08 - SBd - 60 - R7.83/R7.91 EA 1F2600 - Project No. 0814000194 Program Code - 800.100 (HE11) February 2018

Project Report For Project Approval

On A

Archibald Avenue

Between

E. Oak Hill Drive

And

Monticello Place

At

State Route 60 Interchange in the City of Ontario

I have reviewed the right of way information contained in this report and the right of way data sheet attached hereto and find the data to be complete, current and accurate:

REBECCA GUIRADO
Deputy District Director
Right of Way

APPROVAL RECOMMENDED:

RAFIH ACHY

Project Manager

CONCURRED BY:

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Deputy District Director Traffic Operations

CONCURRED BY:

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Deputy District Director

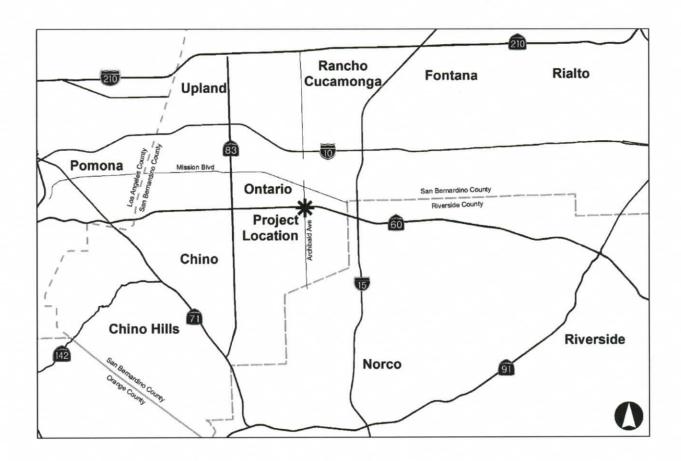
Design

APPROVED:

JOHN BULINSKI District Director 3/8/18

DATE

Vicinity Map



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

BRANDON REYES

Registered Civil Engineer Michael Baker International



SUBMITTED BY:

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SBCTA

CONCURRED BY:

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1. INTRODUCTION

Project Description

In an effort to improve traffic operations along Archibald Avenue, the City of Ontario (City), in cooperation with the California Department of Transportation (Caltrans) District 8 and the San Bernardino County Transportation Authority (SBCTA), is proposing improvements on Archibald Avenue between East Oak Hill Drive and Monticello Place near the State Route 60 (SR-60) interchange (Project). The Build Alternative proposes improvements to Archibald Avenue and the SR-60 ramps. See Attachment B for project maps. Currently, the Project will be funded by SBCTA and the City. Caltrans will be the lead agency for California Environmental Quality Act (CEQA) and has a development category 5 as noted in Table 1 and outlined in Attachment J-Project Category Agreement.

Below is a summary of the Project information.

Table 1: Project Summary

Table 1.	Froject Summary				
Project Limits	08-SBd-60 PM R7.83/PM R7.91				
Number of Alternatives	1 (Build Alternative)				
	Current Cost	Escalated Cost			
	Estimate:	Estimate:			
Capital Outlay Support	\$1,435,000	\$1,435,000			
Capital Outlay Construction	\$8,818,700	\$9,925,525			
Capital Outlay Right of Way	\$781,193 \$781,193				
Funding Source	Development Impact Fee Program				
_	(DIF), San Bernardino County				
	Measure I				
Funding Year	2018-2019				
Type of Facility	Interchange				
Number of Structures	3 (1 existing, 2 pr	roposed)			
Environmental Determination	Categorical Exem	nption (CE) - CEQA			
or Document					
Legal Description	CONSTRUCTIO	N ON AND			
	ADJACENT TO	STATE HIGHWAY			
Project Development Category	5				

2. RECOMMENDATION

The document recommends that the Project be approved using the Build Alternative and that the Project proceed to the Plans, Specifications & Estimates (PS&E) phase.

3. BACKGROUND

Project History

The project initiation document (PID) phase was initiated in early 2015 and completed in August, 2016. There has always been a single Build Alternative for the Project, which has not changed from the previous phase. Right of way has yet to be acquired for the Project; appraisals and acquisitions are anticipated to begin in the next phase. The regional location of the Project is shown in Attachment B - Location Maps.

The Project is currently listed in SBCTA's Measure I Local Street Capital Improvement Plan and is a part of the City's DIF. The improvement project has \$14,563,000 programmed shared by both agencies. SBCTA and the City have attended all pertinent project meetings including the monthly Project Development Team (PDT) meetings since the kickoff of the Project and fully support the Build Alternative.

Community Interaction

Since the Project has been identified as categorically exempt through Caltrans' CEQA determination process, it does not require the preparation and circulation of a draft environmental document. While a formal public meeting is not required for the Project an open house style meeting was held on May 24, 2017 that informed the general public with updates on the progress of the Project. Local residents and businesses were invited to the meeting, which was held at the nearby Ontario Police Department. SBCTA, the City and Caltrans were all in attendance.

Those in attendance at the open house, which were mostly the local business owners/operators, gave positive feedback about the Project and were in support of the need and Build Alternative. Concern was raised about impacts to business accessibility during construction. Follow up meetings with the affected businesses throughout the current and subsequent project phases will be necessary to ensure the necessary communication and coordination takes place to mitigate and/or eliminate business impacts. Another open house will be scheduled prior to construction to provide updates on construction schedule and potential project impacts.

Existing Facility

SR-60 is an east-west transportation route within Los Angeles, San Bernardino and Riverside counties. It connects the Los Angeles metropolitan area with southwest San Bernardino and northwest Riverside counties. The west terminus is located at its junction with I-10 in Los Angeles. Its east terminus is located at the junction with I-10 in Beaumont. It is also a Surface Transportation Assistance Act (STAA) Route for use by oversized trucks. The segment of SR-60 within the Project limit is a divided tenlane freeway. It has four mixed-flow lanes and one High Occupancy Vehicle (HOV) lane in each direction. Based on Caltrans 2013 Traffic Data, the annual average daily

traffic (AADT) volume to the east and west of the interchange is approximately 215.000.

Archibald Avenue is a north-south arterial in the City of Ontario providing access throughout the City. Per the City's General Plan Roadway Network, Archibald Avenue is identified as a principal arterial. Currently, it is a six-lane divided roadway with a raised median, curbs and sidewalks to the north and south of the interchange. Archibald Avenue ends near the Ontario Airport runway located approximately one mile north of the interchange.

The existing Archibald Avenue undercrossing (UC) is within the boundary of the Project. The Archibald Avenue UC (PM R7.87, Bridge Number 54-0841) is comprised of westbound (WB) and eastbound (EB) structures, each built in 1971. Previously, each structure was a two-span cast-in-place box girder bridge supported by a two-column bent. In 1997, a cast-in-place box girder structure was erected to close the median gap of the SR-60 mainline. The entire structure now measures approximately 164 feet in width by 150 feet in length spanning over eight lanes of Archibald Avenue. The bridge abutments are supported on piles with retaining walls in place to retain the soil in front of them. There are no proposed improvements to the Archibald Avenue UC by the Project.

The interchange is currently a Type L-1 tight diamond interchange. The existing ramps terminate at Archibald Avenue and the ramp termini are signal controlled. The exit ramps are single lane that open to dual lane at the interchange, while the entrance ramps are metered two-lane facilities that reduce to single lane as they enter the freeway. Existing development in the immediate vicinity of the interchange includes a police station, fast-food restaurants, a medical office, a hotel and residential to the south of the interchange. Development to the north of the interchange consists mostly of industrial and warehouse uses.

Archibald Avenue at this location is not a designated bicycle facility, but does have full pedestrian access via sidewalks, crosswalks and curb ramps. In order to provide and maintain the safety and mobility of non-motorized travelers, the Project will upgrade substandard pedestrian features.

4. PURPOSE AND NEED

4A. Problem, Deficiencies, Justification

Purpose:

The purpose of the Project is to:

- Relieve congestion and improve traffic operations on Archibald Avenue between East Oak Hill Drive and Monticello Place near the SR-60 interchange;
- Address increased travel associated with existing and planned development anticipated in the Cities of Ontario and Eastvale, including the Ontario Ranch development to the south; and

Need:

The Project is needed to address the following deficiencies:

- Archibald Avenue currently experiences queuing and congestion at the ingress and egress to SR-60, resulting in delay of travel time to local residents – the condition is expected to continue to decline as forecast volumes increase in this area;
- The forecast increased traffic volumes, due to existing and planned development, in conjunction with deficient left and right-turn storage length from Archibald Avenue to SR-60 are expected to result in the deterioration of traffic operations to level of service F by the design year 2040;

4B. Regional and System Planning

Identify Systems

SR-60 is included in the State Freeway and Expressway System with the Federal Functional classifications of "other freeway or expressway" as a Principal Arterial traversing urbanized and rural areas. SR-60 has been identified in the National Highway System (NHS) and the Goods Movement Action Plan (GMAP). The 1990 Federal Surface Transportation Assistance Act identifies SR-60 as a "National Network" route for STAA trucks. SR-60, within the project limits, is not identified in the Extralegal Load Network (ELLN) according to the Division of Traffic Operations (May 2001).

State Planning

The Build Alternative does not propose any work on the mainline of SR-60.

In June 2017, Caltrans prepared a District System Management Plan (DSMP) for SR-60 in which the freeway is identified as a primary goods movement route, a priority freight corridor and an OmniTrans service area.

The Caltrans Transportation Concept Report (TCR), dated September 2012, identifies the project limits within Segment 1. The TCR also identifies eight mixed flow lanes and two managed lanes for the 2035 concept facility to maintain LOS E through Segment 1 of SR-60. The TCR identifies the Programmed Project to widen the Archibald Avenue off-ramps within post miles 7.6 and 7.8.

Regional Planning

The Build Alternative is described in the Alternatives section of this document (Section 5) and is consistent with the 2017 Federal Transportation Improvement Program (FTIP) and 2016 Regional Transportation Plan (RTP). The 2017 FTIP (ID# 201132) and 2016 RTP (ID# 4M07017) description is as follows:

FTIP - SR-60 AT ARCHIBALD AVENUE WIDEN ON AND OFF RAMPS (ADD 1 LANE), WIDEN WB AND EB EXIT RAMPS (ADD LEFT TURN LANE), ADD ADDITIONAL LEFT TURN LANE FROM ARCHIBALD AVE TO SR-60 ENTRY RAMPS.

RTP - SR-60 AT ARCHIBALD AVENUE WIDEN ON AND OFF RAMPS (2-3 LANES EACH WAY); ADD ADDITIONAL LEFT TURN POCKETS FROM ARCHIBALD TO SR-60 ON RAMPS (NON-CAPACITY ENHANCING ALONG ARCHIBALD).

Local Planning

The Project is consistent with regional and local planning. Within the project limits, Archibald Avenue is included in the City's current Functional Roadway Classification Plan (FRCP), dated September 20, 2016 and is listed as a 6-lane principal arterial and City truck route. As stated in the City's FRCP goals, the Project will: comply with safety standards, meet the needs of multiple transportation modes and users, maintain Level of Service (LOS) E or better at all intersections and to be compatible with streetscape and surrounding land uses. The City will maintain involvement through PS&E and construction to ensure the Project maintains project consistency with their overall goals for the facility.

Transit Operator Planning

Based upon the City's General Plan, the City does not have existing or future plans for transit operations on SR-60 or Archibald Avenue within the project limits. Therefore, current transit planning within the project limits does not address future plans for transit operations. The proposed Build Alternative does not preclude future transit operations within the project limits by providing HOV preferential lanes and ramp metering on all entrance ramps.

4C. Traffic

Current and Forecast Traffic

A Traffic Operations Analysis Report (TOAR) was prepared and approved on September 28th, 2017. The TOAR analyzed traffic forecasts at the intersections, ramps, driveways and mainline; and summarized the findings. Detailed information can be found in the approved TOAR, which is summarized in this section.

Intersection turning movement counts were collected from the field in fall 2015 when schools were in session. Existing signal timing plans at study intersections were obtained from involved jurisdictions including Caltrans and the City of Ontario. Other operational data was also obtained from the field, including travel speeds, vehicle queues and other operational characteristics.

Future traffic forecasts at the study intersections and freeway facilities under the opening year 2020 and design year 2040 were developed utilizing the San Bernardino Transportation Analysis Model (SBTAM) and adjusted using the methodologies delineated in the National Cooperative Highway Research Program Report (NCHRP) 255 published by the Transportation Research Board (TRB). The Base Year (2008) and Future Year (2035) SBTAM models were used to calculate the annual growth at study facilities to generate 2040 volumes. The adjusted forecasts were then balanced along the corridor to ensure that vehicles do not "disappear" in the simulation model. In order to balance the volumes, conservation of flow was applied beginning with the upstream volumes and accounting for any trips entering or exiting the corridor through the study area. Additionally, the opening year 2020 traffic forecasts were developed using linear interpolation between existing volumes and design year 2040 traffic forecasts.

The total truck percentage for Archibald Avenue and the SR-60 ramps is 17.1%. Truck traffic percentages were based on vehicle classification data collected on Archibald Avenue between Philadelphia Street and SR-60. This data was collected by National Data and Surveying Services on June 27, 2013.

Intersection Analysis

Table 2 shows the peak hour volumes at each intersection for the existing conditions along Archibald Avenue.

Table 2: Existing Intersection Traffic Data Summary

Peak Hour Volumes	Left Turn (AM/PM)	Through (AM/PM)	Right Turn (AM/PM)							
Archibald Avenue & Philadelphia Street										
EB Philadelphia Street	27/72	94/339	109/364							
WB Philadelphia Street	74/218	205/153	46/17							
NB Archibald Avenue	383/215	832/270	200/67							
SB Archibald Avenue	46/44	249/808	32/51							
	Archibald Avenue &	SR-60 WB Ramp								
NB Archibald Avenue	501/392	1,090/412	N/A							
SB Archibald Avenue	N/A	325/1,093	100/385							
SR-60 WB Off-Ramp	298/373	1/2	392/198							
	Archibald Avenue &	SR-60 EB Ramp								
NB Archibald Avenue	N/A	1,199/744	338/364							
SB Archibald Avenue	106/284	517/1,182	N/A							
SR-60 EB Off-Ramp	392/60	1/1	362/455							
	Archibald Avenue 8	Oak Hill Drive								
EB Oak Hill Drive	267/288	10/17	36/83							
WB Oak Hill Drive	45/67	15/11	80/48							
NB Archibald Avenue	122/105	1,127/756	65/45							
SB Archibald Avenue	125/164	510/1,154	143/156							

Tables 3 and 4 show the forecasted peak hour volumes at each intersection for the respective opening year 2020 and design year 2040 conditions along Archibald Avenue.

Table 3: Opening Year 2020 Intersection Traffic Data Summary

Peak Hour Volumes	Left Turn (AM/PM)	Through (AM/PM)	Right Turn (AM/PM)							
Archibald Avenue & Philadelphia Street										
EB Philadelphia Street	40/80	120/360	120/400							
WB Philadelphia Street	90/280	210/180	50/20							
NB Archibald Avenue	400/240	930/420	240/130							
SB Archibald Avenue	50/50	370/980	40/60							
Archibald Avenue & SR-60 WB Ramp										
NB Archibald Avenue	530/400	1,230/6,20	N/A							
SB Archibald Avenue	N/A	455/1,235	120/520							
SR-60 WB Off-Ramp	310/390	0/0	410/230							
	Archibald Avenue 8	SR-60 EB Ramp								
NB Archibald Avenue	N/A	1,330/870	355/380							
SB Archibald Avenue	165/400	600/1,225	N/A							
SR-60 EB Off-Ramp	430/150	0/0	370/470							
	Archibald Avenue	& Oak Hill Drive								
EB Oak Hill Drive	290/300	20/20	40/90							
WB Oak Hill Drive	50/70	20/20	100/50							
NB Archibald Avenue	130/110	1,225/890	70/50							
SB Archibald Avenue	150/175	550/1,160	170/200							

Table 4: Design Year 2040 Intersection Traffic Data Summary

	8		
Peak Hour Volumes	Left Turn (AM/PM)	Through (AM/PM)	Right Turn (AM/PM)
	Archibald Avenue & P	hiladelphia Street	
EB Philadelphia Street	80/80	210/410	170/540
WB Philadelphia Street	150/490	220/290	50/20
NB Archibald Avenue	450/320	1,420/930	420/350
SB Archibald Avenue	50/50	860/1,630	60/60
	Archibald Avenue &	SR-60 WB Ramp	
NB Archibald Avenue	550/510	1,870/1,260	N/A
SB Archibald Avenue	N/A	960/2,070	210/680
SR-60 WB Off-Ramp	340/500	0/0	490/400
	Archibald Avenue 8	SR-60 EB Ramp	
NB Archibald Avenue	N/A	1,830/1,410	370/450
SB Archibald Avenue	400/530	900/2,040	N/A
SR-60 EB Off-Ramp	590/360	0/0	440/480
	Archibald Avenue	& Oak Hill Drive	
EB Oak Hill Drive	300/320	30/20	60/100
WB Oak Hill Drive	60/70	20/20	110/80
NB Archibald Avenue	150/110	1,720/1,450	90/50
SB Archibald Avenue	200/200	840/1,920	200/240

Intersection Analysis - Existing Conditions

Table 5 summarizes the existing AM and PM peak hour delay and corresponding LOS of the study intersections.

Table 5: Existing Intersection Peak Hour Analysis Summary

Intersection		Control	AN	Λ	PM	
		Control	Delay	LOS	Delay	LOS
1	Archibald Avenue/Philadelphia Avenue	Signal	20	В	30	C
2	Archibald Avenue/Monticello Place	Side-street Stop	3	A	35	D
3	Archibald Avenue/IHOP Driveway	Side-street Stop	8	Α	4	Α
4	Archibald Avenue/Sherwin Williams Driveway	Side-street Stop	5	A	7	Α
5	Archibald Avenue/SR-60 WB Ramps	Signal	24	C	38	D
6	Archibald Avenue/SR-60 EB Ramps	Signal	21	C	30	C
7	Archibald Avenue/Denny's Driveway	Side-street Stop	62	F	40	E
8	Archibald Avenue/Pacific Plaza Driveway	Side-street Stop	5	Α	59	F
9	Archibald Avenue/Hotel Driveway	Side-street Stop	67	F	92	F
10	Archibald Avenue/Gas Station	Side-street Stop	32	D	36	E
11	Archibald Avenue/Oak Hill Drive	Signal	24	C	82	F

Bold and highlighted text indicates unacceptable level of service.

AM = morning peak hour, PM = evening peak hour, LOS = level of service

Source: Fehr & Peers, 2017

During the AM peak hour, all intersections operate at acceptable LOS D or better with the exception of the two driveway intersections south of the interchange, which operate at LOS F.

During the PM peak hour, all intersections operate acceptably at LOS E or better, except for two driveway intersections, the Gas Station and Hotel Driveway and the intersection of Archibald Avenue/Oak Hill Drive which operate at LOS F.

