SUBMITTAL TO THE BOARD OF SUPERVISORS COUNTY OF RIVERSIDE, STATE OF CALIFORNIA



ITEM: 3.45 (ID # 21120)

MEETING DATE:

Tuesday, February 28, 2023

FROM:

TLMA-TRANSPORTATION:

SUBJECT: TRANSPORTATION AND LAND MANAGEMENT AGENCY/TRANSPORTATION: Approval of Amendment No. 3 to the Engineering Services Agreement between the County of Riverside and HNTB Corporation for Grade Separation Improvements on Jurupa Road. District 2. [\$2,020,129 FY 22/23-25/26 Cost, \$11,780,725 Total Cost - State Funds 100%]

RECOMMENDED MOTION: That the Board of Supervisors:

- 1. Approve Amendment No. 3 to the Engineering Services Agreement between the County of Riverside and HNTB Corporation for the Jurupa Road Grade Separation Project to increase the not to exceed amount by \$2,020,129; and
- 2. Authorize the Chair of the Board of Supervisors to execute the amendment to the contract on behalf of the County.

ACTION:Policy

Zamodotor, By oster or management

MINUTES OF THE BOARD OF SUPERVISORS

1/30/2023

On motion of Supervisor Spiegel, seconded by Supervisor Gutierrez and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

Ayes:

Jeffries, Spiegel, Washington, and Gutierrez

Nays:

None

Absent:

Perez

Date:

February 28, 2023

XC:

Trans.

SUBMITTAL TO THE BOARD OF SUPERVISORS COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

| FINANCIAL DATA | Current Fiscal Year: | Next Fiscal Year: | Total Cost: | Ongoing Cost |
|---|----------------------|---------------------|--------------|--------------|
| COST | \$ 1,250,000 | \$770,129 | \$ 2,020,129 | \$ 0 |
| NET COUNTY COST | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| SOURCE OF FUNDS will be used on this proj | nds | year: 22/23 - 25/26 | | |

C.E.O. RECOMMENDATION: Approve

BACKGROUND:

<u>Summary</u>

The County of Riverside Transportation Department, in cooperation with the City of Jurupa Valley (City), desires to construct a new grade separation to replace the existing Union Pacific Railroad (UPRR) at-grade crossing located on Jurupa Road in the City, east of Van Buren Boulevard. Jurupa Road is a two-lane arterial highway that provides access to commercial, industrial and residential land uses in the City.

This proposed project will grade separate Jurupa Road and the UPRR mainline tracks with an underpass where it crosses the tracks. This improvement will expand vehicular traffic circulation and safety. The project will also provide uninterrupted and efficient access to motorists, residents, businesses, pedestrians and emergency vehicles in the area. Additionally, the project will enhance the operational characteristics such as speed, efficiency, and reliability of freight and passenger trains throughout Riverside County by eliminating conflicts between railroad operations and vehicular traffic.

In April 2017, the Governor and State Legislators dedicated \$427 million to improve five major transportation projects in Riverside County. The Jurupa Road Grade Separation project was allocated \$108.4 million for the design and construction of a new roadway and structure to grade separate Jurupa Road from the UPRR tracks. Without this approved funding, the project would not have been built for many years. These funds are being distributed through the Riverside County Transportation Commission (RCTC).

On October 24, 2017 (Minute Order 3.14), the Board of Supervisors approved an agreement between the County, the City and RCTC that designated the County as the lead agency to implement the Project.

On March 13, 2018 (Minute Order 3.18), the Board of Supervisors approved an Agreement between the County and HNTB Corporation for engineering and environmental services (Agreement). The Agreement provides the terms and conditions, scope of work, schedule and budget for the performance of professional and technical services necessary to obtain

SUBMITTAL TO THE BOARD OF SUPERVISORS COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

environmental clearance and prepare plans, specifications and estimates suitable for awarding a contract to construct the proposed grade separation.

The original scope and budget for the project were based on a roadway overpass of the UPRR corridor. However, during the project development phase, it was determined that an underpass would better meet the goals of the developing community and would minimize impacts to local businesses. As a result, the Jurupa Valley City Council approved the selection of a roadway underpass alternative. The underpass alternative required several additional features that affected the project design scope and budget.

On September 22, 2020 (Minute Order 3.16), the Board of Supervisors approved Amendment No.1 to the Agreement between the County and HNTB Corporation for engineering and environmental services to complete the additional services for the underpass alternative.

During the development of the plans for the underpass, UPRR has required that the County incorporates additional improvements to the UPRR facilities that were not scoped and budgeted in the original Agreement or in Amendment No.1. The additional improvements have resulted in additional submittals to UPRR for review that were not included with the original Agreement and Amendment No.1.

On March 29, 2022 (Minute Order 3.26), the Board of Supervisors approved Amendment No. 2 to the Agreement between the County and HNTB Corporation for engineering and environmental services to complete the additional improvements requested by UPRR.

UPRR has recently revised and updated its requirements related to the construction of its facilities. These UPRR updated requirements were not included in the original Agreement, Amendment No.1 or Amendment No. 2. For this reason, UPRR track plans need to be updated for incorporation of UPRR new standards and requirements.

This Amendment No. 3 provides the additional scope of work and the funding to make the necessary revisions and incorporate the additional improvements required by UPRR's current standards. This Amendment No. 3 will increase the funding as follows:

| Original authorization | \$5,357,952 |
|-------------------------------|--------------|
| Authorized by Amendment No. 1 | \$1,865,873 |
| Authorized by Amendment No. 2 | \$2,536,771 |
| Authorized by Amendment No. 3 | \$2,020,129 |
| Total | \$11,780,725 |

Impact on Residents and Businesses

The Jurupa Road grade separation project will improve vehicular traffic circulation and safety and will provide uninterrupted and efficient access for motorists, residents, businesses,

SUBMITTAL TO THE BOARD OF SUPERVISORS COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

pedestrians and emergency vehicles in the area. Additionally, the project will enhance the operational characteristics such as speed, efficiency, and reliability of freight and passenger trains through Riverside County by eliminating conflicts between railroad operations and vehicular traffic.

SUPPLEMENTAL:

Additional Fiscal Information

On April 6, 2017, the California Senate approved Senate Bill Number 132 (hereinafter "SB-132") which added appropriation to the budget bill to provide \$427,172,000 for five major transportation projects. SB-132 includes provisions for providing funding in the amount of \$108.4 Million for the construction on the Jurupa Road Grade Separation project. SB-132 funds for the project will be distributed through the RCTC.

The City of Jurupa Valley will be 100% responsible for funding the portions of the project not covered by SB-132. No County funds will be used.

Contract History and Price Reasonableness

The Amendment No. 3 price was negotiated and is consistent with industry standards.

Attachments:

Amendment No. 3 Vicinity Map

Jason Farin, Principal Management Analyst

Z/ZO/ZOZO

Ronak Patel
Ronak Patel Deputy County Counsel 2/21/20

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Engineering Services Agreement - Amendment No. 3

TO THE ENGINEERING SERVICES AGREEMENT

AMENDMENT NO. 3

FOR JURUPA ROAD GRADE SEPARATION PROJECT

BETWEEN COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT AND HNTB CORPORATION

THIS AMENDMENT NO. 3 TO THE ENGINEERING SERVICES AGREEMENT FOR JURUPA ROAD GRADE SEPARATION PROJECT (hereinafter "Amendment No. 3") is made and entered into as of the 22th day of 2023, by and between the County of Riverside, a political subdivision of the State of California, (hereinafter the "COUNTY") and HNTB Corporation, a Delaware corporation, (hereinafter "ENGINEER").

RECITALS

- A. COUNTY and ENGINEER have entered into an agreement entitled "Engineering Services Agreement for Jurupa Road Grade Separation Project between County of Riverside • Transportation Department and HNTB Corporation" that is dated March 13, 2018 (hereinafter "Agreement"). The Agreement provides the terms and conditions, scope of work, schedule and budget for the performance of professional and technical services necessary to obtain environmental clearance and prepare plans, specifications and estimates suitable for awarding a contract to construct the proposed grade separation.
- B. The original scope and budget for the project was based on a roadway overpass of the Union Pacific Railroad (UPRR) corridor. However, during the project development phase, it was determined that an underpass would better meet the goals of community development and would minimize impacts to the local businesses. As a result, the Jurupa Valley City Council approved the selection of a roadway underpass alternative. Amendment No. 1 to the Agreement (hereinafter "Amendment No. 1") was executed on September 22, 2020, by the COUNTY and ENGINEER to add several engineering and environmental tasks needed for the underpass alternative.
- C. During the development of the plans for the underpass, UPRR required that the COUNTY incorporate additional improvements to the UPRR facilities that were not scoped and budgeted in the Agreement or in Amendment No. 1. Amendment No. 2 to the Agreement (hereinafter "Amendment No. 2") was executed on March 29, 2022, by the COUNTY and ENGINEER to add several engineering and environmental tasks needed to incorporate additional improvements to the UPRR facilities that were not scoped and budgeted in the Agreement, or Amendment No. 1.

- D. As the project has progressed, additional engineering and environmental tasks are required to incorporate UPRR's improvements that were not anticipated in the scope and budget in the Agreement, Amendment No. 1, or Amendment No. 2.
- E. The parties desire to once again amend the Agreement to modify the scope of services provided by the ENGINEER and increase the contract budget.
- F. This Amendment No. 3 provides additional funding to make the necessary revisions to complete additional engineering and environmental tasks. This Amendment No. 3 will increase the funding as follows:

| Original authorization | \$5,357,952 |
|-------------------------------|--------------|
| Authorized by Amendment No. 1 | \$1,865,873 |
| Authorized by Amendment No. 2 | \$2,536,771 |
| Authorized by Amendment No. 3 | \$2,020,129 |
| Revised Total Authorized | \$11,780,725 |

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, the parties agree as follows:

- 1. Appendix A is amended to include the additional services as described in the attached Scope of Services entitled "AMENDMENT 3 APPENDIX A3 SCOPE OF SERVICES" attached hereto and incorporated herein.
- 2. Article VI Compensation and Appendix C• Article CV Cost Proposal are amended to increase the contract not to exceed amount by \$2,020,129 for a total not to exceed amount of \$11,780,725 in accordance with the attached Fee Proposal entitled "AMENDMENT 3• APPENDIX C3 JURUPA ROAD GRADE SEPARATION AMENDMENT NO. 3 FEE PROPOSAL" attached hereto and incorporated herein.
- 3. Except to the extent specifically modified or amended hereunder, all of the terms, covenants and conditions of the Agreement, Amendment No. 1, and Amendment No. 2 shall remain in full force and effect between the parties hereto.

