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	: <u>2/23/2021</u>
TCIF # (Segment)	:99	Other Project Identifier (EA, Pr	roject #, PPNO, etc):	TCIFL-5133(039)
Project Title	: Raymond Avenue Grad	e Separation		
Delivery Report:		thin six months of project becoming ope		
	△ Supplemental	- Due at the conclusion of all project ac	tivities.	
Location: County	: Orange	City: Fullerton		
Project Description:	Grade separation of exis	sting street crossing of BNSF		
B. Contact Information				
Implementing Agency	: City of Fullerton		_ Caltrans District Number	r: <u>12</u>
Contact Person	: Yelena Voronel, City En	gineer/Asst. Director of Public Works	_ Phone: (714) 738-6852	
Email Address: yelenav@ci.fullerton.ca.us			_	

C. Cost	Adopted Program Amount (\$)	Current Approved Amount (\$)	Actual Expended Amount (\$)	Net Difference (Dollars)
Environmental				
Total Amount	\$0	\$0	\$1,176,502	-\$1,176,502
<u>Design</u>				
Total Amount	\$5,370,000	\$5,370,000	\$4,230,591	\$1,139,409
Right of Way				
Total Amount	\$34,901,000	\$34,901,000	\$32,180,524	\$2,720,476
Construction				
TCIF	\$11,890,000	\$10,400,000	\$10,400,000	\$0
Local	\$7,042,000	\$7,042,000	\$24,444,246	-\$17,402,246
Federal	\$0	\$0	\$0	\$0
Other	\$52,987,000	\$52,987,000	\$52,987,000	\$0
Total Amount	\$71,919,000	\$70,429,000	\$87,831,246	-\$17,402,246
<u>Totals</u>	\$112,190,000	\$110,700,000	\$125,418,862	-\$14,718,862

Comment: The Total Actual Expended Amount of Construction Cost includes City's Construction Engineering cost as well as OCTA's project management labor cost for Construction Engineering/Support which are both non-eligiblel for Caltrans reimrbusement.

D. Schedule				
	Adopted Program Date	Current Approved Date	Actual Begin/End Date	Net Difference (Months)
Environmental Phase				
Begin	02/10/09	02/10/09	02/10/09	0
End	11/16/09	11/16/09	11/16/09	0
Design (PS&E) Phase				
Begin	03/30/10	03/30/10	03/30/10	0
End	12/14/12	12/14/12	12/14/12	0
Right of Way Phase				
Begin	12/11/11	12/11/11	12/11/11	0
End	07/31/13	07/31/13	07/31/13	0
Construction Phase				
Begin	07/29/14	07/29/14	02/04/14	6
End	07/15/18	07/15/18	05/14/18	2
Closeout Date				
Begin	07/15/18	07/15/18	07/15/18	0
End	07/15/21	07/15/21	07/15/21	0

E. Amendments

List approved amendments

Amendment:

Resolution TCIF-A-1314-11, Approved 01/29/14 to the allocation amount of \$11,890,000 to the project.

Resolution TCIF-AA-1819-13, Approved the deallocation in the amount of \$1,490,000 of TCIF Funds, from \$11,890,000 to \$10,400,000.

