



# PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT

## 1. Project Information

District 3	County ED	Route 50	PM 20.0/26.0	EA 03-4E620K
Project Title: <i>Brief descriptive phrase, e.g., CAPM, Curve Re-alignment, Passing Lane, etc.</i> US 50 Camino Corridor				
Project Manager Clark Peri			Phone # 9162740538	
Project Engineer CH2MHILL			Phone # 9169200300	
Environmental Office Chief/Manager Lupe Jimenez			Phone # 9162740557	
PEAR Preparer LSA Associates, Inc.			Phone # 9166304600	

## 2. Project Description

### Purpose and Need

*Write a concise statement of the project purpose and need. It should be consistent with the purpose and need statement in the PSR.*

US 50 is a significant transportation corridor that both California and Nevada rely on heavily for commerce, tourism, and recreational and emergency access. There are a series of at-grade intersections on US 50 between the Smith Flat Interchange (Exit 49B) and the Cedar Grove Interchange (Exit 54). Camino residents use these intersections to access US 50 for local and regional trips to the Camino area, Placerville and beyond. Interregional travelers also use this segment of US 50 for trips between the San Francisco Bay Area/Sacramento and the Lake Tahoe region. These interregional trips include both recreation and goods movement, so there are high volumes of drivers and trucks unfamiliar with the area (six to seven percent).

Accident rates on US 50 in the Camino area are higher than the state average. These safety issues can be attributed to uncontrolled left turn movements and the speed differential between the local Camino traffic and the interregional travelers on US 50. Because of these conditions, there is a need to improve safety for local and interregional travelers along the Camino Corridor. The purpose of this project is to modify the facility to improve travel safety on US 50 in the Camino area. Also important is the need to provide local and regional access to and from the north and south sides of US 50 while providing safe east-west access on and off US 50. The overall goal is to improve safety and enhance travel connectivity between Camino and Placerville.

### Description of work

*Write a brief summary of the proposed work that will be done. Include work required that is incidental to the project, such as: access roads, utility relocation, de-watering, etc*

The proposed project will construct a concrete median barrier along US 50. The median barrier will be built to control access on US 50, increasing safety along the highway. Alternatives C1

and C2 will also construct a undercrossing that will provide access to side streets otherwise restricted by placement of the barrier.

### **Alternatives**

*Identify all project alternatives (including no-build). If alternatives are no longer being considered, state why. Do not select or identify a preferred alternative. Describe each alternative still under consideration.*

*The No-Build Alternative would retain the roadway in its current condition (regular maintenance would continue). Uncontrolled left turns and other safety issues would continue.*

*Alternative "C1" would consist of safety improvements including the widening of US 50 for the installation of a concrete median barrier from Still Meadows Road (PM 22.0) to approximately 700 feet west of Upper Carson Road (PM 24.0). A partial median access opening (westbound, left turn only) at Still Meadows Road will be maintained. US 50 will maintain acceleration and deceleration lanes at Still Meadows Road, Camino Heights Drive, Lower Carson Road, and Upper Carson Road. Outside shoulders will be widened 8 to 12-feet. Eastbound traffic may access Upper Carson Road from the Pondorado Road exit via a new undercrossing.*

*Alternative "C2" would be identical to Alternative "C1" except that it would extend the concrete median barrier section further east along US 50, to close the access opening at Upper Carson Road and connect the existing concrete barrier, approximately 100 feet east of Upper Carson Road. Westbound right in/right out access will be maintained at Upper Carson Road. Eastbound traffic may access Upper Carson Road from the Pondorado Road exit via a new undercrossing*

*Alternatives A and B were removed from consideration by the Project Development Team. The traffic analysis found that the a.m. and p.m. peak volumes were not high enough to make Alternative A feasible and geometrics found that Alternative B was infeasible.*

### 3. Anticipated Environmental Approval

Check the anticipated environmental determination or document for the proposed project in the table below.

CEQA		NEPA	
<b>Environmental Determination</b>			
Statutory Exemption	<input type="checkbox"/>		
Categorical Exemption	<input type="checkbox"/>	Categorical Exclusion	<input type="checkbox"/>
<b>Environmental Document</b>			
Initial Study or Focused Initial Study with Negative Declaration or Mitigated ND	<input checked="" type="checkbox"/>	Environmental Assessment with Finding of No Significant Impact	<input checked="" type="checkbox"/>
Environmental Impact Report	<input type="checkbox"/>	Environmental Impact Statement	<input type="checkbox"/>
CEQA Lead Agency (if determined):		Caltrans	
Estimated length of time (months) to obtain environmental approval:		12	
Estimated person hours to complete identified tasks:		1600	

### 4. Special Environmental Considerations

For each viable alternative, summarize below any special processes such as NEPA/404, seasonal constraints, Section 7, Section 4(f) that may affect project delivery and require unusual, exceptional, or extended environmental processes.

Alternatives C1 and C2 would likely require a 401 Water Quality Certification, 404 permit, and 1602 Agreement. Additionally Section 7 consultation may be required if federally listed species occur on the project site and will be impacted by the project. No other circumstances requiring unusual or extended processes are expected.

### 5. Anticipated Environmental Commitments

For each viable alternative, prepare briefly summarize the anticipated environmental commitments by impacted resource. If commitments have been made, include a copy of the ECR. For standard PSRs, include a cost estimate for each environmental commitment. Include the total cost of all environmental commitment costs in Item 8. PSR Summary Statement below. Reference PEAR Environmental Commitments Cost Estimate.

For Alternative C1 and C2, habitat loss for oak tree removal, impacts to jurisdictional waters, and special status species mitigation are anticipated. An estimated \$10,000 is budgeted for biological resource issues (i.e., habitat loss for oak tree removal, El Dorado County's oak tree mitigation program, jurisdictional waters, and special status species mitigation tasks).

A total of \$25,000 is budgeted for noise attenuation improvements due to potential noise impacts to sensitive receptors caused by construction of the proposed project.

Sensitive cultural and paleontological resources are anticipated to be impacted by the proposed project. The following cultural and paleontological commitments are described below:

Historic Property Survey Report: \$2,000  
 Archaeological Survey Report: \$12,000  
 Historical Resources Evaluation Report: \$10,000-\$20,000

- Extended Phase 1 (XPI) testing program and report: \$50,000
- Archaeological Evaluation Proposal and Report: \$50,000
- Finding of Effect: \$10,000
- Memorandum of Agreement: \$20,000
- Historic Property Treatment Plan: \$30,000

The project alignment may be sensitive for paleontological resources. A paleontological resource study may be necessary and would cost an estimated \$12,500-\$15,000.

Right-of-way impacts from the proposed project are expected. For Alternatives C1 and C2 an estimated \$2,552,000 is budgeted for impacts associated with right-of-way acquisition.

Permitting for all alternatives is estimated at approximately \$15,000.

