ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017
PROJECT BASELINE AGREEMENT
03-Sac-99 RHMA Overlay (EA 03-0H480)

Resolution SHOPP-P-1819-04B
(will be completed by CTC)

1. FUNDING PROGRAM

- ☐ Active Transportation Program
- ☐ Local Partnership Program (Competitive)
- ☐ Solutions for Congested Corridors Program
- ☒ State Highway Operation and Protection Program
- ☐ Trade Corridor Enhancement Program

2. PARTIES AND DATE

2.1 This Project Baseline Agreement (Agreement) for the *03-Sac-99 RHMA Overlay (EA 03-0H480)*, effective on, OCTOBER 17, 2018 (will be completed by CTC), is made by and between the California Transportation Commission (Commission), the California Department of Transportation (Caltrans), the Project Applicant, *Caltrans*, and the Implementing Agency, *Caltrans*, sometimes collectively referred to as the "Parties".

3. RECITAL

3.2 Whereas at its March 22, 2018 meeting the Commission approved the State Highway Operation and Protection Program, and included in this program of projects the *03-Sac-99 RHMA Overlay (EA 03-0H480)*, the parties are entering into this Project Baseline Agreement to document the project cost, schedule, scope and benefits, as detailed on the Project Programming Request Form attached hereto as Exhibit A and the Project Report attached hereto as Exhibit B, as the baseline for project monitoring by the Commission.

3.3 The undersigned Project Applicant certifies that the funding sources cited are committed and expected to be available; the estimated costs represent full project funding; and the scope and description of benefits is the best estimate possible.

4. GENERAL PROVISIONS

The Project Applicant, Implementing Agency, and Caltrans agree to abide by the following provisions:

4.1 To meet the requirements of the Road Repair and Accountability Act of 2017 (Senate Bill [SB] 1, Chapter 5, Statutes of 2017) which provides the first significant, stable, and on-going increase in state transportation funding in more than two decades.

4.2 To adhere, as applicable, to the provisions of the Commission:

- ☐ Resolution *Insert Number* , "Adoption of Program of Projects for the Active Transportation Program", dated
- ☐ Resolution *Insert Number* , "Adoption of Program of Projects for the Local Partnership Program", dated
- ☐ Resolution *Insert Number* , "Adoption of Program of Projects for the Solutions for Congested Corridors Program", dated
- ☒ Resolution G-18-13, "Adoption of Program of Projects for the State Highway Operation and Protection Program", dated March 22, 2018
- ☐ Resolution *Insert Number* , "Adoption of Program of Projects for the Trade Corridor Enhancement Program", dated

4.3 All signatories agree to adhere to the Commission's State Highway Operation and Protection Program, Guidelines. Any conflict between the programs will be resolved at the discretion of the Commission.

4.4 All signatories agree to adhere to the Commission's SB 1 Accountability and Transparency Guidelines and policies, and program and project amendment processes.

4.5 Caltrans agrees to secure funds for any additional costs of the project.

4.6 Caltrans agrees to report on a quarterly basis; after July 2019, reports will be on a semi-annual basis on the progress made toward the implementation of the project, including scope, cost, schedule, outcomes, and anticipated benefits.

4.7 Caltrans agrees to prepare program progress reports on a quarterly basis; after July 2019, reports will be on a semi-annual basis and include information appropriate to assess the current state of the overall program and the current status of each project identified in the program report.

4.8 Caltrans agrees to submit a timely Completion Report and Final Delivery Report as specified in the Commission's SB 1 Accountability and Transparency Guidelines.

4.9 All signatories agree to maintain and make available to the Commission and/or its designated representative, all work related documents, including without limitation engineering, financial and other data, and methodologies and assumptions used in the determination of project benefits during the course of the project, and retain those records for four years from the date of the final closeout of the project. Financial records will be maintained in accordance with Generally Accepted Accounting Principles.

4.10 The Transportation Inspector General of the Independent Office of Audits and Investigations has the right to audit the project records, including technical and financial data, of the Department of Transportation, the Project Applicant, the Implementing Agency, and any consultant or sub-consultants at any time during the course of the project and for four years from the date of the final closeout of the project, therefore all project records shall be maintained and made available at the time of request. Audits will be conducted in accordance with Generally Accepted Government Auditing Standards.

5. SPECIFIC PROVISIONS AND CONDITIONS

5.1 Project Schedule and Cost
See Project Programming Request Form, attached as Exhibit A.

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

5.3 Other Project Specific Provisions and Conditions

Attachments:

Exhibit A: Project Programming Request Form
Exhibit B: Project Report

SIGNATURE PAGE
TO
PROJECT BASELINE AGREEMENT

03-0H480 03-Sac-99 RHMA Overlay

Resolution SHOPP-P-1819-04B

Amarjeet S. Benipal — 8-31-18
Amarjeet S. Benipal — Date

District 3 Director

Project Applicant

Amarjeet S. Benipal — 8-31-18
Amarjeet S. Benipal — Date

District 3 Director

Implementing Agency

Amarjeet S. Benipal — 8-31-18
Amarjeet S. Benipal — Date

District Director

California Department of Transportation

Laurie Berman — 9/11/18
Laurie Berman — Date

Director

California Department of Transportation

Susan Bransen — 10/26/18
Susan Bransen — Date

Executive Director

California Transportation Commission

Baseline agreement information was extracted from Caltransâ„¢ project data systems. Project description, funding and performance measures are from CTIPS. Project delivery milestones are from PRSM. All information is current and accurate.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

BASELINE AGREEMENT | **Date:** 09/10/18 12:18:21 PM

District	EA	Project ID	PPNO	Project Manager
03	0H480	0315000198	6924	AVILA, JESUS S

County	Route	Begin Postmile	End Postmile	Implementing Agency	
SAC	99	0.2	1.6	PA&ED	Caltrans
				PS&E	Caltrans
				Right of Way	Caltrans
				Construction	Caltrans

Project Nickname

RHMA Overlay

Location/Description

In Galt, from the San Joaquin County line to Simmerhorn Road; also, in the cities of Elk Grove and Sacramento, from 0.7 mile south of Elk Grove Boulevard to Martin Luther King Jr. Boulevard (PM 11.9/21.5). Pavement rehabilitation.

Legislative Districts

Assembly:	09	Senate:	06	Congressional:	07

PERFORMANCE MEASURES

	Primary Asset	Good	Fair	Poor	New	Total	Units
Existing Condition	Pavement	33.9	33.9			67.8	Lane-miles
Programmed Condition	Pavement	67.8				67.8	Lane-miles

Project Milestone	Actual	Planned
Project Approval and Environmental Document Milestone	05/15/17	
Right of Way Certification Milestone		01/10/19
Ready to List for Advertisement Milestone		01/25/19
Begin Construction Milestone (Approve Contract)		05/07/19

FUNDING (Allocated amounts are shaded)

Component	Fiscal Year	SHOPP					Total
PA&ED	18/19	1,000					1,000
PS&E	18/19	1,900					1,900
RW Support	18/19	90					90
Const Support	18/19	3,600					3,600
RW Capital	18/19	22					22
Const Capital	18/19	38,760					38,760
Total		45,372					45,372

03-SAC-99-PM 0.0/1.6 and PM 11.9/21.5
20.XX.201.121
03-0H4800/0315000198
April 2017

Capital Preventive Maintenance Project (CAPM)
Supplemental Project Scope Summary Report

PROJECT LOCATION: In Sacramento County on State Route 99 near Galt from the San Joaquin County line to Simmerhorn Rd Overcrossing (Br No. 24-0138) and in Sacramento, from 0.7 mile south of Elk Grove Blvd Overcrossing (Br No. 24-0019) to Martin Luther King Jr. Blvd Overcrossing (Br No. 24-0147).

APPROVAL RECOMMENDED:

Jesus Gonzalez, *DISTRICT PROGRAM MANAGER*

APPROVAL RECOMMENDED:

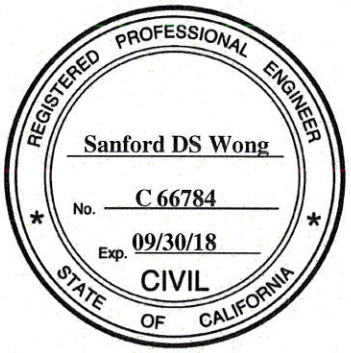
Jess Avila, *PROJECT MANAGER*

APPROVED:

Ray Zhang, *DISTRICT DIRECTOR* — *DATE* 5/15/17

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

Sanford DS Wong, *REGISTERED CIVIL ENGINEER* — *DATE* 5/9/2017



1. INITIATING OFFICE/INITIATOR

The Caltrans Headquarters and District Program Managers for the Capital Preventative Maintenance (CAPM) Program (201.121) have established that a project is needed that meets the qualification for the Program.

This Supplemental Project Scope Summary Report (SPSSR) updates the scope, schedule, and cost of the June 30, 2015 approved Project Initiation document (PID) and addresses complete street and Americans with Disabilities Act (ADA) requirements at curb ramps within the project limits.

2. PURPOSE AND NEED

Purpose:

The purpose of this project is to preserve and extend the life of the existing pavement and improve ride quality.

Need:

The Pavement Condition Survey for this section of road has an overall PCS/PMS priority number 3 which characterizes the road as having minor pavement distress and acceptable ride.

3. PAVEMENT CONDITION SUMMARY:

(SAC-99-PM 0.123/2.00)

PMS Category (1-33) 3 Priority Classification (.1-.4) .2

International Ride Index ranges from 60-129; average 85

*Rigid Pavement: No *Flexible Pavement: Yes

* From latest PMS-Pavement Condition Inventory Survey Data.

3rd Stage Cracking % NA Alligator B Cracking % 1

Faulting% NA Patching % 0

Joint Spalls NA Rutting range = 0-.23; average = .08

Pumping N/A Bleeding No

Corner Breaks % N/A Raveling No

(SAC-99-PM 11.9/21.5)

PMS Category (1-33) 3 Priority Classification (.1-.4) .2

International Ride Index 60

*Rigid Pavement: No *Flexible Pavement: Yes

* From latest PMS-Pavement Condition Inventory Survey Data.

3rd Stage Cracking % NA Alligator B Cracking % 0-3

Faulting% NA Patching % 0

Joint Spalls NA Rutting No

Pumping N/A Bleeding No

Corner Breaks % N/A Raveling No

Existing Facility

The existing facility is a 4 to 8-lane divided freeway with on/off-ramps at the interchanges within the project limits. Inside shoulders are 10 feet and outside shoulders are 10 feet and varies. The existing flexible pavement is an asphalt concrete (AC) for the traveled way and shoulders.

Underneath the flexible pavement is the original State Route 99 Portland Cement Concrete (PCC) rigid pavement that was cracked and seated around 1999. The original rigid pavement is composed of the following structural section:

Pavement Reinforcement Fabric (PRF)
0.67' PCC
0.33' Cement Treated Subgrade (CTS)
0.50' AB

4. PROJECT PROPOSAL

Prior to discussing the proposed improvements, it is important to understand the project's funding source and program and how each proposed improvement addresses them and stays within the project funding and programming source.

This Caltrans project is programmed under the State Highway Operation and Protection Program under Capital Preventive Maintenance. The proposed

improvements are consistent with Design Information Bulletin 81-01 dated 3/16/2011 titled "Capital Preventive Maintenance." Proposed improvements should repair pavement exhibiting minor surface distress and/or triggered ride as determined by the Pavement Condition Survey (PCS) and the Pavement Management System (PMS).

This project also include improvements to address Design Information Bulletin 82-05 dated October 1, 2013 titled "Pedestrian Accessibility Guidelines for Highway Projects" which is consistent with Deputy Directive DD-42-R3 dated 9/2004 titled Americans with Disabilities Act (ADA) and State Disability Law."

Proposed Project Improvements are the following with their assumptions and approaches:

Pavement Strategy:

Travelled Way (Mainline State Route 99)

- Cold plane 0.25'of pavement to remove the existing gap- or open-graded asphalt (wearing course) and asphalt concrete (AC)
- Cold plane pavement to conform at overcrossings to maintain vertical clearance, at project limits, and at all bridge decks
- Assumed no repair or replace concrete slabs under overcrossings
- Dig out and repair locations of severe failure. The project will assume 5% of the overall lane mile
- Seal Cracks wider than 0.25". The project will assume 10% of the overall lane mile
- Overlay with 0.15' Rubberized Hot Mixed Asphalt Type G (RHMA-G)
- Overlay with 0.10' Rubberized Hot Mixed Asphalt Type O (RHMA-O), wearing course

Shoulders (assume both inside and outside shoulder and for mainline and ramps)

- Cold plane 0.15' of pavement to conform at overcrossings to maintain vertical clearance, at project limits, and at all bridge decks
- Overlay with 0.15' Rubberized Hot Mixed Asphalt Type G (RHMA-G)
- Overlay with 0.10' Rubberized Hot Mixed Asphalt Type O (RHMA-O) from edge of shoulder to edge of shoulder; wearing course
- Install rumble strips on both the inside and outside shoulders for both northbound and southbound SR 99.

Ramps

- Cold plane 0.25' of pavement to remove the existing gap- or open-graded asphalt and asphalt concrete (AC)
- Dig out and repair locations of severe failure. The project will assume 5% of the overall lane mile for ramps
- Seal Cracks wider than 0.25". The project will assume 5% of the overall lane mile for ramps
- Overlay with 0.15' Rubberized Hot Mixed Asphalt Type G (RHMA-G)

- Overlay with 0.10' Rubberized Hot Mixed Asphalt Type O (RHMA-O); Open grade limits on the interchange ramps will be from edge of shoulder to edge of shoulder

Curb Ramp Upgrade to American Disability Act (ADA) Guidelines and Standards.

Within the project limits, there are approximately 106 curb ramps at the interchange on/off-ramp termini that do not meet the current standards of Design Information Bulletin (DIB) 82 titled Pedestrian Accessibility Guidelines for Highway Projects dated 10/1/2013. Those curb ramps not meeting ADA standards and guidelines will be reconstructed. Some of the reconstruction improvements are the removal of objects within the clear sidewalk width, installing detectable warning surface, and update cross walk push buttons to current standard.

Sidewalk Improvements.
Where feasible, sidewalks within Caltrans right of way will be improved to meet DIB 82 Guidelines. All of the proposed sidewalk improvements within Caltrans right of way occur at the interchanges. Sidewalk updates will be dependent on existing condition constraints and restrictions which will be based on a case by case scenario.

Existing Guardrail, Barriers, Cushions, and Traffic Safety Devices.

The height of existing guardrails will be adjusted or will be reconstructed where needed to meet current standards. All metal beam guard railing (MBGR) will be upgraded to Midwest Guard Rail (MGS) system. Concrete barriers were evaluated against the preliminary Manual for Assessing Safety Hardware (MASH) guidelines per the December 23, 2016 Memorandum titled "Implementation of the Manual for Assessing Safety Hardware" and it is determined that no adjustment to the concrete barriers are necessary at this time. Survey information has been requested to verify this assumption.

Based on the 11/8/99 As Built Plans for contract number 03-357804, the existing concrete median barrier is a Type 50C which was installed as part of this project. Based on historical Caltrans Standard Plans for Type 50C, the barrier height is 32". All end treatment and MGS end sections will be updated to current standards.

MBGR connections to structures will be further explored during Plans, Specification, and Estimate phase to upgrade connections if necessary.

Dikes/Curbs

Dikes and curbs will be repaired, replaced, or upgraded where needed to meet current standards.

Pullouts

During the PA&ED phase, the Project Development Team (PDT) coordinated with Caltrans regional maintenance supervisor to determine if they had any improvement needs. Based on feedback from the regional maintenance supervisor, there is no need for new pullouts.

Existing maintenance and other vehicle pullouts will be resurfaced consistent with the strategies proposed for shoulders in this PA&ED.

Gore Cleanup

Where applicable and feasible, ramp gores will be improved with contrasting surface treatment up to the 50 foot location consistent with the November 29, 2016 District 3 Design Directive titled "Contrasting Surface Treatment Limits in Ramp Gore Area". Existing gores that have very long 50 foot gore points will be excluded due to cost and landscape impacts.

Drainage Inlets

At locations where curb ramps will be modified, existing drainage grates will be upgraded with bicycle friendly grates. Existing drainage inlets that conflict with ADA curb ramps will be relocated at the ramp intersections and other conflicting locations.

Traffic Delineation

Due to the project scope of pavement rehabilitation, all ramp and mainline loop detectors and stripes will be replaced because of the cold planing operation.

Incidental Work (should not exceed 20% project core costs):

- New Guardrail, Barriers, or Crash Cushions:
  There are no new guardrail, barriers, or crash cushions identified in the PA&ED phase.
- Road signs:
  There are no new signs and there has been no request to improve existing roadway signs within the project limits.
- Drainage:
  There are no new drainage system identified by the PDT and regional maintenance supervisor during the PA&ED project development phase. The project will relocate drainage inlets that conflicts with curb return improvements to meet ADA guidelines and requirements.
- Storm Water:
  Construction best management practices (BMP) should be addressed in final PS&E package in accordance with current Project Planning and Design

Guide. Any Construction BMPs required to address CAPM work is included in the cost for those items.

- Structure Approach Slabs:
  Existing structure approach slab improvements are not required based on the Structure Replacement and Improvement Needs (STRAIN) report.

5. DESIGN CONSIDERATIONS

R/W: (See Attachment D)

Utilities: Potholing may be required for utility verification at the curb return improvements. This will be completed during the PS&E project phase.

Railroad Agreements: There is no railroad involvement within the project limits.

Acquisitions and Easements: No acquisitions or easements are anticipated.

Geometrics:

The purpose of a CAPM project is to preserve and extend the life of existing pavement and roadway a minimum of 5 years. Existing roadway geometric conditions (including pedestrian and bicycle facilities) will be maintained or, where modified as a result of paving operations (such as bridge vertical clearance) not be reduced below the current standards in the Highway Design Manual and associated Design Information Bulletins.

Traffic Management

A Traffic Management Plan (TMP) data sheet was prepared during this PA&ED phase. The PA&ED TMP key summaries are work will be limited to nighttime hours and no closure will be allowed during daytime and peak commute hours on weekdays, no consecutive on or off-ramps will be closed at the same time, and pedestrian access must be maintained during construction with at least one sidewalk open on one side of the roadway at all times.

During final PS&E phase, project 03-0H342 (21st Avenue UC) will be combined with this project. The PS&E TMP will include projects EA 03-0H480 and 03-0H342. Final traffic management details will be developed during the PS&E phase of this project. See Transportation Management Plan Attachment E for more information on this project's TMP.

System Coordination

There are eight projects within or near the vicinity of this SHOPP CAPM project. The eight projects are listed below:

- Expenditure Authorization (EA) 03-1H630 (PM 13.2/16.0) – Construct auxiliary lane on SR 99 at various locations (SR 99 SB Cosumnes River Blvd to Sheldon Road, SR 99 SB Laguna Blvd to Elk Grove Blvd, SR 99 NB Elk Grove Blvd to Bond Rd, and SR 99 NB Sheldon Road to Calvine Rd.). Project also includes reconstruction of sound walls and construction of concrete barriers at various locations. The Project Study Report was signed in February 28, 2017.

- EA 03-4F590 (PM 18.30/18.62) – Construction of a sound wall on the east side of northbound SR 99 between Tangerine Ave and Pomegranate Ave on top of the existing concrete barrier Type 736SV. The project is in the construction development phase as of 2/2017

- EA 03-2F550 (PM 17.5/18.1) – Mack Road lengthen merging distance by widening the on-ramp and reconfigure the High Occupancy Vehicle (HOV) ramp meter from Mack Road to Elder Creek. The project is schedule for construction in June 30, 2017.

- EA 03-3F940 (PM 8.5/22.4) – Sac -99 roadside safety improvement by improving roadside paving, slope paving, vegetation removal, placement of inert material, and other elements as applicable. The project is in construction with winter suspension as of 2/2017.

- EA 03-0F351 (PM 0/0) – Install ramp meters on SR 99 and SR 51 at various locations. The project is scheduled for construction July 15, 2017.

- EA 03-0H670 (PM 12.7/R24.3) – Installation of fiber optics on SR 99. The project is proposed for 2018 SHOPP cycle in fiscal year 2021/2022.

- EA 03-4F320 (see Task Order for details)

- EA 03-0H340 (See Task Order for details). This project will be split to 03-0H341 and 03-0H342.

This project's scope of work was coordinated with project EA 03-1H630, 03-2F550, 03-3F940, and 03-0F351.

Environmental Compliance:

- Environmental Determination for California Environmental Quality Act / National Environmental Policy Act (CEQA/ NEPA):
  The environmental determination for this project is a Categorical Exemption under CEQA and Categorical Exemption under NEPA. These environmental documents were signed on April 28, 2017. See Attachment F for more information.

- Potential Agencies Involved:
  All planned improvements will be within Caltrans Right of Way.

  During the PA&ED and PS&E project development phase, the PDT will keep the City and County of Sacramento informed of this projects planned improvement for purpose of regional coordination. In particular, ADA improvements for coordination and continuity purposes.

- Hazardous Waste:
  A PA&ED Hazardous Waste Initial Site Assessment (ISA) was completed for the project. Based on the PA&ED ISA, the following issues may be encountered:
  - Aerially deposited lead within the top 3 feet of unpaved areas within the right of way. Lead in paint and thermoplastic striping.
  - Traffic Stripe-Lead/Chromium Based Paint.
  - Treated wood waste from metal beam guard railing may be hazardous (carcinogenic).

  A full evaluation of potential hazardous waste or contamination issues will be addressed during the PS&E phase of the project. The three potential hazardous items will be addressed with Caltrans special standard provisions (SSP's) during the PS&E phase.

- Materials Disposal and Coordination:
  Surplus material or grindings generated by the project will become the property of the contractor. AC grindings shall be handled and disposed of in accordance with local, state, and federal laws and regulations.

- Access / Staging / Storage areas:
  Potential staging/storage areas identified during the PA&ED phase are the in-fields at each interchange along SR 99 within the project limits. These proposed staging and storage areas are consistent with overlay project construction means and methods.

6. PROGRAMMING

Capital Costs

The PA&ED estimated capital cost was developed using as-built, Google Earth aerial imagery, and field visits. Survey data and surface model (Digital Terrain Model, DTM) will be requested during PA&ED and expected to be ready for PS&E phase.

The approaches and assumptions used in the development of the PA&ED project capital costs are:

- SR 99 mainline and interchange ramp pavement and cold plane areas were developed using Google Earth aerial imagery.
- Concrete Barrier quantities were developed using as-built from Contract Number 03-357804 dated 11/05/1999 and using Google Earth. Design did not perform field survey or measurements because of staff safety concerns.
  As a result of no defiant MASH guidelines, design did not assume concrete barrier removal and replacement to meet MASH guidelines. Specifics of the MASH guidelines as of 2/2017 have not been fully developed by Caltrans. In particular, the minimum height and recommend improvement strategies have not been addressed.
- Shoulder overlay of 0.10' Rubberized Hot Mixed Asphalt Type O (RHMA-O) will be extended from edge of shoulder to edge of shoulder. Surveys will provide existing barrier heights for use in the design phase. If barrier vertical heights are reduced below the MASH tolerance, other details such as conforming the open grade at the barrier cold be explored. Furthermore, review of accident data within project limits adjacent to barriers and requesting traffic safety's feedback during the design phase of the selected cross section alternative(s) could be explored.
- Curb Return quantities were based on the Caltrans Survey 123 Application program, field survey, and Google Earth.
- Metal Beam Guard Railing were developed using Google Earth aerial imagery and field visits. No actual field measurements were performed because of staff safety concerns.
- Pavement delineations were developed using Google Earth aerial imagery.
- Project item unit costs were developed using Caltrans BEEs historical data base.
- Gore areas and sidewalk were based on Google Earth aerial imagery and designer assumptions.
- The project assumes no right of way acquisitions or easements because all proposed improvements will be within Caltrans right of way which is consistent with this SHOPP CAPM project.

- There are no railroad involvement within the project limits but there may be some utility relocation at the curb ramp improvements to meet ADA requirements.

The estimated PA&ED cost is approximately $36.5 million with an escalated cost of $39.4 million (4/2020). For a detailed summary of the cost estimate, see attachment G.

Project Support Components

PROJECT SUPPORT COMPONENTS						
	PA&ED 0 Phase	PS&E 1 Phase	Right of Way 2 Phase	Construction 3 Phase	Right of Way Cap	Total
Total Dollars (x1000)	$850	$1,700	$80	4,000	22	6,630

TOTAL SUPPORT COST $6,630,000

TOTAL PROJECT COST $46,052,000

The support cost ratio is 18%.

