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)

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| A. Project Information | | | | Date: | 3/30/2015 |
|---|-----------------------------|--|-------------------|------------------|-----------|
| TCIF # (Segment): | 9 | Other Project Identifier (EA, P ESPLCM-5002 (142); HPLUL- | | | TC09; |
| Project Title: | Sacramento Intermodal Track | Relocation | | | |
| Delivery Report: | | x months of project becoming of at the conclusion of all project | | | |
| Location: County: | Sacramento | City: Sacramento | | | |
| Project Description: | Track Relocation and Separa | tion of Passenger and Freight | Tracks | | |
| B. Contact Information Implementing Agency: | City of Sacramento | | Caltrans District | Number: <u>3</u> | |
| Contact Person: | Hinda Chandler | | Phone: | (916) | 808-8422 |

| C. Cost - Phase I - Sa | cramento Intermodal Track Relo | cation Phase I - Initial Projec | t | |
|------------------------|--------------------------------|---------------------------------|-----------------------------|-----------------------------|
| | Adopted Program Amount (\$) | Current Approved Amount (\$) | Actual Expended Amount (\$) | Net Difference (Dollars) |
| Environmental | | | | |
| Total Amount | \$2,000,000 | \$3,255,000 | \$3,142,604 | \$112,396 |
| Design | | | | |
| Total Amount | \$4,984,000 | \$6,865,000 | \$8,349,018 | -\$1,484,018 |
| Right of Way | | | | nkak MS Her |
| Total Amount | | | | |
| Construction | HEROSTEFFE RECEIVED | tinungwa akitik letalikki | | |
| TCIF | \$20,000,000 | \$25,266,000 | \$25,266,000 | \$0 |
| Local | \$5,000,000 | \$7,800,000 | \$9,054,948 | -\$1,254,948 |
| Federal | \$19,600,000 | \$34,623,000 | \$34,823,897 | -\$200,897 |
| Other | | | | \$0 |
| Totals | \$51,584,000 | \$77,809,000 | \$80,636,467 | -\$2,827,467 |

Email Address: hchandler@cityofsacramento.org

| C. Cost - Phase II - We | est Pedestrian/Bicycle Tunnel Ra | | N 4 B''' | |
|-------------------------|----------------------------------|------------------------------|-----------------------------|-----------------------------|
| | Adopted Program Amount (\$) | Current Approved Amount (\$) | Actual Expended Amount (\$) | Net Difference (Dollars) |
| <u>Environmental</u> | 设置的设备线机器等 设置控制组织 | United to Bridge Bridge | | esenti litara |
| Total Amount | | | | \$0 |
| <u>Design</u> | | | | ng Saya Cerondita |
| Total Amount | | | | \$0 |
| Right of Way | 法法有 的股份的 | | Harata Albaria (Alba | |
| Total Amount | | | | \$0 |
| Construction | | | | |
| TCIF | \$0 | | | \$0 |
| Local | \$0 | \$700,000 | \$963,744 | -\$263,744 |
| Federal | \$0 | \$2,783,000 | \$2,783,330 | -\$330 |
| Other | | | | \$0 |
| | | | | |
| <u>Totals</u> | \$0 | \$3,483,000 | \$3,747,074 | -\$264,074 |

| D. Schedule - Phase I - Sa | acramento Track Relocation | - Initial Project | | |
|----------------------------|----------------------------|-----------------------|--------------------------|----------------------------------|
| | Adopted Program Date | Current Approved Date | Actual Begin/End Date | Net Difference (Months) |
| Environmental Phase | PLOREST RESTRUCTION | | | |
| Begin | 01/23/08 | 01/23/08 | 01/23/08 | 0 |
| End | 04/30/09 | 08/31/09 | 08/31/09 | 0 |
| Design (PS&E) Phase | enistika (Missilis) | 气耳机 经基础的 医霍勒克氏 医多体气 | | rii en iliaar . Lan I en ilaa |
| Begin | 05/01/09 | 05/01/09 | 05/01/09 | 0 |
| End | 08/31/09 | 12/01/10 | 11/30/10 | 0 |
| Right of Way Phase | | | | |
| Begin | 05/01/09 | 05/01/09 | 05/01/09 | 0 |
| End | 08/31/09 | 11/30/09 | 11/30/09 | 0 |
| Construction Phase | | | | |
| Begin | 01/02/10 | 03/31/11 | 03/22/11 | 0 |
| End | 12/31/11 | 01/31/13 | 08/14/13 | 7 |
| Closeout Date | | | | |
| Begin | 01/01/12 | 01/31/13 | 08/15/13 | 7 |
| End | 06/30/12 | 10/31/13 | 05/31/14 | 7 |