IN WITNESS HEREOF, the parties hereto have caused this Amendment No. 3 to the Agreement to be duly executed this day and year first written above.

| 1 | APPROVALS | |
|---|--|-----------------------------|
| 2 | COUNTY Approvals | ENGINEER Approvals |
| 3 | RECOMMENDED FOR APPROVAL: | ENGINEER: |
| 456 | Male Jainter Dated: 2-21-23 | Rew Affabrum Dated: 2/16/23 |
| 7 | MARK LANCASTER | Kevin A. Habojan, P.E. |
| 8 | Director of Transportation | Senior Vice President |
| 10 | APPROVED AS TO FORM: | ENGINEER: |
| 11 | County Counsel | |
| 12 13 | | Pated: 2/16/23 |
| 14 | Danielle Maland | Juan Uribe, P.E. |
| 15 16 | Deputy County Counsel | Senior Vice President |
| 17 | APPROVAL BY THE BOARD OF SUPERVISORS | |
| 19 20 21 22 | Dated: 2/28/23 FRINTED NAME Chairman, Riverside County Board of Supervisors | |
| 24 | ATTEST | |
| 25 26 | Brundshich Dated: 2/18/23 | |
| 27 | KIMBERLY RECTOR | |
| 28 | Clerk of the Board (SEAL) | |

| APPROVALS | | |
|---|----------------------|-----------------------------|
| COUNTY Approvals | | ENGINEER Approvals |
| RECOMMENDED FOR APPR | ROVAL: | ENGINEER: |
| | | |
| | Dated: | Alem A Habri Dated: 2/16/23 |
| MARK LANCASTER | | Kevin A. Haboian, P.E. |
| Director of Transportation | | Senior Vice President |
| APPROVED AS TO FORM: | | ENGINEER: |
| County Counsel | Dated: | Dated: 2/16/2 |
| Danielle Maland | | Juan Uribe, P.E. |
| Deputy County Counsel | | Senior Vice President |
| APPROVAL BY THE BOARD | OF SUPERVISORS | |
| | Dated: | |
| PRINTED NAME Chairman, Riverside County B | Board of Supervisors | |
| ATTEST: | | |
| | Dated: | |
| KIMBERLY RECTOR | | |
| Clerk of the Board (SEAL) | | |

CERTIFICATE OF AUTHORITY

AND

POWER OF ATTORNEY

The undersigned, Vice President of HNTB Corporation, a Delaware corporation, (the "Corporation") hereby certifies that KEVIN A. HABOIAN has been authorized by the Board of Directors of the Corporation, commencing as of the date hereof, to enter into agreements and contracts for usual and customary architectural, engineering, planning, and management professional services, and to incur ordinary and necessary obligations in connection therewith, in the name of and on behalf of the Corporation, and the Corporation shall be bound thereby. The Corporation hereby ratifies and confirms any action taken by such individual pursuant to this certificate. Such authority shall expire as of May 31, 2023.

Date: May 13, 2022

By: To Ole

Thomas D. O'Grady

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AMENDMENT 3 • APPENDIX A3 • SCOPE OF SERVICES

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| 1 | | APPENDIX A • ARTICLE AI • INTRODUCTION |
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| 2 | Α. | PROJECT DESCRIPTION |
| 3 | | No Change. See Agreement and Amendment No. 1. |
| 4 | В. | LOCATION |
| 5 | | No Change. See Agreement. |
| 6 | C. | COORDINATION |
| 7 | | No Change. See Agreement. |
| 8 | D. | PHASES |
| 9 | | No Change. See Agreement. |
| 10 | E. | STANDARDS |
| 11 | | No Change. See Agreement. |
| 12 | F. | KEY PERSONNEL |
| 13 | | No Change. See Agreement. |
| 14 | | ARTICLE All • PROJECT ADMINISTRATION |
| 15 | A. | PROJECT MANAGEMENT PLAN |
| 16 | | ENGINEER will implement and monitor the Project Management Plan (PMP) for an additional 14 months, |
| 17 | | due to the additional reviews and submittals required by UPRR. |
| 18 | В. | QUALITY CONTROL PLAN |
| 19 | | ENGINEER will implement and monitor the Quality Control Plan for an additional 14 months, due to the |
| 20 | | additional reviews and submittals required by UPRR. |
| 21 | C. | BUDGETING |
| 22 | | ENGINEER will implement and monitor the Budgeting for an additional 14 months, due to the additional |
| 23 | | reviews and submittals required by UPRR. |
| 24 | D. | COST ACCOUNTING |
| 25 | | ENGINEER will implement and monitor the Cost Accounting for an additional 14 months, due to the |
| 26 | | additional reviews and submittals required by UPRR. |
| 27 | E. | SCHEDULING |
| 28 | | ENGINEER will monitor and update the schedule for the project for an additional 14 months, due to the |
| 29 | Eng | additional reviews and submittals required by UPRR. ineering Services Agreement • Scope of Services • Amendment No. 3 |

| 1 | F. | CONTRACT ADMINISTRATION AND MEETINGS |
|----|----|--|
| 2 | | Project Management and Administration |
| 3 | | Additional 14 months of project management is required by the ENGINEER for the continuing design |
| 4 | | efforts related to gaining approval of UPRR's track and structure plans. |
| 5 | | 2. Project Meetings |
| 6 | | ENGINEER will attend up to 14 additional monthly PDT meetings for resolution of issues and to |
| 7 | | apprise the participating agencies of the progress of the PROJECT. The ENGINEER shall attend up |
| 8 | | to 30 additional meetings for agency coordination and project coordination. |
| 9 | | If additional meetings are needed due to the quality and inaccuracy of the ENGINEER's submittals, |
| 10 | | then the additional meetings shall be scheduled and conducted by the ENGINEER. Any costs incurred |
| 11 | | by the ENGINEER for these meetings shall be at the expense of the ENGINEER. |
| 12 | G. | CONTRACT DELIVERABLES |
| 13 | | ENGINEER will manage additional submittals for UPRR track, UPRR bridge, Rutile Street at-grade |
| 14 | | UPRR crossing, and culvert extension submittals. |
| 15 | Н. | OUTREACH |
| 16 | | No Change. See Agreement. |
| 17 | I. | UNION PACIFIC PAYMENTS |
| 18 | | No Change. See Amendment No. 1. |
| 19 | | ARTICLE AIII • PLANNING AND PROJECT DEVELOPMENT |
| 20 | A. | RESEARCH AND DATA GATHERING |
| 21 | | No Change. See Agreement. |
| 22 | В. | PERMITS |
| 23 | | UPRR is requiring a separate right-of-entry permit to perform four (4) additional geotechnical borings for |
| 24 | | the extension of the concrete culvert to accommodate UPRR's improvements. ENGINEER will complete |
| 25 | | all the tasks necessary to obtain the right-of-entry permit. |
| 26 | C. | DESIGN SURVEYS |
| 27 | | No Change. See Agreement. |

D. PRELIMINARY GEOTECHNICAL INVESTIGATIONS

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| 1 | | | No Change. See Agreement. |
|----|----|-----|---|
| 2 | | 2. | Phase 1 Environmental Site Assessment |
| 3 | | | No Change. See Agreement. |
| 4 | | 3. | Aerially Deposited Lead (ADL) Survey |
| 5 | | | No Change. See Agreement. |
| 6 | | 4. | Phase II Environmental Site Assessment |
| 7 | | | No Change. See Amendment No. 1. |
| 8 | | | Task 1 – Commercial Structure Investigation / Former Agricultural Use |
| 9 | | | No Change. See Amendment No. 1. |
| 10 | | | Task 2 – Soil Disposal Profiling |
| 11 | | | No Change. See Amendment No. 1. |
| 12 | | | Task 3 – Lead and Asbestos Survey |
| 13 | | | No Change. See Amendment No. 1. |
| 14 | | 5. | Bly Channel Geotechnical Investigation |
| 15 | | | Task 1 – Field Preparation and Permit |
| 16 | | | No Change. See Amendment No. 1. |
| 17 | | | Task 2 – Field Exploration Program |
| 18 | | | No Change. See Amendment No. 1. |
| 19 | | | Task 3 – Laboratory Testing |
| 20 | | | No Change. See Amendment No. 1. |
| 21 | | | Task 4 – Geotechnical Analyses and Project Management |
| 22 | | | No Change. See Amendment No. 1. |
| 23 | | | Task 5 –Report Preparation/Deliverables |
| 24 | | | No Change. See Amendment No. 1. |
| 25 | E. | PL | ANNING STUDIES |
| 26 | | | No Change. See Agreement and Amendment No. 1. |
| 27 | F. | VIS | SUAL AIDS |
| 28 | | | No Change. See Agreement. |
| 29 | G. | EN | VIRONMENTAL DETERMINATION AND ENVIRONMENTAL ISSUES |

G. ENVIRONMENTAL DETERMINATION AND ENVIRONMENTAL ISSUES Engineering Services Agreement • Scope of Services • Amendment No. 3

| 1 | | No Changes. See Amendment No. 2. |
|----|------|--|
| 2 | I. | Process extension of the 404 and 401 permits |
| 3 | | No Changes. See Amendment No. 2. |
| 4 | II. | Update PD/Limits in the Southern area of the current limits to accommodate UPRR's preferred signal |
| 5 | | pad location. |
| 6 | | No Changes. See Amendment No. 2. |
| 7 | 1 | . Water Quality and Erosion |
| 8 | | No Change. See Agreement. |
| 9 | 2 | . Floodplain |
| 10 | | UPPR is requesting an additional floodplain analysis for the culvert extension. ENGINEER to |
| 11 | | coordinate reviews and resolution with the City of Jurupa Valley (CITY) to determine that the proposed |
| 12 | | culvert modification does not pose a significant increase in flood hazard. |
| 13 | 3 | . Noise Study Report (NSR) |
| 14 | | No Change. See Agreement. |
| 15 | 4 | . Cultural Resources Report |
| 16 | | No Change. See Amendment No. 2. |
| 17 | 5 | . Community Impact Assessment Memorandum |
| 18 | | No Change. See Agreement. |
| 19 | 6 | . Preparation and Processing of Regulatory Permits |
| 20 | | No Change. See Amendment No. 2. |
| 21 | 7 | . Preparation and Processing of MSHCP Consistency Determination and DBESP |
| 22 | | No Change. See Amendment No. 2. |
| 23 | Н. Р | RELIMINARY ENGINEERING REPORT |
| 24 | N | o Change. See Agreement. |
| 25 | I. G | EOMETRIC APPROVAL DRAWINGS |
| 26 | N | o Change. See Agreement. |
| 27 | J. D | DESIGN DRAINAGE REPORT |
| 28 | U | PRR is requiring a separate drainage study report for the culvert extension at MP 48.56 which is needed |
| 29 | | o accommodate final UPRR directed track alignment. ENGINEER will complete this drainage study report. Descring Services Agreement • Scope of Services • Amendment No. 3 |

| 1 | | The report will be submitted as part of the 60% and 100% UPRR culvert extension packages and follow |
|----|-----|--|
| 2 | | the same submittal schedule. |
| 3 | K. | GEOTECHNICAL DESIGN REPORT |
| 4 | | UPRR is requesting four (4) additional borings for the extension of a UPRR concrete culvert that will |
| 5 | | accommodate UPPR's improvements. ENGINEER will coordinate with UPRR to obtain a right of entry |
| 6 | | permit needed to obtain access to complete the four (4) subsurface borings for the culvert extension. |
| 7 | | ENGINEER will also coordinate with COUNTY, CITY, and utility owners to obtain public access needed to |
| 8 | | obtain the four (4) subsurface borings for the culvert extension. |
| 9 | | ENGINEER will prepare a report to supplement the geotechnical design report required by UPRR for the |
| 10 | | culvert extension. |
| 11 | L. | RIGHT-OF-WAY MAPS |
| 12 | | Additional reviews and updates will be required for the Right of Way maps based on current alignment |
| 13 | | revisions, configuration changes, and right of way negotiations as requested from UPRR. See Article AV. |
| 14 | | Roadway, Section E. Miscellaneous Plans, 2. Right of Way Requirements Plans for additional work |
| 15 | | associated with Right of Way Requirements maps. |
| 16 | M. | AGREEMENTS |
| 17 | | No Change. See Agreement. |
| 18 | N. | UTILITY COORDINATION |
| 19 | | No Changes. See Amendment No. 2. |
| 20 | Ο. | MISCELLANEOUS DESIGN SUPPORT |
| 21 | | Design Exceptions |
| 22 | | No Changes. See Amendment No. 2. |
| 23 | | 2. Traffic Management Plan |
| 24 | | No Change. See Agreement. |
| 25 | | 3. Track Design |
| 26 | | No Change. See Amendment No. 2. |
| 27 | | Task 1: Project Meetings |
| 28 | | Due to the delay in obtaining UPRR's plan approval, ENGINEER will need to participate in an |
| 29 | Eng | additional 14 weekly bi-design progress meetings. All meetings will be conference calls with screen pineering Services Agreement • Scope of Services • Amendment No. 3 |

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share software or in person as permitted by jurisdictional authorities and COUNTY policies. It is assumed that 3 representatives from the ENGINEER's track and track drainage design team will be present. These meetings will be 2 hours in length.

Any additional submittal meetings conducted by the ENGINEER due to the quality and inaccuracy of the submittals will be at the expense of the ENGINEER.