7. SCHEDULE

ID	Milestones	Target Delivery Date (Month, Day, Year)
M200	PA & ED	06/01/2017
M255	Regular Right of Way	12/01/2017
M380	Project PS&E	07/01/2018
M410	Right of Way Certification	08/01/2018
M460	Ready to List	08/06/2018
M500	Approve Contract	12/01/2018
M600	Contract Acceptance	12/01/2019
M800	End Project	12/01/2021

8. SCOPE TEAM MEMBERS AND REVIEW DATE

The following individuals have reviewed and participated in the scoping team field reviews and/or meetings on dates indicated and support the scope proposed in this document.

CAPM-SPSSR Project Engineer: Sanford Wong Date 2/3/2017

District Maintenance Engineer: Jesus Gonzalez Date 2/3/2017

District Program Advisor: Jesus Gonzalez Date 2/3/2017

HQ 121 Program Advisor: Amy Fong Date 2/3/2017

District Project Manager: Jess Avila Date 2/3/2017

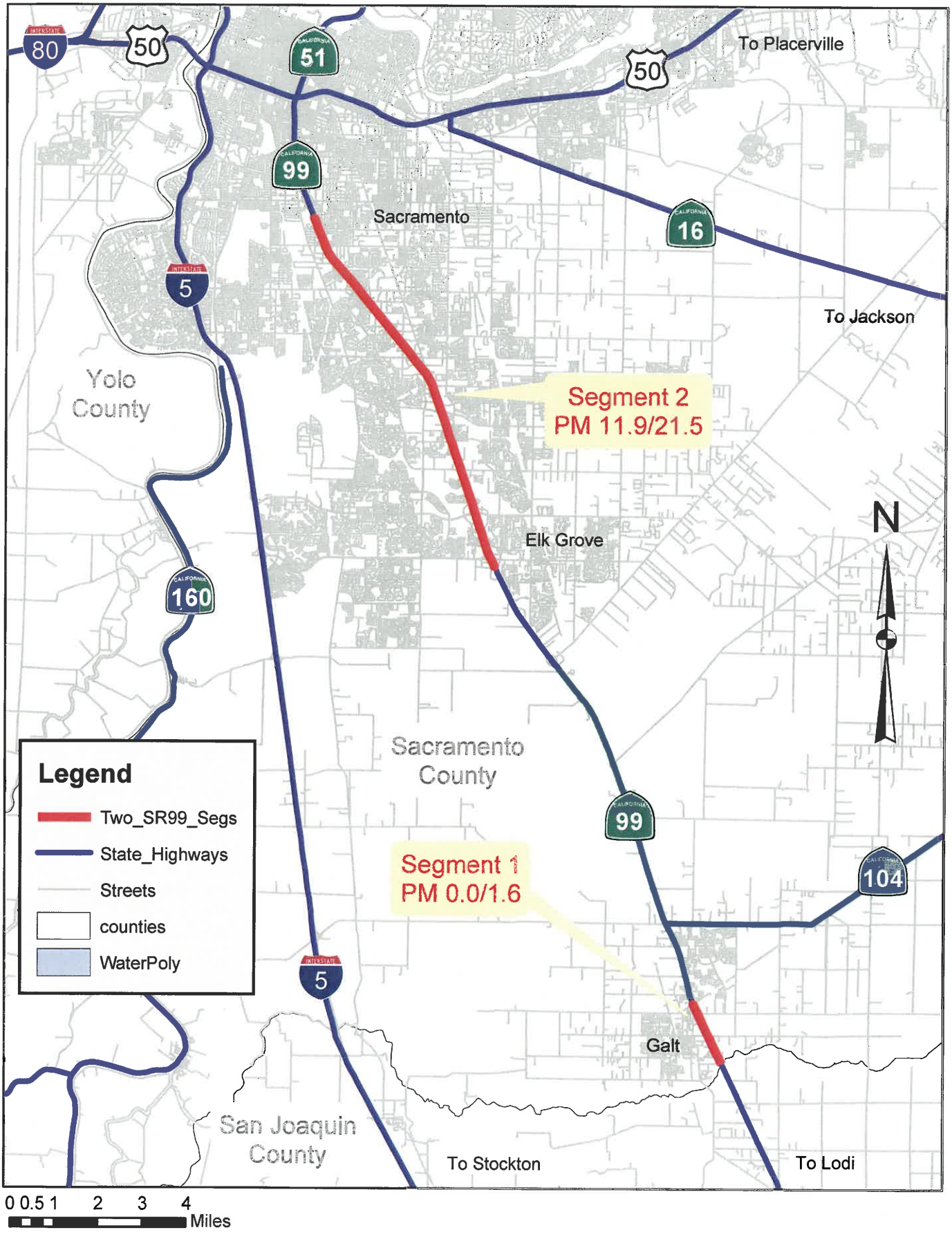
FHWA Coordination

This project is eligible for federal-aid funding.

9. **ATTACHMENT**
   - A. Location Map
   - B. Typical Cross Section
   - C. Layout Sheets
   - D. Pavement Condition Report & Structural Section Recommendation
   - E. Right of Way Data Sheet
   - F. Transportation Management Plan Data Sheet
   - G. Estimate (11 page format).
   - H. Environmental Document (Categorical Exemption/Categorical Exemption)
   - I. Signed Storm Water Data Report Title Sheet.
   - J. Risk Register
   - *K.* Programming Sheet
   - *L* Landscape Architecture Assessment Request (LAAS)

Attachment A. Location Map

LOCATION MAP
EA 0H480 - Project ID 0315000198
03-SAC-99 PM 0.0/1.6 & 11.9/21.5



Attachment B. Typical Section

NOTES:

1. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.
2. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

ABBREVIATION:

RHMA-O – RUBBERIZED HOT MIX ASPHALT (TYPE O)
RHMA-G – RUBBERIZED HOT MIX ASPHALT (TYPE G)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

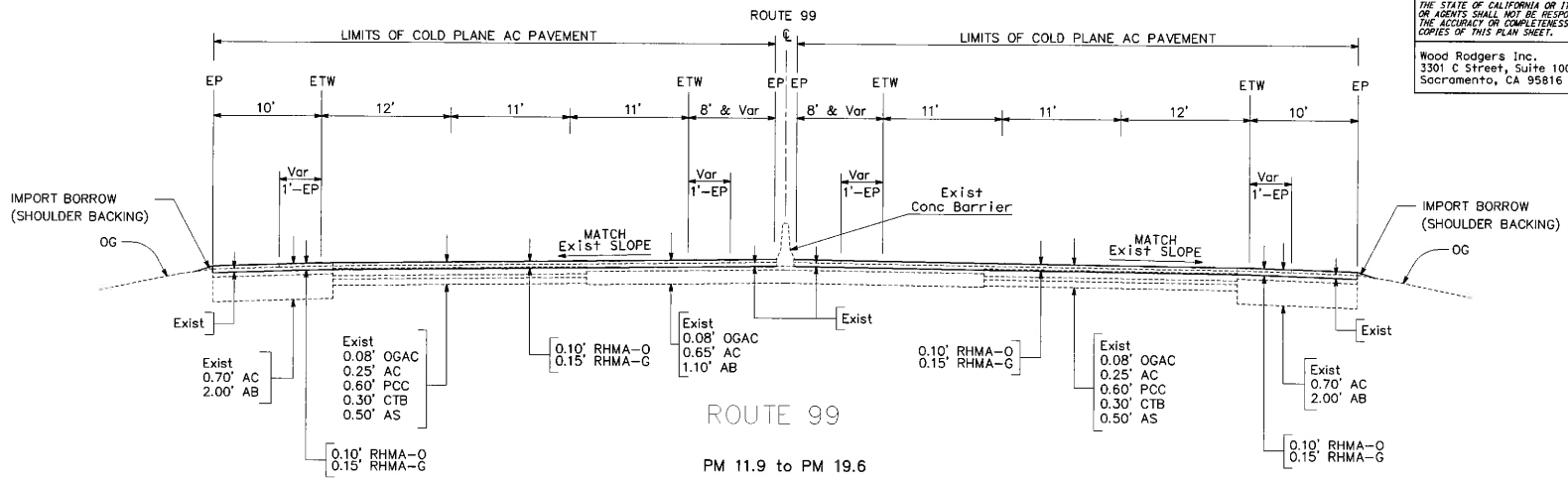
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — SANFORD WONG — No. 66784 — Exp. 9/30/18 — CIVIL — STATE OF CALIFORNIA

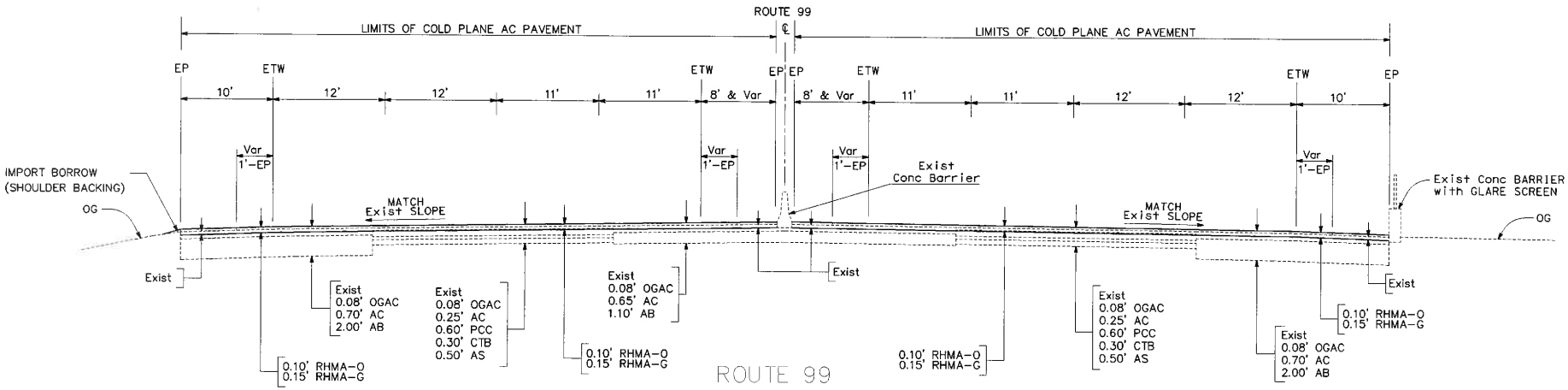
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816



ROUTE 99

PM 11.9 to PM 19.6



ROUTE 99

PM 19.6 to PM 21.5

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK | CALCULATED-DESIGNED BY | CHECKED BY | SANFORD WONG | REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => $DATE
00-00-00 | TIME PLOTTED => $TIME

BORDER LAST REVISED 7/2/2010 | USERNAME => $USER | DGN FILE => $REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 03-0H480

Attachment C. Layout Sheets

Dist	County	Route	Post Miles Total Project	Sheet No.	Total Sheets
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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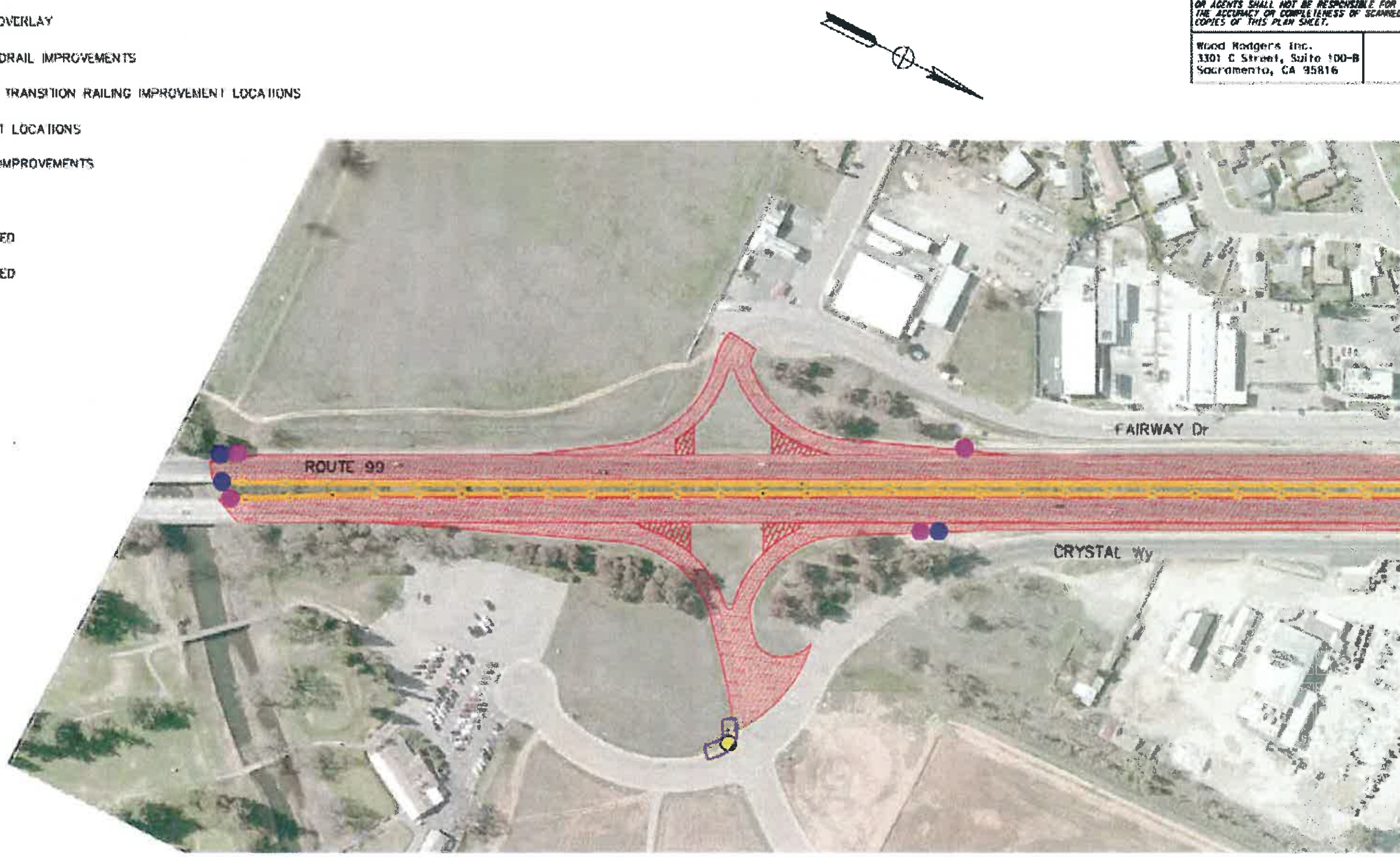
REGISTERED PROFESSIONAL ENGINEER SANFORD WONG No. 66784 Exp. 9/30/18 CIVIL STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816

LEGEND

- CURB RAMP IMPROVEMENT LOCATIONS
- LIMITS OF CURB RAMP IMPROVEMENTS
- LIMITS OF SIDEWALK IMPROVEMENTS
- LIMITS OF COLD PLANE AND OVERLAY
- LIMITS OF METAL BEAM GUARDRAIL IMPROVEMENTS
- CONCRETE ANCHOR BLOCK & TRANSITION RAILING IMPROVEMENT LOCATIONS
- END TREATMENT IMPROVEMENT LOCATIONS
- LIMITS OF RAMP GORE AREA IMPROVEMENTS
- DI IMPROVEMENT LOCATIONS
- SIGNAL POLE TO BE RELOCATED
- UTILITY POLE TO BE RELOCATED



LAYOUT
SCALE: 1"=100'

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK

CALCULATED-DESIGNED BY: SANFORD WONG | CHECKED BY

REVISED BY | DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => $USER DGN FILE => $REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE | 03-0H480

LAST REVISION 00-00-00 | DATE PLOTTED => $DATE TIME PLOTTED => $TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER SANFORD WONG No. 56784 Exp. 9/30/18 CIVIL STATE OF CALIFORNIA

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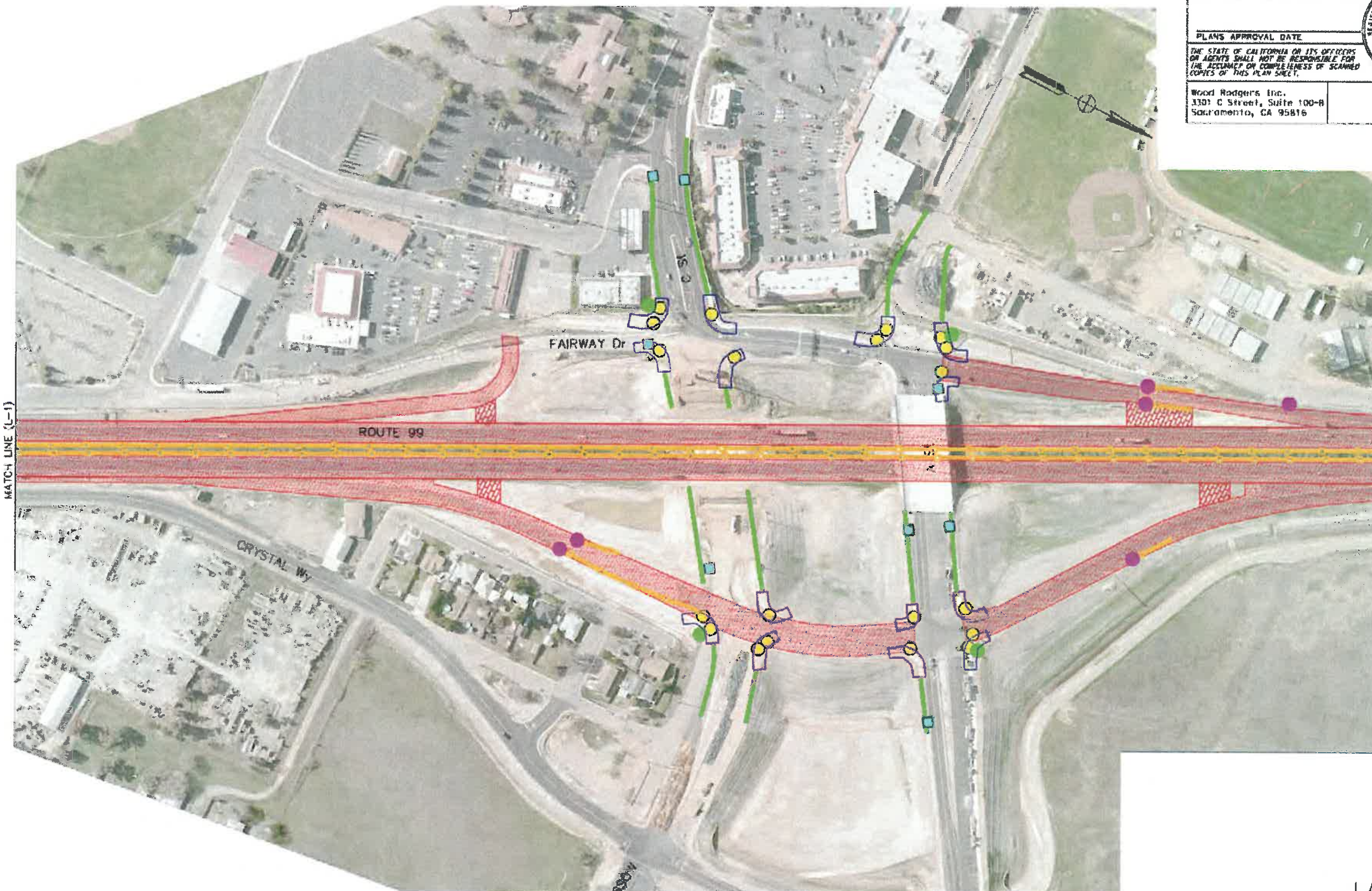
3301 C Street, Suite 100-B
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY
MARK RAYBACK	SANFORD WONG	
	CHECKED BY	DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => $USER
DGN FILE => $REQUEST

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 03-0H480

DATE PLOTTED => $DATE
TIME PLOTTED => $TIME
00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
SANFORD WONG
No. 66784
EXP. 9/30/18
CIVIL
STATE OF CALIFORNIA

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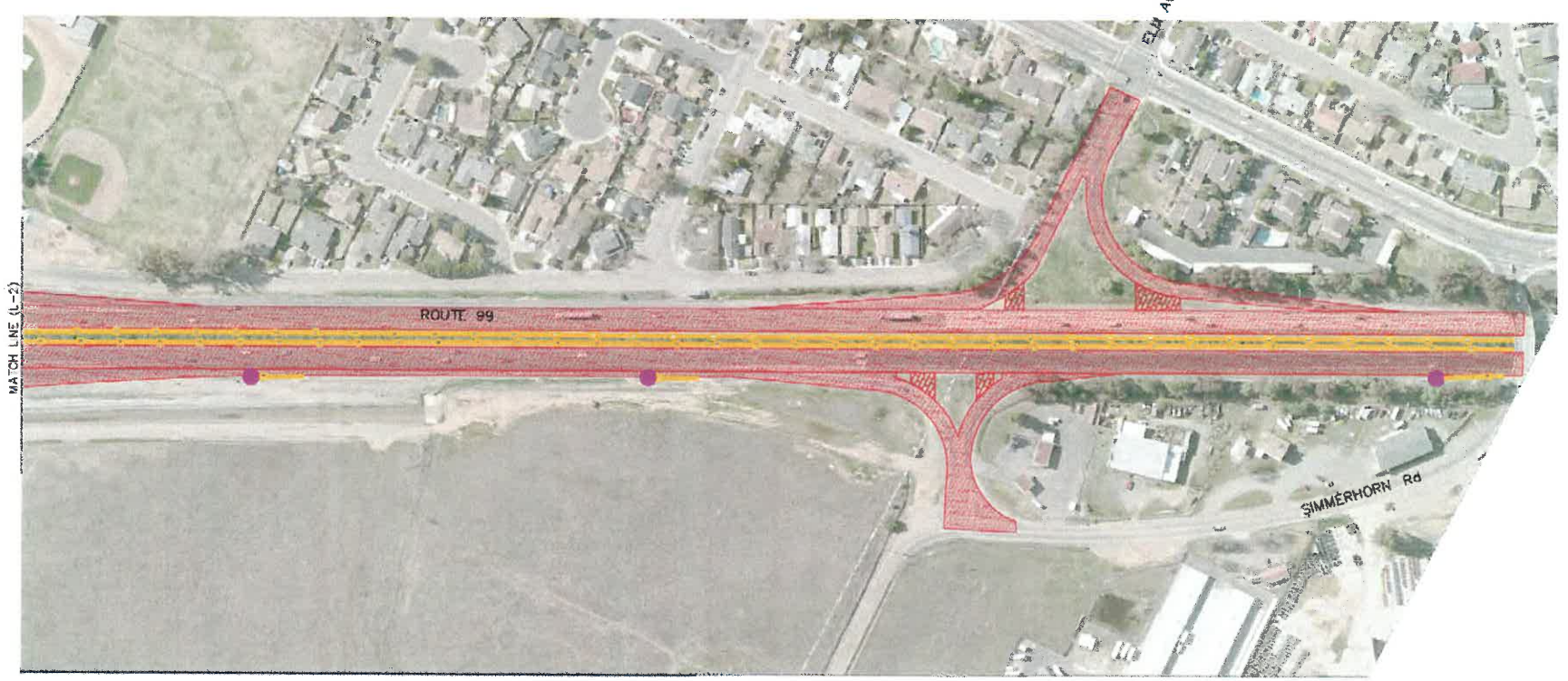
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'
L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK

CALCULATED-DESIGNED BY: SANFORD WONG

CHECKED BY

REVISED BY

DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => %USER
ISSM FILE => @REQUEST

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 03 0H480

DATE PLOTTED => %DATE
TIME PLOTTED => %TIME

00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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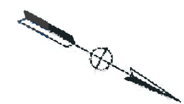
REGISTERED PROFESSIONAL ENGINEER SANFORD WONG No. 66784 Exp. 9/30/18 CIVIL STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'

L-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK

CALCULATED-DESIGNED BY: SANFORD WONG | CHECKED BY

REVISED BY | DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => USER DGN FILE => REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 03-0H480

LAST REVISION 00-00-00 | DATE PLOTTED => DATE TIME PLOTTED => TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SANFORD WONG
No. 66784
Exp. 9/30/18
CIVIL
STATE OF CALIFORNIA

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Sacramento, CA 95816

LAYOUT
SCALE: 1"=100'

L-5

REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: SANFORD WONG
CHECKED BY:

CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

BORDER LAST REVISED 7/2/2010

USERNAME => %USER
ICON FILE => %REQUEST

RELATIVE BORDER SCALE IS 2 INCHES

UNIT 0000

PROJECT NUMBER & PHASE 03-0N480

DATE PLOTTED => %DATE
TIME PLOTTED => %TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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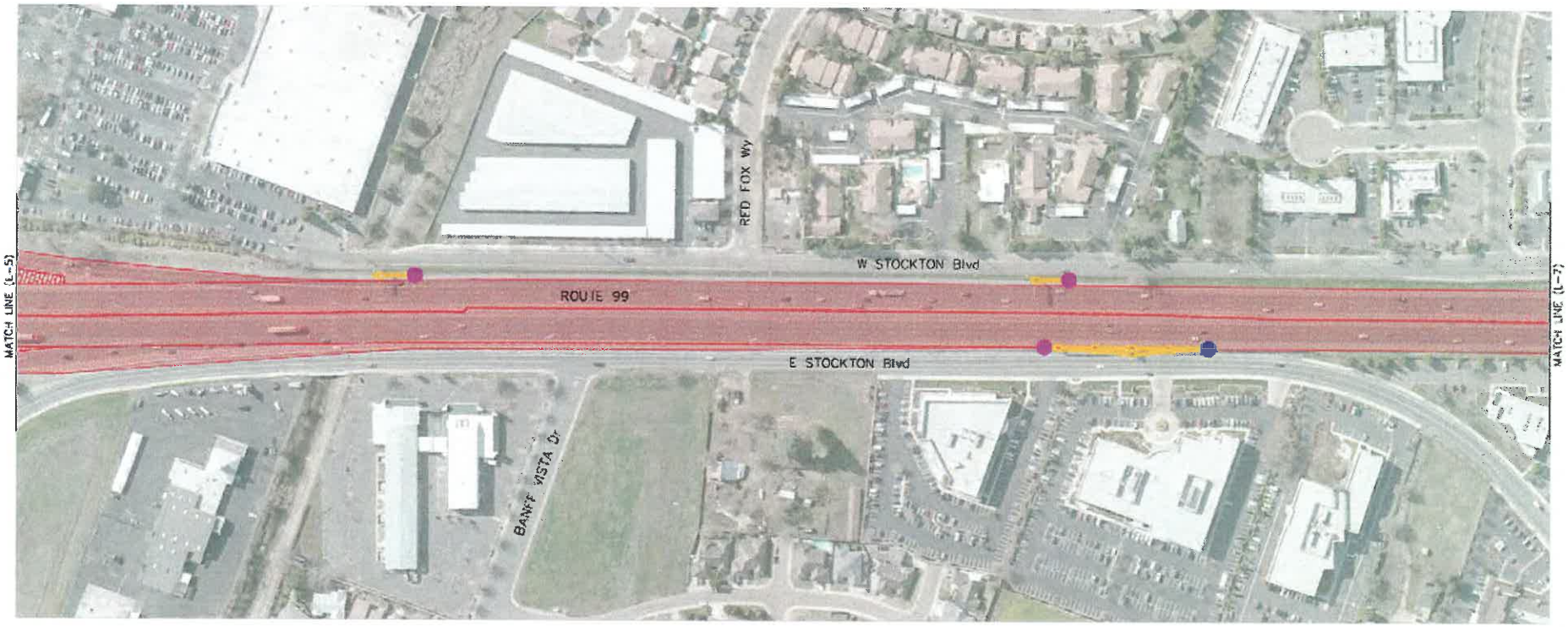
REGISTERED PROFESSIONAL ENGINEER
SANFORD WONG
No. 66784
9/30/18
CIVIL
STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'

L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK
CALCULATED-DESIGNED BY
CHECKED BY
SANFORD WONG
REVISED BY
DATE REVISED

BORDER LAST REVISED 7/2/2010

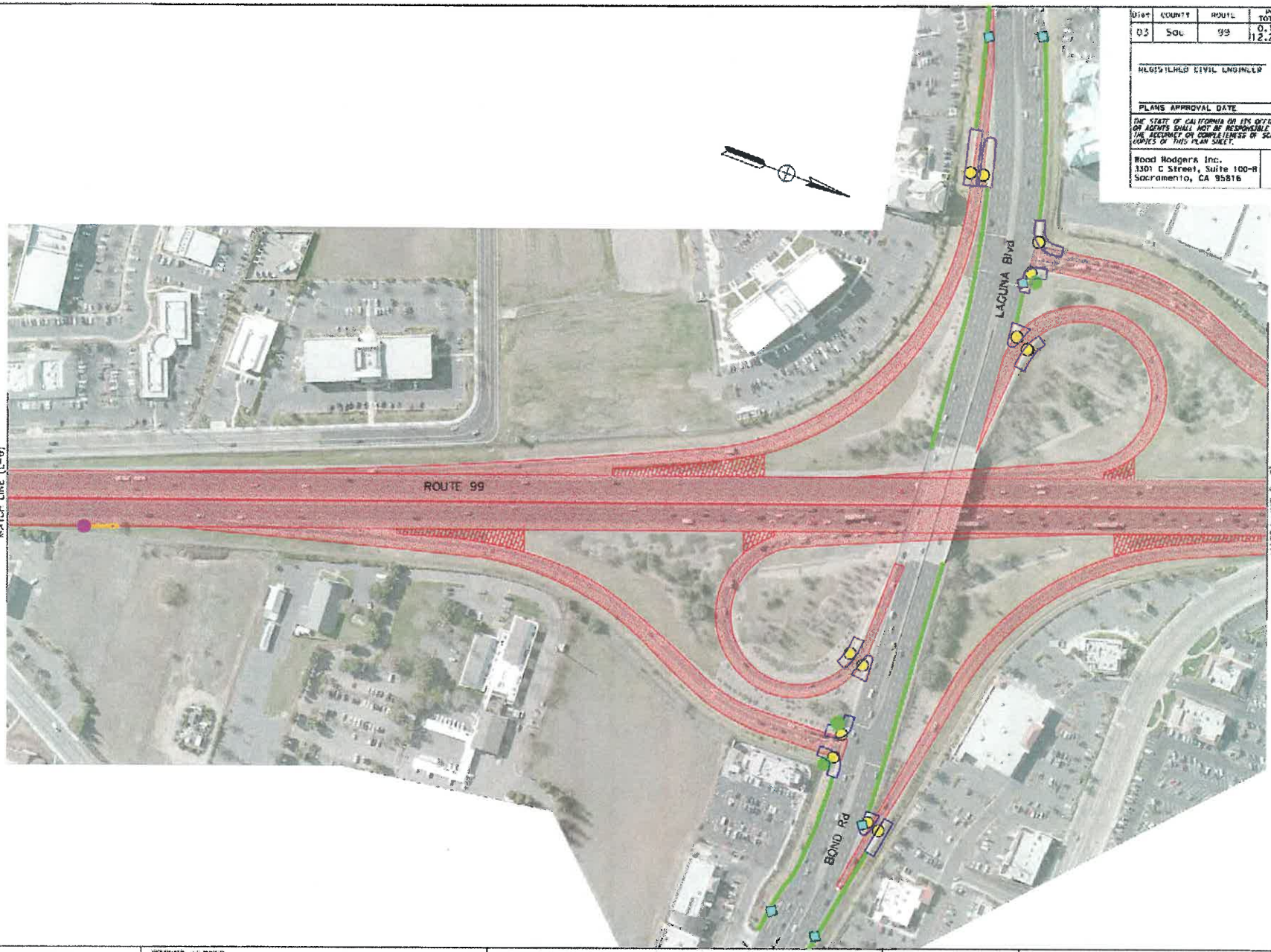
USERNAME => %USER
DGN FILE => %MICROSTA

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 03-0H480

DATE PLOTTED => %%DATE
TIME PLOTTED => %%TIME



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
SANFORD WONG
No. 66784
Exp. 9/30/18
CIVIL
STATE OF CA. U.S.A.

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Sacramento, CA 95816

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK

CALCULATED-DESIGNED BY

CHECKED BY

SANFORD WONG

REVISED BY

DATE REVISED

LAYOUT
SCALE: 1"=100'

L-7

BORDER LAST REVISED 7/2/2010

USERNAME => USER
DGN FILE => BRIDGES

RELATIVE WORDEN SCALE IS IN INCHES

0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 03-0H480

00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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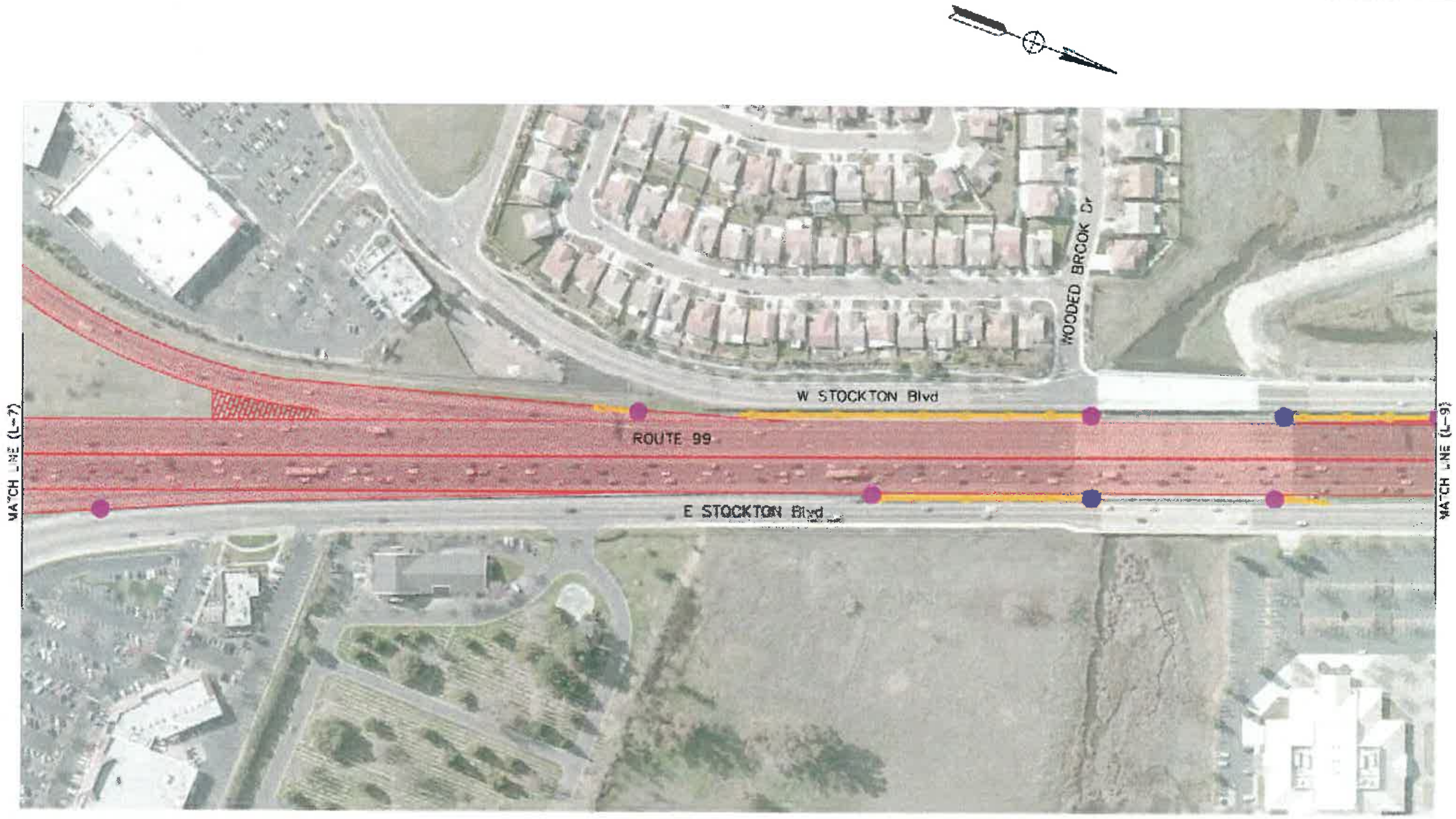
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'

L-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY
Caltrans	MARK RAYBACK	SANFORD WONG	
		CHECKED BY	DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => USER DGN FILE => REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 03-0H480

LAST REVISION 00-00-00 DATE PLOTTED => DATE TIME PLOTTED => TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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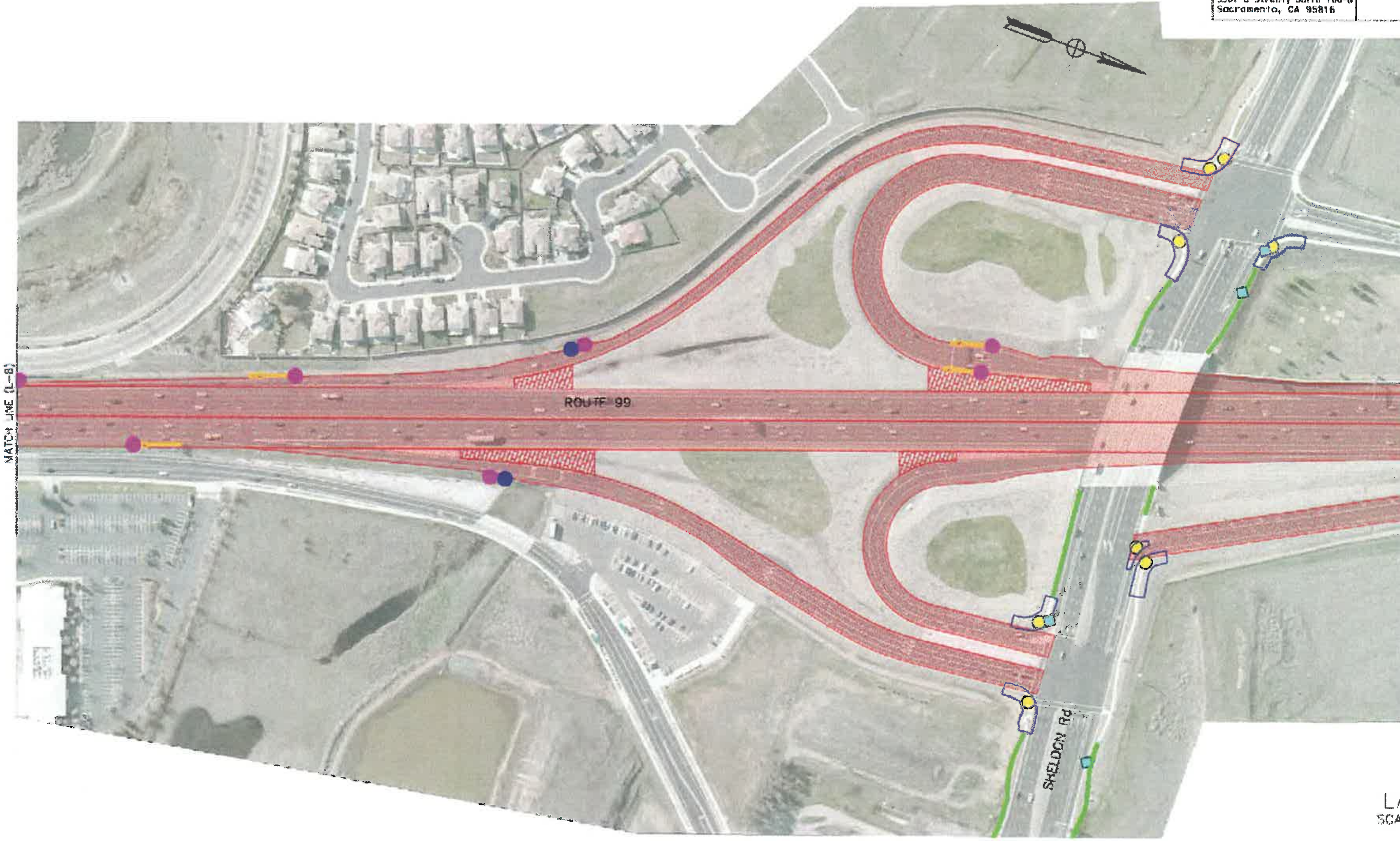
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'
L-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY		REVISED BY
Caltrans	MARK RAYBACK	CHECKED BY	SANFORD WONG	DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => USER DGN FILE => REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 03-0H480

LAST REVISION 00-00-00 | DATE PLOTTED => DATE TIME PLOTTED => TIME

Dist	County	Route	Post Miles Total Project	Sheet No.	Total Sheets
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
SANFORD WONG
No. 66784
Exp. 9/30/18
CIVIL
STATE OF CALIFORNIA

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Sacramento, CA 95816

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK

CALCULATED-DESIGNED BY: SANFORD WONG

CHECKED BY:

REVISED BY

DATE REVISED

LAYOUT
SCALE: 1"=100'

L-10

BORDER LAST REVISED 7/2/2010

USERNAME => RUSER
FOR FILE -> SHEQUES1

RELATIVE BORDER SCALE IS IN INCHES

UNIT 0000

PROJECT NUMBER & PHASE 03 0H480

Dist	County	Route	Post Miles Total Project	Sheet No.	Total Sheets
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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No. 66784
Exp. 9/30/18
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816

LAYOUT
SCALE: 1"=100'

L-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK

CALCULATED-DESIGNED BY: SANFORD WONG

CHECKED BY:

REVISED BY:

DATE REVISED:

DATE PLOTTED => 00-00-00
TIME PLOTTED => HHMM

BORDER LAST REVISED 7/2/2010

USERNAME => USER
DGN FILE => SHEET01.

RELATIVE GRAPHICAL SCALE IS IN INCHES

UNIT 0000

PROJECT NUMBER & PHASE 03 0H480

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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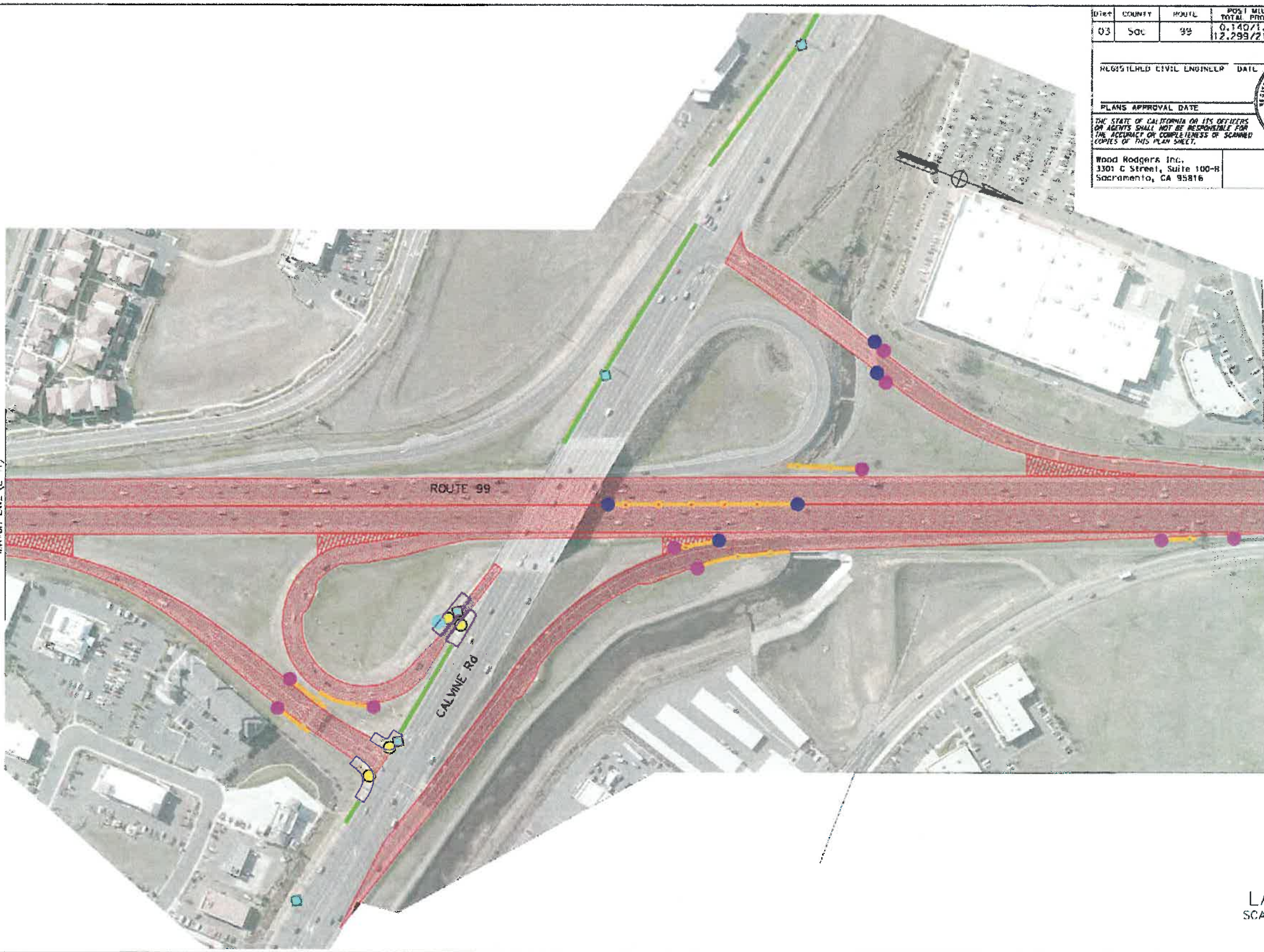
REGISTERED PROFESSIONAL ENGINEER SANFORD WONG No. 66784 Exp. 9/30/18 CIVIL STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'
L-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK

CALCULATED-DESIGNED BY: SANFORD WONG

CHECKED BY

REVISED BY

DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => $USER
DGN FILE => $REQUEST

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE

03-0H480

LAST REVISION 00-00-00 DATE PLOTTED => $DATE TIME PLOTTED => $TIME

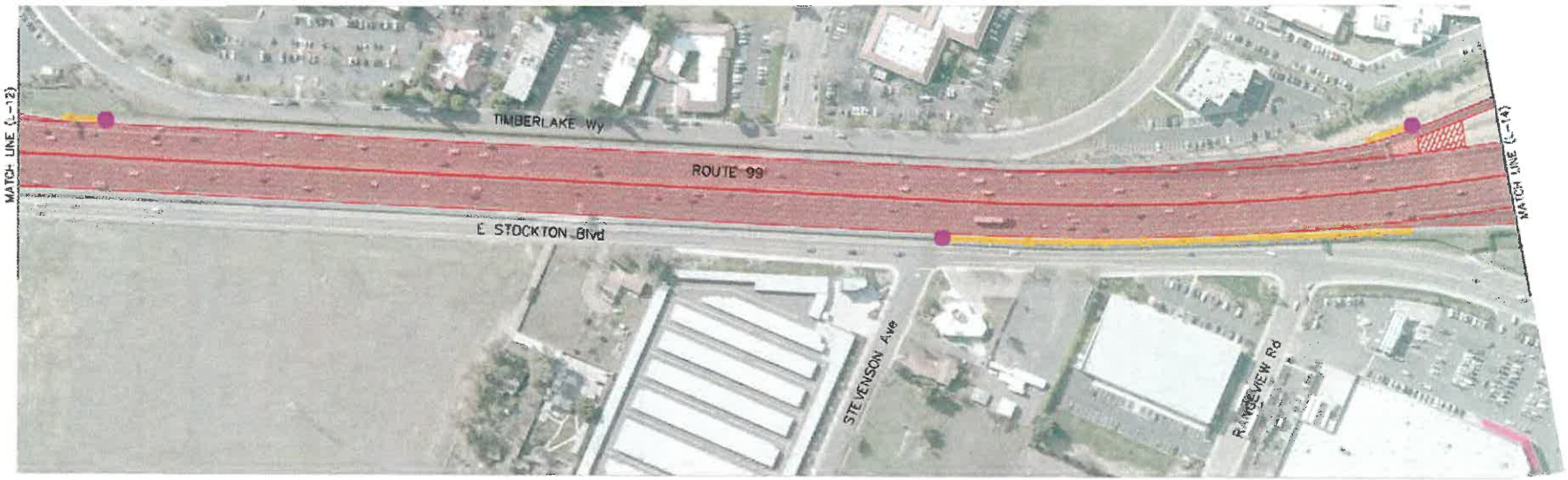
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SANFORD WONG
No. 66784
EXP. 9/30/18
CIVIL
STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'

L-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK

CALCULATED-DESIGNED BY: SANFORD WONG

CHECKED BY

REVISED BY

DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => %USER
DGN FILE => %RFDGNFI

