PROJECT STUDY REPORT

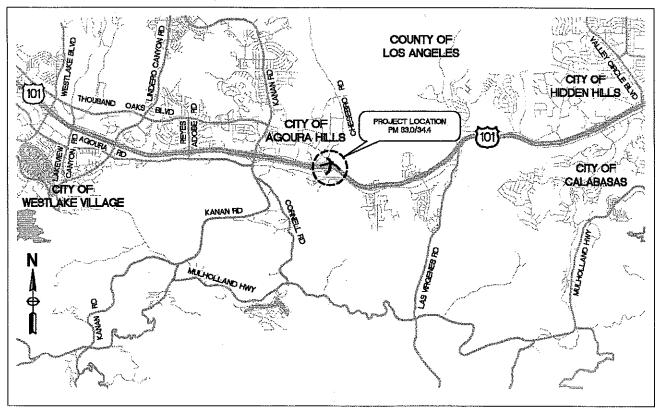
To

Request for Conceptual Approval And

Programming for Capital Cost

| On Route | US-101 | · |
|----------------------------------|---|---------------------------------------|
| Between | 0.9 mile West of Liberty Canyon Road | <u>.</u> |
| And _ | 1.3 mile East of Kanan Road | |
| information contained in this PS | ere completed by a consultant. I have reviewed R and the Right-of-Way Data Sheets attached t edures only. No inferences or assertions are m R/W Data Sheets. | hereto, and find the data to |
| Andrew P. Nierenberg, Distr | rict Division Chief, Right of Way | |
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| 701 | 2/27/09 Buch | 31861c |
| Douglas R. Failing | Date Ramiro Ado | eva Date |
| District Director/ | City Engine | er, |

City Of Agoura Hills



On Route Between And US-101 0.9 mile West of Liberty Canyon Road

1.3 mile East of Kanan Road

This Project Study Report has been prepared under the direction of the following Registered Civil Engineer. The Registered Civil Engineer attests to the technical information contained therein and has judged the qualifications of any technical specialists providing engineering data upon which recommendations, conclusions, and decisions are based.

Surfactable

Surafael Teshale, P.E.
Registered Civil Engineer
Parsons Transportation Group, Inc.

2 | 23 | 2009 Date



PREPARED BY: Parsons Transportation Group Inc. For the City of Agoura Hills

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PROJECT STUDY REPORT

1. INTRODUCTION

The City of Agoura Hills (City) proposes to improve Palo Comado Canyon Road and the US 101 Palo Comado Canyon Road interchange (PM 33.0/34.4) in Los Angeles County. The proposed work includes widening the US 101 Palo Comado Canyon Road Overcrossing (OC) from one lane to two lanes in each direction, adding median and sidewalks, modifying the northbound on- and off-ramps, and modifying the intersections. The improvements would facilitate the increased volume of traffic using the interchange due to the development of the surrounding community including the construction of the Heschel West School in the immediate vicinity of the interchange. The project will improve flow and enhance safety for vehicles.

See Cost Estimate for specific work items included in this project.

| Project Limits (Dist., Co., Rte., PM): | 07-LA-US101 PM 33.0/34.4 |
|---|-------------------------------------|
| Number of Alternatives: | Four |
| Alternative Recommended for Programming: | Alternative 3A |
| Programmed or Proposed Capital Construction Costs: | \$19,812,000 |
| Programmed or Proposed Capital Right-of-Way Costs: | \$1,491,500 |
| Funding Source: | City of Agoura Hills – General Fund |
| Type of Facility (conventional, expressway, freeway): | Freeway |
| Number of Structures: | One |
| Anticipated Environmental Determination/Document: | IS/EA |
| Legal Description: | |
| Project Category: | 4B |

Alternative 3 is the recommended alternative for programming only. All of the project alternatives will be carried to the next phase of the project. The Project Report will serve as the approval document for the selection of the preferred alternative.

US 101 is part of the federal highway system. The project includes improvements to local streets outside of the state and federal highway system, and it will require review and approval from local agencies — City of Agoura Hills and the County of Los Angeles.

2. BACKGROUND

The County of Los Angeles has approved the development of the vacant land in the northeast quadrant of the US 101/Palo Comado Canyon Road interchange. The land will be developed into Heschel West School, a private school, providing education to grades Pre-K-9. The school will have buildings totaling 166,450 square feet of floor space and ultimately serve up to 660 students and 90 preschoolers. Access to the school will be provided through Canwood Street, which is located adjacent to the US 101/Palo Comado Canyon Road interchange northbound off-ramp. The existing intersection at Palo Comado Canyon Road and the northbound ramps will be upgraded to a 5-legged signalized intersection as part of a current Caltrans permit project, with Canwood Street as the fifth leg (see Attachment B - Alternative 1). Although the development of the school occurs within Los Angeles County, the area adjacent to it, including Canwood Street and Palo Comado Canyon Road, are within the city of Agoura Hills. In addition to the proposed new school, there is a commercial office center with over 63,000 square feet of office space under construction at the northeast corner of Chesebro Road and Agoura Road, which is immediately south of the interchange. Furthermore, there are several developers seeking approval from the City to construct commercial and residential developments in the immediate vicinity of the interchange. On the north side of the freeway a new office center (8,000 square feet) and a furniture sales center (38,000 square feet) are planned. On the south side of the freeway a drive-through fast food restaurant (3,200 square feet), a tire retail store (8,000 square feet), a carpeting store (14,000 square feet) and an office center (20,000 square feet) are planned. These developments will use the Palo Comado Canyon Road interchange to access US 101.

Recognizing that the existing roadway network and freeway interchange will not accommodate the expected growth, the City is planning for the necessary roadway improvements.

Other Projects

The State approved a Project Study Report/Project Development Support (PSR/PDS) for the widening of US 101 (EA 24929k) on October 11, 2005. The PSR/PDS proposes to widen the median and add one mixed flow lane to each direction of the freeway.

3. PURPOSE AND NEED STATEMENT

Need

Currently, the distance between the existing Canwood Street intersection and the US 101 northbound ramps intersection on Palo Comado Canyon Road is approximately 100 feet (centerline to centerline). This configuration presents a nonstandard access control distance beyond the northbound off-ramp termini, and it does not have the capacity to handle the forecasted increase in traffic demand. Furthermore, the planned developments around Chesebro Road, Palo Comado Canyon Road, and Canwood Street west of Palo Comado Canyon Road will substantially increase traffic volumes on the local roadway network, as well as the US 101 interchange. Roadway improvements are needed to keep

traffic operation Level of Service (LOS) on the roadways and intersections within an acceptable range.

The need for this project is as follows:

- Planned development of the vacant lands adjacent to the interchange will increase traffic volumes around the area, and improvements to the interchange and the roadway network are needed to accommodate the additional traffic demands and relieve congestion.
- The existing access road, Canwood Street, has an intersection approximately 100 feet (centerline to centerline) from the existing northbound on-ramp intersection at the Palo Comado Canyon Road interchange. Improvements are needed to provide better access control and traffic circulation.

Purpose:

The purpose of the Palo Comado Canyon Road interchange improvement project is to:

- Provide improved access to the proposed new school
- Improve traffic circulation on the roadway network adjacent to the Palo Comado Canyon Road interchange
- Accommodate the forecasted increases in traffic volume resulting from future developments
- Improve the safety and operational LOS for the US 101/Palo Comado Canyon Road interchange

4. **DEFICIENCIES**

4.1 Land Use

Current Land Use

Land uses adjacent to the project area include residential, commercial, and school properties. The neighborhood along Agoura Road south of the interchange is mostly residential with single-family homes, while the properties in the immediate area of the interchange are mostly commercial, including business parks, light industrial, retail, and gas stations. Gas stations exist in the northeast and northwest quadrants of the interchange adjacent to the northbound ramps. Most of the remaining areas in the northeast quadrant of the interchange are vacant land, except for an equestrian community located near the intersection of Palo Comado Canyon Road and Driver Avenue. Several multi-family residential properties, Agoura Park, and Agoura High School are located northwest of the interchange.

Future Land Use

There are current plans to develop the vacant land in the northeast quadrant of the interchange into a school. The area has scattered vacant lots zoned commercial and residential that are planned to be developed as discussed in Section 2.

4.2 Roadway Network

Current Facility

US 101 is nominally a north-south principal arterial on the U.S. Highway System, but it runs east-west through the project area. The freeway is classified as an urban principal arterial freeway which provides international, interstate, interregional, and intra-regional travel and goods movement. It is part of the Surface Transportation Assistance Act (STAA) route network, the Interregional Road System (IRRS), a designated Lifeline route, and a Federal Aid Primary (FAP) system, which is a subset of the National Highway System (NHS). Within the project limits, approaching the Palo Comado Canyon Road Overcrossing from the east, the freeway typical section is on a curved horizontal alignment that is in cut that varies from 2 feet to 40 feet; west of the Palo Comado Canyon Road Overcrossing, the freeway typical section is on a tangent alignment that is on embankment fill that varies from 2 feet to 6 feet. The freeway is on an upgrade of 2.8 percent from the east, then crests at the existing overcrossing and continues on a downgrade of 0.8 percent to the west. The freeway has 4 mixed flow lanes in each direction and auxiliary lanes to and from the interchange ramps on both sides of the freeway.

The local roadways around the Palo Comado Canyon Road interchange have many discontinuities, as shown in Attachment B, Alternative 1. Canwood Street is a 2.5-mile east-west frontage road on the north side of US 101 that is discontinued between Chesebro Road and Palo Comado Canyon Road; it ends approximately 250 feet east of Palo Comado Canyon Road. Driver Avenue is also an east-west road parallel to US 101 located approximately 0.4-mile north of the freeway. Driver Avenue is the main collector road for the community north of the freeway, including Agoura High School located approximately 0.8-mile west of the project site. Driver Avenue feeds directly into Palo Comado Canyon Road at Chesebro Road north of the interchange. Agoura Road is a major east-west arterial approximately 0.2-mile south of the interchange running parallel to the freeway.

Chesebro Road is a north-south arterial that begins at Agoura Road south of the freeway and ends north beyond the limits of the city. Chesebro Road does not cross the freeway and is discontinued from where it joins the southbound freeway ramps on the south side of the freeway and Canwood Street on the north side of the freeway. Palo Comado Canyon Road intersects Chesebro Road on both sides of the freeway and serves to transport traffic over the freeway.

The Palo Comado Canyon Road interchange is configured with tight diamond (L-1) ramps for the northbound side and hook ramps (L-6) for the southbound side. The southbound hook ramps connect with Dorothy Drive and Chesebro Road at a four-point

intersection south of US 101. Dorothy Drive intersects with Palo Comado Canyon Road approximately 550 feet east of the hook ramp; however, due to a grade difference between the two roadways, the westerly side of Dorothy Drive and Palo Comado Canyon Road do not connect. A short section of Chesebro Road directly opposite the hook ramps provides access from the ramps to Palo Comado Canyon Road. The southbound off-ramp is a 1-lane exit that widens to 2 lanes at the termini. The southbound on-ramp is a 1-lane ramp throughout. The northbound on-ramp has 2 lanes starting from the intersection and tapers to a 1-lane on-ramp before joining the freeway. The northbound off-ramp is also a 1-lane facility and widens to 2 lanes at the termini.

Palo Comado Canyon Road is a 2-lane facility connecting Chesebro Road north and south of the freeway. The existing freeway overcrossing structure was built in 1963. It provides 12-foot-wide travel ways and 4-foot-wide shoulders in each direction. A 5-foot-wide sidewalk is provided on the west side of the structure. The bridge was repaired with one new concrete girder in 2006. The minimum vertical clearance is 15 feet, which is located in the northeast corner of the structure over the northbound US 101 outer lane.

The interchange does not have any signalized intersections. Palo Comado Canyon Road is a free-flowing street from Agoura Road to Driver Avenue, where the intersection is four-way "stop" controlled. Canwood Street at Palo Comado Canyon Road, and the US 101 northbound off-ramp at Palo Comado Canyon Road, and Dorothy Drive at Palo Comado Canyon Road are all one-way "stop" controlled. The intersection at Dorothy Drive, Chesebro Road, and the southbound hook ramps is four-way "stop" controlled.

4.3 Traffic

The results of the traffic analyses for the project, which includes year 2008, 2015, and 2035 as the existing, opening year, and design year, respectively, are presented below. The LOS conditions for the no build and build conditions for each of the intersection movements and for the intersection as a whole are illustrated in Figures 1 through 9 of Attachment D. The figures also show projected volumes of traffic and the type of control devices proposed. The traffic volume data is based on information collected from the June 2006 Environmental Impact Report for the Heschel School project. The "no build" condition reflects a 5-legged intersection at the northbound on-/off-ramps as proposed by the Heschel School project. A layout of the no build condition is shown as Alternative 1 in Attachment B. Refer to Section 6 of this PSR for an explanation of the project alternatives.

Table 1 summarizes the LOS results of the traffic analysis for the intersections. The analysis indicates that the existing stop-controlled northbound off-ramp is already operating at LOS F and E for the left-turn movement during the AM and PM peak hour, respectively. The projected year 2015 intersection LOS at the northbound ramps under the no build condition would be at unacceptable LOS E and F during the AM and PM peak hour, respectively, even with construction and signalization of the 5-legged Palo Comado Canyon Road/Canwood Street/northbound ramps intersection. The LOS for the intersection would worsen further to LOS F for both the AM and PM peak hour by year 2035. The capacity constraints for the no build condition are reflected in the lower volumes of traffic projected during the peak hours.

The year 2015 intersection LOS for all of the build alternatives would be LOS B or better. The year 2035 intersection LOS for all of the build alternatives would be at acceptable LOS D or better. Under Alternative 2, the year 2035 intersection LOS at Palo Comado Canyon Road and the northbound ramps would be LOS D and B for the AM and PM peak hour, respectively, while the intersection at Palo Comado Canyon Road and the school entrance would be LOS B for both the AM and PM peak hour.

Table 1 – Intersection Levels of Service Summary

| | | A | LTERI | VITAN | and the second s | |
|---|----|----------|---------|-------|--|----|
| Intersection Location | | | | | 3/. | 3A |
| | AM | PM | AM | PM | AM | PM |
| 2008 | | | in a su | | i Pi | |
| Palo Comado Canyon Road at NB Diamond On Ramp | F | E | | | | |
| 2015 | | | | | | |
| Palo Comado Canyon Road at NB On Ramp | F | E | В | В | В | В |
| Palo Comado Canyon Road at NB Off Ramp | F | E | В | В | A | A |
| School Entrance at Palo Comado Canyon Road (Alternative 2 only) | | | A | A | | |
| Roundabout at NB ramps and Palo Comado Canyon Road | | | | | | |
| 2035 | | | | | | |
| Palo Comado Canyon Road at NB On Ramp | F | F | D | В | В | С |
| Palo Comado Canyon Road at NB Off Ramp | F | F | D | В | A | A |
| School Entrance at Palo Comado Canyon Road (Alternative 2 only) | | | В | В | 1 | |
| Roundabout at NB ramps and Palo Comado Canyon Road | | | <u></u> | | ÷ | |

Under Alternative 3 and 3A, Canwood Street would serve as a frontage road and connect to Palo Comado Canyon Road as the easterly leg of the northbound on-ramp/Palo Comado Canyon Road intersection. The northbound diamond off-ramp would be replaced by a northbound hook off-ramp connecting to Canwood Street. The intersection at the northbound on-ramp would have an overall year 2035 intersection LOS of B and C for the AM and PM peak hour, respectively. The proposed intersection at Canwood Street and the northbound hook off-ramp would have an overall year 2035 LOS of A for both the AM and PM peak hours.

4.4 Accident Analysis

The accident data from Traffic Accident Surveillance and Analysis System (TASAS) Table B, for the 3-year period ending December 31, 2007, shows that the total rate of accidents at the Palo Comado Canyon Road interchange is generally lower than the statewide average accident rate, except for the northbound off-ramp. The total accident rate for the northbound off-ramp is 0.42 points higher than the statewide average for similar facilities. No accidents are reported on the mainline. The TASAS data is provided in Attachment D, and the information is summarized in Table 2.

Table 2 - Accident Rates for US 101/Palo Comado Canyon Road Interchange

Period: 1/1/05-12/31/2007

| Route Segment US 101 Palo Comado | Actua | Accident Rai | es . | Statewide Average Accident Rate for Similar Facility | | | | | |
|----------------------------------|------------|--------------------------|-------|--|--------------------------|-------|--|--|--|
| Canyon Road Interchange | Fatalities | Injuries & Fatalities | Total | Fatalities | Injuries & Fatalities | Total | | | |
| Northbound US 101 Mainline | 0.000 | 0.000 | 0.000 | 0.003 | 0.186 | 0.596 | | | |
| Southbound US 101 Mainline | 0.000 | 0.000 | 0.000 | 0.003 | 0.186 | 0.596 | | | |
| Northbound off-ramp | 0.000 | 0.70 | 1.92 | 0.005 | 0.61 | 1.50 | | | |
| Southbound on-ramp | 0.000 | 0.17 | 0.17 | 0.002 | 0.19 | 0.55 | | | |
| Northbound on-ramp | 0.000 | 0.33 | 0.65 | 0.002 | 0.32 | 0.80 | | | |
| Southbound off-ramp | 0.000 | 0.34 | 0.67 | 0.005 | 0.39 | 1.15 | | | |

Source: TASAS Table "B" Caltrans District 7.

Table 3 summarizes the types of collisions that occurred at the interchange.

The data indicates that 69 percent of all accidents at the interchange occurred at the northbound off-ramp. Out of 11 accidents that occurred at the northbound off-ramp, 9 (82 percent) of them occurred at the intersection with Palo Comado Canyon Road where the off-ramp is stop controlled. The remaining 2 occurred midway through the ramp and had "influence alcohol" as the primary collision factor. No accidents are reported in the area with nonstandard minimum vertical clearance in the northbound direction of US 101.

The proposed improvements are not anticipated to contribute to an increase in accidents. Additional lanes for through and turning movements would be provided to accommodate the increased traffic. Signalized intersections in Alternative 2 and 3 would be provided to improve right-of-way control. The improvements under Alternative 2 and 3 would increase the spacing between intersections, and traffic operations would be enhanced despite the nonstandard intersection spacing that would remain.

Table 3 - Types of Collision for US 101/Palo Comado Canyon Road Interchange

Period: 1/1/05-12/31/2007

| Route Segment US 101 Palo Comado | TYPE OF COLLISION | | | | | | | | |
|----------------------------------|-------------------|----------------|-------------|-----------|-----|---------------|-------|-------|--|
| Canyon Road Interchange | Head -on | Side- swipe | Rear End | Broadside | Hit | Over- Turn | Other | TOTAL | |
| Northbound US 101 Mainline | | | | | | | | 0 | |
| Southbound US 101 Mainline | | | | | | | | 0 | |
| Northbound off-ramp | | 3 | 3 | 2 | 1 | | 2 | 11 | |
| Southbound on-ramp | | | 1 | | | | | 1 | |
| Northbound on-ramp | 1 | | | | | | 1 | 2 | |
| Southbound off-ramp | | | 2 | | | | | 2 | |

Source: TASAS Table "B" Caltrans District 7.

5. CORRIDOR AND SYSTEM COORDINATION

5.1 System Planning

The 1999 Transportation Concept Report for US 101 was approved on August 2, 1999, and the recommended lane configuration for the segment of US 101 within the project limits is four mixed-flow lanes and one high-occupancy vehicle lane. The proposed project does not conflict with the report.

The proposed project is not listed in Southern California Association of Governments (SCAG) 2008 Regional Transportation Plan or its 2006/2007 Regional Transportation Improvement Program. The project is not found in the latest Congestion Management Program.

The project sponsor should take steps to assure that the project is listed in all of the required documents, including the Southern California Association of Governments' Regional Transportation Plan and the Regional Transportation Improvement Plan, as required.

5.2 Air Quality Conformity

The project would increase capacity, and it should be included with other projects that will be modeled for determining conformity. The project needs to be included in the Southern California Association of Governments' Regional Transportation Plan and the Regional Transportation Improvement Plan as appropriate to satisfy the regional conformity requirement.

6. ALTERNATIVES

One no build alternative (Alternative 1) and three build alternatives are proposed for the project. Layouts and typical cross sections for each of the viable alternatives are provided in Attachment B. All of the build alternatives propose to widen Palo Comado Canyon Road from two lanes to four lanes with standard median, shoulders, and sidewalk.

6.1 Viable Project Alternatives

6.1.1 Alternative 1: No Build

The No Build Alternative would maintain the configuration of the US 101/Palo Comado Canyon Road interchange and the Palo Comado Canyon Road/Canwood Street intersection. The northbound ramp intersection at Palo Comado Canyon Road will include a fifth leg to Canwood Street, and the intersection will be signalized as part of a current Caltrans permit project. The Palo Comado Canyon Road Overcrossing would remain as a two-lane road and would not accommodate the future traffic demand. Congestion would not be alleviated, and the situation would deteriorate with time. There are no construction or right-of-way costs associated with this alternative.

6.1.2 Alternative 2: Widen Palo Comado Canyon Road and Overcrossing and Maintain Tight Diamond Ramps

This alternative proposes to maintain the existing tight diamond configuration of the northbound ramps and widen the entire length of Palo Comado Canyon Road and the existing overcrossing from 2 lanes to 4 lanes. The project would provide access to Heschel School via a new signalized intersection on Palo Comado Canyon Road between the northbound ramps and Driver Avenue. The project would eliminate the fifth leg (i.e. Canwood Street) at the existing Palo Comado Canyon Road, northbound ramps, and Canwood Street intersection that is proposed as part of the school project. Canwood Street, east of Palo Comado Canyon Road would be closed. The northbound ramps intersection would be modified to provide standard approach angles. Traffic signals will be installed at the northbound ramps intersection at Palo Comado Canyon Road or modified if the Heschel School project has already implemented a 5-legged signalized intersection. The estimated total project cost for Alternative 2 is \$14,345,500, including \$11,533,000 in construction costs, \$1,082,500 in right-of-way costs, and \$1,730,000 in support costs. A summary of the project cost estimate is provided in Attachment E.

6.1.3 Alternative 3: Widen Palo Comado Canyon Road and Construct Northbound Hook Off-Ramp.

This alternative proposes to reconfigure the northbound off-ramp to a partial Type L-6 hook ramp and widen the entire length of Palo Comado Canyon Road and the existing overcrossing from 2 lanes to 4 lanes. The school driveway would be relocated to the eastern end of Canwood Street approximately 60 feet east of the proposed hook off-ramp. The existing tight diamond northbound off-ramp would be removed, and the frontage road (i.e., Canwood Street) would be realigned and reconstructed to provide 2 lanes in

each direction. The intersection at Palo Comado Canyon Road and Canwood Street would be signalized and reconfigured so that westbound Canwood Street would have dual left-turn lanes to southbound Palo Comado Canyon Road, one shared through/rightturn lane to the northbound on-ramp and northbound Palo Comado Canyon Road, and one right-turn lane to northbound Palo Comado Canyon Road. The intersection at the proposed hook off-ramp and Canwood Street would be signalized, and the hook off-ramp would be configured with a right-turn lane and dual left-turn lanes to eastbound and westbound Canwood Street, respectively. Overhead lane usage signs and traffic markings are recommended to guide motorists on the northbound off-ramp and westbound Canwood Street. This alternative would widen the existing overcrossing and its approaches from 2 lanes to 4 lanes, similar to Alternative 2. The existing northbound tight diamond on-ramp would be modified to provide a standard approach angle at the intersection with Palo Comado Canyon Road. The estimated total project cost for Alternative 3 is \$21,608,500, including \$17,493,000 in construction costs, \$1,491,000 in right-of-way costs, and \$2,624,000 in support costs. A summary of the project cost estimate is provided in Attachment E.

6.1.4 Alternative 3A: Widen Palo Comado Canyon Road with Full Overcrossing Replacement and Construct Northbound Hook Off-Ramp

This alternative is identical to Alternative 3 except that the existing Palo Comado Canyon Road overcrossing will be replaced instead of being widened. The overcrossing and its approaches will be constructed at a higher vertical profile to allow for a standard vertical clearance over the US 101. The estimated total project cost for Alternative 3A is \$24,275,500, including \$19,812,000 in construction costs, \$1,491,500 in right-of-way costs, and \$2,972,000 in support costs. A summary of the project cost estimate is provided in Attachment E.

6.2 Analysis of Proposals

All three of the build alternatives would provide acceptable LOS through to the design year 2035, as discussed in Section 4.3. A summary of the estimated cost for each of the alternatives is shown in Table 4. Alternative 2 provides acceptable LOS, and it has the lowest construction cost for the project. Alternative 2 will require the realignment of the school access road from Canwood Street as described in Section 2 to Palo Comado Canyon Road.

The access road to the school via Canwood Street with a five-legged intersection at the northbound ramps is an interim condition. The access via Canwood Street is provided on condition that the school will reconstruct or relocate the school access road to accommodate future improvements at the interchange. The realignment of the private school access road will be funded and constructed as a separate project by others. The realignment of the access road will take right-of-way through a private open space parcel within the Old Agoura equestrian community in the City of Agoura Hills. The cut slopes required through the existing hillside of this parcel will change the character of this semi-rural community. The realignment of the school access road will not be part of this project.

Table 4 - Summary Cost Estimate of the Project Alternatives

| | Alternative 2 | Alternative 3 | Alternative 3A | | | | | |
|---------------------------------|--|------------------|----------------|--|--|--|--|--|
| Cost for Improvements within th | e State Right-o | of-Way | | | | | | |
| Roadway | \$5,270,000 | \$9,410,000 | \$9,480,000 | | | | | |
| Structures | \$2,943,000 | \$2,943,000 | \$4,812,000 | | | | | |
| Subtotal Construction | \$8,213,000 | \$12,353,000 | \$14,292,000 | | | | | |
| Right-of-Way | \$0 | \$174,000 | \$174,000 | | | | | |
| Support | \$1,232,000 | \$1,853,000 | \$2,144,000 | | | | | |
| Total Cost | \$9,445,000 | \$14,380,000 | \$16,610,000 | | | | | |
| Cost for improvements outside t | Cost for improvements outside the State Right of Way | | | | | | | |
| Roadway | \$3,320,000 | \$5,140,000 | \$5,520,000 | | | | | |
| Structures | \$0_ | \$0 | \$0 | | | | | |
| Subtotal Construction | \$3,320,000 | \$5,140,000 | \$5,520,000 | | | | | |
| Right-of-Way | \$1,082,500 | \$1,317,500 | \$1,317,500 | | | | | |
| Support | \$498,000 | \$771,000 | \$828,000 | | | | | |
| Total Cost | \$4,900,500 | \$7,228,500 | \$7,665,500 | | | | | |
| Cost for Entire Project | | | | | | | | |
| Roadway | \$8,590,000 | \$14,550,000 | \$15,000,000 | | | | | |
| Structures | \$2,943,000 | \$2,943,000 | \$4,812,000 | | | | | |
| Subtotal Construction | \$11,533,000 | \$17,493,000 | \$19,812,000 | | | | | |
| Right-of-Way | \$1,082,500 | \$1,491,500 | \$1,491,500 | | | | | |
| Support | \$1,730,000 | \$2,624,000 | \$2,972,000 | | | | | |
| Total Project Cost | \$14,345,500 | \$21,608,500 | \$24,275,500 | | | | | |

Alternative 3 and 3A would also provide acceptable LOS. However, the realignment of the school access road at the eastern terminus joining Canwood Street is expected to have far fewer right-of-way and community impacts compared to Alternative 2. The design of the tall retaining walls required along the freeway and the ramps will need to be consistent with the mountainous, open space characteristics of the US 101 corridor in the area. All the alternatives meet the need and purpose of this project.

6.3 Nonstandard Design Features

6.3.1 Nonstandard Design Features for Alternative 2

The proposed nonstandard design features for Alternative 2 are identified as follows. The location of the design exceptions are also shown in the layout sheet provided in Attachment B.

Mandatory Design Features

Vertical Clearances

A nonstandard minimum vertical clearance of 15 feet exists at the right edge of the traveled way on the northbound lane of US 101 under the overcrossing. The existing minimum vertical clearance would be maintained. The vertical clearance under the widened portion would be 15.0 feet, and it would not deteriorate the existing minimum vertical clearance. Index 309.2(1) (a) of the Highway Design Manual requires that 16 feet 6 inches shall be the minimum vertical clearance over the roadbed of the State facility.

Location and Design of Ramp Intersection on the Crossroads

The existing intersection of Canwood Street and Palo Comado Canyon Road will be eliminated in Alternative 2 and a nonstandard distance of 212 feet (curb return to curb return) is proposed between the northbound off-ramp intersection and the proposed school access road intersection on Palo Comado Canyon Road. The existing nonstandard distance between the intersection of the northbound off-ramp and the intersection of Canwood Street on Palo Comado Canyon Road is zero feet (curb return to curb return). Index 504.3(3) of the Highway Design Manual requires that for new construction or major reconstruction of interchanges, the minimum distance between the ramp intersection and local road intersection shall be 400 feet.

Superelevation Rate

A nonstandard superelevation rate of -2 percent is proposed for a horizontal curve of 850 feet radius on the proposed northbound on-ramp. Index 202.2 of the Highway Design Manual requires that based on an e_{max} selected by the designer for one of the conditions, superelevation rates from Table 202.2 shall be used within the given range of curve radii. Based on Table 202.2, the standard superelevation for ramps with range of radii of 850 to 1,099 feet is 10 percent.

Advisory Design Features

Location and Design of Ramp Intersection on the Crossroads

The existing intersection of Canwood Street and Palo Comado Canyon Road will be eliminated in Alternative 2 and a nonstandard distance of 212 feet (curb return to curb return) is proposed between the northbound off-ramp intersection and the proposed school access road intersection on Palo Comado Canyon Road. The existing nonstandard distance between the intersection of the northbound off-ramp and the intersection of Canwood Street on Palo Comado Canyon Road is zero feet. Index 504.3(3) of the Highway Design Manual requires that for new construction or major reconstruction of interchanges, the preferred minimum distance between the ramp intersection and local road intersection should be 500 feet.

Superelevation Transition Rate

A nonstandard superelevation transition rate of 6% per 100' is proposed for a horizontal curve of 850 feet radius on the proposed northbound on-ramp. Index 202.5(1) of the

Highway Design Manual requires that a superelevation transition should be designed in accordance with the diagram and tabular data shon in Figure 202.5A to satisfy the requirements of safety, comfort and pleasing appearance. Based on Table 202.5A, the standard superelevation transition rate is 1% per 2,500 feet.

6.3.2 Nonstandard Design Features for Alternative 3 and 3A

The proposed nonstandard design features for Alternative 3 and 3A are identified as follows. The location of the design exceptions are also shown in the layout sheet provided in Attachment B.

Mandatory Design Features

Vertical Clearances (not applicable to Alternative 3A)

A nonstandard minimum vertical clearance of 15 feet exists at the right edge of the traveled way on the northbound lane of US 101 under the overcrossing. The existing minimum vertical clearance would be maintained. The vertical clearance under the widened portion would be 15.0 feet, and it would not deteriorate the existing minimum vertical clearance. Index 309.2(1) (a) of the Highway Design Manual requires that 16 feet 6 inches shall be the minimum vertical clearance over the roadbed of the State facility.

Location and Design of Ramp Intersection on the Crossroads

A nonstandard distance of 226 feet (curb return to curb return) is proposed between the northbound off-ramp intersection and the Palo Comado Canyon Road intersection on Canwood Street. The existing nonstandard distance between the intersection of the northbound off-ramp and the intersection of Canwood Street on Palo Comado Canyon Road is zero feet (curb return to curb return). Index 504.3(3) of the Highway Design Manual requires that for new construction or major reconstruction of interchanges, the minimum distance between the ramp intersection and local road intersection shall be 400 feet.