Task 2: UPRR Design

See Article AV. Roadway, Section E. Miscellaneous Plans, 3. Track Plans for additional work associated with the 100% track plans.

4. Pump Station Design

No Change. See Amendment No. 1.

5. Rutile Street Crossing Plans Package and CPUC GO-88 Application

The ENGINEER will prepare a separate plans package for UPRR approval and bidding to upgrade and modernize the Rutile Street at-grade UPRR crossing. The plans package will include the following:

- Civil sheets nine (9) sheets
- Signals sheets two (2) sheets
- Rutile Street quantities

The ENGINEER will prepare an application package for approval by the California Public Utilities Commission (CPUC) to modify an Existing Rail Crossing (GO-88 Application) for review by UPRR, CITY, and the COUNTY. The application package includes a narrative of approximately 10 pages, plans (track and roadway) and exhibits, design documentation, and signal pre-emption documentation. The ENGINEER will prepare three (3) GO-88 application updates and modified plans in response to COUNTY, CPUC, UPRR, and CITY to obtain final approval.

6. Jurupa Grade Separation CPUC GO-88 Application

The ENGINEER will prepare an application package for approval by CPUC to modify the Existing Rail Crossing to a Grade Separation (GO-88 Application) for review by UPRR, CITY, and the COUNTY. The application package includes a narrative of approximately 10 pages, plans (track, structure, and roadway) and exhibits, design documentation, and signal estimate documentation.

The ENGINEER will prepare three (3) GO-88 application updates and modified plans in response to

| 1 | | ARTICLE AIV • STRUCTURES |
|----|-----|---|
| 2 | | Sections A through I - roadway bridge over roadway. Section J - UPRR bridge over roadway. |
| 3 | A. | STRUCTURE TYPE SELECTION AND BRIDGE GENERAL PLANS |
| 4 | | No Change. See Agreement and Amendment No. 1. |
| 5 | В. | GEOTECHNICAL COORDINATION AND FOUNDATION REPORT |
| 6 | | No Change. See Amendment No. 2. |
| 7 | C. | STRUCTURAL DESIGN AND CALCULATIONS |
| 8 | | No Change. See Amendment No. 2. |
| 9 | D. | INDEPENDENT CHECK REVIEW AND QUALITY CONTROL |
| 10 | | No Change. See Amendment No. 2. |
| 11 | E. | STRUCTURE SPECIFICATIONS & ESTIMATES |
| 12 | | No Change. See Amendment No. 2. |
| 13 | F. | INITIAL STRUCTURE PS&E (65% UNCHECKED PLANS) |
| 14 | | No Change. See Amendment No. 2. |
| 15 | G. | INTERMEDIATE STRUCTURE PS&E (90% CHECKED PLANS) |
| 16 | | No Change. See Amendment No. 2. |
| 17 | Н. | DRAFT FINAL STRUCTURE PS&E (95%) |
| 18 | | No Change. See Agreement and Amendment No. 1. |
| 19 | I. | FINAL STRUCTURE PS&E |
| 20 | | No Change. See Agreement and Amendment No. 1. |
| 21 | J. | UNION PACIFIC RAILROAD STRUCTURE PLAN SUBMITTAL AND APPROVAL PROCESS |
| 22 | | After initial approval of the UPRR structure plans, a change was requested to modify the field welded |
| 23 | | plates to a bolted connection. This involves extensive calculations and coordination between the supplier |
| 24 | | and UPRR as well as minor plan changes. ENGINEER to coordinate between fabricator/supplier and |
| 25 | | UPRR design to gain approval of calculations, plans, and specifications for the bolted connection |
| 26 | K. | BOX CULVERT EXTENSION |
| 27 | | Work associated with the culvert extension has progressed since Amendment 2 however, several |
| 28 | | guidelines developed for this project have been modified by UPRR during this culvert extension review. |
| 29 | Eng | Additional track, drainage, and geotechnical design/coordination is needed from the ENGINEER. The ineering Services Agreement • Scope of Services • Amendment No. 3 |

| 1 | | culvert extension will accommodate mainline tracks and temporary tracks, but not accommodate UPRR's |
|----|----|---|
| 2 | | future track. |
| 3 | | ENGINEER will respond to additional clarifications and comments provided by UPRR and update |
| 4 | | submittals accordingly. |
| 5 | | If the COUNTY deems portions of a submittal do not follow applicable standards, ENGINEER will correct |
| 6 | | the deficiencies in the submittal at their own expense. |
| 7 | | The Engineer assumes the following additional for submittals for the culvert extension: |
| 8 | | 10% Submittal: two (2) reviews |
| 9 | | 30% Submittal: three (3) review |
| 10 | | 60% Submittal: Anticipated three (3) reviews (one additional) |
| 11 | | 100% Submittal: two (2) reviews (one additional) |
| 12 | | ARTICLE AV • ROADWAY |
| 13 | A. | BASIC ROADWAY PLANS |
| 14 | | ENGINEER will revise Jurupa Road roadway plans to incorporate trackwork changes needed to |
| 15 | | accommodate UPRR and private property access and local drainage conditions. This will require 4 to |
| 16 | | 6 plan sheets to be revised. |
| 17 | В. | CALCULATIONS |
| 18 | | UPRR directed changes to both the mainline and spur tracks require minor adjustments to the roadway |
| 19 | | and grading plans as well as updated quantities. ENGINEER will prepare updated roadway plans, |
| 20 | | earthwork calculations and quantities and submit a plan design change once the 100% track plans are |
| 21 | | final approved. |
| 22 | C. | DRAINAGE PLANS |
| 23 | | 1. Storm Drain Plans |
| 24 | | No Change. See Amendment No. 2. |
| 25 | | 2. Bly Channel Culvert Extension |
| 26 | | No Change. See Amendment No. 2. |
| 27 | D. | TRAFFIC AND ELECTRICAL PLANS |
| 28 | | No Change. See Agreement and Amendment No. 1. |

| 1 | 1. | Utility Composite Plans |
|----|---------|---|
| 2 | | No Change. See Agreement and Amendment No. 1. |
| 3 | 2. | Right-of-Way Requirements Plans |
| 4 | | During UPRR's review of the 100% track plans, UPRR requested some modifications to the track and |
| 5 | | structural plans. ENGINEER will need to update the right of way requirement plans to accommodate |
| 6 | | UPRR's requested revisions. The updated right of way requirement maps will be used as the |
| 7 | | supporting documentation for the Construction and Maintenance Agreement needed to complete the |
| 8 | | construction of the UPRR facilities. |
| 9 | 3. | Track Plans |
| 10 | | UPRR requested changes as part of their review of the 100% track plans. ENGINEER needs to extend |
| 11 | | the limits of construction to incorporate modifications requested by UPRR. These modifications will |
| 12 | | require additional plan sheets and quantity changes. ENGINEER will prepare updated track plans, |
| 13 | | earthwork calculations, and quantities and submit plans to UPRR for approval. It is assumed that an |
| 14 | | additional 17 plan sheets will be needed to accommodate UPRR's comments. The following are the |
| 15 | | additional 17 plan sheets: |
| 16 | | Quantities: 1 additional sheet |
| 17 | | Typical Cross Sections: 9 additional sheets |
| 18 | | Access Details: 6 additional sheets |
| 19 | | Drainage Details: 1 additional sheet |
| 20 | | Total Count: Net 17 additional sheets (excluding cross sections) |
| 21 | | If the COUNTY deems portions of a submittal do not follow applicable standards, ENGINEER will |
| 22 | | correct the deficiencies in the submittal at their own expense. |
| 23 | 4. | Retaining Wall Plans |
| 24 | | No Change. See Agreement and Amendment No. 1. |
| 25 | 4. | Pump Station Plans |
| 26 | | No Change. See Agreement and Amendment No. 1. |
| 27 | 5. | Parking Lot |
| 28 | | ENGINEER will redesign Jack-In-The-Box Parking Lot based on design configuration changes due to |
| 29 | Enginee | UPRR track comments. This revision is assumed to be one revision once track plans are approved ering Services Agreement • Scope of Services • Amendment No. 3 |

| 1 | | and as directed by the COUNTY. |
|----|----|---|
| 2 | F. | INTERMEDIATE REVIEWS |
| 3 | | No Change. See Agreement and Amendment No. 1. |
| 4 | G. | SPECIFICATIONS AND ESTIMATE |
| 5 | | Review and update railroad specifications to accommodate UPRR Requirements. No changes to the |
| 6 | | roadway specifications are coved in the amendment. |
| 7 | Н. | QUALITY CONTROL |
| 8 | | Implement quality control reviews on additional design submittals consistent with the project quality |
| 9 | | management plan. |
| 10 | I. | DRAFT PS&E (95% COMPLETE) |
| 11 | | No Changes. See Amendment No. 2. |
| 12 | J. | FINAL PS&E (100% COMPLETE) |
| 13 | | No Changes. See Amendment No. 2. |
| 14 | K. | CONSTRUCTABILITY REVIEW |
| 15 | | No Change. See Agreement and Amendment No. 1. |
| 16 | L. | SCHEDULE OF SERVICES |
| 17 | | UPRR Track Submittals |
| 18 | | March 2022 - 90% UPRR Track Submittal |
| 19 | | April 2022 - 90% UPRR Track Resubmittal #1 |
| 20 | | June 2022 - 100% UPRR Track Submittal |
| 21 | | August 2022 - 100% UPRR Track Resubmittal #1 |
| 22 | | September 2022 - 100% UPRR Track Resubmittal #2 |
| 23 | | October 2022 – 100% UPRR Track Resubmittal #3 |
| 24 | | Pending – 100% UPRR Track Resubmittal #4 |
| 25 | | UPRR Culvert Extension Structure Submittals |
| 26 | | January 2022 - 10% UPRR (Structure) Culvert Extension Submittal |
| 27 | | March 2022 – 10% UPRR (Structure) Culvert Extension Resubmittal #1 |
| 28 | | April 2022 - 30% UPRR (Structure) Culvert Extension Submittal |
| 29 | | September 2022 - 60% UPRR (Structure) Culvert Extension Submittal |

Engineering Services Agreement • Scope of Services • Amendment No. 3

| 1 | | Pending – 60% UPRR (Structure) Culvert Extension Resubmittal #1 |
|----|----|--|
| 2 | | Pending – 60% UPRR (Structure) Culvert Extension Resubmittal #2 |
| 3 | | Pending – 100% UPRR (Structure) Culvert Extension Submittal |
| 4 | | Pending – 100% UPRR (Structure) Culvert Extension Resubmittal #1 |
| 5 | | |
| 6 | | ARTICLE AVI • CONSTRUCTION BIDDING PHASE |
| 7 | | No Change. See Amendment No. 2. |
| 8 | | ARTICLE AVII • CONSTRUCTION SUPPORT PHASE |
| 9 | | Additional design services during construction support are needed from the ENGINEER to complete the |
| 10 | | project. All provision included in Article AVII of the original Engineering Services Agreement apply to this |
| 11 | | additional work. In addition, Design Services During Construction for Environmental is added to the existing |
| 12 | | scope for Phase IV of the work according to the terms set forth in Article AVII in the original Engineering |
| 13 | | Services Agreement. This amendment includes an additional 12 months of Phase IV support. |
| 14 | | ARTICLE AVIII • COMPUTER FACILITIES |
| 15 | A. | CALCULATIONS |
| 16 | | No Change. See Agreement. |
| 17 | В. | COMPUTER AIDED DRAFTING AND DESIGN (CADD) |
| 18 | | No Change. See Agreement. |
| 19 | | |
| 20 | | ARTICLE AIX • VALUE ENGINEERING |
| 21 | | No Change. See Agreement. |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
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29