Intersection Analysis - Forecast Year 2020 Conditions

Table 6 summarizes the forecast year 2020 AM and PM peak hour delay and corresponding LOS of the study intersections. This analysis was completed for the Build Alternative and a No Build Scenario for comparison.

For signalized intersection, delay shows whole intersection weighted average control delay using methods described in the 2010 HCM.

Table 6: Opening Year 2020 Intersection Peak Hour Analysis Summary

		1	WE ST	1900	Build Alternative					
	Intersection	Control	AN	AM		PM		AM		И
			Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
1	Archibald Avenue/Philadelphia Avenue	Signal	19	В	88	Ē	19	В	33	С
2	Archibald Avenue/Monticello Place	Side-Street Stop	4	Α	1394	F	4	A	36	E
3	Archibald Avenue/IHOP Driveway	Side-Street Stop	9	Α	24	С	9	Α	5	А
4	Archibald Avenue/Sherwin Williams Driveway	Side-Street Stop	9	Α	24	С	5	Α	4	A
5	Archibald Avenue/SR-60 WB Ramps	Signal	27	С	71	E	18	В	24	С
6	Archibald Avenue/SR-60 EB Ramps	Signal	25	С	116	Ē	14	В	21	С
7	Archibald Avenue/Denny's Driveway	Side-Street Stop	164	E	105	E	9	Α	11	В
8	Archibald Avenue/Pacific Plaza Driveway	Side-Street Stop	9	Α	101	F	6	Α	21	С
9	Archibald Avenue/Hotel Driveway	Side-Street Stop	400	Ē	288	F	9	А	10	А
10	Archibald Avenue/Gas Station	Side-Street Stop	377	F	140	F	12	В	8	A
11	Archibald Avenue/Oak Hill Drive	Signal	91	F	133	F	22	C	29	C

Bold and highlighted indicates unacceptable level of service.

AM = marning peak hour, PM = evening peak hour, LOS = level of service

AM Peak Hour

Under the No Build Scenario, all study intersections would operate acceptably, except for three driveway intersections: the Denny's, Hotel and Gas Station driveways. The intersection of Archibald Avenue and Oak Hill Drive, which operates at LOS F, also operates unacceptably under this scenario.

With the Build Alternative, all study intersections would improve to acceptable operations.

PM Peak Hour

Under the No Build Scenario, the majority of the study intersections would operate at LOS E or F, with the exception of two driveway intersections: the IHOP driveway and the Sherwin Williams driveway to the north of the interchange.

With the Build Alternative, all study intersections would improve to acceptable operations.

For signalized intersection, delay shows whole intersection weighted average control delay using methods described in the 2010 HCM.
 Source: Fehr & Peers, 2016

Intersection Analysis - Forecast Year 2040 Conditions

Table 7 summarizes the forecast year 2040 AM and PM peak hour delay and corresponding LOS of the study intersections. This analysis was completed for the Build Alternative and a No Build scenario for comparison.

Table 7: Design Year 2040 Intersection Peak Hour Analysis Summary

	Table 7. Design Tea	2010 1111	er sectio	No B		Indiy	Build Alternative				
HIM	Intersection	tersection Control AM		1	PM		AM		PM		
			Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	
1	Archibald Avenue/Philadelphia Avenue	Signal	61	E	204	Ē	22	С	105	E	
2	Archibald Avenue/Monticello Place	Side-Street Stop	147	F	1656	F	14	В	863	F	
3	Archibald Avenue/IHOP Driveway	Side-Street Stop	27	D	20	С	13	В	19	С	
4	Archibald Avenue/Sherwin Williams Driveway	Side-Street Stop	28	D	23	С	8	Α	8	Α	
5	Archibald Avenue/SR-60 WB Ramps	Signal	40	D	84	F	20	С	30	С	
6	Archibald Avenue/SR-60 EB Ramps	Signal	71	E	97	F	22	С	25	С	
7	Archibald Avenue/Denny's Driveway	Side-Street Stop	906	F	239	F	11	В	15	С	
8	Archibald Avenue/Pacific Plaza Driveway	Side-Street Stop	36	E	93	F	15	C	55	E	
9	Archibald Avenue/Hotel Driveway	Side-Street Stop	1447	F	752	F	25	D	17	С	
10	Archibald Avenue/Gas Station	Side-Street Stop	618	F	579	F	25	С	16	С	
11	Archibald Avenue/Oak Hill Drive	Signal	137	F	143	F	36	D	33	С	

Bold and highlighted text indicates unacceptable level of service.

AM = morning peak hour, PM = evening peak hour, LOS = level of service

1. For signalized intersection, delay shows whole intersection weighted average control delay using methods described in the 2010 HCM. Source: Fehr & Peers, 2016

AM Peak Hour

Under the No Build Scenario, the majority of the study locations operate unacceptably at LOS E or LOS F, except for three study intersections, including:

- · Archibald Avenue/IHOP Driveway
- Archibald Avenue/Sherwin Williams Driveway
- Archibald Avenue/SR-60 Westbound Ramps

With the Build Alternative, all study intersections would improve to acceptable operations.

PM Peak Hour

Under the No Build Scenario all study intersections would operate at LOS F during the PM peak hour, except for the IHOP driveway and Sherwin Williams driveway.

With the Build Alternative, most study intersections would improve and operate acceptably at LOS D or better. Two intersections, including Archibald Avenue/Philadelphia Street and Archibald Avenue/Monticello Place, would continue to operate unacceptably at LOS F. However, the operations at these intersections would improve significantly under the Build Alternative compare to the No Build Scenario. Simulation has determined that unacceptable operations at these intersections will not affect corridor operations, or operations of the ramp terminal intersections. The intersection of Archibald Avenue and Philadelphia Street is under the jurisdiction of the City and due to the reduced delay at this intersections under the Build Alternative, the City has agreed on July 20, 2017 to accept LOS F at this intersection for the purpose of this study.

Freeway Mainline Analysis

Since no improvements are proposed on SR-60 mainline, freeway analysis results are expected to remain the same under the two project scenarios. Because no improvements are proposed to the freeway mainline as part of the Project, changes in freeway operations are due to the increased mainline demand by Opening and Forecast Years. Furthermore, the Project has been recognized as a non-capacity enhancing project. Therefore, mainline analysis is not included in this report, but can be found in detail in the approved TOAR.

Collision Analysis

Caltrans staff provided collision data for the study area for the three-year period between July 2012 and June 2015 through their Traffic Accident Surveillance and Analysis System (TASAS). Collision data for Archibald Avenue was obtained from the City of Ontario Police Department Collision Summary Report, dated January 4, 2018. This report includes collision data for a five-year period between January 2013 and December 2017. In order to provide an effective comparison between Archibald Avenue and SR-60 ramp collision quantities, a three-year period from January 2015 to December 2017 was selected for the analysis of collisions on Archibald Avenue.

Table 8 summarizes the number of collisions and collision rates by analysis location.

Table 8: Ramp Collision Rate

Location	Number	r of Accid	ents	Actual (#of accider	(#of	age Accide accidents, vehicle mi	million		
	Total	Fatal	F+I	Total	Fatal	F+I	Total	Fatal	F+I
SR-60 EB Off-Ramp	15	0	6	1.25	0.00	0.50	1.01	0.003	0.35
SR-60 EB On-Ramp	13	0	2	1.63	0.00	0.25	0.63	0.002	0.22
SR-60 WB Off-Ramp	10	0	3	1.25	0.00	0.38	1.01	0.003	0.35
SR-60 WB On-Ramp	17	0	3	1.44	0.00	0.25	0.63	0.002	0.22
Archibald Avenue*	25	0	11	N/A	N/A	N/A	N/A	N/A	N/A

Notes: Accident rates are based on statewide average; bold text denotes locations that exceed the average.

*Ontario Police Collision Report does not include accident rates for Archibald Avenue

Source 1: Caltrans TASAS Table B data July 1, 2012 to June 30, 2015

Source 2: Ontario Police Department Collision Report January 1, 2015 to December 31, 2017

As shown in Table 8, a total of 80 collisions occurred in the study area between July 2012 and June 2015. Within the study area 35% of collisions occurred on the EB ramps, 34% occurred on the WB ramps, and 31% of collisions occurred on Archibald Avenue. Actual accident rates at all the analyzed ramps are higher than the statewide average accident rate for similar facilities:

- Eastbound SR-60 off-ramp to Archibald Avenue (24% higher for total collisions and 15% higher for total fatalities and injuries accident rate)
- Eastbound SR-60 on-ramp from Archibald Avenue (100% higher for total collisions and 3% higher for total fatalities and injuries accident rate)
- Westbound SR-60 off-ramp to Archibald Avenue (24% higher for total collisions and 3% higher for total fatalities and injuries accident rate)
- Westbound SR-60 on-ramp from Archibald Avenue (81% higher for total collisions and 3% higher for total fatalities and injuries accident rate)

Table 9 summarizes the collision type by analysis location.

Table 9: Ramp Collision Type

Tubic Milliam Common Type									
Location	Total	Sideswipe	Rear End	Broadside	Hit Object	Other			
SR-60 EB Off-Ramp	15	1	11	3	0	0			
SR-60 EB On-Ramp	13	2	7	4	0	0			
SR-60 WB Off-Ramp	10	4	4	1	0	1			
SR-60 WB On-Ramp	17	5	7	3	1	1			
Archibald Avenue	25	6	7	11	1	0			
Total	80	18	36	22	2	2			

Source 1: Caltrans TASAS Table B data July 1, 2012 to June 30, 2015

Source 2: Ontario Police Department Collision Report January 1, 2015 to December 31, 2017

As shown in Table 9, 36 of the 80 collisions were rear-end collisions making them the most frequent type of collisions in the study area, followed by broadside collisions. Rear end collisions are usually caused by stop and go conditions and/or off ramps at

the end of a downgrade slopes; it is important to look at collision locations to further understand this high frequency collision type.

The Project will upgrade nonstandard ramp shoulders, ADA facilities as well as improve traffic operations all of which are anticipated to help mitigate some of the causes of collision types and factors within the Project limits. Furthermore, the Project does not introduce design exceptions that are anticipated to increase collision rates.

5. ALTERNATIVES

5A. Build Alternatives

The PDT has developed a single Build Alternative that is deemed viable for the Project Approval and Environmental Document (PA&ED) phase. The Build Alternative proposes the widening of Archibald Avenue including the ramps of the existing tight diamond interchange. A No Build was also analyzed in the PSR-PDS phase and subsequent traffic studies and was determined to not meet or satisfy the purpose and need of the Project.

Without the Project, Archibald Avenue near SR-60 would continue to operate with existing geometric deficiencies. The following deficiencies within the project area were identified:

- Non-standard off-ramp shoulders near the ramp termini
- Absence of California Highway Patrol (CHP) enforcement areas at metered onramps
- Non-standard outside shoulder along Archibald Avenue between the ramps
- · Non-standard Americans with Disabilities Act (ADA) facilities
- · Non-standard lane and shoulder width along Archibald Avenue

Proposed Engineering Features

The Build Alternative proposes improvements to Archibald Avenue and the SR-60 ramps.

Archibald Avenue Improvements

Archibald Avenue would be widened to accommodate the following features:

- Additional left-turn lanes in each direction
- Additional right-turn pockets approaching the eastbound and westbound onramps
- Extended left-turn lane storage length approximately 190 ft. south of the interchange for northbound traffic accessing the westbound on-ramp
- Standard 6.5 ft. sidewalk widths (including curb) and ADA compliant curb ramps

A Subhorizontal Ground Anchor (SHGA) retaining wall consisting of a 1 ft.-10 in. thick reinforced concrete section and SHGAs is required to retain the soil beneath the abutments as well as the bridge abutment pile loads to accommodate the widening of Archibald Avenue. Due to the large width of the street widening, approximately 22-ft. in each direction, the new SHGA retaining wall will be placed immediately adjacent to the existing abutment footing as shown on Attachment C – Plans & Typical Sections. Special attention will be given to ground anchor placement between the existing abutment piles. The SHGA wall at each abutment is estimated to be 164 ft. long and 13 ft. tall. In addition, Type 1 retaining walls approximately 45 ft. long, with heights tapering from 13 ft. tall to 2 ft. tall will be used beyond the end of each abutment to accommodate the sloping grades.

Interchange On and Off Ramp Improvements

All ramps would be widened to provide an additional lane and standard (8 ft. outside & 4 ft. inside) shoulder widths. A 250 ft. long Type 1 retaining wall would be needed along the westbound on-ramp to support the required CHP enforcement area and reduce grading impacts to the nearby business properties. A 225 ft. long Type 1 retaining wall at a proposed CHP enforcement area would also be needed along the eastbound on-ramp to reduce grading impacts to nearby residential properties. These proposed retaining walls would be designed and constructed in accordance with Caltrans Standards.

Structural Section

The structural sections proposed for the Build Alternative are identified in Section 5A. Viable Alternatives – Pavement Life Cycle Cost Analysis and Attachment H – Life Cycle Cost Analysis for Pavement. Existing drainage structures would be maintained and extended within the project limits.

Cost Estimate

The estimated cost for roadway improvements is \$7,225,700 (non-escalated) and the estimated cost for structures is \$1,593,000(non-escalated). The estimated total right of way cost is \$781,193(escalated). The total capital outlay support cost is \$1,435,000(escalated). Including right of way, the total estimated project cost is \$9,600,000 (current construction costs). The project costs for the Build Alternative are detailed in Attachment E-Preliminary Project Cost Estimate.

Nonstandard Mandatory and Advisory Design Features

There are seven (7) nonstandard design exceptions associated with the Build Alternative. A fact sheet for the nonstandard design exceptions has been prepared and is under review. The following describes each nonstandard feature and discusses the issues related to each nonstandard feature:

Mandatory Design Exception Features

- Thru Lane Width, HDM Index 301.1 Along Archibald Avenue in both directions, 11-foot wide through lanes are proposed at multiple locations to prevent complete reconstruction of the Archibald UC structures, while maximizing turning lane and shoulder widths. The HDM calls for 12-foot lanes along local roads with posted speeds greater than 40 mph.
- 2. Shoulder Width, HDM Index 308.1 The outer shoulders along Archibald Avenue, between the WB and EB ramps, are proposed to be 2 feet in width in order to prevent complete reconstruction of the Archibald UC structures, while maximizing turning lane widths. The HDM calls for shoulder widths to be 3 feet wider than the width of the gutter pan, which in this case, would need to be a total of 5 feet.
- 3. Left-turn Lane Width, HDM Index 405.2(2)a –The innermost left-turn lanes on Archibald Avenue in each direction are 11.5 feet wide beneath the Archibald Avenue UC. The HDM calls for 12-foot left-turn lanes along conventional highways with posted speeds greater than 40 mph. These nonstandard left-turn lane widths are proposed in order to prevent complete reconstruction of the Archibald UC structures, while maximizing sidewalk and shoulder widths.

District Delegated Mandatory Design Exception Features

1. Horizontal Clearance, HDM Index 309.1(3) – The existing columns supporting the Archibald Avenue UC bridges would be approximately 2 feet to the proposed innermost turning lane and the median barrier would against the edge of traveled way in both directions along Archibald Avenue. The HDM calls for horizontal clearance to be at least 4 feet. The proposed layout maximizes turning lane and outer shoulder widths without requiring reconstruction of the bridges. Due to the non-standard horizontal clearance, the columns would be protected via barrier separation.

Advisory Design Exception Features

- 1. Access Control, HDM Index 504.8 –The property in the northeast quadrant closest to the WB off-ramp and the properties in the southeast quadrant closest to the EB on-ramp currently have access control of approximately 85 feet and 75 feet, respectively. The property in the southwest quadrant of the interchange adjacent to the EB off-ramp currently has access control of 68 feet. The HDM calls for access control to be a minimum of 100 feet beyond the end of the curb return as an advisory condition. Relocating the only points of access to these properties beyond 100 feet is not possible without eliminating circulation to businesses.
- 2. Turning Traffic: Bike Lane, HDM Index 403.6(1) -The proposed lane configuration on Archibald Avenue does not provide a 6-foot wide bicycle separation between the through and right-turn lanes. The existing lane

configuration does not provide designated bike lanes within the limits of the Project. The HDM calls for a 6-foot wide bicycle separation between through lanes and right-turn lanes when posted speeds are greater than 40 miles per hour. Widening Archibald Avenue an additional 6 feet to accommodate this bike separation would require complete right of way acquisitions in the southeast quadrant of the Project and partial acquisitions in the northwest quadrant. To minimize the impacts to local businesses and avoid costly right of way impacts, the Project proposes that the through and right-turn lanes along Archibald Avenue do not include a separation.

3. Turning Traffic (Optional Right-turn Lane), HDM Index 403.6(1) –The proposed lane configuration on the northerly Archibald Avenue intersection of the interchange in the SB direction provides an optional right-turn lane adjacent to a right-turn only lane in an area where bicycles are permitted. The HDM does not recommend option right-turn lanes used in combination with right-turn-only lanes on roads where bicycle travel is permitted. This configuration is optimal for operations and to construct another right-turn lane would require acquisition of additional right of way, removal of handicap parking spaces, and relocation of existing utilities.

Interim Features

No interim features are proposed for the Build Alternative.

High Occupancy Vehicle (Bus and Carpool) Lanes

Existing HOV preferential lanes on the SR-60 entrance ramps would be maintained and widened to provide a standard 4-foot left shoulder. The Build Alternative will add an additional turning lane onto the entrance ramps, which will add another general purpose lane to receive the traffic; this will ensure the HOV preferential lanes do not create a "trap" lane scenario when the Project is completed.

Ramp Metering

In accordance with the Caltrans District 8 Ramp Meter Design Manual, the Project will provide three-lane metered ramps, with sufficient right of way to accommodate vehicle storage, ramp meter equipment and an HOV preferential lane. All the existing ramp metering will remain to be controlled and monitored remotely.

California Highway Patrol Enforcement Areas

CHP enforcement areas do not currently exist at the metered on-ramps, but will be added with the Project (Attachment C-Plans & Typical Sections).

Park-and-Ride Facilities

An existing Park-and-Ride facility is located along Oak Hill Drive at Montecito Baptist Church, in the southwest quadrant of the project limits. Additional Park-and-Ride facilities are not proposed.

Utility and Other Owner Involvement

The Project would require relocation or protection in place of several utility facilities. To prevent impacts to utility facilities and services during construction, the following utilities have been contacted regarding the Project:

<u>Utility</u> <u>Owner</u>

Cable Time Warner Cable

TW Telecom

Electrical Southern California Edison

Gas Southern California Gas

Water Inland Empire Utilities Agency

Wireless Verizon

The Right of Way Data Sheet and Utility Information Sheet found in Attachment F – Right of Way Data Sheet lists the utility companies affected by the Project and which ones will be protected in place.

Railroad Involvement

No railroad involvement is planned as part of the Project because there are no railroad facilities within the Project limits.