Superelevation Rate

A nonstandard superelevation rate of 3 percent is proposed for a horizontal curve of 215 feet radius on the proposed northbound off-ramp. Index 202.2 of the Highway Design Manual requires that based on an e_{max} selected by the designer for one of the conditions, superelevation rates from Table 202.2 shall be used within the given range of curve radii. Based on Table 202.2, the standard superelevation for ramps with range of radii of 625 feet and under is 12 percent.

A nonstandard superelevation rate of -2 percent is proposed for a horizontal curve of 850 feet radius on the proposed northbound on-ramp. Index 202.2 of the Highway Design Manual requires that based on an e_{max} selected by the designer for one of the conditions, superelevation rates from Table 202.2 shall be used within the given range of curve radii. Based on Table 202.2, the standard superelevation for ramps with range of radii of 850 to 1,099 feet is 10 percent.

Access Control

A nonstandard access control distance of zero feet exists between the northbound onramp and Canwood Street on Palo Comado Canyon Road. A nonstandard access control distance of zero feet is proposed opposite the northbound on-ramp at Palo Comado Canyon Road. Index 504.8 of the Highway Design Manual requires that access control shall extend 50 feet beyond the end of the curb return or ramp radius, or taper.

Advisory Design Features

Location and Design of Ramp Intersection on the Crossroads

A nonstandard distance of 226 feet is provided between the northbound off-ramp intersection and the Palo Comado Canyon Road intersection on Canwood Street. The existing nonstandard distance between the intersection of the northbound off-ramp and the intersection of Canwood Street on Palo Comado Canyon Road is zero feet. Index 504.3(3) of the Highway Design Manual requires that for new construction or major reconstruction of interchanges, the preferred minimum distance between the ramp intersection and local road intersection should be 500 feet.

Access Control

A nonstandard access control distance of zero feet exists between the northbound offramp and Canwood Street along Palo Comado Canyon Road. A nonstandard access control distance of zero feet is proposed opposite the northbound on-ramp at Palo Comado Canyon Road. Index 504.8 of the Highway Design Manual requires that for new construction, access control should extend 100 feet beyond the end of the curb return or ramp radius in urban areas and 300 feet in rural areas, or as far as necessary, to ensure that entry onto the facility does not impair operational characteristics.

Isolated Off-Ramp

A nonstandard isolated off-ramp and partial interchange is proposed for the northbound hook off-ramp. Index 502.2 of the Highway Design Manual requires that isolated off-ramps or partial interchanges should be avoided because of the potential for wrong-way movements and added driver confusion.

6.4 Other Geometries Considered for the Project

Several other layout geometries have been considered for the project. A roundabout at the northbound ramp and Palo Comado Canyon Road intersection with Canwood Street as a fifth leg of the roundabout was considered in the PSR phase. Providing a roundabout layout with adequate spacing between the five legs of the roundabout, and a configuration that could reduce the ramp speeds, and provide adequate pedestrian and bicycle access would result in substantial right-of-way impacts to the both gas stations located at the intersection of the northbound ramps and Palo Comado Canyon Road.

7. Common Features for Alternatives

7.1 Right-of-Way Impacts

Right-of-way data sheets and exhibits for the project alternatives are provided in Attachment I. For Alternative 2, the City would need to acquire a partial take from one vacant undeveloped commercial retail zoned parcel in the northeast quadrant to accommodate the construction of vehicular access around the existing gas station and one full take of a vacant undeveloped single family residence zoned parcel in the southwest quadrant of the project to accommodate grading slopes associated with the widening of Palo Comado Canyon Road. Under Alternative 3 and 3A, additional right-of-way will be required from two additional parcels to accommodate the proposed hook off-ramp intersection at Canwood Street. These include a partial take from vacant County of Los Angeles land and a full take of a vacant commercial retail/service zoned parcel due to access restrictions. The latter parcel will be result in excess City right-of-way. Please refer to the exhibits attached to the right-of-way data sheets in Attachment I showing the areas of right-of-way acquisitions. There are no displacements required in any of the alternatives. The estimated total acquisition cost is \$619,000 for Alternative 2 and \$968,000 for Alternative 3 and 3A.

7.2 Utility Impacts

There are several utilities within the limits of the project including a sewer lines, overhead electrical lines, overhead telephone lines, and Caltrans communications including a fiber optic line along the outside shoulder of the freeway. Research shows no existing longitudinal utilities along Palo Comado Canyon Road. The replacement or widening of the overcrossing has the potential to impact the fiber optic and electrical communication lines located on the outside shoulders of the freeway. The widening and/or reconstruction of Palo Comado Canyon Road and the construction of retaining walls along Palo Comado Canyon Road and the northbound on-ramp may impact the existing overhead electrical, existing overhead telephone, and existing underground sewer lines and manholes. The estimated cost for the potential relocation of these utilities is \$583,500. Please refer to the right-of-way utility estimate worksheets in Attachment I for a breakdown of the potential utility relocation costs. The project cost estimates include the potential cost of relocating these utilities. The layout showing the location of the existing utilities can be found in Attachment I.

7.3 Construction Staging

The project would require construction staging to maintain Palo Comado Canyon Road and the freeway ramps open during construction. Widening or replacement of the overcrossing would be performed in stages that would allow at least two lanes of Palo Comado Canyon Road and one lane of the freeway ramps to remain open during construction. More information regarding stage construction for the project is provided in the Transportation Management Plan (TMP) included in Attachment J.

7.4 Transportation Management Plan

A TMP for the project was prepared to minimize delay and inconvenience to the traveling public during construction of the proposed improvements at the Palo Comado Canyon Road interchange. Information regarding stage construction and a preliminary cost estimate for the TMP for the project is provided Attachment J.

7.5 Resource Conservation

Measures would be taken to conserve energy and nonrenewable resources during construction. Materials would be recycled according to Caltrans specifications, and existing pavement would be incorporated back into the project.

8. ENVIRONMENTAL DETERMINATION/DOCUMENTATION

8.1 Environmental Summary

Based on the Preliminary Environmental Analysis Report (PEAR), which is provided in Attachment F, the anticipated environmental document for this project will be a joint Initial Study/Environmental Assessment (IS/EA), with anticipated Mitigated Negative Declaration (MND) under the California Environmental Quality Act (CEQA) and Finding of No Significant Impact (FONSI) under the National Environmental Policy Act (NEPA) as the approval documents. The California Department of Transportation would be the lead agency under CEQA and Caltrans would be the lead agency under the assumption of responsibility pursuant to the 23 U.S.C. 327, NEPA delegation. No significant impacts are associated with the build alternatives that cannot be mitigated to a less than significant level. The environmental issues that could affect the cost and schedule of the project include:

- Air quality analysis and potential abatement
- Noise impact and potential abatement
- Soil investigations and structure surveys for hazardous materials and potential for special handling and disposal of hazardous materials

Table 5 presents potential and anticipated permits required for this proposed project. The project would have to obtain a National Pollutant Discharge Elimination System (NPDES) permit. Based on the reconnaissance survey, no water bodies are located within the immediate project vicinity. The proposed project would not require application to the Regional Water Quality Control Board (RWQCB) under provisions of §401 of the Clean Water Act.

Table 5 – Potential and Anticipated Permits Required for this Project

| Regulation and Description | Resource Agency |
|---|--|
| National Pollutant Discharge Elimination System (NPDES) – Storm Water Pollution Prevention Plan (SWPPP) | California Water Resources Control Board |

8.2 Anticipated Project Mitigation

8.2.1 Hazardous Waste

Prior to disposal of drilled soil and groundwater from the piling areas, sampling and analysis of the subject soil and groundwater would be conducted to determine the level of contamination to identify proper handling and disposal methods.

Prior to project construction, sampling and analysis of the liquids in the pole-top transformers would be conducted to determine if polychlorinated biphenyls (PCBs) are present in the pole-top transformer fluid and to determine proper disposal methods if the transformers are to be removed or proper handling methods if the transformers are to be relocated.

Prior to project construction, sampling and analysis of the joint compound in the overcrossing would be conducted to determine whether or not asbestos-containing materials (ACMs) are present in the joint compound and to determine proper disposal methods if ACMs are found.

Prior to project construction, sampling and analysis of the paint striping on the roadways would be conducted to determine whether lead-based paint (LBP) is present in the lane striping paint and to determine proper disposal methods if lead is found.

Prior to project construction, sampling and analysis of surface soils from unpaved areas along the US 101/Palo Comado Canyon Road interchange that are subject to excavation would be conducted to determine the level of total and soluble lead to allow proper excavated soil management, including onsite placement or offsite disposal.

Prior to project construction, sampling and analysis of soils from landscaped areas along the US 101/Palo Comado Canyon Road interchange that are subject to excavation would be conducted to determine the level of pesticides/herbicides contamination to identify a proper handling method.

Two service stations within the project limits have recorded underground storage tanks discharges of gasoline into the soil and groundwater. Prior to the project construction or right-of-way take, sampling and analysis of soil and groundwater within in any of the right-of-way areas being transferred to Caltrans including any acquisitions in the area of the gas stations, should be conducted for petroleum hydrocarbons to determine proper handling and disposal requirements.

8.2.5 Biological Resources

Mitigation for permanent impacts to sensitive biological resources (i.e., oak trees) may be required. Such mitigation may include avoidance (i.e., alignment modification) or tree replacement. The removal of any large trees would be scheduled outside the nesting and fledging season (i.e., after August).

8.2.6 Paleontology

Areas of deep excavation (i.e., deeper than 5 feet below surface grade) would be monitored for any vertebrate fossils. If found, the excavation activities would be temporarily halted to allow samples to be collected and analyzed for paleontological potential. Any fossils recovered during mitigation should be deposited in an accredited and permanent scientific institution.

8.2.7 Invasive Species

Exposed soil areas would be replanted with noninvasive vegetation, and equipment inspection and control would be performed to ensure that they are cleaned of potential noxious weed sources (i.e., mud and vegetation) before and after entering the project area. To the extent applicable, any topsoil removed to a depth of 6 inches during construction should be stockpiled onsite for subsequent use as fill needed directly onsite to avoid the spread of existing invasive plant species at the project site.

8.2.8 Community Impacts

Impacts to the community during project construction could be minimized by keeping area residents and business owners informed of the project schedule, and coordinating closely with utility service providers to ensure that minimum disruption would occur. In addition, the contractor would develop a TMP for implementation during project construction to ensure that traffic impacts are minimized.

9. FUNDING

9.1 Capital Cost

The City is sponsoring the preparation of the PSR and intends to provide 100 percent of the funding for the project approval and environmental document (PA/ED); plans, specifications, and estimate (PS&E); and construction of this project from the City's general fund. Table 6 shows the programmed right-of-way capital and construction capital costs for the project by fiscal year.

Table 6 - Programmed Capital Cost

| Fiscal Year | Right | of Way Capital | Const | ruction Capital |
|-----------------|-------|----------------|-------|-----------------|
| FY10-11 - STIP | \$ | _ | | |
| FY10-11 - Local | \$ | - | | |
| FY11-12 - STIP | \$ | - | | |
| FY11-12 - Local | \$ | 1,491,500 | \$ | 4,930,000 |
| FY12-13 - STIP | \$ | - | | |
| FY12-13 - Local | \$ | _ | \$ | 9,866,000 |
| FY13-14 - STIP | \$ | - | | |
| FY13-14 - Local | \$ | _ | \$ | 5,016,000 |
| Total | \$ | 1,491,500 | \$ | 19,812,000 |

See "ready to sign" cooperative agreement for the cooperative features.

9.2 Capital Support Estimate

Table 7 – Capital Support Estimate (Caltrans only)

| | PROJECT SUPPORT COMPONENTS | | | | | | | | | |
|------------------------------|----------------------------|-----|-------|------|-------|-----|----------------------|-------|--------|--|
| | 1 1 | | 1 1 | | 1 9 1 | | Construction 3 Phase | | Total | |
| | Dist | DES | Dist | DES | Dist | DES | Dist | DES | | |
| Estimated PY's | 1.5 | 0.5 | 1.5 | 0.5 | 0.2 | 0 | 1.9 | 0.8 | 6.9 | |
| Estimated PS \$'s (\$1000's) | 240.0 | 80 | 240.0 | 80.0 | 32.0 | | 304.0 | 128.0 | 1104.0 | |
| Total \$'s (\$1000's) | 240.0 | | 240.0 | | 32.0 | | 304.0 | | 1104.0 | |

10. SCHEDULE

Table 8 - Project Schedule

| HQ Milestones | Delivery Date (Month, Day, Year) |
|----------------------------|-------------------------------------|
| Begin Environmental | 03/23/2009 |
| Circulate DED | 06/07/2010 |
| PA/ED | 12/13/2010 |
| Regular Right-of-Way | 04/15/2011 |
| Project PS&E | 06/15/2012 |
| Right-of-Way Certification | 09/15/2012 |
| Ready to List | 09/24/2012 |
| Approve Contract | 11/19/2012 |
| Contract Acceptance | 10/23/2014 |
| End Project | 01/05/2015 |

11. FHWA COORDINATION

No federal-aid funding is anticipated and no FHWA action is required for this project. US 101 is part of the National Highway System. This project does not propose to use federal funds and based on Chapter 2, Section 7, Figure 2 & 3 of the PDPM, FHWA involvement is not expected.

12. VALUE ANALYSIS

A formal Value Analysis (VA) study is required for all federal-aid highway projects on the NHS with a total estimated cost of \$25 million or more. US 101 is part of the NHS and the project is close to \$25 million but the project does not propose to use federal funds. Although a formal VA is not required, efforts have been made to provide alternatives that maximize the value and effectiveness of the project.

13. CONTACTS

Principal contacts for the project are as follows:

CITY OF AGOURA HILLS

Ramiro Adeva Project Manager, City of Agoura Hills (818) 597-7353

CALTRANS

Elaheh Yadegar Chief, Office of Project and Special Studies, Caltrans District 7 (213) 897-9635

Mohammed A. Ahmed

Senior Transportation Engineer, Office of Project and Special Studies, Caltrans District 7 (213) 897-5975

Trilly Nguyen
Project Engineer, Office of Project and Special Studies, Caltrans District 7
(213) 897-7825

Ravi B. Ghate Project Manager, Office of Project Management North, Caltrans District 7 (213) 897-5593

Carlos Montez Environmental Planning, Caltrans District 7 (213) 897-9116 Linda Tong R/W Local Programs (213) 897-2024

Sheik M. Moinuddin Office of Traffic Investigations, Caltrans District 7 (213) 897-7612

CALTRANS HEADQUARTERS (STRUCTURE)

Richard Hartzell Division of Structures, Caltrans Headquarters (916) 227-4113

PARSONS TRANSPORTATION GROUP, INC.

Thomas Sardo Project Manager, Parsons (949) 333-4531

Surafael Teshale Project Manager, Parsons (949) 333-4540

PROJECT REVIEWS

| Field Review | Date |
|--|------|
| District Maintenance | Date |
| District Safety Review | Date |
| Constructability Review | Date |
| HQ Design Coordinator | Date |
| | • |
| Project Manager District Safety Review | Date |

LIST OF ATTACHMENTS

ATTACHMENT A PROJECT LOCATION MAP

ATTACHMENT B TYPICAL CROSS SECTIONS & LAYOUTS

ATTACHMENT C ADVANCE PLANNING STUDY (APS)

ATTACHMENT D TRAFFIC DATA

ATTACHMENT E PROJECT COST ESTIMATE SUMMARY

ATTACHMENT G INITIAL SITE ASSESSMENT (ISA) CHECKLIST

ATTACHMENT H INITIAL SITE ASSESSMENT (ISA) (SEE PROJECT FILE)

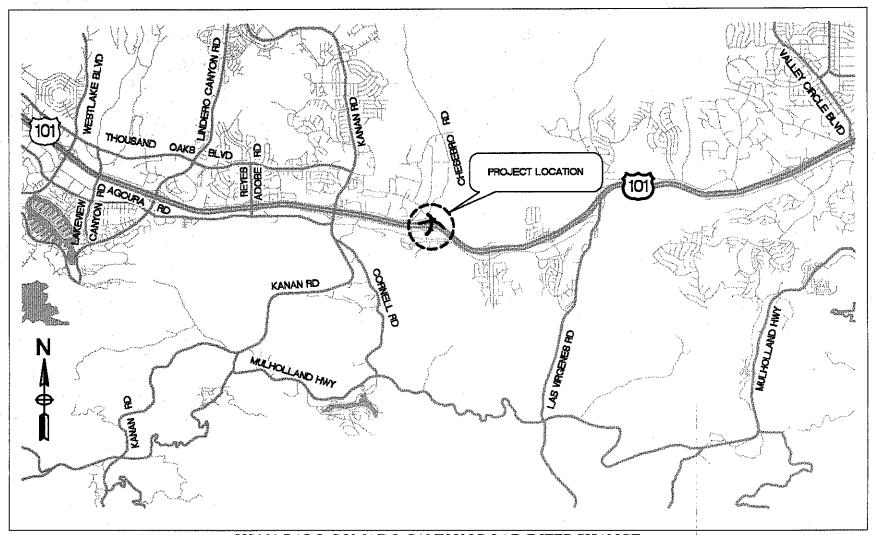
ATTACHMENT I RIGHT-OF-WAY DATA SHEET & EXHIBITS

ATTACHMENT J TRANSPORATION MANAGEMENT PLAN (TMP)

ATTACHMENT K PROJECT WORK PLAN AND SCHEDULE

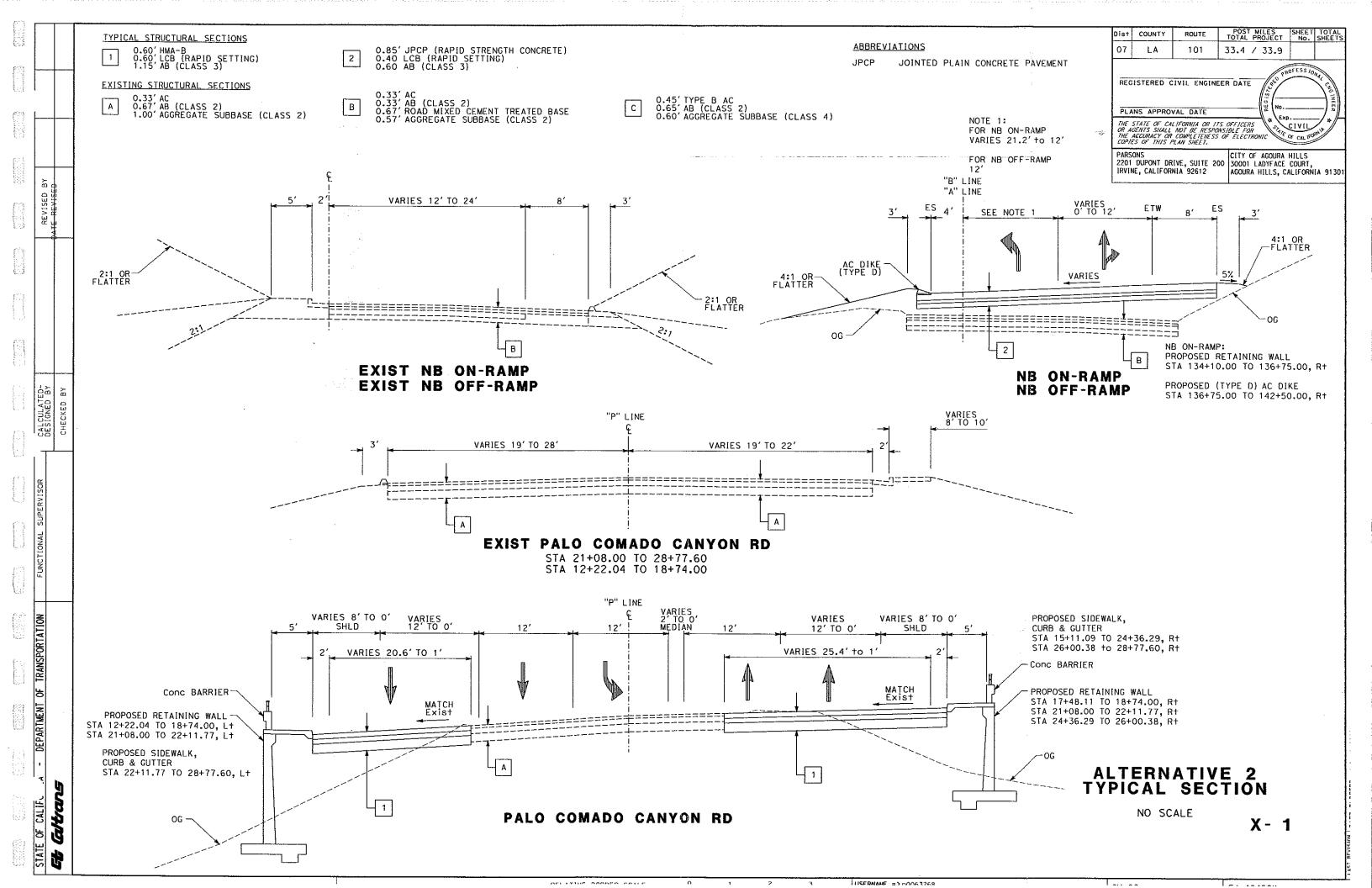
ATTACHMENT L STORM WATER DATA REPORT (PROJECT FILES)

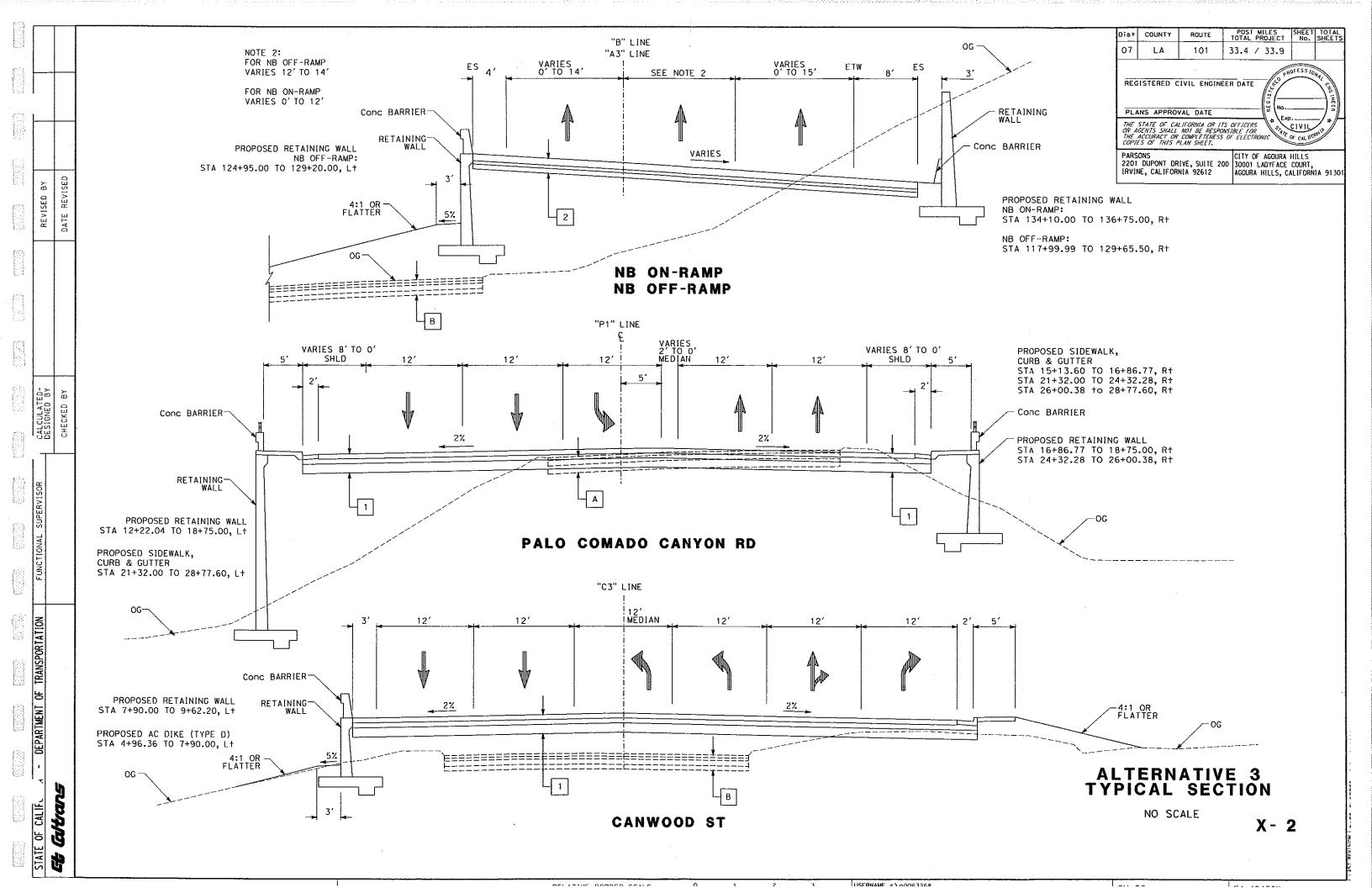
ATTACHMENT A PROJECT LOCATION MAP

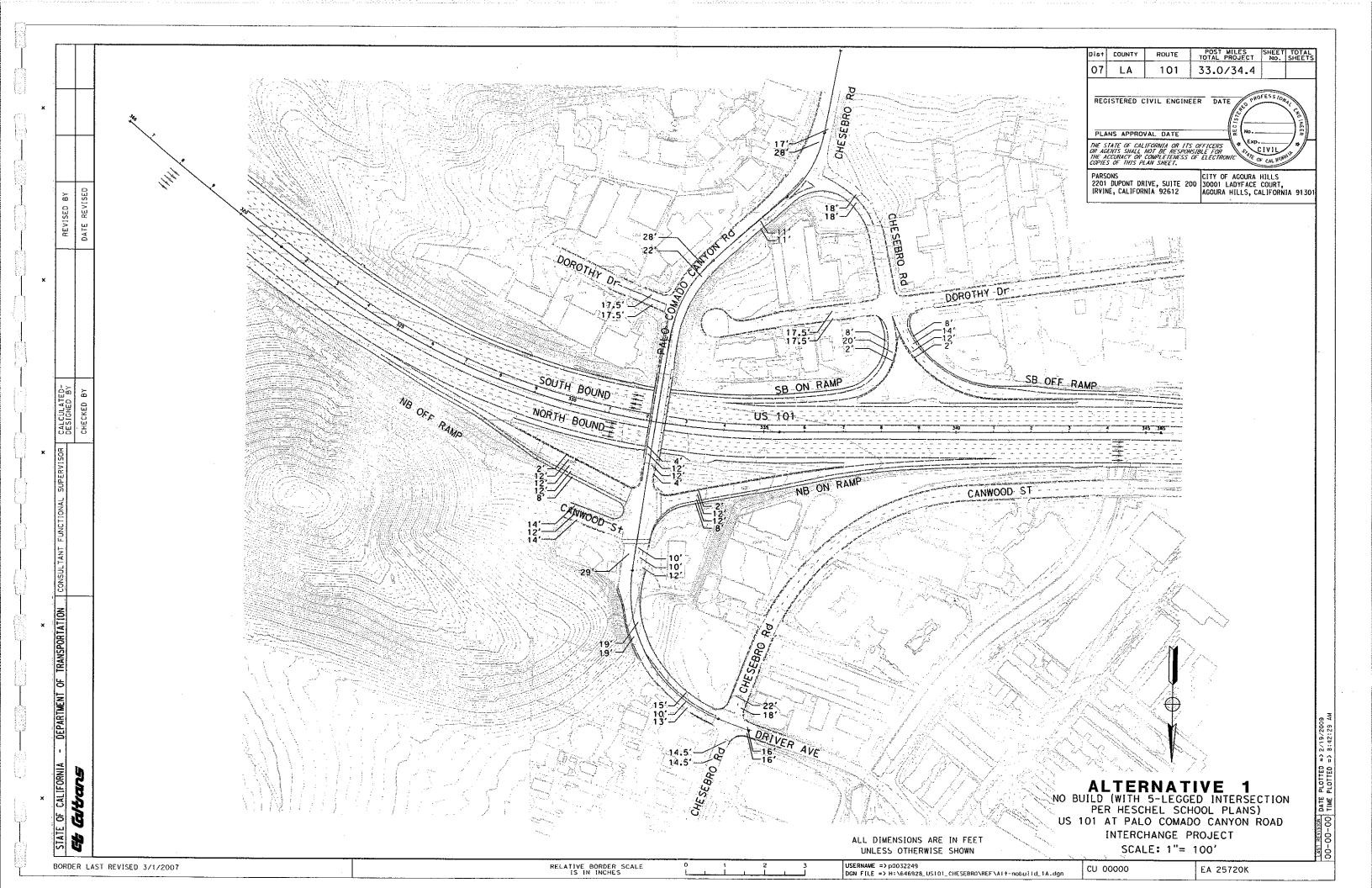


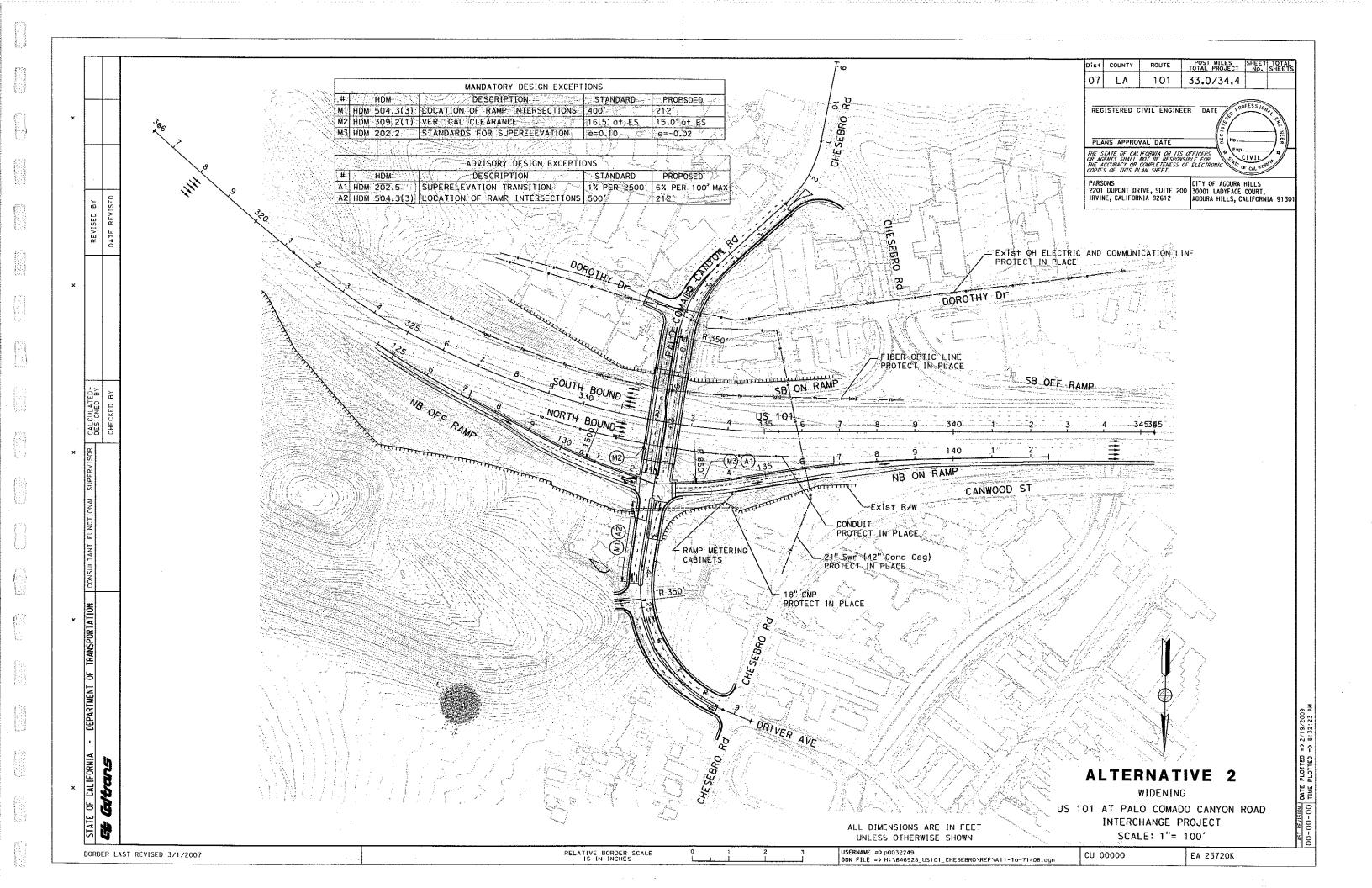
US101 PALO COMADO CANYON ROAD INTERCHANGE LOCATION MAP