RELATIVE BORDER SCALE IS IN INCHES

UNIT 0000

PROJECT NUMBER & PHASE 03 0H480

DATE PLOTTED => 00-00-00
TIME PLOTTED => 00:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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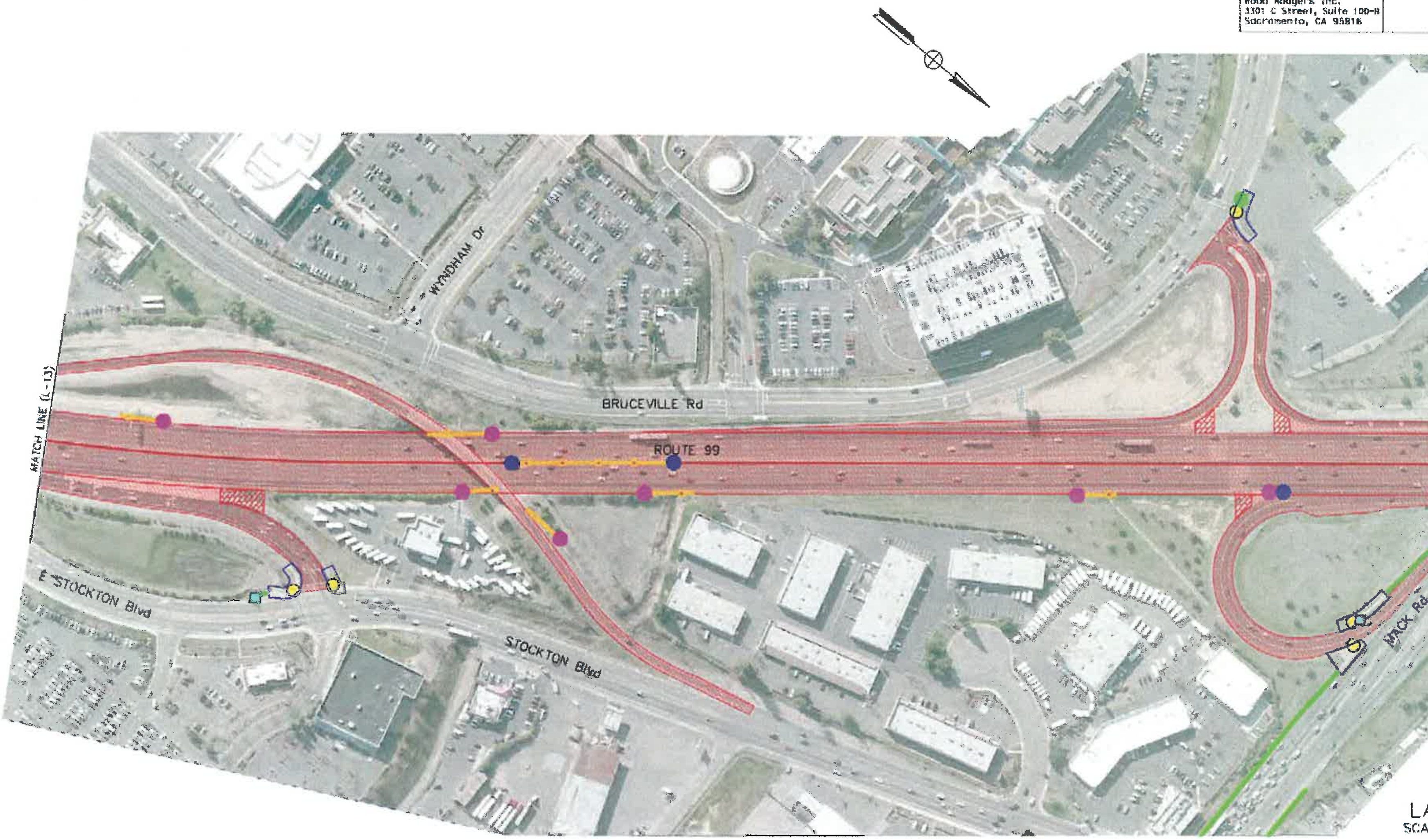
REGISTERED PROFESSIONAL ENGINEER SANFORD WONG No. 66784 Exp. 9/30/18 CIVIL STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'

L-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SANFORD WONG	REVISED BY
Caltrans	MARK RAYBACK	CHECKED BY		DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => USER DGN FILE => REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 03-0H480

DATE PLOTTED => DATE
TIME PLOTTED => TIME
00-00-00

Dist	County	Route	Post Miles Total Project	Sheet No.	Total Sheets
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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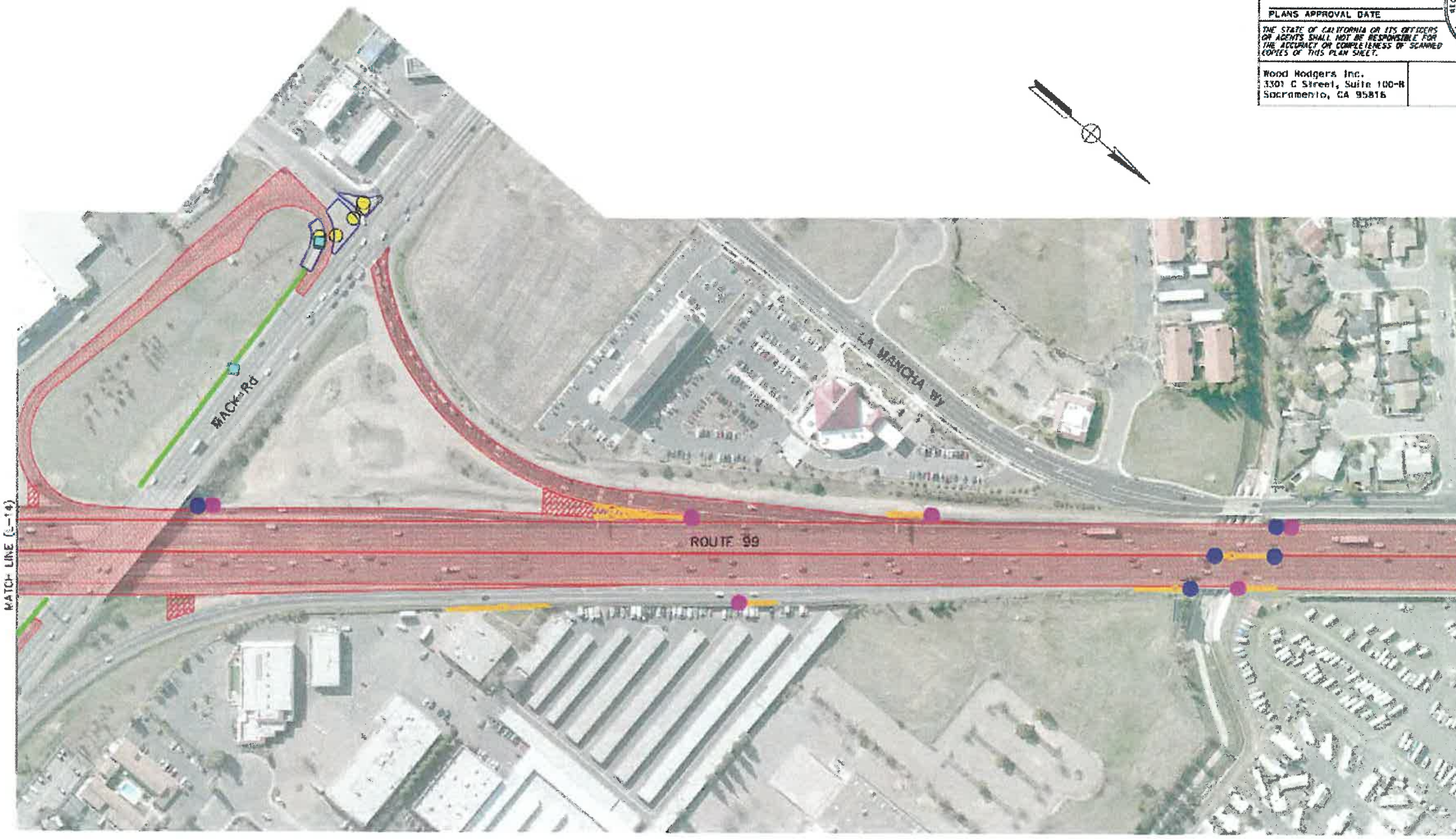
REGISTERED PROFESSIONAL ENGINEER
SANFORD WONG
No. 66784
Exp. 9/30/18
CIVIL
STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'

L-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY		REVISED BY
MARK RAYBACK	CHECKED BY	SANFORD WONG	DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => USER
DGN FILE => REQUEST

RELATIVE BORDER SCALE IS IN INCHES

0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE

03-0H480

LAST REVISION 00-00-00

DATE PLOTTED => DATE
TIME PLOTTED => TIME

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

SANFORD WONG
No. 66784
9/30/18
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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

Wood Rodgers, Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816

LAYOUT
SCALE: 1"=100'
L-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK
CALCULATED-DESIGNED BY
CHECKED BY
SANFORD WONG
REVISED BY
DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => %USER
USER FILE -> $REQUEST

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 03 0R480

DO-00-00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SANFORD WONG No. 66784 Exp. 9/30/16 CIVIL STATE OF CALIFORNIA

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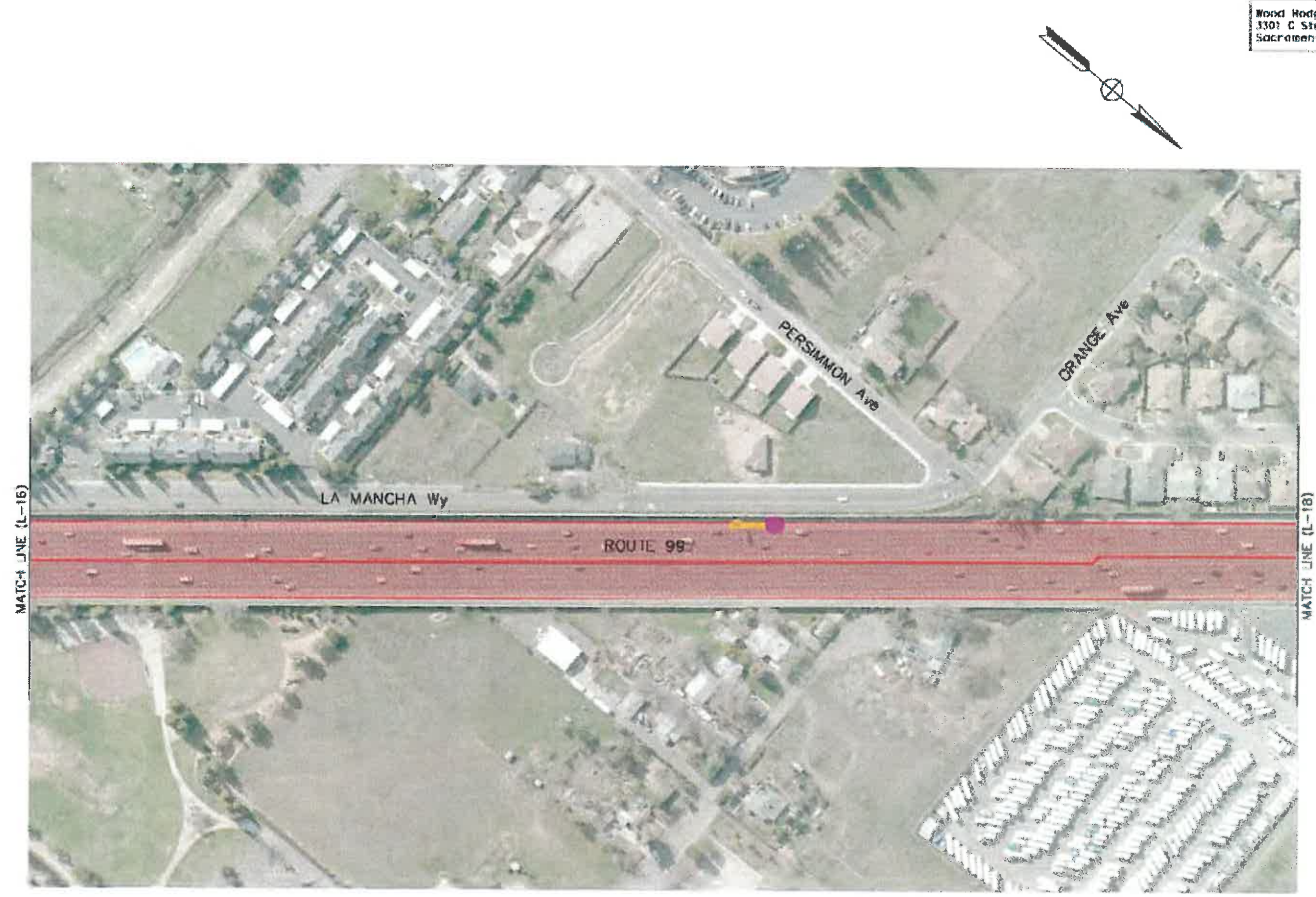
Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'
L-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK

CALCULATED-DESIGNED BY: SANFORD WONG | CHECKED BY

REVISED BY | DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => $USER | DGN FILE => $REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE | 03-0I480

DATE PLOTTED => $DATE | TIME PLOTTED => $TIME | 00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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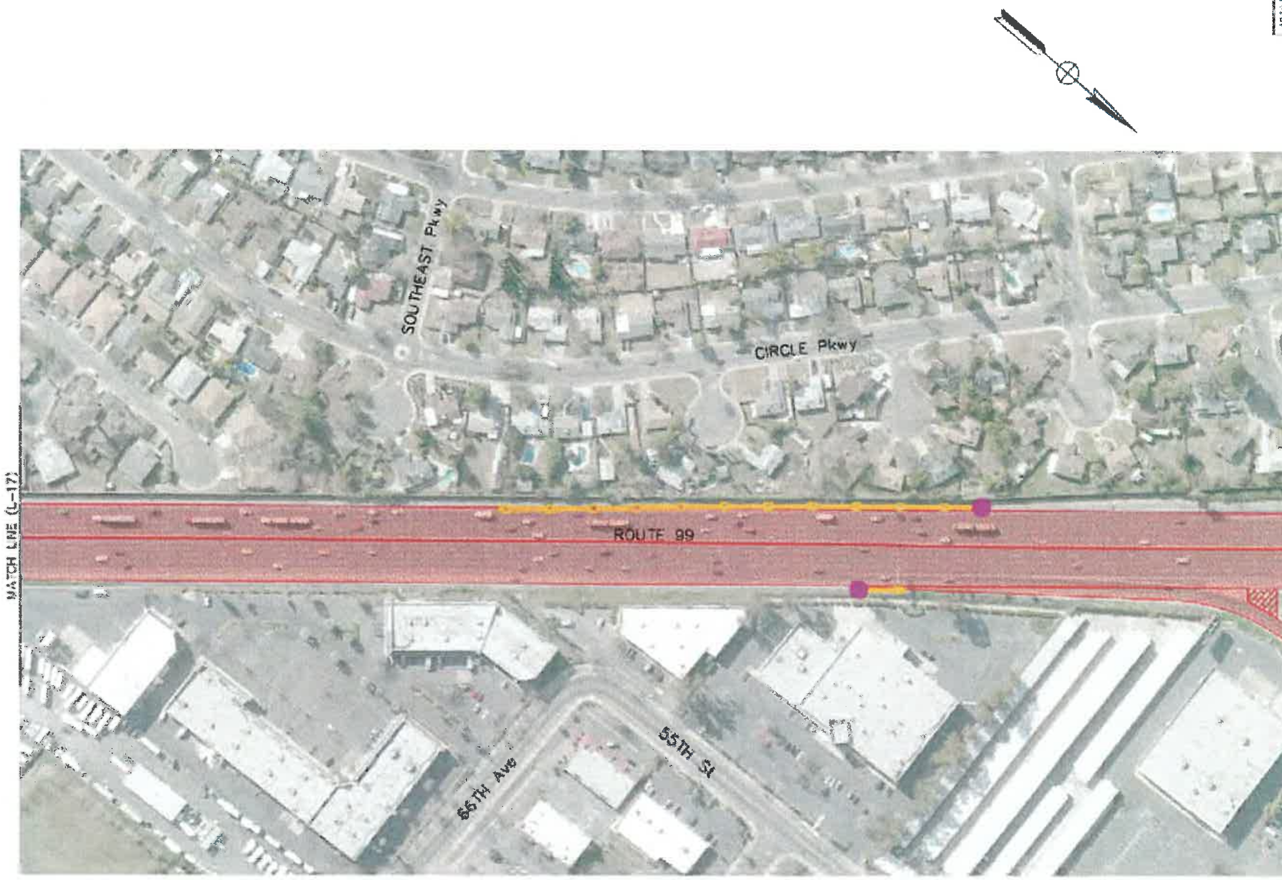
REGISTERED PROFESSIONAL ENGINEER SANFORD WONG No. 66784 Exp. 9/30/18 CIVIL STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'
L-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY		REVISED BY
MARK RAYBACK	CHECKED BY	SANFORD WONG	DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => RUSER DGN FILE => RREQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 03-0H480

LAST REVISION 00-00-00 DATE PLOTTED => DATE TIME PLOTTED => TIME

Dist	County	Route	Post Miles Total Project	Sheet No.	Total Sheets
03	Sac	99	0.140/1.566 12.299/21.573		XXX

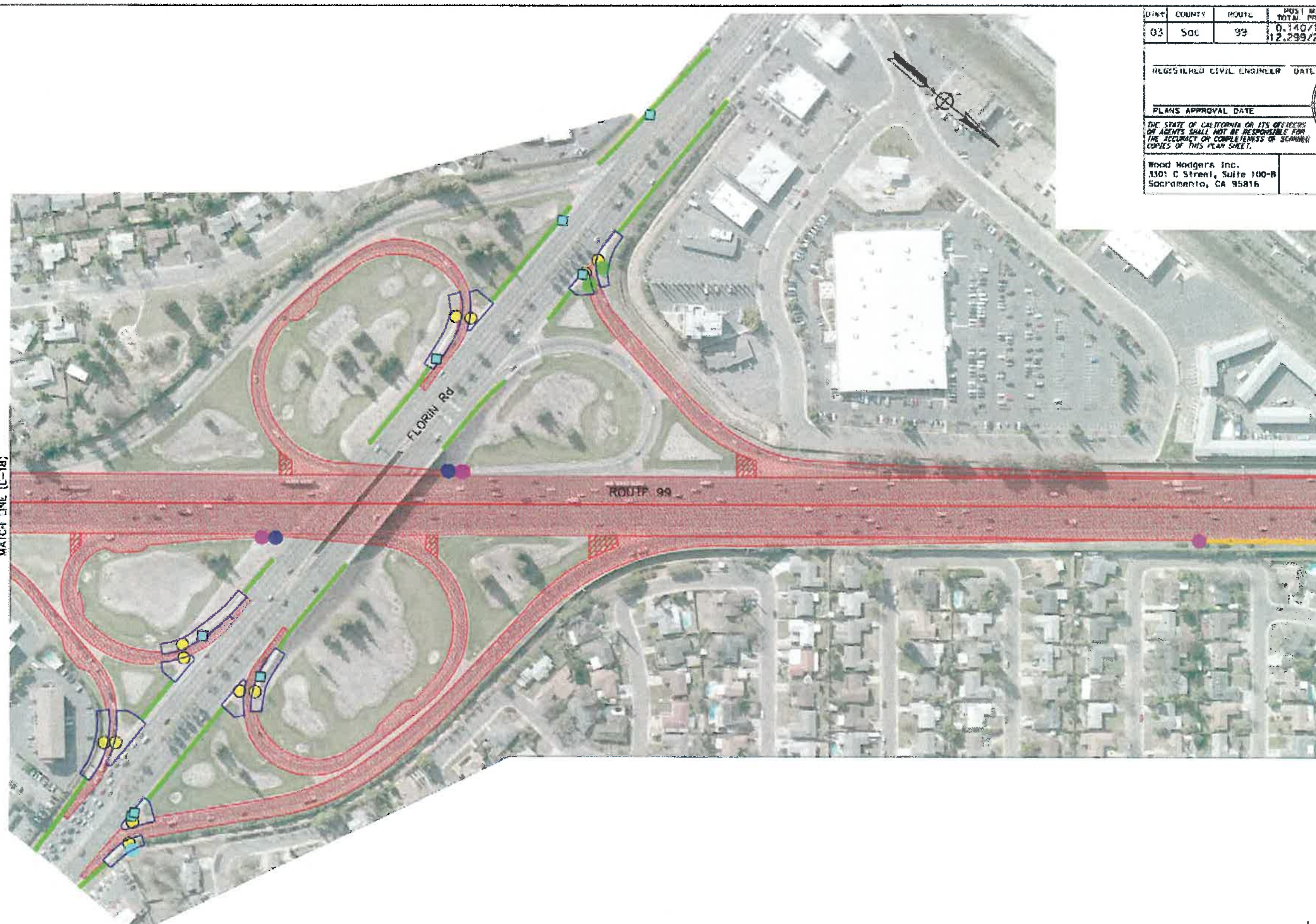
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER SANFORD WONG No. 66784 Exp. 9/30/18 CIVIL STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'

L-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED- DESIGNED BY	SANFORD WONG	REVISED BY
Caltrans	MARK RAYBACK	CHECKED BY		DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => $USER DGN FILE => $REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE | 03-0H480

LAST REVISION 00-00-00 DATE PLOTTED => $DATE TIME PLOTTED => $TIME

Dist	County	Route	Post Miles Total Project	Sheet No.	Total Sheets
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
SANFORD WONG
No. 66784
EXP. 9/30/18
CIVIL
STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816

LAYOUT
SCALE: 1"=100'

L-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK

CALCULATED-DESIGNED BY: SANFORD WONG

CHECKED BY

REVISED BY

DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => USER
DGN FILE => BRIDGE1

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 03-0H480

DATE PLOTTED => 00-00-00
TIME PLOTTED => 00:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

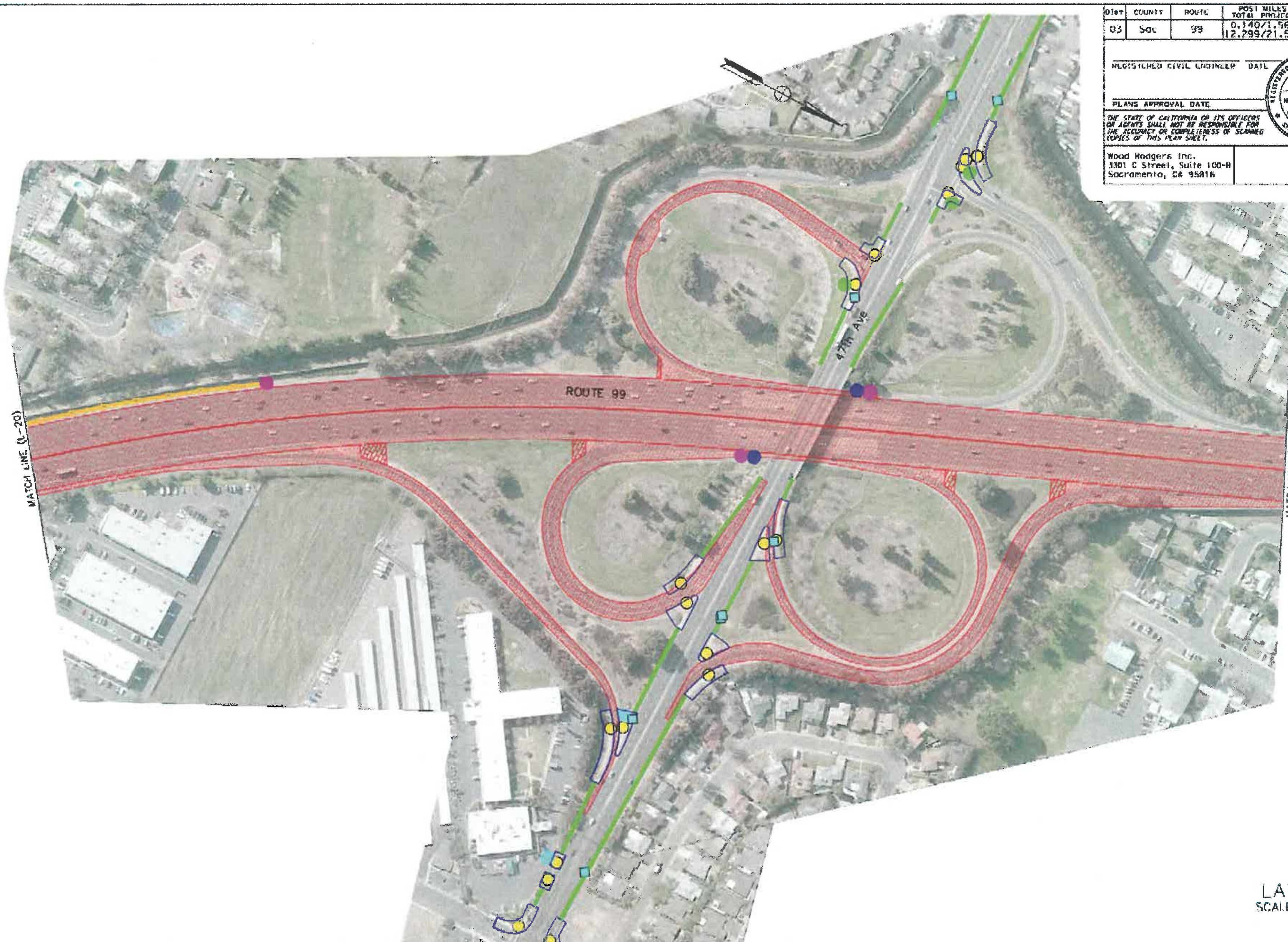
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER SANFORD WONG No. 66784 Exp. 9/30/18 CIVIL STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816



