

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



**ITEM:** 3.89  
(ID # 25145)

**MEETING DATE:**  
Tuesday, December 03, 2024

**FROM :** TLMA-TRANSPORTATION

**SUBJECT:** TRANSPORTATION AND LAND MANAGEMENT AGENCY/TRANSPORTATION: Approval of Amendment No. 1 to the Contract between the County of Riverside and Granite Construction Company for the Construction of the Jurupa Road / Union Pacific Railroad Grade Separation Project, in the City of Jurupa Valley. District 2. [\$39,609,105 Total Amendment Cost, \$117,250,000 Total Cost – State Funds 48%, Riverside County Transportation Commission 52%]

**RECOMMENDED MOTION:** That the Board of Supervisors:

1. **Approve** Amendment No. 1 to the Contract between the County of Riverside and Granite Construction Company for the Construction of the Jurupa Road / Union Pacific Railroad Grade Separation Project and authorize the Chair of the Board to execute the same.

**ACTION:Policy**


  
Dennis Acuna, Director of Transportation 11/21/2024

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**MINUTES OF THE BOARD OF SUPERVISORS**

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

Ayes: Jeffries, Spiegel, Washington, Perez and Gutierrez  
Nays: None  
Absent: None  
Date: December 3, 2024  
xc: TLMA-Transp.

Kimberly A. Rector  
Clerk of the Board  
By:   
Deputy

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STATE OF CALIFORNIA**

<b>FINANCIAL DATA</b>	<b>Current Fiscal Year:</b>	<b>Next Fiscal Year:</b>	<b>Total Cost:</b>	<b>Ongoing Cost</b>
<b>COST</b>	\$ 20,000,000	\$ 19,609,105	\$ 39,609,105	\$ 0
<b>NET COUNTY COST</b>	\$ 0	\$ 0	\$ 0	\$ 0
<b>SOURCE OF FUNDS:</b> SB 132 (48%) and RCTC (52%). There are no General Funds used in this project.			<b>Budget Adjustment:</b> No	
			<b>For Fiscal Year:</b> 23/24-26/27	

**C.E.O. RECOMMENDATION:** Approve

**BACKGROUND:**

**Summary**

The County of Riverside (County) is constructing a new grade separation project that will replace the existing Union Pacific at-grade Railroad (UPRR) crossing on Jurupa Road and Van Buren Boulevard. This project is in the City of Jurupa Valley and the County has been designated as the Lead Agency for this grade separation.

The proposed project will improve vehicular traffic circulation and safety and will provide uninterrupted efficient access for motorists, residents, businesses, pedestrians, and emergency vehicles in the area, as well as improving air quality and noise reduction. Additionally, the project will enhance the operational characteristics of freight and passenger trains throughout Riverside County by eliminating conflicts between railroad operations and vehicular traffic.

On April 28, 2017, Governor Brown signed Senate Bill (SB) 132, creating and funding the Riverside County Transportation Efficiency Corridor, which consists of five projects in Western Riverside County, including \$108,400,000 for the Jurupa Road Grade Separation project.

On March 23, 2021 (Agenda Item 3.41), the County of Riverside Board of Supervisors authorized the Clerk of the Board to advertise the construction of this project.

On July 20, 2021, (Agenda Item 3.43) the County of Riverside Board of Supervisors awarded the construction contract for this project to Granite Construction Company (Granite) int the amount of \$64,790,010.

Coordination with the UPRR has been challenging, particularly throughout the COVID-19 pandemic period. To keep the project moving forward, the County developed a plan to construct the portions of the project located outside of UPRR right of way while still finalizing the design of the UPRR facilities located within their jurisdiction. This allowed the County to advertise this project and not risk losing SB 132 funds. The SB 132 funds encumbrance deadline of June 30, 2023, influenced the County's need to phase the project delivery and the costs incurred for the project while finalizing the construction and maintenance (C&M) agreement with UPRR. Construction of the project began on July 21, 2021. Since that time, inflation, labor costs, supply

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STATE OF CALIFORNIA**

chain challenges, and lack of authority to proceed with construction within UPRR jurisdiction led to additional costs that were not anticipated for the project to be completed. Furthermore, during the approval of the UPRR plans, UPRR has also revised and updated their standards and requirements related to the construction of their facilities which resulted in unforeseen additional improvements and costs. \$12,850,884.90 in contract change orders have been issued to Granite prior to this Amendment No. 1.

To expedite the project's completion and prevent extra costs associated with negotiating multiple contract change orders for issues such as construction delay claims, design omissions, changed field conditions, and right-of-way obligations, the County and Contractor, Granite, have reached an agreement to address these matters as detailed in this Amendment No. 1.

Amendment No. 1 shall convert the current construction Contract from an itemized contract format with unit prices subject to additions and deductions as provided in the Contract Documents to a lump sum format contract not subject to additions and deductions as provided in the Contract Documents. The lump sum contract will provide a fixed price for completing all project construction including the additional UPRR work. As a result, the Contract price shall be increased by \$39,609,105.10 and 319 working days will be added to complete the project.

Project Number: C8-0060

**Impact on Residents and Businesses**

The project will eliminate the existing at-grade crossing on Jurupa Road at the UPRR tracks to provide uninterrupted and efficient access for motorists, residents, businesses, pedestrians, and emergency vehicles in the area. Additionally, the project will enhance the operational characteristics (i.e. speed, efficiency, and reliability) of freight and passenger trains throughout 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 (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 \$108,400,000 for the Jurupa Road Grade Separation project. SB-132 funds for the project will be distributed through the RCTC.

On July 20, 2021 (Agenda Item 3.42), the Board of Supervisors approved the Agreement by and Between the County and RCTC to additionally fund \$25 million for the construction of the Jurupa Grade Separation Project.

The County Board of Supervisors approved Amendment No. 1 to the Agreement between the County and RCTC on May 7, 2024 (Agenda Item 3.26) due to significant delays in obtaining the

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C&M agreement with UPRR. This amendment allocated an extra \$35 million to the construction of the Jurupa Road Grade Separation Project.

**Contract History and Price Reasonableness**

N/A

**ATTACHMENTS:**

Vicinity Map  
Amendment No. 1



Jason Farin, Principal Management Analyst 11/26/2024



Aaron Gettis, Chief of Deputy County Counsel 11/26/2024

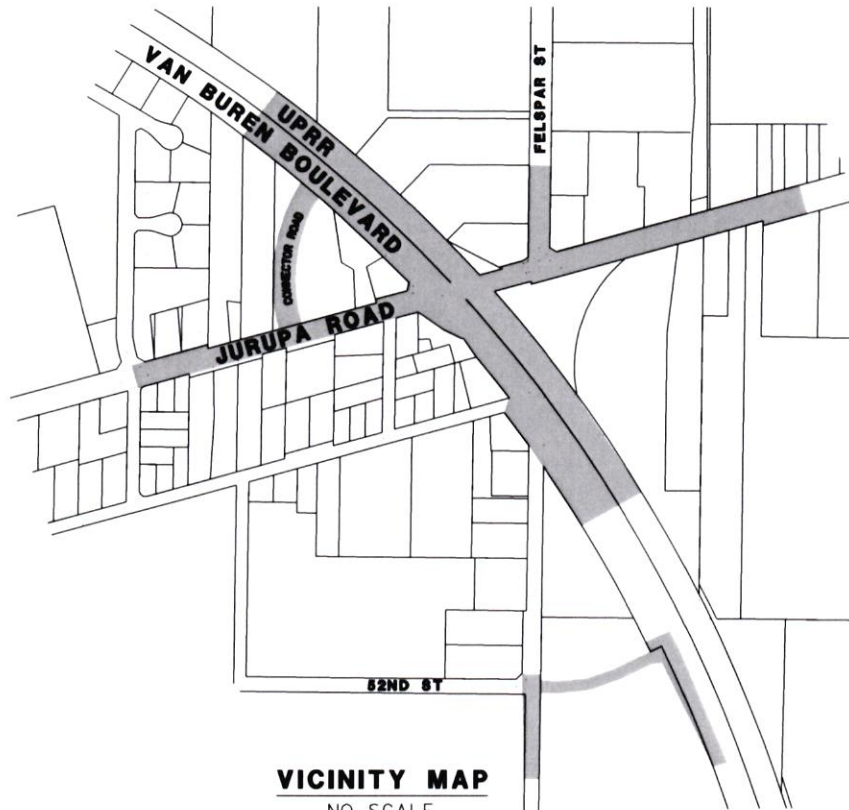
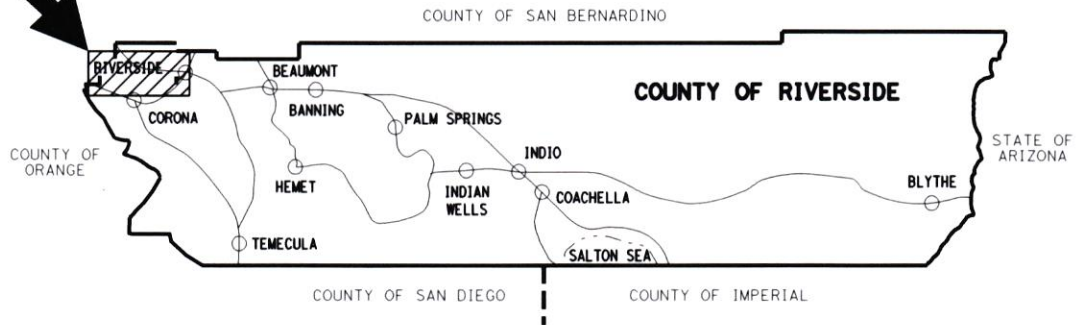
COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT

# JURUPA ROAD

UPRR GRADE SEPARATION PROJECT

CITY OF JURUPA VALLEY

PROJECT  
SITE



**VICINITY MAP**  
NO SCALE

### **Amendment No. 1 to the Contract**

This AMENDMENT NO. 1 TO THE CONTRACT (hereafter called "Amendment No. 1") is entered into at Riverside, California as of the date set forth below and is between County of Riverside (hereafter called "County") and **Granite Construction Company** (hereafter called "Contractor").

#### WITNESSETH

#### **Recitals:**

1. County and Contractor have entered into that certain Riverside County Contract No. 21-05-013 for the construction of County Project, **Jurupa Road / Union Pacific Railroad, Grade Separation Project, In the City of Jurupa Valley, Project No. C8-0060, State Project No. – SB132L 6054 (086)**, approved by the Board of Supervisors of the County of Riverside (hereafter called "Board") on July 20, 2021, Agenda Item 3.43, in the amount of \$64,790,010.00, which was a unit price contract subject to additions and deductions as provided in the Contract Documents with a time of completion of 455 working days (hereafter called "Contract").
2. The Notice to Proceed on the Project issued by County to Contractor, dated on or about July 8, 2021, was effective July 20, 2021, with Contractor's first chargeable working day being July 21, 2021.
3. Coordination with the Union Pacific Railroad (hereafter called "UPRR") and the finalization of the Construction and Maintenance Agreement (hereafter called "C&M Agreement") between County and UPRR caused significant delays. UPRR also revised and updated its requirements related to the construction of its facilities during approval of the C&M Agreement, which caused design changes. This along with inflation, labor costs, and supply chain challenges led to additional costs that were not anticipated for the Project to be completed.
4. County and Contractor have entered into the following fourteen (14) Contract Change Orders (hereafter individually a Contract Change Order is called "CCO" and hereafter multiple Contract Change Orders are collectively called "CCOs") prior to the execution of this Amendment No. 1: CCO No. 1, CCO No. 2, CCO No. 3, CCO No. 4, CCO No. 4S1, CCO No. 5, CCO No. 6, CCO No. 8, CCO No. 9, CCO No. 11, CCO No. 12, CCO No. 13, CCO No. 13S1, and CCO No. 18 (hereafter called "Prior CCOs").
5. The Prior CCOs covered in part the delays, among other things, including but not limited to, design errors and omissions, changed field conditions, and utility interferences. In aggregate, the Prior CCOs increased the Contract amount by \$12,850,884.90, for a new Contract amount of \$77,640,894.90, and increased the Contract time of completion by 615 working days, for a new Contract time of completion of 1,070 working days.

6. Since the approval of the C&M Agreement by the Board on November 28, 2023, Agenda Item 3.50, County and Contractor each have spent considerable resources on good faith negotiations of many other CCOs to address the rest of the claims, including but not limited to, claims for delays, design errors and omissions, changed field conditions, and right-of-way obligations.
7. In order to move the Project forward as expeditiously and efficiently as possible and to avoid the cost incident to negotiating numerous CCOs, the parties hereto have agreed to the full and final resolution of all past and present matters arising from the Project, including but not limited to, Contract changes, claims, delays, and right of way obligations, and have agreed to the respective rights and obligations as set forth in this Amendment No. 1.

**Agreement:**

It is agreed by the parties as follows:

1. New Contract Change Orders

Contractor is hereby directed to make the described changes from the plans and specifications or do the following described work not included in the plans and specification of the Contract, which includes but is not limited to, furnishing all labor, equipment and materials, set forth in the following CCOs, all of which are attached hereto this Amendment No. 1 and incorporated herein by this reference: CCO No. 6S1, CCO No. 10, CCO No. 14, CCO No. 17, CCO No. 20, CCO No. 21, CCO No. 22 (hereafter called "New CCOs").

Full and complete compensation for the New CCOs is included in the Lump Sum set forth below. Any and all adjustments to the Contract time of completion to account for the New CCOs are included in the Time Adjustment set forth below. Contractor shall not be entitled to any further compensation or adjustments to the Contract time of completion for the New CCOs.

2. Compensation

This Amendment No. 1 shall convert the Contract from a unit price contract subject to additions and deductions as provided in the Contract Documents to a lump sum contract not subject to additions and deductions as provided in the Contract Documents and shall increase the Contract amount by \$39,609,105.10, from a unit price contract in the amount of \$77,640,894.90 to a lump sum contract in the amount of \$117,250,000.00 (hereafter called the "Lump Sum") calculated as follows:

Original Contract Amount:	\$ 64,790,010.00
Prior CCOs:	+ \$ 12,850,884.90
Amendment No. 1:	+ \$ 39,609,105.10
<hr/>	
<b>Adjusted Contract Amount (Lump Sum):</b>	<b>\$117,250,000.00</b>

Except solely as provided in Section 2.1 below, the Lump Sum above shall be considered full and complete compensation for Contractor to complete all work to fulfill the scope and intent of the Project, including but not limited to, furnishing all labor, equipment, materials, and coordination to deliver the Project inclusive of all risks, conflicts, inefficiencies, and discrepancies, according to the

Contract Documents, as modified or changed up through the completion of the Project and acceptance of the Project as complete by the Board pursuant to the General Conditions, which includes but is not limited to, the following:

- a. Partnering and Dispute Resolution Board (DRB) under CCO No. 6S1 through completion of the Project and acceptance of the Project as complete by the Board;
- b. Removing and disposing all contaminated soil under CCO No. 8;
- c. All costs, including but not limited to time related overhead costs, arising from the C&M Agreement delay;
- d. Jurupa Road Underpass (BR-1) and Retaining Wall changes per Field Memo #29.2, except work completed prior to the issuance of Field Memo #29.2, which shall be furnished in accordance with the original, unmodified Contract Drawings and Specifications;
- e. Modifications and resolution to signal and lighting under CCO No. 17 (Bid Item 146 and 146F);
- f. All Stage 1 shoring under CCO No. 20 needed until completion of the Project and acceptance of the Project as complete by the Board;
- g. Furnishing and maintaining all necessary de-watering systems including the proper processing of contaminated water under CCO No. 21 through completion of the Project and acceptance of the Project as complete by the Board;
- h. Bly Storm Channel (per Field Memo #22.2) under CCO No. 22;
- i. All temporary stockpile removal, hauling, and relocation from/to Rutile property through completion of the Project and acceptance of the Project as complete by the Board;
- j. All duration based items as specified in the Contract Documents through completion of the Project and acceptance of the Project as complete by the Board, including but not limited to:
  - i. Resident Engineer's Office;
  - ii. Dust Abatement;
  - iii. Progress Schedule (Critical Path Method);
  - iv. UPRR Weekly and Monthly Track Schedules;
  - v. All leases and fees for off-site track staging/storage areas;
  - vi. Developing Water Supply;
  - vii. Shoring;
  - viii. Water Meter Charges;
  - ix. Funding Awareness Sign;
  - x. Traffic Control System (including furnishing and maintaining all devices, striping, and markings) for all stages and intermittent phases of the Project;
  - xi. Storm Water Pollution Plan Implementation and Maintenance per Risk Level 2 requirements;
  - xii. Trackout plates;
  - xiii. Portable Restrooms;
  - xiv. Trash Removal, Clearing and Grubbing;
  - xv. All training and railroad badging; and



- xvi. All applicable certifications.
- k. Bonds and Insurance, as specified in Contract Documents through completion of the Project and acceptance of the Project as complete by the Board;
- l. All escalation costs (Labor, Equipment, Materials, & Subcontractors) through completion of the Project and acceptance of the Project as complete by the Board;
- m. Furnishing and installing 24" Dia Water Transmission Relocation from Sta 10+00 to Sta 17+00 according to the latest revised Contract plan sheets as agreed to in jack and bore workplan per JCSD (COR #58, and Submittal #371.3);
- n. All work shown and described on/in the UPRR Engineering Design Drawings and specifications dated as of March 13, 2024, including but not limited to track survey, track flagging, grading, drainage, track construction, track seasoning periods, and coordination with UPRR associated with UPRR DOT: 810979D per Field Memo #41;
- o. The removal and replacement of unsuitable materials for trackwork construction;
- p. Furnish & install shoring according to the latest UPRR & BNSF Guidelines;
- q. Modifications and construction of Retaining Wall No. F-52;
- r. Contractor to perform work as instructed, directed, authorized, or clarified in all Field Memos through completion of the Project and acceptance of the Project as complete by the Board. As of the Effective Date of this Amendment No. 1 Field Memos #1-47 have been issued; and
- s. All general conditions work, including field and home office services, graffiti removal and cleaning, project appearance, etc. through completion of the Project and acceptance of the Project as complete by the Board.