Outcomes	Adopted Program	Current Approved	Actual
Safety	Grade separations completely separate automobiles and other traffic from trains, eliminating the potential for a grade crossing collision.	Grade separations completely separate automobiles and other traffic from trains, eliminating the potential for a grade crossing collision.	By eliminating the at grade crossing, trains are no longer interacting with vehicles, pedestrians and bicyclists. The project has eliminated: 1) Pedestrians walking across tracks 2) Emergency vehicle delays 3) Potential for train/vehicle collisions
Velocity	With the construction of the grade separation, vehicles traveling would be able to maintain a more consistent speed within this segment of the roadway because the delay and conflict associated with the at-grade crossing would be eliminated.	With the construction of the grade separation, vehicles traveling would be able to maintain a more consistent speed within this segment of the roadway because the delay and conflict associated with the at-grade crossing would be eliminated.	Since trains are no longer interacting with vehicles, railroad and vehicle velocities have improved by eliminating delays and potential train/vehicle collisions.
Throughput	The Annual Average Daily Traffic will increase from 23,100 to 30,500 in 2030. Current at-grade crossing is forecasted to cause 5.0 hours of daily delay for trucks in 2030, a 118% increase of the existing condition. Grade separation will eliminate conflict.	The Annual Average Daily Traffic will increase from 23,100 to 30,500 in 2030. Current at-grade crossing is forecasted to cause 5.0 hours of daily delay for trucks in 2030, a 118% increase of the existing condition. Grade separation will eliminate conflict.	Since trains are no longer interacting with vehicles, trucks throughput has improved by eliminating delays at grade crossing.
Reliability	grade rail crossings is influenced by two factors: delay and safety. Delay due to the at-grade crossing would be eliminated and the separation of the railway from the roadway would improve safety		Since trains are no longer interacting with vehicles, goods movement reliability has improved by eliminating delays and potential train/vehicle collisions.

Congestion Reduction	separation would eliminate the	The existing total traffic delay (vehicle-hours/day) due to the rail crossing is 45.5 hours and this is expected to increase to 99.4 in 2030. The grade separation would eliminate the delay due to the rail crossing.	Since trains are no longer interacting with vehicles, congestion is reduced since vehicle delays at the grade crossing is eliminated.
Emissions Reductions	ROG Emission Benefits (0.53 kg/day) CO Emission Benefits (7.56 kg/day) Nox Emission Benefits (0.49 kg/day) PM Emission Benefits (0.04 kg/day)	ROG Emission Benefits (0.53 kg/day) CO Emission Benefits (7.56 kg/day) Nox Emission Benefits (0.49 kg/day) PM Emission Benefits (0.04 kg/day)	Railroad grade separtion project currently provides air pollution reductions when compared to the no-build scenario. Benefit values are reconfirmed by AQMD. See attachment, OCTA Grade Separation Project AQ Assessment 9-29-20 from AQMD.

G. Differences/Variances

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

The actual environmental expenditures exceeded the budgeted amount was due to unanticipated costs related to federalizing the project to replace local funds with federal funds. In addition, the cost of the relocation of existing utilities including the associated design exceeded the budgeted amount was due to expected conditions. The actual amount for construction exceeded the budgeted amount was due to various construction change orders to address utility conflicts and design changes, as well as the discovery of contaminated materials for the project.

H. Lessons-Learned/Best Practices

Describe lessons-learned and best practices for future projects.

Additional effort should have been expended during the design phase to minimize right-of-way takes during construction to reduce costs and avoid project delays. Also, additional effort should have been expended to identify all impacted utilities and to coordinate with utility companies as early as possible to relocate their facilities in advance of the construction phase. Design support is important during construction to identify and address design issues in a timely manner to reduce construction costs.

Certification Signature

Implementing Agency

I hereby certify to the best of my knowledge and belief, the information in this report is a true and accurate record. The work was performed in accordance with the CTC approved scope, cost, schedules, and benefit information in the Baseline Agreement.

Yelena Voronel	
(Print name) Project Manager	
Moronel	2/23/2021
(Signature) Project Manager	Date
Caltrans	
The TCIF Division Program Coordinator and/or the Project Manager from the information contained in this report and has verified the information presented	
Trina Luo	
(Print Name) TCIF Division Program Coordinator/Project Manager	
angris	7/29/2021
(Signature)TCIF Division Program Coordinator/Project Manager	Date
The TCIF Program Lead from the California Department of Transportation hat that the information reported for the TCIF funds is accurate.	s reviewed the information contained in the report and found
Gretchen Chavez	
(Print Name) TCIF Program Lead	
Gretchen Chavez (Signature) TCIF Program Lead	7/29/21
(Signature) TCIF Program Lead	Date

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