## **6. Permits and Approvals**

*Include timelines for acquiring permits or agreements. Reference PEAR Environmental Commitments Cost Estimate.*

If the project will create impacts to jurisdictional waters, a nationwide permit (Section 404/Corps of Engineers) will likely be required. Impacts to waters of the U.S. will also trigger a Section 401 Water Quality Certification from the Regional Water Quality Control Board (RWQCB). Impacts to streambeds and/or riparian areas would likely require a Section 1602 Streambed Alteration Agreement from the California Department of Fish and Game (CDFG). These permits/agreements may take an estimated 3-4 months for completion after approval of environmental reviews.

## **7. Level of Effort: Risks and Assumptions**

*See Section 5.2 PEAR Handbook regarding important considerations that can affect the level of effort and resources needed not only for the environmental document but also for the PEAR scoping document.*

Assumptions:

- Scope as defined in current build alternatives.
- New right-of-way acquisition will be required for the proposed project.
- Local, regional, state or federal funding may be available to fund the improvements.
- Biological Resources:
  - Additional focused surveys will be required to determine if federally listed plant and wildlife species occur on the project site (no State listed species are expected to occur on the site).
  - Habitat for federally listed valley elderberry longhorn beetle (VELB) may occur on the project site. Additional surveys will be required to determine the presence/absence of this species.
  - Wetlands and/or other jurisdictional waters may occur on the project site.
  - Mitigation may be required for loss of trees that are impacted by the project.
- Cultural Resources:
  - Archaeological Survey Report (ASR), Historical Property Survey Report (HPSR), Historical Resources Evaluation Report (HRER) will be completed. If no resources are determined eligible, this portion of the Section 106 process will require at least six months to complete.
  - Native American consulting parties do not object to methods/findings.
- No hazardous waste issues anticipated.
- No cumulative impacts associated with traffic congestion.
- No visual impacts anticipated.
- No air quality impacts due to carbon dioxide.
- With mitigation, no noise impacts due to exceedance of noise standards.

Risks:

-Moderate Probability/High Impact: Design plans change to include activities not currently identified in the request would increase project costs and schedule delay for cultural resources (up to 1 year).

-Moderate Probability/High Impact: Impacts to federally listed species and/or wetlands/jurisdictional waters may increase mitigation costs and the proposed schedule.

-Low Probability/High Impact: If resources are determined eligible, a Finding of Effect (FOE) will be required. If impacts are adverse, a Memorandum of Agreement (MOA) and Historic Property Treatment Plan (HPTP) will address mitigation requirements. As a result of multi-agency participation, this portion of the Section 106 process can take an additional six months. If the Federal Highway Administration (FHWA)/State Historic Preservation Office (SHPO) disagrees with cultural resources effects finding and require extended MOA consultation, then increased project costs and schedule delay (up to 6 months) may occur.

-Low Probability/High Impact: If unforeseen issues of hazardous waste, visual, air quality, or cumulative impacts due to traffic are encountered, then increased project costs, schedule delay (up to 6 months) may occur.

-Low Probability/Moderate Impact: Formal Section 7 consultation with U.S. Fish and Wildlife Service (USFWS) will be required if federally listed species occur on the project site and will be impacted by the project. If Section 7 consultation with USFWS is necessary, the process may take up to 135 days or longer.

-Moderate Probability/Moderate Impact: Significant public controversy necessitating a public meeting could add 2-4 months to schedule.

## **8. PEAR Technical Summaries**

*Use brief paragraphs focused on topics that will need environmental review. Indicate the absence of issues to document that they were considered. Refer to the Environmental Studies Checklist when preparing the following summaries. Make a separate statement for each viable alternative. See the PEAR Handbook Exhibit 3 for examples. These paragraphs should be based upon the technical summary provided by each specialist to the generalist who is writing the PEAR.*

- 8.1 Land Use: None of the proposed alternatives will affect land uses. The project will add a center median to US 50 between Still Meadows and Upper Carson Road. No change in land uses are proposed.
- 8.2 Growth: None of the proposed alternatives will encourage growth. The project is proposed to address safety and access issues on US 50 between Still Meadows and Upper Carson Road.
- 8.3 Farmlands/Timberlands: No Farmlands or Timberlands are present within or adjacent to the project area.
- 8.4 Community Impacts: Alternatives C1 and C2 will include relocation of approximately 5 single family homes.
- 8.5 Visual/Aesthetics: US 50 is an existing roadway in El Dorado County. The roadway improvements are not expected to significantly impact visual resources although some new ramps and grade-separated structures may be introduced into the current viewshed. A Visual Impact Assessment will be completed for the project (See Schedule and Cost Estimate for timeline and budget related to this study).
- 8.6 Cultural Resources: If the project is federally funded or permitted, or involves Caltrans right-of-way, cultural resource studies would be needed to address requirements of Section 106 of the National Historic Preservation Act, in accordance with the Programmatic Agreement among the Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and California Department of Transportation regarding Compliance with Section 106 of the National Historic Preservation Act, as it Pertains to the Administration of the Federal-Aid Highway Program in California (Caltrans 2004). A Historic Property Survey Report (HPSR) would be prepared as the cover document for an Archaeological Survey Report (ASR) and a Historical Resources Evaluation Report (HRER). Cultural resources in the Area of Potential Effects, including any archaeological resources identified in the ASR, would require evaluation for eligibility for the National Register. Evaluations of historical archaeological resources and built environment resources would be presented in the HRER. Prior to evaluations of prehistoric archaeological resources an Extended Phase I (XPI) testing program would be conducted to establish presence/absence and boundary definition of archaeological resources. Results of these investigations would be presented in an XPI report. Evaluations of prehistoric archaeological resources would be included in an Archaeological Evaluation Report (AER). If no cultural resources are determined eligible for the National Register, the project's Section 106 responsibilities would be fulfilled. This portion of the Section 106 process may take up to six months to complete. If any of the resources are determined eligible for the National Register, a Finding of Effect (FOE)

would be prepared to document the project's potential effects on the resource(s). If it is determined that the project would have an adverse effect on the resource(s), a Memorandum of Agreement (MOA) and Historic Property Treatment Plan (HPTP) would be prepared to document mitigation measures agreed upon by El Dorado County, Caltrans, the Federal Highway Administration, and the State Historic Preservation Officer. Consulting Native American parties would also be invited to concur on the MOA. This portion of Section 106 process can take an additional six months to complete.