Highway Planting

Based on the scope of the Project there will be no proposed landscape improvements. The ramps of the existing interchange are planted with exotic non-native plants. Due to the proposed widening all the disrupted existing vegetation will be constructed to match the existing condition.

Erosion Control

Erosion control will be applied to the graded slopes and disturbed areas affected by the Project. The maximum side slope will be 4:1 within Caltrans right of way, except where steeper conditions are needed to join existing slopes. An Erosion Control Plan will be required to identify specific measures for control of siltation, sedimentation and other

soil materials. The plan will be implemented during the project construction period. A Storm Water Pollution Prevention Plan (SWPPP) will be developed and implemented by the contractor during the construction phase. Permanent erosion control will be installed per the construction plans, Caltrans' Standard Plans and Standard Special Provisions (SSPs) and will include hard surfaces at gore areas, swales and dissipation devices, gravel mulch and preservation of existing vegetation. The City and Caltrans District Landscape Architect will approve these items during design.

Noise Barriers

A Noise Study was not required as part of the Project. An existing noise barrier does exist along the freeway just beyond the limits of the Project and will remain in place.

Nonmotorized and Pedestrian Features

The Project includes construction of pedestrian access improvements along Archibald Avenue. These include standard sidewalk widths and ADA curb ramps at all intersection crossings. The need for right-turn pocket approaching each on-ramp will require reconstruction of existing driveways along the widening of Archibald Avenue. Electrical cabinets, fire hydrants, signs and other fixed objects will need to be placed to provide minimum clearance per ADA standards. Continued pedestrian access and clear width requirements will be accounted for to ensure that the needs of pedestrians, individuals with disabilities and bicyclists are met during construction.

Based upon the City's General Plan, the City does not have existing or future plans for bikeways on Archibald Avenue within the project limits. However, in order to accommodate bicycles, share the road signage along with appropriate detection systems will be provided at both intersection approaches.

Needed Roadway Rehabilitation and Upgrading

The existing ramp pavement is in fair condition with minor surface distress that includes minor cracking and potholes. With the ramps being widened, a rehabilitation consideration is needed to bring the existing pavement up to a similar life expectancy as the new widened portion of the roadway. The Preliminary Material Report (Approved by Caltrans on October 17th, 2017) recommends rehabilitation of the ramps as part of the Project within the limits of the widening. Per section 603.2 of the HDM, the upper 0.15 feet of the existing ramp pavements should be cold planed and overlaid with 0.15 feet of new pavement material. While the Archibald Avenue pavement is in good condition a similar approach may be taken upon further discussion between Caltrans and the City. A final rehabilitation strategy will be provided in the final Materials Report during the PS&E phase.

Needed Structure Rehabilitation and Upgrading

There are no bridges being impacted by the Project.

Cost Estimates

The cost estimate for the Build Alternative is summarized in Table 10 and detailed in Attachment E – Preliminary Project Cost Estimate. Capital outlay support costs are estimated at \$1,435,000 and are not included in these costs.

Table 10: Alternative Cost Estimates

	Roadway	Structures	Right of Way*	Total**
Build Alternative	\$7,225,700	\$1,593,000	\$781,193	\$9,600,000

^{*}Includes escalation per approved Right of Way Data Sheet

Right of Way Data

Right of way costs and impacts have been reported on the right of way data sheets (Attachment F - Right of Way Data Sheet) and are summarized in Table 10.

Effects of Projects-Funded-by-Others on State Highway

The Project will be completely funded by the City using DIF and SBCTA using Measure I funds as their sources. The Project is a non-capacity enhancing project that will not add traffic capacity to the SR-60 mainline.

5B. Rejected Alternatives

There were no alternatives that were eliminated during the preparation and approval of the Project Initiation Document for the Project. Caltrans approved the PSR-PDS on August 22, 2016. The approved PSR-PDS discusses a single alternative, the Build Alternative.

6. CONSIDERATIONS REQUIRING DISCUSSION

6A. Hazardous Waste

The Initial Site Assessment (ISA) prepared for the Project, approved on April 5, 2017, revealed the following recognized environmental conditions (REC) in connection with the project site:

^{**}Rounded cost per preliminary cost estimating guidance

- The project area is a potential source of aerially deposited lead (ADL). ADL is a regional condition common along highways and roadways and generally affects near surface soil. This finding is considered a REC. Sampling will be performed during the PS&E phase to evaluate whether ADL is present in the soil at concentrations that would warrant special handling and disposal.
- A review of historic aerial photographs revealed that the project area and surrounding area were used for agriculture (row crops and orchards) from at least 1938. The historical agricultural use and current landscaping identified with the project area is considered a REC due to the potential for pesticide residues to persist in soils at concentrations above health risk levels and/or hazardous waste levels. Sampling will be performed during the construction phase on any export soil to evaluate whether pesticides are present at concentrations that would warrant special handling and disposal.

Typical hazardous materials used during construction (e.g., solvents, paints and fuels) would be handled in accordance with standard procedures. There are standard regulations and Caltrans policies (avoidance and minimization measures) that must be followed with respect to the use, storage, handling, disposal and transport of potentially hazardous materials during construction of the Project to protect human health and the environment.

6B. Value Analysis

Per Caltrans Deputy Directive 99-R1, Value Analysis (VA); A VA study is required for all projects on the NHS utilizing federal funds with a total project cost of \$50 million or more. This Project does not meet these requirements and a VA will not be implemented.

6C. Resource Conservation

The purpose of the Project is to alleviate existing and future traffic congestion at the interchange. The Project will not generate new vehicular traffic trips since new homes or businesses will not be constructed. The Project would improve traffic flow without increasing the traffic volumes along Archibald Avenue or SR-60. The improved traffic flow would reduce the average greenhouse gas emissions generated per vehicle trip. Therefore, the proposed Build Alternative would not substantially alter long-term greenhouse gas emissions.

Measures proposed to minimize the consumption of resources include innovations such as longer pavement lives, recycling of removed pavements, improved Traffic Management Plans (TMPs) and changes in materials with longer intervals between maintenance and rehabilitation events. Additionally, greenhouse gas emissions from construction equipment vehicles will be controlled by maintaining equipment engines

in good condition and in proper tune per manufacturers' specifications. All construction vehicles on site shall be prohibited from idling in excess of 10 minutes. As required by California law, all on-road heavy-duty diesel vehicles are prohibited from idling for more than five minutes.

6D. Right of Way Issues

Right of Way Required

The Project requires approximately 4,250 square feet of Fee Acquisition, 850 square feet of Permanent Easement (PE) and 3,470 square feet of Temporary Construction Easement (TCE). It affects a total of five parcels, commercial and industrial zoned properties; one parcel is occupied by a bakery located at the northwest quadrant, one parcel is occupied by a paint company located at the northeast quadrant and three parcels occupied by restaurants and an inn located at the southeast quadrant. Reference Attachment F - Right of Way Data Sheet for more information.

Relocation Impact Studies

A Relocation Impact Study is not required for the Project as no person or business will be displaced during or upon completion of construction.

Airspace Lease Areas

The Project is not in an area of high land values having potential for future airspace leases.

6E. Environmental Compliance

The Project is Categorically Exempt under 14 CCR 15300 et seq., Class 1 (Existing Facilities) of the State CEQA Guidelines.

Refer to Attachment A – Categorical Exemption/Categorical Exclusion Determination Form, dated August 18, 2017, for further information.

Wetlands and Flood Plains

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) (Map Numbers 06071C8636H, 06071C8637H, 06071C8638H and 06071C8639H [August 28, 2008]), the project area falls within Zone X, which is defined as areas determined to be outside the 1 percent annual chance floodplain (100-

year floodplain) as defined by FEMA and is within the 0.2 percent annual chance floodplain (500-year floodplain). A separate technical study is not required for the Project.

6F. Air Quality Conformity

Consistent with the 2017 FTIP and 2016 RTP, the Build Alternative is fully compatible with the design concept and scope.

All construction vehicles and equipment would be required to be equipped with the state-mandated emission control devices pursuant to state emission regulations and standard construction practices. After construction of the Project is complete, all construction-related impacts would cease. Short-term construction particulate matter emissions would be further reduced with the implementation of required dust suppression measures outlined within the South Coast Air Quality Management District Rule 402 and 403. Caltrans Standard Specifications for Construction (Section 14-9.03[Dust Control]) would also be adhered to.

The proposed improvements would not directly generate new heavy truck trips in the project area and the Project would not increase roadway capacity or increase travel demand. As such, traffic during the Build and No Build conditions would be the same and associated vehicle emissions would not increase. Additionally, traffic operations at the study intersections would improve significantly under the Build conditions compared to the No Build scenario. The Project would not be considered a project of air quality concern (POAQC) under 40 CFR 93.123(b)(1), as it would not create a new or worsen an existing particulate matter violation. Carbon monoxide hot-spots impacts would also be less than significant. A qualitative Mobile Source Air Toxic (MSAT) analysis determined that the Project would result in minimal air quality impacts regarding Diesel Particulate Matter and MSAT emissions. There would be no significant impacts arising from the Project's operational condition.

6G. Title VI Considerations

The Project is not receiving federal assistance and therefore does not require adherence to Title VI.

6H. Noise

The project area is surrounded by General Commercial and Regional Commercial land uses, with some single-family residences located in proximity to the west end of the project alignment along the westbound on-ramp. As indicated in the project description, the Project will not add capacity to the existing local roadway or ramps. The roadway currently includes three through lanes in each direction and would remain with three through lanes in each direction following construction. Additional lanes would be added to the on-ramps, however, they would rejoin the existing single lane portion of the on-ramps beyond the meter prior to entering SR-60 and, therefore, would serve only

to store traffic and would not be considered capacity increasing. Since the Project would not add additional capacity, a noise study under CEQA is not required.

7. OTHER CONSIDERATIONS AS APPROPRIATE

Public Hearing Process

The Project possess a CE and does not require a Public Hearing. See Community Interaction section for details of Open House meeting that was held.

Route Matters

The City and Caltrans will negotiate the responsibilities of maintenance of all facilities within Caltrans right of way including walls, slopes, drainage and other facilities. Maintenance of all facilities within the City right of way including roadway, drainage and noise barriers will be the responsibilities of the City.

The Project is proposed to retain the existing roadway and its connections to the existing freeway. The connection agreements will remain consistent to the existing agreements currently in place for the SR-60/Archibald Avenue Interchange. There is no need for a revised or new connection agreement for the Project.

Permits

The following permits, reviews and approvals would be required for project construction, as shown below:

Section 401 Water Quality Certification – Santa Ana Regional Water Quality Control Board – Required for impacts (temporary and permanent) to Waters of the State

1602 Streambed Alteration Agreement – California Department of Fish and Wildlife – Required for impacts (temporary and permanent) to Waters of the State

NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities. (Order No. 2012-0006-DWQ, NPDES No. CAS000002)

Caltrans Permit, Statewide Storm Water Permit and Waste Discharge Requirements for the State of California, Department of Transportation is Order No. 2012-0011-DWQ, NPDES No. CAS000003.

Cooperative Agreements

A Cooperative Agreement (Agreement 08-1619) executed on March 24, 2016 between SBCTA and Caltrans was executed for the improvements on the Archibald Avenue Interchange. The agreement outlines each agency's design, PA&ED and right of way responsibilities for the Project. Caltrans will be responsible for the oversight of project

design and provide an encroachment permit for construction in access-controlled State right of way. SBCTA and the City will be responsible for funding the Project as well as production of all project documentation. A Construction Cooperative Agreement would be prepared to cover the construction phase and would outline the responsibilities of SBCTA and Caltrans during construction.

Report on Feasibility of Providing Access to Navigable Rivers

The Project does not lie within the vicinity of a navigable waterway; therefore no provisions have been made.

Public Boat Ramps

No public boat ramps are planned or impacted as part of the Project.

Transportation Management Plan

A TMP Data Sheet has been developed to provide recommendations to minimize the traffic impacts of construction activities (Attachment G - Transportation Management Plan Data Sheet). The TMP Data Sheet was approved on May 23, 2017. Proposed measures in the TMP Data Sheet include: Public outreach and awareness, changeable message signs, Construction Zone Enhanced Enforcement Program (COZEEP), off-peak closures and detours.

There are no long-term ramp closures during project construction anticipated.

Stage Construction

The Project has potential for multiple stages during construction to expedite construction and minimize impacts. There is no long-term lane or business closures anticipated. Aspects of the construction that will require additional consideration are the driveways and final overlay, which if not planned correctly can cause delay to the Project and have significant access restrictions to the Project. Needs of pedestrians, individuals with disabilities, bicycles, as well as the necessary temporary access will be incorporated in construction stages.

Accommodation of Oversize Loads

The aspects of the Project such as lane widening and curb return radii will be designed to accommodate standard STAA truck movements for all turning movements along Archibald Avenue and the SR-60 Ramps.

The existing minimum vertical clearance for the Archibald Avenue UC is 15 ft. 6.5 in., which meets HDM standards for a UC.

Graffiti Control

While the Project is a graffiti prone area, the geometry of an undercrossing does allow for many areas to vandalize. The Project does construct fill retaining walls, but they are not in sight of the public and therefore are not a high target for graffiti.

8. FUNDING, PROGRAMMING AND ESTIMATE

Funding

The Project is not using Federal-aid funding. The PA&ED and PS&E phases are funded by SBCTA via San Bernardino County Measure I funds along with City of Ontario DIF.

Programming

The Project is programmed in the 2016 RTP and 2017 FTIP. Refer to Section 4 – Regional Planning for the project description.

The Project is programmed for \$14,563,000 with completion of the environmental phase in February 2018 and completion of construction in August 2021. Table 11 summarizes the SBCTA funding project components.

Table 11: Programming

Phase	Funding Source				
	Measure I	DIF	Total		
PSR & PA&ED	\$268,488	\$573,512	\$842,000		
PS&E	\$301,032	\$636,968	\$938,000		
Right of Way	\$426,462	\$881,538	\$1,308,000		
Construction	\$3,873,075	\$7,601,925	\$11,475,000		
Total	\$4,869,057	\$9,693,943	\$14,563,000		

Estimate

The total fully escalated project cost estimate for the Build Alternative is \$12,150,000 and can be found in Attachment E – Preliminary Project Cost Estimate. See Section 5A. – Cost Estimates for a summary of the cost estimates.

9. DELIVERY SCHEDULE

Table 12 identifies the tentative project schedule.

Table 12: Project Schedule

Project Milestones	-	Milestone Date (Month/Day/Year)	Milestone Designation (Target/Actual)
PROGRAM PROJECT	M015	7/2/14	Actual
BEGIN ENVIRONMENTAL	M020	8/22/16	Actual
PA&ED	M200	3/1/18	Target
PROJECT PS&E	M380	4/26/19	Target
RIGHT OF WAY CERTIFICATION	M410	4/10/19	Target
READY TO LIST	M460	4/26/19	Target
FUND ALLOCATION	M470	2018/2019	Target
AWARD	M495	7/30/19	Target
APPROVE CONTRACT	M500	7/30/19	Target
CONTRACT ACCEPTANCE	M600	4/30/21	Target
END PROJECT	M800	4/23/23	Target

10. RISKS

A risk register was created for the Project in order to manage and track risks associated with the Project. Each risk was identified and strategies were developed to assist in risk management.

Potential types of risk categories for the Project include management, environmental, design, right of way and construction. Possible risks associated with each category include the following:

- Environmental: Environmental regulation changes, jurisdictional delineation
- Project Management: Schedule delay
- Design: Nonstandard lane widths, unanticipated design constraints, public opposition, design exception rejections
- Construction: Utility relocation complications
- Right of Way: Additional impacts, driveway access complications, acquisition delays

Each risk would either be accepted, mitigated, or avoided as needed. Refer to *Attachment I – Risk Register* for the detailed risk register.

11. EXTERNAL AGENCY COORDINATION

This PR has been reviewed by Caltrans' Federal Highway Administration (FHWA) Liaison, Sergio Avila on 1/12/18 and is ineligible for federal aid funding. State Route 60 is off the federal interstate system and is exempt from federal approval for design.

12. PROJECT REVIEWS

Headquarters Design Coordinator	<u>LUIS BETANCOURT</u>	_Date <u>11/27/2017</u>
FHWA/Design Liaison	SERGIO AVILA	_Date <u>02/01/2018</u>
Environmental Planning, Caltrans	District 8 RENETTA CLOUD	_Date <u>12/05/2017</u>
Right of Way Agent, Caltrans Dist	rict 8 STEVE MCCLAURY	_Date <u>02/13/2018</u>
Traffic Ops Region C, Caltrans Dis	strict 8 THERESA SASIS	_Date <u>01/31/2018</u>
Design Oversight, Caltrans District	t 8 <u>RAJBINDER S. GILL</u>	_Date <u>02/14/2018</u>

13. PROJECT PERSONNEL

Andrea Nieto Phone # 909.884.8276
Project Manager - SBCTA

Rafih Achy Phone # 909.383.4077

Project Manager - Caltrans District 8

Brandon Reyes Phone # 909.974.4967

Project Manager - Michael Baker International

Court Morgan Phone # 909.974.4967

Environmental Studies - Power Engineers, Inc.