AMENDMENT 3 • APPENDIX C3 • JURUPA ROAD GRADE SEPARATION AMENDMENT NO. 3 FEE PROPOSAL

January 19, 2023

| COMPANIES | PHASE I | PHASE II | PHASE III | PHASE IV | Phase All Contingency | TOTAL |
|--|--------------------|--------------------|------------------|--------------------|--------------------------|---------------------|
| Original Budget + Amendment 1 + Amendment 2 | \$ 2,945,942.29 | \$ 5,491,447.72 | \$ 187,327.16 | \$ 935,878.64 | \$ 200,000.00 | \$ 9,760,595.8 |
| AMENDMENT (No. 3) | \$ 399,112.67 | \$ 1,029,422.87 | | \$ 591,592.81 | | \$ 2,020,128.3 |
| HNTB Prime | \$ 377,058.06 | \$ 1,029,422.87 | | \$ 542,675.65 | | \$ 1,949,156.5 |
| Advanced Civil Technologies (ACT) Third Party Coord/Construction Staging | | | | | | |
| Arellano Associates Public Outreach | | | | | | |
| Leighton Consulting Geotechnical & Haz Mat Phase I | | | | \$ 10,022.25 | | \$ 10,022.2 |
| LIN Consulting Traffic Engineering | | | | \$ 18,964.26 | | \$ 18,964.20 |
| Safeprobe Potholing | | | | | | |
| Tatsumi and Partners, Inc. Landscape Architecture | | | | \$ 19,930.64 | | \$ 19,930.64 |
| Towill Right-of-Way Requirements Map | \$ 22,054.61 | | | | | \$ 22,054.6 |
| Vandermost Consulting Services (VCS) Environmental Services | | | | | | |
| GRAND TOTAL | \$ 3,345,054.96 | \$ 6,520,870.59 | \$ 187,327.16 | \$ 1,527,471.45 | \$ 200,000.00 | \$ 11,780,724.16 |

Phase I Preliminary Engineering & Environmental

Phase II Plans, Specs & Estimates

Phase III Bid Support

Phase IV Construction Support

January 19, 2023

| COMPANIES | PHASE I | PHASE II | PHASE III | PHASE IV | TOTAL |
|--|------------------|--------------------|-----------|------------------|--------------------|
| HNTB Prime | \$ 377,058.06 | \$ 1,029,422.87 | | \$ 542,675.65 | \$ 1,949,156.58 |
| Advanced Civil Technologies (ACT) Third Party Coord/Construction Staging | | | | | |
| Arellano Associates Public Outreach | | | | | |
| Leighton Consulting Geotechnical & Haz Mat Phase I | | | | \$ 10,022.25 | \$ 10,022.25 |
| LIN Consulting Traffic Engineering | | | | \$ 18,964.26 | \$ 18,964.26 |
| Safeprobe Potholing | | | | | |
| Tatsumi and Partners, Inc. Landscape Architecture | | | | \$ 19,930.64 | \$ 19,930.64 |
| Towill Right-of-Way Requirements Map | \$ 22,054.61 | | | | \$ 22,054.61 |
| Vandermost Consulting Services (VCS) Environmental Services | | | | | |
| TOTAL | \$ 399,112.67 | \$ 1,029,422.87 | | \$ 591,592.81 | \$ 2,020,128.35 |

Phase I Preliminary Engineering & Environmental

Phase II Plans, Specs & Estimates

Phase III Bid Support

Phase IV Construction Support

| FEE PROPOSAL WORKSHEET | | |
|------------------------------|-----------------|------------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| HNTB | Project Summary | All Phases |
| PROJECT: | | DATE: |
| Jurupa Road Grade Separation | | January 19, 2023 |

| PERSONNEL | POSITION | | HOURS | | RATE | AMOUNT |
|-----------------|---------------------------------|-------------|--------|-----|-----------------|--------------|
| Adam Dayhoff | Project Manager | | 269 | @ | \$132.00 | \$35,508.00 |
| Shannon Willits | DPM/Lead Civil | | 1,322 | @ | \$91.00 | \$120,302.00 |
| Kelly Lumen | Quality Manager | | 196 | @ | \$74.00 | \$14,504.00 |
| Steve Greene | Lead Traffic | | 100 | @ | \$110.00 | \$11,000.00 |
| | Technical Manager | | 1,162 | @ | \$110.00 | \$127,820.00 |
| | Technical Lead | | 1,155 | @ | \$84.00 | \$97,020.00 |
| | Sr. Project Engineer | | 872 | @ | \$74.00 | \$64,528.00 |
| | Project Engineer/Planner | | 535 | @ | \$60.00 | \$32,100.00 |
| | Engineer/Planner III | | 995 | @ | \$46.00 | \$45,770.00 |
| | Engineer II | | 1,490 | @ | \$40.00 | \$59,600.00 |
| | Engineer I | | 415 | @ | \$37.00 | \$15,355.00 |
| | CADD-Civil | | 1,095 | @ | \$49.00 | \$53,655.00 |
| | Project Analyst | | 851 | @ | \$49.00 | \$41,699.00 |
| | Administrative Assistant | | | | \$32.00 | |
| Nien Wang | Lead Structures | | | | \$110.00 | |
| | Structures Sr. Project Engineer | | | | \$76.00 | |
| | Structures Project Engineer | | | | \$65.00 | |
| | Structures Engineer III | | | | \$53.00 | |
| | Structures Engineer II | | | | \$51.00 | |
| | CADD-Structures | | | | \$65.00 | |
| | | | | | | |
| | | | | | | |
| | | TOTAL HOURS | 10 457 | TOT | AL DIRECT LABOR | \$718 861 00 |

TOTAL HOURS 10,457 TOTAL DIRECT LABOR \$718,861.00

MULTIPLIERS

| ESCALATION @ | | (Rates Vary by Phase) | |
|----------------------|--------|---|----------------|
| OVERHEAD @ | 97.96% | (of Direct Labor + Escalation) | \$704,196.24 |
| PAYROLL ADDITIVES @ | 48.27% | (of Direct Labor + Escalation) | \$346,994.20 |
| PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$177,005.14 |
| | | TOTAL MULTIPLIERS | \$1,228,195.58 |

OTHER DIRECT COSTS ... Billed at Actual Cost ...

| ITEM | QUANTITY | UNIT | | UNIT COST | AMOUNT |
|-------------------------------|----------|------|---|-------------|--------|
| Travel/Mileage | 3889 | MI | @ | \$0.54 | 2100 |
| Traffic Counts | | LS | | \$18,000.00 | |
| Printing, Plotting & Copies | | LS | | \$5,000.00 | |
| Exhibits, Plotting & Mounting | | LS | | \$2,500.00 | |
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TOTAL ODC'S \$2,100.00

SUB CONSULTANT SERVICES

| SUB CONSULTANT SERVICES | | | | |
|--------------------------------------|------------|-------------|-------|-------------|
| COMPANY | LABOR | MULTIPLIERS | ODC's | TOTAL |
| Advanced Civil Technologies (ACT) | | | | |
| Arellano Associates | | | | |
| Leighton Consulting | \$3,192.41 | \$6,829.84 | | \$10,022.25 |
| LIN Consulting | \$6,505.75 | \$12,458.51 | | \$18,964.26 |
| Safeprobe | | | | |
| Tatsumi and Partners, Inc. | \$6,915.56 | \$13,015.08 | | \$19,930.64 |
| Towill | \$7,032.99 | \$15,021.62 | | \$22,054.61 |
| Vandermost Consulting Services (VCS) | | | | |

TOTAL SUBCONSULTANT SERVICES \$70,971.77

TOTAL \$2,020,128.35

| FEE PROPOSAL WORKSHEET | | |
|------------------------------|---|------------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| нитв | Preliminary Engineering & Environmental | Phase I |
| PROJECT: | | DATE: |
| Jurupa Road Grade Separation | | January 19, 2023 |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
|-----------------|---------------------------------|-----------------|------|-----------------|--------------|
| Adam Dayhoff | Project Manager | 162 | @ | \$132.00 | \$21,384.00 |
| Shannon Willits | DPM/Lead Civil | 434 | @ | \$91.00 | \$39,494.00 |
| Kelly Lumen | Quality Manager | 66 | @ | \$74.00 | \$4,884.00 |
| Steve Greene | Lead Traffic | | | \$110.00 | |
| | Technical Manager | 185 | @ | \$110.00 | \$20,350.00 |
| | Technical Lead | 60 | @ | \$84.00 | \$5,040.00 |
| | Sr. Project Engineer | 80 | @ | \$74.00 | \$5,920.00 |
| | Project Engineer/Planner | 145 | @ | \$60.00 | \$8,700.00 |
| | Engineer/Planner III | | | \$46.00 | |
| | Engineer II | | | \$40.00 | |
| | Engineer I | 120 | @ | \$37.00 | \$4,440.00 |
| | CADD-Civil | | | \$49.00 | |
| | Project Analyst | 576 | @ | \$49.00 | \$28,224.00 |
| | Administrative Assistant | | | \$32.00 | |
| Nien Wang | Lead Structures | | | \$110.00 | |
| | Structures Sr. Project Engineer | | | \$76.00 | |
| | Structures Project Engineer | | | \$65.00 | |
| | Structures Engineer III | | | \$53.00 | |
| | Structures Engineer II | | | \$51.00 | |
| | CADD-Structures | | | \$65.00 | |
| | | | | | |
| | TO | TAL HOURS 1.828 | TOTA | AL DIRECT LABOR | \$138.436.00 |

TOTAL HOURS 1,828 TOTAL DIRECT LABOR \$138,436.00

MULTIPLIERS

| | | TOTAL MULTIPLIERS | \$236,522.06 |
|----------------------|--------|---|--------------|
| PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$34,087.10 |
| PAYROLL ADDITIVES @ | 48.27% | (of Direct Labor + Escalation) | \$66,823.06 |
| OVERHEAD @ | 97.96% | (of Direct Labor + Escalation) | \$135,611.91 |
| ESCALATION @ | | (of Direct Labor) | |

OTHER DIRECT COSTS ••• Billed at Actual Cost •••

| O III EIK BIIKEOT GOOTG | Dilled at Actual Cost | | | | |
|-------------------------------|-----------------------|----------|------|-------------|------------|
| | ITEM | QUANTITY | UNIT | UNIT COST | AMOUNT |
| Travel/Mileage | | 3889 | MI | @ \$0.54 | \$2,100.00 |
| Traffic Counts | | | LS | \$18,000.00 | |
| Printing, Plotting & Copies | | | LS | \$5,000.00 | |
| Exhibits, Plotting & Mounting | | | LS | \$2,500.00 | |
| Travel/Mileage | | | LS | \$2,100.00 | |
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TOTAL ODC'S \$2,100.00

SUB CONSULTANT SERVICES

| COMPANY | LABOR | MULTIPLIERS | ODC's | TOTAL |
|--------------------------------------|------------|-------------|-------|-------------|
| Advanced Civil Technologies (ACT) | | | | |
| Arellano Associates | | | | |
| Leighton Consulting | | | | |
| LIN Consulting | | | | |
| Safeprobe | | | | |
| Tatsumi and Partners, Inc. | | | | |
| Towill | \$7,032.99 | \$15,021.62 | | \$22,054.61 |
| Vandermost Consulting Services (VCS) | | | | |

TOTAL SUBCONSULTANT SERVICES \$22,054.61

TOTAL \$399,112.67

| FEE PROPOSAL WORKSHEET | | |
|------------------------------|--------------------------|------------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| HNTB | Plans, Specs & Estimates | Phase II |
| PROJECT: | | DATE: |
| Jurupa Road Grade Separation | | January 19, 2023 |

| PERSONNEL | POSITION | | HOURS | | RATE | AMOUNT |
|-----------------|---------------------------------|-------------|-------|------|-----------------|--------------|
| Adam Dayhoff | Project Manager | | 53 | @ | \$132.00 | \$6,996.00 |
| Shannon Willits | DPM/Lead Civil | | 428 | @ | \$91.00 | \$38,948.00 |
| Kelly Lumen | Quality Manager | | 5 | @ | \$74.00 | \$370.00 |
| Steve Greene | Lead Traffic | | | | \$110.00 | |
| | Technical Manager | | 602 | @ | \$110.00 | \$66,220.00 |
| | Technical Lead | | 930 | @ | \$84.00 | \$78,120.00 |
| | Sr. Project Engineer | | 547 | @ | \$74.00 | \$40,478.00 |
| | Project Engineer/Planner | | 310 | @ | \$60.00 | \$18,600.00 |
| | Engineer/Planner III | | 620 | @ | \$46.00 | \$28,520.00 |
| | Engineer II | | 1,170 | @ | \$40.00 | \$46,800.00 |
| | Engineer I | | 295 | @ | \$37.00 | \$10,915.00 |
| | CADD-Civil | | 900 | @ | \$49.00 | \$44,100.00 |
| | Project Analyst | | | | \$49.00 | |
| | Administrative Assistant | | | | \$32.00 | |
| Nien Wang | Lead Structures | | | | \$110.00 | |
| | Structures Sr. Project Engineer | | | | \$76.00 | |
| | Structures Project Engineer | | | | \$65.00 | |
| | Structures Engineer III | | | | \$53.00 | |
| | Structures Engineer II | | | | \$51.00 | |
| | CADD-Structures | | | | \$65.00 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | TOTAL HOURS | 5.860 | TOTA | AL DIRECT LABOR | \$380.067.00 |

