PROJECT DELIVERY REPORT Trade Corridors Improvement Fund

The submitting agency will be responsible for maintaining documentation of the information entered on this report. (Please type your response, handwritten reports will not be accepted)

A. Project Information			Date:2/13/2018
TCIF # (Segment):	93 SVDT	Other Project Identifier (EA, Project #	#, PPNO, etc):0013000256
Project Title:	Sorrento Valley Double Track	Project	
Delivery Report:		x months of project becoming operabl at the conclusion of all project activities	
Location: County:	San Deigo	City: San Diego	
Project Description:	· ·	mile section of new passing track, ne st (MP) 247.8 to LOSSAN MP 248.9 i	
B. Contact Information			
Implementing Agency:	SANDAG	Caltra	ns District Number:11
Contact Person:	Bruce Smith	Phone	e: <u>619-699-1907</u>
Email Address:	bsm@sandag.org		

C. Cost	Adopted Program Amount (\$)	Current Approved Amount (\$)	Actual Expended Amount (\$)	Net Difference (Dollars)
<u>Environmental</u>				
Total Amount	\$3,352,000	\$3,352,000	\$3,393,340	\$41,340
<u>Design</u>				
Total Amount	\$1,653,000	\$1,653,000	\$1,513,118	-\$139,882
Right of Way		KONTAKONALISA (** ISO = 1) II.	MAKE PARK IN THE REAL PROPERTY.	
Total Amount	\$345,000	\$345,000	\$396,445	\$51,445
Construction				
TCIF	\$14,313,000	\$12,994,000	\$12,055, 199	-\$938,801
Local	\$2,486,000	\$1,889,000	\$1,752,197	-\$136,803
Federal	\$15,551,000	\$14,577,000	\$13,524, 15 4	-\$1,052,846
Other		Description of the Control		\$0
<u>Totals</u>	\$37,700,000	\$34,810,000	\$32,634,453	-\$2,175,547

D. Schedule		C	Astro-LDs sig (Ford	Net Difference
	Adopted Program Dat	Current Approved Date	Actual Begin/End Date	Net Difference (Months)
Environmental Phase				
Begin	07/01/09	07/01/09	07/01/09	0
End	07/01/12	07/01/12	07/01/12	0
Design (PS&E) Phase	Education States			Carlotte Siles
Begin	07/01/10	07/01/10	07/01/10	0
End	04/30/13	04/30/13	04/30/13	0
Right of Way Phase				
Begin	01/01/12	01/01/12	01/01/12	0
End	04/01/13	04/01/13	04/01/13	0
Construction Phase				
Begin	11/01/13	11/01/13	10/25/13	0
End	11/01/15	11/01/15	08/26/16	10
Closeout Date				
Begin	11/01/15	11/01/15	08/26/16	10
End	11/01/20	11/01/20	06/30/17	-40

E. Amendments List approved amendments			
Amendment #	CTC Meeting	Summary of Changes (Scope, Cost, Schedule)	
75A0395 A01	March 2014	Deallocate \$1,319,000 as contractor bid was lower than engineers' estimate	

Outcomes	Adopted Program	Current Approved	Actual
Safety	Increased public safety by reducing truck traffic by approx. 9,540 truck trips along regional and interregional highway network. Reducing potential injury crashes by up to 1/year	Increased public safety by reducing truck traffic by approx. 9,540 truck trips along regional and interregional highway network. Reducing potential injury crashes by up to 1/year	NHTSA data supports the reduction of truck related injury or fatality crashes of 32.45 Incidences per 100 million VMT nationally and with a 7.2% of all large truck crashes occurring in the region. The diverted 9,540 truck trips in 2015 equates to 0.37 eliminated crashes per year and 6 eliminated crashes by 2030 due to freight rail removing trucks from regional and inter-regional highway networks ¹
Velocity	Train speeds to increase from 20 mph to 24 mph	Train speeds to increase from 20 mph to 24 mph	Train speed today is 55 mph for freight trains.
Throughput	Improvements will increase train capacity from four to five trains per day, or approx. 5,627 train cars per year	Improvements will increase train capacity from four to five trains per day, or approx. 5,627 train cars per year	Freight train capacity was increased from 4 to 5 freight trains per day, approx. 5,627 train cars per year
Reliability	Reduce variability and unpredictability of travel time from unanticipated train meets, maintenance, and work windows; on ave. at least 10 min. per freight train.	Reduce variability and unpredictability of travel time from unanticipated train meets, maintenance, and work windows; on ave. at least 10 min. per freight train.	The increase track capacity reduced standing time for trains waiting for train meets and maintenance and with the raised track bed, unanticipated delays from flooding are also reduced or eliminated. The annual saved time ave. to at least 10 min./ freight train.
Congestion Reduction	Increased capacity tp eliminate 9,540 truck trips per year and approx. 1,144,880 truck VMT within the corridor	Increased capacity to eliminate 9,540 truck trips per year and approx. 1,144,880 truck VMT within the corridor	Eliminated 9,540 truck trips in 2015 which is approx. 1,144,880 VMT within the regional and interregional-highway network. Reduced trucks allowed for greater capacity on the network.
Emissions Reductions	Reduction of 9,540 truck trips by 2030 will result in approx reductions of Nox 200lb/day, CO2 1.32 mil lb/day, PM10 260 lb/day, CO 500 lb/day	Reduction of 9,540 truck trips by 2030 will result in approx reductions of Nox 200lb/day, CO2 1.32 mil lb/day, PM10 260 lb/day, CO 500 lb/day	The annual reduction of 9,540 truck trips is on-track and the projected goals of total reduced emissions is projected to be achieved by 2030.