For the avoidance of doubt, the Lump Sum shall be considered as full and complete compensation for all work ordered on a force account basis prior to the Effective Date on the Project set forth in the Contract Documents, including the Prior CCOs, irrespective of any force account allowance set forth in the Contract Documents. Contractor shall complete all work directed on a force account basis prior to the Effective Date as set forth in the Contract Documents, including the Prior CCOs, and Contractor shall not be entitled to any further compensation for said force account work beyond the Lump Sum above.

In exchange for the Lump Sum, Contractor assumes any and all construction related risks on the Project except solely as provided in Section 2.1 below. Except as provided in Section 2.1 below and subject to the Standard Specifications section 5-1.39B and insurance requirements contained in the Contract Documents, the Lump Sum is deemed to cover all losses, foreseeable or unforeseeable, arising out of or related to past, present, or future circumstances within or outside the control of the Contractor or its subcontractors affecting the time or cost of performing the work on the Project, including without limitation, the effects of natural elements upon the work, unforeseen difficulties or obstructions affecting the performance of work (including, without limitation, changed field conditions unrelated to the UPRR right-of-way and design errors or omissions that are not the result of actual negligence, recklessness, or willful misconduct of the Engineer of Record that the Engineer of Record is responsible for under the Engineering Services Agreement between the Engineer of Record and the County) and unforeseen fluctuations in market conditions and price escalations (whether occurring locally, nationally, or internationally).

After the Effective Date of this Amendment No. 1, if a design change is requested by Contractor (hereafter called "Contractor Requested Design Change") or required due to a RFI response, changed field conditions unrelated to the UPRR right-of-way, a design error or omission that is not the result of actual negligence, recklessness, or willful misconduct of the Engineer of Record that the Engineer of Record is responsible for under the Engineering Services Agreement between the Engineer of Record and the County, or any other reason whatsoever, except solely as provided in Section 2.1 below, (hereafter called "Required Design Change"), County and Contractor shall mutually agree on said Contractor Requested Design Change or Required Design Change and said Contractor Requested Design Change or Required Design Change shall be memorialized in a zero dollar CCO signed by County and Contractor. For all Contractor Requested Design Changes, the cost of said design changes, including any and all associated fees (e.g., UPRR fees), shall be completely borne by Contractor; Contractor shall reimburse County for the cost of all said Contractor Requested Design Changes. A Contractor Requested Design Change shall not negatively impact the Project schedule critical path. In the event the Required Design Change negatively impacts the Project schedule critical path, such delay caused by the Required Design Change shall be excused but non-compensable. County shall include an equitable adjustment to the Contract time of completion in the zero dollar CCO for such Required Design Change. All plans for the Contractor Requested Design Change or Required Design Change shall be signed and stamped by a Civil Engineer who is registered as such in the State of California. Contractor shall not proceed with the Contractor Requested Design Change or Required Design Change until the zero dollar CCO is signed by County and Contractor. For the avoidance of doubt, all record drawing provisions in the Contract Documents shall still apply and include each Contractor Requested Design Change or Required Design Change.

County shall not be responsible for future price escalations and/or increases related to the Project (except for future changes solely as provided in Section 2.1 below). Contractor represents that the Lump Sum includes all costs, expenses, fees, and other such accounts for all materials, services, supplies, labor, equipment, general conditions, and everything else needed for Contractor to complete the entire work in accordance with the Contract Documents, as modified or changed up through the completion of the Project and acceptance of the Project as complete by the Board, including without limitation, insurance, overhead, bonds, taxes, fees for permits, inspections and licenses, and costs of all utilities. Contractor has specifically included price protection in the Lump Sum. Contractor has anticipated labor price increases throughout the duration of the Project and has adjusted the price accordingly. The Lump Sum shall resolve and shall compensate Contractor and its subcontractors of all tiers, including but not limited to, all vendors and suppliers, for all changes/modifications, profit, overhead, escalations, acceleration, inefficiencies, damages, losses, interest, and costs of any nature as well as claims through completion of the Project and acceptance of the Project as complete by the Board (except for claims for an adjustment to the Lump Sum as solely permitted in Section 2.1).

**Contractor shall not be entitled to any further compensation for the Project other than the Lump Sum set forth above, except solely as provided in Section 2.1 below.**

The parties agree that the Lump Sum to be paid by County to Contractor pursuant to this Amendment No. 1 shall be paid on a percentage completion basis as determined by the Schedule of Values, attached hereto and incorporated herein by this reference. For the avoidance of doubt, all payment

retention provisions in the Contract Documents shall still apply; County may withhold five percent (5%) of all progress payments until completion of the Project and acceptance of the Project as complete by the Board. All previous payments made by County to Contractor for the Project shall count towards the Lump Sum.

## 2.1 Sole Compensable Changes

Contractor shall only be entitled to additional compensation above and beyond the Lump Sum set forth above if (1) the County initiates changes to the Project, which are not required to construct the Project in accordance with the scope and intent of the Project, or (2) design changes are required solely due to the following that are not known as of the Effective Date (as defined below) of this Amendment No. 1: (a) design errors or omissions that are the result of actual negligence, recklessness, or willful misconduct of the Engineer of Record (hereafter called "EOR") that the EOR is responsible for under the Engineering Services Agreement between the EOR and the County (approved by the Board on March 13, 2018, Agenda Item 3.18), or (b) changed field conditions related to the UPRR right-of-way; and the cumulative value of all such changes set forth in (1) or (2) above exceed \$1,250,000, except as further stated below in this Section 2.1 (hereafter called "Sole Compensable Changes"). Said Sole Compensable Changes shall be memorialized in a CCO signed by both County and Contractor that equitably adjusts the Lump Sum for the cumulative value of the Sole Compensable Changes above and beyond the \$1,250,000 threshold and the Contract time of completion if the Sole Compensable Changes negatively impacts the Project schedule critical path.

For the avoidance of doubt, if (1) the County initiates changes to the Project, which are not required to construct the Project in accordance with the scope and intent of the Project, or (2) design changes are required solely due to the following that are not known as of the Effective Date (as defined below) of this Amendment No. 1: (a) design errors or omissions that are the result of actual negligence, recklessness, or willful misconduct of the EOR that the EOR is responsible for under the Engineering Services Agreement between the EOR and the County, or (b) changed field conditions related to the UPRR right-of-way; and the cumulative value of all such changes set forth in (1) or (2) above do not exceed \$1,250,000 (hereafter called "Non-Compensable County Changes"), Contractor shall implement the changes and such costs shall be considered included within the Lump Sum. Said Non-Compensable County Changes shall be memorialized in a zero dollar CCO signed by both County and Contractor that shall express the price value of the changes described therein for accounting purposes (e.g., to facilitate tracking of the cumulative price impacts of the Non-Compensable County Changes against the \$1,250,000 threshold, as applicable) and that equitably adjusts the Contract time of completion if the Non-Compensable County Changes negatively impacts the Project schedule critical path.

All plans for the Sole Compensable Changes and Non-Compensable County Changes shall be signed and stamped by a Civil Engineer who is registered as such in the State of California. Contractor shall not proceed with the Sole Compensable Changes or Non-Compensable County Changes until a CCO is signed by County and Contractor. For the avoidance of doubt, all record drawing provisions in the Contract Documents shall still apply and include all Sole Compensable Changes and Non-Compensable County Changes. The Sole Compensable

Changes and Non-Compensable County Changes hereunder are not a Contractor Requested Design Change or a Required Design Change as set forth above.

Notwithstanding the foregoing, once the \$1,250,000 threshold has been reached, Contractor shall only be entitled to additional compensation above and beyond the Lump Sum set forth above for design changes that are required solely due to design errors or omissions that are the result of actual negligence, recklessness, or willful misconduct of the EOR that the EOR is responsible for under the Engineering Services Agreement between the EOR and the County, when a said design error or omission individually causes Contractor to incur additional costs or damages in excess of \$1,000,000; and (i) the County is indemnified by the EOR for said design error or omission if a claim against the EOR for indemnification of the design error or omission is authorized by the Board, or (ii) a claim against the EOR for indemnification of the design error or omission is not authorized by the Board. Said design change shall be memorialized in a CCO signed by both County and Contractor that equitably adjusts the Lump Sum above and beyond the \$1,250,000 threshold and equitably adjusts the Contract time of completion if the design change negatively impacts the Project schedule critical path. If a claim against the EOR for indemnification of the design error or omission is authorized by the Board, County shall use its best efforts to pursue recovery against the EOR. Furthermore, if the County is indemnified by the EOR for said design error or omission (if a claim against the EOR is authorized by the Board), the equitable adjustment to the Lump Sum shall be the amount the County receives from the EOR for the design error or omission, and Contractor shall be paid within sixty (60) days of County's receipt of payment. If a claim against the EOR for indemnification of the design error or omission is not authorized by the Board, the equitable adjustment to the Lump Sum shall be the amount County and Contractor mutually agree to for the design error or omission; if the parties fail to mutually agree to an equitable adjustment to the Lump Sum, the claims process in the Contract Documents shall govern. For the avoidance of doubt, once the \$1,250,000 threshold has been reached, if design changes that are required solely due to design errors or omissions that are the result of actual negligence, recklessness, or willful misconduct of the EOR that the EOR is responsible for under the Engineering Services Agreement between the EOR and the County, and a said design error or omission individually causes Contractor to incur additional costs or damages less than or equal to \$1,000,000, or if a claim against the EOR for indemnification of the design error or omission is authorized by the Board but County is not indemnified by the EOR for said design error or omission that causes the Contractor to incur additional costs or damages in excess of \$1,000,000, Contractor shall implement the changes and such costs shall be considered included within the Lump Sum.

### 3. Time

This Amendment No. 1 shall add three hundred nineteen (319) working days to the Contract time of completion (hereafter called "Time Adjustment") per the time-impact analysis (TIA) schedule dated October 23, 2024, inclusive of all track changes, attached hereto and incorporated herein by this reference. The Contractor shall diligently prosecute the work to fulfill the scope and intent of the Project to completion before the expiration of **1,389 working days** from the date stated in the "Notice to Proceed" calculated as follows:

Original Contract Time of Completion: 455 working days  
CCO No. 13: + 167 working days  
CCO No. 13S1: + 448 working days  
Amendment No. 1 (Time Adjustment): + 319 working days

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Adjusted Contract Time of Completion: 1,389 working days

For the avoidance of doubt, the definition of “working day” and its exceptions and the counting thereof shall still be in accordance with Standard Specifications Section 1-1.07B. Unless the Contract time of completion is adjusted as provided in Section 2 or Section 2.1 above or Section 3.1 below, Contractor shall not be entitled to any additional adjustments to the Contract time of completion. For the avoidance of doubt, both parties agree the liquidated damages provisions set forth in the Contract Documents shall still apply.

### 3.1 UPRR Delays

The Time Adjustment above includes the two (2) required known cutover activities and seasoning periods clarified/directed in responses to RFIs 487 and 494, each with a minimum thirty (30) calendar day duration (hereafter called “UPRR Activities”). In the event the total duration of the UPRR Activities exceed sixty (60) calendar days and negatively impacts the Project schedule critical path, any such further delay caused by UPRR Activities shall be excused but non-compensable. County shall issue a zero dollar CCO to equitably adjust the Contract time of completion for such UPRR-caused delay(s), provided Contractor’s request or claim is submitted in conformance with the Contract Documents.

### 4. Release

As part of the Lump Sum exchanged pursuant to this Amendment No. 1, except for claims for an adjustment to the Contract time of completion as permitted in Sections 2, 2.1 and 3.1 above and except for claims for an adjustment to the Lump Sum as solely permitted in Section 2.1 above, upon the Effective Date (defined below) of this Amendment No. 1, Contractor, on behalf of itself and its successors, assignees, and affiliates, hereby fully releases and discharges the County, as well as, without limitation, its divisions, agencies, districts, special districts and departments, their respective directors, officers, Board of Supervisors, elected and appointed officials, employees, agents and representatives, successors, assigns, officers, directors, board members, partners, members, managers, supervisors, and attorneys (hereafter called the “County Released Parties”), from any and all claims, actions, causes of action, damages, losses, liabilities and expenses of whatever kind or nature, in law, equity or otherwise arising out of the Project.

Contractor acknowledges that it understands and waives the provisions of Section 1542 of the California Civil Code with respect to the claims resolved herein, which states as follows:

SECTION 1542. GENERAL RELEASE. A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS THAT THE CREDITOR OR RELEASING PARTY DOES NOT KNOW OR SUSPECT TO EXIST IN HIS OR HER FAVOR AT THE TIME OF

EXECUTING THE RELEASE AND THAT, IF KNOWN BY HIM OR HER, WOULD HAVE MATERIALLY AFFECTED HIS OR HER SETTLEMENT WITH THE DEBTOR OR RELEASED PARTY.

Contractor expressly acknowledges that it may hereafter discover facts in addition to or different from those it now knows or believes to be true with respect to the underlying contracts or agreements at issue, the Project, and/or the released claims herein, and that it is its intention, to fully, finally and forever settle and resolve matters released herein, known and unknown, suspected or unsuspected, which existed, now exists, or may exist, and that in furtherance of their mutual intention, the parties acknowledge and agree that this waiver is an essential and material term of this Amendment No. 1 and, without such waiver this Amendment No. 1 would not have been entered into.

In waiving the provisions of Section 1542 of the Civil Code, the Contractor acknowledges that it may hereafter discover facts in addition to or different from those which it now believes to be true with respect to the claims released by this Amendment No. 1 but agrees that it has taken that possibility into account and the releases herein given shall be and remain in effect as a full and complete general release notwithstanding the discovery or existence of any such additional or different facts.

Contractor represents and warrants that it has not sold, transferred, conveyed, or assigned any of the claims released under this Amendment No. 1, or any interest therein or a portion thereof, to any other person or entity.

For the avoidance of doubt, nothing herein shall prevent Contractor from enforcing the terms, conditions, and obligations set forth in this Amendment No. 1.

In addition, as part of the Lump Sum exchanged pursuant to this Amendment No. 1, Contractor further agrees to indemnify, defend and hold the County and the County Released Parties harmless from any and all claims and lawsuits by Contractor's subcontractors, of any tier, for claims arising out of the Project.

Within forty-five (45) days of the Contractor's first monthly progress payment request after the Effective Date of this Amendment No. 1, County shall fully pay Contractor Item #111 set forth in the Schedule of Values.