TOTAL HOURS 5,860 TOTAL DIRECT LABOR \$380,067.00

MULTIPLIERS

| ESCALATION @ | | (of Direct Labor) | |
|----------------------|--------|---|--------------|
| OVERHEAD @ | 97.96% | (of Direct Labor + Escalation) | \$372,313.63 |
| PAYROLL ADDITIVES @ | 48.27% | (of Direct Labor + Escalation) | \$183,458.34 |
| PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$93,583.90 |
| | | TOTAL MULTIPLIERS | \$649,355.87 |

OTHER DIRECT COSTS ••• Billed at Actual Cost •••

| | ITEM | QUANTITY | UNIT | UNIT COST | AMOUNT |
|-------------------------------|------|----------|------|-------------|--------|
| Travel/Mileage | | | LS | \$0.54 | |
| Traffic Counts | | | LS | \$18,000.00 | |
| Printing, Plotting & Copies | | | LS | \$5,000.00 | |
| Exhibits, Plotting & Mounting | | | LS | \$2,500.00 | |
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TOTAL ODC'S

SUB CONSULTANT SERVICES

| 000 0011002171111 021111020 | | | | |
|--------------------------------------|-------|-------------|-------|-------|
| COMPANY | LABOR | MULTIPLIERS | ODC's | TOTAL |
| Advanced Civil Technologies (ACT) | | | | |
| Arellano Associates | | | | |
| Leighton Consulting | | | | |
| LIN Consulting | | | | |
| Safeprobe | | | | |
| Tatsumi and Partners, Inc. | | | | |
| Towill | | | | |
| Vandermost Consulting Services (VCS) | | | | |

TOTAL SUBCONSULTANT SERVICES

TOTAL \$1,029,422.87

| FEE PROPOSAL WORKSHEET | | |
|------------------------------|----------------|------------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| HNTB | Bid Support | Phase III |
| PROJECT: | | DATE: |
| Jurupa Road Grade Separation | | January 19, 2023 |

| PERSONNEL | POSITION | HOURS | RATE | AMOUNT |
|-----------------|---------------------------------|-------|--------------------|--------|
| Adam Dayhoff | Project Manager | | \$132.00 | |
| Shannon Willits | DPM/Lead Civil | | \$91.00 | |
| Kelly Lumen | Quality Manager | | \$74.00 | |
| Steve Greene | Lead Traffic | | \$110.00 | |
| | Technical Manager | | \$110.00 | |
| | Technical Lead | | \$84.00 | |
| | Sr. Project Engineer | | \$74.00 | |
| | Project Engineer/Planner | | \$60.00 | |
| | Engineer/Planner III | | \$46.00 | |
| | Engineer II | | \$40.00 | |
| | Engineer I | | \$37.00 | |
| | CADD-Civil | | \$49.00 | |
| | Project Analyst | | \$49.00 | |
| | Administrative Assistant | | \$32.00 | |
| Nien Wang | Lead Structures | | \$110.00 | |
| | Structures Sr. Project Engineer | | \$76.00 | |
| | Structures Project Engineer | | \$65.00 | |
| | Structures Engineer III | | \$53.00 | |
| | Structures Engineer II | | \$51.00 | |
| | CADD-Structures | | \$65.00 | |
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| | | | | |
| | | | | |
| | | | | |
| | TOTAL HOURS | | TOTAL DIRECT LABOR | |

TOTAL HOURS TOTAL DIRECT LABOR

MULTIPLIERS

| ESCALATION @ | | (of Direct Labor) |
|--------------------------|------|---|
| OVERHEAD @ 97.9 | 96% | (of Direct Labor + Escalation) |
| PAYROLL ADDITIVES @ 48.2 | 27% | (of Direct Labor + Escalation) |
| PROFIT (FIXED FEE) @ 10 | 0.0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) |

TOTAL MULTIPLIERS

OTHER DIRECT COSTS ... Billed at Actual Cost ...

| | Billed at 7 totali Coot | . (5) | | | |
|-------------------------------|-------------------------|----------|------|-------------|--------|
| | ITEM | QUANTITY | UNIT | UNIT COST | AMOUNT |
| Travel/Mileage | | | LS | \$0.54 | |
| Traffic Counts | | | LS | \$18,000.00 | |
| Printing, Plotting & Copies | | | LS | \$5,000.00 | |
| Exhibits, Plotting & Mounting | | | LS | \$2,500.00 | |
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TOTAL ODC'S

SUB CONSULTANT SERVICES

| COMPANY | LABOR | MULTIPLIERS | ODC's | TOTAL |
|--------------------------------------|-------|-------------|-------|-------|
| Advanced Civil Technologies (ACT) | | | | |
| Arellano Associates | | | | |
| Leighton Consulting | | | | |
| LIN Consulting | | | | |
| Safeprobe | | | | |
| Tatsumi and Partners, Inc. | | | | |
| Towill | | | | |
| Vandermost Consulting Services (VCS) | | | | |

TOTAL SUBCONSULTANT SERVICES

TOTAL

| FEE PROPOSAL WORKSHEET | | | | | | | | | |
|------------------------------|---------------------------|------------------|--|--|--|--|--|--|--|
| COMPANY: | SCOPE OF WORK: | PHASE: | | | | | | | |
| HNTB | HNTB Construction Support | | | | | | | | |
| PROJECT: | | DATE: | | | | | | | |
| Jurupa Road Grade Separation | | January 19, 2023 | | | | | | | |

| PERSONNEL | POSITION | | HOURS | | RATE | AMOUNT |
|-----------------|---------------------------------|-------------|-------|-----|-----------------|--------------|
| Adam Dayhoff | Project Manager | | 54 | @ | \$132.00 | \$7,128.00 |
| Shannon Willits | DPM/Lead Civil | | 460 | @ | \$91.00 | \$41,860.00 |
| Kelly Lumen | Quality Manager | | 125 | @ | \$74.00 | \$9,250.00 |
| Steve Greene | Lead Traffic | | 100 | @ | \$110.00 | \$11,000.00 |
| | Technical Manager | | 375 | @ | \$110.00 | \$41,250.00 |
| | Technical Lead | | 165 | @ | \$84.00 | \$13,860.00 |
| | Sr. Project Engineer | | 245 | @ | \$74.00 | \$18,130.00 |
| | Project Engineer/Planner | | 80 | @ | \$60.00 | \$4,800.00 |
| | Engineer/Planner III | | 375 | @ | \$46.00 | \$17,250.00 |
| | Engineer II | | 320 | @ | \$40.00 | \$12,800.00 |
| | Engineer I | | | | \$37.00 | |
| | CADD-Civil | | 195 | @ | \$49.00 | \$9,555.00 |
| | Project Analyst | | 275 | @ | \$49.00 | \$13,475.00 |
| | Administrative Assistant | | | | \$32.00 | |
| Nien Wang | Lead Structures | | | | \$110.00 | |
| | Structures Sr. Project Engineer | | | | \$76.00 | |
| | Structures Project Engineer | | | | \$65.00 | |
| | Structures Engineer III | | | | \$53.00 | |
| | Structures Engineer II | | | | \$51.00 | |
| | CADD-Structures | | | | \$65.00 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | TOTAL HOURS | 2,769 | тот | AL DIRECT LABOR | \$200,358.00 |

MULTIPLIERS

| ESCALATION @ | (of Direct Labor) | |
|----------------------------|---|--------------|
| OVERHEAD @ 97.96% | (of Direct Labor + Escalation) | \$196,270.70 |
| PAYROLL ADDITIVES @ 48.27% | (of Direct Labor + Escalation) | \$96,712.81 |
| PROFIT (FIXED FEE) @ 10.0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$49,334.15 |
| | TOTAL MULTIPLIERS | \$342,317.65 |

OTHER DIRECT COSTS

· Billed at Actual Cost · · ·

| OTHER DIRECT COSTS | ••• Billed at Actual Cost •• | • | | | |
|-------------------------------|------------------------------|----------|------|-------------|--------|
| ITE | M | QUANTITY | UNIT | UNIT COST | AMOUNT |
| Travel/Mileage | | | LS | \$0.54 | |
| Traffic Counts | | | LS | \$18,000.00 | |
| Printing, Plotting & Copies | | | LS | \$5,000.00 | |
| Exhibits, Plotting & Mounting | | | LS | \$2,500.00 | |
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TOTAL ODC'S

SUB CONSULTANT SERVICES

| LABOR | MULTIPLIERS | ODC's | TOTAL |
|------------|--------------------------|---|---|
| | | | |
| | | | |
| \$3,192.41 | \$6,829.84 | | \$10,022.25 |
| \$6,505.75 | \$12,458.51 | | \$18,964.26 |
| | | | |
| \$6,915.56 | \$13,015.08 | | \$19,930.64 |
| | | | |
| | | | |
| | \$3,192.41 \$6,505.75 | \$3,192.41 \$6,829.84 \$6,505.75 \$12,458.51 | \$3,192.41 \$6,829.84 \$6,505.75 \$12,458.51 |

TOTAL SUBCONSULTANT SERVICES \$48,917.16

TOTAL \$591,592.81

| MANHOUR WORKSHEET | | |
|------------------------------|-----------------|------------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| HNTB | Manhour Summary | All Phases |
| PROJECT: | | DATE: |
| Jurupa Road Grade Separation | | January 19, 2023 |

| TASK | pp.co.ff | S. Manuager | SAO COM | True Barbert | towers tech | ACCE MANAGER | actific 82. Pr | outer the see | Se district | Edder Jones and | geri geri | sta' out | cont. Proof | ET AMELYS'S | HOURS | (Top & Bottom) HOURS |
|--------------|----------|-------------|----------|--------------|-------------|--------------|----------------|---------------|-------------|-----------------|-----------|----------|-------------|-------------|--------|-------------------------|
| | \$357.53 | \$246.48 | \$200.43 | \$297.94 | \$297.94 | \$227.52 | \$200.43 | \$162.51 | \$124.59 | \$108.34 | \$100.22 | \$132.72 | \$132.72 | \$86.67 | | |
| PHASE TOTALS | 269 | 1,322 | 196 | 100 | 1,162 | 1,155 | 872 | 535 | 995 | 1,490 | 415 | 1,095 | 851 | | 10,457 | 10,457 |
| PHASE I | 162 | 434 | 66 | | 185 | 60 | 80 | 145 | | | 120 | | 576 | | 1,828 | 1,828 |
| PHASE II | 53 | 428 | 5 | | 602 | 930 | 547 | 310 | 620 | 1,170 | 295 | 900 | | | 5,860 | 5,860 |
| PHASE III | | | | | | | | | | | | | | | | |
| PHASE IV | 54 | 460 | 125 | 100 | 375 | 165 | 245 | 80 | 375 | 320 | | 195 | 275 | | 2,769 | 2,769 |