14. ATTACHMENTS

- A. Categorical Exemption/Categorical Exclusion Determination Form
- B. Location Maps
- C. Plans & Typical Sections
- D. Advanced Planning Study
- E. Preliminary Project Cost Estimate
- F. Right of Way Data Sheet
- G. Transportation Management Plan Data Sheet
- H. SWDR signed cover sheet
- I. Risk Register
- J. Project Development Category Agreement



CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM

08—SBD—60 7.83/7.91		1F2600 4000194	—N/A—		
DistCoRte. (or Local Agency) P.M./P.M.	E.A/Proj		Federal-Aid Project No. (Lo	ocal Project\/Project No	
PROJECT DESCRIPTION: (Briefly description)			se location limits right-of-w	vay requirements and	
activities involved in this box. Use Continuation	Sheet, if necessa	ary.)			
The project consists of the widening of	Archibald Aver	nue to add an	additional left turn lane	and right turn pocket,	
in each direction. Archibald Avenue tra	in each direction. Archibald Avenue travels north/south of, and is perpendicular to State Route 60, in the city of Ontario, in San Bernardino County. The bridge itself will not be widened; tie-back walls will be constructed				
eleven (11) feet behind existing retaining	he bridge itse	If will not be	widened; tie-back walls	s will be constructed	
eleven (11) feet behind existing retaining widening would also accommodate sta	ng walls, benea	tn tne under	ADA compliant out a	den the roadway. The	
on-and off-ramps would be widened to	provide an ad	ditional lane	and standard shoulder	The project would	
require the partial acquisition of five (5) commercial r	arcels. No n	esidences or businesse	s would be displaced	
as a result of this project.				o modia no diopidoca	
CEQA COMPLIANCE (for State Projects of	only)				
Based on an examination of this proposal and su	upporting informat	ion, the following	g statements are true and ex	ceptions do not apply	
(See 14 CCR 15300 et seq.): If this project falls within exempt class 3, 4, 5,	6 or 11 it does no		.i	-d	
where designated, precisely mapped, and offi	cially adopted pur	suant to law.	ironmental resource of hazar	dous or critical concern	
 There will not be a significant cumulative effect 	ct by this project a	nd successive p	rojects of the same type in th	ne same place, over time.	
 There is not a reasonable possibility that the p 	project will have a	significant effec	t on the environment due to u	unusual circumstances.	
This project does not damage a scenic resour	ce within an officia	ally designated	state scenic highway.	2020000	
 This project is not located on a site included o This project does not cause a substantial adve 	n any list compiled	d pursuant to Go	ovt. Code § 65962.5 ("Cortes	e List").	
		significance of	a historical resource.		
CALTRANS CEQA DETERMINATION					
Not Applicable – Caltrans is not the CEQ	A Lead Agency		licable - Caltrans has prep		
Example by Statute (PRC 31090fb): 14 CC	D 15260 at ana \	Environment	al Impact Report under CE	QA	
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. (1). (PRC 21084; 14 CCR 15300 et seq.)				
Categorically Exempt. General Rule exem			within an evemnt class but if	t can be seen with	
certainty that there is no possibility that the	activity may have	a significant effe	ect on the environment (CCR	15061[b][3].)	
RENETTA CLOUD		RAFIH ACH		1-11-17	
Print Name: Senior Environmental Planner or		Print Name: Pr			
Environmental Branch Chief			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
De -4 De	0	010	10.	011-11	
Jeneus Cloud	8-18-17	Kan	Adul-	8/18/17	
Signature	Date	Signature *	0	Datě	
NEPA/COMPLIANCE		- FAL 1			
In accordance with 23 CFR 771.117, and based determined that this project:	on an examination	of this proposa	and supporting information,	the State has	
. does not individually or cumulatively have a significant	gnificant impact or	the environme	nt as defined by NEPA, and i	is excluded from the	
requirements to prepare an Environmental Ass	sessment (EA) or I	Environmental I	mpact Statement (EIS), and		
 has considered unusual circumstances pursua 	int to 23 CFR 771.	.117(b).			
CALTRANS NEPA DETERMINATION	(Check one)				
23 USC 326: The State has determined tha		no significant im	pacts 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:	31, 2010, exec	ated between the FHVVA and	the State. The State has	
☐ 23 CFR 771.117(c): activity (c)(_)				Ú.	
23 CFR 771.117(d): activity (d)()					
Activity listed in Appendix A o					
23 USC 327: Based on an examination of th				ned that the project is a	
Categorical Exclusion under 23 USC 327.					
—N/A—		N/A			
Print Name: Senior Environmental Planner or		Print Name: Pro	oject Manager/DLA Engineer		
Environmental Branch Chief					
		-			
Signature	Date	Signature		Date	
	PHILIP -				
Date of Categorical Exclusion Checklist completic	n: —N/A—	Date of ECR	or equivalent : <u>08/18/2017</u>		

Briefly list environmental commitments on continuation sheet. Reference additional information, as appropriate (e.g., CE checklist, additional studies and design conditions).

CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM Continuation Sheet

		-
7.83/7.91	EA 08-1F2600	—N/A—
	PN 0814000194	
P.M./P.M.	E.A/Project No.	Federal-Aid Project No. (Local Project)/Project No.
		PN 0814000194

Continued from page 1:

The following technical documentation was prepared in conjunction with determining and addressing applicable California Environmental Quality Act (CEQA) documentation and compliance requirements.

COMMUNITY RESOURCES / IMPACTS

- o An informal Open House Community Meeting was conducted for the proposed project on May 24, 2017 from 5:00 p.m. to 7:00 p.m. at the City of Ontario Police Department. A total of four individuals signed in at the Open House. No areas of public controversy were identified by attendees during the Open House. However, representatives attending the Open House that are associated with the Denny's Restaurant located at 2421 South Archibald Avenue, Ontario, California did express their interest in maintaining adequate access to the restaurant during construction and upon project completion.
- RIGHT OF WAY The proposed project would require partial acquisition from a total of five commercial properties no
 residences or businesses would be displaced as a result of the project. In addition, and given the nature of proposed
 improvements, the project would not physically divide an established community.

HYDROLOGICAL RESOURCES - CONCEPTUAL DRAINAGE STUDY REPORT - February 2017

Preliminary hydrological and hydraulic analyses indicate that the proposed drainage facilities (inlets and storm drains) would be sufficient to drain the project pursuant to pertinent requirements set forth in Caltrans' Highway Design Manual. However, a more detailed hydrologic and hydraulic analysis (Final Drainage Report) will be prepared during the final design phase of the project to confirm project-related drainage design requirements.

HYDROLOGICAL RESOURCES - SUMMARY FLOODPLAIN ENCROACHMENT REPORT - December 2016

 The project site is located within FEMA-mapped floodplain Zone X, defined as a 0.2% Annual Chance Flood Hazard Zone. Therefore, the proposed project would not affect a FEMA-designated 100-year floodplain.

CULTURAL RESOURCES - HISTORICAL RESOURCES COMPLIANCE REPORT/ARCHAEOLOGICAL SURVEY REPORT – May 2017

Pursuant to Public Resources Code 5024 Memorandum of Understanding Stipulation IX.A.2, Caltrans has determined
that a Finding of No State-owned Historical Resources Affected is appropriate for the proposed project because there are
no historical resources within the Project Area Limits, as defined in CEQA Guidelines Section 15064.5(a).

BIOLOGICAL RESOURCES - NATURAL ENVIRONMENT STUDY (MINIMAL IMPACTS) - January 2017

- No special-status plant or animal species are expected to be directly or indirectly impacted from implementation of the proposed project. Therefore, it has been determined that implementation of this project will have "no effect" on specialstatus species.
- The proposed project would not impact resources (drainages) subject to the jurisdiction of the U.S. Army Corps of Engineers, Santa Ana Regional Water Quality Control Board, or California Department of Fish and Wildlife.

WATER QUALITY / STORM WATER - SCOPING QUESTIONNAIRE FOR WATER QUALITY ISSUES - April 2017

Through compliance with Caltrans' National Pollutant Discharge Elimination System (NPDES) Statewide Permit Order No. 2012-0011-DWQ, NPDES No. CAS000003, as amended by Order WQ 2014-0006-EXEC, Order WQ 2014-0077-DWQ and Order WQ 2015-00036-EXEC (for improvements within Caltrans right-of-way) and the San Bernardino County NPDES Permit and Waste Discharge Requirements for the San Bernardino County Flood Control District, the County of San Bernardino, and the Incorporated Cities of San Bernardino County within Santa Ana Region - Order No. R8-2010-0036, NPDES No. CAS618036 (for improvements outside Caltrans right-of-way), in conjunction with implementation of treatment control best management practices, the proposed project would not contribute to violations of the water quality standard or objectives.

ENVIRONMENTAL ENGINEERING / AIR QUALITY - AIR QUALITY ASSESSMENT REPORT - June 2017

The proposed project is not considered a project of air quality concern under Title 40 Code of Federal Regulations (CFR) Part 93.123(b)(1), as it would not create a new or worsen an existing particulate matter violation. Carbon monoxide hotspots impacts would also be less than significant. The qualitative Mobile Source Air Toxic (MSAT) analysis determined that the proposed project would result in minimal air quality impacts in regards to diesel particulate matter and MSAT emissions. Therefore, there would be no significant impacts arising from the proposed project's operational condition.

ENVIRONMENTAL ENGINEERING / NOISE

This project is not a Type I project under Title 23 CFR Part 772.7; therefore, a noise study is not required. No adverse noise impacts from construction would occur because construction would be conducted in accordance with Caltrans Standard Specifications Section 14-8.02 (Noise Control) and applicable local noise standards.

Page 2 of 3 July 8, 2016

CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM Continuation Sheet

08—SBD—60	7.83/7.91	EA 08-1F2600	—N/A—
		PN 0814000194	
DistCoRte. (or Local Agency)	P.M./P.M.	E.A/Project No.	Federal-Aid Project No. (Local Project)/Project No.

Continued from page 2:

• ENVIRONMENTAL ENGINEERING / HAZARDOUS WASTE - PHASE I INITIAL SITE ASSESSMENT - February 2017

- Project area soils may include pesticides and herbicides associated with past agricultural activities this represents a Recognized Environmental Condition (REC).
- The areas adjoining State Route 60 represent a potential source of aerially deposited lead (ADL) this finding is considered a REC.
- Phase II Environmental Site Investigations will be conducted during the project's final design phase to determine if
 pesticide residues and ADL persist in soils at concentrations above health risk levels and/or hazardous waste levels
 and appropriate handling and disposal requirements.

PALEONTOLOGICAL RESOURCES

Due to the nature of the project description, and because the project site is previously disturbed and no work would occur within previously undisturbed soils, no paleontological studies are required for this project.

VISUAL RESOURCES TECHNICAL MEMORANDUM – December 2016

- The project would not adversely affect any "Designated Scenic Resource" as defined by CEQA, or by Caltrans
 policy.
- The proposed project would not impact a designated State scenic highway, or otherwise degrade the existing visual character of the project site.

In conjunction with the results of the above technical documentation, the Avoidance, Minimization, and/or Mitigation Measure(s) included in the Environmental Commitments Record (ECR), are expected to be implemented, as applicable.

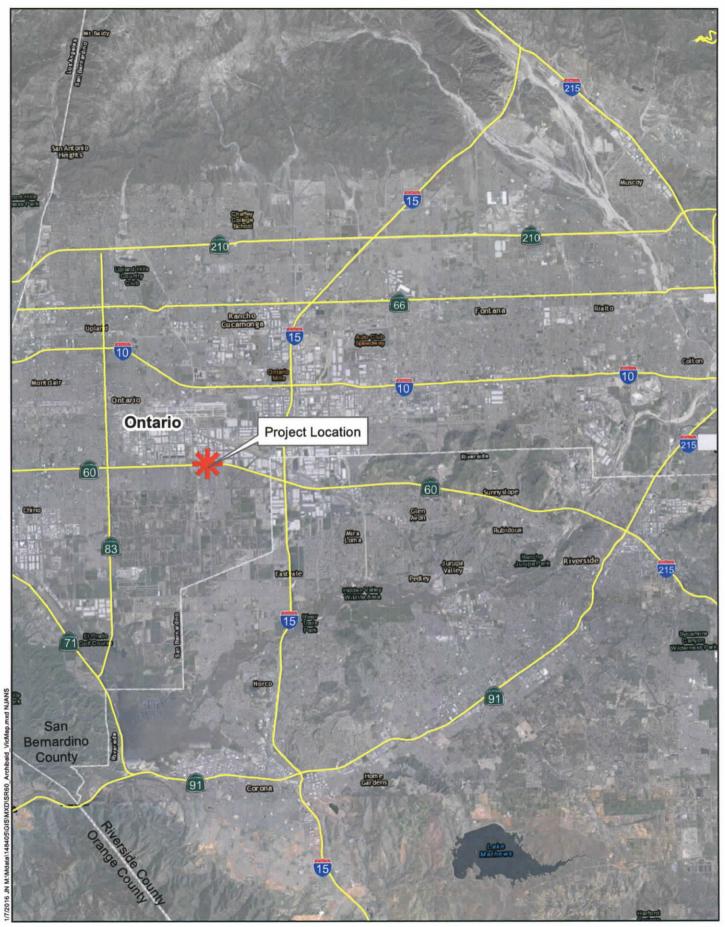
Changes to the project's scope of work, project limits, construction strategy and/or staging and storage requirements, and/or the timeframe of construction, as well as final design efforts not addressed during preliminary engineering (PA&ED), will require that the District's Division of Environmental Planning be notified in a timely manner, to determine if the CEQA compliance determination issued for this project remains valid and/or if an Environmental ReEvaluation is necessary. Updates to the original Technical Studies, or preparation of new Technical Studies may be required and/or a new CE/CE Determination Form may need to be completed, and/or an Environmental Document may need to be prepared and approved to document the project's compliance with all applicable NEPA and CEQA requirements.

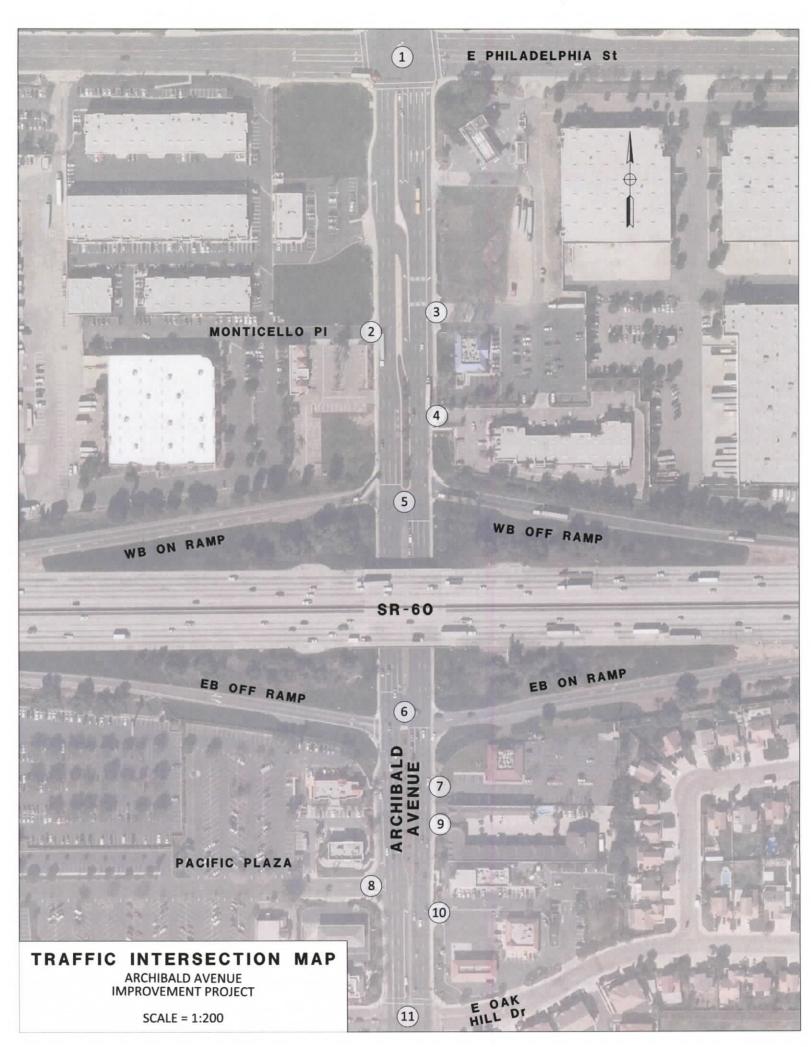
If an Environmental ReEvaluation is determined to be necessary, it would need to be completed before the associated scope of work (or project limits) change(s) being considered for the project were implemented. An Environmental Certification will be required at the end of the Plans, Specifications, and Estimates phase.

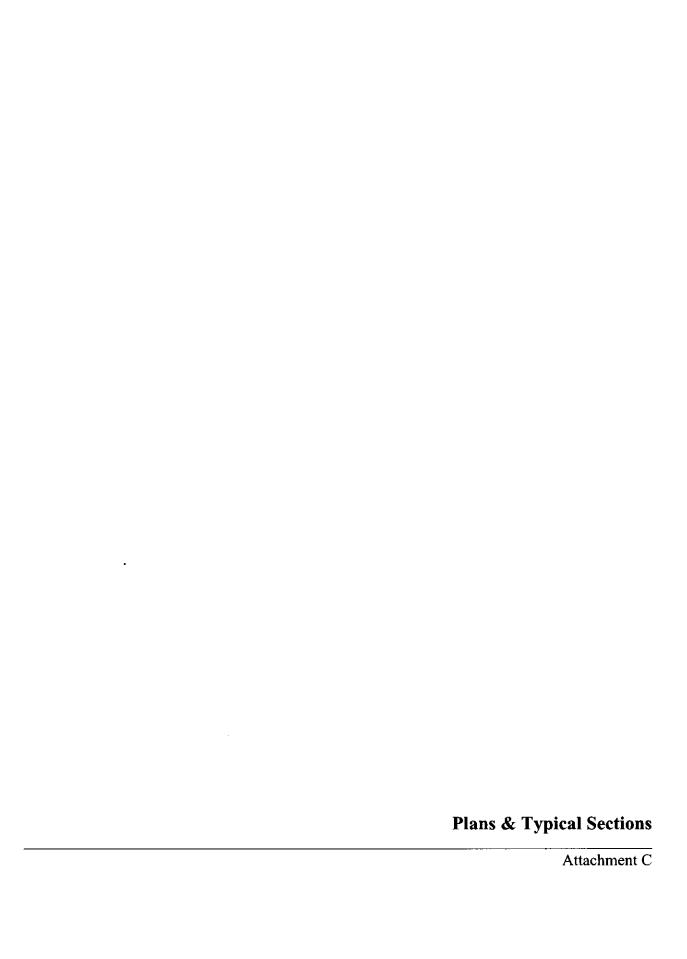
The District's Division of Environmental Planning also needs to be notified in a timely manner, if any of the aforementioned occurs during the Construction Phase, to determine if an Environmental Re-Evaluation (including possible updates to the original Technical Studies, or preparation of new Technical Studies) is required, and/or a new CE/CE Determination Form may need to be completed, and/or an Environmental Document may need to be prepared and approved to document the project's compliance with all applicable NEPA and CEQA requirements. If an Environmental ReEvaluation is determined to be necessary, and/or additional analysis is required, all such efforts would be required to be completed before the scope of work (or project limits) change(s) being considered for the related portion of the project were implemented. Construction work consistent with the project scope included in the Environmental Certification issued for the project could continue, however, advance coordination with the Senior Environmental Planner assigned to this project would be necessary. Completion of a Certificate of Environmental Compliance At Construction Contract Acceptance will be required following completion of construction of the project.