- 8.7 Hydrology and Floodplain: The project area is located in Zone X on FEMA flood mapping, meaning that this area is determined to be outside 0.2% annual chance floodplain. As this is outside the 500 year floodplain no impacts to hydrology and floodplains are anticipated.
- 8.8 Water Quality and Storm Water Runoff: Impacts to water quality and storm water runoff are likely for the project considering the presence of roadside and irrigation ditches in the project area. These impacts will need to be evaluated in a Water Quality and Stormwater Runoff Analysis Report.
- 8.9 Geology, Soils, Seismic and Topography: A Geotechnical Report will be required for the project to determine if project area soils are capable of supporting proposed improvements and to evaluate seismic event potentials. No significant impacts are expected to occur.
- 8.10 Paleontology: Geologically, the study area is underlain by the Pliocene Mehrten Formation and Miocene Valley Springs Formation. These sedimentary and volcanoclastic formations may contain Blancan, Hemphillian, Clarendonian, Barstovian, and Hemingfordian plant, invertebrate, and vertebrate fossils. Based on the sensitivity of these formations a Paleontological Resource Report will be prepared to discuss these resources and provide appropriate mitigation if resources are discovered during the project construction.
- 8.11 Hazardous Waste/Materials: An Initial Site Assessment will be completed for the project to determine the presence of hazardous materials and provide appropriate mitigation if hazardous materials are discovered.
- 8.12 Air Quality: Air quality in the project area is expected to improve with project implementation. Reduction of left-turn traffic delays will occur with placement of a center median. Operational and temporary construction-related air quality impacts will be evaluated in an Air Quality Analysis Memorandum.
- 8.13 Noise and Vibration: Potential noise issues are expected from construction of the proposed project. A technical Noise Analysis Report will be required for the project to evaluate noise impacts to sensitive receptors in the project area and appropriate mitigation to reduce significant impacts.
- 8.14 Energy and Climate Change: The proposed project is not expected to impact energy resources. Air quality in the project area is expected to improve due to reduced left-turn delays, therefore, greenhouse gas emissions are also expected to decrease when compared to existing conditions. An evaluation of the greenhouse gas emissions will be needed in the environmental document to demonstrate the reduction.
- 8.15 Biological Environment: A reconnaissance-level field review was conducted in order to identify potential biological constraints associated with the proposed project. Methods include a biological records search, review of aerial photos, and a field survey on foot and via

windshield to evaluate the current habitat conditions and plant and animal species that may occur in the project area.

The majority of the habitat associated with the project is currently disturbed or developed. However, the project lies within the known range of several special status plant and animal species and supports marginally suitable habitats that could be used by these species.

#### Plants

Segments of the US 50 corridor that are located within the limits of the project and proposed alternatives contain habitat that may support California Native Plant Society (CNPS) rare plant species. Focused plant surveys should be conducted to determine if these species occur within the project limits.

Elderberry shrubs (*Sambucus mexicana*) may be present within the project right-of-way and alternative limits. These shrubs may provide suitable habitat for valley elderberry longhorn beetle (VELB). The VELB is a federally threatened species under the jurisdiction of the USFWS. If elderberry shrubs occur within the project limits, and if the project will impact VELB habitat, a Biological Assessment maybe required to address project impacts to VELB and consultation with the USFWS would be required.

Native trees may exist within the right-of-way of the project limits. Mitigation may be required if these trees will be removed as a result of the project. The trees and shrubs that exist on the site may provide suitable nesting sites for raptors and other nesting birds that are protected under the Migratory Bird Treaty Act. Potential wetland areas that are heavily dominated by Himalayan blackberry and other dense vegetation may provide suitable nesting habitat for a variety of bird species. These trees may also provide suitable roosting sites for several species of bats. Surveys for nesting birds and roosting bats should be conducted prior to the removal of any vegetation or trees.

#### Wildlife

Results of the biological records search revealed that suitable habitat occurs within the project vicinity that may support listed fish species. Within the project limits, however, the El Dorado Irrigation Ditch and various roadside runoff ditch features do not provide suitable habitat for fish. The results of the field survey revealed that the irrigation ditch is not currently in use (no water was observed in the ditch). The irrigation ditch was also overgrown with blackberries and other dense vegetation, providing additional evidence of lack of active maintenance, and use of the ditch to convey water. No impacts to anadromous or other fish species are anticipated.

Results of the biological records search also revealed that suitable habitat occurs within the project vicinity that may support California red-legged frog (CRLF). CRLF is a federally listed species that requires permanent or semi-permanent water features for breeding. No suitable habitat for CRLF was observed within the project limits during the field survey. No impacts to CRLF are anticipated.

If focused surveys for listed species reveal that the project is not likely to affect any federally listed species, then a Natural Environment Study (Minimal Impacts) should be prepared to evaluate potential impacts to other biological resources.

#### Invasive Pest Plant Species



Executive Order 13112 requires that any federal action may not cause or promote the spread or introduction of invasive species. This project will use machinery capable of transporting invasive plant species on and off the project site. To avoid spreading invasive plant species, all earthmoving and seeding equipment will be thoroughly washed before entering the site and prior to leaving. No additional permits or agency coordination is required.

#### Jurisdictional Wetlands and Waters of the U.S.

Based on reconnaissance level field review, water features potentially subject to U.S. Army Corps of Engineers (Corps) jurisdiction include an El Dorado County Irrigation Ditch and various roadside ditches. Areas appearing to support wetlands occur in the eastern portion of the review area north of Carson Road associated with the Alternative C alignment.

The topography north of Carson Road (Alternative C area) slopes southeast and is composed of overflow potential wetlands associated with Blakeley Reservoir directly to the northwest. Potential wetland areas are dominated by willows (*Salix* sp.). Cut/fill along the north shoulder of Carson Road to accommodate the Alternative C design will likely encroach into areas potentially subject to Corps jurisdiction.

A jurisdictional delineation will be necessary to identify potential wetlands or other jurisdictional waters, followed by an impact assessment.

- 8.16 Cumulative Impacts: This project is not anticipated to have any project related cumulative impacts.
- 8.17 Context Sensitive Solutions: The design of this project is based on traffic forecast and safety considerations therefore, it is not considered to be a Context Sensitive Solution project.

## 9. Summary Statement for PSR or PSR-PDS

*For each practicable alternative write a brief summary of key environmental issues, studies required, permits, and anticipated environmental commitments for permanent impacts. Include a time and potential constraints or special considerations, such as construction windows, biological monitoring, Native American monitoring, acquisition of Permits to Enter, etc. For a standard PSR, include cost estimates for environmental permits and commitments. This statement will go directly into the PSR or PSR-PDS. All build alternatives for the proposed project are expected to have impacts associated with: noise, biological resources, cultural resources, and water quality. All alternatives are also expected to require a 401 Water Quality Certification, 404 permit, and 1602 permit. Alternatives C1 and C2 will have impacts associated with relocations.*

## 10. Disclaimer

This Preliminary Environmental Analysis Report (PEAR) provides information to support programming of the proposed project. It is not an environmental determination or document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in the Project Study Report (PSR). The estimates and conclusions in the PEAR are approximate and are based on cursory analyses of probable effects. A reevaluation of the PEAR will be needed for changes in project scope or alternatives, or in environmental laws, regulations, or guidelines.