| MANHOUR WORKSHEET | | | | | | | | | | | | | | | |
|--|------------------------|------------------------|---|-------------------------------|----------------|-----------------------|---|--|---------------------|------------------|------------------------|--|-----|-------|-------|
| COMPANY: | | | | | SCOPE OF V | | | | | PHASE: | | | | | |
| HNTB | | | | | Prelimi | nary Engine | ering & Enviro | onmental | | Phase I DATE: | | | | | |
| PROJECT: Jurupa Road Grade Separation | | | | | | | | | | January 1 | 19, 2023 | | | | |
| TASK | \. | get thruseld | L. L. L. C. | Sparter Sparter | Echiechi wasal | get juice | Sept Sept Sept Sept Sept Sept Sept Sept | Set of the second of the secon | their their | iller' ode | SEUT. PROS | CT AND THE STATISTICS OF THE STATIST OF THE S | s | co | ST |
| Total Manhours | \$357.53 162 | \$246.48 434 | \$200.43 66 | \$297.94 \$297.9 18 | 7421.02 | \$200.43 80 | \$162.51 \$1 | 124.59 \$108.34 \$ 1 | 00.22 120 | \$132.72 | \$132.72 576 | \$86.67 | 8 | | |
| ARTICLE All - PROJECT ADMINISTRATION | | | | | | | | | | | | | | | |
| A. Project Management Plan (14mo) | 20 | 15 | | | | | | | | | 200 | 23 | 5 | \$ 37 | 7,391 |
| B. Quality Control Plan (14mo) | | 16 | 40 | 3 | 0 | | | | | | | 8 | 6 | \$ 20 | ,899 |
| C. Budgeting (14mo) | 20 | 90 | | | | | | | | | 200 | 31 | 0 : | \$ 55 | ,877 |
| D. Cost Accounting (14mo) | 20 | 80 | | | | | | | | | | 10 | 0 | \$ 26 | ,869 |
| E. Scheduling (14mo) | 20 | 60 | 24 | | | | | | | | 176 | 28 | 0 | \$ 50 | ,108 |
| F. Contract Administration and Meetings | | | | | | | | | | | | | | | |
| F.1 Project Management/Administration (14 mos) | 25 | 60 | | 4 | 0 | | 50 | | | | | 17 | 5 | \$ 43 | ,770 |
| F.2 Project Meetings (14 PDT meetings) | 40 | 60 | | 4 | 0 40 | | 45 | | | | | 22 | 5 | \$ 57 | ,421 |
| G. Contract Deliverables | | | | | | | | | | | | | | | |
| H. Outreach | | | | | | | | | | | | | | | |
| H.1 Collatoral Materials & Coordination | | | | | | | | | | | | | | | |
| H.2 Open House Community Meetings | | | | | | | | | | | | | | | |
| H.3 Stakeholder and Business Briefings | | | | | | | | | | | | | | | |
| I. Union Pacific Payments | | | | | | | | | | | | | | | |
| ARTICLE AIII - PLANNING AND PROJECT DEVELO | DMENT | | | | | | | | | | | | + | | |
| A. Research and Data Gathering | I WILLY | | | | | - | | | | | | | + | | |
| B. Permits | 1 | 10 | | 1 | n | | 10 | | | | | 3 | 1 : | \$ 7 | ,427 |
| C. Design Surveys | • | 10 | | | | | 10 | | | | | | - | • | , |
| D. Preliminary Geotechnical Investigations | | | | | | | | | | | | | + | | |
| D.1 Preliminary Geolecumical investigations D.1 Preliminary Foundation Report | | | | | | | | | | | | | | | |
| D.2 Phase I Environmental Site Assessment | | | | | | | | | | | | | + | | |
| D.3 Aerially Deposited Lead (ADL) Survey | | | | | | | | | | | | | + | | |
| E. Planning Studies | | | | | | | | | | | | | + | | |
| E.1 Geometrics | | | | | | | | | | | | | + | | |
| E.2 Draft Drainage Analysis | | | | | | | | | | | | | + | | |
| E.3 Utility Impact Identification | | | | | | | | | | | | | + | | |
| E.4 Structure Advance Planning Study | | | | | | | | | | | | | + | | |
| E.5 Track Geometrics | | | | | | | | | | | | | + | | |
| E.6 Estimate of Probable Cost | | | | | | | | | | | | | | | |
| E.7 Schedule | | | | | | | | | | | | | | | |
| E. / Collocatio | | | | | | | | | | | | | | | |

| MANHOUR WORKSHEET | | | | | | | | | | 1.45 | | | | | |
|---|-------------------|-----------------|-------------|-----------|------------|---------------------|-----------------------|--|------------|-------------------|----------|-------------|-------------------------------|----|--------|
| COMPANY: HNTB | | | | | Prelimina | ork: ary Enginee | rina & Envi | ronmental | | PHASE: Phase I | | | | | |
| PROJECT: | | | | | | , | | | | DATE: | | | | | |
| Jurupa Road Grade Separation | | | | | | | | | | January | 19, 2023 | | | | |
| TASK | _{je} gde | Tarifold Spring | Schar Court | Jos Rafie | And Andrea | erise gra | outer topopular outer | TO STATE OF THE ST | general pe | die Co | Securi | LEET BURETS | Statisti Statisti Hours | / | COST |
| E.8 Constructability | | | | | | | | | | | | | | | |
| E.9 Traffic Study | | | | | | | | | | | | | | | |
| E.10 Landscape and Aesthetics | | | | | | | | | | | | | | | |
| F. Visual Aids | | | | | | | | | | | | | | | |
| F.1 Photo Simulations (9) | | | | | | | | | | | | | | | |
| F.2 Videos (1) | | | | | | | | | | | | | | | |
| G. Environmental Determination and Issues | | | | | | | | | | | | | | | |
| G.1 Process extention of permits | | | | | | | | | | | | | | | |
| G.2 Potential update to PD/Limits | | | | 20 | | | 40 | | | | | | 60 | \$ | 12,459 |
| H. Preliminary Engineering Report | | | | | | | | | | | | | | | |
| I. Geometric Approval Drawings | | | | | | | | | | | | | | | |
| J. Design Drainage Report & WQMP | 2 | 4 | 2 | | | 80 | | | 120 | | | | 208 | \$ | 30,162 |
| K. Geotechnical Design Report | | 4 | | 10 | 20 | | | | | | | | 34 | \$ | 8,516 |
| L. Right-of-Way Maps | | | | | | | | | | | | | | | |
| M. Agreements | | | | | | | | | | | | | | | |
| N. Utility Coordination | | | | | | | | | | | | | | | |
| N.1 Utility Research & Mapping | | | | | | | | | | | | | | | |
| N.2 Utility Coordination & Meetings | | | | | | | | | | | | | | | |
| N.3 Utility Potholing | | | | | | | | | | | | | | | |
| N.4 Electric and Water Service Meters | | | | | | | | | | | | | | | |
| O. Miscellaneous Design Support | | | | | | | | | | | | | | | |
| O.1 Design Exceptions | | | | | | | | | | | | | | | |
| O.2 Traffic Management Plan | | | | | | | | | | | | | | | |
| O.3 Track Design | 14 | 35 | | 35 | | | | | | | | | 84 | \$ | 24,060 |
| | | | | | | | | | | | | | | | |

| MANHOUR WORKSHEET | | | | | | | | | | | | | | |
|--|-----------------|--------------|----------|-------------------|------------------|--------------------|------------|----------|--|----------|--------------------|-------------------|-----------------------------|------------|
| COMPANY: | | | | | SCOPE OF W | ORK: pecs & Est | imatec | | | | PHASE: Phase II | | | |
| HNTB PROJECT: | | | | | rialis, 5 | Pers & EST | mates | | | | DATE: | | | |
| Jurupa Road Grade Separation | | | | | | | | | | | January 19 | 9, 2023 | | |
| TASK | _{Arch} | ECT WARRACES | Edo Cari | Tri un purett | A LO | g Jaco | ACUEC TOWN | | a de la constante de la consta | i de | ater order | ger profes profes | Startur Startur Hours | COST |
| | \$357.53 | \$246.48 | \$200.43 | \$297.94 \$297.94 | \$2 27.52 | \$200.43 | \$162.51 | \$124.59 | \$108.34 | \$100.22 | \$132.72 \$ | \$132.72 \$86.67 | | |
| Total Manhours | 53 | 428 | 5 | 602 | 930 | 547 | 310 | 620 | 1,170 | 295 | 900 | | 5,860 | |
| ARTICLE AIV - STRUCTURES | | | | | | | | | | | | | | |
| A. Structure Type Selection and Bridge General Plans | | | | | | | | | | | | | | |
| B. Geotechnical Coordination and Foundation Report | | | | | | | | | | | | | | |
| C. Structural Design and Calculations | | | | | | | | | | | | | | |
| D. Independent Check Review and Quality Control | | | | | | | | | | | | | | |
| E. Structure Specifications & Estimates | | | | | | | | | | | | | | |
| F. Initial Structure PS&E (65% unchecked plans) | | | | | | | | | | | | | | |
| G. Intermediate Structure PS&E (90% Checked Plans) | | | | | | | | | | | | | | |
| H. Draft Final Structure PS&E (95%) | | | | | | | | | | | | | | |
| I. Final Structure PS&E | | | | | | | | | | | | | | |
| J. UPRR Structure Submittals | 15 | 80 | | 140 | 150 | | | | | | 150 | | 535 | \$ 120,828 |
| K. Box Culvert Plans | 17 | 75 | | 100 | 225 | 22 | | | 275 | 295 | 50 | | 1,059 | \$ 175,952 |
| | | | | | | | | | | | | | | |
| ARTICLE AV - ROADWAY | | | | | | | | | | | | | | |
| A. Basic Roadway Plans | | | | | | | | | | | | | | |
| A.1 Title Sheet/General Sheets | | | | | | | | | | | | | | |
| A.2 Horizontal Control Plans | | | | | | | | | | | | | | |
| A.3 Typical Sections | | | | | | | | | | | | | | |
| A.4 Plan & Profile Sheets | | 30 | | 20 | 40 | | 20 | 90 | 15 | | 50 | | 265 | \$ 45,178 |
| A.5 Construction Details | | 10 | | 40 | | | 10 | 20 | 30 | | 60 | | 170 | \$ 29,713 |
| A.6 Grading Plans | | 25 | | 33 | | | 20 | 80 | 20 | | 40 | | 218 | \$ 36,687 |
| A.7 Removal Plans | | 5 | | 10 | | | 30 | | | | 20 | | 65 | \$ 11,741 |
| A.8 Planting & Irrigation Plans | | 5 | | | | | | | | | | | 5 | \$ 1,232 |
| B. Calculations | | | | | | | | | | | | | | |
| B.1 Geometric Traverse & Right-of-Way | | 15 | | 20 | 10 | 80 | | | 70 | | | | 195 | \$ 35,549 |
| B.2 Grid Grades | | | | | | 45 | | | 20 | | | | 65 | \$ 11,186 |
| B.3 Profile | | 15 | | 30 | 40 | 20 | 40 | 40 | 35 | | | | 220 | \$ 41,021 |
| B.4 Earthwork Quantities | | 20 | | 50 | 60 | 15 | 50 | 40 | 30 | | | | 265 | \$ 52,843 |
| B.5 Other Quantities | | 12 | | 60 | 40 | 20 | | | 65 | | | | 197 | \$ 40,985 |
| C. Drainage Plans | | | | | | | | | | | | | | |
| C.1 Storm Drain Plans | | | | | | | | | | | | | | |
| C.2 BMP & Erosion Control Plans | | | | | | | | | | | | | | |