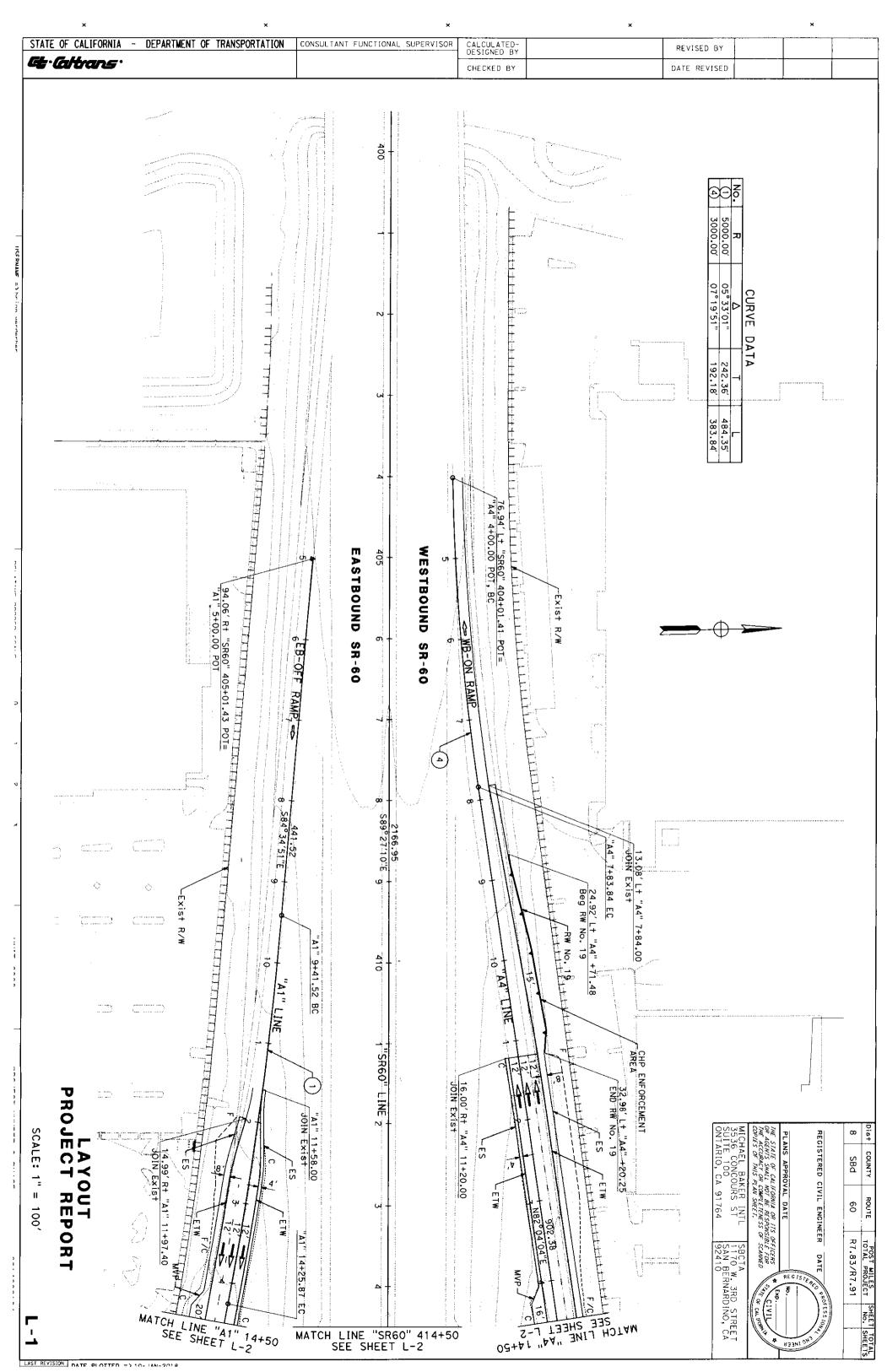
Page 3 of 3 July 8, 2016

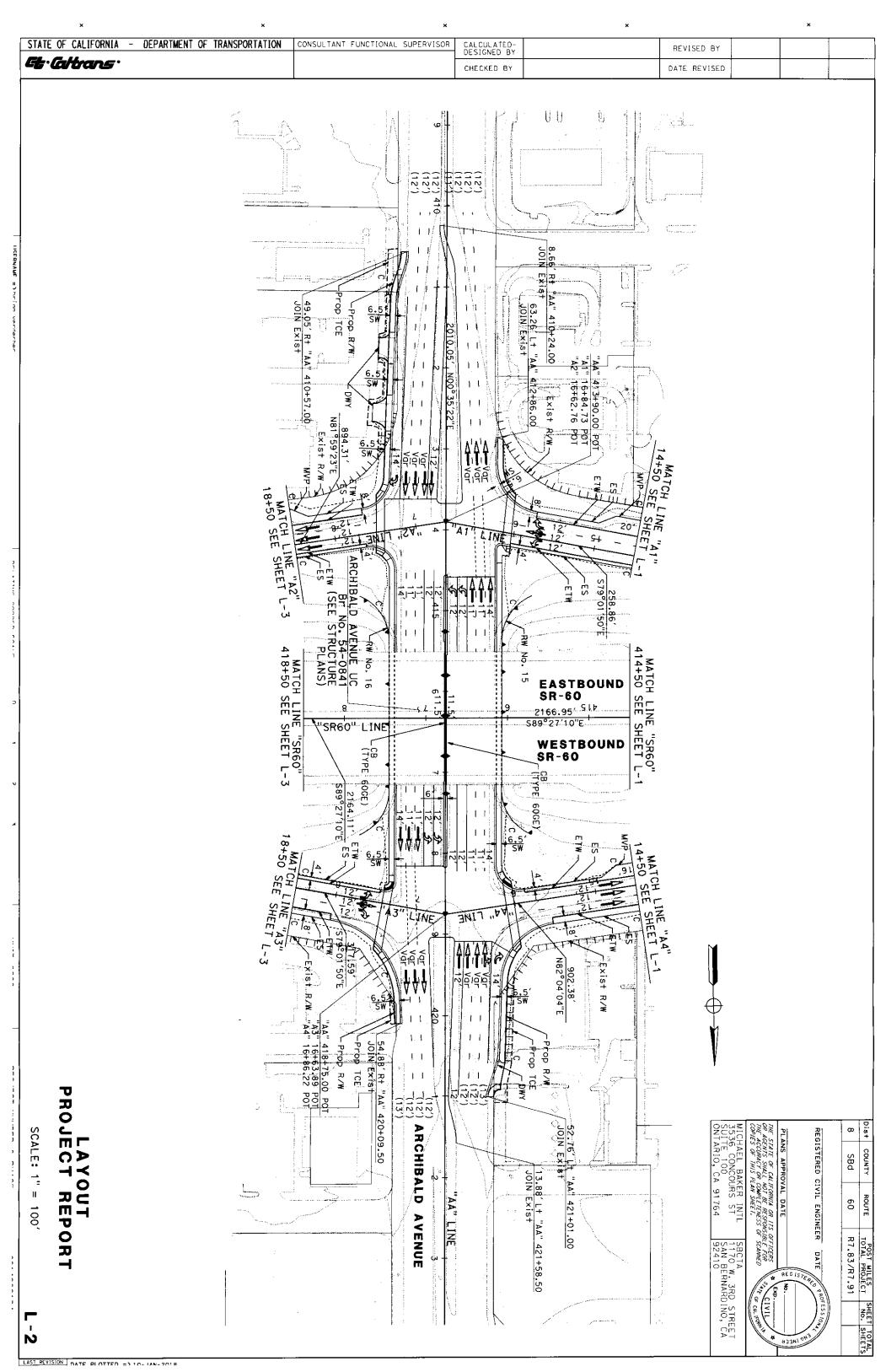


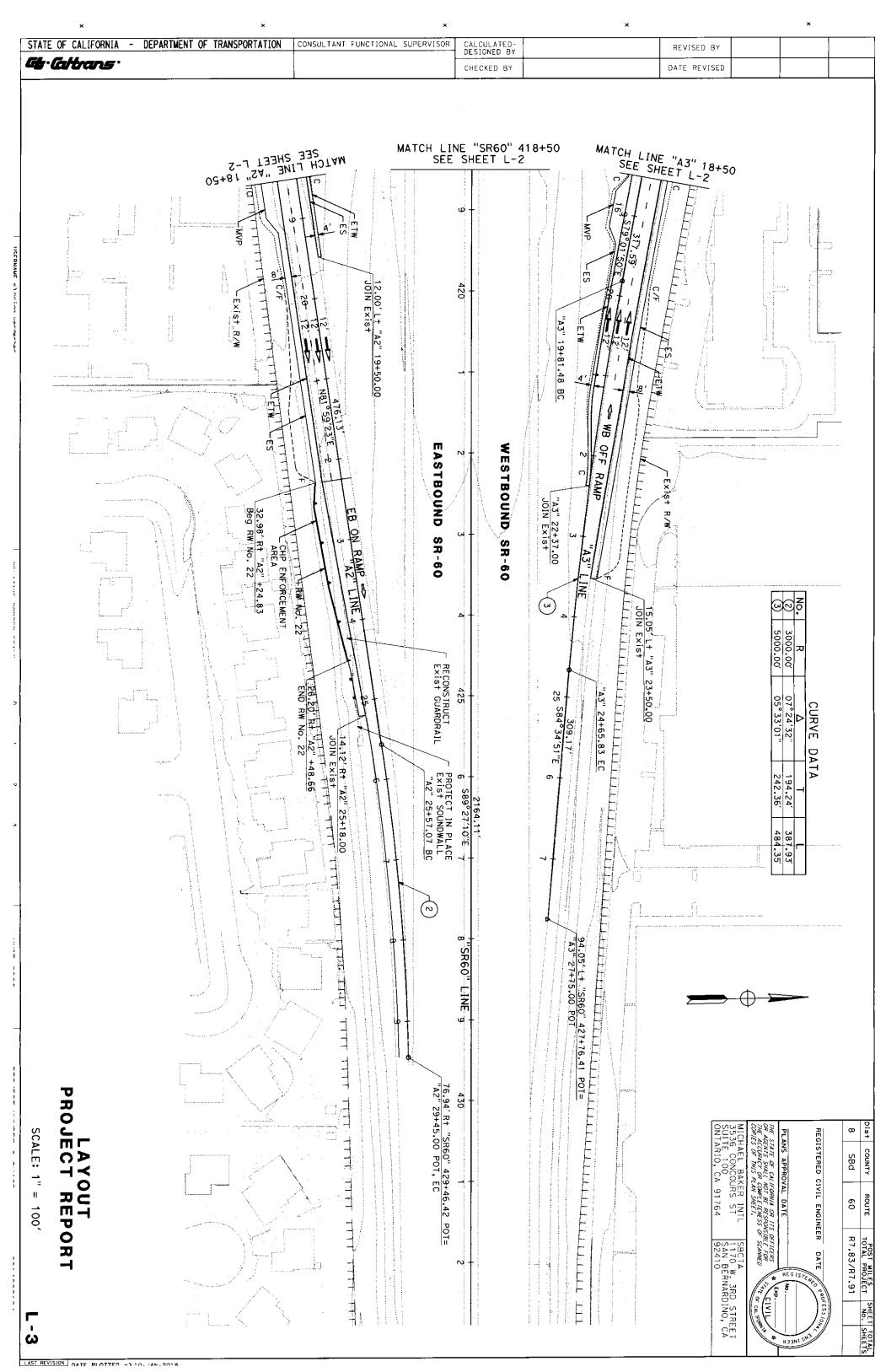


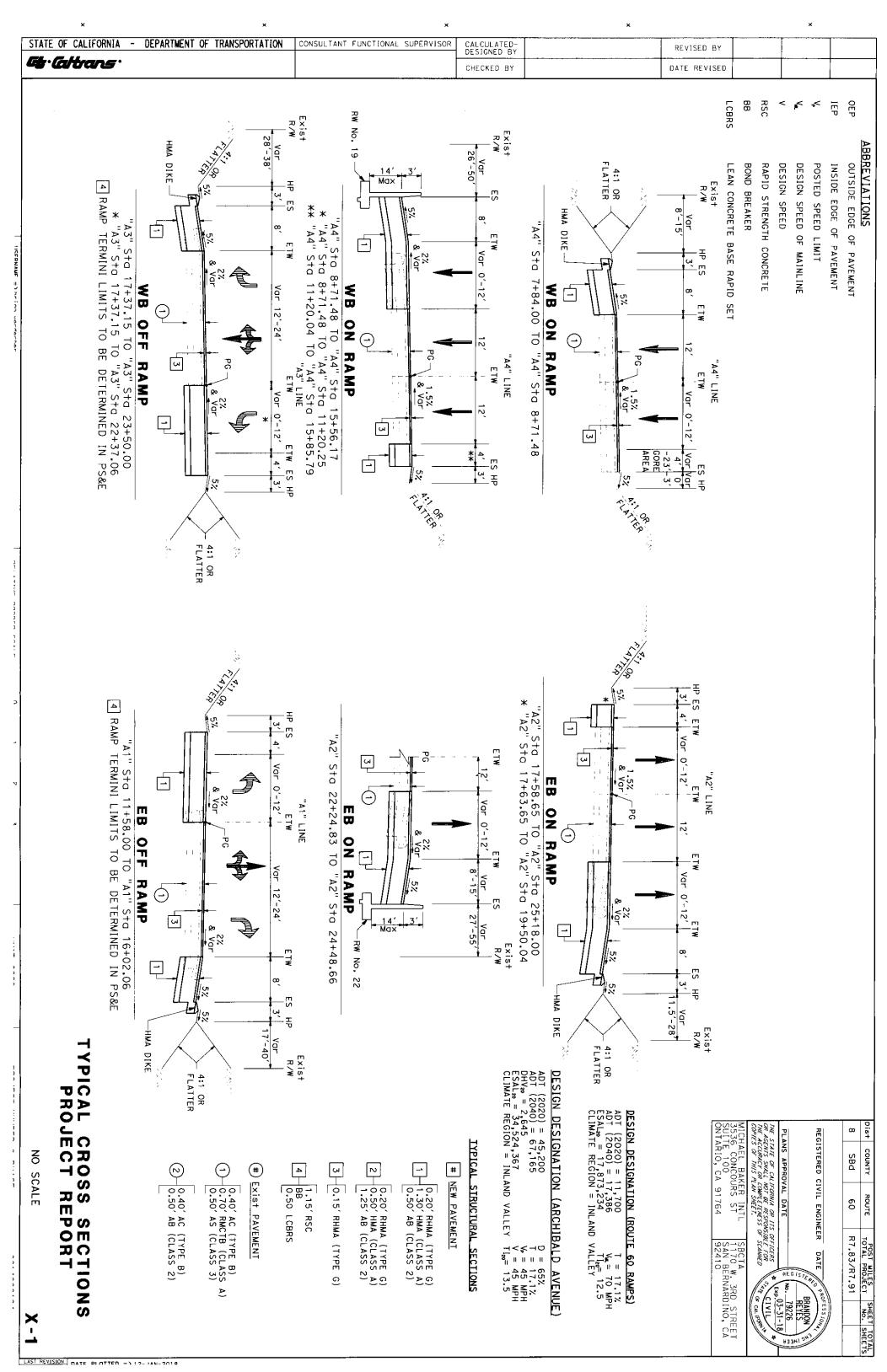


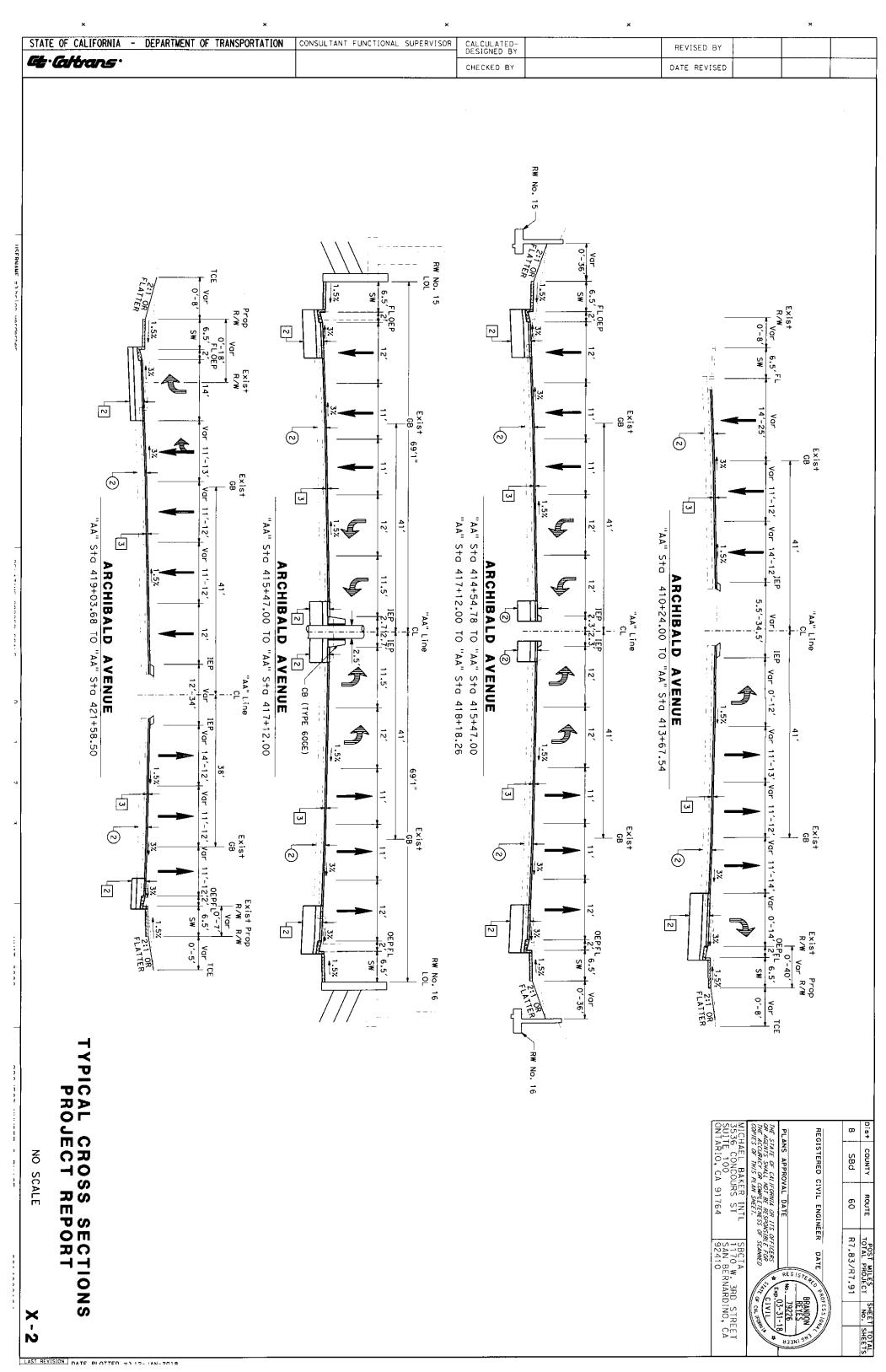






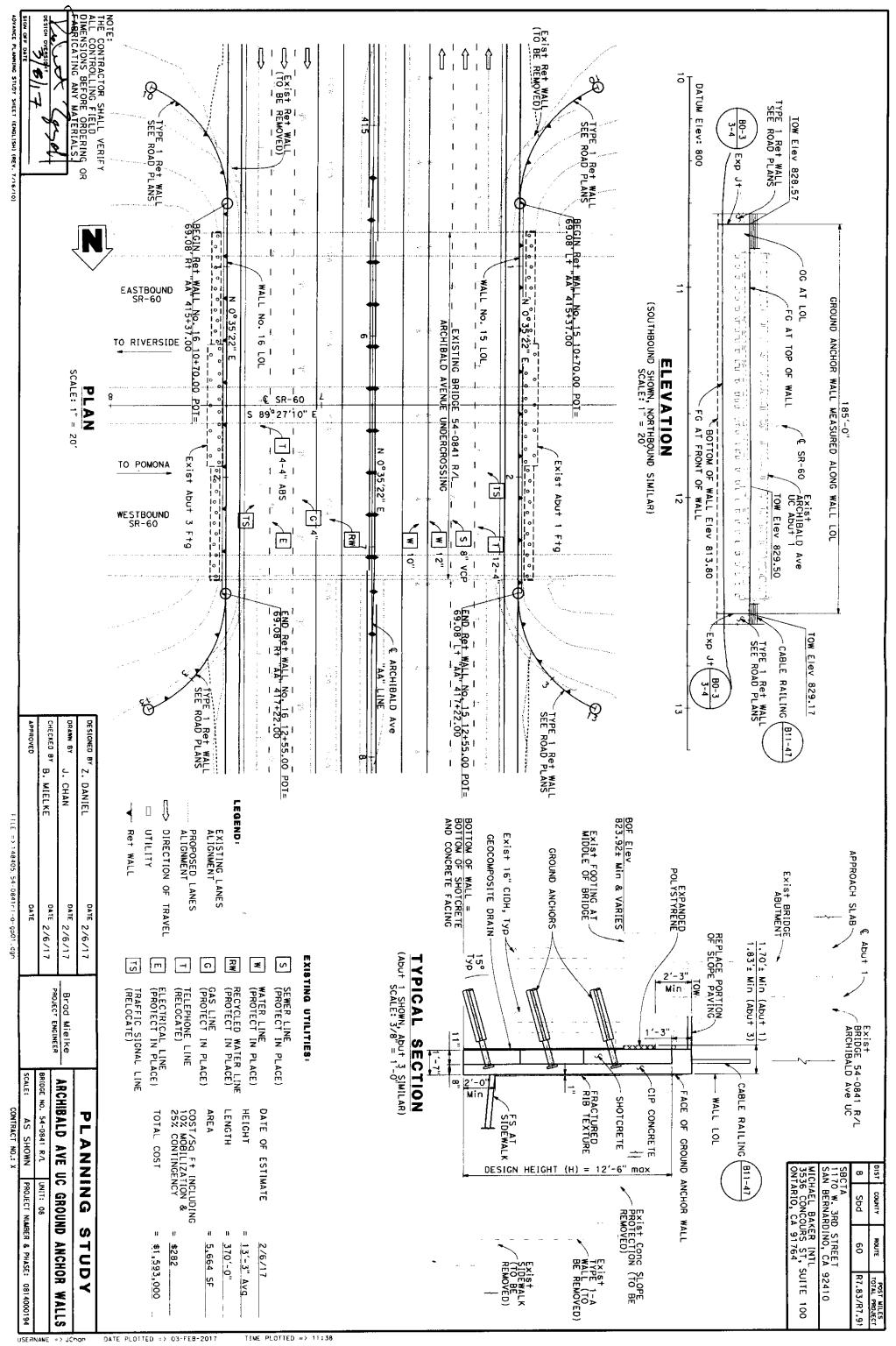








PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



Memorandum

Serious Drought. Help Save Water!

To:

JIM SUN

D8 Project Manager

Date:

March 8, 2017

File:

08-SBD-60, PM R7.83- R7.91

Archibald Avenue UC Bridge No. 54-0841 R/L

EA 08-1F260

ROBERT ZEZOFF

Senior Bridge Engineer

Office of Special Funded Projects & Structure Local Assistance Division of Engineering Services

Subject: Advanced Planning Study (APS) Review

The Office of Special Funded Projects has reviewed the Advanced Planning Study for the following structure:

Archibald Avenue UC Ground Anchor Wall #15

Signatures were placed on the Planning Study sheets.

If you have any questions, please call Robert Zezoff at (916) 227-9881.

c:

Chad Harden, Project Manager Michael Baker International Dennis Saylor, SB CTA Project Manager Sudhakar Vatti, Chief, Office of SFP and SLA File



Archibald Avenue Improvement Project Cost Estimate

Project ID: 0814000194

Type of Estimate: PA/ED

Program Code: 800.100 (HE11)
Project Limits: PM R7.83/PM R7.91

Description:

Add turning lanes along Archibald Avenue and widen ramps

Scope:

Pavement widening, ramp improvements, construct tieback walls

Alternative: Build (Tight Diamond)

	(Current Cost	Es	scalated Cost
ROADWAY ITEMS	\$	7,225,700	\$	8,132,589
STRUCTURE ITEMS	\$	1,593,000	\$	1,792,936
SUBTOTAL CONSTRUCTION COST	\$	8,818,700	\$	9,925,525
RIGHT OF WAY	\$	781,193	\$	781,193
TOTAL CAPITAL OUTLAY COST	\$	9,600,000	\$	10,707,000
PR/ED SUPPORT	\$	520,000	\$	520,000
PS&E SUPPORT	\$	410,000	\$	410,000
RIGHT OF WAY SUPPORT	\$	55,000	\$	55,000
CONSTRUCTION SUPPORT	\$	450,000	\$	450,000
TOTAL CAPITAL OUTLAY SUPPORT COST*	\$	1,435,000	\$	1,435,000
TOTAL PROJECT COST	\$	11,050,000	\$	12,150,000

If Project has been programmed enter Programmed Amount

Month / Year 1 / 2018

Date of Estimate (Month/Year)

8 / 2019

Estimated Date of Construction Start (Month/Year)

Number of Working Days

440 Working Days Month / Year

Estimated Mid-Point of Construction (Month/Year)

5 / 2020

Number of Plant Establishment Days

365 Days

Estimated Project Schedule

 PID Approval
 8/2016

 PA/ED Approval
 2/2018

 PS&E Approval
 4/2019

 RTL
 4/2019

 Begin Construction
 8/2019

Approved by Project Manager

Andrea Nieto	1/10/2018	909-884-8276
Project Manager	Date	Phone

I. ROADWAY ITEMS SUMMARY

	Section	Cost		
1	Earthwork	\$ 281,300		
2	Pavement Structural Section	\$ 1,758,600		
3	Drainage	\$ 486,900		
4	Specialty Items	\$ 681,600		
5	Environmental	\$ 173,000		
6	Traffic Items	\$ 1,189,100		
7	Detours	\$ 		
8	Minor Items	\$ 274,300		
9	Roadway Mobilization	\$ 242,300		
0	Supplemental Work	\$ 449,000		
11	State Furnished	\$ 425,200		
12	Contingencies	\$ 942,500		
13	Overhead	\$ 321,900		
	TOTAL ROADWAY ITEMS	\$ 7,225,700		

Estimate Prepared By :	Brian Verderber	1/10/2018	909-974-4931
	Name and Title	Date	Phone
Estimate Reviewed By	Brandon Reyes	1/10/2018	909-974-4967
	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
160102	Clearing & Grubbing	L\$	1	X	19,800.00	=	\$ 19,800
170101	Develop Water Supply	L\$	1	Х	10,000.00	=	\$ 10,000
190101	Roadway Excavation	CY	8,168	X	10.00	=	\$ 81,680
192037	Structure Excavation (Retaining Wall)	CY	1,541	х	37.00	=	\$ 57,017
193013	Structure Backfill (Retaining Wall)	CY	2,560	X	42.00	=	\$ 107,520
198001	Imported Borrow	CY	1,045	X	5.00	=	\$ 5,225

TOTAL EARTHWORK SECTION ITEMS	\$ 281,300	

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price (\$)		Cost
150771	Remove Asphalt Concrete Dike	LF	2,810	X	2.00	=	\$ 5,620
153240	Remove Concrete (Curb, Gutter & Sidewalk)	CY	440	x	270.00	=	\$ 118,800
260203	Class 2 Aggregate Base	CY	1,887	x	45.00	=	\$ 84,915
280015	Lean Concrete Base (Rapid Setting)	CY	404	X	400.00	=	\$ 161,600
360200	Bond Breaker	SQYD	2,422	х	3.00	=	\$ 7,266
390132	Hot Mix Asphalt (Type A)	TON	5,691	х	100.00	=	\$ 569,100
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON	2,688	X	100.00	=	\$ 268,800
394071	Place Hot Mix Asphalt Dike	ŁF	3,530	X	5.00	=	\$ 17,650
401055	Jointed Plain Concrete Pavement (RSC)	CY	928	x	350.00	=	\$ 324,800
731510	Minor Concrete (Curb, Gutter, Sidewalk and Driveway)	CY	400	X	500.00	=	\$ 200,000

TOTAL STRUCTURAL SECTION ITEMS \$ 1,758,600

3 of 11

SECTION 3: DRAINAGE

ltern code		Unit	Quantity		Unit Price (\$)		Cost
150204	Abandon Culvert	LF	48	X	20.00	=	\$ 960
150221	Abandon Inlet	EA	1	х	1,500.00	=	\$ 1,500
155003	Cap Inlet	EA	2	х	1,500.00	=	\$ 3,000
155232	Sand Backfill	CY	3	Х	90.00	=	\$ 288
650018	24" RCP Pipe	LF	475	X	110.00	=	\$ 52,250
650026	36" RCP	LF	5	х	140.00		\$ 630
723070	Rock Slope Protection (Type III and Method B)	CY	34	X	120.00	=	\$ 4,080
729011	Rock Slope Protection Fabric	SQYD	130	X	5.00	=	\$ 650
721420	Concrete (Ditch Lining)	ÇY	40	X	1,500.00	=	\$ 60,000
194001	Excavation Volume	CY	25	X	30.00		\$ 750
520101	Miscellaneous Iron and Steel	LB	6,790	х	5.00	=	\$ 33,950
510502	Minor Concrete (Minor Structure)	CY	41	х	2,000.00		\$ 82,000
XXXXXX	Infiltration Testing	LS	12	X	3,500.00	=	\$ 42,000
194001	Bioswale	CY	1,622	X	30.00		\$ 48,660
210600	Compost	SQFT	7,872	х	0.30		\$ 2,362
XXXXXX	Construction BMP	LS	1	X	120,000.00	=	\$ 120,000
710166	Remove OSD	EA	3	Х	2,000.00		\$ 6,000
150820	Remove Inlet	EA	2	X	3,000.00	=	\$ 6,000
150809	Remove Undersidewalk Drain	LF	45	x	25.00		\$ 1,125
390132	Hot Mixed Asphalt (Type A)	TON	3	x	200.00		\$ 564
394090	Place Hot Mixed Asphalt (Miscellaneous Area)	SQYD	18	x	100.00	=	\$ 1,800
650014	18" RCP Undersidewalk Drain	LF	122	X	150.00	=	\$ 18,300

TOTAL DRAINAGE ITEMS \$ 486,900

SECTION 4: SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price (\$)		Cost
070012	Progress Schedule (Critical Path Method)	LS	1	Х	10,000.00	=	\$ 10,000
510060	Structural Concrete (Retaining Wall)	CY	1,100	х	450.00	=	\$ 495,000
520103	Bar Reinf. Steel (Retaining Wall)	LB	50,000	х	1.15	=	\$ 57,500
832005	Midwest Guardrail System	LF	500	х	30.00	=	\$ 15,000
839521	Cable Railing	LF	300	х	30.00	=	\$ 9,000
839585	Alternative Flared Terminal System	EA	2	х	2,800.00	=	\$ 5,600
839607	Crash Cushion	EA	2	х	25,000.00	=	\$ 50,000
839742	Concrete Barrier (Type 60)	LF	395	x	100.00	=	\$ 39,500

TOTAL SPECIALTY ITEMS \$ 681,600

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code	Unit	Quantity		Unit Price (\$) Subto	otal	Envi	Cost ronmental	\$ <u>-</u>
5B - LANDSCAPE AND IRRIGATION								
Item code	Unit	Quantity		Unit Price (\$)			Cost	
200001 Highway Planting	LS	1	х	50,000.00	=	\$	50,000	
204099 Plant Establishment Work	LS	1	X	25,000.00	=	\$	25,000	
208000 Irrigation System	LS	1	x	25,000.00	=	\$	25,000	
			S	Subtotal Landso	ар	e and	d Irrigation	\$ 100,000
5C - NPDES								
Item code	Unit	Quantity		Unit Price (\$)			Cost	
074032 Temporary Concrete Washout Facility	EA		x		=	\$	-	
Total Section 1-8	\$	2,057,300 Subtotal N	VPD	3.5% ES (Without S	= upp	\$ leme	72,006 ental Work)	\$ 73,000
*Applies to all SWPPPs and those WPCPs with sediment control or soil	stabilization BI	MPs.						