## 11. List of Preparers

Cultural Resources specialist Kathleen Kubal	Date: 12/18/2008
Biologist Mike Trueblood, Laura Belt	Date: 1/9/2009
Community Impacts specialist Edward Heming	Date: 5/11/2009
Noise and Vibration specialist Phil Ault	Date: 5/11/2009
Air Quality specialist Jason Paukovitz	Date: 5/11/2009
Paleontology specialist/liaison Kathleen Kubal	Date: 12/18/2008
Water Quality specialist Edward Heming	Date: 5/11/2009
Hydrology and Floodplain specialist Edward Heming	Date: 5/11/2009
Hazardous Waste/Materials specialist Edward Heming	Date: 5/11/2009
Visual/Aesthetics specialist Edward Heming	Date: 5/11/2009
Energy and Climate Change specialist Jason Paukovitz	Date: 5/11/2009
Other:	Date:

PEAR Preparer (Name and Title) Edward Heming, Senior Env	Date: 2009
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**12. Review and Approval**

I confirm that environmental cost, scope, and schedule have been satisfactorily completed and that the PEAR meets all Caltrans requirements. Also, if the project is scoped as an EA or EIS, I verify that the HQ DEA Coordinator has concurred in the Class of Action.

\_\_\_\_\_  
Environmental Branch Chief

Date: \_\_\_\_\_

\_\_\_\_\_  
Project Manager

Date: \_\_\_\_\_

**REQUIRED ATTACHMENTS:**

- Attachment A: PEAR Environmental Studies Checklist**
- Attachment B: Estimated Resources by WBS Code**
- Attachment C: Schedule (Gantt Chart)**
- Attachment D: PEAR Environmental Commitments Cost Estimate (Standard PSR)**

## Attachment A: PEAR Environmental Studies Checklist

Rev. 11/08

<b>Environmental Studies for PA&amp;ED Checklist</b>							
	Not anticipated	Memo to file	Report required	Risk*			Comments
				L	M	H	
Land Use	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L			
Growth	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L			
Farmlands/Timberlands	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L			
Community Impacts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L			
Community Character and Cohesion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L			
Relocations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L			
Environmental Justice	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	M			Alts C1 & C2
Utilities/Emergency Services	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L			
Visual/Aesthetics	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L			
Cultural Resources:				L			
Archaeological Survey Report	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
Historic Resources Evaluation Report	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
Historic Property Survey Report	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
Historic Resource Compliance Report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
Section 106 / PRC 5024 & 5024.5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
Native American Coordination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
Finding of Effect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
Data Recovery Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
Memorandum of Agreement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
Other: XP1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
Hydrology and Floodplain	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
Water Quality and Stormwater Runoff	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
Geology, Soils, Seismic and Topography	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
Paleontology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
PER	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
PMP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
Hazardous Waste/Materials:				L			
ISA (Additional)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
PSI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
Other:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
Air Quality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L			
Noise and Vibration	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
Energy and Climate Change	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L			
Biological Environment				L			
Natural Environment Study	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			
Section 7:				L			
Formal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
Informal	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			If VELB
No effect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
Section 10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
USFWS Consultation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			BA
NMFS Consultation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L			
Species of Concern (CNPS, USFS, BLM, S, F)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L			

## Environmental Studies for PA&ED Checklist

	Not anticipated	Memo to file	Report required	Risk*			Comments
				L	M	H	
Wetlands & Other Waters/Delineation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>L</u>			
404(b)(1) Alternatives Analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
Invasive Species	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
Wild & Scenic River Consistency	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
Coastal Management Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
HMMP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
DFG Consistency Determination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
2081	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
Other:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
Cumulative Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
Context Sensitive Solutions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
Section 4(f) Evaluation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
<b>Permits:</b>							
401 Certification Coordination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>L</u>			
404 Permit Coordination, IP, NWP, or LOP	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>L</u>			
1602 Agreement Coordination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>L</u>			
Local Coastal Development Permit Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
State Coastal Development Permit Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
NPDES Coordination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
US Coast Guard (Section 10)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
TRPA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			
BCDC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>L</u>			

**ATTACHMENT B - Resources by WBS Code**

<b>EA:</b>		<b>NOTE: This WBS resource estimating tool is for Generalist use ONLY when a district-specific WBS estimating tool is not available. Check with your supervisor before using this form.</b>											WBS current 11/2008		
<b>Description:</b>		<b>US 50-Stateline</b>													
<b>Assigned Unit</b>		<b>Senior</b>	<b>Coord</b>	<b>Biology</b>	<b>Cultural</b>	<b>Haz Waste</b>	<b>Socio-Economic</b>	<b>Storm Water</b>	<b>Noise/Air</b>	<b>Paleo</b>	<b>Sup Svcs</b>	<b>Total</b>	<b>Begin Date</b>	<b>End Date</b>	<b>Duration (days)</b>
<b>Project Management</b>															
100.05.05 – Project Init. & Png.		8										8			0
100.05.10 – PID Cmpnt Exec. & Ctrl.		5										5			0
100.05.15 – PID Cmpnt Closeout		5										5			0
100.10.05 – PA&ED Cmpnt Init. & Png.		5										5			0
100.10.10 – PA&ED Cmpnt Exec. & Ctrl.		5										5			0
100.10.15 – PA&ED Cmpnt Closeout		5										5			0
100.10.20 – Project Shelving (PA&ED)		5										5			0
100.10.25 – Project Unshelving (PA&ED)		5										5			0
100.10.30 – Updd Admtv Rec during PA&ED												0			0
100.10.35 – Execd Coop Agre for PA&ED Process												0			0
100.15.05 – PS&E Cmpnt Init. & Png.		8										8			0
100.15.10 – PS&E Cmpnt Exec. & Ctrl.												0			0
100.15.15 – PS&E Cmpnt Closeout												0			0
100.15.20 – Project Shelving (PS&E)		5										5			0
100.15.25 – Project Unshelving (PS&E)		5										5			0
100.15.30 – Updd Admtv Rec during PS&E												0			0
100.15.35 – Execd Coop Agre for PS&E Process			5									5			0
100.20.05 – Const. Cmpnt Init. & Png.			8									8			0
100.20.10 – Const. Cmpnt Exec. & Ctrl.			8									8			0
100.20.15 – Const. Cmpnt Closeout			8									8			0
100.20.20 – Project Shelving (Construction)												0			0
100.20.25 – Project Unshelving (Construction)												0			0
100.20.30 – Updd Admtv Rec during Const			5									5			0
100.20.35 – Execd Coop Agre for Const Process			5									5			0
100.25.05 – R/W Cmpnt Init. & Png.			8									8			0
100.25.10 – R/W Cmpnt Exec. & Ctrl.			8									8			0
100.25.15 – R/W Cmpnt Closeout			8									8			0
100.25.20 – Project Shelving (Right of Way)												0			0
100.25.25 – Project Unshelving (Right of Way)												0			0
100.25.30 – Updd Admtv Rec during R/W			5									5			0
100.25.35 – Execd Coop Agre for R/W Process			5									5			0
100.25.50 – Execd Coop Agre for R/W Rlnmnt			5									5			0
<b>Total Project Management</b>		<b>50</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>139</b>			
<b>Perform Preliminary Engineering Studies and Prepare Draft Project Report</b>															
160.05.05 – Approvd PID Review		5										5			0
160.05.10 – Geotechnical Information Review		5										5			0
160.05.20 – Traffic Data & Forecasts Review									4			4			0
160.05.30 – Project Scope Review		4		4	3	2	2	2	3	3		23			0
160.10.20 – Value Analysis												0			0
160.10.25 – Hydraulics/Hydro Study								2				2			0
160.10.30 – Hwy Planting Des Concepts		5										5			0
160.15.20 – Draft Project Report		8										8			0
160.15.25 – Draft PR Circ, Rev & App		8										8			0
160.30.05 – Maps for ESR		5										5			0
160.30.10 – Surveys/Maps for Env Studies		5										5			0
160.30.15 – Prop Access Rights for Env/Eng Studies			5									5			0
160.40 – NEPA Delegation		0										0			0
<b>Total Prelim Eng Studies</b>		<b>45</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>7</b>	<b>3</b>	<b>0</b>	<b>75</b>			
<b>Assigned Unit</b>		<b>Senior</b>	<b>Coord</b>	<b>Biology</b>	<b>Cultural</b>	<b>Haz Waste</b>	<b>Socio-Economic</b>	<b>Storm Water</b>	<b>Noise/Air</b>	<b>Paleo</b>	<b>Sup Svcs</b>	<b>Total</b>	<b>Begin Date</b>	<b>End Date</b>	<b>Duration (days)</b>
<b>Perform Environmental Studies and Prepare Draft Environmental Document</b>															
165.05.05 – Project Information Review		10										10			0