#### 5. Miscellaneous

- A. Recitals. The above recitals are true and correct and are incorporated herein by reference.
- B. Third Party Claims. Any claim by a third party business for business interference/interruption and loss of revenue or profits related to the Project that is not the responsibility of Contractor under the Contract Documents shall be the sole responsibility of County. Nothing herein shall be construed as County waiving any privileges, immunities, and/or defenses provided to it under applicable contracts or law. Contractor represents and warrants it does not know of any impending third party claims and shall not encourage any such third party claims.
- C. Contact Documents. This Amendment No. 1 shall be added to the list of documents that comprise the Contract Documents as set forth in Section 1 of the Contract.

- D. ARPA Funds. Contractor acknowledges that a portion of the Project is funded through American Rescue Plan Act (ARPA) funds. Contractor agrees to comply with the Federal Provisions set forth in the Federal Provisions Attachment, attached hereto this Amendment No. 1 and incorporated herein. All references therein to "Subrecipient" shall be understood to refer to "Contractor."
- E. Attorneys' Fees. Each party shall bear its own attorneys' fees, consultant fees and costs, incurred in connection with the negotiation or enforcement of this Amendment No. 1.
- F. Entire Agreement. This Amendment No. 1 contains the entire understanding of the parties with respect to the subject matter contained herein and is entered into by the parties without reliance on any statement, representation, promise, inducement or agreement except those expressly set forth in this Amendment No. 1. The parties acknowledge and agree that there are no other agreements, oral and/or written, among or between the parties, related to the subject matter of this Amendment No. 1.
- G. Modifications. This Amendment No. 1 may not be amended or modified except by a written instrument executed by all the parties to this Amendment No. 1.
- H. Interpretation. The parties acknowledge that they have read this Amendment No. 1, have had the opportunity to review it with an attorney of their respective choice, and have agreed to all of its terms. This Amendment No. 1 is being entered into in good faith by the parties and was negotiated at arms-length. Under these circumstances, the parties agree that the rule of construction that a contract be construed against the drafter shall not be applied in interpreting this Amendment No. 1, and that in the event of any ambiguity in any of the terms or conditions of this Amendment No. 1, including any attachments hereto, such ambiguity shall not be construed for or against either party on the basis that such party did or did not author the same. Any captions and headings contained in this Amendment No. 1 are for convenience of reference only and are not to be considered in construing this Amendment No. 1.
- I. Severability. If any part of this Amendment No. 1 shall be determined to be illegal, invalid, or unenforceable, that part shall be severed and the remaining parts shall be valid and enforceable, so long as the remaining parts continue to fulfill the original intent of the parties.
- J. Counterparts. This Amendment No. 1 may be executed in any number of counterparts having original signatures, each of which will be an original, but all of which together will constitute one instrument.
- K. Choice of Law. This Amendment No. 1 is made and entered into in the State of California and shall in all respects be interpreted, enforced, and governed under the laws of said State of California without reference to its conflict of law rules. Any legal action related to the performance or interpretation of this Amendment No. 1 shall be filed only in the Superior Court of the State of California located in Riverside, California, and the parties waive any provision of law providing for a change of venue to another location.
- L. Binding on Successors and Assigns. This Amendment No. 1 shall be binding upon the parties, and their respective beneficiaries, trustees, successors, and assigns.

- M. No Other Modifications. Unless expressly modified herein, all Contract terms and conditions shall remain in full force and effect, including, but not limited to, warranty and indemnity obligations.
- N. Authorization to Execute. The parties represent and warrant as of the Effective Date of this Amendment No. 1 that the person executing this Amendment No. 1 is duly authorized to do so, that this Amendment No. 1 constitutes a valid and binding obligation, that there are no pending agreements, transactions or negotiations to which any of them is a party that would render this Amendment No. 1 or any part of this Amendment No. 1 void, voidable or unenforceable. Each individual executing this Amendment No. 1 on behalf of each party warrants and represents that he or she is duly authorized by that party to execute this Amendment No. 1 on its behalf.
- O. Subject to Approval. This Amendment No. 1 is subject to approval by the Board. Should this Amendment No. 1 not be approved by the Board for any reason, this Amendment No. 1 shall be null, void, and of no effect.
- P. Effective Date. This Amendment No. 1 shall be effective upon signature of this Amendment No. 1 by the authorized representatives of both parties (hereafter called "Effective Date"). Contractor shall proceed with the changes to the Contract expressed in this Amendment No. 1 upon the Effective Date. Time is of the essence in the performance of Contractor's obligations in the Contract Documents, as amended, including but not limited to, by the Prior CCOs, the New CCOs, and this Amendment No. 1.

[Signature Page Follows]



IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 1 as of the date set forth below.

COUNTY OF RIVERSIDE

GRANITE CONSTRUCTION COMPANY

BY: Chuck Washington  
CHUCK WASHINGTON  
Chair, Board of Supervisors

BY: Brian R. Dowd  
Brian R. Dowd  
Senior Vice President

DATED: 12/03/2024

TITLE: \_\_\_\_\_  
(If Corporation, affix Seal)

ATTEST:  
  
Kimberly Rector, Clerk of the Board

ATTEST:  
  
See attached Certificate of Secretary  
\_\_\_\_\_



BY: Mary L. [Signature]  
Deputy

TITLE: \_\_\_\_\_

RECOMMENDED FOR APPROVAL:

BY: [Signature]  
  
Director of Transportation

\_\_\_\_\_  
  
"Corporation"  
(Seal)

FORM APPROVED COUNTY COUNSEL  
BY: Kristine Bell-Valdez  
KRISTINE BELL-VALDEZ DATE



## GRANITE CONSTRUCTION COMPANY

### CERTIFICATE OF SECRETARY

---

I, M. Craig Hall, Secretary of GRANITE CONSTRUCTION COMPANY, a California corporation (the "Company"), do hereby certify that the following is a true and correct copy of resolutions duly adopted and effective on September 16, 2024 by a Unanimous Written Consent of the Board of Directors in accordance with the provisions of Article III, Section 9 of the Bylaws of the Company; that the Directors acting were duly and regularly elected; and that the resolutions adopted have not been repealed and are still in full force and effect:

#### AUTHORIZATION TO EXECUTE DOCUMENTS AND AGREEMENTS

**RESOLVED**, that the below listed officers are authorized to execute and deliver on behalf of the Company all documents, agreements and undertakings required in connection with construction contract formation and operations of the Company:

Kyle T. Larkin	President & Chief Executive Officer
Staci M. Woolsey	Executive Vice President, Chief Financial Officer & Assistant Secretary
James A. Radich	Executive Vice President, Chief Operating Officer & Assistant Secretary
Kimberly K. Craig	Senior Vice President of Corporate Finance, Treasurer & Assistant Secretary
Brian R. Dowd	Senior Vice President, Construction & Assistant Secretary
Bradly J. Estes	Senior Vice President, Materials & Assistant Secretary
Timothy W. Gruber	Senior Vice President, Human Resources & Assistant Secretary
M. Craig Hall	Senior Vice President, General Counsel, Corporate Compliance Officer & Secretary
Michael G. Tatusko	Senior Vice President, Construction & Assistant Secretary
Bradley J. Williams	Senior Vice President, Construction & Assistant Secretary
Michael W. Barker	Vice President, Investor Relations
Nicholas B. Blackburn	Vice President, Tax & Assistant Secretary
James D. Nickerson	Vice President & Assistant Secretary
Nicole E. Prettol	Vice President, Corporate Controller & Assistant Secretary

**RESOLVED FURTHER**, that the authority provided for herein shall be in accordance with applicable policies, procedures and limits of authority previously approved and the Granite Construction Incorporated Delegation of Authority and Policy then in effect.

**AUTHORIZATION TO ATTEST DOCUMENTS AND AGREEMENTS**

**RESOLVED**, that the below listed officers are authorized to attest documents, agreements and undertakings required in connection with construction contract formation and operations of the Company:

Kyle T. Larkin	President & Chief Executive Officer
Staci M. Woolsey	Executive Vice President, Chief Financial Officer & Assistant Secretary
James A. Radich	Executive Vice President, Chief Operating Officer & Assistant Secretary
Kimberly K. Craig	Senior Vice President of Corporate Finance, Treasurer & Assistant Secretary
Brian R. Dowd	Senior Vice President, Construction & Assistant Secretary
Bradly J. Estes	Senior Vice President, Materials & Assistant Secretary
Timothy W. Gruber	Senior Vice President, Human Resources & Assistant Secretary
M. Craig Hall	Senior Vice President, General Counsel, Corporate Compliance Officer & Secretary
Michael G. Tatusko	Senior Vice President, Construction & Assistant Secretary
Bradley J. Williams	Senior Vice President, Construction & Assistant Secretary
Michael W. Barker	Vice President, Investor Relations
Nicholas B. Blackburn	Vice President, Tax & Assistant Secretary
James D. Nickerson	Vice President & Assistant Secretary
Nicole E. Prettol	Vice President, Corporate Controller & Assistant Secretary
Jordy L. Murray	Deputy General Counsel & Assistant Secretary
Jason M. Jasper	Associate General Counsel, Operations & Assistant Secretary
Clinton R. Clark	Assistant Secretary
Todd N. Burford	Assistant Secretary

Dated: September 16, 2024

  
\_\_\_\_\_  
M. Craig Hall



## **Attachments**

CCO No. 6S1 (1 pages)

CCO No. 10 (1 pages)

CCO No. 14 (4 pages)

CCO No. 17 (5 pages)

CCO No. 20 (1 pages)

CCO No. 21 (1 pages)

CCO No. 22 (12 pages)

Federal Provisions Attachment (7 pages)

Time-Impact Analysis (TIA) schedule dated October 23, 2024, inclusive of all track changes (8 pages)

Schedule of Values (3 pages)



COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT

SHEET 1 OF 1 SHEETS

Contract Change Order No. 6S1

CONTRACT: Jurupa Road/Union Pacific Railroad  
Grade Separation Project  
In the City of Jurupa Valley

WORK ORDER NO.  
CALTRANS EA NO.  
LOCAL-FED AID NO.  
STATE-FED AID NO.

C8-0060  
N/A  
N/A  
SB132L 6054 (086)

TO: Granite Construction Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Continue Partnering for this contract in accordance with Section 5-1.09, "Partnering," of the Standard Specifications through project completion and acceptance of the Project as complete by the County of Riverside.

In addition, continue the Dispute Resolution Board (DRB) for this contract in accordance with Section 5-1.43, "Potential Claims and Dispute Resolution," of the Standard Specifications through project completion and acceptance of the Project as complete by the County of Riverside.

Estimated Cost: Included in Lump Sum per Amendment No. 1

Participating: Yes:  No:  N/A:

WE, the contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. By reason of this proposed change \*\* days adjustment of time will be allowed.

\*\* Included in Time Adjustment per Amendment No. 1



COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT

SHEET 1 OF 1 SHEETS

Contract Change Order No. 010

CONTRACT: Jurupa Road/Union Pacific Railroad  
Grade Separation Project  
In the City of Jurupa Valley

WORK ORDER NO. C8-0060  
CALTRANS EA NO. N/A  
LOCAL-FED AID NO. N/A  
STATE-FED AID NO. SB132L 6054 (086)

TO: Granite Construction Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Substitute the 15-in diameter 316 stainless steel floor drain (model ZM1737-TS) with a 15-in diameter polished nickel bronze floor drain (model Z536) at the pump station wet well.

Estimated Cost: Included in Lump Sum per Amendment No. 1

Participating: Yes:  No:  N/A:

WE, the contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. By reason of this proposed change \*\* days adjustment of time will be allowed.

\*\* Included in Time Adjustment per Amendment No. 1



COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT

SHEET 1 OF 1 SHEETS

Contract Change Order No. 014

CONTRACT: Jurupa Road/Union Pacific Railroad  
Grade Separation Project  
In the City of Jurupa Valley

WORK ORDER NO.  
CALTRANS EA NO.  
LOCAL-FED AID NO.  
STATE-FED AID NO.

C8-0060  
N/A  
N/A  
SB132L 6054 (086)

TO: Granite Construction Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Install three (3) vaults (see Attachment A) at the following locations:

- Sta 13+00 at Connector Rd/Miller Dwy,
- Sta 32+00 at Connector Rd/Jurupa Rd, and
- Sta 227+00 at Connector Rd/Van Buren Blvd.

Eliminate the planned fiber optic vaults at these same locations:

- Sta 13+00 at Connector Rd/Miller Dwy,
- Sta 32+00 at Connector Rd/Jurupa Rd, and
- Sta 227+00 at Connector Rd/Van Buren Blvd.

Estimated Cost: Included in Lump Sum per Amendment No. 1

Participating: Yes:  No:  N/A:

WE, the contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. By reason of this proposed change \*\* days adjustment of time will be allowed.

\*\* Included in Time Adjustment per Amendment No. 1

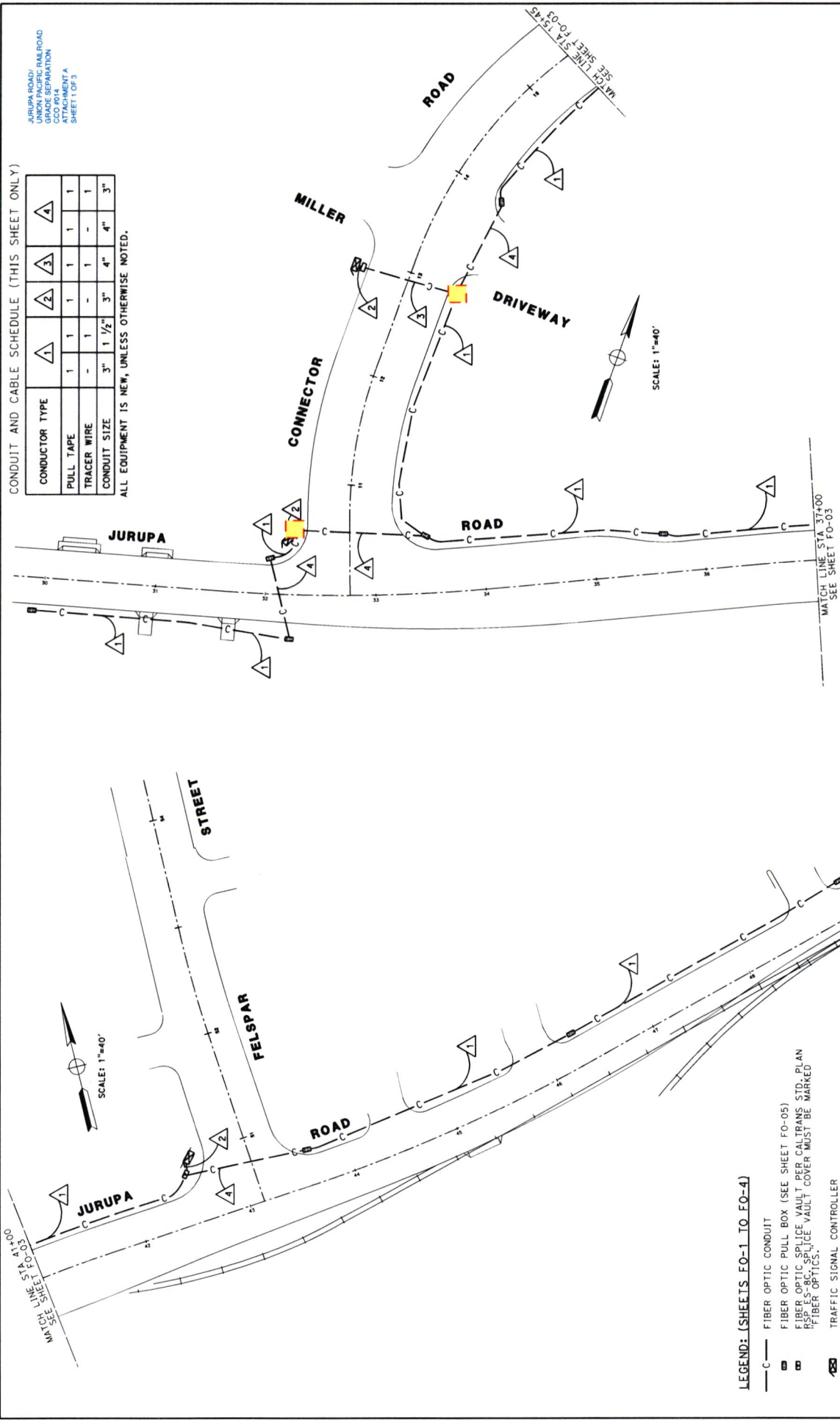


CONDUIT AND CABLE SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	1	2	3	4
PULL TAPE	1	1	1	1
TRACER WIRE	-	1	-	-
CONDUIT SIZE	3"	1 1/2"	3"	4"

ALL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED.