LAYOUT
SCALE: 1"=100'

L-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans | CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK | CALCULATED-DESIGNED BY: SANFORD WONG | CHECKED BY | REVISED BY | DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => USER DGN FILE => REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 03-0H480 | DATE PLOTTED => DATE TIME PLOTTED => TIME 00-00-00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	0.140/1.566 12.299/21.573		XXX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER SANFORD WONG No. 66784 Exp. 9/30/18 CIVIL STATE OF CALIFORNIA

Wood Rodgers Inc.
3301 C Street, Suite 100-B
Sacramento, CA 95816

LAYOUT
SCALE: 1"=100'
L-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans | CONSULTANT FUNCTIONAL SUPERVISOR: MARK RAYBACK | CALCULATED-DESIGNED BY: SANFORD WONG | CHECKED BY | REVISED BY | DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => USER DGN FILE => REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 03-0H480

DATE PLOTTED => DATE TIME PLOTTED => TIME 00-00-00

Attachment D. **Pavement Condition Report & Structural Section Recommendation**

PaveM Scenario Used: #1698
APCS Data Year: 2015

Caltrans Pavement Program
Pavement Condition Summary Report (PaveM)

District: 3; County: Sacramento (SAC); Route: 99

From PM: 0.123 To PM: 2.000

R-Length: 6.950. L-Length: 4.470

R-Lane Miles: 4.436. L-Lane Miles: 4.402 (Unknown lane miles: 0.000)

	Traditional Condition (lane miles)					Assumed MAP-21 Condition (lane miles)				Effectiveness (%)	
Year/ Condition Lane Miles	Green	Yellow	Blue	Orange	Red	Good	Fair	Poor	Total Lane Miles	SHOPP Effectiveness ((Red + Orange) /Total Lane Miles) %	Rehab Effectiveness (Red/Total Lane Miles) %
Current											
2015	3.980	2.412	0.000	2.446	0.000	0.000	8.838	0.000	8.838	27.68	0.00
Predicted											
2016	4.000	2.412	0.000	2.426	0.000	0.010	8.828	0.000	8.838	27.45	0.00
2017	2.010	3.196	0.000	3.632	0.000	0.010	8.828	0.000	8.838	41.10	0.00
2018	0.020	5.186	0.000	2.419	1.213	0.010	8.828	0.000	8.838	41.10	13.72
2019	0.020	5.186	0.000	1.206	2.426	0.010	8.828	0.000	8.838	41.10	27.45
2020	5.556	3.032	0.000	0.118	0.132	0.010	8.828	0.000	8.838	2.83	1.49

PaveM Scenario Used: #1698
APCS Data Year: 2015

Caltrans Pavement Program
Pavement Condition Detailed Report (PaveM)

District: 3; County: Sacramento (SAC); Route: 99
From PM: 0.123 To PM: 2.000

Year: 2019 (Predicted)
R-Length: 6.950. L-Length: 4.470
R-Lane Miles: 4.436. L-Lane Miles: 4.402 (Unknown lane miles: 0.000)

Lane	Type	Concrete			Asphalt			IRI in/mi	Assumed MAP-21 Condition	Traditional Condition	Road Class	Estimated Lane Miles
		1st%	3rd%	Fault%	Alligator A%	Alligator B%	Rut (in)					
Post Mile: 0.123 to 0.130 / Length: 1.240 / Estimated Lane Mileage: 0.014 / State ODM: 274.629 to 274.636												
R1	Flexible				15.70	34.60	0.08	104	Fair	Red	1	0.007
R2	Flexible				18.80	32.70	0.23	121	Fair	Red	1	0.007
Post Mile: 0.130 to 0.140 / Length: 1.240 / Estimated Lane Mileage: 0.020 / State ODM: 274.636 to 274.646												
R1	JPC		0.90	4.97				92	Good	Green	1	0.010
R2	JPC		1.00	17.76				129	Fair	Green	1	0.010
Post Mile: 0.140 to 0.200 / Length: 1.240 / Estimated Lane Mileage: 0.236 / State ODM: 274.646 to 274.706												
L1	Flexible				13.80	9.80	0.08	86	Fair	Yellow	1	0.059
L2	Flexible				25.10	16.80	0.15	99	Fair	Orange	1	0.059
R1	Flexible				15.70	34.60	0.08	104	Fair	Red	1	0.059
R2	Flexible				18.80	32.70	0.23	121	Fair	Red	1	0.059
Post Mile: 0.200 to 1.363 / Length: 1.240 / Estimated Lane Mileage: 4.588 / State ODM: 274.706 to 275.869												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.147
L2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	1.147
R1	Flexible				0.00	0.00	0.00	60	Fair	Red	1	1.147
R2	Flexible				0.00	0.00	0.00	61	Fair	Red	1	1.147
Post Mile: 1.363 to 1.600 / Length: 0.995 / Estimated Lane Mileage: 0.948 / State ODM: 275.869 to 276.106												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.237
L2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.237
R1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.237
R2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.237
Post Mile: 1.600 to 2.358 / Length: 0.995 / Estimated Lane Mileage: 3.032 / State ODM: 276.106 to 276.864												
L1	Flexible				7.50	3.50	0.08	93	Fair	Yellow	1	0.758
L2	Flexible				7.20	5.00	0.09	99	Fair	Yellow	1	0.758
R1	Flexible				6.10	6.30	0.06	89	Fair	Yellow	1	0.758
R2	Flexible				10.00	5.60	0.12	91	Fair	Yellow	1	0.758

PaveM Scenario Used: #1698
APCS Data Year: 2015

Caltrans Pavement Program
Pavement Condition Summary Report (PaveM)

District: 3; County: Sacramento (SAC); Route: 99

From PM: 11.900 To PM: 22.000

R-Length: 13.480. L-Length: 13.478

R-Lane Miles: 33.442. L-Lane Miles: 34.524 (Unknown lane miles: 0.000)

	Traditional Condition (lane miles)					Assumed MAP-21 Condition (lane miles)				Effectiveness (%)	
Year/ Condition Lane Miles	Green	Yellow	Blue	Orange	Red	Good	Fair	Poor	Total Lane Miles	SHOPP Effectiveness ((Red + Orange) /Total Lane Miles) %	Rehab Effectiveness (Red/Total Lane Miles) %
Current											
2015	25.890	25.860	0.000	14.661	1.555	0.000	67.966	0.000	67.966	23.86	2.29
Predicted											
2016	20.229	30.806	0.000	13.902	3.029	0.000	67.966	0.000	67.966	24.91	4.46
2017	9.080	36.704	0.000	16.126	6.056	0.000	67.966	0.000	67.966	32.64	8.91
2018	1.776	39.317	0.000	18.773	8.100	0.000	67.966	0.000	67.966	39.54	11.92
2019	0.468	37.495	0.000	21.539	8.464	0.000	67.966	0.000	67.966	44.14	12.45
2020	63.358	2.661	0.000	1.728	0.219	0.000	67.966	0.000	67.966	2.86	0.32

PaveM Scenario Used: #1698
APCS Data Year: 2015

Caltrans Pavement Program
Pavement Condition Detailed Report (PaveM)

District: 3; County: Sacramento (SAC); Route: 99
From PM: 11.900 To PM: 22.000

Year: 2019 (Predicted)
R-Length: 13.480. L-Length: 13.478
R-Lane Miles: 33.442. L-Lane Miles: 34.524 (Unknown lane miles: 0.000)

Lane	Type	Concrete			Asphalt			IRI in/mi	Assumed MAP-21 Condition	Traditional Condition	Road Class	Estimated Lane Miles
		1st%	3rd%	Fault%	Alligator A%	Alligator B%	Rut (in)					
Post Mile: 11.900 to 11.946 / Length: 1.876 / Estimated Lane Mileage: 0.184 / State ODM: 286.406 to 286.452												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.046
L2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.046
R1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.046
R2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.046
Post Mile: 11.946 to 12.191 / Length: 0.245 / Estimated Lane Mileage: 0.490 / State ODM: 286.427 to 286.672												
L1	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.245
L2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.245
Post Mile: 11.946 to 12.761 / Length: 0.815 / Estimated Lane Mileage: 2.445 / State ODM: 286.452 to 287.267												
R1	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.815
R2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.815
R3	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.815
Post Mile: 12.191 to 12.761 / Length: 0.570 / Estimated Lane Mileage: 1.710 / State ODM: 286.672 to 287.242												
L1	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.570
L2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.570

L3	Flexible				0.00	0.00	0.00	60	Fair	Red	1	0.570
Post Mile: 12.761 to 14.325 / Length: 1.564 / Estimated Lane Mileage: 9.330 / State ODM: 287.267 to 288.831												
L1	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	1.555
L2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	1.555
L3	Flexible				0.00	0.00	0.00	60	Fair	Red	1	1.555
R1	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	1.555
R2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	1.555
R3	Flexible				0.00	0.00	0.00	60	Fair	Red	1	1.555
Post Mile: 14.325 to 14.944 / Length: 0.619 / Estimated Lane Mileage: 1.752 / State ODM: 288.806 to 289.425												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.584
L2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.584
L3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.584
Post Mile: 14.325 to 15.581 / Length: 1.256 / Estimated Lane Mileage: 3.663 / State ODM: 288.831 to 290.087												
R1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.221
R2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.221
R3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.221
Post Mile: 14.944 to 15.217 / Length: 0.273 / Estimated Lane Mileage: 1.092 / State ODM: 289.425 to 289.698												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.273
L2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.273
L3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.273
L4	Flexible				0.00	0.00	0.00	81	Fair	Yellow	1	0.273
Post Mile: 15.217 to 15.581 / Length: 0.364 / Estimated Lane Mileage: 1.092 / State ODM: 289.698 to 290.062												
L1	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.364
L2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.364
L3	Flexible				0.00	0.00	0.00	60	Fair	Red	1	0.364
Post Mile: 15.581 to 16.626 / Length: 1.045 / Estimated Lane Mileage: 3.105 / State ODM: 290.062 to 291.107												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.035
L2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.035
L3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.035
Post Mile: 15.581 to 16.254 / Length: 0.673 / Estimated Lane Mileage: 2.019 / State ODM: 290.087 to 290.760												

R1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.673
R2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.673
R3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.673
Post Mile: 16.254 to 16.931 / Length: 0.677 / Estimated Lane Mileage: 2.668 / State ODM: 290.760 to 291.437												
R1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.667
R2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.667
R3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.667
R4	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.667
Post Mile: 16.626 to 16.931 / Length: 0.305 / Estimated Lane Mileage: 1.220 / State ODM: 291.107 to 291.412												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.305
L2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.305
L3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.305
L4	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.305
Post Mile: 16.931 to 17.242 / Length: 0.311 / Estimated Lane Mileage: 1.866 / State ODM: 291.437 to 291.748												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.311
L2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.311
L3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.311
R1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.311
R2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.311
R3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.311
Post Mile: 17.242 to 17.656 / Length: 0.414 / Estimated Lane Mileage: 1.227 / State ODM: 291.723 to 292.137												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.409
L2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.409
L3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.409
Post Mile: 17.242 to 17.843 / Length: 0.601 / Estimated Lane Mileage: 1.788 / State ODM: 291.748 to 292.349												
R1	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.596
R2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.596
R3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.596
Post Mile: 17.656 to 18.072 / Length: 0.416 / Estimated Lane Mileage: 1.206 / State ODM: 292.137 to 292.553												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.402

L2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.402
L3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.402
Post Mile: 17.843 to 19.612 / Length: 1.769 / Estimated Lane Mileage: 5.265 / State ODM: 292.349 to 294.118												
R1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.755
R2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.755
R3	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.755
Post Mile: 18.072 to 19.612 / Length: 1.540 / Estimated Lane Mileage: 6.160 / State ODM: 292.553 to 294.093												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.540
L2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.540
L3	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	1.540
L4	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	1.540
Post Mile: 19.487 to 19.612 / Length: 1.769 / Estimated Lane Mileage: 0.124 / State ODM: 293.993 to 294.118												
R4	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.124
Post Mile: 19.612 to 20.101 / Length: 0.489 / Estimated Lane Mileage: 1.880 / State ODM: 294.093 to 294.582												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.470
L2	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.470
L3	Flexible				0.00	0.00	0.00	71	Fair	Orange	1	0.470
L4	Flexible				0.00	0.00	0.00	70	Fair	Orange	1	0.470
Post Mile: 19.612 to 20.099 / Length: 0.487 / Estimated Lane Mileage: 1.872 / State ODM: 294.118 to 294.605												
R1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	0.468
R2	Flexible				0.00	0.00	0.00	60	Fair	Green	1	0.468
R3	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.468
R4	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	0.468
Post Mile: 20.101 to 21.500 / Length: 1.472 / Estimated Lane Mileage: 5.596 / State ODM: 294.582 to 295.981												
L1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.399
L2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	1.399
L3	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	1.399
L4	Flexible				0.00	0.00	0.00	63	Fair	Red	1	1.399
Post Mile: 20.099 to 21.500 / Length: 1.474 / Estimated Lane Mileage: 5.604 / State ODM: 294.605 to 296.006												
R1	Flexible				0.00	0.00	0.00	60	Fair	Yellow	1	1.401

R2	Flexible				0.00	0.00	0.00	60	Fair	Orange	1	1.401
R3	Flexible				0.00	0.00	0.00	64	Fair	Red	1	1.401
R4	Flexible				0.00	0.00	0.00	74	Fair	Red	1	1.401
Post Mile: 21.500 to 21.573 / Length: 1.474 / Estimated Lane Mileage: 0.584 / State ODM: 296.006 to 296.079												
L1	Flexible				8.90	5.10	0.16	97	Fair	Yellow	1	0.073
L2	Flexible				11.20	11.10	0.14	98	Fair	Orange	1	0.073
L3	Flexible				23.90	24.90	0.18	109	Fair	Orange	1	0.073
L4	Flexible				19.30	36.00	0.09	123	Fair	Red	1	0.073
R1	Flexible				5.80	5.10	0.17	89	Fair	Yellow	1	0.073
R2	Flexible				4.70	12.00	0.15	104	Fair	Orange	1	0.073
R3	Flexible				19.50	39.70	0.18	124	Fair	Red	1	0.073
R4	Flexible				13.70	34.60	0.12	134	Fair	Red	1	0.073
Post Mile: 21.573 to 22.076 / Length: 0.503 / Estimated Lane Mileage: 4.024 / State ODM: 296.079 to 296.582												
L1	Flexible				9.50	7.40	0.08	93	Fair	Yellow	1	0.503
L2	Flexible				8.70	6.90	0.06	107	Fair	Yellow	1	0.503
L3	Flexible				11.20	6.40	0.05	126	Fair	Yellow	1	0.503
L4	Flexible				13.90	9.80	0.06	140	Fair	Yellow	1	0.503
R1	Flexible				9.00	9.80	0.12	96	Fair	Yellow	1	0.503
R2	Flexible				9.20	5.20	0.08	115	Fair	Yellow	1	0.503
R3	Flexible				7.60	5.70	0.09	110	Fair	Yellow	1	0.503
R4	Flexible				14.20	10.20	0.08	118	Fair	Orange	1	0.503

State of California
DEPARTMENT OF TRANSPORTATION

California State Transportation Agency

Memorandum

Serious drought.
Help Save Water!

To: MR. SANFORD WONG, PE
Project Engineer
Wood Rodgers Consulting

Date: December 16, 2016
File: 03-SAC-99
PM 11.9/21.5
03-0H480
0315000198

From: FERNANDO RIVERA
District Materials Engineer
North Region – Materials Laboratory

Subject: Revised Structural Section Recommendation

As requested in an email to Fernando Rivera dated December 9, 2016, a structural section recommendation has been made for the above referenced project. The request is for HMA overlay and Cold-plane recommendations on Hwy 99 in Sacramento County. The following assumptions have been made:

R-value = Not Applicable
TI_{20} = 14.5 (from Traffic Data)

STRUCTURAL SECTION RECOMMENDATION

Mainline – Existing **TI_{20} = 14.5**

Option 1: (Preferred)

Cold-plane the existing A/C 0.35', remove any loose and spalling pavement, seal all cracks wider than 0.25-in. Overlay the existing pavement with the following:

0.10' RHMA-O
0.25' HMA-A
0.35' Total

Option 2:

Cold-plane the existing A/C 0.08', remove any loose and spalling pavement, seal all cracks wider than 0.25-in. Overlay the existing pavement with the following:

0.10' RHMA-O

Option 3:

Cold-plane the existing A/C 0.15', remove any loose and spalling pavement, seal all cracks wider than 0.25-in. Overlay the existing pavement with the following:

0.10' RHMA-O
0.20' RHMA-G
0.30' Total

MATERIALS SPECIFICATIONS

Hot Mix Asphalt –Type A (HMA-A) - Shall conform to section 39 of the Standard Specifications and the Special Provisions.

Rubberized Hot Mix Asphalt –Type G (RHMA-G) - Shall conform to section 39 of the Standard Specifications and the Special Provisions.

Rubberized Hot Mix Asphalt –Type G (RHMA-O) - Shall conform to section 39 of the Standard Specifications and the Special Provisions.

Asphalt Binder – Asphalt binder used for RHMA-O, RHMA-G and HMA-A shall be grade PG 64-16 and shall conform to sections 39 and 92 of the Standard Specifications.

Paint Binder – shall conform to sections 39, 92 and 94 of the Standard Specifications.

If you have any questions or concerns, please contact Randy Stellhorn at (530) 741-5176 or myself at (530) 741-5378.

c:File

Attachment E. Right of Way Data Sheet

State of California
DEPARTMENT OF TRANSPORTATION

California State Transportation Agency

MEMORANDUM

Serious drought.
Help Save Water!

To: ALI KIANI
Design Engineer
Department of Transportation

Attention: SANDY WONG
Project Engineer - Consultant
Wood Rodgers

Date: March 27, 2017

File: 03-SAC-99-PM-0.0/1.6, 11.9/21.5
EFIS No.: 03 1500 0198
EA: 0H480
Revision

From: JANEL D. WILSON
Assistant Chief
North Region Right of Way
Marysville

Subject: CURRENT ESTIMATED RIGHT OF WAY COSTS

Project Description: Install Rubberized Hot Mix Asphalt (RHMA) Overlay and upgrade curb ramps in compliance with the Americans with Disabilities Act (ADA) on State Route 99 near Galt from the San Joaquin County line to Simmerhorn Road Overcrossing (OC) and from 0.7 miles south of Elk Grove Boulevard OC to Martin Luther King Boulevard Jr OC.

We have completed an estimate of the right of way costs for the above referenced project based on information received from you on January 18, 2017.

Right of Way Lead Time will require a minimum of 3 months after receipt of appraisals maps, utility conflict maps, environmental clearances (HMDD) and Certificate of Sufficiency (COS) to complete the Right of Way Certification. Shorter lead times may require additional support resources and may adversely affect delivery of Right of Way Certification.

Attachment:
Right of Way Data Sheet

cc. Jesus Avila

California State Transportation Agency
RIGHT OF WAY DATASHEET

EA: 0H480
PROJECT NO.: 03 1500 0198
LOCATION: 03-SAC-99-PM-0.0/1.6, 11.9/21.5
DESCRIPTION: Install Rubberized Hot Mix Asphalt (RHMA) Overlay and upgrade curb ramps in compliance with the Americans with Disabilities Act (ADA) on State Route 99 near Galt from the San Joaquin County line to Simmerhorn Road Overcrossing (OC) and from 0.7 miles south of Elk Grove Boulevard OC to Martin Luther King Jr Boulevard OC.

DATE: 3/27/2017
DATASHEET TYPE: Revision

1. Right of Way Cost Estimate:

	Current Value Future Use	Escalation Rate	Escalated Value
A. Total Acquisition Cost	$0		$0
B. Appraisal Fees Estimate	$0	N/A	$0
C. Mitigation Acquisition & Credits	$0		$0
D. Project Development Permit Fees	$0		$0
Subtotal	$0		N/A
E. Utility Relocation (State's Share)	$0		$0
(Owner's Share: $0)			
F. Relocation Assistance (RAP)	$0		$0
G. Clearance/Demolition	$0		$0
H. Title & Escrow	$0		$0
I. Total Estimated Right of Way Cost	$0	**Rounded**	**$0** *
J. Phase 4 estimated expenses			
Railroad	$0		
Construction Contract Work	$0		

2. Current Date of Project Approval (PA&ED) June 1, 2017
Current Date of Right of Way Certification September 1, 2018

3. Parcel Data:

Type		Dual/Appr	Utilities		Railroad	
X	0		U4 - 1	0	C&M Agreement	0
A	0		- 2	0	Service Contract	0
B	0		- 3	0	Easements	0
C	0	0	- 4	0	Rights of Entry	0
D	0	0	U5 - 7	23	Clauses	1
RR	0		- 8	0		
Total	**0**		- 9	0		
Excess	0					

Areas:		Mitigation		Misc. R/W Work	
R/W	N/A	Impacts	0	RAP Displacees	N/A
TCE	N/A	Parcels	0	Clear/Demo	N/A
Excess	N/A	Credits	0	PTE Construct	N/A
Mitigation	N/A	Lump Sum	0	Condemnation	N/A
		Env PTE	0	USA Involvement	No

4. **Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.).**
All work will be performed within the existing RW.

5. **Are any properties acquired for this project expected to be rented, leased, or sold?**
Yes _____ No __X__

6. **Are RAP displacements required?**
Yes _____ No __X__

No. of single family __N/A__ No. of business/nonprofit __N/A__
No. of multi-family __N/A__ No. of farms __N/A__

Based on Draft/Final Relocation Impact Statement/Study dated N/A
__N/A__ Sufficient replacement housing will be available without last resort housing.
__N/A__ Sufficient replacement housing will not be available without last resort housing.

7. **Is there an effect on assessed valuation?**
Yes _____ No __X__ Not Significant _____

8. **Are there any items of Construction Contract Work?**
Yes _____ No __X__
There is no Construction Contract Work associated with the project.

9. **Are utility facilities or rights of way affected?**
Yes _____ No __X__

Names of Utility Companies requiring verification only.
ATT, PGE (gas), SMUD (electric/gas), CA Water, CenturyLink, Charter Communications, Citizens Telecom (Frontier), City of Sacramento-Utility Department, City of Sacramento-Public Works, Comcast Cable, Elk Grove Water Works, Frontier Communications, Integra Inc., Kinder Morgan, Level 3 Communications, Mpower Communications, Sacramento Area Sewer District (SASD), Sacramento Suburban Water

Names of Utility Companies requiring involvements.
None anticipated

Additional information concerning Utility Involvement on this project.
Due to the type of project (RHMA) it is anticipated that there will be no utility involvement or relocation. Therefore no funds for positive location are being requested. No design exceptions are expected.

10. **Are railroad facilities or rights of way affected?**
Yes __X__ No _____ Phase 4 Capital __$0__
There are Union Pacific Railroad Co tracks within the project limits that will not be affected by the proposed construction. A Railroad Clearance Memo with short clauses nSSPs will be issued to the OE with the RW Cert Request.

11. **Are USA Lands or Rights Affected?**
Yes _____ No __X__ Phase 4 Capital __$0__

Agencies Involved:

US Forest Service _____	BLM _____	Army Corps of Engineers _____
National Parks _____	BIA _____	Veterans Administration _____
US Fish & Wildlife _____	GSA _____	_____

Rights or Permissions to acquire:

Easement _____	Special Use Permit _____	Courtesy Letter _____
Right of Way Grant _____	Cooperative Work Agreement _____	Cost Recovery _____
Mineral Agreement _____	Letter of Concurrence _____	Timber Sale _____

No Federal Lands on this project.

12. **Is an RE Office required for the project?**
Yes _____ No __X__

13. **Were any previously unidentified sites with hazardous waste and/or material found?**
Yes _____ None Evident __X__

14. Are there material borrow and/or disposal sites required?

No __X__ Optional _____ Mandatory _____

15. Are there potential relinquishments and/or abandonments?

Yes _____ No __X__

16. Are there any existing and/or potential airspace sites?

Yes _____ No __X__

17. What type of mitigation is required for the project?

Mitigation is not anticipated.

18. Is it anticipated that Caltrans will perform all Right of Way work?

Yes __X__ No _____

19. Indicate the anticipated Right of Way schedule and lead time requirements.

Right of Way Lead Time will require a minimum of **3** months after we receive final appraisal maps, utility conflict maps, necessary environmental clearances, and freeway agreements have been approved and obtained, to complete the Right of Way Certification process.