165.05.10 – Pub & Agency Scoping		10									10			0
165.05.15 – Alts for Further Study	10										10			0
165.10.15 – CIA, Land Use & Growth							0				0			0
165.10.25 – Noise Study	15							50			65			0
165.10.30 – Air Quality Study	5							30			35			0
165.10.35 – Water Quality Studies	10						40				50			0
165.10.40 – Energy/Climate Change Studies	0							5			5			0
165.10.45 – Sum Geotech Report	15										15			0
165.10.50 – Preliminary Site Investigation HW					35						35			0
165.10.55 – Draft R/W Relocation Impact Eval	10						0				10			0
165.10.65 – Paleontology Study	10								45		55			0
165.10.70 – Wild & Scenic River Coordination											0			0
165.10.75 – Envir Commitments Record	25										25			0
165.10.99 - Other Env Studies	10										10			0
165.15.05 – Biological Assessment			25								25			0
165.15.10 – Wetlands Study	10		20								30			0
165.15.15 – Resource Agency Coord	10		10								20			0
165.15.20 – NES Report	8		40								48			0
165.15.99 – Other Biological Studies	8		15								23			0
165.20.05 – Archaeology Survey				20							20			0
165.20.05.05 – APE Map				8							8			0
165.20.05.10 – NA Consultation				8							8			0
165.20.05.15 – Records & Literature Search				12							12			0
165.20.05.20 – Field Survey				8							8			0
165.20.05.25 – ASR	10			25							35			0
165.20.05.99 – Other Archy Survey Products											0			0
165.20.10 – Extended Phase I Archy Studies											0			0
165.20.10.05 – Native American Consultation				10							10			0
165.20.10.10 – Extended Phase I Proposal											0			0
165.20.10.15 – XP1 Field Investigation											0			0
165.20.10.20 – XP1 Materials Analysis											0			0
165.20.10.25 – Extended Phase I Report											0			0
165.20.10.99 – Other Phase I Archy Products											0			0
165.20.15 – Phase II Archy Studies											0			0
165.20.15.05 – NA Consultation											0			0
165.20.15.10 – Phase II Proposal											0			0
165.20.15.15 – Field Investigation											0			0
165.20.15.20 – Materials Analysis											0			0
165.20.15.25 – Phase II Report											0			0
165.20.15.99 – Other Phase II Archy Products											0			0
165.20.20 – Hist & Architectural Studies											0			0
165.20.20.05 – Prelim APE/Study Area Maps - Archl				25							25			0
165.20.20.10 – Hist Res Eval Rpt - Archy				10							10			0
165.20.20.15 – Hist Res Eval Rpt - Archl				10							10			0
165.20.20.20 – Bridge Evaluation											0			0
165.20.20.99 – Other H & A Study Products											0			0
165.20.25 – Cultural Res Comp Docs											0			0
165.20.25.05 – Final APE Maps				10							10			0
165.20.25.10 – PRC 5024.5 Consult											0			0
165.20.25.15 – HPSR/HRCR	10			50							60			0
165.20.25.20 – Finding of Effect											0			0
165.20.25.25 – Archy Data Recovery Pln											0			0
165.20.25.30 – MOA											0			0
165.20.25.99 – Other Cult Res Comp Products											0			0
165.25.05 – Draft ED Analysis	20	30									50			0
165.25.10 – 4(f) Evaluation											0			0
165.25.15 – CE/CE Determination	0										0			0
165.25.20 – Env Quality Control & Other Reviews	15										15			0
165.25.25 – Approval to Circ Resolution	15										15			0
<b>Assigned Unit</b>	<b>Senior</b>	<b>Coord</b>	<b>Biology</b>	<b>Cultural</b>	<b>Haz Waste</b>	<b>Socio-Economic</b>	<b>Storm Water</b>	<b>Noise/Air</b>	<b>Paleo</b>	<b>Sup Svcs</b>	<b>Total</b>	<b>Begin Date</b>	<b>End Date</b>	<b>Duration (days)</b>
165.25.30 – Env Coordination	20										20			0
165.25.99 – Other DED Products	5										5			0