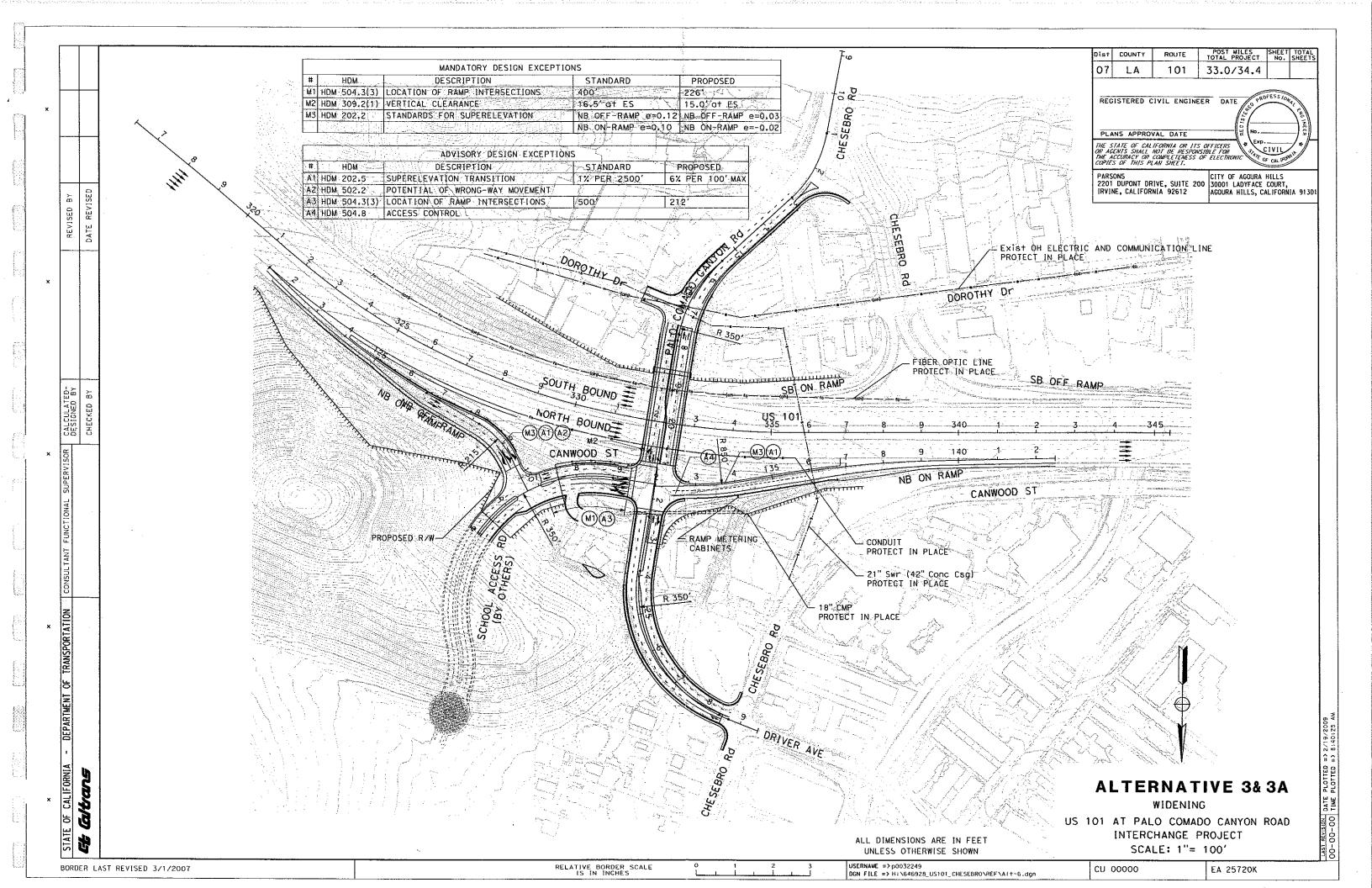
ATTACHMENT B TYPICAL CROSS SECTIONS & LAYOUTS











ATTACHMENT C ADVANCE PLANNING STUDY (APS)

DEPARTMENT OF TRANSPORTATION

Advanced Planning Study Design Memo

| | IDENTIFICATION | | • | | DATE | |
|-----------|------------------|-----------------|-----------|-------------------|--------------|----------------------|
| City of A | goura Hills – Pa | lo Comado Canyo | | November 11, 2008 | | |
| DIST | СО | RTE | Post Mile | CU | EA | DESIGN GROUP |
| 7 | LA | 101 | 33.69 | | | Parsons – Irvine, Ca |
| | <u>1</u> | <u> </u> | | . 1. | CONSTRUCTION | Cost per SF |
| BRIDGE | NAME (S) | | BR NO(S) | MP | COST - \$ | \$/SF |
| Palo Com | ado Canyon Ro | ad OC (Widen) | 53-1678 | | \$2,943,000 | \$254 |
| Palo Com | iado Canyon Ro | ad OC (Replace) | 53-1678 | | \$4,812,000 | \$228 |
| | | | | | | |
| | | - | ···· | | | |
| | | | | | | |
| | | | | | | |

CLIENT: City of Agoura Hills 30001 Ladyface Court Agoura Hills, CA 91301 CONSULTANT: PARSONS

2201 Dupont Drive, Suite 200 Irvine, Ca 92612

(949) 333-4500

City Project Engineer:

Project Manager: Tom Sardo, P.E.

Roadway Manager: Structures Manager:

Project Overview

Parsons Transportation Group (PTG) is currently preparing the Project Study Report (PSR) for the improvements to the Palo Comado Canyon Road Overcrossing at the U.S. 101 Freeway with the City of Agoura Hills within the County of Los Angeles. This project will include four APS alternatives; Alternative 1 will be "no build"; Alternatives 2 and 3 will include widening to the east and west side of the existing Palo Comado Canyon Road Overcrossing; and Alternative 3A will include an entire bridge replacement. Alternatives 2, 3, and 3A will accommodate both the existing and future traffic conditions and provide for increased safety. Note that for Alternatives 2 and 3, there will be no change in the APS, only in the ramp configuration, which will not affect the layout or type of the bridge widening. In addition to the bridge widening/replacement, the project will also include minor ramp and signal modifications, along with other related changes to each respective alternative.

As-Built Information

Palo Comado Canyon Road Overcrossing is a four-span bridge with precast prestressed "I" girders, having a total length of 234'-0" and depth of 5'-1 ½". The structure provides a 12'-0" travel way and 4'-0" shoulder in each direction, as well as a 5'-0" sidewalk located on the west side of the bridge. The original structure was built in 1963, and was repaired with one new concrete "I" girder on span 3 in 2006. All foundations are supported on 45-ton Cast in Drilled Hole (CIDH) piles.

Alternatives 2 and 3 (Bridge Widening)

Structure Type

The new Palo Comado Canyon Road Overcrossing will provide two 12'-0" travel lanes, one 8'-0" shoulder and 5'-0" sidewalk in each direction with a 14'-0" center median. The widened structure will match in kind with precast prestressed "T" girders on diaphragm abutments. Intermediate supports will consist of multi-column bents. All foundations will consist of pile caps on CIDH piles as recommended in the Preliminary Foundation Report prepared by Group Delta Consultants. Concrete Barrier Type 26 will be provided with a chain link fence placed on top to act as safety barriers for pedestrians on Palo Comado Canyon Road. A 30-ft structure approach slab will be used on the approaches and rock cobble slope paving will be utilized in front of each abutment to match the adjacent bridge aesthetics scheme.

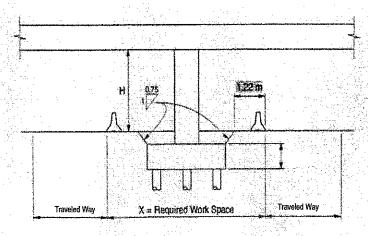
The structure type shown is proposed to match in kind with the existing, limit structure depth and maintain a minimum vertical clearance no less than the existing. Other viable alternatives may be researched further during the Type Selection process.

Minimum Vertical Clearance

The minimum vertical clearance is 15'-0" located in the northeast corner of the structure over the northbound US-101 lane at the edge of traveled way. The proposed widening is designed to maintain at least a minimum existing clearance of 15'-0" to not worsen the existing condition. In order to do this, the proposed widening needs to be shallower than the existing superstructure. By utilizing higher strength concrete, closer girder spacing, and modifying the prestressing cable paths for the precast girder will enable the use of a shallower girder depth.

Construction Clearance and Traffic Control for Widening Alternatives

For construction at or around the bents, the construction of the footing and column in the median will require a minimum working space of 18'-0" feet between the traffic faces of the temporary railing, as shown below. Construction of falsework bents will not be required due to the use of precast, prestressed concrete I-beam girders. The existing median is 36'-0", which is wide enough to conduct the operation safely without any hindrance to the traveled way.



Footing and Column Construction

When erecting girders over traveled ways, a temporary freeway closure will be required during the erection process.

Additional Comments for Widening Alternatives

As previously discussed, the existing Palo Comado Canyon Road Overcrossing has a non-standard minimum vertical clearance over US-101. A cast-in-place, prestressed concrete box girder bridge would not be feasible to widen the existing bridge because of vertical clearance restrictions and the limited space required for falsework to construct the widening. The proposed precast, prestressed I-girder Bridge is the most desirable option and will eliminate the need for falsework.

The existing bridge has been seismically retrofitted with hinge restrainers in 1986. In 1991, the bridge was screened out of Caltrans' seismic retrofit program. The seismic retrofit was analyzed for a peak rock acceleration of 0.4g according to Caltrans 1996 Hazard Map. However, the map has been revised and now reflects a PRA of 0.5g. Recently, the subject bridge was flagged for re-analysis to determine if it should be placed back into the seismic retrofit program for a more in-depth seismic analysis. Under a future design contract, the design engineer may wish to consider a small contingency for a seismic analysis and retrofit. A qualitative seismic review has been performed. The widening will increase the overall seismic mass of the existing superstructure. The addition of hinge restrainers (existing) will prevent potential unseating of spans upon the relatively short seat supports. The existing bridge has relatively short spans founded upon multicolumn bents, providing a degree of redundancy. Further, the bridge is not skewed at the supports. Therefore the bridge does not appear to require any additional seismic retrofit as a result of the widening. However, due to the increase in PRA and that Caltrans has placed the bridge back into the seismic screening program, it is recommended that further seismic analysis is warranted. The advanced planning study reflects this potential cost.

The aesthetics for the proposed widening will match that of the other bridges in the immediate area and to the City's requirements. The bent cap for the proposed widening will maintain a cantilevered portion adjacent to the existing bent cap for an appearance of one continuous structure.

Alternative 3A (Bridge Replacement)

Structure Type

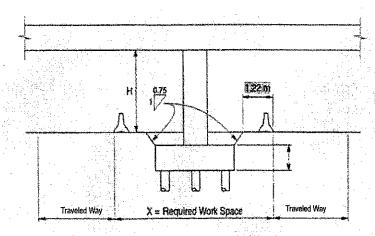
The new Palo Comado Canyon Road Overcrossing will provide four 12'-0" travel lanes, two 8'-0" shoulders, two 5'-0" sidewalks and a center median. The new structure will be in the same location as the existing, comprised of the same span lengths (36'-0", 90'-0", 78'-0" and 30'-0") and total length (234'-0"). The superstructure will consist of precast prestressed "I" girders on seat type abutments. Intermediate supports will consist of multi-column bents. All foundations will consist of pile caps on CIDH piles as recommended in the Preliminary Foundation Report prepared by Group Delta Consultants. Concrete Barrier Type 26 will be provided with a chain link fence placed on top to act as safety barriers for pedestrians on Palo Comado Canyon Road. A 30-ft structure approach slab will be used on the approaches and rock cobble slope paving will be utilized in front of each abutment to match the adjacent bridge aesthetics scheme.

Minimum Vertical Clearance

The proposed minimum vertical clearance will be approximately 16'-6" in the northeast corner of the structure over the northbound US-101 lane at the edge of traveled way. This meets the Caltrans criteria provided in Caltrans Bridge Design Aids 10-4.

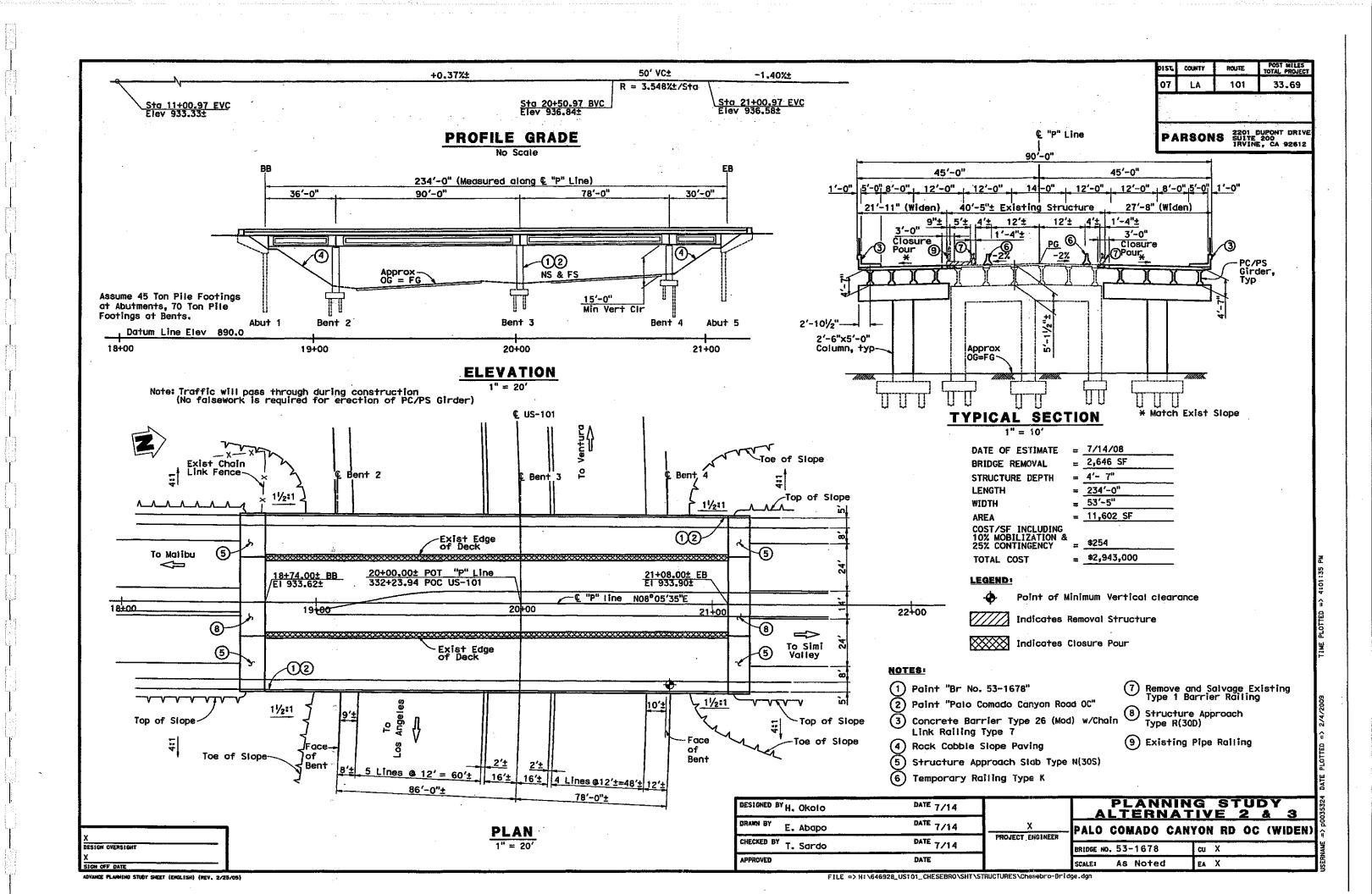
Construction Clearance and Traffic Control for Replacement Alternative

For construction at or around the bents, the construction of the footing and column in the median will require a minimum working space of 22'-0" feet between the traffic faces of the temporary railing, as shown below. The existing median is 36'-0", which is wide enough to conduct the operation safely without any hindrance to the traveled way.



Footing and Column Construction

When erecting girders over traveled ways, a temporary freeway closure will be required during the erection process.



| S-D-0016 (REV TRUCTURE | | BR. NO. | 4. | RCVD. BY | | ESTIMATING (| GROUP | |
|---------------------------|--------------------------------------|----------------|-----------------|--------------------|--------------------|--------------|--------------|---|
| | | | | | | | | |
| | Overcrossing (Replace Existing) | 53-16 | | DTF: 404 | D.M. 00.00 | IN I | | |
| TPE : Precasi P ENGTH | restressed Concrete Girder | DIST. 07 90 | CO LA = AREA | RTE. 101 21,060 | P.M. 33.69 SQFT | Ю | | |
| ESIGN SECTIO | | | QUANTITIES | | H. Okolo | DATE 8/4/08 | ESTIMATE NO. | 1 |
| ROJECT INCLL | | (C) | | CHECKD, BY | VI. OROID | DATE DATE | PRICED BY | |
| ND | ROADWORK | | CHARGE UN | | | DATE | _ · | |
| 140 | CONTRACT ITEMS | | UNIT | QUANTITY | PRICE | 1 | COST INDEX | |
| · | | | | | | | AMOUNT | |
| | ORARY RAILING (TYPE K) | | LF | 588 | \$20.00 | | \$11,760 | - |
| | SE REMOVAL | | L\$ | 1 | \$190,000.00 | | \$190,000 | |
| | CTURE EXCAVATION (BRIDGE) | | CY | 787 | \$75.00 | | \$59,025 | |
| 4 STRU | CTURE BACKFILL (BRIDGE) | | CY | 387 | \$75.00 | | \$29,025 | |
| 1 | CH CAST-IN-DRILLED-HOLE CONCRETE P | ILING | LF | 4,440 | \$125.00 | | \$555,000 | |
| 6 PRES | TRESSING PRECAST GIRDER | | LS | 1 | \$20,000.00 | | \$20,000 | |
| 7 STRL | CTURAL CONCRETE, BRIDGE FOOTING | | CY | 172 | \$500,00 | | \$86,000 | |
| 8 STRU | CTURAL CONCRETE, BRIDGE | | CY | 1,320 | \$750.00 | | \$990,000 | |
| 9 STRL | CTURAL CONCRETE, APPROACH SLAB (T | YPE N) | CY | 200 | \$650.00 | | \$130,000 | |
| 10 FURI | IISH PRECAST PRESTRESSED CONCRETE | GIRDER (5-10M) | EA | 28 | \$6,000.00 | | \$168,000 | |
| | IISH PRECAST PRESTRESSED CONCRETE | | EA | 28 | \$15,000.00 | ļ | \$420,000 | |
| 12 ERE(| T PRECAST PRESTRESSED CONCRETE G | SIRDER | EA | 56 | \$2,500.00 | | \$140,000 | |
| | SEAL (MR = 2°) | | ĹF | 180 | \$75.00 | | \$13,500 | |
| 14 BAR | REINFORCING STEEL (BRIDGE) | | LB | 290,680 | \$1.50 | | \$436,020 | |
| 15 SLOF | E PAVING (CONCRETE) | | CY | 117 | \$600.00 | ļ <u>.</u> | \$70,200 | |
| | N LINK RAILING (TYPE 7) | | LF | 588 | \$100.00 | | \$58,800 | |
| 17 CON | CRETE BARRIER (TYPE 26) | | LF | 588 | \$170.00 | | \$99,960 | |
| 18 REM | OVE AND SALVAGE EXISTING TYPE 1 BAR | RIER RAILING | LF | 588 | \$20.00 | | \$11,760 | |
| 19 REM | OVE AND SALVAGE EXISTING PIPE RAILIN | <u>G</u> | LF | 294 | \$35.00 | · | \$10,290 | |
| | | | ļ | | | | | |
| - | | | | ļ | | | | |
| | | · | 1 | | | | | |
| | | | | 1 | | | | |
| | | | 0.1570711 | 1 | 1 | | | |
| OUTING | | | SUBTOTAL | | | | \$3,499,340 | |
| ROUTING | an erezion | • | MOBILIZATI | | 10% | | \$349,934 | |
| | SN SECTION | | | BRIDGE ITEMS | | | \$3,849,274 | |
| | SN A SUPERVISOR | | CONTINGE | | 25% | <u> </u> | \$962,319 | |
| | SN B SUPERVISOR | | BRIDGE TO | | | | \$4,811,593 | |
| 4. PLAN | NING | | COST PER | 5U.F1. | | | \$228 | |
| . — | | _ | | | | | \$0 | |
| | | | | | | | \$0 | |
| | | _ | CDAND YOU | | | | \$0 | |
| | | | GRAND TO | | CAV. | | \$4,812,000 | |
| <u>-</u> | ····· | **** | LOK BODGE | ET PURPOSES - | SAT | L | | |

| DS-D-0016 (REV. 5/93) STRUCTURE | BR. NO. | | RCVD, BY | | ESTIMAT | ING GROUP |
|---|-------------|---------------------------------------|----------------------------|-------------|--------------|---------------------------------------|
| , morone | | | 1,012.2 | | | , , , , , , , , , , , , , , , , , , , |
| Chesebro Road Overcrossing (Widen) | | 3-1678 | | <u> </u> | IN | |
| TYPE : Precast Prestressed Concrete Girder | DIST. 07 | CO LA | RTE. 101 | P.M. 33,69 | OUT | |
| ENGTH 234 x WIDTH | 49,58 | = AREA | 11,602 | SQFT | DATE 0 | MAN COTINATE NO |
| DESIGN SECTION Parsons Transportation Group | - | QUANTITIE | | H. Okolo | DATE 8 | |
| PROJECT INCLUDES1 STRUCT | | | S CHECKD. BY NIT AND EA | | DATE _ | PRICED BY |
| NDROADW | AKK | | 1 | | Г | COST INDEX |
| CONTRACT ITEMS | · | UNIT | QUANTITY | PRICE | | AMOUNT |
| 1 BRIDGE REMOVAL (PORTION) | | CY | 145 | \$100,00 | | \$14,500 |
| 2 STRUCTURE EXCAVATION (BRIDGE) | | CY | 267 | \$92.00 | | \$24,564 |
| 3 STRUCTURE BACKFILL (BRIDGE) | | CY | 140 | \$100.00 | <u> </u> | \$14,000 |
| 4 STRUCTURAL CONCRETE, BRIDGE FOOTI | NG | CY | 52 | \$765.00 | | \$39,780 |
| 5 STRUCTURAL CONCRETE, BRIDGE | | CY | 776 | \$916,00 | ļ | \$710,816 |
| 6 STRUCTURAL CONCRETE, APPROACH SL | AB (TYPE N) | CY | 125 | \$725.00 | | \$90,625 |
| 7 FURNISH PRECAST PRESTRESSED CONC | RETE GIRDER | EA | 28 | \$15,000,00 | - | \$420,000 |
| 8 ERECT PRECAST PRESTRESSED CONCRI | TE GIRDER | EA | 28 | \$3,000.00 | | \$84,000 |
| 9 JOINT SEAL (MR = 2") | | LF | 112 | \$75.00 | | \$8,400 |
| 10 BAR REINFORCING STEEL (BRIDGE) | | LB | 171,155 | \$1.80 | | \$308,079 |
| 11 SLOPE PAVING (CONCRETE) | | CY | 117 | \$690.00 | | \$80,730 |
| 12 CHAIN LINK RAILING (TYPE 7) | | LF LF | 588 | \$85,00 | | \$49,980 |
| 13 CONCRETE BARRIER (TYPE 26) | | LF | 588 | \$170.00 | | \$99,960 |
| 14 SEISMIC RETROFIT | | LS | 1 | \$50,000.00 | | \$50,000 |
| | | | | | \vdash | |
| | | · · · · · · · · · · · · · · · · · · · | | | | |
| | | + | | | | |
| | | | | | <u> </u> | |
| | | | 1 | | | |
| | | | | | - | |
| | | SUBTOTAL | | 1 . | | \$1,995,434 |
| ROUTING | | MOBILIZAT | | 10% | | \$199,543 |
| 1. DESIGN SECTION | | | BRIDGE ITEMS | | | \$2,194,977 |
| 2. DESIGN A SUPERVISOR | - | CONTINGE | | 25% | | \$548,744 |
| 3. DESIGN B SUPERVISOR | | BRIDGE TO | | 1 10.00 | | \$2,743,722 |
| 4. PLANNING | | COST PER | SQ. FT. | | | \$236 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| | | | | | . \$0 | |
| | GRAND TO | TAL | | \$2,744,000 | | |
| | | FOR BUDG | ET PURPOSES - | | | |
| | | COMMENTS | 3 | | | |

Consultant Prepared Advance Planning Study (APS) Checklist Sheet 1 of 2

| 🚐 المممم المالية | | | | Phone No: | 1 | | | | |
|---------------------------|--|-------------------|---------------------|-----------------------|---|--|--|--|--|
| 22 | PARSONS 201 Dupont Ave., Ste. 200 vine, CA 92612 | | 9 | 949-333-4500 | | | | | |
| Designed by: | | | - F | Phone No: | | | | | |
| Heather Okolo | | | (| 949-333-4521 | | | | | |
| EA: | County: | Rte: | F | PM | | | | | |
| | Los Angeles | 101 | | 33.69 | | | | | |
| Project Description: | | | <u> </u> | | | | | | |
| Improvements and | d widening of the Palo Coma | ado Canyon R | Road Overcros | ssing over U.S. Route | | | | | |
| 101 | | | | • | | | | | |
| Bridge No(s): | Bridge Name(s): | | | · | | | | | |
| 53-1678 | Palo Comado Canyon Roa | ad Overcrossi | ng | | . | | | | |
| | | | Ū | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | • | | | | | |
| Total number of bridges i | in project: 1 | APS Alternative L | etter or Number (if | more than one): N/A | | | | | |
| Purpose of this APS: | Initial APS Cost & Feasibili | ty 🗵 | Revised scope | ☐ Update cost | | | | | |

Part A Items to collect and considerations prior to beginning the APS

All items listed in Part A are to be made available and submitted if requested by the Liaison Engineer. (Mark N/A if not applicable)

| N/A | Preliminary profile grade of proposed structure. |
|-------------|--|
| \boxtimes | Typical section of the proposed structure. (Including barrier type, sidewalks, cross slope %, etc.) |
| \boxtimes | Grades or spot elevations of roadway below the structure. |
| \boxtimes | Typical section of roadway below the structure. (Including shoulders, gutters, embankment slope.) |
| N/A | Site map: including horizontal alignment of new structure and the roadway below, topo, contours, etc |
| \boxtimes | Stage construction or detour plan for traffic <u>on the structure.</u> (number of lanes to remain open, Temp Railing, etc.) |
| N/A | Stage construction or detour plan for the roadway <u>below the structure</u> . (falsework openings for each stage and any restrictions.) |
| \boxtimes | "As Built" plans for existing structures. |
| N/A | Future widening plans of upper and lower roadway (verify with Route Concept Report). |
| | Site aerial photograph (at the proposed structure). |
| N/A | Environmental and/or permit requirements (areas of potential impact, construction windows, etc.) |
| \boxtimes | Overhead and underground utility plans |
| \boxtimes | Any other information that you feel is necessary to complete the study. (Other concerns that may affect the APS: local agency requirements such as aesthetics, improvements in vicinity of structure, aircrace usage other obstructions, etc.) |

Consultant Prepared Advance Planning Study (APS) Checklist Sheet 2 of 2

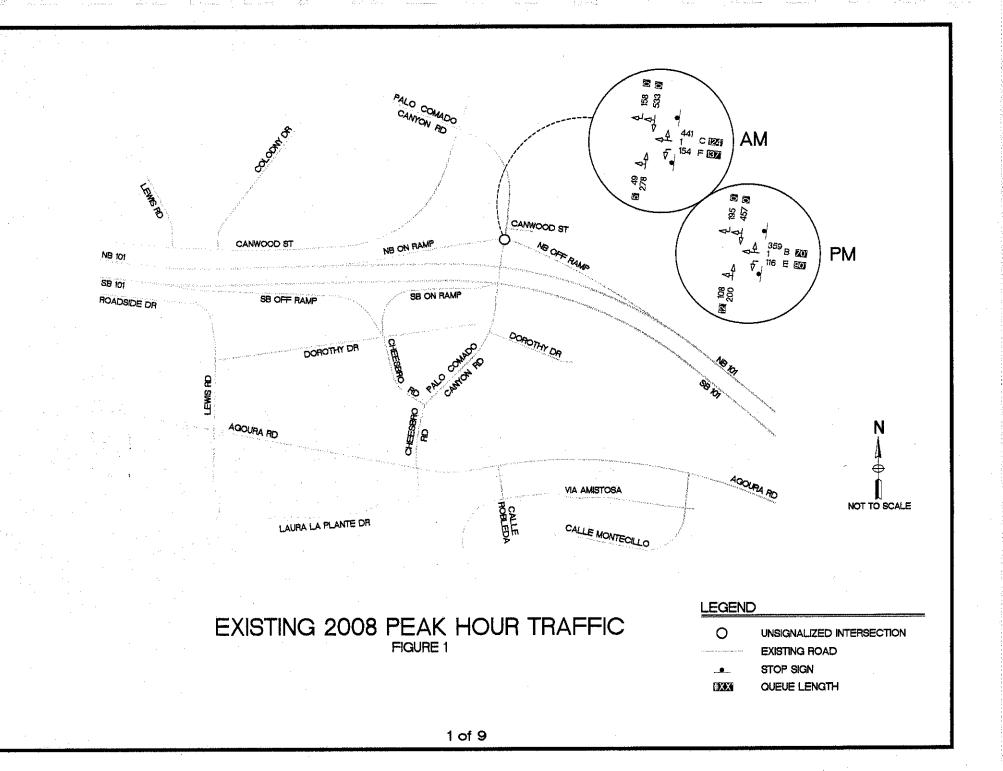
Part B Considerations during the APS design and cost estimate preparation