JURUPA ROAD / RAILROAD  
GRADE SEPARATION  
CCO R014  
ATTACHMENT A  
SHEET 1 OF 3



**LEGEND: (SHEETS FO-1 TO FO-4)**

- C — FIBER OPTIC CONDUIT
- FIBER OPTIC PULL BOX (SEE SHEET FO-05)
- ▣ FIBER OPTIC SPLICE VAULT PER CALTRANS STD. PLAN P-5P-ES-8C. SPLICE VAULT COVER MUST BE MARKED FIBER OPTICS.
- ⊠ TRAFFIC SIGNAL CONTROLLER

**GENERAL NOTES:**

1. CONDUIT LOCATION SHOWN ON PLANS ARE DIAGRAMMATICAL. INSTALL CONDUIT PER DETAIL ON SHEET FO-06.

REVISED		REVISIONS		PREPARED BY		FIBER OPTIC PLAN		SHEET No.	
REV	BY	DATE	DESCRIPTION	DATE	NAME	DATE	PROJECT	SHEET	OF
1	SH	09/16/18	ADDED SIGNATURE AND DATE	09/16/2017	Lin Construction, Inc.	09/16/2017	JURUPA ROAD GRADE SEPARATION AND CONNECTOR ROAD	FO-02	2

DATE PLOTTED => 16-SEP-2021  
TIME PLOTTED => 14:42  
LAWYER: JONATHAN  
SCALE: 1"=40'

USER NAME => srok  
JOB FILE => 1003008u009s\_FO-R1.dgn  
WO 00-0000  
COUNTY FILE No.

BORDER LAST REVISED 09/2017

RELATIVE BORDER SCALE  
1/8 IN. TYPICAL

**LEGEND: (SHEETS FO-1 TO FO-4)**

- C — FIBER OPTIC CONDUIT
- ▣ FIBER OPTIC PULL BOX (SEE SHEET FO-05)
- ▣ FIBER OPTIC SPLICE VAULT PER CALTRANS STD. PLAN RSP ES-9B. SPLICE VAULT COVER MUST BE MARKED "FIBER OPTICS."
- ▣ TRAFFIC SIGNAL CONTROLLER

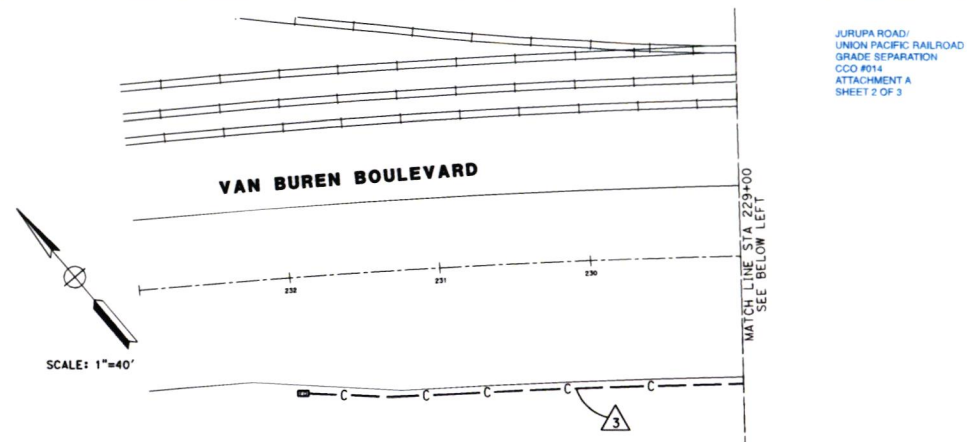
CONDUIT AND CABLE SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	1	2	3	4
PULL TAPE	1	1	1	1
TRACER WIRE	-	-	1	1
CONDUIT SIZE	3"	4"	4"	3" 1 1/2"

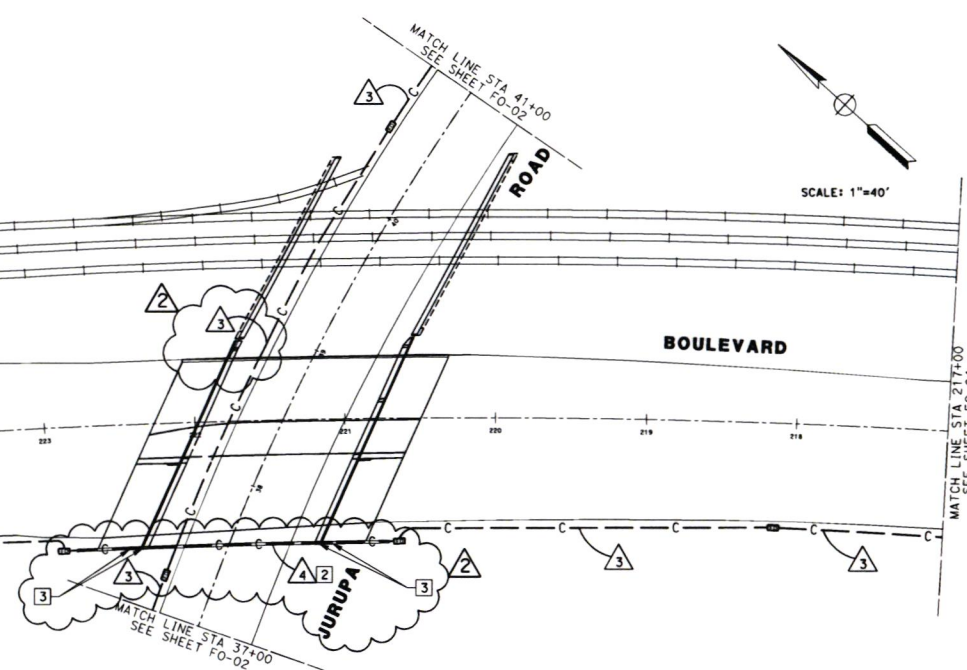
ALL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED.

**GENERAL NOTES:**

1. CONDUIT LOCATION SHOWN ON PLANS ARE DIAGRAMMATICAL. INSTALL CONDUIT PER DETAIL ON SHEET FO-06.
2. INSTALL CONDUIT IN BARRIER ACROSS VAN BUREN BRIDGE. SEE BRIDGE AND RETAINING WALL PLANS (SHEET NO. BR2-01, BR2-13, RW-11 AND RW-12) FOR DETAILS OF CONDUIT IN STRUCTURE.
3. INSTALL CONDUIT EXPANSION FITTING PER CALTRANS STD. PLAN ES-9B, DETAIL "X".



JURUPA ROAD/  
UNION PACIFIC RAILROAD  
GRADE SEPARATION  
CCO #014  
ATTACHMENT A  
SHEET 2 OF 3



MATCH LINE STA 229+00  
SEE ABOVE RIGHT

MATCH LINE STA 15+45  
SEE SHEET FO-02

MATCH LINE STA 37+00  
SEE SHEET FO-02

MATCH LINE STA 41+00  
SEE SHEET FO-02

MATCH LINE STA 217+00  
SEE SHEET FO-04

REVISIONS			PREPARED BY		FIBER OPTIC PLAN		SHEET No.
REV	BY	DESCRIPTION	APPR	DATE	JURUPA ROAD GRADE SEPARATION VAN BUREN BOULEVARD AND JURUPA ROAD SCALE: 1"=40'		<b>FO-03</b> SHEET 155-C OF 565
△	SH	ADDED SIGNATURE AND DATE	RK	9/16	PREPARED UNDER THE SUPERVISION OF: DATE: 09/16/2021 <b>Lin Consulting, Inc.</b> TRAFFIC, CIVIL AND ELECTRICAL CONSULTING ENGINEERS 21660 COPLEY DRIVE, #270 DIAMOND BAR, CA 91765 (909) 396-8850		
△	SH	REV 055 - FIBER OPTIC CONDUIT ACROSS VAN BUREN BRIDGE	RK	2/15			

BORDER LAST REVISED 09/2017

RELATIVE BORDER SCALE IS IN INCHES

USERNAME => sghor  
DGN FILE => 180300buo010\_FO-R2.dgn

WO 00-0000

COUNTY FILE No.

DATE PLOTTED => 14-DEC-2022  
TIME PLOTTED => 20:34



December 13, 2021

County of Riverside  
Transportation Department  
ATTN: Joseph S. Smith, PE  
404 Camino del Rio South, Suite 700  
San Diego, CA 92108

RE: Project No. C8-0060 County of Riverside Transportation Department and  
Granite Construction Company for Jurupa Road / UPRR Grade Separation Project

**Subject: RFI 118 SUBMITTAL No. 084 Alternate Fiber Optic Splice Vault**

Mr. Smith,

Reference is made to Submittal No. 084 regarding the alternative fiber optic splice vault to be used on the above referenced project. Please see the attached email request from our subcontractor, Dynalectric regarding this work.

Glenn,

At this time, we propose that the bid items for all vault installations be deleted ( with the credit for these deletions to be given back to the county) and that vault installations ( with the alternate product that we have submitted upon ) be done under force account.

If the County requires a cost analysis breakdown, we will more than willing to accommodate their request.

Please advise.

**James Adkins**  
Intelligent Transportation Systems  
Dynalectric Los Angeles  
4462 Corporate Center Dr, | Los Alamitos, CA 90720  
**Office:** 714.828.7000 | **Cell:** 714.448.2108  
[jadkins@dyna-la.com](mailto:jadkins@dyna-la.com)

GRANITE CONSTRUCTION COMPANY

**RESPONSE:**

Alternate fiber optic splice vaults may be constructed at the following locations at T&M and per Submittal 084:

- Jurupa Rd/Connector Rd
- Connector Rd/Miller Driveway
- Van Buren Blvd/Connector Rd

All other locations are to be constructed per plan.

- Sal Orozco  
3/10/2022



COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

SHEET 1 OF 1 SHEETS

Contract Change Order No. 017

CONTRACT: Jurupa Road/Union Pacific Railroad
Grade Separation Project
In the City of Jurupa Valley

WORK ORDER NO. C8-0060
CALTRANS EA NO. N/A
LOCAL-FED AID NO. N/A
STATE-FED AID NO. SB132L 6054 (086)

TO: Granite Construction Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

This contract change order provides resolution to Bid Items #146, #146.F, and Notice of Potential Claim (NOPC) No. 2 "Traffic Signal System Removal Jurupa Van Buren" and Potential Claim Record (PCR) No. 12 "Electrical BI 146 & 146F" as agreed to at the Executive Partnering Meeting on October 4, 2023. The bid items shall be modified as indicated:

Bid Item #146 "SIGNAL AND LIGHTING SYSTEM (CONNECTOR ROAD AND VAN BUREN BLVD)"

- Delete all work associated with contract plan sheet, TTS-02, Temporary Traffic Signal Plan at Van Buren Boulevard and Connector Road (Stage 3) - refer to Attachment A.

Bid Item #146.F "MODIFY SIGNAL AND LIGHTING"

- The following components are included in this bid item:
- All temporary work and traffic signal modifications at the intersection of Van Buren Blvd/Jurupa Rd per the attached as-built plan Sheet 5, Traffic Signal Modification Plan at Van Buren Boulevard and Jurupa Road, dated February 3, 2003 - refer to Attachment B.
- Incorporate all temporary work at the intersection of Van Buren Blvd/Connector Rd per mark-ups on the attached plan sheet TTS-01, Temporary Traffic Signal Plan at Van Buren Boulevard and Connector Road (Stage 2) - refer to Attachment C. Make any necessary additional adjustments to this intersection as directed by the Engineer. The permanent traffic signal at this intersection shall reflect plan sheet TTS-01 in Attachment D.
- Include all work to establish and remove temporary power at the intersection of Van Buren Blvd/Connector Rd, which includes the placement of k-rail along northbound Van Buren Blvd, and installation of all temporary equipment and gear. All traffic signal gear and components shall be picked up, installed, and subsequently removed and returned to the County yard upon completion of the work, or as directed by the Engineer. This bid item shall also capture all work related to Change Order Request (COR) #014.
- Incorporate all necessary traffic signal modifications at the intersection of Van Buren Blvd/Rutile St as directed by the Engineer henceforth.

This change order resolves Notice of Potential Claim No. 2 "Traffic Signal System Removal Jurupa Van Buren" and Potential Claim Record (PCR) No. 12, "Electrical BI 146 & 146F," and shall relieve the County of any future potential claims regarding Bid Item #146 and Bid Item #146.F. The Contractor commits to waive their rights to pursue any future potential claims and agrees that one will not be submitted on behalf of their electrical subcontractor regarding these bid items.

Estimated Cost: Included in Lump Sum per Amendment No. 1

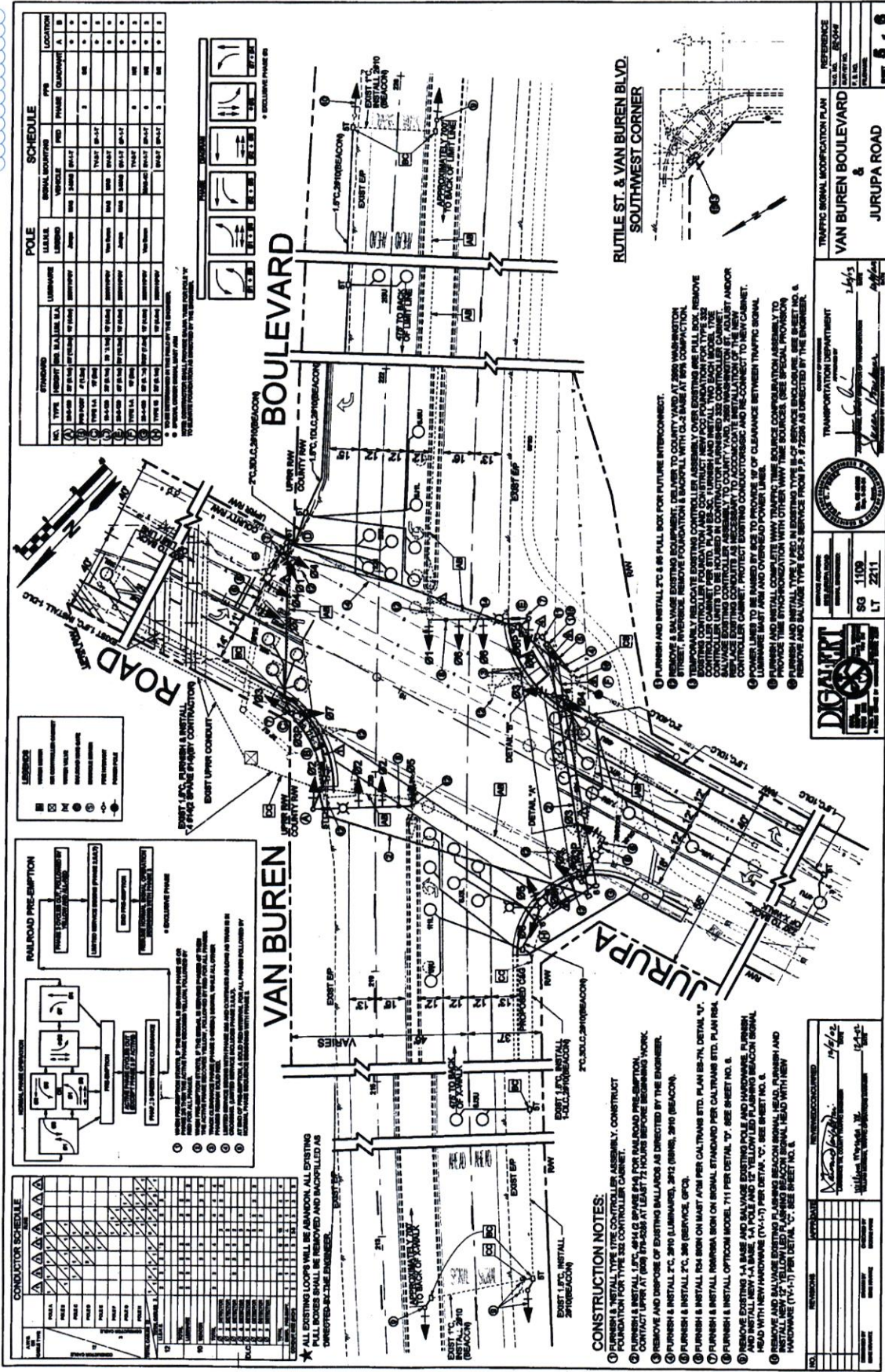
Participating: Yes: [X] No: [ ] N/A: [ ]

WE, the contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. By reason of this proposed change \*\* days adjustment of time will be allowed.