^{**}Applies to both SWPPPs and WPCP projects.

TOTAL ENVIRONMENTAL \$ 173,000

^{***} Applies only to project with SWPPPs.

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical									
Item code		Unit	Quantity		Unit Price (\$)			Cost	
	sting Traffic Management nents During Construction	LS	1	x	5,000.00	=	\$	5,000	
860810 Inductive Lo	_	EA	20	Х	500.00	=	\$	10,000	
860460 Lighting & S	ign Illumination	LŞ	1	х	25,000.00	=	\$	25,000	
8607XX Interconnect		LS	1	х	5,000.00	=	\$	5,000	
860250 Signals & Li	ghting	LŞ	2	Х	250,000.00	=	\$	500,000	
861101 Ramp Meter	ing System (Location 1&2)	LS	2	X	100,000.00	=	\$	200,000	
				Subtotal Traffic Electrical					\$ 745,000
6B - Traffic Signing a	and Striping								
Item code		Unit	Quantity		Unit Price (\$)			Cost	
120090 Construction	Area Signs	LS	1	х	25,000.00	=	\$	25,000	
566011 Roadside Si	-	EA	25	X	270.00	=	\$	6,750	
566012 Roadside Si		EA	10	х	630.00	=	\$	6,300	
84XXXX Permanent I	Pavement Delineation	LS	1	X	50,000.00	=	\$	50,000	
				Su	btotal Traffic Si	gnii	ng ai	nd Striping	\$ 88,050
6C - Stage Construct	tion and Traffic Handling								
Item code		Unit	Quantity		Unit Price (\$)			Cost	
120100 Traffic Cont	rol Svstem	LS	1	х	250,000.00	=	\$	250,000	
120165 Channelizer	-	EA	250	х	40.00	=	\$	10,000	
	angeable Message Signs	EA	2	х	5,000.00	=	\$	10,000	
129000 Temporary I	-	LF	5,000	х	15.00	=	\$	75,000	
129100 Temp. Cras		ĒA	50	Х		=	\$	10,000	
129099A Traffic Plast		EA	10	Х		=	\$	1,000	
			ubtotal Sta	ge	Construction ar	nd <u>T</u>	raffi	c Handling	\$ 356,000

1,189,100

TOTAL TRAFFIC ITEMS

SECTION 7: DETOURS

Include constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost	
			TOTAL DET		\$ -
			SUBTOTAL SE	CTIONS 1-7	\$ 4,570,500

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items							
ADA Items			1.0%	\$	45,705		
8B - Bike Path Items							
Bike Path Items			0.0%	\$	-		
8C - Other Minor Items							
Other Minor Items		_	5.0%	\$	228,525		
Total of Section 1-7	\$ 4,570,500	x	6.0%	= \$	274,230		
			TOTAL	MINOR IT	EMS	274	200

SECTIONS 9: MOBILIZATION

item code

999990 Total Section 1-8 \$ 4,844,800 x 5% = \$ 242,240

TOTAL MOBILIZATION	\$ 242,300

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price (\$)		Cost
066063	Traffic Management Plan - Public Information	LS	1	х	32,250.00	=	\$ 32,250
066090	Maintain Traffic	LS	1	X	25,000.00	=	\$ 25,000
066098	Partnering	LS	1	X	35,000.00	=	\$ 35,000
066100	Dispute Review Board	LŞ	1	X	16,500.00	=	\$ 16,500
066610	Partnering	LS	1	X	20,000.00	=	\$ 20,000
066921	Dispute Resolution Advisor	LS	1	X	5,000.00	=	\$ 5,000

Cost of NPDES Supplemental Work specified in Section 5C = \$ 73,000

Total Section 1-3 \$ 4,844,800 5% = \$ 242,240

TOTAL SUPPLEMENTAL WORK \$ 449,000

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price (\$)		Cost
066105	RE Office	LS	1	X	158,311.11	=	\$158,312
066062A	COZEEP Expenses	LS	1	Х	85,500.00	=	\$85,500
066004	Miscellaneos State Furnished Materials	LS	1	X	100,000.00	=	\$100,000
869001	Miscellaneous Electrical	LS	1	X	30,000.00	=	\$30,000
066916	Annual Construction General Permit Fee	LS	2	x	1,432.00		\$2,864
	Total Section 1-8	\$	4,844,800		1%	=	\$ 48,448

TOTAL STATE FURNISHED	\$425,200

SECTION 12: TIME-RELATED OVERHEAD

Estiamted Time-Releated Overhead (TRO) Percentage (0% to 10%) = 5%

Item code	Unit	Quantity	Unit Price (\$)		Cost	
		Total	of All Contract Items Only	\$	6,437,800	
			Total Project Cost	\$	7,554,300	
070018 Time-Related Overhead	WD	440	X 731.5909091	=	\$321,900	
			TOTAL TIME-RELA	TED (OVERHEAD	\$321,900

SECTION 13: CONTINGENCY

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

Total Section 1-11 \$ 6,283,200 x 15% = \$942,480

TOTAL CONTINGENCY \$942,500

II. STRUCTURE ITEMS

Bridge 1

DATE OF ESTIMATE Bridge Name Bridge Number Structure Type	02/06/17 Ground Anchor Walls 54-0841 R/L Tie Back Walls (Both) 13.25 LF	00/00/00 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	00/00/00 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Width (Feet) [out to out] Total Bridge Length (Feet)	370.00 LF	0.00 LF 0.00 LF	0.00 LF 0.00 LF
Total Area (Square Feet)	5664 SQFT	0 SQFT	0 SQFT
Structure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	N/A	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	\$282.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$1,593,000.00	\$0.00	\$0.00
Total Length (Feet)	0.00 LF	0.00 LF	0.00 LF

TOTAL COST OF BRIDGES	\$1,593,000.00
TOTAL COST OF BUILDINGS	\$0.00

TOTAL COST OF STRUCTURES ¹	\$1,593,000.00

Estimate Prepared By:

Per guidance, see approved APS of this attachment XXXXXXXXXXXXXXXXXXXX —— Division of Structures

Date

¹Structure's Estimate includes Overhead and Mobilization. Add more sheets if needed. Call them 9a, 9b, 9c, ..., etc

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, A2) SB-1210	\$ \$	499,408 0
B)	Acquisition of Offsite Mitigation	\$	0
C)	C1) Utility Relocation (State Share) C2) Potholing (Design Phase)	\$ \$	100,500 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
1)	Condemnation Settlements 20% (Items G & H applied to items A + B)	\$	80,785
J)	Design Appreciation Factor 0%	\$	0
K)	Utility Relocation (Construction Cost)	\$	100,500
L)	TOTAL RIGHT OF WAY ESTIM	ATE	\$781,193
	(Excluding Item #8 - Hazardous Waste)		
M)	TOTAL R/W ESTIMATE: Esca	alated	\$781,193
N)	Right of Way Support	\$	300,000

Support Cost	Andrea Nieto	909-884-8276
Estimate Prepared By	Project Coordinator ¹	Phone
Utility Estimate	Marie Marston	714-699-9060
Prepared By	Utiliy Coordinator ²	Phone
R/W Acquistion	Maile Kop	562-304-2000
Estimate Prepared By	Right of Way Estimator ³	Phone

¹ When estimate has Support Costs only ² When estimate has Utility Relocation

³ When R/W Acquisition is required



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DATA SHEET FOR LOCAL PUBLIC AGENCIES (Form #)

EXHIBIT 17-EX-21 (NEW 12/07) Page 1 of 6

					
То:	Rebecca Guirado District Division Chief Division of Right of Way	Date:	4/25/2017		
Attn:	Lawrence Kelly District Branch Chief R/W Local Programs	Co. Expense	SBd Authorization	Rte.	60 1F2600
Subject:	RIGHT OF WAY DATA SHEET - LOCAL PUBLIC	C AGENCI	ES		
Project Des	scription;				
]	Right of way necessary for the subject project will be the Fransportation Authority (SBCTA).	responsibili	ty of San Bern	ardino (County
,	The information in this data sheet was developed by Ove with Michael Baker International, Inc.	rland, Pacif	ïc & Cutler, Ir	ic. in co	llaboration
I.	Right of Way Engineering				
	Will Right of Way Engineering be required for this p	project?			
	 No □ Yes ☒ (If yes, submit a copy of the Right of We checklist for Locally Funded Projects. This checitems.) 	ay Engineeri klist include	ing Surveys and s, but is not lim	Mappir	ng Services the following
	 Hard copy (base map) Appraisal map Acquisition documents Property Transfer Documents R/W Record Map Record of Survey 			,	
ii.	Engineering Surveys				
I	. Is any surveying or photogrammetric mapping requir No \(\sigma\) Yes \(\sigma\) if yes, complete the following:	ed?			
	Photogrammetric mapping was completed during the Caltrans. In addition, the photogrammetric mapping Photogrammetric mapping and engineering surveying	g has been	through the A	BC Cali	trans process.