| D. Schedule - Phase II - V | /est Pedestrian/Bicycle Tun | nel Ramps | | |
|----------------------------|------------------------------|--------------------------|--|----------------------------|
| | Adopted Program Date | Current Approved Date | Actual Begin/End Date | Net Difference (Months) |
| Environmental Phase | | | TOP TO MAKE THUS ASSESSED. TO CONTRACTOR WAS ASSESSED. | |
| Begin | 01/23/08 | 01/23/08 | 01/23/08 | 0 |
| End | 04/30/09 | 08/31/09 | 08/31/09 | 0 |
| Design (PS&E) Phase | | | In the Principal Constitution of the Constitut | H.SKT'S F |
| Begin | 05/01/09 | 05/01/09 | 05/01/09 | 0 |
| End | 08/31/09 | 01/31/12 | 01/18/11 | -2 |
| Right of Way Phase | | | | |
| Begin | 05/01/09 | 05/01/09 | 05/01/09 | 0 |
| End | 08/31/09 | 08/31/11 | 11/30/09 | 0 |
| Construction Phase | | | | |
| Begin | 01/02/10 | 05/01/12 | 09/11/12 | 4 |
| End | 12/31/11 | 01/31/13 | 09/16/13 | 8 |
| Closeout Date | ENTRY HER RESPECTIVE SECTION | | EL BUMBIN | |
| Begin | 01/01/12 | 01/31/13 | 09/17/13 | 8 |
| End | 06/30/12 | 10/31/13 | 05/30/14 | 7 |

| List approved amen | dments | |
|-----------------------|-----------------------|---|
| Amendment # | CTC Meeting | Summary of Changes (Scope, Cost, Schedule) |
| TCIF-P-0708-01B | August 28, 2008 | Original Project Baseline Agreement |
| TCIF-P-0809-09 | March 12, 2009 | Program add'l \$5,226,000 to add scope - pedestrian tunnel/ramps |
| TCIF-P-1011-06 | Sept 22, 2010 | Revise schedule for design and construction milestones |
| TCIF-P-1112-21 | Feb 22, 2012 | Update schedule, cost, funding, and split project into two phases (West |
| Pedestrian/Bicycle Tu | nnel Ramps to be cons | tructed under separate contract) |

| F. Project Benefits Describe and compare project benefits with those included in the approved Baseline Agreement. | | | | |
|--|---|---|--|--|
| Outcomes | Adopted Program | Current Approved | Actual | |
| Safety | Estimated 100% reduction in number of passenger crossings of live freight tracks. | Estimated 100% reduction in number of passenger crossings of live freight tracks. | Construction of passenger tunnels and walkways and movement of freight tracks eliminated passenger crossings of live freight tracks. | |
| Velocity | Estimated 50% increase in permitted freight train speed through station segment | Estimated 50% increase in permitted freight train speed through station segment | Elimination of curves and conflicts has increased freight train speed over 50%. | |
| Throughput | N/A | | | |