\*\* Included in Time Adjustment per Amendment No. 1



JURUPA ROAD  
UNION PACIFIC RAILROAD  
GRADE SEPARATION  
COR #017  
ATTACHMENT B  
SHEET 1 OF 1



SCHEDULE		POLE		SCHEDULE		LOCATION	
NO.	TYPE	HEIGHT	WIND	CLASS	VEHICLE	TYPE	DATE
1	WOOD	30.0	100	1	1	1	1
2	WOOD	30.0	100	1	1	1	1
3	WOOD	30.0	100	1	1	1	1
4	WOOD	30.0	100	1	1	1	1
5	WOOD	30.0	100	1	1	1	1
6	WOOD	30.0	100	1	1	1	1
7	WOOD	30.0	100	1	1	1	1
8	WOOD	30.0	100	1	1	1	1
9	WOOD	30.0	100	1	1	1	1
10	WOOD	30.0	100	1	1	1	1

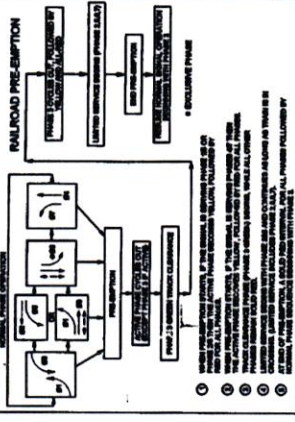


**BOULEVARD**

UPPER RAILWAY  
COUNTRY RAILWAY  
UPPER RAILWAY  
COUNTRY RAILWAY

**RUTILE ST. & VAN BUREN BLVD.  
SOUTHWEST CORNER**

- CONSTRUCTION NOTES:**
- REMOVE EXISTING LAMP AND SALVAGE EXISTING POLE AND HARDWARE. FURNISH AND INSTALL NEW YELLOW LED FLASHING BEACON SIGNAL HEAD WITH NEW HARDWARE (TV-13) PER DETAIL 'C'. SEE SHEET NO. 8.
  - REMOVE EXISTING LAMP AND SALVAGE EXISTING POLE AND HARDWARE. FURNISH AND INSTALL NEW YELLOW LED FLASHING BEACON SIGNAL HEAD WITH NEW HARDWARE (TV-13) PER DETAIL 'C'. SEE SHEET NO. 8.
  - REMOVE EXISTING LAMP AND SALVAGE EXISTING POLE AND HARDWARE. FURNISH AND INSTALL NEW YELLOW LED FLASHING BEACON SIGNAL HEAD WITH NEW HARDWARE (TV-13) PER DETAIL 'C'. SEE SHEET NO. 8.
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  - REMOVE EXISTING LAMP AND SALVAGE EXISTING POLE AND HARDWARE. FURNISH AND INSTALL NEW YELLOW LED FLASHING BEACON SIGNAL HEAD WITH NEW HARDWARE (TV-13) PER DETAIL 'C'. SEE SHEET NO. 8.
  - REMOVE EXISTING LAMP AND SALVAGE EXISTING POLE AND HARDWARE. FURNISH AND INSTALL NEW YELLOW LED FLASHING BEACON SIGNAL HEAD WITH NEW HARDWARE (TV-13) PER DETAIL 'C'. SEE SHEET NO. 8.
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  - REMOVE EXISTING LAMP AND SALVAGE EXISTING POLE AND HARDWARE. FURNISH AND INSTALL NEW YELLOW LED FLASHING BEACON SIGNAL HEAD WITH NEW HARDWARE (TV-13) PER DETAIL 'C'. SEE SHEET NO. 8.
  - REMOVE EXISTING LAMP AND SALVAGE EXISTING POLE AND HARDWARE. FURNISH AND INSTALL NEW YELLOW LED FLASHING BEACON SIGNAL HEAD WITH NEW HARDWARE (TV-13) PER DETAIL 'C'. SEE SHEET NO. 8.



CONDUCTOR SCHEDULE	
NO.	TYPE
1	WOOD
2	WOOD
3	WOOD
4	WOOD
5	WOOD
6	WOOD
7	WOOD
8	WOOD
9	WOOD
10	WOOD

PROJECT NO. 89 1108 LT 2211	REFERENCE <b>VAN BUREN BOULEVARD &amp; JURUPA ROAD</b> SHEET 8 OF 8
TRANSPORTATION DEPARTMENT 1465	920-Z

**POLE SCHEDULE**

NO.	TYPE	STANDARD HEIGHT	SIG. MA	LUM. MA	LUM. MA	SIGNAL MOUNTING LEGEND	VEHICLE	PREL.	DISTANCE	F	PHASE	LOCATION
1	Ø	81'-5"	100'	15'	15'	Ø	3-WAS	50'-2'-7 1/2"	-	Ø	Ø	A
2	Ø	26'-4"	100'	40'	15'	Ø	2-WAS	50'-2'-7 1/2"	-	Ø	Ø	B
3	Ø	24'-4"	100'	35'	15'	Ø	2-WAS	50'-11"	-	Ø	Ø	C
4	Ø	19'-5"	100'	15'	15'	Ø	2-WAS	50'-11"	-	Ø	Ø	D
5	Ø	19'-5"	100'	15'	15'	Ø	2-WAS	50'-2'-7 1/2"	-	Ø	Ø	E
6	Ø	19'-5"	100'	15'	15'	Ø	2-WAS	50'-2'-7 1/2"	-	Ø	Ø	F

**CONDUCTOR AND CONDUIT SCHEDULE**

ARG OR CABLE TYPE	ROLE OF CIRCUIT	NO. OF CABLES	NO. OF CONDUITS
12	115MS	2	2
10	LUMINAIRE	1	2
10	VIDEO CABLE	1	2
10	VIDEO DET	1	2
Ø1	Ø1 DETECTOR	2	2
Ø2	Ø2 DETECTOR	3	3
Ø3	Ø3 DETECTOR	3	3
Ø4	Ø4 DETECTOR	3	3
Ø5	Ø5 DETECTOR	3	3
Ø6	Ø6 DETECTOR	3	3
Ø7	Ø7 DETECTOR	3	3
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Ø99	Ø99 DETECTOR	3	3
Ø100	Ø100 DETECTOR	3	3

**PHASE DIAGRAM**



**CONSTRUCTION NOTES**

- FURNISH AND INSTALL 3621 ATC CABINET ON NEW FOUNDATION. CABINET SHALL HAVE TWO INPUT FILES, INTERNAL LED LIGHT, DOOR SWITCH, PULL-OUT DOCUMENT DRAWER, AND CITY SPECIFIED LOCKS. CABINET SHALL BE WIRED FOR RED MOBILITY CAPABILITY. CABINET SHALL BE EQUIPPED WITH: NEW SIDE MOUNT BBS CABINET WITH ALPHA 1100 FPM BBS MODEL NEW EDIT CMU-IP-212-HV IP CONFLICT MONITOR WITH AUXILIARY DISPLAY UNIT NEW CABINET INPUT METER PANEL CABINET EQUIPMENT WITH PULL OUT MONITOR NEW OPTICOM 764 EYE DISCRIMINATOR CARD NEW ETHERNET SWITCH NEW ETHERNET PORT ON UNIT FURNISH AND INSTALL 120/240 VOLT DUAL METER TYPE 111-OF SERVICE EQUIPMENT ENCLOSURE WITH TYPE V.P.C. - SEE CALTRANS STD. PLAN RSP ES-2F FOR INSTALLATION. ADDRESS: XXXX METER 1: 100 A, 240 V, 2P (MAIN BREAKER) TS-1 50 A, 120 V, 1P (SIGNAL BREAKER) LS-3 30 A, 240 V, 2P, CB (SAFETY LIGHTING) 15 A, 120 V, 1P, CB (115MS)
- FURNISH AND INSTALL 'XXY' OF 3" SCHEDULE 80 PVC CONDUIT TO EXISTING VAULT WITH PULL ROPE UNDER SEE REQUIREMENTS. EXAMINE LOCATION BY SEE. CONTACT SEE SERVICE PLANNER AT (909) 286-2207 PRIOR TO EXCAVATION.
- FURNISH AND INSTALL OPTICOM MODEL 721 EYP HEAD PER COUNTY STD. NO. 1202.
- FURNISH AND INSTALL SIGN ON MAST ARM PER CALTRANS STD. PLAN ES-7N, DETAIL 'U'.
- FURNISH AND INSTALL VIDEO CAMERA ON SIGNAL MAST ARM CALTRANS STD. PLAN ES-7R.
- INSTALL LED LIT INTERNALLY ILLUMINATED GALVANIZED STEEL CLAMP ON MAST ARM LOCATED ABOVE MAST ARM PER COUNTY OF RIVERSIDE STD. NO. 1200.
- FURNISH AND INSTALL 3" CABLE VAN TRACER WITH PULL ROPE AND BARE WIRE WITH PULL BOX AT 15' PER RIVERSIDE COUNTY SPECIFICATIONS. SEE 'XX-XX' FOR SPACING.
- FURNISH AND INSTALL 3" Ø12 (115MS) 3Ø10 (LUMINAIRE), 2Ø12 (115MS).
- FURNISH AND INSTALL 3" Ø12 (115MS) 3Ø10 (LUMINAIRE), 2Ø12 (115MS).
- FURNISH AND INSTALL 4" SCHEDULE 80 PVC CONDUIT TO EXISTING VAULT WITH PULL ROPE FOR FUTURE USE, PER RIVERSIDE COUNTY SPECIFICATIONS.
- CONFIGURE VIDEO DETECTION ZONE(S) AS SHOWN AND RE-CONFIGURE AS NECESSARY DURING VARIOUS STAGES OF CONSTRUCTION.
- FURNISH AND INSTALL SIGN ON PEDESTRIAN BARRICADE PER CALTRANS STD. PLAN ES-01, DETAIL 'C'.
- FURNISH AND INSTALL NEW 6" DIAMETER TYPE E LOOP DETECTOR PER CALTRANS FUSION SPLICE ONE (1) STRAND OF 12 SMFO TO THE APPROPRIATE STRANDS OF 48 STRAND SMFO CABLE.
- FURNISH AND INSTALL SPLICE ENCLOSURE.

**TEMPORARY TRAFFIC SIGNAL PLAN**

DETECTOR	PHASE	ASSEMBLY / CHANNEL	VEHICLE DETECTOR ASSIGNMENTS	VEHICLE DETECTOR ASSIGNMENTS
1	Ø1	Ø1	Ø1	Ø1
2	Ø2	Ø2	Ø2	Ø2
3	Ø3	Ø3	Ø3	Ø3
4	Ø4	Ø4	Ø4	Ø4
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**VEHICLE DETECTOR ASSIGNMENTS**

DETECTOR	PHASE	ASSEMBLY / CHANNEL	VEHICLE DETECTOR ASSIGNMENTS	VEHICLE DETECTOR ASSIGNMENTS
1	Ø1	Ø1	Ø1	Ø1
2	Ø2	Ø2	Ø2	Ø2
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**PHASE DIAGRAM**



**VEHICLE DETECTOR ASSIGNMENTS**

DETECTOR	PHASE	ASSEMBLY / CHANNEL	VEHICLE DETECTOR ASSIGNMENTS	VEHICLE DETECTOR ASSIGNMENTS
1	Ø1	Ø1	Ø1	Ø1
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**VEHICLE DETECTOR ASSIGNMENTS**

DETECTOR	PHASE	ASSEMBLY / CHANNEL	VEHICLE DETECTOR ASSIGNMENTS	VEHICLE DETECTOR ASSIGNMENTS
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**VEHICLE DETECTOR ASSIGNMENTS**

DETECTOR	PHASE	ASSEMBLY / CHANNEL	VEHICLE DETECTOR ASSIGNMENTS	VEHICLE DETECTOR ASSIGNMENTS
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**VEHICLE DETECTOR ASSIGNMENTS**

DETECTOR	PHASE	ASSEMBLY / CHANNEL	VEHICLE DETECTOR ASSIGNMENTS	VEHICLE DETECTOR ASSIGNMENTS
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**VEHICLE DETECTOR ASSIGNMENTS**

DETECTOR	PHASE	ASSEMBLY / CHANNEL	VEHICLE DETECTOR ASSIGNMENTS	VEHICLE DETECTOR ASSIGNMENTS
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13	Ø13	Ø13	Ø13	Ø13
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**VEHICLE DETECTOR ASSIGNMENTS**







COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT

SHEET 1 OF 1 SHEETS

Contract Change Order No. 020

CONTRACT: Jurupa Road/Union Pacific Railroad  
Grade Separation Project  
In the City of Jurupa Valley

WORK ORDER NO. C8-0060  
CALTRANS EA NO. N/A  
LOCAL-FED AID NO. N/A  
STATE-FED AID NO. SB132L 6054 (086)

TO: Granite Construction Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Extend the duration of Bid Item #167, "Excavation Support Systems, Shoring and Utility Support," for Stage 1 Van Buren Boulevard temporary shoring materials until project completion and acceptance of the Project as complete by the County of Riverside.

Estimated Cost: Included in Lump Sum per Amendment No. 1

Participating: Yes:  No:  N/A:

WE, the contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. By reason of this proposed change \*\* days adjustment of time will be allowed.

\*\* Included in Time Adjustment per Amendment No. 1



COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT

SHEET 1 OF 1 SHEETS

Contract Change Order No. 021

CONTRACT: Jurupa Road/Union Pacific Railroad  
Grade Separation Project  
In the City of Jurupa Valley

WORK ORDER NO. C8-0060  
CALTRANS EA NO. N/A  
LOCAL-FED AID NO. N/A  
STATE-FED AID NO. SB132L 6054 (086)

TO: Granite Construction Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Furnish and maintain the entire dewatering system for Stage 1 construction of the Jurupa Road Undercrossing (BR-2) from May 18, 2023, through April 15, 2024. All work shall be performed per the applicable sections of the contract documents.

This change order resolves Notice of Potential Claim No. 5, dated December 7, 2022.

Estimated Cost: Included in Lump Sum per Amendment No. 1

Participating: Yes:  No:  N/A:

WE, the contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. By reason of this proposed change \*\* days adjustment of time will be allowed.

\*\* Included in Time Adjustment per Amendment No. 1



COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT

SHEET 1 OF 1 SHEETS

Contract Change Order No. 022

CONTRACT: Jurupa Road/Union Pacific Railroad  
Grade Separation Project  
In the City of Jurupa Valley

WORK ORDER NO. C8-0060  
CALTRANS EA NO. N/A  
LOCAL-FED AID NO. N/A  
STATE-FED AID NO. SB132L 6054 (086)

TO: Granite Construction Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

As directed by the Engineer and in accordance with the applicable sections of the contract documents, construct the Bly Storm Channel per the attached plan sheets: Sheet 1 (Delta 1, dated 01/24), Sheet 2 (Delta 2, dated 10/24), Sheet 3 (Delta 2, dated 10/24), Sheet 4 (dated 9/2021), Sheet 5 (Delta 1, dated 01/24), Sheet 6 (Delta 1, dated 01/24), Sheet 7 (Delta 1, dated 01/24), Sheet 8 (Delta 2, dated 10/24), modified RCFC Standard Drawing CH326, modified RCFC Standard Drawing CH329, and modified post pocket detail from the 2018 Revised Caltrans Standard Plan B11-47 – refer to Attachment 'A'.