2. Datum Requirements

phase.

Yes Project will adhere to the following criteria:

- Horizontal datum policy is NAD 83, CA HPGN, EPOCH 1991.35 and English system of units and measures.
- Vertical datum policy is NAVD 88.
- Units US Survey Feet.

3. Will land survey monument perpetuation be	scoped into the pre	oject, if required?	
Yes No Provide explanation on additional	page.		
III. Parcel Information (Land and Improvements,	2		
Are there any property rights required within the	proposed project l	imits?	
No ☐ Yes ☒ (Complete the following.)			
	Part Take	Full Take	Estimate \$
A. Number of Vacant Land Parcels	0	0	\$0
B. Number of Single Family Residential Units	0	0	\$0
C. Number of Multifamily Residential Units	0	0	\$0
D. Number of Commercial/Industrial Parcels	5	0	\$403,927
E. Number of Farm/Agricultural Parcels	0	0	\$0
F. Permanent and/or Temporary Easements	0	0	\$0
G. Other Parcels (define in "Remarks" section)	0	0	\$0
Totals* * Costs include 20% contingency & escalated for 2 years :	5 at 3% per year.	0	\$403,927

Provide a general description of the right of way and excess lands required (zoning, use, improvements, critical, or sensitive parcels, etc.).

This project requires approximately 4,250 square feet of Fee Acquisition, 850 square feet of Permanent Easement (PE) and 3,470 square feet of Temporary Construction Easement (TCE). It affects a total of five parcels, commercial and industrial zoned properties; one parcel is occupied by a bakery located at the northwest quadrant, one parcel is occupied by a paint company located at the northeast quadrant, and three parcels occupied by restaurants and an inn located at the southeast quadrant.

2421 S Archibald (Denny's Restaurant) – Proposed driveway is within Caltrans access control. Assumed mandatory design exception can be filed. Assumed potential damages to the business due to temporary loss of use of a portion of the driveway during construction.

2425 S Archibald (America's Best Value Inn) - Assumed similar monument sign configuration and size cannot be replaced as currently situated within the Right of Way in the after condition. Assumed a different type of sign may be necessary in order to replace the sign within the remaining Right of Way. Assumed potential damages to the business due to temporary loss of use of a portion of the driveway during construction (loss of goodwill). Costs to Cure include a new monument sign configuration/type to remedy the sign placement issue in the after condition. Costs also include an allowance for replacement windows for the front units adjacent to the street; this allowance is intended to remedy any impacts to the business due to any potential sound/noise which may result from bringing the street closer to the front

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DATA SHEET FOR LOCAL PUBLIC AGENCIES (Form #)

EXHIBIT 17-EX-21 (NEW 12/07) Page 3 of 6

units. Construction of the proposed driveway modification must include the relocation of current park drain.

2455 S Archibald Ave (McDonalds Restaurant) – Assumed ADA ramp is reconstructed by the project. Assumed drive-through remains operational during construction without obstruction. Assumed damages to the business due to temporary loss of ADA ramp during construction and various construction activities.

IV. Dedications Are there any property rights which have been acquired, or anticipate will be acquired, through the "dedication" process for the Project? No 🔯 Yes [(Complete the following.) Number of dedicated parcels _____0 Have the dedication parcel(s) been accepted by the municipality involved? There are no dedications anticipated by surrounding developers / property owners. V. Excess Lands/Relinquishments Are there Caltrans property rights which may become excess lands or potential relinquishment areas? No 🔯 Yes [(Provide an explanation on additional page.) VI. Relocation Information Are relocation displacements anticipated? No 🔯 Yes (Complete the Following.) A. Number of Single Family Residential Units Estimated RAP Payments N/A \$0 B. Number of Multifamily Residential Units Estimated RAP Payments N/A \$0 C. Number of Business/Nonprofit **Estimated RAP Payments** N/A \$0 D. Number of Farms Estimated RAP Payments N/A \$0 E. Other (define in the "Remarks" section) **Estimated RAP Payments** N/A \$0 Total N/A \$0

No property relocation is anticipated for this project.

V

VII.	Utility Relocation Infor	mation .			
Į	Do you anticipate any util	ity facilities or utility rights of w	ny to be affected?		
	No ☐ Yes	(Complete the following.)			
			Estimate	ed Relocation	Expense
	Facility	Owner	State Obligation	Local Obligation	Utility Owner Obligation
A		Charter Communications	\$0	TBD	TBD
В	Electric	Southern California Edison (SCE) \$0	TBD	TBD
C	Telecommunication	Frontier Communication	\$0	TBD	TBD
D	Water	City of Ontario	\$0	TBD	TBD
<u> </u>	Teast		-		
 	Totals		\$0*	\$100,500	\$100,500
<u> </u>	Number of Facilities	4 timated total financial obligation by the 5			
	No Yes Describe the railroad facility				
	Owner's Name A.	Transverse Cr	ossing Lor	igitudinal Enc	roachment
-	В.				
	C.				· · · · · · · ·
	D.				
IX.	ontracts, or grade separat Clearance Information are there improvements the No \square Yes	nat require clearance? [(Complete the following.) res to be Demolished	oads. Are grade cros i maintenance agreem () \$0	sings that req ents involved	nire services
	Λ. Number of structu	res to be Demotished			

Demolition of structures within proposed right of way is not anticipated as part of this project.

Χ.	<u>Hazard</u>	ous.	Material:	s/Waste

Are there any site(s) and/or improveme	ents(s) in the Project Limits that are known to contain
hazardous materials? None 🏻	Yes [(Explain in the "Remarks" section.)
Are there any site(s) and or improveme	nt(s) in the Project Limits that are suspected to contain
hazardous waste? None Yes X	(Explain in the "Remarks" section.)

- * Refer to the attached Phase I Initial Site Assessment prepared by Stantec Consulting Services Inc. dated 12/9/16 for a detailed description of the RECs identified below:
 - Stantec identified the SR60, adjoining the Project Area, as a potential source of aerially deposited lead (ADL) and recommends shallow soil sampling in the Project Area with samples analyzed for total and soluble lead.
 - The historical agricultural use and current landscaping identified within the Project Area is considered a REC due to the potential for pesticide residues to persist in soils at concentrations above health risk levels and/or hazardous waste levels. If there is any export soil for this project, Stantec recommends shallow soil sampling in the Project Area and analysis for organochlorine pesticides and arsenic.

XI. Project Scheduling

	Proposed lead time	Completion Date
* Preliminary Engineering Surveys	I months	10/2016
* R/W Engineering Submittals	18 months	06/2018
* R/W Appraisals/Acquisition	14 months	10/2018
Proposed Environmental Clearance	2 months	08/2018
Proposed R/W Certification	1 months	12/2018

XII. Proposed Funding

	Local	State	Federal	Other Utility Owner Obligation
Acquisition	\$403,927	\$0	\$0	<u> </u>
Utilities	\$100,500	\$0	\$0	\$100,500
Relocation Assistance Program	\$0	\$0	\$0	
Loss of Business Goodwill	\$95,481	\$0	\$0	
Structures Testing + Demolition	\$0	\$0	\$0	
Condemnation	\$80,785	\$0	\$0	
R/W Support Cost*	\$300,000	\$0	\$0	
TOTAL	\$980,693	\$0	\$0	1
COMBINED TOTAL		\$1,081,1	93	

The proposed funding allocation above is conceptual based upon preliminary discussions with the project team. Condemnation costs based on 20% of the acquisition costs. Acquisition, Loss of Business Goodwill and Condemnation costs include 20% contingency & escalated for 2 years at 3% per year.

^{*} R/W support costs provided by SBCTA.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DATA SHEET FOR LOCAL PUBLIC AGENCIES (Form #)

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XIII. Remarks

Regarding Hazardous Material in Section X above, please refer to the attached Phase I Initial Site Assessment prepared by Stantec Consulting Services Inc. dated 12/9/16 for a detailed description of the RECs identified below:

- Stantec identified the SR60, adjoining the Project Area, as a potential source of aerially deposited lead (ADL) and recommends shallow soil sampling in the Project Area with samples analyzed for total and soluble lead.
- The historical agricultural use and current landscaping identified within the Project Area is considered a REC due to the potential for pesticide residues to persist in soils at concentrations above health risk levels and/or hazardous waste levels. If there is any export soil for this project, Stantee recommends shallow soil sampling in the Project Area and analysis for organochlorine pesticides and arsenic.

Project Sponsor Consultant Prepared by:	Project Sponsor Reviewed and Approved by:
Ned is that	Maul 12
Maile Kop	Paula Beauchamp
Overland, Pacific & Cutler, Inc.	SBCTA
4/25/2017	4/25/2017
Date	Date
Caltrans	
Reviewed and approved based on information	provided to date:
to Mile	5/-17
Alin Allilo	5/10/.7

Date

Steve McClaury
Associate Right of Way Agent
Department of Transportation
District 8 – San Bernardino Office



For DTM	use		Ca	Itrans Dist	trict 8 (Rivers	ide & San Berna	ardino)		
Developer			Т	MP Reques	st form & devel	oped TMP (ver. Se	p. 2014)		
Transportation	Manageme	nt Plan (TMP)	Data Shee			&E considering Dated LRCs expires	TM's requirements. The valid	lity of this	TMP expires
		The T	MP Data S	heet includes	background & sign	nature, TMP element	s & TMP estimate		
			Requ	ester: Con	nplete section (A) & (B) of this pag	e only		
	Reque	ester: Submit s	separate re	quest for each			cells with yellow background ON	NLY)	
					Please	e note that			
		Project sha	ll not be c	ertified with	out the approval & the TMP by		irement Charts (LRCs)		
(A) Requeste	er's info.	12 1 7 7	200						
1-Date of reques	st		4/:	24/2017		2-Department		Cons	truction
3-Full name			Mar	ie Marston		4- Phone No.	714-966-9	9060	
5-E-mail address		mma		lworksengine	ers.com				
6-Project Manager				ifih Achy					
7-Project Manager	's E-mail		ratih.ach	y@dot.ca.gov	<u>/</u>				
(B) Project in	formation				1-EA#/ID#	1F26	50 / 0814000194		
2-County/Route			San Bern	ardino / SR-6	The second of the second of	3-phase/subobject	PA/ED		
4-Post mile (Fro	m-To)		Juli Delli	aramo / Bit o	R7.83 - R		TAYED		
5-Short descriptio		S	tate Route	60 Archibald		ff ramps (4) and Str	eet Improvements		
Construction perio				-					
6-Estimated start	date	8/9/19	8-# of work	king days	450				
7-Estimated end of	late	05/30/21	9-Estimated	Proj. cost	\$ 9,000,000				
	1	0- Requester: (Jse section (H), in the butte	om of the page, to a	dd any otehr information	on that helps developing the TMP		
11- Documents							eg/pdf format to your E-mail		
12- If hard copies	are requested	Send or bring th	em to the D	TM office locate	ed on the south side	of 11th. Floor, Attn: A	Afaneh.	Questions:	all 383-6262
				13- E-ma	il the request to: al_	afaneh@dot.ca.gov			
Following i	s for DTM u	ise >>>>>	·>>>>	Developer: Fil	ll info in green cells o	only			
C) BACKGROUN	INFORMATI	ON		Date request	received		Job assigned to		
# of working days		450	1						
Estimated Project	cost (\$)	9,000,000	Per E-mail (dated	01/31/17				
TMP estimate(\$)		\$167,750	Equal to	1.86%	Of the project cost				
					D	1		Inne	-Lia
D) IMPACT	High	Medium	Low	NA			impact/mitigation): One lane clo ection on Archibald Avenue for th		
State Hwy.			X				sure and lane shift to be used for		
Local road Ramp/connector		X			westbound off-rai		sare and lane sime to be used to	Tire custo	ound and
Kamp/connector		^			Westerday on Tax	inp construction.			
E) Developer: Co	mnlete the in	ofo							
Developed by	improce the ii	Marie Marston		Origin	al signed by:	1	Marie Marston	Date	4/24/2017
Title	TMP Manage	Contract Con							, , , , , , , , , , , , , , , , , , , ,
E-mail		civilworksengine	ers.com	1					
Phone/Fax	714-966-906			1					
F) Approved by				Origin	al signed by:		Al Afaneh	Date	
Name:	Al Afaneh								
Title	District Traff	fic Manager							
E-mail	al_k_afaneh(1					
Phone/Fax	383 6262/38	3 1068							
G) District's i	nfo:								
Department of T	ransportation								
District:	8								
Address:		h St., San Bern	ardino, Ca.	, 92401-1400	0				
Operations, DTM,	MS >>>>	1150							
H) Remarks:									
	1								
1	I								

TMP Elements **EA #/ID#** 1F260 / 0814000194 4/24/2017 Date Note: An X in the check box means you need to include this in the project unless staging, material, or work hour changes eliminate the need for the item. A? in the box means TMP anticipates this - please check into this. A blank box means the item is not needed at this time based on the information received. Public Information/Public Awareness Campaign (PAC) BEES 066063 (Traffic Management Plan-Public Information). Cost to be reduced by Public Affairs (PA) and Construction Liaison (CL) only. Show under State Furnished as the total of PA+CL. 1.1 Include Rideshare information in PA/CL project material to encourage vehicles reduction in work area Brochures and Mailers 1.2 10,000 1.3 Media Releases (& minority media sources) 1,250 1.4 Paid Advertising Public Information Canter/Kiosk 1.5 Public Meetings/PAC Mtgs./Speakers Bureau (show cost also for room 10,000 1.6 Hand deliver notices to vicinity 1.7 1,000 1.8 Broadcast fax service 1.9 Telephone Hotline OR 1-800-COMMUTE (The telephone number is shown on CS-Info signs) -1.10 Visual Information (videos, slide shows, etc.) 1.11 Local cable TV and News 1.12 1.13 Traveller Information System (Internet) Internet, E-mail 1.14 10,000 Notification to targeted groups: 1.15 Revised Transit Schedules/maps Rideshare organizations schools organizations representing people with disabilities bicycle organizations Include PA/CL/Consultant resources in WPS 1.16 1.17 Commercial traffic reporters/feeds - e.g. brief Traffic Information people (TIP) group 1.18 Insert SSP's "A representative of the Contractor, at Superintendent level or higher, and authorized to commit the Contractor, shall attend and participate in all Public Awareness Campaign meetings. Time commitment for the meeting(s) varies from two to four hours per month." 1.19 Others Section 1 Total 32,250 Traveller Information Strategies Project team needs to coordinate with Traffic Design! Existing Electronic Message Signs (Stationary) - list locations. See Note 5 2.1 New Installation (Stationary) - BEES 860532 CHANGEABLE MESSAGE SIGN SYSTEM - list locations. See Note 5 Portable Changeable Message Signs (PCMS).BEES 128650 2.2 50,000 These PCMS advise motorists to divert at remote advance decision points - outside the usual work limits. Unlike stationary CMS, you are allowed to use them for advance motorist information - e.g. a week ahead. Their placement may need to be cleared environmentally so that they can be included in plans and SSP later. They may be in addition to Traffic Design's PCMS for regular traffic handling in and next to a work area.