20. Assumptions and limiting Conditions: (Check boxes that apply.)

- ☑ Mapping did not provide sufficient detail to determine the limits of the right of way required.
- ☑ Design will secure necessary encroachment permits from local agencies, Reclamation Districts, Central Valley Flood Protection Board, etc. in advance of construction.
- ☑ Project permits are not required for the project.
- ☑ All work and access will be within the State's current Right of Way.
- ☑ If the contractor requires a staging area, Standard Specifications (Sections 5-1.32) indicates that the contractor will be responsible for securing locations for staging and storage.

Evaluation Prepared By:

Right of Way: _____ Date 4/3/17

ROBERT ODOM
Right of Way Agent

Recommended: _____ Date 4/3/17

JENNIFER WISNIEWSKI
Acting Senior Right of Way Agent
Project Delivery Branch
Marysville

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

for _____ Date 4/3/17

JANEL D. WILSON
Assistant Chief
North Region Right of Way
Marysville

Reviewed By

RW Planning & Management: _____ Date 4/3/17

PAUL SLOULIN

State of California
DEPARTMENT OF TRANSPORTATION

California State Transportation Agency

Serious drought.
Help Save Water!

MEMORANDUM

To: JESUS AVILA
Project Manager

Attention: JAMES DAY
Assistant Project Manager

From: JANEL D. WILSON
Assistant Chief
North Region Right of Way
Marysville

Date: March 27, 2017

File: 03-SAC-99-PM-0.0/1.6, 11.9/21.5
EFIS: 03 1500 0198
EA: 0H480
Revision

Project : Install Rubberized Hot Mix Asphalt (RHMA) Overlay and upgrade curb ramps in compliance with the Americans with Disabilities Act (ADA) on State Route 99 near Galt from the San Joaquin County line to Simmerhorn Road Overcrossing (OC) and from 0.7 miles south of Elk Grove Boulevard OC to Martin Luther King Jr Boulevard OC.

Subject: PRSM Resource Hours for Right of Way

Task	Task Description	ETC	ACTUAL	EAC
K Phase (PID)				
100.05	Project Management-PID Component	-	-	-
150	Develop Project Initiation Document (PID)	-	0	-
O Phase (PA&ED)				
100.10	Project Management-PA&ED Component	5	9	14
160.10	Engineering Studies	18	28	46
160.30	Environmental Study Request (ESR)	-	-	-
165.10	General Environmental Studies	-	-	-
170.10	Permits	-	-	-
170.15	Railroad Agreements	-	-	-
170.25	Agreement for Non Commercial Material Sites	-	-	-
175.10	Public Hearings	-	-	-
180.05	Final Project Report	5	-	5
180.10	Final Environmental Document	-	-	-
1 Phase (PS&E)				
100.15	Project Management-PS&E Component	10	-	10
185.05	Update Project Information	15	-	15
185.20	Engineering Reports	168	-	168
185.25	Right of Way Requirements Determination	4	-	4
205.10	Permits	-	-	-
205.15	Railroad Agreements	-	-	-
205.25	Agreement Material Sites	-	-	-
235.05	Environmental Mitigation	4	-	4
235.10	Detailed Site Investigation for Hazardous Waste	-	-	-
255	Circulate, Review and Prepare Final District PS&E Package	5	-	5
2 Phase (R/W)				
100.25	Project Management-RW Component	20	-	20
195.40	Property Management	-	-	-
195.45	Excess Land	-	-	-
200.15	Approve Utility Relocation Plan	-	-	-
200.20	Utility Relocation Package	-	-	-
200.25	Utility Relocation Management	-	-	-
200.30	Utility Close Out	20	-	20
225.50	Parcel and Project Documentation	20	-	20
225.60	RW Appraisals	-	-	-
225.65	RW Acquisitions	4	-	4
225.70	RW Relocation Assistance	-	-	-
225.75	RW Clearance	-	-	-
225.80	RW Condemnation	-	-	-
245.50	Parcel and Project Documentation	10	-	10
245.60	RW Appraisals	-	-	-
245.65	RW Acquisitions	-	-	-
245.70	RW Relocation Assistance	-	-	-
245.75	RW Clearance	-	-	-
245.80	RW Condemnation	-	-	-
3 Phase (CONSTRUCTION)				
270.25	Construction Contract Administration Work	-	-	-
285	Contract Change Order Administration	-	-	-
	Total Hours for This Project:	308	37	345

"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

Attachment F. Transportation Management Plan Data Sheet

State of California
DEPARTMENT OF TRANSPORTATION

California State Transportation Agency

Memorandum

Serious drought.
Help Save Water!

To: Sanford Wong
Wood Rogers, Inc.
3301 C St, Bldg. 100-M
Sacramento, CA 95816

Date: December 22, 2016

File: 03-0H480
#0315000195
Sac 99-PM: 0.0/1.6,
11.9/21.5

From: Mark Ijadi,
TMP Coordinator
D3-Transportation Management Planning Office

Subject: Transportation Management Plan (TMP) Data Sheet

Background

This route is a major regional route, used by regional commuters, interregional travelers and commercial truck traffic.
This project will preserve and extend the life of the existing pavement and improve the ride quality of the main lines and its ramps, within project limits. The project also proposes to upgrade, adjust, extend, place and or replace the following: guardrail, barriers, crash cushions, dikes, curbs, curb ramps, pullouts, drainage inlets, overside drains, traffic sensors, loops and delineations.
Existing curb ramps not meeting the current accessibility standards will need to be reconstructed and constructing new curb ramps that are missing at locations where they should be in place.
Existing pedestrian buttons(s) at curb ramps that are non-audible, and or not meeting height, and/or location requirements shall be replaced with a current standard pedestrian button, including if necessary, new posts, conduits, and wiring.

For Traffic volumes and %Truck volumes refer to **Table-1.**

Table-1: Traffic Volumes (2015 Traffic Volumes on the California State Highways)				
Location Description	**Type of Roadway**	**Peak-Hour, vph** (both directions combined)	**AADT, vpd**	**%Trucks**
03-Sac-99-PM 1.0	Freeway	5,700	68,600	15.0
03-Sac-99-PM 12.8	Freeway	6,000	71,500	15.4
03-Sac-99-PM 17.6	Freeway	10,000	136,500	6.0
03-Sac-99-PM 21.9	Freeway	17,700	202,400	5.7

Recommendations

- Due to high traffic volumes in these locations, work will be limited to nighttime hours and no lane or shoulder closures will be allowed during daytime and peak commute hours on weekdays.
- No lane closures, shoulder closures, or other traffic restrictions will be allowed on Special Days, designated legal holidays and the day preceding designated legal holidays; and when construction operations are not actively in progress.
- Coordinating with adjacent projects within, or nearby the project limits will be required to avoid conflicts (i. e. EA 03-1H630). Ensure that all projects are coordinated during construction to reduce any interference among the various projects.
- No two consecutive on-ramps or off-ramps will be closed at the same time.
- When K-rail is used as a separation barrier between the work zone and the traveled way, there is no closure time restrict.
- Pedestrian access must be maintained during construction, with at least one sidewalk open on one side of the roadway at all times. Additional signs will be required to detour pedestrians when sidewalks are closed for contract work.
- Lane closures will be performed in accordance with Standard Plan Sheet T10, "Traffic Control System for Lane Closure on Freeways and Expressways" and with Standard Plan Sheet T10A, "Traffic Control System for Lane and Complete Closure on Freeways and Expressways".

- Ramp closures will be performed in accordance with Standard Plan Sheet T14, "Traffic Control System for Ramp Closure".
- Portable changeable message signs (PCMS) will be required in direction of traffic during construction for each lane, shoulder and connector closure.
- Delay damage clauses will be used with this project.
- Coordination with the City of Elk Grove is required.
- Work at these locations may require assistance of COZEEP, but full time COZEEP presence is not anticipated.
- TMP SSPs, lane closure charts, and cost estimate will be developed for the final TMP prior to P&E.

Cost

- For estimating purposes, use $2,500 per working day that requires traffic control, these items include:
  - Traffic Control System and Maintain Traffic: $2,250/ traffic control day
  - Portable Changeable Message Signs(2 signs): $250/ traffic control day

- The cost for Public Information Office (PIO) is estimated at $10,000 (lump sum) for this project. The PIO funds are paid for public outreach in the form of fliers, mailers, brochures and other uses as determined by the Public Information Officer

- COZEEP is estimated at $1,150 per working day and $2,300 per working night whenever CHP involvement is needed during construction. COZEEP estimate includes two officers per vehicle when performing night work.

P & E Requirement

To complete a TMP for this project, please provide the following to the Office of Traffic Management Planning at least three months prior to P&E: project description, title sheet, typical cross sections, layout sheets, construction cost estimates, number of working days, project schedule, and a contact person.

Attachments:

- TMP Checklist

D-3 TRANSPORTATION MANAGEMENT PLAN CHECKLIST

District / EA: 03-0H480
Date Prepared: December 22, 2016
Prepared By: Mark Ijadi
Stage of Project (X box) ☐ PID ☒ PSR ☐ PR ☐ PS&E

Co.Rte.-PM. Sac 99-PM: 0.0/1.6, 11.9/21.5
Location Sacramento

Description: RHMA overlay of the main lines and its ramps

	REQUIRED	RECOMMENDED	NOT APPLICABLE	BEES Item No.	COMMENTS	UNIT COST	REQUIRED IN SPEC.
1.0 Public Information Strategies							
1.1 Brochures and Mailers		X					
1.2 Media Releases (& minority media sources)		X					
1.3 Paid Advertising			X				
1.4 Public Information Center			X				
1.5 Public Meetings/Speakers Bureau			X	066063			
1.6 Project Telephone Hotline			X				
1.7 Internet, E-Mail			X				
1.8 Local cable TV and News		X					
1.9 Notification to Impacted groups (i.e. bicycle users, pedestrians with disabilities, others)			X				
1.10 Project Web Page			X				
1.11 Caltrans Public Information Office		X		066063			
1.12 Consultant Public Information Office			X				
1.13 Other items			X				
2.0 Traveler Information Strategies							
2.1 Changeable Message Signs (permanent)			X				
2.2 Changeable Message Signs (portable)	X			128652			
2.4 Traveler Information Systems (CHIN/Internet)		X		861985	if available		
2.5 Highway Advisory Radio "HAR" (fixed or mobile)			X	860520			
2.6 Radar Speed Sign			X	066064			
2.8 Revised Transit Schedules/ Maps			X				
2.9 Bicycle community information			X				
2.10 Other item			X				
3.0 Incident Management							
3.1 COZEEP		X		066062			
3.2 Freeway Service Patrol (tow truck service patrol)			X	066065			
3.3 Traffic Surveillance Stations (loops or CCTV)			X	066876			
3.4 Transportation Management Center		X					
3.5 Traffic Control Inspector (Caltrans)	X						
3.6 Traffic Management Team			X				
3.7 On-site Traffic Advisor (contractor)			X				
3.8 Other Items			X				
4.0 Construction Strategies							
4.1 Delay damage clause	X						
4.2 Night work	X				Per Lane Closure Charts		
4.3 Weekend Work		X			Per Lane Closure Charts		
4.4 Extended Weekend Closures			X				
4.5 Planned Lane Closures	X				Per Lane Closure Charts		
4.6 Planned Ramp/Connector Closures	X				Per Lane Closure Charts		
4.7 Total Facility Closure			X				
4.8 Project Phasing			X				
4.9 Truck Traffic Restrictions			X				
4.10 Reduced Lane Widths		X					

	REQUIRED	RECOMMENDED	NOT APPLICABLE	BEES Item No.	COMMENTS	UNIT COST	REQUIRED IN SPEC.
4.0 Construction Strategies (Continued)							
4.11 Temporary K-Rail		X		129000			
4.12 Temporary Traffic Screens			X	129150			
4.13 Reduced Speed Zones			X				
4.14 Traffic Control Improvements			X				
4.15 Contingency Plans			X				
4.15.1 Material Plant on standby			X				
4.15.2 Extra Critical Equipment on site			X				
4.15.3 Material Testing Plan			X				
4.15.4 Alternate Material on site (In case of failure or major delays)			X				
4.15.5 Emergency Detour Plan		X					
4.15.6 Emergency Notification Plan		X					
4.15.7 Weather Conditions Plan		X					
4.15.8 Delay Timing and Documentation Plan			X				
4.15.9 Late Closure Reopening Notification	X						
4.16 Signal timing modification			X				
4.17 Coordination with adjacent construction	X						
4.18 Right of Way Delay			X	066022			
4.19 Other Items			X				
5.0 Demand Management							
5.1 HOV Lanes/Ramps			X				
5.2 Ramp metering			X				
5.3 Park-and-Ride Lots			X				
5.4 Parking Management/Pricing			X				
5.5 Rideshare Incentives			X				
5.6 Rideshare Marketing			X	066069			
5.7 Transit, Train, or Light-Rail Incentives			X	066066			
5.8 Transit Service Modification			X				
5.9 Variable Work Hours			X				
5.10 Telecommute			X				
5.11 Other Items			X				
6.0 Alternate Route Strategies							
6.1 Ramp Closures		X					
6.2 Street Improvements			X				
6.3 Reversible Lanes			X				
6.4 Temporary Lanes or Shoulders Use			X				
6.5 Freeway to freeway connector closures			X				
6.6 Encroachment Permit from City/County			X				
7.0 Other Strategies							
7.1 Application of new technology			X				
7.2 Other Items			X				

Comments:

Attachment G. Estimate

PROJECT

CaPM-PSSR COST ESTIMATE

EA: 03-0H480 *EA: 03-0H480 PID: 0315000198*

PID: 0315000198 **District-County-Route:** 03-Sac-99

PM: 0.0-1.6 & 11.99-21.5

Type of Estimate : CaPM Project Scope Summary Report

Program Code :

Project Limits : From southern Galt City Limit to Simmerhorn Rd, and from 0.7 mile south of Elk Grove Blvd to MLK Jr. Blvd OC

Project Description: To review and update the scope of work as descripbed in the PID, which is an approved CaPM-PSSR

Scope : Asscess & obtain additional information to more fully develop the project scope and cost for the next phase of the project, PS&E

Alternative : Alternative #1

SUMMARY OF PROJECT COST ESTIMATE

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$ 36,501,100	$ 39,324,747
TOTAL STRUCTURES COST	$ -	$ -
SUBTOTAL CONSTRUCTION COST	$ 36,501,100	$ 39,324,747
TOTAL RIGHT OF WAY COST	$ -	$ -
TOTAL CAPITAL OUTLAY COSTS	**$ 36,502,000**	**$ 39,325,000**
PR/ED SUPPORT	$ -	$ -
PS&E SUPPORT	$ -	$ -
RIGHT OF WAY SUPPORT	$ -	$ -
CONSTRUCTION SUPPORT	$ -	$ -
TOTAL SUPPORT COST	$ -	$ -
TOTAL PROJECT COST	**$ 36,550,000**	**$ 39,350,000**

If Project has been programmed enter Programmed Amount

	Month	/ Year
Date of Estimate (Month/Year)	6	/ 2017
Estimated Construction Start (Month/Year)	4	/ 2020
Number of Working Days =	100	
Estimated Mid-Point of Construction (Month/Year)	10	/ 2021
Estimated Construction End (Month/Year)	4	/ 2023
Number of Plant Establishment Days	522	

Estimated Project Schedule

PID Approval	June-15
PA/ED Approval	June-18
PS&E	August-19
RTL	October-18
Begin Construction	April-20

Reviewed by District O.E.

Office Engineer	Date	Phone
	xx/xx/xxxx	(xxx) xxx-xxxx

Approved by Project Manager

Project Manager	Date	Phone
	xx/xx/xxxx	(xxx) xxx-xxxx

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	100,000
2	**Pavement Structural Section**	$	23,800,700
3	**Drainage**	$	327,000
4	**Specialty Items**	$	2,153,300
5	**Environmental**	$	45,000
6	**Traffic Items**	$	2,167,700
7	**Detours**	$	-
8	**Minor Items**	$	286,000
9	**Roadway Mobilization**	$	1,444,000
10	**Supplemental Work**	$	288,800
11	**State Furnished**		$298,800
12	**Time-Related Overhead**	$	866,400.00
13	**Roadway Contingency**		$4,723,400
	TOTAL ROADWAY ITEMS	**$**	**36,501,100**

Estimate Prepared By :	Ahmad Nawid Nessar	4/12/2017	(916) 326-4492
	Name and Title	Date	Phone
Estimate Reviewed By :	Sanford "Sandy" Wong	4/12/2017	(916) 449-2204
	Name and Title	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY		x		=	$	-
19010X	Roadway Excavation (Type X) ADL	CY		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
198010	Imported Borrow	CY		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS	1	x	100,000.00	=	$	100,000
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
XXXXXX	Some Item	Unit						

TOTAL EARTHWORK SECTION ITEMS	$	100,000

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
404092	Seal Pavement Joint	LF		x		=	$	-
404093	Seal Isolation Joint	LF		x		=	$	-
413117	Seal Concrete Pavement Joint (Silicone)	LF		x		=	$	-
413118	Seal Pavement Joint (Asphalt Rubber)	LF		x		=	$	-
280010	Rapid Strength Concrete Base	CY		x		=	$	-
410095	Dowel Bar (Drill and Bond)	EA		x		=	$	-
390132	Hot Mix Asphalt (Type A) (0.15')	TON	107,600	x	90.00	=	$	9,684,000
390137	Rubberized Hot Mix Asphalt (Gap Graded) (0.10')	TON	71,700	x	100.00	=	$	7,170,000
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
26020X	Class 2 Aggregate Base	CY		x		=	$	-
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
374002	Asphaltic Emulsion (Fog Seal Coat)	TON		x		=	$	-
397005	Tack Coat	TON	980	x	600.00	=	$	588,000
377501	Slurry Seal	TON		x		=	$	-
3750XX	Screenings (Type XX)	TON		x		=	$	-
374492	Asphaltic Emulsion (Polymer Modified)	TON		x		=	$	-
731530	Minor Concrete (Textured Paving)	CY	3,300	x	600.00	=	$	1,980,000
731627	Minor Concrete(Curb, Sidewalk and Curb Ramp)	CY	309	x	1,000.00	=	$	309,000
731521	Minor Concrete (Sidewalk)	CY	1,397	x	600.00	=	$	838,200
731504	Minor Concrete (Curb and Gutter)	CY	1,135	x	600.00	=	$	681,000
39407X	Place Hot Mix Asphalt Dike (Type X)	LF		x		=	$	-
150771	Remove Asphalt Concrete Dike	LF		x		=	$	-
420201	Grind Existing Concrete Pavement	SQYD		x		=	$	-
600029	Remove Asphalt Concrete Surfacing	SQFT	42,950	x	2.00	=	$	85,900
153240	Remove Concrete (Curb, Gutter, and Sidewalk)	CY	2,634	x	100.00	=	$	263,400
150860	Remove Base and Surfacing	CY		x		=	$	-
390095	Replace Asphalt Concrete Surfacing	CY		x		=	$	-
15312X	Remove Concrete	LF/CY/LS		x		=	$	-
394090	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD		x		=	$	-
398200	Cold Plane Asphalt Concrete Pavement	SQYD	1,062,200	x	2.00	=	$	2,124,400
39405X	Shoulder Rumble Strip (HMA, X-In Indentations)	STA		x		=	$	-
413113	Repair Spalled Joints, Polyester Grout	SQYD		x		=	$	-
420102	Groove Existing Concrete Pavement	SQYD		x		=	$	-
390136	Minor Hot Mix Asphalt	TON		x		=	$	-
394095	Roadside Paving (Miscellaneous Areas)	SQYD		x		=	$	-
730070	Detectable Warning Surface	SQFT	1,920	x	40.00	=	$	76,800

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS	$	23,800,700

SECTION 3: DRAINAGE

Item code		Unit	Quantity		Unit Price ($)			Cost
15080X	Remove Culvert	EA/LF		x		=	$	-
150820	Modify Inlet	EA		x		=	$	-
155232	Sand Backfill	CY		x		=	$	-
15020X	Abandon Culvert	EA/LF		x		=	$	-
152430	Adjust Inlet	LF		x		=	$	-
155003	Cap Inlet	EA		x		=	$	-
510094	Structural Concrete, Drainage Inlet	CY		x		=	$	-
510501	Minor Concrete	CY		x		=	$	-
510502	Minor Concrete (Minor Structure)	CY		x		=	$	-
5105XX	Minor Concrete (Type XX)	CY		x		=	$	-
620XXX	XX" Alternative Pipe Culvert (Type X)	LF		x		=	$	-
6411XX	XX" Plastic Pipe	LF		x		=	$	-
65XXXX	XX" Reinforced Concrete Pipe (Type X)	LF		x		=	$	-
6650XX	XX" Corrugated Steel Pipe (0.XXX" Thick)	LF		x		=	$	-
68XXXX	XX" Plastic Pipe (Edge Drain)	LF		x		=	$	-
69011X	XX" Corrugated Steel Pipe Downdrain (0.XXX" Th	LF		x		=	$	-
70321X	XX" Corrugated Steel Pipe Inlet (0.XXX" Thick)	LF		x		=	$	-
70XXXX	XX" Corrugated Steel Pipe Riser (0.XXX" Thick)	LF		x		=	$	-
7050XX	XX" Steel Flared End Section	EA		x		=	$	-
703233	Grated Line Drain	LF		x		=	$	-
72XXXX	Rock Slope Protection (Type and Method)	CY/TON		x		=	$	-
72901X	Rock Slope Protection Fabric (Class X)	SQYD		x		=	$	-
721420	Concrete (Ditch Lining)	CY		x		=	$	-
721430	Concrete (Channel Lining)	CY		x		=	$	-
750001	Miscellaneous Iron and Steel	LB		x		=	$	-
152430	Additional Drainage	LS		x		=	$	-
152430	Adjust Inlet	EA	109	x	3,000.00	=	$	327,000
152440	Adjust Manhole to Grade	EA	4	x	3,000.00	=	$	12,000
							TOTAL DRAINAGE ITEMS	$ 327,000

SECTION 4: SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price ($)			Cost
080050	Progress Schedule (Critical Path Method)	LS	1	x	10,000.00	=	$	10,000
518002	Sound Wall (Masonry Block)	SQFT		x		=	$	-
510530	Minor Concrete (Wall)	CY		x		=	$	-
28484	Remove Alternative Sound Wall System	LF		x		=	$	-
070030	Lead Compliance Plan	LS	1	x	100,000.00	=	$	100,000
141120	Treated Wood Waste	LB		x		=	$	-
839774	Remove Concrete Barrier	LF		x		=	$	-
150662	Remove Metal Beam Guard Railing	LF	27,503	x	6.00	=	$	165,018
150668	Remove Flared End Section	EA	56	x	500.00	=	$	28,000
156585	Remove Crash Cushion	EA	6	x	1,500.00	=	$	9,000
800302	Chain Link Fence (Type CL-3)	LF		x		=	$	-
80XXXX	XX" Chain Link Gate (Type CL-6)	EA		x		=	$	-
832001	Midewst Guardrail System	LF	10,335	x	45.00	=	$	465,075
839218	Double Midwest Guardrail System	LF	153	x	50.00	=	$	7,650
839301	Single Thrie Beam Barrier	LF	15,630	x	50.00	=	$	781,500
839310	Double Thrie Beam Barrier	LF	1,385	x	60.00	=	$	83,100
839521	Cable Railing	LF	629	x	60.00	=	$	37,740
8395XX	Terminal System (Type CAT)	EA		x		=	$	-
839585	Alternative Flared Terminal System	EA	56	x	2,600.00	=	$	145,600
839584	Alternative In-Line Terminal System	EA	14	x	3,200.00	=	$	44,800
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x		=	$	-
839603	Crash Cushion (ADIEM)	EA	6	x	10,000.00	=	$	60,000
839481	Concrete Barrier (Type 50)	LF		x		=	$	-
839702	Concrete Barrier (Type 60)	LF		x		=	$	-
839720	Concrete Barrier (Type 732)	LF		x		=	$	-
833032	Chain Link Railing (Type 7)	LF		x		=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x		=	$	-
510060	Structural Concrete, Retaining Wall	CY		x		=	$	-
513553	Retaining Wall (Masonry Wall)	SQFT		x		=	$	-
511035	Architectural Treatment	SQFT		x		=	$	-
598001	Anti-Graffiti Coating	SQFT		x		=	$	-
203070	Rock Stain	SQFT		x		=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x		=	$	-
83954X	Transition Railing (Type WB-31)	EA	47	x	4,000.00	=	$	188,000
597601	Prepare and Stain Concrete	SQFT		x		=	$	-
839561	Rail Tensioning Assembly	EA		x		=	$	-
839581	End Anchor Assembly (Type SFT)	EA	37	x	750.00	=	$	27,750
XXXXXX	Some Item	Unit		x		=	$	-
							TOTAL SPECIALTY ITEMS	$ 2,153,300