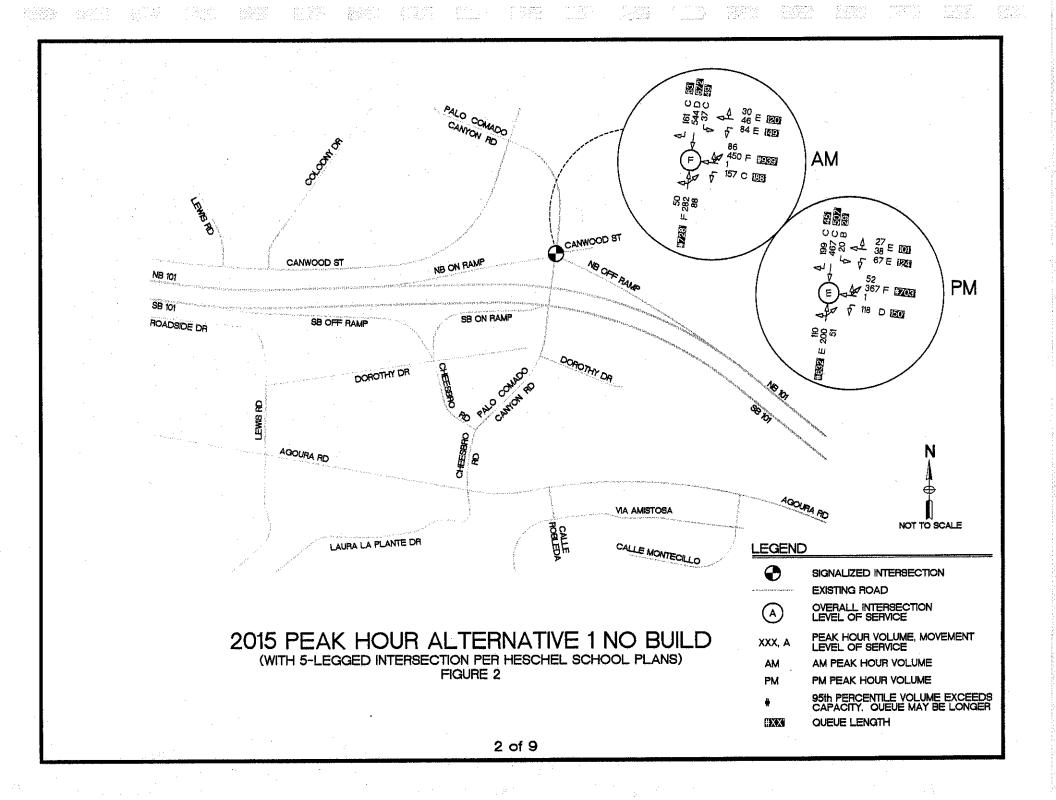
| 1. | Has this project been discussed with: | the OSFP Liaison Engineer? the Caltrans District Project Manager? the roadway consultant? | Yes | ⊠ N ⊠ N ⊠ N | o 🔲 |
|-----|---|---|-------------------|-------------------|------|
| 2. | Have the Caltrans Structures Maintenance of the records recommend any work for the | | | ⊠ N ⊠ N | |
| 3. | Are there special aesthetic consideration | s? | Yes | □ N | o 🛛 |
| 4. | (Widenings and Modifications) Has this project been reviewed for seism Are seismic retrofit requirements included | | Yes Yes | ⊠ N □ N | |
| 5. | Any special Railroad requirements? Shoofly required? Cost of shoofly included as a separate it | tem in the project cost estimate? | Yes Yes Yes | □ N □ N □ N | |
| 6. | Any special foundation requirements, in such as Type A, Type D, and/or hazarde | cluding scour critical work, special excavation ous or contaminated material? | Yes | □ N | lo 🛛 |
| 7. | Any special construction requirements, | including limited site accessibility or seasonal v | work? Yes | □N | lo 🛛 |
| 8. | Other items to be included in the cost su adjacent retaining walls? | uch as slope paving, approach slabs, and/or | Yes | ⊠ N | lo 🗆 |
| 9, | Remove existing bridge? Total Deck Area: 2646 Sq Ft | | Yes | ⊠ N | lo 🗆 |
| 10. | Any other unusual or special requirement | nts? | Yes | □ N | lo 🗵 |
| 11. | important assumptions, discussions, de- | ed Design Memo to summarize and document cisions, unusual items, local agency requireme sinity of the structure, airspace usage, bove. Summary attached? | | ⊠ N | lo 🔲 |
| | | | | | |
| | signer: (Printed Name) eather Okolo | Dealgner's Signature: MMW MU | | ate: //11/2 | 800 |

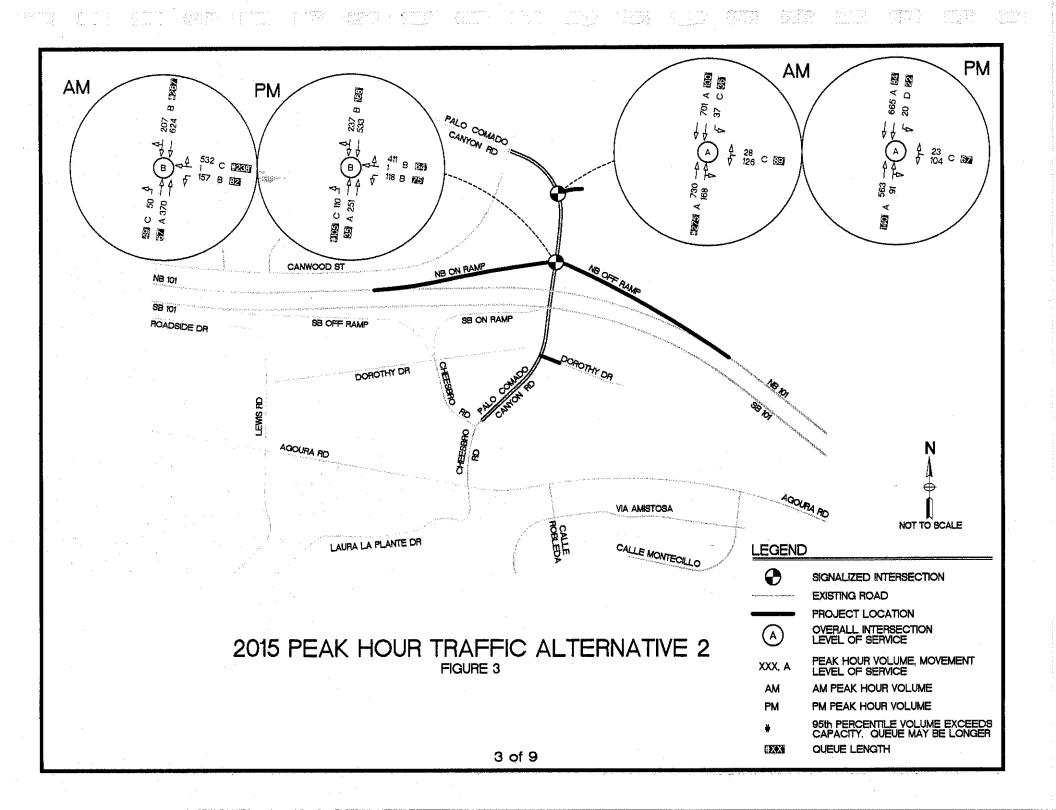
ATTACHMENT D

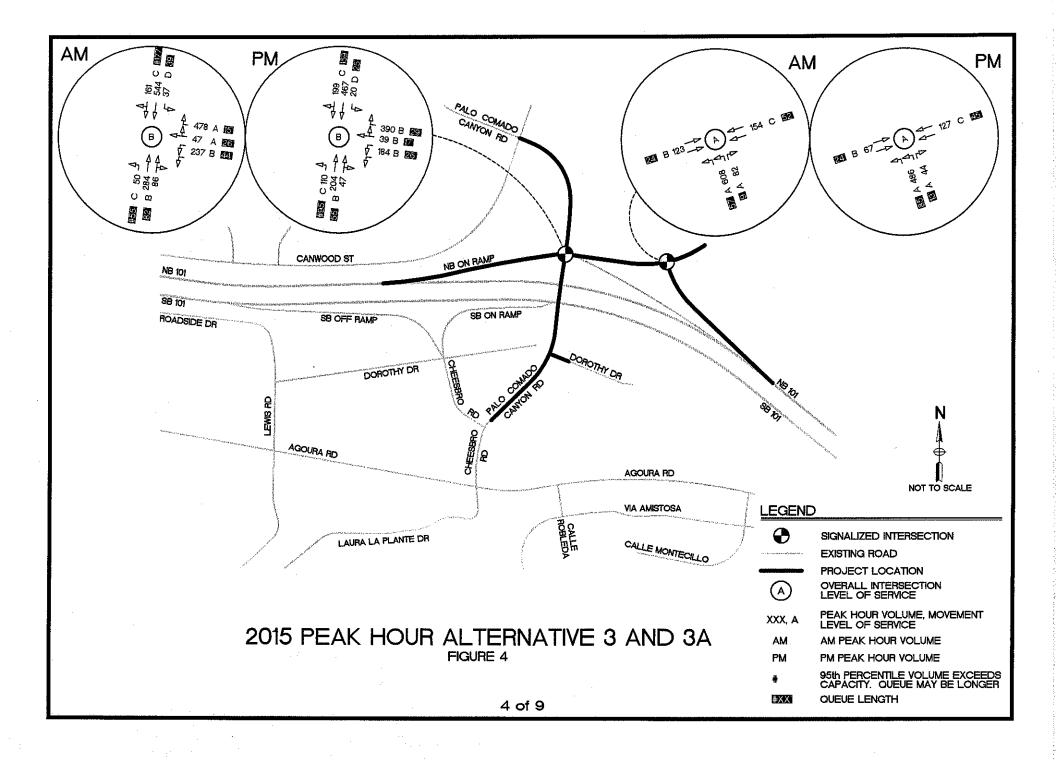
TRAFFIC DATA

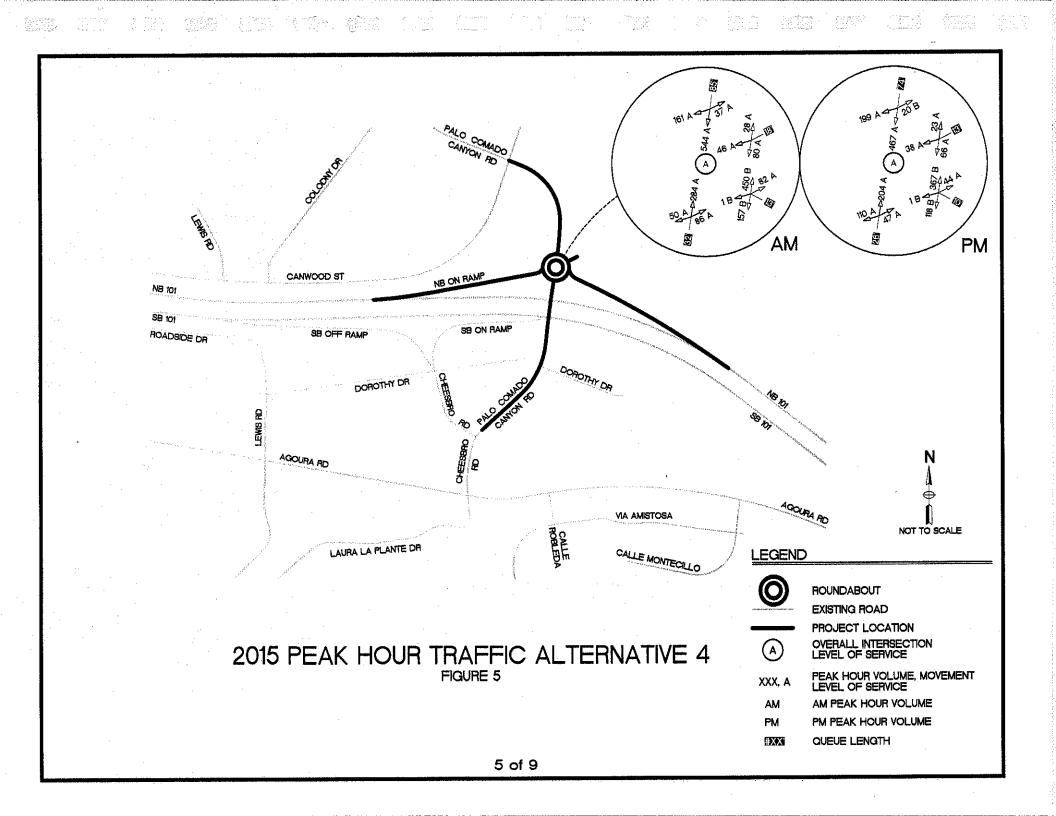
- 1. Intersection Level of Service and Traffic Volume Exhibits
- 2. Traffic Accident Data US 101/Palo Comado Canyon Road Interchange

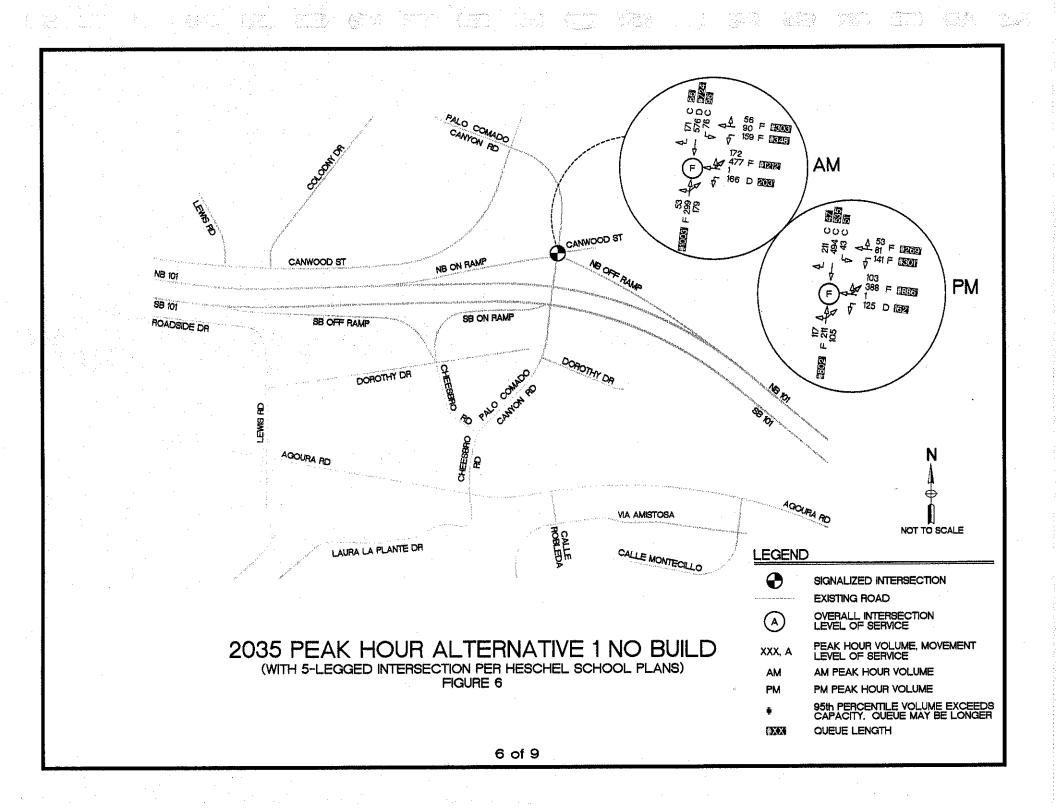


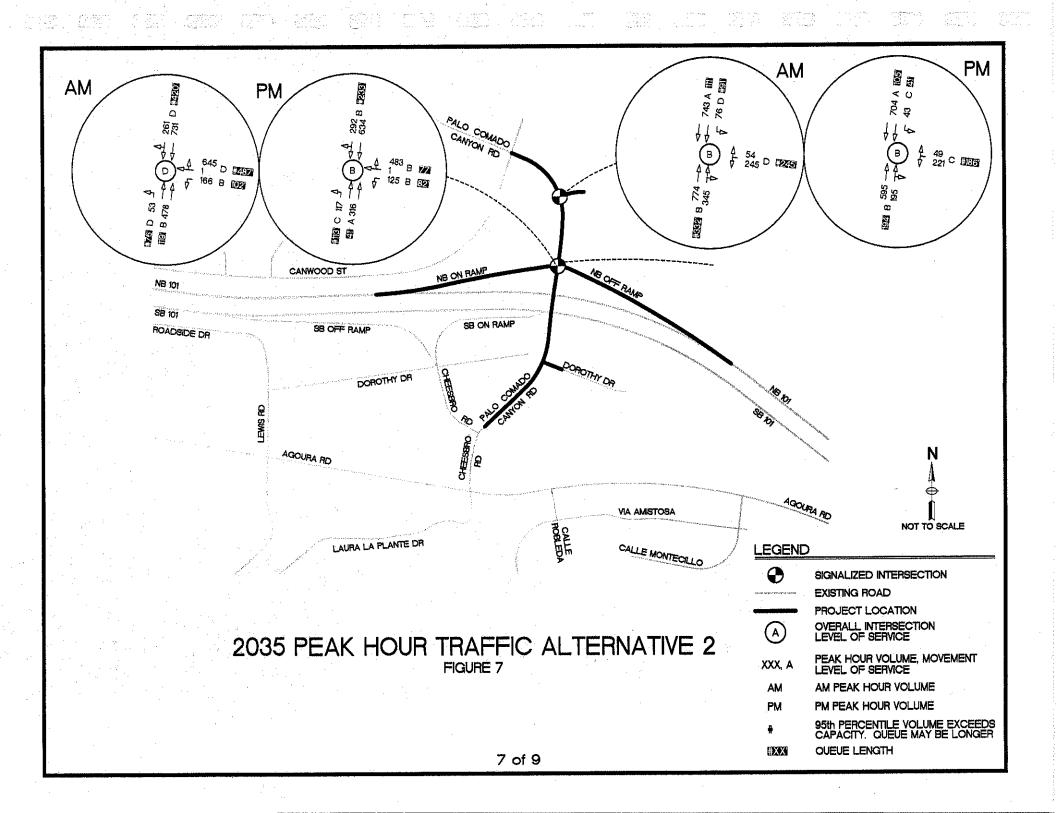


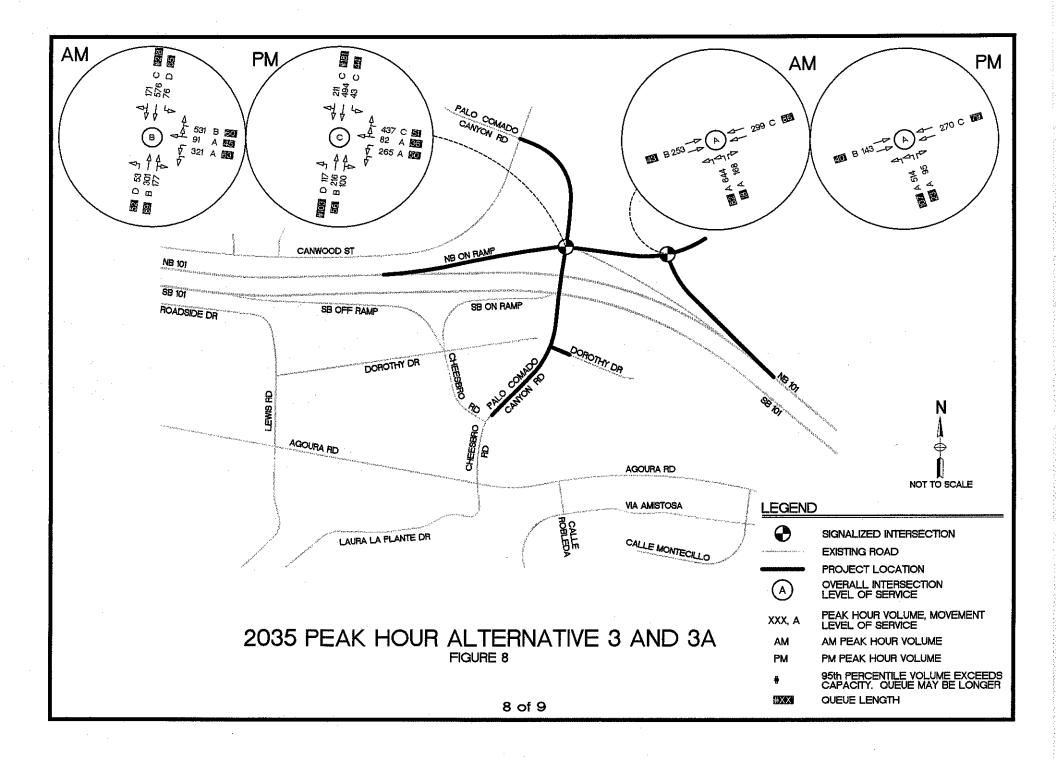


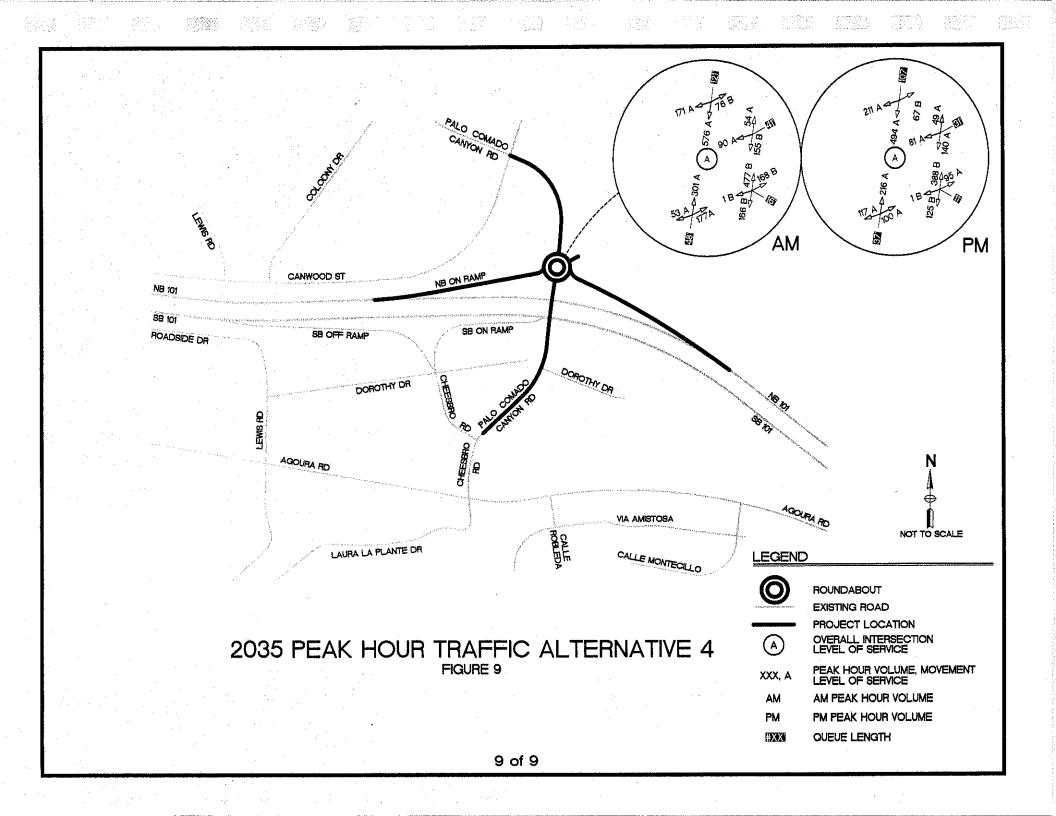












California Department of Transportation Table B - Selective Accident Rate Calculation

Page 1

| | | Rate Group | | | lo. of | of Accidents. N | | | ince | Kld | Kid Main i | Total MV+ or | | Actual | Accident Rates | | rage | |
|--|--------|---------------|-----|-----|--------|--------------------|-----|---|------|--------|-------------------|-----------------|-------|--------|----------------|-------|------|------|
| Location Description | | (RUS) | Tot | Fat | Inj | F+I | Veh | | Dark | ‡nj | X-St | MVM | Fat | F+l | Tot | Fat | F+l | Tot |
| 07 LA 101 033.618 101/NB OFF TO CHEESEBRO RD 0001-0001 2005-01-01 2007-12-31 | 36 mo. | R 10 U | 11 | 0 | 4 | 4 | 9 | 0 | 5 | 0 7 | 5. 2 ,0 | | 0.000 | .70 | 1.92 | 0.005 | .61 | 1.50 |
| 07 LA 101 033,784 101/SB ON PALO COMADO CYN 0001-0001 2005-01-01 2007-12-31 | 36 mo. | FI 32 U | 1 | 0 | . 1 | . 1 | 1 | 1 | 0 | 0 | 5.3 0, | 5.77 + | 0.000 | .17 | .17 | 0.002 | .19 | .55 |
| 07 LA 101 033.798 101/NB ON FR CHEESEBRO RD 0001-0001 2005-01-01 2007-12-31 | 36 mo. | R 12 U | 2 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 2.8 | 3.07 + | 0.000 | .33 | .65 | 0.002 | .32 | .80 |
| 07 LA 101 033,893 101/SB OFF TO CHEESEBRO RD 0001-0001 2005-01-01 2007-12-31 | 36 mo. | R 26 U | 2 | 0 | 1 | 1 | Ó | 0 | , 1 | O 1 | 2,7 ,0 | 2.98 + | 0.000 | .34 | ,67 | 0.005 | .39 | 1.15 |

11/25/2008 01:13 PM

TASAS SELECTIVE RECORD RETRIEVAL TSAR • PARTY SUMMARY All ramp acc. for LA 101, PM 33.4/34.0. For the time period of 01/01/05-12/31/07. T. Duong. Log# 791.

| < | | PARTY TYPE> | <- 1 | MOVEMEN! | PRECEDING COLLISION -> | | < OTHER ASSOCIATED FACTORS> | | | | | | |
|--------|-----------------------|-----------------------------|--------|----------|---------------------------|--------|-----------------------------|------------|-----------------------------------|--|--|--|--|
| | | | | | | #1 | | #2 | | | | | |
| NUMBER | PCT | CODE | NUMBER | PCT | CODE | NUMBER | PCT | NUMBER | PCT CODE | | | | |
| 14 | 87.5 | A-PASNGR CAR/STA WAGON | . 9 | 56.3 | A-STOPPED | 0 | 0.0 | 0 | 0.0 1-INFLUENCE ALCOHOL | | | | |
| 0 | 0.0 | B-PASNGR CAR W/TRAILER | 11 | 68.8 | B-PROCEDED STRAIGHT | 1 | 6.3 | 0 | 0.0 2-FOLLOW TOO CLOSE | | | | |
| 2 | | C-MOTORCYCLE | 1 | 6.3 | C-RAN OFF ROAD | 0 | 0.0 | Ó | 0.0 3-FAILURE TO YIELD | | | | |
| 2 | | D-PICKUP/PANEL TRUCK | 0 | 0.0 | D-MAKING RIGHT TURN | 1 | 6.3 | 0 | 0.0 4-IMPROPER TURN | | | | |
| 0 | | E-PICKUP/PANEL W/TRAILER | 5 | 31.3 | E-MAKING LEFT TURN | 2 | 12.5 | Ö | 0.0 5-SPEEDING | | | | |
| 0 | and the second second | F-TRUCK/TRUCK TRACTOR | ō | 0.0 | F-MAKING U TURN | 0 | 0.0 | ō | 0.0 6-OTHER VIOLATIONS | | | | |
| . 2 | | G-TRUCK/TRACTOR & 1 TRAILER | 0 | 0.0 | G-BACKING | ō | 0.0 | Ö | 0.0 A-CELL PHONE* (INATTN) | | | | |
| . 0 | 0.0 | 2-TRUCK/TRACTOR & 2 TRAILER | 0 | 0.0 | H-SLOWING, STOPPING | 0 | 0.0 | 0 | 0.0 B-ELECTRC EQUIP*(INATTN) | | | | |
| . 0 | 0.0 | 3-TRUCK/TRACTOR & 3 TRAILER | 0 | 0.0 | I-PASS OTHER VEHICLE | 0 | 0.0 | o | 0.0 C-RADIO/CD/HDPHN*(INATTN) | | | | |
| 0 | | 4-SINGLE UNIT TANKER | 0 | 0.0 | J-CHANGING LANES | ۵ | 0.0 | 0 | 0.0 D-SMOKING* (INATIN) | | | | |
| ō | | 5-TRUCK/TRA & 1 TANK TRALR | 0 | 0.0 | K-PARKING | 1 | 6.3 | ŏ | 0.0 E-VISION OBSCUREMENT | | | | |
| ۵ | | 6-TRUCK/TRA & 2 TANK TRALR | 0 | 0.0 | L-ENTER FROM SHLDR | 1 | 6.3 | ŏ | 0.0 F-INATTENTION - OTHER | | | | |
| n | 0.0 | H-SCHOOL BUS | 0 | 0.0 | M-OTHER UNSAFE TURN | 0 | 0.0 | ő | 0.0 G-STOP & GO TRAFFIC | | | | |
| õ | | I-OTHER BUS | 0 | 0.0 | N-CROSS INTO OPP LN | 4 | 25.0 | 2 | 12.5 H-ENTER/LEAVE RAMP | | | | |
| Ô | | J-EMERGENCY VEHICLE | 0 | 0.0 | O-PARKED | | 0.0 | ñ | 0.0 I-PREVIOUS COLLISION | | | | |
| Ů. | 7 | K-HIGHWAY CONST EQUP. ** | 0 | 0.0 | P-MERGING | 0 | 0.0 | Ö | 0.0 J-UNFAMILIAR WITH ROAD | | | | |
| n | | L-BICYCLE | 0 | 0.0 | O-TRAVEL WRONG WAY | 0 | 0.0 | D- | 0.0 K-DEFECT VEHICLE EQUIP | | | | |
| . 0 | | M-OTHER-MOTOR VEH | 1 | 6.3 | R-OTHER | 0 | 0.0 | 0 | 0.0 L-UNINVOLVED VEHICLE | | | | |
| 0 | 0.0 | N-OTHER-MOTOR VEH | ^ | 0.0 | <-NOT STATED | 0 | 0.0 | 0 | 0.0 M-OTHER | | | | |
| 0 | 0.0 | | U | 0.0 | C-NOI SIMIED | 10 | 62.5 | • | 6.3 N-NONE APPARENT | | | | |
| 0 | | O-SPILLED LOADS | | | | 10 | | 0 | 0.0 P-WIND | | | | |
| | | P-DISENGAGED TOW | | | | U. | 0.0 | 0 | 0.0 F-WIND 0.0 R-RAMP ACCIDENT | | | | |
| 0 | | Q-UNINVOLVED VEHICLE | | | PEDESTRIAN | V | | • | * | | | | |
| . 0 | | R-MOPED | | | | 0 | 0.0 | 0 | 0.0 S-RUNAWAY VEHICLE | | | | |
| , 0 | | T-TRAIN | 0 | | 2- XING XWALK - INTRST | . 0 | 0.0 | 0 | 0.0 T-EATING* (INATTN) | | | | |
| 0 | | U-PEDESTRIAN | . 0 | | 3- XING XWALK - NOT INTR | 0 | 0.0 | Ō | 0.0 U-CHILDREN* (INATTN) | | | | |
| 0 | | V-DISMOUNT PEDESTRIAN | 0 | 0.0 | 4- XING NOT XWALK | 0 | 0.0 | . 0 | 0.0 V-ANIMALS* (INATTN) | | | | |
| . 0 | 0.0 | W-ANIMAL - LIVESTOCK | 0 | 0.0 | 5- ROADWAY - INCL SHLDR | - 0 | 0.0 | 0 | 0.0 W-PERSNL HYGIENE*(INATTN) | | | | |
| ·. 0 | 0,0 | X-ANIMAL - DEER | 0 | 0.0 | 6- NOT IN ROADWAY | 0 | 0.0 | 0 | 0.0 X-READING* (INATTN) | | | | |
| 0 | 0.0 | Z-ANIMAL - OTHER | . 0 | 0.0 | 7- APRH-LEAVE SCHL BUS | 1 | 6.3 | 15 | 93.8 <-NOT STATED | | | | |
| | | | O | 0.0 | - INVALID CODES | 0 | 0.0 | Ô | 0.0 DOES NOT APPLY | | | | |
| | | | . • | | | • | ••• | • | | | | | |
| ٠. | | • | | 7 | | | | | | | | | |
| ä- | DIREC | TION OF TRAVEL> | . < | SP | ECIAL INFORMATION> | *. : | INATTEN. | TION CODES | S EFF. 01-01-01 | | | | |
| NUMBER | PCT | CODE | NUMBER | PCT | CODE | | | | | | | | |
| 11 | 68.8 | N-N, NE, NW BOUND | 0 | 0.0 | A-HAZARDOUS MATERIALS | | | | | | | | |
| . 5 | 31.3 | S-S, SE, SW BOUND | 1 | 6.3 | B-CELL PHONE IN USE* | | | | | | | | |
| 0 | | E-EASTBOUND | 12 | | C-CELL PHONE NOT IN USE* | | | | | | | | |
| 3 | | W-WESTBOUND | 1 | | D-CELL PHONE NONE/UNKNOWN | * | | | | | | | |
| 0 | | <-NOT STATED | 3 | | <-NOT STATED | *. | | | | | | | |
| · | | | 0 | | DOES NOT APPLY | | | | • | | | | |
| 0 | | DOES NOT APPLY | Q D | | -INVALID CODES | | | | | | | | |
| 0 | 0.0 | -INVALID CODES | Ų | U.U | -INAWDID CODES | | | | | | | | |

^{**} INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

^{*} SPECIAL INFORMATION CODES EFF. 04-01-01

11/25/2008 01:13 PM

TASAS SELECTIVE RECORD RETRIEVAL TSAR - PARTY SUMMARY

All ramp acc. for LA 101, PM 33.4/34.0. For the time period of 01/01/05-12/31/07. T. Duong. Log# 791.