Estimated Cost: Included in Lump Sum per Amendment No. 1

Participating: Yes:  No:  N/A:

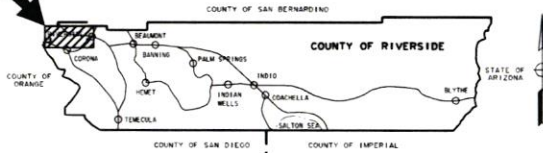
WE, the contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. By reason of this proposed change \*\* days adjustment of time will be allowed.

\*\* Included in Time Adjustment per Amendment No. 1

JURUPA ROAD  
UNION PACIFIC RAILROAD  
GRADE SEPARATION  
C/O #022  
ATTACHMENT 'A'  
SHEET 1 OF 11

# RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

PROJECT  
SITE



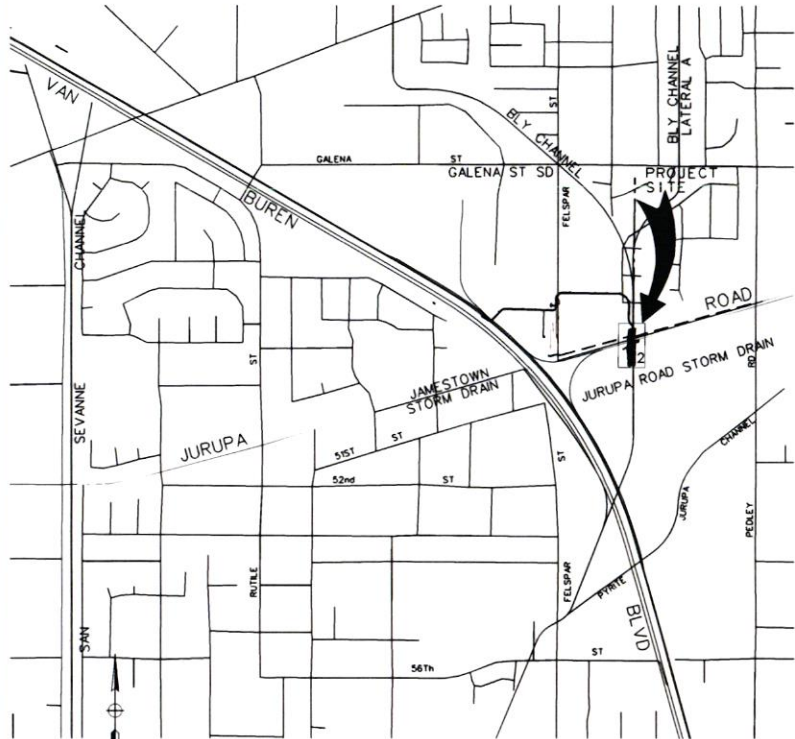
VICINITY MAP  
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## GENERAL NOTES

- 1 THE CONTRACTOR SHALL CONSTRUCT THE FLOOD CONTROL IMPROVEMENTS SHOWN ON THE DRAWINGS IN CONFORMANCE WITH THE REQUIREMENTS OF THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT'S M.O.U STANDARD SPECIFICATIONS DATED MARCH 2020, AND THE DISTRICT'S STANDARD DRAWINGS. FOR THE LATEST STANDARD DRAWINGS, PLEASE REFER TO THE "ENGINEERING TOOLS" PAGE FOUND ON "BUSINESS" SECTION OF THE DISTRICT'S WEBSITE.
- 2 CONTACT THE ENCROACHMENT PERMIT ENGINEER AT 951.955.1266 IF AN ENCROACHMENT PERMIT IS REQUIRED FROM THE DISTRICT. AFTER THE PERMIT IS ISSUED THE DISTRICT MUST BE NOTIFIED ONE (1) WEEK PRIOR TO CONSTRUCTION.
- 3 CONTACT CONSTRUCTION MANAGEMENT AT 951.955.1288 IF CONSTRUCTION INSPECTION WILL BE PERFORMED BY THE DISTRICT. THE DISTRICT MUST BE NOTIFIED TWENTY (20) DAYS PRIOR TO CONSTRUCTION.
- 4 ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED.
- 5 STATIONING FOR LATERALS AND CONNECTOR PIPES REFER TO THE CENTERLINE INTERSECTION STATIONS.
- 6 FORTY-EIGHT (48) HOURS BEFORE EXCAVATION, CALL UNDERGROUND SERVICE ALERT 1.800.227.2600.
- 7 ALL ELEVATIONS SHOWN ARE IN FEET AND DECIMALS THEREOF BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD 88).
- 8 ALL COORDINATES ARE SHOWN IN FEET AND DECIMALS THEREOF BASED ON THE NORTH AMERICAN DATUM (NAD 83), CALIFORNIA COORDINATE SYSTEM (CCS), ZONE 6 AND EPOCH.
- 9 ALL CROSS SECTIONS ARE TAKEN LOOKING DOWNSTREAM.
- 10 ELEVATIONS OF UTILITIES ARE APPROXIMATE UNLESS OTHERWISE NOTED.
- 11 UNLESS OTHERWISE SPECIFIED, MINIMUM STREET RECONSTRUCTION SHALL BE 4" TYPE "A" HOT MIX ASPHALT OVER 6" CLASS 2 AGGREGATE BASE OR AS SPECIFIED BY THE ENGINEER.
- 12 OPENINGS RESULTING FROM THE CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES OR SIMILAR STRUCTURES TO BE ABANDONED SHALL BE SEALED WITH 6" OF CLASS "B" CONCRETE.
- 13 PIPE CONNECTED TO MAINLINE PIPE SHALL CONFORM TO JUNCTION STRUCTURE No.4 (JS229) UNLESS OTHERWISE NOTED.
- 14 PIPE BEDDING SHALL CONFORM TO DISTRICT STANDARD DRAWING No. MB15.
- 15 BH-1 INDICATES SOIL BORING LOCATIONS BASED ON SOILS REPORT DATED 03/12/2021. LOCATIONS SHOWN ARE APPROXIMATE.
- 16 "V" IS THE DEPTH OF CATCH BASIN MEASURED FROM THE TOP OF CURB TO INVERT OF CONNECTOR PIPE.
- 17 CATCH BASIN SHALL BE LOCATED SO THAT LOCAL DEPRESSION SHALL BEGIN AT EXISTING CURB RETURN JOINT, UNLESS OTHERWISE SPECIFIED.
- 18 ALL CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED IN KIND AND AT THE SAME ELEVATION AND LOCATION AS THE EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED.
- 19 STANDARD DRAWINGS CALLED FOR ON THE PLAN AND PROFILE SHALL CONFORM TO DISTRICT STANDARD DRAWINGS UNLESS NOTED OTHERWISE.
- 20 THE CONTRACTOR IS REQUIRED TO CALL ALL UTILITY & RAILROAD AGENCIES REGARDING TEMPORARY SHORING AND SUPPORT REQUIREMENTS FOR THE VARIOUS UTILITY LINES SHOWN ON THESE PLANS.

## GENERAL NOTES (CONTINUED)

- 21 DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL SHOULD BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO ADJACENT PROPERTIES.
- 22 APPROVAL OF THESE PLANS BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER'S ENGINEER OF RESPONSIBILITY FOR THE ENGINEERING DESIGN. IF FIELD CHANGES ARE REQUIRED, IT WILL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER TO MAKE THE NECESSARY CORRECTIONS.
- 23 THE CONTRACTOR OR DEVELOPER SHALL SECURE ALL REQUIRED ENCROACHMENT AND/OR STATE AND FEDERAL REGULATORY PERMITS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 24 THE CONCRETE COATING ON THE INSIDE OF ALL REINFORCED CONCRETE PIPES MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2 INCHES OVER THE REINFORCING STEEL AND INCREASED TO PROVIDE A MINIMUM OF 3-1/2 INCHES OVER REINFORCING STEEL FOR BOX CULVERT WHEN DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'C=5000 PSIFOR VELOCITIES EXCEEDING 20 FEET PER SECOND AND F'C=6000 PSIFOR VELOCITIES EXCEEDING 30 FEET PER SECOND.
- 25 CONSTRUCTION JOINTS FOR CALTRANS STANDARD REINFORCED CONCRETE BOX SHALL BE PLACED ACCORDING TO DISTRICT STANDARD DRAWING No. BOX 401.



INDEX MAP  
NTS

## INDEX

## SHEET NO:

TITLE SHEET	1
PLAN & PROFILE	2
STRUCTURAL PLAN & DETAILS	3-8

## R.C.F.C. & W.C.D. STANDARD DRAWINGS

MB01	CHAIN LINK FENCE DETAILS
CH325	ROCK LINED CHANNEL
CH326	TRAPEZOIDAL CHANNEL STRUCTURAL DETAILS
CH329	TRANSITION STRUCTURAL DETAILS (TRAPEZOIDAL TO BOX)

## ABBREVIATIONS

RCFC	RIVERSIDE COUNTY FLOOD CONTROL
WCD	WATER CONSERVATION DISTRICT
B	BOTTOM WIDTH
BCW	BEGIN
ELEV	ELEVATION
INV	INVERT
RCB	REINFORCED CONCRETE BOX
TS	TRANSITION STRUCTURE
S	INVERT
SD	STORM DRAIN
SS	SIDE SLOPE
VAR	VARIES
W.S.	WATER SURFACE
WSEL	WATER SURFACE ELEVATION

SHEET No.

SHEET 560 OF 565

PROJECT NO.  
1-0-0090  
DRAWING NO.  
1-0746  
SHEET NO.  
1 OF 8

**HNTB**

8 HUTTON CENTRE DRIVE  
SUITE 900  
SANTA ANA, CA 92707  
(714) 460-1600  
WWW.HNTB.COM

DESIGNED BY: K. SAMENI  
DRAWN BY: L. MAI  
DATE DRAWN: JUNE, 2021  
PR NUMBER: 235444

Don't Dig...UNTil You Call U.S.A. Toll Free  
1-800-227-2600



BENCH MARK  
IF 627 FOUND ALUMINUM DISK STAMPED  
MMWSD USE 622 1922 SET ON  
TOP OF 7FT LONG HEADWALL  
70.5 FT W/O C.I. PEDELEY RD  
AND 63 FT S/O C.I. GALENA ST.  
EL. 746.24' PER NCS DATA SHEET

REVISIONS			
NO.	DESCRIPTION	APPROVED	DATE
1	UPRR APPROVED PLAN	KS	01/24

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	
RECOMMENDED FOR APPROVAL BY:	APPROVED BY:
DATE:	DATE:

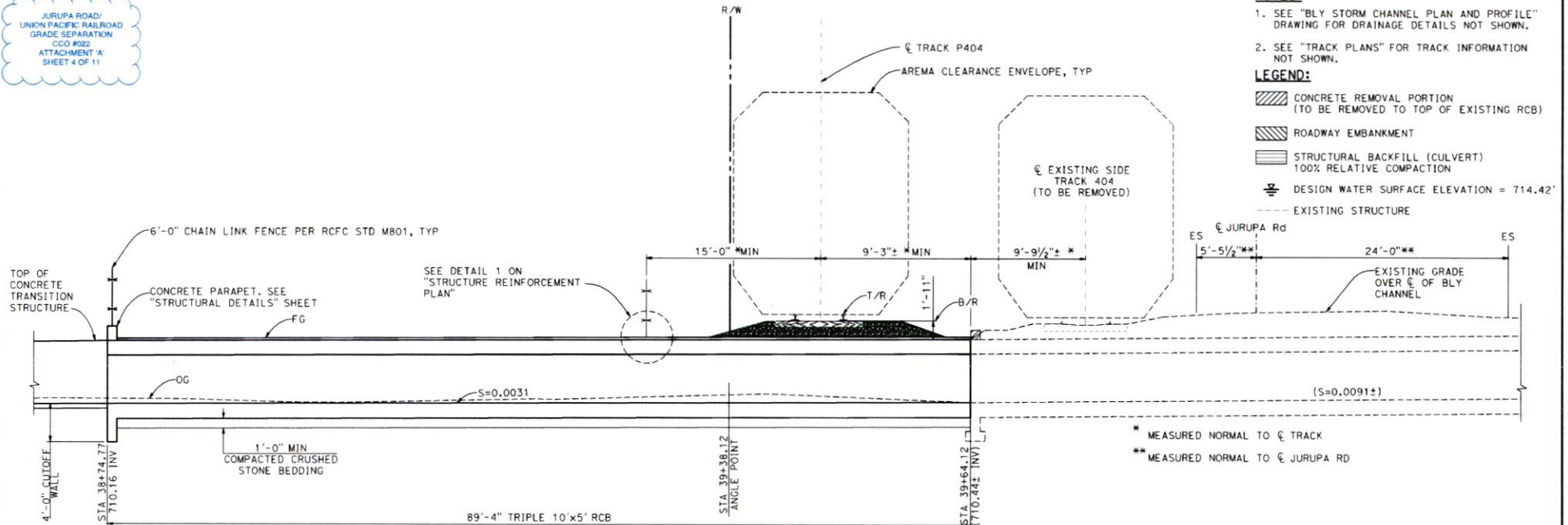
BLY STORM CHANNEL

TITLE SHEET



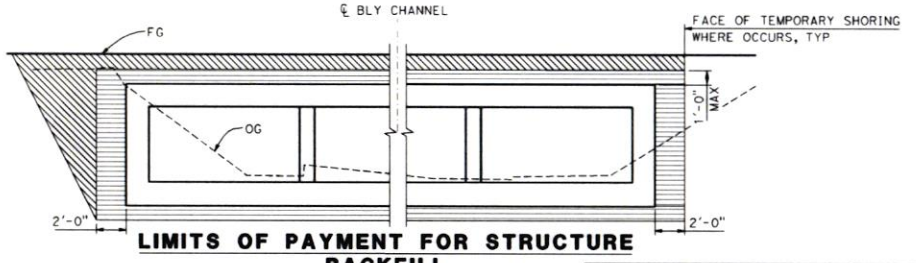
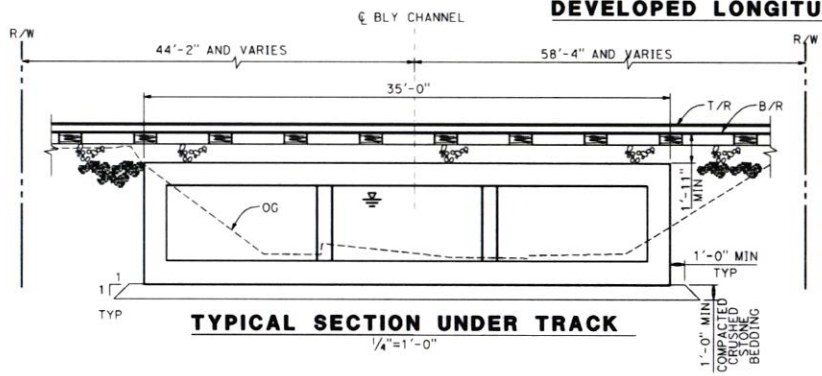


JURUPA ROAD/  
UNION PACIFIC RAILROAD  
GRADE SEPARATION  
CCO #022  
ATTACHMENT 'A'  
SHEET 4 OF 11



- NOTES:**
- SEE "BLY STORM CHANNEL PLAN AND PROFILE" DRAWING FOR DRAINAGE DETAILS NOT SHOWN.
  - SEE "TRACK PLANS" FOR TRACK INFORMATION NOT SHOWN.
- LEGEND:**
- CONCRETE REMOVAL PORTION (TO BE REMOVED TO TOP OF EXISTING RCB)
  - ROADWAY EMBANKMENT
  - STRUCTURAL BACKFILL (CULVERT) 100% RELATIVE COMPACTION
  - DESIGN WATER SURFACE ELEVATION = 714.42'
  - EXISTING STRUCTURE