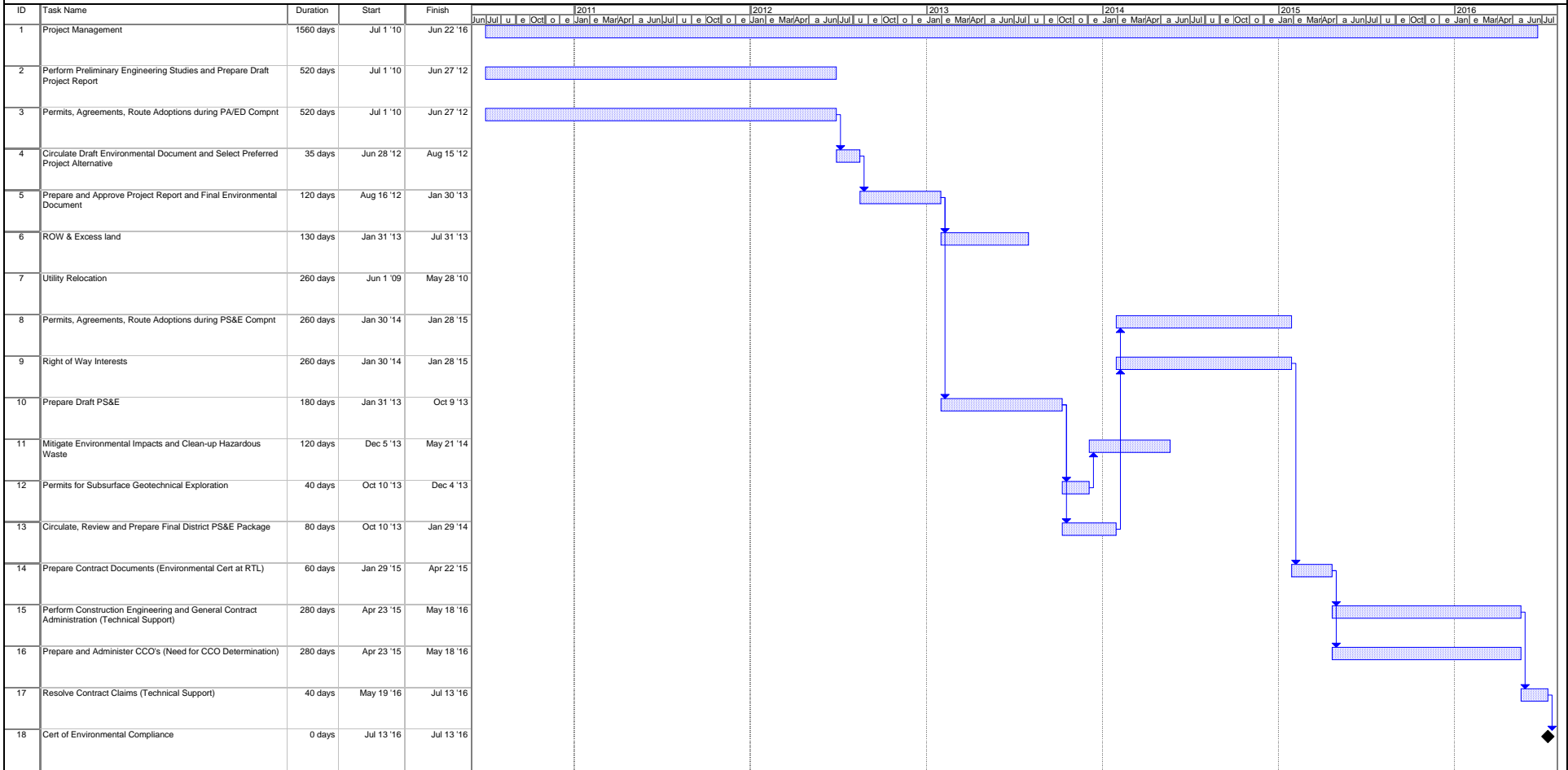
165.30 – NEPA Delegation	20											20			0
Total Env Studies & Prep DED	271	40	110	196	35	0	40	85	45	0	822				
<b>Permits, Agreements, and Route Adoptions during PA&amp;ED Cmpnt</b>															
170.05 - Required Permits (list)												0			0
170.10.05 - US Army Corps 404 Permit			10									10			0
170.10.10 - US Forest Service Permit(s)												0			0
170.10.15 - US Coast Guard Permit												0			0
170.10.20 - DFG 1600 Agreement(s)			10									10			0
170.10.25 - Coastal Zone Development Permit												0			0
170.10.30 - Local Agency Concurrence/Permit												0			0
170.10.40 - Waste Discharge (NPDES) Permit(s)												0			0
170.10.45 - US Fish & Wildlife Service Approval												0			0
170.10.50 - RWQCB 401 Permit			10									10			0
170.10.60 - Updated ECR												0			0
170.10.95 - Other Permits												0			0
170.45 - MOU from TERO Office												0			0
170.55 - NEPA Delegation												0			0
Total Permits, Agreements & Route Adoptions	0	0	30	0	0	0	0	0	0	0	0	30			
<b>Circulate Draft Environmental Document and Select Preferred Project Alternative</b>															
175.05.05 – Master Dist & Invitation Lists		10										10			0
175.05.10 – Notices Pub Hear & DED Avail		10										10			0
175.05.15 – DED Pub & Circulation	20											20			0
175.05.20 – Fed Consistency Det (Coastal)												0			0
175.05.99 – Other DED Circulation Products	15											15			0
175.10.05 – Need for Pub Hearing Determination		10										10			0
175.10.10 – Pub Hearing Logistics		10										10			0
175.10.15 – Displays for Pub Hearing												0			0
175.10.20 – 2nd Notice Pub Hear & Avail	10											10			0
175.10.25 – Map Display & Hearing Plan												0			0
175.10.30 – Display Pub Hear Maps												0			0
175.10.35 – Public Hearing	15											15			0
175.10.40 – Record of Public Hearing												0			0
175.10.99 – Other Pub Hearing Products												0			0
175.15 – Responses to Pub Hear Comments	35											35			0
175.20 – Project Preferred Alternative												0			0
175.25 – NEPA Delegation												0			0
Total DED & Preferred Alt	95	40	0	0	0	0	0	0	0	0	0	135			
<b>Prepare and Approve Project Report and Final Environmental Document</b>															
180.05.10 – Approved Project Rep	8											8			0
180.05.15 – Updated Stormwater Data Report	8											8			0
180.10.05 – Approved FED	10											10			0
180.10.05.05 – Draft FED Review	10											10			0
180.10.05.10 – Revised Draft FED	15											15			0
180.10.05.15 – Section 4(f) Evaluation												0			0
180.10.05.20 – Findings Report												0			0
180.10.05.25 – Statement of Overriding Consid												0			0
180.10.05.30 – CEQA Certification	8											8			0
180.10.05.35 – FHWA and Approval	0											0			0
180.10.05.40 – Section 106 Cons & MOA												0			0
180.10.05.45 – Section 7 Consultation												0			0
180.10.05.50 – Final Section 4(f) Statement												0			0
180.10.05.55 – Floodplain Only PAF												0			0
180.10.05.60 –Wetlands Only PAF												0			0
180.10.05.65 – Sect 404 Permit Compliance	15											15			0
180.10.05.70 – Mitigation Measures	15											15			0
180.10.10 – Public Dist & Resp to Comments	10											10			0
<b>Assigned Unit</b>	<b>Senior</b>	<b>Coord</b>	<b>Biology</b>	<b>Cultural</b>	<b>Haz Waste</b>	<b>Socio-Economic</b>	<b>Storm Water</b>	<b>Noise/Air</b>	<b>Paleo</b>	<b>Sup Svcs</b>	<b>Total</b>	<b>Begin Date</b>	<b>End Date</b>	<b>Duration (days)</b>	
180.10.15 – Final R/W Relo Impact Document	8	15									23				0
180.10.99 – Other FED Products											0				0