<----> OBJECT STRUCK ----> PRIMARY OTHERS <----- LOCATION OF COLLISION -----> NUMBER PCT NUMBER PCT OTHERS NUMBER NUMBER PCT PCT CODE 0 0:0 0.0 01-SIDE OF BRIDGE RAILING A-BEYOND MEDIAN OR STRIPE-LEFT 0.0 02-END OF BRIDGE RAILING 0 n 0.0 B-BEYOND SHLDER DRIVERS LEFT 0.0 0:0 03-PIER, COLUMN, ABUTMENT 25.0 12.5 C-LEFT SHOULDER AREA 0.0 0.0 0.0 04-BOTTOM OF STRUCTURE 0.0 12.5 0.0 D-LEFT LANE 0.0 05-BRIDGE END POST IN GORE Ω 0.0 0.0 E-INTERIOR LANES 0.0 0.0 06-END OF GUARD RAIL 12 75.0 12.5 F-RIGHT LANE 0.0 0.0 07-BRIDGE APPROACH GUARD RAIL 6.3 6.3 G-RIGHT SHOULDER AREA 0.0 0.0 10-LIGHT OR SIGNAL POLE H-BEYOND SHLDER DRIVERS RIGHT 6.3 18.8 0.0 0.0 11-UTILITY POLE I-GORE AREA 0.0 0.0 12-POLE (TYPE NOT STATED) ٥ 0.0 J-OTHER 0.0 0.0 13-TRAFFIC SIGN/SIGN POST 18.8 V-HOV LANE(S) 0 0.0 0.0 0.0 0.0 14-OTHER SIGNS NOT TRAFFIC W-HOV LANE BUFFER AREA 0 0.0 0 0.0 0.0 0.0 15-GUARDRAIL 0 0.0 0.0 <-NOT STATED 0.0 16-MEDIAN BARRIER 6.3 87.5 --DOES NOT APPLY 0.0 17-WALL (EXCEPT SOUND WALL) 1 14 0.0 0.0 -INVALID CODES 12.5 12.5 18-DIKE OR CURB 0.0 12.5 19-TRAFFIC ISLAND 0.0 0.0 20-RAISED BARS 0.0 0.0 21-CONCRETE OBJ (HDWL, D.I.) 0.0 6.3 22-GUIDEPOST, CULVERT, PM 0.0 0.0 23-CUT SLOPE OR EMBANKMENT 6.3 0.0 24-OVER EMBANKMENT <----> DRUG/PHYSICAL -----> 25-IN WATER OTHERS 0.0 0.0 26-DRAINAGE DITCH NUMBER NUMBER PCT CODE 0.0 6.3 27-FENCE 0.0 0.0 28-TREES 13 81.3 0.0 A-HAD NOT BEEN DRINKING 0.0 12.5 29-PLANTS 0.0 B-HBD - UNDER INFLUENCE 0.0 30-SOUND WALL 3 18.8 0.0 0.0 0.0 C-HBD - NOT UNDER INFLUENCE 40-NATURAL MATRL ON ROAD 0.0 D-HBD - IMPAIRMENT UNKNOWN 0.0 0.0 ٥ 0 41-TEMP BARRICADES, CONES 0.0 0.0 0 1 6.3 E-UNDER DRUG INFLUENCE 0.042-OTHER OBJECT ON ROAD 0.0 18.8 0 0.0 0.0 F-OTHER PHYSICAL IMPAIRMENT 43-OTHER OBJECT OFF ROAD 2 12.5 0.0 G-IMPAIRMENT NOT KNOWN 6.3 12.5 44-OVERTURNED 0 0.0 0.0 H-NOT APPLICABLE 0.0 45-CRASH CUSHION (SAND) 0 0.0 46-CRASH CUSHION (OTHER) 0.0 0.0 I-FATIGUE 0.0 51-CALL BOX 6.3 16 100.0 < NOT STATED 0.0 0.0 0.0 --DOES NOT APPLY 98-UNKNOWN OBJECT STRUCK 6.3 0.0 -INVALID CODES 99- NO OBJECT INVOLVED 0.0 68.8 6.3 V1 THRU V9 VEHICLE 1 TO 9 0 0.0 0.0 << NOT STATED 6.3 87.5 -- DOES NOT APPLY - INVALID CODES

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TASAS SELECTIVE RECORD RETRIEVAL TSAR - ACCIDENT DETAIL All ramp acc. for LA 101, PM 33.893. For the time period of 01/01/05-12/31/07. T. Duong. Log# 793.

| • | RTE | s U | P R POST | H A M B LANES R F R O A G C T A LT RT U T L H Y | P ENVIR R T C COND R W O F W L S C C C | MTR PIHI K ISOSOSOSO FO P |
|----|-----|--------|-------------|---|--|--|
| DI | NO | F CO | E MILE | | | |
| 07 | 101 | LA | 033.893 | DFHE 04 04 UR 2 \$ 4 | 5 A A A H D E | 01 A S 1 < 00 01 18 B 44 B 13 B 43 B N < B G < |
| 07 | 101 | LA | 033.893 | D F H E 04 04: U R 2 S 5 | 1 A C A D D E | 01 A S 1 C 00 00 18 B 22 B 43 B 29 B 5 H C B < |
| | | | | | | Total Accidents: 2 |

OTM22200 11/20/2008 10:50 AM

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DI NO F CO

R POST

TASAS SELECTIVE RECORD RETRIEVAL TSAR - ACCIDENT DETAIL All ramp acc. for LA 101, PM 33.764. For the time period of 01/01/05-12/31/07. T. Duong. Log# 792.

Page 1

HWAY----- I S D
LANES R F R O A
LT RT U T L H Y

04 04 U R 4 S 3

P ENVIR R T NO D V S PERSON O L O L O L O L O A C COND R W O MTR P I H I K I S O S O S O S O F F W L S C C C VEH T R I P C O C O C O C 12

Total Accidents: 1

OTM22200 11/20/2008 10:59 AM

TASAS SELECTIVE RECORD RETRIEVAL TSAR - ACCIDENT DETAIL All ramp acc. for LA 101, PM 33.618. For the time period of 01/01/05-12/31/07. T. Duong. Log# 794.

| | | U | P R POST | H A M B LANES R I | ROA | 1 | ENVIR R T NO COND R W O MTR : W L S C C C VEH ' | DVSPI PIHI TRI | ERSON O L O L O L O L OA M SD K I S O S O S O S O F O P P C O C O C O C 12 V 12 |
|----|------------|------------|--------------------|-------------------|---------|---|---|----------------------|---|
| | NO 101 | • | E MILE 033.618 | DFHE 04 04 U | R 1 N 2 | 6 | / | | 0 00 V2F F< B A< 0 02 V1F N< A A< |
| 07 | 101 | LA | 033.618 | D F H E 04 04 U 1 | 1 N 1 | 6 | AAAHAC 02 | A N 1 C 0 | 0 00 V2F H< B A< 0 01 V1F H< A A< |
| 07 | 101 | LA | 033.618 | DFHE 04 04 U 1 | 2 N 3 | 1 | ADAHDC 03 | G N 1 < 0 | 0 01 V2F 18H 43H 13H 5< B <e 0 01 V1F V3G 18H 27H N< B B<</e |
| 07 | 101 | L A | 033,618 | D F H E 04 04 U 1 | R 1 N 3 | 5 | | | 0 01 V2F N< A A< 0 00 V2F N< B G< |
| | 101 | LA | 033.618 | D F H E 04 04 U : | R 1 N 5 | 5 | A A A H D B 02 | A N 1 B 0 | 0 00 V1 F N< A A< 0 00 V2 G 18 H 13 H H< B A< |
| 07 | 101 | LA | 033.618 | D F H E 04 04 U | R 1 N 4 | 4 | AAAHDB02 | G N 1 C 0 | 0 00 V1F H< A A< 0 00 V2F H< E A< 0 00 V1D H< A A< |
| 07 | 101 | LA | 033.618 | D F H E 04 04 U | | | A A A H D H 01 | C S 1 < 0 | 0 01 44B N< E A< |
| | 101 | LA | 033.618 | D F H E 04 04 U | | | | A W 1 C 0 | 0 00 V2F 44F HN B A< 0 00 V1F N< A A< |
| | 101 101 | LA LA | 033.618 033.618 | D F H E 04 04 U | • | | ACAHDD 02 | A W 1 C 0 | 0 00 24 H 29 H 4 < R B < 0 00 V2 B EH E A < 0 00 V1 F N < B A < |
| 07 | 101 | LA | 033.618 | DFHE 04 04 U | R 4 N 4 | 3 | ACAHAD 02 | A W 1 C 0 | |
| | | | | | | | | • | |

Total Accidents: 11

OTM22215 11/20/2008 10:59 AM

TASAS SELECTIVE RECORD RETRIEVAL TSAR - ACCIDENT SUMMARY

All ramp acc. for LA 101, PM 33.618. For the time period of 01/01/05-12/31/07. T. Duong. Log# 794.

| | TOTAL | | | | | | Ī | PERSONS | | MOTOR | VEHICLES | INVOLVED | <lines< th=""><th>CODED-</th><th>></th></lines<> | CODED- | > |
|---|-----------|---------|----------|--------|-----|--------------|--------|-----------------|----------------|--------|----------|---------------------------|---|---------|---|
| | ACCIDENTS | FA! | TAL | INJURY | PDC | | KILLED | INJURED | | NUMBER | PCT | CODE | NUMBER | PCT | CODE |
| | 11 | | 0 | 4 | 7 | | 0 | 7 | | | | | | | |
| | | | | | | | | | | 2 | 18.2 | 1 | 2 | 18.2 | 1 |
| | | | | | | | | | | 8 | 72.7 | 2 | 8. | 72,7 | 2 |
| | | | | | | | | | | 1 | 9.1 | 3 | . 1 | 9.1 | 3 |
| | • | | | | | | | | | 0 | 0.0 | >3 | 0. | 0.0 | 4 |
| | | | | | | | | | | | | | 0 | 0.0 | 5 . |
| | | | | | | | • | | | | | | 0 | 0.0 | 6 |
| | | | | | | | | | | | | | 0 | 0.0 | 7 |
| | | | | * | | | | | | | | | 0 | 0.0 | 8 |
| | | | | | | | | | | | | | 0 | 0.0 | 9 |
| | | | | | | • | 4 | | | | | 4 | | | |
| | < | HÖUR OF | F DAY | -> . | | < | ACCESS | CONTROL> | | . < | SIDE OF | HIGHWAY> | | • | |
| , | NUMBER | PCT | CODE | | | NUMBER | | CODE | | NUMBER | PCT | CODE | | | |
| | 14OttDELL | | . | | | ************ | | | | | | | | ** | |
| | . 0 | 0.0 | 00- 12 1 | MTD | | 0 | 0.0 | C-CONVENTIONAL | | 11 | 100.0 | N-NORTHBOUND | | | , to the state of |
| | 1 | 9.1 | | A.M. | | Ŏ | | E-EXPRESSWAY | | 0 | 0.0 | S-SOUTHBOUND | • | | 4 |
| | . 0 | | | A.M. | | 11 | | F-FREEWAY | | õ | 0.0 | E-EASTBOUND | • | | |
| | - | 0.0 | | | | 0 | | S-1-WAY CITY ST | | n | 0.0 | W-WESTBOUND | | | |
| | . 0 | 0.0 | | A.M. | | • | | | | U | 0.0 | W-WESTEOOND | • | | |
| | Ü | 0.0 | | A.M. | | 0 | | INVALID DATA | | | | | | | |
| | 0 | 0.0 | | А.М. | | U | 0.0 | +-NO DATA | | • | | | | | |
| | 0 | 0.0 | | A.M. | | | | | | | | | | | |
| | 0 | 0.0 | | A.M. | | | | | | | | | | | ** |
| | 0 | 0.0 | | A.M. | | | | | | | | | | | |
| | 0 | 0.0 | | Α.Μ. | | | | | | | | | _ | D317 AF | rattitite & |
| | 0 | 0.0 | 10- 10 | | - | | YEAR - | | | < | | (> | | | WEEK> |
| | 2 | 18.2 | 11- 11 | | | NUMBER | PCT | CODE | | NUMBER | PCT | CODE | NUMBER | PCT | CODE |
| | 0 | 0.0 | 12- 12 | | | | | 1505 | | | | 01-JANUARY | ź | 18.2 | 1-SUNDAY |
| | 0 | 0.0 | | P.M. | | 0 | 0.0 | | • | . 0 | 0.0 | 01-JANUARY 02-FEBRUARY | 2 | 9.1 | 2-MONDAY |
| | 0 | 0.0 | | Р.М. | | 0 | 0.0 | | | 0 | 0.0 | 02-FEBRUARY 03-MARCH | 2 | 18.2 | 3-TUESDAY |
| | 1 | 9.1 | | P.M. | | 0 | 0.0 | | | Ü | | 04-APRIL | 2 | 18.2 | 4-WEDNESDAY |
| | 1 | 9.1 | | P.M. | | . 0 | -0.0 | | | 0 | 0.0 | 05-MAY | 2 | 9.1 | 5-THURSDAY |
| | . 0 | 0.0 | | P.M. | | 0 | 0.0 | | | 1 | 9.1 | | 1 | | 6-FRIDAY |
| | 3. | 27.3 | | P.M. | | 0 | 0.0 | | | 1 | 9.1 | 06-JUNE | 0. | 0.0 | 7-SATURDAY |
| | 2 | 18.2 | | P.M. | | 0 | 0.0 | | | 0 | 0.0 | | 3 | 27.3 | /-SATURDAY |
| | 0 | 0.0 | | P.M. | | 0 | 0.0 | | | 4 | 36.4 | 08-AUGUST | | | |
| | l | 9.1 | | P.M. | | 4 | 36.4 | | | 2 | 18.2 | | | | |
| | 0 | 0.0 | 22- 10 | | | 2 | 18.2 | | | 2 | 18.2 | | | | • |
| | 0 | 0.0 | 23 - 11 | | | 5 | 45.5 | | and the second | | 9.1 | 11-NOVEMBER | | | |
| | ٥ | 0.0 | 25- UNK | NOWN | | 0 | 0.0 | 2008 | | 0 | 0.0 | 12-DECEMBER | | | |

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| | | | | | | | | ** | | | |
|----|--------|---------|-----------------------|-----------------------|------------|----------|---------------------------|------------|----------|----------------------------|----------|
| | | VERNTEE | COLLISION FACTOR> | 4.5 | < | - TYPE C | F COLLISION> | | < | - ROADWAY CONDITION> | |
| | NUMBER | PCT | CODE | | NUMBER | PCT | CODE | NUMBER | PCT | CODE | |
| | 2 | | 1-INFLUENCE ALCOHOL | • | 110112211 | | 6022 | ****** | | | |
| | 0 | 0.0 | 2-FOLLOW TOO CLOSE | | 0 | 0.0 | A+HEAD-ON | -0 | 0.0 | A-HOLES, RUTS | |
| | 2 - | 18.2 | 3-FAILURE TO YIELD | | | 27.3 | B-SIDESWIPE | Ō | 0.0 | B-LOOSE MATERIAL | |
| | 4 | 18.2 | 4-IMPROPER TURN | * | 3 | 27.3 | C-REAR END | Ď | 0.0 | C-OBSTRUCTION ON ROAD | |
| | 2 | 18.2 | 5-SPEEDING | | . 3 | 18.2 | D-BROADSIDE | Ď | 0.0 | D-CONSTRUCT-REPAIR-ZONE | |
| | 2 | 27.3 | 6-OTHER VIOLATIONS | | 2 | 9.1 | E-HIT OBJECT | n | 0.0 | E-REDUCED ROAD WIDTH | • |
| | 3 | 0.0 | B-IMPROPER DRIVING | | o o | 0.0 | F-OVERTURN | ñ | 0.0 | F-FLOODED | |
| ٠, | 0 | | | | 0. | 0.0 | G-AUTO-PEDESTRIAN | . 0 | 0.0 | G-OTHER | |
| | 0 | 0.0 | C-OTHER THAN DRIVER | | | 9.1 | H-OTHER | 11 | 100.0 | H-NO UNUSUAL CONDITION | |
| • | - | 0.0 | D CHICACHIA | | in in | 9.1 | <-NOT STATED | 0 | 0.0 | <-NOT STATED | • |
| | . 0 | 0.0 | E-FELL SLEEP | | 7 | 0.0 | -INVALID CODES | 0 | 0.0 | -INVALID CODES | |
| | . 0 | 0.0 | <-NOT STATED | | U | 0.0 | -INVACID CODES | v | 0.0 | -INVALID CODES | |
| | - 0 | 0.0 | -INVALID CODES | • | | | | | | | |
| | | | | • | | | | | | | |
| | - | | | | | | • | | | | |
| | | | | | | | | | | | |
| | | | ATHER> | | | | LIGHTING> | | ۷ | ROAD SURFACE> | |
| | | , | CODE | | NUMBER | PCT | CODE | NUMBER | PCT | CODE | |
| | NUMBER | PCT | CODE | | MOMPEK | FCI | CODE | 1405477577 | *01 | C022 | |
| | 11 | 100 0 | A-CLEAR | | 6 | 54.5 | A-DAY LIGHT | 11 | 100.0 | A-DRY | |
| | | 0.0 | B-CLOUDY | | 0 | 0.0 | B-DUSK/DAWN | -0 | 0.0 | B-WET | |
| | 0 | 0.0 | C-RAINING | | 4 | 36.4 | C-DARK-STREET LIGHT | Ō | 0.0 | C-SNOWY, ICY | |
| | . 0 | 0.0 | D-SNOWING | | 1 | 9.1 | D-DARK-NO STREET LIGHT | Ô | 0.0 | D-SLIPPERY | |
| | 0 | 0.0 | E-FOG | | . <u>.</u> | 0.0 | E-DARK-INOPR STREET LIGHT | | 0.0 | <-NOT STATED | |
| | 0 | 0.0 | F-OTHER | | n | 0.0 | F-DARK-NOT STATED | 0 | 0.0 | -INVALID CODES - | |
| | 0 | | G-WIND | | å | 0.0 | <-NOT STATED | • | ٠.٠ | | |
| | . 0 | 0.0 | <-NOT STATED | | | 0.0 | -INVALID CODES | | | | |
| | ñ | 0.0 | -INVALID CODES | | • | 0.0 | | | | | |
| | 0. | 9.0 | -INVADID CODES | | | | | | | | |
| | | | | | | | | | | • | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | • | | | | | | | |
| | < | RIG | HT OF WAY CONTROL | > | < | н | IGHWAY GROUP> | | <- INTER | SECTION/RAMP ACCIDENT LOCA | TION -> |
| | NUMBER | PCT | CODE | | NUMBER | PCT | CODE | NUMBER | PCT | CODE | |
| | ., | | | | | | The second of the second | | | | • |
| | 3 | 27.3 | A-CONTROL FUNCTIONING |) | 0 | 0.0 | R-IND. ALIGN RIGHT | 6 | 54.5 | 1-RAMP INTERSECTION (EXIT | r) |
| | ã | 0.0 | B-CONTROL NOT FUNCTIO | | 0 | 0.0 | L-IND, ALIGN LEFT | 2 | 18.2 | 2-RAMP | |
| | o o | 0.0 | C-CONTROLS OBSCURED | | 11 | 100.0 | D-DIVIDED | ā | 0.0 | 3-RAMP ENTRY | |
| | 8 | 72.7 | D-NO CONTROLS PRESENT | | 0 | 0.0 | U-UNDIVIDED | . 3 | 27.3 | 4-RAMP AREA, INTERSECTION | N STREET |
| | 0 | | <-NOT STATED | | . , | 0.0 | | o o | 0.0 | 5-IN INTERSECTION | |
| | | | | and the second second | | | + 1 | 0 | 0.0 | 6-OUTSIDE INTRSCT-NONSTAT | TE RTE |
| | . u | 0.0 | -INVALID CODES | | | | | 0 | 0.0 | DOES NOT APPLY | |
| | | | | | | | • | | . 0.0 | momp Mot weent | |
| | | | | | | | | | | | |

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TASAS SELECTIVE RECORD RETRIEVAL TSAR - PARTY SUMMARY

All ramp acc. for LA 101, PM 33.618. For the time period of 01/01/05-12/31/07. T. Duong. Log# 794.

| | ~ | | PARTY TYPE> | <- | MOVEMENT | PRECEDING COLLISION -> | | < | OTHER | ASSOC | IATED FACTORS> |
|-----|----------|-------|---------------------------------------|--------|----------|---|--------|---------|-----------|--------|----------------------------|
| | , | | PM(11 111 m | | | | #1 | | #2 | | |
| M | UMBER | PCT | CODE | NUMBER | PCT | CODE | NUMBER | PCT | NUMBER | PCT | CODE |
| ••• | 10 | | A-PASNGR CAR/STA WAGON | 7 | 63.6 | A-STOPPED | 0 | 0.0 | 0 | 0.0 | 1-INFLUENCE ALCOHOL |
| | 10 | | B-PASNGR CAR W/TRAILER | , 8 | 72.7 | B-PROCEDED STRAIGHT | ō | 0.0 | Ō | 0.0 | 2-FOLLOW TOO CLOSE |
| | 5 | | C-MOTORCYCLE | 0 | 0.0 | C-RAN OFF ROAD | Ď | 0.0 | Ō | 0.0 | 3-FAILURE TO YIELD |
| | 1 | | D-PICKUP/PANEL TRUCK | ñ | 0.0 | D-MAKING RIGHT TURN | 1 | 9.1 | 0 | 0.0 | 4-IMPROPER TURN |
| | 0 | | E-PICKUP/PANEL W/TRAILER | 4 | 36.4 | E-MAKING LEFT TURN | 1 | 9.1 | 0 | 0.0 | 5-SPEEDING |
| | 0 | | F-TRUCK/TRUCK TRACTOR | Õ. | 0.0 | F-MAKING U TURN | Ō | 0.0 | 0 | 0.0 | 6-OTHER VIOLATIONS |
| | 2 | | G-TRUCK/TRACTOR & 1 TRAILER | Ō | 0.0 | G-BACKING | 0 | 0.0 | 0 | 0.0 | A-CELL PHONE* (INATTN) |
| | ń | | 2-TRUCK/TRACTOR & 2 TRAILER | 0 | 0.0 | H-SLOWING, STOPPING | 0 | 0.0 | 0 | 0.0 | B-ELECTRC EQUIP*(INATTN) |
| | ň | | 3-TRUCK/TRACTOR & 3 TRAILER | 0 | 0.0 | I-PASS OTHER VEHICLE | 0 | 0.0 | 0 | 0.0 | C-RADIO/CD/HDPHN*(INATTN) |
| | ń | | 4-SINGLE UNIT TANKER | 0 | 0.0 | j-changing lanes | 0 | 0.0 | 0 | 0.0 | D-SMOKING* (INATTN) |
| | 'n | | 5-TRUCK/TRA & 1 TANK TRALR | 0 | 0.0 | K-PARKING | 1 | 9.1 | 0 | 0.0 | E-VISION OBSCUREMENT |
| | 0 | | 6-TRUCK/TRA & 2 TANK TRALK | 0 | 0.0 | L-ENTER FROM SHLDR | 1 | 9.1 | 0 | 0.0 | F-INATTENTION - OTHER |
| | 'n | | H-SCHOOL BUS | 0 | 0.0 | M-OTHER UNSAFE TURN | 0 | 0.0 | 0 | 0.0 | G-STOP & GO TRAFFIC |
| | Ó | _ | · · · · · · · · · · · · · · · · · · · | 0 | 0.0 | N-CROSS INTO OPP LN | 4 | 36.4 | 1 | 9.1 | H-ENTER/LEAVE RAMP |
| | 0 | | | 0 | 0.0 | O-PARKED | n | 0.0 | Ö | 0.0 | I-PREVIOUS COLLISION |
| | Ó | | J-EMERGENCY VEHICLE | ٥ | 0.0 | P-MERGING | ő | 0.0 | Ō | | J-UNFAMILIAR WITH ROAD |
| | • | | K-HIGHWAY CONST EQUP.** | 0 | 0.0 | O-TRAVEL WRONG WAY | 0 | 0.0 | ŏ | | K-DEFECT VEHICLE EQUIP |
| | 0 | | L-BICYCLE | 1 | 9.1 | • · · · · · · · · · · · · · · · · · · · | 0 | 0.0 | 0 | | L-UNINVOLVED VEHICLE |
| | 0 | . 0.0 | M-OTHER-MOTOR VEH | + | • | R-OTHER | - | 0.0 | 0 | | M-OTHER |
| L . | 0 | 0.0 | N-OTHER-NON-MOTOR VEH | . 0. | 0.0 | <-NOT STATED | 0 | | • | | " " " |
| | 0 | | O-SPILLED LOADS | • | | | 7 | 63.6 | 7 | | N-NONE APPARENT |
| | 0 | | P-DISENGAGED TOW | | | | 0 | 0.0 | 0 | | P-WIND |
| | 0 | . 0.0 | Q-UNINVOLVED VEHICLE | | | PEDESTRIAN | 0 | 0.0 | • | | R-RAMP ACCIDENT |
| | 0 | 0.0 | R-MOPED | | | • | ٥ | 0.0 | . 0 | | S-RUNAWAY VEHICLE |
| | Ò | 0.0 | T-TRAIN | 0 | | 2- XING XWALK - INTRST | ٠ ٥ | 0.0 | 0 | | T-EATING* (INATTN) |
| | . 0 | 0.0 | U-PEDESTRIAN | 0 | | 3- XING XWALK - NOT INTR | 0 | 0.0 | 0 | | U-CHILDREN* (INATTN) |
| | 0 | 0.0 | V-DISMOUNT PEDESTRIAN | 0 | 0.0 | 4- XING NOT XWALK | . 0 | 0.0 | 0 | | V-ANIMALS* (INATTM) |
| | 0 | 0.0 | W-ANIMAL - LIVESTOCK | . 0 | | 5- ROADWAY - INCL SHLDR | 0 | 0.0 | 0 | | W-PERSNL HYGIENE* (INATTN) |
| | Ō | 0,0 | X-ANIMAL - DEER | 0 | 0.0 | 6- NOT IN ROADWAY | 0 | 0.0 | 0 | | X-READING* (INATTN) |
| | 0 | 0.0 | Z-ANIMAL - OTHER | Û | 0.0 | 7- APRH-LEAVE SCHL BUS | 0 | 0.0 | 11 | 100.0 | <-NOT STATED |
| | | | | 0. | 0.0 | - INVALID CODES | 0 | 0.0 | 0 | 0.0 | DOES NOT APPLY |
| | | | · | | | | | | | | |
| | < | DIREC | CTION OF TRAVEL> | | < SP | ECIAL INFORMATION> | * | INATTEN | TION CODE | S EFF. | 01-01-01 |
| , | NUMBER | PCT | CODE | NUMBER | PCT | CODE | | | | | |
| | | | | | 0.0 | A-HAZARDOUS MATERIALS | | | | | |
| | 8 | | N-N, NE, NW BOUND | . 0 | | | | | | | |
| | 2 | | s-s, se, sw bound | 1 | | B-CELL PHONE IN USE* | | | | | |
| | 0 | 0.0 | E-EASTBOUND | 9 | | C-CELL PHONE NOT IN USE* | | | | | |
| | 3 | 27.3 | W-WESTBOUND | 0 | | D-CELL PHONE NONE/UNKNOWN* | | | | | |
| | 0 | 0.0 | <-NOT STATED | 2 | 18.2 | <-NOT STATED | | | | | |
| | 0 | 0.0 | DOES NOT APPLY | Ô | 0.0 | DOES NOT APPLY | | | | | |
| | 0 | 0.0 | -INVALID CODES | 0 | 0.0 | -INVALID CODES | | | | | |
| | | | | | | | | | | | |

^{**} INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

^{*} SPECIAL INFORMATION CODES EFF. 04-01-01

11/20/2008 10:59 AM •

TASAS SELECTIVE RECORD RETRIEVAL TSAR - PARTY SUMMARY

All ramp acc. for LA 101, PM 33.618. For the time period of 01/01/05-12/31/07. T. Duong. Log# 794.