**DEVELOPED LONGITUDINAL SECTION AT JURUPA ROAD**



<b>COUNTY OF RIVERSIDE</b> APPROVED BY: _____ DATE: _____		<b>CITY OF JURUPA VALLEY</b> APPROVED BY: _____ CITY ENGINEER DATE: _____		<b>CALL BEFORE YOU DIG</b> 800-4-A-SHIELD 1-800-4-A-SHIELD	<b>BENCH MARK:</b> UF 622 FOUND ALUMINUM DISK STAMPED "MWDSC UF 622 1922" SET ON TOP OF 7'7" LONG HEADWALL 70.5 FT W/O CL PEDLEY RD AND 63 FT S/O CL CALENA ST. CL 146.24' PER NGS DATA SHEET	<b>REVISIONS</b> NO. DESCRIPTION DATE	<b>HNTB</b> 400 NORTH GARDEN AVENUE SUITE 200, LOS ANGELES, CA 90012 (213) 617-1100 <b>DESIGNED BY: J. XU</b> <b>DRAWN BY: L. KINGSBURY</b> <b>DATE DRAWN: SEPTEMBER 2020</b> <b>PG NUMBER: 235444</b>	<b>RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT</b> RECOMMENDED FOR APPROVAL BY: _____ APPROVED BY: _____ DATE: _____	<b>JURUPA ROAD GRADE SEPARATION PROJECT</b> LOS ANGELES SUBDIVISION BRIDGE XXXLX CRESTMORE RD LEAD MP 0.22 LOCATION: CITY OF JURUPA VALLEY COUNTY OF RIVERSIDE STATE OF CALIFORNIA LATITUDE 33°59'52"N LONGITUDE 117°28'56"W	<b>SHEET No.</b> SHEET 563 of 565 <b>PROJECT NO.</b> I-0-00090 <b>DRAWING NO.</b> I-0746 <b>SHEET NO.</b> 4 of 8
-----------------------------------------------------------------	--	------------------------------------------------------------------------------------	--	------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------

PLOT DRIVER: MPL/DK/VS  
 Pen Color: #PENTBL3

**BOX CULVERT GENERAL NOTES**

**DESIGN SPECIFICATION AND GEOMETRY:**

1. THE RCJ CULVERT DESIGN SHALL MEET ALL APPLICABLE PORTIONS OF THE FOLLOWING GENERAL DESIGN SPECIFICATIONS AND IN ACCORDANCE WITH REQUIREMENTS OF THE 2018 AREMA MANUAL EXCEPT AS MODIFIED BELOW:
2. IN ADDITION TO AREMA'S REQUIREMENTS, SPECIAL REQUIREMENTS OF THE RAILROAD COMPANY SHALL BE FOLLOWED. UPRR GRADE SEPARATION GUIDE LINES FOR RAILROAD GRADE SEPARATION PROJECTS FOR TEMPORARY SHORING (OCTOBER 2004) EXCEPT AS MODIFIED BELOW.
3. FOR REQUIREMENTS THAT ARE NOT SPECIFICALLY COVERED IN THE RAILROADS DESIGN CRITERIA AND GUIDELINES, SECTION 23 OF SPECIAL TRANS MEMO TO THE UPRR CONTRACTOR SHALL BE REFERENCED. THE CURRENT EDITION OF AASHTO/CALTRANS BRIDGE DESIGN SPECIFICATIONS, THE GEOMETRY AND GENERAL ARRANGEMENT OF THE BOX ARE SHOWN ON THE PLANS.

**GOVERNING CRITERIA:**

1. 2018 AREMA MANUAL FOR RAILWAY ENGINEERING, CHAPTER 8, PART 16.
2. CONSTRUCTION SPECIFICATIONS WILL BE IN ACCORDANCE WITH AREMA CHAPTER 8, PART 16, ARTICLE 7 AND THE APPLICABLE CHAPTERS OF THE 2018 AREMA MANUAL SUPPLEMENTED WITH SPECIAL PROVISIONS AS APPLICABLE AND UPRR GUIDELINES FOR RAILROAD GRADE SEPARATION PROJECTS ("UPRR GUIDELINES"), DATED JAN. 5, 2016.

**DESIGN LOADS:**

1. DEAD LOAD INCLUDES WEIGHT OF THE COVER AND TRACKS SUPERIMPOSED ON THE BOX. MISCELLANEOUS METAL PLUS 1" MIN BALLAST UNDER TIE AND 30" MAX BALLAST TO TOP OF RAIL.
2. LIVE LOAD COOPER E-80 LIVE LOAD PLUS APPLICABLE IMPACT.
3. SEISMIC LOAD SEISMIC BEARING PRESSURE: AN INCREMENTAL INVERTED TRIANGLE SEISMIC EARTH PRESSURE = 36H PSF (AREMA SURVIVABILITY LIMITS)
4. SOIL GEOTECHNICAL REPORT BY LEIGHTON GEOTECHNICAL DESIGN REPORT (PGDR), JUNE 4, 2021. ALLOWABLE SOIL BEARING PRESSURE = 3 KSF

**CONCRETE:**

1. ALL CONCRETE MATERIAL, PLACEMENT AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CHAPTER 8 OF THE CURRENT EDITION OF AREMA AND THE FOLLOWING:
2. MINIMUM COMPRESSIVE STRENGTH 4,000 LB. PER SQUARE INCH AT 28 DAYS.
3. EXPOSED SURFACES SHALL BE FORMED IN A MANNER THAT WILL PRODUCE A SMOOTH AND UNIFORM APPEARANCE WITHOUT RUBBING OR PLASTERING. EXPOSED EDGES OF 90° OR LESS ARE TO BE CHAMFERED 3/4".
4. CONCRETE SHALL BE PROPORTIONED SUCH THAT THE WATER-CEMENTIOUS MATERIAL RATIO (BY WEIGHT) DOES NOT EXCEED THE VALUES IN AREMA TABLE 8-11-9.
5. CEMENT SHALL BE TYPE I, II OR III PORTLAND CEMENT PER ASTM C150.
6. COARSE AGGREGATE SHALL BE SIZE NO. 67.
7. ADMIXTURES, OTHER THAN AIR ENTRAINMENT, SHALL NOT BE USED WITHOUT APPROVAL BY THE RAILROAD COMPANY.
8. MEMBRANE CURING COMPOUND SHALL CONFORM TO ASTM C309 TYPE 2.
9. APPLY THOROC EPOXY ADHESIVE 2-4PL OR APPROVED ALTERNATE BEFORE PLACING NEW CONCRETE AGAINST HARDENED SURFACES.
10. CONTRACTOR SHALL ADDRESS ALL APPLICABLE REQUIREMENTS OUTLINED IN SECTIONS 6.2 OF THE "UPRR/BNFS GUIDELINES FOR RAILROAD GRADE SEPARATION PROJECTS".

**REINFORCING STEEL:**

1. REINFORCING STEEL SHALL BE FURNISHED, NEW BILLET BARS PER CURRENT ASTM A615 SPECIFICATIONS AND MEET GRADE 60 REQUIREMENTS.
2. REINFORCING STEEL REQUIRING FIELD WELDING OR BENDING SHALL CONFORM TO ASTM A706 SPECIFICATIONS, GRADE 60.
3. FABRICATION OF REINFORCING STEEL SHALL BE PER CHAPTER 7 OF THE CRSI MANUAL OF STANDARD PRACTICE. DIMENSIONS OF BENDING DETAILS SHALL BE OUT TO OUT OF BARS.
4. REINFORCING STEEL IS TO BE BLOCKED TO PROPER LOCATION AND SECURELY WIRE TIED AGAINST DISPLACEMENT. TACK WELDING OF REINFORCING IS PROHIBITED. MINIMUM CONCRETE COVER NOT OTHERWISE NOTED SHALL MEET CURRENT AREMA REQUIREMENTS.
5. CONTRACTOR SHALL ADDRESS ALL APPLICABLE REQUIREMENTS OUTLINED IN SECTIONS 6.2 OF THE "UPRR/BNFS GUIDELINES FOR RAILROAD GRADE SEPARATION PROJECTS".

**RAILING:**

1. DESIGN AND WORKMANSHIP OF RAILINGS SHALL BE PER 2018 AREMA MANUAL, CHAPTER 15, SECTION 8.5.
2. CLEAN THREADS OF BOLTS AND NUTS AFTER GALVANIZATION SO THAT NUTS TURN FREELY ON BOLTS. OVER SIZED NUTS ARE NOT ALLOWED.

**SHOP DRAWINGS:**

1. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SHOP DRAWINGS/SUBMITTALS TO THE ENGINEER AND UPRR FOR APPROVAL IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND SPECIFIC PROVISIONS.
2. SHOP DRAWINGS (DESIGNED AND SIGNED BY A CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER):
3. ALL CONSTRUCTION TEMPORARY SUPPORTS.
4. SHORING FOR EXCAVATION.
5. AS REQUIRED BY THE ENGINEER AT NO ADDITIONAL COST TO THE COUNTY.
6. REINFORCING STEEL.

**SUBMITTALS:**

1. CONCRETE MIX DESIGNS.
2. CONCRETE TEST RESULTS.
3. CONCRETE CURING COMPOUND.
4. MAGNESIUM PHOSPHATE CONCRETE SPECIFICATIONS.
5. METHOD OF CURING CONCRETE ELEMENTS.
6. FORMWORK.
7. STEEL WELD CERTIFICATION.
8. AS REQUIRED BY THE ENGINEER AT NO ADDITIONAL COST TO THE COUNTY.

**EXISTING UTILITIES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN THE WORK AREA OF THE STRUCTURE BEFORE PROCEEDING WITH THE WORK AND PROVIDING PROTECTION FOR THE VARIOUS UTILITIES AFFECTED.

**EXCAVATION AND SOIL COMPACTION:**

1. BACKFILL SHALL COMPLY WITH THE REQUIREMENTS OF AREMA CHAPTER 8, PART 16, ARTICLE 16.2.3.
2. WHEN BACKFILLING AT STRUCTURE, THE CONTRACTOR SHALL BE REQUIRED TO ATTAIN TOP OF MAXIMUM DENSITY BY MODIFIED PROCTOR TEST (ASTM D 1557) PER UPRR GENERAL CONDITIONS AND SPECIFICATIONS, SECTION 31.23.26, PART 3.02C. ADDITIONALLY, COMPACTION OUTSIDE OF THE 20' ZONE MUST MEET THE REQUIREMENTS OF PART 3.02B OF THE GENERAL CONDITIONS AND SPECIFICATIONS.

**SITE CONDITIONS:**

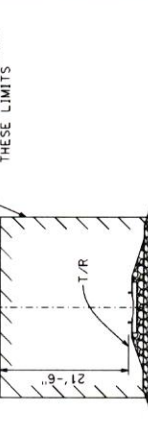
1. THE CONTRACTOR SHALL VERIFY IN ADVANCE ALL PERTINENT DIMENSIONS AND ELEVATIONS THAT MIGHT DIRECTLY AFFECT FABRICATION OR CONSTRUCTION OF THE WORK. NO PREPARATION OF SHOP DRAWINGS FOR FABRICATION OF MEMBERS AND CONNECTIONS SHALL BE MADE UNTIL ALL DIMENSIONS AND ELEVATIONS ARE CONFIRMED BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND ERECTION OF ALL FALSEWORK AND SHORING AND THE DEVELOPMENT OF THE STAGING PLAN. STAGING PLAN, FALSEWORK AND SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER WHO SHALL SIGN AND SEAL HIS OR HER PLANS AND SPECIFICATIONS. DESIGN SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.

**MISCELLANEOUS NOTES**

1. THE EXISTING TRACK IS TO REMAIN IN SERVICE DURING CONSTRUCTION.
2. CONTACT THE UNION PACIFIC "CALL BEFORE YOU DIG" NUMBER 90 DAYS (NOT LESS THAN 60 DAYS) PRIOR TO PROPOSED CONSTRUCTION START DATE. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE UPRR/BNFS LOCATIONS HAVE BEEN COMPLETED. THE CVBD NUMBER IS: 1-800-336-9193.
3. ANY REQUIRED CONSTRUCTION SUBMITTALS SHALL OBTAIN THE APPROVAL OF BOTH THE ENGINEER AND UPRR PRIOR TO ORDERING MATERIAL OR STARTING CONSTRUCTION.
4. DIRECT CHANNEL FLOW AS REQUIRED TO PERFORM WORK.

**INDEX TO PLANS**

- 3 STRUCTURE PLAN
- 4 STRUCTURE ELEVATION AND GENERAL SECTION
- 5 STRUCTURE GENERAL NOTES NO.1
- 6 STRUCTURE GENERAL NOTES NO.2
- 7 STRUCTURAL REINFORCEMENT PLAN
- 8 STRUCTURAL REINFORCEMENT DETAILS



**MINIMUM CONSTRUCTION CLEARANCE ENVELOPE**  
(NORMAL TO RAILROAD)

**ABBREVIATIONS:**

- B/R BOTTOM OF RAIL
- CONST JT CONSTRUCTION JOINT
- REIN REINFORCEMENT
- STA STATION
- STD STANDARD
- T/R TOP OF RAIL



**JURUPA ROAD GRADE SEPARATION PROJECT**  
 PROJECT NO. 1-I-0-00090  
 DRAWING NO. I-0746  
 SHEET NO. 5 OF 8

CONTRACTOR: BLY STORM CHANNEL STRUCTURAL GENERAL NOTES NO.1

LOCATION: JURUPA VALLEY, CALIFORNIA  
 CITY OF JURUPA VALLEY, CALIFORNIA  
 COUNTY OF RIVERSIDE, CALIFORNIA  
 PROJECT LOCATION: 17.2535°N LATITUDE, 117.2535°W LONGITUDE

APPROVED BY:	CITY ENGINEER
DATE:	SEPTEMBER 2021
APPROVED BY:	REGISTERED PROFESSIONAL ENGINEER
DATE:	SEPTEMBER 2021

APPROVED BY:	CITY ENGINEER
DATE:	SEPTEMBER 2021
APPROVED BY:	REGISTERED PROFESSIONAL ENGINEER
DATE:	SEPTEMBER 2021

APPROVED BY:	CITY ENGINEER
DATE:	SEPTEMBER 2021
APPROVED BY:	REGISTERED PROFESSIONAL ENGINEER
DATE:	SEPTEMBER 2021

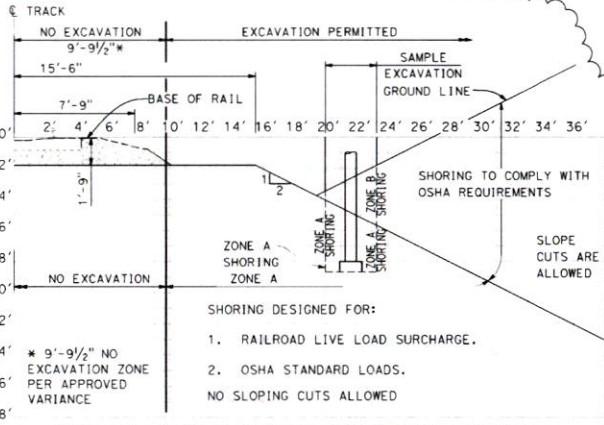
APPROVED BY:	CITY ENGINEER
DATE:	SEPTEMBER 2021
APPROVED BY:	REGISTERED PROFESSIONAL ENGINEER
DATE:	SEPTEMBER 2021

APPROVED BY:	CITY ENGINEER
DATE:	SEPTEMBER 2021
APPROVED BY:	REGISTERED PROFESSIONAL ENGINEER
DATE:	SEPTEMBER 2021

APPROVED BY:	CITY ENGINEER
DATE:	SEPTEMBER 2021
APPROVED BY:	REGISTERED PROFESSIONAL ENGINEER
DATE:	SEPTEMBER 2021

APPROVED BY:	CITY ENGINEER
DATE:	SEPTEMBER 2021
APPROVED BY:	REGISTERED PROFESSIONAL ENGINEER
DATE:	SEPTEMBER 2021





**TRACK PROTECTION SHORING ZONES**  
SCALE: NO SCALE

**GENERAL NOTES:**

1. ALL DIMENSIONS ARE MEASURED PERPENDICULAR TO C OF TRACK.
2. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE RAILROAD DETAILED PLANS INDICATING THE NATURE AND EXTENT OF THE TRACK PROTECTION SHORING PROPOSED. THE CONTRACTOR SHALL INSTALL THE TEMPORARY SHORING SYSTEM PER THE APPROVED PLANS. DESIGN OF THE TEMPORARY SHORING SYSTEM PER THE APPROVED PLANS. DESIGN OF THE TEMPORARY SHORING SYSTEM TO COMPLY WITH GUIDELINES FOR TEMPORARY SHORING.
3. FOR EXCAVATION WHICH ENCROACH INTO ZONE A, SHORING PLANS SHALL BE ACCOMPANIED BY DESIGN CALCULATIONS, PLANS AND CALCULATIONS MUST BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.