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
	Biological Mitigation	LS		x		= $	-
130670	Temporary Reinforced Silt Fence	LF		x		= $	-
141000	Temporary Fence (Type ESA)	LF		x		= $	-

Subtotal Environmental Mitigation $ -

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
20XXXX	Highway Planting	LS		x		= $	-
20XXXX	Irrigation System	LS		x		= $	-
204099	Plant Establishment Work	LS		x		= $	-
204101	Extend Plant Establishment Work	LS		x		= $	-
20XXXX	Follow-up Landscape Project	LS		x		= $	-
150685	Remove Irrigation Facility	LS		x		= $	-
20XXXX	Maintain Existing (Irrigation or Planted Areas)	LS		x		= $	-
206400	Check and Test Existing Irrigation Facilities	LS		x		= $	-
21011X	Imported Topsoil (X)	CY/TON		x		= $	-
20XXXX	Rock Blanket, Rock Mulch, DG, Gravel Mulch	SQFT/SQYD		x		= $	-
200122	Weed Germination	SQYD		x		= $	-
208304	Water Meter	EA		x		= $	-
2087XX	XX" Conduit (Use for Irrigation x-overs)	LF		x		= $	-
XXXXX	Some Item	LF		x		= $	-

Subtotal Landscape and Irrigation $ -

5C - EROSION CONTROL

Item code		Unit	Quantity		Unit Price ($)		Cost
210010	Move In/Move Out (Erosion Control)	EA		x		= $	-
210350	Fiber Rolls	LF		x		= $	-
210360	Compost Sock	LF		x		= $	-
2102XX	Rolled Erosion Control Product (X)	SQFT		x		= $	-
21025X	Bonded Fiber Matrix	SQFT/ACRE		x		= $	-
210300	Hydromulch	SQFT		x		= $	-
210420	Straw	SQFT		x		= $	-
210430	Hydroseed	SQFT		x		= $	-
210600	Compost	SQFT		x		= $	-
210630	Incorporate Materials	SQFT		x		= $	-

Subtotal Erosion Control $ -

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)		Cost
130300	Prepare SWPPP	LS	1	x	10,000.00	= $	10,000
130200	Prepare WPCP	LS		x		= $	-
130100	Job Site Management	LS	1	x	10,000.00	= $	10,000
130330	Storm Water Annual Report	EA		x		= $	-
130310	Rain Event Action Plan (REAP)	EA		x		= $	-
130320	Storm Water Sampling and Analysis Day	EA		x		= $	-
130520	Temporary Hydraulic Mulch	SQYD		x		= $	-
130550	Temporary Hydroseed	SQYD		x		= $	-
130505	Move-In/Move-Out (Temporary Erosion Control)	EA		x		= $	-
130640	Temporary Fiber Roll	LF		x		= $	-
130900	Temporary Concrete Washout	LS	1	x	20,000.00	= $	20,000
130710	Temporary Construction Entrance	EA		x		= $	-
130610	Temporary Check Dam	LF		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
130730	Street Sweeping	LS	1	x	5,000.00	= $	5,000

Subtotal NPDES $ *45,000*

TOTAL ENVIRONMENTAL $ 45,000

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		= $	-
066596	Additional Water Pollution Control**	LS		x		= $	-
066597	Storm Water Sampling and Analysis***	LS		x		= $	-
XXXXXX	Some Item	LS		x		= $	-

Subtotal Supplemental Work for NDPS $ -

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code		Unit	Quantity		Unit Price ($)			Cost
860460	Lighting and Sign Illumination	LS		x		=	$	-
860201	Signal and Lighting	LS		x		=	$	-
860990	Closed Circuit Television System	LS		x		=	$	-
86110X	Ramp Metering System (Location X)	LS		x		=	$	-
86070X	Interconnection Conduit and Cable	LF/LS		x		=	$	-
5602XX	Furnish Sign Structure (Type X)	LB		x		=	$	-
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	LS	1	x	700,000.00	=	$	700,000
8609XX	Traffic Monitoring Station (Type X)	LS	1	x	100,000.00	=	$	100,000
15075X	Remove Sign Structure	EA/LS		x		=	$	-
151581	Reconstruct Sign Structure	EA		x		=	$	-
152641	Modify Sign Structure	EA		x		=	$	-
860090	Maintain Existing Traffic Management System Elem	LS		x		=	$	-
86XXXX	Fiber Optic Conduit System	LS		x		=	$	-
XXXXX	Some Item	LS		x		=	$	-
XXXXX	Pull Box	EA		x		=	$	-
XXXXX	Signal Pole	EA		x		=	$	-
XXXXX	Count-Down Pedestrian Head	EA	74	x	900.00	=	$	66,600
152454	Adjust Pull Box	EA	178	x	600.00	=	$	106,800
XXXXX	Relocate Signal Pole	EA	36	x	5,000.00	=	$	180,000
XXXXX	Relocate Utility Pole	EA	49	x	2,000.00	=	$	98,000
XXXXX	APS Push Button Modification	EA	74	x	1,200.00	=	$	88,800

Subtotal Traffic Electrical $ *1,340,200*

6B - Traffic Signing and Striping

Item code		Unit	Quantity		Unit Price ($)			Cost
820840	Roadside Sign - One Post	EA		x		=	$	-
820850	Roadside Sign - Two Post	EA		x		=	$	-
5602XX	Furnish Sign	SQFT		x		=	$	-
568016	Install Sign Panel on Existing Frame	SQFT		x		=	$	-
150711	Remove Painted Traffic Stripe	LF		x		=	$	-
141101	Remove Yellow Painted Traffic Stripe (Hazardous V	LF	175,000	x	1.00	=	$	175,000
150712	Remove Painted Pavement Marking	SQFT		x		=	$	-
820250	Remove Roadside Sign	EA		x		=	$	-
820530	Reset Roadside Sign	EA	68	x	500.00	=	$	34,000
820610	Relocate Roadside Sign	EA		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
840502	Thermoplastic Traffic Stripe (Enhanced Wet Night V	LF		x		=	$	-
846012	Thermoplastic Crosswalk and Pavement Marking (E	SQFT		x		=	$	-
120090	Construction Area Signs	LS	1	x	10,000.00	=	$	10,000
84XXXX	Permanent Pavement Delineation	LS	1	x	100,000.00	=	$	100,000

Subtotal Traffic Signing and Striping $ *319,000*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS	5	x	$ 2,000	=	$	10,000

Subtotal Traffic Management Plan $ *10,000*

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	LS	1	x	100,000.00	=	$	100,000
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	LS	1	x	50,000.00	=	$	50,000
120100	Traffic Control System	LS	1	x	50,000.00	=	$	50,000
129110	Temporary Crash Cushion	LS	1	x	50,000.00	=	$	50,000
129000	Temporary Railing (Type K)	LF	15,900	x	15.00	=	$	238,500
120149	Temporary Pavement Marking (Paint)	LS	1	x	10,000.00	=	$	10,000
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *498,500*

TOTAL TRAFFIC ITEMS $ **2,167,700**

SECTION 7: DETOURS

Includes constructing, maintaining, and removal

Item code		Unit	Quantity		Unit Price ($)		Cost
190101	Roadway Excavation	CY		x		= $	-
19801X	Imported Borrow	CY/TON		x		= $	-
390132	Hot Mix Asphalt (Type A)	TON		x		= $	-
26020X	Class 2 Aggregate Base	TON/CY		x		= $	-
250401	Class 4 Aggregate Subbase	CY		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
129000	Temporary Railing (Type K)	LF		x		= $	-
128601	Temporary Signal System	LS		x		= $	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		= $	-
80010X	Temporary Fence (Type X)	LF		x		= $	-
XXXXXX	Some Item	Unit		x		= $	-

TOTAL DETOURS $ -

SUBTOTAL SECTIONS 1 through 7 $ 28,593,700

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items					
ADA Items			1.0%	$	285,937
8B - Bike Path Items					
Bike Path Items			1.0%	$	285,937
8C - Other Minor Items					
Other Minor Items			8.0%	$	2,287,496
Total of Section 1-7	$	28,593,700	x 1.0%	= $	285,937

TOTAL MINOR ITEMS $ **286,000**

SECTIONS 9: MOBILIZATION

Item code							
999990	Total Section 1-8	$	28,879,700	x	5%	= $	1,443,985

TOTAL MOBILIZATION $ **1,444,000**

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)		Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		= $	-
066094	Value Analysis	LS		x		= $	-
066070	Maintain Traffic	LS		x		= $	-
066919	Dispute Resolution Board	LS		x		= $	-
066921	Dispute Resolution Advisor	LS		x		= $	-
066015	Federal Trainee Program	LS		x		= $	-
066610	Partnering	LS		x		= $	-
066204	Remove Rock and Debris	LS		x		= $	-
066222	Locate Existing Crossover	LS		x		= $	-
XXXXXX	Some Item	Unit		x		= $	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8 $ 28,879,700 1% = $ 288,797

TOTAL SUPPLEMENTAL WORK $ **288,800**

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS	1	x	10,000.00	=	$10,000
066901	Water Expenses	LS		x		=	$0
8609XX	Traffic Monitoring Station (X)	LS		x		=	$0
066841	Traffic Controller Assembly	LS		x		=	$0
066840	Traffic Signal Controller Assembly	LS		x		=	$0
066062	COZEEP Contract	LS		x		=	$0
066838	Reflective Numbers and Edge Sealer	LS		x		=	$0
066065	Tow Truck Service Patrol	LS		x		=	$0
066916	Annual Construction General Permit Fee	LS		x		=	$0
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8		$ 28,879,700		1%	= $	288,797

TOTAL STATE FURNISHED	$298,800

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization $28,879,700 (used to calculate TRO)

Total Construction Cost (excluding TRO and Contingency) $30,911,300 (used to check if project is greater than $5 million excluding contingency)

Estiamted Time-Releated Overhead (TRO) Percentage (0% to 10%) = **3%**

Item code		Unit	Quantity		Unit Price ($)		Cost
070018	Time-Related Overhead	WD	100	X	$8,664	=	$866,400

TOTAL TIME-RELATED OVERHEAD	$866,400

Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-11	$	31,488,900	x	**15%**	=	$4,723,335

TOTAL CONTINGENCY	$4,723,400

EA: 03-0H480 PID: 0315000198

II. STRUCTURE ITEMS

DATE OF ESTIMATE	00/00/00		00/00/00		00/00/00	
Name	xxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxx	
Bridge Number	57-XXX		57-XXX		57-XXX	
Structure Type	xxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxx	
Width (Feet) [out to out]	0	LF	0	LF	0	LF
Total Length (Feet)	0	LF	0	LF	0	LF
Total Area (Square Feet)	0	SQFT	0	SQFT	0	SQFT
Structure Depth (Feet)	0	LF	0	LF	0	LF
Footing Type (pile or spread)	xxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxx	
Cost Per Square Foot	$0		$0		$0	
COST OF EACH	**$0**		**$0**		**$0**	

DATE OF ESTIMATE	00/00/00		00/00/00		00/00/00	
Name	xxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxx	
Bridge Number	57-XXX		57-XXX		57-XXX	
Structure Type	xxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxx	
Width (Feet) [out to out]	0	LF	0	LF	0	LF
Total Length (Feet)	0	LF	0	LF	0	LF
Total Area (Square Feet)	0	SQFT	0	SQFT	0	SQFT
Structure Depth (Feet)	0	LF	0	LF	0	LF
Footing Type (pile or spread)	Pile		Pile		Pile	
Cost Per Square Foot	$0		$0		$0	
COST OF EACH	**$0**		**$0**		**$0**	

TOTAL COST OF BRIDGES		**$0**
TOTAL COST OF BUILDINGS		**$0**
Structures Mobilization Percentage	10%	**$0**

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Structures Contingency Percentage	10%	**$0**
TOTAL COST OF STRUCTURES		**$0**

Estimate Prepared By: _____ _____

XXXXXXXXXXXXXXXX ------ Division of Structures — Date

EA: 03-0H480 PID: 0315000198

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1)	Acquisition, including Excess Land Purchases, Damages & Goodwill, Fees		$	0
	A2)	SB-1210		$	0
B)	Acquisition of Offsite Mitigation			$	0
C)	C1)	Utility Relocation (State Share)		$	0
	C2)	Potholing (Design Phase)		$	0
D)	Railroad Acquisition			$	0
E)	Clearance / Demolition			$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)			$	0
G)	Title and Escrow			$	0
H)	Environmental Review			$	0
I)	Condemnation Settlements		0%	$	0
J)	Design Appreciation Factor		0%	$	0
K)	Utility Relocation (Construction Cost)			$	0

L)	**TOTAL RIGHT OF WAY ESTIMATE**	**$0**
M)	**TOTAL R/W ESTIMATE: Escalated**	
N)	**RIGHT OF WAY SUPPORT**	**$0**

Support Cost Estimate Prepared By _____ Project Coordinator[1] _____ Phone

Utility Estimate Prepared By _____ Utiliy Coordinator[2] _____ Phone

R/W Acquistion Estimate Prepared By _____ Right of Way Estimator[3] _____ Phone

Note: Items G & H applied to items A + B

[1] When estimate has Support Costs only [2] When estimate has Utility Relocation [3] When R/W Acquisition is required

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

EA: 03-0H480 PID: 0315000198

IV. SUPPORT COST ESTIMATE SUMMARY

Note: Use PRSM project data.

Total by FY		Escalated Support Cost for Estimate To Completion (ETC)				
		PA&ED	PS&E	RW	CON	Total $
< 2010	Expended					
	ETC					
2011	Expended					
	ETC					
2012	Expended					
	ETC					
2013	Expended					
	ETC					
2014	Expended					
	ETC					
2015	Expended					
	ETC					
2016	Expended					
	ETC					
2017	Expended					
	ETC					
2018	Expended					
	ETC					
2019	Expended					
	ETC					
2020	Expended					
	ETC					
2021	Expended					
	ETC					
2022	Expended					
	ETC					
2023	Expended					
	ETC					
2024	Expended					
	ETC					
2025 >	Expended					
	ETC					
EAC (Expended + ETC)		$0	$0	$0	$0	$0
Approved Budget (PRSM)						
Difference (Budget - EAC)		$0	$0	$0	$0	$0
Support Ratio (EAC / Cap Cost)		0.0%	0.0%	0.0%	0.0%	0.0%

Total Capital Cost:	**$36,502,000**
Total Capital Outlay Support Cost:	**$0**
Overall Percent Support Cost:	**0.00%**

PRSM workplan hours/costs verified against approved MWA:

Office Chief - _____ Date _____

Approved by:

Project Control - _____ Date _____

Attachment H. Environmental Document (Categorical Exemption/Categorical Exemption)

CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM

03-SAC-99	0.0/1.6 and 11.9/21.5	03-0H480	EFIS: 03-1500-0198
Dist.-Co.-Rte. (or Local Agency)	P.M./P.M.	E.A/Project No.	Federal-Aid Project No. (Local Project)/Project No.

PROJECT DESCRIPTION: (Briefly describe project including need, purpose, location, limits, right-of-way requirements, and activities involved in this box. *Use Continuation Sheet, if necessary.)*

Need: The Pavement Condition Survey for this section of roadway has an overall PCS/PMS priority number 3, which characterized it as having minor pavement distress and acceptable ride.
Purpose: To preserve and extend the life of the existing pavement and improve ride quality.
Description: This project proposes to improve SR 99 at PM 0.0/1.6 and 11.9/21.5 in Sacramento County. Scope of work includes:

- Install and remove temporary construction area signs.
- Cold plane existing pavement to remove existing gap or open-graded asphalt.
- Dig-out and repair locations of severe failure in the shoulder and traveled way.
- Seal cracks wider the 0.25 inches.
- Overlay rubberized hot mix asphalt.
- Remove and replace existing pavement delineation.
- Upgrade pedestrian facilities at ramp termini to meet current ADA standards.
- Repair or replace bridge approach slabs on main line (not overcrossing).
- Reset or upgrade metal beam guardrail.
- Replace loop detectors and shoulder rumble strips.

Pot holing may be required for utility verification at the curb ramp improvements. Major excavation, excess soil, utility relocation, and/or R/W Acquisition is not anticipated.

CEQA COMPLIANCE *(for State Projects only)*

Based on an examination of this proposal and supporting information, the following statements are true and exceptions do not apply (See 14 CCR 15300 et seq.):

- If this project falls within exempt class 3, 4, 5, 6 or 11, it does not impact an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law.
- There will not be a significant cumulative effect by this project and successive projects of the same type in the same place, over time.
- There is not a reasonable possibility that the project will have a significant effect on the environment due to unusual circumstances.
- This project does not damage a scenic resource within an officially designated state scenic highway.
- This project is not located on a site included on any list compiled pursuant to Govt. Code § 65962.5 ("Cortese List").
- This project does not cause a substantial adverse change in the significance of a historical resource.

CALTRANS CEQA DETERMINATION (Check one)

☐ **Not Applicable – Caltrans is not the CEQA Lead Agency**

☐ **Not Applicable – Caltrans has prepared an Initial Study or Environmental Impact Report under CEQA**

☐ **Exempt by Statute.** (PRC 21080[b]; 14 CCR 15260 et seq.)
Based on an examination of this proposal, supporting information, and the above statements, the project is:

☒ **Categorically Exempt. Class 1.** (PRC 21084; 14 CCR 15300 et seq.)

☐ **Categorically Exempt. General Rule exemption.** [This project does not fall within an exempt class, but it can be seen with certainty that there is no possibility that the activity may have a significant effect on the environment (CCR 15061[b][3].)

Kelly McNally		Jess Avila	
Print Name: Senior Environmental Planner or Environmental Branch Chief		Print Name: Project Manager	
Signature	Date: 4-28-17	Signature	Date: 4/28/17

NEPA COMPLIANCE

In accordance with 23 CFR 771.117, and based on an examination of this proposal and supporting information, the State has determined that this project:

- does not individually or cumulatively have a significant impact on the environment as defined by NEPA, and is excluded from the requirements to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS), and
- has considered unusual circumstances pursuant to 23 CFR 771.117(b).

CALTRANS NEPA DETERMINATION (Check one)

☒ **23 USC 326:** The State has determined that this project has no significant impacts on the environment as defined by NEPA, and that there are no unusual circumstances as described in 23 CFR 771.117(b). As such, the project is categorically excluded from the requirements to prepare an EA or EIS under the National Environmental Policy Act. The State has been assigned, and hereby certifies that it has carried out the responsibility to make this determination pursuant to Chapter 3 of Title 23, United States Code, Section 326 and a Memorandum of Understanding dated May 31, 2016, executed between the FHWA and the State. The State has determined that the project is a Categorical Exclusion under:

- ☒ **23 CFR 771.117(c): activity (c)(26)**
- ☐ **23 CFR 771.117(d): activity (d)(___)**
- ☐ **Activity ___ listed in Appendix A of the MOU between FHWA and the State**

☐ **23 USC 327:** Based on an examination of this proposal and supporting information, the State has determined that the project is a Categorical Exclusion under 23 USC 327.

Kelly McNally		Jess Avila	
Print Name: Senior Environmental Planner or Environmental Branch Chief		Print Name: Project Manager/DLA Engineer	
Signature	Date: 4-28-17	Signature	Date: 4/28/17

Date of Categorical Exclusion Checklist completion: 04/24/2017

Date of ECR or equivalent : 04/28/2017

CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM
Continuation Sheet

Continued from page 1

Environmental Commitment Record

Hazardous Waste/Materials:

- Aerially Deposited Lead (ADL)
  - Use *SSP 14-11.09A.*
- Traffic Stripe – Lead/Chromium Based Paint
  - Use *SSP 36-4.*
  - Use *SSP 14-11.12*
  - The Contractor shall properly manage removed stripe and pavement. The Contractor must also implement a project-specific *Lead Compliance Plan* prepared by a Certified Industrial Hygienist (CIH) and required by Cal/OSHA.
- Treated Wood Waste (TWW)
  - Use *SSP 14-11.14*

Noise:

- Use *CSS Section 14-8.02 Noise Control.*

Cultural:

- Disposal, Staging, and Borrowing Site (DSBs)
  - If DSBs are identified within Caltrans R/W, outside the current project study limit (see below), they must be cleared by Caltrans Professionally Qualified Staff (PQS).
  - Any DSBs outside Caltrans R/W, must be cleared for cultural resources. The Contractor shall provide to Caltrans environmental documentations prepared by qualified environmental specialists per:
    - *Design Information Bulletin Number 85, Guidance for the Construction of Material Disposal, Staging, and Borrow Sites, Original signed by Mark Leja, Division Chief, Division of Design, May 15, 2007* and
    - *Caltrans Construction Manual (August 2006): Section 7-103 Protection of Environmental Resources.*

Water Quality:

- Permits and Guidelines
  - Adhere to the conditions of the *Caltrans Statewide NPDES MS4 Permit No. CAS000003 (Order No. 2012-0011-DWQ)* and all associated adopted amendments.
    NOTE: This *Permit No. CAS000003* is expected to be superseded by the draft *Tentative Order No. 201X-XXX-DWQ*, which is undergoing another revision. Adoption of the new *Statewide Permit* is scheduled for some time in the near future, and may entail additional requirements upon adoption.
  - Adhere to the compliance requirements of the *NPDES Construction General Permit CAS No. 000002 (Order No. 2009-0009-DWQ) for General Construction Activities (CGP)* and its amendments, *2010-0014 DWQ* and *2012-0006-DWQ.*
    NOTE: Under certain conditions, a *rainfall erosivity value* can be calculated to determine if a project qualifies for a waiver and exemption from CGP requirements. In which case, a Storm Water Pollution Prevention Plan (SWPPP) would not be necessary and the project could be covered under a Water Pollution Control Program (WPCP).
    Disturbed Soil Area (DSA) shall include all temporary equipment and material storage areas on State property unless a stabilization method has been implemented, reviewed, and approved by Caltrans NPDES or Storm Water staff.
  - Project work within PM limits 11.9-21.5 are subjected to Sacramento County's *Phase I MS4 (Order No. R5-2008-0142).*
  - Use *CSS Section 13.* A concerted effort and focus shall be placed on:
    - *CSS Section 13-4.*
    - *CSS Section 13-9.02C.*
    - *CSS Section 13-9.02D.*
- BMPs
  - Temporary Construction Site BMPs shall be selected to protect water bodies within or near the project limits from potential water pollution runoff from construction activities.
    - The appropriate and approved Temporary Construction Site BMPs that address the effective implementation, placement, handling, storage, use and disposal practice of all BMPs used during construction operations and field activities for the duration of the project shall be included:
      - As part of the Contractor-prepared SWPPP or
      - As part of the Contractor-prepared WPCP.
    - The Contractor shall implemented the above Temporary Construction Site BMPs.
  - Consult Caltrans' *Storm Water Management Plan (SWMP)*, the *Project Planning and Design Guide (PPDG) Section 4*, and also the *Evaluation Documentation Form (EDF)* in determining if the proposed project requires to consider Permanent Treatment BMPs. The BMPs shall be incorporated into PS&E and Line Items may be needed.
  - Prior to the start of construction, existing drainage facilities should be identified and protected by the application of appropriate Temporary Construction Site BMPs.
  - If and where applicable, shoulder backing areas should be stabilized either by Temporary Construction Site BMPs or rolled and compacted in place by the end of each day and also prior to the onset of precipitation.

Air Quality:

- Use *CSS Section 10-5 Dust Control.*
- Use *CSS Section 14-9 Air Quality.*
- Use *CSS Section 18 Dust Palliative.*

(End of ECR)

* Unless stated otherwise; *CSS* refers to Caltrans Standard Specifications 2015,
SSP refers to Caltrans Special Specification Provisions 2015, and
nSSP refers to Non-Standard Special Provision.

Attachment I. Storm Water Data Report

Dist-County-Route:03-SAC-99
Post Mile Limits:0.0/1.6 & 11.9/21.5
Project Type:CAPM
Project ID (EA):03-0H4800
Program Identification:0315000198
Phase: ☐ PID ☒ PA/ED ☐ PS&E

Regional Water Quality Control Board(s): Central Valley

1.	Does the project disturb 5 or more acres of soil?	Yes ☐	No ☒
2.	Does the project disturb more than 1 acre of soil and not qualify for the Rainfall Erosivity Waiver?	Yes ☐	No ☒
3.	Is the project required to implement Treatment BMPs?	Yes ☐	No ☒
4.	Does the project impact existing Treatment BMPs?	Yes ☐	No ☒

If the answer to any of the preceding questions is "Yes", prepare a Long Form – Stormwater Data Report. Unless otherwise agreed upon by the District/Regional Design Stormwater Coordinator.

* Based on the interchange with the greatest area.

