

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: 05/05/2016

TCIF # (Segment): 59 Other Project Identifier (EA, Project #, PPNO, etc): TCIF-5954(130)

Project Title: Glen Helen Parkway Railroad Grade Separation PPNO 1130

Delivery Report: ☒ Final- Due within six months of project becoming operable.
☐ Supplemental - Due at the conclusion of all project activities.

Location: County: San Bernardino City: Devore

Project Description: Construct grade separation on Glen Helen Parkway at the Union Pacific and Burlington North Santa Fe crossings.

B. Contact Information

Implementing Agency: County of San Bernardino Caltrans District Number: 8

Contact Person: Robert Lopez Phone: (909) 387-8180

Email Address: robert.lopez@dow.shcountv.gov

C. Cost

	Adopted Program Amount (\$)	Current Approved Amount (\$)	Actual Expended Amount (\$)	Net Difference (Dollars)
Environmental				
Total Amount	\$0	\$0	\$0	\$0
Design				
Total Amount	\$2,650,000	\$2,650,000	\$2,650,000	\$0
Right of Way				
Total Amount	\$3,000,000	\$6,400,000	\$6,693,611	-\$293,611
Construction				
TCIF	\$7,172,000	\$7,172,000	\$7,172,000	\$0
Local	\$7,469,000	\$4,104,000	\$4,778,676	-\$674,676
Local	\$6,577,000	\$3,499,000	\$5,148,864	-\$1,659,864
Private		\$2,070,000	\$838,670	\$1,131,330
Totals	\$26,668,000	\$25,895,000	\$27,361,820	-\$1,466,820

D. Schedule

	Adopted Program Date	Current Approved Date	Actual Begin/End Date	Net Difference (Months)
Environmental Phase				
Begin	06/01/08	06/01/08	06/01/08	0
End	06/30/08	04/30/10	04/19/10	0
Design (P&E) Phase				
Begin	06/01/08	04/01/09	04/01/09	0
End	06/30/10	12/01/12	12/01/12	0
Right of Way Phase				
Begin	11/01/08	04/01/10	04/20/10	0
End	09/01/09	12/18/12	04/16/13	4
Construction Phase				
Begin	11/01/10	04/06/13	05/07/13	1
End	11/01/12	06/22/14	06/18/15	9
Closeout Date				
Begin	11/01/12	06/01/14	05/19/15	9
End	06/01/13	03/01/15	11/19/15	8

E. Amendments**List approved amendments****Amendment # CTC Meeting Summary of Changes (Scope, Cost, Schedule)**

TCIF-P-1011-15 01/20/2011 Revise the delivery schedule, cost and funding plan.

TCIF-P-1213-27 12/5/2012 - 12/6/2012 Revise the delivery schedule, cost and funding plan.

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1/8/2013

F. Project Benefits**Describe and compare project benefits with those included in the approved Baseline Agreement.**

Outcomes	Adopted Program	Current Approved	Actual
Safety	Eliminate 1) at-grade crossing; 2) pedestrians walking against traffic; and 3) emergency vehicle response delays	Eliminate 1) at-grade crossing; 2) pedestrians walking against traffic; and 3) emergency vehicle response delays	Same as approved.
Velocity	Improve railroad velocity by eliminating the potential for train versus vehicle/pedestrian collision	Improve railroad velocity by eliminating the potential for train versus vehicle/pedestrian collision	Same as approved.
Throughput	Improve railroad throughput by eliminating the potential for train versus vehicle/pedestrian collision	Improve railroad throughput by eliminating the potential for train versus vehicle/pedestrian collision	Same as approved.
Reliability	Improve railroad reliability by eliminating the potential for train versus vehicle/pedestrian collision	Improve railroad reliability by eliminating the potential for train versus vehicle/pedestrian collision	Same as approved.
Congestion Reduction	Reduce vehicle delays due to passing trains	Reduce vehicle delays due to passing trains	Same as approved.
Emissions Reductions	Eliminate impacts from greenhouse gases generated by traffic delayed by trains	Eliminate impacts from greenhouse gases generated by traffic delayed by trains	Same as approved.

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

The original project scope was maintained. Due to the amendments listed above, however, the final project cost was approximately 3 percent over the original contract amount. The original contract amount was \$16,086,298.00, and the total contract payments amounted to \$16,584,705.72.

11. Lessons-Learned/Best Practices

Describe lessons-learned and best practices for future projects.

- (1) Railroad Flagging Cost: Make sure the contractor puts it in his schedule, or make the flagging costs part of the contractor's cost. Spend more time prior to construction, accurately estimating the number of flagging hours needed.
- (2) Driven Steel Piles Cost: Spend more time studying the geotechnical report and give careful consideration to how it impacts the project.
- (3) MSE Wall Costs: Give careful consideration to not using a bin wall design, or at least provide more details in the working drawings.
- (4) Property Demolition Costs: Allow sufficient time, prior to construction, for the necessary properties to be acquired.
- (5) Asphalt Concrete Pavement Quality: Consider using a pavement type that uses a different aggregate size or greater thickness.
- (6) Drainage Construction: Spend more time, prior to construction, determining how much drainage control is needed for the project.
- (7) Lump Sum Railroad Coordination Item: Consideration should be given to not using these types of contract items in the future.

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.

Halle Ford, P.E.

(Print name) Project Manager



(Signature) Project Manager

5/6/2016

Date

Caltrans

The TCIF Division Program Coordinator and/or the Project Manager from the California Department of Transportation has reviewed the information contained in this report and has verified the information presented is correct.

Bill Huang

(Print Name) TCIF Division Program Coordinator/Project Manager



(Signature) TCIF Division Program Coordinator/Project Manager

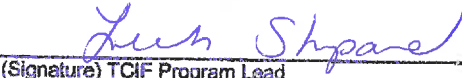
5/10/16

Date

The TCIF Program Lead from the California Department of Transportation has reviewed the information contained in the report and concurs with the approval.

Leah Shepard

(Print Name) TCIF Program Lead



(Signature) TCIF Program Lead

6/21/16

Date

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