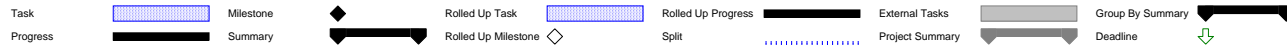
180.15.05 – ROD (NEPA)		10										10			0
180.15.10 – NOD (CEQA)		10										10			0
180.15.20 – Env Commitments Record	15											15			0
180.15.99 – Other Complete ED Products	10											10			0
180.20 – NEPA Delegation												0			0
Total App PR & FED	132	35	0	0	0	0	0	0	0	0	0	167			0
<b>Update Project Info for PS&amp;E</b>															
185.05.05 – Project Concept Review for PS&E												0			0
185.05.10 – Updated Project Info for PS&E dev												0			0
Total Update for PS&E	0	0	0	0	0	0	0	0	0	0	0	0			0
<b>ROW &amp; Excess Land</b>															
195.40.25 – Property Maint & Rehab (non-rental)												0			0
195.40.35 – Transfer of Prop to Clear Status												0			0
195.45.05 – Excess Lands Inventory												0			0
195.45.20 – Prop Disp Units less than \$15 K												0			0
195.45.25 – Prop Disp Units \$15 K - \$500 K		0										0			0
195.45.30 – Prop Disp Units over \$500 K		15										15			0
Total ROW & Excess Land	0	15	0	0	0	0	0	0	0	0	0	15			0
<b>Utility Relocation</b>															
200.15 – Approved Utility Relocation Plan		8										8			0
200.20 – Utility Relocation Package		8										8			0
Total Coordinate Utilities	0	16	0	0	0	0	0	0	0	0	0	16			0
<b>Permits, Agreements, and Route Adoptions during PS&amp;E Cmpnt</b>															
205.10.05 - US Army Corps 404 Permit	8		20									28			0
205.10.10 - US Forest Service Permit(s)												0			0
205.10.15 - US Coast Guard Permit												0			0
205.10.20 - DFG 1600 Agreement	8		20									28			0
205.10.25 - Coastal Development Permit												0			0
205.10.30 - Local Agency Concurrence/Permit												0			0
205.10.40 - Waste Discharge (NPDES) permit												0			0
205.10.45 - US Fish & Wildlife Service Approval												0			0
205.10.50 - RWQCB 401 Permit	8		20									28			0
205.10.60 - Updated ECR												0			0
205.10.95 - Other Permits												0			0
205.20.05 – Draft Fwy Agreement												0			0
205.20.10 – Draft Fwy Agree Review												0			0
205.20.15 – Final Fwy Agree												0			0
205.20.20 – Executed Fwy Agreement												0			0
205.40.10 - New Connections & Route Adopt Sbtl												0			0
205.55 - NEPA Delegation												0			0
Total Permits, Agreements, and Route Adoptions	24	0	60	0	0	0	0	0	0	0	0	84			0
<b>Assigned Unit</b>															
	Senior	Coord	Biology	Cultural	Haz Waste	Socio-Economic	Storm Water	Noise/Air	Paleo	Sup Svcs	Total	Begin Date	End Date	Duration (days)	
<b>Right of Way Interests</b>															
225.55.20 – Right of Way Clearance		20									20				0
Total Right of Way Interests	0	20	0	0	0	0	0	0	0	0	20				0
<b>Prepare Draft PS&amp;E</b>															
230.05.45 – Noise Barrier Plans		10						20			30				0
230.10.05 – Hwy Planting Plans		5									5				0
230.10.15 – Plant List		5									5				0
230.35.10 – Hwy Planting Specs		5									5				0
230.35.35 – Water Pollution Ctrl Specs		10									10				0
230.35.40 – Erosion Control Specs		10									10				0
230.60 – Updated Proj Info for PS&E Package		5									5				0
230.60.05 - Updated Storm Water Data Report		5									5				0
230.60.10 – Other Reviews/Updates Proj Info											0				0
230.90 – NEPA Delegation											0				0

Total Prepare Draft PS&E	0	55	0	0	0	0	0	0	20	0	0	75			
<b>Mitigate Environmental Impacts and Clean-up Hazardous Waste</b>															
235.05.05 – Hist Structures Mitig												0			0
235.05.10 – Archy & Cult Mitigation		10										10			0
235.05.15 – Biological Mitigation		10										10			0
235.05.20 – Env Mitigation R/W work												0			0
235.05.25 – Paleontology Mitigation												0			0
235.05.99 - Other Env Mitigation Products												0			0
235.10.10 – Haz Waste Sites Survey		8										8			0
235.10.15 – Detailed HW Sites Investigation												0			0
235.15 – HW Management Plan												0			0
235.20 – HW PS&E												0			0
235.25 – HW Clean-up												0			0
235.30 – Certification of Sufficiency (HW)												0			0
235.35 – Long Term Mitigation Monitoring												0			0
235.40 – Updated ECR												0			0
235.45 – NEPA Delegation												0			0
Total Mitigation & HW Clean-up	0	28	0	0	0	0	0	0	0	0	0	28			
<b>Permits for Subsurface Geotechnical Exploration</b>															
240.70 – Site Ready for Subsurface Exploration		10										10			0
Total Geotechnical Permit	0	10	0	0	0	0	0	0	0	0	0	10			
<b>Circulate, Review and Prepare Final District PS&amp;E Package</b>															
255.05 – Circ & Rev Draft Dist PS&E												0			0
255.10.25 - Updated Technical Reports												0			0
255.15 – Env Reevaluation												0			0
255.20.05 - Rev Plans for Stds Comp												0			0
255.40 - Res Engs Pending File												0			0
255.45 – NEPA Delegation												0			0
Total PS&E	0	0	0	0	0	0	0	0	0	0	0	0			
<b>Assigned Unit</b>	<b>Senior</b>	<b>Coord</b>	<b>Biology</b>	<b>Cultural</b>	<b>Haz Waste</b>	<b>Socio-Economic</b>	<b>Storm Water</b>	<b>Noise/Air</b>	<b>Paleo</b>	<b>Sup Svcs</b>	<b>Total</b>	<b>Begin Date</b>	<b>End Date</b>	<b>Duration (days)</b>	
<b>Prepare Contract Documents</b>															
260.75 - Env Cert at RTL											0				0
Total Prepare Contract Documents	0	0	0	0	0	0	0	0	0	0	0				
<b>Perform Construction Engineering and General Contract Administration</b>															
270.20.50 – Technical Support											0				0
270.55 – Final Inspect & Accept Rec											0				0
270.70 – Update ECR											0				0
270.75 – Permit Renewal & Extension											0				0
270.80 – Long-Term Mitigation Contract											0				0
Total Const Engineering	0	0	0	0	0	0	0	0	0	0	0				
<b>Prepare and Administer Contract Change Orders</b>															
285.05.05 - Need for CCO Determination											0				0
285.10.15 – Other Func Support											0				0
Total CCOs	0	0	0	0	0	0	0	0	0	0	0				
<b>Resolve Contract Claims</b>															
290.35 – Provide Technical Support											0				0
Total Contract Claims	0	0	0	0	0	0	0	0	0	0	0				
<b>Accept Contract, Prepare Final Construction Estimate &amp; Prepare Final Report</b>															
295.35 – Cert of Env Compliance											0				0
295.40 – Long-Term Mitigation Contract											0				0
Total Final Construction	0	0	0	0	0	0	0	0	0	0	0				
<b>Total Project Hours</b>	<b>617</b>	<b>342</b>	<b>204</b>	<b>199</b>	<b>37</b>	<b>2</b>	<b>44</b>	<b>112</b>	<b>48</b>	<b>0</b>	<b>1616</b>				