Total Disturbed Soil Area: 0.77 Acres* New Impervious Surface: 0.77 Acres*
Estimated Const. Start Date: 12/01/18 Estimated Const. Completion Date: 12/01/19
Risk Level: RL 1 ☐ RL 2 ☐ RL 3 ☐ Not Applicable ☒

This Short Form – Stormwater Data Report has been prepared under the direction of the following Licensed Person. The Licensed Person attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based. Professional Engineer or Landscape Architect stamp required at PS&E.

Cody L. Milligan 05-01-2017
[Cody L. Milligan], Registered Project Engineer/Landscape Architect *Date*

I have reviewed the stormwater quality design issues and find this report to be complete, current and accurate:

[Stamp Required at PS&E only]

[illegible] 5/2/17
[Wesley Fabel], District/Regional Design SW Coordinator or Designee *Date*

Attachment J. Risk Registrar

EA 03-0H480 03-0H480 SAC 99 RHMA Overlay - ACTIVE RISK REGISTER

Risk 001 TMP RISK RBS: Design Owner: Nesar Formoli Updated: 6-23-2015

Description: As a result of ramp closures, traffic disruption may occur, which would lead to public inconvenience and potential construction delays.

Status: Risk will be managed through the PA&ED, PS&E and Construction phases.

Response Options: Consider early public outreach and design consideration to mitigate public inconvenience and construction delays.

Impacts:

	Cost Impact				Delay Impact				Risk Zone
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con	

Assessment Notes:

Risk 002 Landscape Risk RBS: Design Owner: Nesar Formoli Updated: 6-23-2015

Description: As a result of no Landscape Architecture Assessment request, additional landscape architecture scope may occur for ADA work, which would lead to additional support and capital cost increase.

Status:

Response Options: Request LAAS during PA&ED to assess their scope, if any.

Impacts:

	Cost Impact				Delay Impact				Risk Zone
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con	

Assessment Notes:

Risk 003 Construction Risk-Contractorâ€™s Productivity/Unexperienced Contrac RBS: Construction Owner: Kim Noonan Updated: 6-02-2015

Description: Contractorâ€™s Productivity/Unexperienced Contractor

Status: If productivity is slow, project time will increase which will increase construction resources. Additional resources may be needed.

Response Options: Construction will keep track of contractorâ€™s productivity and schedule and notify contractor if they are behind schedule.

Impacts:

	Cost Impact				Delay Impact				Risk Zone
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con	

Assessment Notes:

Risk 004 R/W Risk RBS: R/W Owner: Wendy Ratajczak Updated: 6-25-2015

Description: As a result of unknown utilities near areas of work, utility relocations cost increases may occur, which would lead to an increase in right of way capital and support. If utility conflicts are found during potholing this would heavily impact the project schedule.

Status: If necessary, utilities will be relocated and schedule adjusted.

Response Options: Locate utilities early in PA&ED and determine if relocation is necessary.

Impacts:

	Cost Impact		Delay Impact		Risk Zone			
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con
Low	Low	Low	Low	Low	L	L	L	L

Assessment Notes:

Risk 005 Storm Water Risk RBS: Design Owner: Wesley Faubel Updated: 6-23-2015

Description: As a result of simple description of RMHA, unanticipated storm water issues may occur, which would lead to additional support and capital budget increases.

Status:

Response Options: Design to develop a more detailed project scope to determine any storm water issues.

Impacts:

	Cost Impact		Delay Impact		Risk Zone			
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con

Assessment Notes:

Risk 006 Electrical Risk RBS: Traffic Ops Owner: Nesar Formoli Updated: 6-30-2015

Description: As a result of work near ADA ramps work, additional unknown amount of electrical work may occur, which would lead to additional support and capital budget increases.

Status: Support and capital cost estimate provides for some electrical work.

Response Options: Investigate ADA scope of work and coordinate any electrical work early in PA&ED.

Impacts:

	Cost Impact		Delay Impact		Risk Zone			
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con

Assessment Notes:

Risk 007 Planning Risk RBS: Design Owner: Nesar Formoli Updated: 6-23-2015

Description: As a result of future system projects in the area, duplication of work scope may occur, which would lead to scope and cost changes on the project. Status:

Response Options: Coordinate other system work within the project limits.

Impacts:

	Cost Impact				Delay Impact				Risk Zone
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con	

Assessment Notes:

Risk 008 Project Management Risk RBS: PPM Owner: Jess Avila Updated: 6-17-2015

Description: As a result of completing the PID in a short duration, support and capital budgets may be inaccurate, which would lead to adjusting the support and capital budget through the PCR process. Status:

Response Options: Schedule PA&ED kick-off meeting and review project scope to assess any significant scope or schedule changes that may affect the budget.

Impacts:

	Cost Impact				Delay Impact				Risk Zone
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con	

Assessment Notes:

Risk 009 ADA Risks RBS: Design Owner: Nesar Formoli Updated: 6-23-2015

Description: As a result of ADA work, additional scope adjacent to ramps may occur, which would lead to additional support and capital budget increases. Status:

Response Options: Request survey work at ADA locations early in project development for better assessment of ADA work.

Impacts:

	Cost Impact				Delay Impact				Risk Zone
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con	

Assessment Notes:

Risk 010 Construction Risk-Existing Conditions RBS: Construction Owner: Kim Noonan Updated: 6-02-2015

Description: Existing Conditions Status: Depending upon the scope of the change, additional money may be needed or elimination of planned work will be required in order to stay within budget.

Response Options: If existing conditions are not as shown in the contract plans, change orders will be needed.

Impacts:

	Cost Impact				Delay Impact				Risk Zone
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con	

Assessment Notes:

Risk 011 Construction Risk-Grinding/Paving Same Shift RBS: Construction Owner: Kim Noonan Updated: 6-02-2015

Description: Grinding/Paving Same Shift Status: Estimated costs and working days will increase which will also result in increased construction resources.

Response Options: If grinding and paving is required to be performed in the same shift, production will be impacted and item costs will increase significantly.

Impacts:

	Cost Impact				Delay Impact				Risk Zone
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con	

Assessment Notes:

Risk 012 Construction Risk-Grinding/Paving Different Shifts RBS: Construction Owner: Kim Noonan Updated: 6-02-2015

Description: Grinding/Paving Different Shifts Status: During a similar type project on Sac 99, excessive windshield claims in the millions were paid due to the contract specifications.

Response Options: If grinding can be performed followed by paving several days later, profile grinding must be specified and risks transferred to the contractor.

Impacts:

	Cost Impact				Delay Impact				Risk Zone
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con	

Assessment Notes:

Risk 013 Disjointed scope of work RBS: Construction Owner: Nesar Formoli Updated: 6-30-2015

Description: As a result of necessary rehabilitation work 10 miles from main project limits, traffic management and rehabilitation work may be inefficient, which would lead to higher bids on the project. Status:

Response Options: Produce a quality set of plans taking into account disjointed scope of work.

Impacts:

	Cost Impact		Delay Impact		Risk Zone			
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con

Assessment Notes:

Risk 018 MASH Guidelines RBS: Design Owner: Sandy Wong Updated: 4-17-2017

Description: As a result of no definite MASH guidelines, 03-0H480 may be re-scoped to include concrete barrier improvements per MASH, which would lead to additional support and capital budget increase. Status:

Response Options:

Impacts:

	Cost Impact		Delay Impact		Risk Zone			
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con

Assessment Notes:

Risk 019 ADA curb ramp improvements RBS: Design Owner: Sandy Wong Updated: 4-17-2017

Description: As a result of ADA curb ramp improvements, additional unknown amount of electrical and utility work may occur, which would lead to additional support and capital budget increases. Status:

Response Options:

Impacts:

	Cost Impact		Delay Impact		Risk Zone			
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con

Assessment Notes:

Risk 020	Extending wearing course	RBS: Design	Owner: Sandy Wong	Updated: 4-17-2017

Description: As a result of extending wearing course ES to ES instead of existing that stops 2-4â€™ beyond ETW, outside concrete height may be compromised, which would lead to concrete barrier height below minimum safety concerns. Status:

Response Options:

Impacts:

	Cost Impact		Delay Impact		Risk Zone			
Probability	Cap	Sup	Dev	Con	Cap	Sup	Dev	Con

Assessment Notes:

Attachment K. Programming Sheet

PROGRAMMING SHEET

04/25/2017

EFIS ID: 0315000198 EA:03-0H480 County: SAC Route: 099 PostMile: 0.00/0.00

Project Manager: AVILA, JESUS S PM Assistant: DAY JR, JAMES R Project Nickname: RHMA Overlay
Project Description - Long: In Sac County on SR 99 near Galt from SJ County line to Simmerhorn Rd OC and from .7 miles south of Elk Grove Blvd OC to MLK Blvd OC
Work Description - Long: RHMA Overlay
PPNO: 6924 Program: shopp RTP: No Funding Candidate: No PROGRAM YR: 2019 Working Days: 120
Open for Time: Yes Subprogram: Pavement Preservation CT Status: APL RMP: RMP Date:
10 Yr SHOPP: Yes AADD: Yes Dist Category: SHOPP MAJOR FED Aid Eligible: PE Only (G13)

MS	MS Description	MS Date	
M000	ID NEED	04/04/2015	(A)
M010	APPROVE PID	06/30/2015	(A)
M015	PROG PROJ	04/01/2016	(A)
M020	BEGIN ENVIRO	09/01/2016	(A)
M040	BEGIN PROJ	07/12/2016	(A)
M200	PA & ED	06/01/2017	(T)
M224	R/W REQTS	09/01/2017	(T)
M225	REGULAR R/W	12/01/2017	(T)
M310	DESIGN SAFETY REVIEW	05/11/2018	(T)
M377	PS&E TO DOE	06/11/2018	(T)
M380	PROJ PS&E	07/01/2018	(T)
M410	R/W CERT	08/01/2018	(T)
M460	RTL	08/06/2018	(T)
M470	FUND ALLOCATION	08/15/2018	(T)
M480	HQ ADVERT	09/03/2018	(T)
M490	BIDS OPEN	10/03/2018	(T)
M495	AWARD	10/31/2018	(T)
M500	APPROVE CONTRACT	12/01/2018	(T)
M600	CONTRACT ACCEPT	12/01/2019	(T)
M700	FINAL REPORT	12/01/2020	(T)
M800	END PROJ EXP	12/01/2021	(T)
M900	FINAL PROJ CLOSEOUT	12/01/2022	(T)

Capital Cost Estimates

	Amount $k	EST Date
Roadway	38,760	06/29/15
Structures	0	
Const Total	38,760	
ROW	0	01/07/16
Total	38,760	

Env Doc: CE (CEQA), CE (NEPA),

Funding Info ($k)

Fund Source	PA&ED	PS&E	ROW	CON	ROW Cap	CON CAP
2010201.121	850	1,700	80	0	0	0
2020201.121	0	0	0	0	22	0
4050201.121	0	0	0	0	0	0
Grand Total:	850	1,700	80	0	22	0

Capital Cost Estimates

	2019
CC Escalation %:	3.50%
CC Escalated $:	41,473
ROW CAPITAL:	0
TOTAL:	41,473

PROJECT SUPPORT COSTS

Phase / Escalation Rate	PRIOR ACT $	2017 ETC (3.00%)	2018 (3.00%)	2019 (3.00%)	2020 (3.00%)	2021 (3.00%)	Future (3.00%)	Total	Sup/Cap
0	303	696	0	0	0	0	0	999	2.41%
1	0	112	1,733	98	0	0	0	1,943	4.68%
2	0	0	38	18	16	16	7	96	0.23%
3	0	0	0	2,266	1,842	147	20	4,275	10.31%
						TOTAL SUPPORT COSTS:		7,313	17.63%
						TOTAL PROJECT COSTS:		48,786	

PROJECT SUPPORT PYs

Division		PRIOR ACT PYs	2017 ETC PYs	2018 ETC PYs	2019 ETC PYs	2020 ETC PYs	2021 ETC PYs	Future ETC PYs	Total PYs
		0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	TOTALS:	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02
03	ESR	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.03
03	ADMN	0.00	0.00	0.00	0.02	0.04	0.04	0.02	0.11
03	CONS	0.03	0.04	0.09	5.13	4.12	0.33	0.01	9.75
03	ENVM	0.09	0.25	0.08	0.02	0.01	0.00	0.00	0.45
03	ESRV	0.02	0.11	0.29	0.08	0.02	0.01	0.00	0.52
03	PPM	0.04	0.41	0.68	0.78	0.57	0.11	0.04	2.63
03	PRJD	0.16	0.32	2.27	0.12	0.09	0.02	0.00	2.98
03	RWLS	0.03	0.01	0.12	0.03	0.02	0.01	0.00	0.23
03	SURV	0.04	1.27	0.85	2.09	1.52	0.06	0.02	5.85
03	TO11	0.57	0.41	0.00	0.00	0.00	0.00	0.00	0.99
03	TPLN	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
03	TROP	0.17	0.35	2.32	0.29	0.21	0.00	0.00	3.34
03	TOTALS:	1.17	3.18	6.70	8.56	6.60	0.58	0.09	26.89
59	GS	0.00	0.04	0.09	0.03	0.02	0.00	0.00	0.18
59	METS	0.00	0.01	0.04	0.25	0.18	0.01	0.00	0.50
59	OE	0.00	0.00	0.01	0.15	0.00	0.00	0.00	0.17
59	PPM	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.04
59	SP&I	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	TOTALS:	0.02	0.06	0.15	0.43	0.21	0.01	0.00	0.88
PROJECT TOTALS:		1.21	3.24	6.85	8.99	6.81	0.60	0.10	27.80

Comments:

Attachment L. Landscape Architecture Assessment Request (LAAS)

(1) NORTH REGION
LANDSCAPE ARCHITECTURE ASSESSMENT SHEET
03-LAND-0002 (Rev. x/xx)

TO: Sandy Wong **FROM: Jane Donohoe** **Unit/Senior: 0381/ Jeff Pietrzak** **Project Manager: Jess Avila**	**DISTRICT: 03** **DATE:01/18/17** **EA: 03-0H480** **ID: 0315000198**	**CO:SAC**	**RTE:99**	**PM: 0.0/1.6-11.9/21.5**

CONTRACT SEPARATION:

☒ Roadside work as part of roadway work EA

☐ Roadside work for roadway project to follow under separate EA

PROJECT: SAC 99 RHMA Overlay

FUNDING SOURCE: SHOPP

PROJECT MILESTONE: ☐ PID ☒ PA&ED ☐ PS&E

PROJECT COST: $39 million

DISTRICT (x1000) $ **STRUCTURES (x1000) $**

PROJECT DESCRIPTION

CT SHOPP CAPM to preserve and extend the life of the existing pavement and improve the ride quality of a segment of State Route 99, and all on/ off ramps within the project limits. Also upgrade roadway infrastructure to current design standards.

SCENIC HIGHWAY STATUS ☐ Officially Designated ☐ Eligible ☐ Not Designated

HIGHWAY PLANTING/IRRIGATION BACKGROUND INFORMATION

LANDSCAPE FREEWAY STATUS	☒ Yes	☐ No	
• **SAC 99, PM 0.59/0.99, 1.32/1.86,13.70/ 14.00, 17.02/17.32, &17.46/ 24.35= 7.89 Acres**			
WARRANTED HIGHWAY PLANTING	☐ Yes	☒ No	
(E) H2O & POWER AVAILABLE	☒ Yes	☐ No	Where: _____
(E) IRRIGATION IMPACTED	☐ Yes	☒ No	Where: _____
COOP. MAINT. AGREEMENTS	☐ Yes	☒ No	
ADJ. TO OUTDOOR ADVERTISING	☐ Yes	☒ No	

AREA (Ft²/ACRE) FOR HIGHWAY PLANTING: 8 Acres

EROSION CONTROL BACKGROUND INFORMATION

SOIL DISTURBANCE	☒ Yes	☐ No
• **PM 11.9 to 19.6; Estimated 10' beyond shoulder backing; 7.7 on either side = 15.4 miles of potential disturbed soils; 814,000 SQFT**		
• **PM 19.6 to 21.5; Estimated 10' beyond shoulder backing;1.9 miles; 100,400 SQFT**		
Total disturbed areas estimated 914,400 SQFT		
CONCENTRATED FLOW AREAS	☐ Yes	☒ No
SLOPE LOCATIONS	☒ Yes	☐ No
SLOPES > 2:1	☒ Yes	☐ No

AREA (Ft²/ACRE) FOR EROSION CONTROL: 21 Acres

MITIGATION BACKGROUND INFORMATION

PROJECT BIOLOGIST Contact Date: _____

BIOLOGICAL REVEG. REQUIRED ☐ Yes ☐ No Applicable Permits: _____

VISUAL IMPACT MIT. REQUIRED ☐ Yes ☐ No

UNIT TASKED w/ BIO. REVEG. ☐ Landscape Architecture ☐ Stewardship

PLANT COUNT FOR MITIGATION PLANTING:

ROADSIDE MAINTENANCE SAFETY NEEDS

☒ Paving of Extended Gore Areas

☐ Paving of Narrow Areas

☐ Maintenance Vehicle Pullouts (MVPs)

☐ Other _____

http://www.dot.ca.gov/hq/LandArch/policy/pdf/design_for_safety.pdf

(1) NORTH REGION
LANDSCAPE ARCHITECTURE ASSESSMENT SHEET
03-LAND-0002 (Rev. x/xx)

ROADSIDE VEGETATION MANAGEMENT TREATMENT NEEDS

- ☒ Guardrails and Signs
  - Under guardrail treatment (Assumes 7' width (per the standard plan)
    New:HMA or PCC
    - Vegetation control (Asphalt Composite) $42/LF
    - Vegetation control (Minor Concrete) $70/LF
- ☐ Side Slopes/Embankment Slopes

CONTEXT SENSITIVITY

- ☐ It is determined that the project may involve consideration of community and local involvement.
- ☐ No foreseen issues with community and local involvement

http://www.dot.ca.gov/hq/oppd/context/index.htm

CONSIDER ADDITIONAL AESTHETIC TREATMENT FOR:

- ☐ Sound Wall
- ☐ Retaining Wall
- ☐ Bridge Structure
- ☐ Other _____

HIGHWAY PLANTING RESTORATION COST INFORMATION:	
☒ Highway Planting	$250,000
☒ Irrigation	$150,000
☒ _____-year Plant Establishment	$180,000
☐ Inert Materials	**$ 580,000**
HIGHWAY PLANTING SUBTOTAL	
EROSION CONTROL COST INFORMATION:	
☒ Soil Stabilization (BFM, Hydroseed, Compost, etc.)	$ 164,600
☒ Sediment Control (RECP, Fiber Rolls, etc.)	$ 122,000
☒ Soil Building (Incorporate Materials, Duff, etc.)	$ 400
☐ Steep Slope (Wire Blanket, Cellular Confinement, etc.)	$ _____
EROSION CONTROL SUBTOTAL	**$ 287,000**
ROADSIDE VEGETATION MANAGEMENT TREATMENT NEEDS:	
☒ Guardrails treatment needs cost info.	$ Not included: (to be determined)
MITIGATION PLANTING COST INFORMATION:	
☐ Landscape Architecture Tasked Biological Reveg.	$ --
☐ Visual Impact Mitigation Planting	$ --
MITIGATION SUBTOTAL	
TOTAL	**867,000**

(1) NORTH REGION
LANDSCAPE ARCHITECTURE ASSESSMENT SHEET
03-LAND-0002 (Rev. x/xx)

PREPARED BY: _____ DATE: 1/18/17

CONCURRED BY: _____ DATE: 1/23/17
(Project Manager)

APPROVED BY: _____ DATE: 1/18/17
(Landscape Architecture or Engineering Services Branch Chief)

NORTH REGION
LANDSCAPE ARCHITECTURE ASSESSMENT SHEET
0381 Resources Required
EA:03-0H480/ RHMA Overlay

		BASE + SR
150	**DEVELOP PROJECT INITIATION DOCUMENT (PID)**	**53**
150.15.35	Multimodal Review	9
150.15.99	LAAS Landscape Architecture Assessment Sheet	18
150.20.15	VIA Scenic Resource & Landscape Architecture Review	26
150.25.20	PID Circulation, Review and Approval	4
150.25.25	Storm Water Data Report	4
160	**PERFORM PRELIMINARY ENGINEERING STUDIES AND PREPARE DRAFT PROJECT REPORT**	**136**
160.05.30	Project Scope Review	4
160.05.35	Project Cost Estimate Review	4
160.10.20	Value Analysis	9
160.10.55	Multi-modal Study	18
160.10.60	Park & Ride Study	9
160.10.85	Structures Advanced Planning Study	18
160.15.99	NOT Strategy/ Initial RUSLE for PA&ED	26
160.15.99	LAAS Landscape Architecture Assessment Sheet	26
160.20.05	Cost Estimates for Alternatives	9
160.20.20	Draft Project Report	9
160.20.25	Draft Project Report Circulation, Review, and Approval	4
165	**PERFORM ENVIRONMENTAL STUDIES AND PREPARE DRAFT ENVIRONMENTAL DOCUMENT (DED)**	**57**
165.05.05	Review Project Information	9
165.05.10	Public and Agency Scoping Process	9
165.10.20	VIA & Scenic Resource Evaluation	26
165.25.15	Categorical Exemption/ Categorical Exclusion	4
165.25.20	Environmental Quality Control & Other Reviews	9
175	**CIRCULATE DRAFT ENVIRONMENTAL DOCUMENT AND SELECT PREFERRED PROJECT ALTERNATIVE**	**53**
175.10.15	Displays for Public Hearing	44
175.10.35	Public Hearing	9
180	**PREPARE AND APPROVE PROJECT REPORT AND FINAL ENVIRONMENTAL DOCUMENT**	**22**
180.05.05	Updated Draft Project Report	9
180.05.15	Updated Storm Water Data Report	4
180.10.05	Prepare and Approve FED	4
180.15.20	Environmental Commitments Record	4
185	**PREPARE BASE MAPS AND PLAN SHEETS**	**44**
185.05.05	Project Concept Review	9
185.05.10	Updated Project Information	9
185.15	Preliminary Design	9
185.15.20	Value Analysis	9
185.25.25	Determine Water Well Abandonment Needs	9
205	**OBTAIN PERMITS, AGREEMENTS & ROUTE ADOPTIONS**	**18**
205.05	Obtain Permits	18
230	**PREPARE DRAFT PS&E**	**440**
230.05.30	Construction Details	44
230.05.40	Summary of Quantities Sheets	18
230.05.55	Standard Plans Selection	9
230.10.05	Highway Planting Plans	44
230.10.10	Erosion Control Plans	44
230.10.15	Plant List	18
230.10.20	Irrigation Plans	44
230.10.30	Irrigation Quantity Sheets	26
230.10.99	Other Draft Highway Planting Plan Products	44
230.35.05	Roadway Specifications	25
230.35.10	Highway Planting Specifications	25
230.35.40	Erosion Control Specifications	25
230.40.05	Roadway Quantities and Estimate	25
230.40.10	Highway Planting Quantities and Estimate	13
230.40.40	Erosion Control Quantities and Estimate	13
230.40.45	Design RUSLE for Slope Stablization Requirements	13
230.60.05	Updated Storm Water Data Report	4
230.60.10	Other Reviews and Update of Project Information	6
235	**MITIGATE ENVIRONMENTAL IMPACTS AND CLEAN UP HAZARDOUS WASTE**	**44**
235.05.15	Perform Biological Mitigation	44
255	**CIRCULATE, REVIEW, AND PREPARE FINAL DISTRICT PS&E PACKAGE**	**74**
255.05	Circulated & Reviewed Draft District PS&E Package	9
255.10.05	Update Roadway PS&E	9
255.10.10	Update Highway Planting PS&E	9
255.20.05	Reviewed Plans for Drafting Standards Compliance	9
255.20.99	Construction Water Availability Request	12
255.30	Prepare Materials Information Handout	9
255.35.10	Construction Staking Package	9
255.40	Resident Engineer's Pending File	9
260	**CONTRACT BID DOCUMENTS READY TO LISTontract Bid Documents Ready to List**	**26**
260.70	Draft Contract Comment Response (DR)	26
265	**AWARDED AND APPROVED CONSTRUCTION CONTRACT**	**26**
265.55	Advertised Contract	26
270	**CONSTRUCTION ENGINEERING AND GENERAL CONTRACT ADMINISTRATION**	**26**
270.20.50	Technical Support	18
270.25.15	Pre-Construction Meeting	9
285	**CONTRACT CHANGE ORDER ADMINISTRATION**	**18**
285.10	Functional Support	18
295	**ACCEPT CONTRACT, PREPARE FINAL CONSTRUCTION ESTIMATE, AND PREPARE FINAL REPORT**	**48**
295.15	Prepare As-Built Plans	39
295.20	Prepare Project History File	9
TOTAL		**1086**

Last Revised: 11/12/16 (JLP)