<----> <----> LOCATION OF COLLISION ----> OTHERS PRIMARY NUMBER CODE OTHERS NUMBER PCT PCT NUMBER NUMBER PCT CODE 0.0 Û 0.0 01-SIDE OF BRIDGE RAILING 0 2 0 · 1 A-BEYOND MEDIAN OR STRIPE-LEFT . 0.0 0.0 ٥ 0.0 02-END OF BRIDGE RAILING 0.0 B-BEYOND SHLDER DRIVERS LEFT 18.2 0.0 0.0 03-PIER, COLUMN, ABUTMENT 0.0 C-LEFT SHOULDER AREA 0.0 0,0 0.0 04-BOTTOM OF STRUCTURE 9.1 0.0 D-LEFT LANE 05-BRIDGE END POST IN GORE 0.0 0.0 0.0 E-INTERIOR LANES 0.0 0.0 0.0 06-END OF GUARD RAIL 18.2 F-RIGHT LANE 81.8 0.0 0.0 07-BRIDGE APPROACH GUARD RAIL 9.1 9.1 G-RIGHT SHOULDER AREA 0.0 Ō. 0.0 10-LIGHT OR SIGNAL POLE H-BEYOND SHLDER DRIVERS RIGHT 27.3 9.1 3 0.0 0.0 11-UTILITY POLE ο . 0.0 0 0.0 I-GORE AREA 0.0 12-POLE (TYPE NOT STATED) J-OTHER 0.0 0 0.0 0.0 18.2 13-TRAFFIC SIGN/SIGN POST 0.0 V-HOV LANE(S) 0.0 0.0 0.0 14-OTHER SIGNS NOT TRAFFIC Ò,Q 0.0 W-HOV LANE BUFFER AREA 0.0 0.0 0 15-GUARDRAIL ο.σ <-NOT STATED 0 0.0 0.0 0 0:0 16-MEDIAN BARRIER 9.1 11 100.0 -- DOES NOT APPLY 0.0 0.0 17-WALL (EXCEPT SOUND WALL) 18-DIKE OR CURB 0.0 Ô 0.0 -INVALID CODES 0.0 0.0 18,2 19-TRAFFIC ISLAND 0.0 0.0 20-RAISED BARS 0.0 0.0 21-CONCRETE OBJ (HDWL, D.I.) 0.0 0.0 22-GUIDEPOST, CULVERT, PM 23-CUT SLOPE OR EMBANKMENT 0.0 0.0 9.1 0.0 24-OVER EMBANKMENT <----- DRUG/PHYSICAL ----> 0.0 0 0.0 25-IN WATER PRIMARY OTHERS 0.0 0.0 26~DRAINAGE DITCH NUMBER PCT NUMBER CODE 0.0 9.1 27-FENCE 0.0 0.0 28-TREES A-HAD NOT BEEN DRINKING 0.0 1.0 90.9 0 0.0 9.1 29-PLANTS 18.2 0 0.0 B-HBD - UNDER INFLUENCE 0.0 0.0 30-SOUND WALL 0.0 C-HBD - NOT UNDER INFLUENCE 0.0 0.0 40-NATURAL MATRL ON ROAD 0,0 0.0 D-HBD - IMPAIRMENT UNKNOWN 0.0 0.0 41-TEMP BARRICADES, CONES 0.0 0,0 0.0 9.1 E-UNDER DRUG INFLUENCE 42-OTHER OBJECT ON ROAD 0.0 0.0 F-OTHER PHYSICAL IMPAIRMENT 0.0 9.1 43-OTHER OBJECT OFF ROAD 1 9.1 0.0 G-IMPAIRMENT NOT KNOWN 9.1 9.1 44-OVERTURNED 0.0 0.0 0.0 H-NOT APPLICABLE 0.0 45-CRASH CUSHION (SAND) 0 1 9.1 11 100.0 < NOT STATED
0 0.0 0 0.0 --DOES NOT A 0.0 0.0 46-CRASH CUSHION (OTHER) 0.0 0.0 51-CALL BOX 0.0 98-UNKNOWN OBJECT STRUCK --DOES NOT APPLY 0 0.0 0.0 0.0 -INVALID CODES n 0.0 99- NO OBJECT INVOLVED 81.8 9.1 V1 THRU V9 VEHICLE 1 TO 9. 0.0 0.0 << NOT STATED 9.1 11 100.0 -- DOES NOT APPLY 0.0 0 0.0 - INVALID CODES

Page 1

OTM22200 11/20/2008 11:01 AM

TASAS SELECTIVE RECORD RETRIEVAL TSAR · ACCIDENT DETAIL All ramp acc. for LA 101, PM 33.798. For the time period of 01/01/05-12/31/07. T. Duong. Log# 795.

| | HIGHWAY | I S | D |
|-------------------|-------------------|-----|---|
| RTES P | HAMB LANES R F | R O | A |
| U R POST | GCTALT RTUT | L H | Y |
| DI NO F CO E MILE | | | |
| 07 101 LA 033.798 | D F H E 04 04 U F | 2 N | 4 |
| 07 101 LA 033.798 | D F H E 04 04 U F | 4 N | 7 |
| | | | |

Total Accidents: 2

अध्यासकाता सम्बद्धाः ।

ATTACHMENT E

PROJECT COST ESTIMATE SUMMARY

- 1. For improvements within the State right-of-way
- 2. For improvements outside of the State right-of-way

PRELIMINARY PROJECT COST ESTIMATE SUMMARY

| • | | DIST-CO-RTE | 07 - LA - 101 |
|------------------------|---|-----------------------|---------------|
| | Т | ype of Estimate | PSR |
| | · • | Program Code: | |
| | • | Post Miles | 33.4/33.9 |
| • | | EA . | 25720K |
| • | | Project No. | |
| | PROJECT DESCRIPTION | . • | |
| Project Title: | Palo Comado Canyon Rd Interchange | | |
| Limits: | Post Mile 33.4/33.9 | | |
| Proposed Improvements: | Overcrossing widening . US 101 NB off-ramp and | on-ramp modification. | |
| Alternative Project: | Alternative 2 (Improvements Within Caltra | ns R/W) | |
| Project Costs | ROADWAY ITEMS | | \$5,270,000 |
| | STRUCTURE ITEMS | | \$2,943,000 |
| | SUBTOTAL CONSTRUCTION | | \$8,213,000 |
| • | RIGHT OF WAY (Current Value) | | \$0 |
| | TOTAL PROJECT CAPITAL OUTLAY COSTS | | \$8,213,000 |
| | ENGINEERING, CONSTRUCTION MANAGEMEN & PROJECT ADMINISTRATION | 1T | \$1,232,000 |
| | TOTAL PROJECT COST | | \$9,445,000 |
| Prepared By: | - Hui lui | Date: <u>2/25/200</u> | 9 |
| Reviewed By: | Surafaetileel | Date: <u>2/25/200</u> | <u>9</u> |

I. ROADWAY ITEMS

| Section 1 - Earthwork | Quantity | Unit | Unit Price | Unit Cost Sect | tion Cost |
|---|---|--|---|---|-----------------------|
| Clearing & Grubbing | 1 | L.S | \$8,000.00 | \$8,000 | |
| Roadway Excavation | 3,752 | CY | \$25.65 | \$96,251 | |
| Import Borrow | | CY | · | \$0 | |
| Develop Water Supply | 1 | LS | \$5,000.00 | \$5,000 | |
| Structure Approach Embankment | 2,178 | CY | \$20.22 | \$44,049 | |
| | | | | Total Earthwork \$ | 153,299 |
| | | | | Total Lattiwork | 133,233 |
| Section 2 - Structural Section | Quantity | Unit | Unit Price | Unit Cost Sect | tion Cost |
| PCC Pavement | | CY | | \$0 | |
| Asphalt Concrete (Type B) | 1,318 | TON | \$76.00 | <u>\$100,169</u> | |
| Asphalt Concrete (Misc. Area) | | SQ FT | | \$0 | |
| Asphalt Concrete Dike (Type C) | | LF | | \$0 | |
| Asphalt Concrete Dike (Type D) | · . | LF | | <u>\$0</u> | |
| JPCP | 704 | CY | \$545.09 | \$383,864 | |
| Asphalt Concrete (Open Graded) | <u> </u> | TON | | \$0_ | |
| LCB (Rapid Setting) | 1,005 | CY | \$174.68 | \$175,503 | |
| Cold Plane Asphalt Concrete Pavement | | SQ YD | | \$0 | |
| Minor Concrete (Sidewalk and C&G Type A2-6) | 0 | CY | \$441.60 | \$0 | |
| Aggregate Base (Class 3) | 1,788 | CY | \$68.97 | \$123,292 | |
| | | | | | |
| | | | | Total Structural Items \$ | 782,827 |
| | | | | <u></u> | |
| Section 3 - Drainage | Quantity | Unit | Unit Price | Unit Cost Sect | tion Cost |
| Project Drainage | 11 | LS | \$140,419 | \$140,419 | |
| | | | | | |
| Storm Drains | 1 | LS | \$93,613 | \$93,613 | |
| Storm Drains | 1 | LS | \$93,613 | | 234.032 |
| Storm Drains | 1 | LS | \$93,613 | | 5234,032 |
| Section 4 - Specialty Items | 1 Quantity | LS Unit | \$93,613 Unit Price | Total Drainage\$ | 5234,032 tion Cost |
| | | | | Total Drainage\$ | |
| Section 4 - Specialty Items | Quantity | Unit - | Unit Price | Total Drainage\$ Unit Cost Sect | |
| Section 4 - Specialty Items Retaining Wall | Quantity 1,212 | Unit SQFT | Unit Price \$100.00 | Total Drainage\$ Unit Cost Sect \$121,201 | |
| Section 4 - Specialty Items Retaining Wall Erosion Control | Quantity 1,212 1 | Unit SQFT LS | Unit Price \$100.00 \$11,000 | Total Drainage\$ Unit Cost Sect | |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control | Quantity 1,212 1 | Unit SQFT LS LS | Unit Price \$100.00 \$11,000 \$250,860 | Unit Cost Sect \$121,201 \$11,000 \$250,860 | |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's | Quantity 1,212 1 1 1 | Unit SQFT LS LS LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 | Unit Cost Sect \$121,201 \$11,000 \$250,860 \$277,200 | |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails | Quantity 1,212 1 1 1 1 | Unit SQFT LS LS LS LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 | Total Drainage\$ Unit Cost Sect \$121,201 \$11,000 \$250,860 \$277,200 \$30,000 | |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting | Quantity 1,212 1 1 1 1 1 | Unit SQFT LS LS LS LS LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 | Total Drainage \$ Unit Cost Sect \$121,201 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 | |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office | Quantity 1,212 1 1 1 1 1 1 | Unit SQFT LS LS LS LS LS LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 | Total Drainage \$ Unit Cost Sect \$121,201 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 | |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Work | Quantity 1,212 1 1 1 1 1 1 1 | Unit SQFT LS LS LS LS LS LS LS LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 | Total Drainage \$ Unit Cost Sect \$121,201 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 | |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Work Environmental Mitigation | Quantity 1,212 1 1 1 1 1 1 1 1 1 | Unit SQFT LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 \$100,000 | Unit Cost Sect \$121,201 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$120,000 \$250,000 \$20,000 \$5,000 | |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Work Environmental Mitigation Landscape and Irrigation | Quantity 1,212 1 1 1 1 1 1 1 1 1 1 | Unit SQFT LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 \$100,000 \$20,000 | Unit Cost Sect \$121,201 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 \$100,000 \$20,000 \$20,000 | tion Cost |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Work Environmental Mitigation Landscape and Irrigation Slope Protection | Quantity 1,212 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Unit SQFT LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 \$100,000 \$20,000 | Total Drainage \$\frac{\\$121,201}{\$11,000}\$ \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 \$20,000 \$20,000 \$20,000 | |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Work Environmental Mitigation Landscape and Irrigation Slope Protection Plant Establishment Work | Quantity 1,212 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Unit SQFT LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 \$100,000 \$20,000 \$5,000 | Unit Cost Sect | tion Cost |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Work Environmental Mitigation Landscape and Irrigation Slope Protection Plant Establishment Work Section 5 - Traffic Items | Quantity 1,212 1 1 1 1 1 1 1 1 1 1 1 1 1 1 Ouantity | Unit SQFT LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 \$100,000 \$20,000 \$20,000 | Unit Cost Sect | tion Cost |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Work Enviromental Mitigation Landscape and Irrigation Slope Protection Plant Establishment Work Section 5 - Traffic Items Traffic Delineation Items | Quantity 1,212 1 1 1 1 1 1 1 1 1 1 1 1 Quantity 1 | Unit SQFT LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 \$100,000 \$20,000 \$20,000 Unit Price \$23,403 | Unit Cost Sect | tion Cost |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Work Environmental Mitigation Landscape and Irrigation Slope Protection Plant Establishment Work Section 5 - Traffic Items Traffic Delineation Items Traffic Signal and Lighting | Quantity 1,212 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Unit SQFT LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 \$20,000 \$20,000 Unit Price \$23,403 \$175,000 | Unit Cost Sect | tion Cost |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Work Enviromental Mitigation Landscape and Irrigation Slope Protection Plant Establishment Work Section 5 - Traffic Items Traffic Delineation Items Traffic Signal and Lighting Roadside Signs (new and relocate) | Quantity 1,212 1 1 1 1 1 1 1 1 1 1 1 Quantity 1 1 1 | Unit SQFT LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$100,000 \$250,000 \$20,000 \$20,000 Unit Price \$23,403 \$175,000 \$25,000 | Unit Cost Sect | tion Cost |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Work Environmental Mitigation Landscape and Irrigation Slope Protection Plant Establishment Work Section 5 - Traffic Items Traffic Delineation Items Traffic Signal and Lighting Roadside Signs (new and relocate) Transportation Management Plan | Quantity 1,212 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Unit SQFT LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$250,000 \$20,000 \$20,000 Unit Price \$23,403 \$175,000 \$25,000 \$133,920 | Unit Cost Sect | tion Cost |
| Section 4 - Specialty Items Retaining Wall Erosion Control Water Pollution Control Treatment BMP's Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Work Environmental Mitigation Landscape and Irrigation Slope Protection Plant Establishment Work Section 5 - Traffic Items Traffic Delineation Items Traffic Signal and Lighting Roadside Signs (new and relocate) | Quantity 1,212 1 1 1 1 1 1 1 1 1 1 1 Quantity 1 1 1 | Unit SQFT LS | Unit Price \$100.00 \$11,000 \$250,860 \$277,200 \$30,000 \$40,000 \$120,000 \$100,000 \$250,000 \$20,000 \$20,000 Unit Price \$23,403 \$175,000 \$25,000 | Unit Cost Sect | tion Cost |

Total Traffic Items <u>\$402,323</u>

SUBTOTAL SECTIONS 1-5 <u>\$2,817,743</u>

| | 0.047.740 | • | 400/ | | Section Co |
|---|-----------|--|---------------|----------------------------------|------------------|
| 10% of Subtotal Sections 1-5 | 2,817,743 | . X | 10% | \$281,774 Total Minor Items _ | \$281,77 |
| Section 7 - Roadway Mobilization | | | ŧ | Unit Price | Section Co |
| Subtotal Sections 1-5 | 2,817,743 | | | OTHE T TIOO | 0000011 00 |
| Minor Items | 281,774 | | | | |
| | | v | 400/ | #000 DE0 | |
| Sum | 3,099,517 | X | 10% | \$309,952 Total Mobilization | #200 0E |
| | | | | i otał włodilization _ | \$309,95 |
| Section 8 - Roadway Additions Supplemental | | | | | |
| Subtotal Sections 1-5 | 2,817,743 | | | | |
| Minor Items | 281,774 | | | | |
| Sum | 3,099,517 | x | 10% | \$309,952 | |
| Contingencies | | | | | |
| Subtotal Sections 1-5 | 2.817,743 | | | | |
| Minor Items | 2,617,743 | | | | |
| | • | Х | 25% | ウファル ウフ ウ | |
| Sum | 3,099,517 | | 25% | \$774,879 | |
| Escalation | | | | • | |
| Subtotal Sections 1-5 | 2,817,743 | | | | |
| Minor Items | 281,774 | | | | |
| Sum | 3,099,517 | x | 15% | \$464,928 | |
| | -,, | • | | DADWAY ADDITIONS | \$1 540 7F |
| | | | | = | ¥ 1,10,1 |
| | | | AL ROADWAY I' | | |
| |] | Chesebro Rd | | | |
| |] | Chesebro Rd Overcrossing | : | | |
| Bridge Name | | Chesebro Rd | 1 | | |
| Bridge Name Structure Type | | Chesebro Rd Overcrossing (Widen) | | | |
| Bridge Name Structure Type Width ft (out to out) | | Chesebro Rd Overcrossing (Widen) | | | |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft | | Chesebro Rd Overcrossing (Widen) 49.58 234 | | | |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft | | Chesebro Rd Overcrossing (Widen) | | | |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization | | Chesebro Rd Overcrossing (Widen) 49.58 234 | | | |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | \$2,943,00 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | \$2,943,00 \$ |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | \$2,943,00 \$ |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | \$2,943,00 \$ |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 | | | \$2,943,00 \$ |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | \$2,943,00 \$ |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values | | | \$2,943,00 \$ |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values | | | \$2,943,00 |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) | | | \$2,943,00 \$ |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) | | | \$2,943,00 \$ |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) | | | \$2,943,00 \$ |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition D. RAP | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) \$0 \$0 | | | \$2,943,00 \$ |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition D. RAP E. Title and Escrow Fees | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) | | | \$2,943,00 \$ |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition D. RAP | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) \$0 \$0 | | | \$2,943,00 \$ |

A Comment

PRELIMINARY PROJECT COST ESTIMATE SUMMARY

| | DIST-CO-RIE _ | 07 - LA - 101 |
|------------------------|--|---------------|
| | Type of Estimate | PSR |
| | Program Code: | |
| | Post Miles | 33.4/33.9 |
| | EA | 25720K |
| | Project No. | |
| | PROJECT DESCRIPTION | |
| Project Title: | Palo Comado Canyon Rd Interchange | |
| Limits: | Post Mile 33.4/33.9 | |
| Proposed Improvements: | Overcrossing widening . US 101 NB off-ramp and on-ramp modification. | |
| Alternative Project: | Alternative 2 (Improvements Outside Caltrans R/W) | |
| Project Costs | ROADWAY ITEMS | \$3,320,000 |
| | STRUCTURE ITEMS | \$0 |
| | SUBTOTAL CONSTRUCTION | \$3,320,000 |
| | RIGHT OF WAY (Current Value) | \$1,082,500 |
| | TOTAL PROJECT CAPITAL OUTLAY COSTS | \$4,402,500 |
| | ENGINEERING, CONSTRUCTION MANAGEMENT & PROJECT ADMINISTRATION | \$498,000 |
| | TOTAL PROJECT COST | \$4,900,500 |
| Prepared By: | Date: 2/25/2009 | |
| Reviewed By: | Sevelal Date: | |

I. ROADWAY ITEMS

| | 4 | | | | |
|---|------------|----------|--------------------|-------------------------------|--------------|
| Section 1 - Earthwork | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Clearing & Grubbing | 1 5,187 | LS CY | \$4,000 \$25.65 | \$4,000 | |
| Roadway Excavation | 5,167 | | <u> </u> | \$133,043 | |
| Import Borrow | 1 | CY | \$7 AAA | \$0 \$7,000 | |
| Develop Water Supply | 0 | CY | \$7,000 \$20.22 | \$7,000 \$0 | |
| Structure Approach Embankment | <u> </u> | C1 | φ20.22 | <u> </u> | |
| | , | | | Total Earthwork | \$144,043 |
| Section 2 - Structural Section | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| PCC Pavement | | CY | | <u>\$0</u> | |
| Asphalt Concrete (Type B) | 1,635 | TON | \$76.00 | \$124,269 | |
| Asphalt Concrete (Misc. Area) | | SQ FT | | \$0 | |
| Asphalt Concrete Dike (Type C) | | LF | | \$0_ | |
| Asphalt Concrete Dike (Type D) | | LF | | \$0 | |
| JPCP | 0 | CY | \$545.09 | \$0 | |
| Asphalt Concrete (Open Graded) | | TON | | \$0 | |
| LCB (Rapid Setting) | 835 | CY | \$174.68 | <u>\$145,912</u> | |
| Cold Plane Asphalt Concrete Pavement | | SQ YD | | \$0 | |
| Minor Concrete (Sidewalk and C&G Type A2-6) | 300 | CY | \$441.60 | \$132,273 | |
| Aggregate Base (Class 3) | 1,601 | CY | \$68.97 | \$110,422 | |
| | | | | | |
| | | | | Total Structural Items | \$512,876 |
| Section 3 - Drainage | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Project Drainage | 1 | LS | \$98,538 | \$98,538 | |
| Storm Drains | 1 | LS | \$65,692 | \$65,692 | |
| | | | | Total Drainage | \$164,230 |
| | | | | | |
| Section 4 - Specialty Items | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Retaining Wall | 7,735 | SQFT | \$100.00_ | <u>\$773,542</u> | |
| Erosion Control | 1 | LS | \$7,390 | \$7,390 | |
| Water Pollution Control | 1 | LS | \$99,000 | \$99,000 | |
| Barriers and Guardralls | | LS | | <u>\$0</u> | |
| Highway Planting | | LS | | . \$0 | |
| Resident Engineer Office | | LS | - | \$0 | |
| Hazardous Waste Mitigation | | LS | | \$0 | |
| Slope Protection | 1 | LS | \$5,000 | \$5,000 | |
| | | | | | |
| | | | | Total Specialty Items | \$884,932 |
| Section 5 - Traffic Items | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Relocate Ramp Metering Cabinets | · · | LS | | \$0 | |
| Traffic Delineation Items | 1 | LS | \$16,423 | \$16,423 | |
| Traffic Signal | | LS | | \$0_ | |
| Roadside Signs | | LS | | \$0 | |
| Transportation Management Plan | 1 | LS | \$33,480.00 | \$33,480 | |
| , | | | | | |
| Construction Area Signs | 11 | LS | \$20,000 | \$20,000 | |
| _ | 1 | LS | \$20,000 | \$20,000 | |
| _ | 1 | LS | \$20,000 | \$20,000 | |
| _ | 1 | LS | \$20,000 | \$20,000 Total Traffic Items | \$69,903 |

| Castian C : Minor Home | | | | Unit Price | Section Cost |
|---|---------------------------------------|--|-------|-------------------------------|------------------------------------|
| Section 6 - Minor Items 10% of Subtotal Sections 1-5 | 1,775,984 | X | 10% | \$177,598 | Section Cost |
| 10% of Suptotal Sections 1-3 | 1,770,904 | ^ | 1070 | Total Minor Items | \$177,59 |
| No. 41 - 7 Parahusu Birahili adian | | | • | l Init Dring | Castian Cast |
| Section 7 - Roadway Mobilization | 4 775 004 | | | Unit Price | Section Cost |
| Subtotal Sections 1-5 | 1,775,984 | | | | |
| Minor Items | 177,598 | | | | |
| Sum | 1,953,583 | Х | 10% | \$195,358 | |
| | • | | | Total Mobilization = | \$195,35 |
| Section 8 - Roadway Additions | | | | | |
| Supplemental | ٠ | * | | | |
| Subtotal Sections 1-5 | 1,775,984 | • | | | |
| Minor Items | 177,598 | | | | |
| Sum | 1,953,583 | X | 10% | \$195,358 | |
| Contingencies | | | | | |
| Subtotal Sections 1-5 | 1,775,984 | | | | |
| Minor Items | 177,598 | | | • | |
| Sum | 1,953,583 | Х | 25% | \$488,396 | |
| oun | 1,800,000 | ^ | 2570 | . ψτου,υσο | |
| Escalation | | | | | |
| Subtotal Sections 1-5 | 1,775,984 | | | | |
| Minor Items | 177,598 | * | | | |
| Sum | 1,953,583 | Х | 15% | \$293,037 | |
| | | | | | |
| | ÷ | | TOTAL | ROADWAY ADDITIONS | \$976,79 |
| | | | | | |
| Section 9 - Time Related Overhead | | тотл | Time | = _ e Related Overhead 10% | \$195,35 |
| | | тоти | Time | | \$195,35 |
| | | тоти | Time | = _ e Related Overhead 10% | \$195,35 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name | | тота | Time | = _ e Related Overhead 10% | \$195,35 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type | · · · · · · · · · · · · · · · · · · · | тотл | Time | = _ e Related Overhead 10% | \$195,35 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) | | тотл | Time | = _ e Related Overhead 10% | \$195,35 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft | | тот | Time | = _ e Related Overhead 10% | \$195,35 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft | · · | тота | Time | = _ e Related Overhead 10% | \$195,35 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) | | тота | Time | = _ e Related Overhead 10% | \$195,35 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization | _ | тоти | Time | = _ e Related Overhead 10% | \$195,35 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) | _ | тоти | Time | = _ e Related Overhead 10% | \$195,35 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) | | тот | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure | | тоти | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure | | тоти | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | тоти | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization | | Current Values | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY | | | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and | | Current Values (Future Use) | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) | | Current Values (Future Use) \$619,000 | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation | | Current Values (Future Use) | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition | | Current Values (Future Use) \$619,000 | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition D. RAP | | Current Values (Future Use) \$619,000 \$433,500 | Time | = _ e Related Overhead 10% | \$195,35 \$3,321,09 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition | | Current Values (Future Use) \$619,000 | Time | = _ e Related Overhead 10% | \$976,79 \$195,35 \$3,321,09 |

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PRELIMINARY PROJECT COST ESTIMATE SUMMARY

| | DIST-CO-RTE | 07 - LA - 101 |
|------------------------|--|---------------|
| | Type of Estimate | PSR |
| | Program Code: | |
| | Post Miles | 33.4/33.9 |
| | EA | 25720K |
| | Project No. | |
| | PROJECT DESCRIPTION | |
| Project Title: | Palo Comado Canyon Rd Interchange | |
| imits: | Post Mile 33.4/33.9 | |
| Proposed Improvements: | Overcrossing widening . US 101 NB off-ramp and on-ramp modification. | |
| Alternative Project: | Alternative 3 (Improvements Within Caltrans R/W) | |
| Project Costs | ROADWAY ITEMS | \$9,410,000 |
| | STRUCTURE ITEMS | \$2,943,000 |
| | SUBTOTAL CONSTRUCTION | \$12,353,000 |
| | RIGHT OF WAY (Current Value) | \$174,000 |
| | TOTAL PROJECT CAPITAL OUTLAY COSTS | \$12,527,000 |
| | ENGINEERING, CONSTRUCTION MANAGEMENT & PROJECT ADMINISTRATION | \$1,853,000 |
| | TOTAL PROJECT COST | \$14,380,000 |
| Prepared By: | Hui lui Date: 2/25/2009 | <u>.</u> |
| Reviewed By: | Surviaetales Date: 2/25/2009 | <u>.</u> |

I. ROADWAY ITEMS

| Section 1 - Earthwork | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
|---|-------------|------------|---|------------------------|--------------|
| Clearing & Grubbing | 1 | LS | \$16,000 | \$16,000 | |
| Roadway Excavation | 8,344 | CY | \$25.65 | \$214,025 | |
| Import Borrow | | CY | | \$0 | |
| Develop Water Supply | 1 | LS | \$11,000 | \$11,000 | |
| Structure Approach Embankment | 2,178 | CY | \$20.22 | \$44,049 | |
| | | | | Total Earthwork | \$285,074 |
| Castion 2 Structural Section | Ougatity | Linit | Unit Price | Unit Cost | |
| Section 2 - Structural Section | Quantity | Unit CY | OHR FIICE | | Section Cost |
| PCC Pavement | 4 240 | | | <u>\$0</u> | |
| Asphalt Concrete (Type B) | 1,340 | TON | \$76.00 | \$101,830 | |
| Asphalt Concrete (Misc. Area) | | SQ FT | | \$0 | |
| Asphalt Concrete Dike (Type C) | | LF | · · · · · · . | \$0 | |
| Asphalt Concrete Dike (Type D) | | L.F | | \$0 | |
| JPCP | 890 | CY | \$545.09 | \$485,360 | |
| Asphalt Concrete (Open Graded) | | TON | | \$0 | |
| LCB (Rapid Setting) | 1,104 | CY | \$174.68 | \$192,760 | |
| Cold Plane Asphalt Concrete Pavement | | SQ YD | *************************************** | \$0 | |
| Minor Concrete (Sidewalk and C&G Type A2-6) | 39 | CY | \$441.60 | \$17,384 | |
| Aggregate Base (Class 3) | 1,940 | CY | \$68.97 | \$133,833 | |
| | | | | | |
| | | | | Total Structural Items | \$931,167 |
| Section 3 - Drainage | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Project Drainage | 1 | LS | \$182,436 | \$182,436 | |
| Storm Drains | 1 | LS | \$121,624 | \$121,624 | |
| | | | 4 | Total Drainage | \$304,060 |
| Section 4 - Specialty Items | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Retaining Wall | 18,463 | SQFT | \$100.00 | \$1,846,274 | |
| Erosion Control | 1 | LS | \$11,000 | \$11,000 | |
| Water Pollution Control | 1 : | LS | \$250,860 | \$250,860 | |
| Treatment BMP's | 1 | LS | \$277,200 | \$277,200 | |
| Barriers and Guardrails | 1 | LS | \$30,000 | \$30,000 | |
| Highway Planting | 1 | LS | \$40,000 | \$40,000 | |
| Resident Engineer Office | 1 | LS | \$120,000 | \$120,000 | • |
| Hazardous Waste Work | 1 | LS | \$250,000 | \$250,000 | . • |
| Enviromental Mitigation | 1 | LS | \$100,000 | \$100,000 | |
| Landscape and Irrigation | 1 | LS | \$50,000 | \$50,000 | |
| Slope Protection | 1 | LS | \$15,000 | \$15,000 | |
| Plant Establishment Work | 1 | LS | \$20,000 | \$20,000 | |
| Fight Establishment Work | | | Ψ20,000 | Total Specialty Items | \$3,010,334 |
| | | | | , | |
| Section 5 - Traffic Items | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Traffic Delineation Items | 1 | LS | \$30,406 | \$30,406 | |
| Traffic Signal and Lighting | 1 | LS | \$175,000 | \$175,000 | |
| Roadside Signs (new and relocate) | 1 | L\$ | \$25,000 | \$25,000 | |
| Transportation Management Plan | 1 | LS | \$147,360 | \$147,360 | |
| Overhead Guide Sign | 11 | LS | \$80,000 | \$80,000 | |
| 3 | | | | | |
| Traffic Control System (Relocate Ramp Metering Cabinets) | | LS | \$45,000 | \$45,000 | |

Total Traffic Items <u>\$502,766</u>

SUBTOTAL SECTIONS 1-5 <u>\$5,033,401</u>

| Section 6 - Minor Items | | | | Unit Price | Section Co |
|--|-----------|--|-----|---|--------------------------------|
| 10% of Subtotal Sections 1-5 | 5,033,401 | Х | 10% | \$503,340 | |
| | | • | | Total Minor Items | \$503,34 |
| Section 7 - Roadway Mobilization | | | · C | Unit Price | Section Co |
| Subtotal Sections 1-5 | 5,033,401 | | | · | |
| Minor Items | 503,340 | | | | |
| Sum | 5,536,742 | х | 10% | \$553,674 | |
| | | | | Total Mobilization | \$553,67 |
| Section 8 - Roadway Additions | | | | | |
| Supplemental | | | | | |
| Subtotal Sections 1-5 | 5,033,401 | | | | |
| Minor Items | 503,340 | | | • | |
| Sum | 5,536,742 | Х | 10% | \$553,674 | |
| Contingencies | | | | | |
| Subtotal Sections 1-5 | 5,033,401 | | | | |
| Minor Items | 503,340 | | | | |
| Sum | 5,536,742 | Х | 25% | \$1,384,185 | |
| Escalation | | | | | |
| Subtotal Sections 1-5 | 5,033,401 | | | | |
| Minor Items | 503,340 | | | | |
| Sum | 5,536,742 | x | 15% | \$830,511 | |
| | , , | • | | OADWAY ADDITIONS | \$2,768,37 |
| Section 9 - Time Related Overhead | | TOTA | | Related Overhead 10% | |
| Section 9 - Time Related Overhead | | тотл | | Related Overhead 10% ITEMS, SECTIONS 1 - 9 | |
| II. STRUCTURES ITEMS | ! | | | | |
| | | TOTA Chesebro Rd Overcrossing | | | |
| II. STRUCTURES ITEMS Bridge Name | | Chesebro Rd | | | |
| II. STRUCTURES ITEMS Bridge Name Structure Type | | Chesebro Rd Overcrossing (Widen) | | | |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) | | Chesebro Rd Overcrossing (Widen) 49.58 | | | |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft | | Chesebro Rd Overcrossing (Widen) 49.58 234 | | | |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft | | Chesebro Rd Overcrossing (Widen) 49.58 | | | |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization | | Chesebro Rd Overcrossing (Widen) 49.58 234 | | | |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | \$9,412,46 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | \$9,412,46 \$2,943,00 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | \$9,412,46 \$2,943,00 |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 | | | \$9,412,46 \$2,943,00 \$ |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 | | | \$9,412,46 \$2,943,00 |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 | | | \$9,412,46 \$2,943,00 |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 | | | \$9,412,46 \$2,943,00 \$ |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) | | | \$9,412,46 \$2,943,00 \$ |
| Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) | | | \$9,412,46 \$2,943,00 \$ |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) | | | \$9,412,46 \$2,943,00 |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) | | | \$9,412,46 \$2,943,00 \$ |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition D. RAP | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) \$129,000 \$0 | | | \$9,412,46 \$2,943,00 |
| Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition | | Chesebro Rd Overcrossing (Widen) 49.58 234 11,602 \$254 \$2,943,000 Current Values (Future Use) | | | |