| MANHOUR WORKSHEET | | | Sale W | | | | | | | | ALC: | | | | 200 | 400 | |
|---|---|------------|--|---------------|--------------|-------------|---------------------|---------------|--------|--------|----------|--------------------|----------|--------------|-----------------------------|-----------|--------|
| COMPANY: HNTB | | | | | | SCOPE OF WO | ORK: Decs & Esti | imatee | | | | PHASE: Phase II | | | | | |
| PROJECT: | | | | | | F 10115, 3 | ACCO OR EST | mates | | | | DATE: | | | | | - |
| Jurupa Road Grade Separation | | | | | | | | | | | | January | 19, 2023 | | | | |
| TASK | Pro | Ect Brutet | ne de la contraction de la con | LITY MANUAGER | Rockers Lees | MCPL MANUE | gen go | go Ber Levent | SE STA | a Just | piter de | iter Si | Schil Se | SECT AMERICA | dariuk Karitari Hours | COST | |
| D. Traffic & Electrical Plans | | | | | | | | | | | | | | | | | |
| D.1 Street Lighting Plans | | | | | | | | | | | | | | | | | |
| D.2 Stage Construction & Traffic Handling | | | | | | | | | | | | | | | | | |
| D.3 Detour Routing Plan | | | | | | | | | | | | | | | | | |
| D.4 Signal Plan | | | | | | | | | | | | | | | | | |
| D.5 Striping & Signing Plans | | | | | | | | | | | | | | | | | |
| D.6 Bridge Lighting Plans | | | | | | | | | | | | | | | | | |
| E. Miscellaneous Plans | | | | | | | | | | | | | | | | | |
| E.1 Utility Composite Plans | | | | | | | | | | | | | | | | | |
| E.2 Electrical & Water Meter Plans | | | | | | | | | | | | | | | | | |
| E.3 Right-of-Way Requirements | | 20 | | | | | | 60 | | | | | | | 80 | \$ 14,68 | 10 |
| E.4 Track Plans | 15 | 80 | | | 85 | 150 | 270 | | 200 | 390 | | 225 | | | 1,415 | \$ 235,68 | 13 |
| E.5 Retaining Wall Plans | | | | | | | | | | | | | | | | | |
| E.6 Pump Station Plans | | | | | | | | | | | | | | | | | |
| E.7 Parking Lot | | 22 | | | | | | 80 | | | | 120 | | | 222 | \$ 34,35 | 0 |
| F. Intermediate Reviews | | | | | | | | | | | | | | | | | |
| G. Specifications and Estimate | | | | | 4 | | | | | | | | | | 4 | \$ 1,19 |)2 |
| H. Quality Control | 1 | 4 | 5 | | | | | | | | | | | | 10 | \$ 2,34 | |
| I. Draft PS&E | | | | | | | | | | | | | | | | | |
| I.1 Plans | | | | | | | | | | | | | | | | | |
| I.2 Special Provisions | | | | | | | | | | | | | | | | | |
| I.3 Design Calculations | | | | | | | | | | | | | | | | | |
| I.4 Roadway Quantities & Cost Estimate | | | | | | | | | | | | | | | | | |
| J. Final PS&E (100% Complete) | | | | | | | | | | | | | | | | | |
| K. Constructability Reviews | | | | | | | | | | | | | | | | | |
| L. Schedule of Services | 5 | 10 | | | 10 | 215 | 75 | | 150 | 220 | | 185 | | | 870 | \$ 138,25 | 57 |
| | | | | | | | | | | | | | | | | | |
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| MANHOUR WORKSHEET | | | | | | THE PARTY | 40000 | | | | | | 2.16 | | | |
|--|----------|----------|----------|----------|----------|------------|----------|-------------|-------------|----------|---------------|----------|----------|--------------|----------------------------|------|
| COMPANY: | | | | | | SCOPE OF W | ORK: | | | | | PHASE: | | | | |
| HNTB | | | | | | Bid Sup | port | | | | | Phase II | I | | | |
| PROJECT: | | | | | | | | | | | | DATE: | 19, 2023 | | | |
| Jurupa Road Grade Separation | | | - | | | - | | | - | · | - | January | 19, 2023 | - | - | |
| TASK | | 0. | | / V | STRAFFIC | A TEC | and the | oseci excit | St. St. St. | at Land | ati petari | | 1 8 | SECT AMERICA | Reflitt Segint Hours | COST |
| Total Manhours | \$357.53 | \$246.48 | \$200.43 | \$297.94 | \$297.94 | \$227.52 | \$200.43 | \$162.51 | \$124.59 | \$108.34 | \$100.22 | \$132.72 | \$132.72 | \$86.67 | | |
| ARTICLE AVI - CONSTRUCTION BIDDING PHASE | | | | | | | | | | | | | | | | |
| A. Project Administration (6 months) | | | | | | | | | | | | | | | | |
| B. Construction Bidding Services | | | | | | | | | | | | | | | | |
| Additional RFIs | | | | | | | | | | | | | | | | |
| Additional Addendums | | | | | | | | | | | | | | | | |
| Additional Addonatino | | | | | | | | | | | | | | | | |
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| 194 \$297.94 100 375 25 100 175 75 | S227.52 165 90 75 | \$200.43 245 80 90 75 | Stocket by Stocket Sto | \$124.59 375 80 175 120 | S108.34 S100 | | 19, 2023 | 320 1,240 | \$ 71,695 \$ 235,805 |
|--|-------------------|-----------------------------------|--|-------------------------------------|--------------|---|-----------------------------|---------------------------------------|---------------------------------------|
| 25 100 175 | 165 | 245 80 90 | 80 | 375 80 175 | 320 | January Literature 2.22 \$132.72 195 | 5132.72 \$86 275 | 2,769 2,769 434 320 1,240 | \$ 79,63 \$ 71,69 \$ 235,80 |
| 25 100 175 | 165 | 245 80 90 | 80 | 375 80 175 | 320 | 195 195 | 5132.72 \$86 275 | 2,769 2,769 434 320 1,240 | \$ 79,638 \$ 71,698 \$ 235,808 |
| 25 100 175 | 165 | 245 80 90 | 80 | 375 80 175 | 320 | 195 195 80 | \$132.72 \$86 275 | 2,769 2,769 434 320 1,240 | \$ 79,639 \$ 71,695 \$ 235,805 |
| 25 100 100 100 175 | 165 | 245 80 90 | 80 | 375 80 175 | 320 | 195 | 275 | 2,769 434 320 1,240 | \$ 71,695 \$ 235,805 |
| 25 100 100 175 | 90 | 80 90 | | 80 175 | | 80 | | 320 1,240 | \$ 235,805 |
| 100 100 175 | | 90 | 80 | 175 | 320 | | 275 | 320 1,240 | \$ 71,695 \$ 235,805 |
| 100 100 175 | | 90 | 80 | 175 | 320 | | 215 | 320 1,240 | \$ 71,695 \$ 235,805 |
| 100 175 | | 90 | 80 | 175 | 320 | | | 1,240 | \$ 71,695 \$ 235,805 \$ 155,537 |
| 100 175 | | 90 | 80 | 175 | 320 | | | 1,240 | \$ 235,805 |
| | | | 80 | | 520 | | | | |
| 75 | 73 | 75 | 00 | 120 | | 113 | | 775 | \$ 100,03 <i>1</i> |
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| FEE PROPOSAL WORKSHEET | | |
|------------------------------|---|------------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| Towill | Preliminary Engineering & Environmental | Phase I |
| PROJECT: | | DATE: |
| Jurupa Road Grade Separation | | January 19, 2023 |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
|-----------------------|-----------------------|-------|---|---------|------------|
| J. Marty Smith | Project Manager | 20 | @ | \$55.57 | \$1,111.40 |
| James R. Rios | Project Surveyor | 25 | @ | \$53.50 | \$1,337.50 |
| Associate Surveyor | Associate Surveyor | 15 | @ | \$50.91 | \$763.65 |
| Survey CADD Drafter | Survey CADD Drafter | 44 | @ | \$32.72 | \$1,439.68 |
| Project Coordinator | Project Coordinator | | | \$31.00 | |
| PLS Party Chief | PLS Party Chief | | | \$51.61 | |
| Certified Party Chief | Certified Party Chief | | | \$50.91 | |
| Party Chief | Party Chief | | | \$48.86 | |
| Instrument Person | Instrument Person | | | \$46.36 | |
| Chainman | Chainman | 22 | @ | \$45.78 | \$1,007.16 |
| Apprentice | Apprentice | 40 | @ | \$34.34 | \$1,373.60 |

TOTAL HOURS 166 TOTAL DIRECT LABOR \$7,032.99

MULTIPLIERS

| ESCALATION @ | | (of Direct Labor) | , | |
|----------------------|---------|---|-----------------|---------|
| OVERHEAD @ | 185.08% | (of Direct Labor + Escalation) | \$13 | ,016.66 |
| PAYROLL ADDITIVES @ | | (of Direct Labor + Escalation) | | |
| PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$2 | ,004.96 |
| | | TOTAL M | ULTIPLIERS \$15 | ,021.62 |

OTHER DIRECT COSTS ••• Billed at Actual Cost •••

| Control of the Control | ITEM | QUANTITY | UNIT | UNIT COST | AMOUNT |
|-------------------------------|------|----------|------|-------------|--------|
| Travel/Mileage | | | LS | \$0.54 | |
| Traffic Counts | | | LS | \$18,000.00 | |
| Printing, Plotting & Copies | | | LS | \$5,000.00 | |
| Exhibits, Plotting & Mounting | | | LS | \$2,500.00 | |
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TOTAL ODC'S

SUB CONSULTANT SERVICES

| LABOR | MULTIPLIERS | ODC's | TOTAL |
|-------|-------------|-------------------|-------------------------|
| | | | |
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| | LABOR | LABOR MULTIPLIERS | LABOR MULTIPLIERS ODC'S |

TOTAL SUBCONSULTANT SERVICES

TOTAL \$22,054.61

| MANHOUR WORKSHEET | | | | | | | | | | | | | | |
|---|---------|---------|---------|--|--|--|------------------|---------|----------|------------------|----------|---|-------|-----------|
| COMPANY: | | | | | SCOPE OF W | | | | | PHASE: | | | | |
| Towill | | | | | Prelimin | ary Engineering & En | vironmental | | | Phase I | | | | |
| PROJECT: Jurupa Road Grade Separation | | | | | | | | | | DATE: January | 19 2023 | | | |
| Juliupa Noau Glaue Separation | | | | _ | - | | | | | January | 15, 2025 | - | | |
| TASK | 8174.26 | Sterner | S159.65 | sure sure of the s | Craft Drifted Continued Land Principles Continued Land Land Land Land Land Land Land Lan | rective state of the state of t | hattung \$145.38 | chaines | E Acques | , co | | | IOURS | COST |
| Total Manhours | 20 | 25 | 15 | 44 | | | | 22 | 40 | | | | 166 | |
| ARTICLE AIII - PLANNING AND PROJECT DEVELOP | MENT | | | | | | | | | | | | | |
| L. Right-of-Way Maps | 20 | 25 | 15 | 44 | | | | 22 | 40 | | | | 166 | \$ 22,055 |
| | | | | | | | | | | | | | | |
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| FEE PROPOSAL WORKSHEET | | |
|------------------------------|----------------------|------------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| Leighton Consulting | Construction Support | Phase IV |
| PROJECT: | | DATE: |
| Jurupa Road Grade Separation | | January 19, 2023 |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
|--------------------|-----------------------------------|-------|---|----------|----------|
| Jeffrey DeLand | Staff Geologist | 5 | @ | \$28.50 | \$142.50 |
| Breeanna Copeland | Staff Scientist | 19 | @ | \$23.50 | \$446.50 |
| Zach Freeman, PG | Project Scientist | 1 | @ | \$32.21 | \$32.21 |
| Richard Orr, PG | Associate Geologist | 8 | @ | \$57.21 | \$457.68 |
| Simon Said, PE, GE | Principal Engineer/PM | 2 | @ | \$70.07 | \$140.14 |
| Kris Lutton, PG | Sr. Principal Geologist/QC-Enviro | 2 | @ | \$106.97 | \$213.94 |
| Buu Tran | CAD Operator | 6 | @ | \$40.87 | \$245.22 |
| Mary Murphy | GIS Analyst | 3 | @ | \$34.25 | \$102.75 |
| Bashir Said | Staff Engineer | 6 | @ | \$28.50 | \$171.00 |
| Debbie Maggers | Word Processor/Admin | 14 | @ | \$24.95 | \$349.30 |
| Mary-Ann Verrill | Project Accountant | 12 | @ | \$24.68 | \$296.16 |
| Robert Riha, CEG | Sr. Principal Geologist/QC | 7 | @ | \$84.13 | \$595.01 |

