

To: Charles Olson
Carlos Portillo

Date: March 4, 2008

Attn: MOHAMMAD U. SADIQ

File: SAC-5-9.7/22.5
03-3C0000

Subject: PAED Traffic Data Sheet

Project Information/Description:

The project proposes the construction of HOV lanes from Elk Grove to Downtown in both the northbound and southbound directions, the addition of auxiliary lanes between the Pocket Road and Florin Rd Interchanges and the replacement of the Casilada Way Pedestrian Overcrossing (POC) at PM 19.58 to meet current ADA requirements. The Casilada Way POC will be removed only after the new POC is constructed. It is planned to use median cross-overs to maintain the traffic during the demolition of existing POC.

Summary of Traffic Studies and Involvement:

Traffic Safety will provide collision summary and rates and recommends an overview of the collision pattern. They anticipate that a design safety review will be required, and recommend a construction field safety review. It is also recommended that Design request a consultation on roadside safety devices.

A Traffic Operations Study and Report for PA&ED is being prepared by a consultant under Contract No. 03A1263. Jim Calkins' District 3 Freeway Operations branch is providing oversight for the Report.

The proposed improvements being analyzed include but are not limited to HOV ramp meter bypass lanes, HOV lanes, auxiliary lanes and merging and weaving improvements. Recommended improvements could also include modifying existing ramps, providing acceleration lanes, upgrading freeway lighting, TOS elements and ramp meters.

If it is determined that a temporary construction speed zone will be needed, the request should be sent to Ron Sykes for review and processing. This request can be made after the project is awarded.

Signing and Striping support will be provided by John Holzhauser's Traffic Design Branch, Sacramento (S&S). Prior to commencing work, S&S will require survey data. In addition to regularly provided topography for design base mapping, S&S will require the locations of the existing roadside signs be included in the electronic "topo" file. When the proposed locations have been determined for the new and relocated overhead signs, surveyed cross sections at those locations up to 40' beyond the existing ETW may be required. Survey data must include the vertical clearance to each existing existing overhead sign at locations along its cross section to determine the point of minimum vertical clearance of the sign structure above the roadway. In addition to the design base mapping, completed stage construction plans will be required before work can begin on any traffic handling plans. Existing ground mounted signs, overhead signs and structure mounted signs will be impacted.

Traffic Design will be preparing construction area sign plans, pavement delineation plans, final sign plans, traffic handling plans and detour plans if needed.

Electrical design work will be provided by Nelson Lee's Electrical Design Branch, Sacramento. There will be substantial electrical work on the project. Work will be required on eleven (11) traffic monitoring systems (TMS) that will replace existing systems or add detection to the new lane. There will be work on ten (10) ramp meters. Seven (7) census stations will need loops replaced. There are eleven (11) closed circuit televisions (CCTV) that are anticipated to be impacted and one (1) visibility sensor (VS).

A total of 40 Electroliers will potentially be affected. The work on the electroliers includes relocation of poles, placement of new light poles and replacement of existing poles. Sign illumination will require upgrading to convert the existing lighting to induction lighting. There are 45 locations with 68 lights. The existing extinguishable message sign (EMS) will have to be relocated only if widening occurs. Nelson Lee of Electrical Design and Charlie Olson's Design branch will need to coordinate with each other to determine the final number of electrical elements impacted by the project. This includes, but is not limited to the CCTVs. From this coordination, Electrical Design will develop the final estimate for all impacted electrical systems. Both Design branches should make sure that Brian Simi of Electrical Systems is allowed the opportunity to review and comment on the placement of new and relocated electrical elements. The exact number of impacted electrical elements will not be available until later in the design phase.

Charles Olson
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Traffic Management:

The TMP Data Sheet and Checklist was provided to Design on February 11, 2008. The updated TMP Data Sheet was prepared by Manuel Tamayo of the TMP unit.

Lane closure charts and TMP SSPs will be developed prior to P&E. The request for this information should be sent directly to Joe Horton as outlined on the Traffic Operations website for TMP P&E requests..

Preliminary Scope of Traffic Items to be Included in This Project:

It is anticipated that there will be new overhead signs. Existing OH signs will need to be replaced, modified and relocated. It should be anticipated that structure mounted signs will require replacement. Ground mounted signs within the project limits will require replacement or relocation.

Lane line traffic stripe, edgeline and pavement markings should be assumed to be thermoplastic traffic stripe.

It is assumed there will be forty-five (45) signs with lighting impacts, forty (40) electroliers, eleven (11) traffic monitoring systems (TMS), ten (10) ramp meters (RM), eleven (11) closed circuit televisions (CCTV), one (1) visibility sensor (VS) and ten (10) traffic census stations (TCS) impacted on this project.

Estimated Cost of Traffic Items Anticipated for This Project: \$13,473,600

Signing and Striping	\$6,400,000
Traffic Control/TMP	\$1,428,000
Electrical	\$3,400,000
State Furnished Material	
Other:	
Subtotal	\$11,228,000
Contingency - 20.0%	\$2,245,600
Total	\$13,473,600

Traffic Contacts:

Unit Number	Function	Unit Contacts
03-352	Project Support	Jim Graham, Allison Pitts, Ann Murphy
03-366	Traffic Management Planning	Joe Horton
03-367	Safety Analyses and Traffic Program Advisor	Robert Peterson
03-368	District Traffic Manager	Paul Wilkinson
03-369	Parking Restrictions; Speed Zones; Sign Orders, Truck	Ron Sykes
03-370	Traffic Operations, Sacramento Urban Area	Jim Calkins
03-373	Electrical Systems/TOS	Brian Simi
03-380	Traffic Design; Signing and Striping Design	John Holzhauser
03-391	Electrical Design	Nelson Lee
03-392	Signal Operations, Census	Dave Gamboa

Resource Needs:

There are currently 6.6 PYs in XPM for Traffic support. An updated request has been made by Nelson Lee of Electrical Design. Additional hours have been requested for unit 365 at the request of unit 380 preparing the Signing and Striping . This additional effort by Unit 365 is for review of plans prepared by unit 380 because of the complexity and extensiveness of the signing on this project. The updated hours are currently being negotiated with the Project Manager and are shown in red on the resource request sheet attached to this document.

Assumptions/Risks:

Project workplans are agreed to based upon continued availability of experienced staff to provide oversight along with competing Region priorities.

The Traffic Operations Report is being prepared by consultant contract with oversight review by the Freeway Operations Branch.

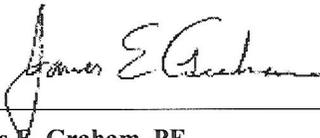
It should be noted that the cost of the TMP is tied to the number of days that construction activities will require traffic control, the number of days of COZEEP and the number of working days. The estimate provided assumes that only a portion of the number of anticipated working days will require traffic control and/or COZEEP. The estimate provided does not reflect a TMP cost that could be as much as 5% of the project cost.

Evaluation Prepared By:

Traffic Support: Ann C. Murphy **Date:** 2/11/08

Program Support: Allison Pitts **Date:** 2/11/08

Approved By:



James E. Graham, PE
Traffic Engineering Office Chief

Attachments:

Preliminary Estimate S&S
Resource Spreadsheet

c: Traffic Branch Chiefs - Units 366, 367, 368, 369, 370, 373, 380, 391, 392
Allison Pitts