PRELIMINARY PROJECT COST ESTIMATE SUMMARY

| | D | IST-CO-RTE | 07 - LA - 101 |
|------------------------|--|---------------------|---------------|
| | Ţy _l | pe of Estimate | PSR |
| | Pr | rogram Code: | |
| | | Post Miles | 33.4/33.9 |
| | | EA | 25720K |
| | | Project No. | |
| | • | | |
| | PROJECT DESCRIPTION | | |
| | | | • |
| Project Title: | Palo Comado Canyon Rd Interchange | | • |
| | | | |
| Limits: | Post Mile 33.4/33.9 | | |
| | Overcrossing widening . US 101 NB off-ramp and o | n ramp modification | |
| Proposed Improvements: | Overcrossing widening . Oo TOT No on-ramp and o | n-ramp mounication. | |
| | | | |
| Alternative Project: | Alternative 3 (Improvements Outside Caltra | ns R/M) | |
| Alternative Froject. | Antimative of improvements outside outside | 110 1011) | |
| | | | |
| Project Costs | ROADWAY ITEMS | | \$5,140,000 |
| | | | |
| | STRUCTURE ITEMS | .* | \$0 |
| | | _ | |
| | SUBTOTAL CONSTRUCTION | | \$5,140,000 |
| | | | |
| | RIGHT OF WAY (Current Value) | | \$1,317,500 |
| | | - | |
| | TOTAL PROJECT CAPITAL OUTLAY COSTS | | \$6,457,500 |
| | | <u>_</u> | |
| | ENGINEERING, CONSTRUCTION MANAGEMENT | | \$771,000 |
| | & PROJECT ADMINISTRATION | | |
| • | TOTAL PROJECT COST | - | \$7,228,500 |
| | 11 A | | \$7,220,500 |
| | Marilar | | |
| Prepared By: | pu uu | Date: 2/25/2009 | |
| · roperod by | Hui lui Swaloo there | 2.20,2000 | |
| | 0 1 -+ 0 . | | |
| Reviewed By | Suapenles | Date: 2/25/2009 | |
| | | | |

I. ROADWAY ITEMS

| | | | | • | 4 |
|---|---------------------------------------|-------|------------------|------------------------|--------------|
| Section 1 - Earthwork | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Clearing & Grubbing | 1 | LS | \$7,000 | \$7,000 | |
| Roadway Excavation | 13,603 | CY | \$25.65 | \$348,911 | |
| Import Borrow | | CY | | \$0 | |
| Develop Water Supply | 1 | LS | \$18,000 | \$18,000 | - |
| Structure Approach Embankment | 0 | CY | \$20.22 | <u> </u> | |
| | | | | Total Earthwork | \$373,911 |
| Section 2 - Structural Section | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| PCC Pavement | Quartity | CY | Other files | • \$0 | Occion Cost |
| | 3,117 | TON | \$76.00 | \$236,875 | |
| Asphalt Concrete (Type B) | 3,117 | SQ FT | \$70.00 | \$0 | • |
| Asphalt Concrete (Misc. Area) | · · · · · · · · · · · · · · · · · · · | LF | | | - |
| Asphalt Concrete Dike (Type C) | | | | \$0 | |
| Asphalt Concrete Dike (Type D) | | LF | #545.00 | <u>\$0</u> | - |
| JPCP | 0 | CY | \$545.09 | \$0 | - |
| Asphalt Concrete (Open Graded) | : | TON | | \$0 | |
| LCB (Rapid Setting) | 1,592 | CY | \$174.68 | \$278,130 | |
| Cold Plane Asphalt Concrete Pavement | | SQ YD | | \$0 | - |
| Minor Concrete (Sidewalk and C&G Type A2-6) | 329 | CY | <u>\$441.60</u> | \$145,358 | - |
| Aggregate Base (Class 3) | 3,052 | CY | \$68.97 | \$210,480 | |
| | | | | Total Structural Items | \$870.843° |
| | . | | | | |
| Section 3 - Drainage | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Project Drainage | 1 1 | LS | \$186,713 | \$186,713 | |
| Storm Drains | · | LS | <u>\$124,475</u> | \$124,475 | - |
| | * . | | | Total Drainage | \$311,189 |
| Section 4 - Specialty Items | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Retaining Wall | 9,754 | SQFT | \$100.00 | \$975,354 | |
| Erosion Control | 1 | LS | \$14,003 | \$14,003 | - |
| Water Poliution Control | . 1 | LS | \$99,000 | \$99,000 | • |
| Barriers and Guardrails | | LS | | \$0 | = |
| Highway Planting | | LS | | \$0 | - |
| Resident Engineer Office | | LS | | \$0 | • |
| Hazardous Waste Mitigation | | LS | | \$0 | - |
| Slope Protection | 1 | LS | \$10,000 | \$10,000 | - |
| | | | | | |
| | | | | Total Specialty Items | \$1,098,357 |
| Section 5 - Traffic Items | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Relocate Ramp Metering Cabinets | | LS | | \$0 | - |
| Traffic Delineation Items | 1 | LS | \$31,119 | \$31,119 | _ |
| Traffic Signal | | LS | | \$0 | _ |
| Roadside Signs | | LS | \$8,000.00 | \$8,000 | |
| Transportation Management Plan | 1 | LS | \$36,840 | \$36,840 | - |
| Construction Area Signs | 1 | · LS | \$20,000 | \$20,000 | |
| - | | | | | |
| | | | | | - |
| • | | | | ***_ £_ 8 *** *** >* | #BE AEA |
| | • | | * | Total Traffic Items | \$95,959 |
| • | | | | | |

SUBTOTAL SECTIONS 1-5 \$2,750,260

| | • | | • | |
|---|---------------|----------------|---------------|---------------------------------|
| Section 6 - Minor Items | | | | Unit Price Section 0 |
| 10% of Subtotal Sections 1-5 | 2,750,260 | X | 10% | \$275,026 |
| | | | . · · · · · · | Total Minor Items \$275, |
| B. C. B. B. d. B. B. B. B. B. B. B. | • | | Ļ | 1 Inite Dulan - Constinue C |
| Section 7 - Roadway Mobilization | | | | Unit Price Section (|
| Subtotal Sections 1-5 | 2,750,260 | | | |
| Minor Items | 275,026 | | | |
| Sum | 3,025,286 | X | 10% | \$302,529 |
| | | | | Total Mobilization \$302, |
| Section 8 - Roadway Additions | | | | |
| Supplemental | | | | |
| Subtotal Sections 1-5 | 2,750,260 | | | |
| Minor Items | 275,026 | | | |
| | • | V | 400/ | #202 F20 |
| Sum | 3,025,286 | X | 10% | \$302,529 |
| Contingencies | | | | |
| Subtotal Sections 1-5 | 2,750,260 | | | |
| Minor Items | 275,026 | | | |
| Sum | 3,025,286 | Х | 25% | \$756,321 |
| Escalation | | | | |
| Escalation Subtotal Sections 1-5 | 2,750,260 | | | |
| | | | | |
| Minor Items | 275,026 | · · | 450/ | #452 702 |
| Sum | 3,025,286 | Х | 15% | \$453,793 |
| | | | TOTAL RO | ADWAY ADDITIONS \$1,512, |
| Section 9 - Time Related Overhead | | | Time R | elated Overhead 10% \$302, |
| | | TOTA | | EMS, SECTIONS 1 - 9 \$5,142, |
| | | 7017 | CE ROADWAT II | LINO, OLO 110140 1 - 0 <u> </u> |
| II. STRUCTURES ITEMS | | | | |
| Bridge Name | [| | | |
| Structure Type | | | | |
| Width ft (out to out) | | | • | |
| Span Lengths, ft | | | | |
| Total Area, Sq Ft | _ | | | |
| Footing Type (Pile/Spread) | | | | |
| Cost Per Sq Ft (incl. 10% mobilization | | | | |
| , 25% contingency and 15% escalation) | | | | |
| Total Cost for Structure | | | • | |
| Description Deleted Control (Floration 9 Incorporation) | | • | | <u> </u> |
| Roadway Related Costs (Flag Man & Inspection) | | | | |
| | | | • | |
| III. RIGHT OF WAY | | | - | |
| | | Current Values | | |
| • | | (Future Use) | - | |
| A. Acquisition, including excess lands and | _ | | | |
| damages to remainder(s) | | \$839,000 | | |
| B. Utility Relocation | - | \$433,500 | | |
| C. Clearance/Demolition | - | , | | |
| D. RAP | - | | | |
| E. Title and Escrow Fees | - | \$45,000 | | |
| F. Construction Contract Work | - | \$150,000 | | |
| i . Construction Contract Work | - | φ100,000 | • | |
| Total Right of Way (C | urrent Value) | \$1,317,500 | | |
| Total Night of Way (O | uncin value) | Ψ1,01.1,000 | * • | |

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PRELIMINARY PROJECT COST ESTIMATE SUMMARY

DIST-CO-RTE

07 - LA - 101

| | Type of Estimate | PSR |
|------------------------|--|--------------|
| | Program Code: | |
| | Post Miles | 33.4/33.9 |
| | EA | 25720K |
| | Project No. | |
| | PROJECT DESCRIPTION | |
| Project Title: | Palo Comado Canyon Rd Interchange | |
| Limits: | Post Mile 33.4/33.9 | |
| Proposed Improvements: | Overcrossing widening . US 101 NB off-ramp and on-ramp modification. | |
| Alternative Project: | Alternative 3A (Improvements Within Caltrans R/W) | |
| Project Costs | ROADWAY ITEMS | \$9,480,000 |
| | STRUCTURE ITEMS | \$4,812,000 |
| | SUBTOTAL CONSTRUCTION | \$14,292,000 |
| | RIGHT OF WAY (Current Value) | \$174,000 |
| | TOTAL PROJECT CAPITAL OUTLAY COSTS | \$14,466,000 |
| | ENGINEERING, CONSTRUCTION MANAGEMENT & PROJECT ADMINISTRATION | \$2,144,000 |
| | TOTAL PROJECT COST | \$16,610,000 |
| Prepared By | E | |
| Reviewed By | : Surafaitlet Date: 2/25/2009 | |

I, ROADWAY ITEMS

| Section 1 - Earthwork | Quantity | Unit | Unit Price | Unit Cost Section Cost |
|--|--------------------|----------------|-----------------------------------|------------------------------------|
| Clearing & Grubbing | 1 | LS | \$16,000.00 | <u>\$16,000</u> |
| Roadway Excavation | 8,344 | CY | \$25.65 | \$214,025 |
| Import Borrow | | CY | · | \$0 |
| Develop Water Supply | 1 | LS | \$11,000.00 | \$11,000 |
| Structure Approach Embankment | 2,178 | CY | \$20.22 | \$44,049 |
| | | | | Total Earthwork \$285,074 |
| | | | | <u> </u> |
| Section 2 - Structural Section | Quantity | Unit | Unit Price | Unit Cost Section Cost |
| PCC Pavement | | CY | | \$0 |
| Asphalt Concrete (Type B) | 1,340 | TON | \$76.00 | \$101,830 |
| Asphalt Concrete (Misc. Area) | | SQ FT | | \$0 |
| Asphalt Concrete Dike (Type C) | | LF | | \$0 |
| Asphalt Concrete Dike (Type D) | | LF | | <u> </u> |
| JPCP | 890 | CY | \$545.09 | \$485,360 |
| Asphalt Concrete (Open Graded) | | TON | | \$0_ |
| LCB (Rapid Setting) | 1,104 | CY | \$174.68 | \$192,760 |
| Cold Plane Asphalt Concrete Pavement | | SQ YD | | \$0 |
| Minor Concrete (Sidewalk and C&G Type A2-6) | 39 | CY | \$441.60 | \$17,38 <u>4</u> |
| Aggregate Base (Class 3) | 1,940 | CY | \$68.97 | \$133,833 |
| | <u> </u> | | | |
| | ······ | | | Total Structural Items \$931,167 |
| | | | | Total Galactalal Items — \$001,101 |
| Section 3 - Drainage | Quantity | Unit | Unit Price | Unit Cost Section Cost |
| Project Drainage | 1 | LS | \$182,436 | \$182,436 |
| Storm Drains | 1 | LS | \$121,624 | \$121,624 |
| | | | | Total Drainage \$304,060 |
| Castian 4 Supplietty Home | Quantity | Unit | Unit Price | Unit Cost Section Cost |
| Section 4 - Specialty Items | Quantity 18,463 | SQFT | \$100.00 | \$1,846,274 |
| Retaining Wall Erosion Control | | | | |
| Water Pollution Control | 1 | LS | \$11,000 | \$11,000 |
| Treatment BMP's | 11 | LS | \$285,840 | \$285,840 |
| | 1 | LS | \$277,200 | \$277,200 |
| Barriers and Guardrails | 1 | LS | \$30,000 | \$30,000 |
| Highway Planting | 1 | LS | \$40,000 | \$40,000 |
| Resident Engineer Office | 1 | LS | \$120,000 | \$120,000 |
| Hazardous Waste Work | | LS | \$250,000 | \$250,000 |
| Enviromental Mitigation | 11 | LS | \$100,000 | \$100,000 |
| Landscape and Irrigation | 1 | LS | \$50,000 | \$50,000 |
| Slope Protection | | LS | \$15,000 | \$15,000 |
| Plant Establishment Work | 1 | LS | \$20,000 | \$20,000 T-t-1 0 |
| | | | | Total Specialty Items \$3,045,314 |
| Section 5 - Traffic Items | Quantity | Unit | Unit Price | Unit Cost Section Cost |
| Traffic Delineation Items | 1 | LS | \$30,406 | \$30,406 |
| | | | | |
| Traffic Signal and Lighting | 11 | LS | \$175,000 | \$175,000 |
| Traffic Signal and Lighting Roadside Signs (new and relocate) | | LS LS | \$175,000 \$25,000 | \$175,000 \$25,000 |
| <u> </u> | 1 | | | |
| Roadside Signs (new and relocate) | 1 1 | LS | \$25,000 | \$25,000 |
| Roadside Signs (new and relocate) Transportation Management Plan | 1 1 | LS LS | \$25,000 \$147,360 | \$25,000 \$147,360 |
| Roadside Signs (new and relocate) Transportation Management Plan Overhead Guide Sign | 1 1 1 | LS LS LS | \$25,000 \$147,360 \$80,000 | \$25,000 \$147,360 \$80,000 |

Total Traffic Items \$502,766
SUBTOTAL SECTIONS 1-5 \$5,068,381

| Section 6 - Minor Items | | | | | Unit Price | |
|--|-----------|-----------|--|--------|---|------------------------|
| 10% of Subtotal Sections 1-5 | : | 5,068,381 | X | 10% | \$506,838 | |
| | | | | | Total Minor Items | \$506,83 |
| Section 7 - Roadway Mobilization | | | | * | Unit Price | Section Cos |
| Subtotal Sections 1-5 | | 5,068,381 | | | | |
| Minor Items | | 506,838 | | | | |
| Sum | | 5,575,220 | X | 10% | \$557,522 | |
| | | | | | Total Mobilization | \$557,52 |
| Section 8 - Roadway Additions | | | | | | |
| Supplemental | | | | | | |
| Subtotal Sections 1-5 | | 5,068,381 | | | | |
| Minor Items | | 506,838 | | | | |
| Sum | | 5,575,220 | x | 10% | \$557,522 | |
| | | | | | | |
| Contingencies | | | | | | |
| Subtotal Sections 1-5 | | 5,068,381 | | | | |
| Minor Items | | 506,838 | | | _ | |
| Sum | | 5,575,220 | X | 25% | \$1,393,805 | |
| Escalation | | | • | | | |
| Subtotal Sections 1-5 | | 5,068,381 | | | | |
| Minor Items | | 506,838 | | | | |
| Sum | | 5,575,220 | х | 15% | \$836,283 | |
| Oun | | 0,010,220 | ^ | | | |
| Section 9 - Time Related Overhead | | | тоти | Time R | ADWAY ADDITIONS elated Overhead 10% EMS, SECTIONS 1 - 9 | \$557,52 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name | | | | Time R | elated Overhead 10% | \$557,52 |
| | | | Chesebro Rd Overcrossing | Time R | elated Overhead 10% | \$557,52 |
| II. STRUCTURES ITEMS Bridge Name | | | Chesebro Rd | Time R | elated Overhead 10% | \$557,52 |
| II. STRUCTURES ITEMS Bridge Name Structure Type | | | Chesebro Rd Overcrossing (Widen) | Time R | elated Overhead 10% | \$557,52 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) | | | Chesebro Rd Overcrossing (Widen) | Time R | elated Overhead 10% | \$557,52 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft | | | Chesebro Rd Overcrossing (Widen) 90.00 234 | Time R | elated Overhead 10% | \$557,52 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft | | | Chesebro Rd Overcrossing (Widen) | Time R | elated Overhead 10% | \$557,52 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) | | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 | Time R | elated Overhead 10% | \$557,52 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization | | | Chesebro Rd Overcrossing (Widen) 90.00 234 | Time R | elated Overhead 10% | \$557,52 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation |) | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 | Time R | elated Overhead 10% | \$557,52 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization |) | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization, 25% contingency and 15% escalation Total Cost for Structure | | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation | | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation Total Cost for Structure Roadway Related Costs (Flag Man & Inc.) | | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization, 25% contingency and 15% escalation Total Cost for Structure | | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 \$228 \$4,812,000 | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation Total Cost for Structure Roadway Related Costs (Flag Man & Inc.) | | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 \$228 \$4,812,000 | Time R | elated Overhead 10% | |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation Total Cost for Structure Roadway Related Costs (Flag Man & Inc.) III. RIGHT OF WAY | spection) | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 \$228 \$4,812,000 | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization, 25% contingency and 15% escalation Total Cost for Structure Roadway Related Costs (Flag Man & Inc.) III. RIGHT OF WAY A. Acquisition, including excess lands | spection) | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 \$228 \$4,812,000 Current Values (Future Use) | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation Total Cost for Structure Roadway Related Costs (Flag Man & Inc. III. RIGHT OF WAY A. Acquisition, including excess lands damages to remainder(s) | spection) | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 \$228 \$4,812,000 Current Values (Future Use) | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation Total Cost for Structure Roadway Related Costs (Flag Man & In: III. RIGHT OF WAY A. Acquisition, including excess lands damages to remainder(s) B. Utility Relocation | spection) | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 \$228 \$4,812,000 Current Values (Future Use) | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization, 25% contingency and 15% escalation Total Cost for Structure Roadway Related Costs (Flag Man & Inc. III. RIGHT OF WAY A. Acquisition, including excess lands damages to remainder(s) B. Utility Relocation C. Clearance/Demolition | spection) | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 \$228 \$4,812,000 Current Values (Future Use) | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization, 25% contingency and 15% escalation Total Cost for Structure Roadway Related Costs (Flag Man & Inc. III. RIGHT OF WAY A. Acquisition, including excess lands damages to remainder(s) B. Utility Relocation C. Clearance/Demolition D. RAP | spection) | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 \$228 \$4,812,000 Current Values (Future Use) \$129,000 \$0 | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |
| II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization, 25% contingency and 15% escalation Total Cost for Structure Roadway Related Costs (Flag Man & Inc. III. RIGHT OF WAY A. Acquisition, including excess lands damages to remainder(s) B. Utility Relocation C. Clearance/Demolition | spection) | | Chesebro Rd Overcrossing (Widen) 90.00 234 21,060 \$228 \$4,812,000 Current Values (Future Use) | Time R | elated Overhead 10% | \$557,52 \$9,477,87 |

PRELIMINARY PROJECT COST ESTIMATE SUMMARY

| | וט | SI-CO-RIE | U/ - LA - 101 |
|------------------------|---|------------------------|---------------|
| | Тур | oe of Estimate | PSR |
| • | | ogram Code: | |
| | | Post Miles | 33.4/33.9 |
| | | EA | 25720K |
| | + | Project No. | |
| | PROJECT DESCRIPTION | | |
| Project Title: | Palo Comado Canyon Rd Interchange | | |
| Limits: | Post Mile 33.4/33.9 | | |
| Proposed Improvements: | Overcrossing widening . US 101 NB off-ramp and or | n-ramp modification. | |
| Alternative Project: | Alternative 3A (Improvements Outside Caltra | ans R/W) | |
| Project Costs | ROADWAY ITEMS | | \$5,520,000 |
| | STRUCTURE ITEMS | | \$0 |
| | SUBTOTAL CONSTRUCTION | | \$5,520,000 |
| | RIGHT OF WAY (Current Value) | | \$1,317,500 |
| | TOTAL PROJECT CAPITAL OUTLAY COSTS | | \$6,837,500 |
| | ENGINEERING, CONSTRUCTION MANAGEMENT & PROJECT ADMINISTRATION | | \$828,000 |
| | TOTAL PROJECT COST | | \$7,665,500 |
| Prepared By: | - Vui lui | Date: <u>2/25/2009</u> | . 1 |
| Reviewed By: | Surafachlule | Date: 2/25/2009 | |
| | | | |

I. ROADWAY ITEMS

| Clearing & Gruphing | Quantity | Unit | Unit Price | | Section Cost |
|---|----------------|--|---|--|---------------------------|
| Clearing & Grubbing | 1 | LS | \$7,000 | \$7,000 | |
| Roadway Excavation | 13,603 | CY | \$25.65 | \$348,911 | |
| Import Borrow | | CY | | \$0 | |
| Develop Water Supply | 1 | LS | \$18,000 | \$18,000 | |
| Structure Approach Embankment | <u> </u> | CY | \$20.22 | \$0_ | |
| • | | | | Total Earthwork | \$373,911 |
| Section 2 - Structural Section | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| PCC Pavement | · | CY | | \$0 | |
| Asphalt Concrete (Type B) | 3,522 | TON | \$76.00 | \$267,655 | |
| Asphalt Concrete (Misc. Area) | | SQ FT | | \$0 | |
| Asphalt Concrete Dike (Type C) | | LF | | \$0 | |
| Asphalt Concrete Dike (Type D) | | LF | | \$0 | |
| JPCP _ | 0 | CY | \$545.09 | \$0 | |
| Asphalt Concrete (Open Graded) | | TON | | \$0 | |
| LCB (Rapid Setting) | 1,799 | CY | \$174.68 | \$314,270 | |
| Cold Plane Asphalt Concrete Pavement | <u></u> | SQ YD | | \$0 | |
| Minor Concrete (Sidewalk and C&G Type A2-6) | 329 | CY | \$441.60 | \$145,358 | |
| Aggregate Base (Class 3) | 3,448 | CY | \$68.97 | \$237,830 | |
| _ | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | |
| | | | | Total Structural Items | \$965,113 |
| Section 3 - Drainage | Quantity | Unit | Unit Price | Unit Cost | Section Cost |
| Project Drainage | 1 | LS | \$200,854 | \$200,854 | |
| Storm Drains | 1 | LS | \$133,902 | \$133,902 | |
| Section 4 - Specialty Items | Quantity | Unit | Unit Price | Total Drainage Unit Cost | \$334,756 Section Cost |
| Retaining Wall | 10,504 | | OTINET TIOC | Onit Cost | |
| | | SOFI | \$100.00 | \$1.050.354 | ***** |
| Erosion Control | | SQFT | \$100.00 \$15.064 | \$1,050,354 \$15,064 | |
| - | 1 | LS | \$15,064 | \$15,064 | •*** |
| Water Pollution Control | | LS LS | | \$15,064 \$110,400 | |
| Water Pollution Control Barriers and Guardrails | 1 | LS LS LS | \$15,064 | \$15,064 \$110,400 \$0 | |
| Water Pollution Control Barriers and Guardrails Highway Planting | 1 | LS LS LS | \$15,064 | \$15,064 \$110,400 \$0 \$0 | |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office | 1 | LS LS LS LS | \$15,064 | \$15,064 \$110,400 \$0 \$0 \$0 | |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation | 1 | LS LS LS LS LS | \$15,064 \$110,400 | \$15,064 \$110,400 \$0 \$0 \$0 \$0 | |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation | 1 | LS LS LS LS | \$15,064 | \$15,064 \$110,400 \$0 \$0 \$0 | |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation | 1 | LS LS LS LS LS | \$15,064 \$110,400 | \$15,064 \$110,400 \$0 \$0 \$0 \$0 \$0 \$6,000 | |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation Slope Protection | 1 | LS LS LS LS LS LS LS | \$15,064 \$110,400 \$6,000 | \$15,064 \$110,400 \$0 \$0 \$0 \$0 \$0 \$6,000 | \$1,181,818 |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation Slope Protection Section 5 - Traffic Items | 1 | LS LS LS LS LS LS LS LS Unit | \$15,064 \$110,400 | \$15,064 \$110,400 \$0 \$0 \$0 \$0 \$6,000 Total Specialty Items | |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation Slope Protection Section 5 - Traffic Items Relocate Ramp Metering Cabinets | 1 1 Quantity | LS LS LS LS LS LS LS LS LS | \$15,064 \$110,400 \$6,000 | \$15,064 \$110,400 \$0 \$0 \$0 \$6,000 Total Specialty Items Unit Cost \$0 | \$1,181,818 |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation Slope Protection Section 5 - Traffic Items Relocate Ramp Metering Cabinets Traffic Delineation Items | 1 | LS | \$15,064 \$110,400 \$6,000 | \$15,064 \$110,400 \$0 \$0 \$0 \$0 \$6,000 Total Specialty Items Unit Cost \$0 \$33,476 | \$1,181,818 |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation Slope Protection Section 5 - Traffic Items Relocate Ramp Metering Cabinets Traffic Delineation Items Traffic Signal | 1 1 Quantity | LS | \$15,064 \$110,400 \$6,000 Unit Price \$33,476 | \$15,064 \$110,400 \$0 \$0 \$0 \$0 \$0 \$6,000 Total Specialty Items Unit Cost \$0 \$33,476 \$0 | \$1,181,818 |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation Slope Protection Section 5 - Traffic Items Relocate Ramp Metering Cabinets Traffic Delineation Items Traffic Signal Roadside Signs | 1 1 Quantity 1 | LS | \$15,064 \$110,400 \$6,000 Unit Price \$33,476 \$8,000 | \$15,064 \$110,400 \$0 \$0 \$0 \$0 \$6,000 Total Specialty Items Unit Cost \$0 \$33,476 \$0 \$8,000 | \$1,181,818 |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation Slope Protection Section 5 - Traffic Items Relocate Ramp Metering Cabinets Traffic Delineation Items Traffic Signal Roadside Signs Transportation Management Plan | 1 1 Quantity | LS L | \$15,064 \$110,400 \$6,000 Unit Price \$33,476 \$8,000 \$36,840 | \$15,064 \$110,400 \$0 \$0 \$0 \$0 \$0 \$6,000 Total Specialty Items Unit Cost \$0 \$33,476 \$0 | \$1,181,818 |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation Slope Protection Section 5 - Traffic Items Relocate Ramp Metering Cabinets Traffic Delineation Items Traffic Signal Roadside Signs Transportation Management Plan | 1 1 Quantity 1 | LS | \$15,064 \$110,400 \$6,000 Unit Price \$33,476 \$8,000 | \$15,064 \$110,400 \$0 \$0 \$0 \$0 \$6,000 Total Specialty Items Unit Cost \$0 \$33,476 \$0 \$8,000 | \$1,181,818 |
| Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation Slope Protection Section 5 - Traffic Items Relocate Ramp Metering Cabinets Traffic Delineation Items Traffic Signal Roadside Signs Transportation Management Plan | 1 1 Quantity 1 | LS L | \$15,064 \$110,400 \$6,000 Unit Price \$33,476 \$8,000 \$36,840 | \$15,064 \$110,400 \$0 \$0 \$0 \$0 \$0 \$6,000 Total Specialty Items Unit Cost \$0 \$33,476 \$0 \$8,000 \$36,840 | \$1,181,818 |
| Erosion Control Water Pollution Control Barriers and Guardrails Highway Planting Resident Engineer Office Hazardous Waste Mitigation Slope Protection Section 5 - Traffic Items Relocate Ramp Metering Cabinets Traffic Delineation Items Traffic Signal Roadside Signs Transportation Management Plan Construction Area Signs | 1 1 Quantity 1 | LS L | \$15,064 \$110,400 \$6,000 Unit Price \$33,476 \$8,000 \$36,840 | \$15,064 \$110,400 \$0 \$0 \$0 \$0 \$0 \$6,000 Total Specialty Items Unit Cost \$0 \$33,476 \$0 \$8,000 \$36,840 | \$1,181,818 |

| Section 6 - Minor Items | | | | Unit Price Section Co |
|--|------------|--|---------------------------|---|
| 10% of Subtotal Sections 1-5 | 2,953,914 | Χ | 10% | \$295,391 |
| | | | | Total Minor Items \$295,39 |
| | | | N. | |
| Section 7 - Roadway Mobilization | | | • | Unit Price Section Co |
| Subtotal Sections 1-5 | 2,953,914 | | | |
| Minor Items | 295,391 | | | |
| Sum | 3,249,305 | Х | 10% | \$324,931 |
| | | | | Total Mobilization \$324,93 |
| Section 8 - Roadway Additions | | | | |
| Supplemental | | | | |
| Subtotal Sections 1-5 | 2.052.044 | | | |
| | 2,953,914 | | | |
| Minor Items | 295,391 | | | |
| Sum | 3,249,305 | Х | 10% | \$324,931 |
| Contingencies | | | | |
| Subtotal Sections 1-5 | 2,953,914 | | | |
| Minor Items | 295,391 | | | |
| | 3,249,305 | Х | 25% | \$812,326 |
| Sum | 3,249,305 | ^ | 25% | φο12,320 |
| Escalation | | | | |
| Subtotal Sections 1-5 | 2,953,914 | | | |
| Minor Items | 295,391 | | | • |
| Million Romo | | v | 15% | \$487,396 |
| Sum | 3 2244 305 | | | |
| Sum | 3,249,305 | Х | | |
| Sum | 3,249,305 | ^ | | |
| | 3,249,305 | ^ | TOTAL R | COADWAY ADDITIONS \$1,624,65 |
| | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) | 3,249,305 | | TOTAL R | **COADWAY ADDITIONS \$1,624,65** Related Overhead 10% \$324,93** |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) | 3,249,305 | | TOTAL R | ### STATES NAME |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure | | | TOTAL R | ### COADWAY ADDITIONS |
| Section 9 - Time Related Overhead ii. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization | | | TOTAL R | ### COADWAY ADDITIONS #1,624,65 Related Overhead 10% #324,93 ITEMS, SECTIONS 1 - 9 #55,523,81 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | | | TOTAL R | ### COADWAY ADDITIONS |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | n) | TC | TOTAL R Time PTAL ROADWAY | ### COADWAY ADDITIONS #1,624,65 Related Overhead 10% #324,93 ITEMS, SECTIONS 1 - 9 #55,523,81 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | n) | Current Values | TOTAL R Time PTAL ROADWAY | ### COADWAY ADDITIONS #1,624,65 Related Overhead 10% #324,93 ITEMS, SECTIONS 1 - 9 #55,523,81 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | n) | TC | TOTAL R Time PTAL ROADWAY | ### COADWAY ADDITIONS #1,624,65 Related Overhead 10% #324,93 ITEMS, SECTIONS 1 - 9 #55,523,81 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection) | n) | Current Values | TOTAL R Time PTAL ROADWAY | ### COADWAY ADDITIONS #1,624,65 Related Overhead 10% #324,93 ITEMS, SECTIONS 1 - 9 #55,523,81 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspectio | n) | Current Values | TOTAL R Time OTAL ROADWAY | ### COADWAY ADDITIONS |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspectio III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) | n) | Current Values (Future Use) | TOTAL R Time OTAL ROADWAY | ### COADWAY ADDITIONS |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation | n) | Current Values | TOTAL R Time OTAL ROADWAY | ### COADWAY ADDITIONS #1,624,65 Related Overhead 10% #324,93 ITEMS, SECTIONS 1 - 9 \$5,523,85 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition | n) | Current Values (Future Use) | TOTAL R Time OTAL ROADWAY | ### COADWAY ADDITIONS #1,624,65 Related Overhead 10% #324,93 ITEMS, SECTIONS 1 - 9 \$5,523,85 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition D. RAP | n) | Current Values (Future Use) \$839,000 \$433,500 | TOTAL R Time OTAL ROADWAY | ### COADWAY ADDITIONS #1,624,65 Related Overhead 10% #324,93 ITEMS, SECTIONS 1 - 9 \$5,523,85 |
| Section 9 - Time Related Overhead II. STRUCTURES ITEMS Bridge Name Structure Type Width ft (out to out) Span Lengths, ft Total Area, Sq Ft Footing Type (Pile/Spread) Cost Per Sq Ft (incl. 10% mobilization , 25% contingency and 15% escalation) Total Cost for Structure Roadway Related Costs (Flag Man & Inspection III. RIGHT OF WAY A. Acquisition, including excess lands and damages to remainder(s) B. Utility Relocation C. Clearance/Demolition | n) | Current Values (Future Use) | TOTAL R Time OTAL ROADWAY | COADWAY ADDITIONS \$1,624,65 |

A representation

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ATTACHMENT F

PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT (PEAR)

Preliminary Environmental Analysis Report

FOR

U.S. 101/PALO COMADO CANYON ROAD INTERCHANGE IMPROVEMENT PROJECT

CITY OF AGOURA HILLS
LOS ANGELES COUNTY

Prepared by

PARSONS

February 2009

Preliminary Environmental Analysis Report

Project Information

Project Title: <u>U.S. 101/Palo Comado Canyon Road Interchange Improvement Project</u>

Project Manager: <u>Ravi B. Ghate</u>

Project Engineer: <u>Trilly Nguyen</u>

Phone # _213-897-7825

District 07 County Los Angeles Route U.S. 101 Kilometer Post (Post Mile) 33.0/34.4 EA 25720K

Environmental Branch Chief: <u>Carlos Montez</u> Phone # <u>213-897-9116</u>

Environmental Coordinator: Carlos Montez Phone # 213-897-9116

Prepared by Consultant: Parsons, Angela Schnapp Phone # 626-440-2427

Project Description

The City of Agoura Hills (City) proposes to improve the US-101 Palo Comado Canyon Road Interchange and the Palo Comado Canyon Road/Chesebro Road Intersection adjacent to the interchange, in Los Angeles County from post mile 33.0 to 34.4. The proposed work includes the widening of the US-101 Palo Comado Canyon Road Overcrossing (OC) from 1-lane to 2-lanes in each direction with median and sidewalks and the modification of the northbound on-ramps and the modification of signalized intersections to facilitate the increased volume of traffic using the interchange, improve flow, and enhance safety.