TOTAL HOURS 85 TOTAL DIRECT LABOR \$3,192.41

MULTIPLIERS

| ESCALATION @ | | (of Direct Labor) | |
|----------------------|---------|---|------------|
| OVERHEAD @ | 58.40% | (of Direct Labor + Escalation) | \$1,864.37 |
| PAYROLL ADDITIVES @ | 127.00% | (of Direct Labor + Escalation) | \$4,054.36 |
| PROFIT (FIXED FEE) @ | 10.0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$911.11 |

TOTAL MULTIPLIERS

\$6,829.84

OTHER DIRECT COSTS ••• Billed at Actual Cost •••

| OTTLK DIKEOT GOSTS | billed at Actua | ii Cost | | | | |
|-------------------------------|-----------------|---------|----------|------|-------------|--------|
| | ITEM | | QUANTITY | UNIT | UNIT COST | AMOUNT |
| Travel/Mileage | | | | LS | \$0.54 | |
| Traffic Counts | | | | LS | \$18,000.00 | |
| Printing, Plotting & Copies | | | | LS | \$5,000.00 | |
| Exhibits, Plotting & Mounting | | | | LS | \$2,500.00 | |
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TOTAL ODC'S

SUB CONSULTANT SERVICES

| COMPANY | LABOR | MULTIPLIERS | ODC's | TOTAL |
|--------------------------------------|-------|-------------|-------|-------|
| Advanced Civil Technologies (ACT) | | | | |
| Arellano Associates | | | | |
| Leighton Consulting | | | | |
| LIN Consulting | | | | |
| Safeprobe | | | | |
| Tatsumi and Partners, Inc. | | | | |
| Towill | | | | |
| Vandermost Consulting Services (VCS) | | | | |

TOTAL SUBCONSULTANT SERVICES

TOTAL \$10,022.25

| MANHOUR WORKSHEET | | | | | | | | | | | | PHASE: | | | | |
|---|---------|----------------------|---|----------------------|----------------------|----------------------|-----------------------|---------|---------------------|----------------------|----------------------|----------------------|--|------|----|-------|
| COMPANY: Leighton Consulting | | | | | | Construc | ਹਿਸਨ: :tion Suppor | • | | | | Phase IV | | | | |
| ROJECT: | | | | | | Conociac | поп опррог | | | | | DATE: | | | | |
| Jurupa Road Grade Separation | | | | | | | | | | | | January 19, 20 |)23 | | | |
| TASK | geti | Space Space | g die | September 1 | para Cacalogist | altroperation | SE CA | ges had | g ^è gent | greet Sidd's | october Springer | St. Principle | of the state of th | OURS | / | COST |
| Total Manhours | \$89.47 | \$73.78 19 | \$101.12 1 | \$179.61 8 | \$219.98 2 | \$335.82 2 | \$128.31 S | 3 | \$89.47 | \$78.33 14 | \$77.48 12 | \$264.12 7 | | 85 | | |
| ARTICLE AVII - CONSTRUCTION SUPPORT PHASE | | | | | | | | | | | | | | | | |
| A. Project Administration (12 months) | | 6 | | | | | | | | | 12 | | | 18 | \$ | 1,372 |
| B. Pre-Construction Meeting | | | | | | | | | | | | | | | | |
| C. Meetings & Site Reviews | 1 | 1 | 1 | 1 | 2 | | | | | | | | | 6 | \$ | 884 |
| D. Response to Inquiries/RFI's | 2 | 6 | | 5 | | | 6 | | | 10 | | 7 | | 36 | \$ | 4,941 |
| E. Submittal & Shop Drawing Review | | | | | | | | | | | | | | | | |
| F. Change Order Support | 2 | 6 | | 2 | | 2 | | 3 | 6 | 4 | | | | 25 | \$ | 2,825 |
| G. Outreach Support | | | | | | | | | | | | | | | | |
| H. As-Builts | | | | | | | | | | | | | | | | |
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| FEE PROPOSAL WORKSHEET | | |
|------------------------------|----------------------|------------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| LIN | Construction Support | Phase IV |
| PROJECT: | | DATE: |
| Jurupa Road Grade Separation | | January 19, 2023 |

| PERSONNEL | POSITION | HOURS | RATE | AMOUNT |
|-------------|------------------------|-------|-----------|------------|
| William Sun | Principal | 27 | @ \$65.00 | \$1,755.00 |
| Ray Kommidi | Senior Project Manager | 70 | @ \$53.50 | \$3,745.00 |
| Ryan Woo | Project Engineer | 27 | @ \$37.25 | \$1,005.75 |

TOTAL HOURS 124 TOTAL DIRECT LABOR \$6,505.75

MULTIPLIERS

| | | TOTAL MULTIPLIERS | \$12,458.51 | 1 |
|---------------------------|-----|---|-------------|---|
| PROFIT (FIXED FEE) @ 10.0 | .0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$1,724.02 | ı |
| PAYROLL ADDITIVES @ | | (of Direct Labor + Escalation) | | l |
| OVERHEAD @ 165.00 | 00% | (of Direct Labor + Escalation) | \$10,734.49 | l |
| ESCALATION @ | | (of Direct Labor) | | l |

OTHER DIRECT COSTS ••• Billed at Actual Cost •••

| OTHER BIRLEST GOOTS | | Dilled at Actual Cost | | | | |
|---|------|-----------------------|----------|------|-------------|--------|
| the self-transfer of the self-transfer of | ITEM | | QUANTITY | UNIT | UNIT COST | AMOUNT |
| Travel/Mileage | | | | LS | \$0.54 | |
| Traffic Counts | | | | LS | \$18,000.00 | |
| Printing, Plotting & Copies | | | | LS | \$5,000.00 | |
| Exhibits, Plotting & Mounting | | | | LS | \$2,500.00 | |
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TOTAL ODC'S

SUB CONSULTANT SERVICES

| | COMPANY | LABOR | MULTIPLIERS | ODC's | TOTAL |
|----|---------|-------|-------------|-------|-------|
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TOTAL SUBCONSULTANT SERVICES

TOTAL \$18,964.26

| MANHOUR WORKSHEET | | | | | | | |
|---|-----------------------|--|-----------------------|----------------------|---------------------------|-------|-------------|
| COMPANY: | | | | SCOPE OF WORK: | PHASE: | | |
| LIN | | | | Construction Support | Phase IV | | |
| PROJECT: Jurupa Road Grade Separation | | | | | DATE: January 19, 2023 | | |
| Jurupa Road Grade Separation | | | | | January 19, 2023 | | |
| TASK | Principle | , de la constante de la consta | Robert Herizage | | | Hours | COST |
| Total Manhours | \$189.48 27 | \$155.95 70 | \$108.58 27 | | | 124 | |
| ARTICLE AVII - CONSTRUCTION SUPPORT PHASE | | | | | | | |
| A. Project Administration (12 months) | 12 | 5 | | | | 17 | \$ 3,053 |
| B. Pre-Construction Meeting | | | | | | | |
| C. Meetings & Site Reviews | 3 | 12 | 3 | | | 18 | \$ 2,766 |
| D. Response to Inquiries/RFI's | 5 | 24 | | | | 29 | \$ 4,690 |
| E. Submittal & Shop Drawing Review | 5 | 24 | 24 | | | 53 | \$ 7,296 |
| F. Change Order Support | 2 | 5 | | | | 7 | \$ 1,159 |
| G. Outreach Support | | | | | | | |
| H. As-Builts | | | | | | | |
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| FEE PROPOSAL WORKSHEET | | |
|------------------------------|----------------------|------------------|
| COMPANY: | SCOPE OF WORK: | PHASE: |
| Tatsumi and Partners, Inc | Construction Support | Phase IV |
| PROJECT: | | DATE: |
| Jurupa Road Grade Separation | | January 19, 2023 |

| PERSONNEL | POSITION | HOURS | | RATE | AMOUNT |
|-------------------|-------------------------------|-------|---|---------|------------|
| David H. Tatsumi | Principal/Landscape Architect | 16 | @ | \$92.41 | \$1,478.56 |
| Ryohei Ota | Project Manager | 32 | @ | \$41.00 | \$1,312.00 |
| Nathan Quy | Lead Landscape Designer | 33 | @ | \$36.50 | \$1,204.50 |
| Jimmy Ogata | Lead Irrigation Designer | 33 | @ | \$36.50 | \$1,204.50 |
| Weywantheawy Kang | Designer | 33 | @ | \$25.00 | \$825.00 |
| Samuel Meljia | Designer | 33 | @ | \$27.00 | \$891.00 |
| | | | | | |

TOTAL HOURS 180 TOTAL DIRECT LABOR \$6,915.56

MULTIPLIERS

| ESC | ALATION @ | | (of Direct Labor) | |
|-----|------------------------|----|---|-------------|
| OVE | RHEAD @ 162.0 | 0% | (of Direct Labor + Escalation) | \$11,203.21 |
| PAY | ROLL ADDITIVES @ | | (of Direct Labor + Escalation) | |
| PRO | OFIT (FIXED FEE) @ 10. | 0% | (of Direct Labor + Escalation + Overhead + Payroll Additives) | \$1,811.88 |

TOTAL MULTIPLIERS \$13,015.08

OTHER DIRECT COSTS ••• Billed at Actual Cost •••

| 2111 <u>211</u> 211221 | Billed at Actual Cost | | | |
|-------------------------------|-----------------------|------|-------------|--------|
| ITEM | QUANTITY | UNIT | UNIT COST | AMOUNT |
| Travel/Mileage | | LS | \$0.54 | |
| Traffic Counts | | LS | \$18,000.00 | |
| Printing, Plotting & Copies | | LS | \$5,000.00 | |
| Exhibits, Plotting & Mounting | | LS | \$2,500.00 | |
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TOTAL ODC'S

SUB CONSULTANT SERVICES

| COMPANY | LABOR | MULTIPLIERS | ODC's | TOTAL |
|---------|-------|-------------|-------|-------|
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TOTAL SUBCONSULTANT SERVICES

TOTAL \$19,930.64

| MANHOUR WORKSHEET | | | | | | | | | Was a service of | | | |
|---|----------|---------------|----------|--------------|---------------|----------------------|----|----|------------------|-------|----|-------|
| COMPANY: | | | | | | SCOPE OF WORK: | | | PHASE: | | | |
| Tatsumi and Partners, Inc | | | | | | Construction Support | τ | | Phase IV DATE: | | | |
| PROJECT: Jurupa Road Grade Separation | | | | | | | | | January 19, 2023 | | | |
| | A-204/19 | | | | | /833/ | | | /// | | | |
| | | / | chitec | , ide | et de | | | // | | // | | |
| TASK | / | All And Scale | Harraget | Tridscape De | dation Design | | // | | /// | /// | | |
| | Princi | or Project | Jend | Se Seal I | Design | 1 in 1 | | | // | Hours | (| COST |
| | \$266.33 | \$118.16 | \$105.19 | \$105.19 | \$72.05 | \$77.81 | | | | | | |
| Total Manhours | 16 | 32 | 33 | 33 | 33 | 33 | | | | 180 | | |
| ARTICLE AVII - CONSTRUCTION SUPPORT PHASE | | | | | | | | | | | | |
| A. Project Administration (12 months) | 12 | | | | | | | | | 12 | \$ | 3,196 |
| B. Pre-Construction Meeting | | | | | | | | | | | | |
| C. Meetings & Site Reviews | 2 | 12 | 3 | 3 | 3 | 3 | | | | | \$ | 3,031 |
| D. Response to Inquiries/RFI's | 2 | 10 | 10 | 10 | 20 | 20 | | | | 72 | - | 6,815 |
| E. Submittal & Shop Drawing Review | | 10 | 20 | 20 | 10 | 10 | | | | 70 | \$ | 6,888 |
| F. Change Order Support | | | | | | | | | | | | |
| G. Outreach Support | | | | | | | | | | | | |
| H. As-Builts | | | | | | | | | | | | |
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