					2: 92	Li ye	
TMP Elem	ents	EA #/ID#	1F260 /	0814000194	Date	4/2	24/2017
					mile and 1/2 mile before		
getting to the closure	. Total No. of PC	MSS needed is	units for 6 month	15 ()= \$			
Lane Closure Web Site	e						
Caltrans Highway Info							
Radar Speed Message			64 (approx. EA @	\$30,000)			
Bicycle and pedestrial Others	n information, e.	g. Detour maps					
Odicis					Section 2 Total	\$	50,000
7							
Incident Manageme		F-bd F	forces ont Decem	- COZEED on MA	7EED REEC 066063		
show under "State or				IM - COZEEP OF MA	ZEEP. BEES 066062 -		
Make sure to cons				m their office			
Day COZEEP: To p			# = 6 = 66 = = = =	Data/Us			
# of days	hours/day 4	CHP vehicles	# of officers.	Rate/Hr. 95	1	\$	17,100
13			-	+	_	*	/
Night COZEEP: To	protect active cl	osures	a m mucure				
# of nights	hours/night	CHP vehicles	Wights pood 2	Rate/Hr.	1		50.400
45	8	1	2	\$ 95	_	\$	68,400
Short duration or rem feasible, CFSP could t	note area CFSP us	sually is bid with	much higher ho		ncement of program FSP		
	# of trucks		# of days	Hours per day			
A For service within t		hours	# of days	nours per day			
]					\$0
		D. I.					
For service outside B Extended Peak hour of		P nours					
D Externeed Feak flour	overage	1			1		\$0
		-			-		
C Night support during	structure freeway	y closures and m	najor traffic shifts	5	1		+0
		J			_		\$0
D Weekend support							
]					\$0
				-			+0
Local agency (SAFE): 8% of truck cost	support	8%					\$0
o /o of truck cost							
CFSP CHP support		5%					\$0
5% of truck cost of	only if within regu	ular FSP and are	а				
F1		100/					¢0
Equipment/Supplies % of truck cost ur	nless more detail	10% available					\$0
70 OF CITICA COST OF	incas more detail	a valiable					

Consult with the Inland Empire division of CHP or the border division in the southern Riverside county to select the method which is acceptable for the B,C,D that are outside the regular FSP hours or area.

	ements	EA #/ID#	1F260 / 08	314000194	Date	4/24/
CFSP/CHP support		20%				\$0
20% of truck of	ost or					
CECD Disposeshor 6						
CFSP Dispatcher @		haum	# of ECD	Data	# of FSP vehicles	
# of days	# of nights	hours	# of FSP	Rate	# 01 FSP Vehicles	1.
		0		\$45		\$
		U				J
CESP CHP Officers	(See Cozeep rate)					
# of days	# of nights	hours	# of officers	Rate	# of CHP vehicles	
0 0	# Of Highes	0	# or officers	45	0	1.
0	0	0	2	0	0	\$
0	· ·	U	2	-	0	Ψ
for Contact Distric Service Contra Local Agency v	t FSP Coordinator fo ct vill arrange CFSP wit vill arrange CFSP ad	or task orders.	\$0			
	3.3 Total	\$0				
					Section 3 Total	\$ 85
Construction Stra	todiec					
Contact DTM, at 909- events list. Inform D restrictions; if work n curing which may inc	383-6262, to get De TM of any concerns/ nay be affected by s rease traffic impact	commitments R now and low or when vehicles o	te special LC days, high temperatures. overheat in the quer	times, seasons, E.g. desert hea	events; environmental at may delay AC dig out	
Contact DTM, at 909- events list. Inform D restrictions; if work n curing which may inc significantly between	383-6262, to get De TM of any concerns/ nay be affected by s rease traffic impact seasons, consider 2	commitments R now and low or when vehicles of sets of LRCs to as below. If diff	te special LC days, high temperatures. overheat in the queue avoid CCOs.	times, seasons, E.g. desert hea ue; etc. IF traffic	events; environmental at may delay AC dig out	
Contact DTM, at 909- events list. Inform D restrictions; if work n curing which may inc significantly between This TMP presumes the is responsible to inclu-	383-6262, to get De TM of any concerns/ nay be affected by s rease traffic impact seasons, consider 2	commitments R now and low or when vehicles of sets of LRCs to as below. If diff	te special LC days, high temperatures. overheat in the queue avoid CCOs.	times, seasons, E.g. desert hea ue; etc. IF traffic	events; environmental at may delay AC dig out c volumes vary	
Contact DTM, at 909- events list. Inform D restrictions; if work n curing which may inc significantly between This TMP presumes to is responsible to inclu- x Off peak	383-6262, to get De TM of any concerns/ nay be affected by s rease traffic impact seasons, consider 2	commitments R now and low or when vehicles of sets of LRCs to as below. If diff	te special LC days, high temperatures. overheat in the queue avoid CCOs.	times, seasons, E.g. desert hea ue; etc. IF traffic	events; environmental at may delay AC dig out c volumes vary	
Contact DTM, at 909- events list. Inform D restrictions; if work n curing which may inc significantly between This TMP presumes to is responsible to inclu X Off peak X Night	383-6262, to get De TM of any concerns/ nay be affected by s rease traffic impact seasons, consider 2	commitments R now and low or when vehicles of sets of LRCs to as below. If diff	te special LC days, high temperatures. overheat in the queue avoid CCOs.	times, seasons, E.g. desert hea ue; etc. IF traffic	events; environmental at may delay AC dig out c volumes vary	
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	TMP Elements	EA #/ID#	1F260 / 0814000194	Date	4/24/201	17
					1	
	BEES 066022 (Traffic) Right of Way de					
	closure or orders the contractor an ear	lier pick up, this sh	hall be used to pay damages,	, e.g. for AC cold load, etc.		
4.7			10 Min. Delay penalty Calcu	lations. Note that Delay		
		ent from the R/W	Delay shown above!			
1.8	Others			Castian A Tatal	—	_
				Section 4 Total	\$ -	
5	Demand Management (DM)					
	Project team needs to coordinate with RC	TC/SANBAG/CVAG				
	Traffic diversion may increase available w					
5.1	X A coop will be executed - mentioned in					
).1		THE COLUMN TWO IS NOT THE	nts since the navment to the	local acong will be routed	1	
	Instead of a coop, 15% is added to the through the contractor.	cost of DM eleme	nts since the payment to the	local agency will be routed		
	Instead of a coop, the local agency wil	I make their own a	rrangements with PCTC/SAN	IBAG	1	
	PA/CL or local agency need to inform of					
5.2	X HOV Lanes/Ramps (New or Convert)	ommucers emougi	rice of Shirtshie. Tunus pare	or ry ce.		
5.3	Park-and-Ride Lots					
	Leased spaces (Sponsored spaces may	be feasible in exc	hange for signs and print cov	verage)		
5.4	Parking Management/Pricing (Coordinate					
5.5	BEES 066067 Rideshare Promotion		, ,			
5.6	Rideshare Incentives -					
				Section 5 Total	\$ -	-
6	Alternate Route Strategies					
	Caution - signed detours may require env available work hours. Please work with T		ce. Traffic diversion may inc	rease		
6.1	Add Capacity to Freeway connector					
5.2	Ramp Closures					
5.3	Temporary Highway Lanes or Shoulder	Use				
5.4	Parking Restrictions					
5.5	X Street Improvements					
	x State R/W - Signals, Widen, etc.					
	x Local R/W - Signals, Widen, etc. Co		be needed			
6.6	Local Street USE - Coop or Permit may					
6.7	Traffic Control Officers (see 3.1 Cozee	p)				
6.8	Signed detour - using State routes					
6.9	Signed detour - using local streets and	roads				
.10	X Adjust signals					
5.11	Temporary bicycle or pedestrian facilit	ies				
5.12	Others			0 11 67.1	1 4	
	lau au i			Section 6 Total	\$ -	-
_	Other Strategies					
7.1	Application of new technology					
7.1 7.2	Application of new technology Innovative products					
7.1	Application of new technology			Section 7 Total	\$ -	



	Dist-County-Route:	08-SBD-60		
	Post Mile Limits:	R7.83/R7.91		
	Type of Work:	Interchange Imp	rovement	
	Project ID (EA): 083	4000194 (1F2600	0)	
Caltrans	Program Identificatio	n: 800.100 (HE1:	1)	
	Phase: PID	☑ PA/ED	□ PS&	Ε
Regional Water Quality Control I	Board(s): Santa Ana I	Regional Water Qua	ality Control Bo	ard
Total Disturbed Soil Area: 6.6				
Alternative Compliance (acres): projects within the same waters	Not Applicable (An			
Estimated Const. Start Date:		mated Const. Comp 31/2021	oletion Date:	
Risk Level: RL 1 □	RL2 ⊠ RL3 □	WPCP	Other:	
s the Project within a TMDL wa	tershed?		Yes	No ⊠
TMDL Compliance Units	(acres): 0			
Notification of ADL reuse (if yes,	provide date):	res □ Date:TBD	D at PS&E	No 🗆
Architect stamp required at PS		19	16/17	
lacqueline Hemandez, Register	ed Project Engineer			Date
have reviewed the stormwater current and accurate:	quality design issues a	and find this report	to be complete	,
	RapilAch	y	12	15/17
	Rafih Achy, Project M.	anager		Date
			/	1
	remaid his	tella	12/18	12017
	Leonard Estrella, Des	ignated Maintenand	ce /2/18/	Date
	Leonard Estrella, Des Representative	gnated Maintenand	ce /2//8/	/20/7 Date
		ignated Maintenand	ce 12/18/	Date
	Representative Bishop, Designa	gnated Maintenan	ce 12/18/	Date
	Representative PBishop	ted Landscape Arc	12/18/ hitect	2017 Date
[Stamp Required at PS&E only]	Representative Bishop, Designa	ted Landscape Arc	12/18/ hitect	2017 Date
[Stamp Required at PS&E only]	Representative Rose Bishop, Designa Representative	ted Landscape Arc	12/18/ hitect	2017 Date



LEVEL 1 - RISK REGISTER	Status ID# Type Category	Active 1 Threat PM	Active 2 Threat Design	Active 3 Threat ROW		Active 4 Threat RO	4 Threat 5 Threat	4 Threat 5 Threat 6 Threat	4 Threat 5 Threat 6 Threat 7 Threat	4 Threat 5 Threat 6 Threat 7 Threat 8 Threat	4 Threat 5 Threat 7 Threat 8 Threat 9 Threat	4 Threat 5 Threat 7 Threat 9 Threat 10 Threat
Project Name:	Title	M Schedule Delay	sign Nonstandard Lane Width	NW Right of Way Impacts		ROW Driveways		tion		_		
Name: Archibald Ave Improvement Project	ntification Risk Statement	As a result of the Overlapping Schedule, delays and schedule difficulties may occur, which would lead to a delay in the completion of the PID phase.	As a result of the limited width on Archibald, Caltrans rejection of nonstandard lanes may occur, which would lead to a delay in the completion of the project.	As a result of widening, ROW acquisition along Archibald will occur, which could lead to a complete project rescope and delay.	As a result of widening, significant driveway impacts may occur that affect business access, which would lead to a	complete project rescope and delay.	complete project rescope and delay. As a result of property acquisitions required from adjacent properties, acquisition delays may occur, which would lead to overall project delays.	As a result of property acquisitions required from adjacent properties, acquisition delays may occur, which would lead to overall project delays. As a result of relocating utilities, delays in coordination with utility companies may occur, which would lead to overall project delays or increase in project cost.	As a result of property acquisitions required from adjacent properties, acquisition delays may occur, which would lead to overall project delays. As a result of relocating utilities, delays in coordination with utility companies may occur, which would lead to overall project delays or increase in project cost. As a result of unanticipated right of way or other physical constraints, supplemental design exceptions may occur, which would lead to overall project delays or increase in project cost.	As a result of property acquisitions required from adjacent properties, acquisition delays may occur, which would lead to overall project delays. As a result of relocating utilities, delays in coordination with utility companies may occur, which would lead to overall project delays or increase in project cost. As a result of unanticipated right of way or other physical constraints, supplemental design exceptions may occur, which would lead to overall project delays or increase in project cost. As a result of changes made to environmental regulations, plan changes may occur, which would lead to overall project delays or increase in project cost.	As a result of property acquisitions required from adjacent properties, acquisition delays may occur, which would lead to overall project delays. As a result of relocating utilities, delays in coordination with utility companies may occur, which would lead to overall project delays or increase in project cost. As a result of unanticipated right of way or other physical constraints, supplemental design exceptions may occur, which would lead to overall project delays or increase in project cost. As a result of changes made to environmental regulations, plan changes may occur, which would lead to overall project delays or increase in project cost. As a result of public and stakeholder input, project scope changes may occur, which would lead to overall project delays or increase in project cost.	As a result of property acquisitions required from adjacent properties, acquisition delays may occur, which would lead to overall project delays. As a result of relocating utilities, delays in coordination with utility companies may occur, which would lead to overall project delays or increase in project cost. As a result of unanticipated right of way or other physical constraints, supplemental design exceptions may occur, which would lead to overall project delays or increase in project cost. As a result of changes made to environmental regulations, plan changes may occur, which would lead to overall project delays or increase in project cost. As a result of public and stakeholder input, project scope changes may occur, which would lead to overall project delays or increase in project cost. As a result of public and stakeholder input, project scope changes may occur, which would lead to overall project delays or increase in project cost. Design exceptions are not approved in the PA/ED phase, which would lead to increase to overall project cost and schedule
rovement Project	Current status/assumptions	Team has bought in to schedule.	To avoid structure replacement, this acceptance is critical.	Retaining walls may be used in certain locations to mitigate impacts.	An Open House took place on 5/24/17 for the public to provide their comments and concerns. Business owners were shown driveway improvements for the first time and will continue to kept in the loop throughout the design phase.	Driveways impacts are not substantial in the current design.	Driveways impacts are not substantial in the current design. Right of way schedule is on track.	Driveways impacts are not substantial in the current design. Right of way schedule is on track. Right impacts have been idetified and are minimal to the project schedule/cost.	Driveways impacts are not substantial in the current design. Right of way schedule is on track. Utilities impacts have been idetified and are minimal to the project schedule/cost. Schedule/cost. Design is currently at 30% completion with only one build alternative. There is low risk of the geometry changing.	Driveways impacts are not substantial in the current design. Right of way schedule is on track. Right of way schedule is on track. Utilities impacts have been idetified and are minimal to the project schedule/cost. Design is currently at 30% completion with only one build alternative. There is low risk of the geometry changing. It is confirmed that the project will proceed as a CE/CE. The PA/ED phase will be completed by the end of 2017 and changes in regulations are not expected to happen in the short time period.	Driveways impacts are not substantial in the current design. Right of way schedule is on track. Right of way schedule is on track. Utilities impacts have been idetified and are minimal to the project schedule/cost. Design is currently at 30% completion with only one build alternative. There is low risk of the geometry changing. It is confirmed that the project will proceed as a CE/CE. The PA/ED phase will be completed by the end of 2017 and changes in regulations are not expected to happen in the short time period. An Open House has been hosted inviting the public to provide their comment and concerns. Public showed low interest of concern for the project.	Driveways impacts are not substantial in the current design. Right of way schedule is on track. Right of way schedule is on track. Utilities impacts have been idetified and are minimal to the project schedule/cost. Design is currently at 30% completion with only one build alternative. There is low risk of the geometry changing. It is confirmed that the project will proceed as a CE/CE. The PA/ED phase will be completed by the end of 2017 and changes in regulations are not expected to happen in the short time period. An Open House has been hosted inviting the public to provide their comment and concerns. Public showed low interest of concern for the project. Design exceptions have been reviewed in May 2017 and no discussion was made about eliminating a design exception.
DIST- EA	Priority	Low	High	Medium	Low		Medium	Medium	Medium Medium	Medium Low	Medium Low Low	Medium Low Low
1F2600	Risk Rating Rationale for Rating		Non-standard lanes should be acceptable, but the impact would be very high if they get accepted.					Utility coordination challenges have a moderate probability with moderate impacts to project.	Utility coordination challenges have a moderate probability with moderate impacts to project. Unanticipated design exceptions have a moderate probability, the impacts to the project are moderate.	Utility coordination challenges have a moderate impacts to project. Unanticipated design exceptions have a moderate probability, the impacts to the project are moderate.	Utility coordination challenges have a moderate probability with moderate impacts to project. Unanticipated design exceptions have a moderate probability, the impacts to the project are moderate. Major scope changes have a low probability, with a high impact.	Utility coordination challenges have a moderate probability with moderate impacts to project. Unanticipated design exceptions have a moderate probability, the impacts to the project are moderate. Major scope changes have a low probability, with a high impact.
Project Manager	Strategy	Mitigate	Mitigate	Avoid	Avoid		Mitigate	Mitigate Mitigate	Mitigate Mitigate	Mitigate Mitigate Mitigate	Mitigate Mitigate Mitigate Accept	Mitigate Mitigate Mitigate Accept Accept
Rafih Achy	Risk Response Response Actions						Resolve objections to Right of Way acquisition in a timely manner.	Resolve objections to Right of Way acquisition in a timely manner. Proactively coordinate with utility agency to find solution and/or agreement.	Resolve objections to Right of Way acquisition in a timely manner. Proactively coordinate with utility agency to find solution and/or agreement. Develop fact sheets to apply for design exceptions, otherwise change design to avoid design exceptions.	Resolve objections to Right of Way acquisition in a timely manner. Proactively coordinate with utility agency to find solution and/or agreement. Develop fact sheets to apply for design exceptions, otherwise change design to avoid design exceptions. Understand environmental impacts due to change, update design and supporting documents in a timely fashion.	Resolve objections to Right of Way acquisition in a timely manner. Proactively coordinate with utility agency to find solution and/or agreement. Develop fact sheets to apply for design exceptions, otherwise change design to avoid design exceptions. Understand environmental impacts due to change, update design and supporting documents in a timely fashion. Redevelop design based on scope change, and understand next steps to get project back on track.	Resolve objections to Right of Way acquisition in a timely manner. Proactively coordinate with utility agency to find solution and/or agreement. Develop fact sheets to apply for design exceptions, otherwise change design to avoid design exceptions. Understand environmental impacts due to change, update design and supporting documents in a timely fashion. Redevelop design based on scope change, and understand next steps to get project back on track.
	Risk Owner	Consultant Team	Consultant Team	Consultant Team	Consultant Team		Project Manager	Project Manager Project Manager	Project Manager Project Manager			
	Updated	6/9/2017	6/9/2017	6/9/2017	6/9/2017	6/9/2017		6/9/2017	6/9/2017	6/9/2017 6/9/2017 6/9/2017	6/9/2017 6/9/2017 6/9/2017 6/9/2017	6/9/2017 6/9/2017 6/9/2017 6/9/2017



October 13, 2017

Ms. Christy Connors
Deputy District Director
Caltrans, District 8
464 W. 4th Street
San Bernardino, CA 92401



Dear Ms. Connors,

Subject: Archibald Avenue Improvements Project (EA 1F260)
Project Category Assignment

The San Bernardino County Transportation Authority (SBCTA) is seeking approval for assignment of the Archibald Avenue Improvements Project to <u>Category 5</u>, <u>minimal economic</u>, <u>social or environmental significant</u>, in accordance with requirements in Chapter 8, Section 5 of the Caltrans Project Development Procedures Manual.

The project proposes modifications to the existing tight diamond interchange, including the following improvements to Archibald Avenue and the SR-60 ramps:

- Additional left-turn lanes in each direction
- Additional right-turn pockets approaching the eastbound and westbound on ramps
- Extended left lane storage length south of the interchange for northbound traffic accessing the westbound on ramp
- Standard sidewalk widths and ADA compliant curb ramps

The project qualifies for a Categorical Exemption (CE) under the California Environmental Quality Act.

Should you need any additional information, please contact Andrea Nieto, Project Manager, at (909) 884-8276.

Sincerely,

Paula Beauchamp

Director of Project Delivery

Cc: Du Lu, Caltrans

Rafih Achy, Caltrans

Louis Abi-Younes, City of Ontario

Approved:

Christy Conners

Deputy District Director

Design