Purpose and Need

Purpose:

The purposes of the Palo Comado Canyon Road Interchange improvement project are:

- Provide improved access to the proposed new school
- Improve traffic circulation on the roadway network adjacent to the Palo Comado Canyon Road Interchange.
- Accommodate the forecasted increases in traffic volume resulting from future developments.
- Improve the safety and operational level-of-service for the US-101 Palo Comado Canyon Road Interchange.

Need:

Currently, the distance between the existing Canwood Street intersection with Palo Comado Canyon Road and the US-101 northbound ramps at Chesebro Road is less than 100 feet. This configuration presents a non-standard access control distance beyond the northbound off-ramp termini and it does not have the capacity to handle the forecasted increase traffic demand. Furthermore, the planned developments around Chesebro Road, Palo Comado Canyon Road, and Canwood Street west of the Palo Comado Canyon Road, will increase the traffic volumes on the local roadway network as well as the US-

101 interchange substantially. Roadway improvements are needed to keep traffic operation Level-of-Service (LOS) on the roadways and intersections within acceptable range.

The needs for this project are:

- Proposed development of the vacant lands adjacent to the interchange will increase traffic volumes around the area and improvements to the interchange and the roadway network are needed to accommodate the additional traffic demands and relieve congestion.
- The existing access road, Canwood Street, has an intersection approximately 50 feet from the existing northbound on-ramp intersection at the Palo Comado Canyon Road Interchange. Improvements are needed to provide better access control and traffic circulation.

Proposed Alternatives

Alternative 1: No Build

The No Build Alternative would maintain the configuration of the US 101/Palo Comado Canyon Road interchange and the Palo Comado Canyon Road/Canwood Street intersection as proposed under the Heschel School project. The northbound ramp intersection at Palo Comado Canyon Road will include a fifth leg to Canwood Street, and the intersection will be signalized. The Palo Comado Canyon Road Overcrossing would remain as a two-lane road and would not accommodate the future traffic demand. Congestion would not be alleviated, and the situation would deteriorate with time. There are no construction or right-of-way costs associated with this alternative.

Alternative 2: Widen Palo Comado Canyon Road and Overcrossing and Maintain Tight Diamond Ramps

This alternative proposes to maintain the existing tight diamond configuration of the northbound ramps and widen the entire length of Palo Comado Canyon Road and the existing overcrossing from 2 lanes to 4 lanes. The project would provide access to Heschel School via a new signalized intersection on Palo Comado Canyon Road between the northbound ramps and Driver Avenue. The project would eliminate the fifth leg (i.e. Canwood Street) at the existing Palo Comado Canyon Road, northbound ramps, and Canwood Street intersection that is proposed as part of the school project. Canwood Street, east of Palo Comado Canyon Road, would be closed. The northbound ramps intersection would be modified to provide standard approach angles, and the traffic signals would be modified.

Alternative 3: Widen Palo Comado Canyon Road and Construct Northbound Hook Off-Ramp

This alternative proposes to reconfigure the northbound off-ramp to a partial Type L-6 hook ramp and widen the entire length of Palo Comado Canyon Road and the existing overcrossing from 2 lanes to 4 lanes. The school driveway would be relocated to the eastern end of Canwood Street approximately 60 feet east of the proposed hook off-ramp. The existing tight diamond northbound off-ramp would be removed, and the frontage road (i.e., Canwood Street) would be realigned and reconstructed to provide 2 lanes in each direction. The intersection at Palo Comado Canyon Road and Canwood Street would be signalized and reconfigured so that westbound Canwood Street would have dual left-turn lanes to southbound Palo Comado Canyon Road, one shared through/right-turn lane to the northbound on-ramp and northbound Palo Comado Canyon Road, and one right-turn lane to northbound Palo Comado Canyon Road. The intersection at the proposed hook off-ramp and Canwood Street would be signalized, and the hook off-ramp would be configured with a right-turn lane and dual left-turn lanes to eastbound and westbound Canwood Street, respectively. Overhead lane usage signs and traffic markings are recommended to guide motorists on the northbound off-ramp and westbound Canwood Street. This alternative would widen the existing overcrossing and its approaches from 2 lanes to 4 lanes, similar to Alternative 2. The existing northbound tight diamond on-ramp would be modified to provide a standard approach angle at the intersection with Palo Comado Canyon Road.

Alternative 3A: Widen Palo Comado Canyon Road with Full Overcrossing Replacement and Construct Northbound Hook Off-Ramp

This alternative is identical to Alternative 3 except that the existing Palo Comado Canyon Road overcrossing will be replaced instead of being widened. The overcrossing and its approaches will be constructed at a higher vertical profile to allow for a standard vertical clearance over the US 101.

Anticipated Environmental Approval

| | <u>CEQA</u> | | NEPA |
|-------------|---------------------------------|-------------|--|
| | Categorical/Statutory Exemption | | Categorical Exclusion |
| \boxtimes | Initial Study (IS)/Mitigated | \boxtimes | Environmental Assessment (EA)/ |
| | Negative Declaration (MND) | | Finding of No Significant Impact (FONSI) |
| | Environmental Impact Report | | Environmental Impact Statement |

The project would require the preparation of environmental documentation pursuant to the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). The California Department of Transportation (Caltrans) would be the lead agency under CEQA and would be the lead agency under the assumption of responsibility pursuant to the 23 U.S.C. 327, NEPA delegation. Based on preliminary review and subject to confirmation after the completion of appropriate supporting technical studies, there do not appear to be any significant impacts after the application of appropriate mitigation measures associated with the proposed Build Alternative. Further study is expected to confirm that the project features and mitigation would reduce the project impacts to a less than significant level pursuant to CEQA. Therefore, it is recommended that an Initial Study (IS)/Environmental Assessment (EA) be prepared, which is expected to lead to a Mitigated Negative Declaration (MND) (pursuant to CEQA) and Finding of No Significant Impact (FONSI) (pursuant to NEPA). It is expected that approximately 8 to 12 months would be needed to complete the required technical studies and process the environmental documentation. A final determination on the type of documentation to be produced will be determined based on findings of the technical studies and evaluation of proposed mitigation measures.

Summary Statement

The preliminary investigation of the proposed project focused on impacts associated with Palo Comado Canyon Road/U.S. 101 interchange improvements. Based upon this Preliminary Environmental Analysis Report (PEAR), it does not appear that there are any significant impacts associated with the proposed Build Alternative for the proposed project with mitigation measures incorporated.

The following technical studies will be prepared as part of this Project Study Report (PSR) and the PEAR to provide support to the type of environmental compliance decision and to address the impacts and necessary mitigation measures of the proposed action:

- ✓ Initial Site Assessment (Attachments G and H of the PSR)
- ✓ Storm Water Data Report (Attachment I of the PSR)
- ✓ Preliminary Noise Assessment (Appendix A of the PEAR)
- ✓ Preliminary Air Quality Assessment (Appendix B of the PEAR)
- ✓ Preliminary Cultural Resources Assessment (provided as part of the PEAR)
- ✓ Paleontological Resources Records Check (Appendix C of the PEAR)
- Initial Biological Reconnaissance Technical Memorandum (provided as part of the PEAR)

Environmental issues under the proposed Build Alternative that could affect cost and/or schedules include noise, air quality, and hazardous materials.

The following table presents potential and anticipated permits required for this proposed project.

| Regulation and Description | Resource Agency |
|---|--|
| National Pollutant Discharge Elimination System (NPDES) – Storm Water Pollution Prevention Plan | California Water Resources Control Board |

Special Considerations

Implementation of the Build Alternative would require completion of a few technical studies and further evaluation of some environmental components as part of the environmental document preparation to evaluate and/or confirm potential environmental impacts. Preparation of the recommended technical studies and environmental document would require approximately 8 to 12 months to be completed. An environmental area that requires further study and/or mitigation, which has the potential to affect project costs and schedule, includes noise impacts. No other unusual, exceptional, or extended environmental processes are anticipated.

Anticipated Project Mitigation

<u>Community Impacts</u>: Impacts to the community during project construction could be minimized by keeping area residents and business owners informed of the project schedule, and coordinating closely with utility service providers to ensure that minimum disruption would occur. In addition, the contractor would develop a Traffic Management Plan for implementation during project construction to ensure that traffic impacts are minimized.

<u>Air quality:</u> An Air Quality Analysis would be conducted during the environmental document preparation phase when the detailed engineering design is developed. Air quality impacts during the construction phase could be minimized by implementing SCAQMD Rule 403 (PM₁₀ Control Measures) and requiring the contractor to follow current standard procedures to reduce/control construction equipment emissions. If potentially significant impacts on air quality are identified during the implementation phase, mitigation measures to minimize the impacts would be proposed.

Noise: A preliminary noise study was conducted. Based on the available information and the preliminary assessment, a soundwall appears to be required for first row residences located in the northwest quadrant of the Palo Comado Canyon Road/U.S. 101 interchange. A detailed noise study would be conducted to identify the specific length, appropriate heights, and exact location of the barrier, which can only be determined upon reviewing project drawings and plans. The feasibility and reasonability of recommended soundwalls would be determined during the detailed analysis.

<u>Water Quality:</u> Stormwater pollution prevention and treatment Best Management Practices (BMPs) would be incorporated in the project design to ensure that impacts to water quality are minimized.

<u>Paleontology:</u> Areas of deep excavation (i.e., deeper than 5 feet below surface grade) would be monitored for any vertebrate fossils. If found, the excavation activities would be temporarily halted to allow samples to be collected and analyzed for paleontological potential. Any fossils recovered during mitigation should be deposited in an accredited and permanent scientific institution.

<u>Hazardous Waste/Materials:</u> Prior to disposal of drilled soil and groundwater from the piling areas, sampling and analysis of the subject soil and groundwater would be conducted to determine the level of contamination to identify proper handling and disposal methods.

Prior to project construction, sampling and analysis of the liquids in the pole-top transformers would be conducted to determine if PCBs are present in the pole-top transformer fluid and to determine proper

disposal methods if the transformers are to be removed or properly handling methods if the transformers are to be relocated.

Prior to project construction, sampling and analysis of the joint compound in the overcrossing would be conducted to determine whether or not ACM is present in the joint compound and to determine proper disposal methods if ACM is found.

Prior to project construction, sampling and analysis of the paint striping on the roadways would be conducted to determine whether LBP is present in the lane striping paint and to determine proper disposal methods if lead is found.

Prior to project construction, sampling and analysis of surface soils from unpaved areas along the U.S. 101/Palo Comado Canyon Road interchange that are subject to excavation would be conducted to determine the level of total and soluble lead to allow proper excavated soil management, including onsite placement or offsite disposal.

Prior to project construction, sampling and analysis of soils from landscaped areas along U.S. 101/Palo Comado Canyon Road interchange that are subject to excavation would be conducted to determine the level of pesticides/herbicides contamination to identify a proper handling method.

<u>Biological Resources:</u> Mitigation for permanent impacts to sensitive biological resources (oak trees) may be required. Such mitigation may include avoidance (alignment modification) or tree replacement. The removal of any large trees would be scheduled outside the nesting and fledging season (i.e., after August).

<u>Invasive Species:</u> Exposed soil areas would be replanted with noninvasive vegetation, and equipment inspection and control would be performed to ensure that they are cleaned of potential noxious weed sources (i.e., mud and vegetation) before and after entering the project area. To the extent applicable, any topsoil removed to a depth of 6 inches during construction should be stockpiled onsite for subsequent use as fill needed directly onsite to avoid the spread of existing invasive plant species at the project site.

Cost estimate for the proposed mitigations are presented in Attachment A to this PEAR.

Disclaimer

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

| Reviewed by: | | |
|----------------------------|----|---------------|
| | | Date: 2/24/09 |
| Environmental Office Chief | | |
| Raw Chate | | Date: 2/15/09 |
| Project Manager | 4. | |

| Environmental Technical Reports or Studies Required | | | |
|--|--------------|----------|-----|
| Community Impact Study Farmland Section 4(f) Evaluation Visual Resources Water Quality Floodplain Evaluation Noise Study Air Quality Study Paleontology Wild and Scenic River Consistency Cumulative Impacts | Study Study | Document | N/A |
| Cultural ASR HSR HASR HPSR Section 106 / SHPO Native American Coordination Other Finding of Effect Data Recovery Plan | | | |
| Hazardous Waste ISA (Additional) PSI Other Site Investigation | | | |
| Biological Endangered Species (Federal) Endangered Species (State) Species of Concern (CNPS, USFS, BLM, S, F) Biological Assessment (USFWS, NMFS, State) Wetlands Invasive Species Natural Environment Study (Minimal Impacts) NEPA 404 Coordination | | | |
| Permits 401 Permit Coordination 404 Permit Coordination 1602 Permit Coordination City/County Coastal Permit Coordination State Coastal Permit Coordination NPDES Coordination US Coast Guard (Section 10) | | | |

Discussion of Technical Review

Alternative 1: No Build Alternative

Under the No Build Alternative, there would be no change to existing environmental conditions.

Alternative 2: Build Alternative

Socioeconomic and Community Effects

The project site is located in the City of Agoura Hills. According to the General Plan for the City of Agoura Hills, the project site does not have a specific land use designation. Existing land uses adjacent to the project area consist of commercial auto related, commercial retail/services, office, low density residential neighborhoods, business park offices, and local park uses. Zoning designations around the immediate vicinity of the project site include: P – Local Park; RL – Low Density Residential; CRS – Commercial Retail/Service; and BP-OR (Business Park – Office Retail).

Potential Impacts

During project construction, residents within the vicinity of the project site and motorists traveling along the nearby roadways may occasionally experience some inconvenience due to construction equipment and material obstruction. The impacts from roadway obstruction would cease at the completion of the project. The proposed project is intended to enhance roadway operation and safety; no potential adverse impacts to adjacent community members are foreseen.

Mitigation Measures

Community impacts during project construction could be minimized by keeping area residents and business owners informed of the project schedule and coordinating closely with utility service providers to ensure that minimum disruption would occur. In addition, the contractor would develop a Traffic Management Plan for implementation during project construction to ensure that traffic impacts are minimized.

Farm lands

The project site is not located within designated agricultural land. No impacts to farmland would occur.

4(f) Impacts

Section 4(f) of the U.S. Department of Transportation Act of 1966 mandates that special efforts be made to preserve public parks, recreation land, wildlife and waterfowl refuges, and historic sites. The proposed project would not involve the use of Section 4(f) properties; therefore, no impact to Section 4(f) properties would occur.

Visual Effects

The proposed U.S. 101/Palo Comado Canyon Road interchange improvements would occur primarily within the right-of-way of the existing roadway. Views from the project area and its vicinity are primarily of associated transportation and commercial infrastructures. No visual resources, including mature trees, exist within the project area. The majority of the proposed project would be constructed at or near existing grade; therefore, no obstruction of views to any group of viewers would occur.

Water Quality

The project site is located within the upper reach of the Malibu Creek Watershed, which is within the Santa Monica Bay Watershed Area. More specifically, the project area resides in the Santa Monica Bay Hydrologic Unit, Malibu Creek Hydrologic Area, and is within the Lindero Canyon Sub-Area, 404.23. Surface water from the proposed project site and immediate project vicinity is collected by designed flood control/storm drain facilities, and is eventually routed to Chesebro Creek, which is a tributary to Malibu Creek.

There are two Total Maximum Daily Loads (TMDLs) established within the Malibu Creek Watershed, which are:

Malibu Creek Nutrients TMDL

On March 21, 2003, in absence of State versions, the US Environmental Protection Agency (EPA) issued the Nutrients TMDL for the Malibu Creek watershed. The TMDL requires a special monitoring program to evaluate effectiveness of actions to reduce both dry and wet weather urban runoff.

Malibu Creek Watershed Bacteria TMDL

The Malibu Creek Watershed Bacteria TMDL became effective on January 24, 2006. Caltrans is working cooperatively with a group of Responsible Agencies to jointly comply with the TMDL. Project Engineer of projects located where dry weather diversion exists needs only consider infiltration devices for bacteria removal; however, all other projects shall consider both dry weather flow diversion and infiltration devices.

Potential Impacts

Construction Phase

The estimated soil disturbance area for this project is 4.8 acres, and was based on the alternative with the largest project footprint, which is Alternative 3. The project could result in water quality impacts to stormwater runoff during construction. Grading and excavation could result in soil erosion.

The major pollutant expected from construction sites is erosion related, where sediment-laden water flows into storm drains. Currently, the California Department of Transportation (Caltrans) has a statewide NPDES stormwater permit that covers all Caltrans work and projects within the state. All projects within Caltrans jurisdiction must conform to the requirements of the Caltrans Statewide NPDES Storm Water Permit, Order No. 99-06-DWO, NPDES No. CAS000003, adopted by the State Water Resources Control Board (SWRCB) on July 15, 1999. This permit allows Caltrans to operate, maintain, and construct on state rightof-way without applying for individual General Permits for each construction project. The permit requires Caltrans to adhere to the provisions of the Statewide General NPDES Permit for Construction Activities, Order No. 99-08-DWQ, NPDES No. CAS000002. The local agency project with construction activity within Caltrans right-of-way and has a total disturbed soil area greater than 1 acre, the local agency shall submit a Notice of Intent (NOI) to SWRCB at least 30 days prior to any soil disturbing activities. In addition, all projects are subject to the BMPs specified in the Caltrans Storm Water Management Plan (SWMP). The provisions and requirements of the permit are enforced by RWQCBs.

The SWPPP and Monitoring Program would be prepared and implemented prior to construction activities. The SWPPP would identify construction-period BMPs to reduce water quality impacts. The SWPPP would emphasize (1) temporary erosion control measures to reduce sedimentation and turbidity of surface runoff from disturbed areas, (2) personnel training, (3) scheduling and implementation of BMPs during construction and for the various seasons (noting that the rainy season is from October 1 to May 1), (4) identification of non-stormwater discharge BMPs, and (5) mitigation and monitoring during construction.

Typical erosion control measures to be used to address site soil stabilization and reduce deposition of sediments in the adjacent surface waters would include the application of soil stabilizers such as hydroseeding, netting, erosion control mats, rock slope protection, velocity dissipation devices, and flared end sections for culverts.

The proposed project would be constructed to minimize erosion by incorporating retaining walls to reduce the steepness of slopes or to shorten slopes; providing cut and fill slopes flat enough to allow revegetation and limit erosion to preconstruction rates; and collecting concentrated flows in stabilized drains and channels. Alternative materials or facilities could also be utilized to reduce future maintenance impacts on water quality, and the design of the project would allow for the ease of maintenance. Additionally, the project could be scheduled and phased to minimize soil-disturbing work during the rainy season.

Implementation Phase

The project would result in an increase of 2.2 acres in impervious surface in the project area. This could be expected to translate into localized increases in urban runoff. Potential pollutants found on streets and freeways include heavy metals, organic compounds (including petroleum hydrocarbons), sediments, trash, debris, oil, and grease. Drainage along the freeway alignment is away from the freeway pavement towards designed collection along the roadway.

As described in the Caltrans SWMP, BMPs are designed and implemented to reduce the discharge of pollutants from the Caltrans storm drain system to the maximum extent practicable. This would require the onsite drainage system to be designed with a BMP concept in place that maximizes pollutant removal while taking into account economic constraints related to maintenance, right-of-way, and construction costs. According to the Stormwater Data Report prepared for this project, permanent treatment BMPs that are deemed appropriated and are evaluated for the project include biofiltration swales. Adequate space does not exist for the placement of infiltration basins, detention basins, or media filters within the project limits. Traction Sand Traps, Dry Weather Flow Diversion, and Wet Basins are not feasible. Gross Solids Removal Devices are not proposed because the receiving waters are not on the 303(d) list for trash. None of the proposed treatment BMP locations serve a "critical source area"; therefore, multi-chambered treatment trains are not feasible and are not proposed. The selected BMP would be designed to treat 100 percent of the water quality volume generated from the project site.

Mitigation Measures

With incorporation of the BMPs described above in the project design, no additional mitigation measures would be required.

Floodplain Evaluation

The project site is included on the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map Community Panel Number 065072 0002B (Effective December 18, 1986). The project site is located entirely in Zone C, which is an area determined to have minimal flooding and is outside the 100-year and 500-year floodplains. Thus, no flood flows would be impeded or redirected. No further floodplain evaluation is required.

Noise

A preliminary noise analysis has been performed to determine the potential noise impacts resulting from the proposed project. Noise-sensitive land uses in the project area include primarily the existing residences located along Chesebro Road and the pre-school, kindergarten and Montessori schools located at the intersection of Chesebro Road, Driver Avenue and Palo Comado Canyon Road. Additionally, the Heschel West School is planned to be located on the hill in the northeast quadrant of the proposed project. Residents and occupants in the Senior Retreat may experience elevated noise levels during project construction due to equipment operation.

According to the Caltrans Traffic Noise Analysis Protocol (Caltrans, 2006), traffic noise impacts occur when it is determined that the proposed Type I project will cause a substantial noise increase or when the predicted traffic noise levels approach within 1 decibel A (dBA) or exceed the Federal Highway Administration (FHWA) Noise Abatement Criteria (NAC) after project completion. A noise increase is considered substantial when the future predicted noise levels exceed existing noise levels by 12 dBA, Leq(h).

Parsons personnel conducted short-term noise measurements on July 10, 2008 at five residential locations that are representative of residences around the existing Palo Comado Canyon Road/U.S. 101 interchange. The short-term measurements were conducted for periods of 20 minutes and taken during the morning peak hours and the traffic was observed to be free flowing. The locations and results are presented in Appendix A of this PEAR.

Potential Impacts

Potential traffic noise impacts will be analyzed in accordance with the impact screening procedures identified in the Caltrans Technical Noise Supplement, TENS (Caltrans, 1998). According to the screening procedure, there is potential impact which would warrant a detailed noise study if the existing peak hour noise levels are within 5 dBA of the NAC. This implies that if existing noise levels are at least 62 dBA, within 5 dBA of the NAC of 67 dBA for residential land uses, a detailed noise analysis would be required. Existing noise levels at residences adjacent to the project have been found to be between 58 and 71 dBA; therefore a detailed analysis should be performed according to the procedures outlined in the Traffic Noise Analysis Protocol.

The preliminary traffic noise evaluation indicated that noise impacts would potentially occur at nearby residences because of their close proximity to the freeway and project site. Existing noise levels at some of these residences already exceed the NAC; therefore, future noise levels would also exceed the NAC.

Residents and occupants in the Agoura Hills Senior Retreat, Villa Park Agoura Apartments may also experience elevated noise levels during project construction due to equipment operation. The construction noise impacts would be temporary and would cease after the construction is completed. Implementation of standard construction noise mitigation measures would minimize noise impacts during the construction period.

Potential Traffic Noise Abatement

As prescribed in 23CFR772 and the Traffic Noise Analysis Protocol, noise abatement has only been considered where noise impacts are predicted, and where frequent human use occurs, or where a lowered noise level would be beneficial. Based on available information and the preliminary assessment, a soundwall appears to be required for first row residences located in the northwest quadrant of the Palo Comado Canyon Road/U.S. 101 interchange. A detailed noise study will be required to identify the specific length, appropriate heights, and exact location of the barrier, which can only be determined upon reviewing project drawings and plans. The feasibility and reasonability of recommended soundwalls shall be determined during the detailed analysis.

Air Quality

The project site is located within the City of Agoura Hills, in the 6,745-square-mile South Coast Air Basin (SCAB or Basin). The SCAB is defined as encompassing all of Orange County, Los Angeles County, with the exception of Antelope Valley, and the non-desert portions of Riverside and San Bernardino Counties. It consists of a coastal plain with interconnecting broad valleys and low hills. Elevations range from sea level to over 11,000 ft (3,353 m) above mean sea level (MSL). The South Coast Air Quality Management District (SCAQMD) has jurisdiction over air quality issues within the SCAB.

The SCAB is currently designated as a nonattainment area for Ozone (O3) and particulate matters (PM10 and PM2.5), and is in maintenance for Nitrogen dioxide (NO2) and Carbon Monoxide (CO). Table 1 summarizes the SCAB's attainment status, based on federal standards (NAAQS) and the state standards (CAAQS).

Table 1. South Coast Air Basin Attainment Status

| Pollutant | National Standards | California Standards |
|-------------------------------------|--------------------------|----------------------|
| Ozone (O ₃) – 1-hour | a | Non-attainment |
| Ozone (O ₃) – 8-hour | Severe – 17 | Non-attainment |
| PM ₁₀ | Serious | Non-attainment |
| PM _{2.5} | Non-attainment | Non-attainment |
| Carbon Monoxide (CO) | Attainment/Maintenance | Attainment |
| Nitrogen Dioxide (NO ₂) | Attainment/Maintenance b | Attainment |
| Sulfur Dioxide (SO ₂) | Attainment | Attainment |
| Lead (Pb) | Attainment | Attainment |

The 1-hour Ozone standard (NAAQS) was revoked by EPA on June 15, 2005 and thus, is no longer in effect for the State of California.

Source: California Air Resources Board, 2008.

The project site is located in an urbanized portion of Southern California (Figure 1). The immediate vicinity of the proposed project consist mostly commercial properties on both the north and south sides of US-101. Along Canwood Street, there is a Montessori kindergarten and pre-school, multi-family residences, a senior community facility, condominiums, and single-family residences. The Old Agoura Park is located immediately to the northeast of the project location.

Sensitive land uses in the project vicinity include residences, a senior community, and the Montessori kindergarten and pre-school. The closest residences are the homes on the northeast corner of Driver Street, Canwood Street and Palo Comado Canyon Road. These residences are located approximately 25 feet from the project site boundary. The multi-family residences, senior community, and condominiums are approximately 75 ft, 100 ft, and 150 ft from the proposed project, respectively. The nearest school to the project site is the Montessori kindergarten and pre-school is approximately 25 ft west of the project site. Other potentially sensitive uses in the more distant area include multi-family and single-family residences.

Potential Impacts

Following is a summary of the air quality assessment and analysis to be provided in the Air Quality Technical Report:

- The project is located in an ozone non-attainment area for federal and state standards.
- The project will increase capacity and it should be included with other projects that will be modeled
 for conformity. The project sponsor will employ appropriate procedures to ensure the project will
 be included in the SCAG transportation plans and that it would conform to CAA and state and
 federal air quality requirements and plans.
- A qualitative or quantitative local CO impact analysis will be conducted in accordance with the CO
 Protocol. The traffic data required for project-level hot-spot analysis for CO and particulate matter
 including ADT, truck ADT and percentage, peak hour (AM and PM) traffic volumes for all

Attainment of NO_2 based on national standards was approved on October 7, 2003.

vehicles as well and diesel trucks, level of service (LOS) of intersections and roadways affected by implementation of project, will be obtained from project traffic study report.

- An interagency consultation would be conducted, pursuant to the requirement of 40CFR 93.105 (c)(1)(i), to determine whether particulate matter (PM₁₀ and Pm_{2.5}) hot spot analyses would be required for conformity purposes. If it is determined that such analyses are required, qualitative PM₁₀ and PM_{2.5} hot spot analysis will be conducted for the opening year and the horizon year, following the Transportation Conformity Guidance for Qualitative Hot-Spot Analyses in PM2.5 and PM_{10} Nonattainment and Maintenance Areas (EPA, March 2006).
- Fugitive dust emissions related to the construction will be mitigated and control measures will be included according to Rule 403, additional measures will be identified and recommended, if needed.
- Mobile source toxic emissions impacts will be analyzed following the FHWA Interim Guidance on Air Toxics Analysis in NEPA Documents (FHWA, February 2006).
- A traffic report will be made available that will provide the information necessary to complete the analysis in accordance with the CO Protocol and mobile source PM and air toxics analyses guidelines.
- A discussion on green house gas (GHG) emissions, naturally occurring asbestos (NOA), and toxic air contaminants (TAC) will be included.

Mitigation Measures

Air quality impacts during the construction phase could be minimized by implementing SCAQMD Rule 403 (PM₁₀ Control Measures) and requiring the contractor to follow current standard procedures to reduce/control construction equipment emissions.

Appropriate mitigation measures would be identified if the results of an air quality analysis reveal that the project would cause significant adverse effects to air quality during the implementation phase.

Paleontology

Paleontological resources are the fossilized remains of ancient plants and animals. The proposed U.S. 101/Palo Comado Canyon Road interchange improvements widening would occur within the fully built environment that has been heavily disturbed with transportation facility construction. Based on the paleontological resources record check at the project site and its vicinity conducted by the Natural History Museum of Los Angeles County in November 2008, several invertebrate fossil localities lie within the project vicinity. Invertebrate fossil localities within the project footprint are unlikely. Although surface excavation of the project site is not likely to discover any significant vertebrate fossils, there is the potential to encounter significant invertebrate fossils in the deep excavation area that extends to the older Quaternary Alluvial deposits.

Potential Impacts

Based on the paleontological resources records check conducted by the Natural History Museum of Los Angles County in November 2008, the chance to encounter significant invertebrate fossils from surface grading or shallow excavations at the project site is unlikely. However, deeper excavations that extend to the older Quaternary Alluvial deposits have a good chance of encountering significant invertebrate fossils.

Mitigation Measures

To minimize potential impacts to paleontological resources, areas of deep excavation (i.e., deeper than 5 feet below surface grade) would be monitored for any vertebrate fossils. If found, excavation activities