| Reliability | Major bottleneck on Central Rail Corridor is eliminated with track reconfiguration. Conflicts between freight and passenger service are reduced 80-90% approx. Curves in segment are eliminated | Major bottleneck on Central Rail Corridor is eliminated with track reconfiguration. Conflicts between freight and passenger service are reduced 80-90% approx. Curves in segment are eliminated | Track reconfiguration, elimination of curves, and double tracking greatly reduced conflicts between freight/passenger rail at railyard, improving train reliability. |
|----------------------------------|---|--|--|
| Congestion Reduction | N/A | | |
| Emissions Reductions | Estimated reductions from reduced idling and speed improvements; per year reductions approximately: ROG-16 pounds, NOx - 191 pounds, CO-43 pounds and PM10/PM2.5 - 119 pounds | Estimated reductions from reduced idling and speed improvements; per year reductions approximately: ROG-16 pounds, NOx - 191 pounds, CO-43 pounds and PM10/PM2.5 - 119 pounds | Train idling reduced through installation of wayside power cabinets, improved speed, and other improvements, meeting or exceeding emissions reductions. |
| Other - Noise Reduction | Not included in Baseline Agreement | been greatly reduced. This is durand better track bed. It is very e come in very quietly and people 2012 before and after the track monitor along the ROW fence receptor to take readings. It was values were in the range of 67.5 to 69.5 | rough the station and on the new track has e to the new welded track and concrete ties vident at the station platforms where trains are standing or sitting close to the tracks. In a cutover, the City had ICFI place a noise e east of the station by a noise sensitive found that prior to the cutover the daily Ldn to 71.2 dB and that after the cutover, they 5dB. Also, the measurements showed that down approximately 4 dB after the cutover. |
| Other - Aesthetics/Open Views | Not included in Baseline Agreement | Plaza are situated to the north of looks towards the city, they can like they never before could. Sim the north and to the west and District, the riverfront, the dyr platforms are within 50 feet of the hand view of these interesting Sacramentans could never get of the second | s, the new passenger platforms and Midway the CBD. When an individual on them now see the Sacramento skyline and city views illarly, there are new views across the site to one can see the Central Shops Historic namic freeway and scenic sunsets. The he historic Central Shops and give a close and historic brick industrial buildings that close to before. These views add greatly to and to an appreciation of the setting. |

G. Differences/Variances

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

The total project (Phases I and II) cost approximately \$3 million more than anticipated - about 4% over total budget. Nearly half the cost were attributable to design costs needed for rescoping and separating plans to rebid, and to field design changes due to changes in train operator equipment/operating standards. Construction cost increases were largely the result of changes orders related to train operations increased standards and costs. The overage was funded through local funds and an increase in federal funds. In addition, construction phase completion was delayed by 7 months due to numerous minor items that needed to be finalized before closure. Due to the size and complexity of the project, the punch list of minor items that needed to be addressed required extensive coordination and completion. As a reult, the close out period was also extended by 7 months. The West Tunnel Ramps project had to be rebid as a result of bids coming in higher than approved budget, delaying construction award by 4 months. Due to extended schedule for completion of the larger Track Relocation and the interconnection between the projects, the West Tunnel Ramps project (Phase 2) could not be completed until the initial project was complete, and it experienced concomitant delays.

H. Lessons-Learned/Best Practices

Describe lessons-learned and best practices for future projects

*Used same Construction Management firm for all projects related to or the Intermodal or in the Railyards - several that were occurring concurrently or in sequence. This created cohesiveness and fostered coordination among the contracts which had different construction contractors.

*Rail operators had updated their requirements/standards between approval of original plans and specifications and construction, resulting in need for a number of change orders. A pre-agreement on how to handle/pay for changed standards would have been helpful.

*Due to funding shortfalls, the project had to be value engineered, rebid and phased, requiring new plans and specifications and resulting in delays and adding expense. Identifying phasable segments of the project as bid alternates would have eased this process. The unique and varied nature of this work made accurate estimating difficult.

Certification Signature

| | information in this report is a true and accurate record. The work be, cost, schedules, and benefit information in the Baseline |
|--|---|
| Lucinda Willcox | |
| (Print name) Project Manager | |
| - Themself Wallow | 3/30/2015 |
| (Signature) Project Manager | Date |
| Caltrans | |
| The TCIF Division Program Coordinator and/or the Project reviewed the information contained in this report and has well as the contained in the project and th | Manager from the California Department of Transportation has |
| Karen Hunter (Print Name) TCIF Division Program Coordinator/Project N | /lanager |
| (Signature)TCIF Division Program Coordinator/Project Man | 14-16-15 nager Date |
| | |
| The TCIF Program Lead from the California Department or and concurs with the approval. | f Transportation has reviewed the information contained in the report |
| Dawn Chase (Print Name) TGIF Program Lead | |
| (Print Name) TCIF Program Lead | |
| Meceren | 4/16/15 |
| (Signature) TCIF Program Lead | Date |

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