¹ https://crashstats.nhtsa.dot.gov/Api/Public/ViewPublication/812373

G. Differences/Variances

Describe differences/variances (if any) and reason for, between approved scope, cost, schedule, and actual.

- 1. Design and Environmental Budget & Expenditures. Note that the original budget had preliminary engineering (PE) and environmental document costs (ED) in the environmental line. The previously submitted quarterly reports have all engineering under Design and only environmental work in Environmental per our accounting system reports.
- 2. The original Project Construction Budget included a platform extension and another bridge which was later removed from this project at NCTD's request, thus reducing the overall cost of the project. The bridge is being built as part of the Penasquitos bridges Project. The Platform extension is on hold pending additional planning efforts.
- 3. Construction Schedule. Delay in completing construction due to storm damage in January 2016 that washed away the mitigation site plants and temporary irrigation system along the creek side. Repair work added time to complete the revegetation mitigation repair work. However the passing track was placed in service in May 2015 on schedule.
- 4. Close out schedule duration has been reduced as the mitigation site maintenance has been transferred from the Capital Project to the Environmental Mitigation Program at SANDAG.

H. Lessons-Learned/Best Practices

Describe lessons-learned and best practices for future projects.

- For this project we receive a bid lower than the Engineers Estimate. We then deallocating funds on award to maintain a 10% Contingency. Having a larger contingency would have been beneficial in dealing with change orders and claims arising during construction when bids come in lower than engineers estimate.
- 2. Project teams need to always be looking for cost reduction proposals. The Construction Manager came up with several cost reduction proposals which were implemented.
- Should difficulties be accounted doing boreholes then geoetechnical consultants need to consider using a large diameter hole at a bridge site to ascertain what caused the difficult drilling conditions.
- 4. Dewatering requirements need to be coordinated between different specification sections to maintain consistency.
- 5. Advanced planning on utility relocation should be started at 30% design so as to avoid utility conflicts during construction.
- 6. Planning for absolute work windows which shut down the rail passenger operations need to be well planned. Have a detailed work plan that has been reviewed by all team members and have a contingency plan incase the unexpected happens.

Certification Signature

Implementating Agency I hereby certify to the best of my knowledge and belief, the information in the was performed in accordance with the CTC approved scope, cost, schedule Agreement.	his report is a true and accurate record. The work les, and benefit information in the Baseline
Bruce Smith (Print name) Project Manager (Signature) Project Manager	4/2/2018 Date
Caltrans The TCIF Division Program Coordinator and/or the Project Manager from treviewed the information contained in this report and has verified the information.	the California Department of Transportation has mation presented is correct.
Phillip Hoebeke (Print Name) TCIF Division Program Coordinator/Project Manager (Signature) TCIF Division Program Coordinator/Project Manager	4/5/18 Date
The TCIF Program Lead from the California Department of Transportation and concurs with the approval.	has reviewed the information contained in the repor
(Print Name) TCIF Program Lead	
(Signature) TCIF Program Lead	4//0/18 Date

Distribution: 1) Local Agency, 2) Division Program Coordinator/Project Manager, 3) TCIF Program Lead, 4) CTC