ATTACHMENT C  
EDCTC  
Camino Corridor Schedule



Project: PEAR Schedule\_Att C  
Date: Jun 1 '09



## Attachment D: PEAR Environmental Commitments Cost Estimate

Standard PSR Only

(Prepare a separate form for each viable alternative described in the Project Study Report)

### PART 1 PROJECT INFORMATION

*rev. 11/08*

District-County-Route-Post Mile 3-ED-50-20.0/26.0	EA: 03-4E620K
Project Description: The project will construct a median barrier along US-50 and an undercrossing which will provide access to Carson Road	
Form completed by (Name/District Office): LSA Associates, Inc.	
Project Manager: Clark Peri	Phone Number: 916-274-0538
Date: 3/24/09	

### PART 2 PERMITS AND AGREEMENTS

	Permits and Agreements (\$\$)
<input checked="" type="checkbox"/> Fish and Game 1602 Agreement	5000
<input type="checkbox"/> Coastal Development Permit	
<input type="checkbox"/> State Lands Agreement	
<input checked="" type="checkbox"/> Section 401 Water Quality Certification	5000
<input checked="" type="checkbox"/> Section 404 Permit – Nationwide (U.S. Army Corps)	5000
<input type="checkbox"/> Section 404 Permit – Individual (U.S. Army Corps)	
<input type="checkbox"/> Section 10 Navigable Waters Permit (U.S. Army Corps)	
<input type="checkbox"/> Section 9 Permit (U.S. Coast Guard)	
<input type="checkbox"/> Other:	
Total (enter zeros if no cost)	15000

**PART 3. ENVIRONMENTAL COMMITMENTS FOR PERMANENT IMPACTS**

To complete the following information:

- Report costs in \$1,000s.
- Include all costs to complete the commitment:
  - Capital outlay and staff support. Refer to Estimated Resources by WBS Code. For example, if you estimated 80 hours for biological monitoring (WBS 235.35 Long Term Mitigation Monitoring), convert those hours to a dollar amount for this entry. For current conversion rates from PY to dollars, see the Project Manager.
  - Cost of right of way or easements.
  - If compensatory mitigation is anticipated (for wetlands, for example), insert a range for purchasing credits in a mitigation bank.
  - Long-term monitoring and reporting
  - Any follow-up maintenance
  - Use current costs; the Project Manager will add an appropriate escalation factor.
  - This is an estimating tool, so a range is not only acceptable, but advisable.

<b>Environmental Commitments Alternative C1</b>		
	Estimated Cost in \$1,000's	Notes
Noise abatement or mitigation	25	
Special landscaping		
Archaeological resources	12	
Biological resources	10	
Historical resources	180	
Scenic resources		
Wetland/riparian resources		
Res./bus. relocations	2552	
Other: Paleo	15	
Total (enter zeros if no cost)	2794	

## Attachment D: PEAR Environmental Commitments Cost Estimate

Standard PSR Only

(Prepare a separate form for each viable alternative described in the Project Study Report)

### PART 1 PROJECT INFORMATION

*rev. 11/08*

District-County-Route-Post Mile 3-ED-50-20.0/26.0	EA: 03-4E620K
Project Description: The project will construct a median barrier along US-50 and an undercrossing which will provide access to Carson Road	
Form completed by (Name/District Office): LSA Associates, Inc.	
Project Manager: Clark Peri	Phone Number: 916-274-0538
Date: 3/24/09	

### PART 2 PERMITS AND AGREEMENTS

	Permits and Agreements (\$\$)
<input checked="" type="checkbox"/> Fish and Game 1602 Agreement	5000
<input type="checkbox"/> Coastal Development Permit	
<input type="checkbox"/> State Lands Agreement	
<input checked="" type="checkbox"/> Section 401 Water Quality Certification	5000
<input checked="" type="checkbox"/> Section 404 Permit – Nationwide (U.S. Army Corps)	5000
<input type="checkbox"/> Section 404 Permit – Individual (U.S. Army Corps)	
<input type="checkbox"/> Section 10 Navigable Waters Permit (U.S. Army Corps)	
<input type="checkbox"/> Section 9 Permit (U.S. Coast Guard)	
<input type="checkbox"/> Other:	
Total (enter zeros if no cost)	15000

**PART 3. ENVIRONMENTAL COMMITMENTS FOR PERMANENT IMPACTS**

To complete the following information:

- Report costs in \$1,000s.
- Include all costs to complete the commitment:
  - Capital outlay and staff support. Refer to Estimated Resources by WBS Code. For example, if you estimated 80 hours for biological monitoring (WBS 235.35 Long Term Mitigation Monitoring), convert those hours to a dollar amount for this entry. For current conversion rates from PY to dollars, see the Project Manager.
  - Cost of right of way or easements.
  - If compensatory mitigation is anticipated (for wetlands, for example), insert a range for purchasing credits in a mitigation bank.
  - Long-term monitoring and reporting
  - Any follow-up maintenance
  - Use current costs; the Project Manager will add an appropriate escalation factor.
  - This is an estimating tool, so a range is not only acceptable, but advisable.

<b>Environmental Commitments Alternative C2</b>		
	Estimated Cost in \$1,000's	Notes
Noise abatement or mitigation	25	
Special landscaping		
Archaeological resources	12	
Biological resources	10	
Historical resources	180	
Scenic resources		
Wetland/riparian resources		
Res./bus. relocations	2552	
Other: Paleo	15	
<b>Total (enter zeros if no cost)</b>	<b>2794</b>	