**TEMPORARY SHORING NOTES:**

1. ALL TEMPORARY SHORING SHALL BE DESIGNED PER LATEST UPRR GUIDELINES AND PROJECT SPECIFICATIONS AND SHOULD BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
2. CONTRACTOR TO COORDINATE TEMPORARY SHORING IF APPLICABLE TO RETAINING WALLS TO RELATED REQUIREMENTS OF JURUPA ROAD UNDERPASS.
3. AFTER CONSTRUCTION, CONTRACTOR SHALL REMOVE ALL TEMPORARY SHORING INCLUDING TIEBACK ANCHORS IF TIEBACK SYSTEM IS USED FOR SHORING. CONTRACTOR SHALL COMPLY WITH UPRR GENERAL SHORING ZONE REQUIREMENTS AS DETAILED ON "TRACK PROTECTION SHORING ZONES" DETAIL OF THIS SHEET.

**UPRR MINIMUM CRITERIA FOR TRACK, SHORING & EXISTING STRUCTURE MONITORING:**

1. MONITORING PROGRAM  
TRACK, SHORING AND EXISTING STRUCTURES SHALL BE MONITORED FOR SETTLEMENT AND/OR DISPLACEMENT DURING AN ADJACENT EXCAVATION, PILE DRIVING OR OTHER ACTIVITY AS DICTATED BY THE RAILROAD. A DETAILED MONITORING PLAN SHALL BE SUBMITTED FOR REVIEW BY THE RAILROAD PRIOR TO THE START OF ANY WORK. THE MONITORING PLAN SHALL COMPLY WITH SPECIFICATIONS.
2. CONTINGENCY PLANS  
CONTRACTOR SHALL ADDRESS ALL APPLICABLE REQUIREMENTS OUTLINED IN SPECIFICATIONS.

JURUPA ROAD/  
UNION PACIFIC RAILROAD  
GRADE SEPARATION  
CCD #022  
ATTACHMENT 'A'  
SHEET 6 OF 11



<b>JURUPA ROAD GRADE SEPARATION PROJECT</b>		<b>SHEET No.</b>
LOS ANGELES SUBDIVISION CRESTMORE INO LEAD	BRIDGE XXXLX MP 0.22	<b>SHEET 565 of 565</b>
LOCATION: CITY OF JURUPA VALLEY COUNTY OF RIVERSIDE STATE OF CALIFORNIA		
LATITUDE 33°59'52"N LONGITUDE 117°28'56"W		

<b>COUNTY OF RIVERSIDE</b>	<b>CITY OF JURUPA VALLEY</b>
APPROVED BY:	APPROVED BY:
DATE:	DATE:

**CALL BEFORE YOU DIG**  
ORLINE TICKET OPERATION  
1-800-551-8833  
Don't dig until you see this.

**BENCH MARK**  
UF 622  
FOUND ALUMINUM DISK STAMPED  
"MWDSC UF 622 1922" SET ON  
TOP OF 7FT LONG HEADWALL  
70.5 FT W/O CL PEDDGY RD  
AND 63 FT S/O CL CALENA ST.  
CL 146.24' PER NCS DATA SHEET

REVISIONS	
NO.	DESCRIPTION
1	UPRR APPROVAL PLAN

**HNTB**  
DESIGNED BY: J. XU  
DRAWN BY: L. KINGSBURY  
DATE: 09/11/2009  
PG NUMBER: 235444

<b>RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT</b>
RECOMMENDED FOR APPROVAL BY:
APPROVED BY:
DATE:

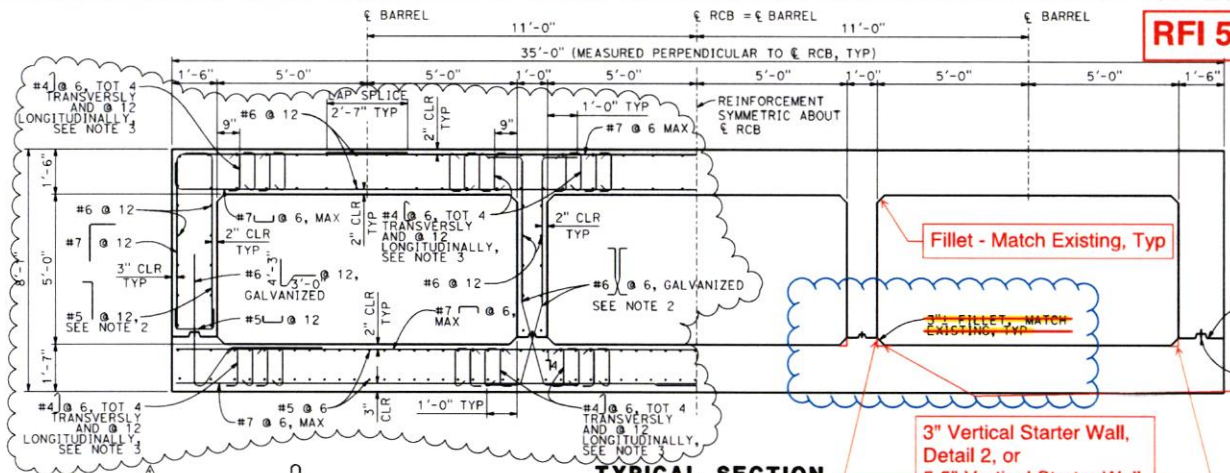
**BLY STORM CHANNEL  
STRUCTURAL  
GENERAL NOTES NO.2**

<b>PROJECT NO.</b> 1-0-00090
<b>DRAWING NO.</b> 1-0746
<b>SHEET NO.</b> 6 of 8

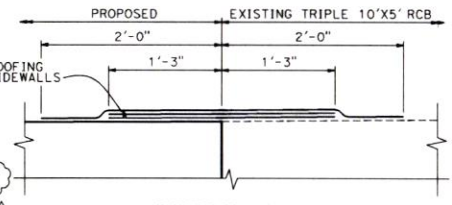
PLOT DRIVER: HPLOTDRWS\*  
Pen Tables: HPENBL5\*

**RFI 534**

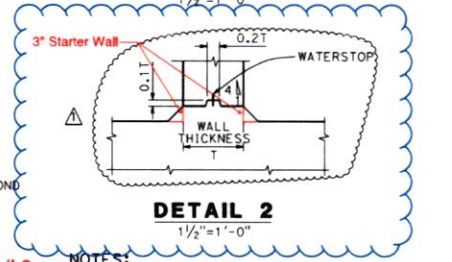
**WATERPROOFING NOTE:**  
 CONSTRUCTION JOINTS BETWEEN THE EXISTING AND PROPOSED BLY CHANNEL ROOF AND SIDEWALLS SHALL BE PROTECTED BY A 3-PLY JOINT WATERPROOFING SYSTEM. THE WATERPROOF FABRIC SHALL CONSIST OF 2- 30" AND 1-48" WIDE WOVEN COTTON FABRIC (ASTM D173) SATURATED WITH ASPHALT BITUMEN (ASTM D449). BONDING OF (3) FABRIC LAYERS TO THE CONSTRUCTION JOINTS SHALL CONSIST OF PLACING EACH LAYER BETWEEN (2) MOPPING OF ASPHALT (ASTM D449 TYPE 2), WITH THE FIRST 30" WIDE PIECE OF FABRIC BEING LAID INTO A MOPPING OF ASPHALT AND THE FINAL 48" PIECE BEING COVERED WITH A MOPPING OF ASPHALT.



**TYPICAL SECTION**  
1/2"=1'-0"



**DETAIL 1**  
1/2"=1'-0"

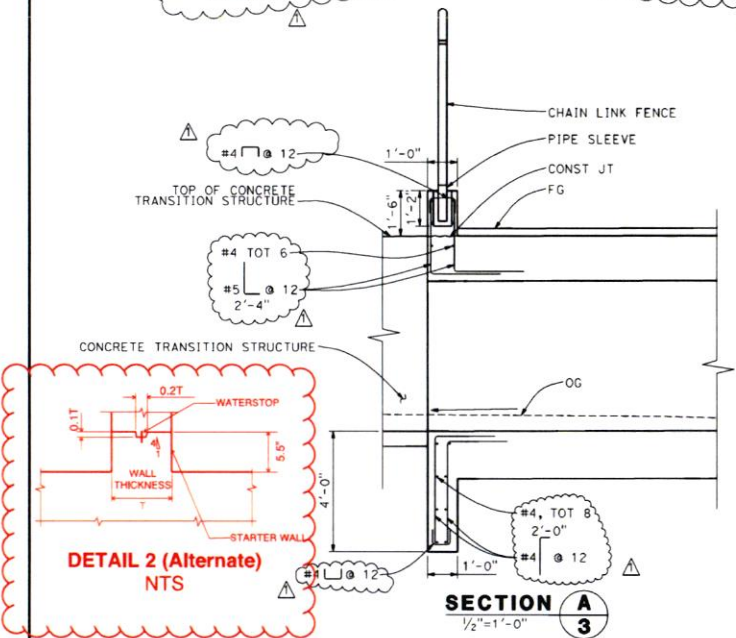


**DETAIL 2**  
1/2"=1'-0"

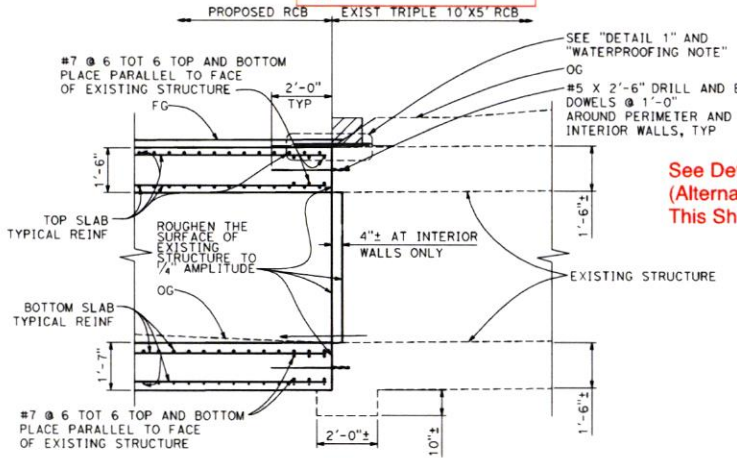
- NOTES:**
1. SEE "BLY STORM CHANNEL PLAN AND PROFILE" FOR DRAINAGE DETAILS NOT SHOWN.
  2. THE 90 DEGREE HOOK EXTENSION (LENGTH) FOR THE REBAR SHALL BE MINIMUM 12 \* BAR DIAMETER.
  3. #4 STIRRUPS SHALL BE ALTERNATELY SPACED AT 12" SPACING LONGITUDINALLY ALONG THE E OF THE RCB.
  4. SEE "STRUCTURE REINFORCEMENT PLAN" FOR UTILITY OPENING DETAILS.

See Detail 2 (Alternate) This Sheet

**LEGEND:**  
 CONCRETE REMOVAL PORTION (TO BE REMOVED TO TOP OF EXISTING RCB)



**SECTION A**  
1/2"=1'-0"  
3



**SECTION B**  
1/2"=1'-0"  
3

JURUPA ROAD  
 UNION PACIFIC RAILROAD  
 GRADE SEPARATION  
 CCO #022  
 ATTACHMENT 'A'  
 SHEET 7 OF 11



**JURUPA ROAD  
 GRADE SEPARATION PROJECT**  
 LOS ANGELES SUBDIVISION BRIDGE XXXLXX  
 CRESTMORE AND LEAD MP 0.22  
 LOCATION:  
 CITY OF JURUPA VALLEY  
 COUNTY OF RIVERSIDE  
 STATE OF CALIFORNIA  
 LATITUDE 33°59'52"N  
 LONGITUDE 117°28'56"W

**SHEET No.**  
 PROJECT NO. I-0-00090  
 DRAWING NO. I-0746  
 SHEET NO. 7 OF 8

COUNTY OF RIVERSIDE	CITY OF JURUPA VALLEY
APPROVED BY:	APPROVED BY:
CITY ENGINEER	CITY ENGINEER
DATE:	DATE:

**CALL BEFORE YOU DIG**  
 ONLINE TICKET OPERATION  
 1-800-368-8888  
 BENCH MARK  
 UF 622  
 FOUND ALLUMINUM DISK STAMPED  
 "MWDSC UF 622 952" SET ON  
 TOP OF 7FT LONG HEADWALL  
 70.5 FT W/O CL PEDLEY RD  
 AND 63 FT S/O CL GALENA ST.  
 SL 146.24' PER NCS DATA SHEET

NO.	DESCRIPTION	APPR.	DATE
1	UPPER APPROVAL PLAN		8/21/21
<p><b>HNTB</b>          400 WEST GARDEN BOULEVARD          SUITE 200, LOS ANGELES, CA 90007          (213) 621-1000</p> <p>DESIGNED BY: J. XU          CHECKED BY: L. KINGSBURY          DATE DRAWN: SEPTEMBER 2020          PG NUMBER: 239-444</p>			

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	APPROVED BY:
RECOMMENDED FOR APPROVAL BY:	DATE:

BLY STORM CHANNEL STRUCTURAL DETAILS	PROJECT NO. I-0-00090
DRAWING NO. I-0746	SHEET NO. 7 OF 8

PLOT DRIVER: BPLTD0W54  
 PLOT TABLE: BPRINTBLS38



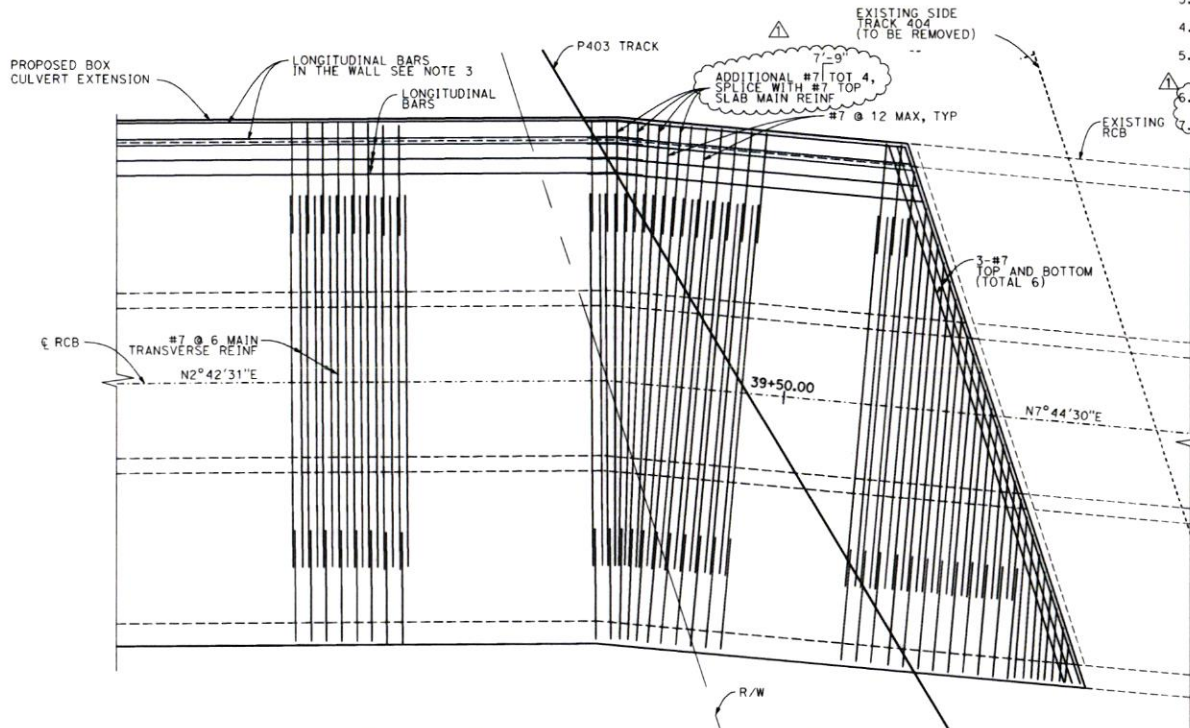
**FIELD MEMO #22.3**  
Pending CCO

**FIELD MEMO #22.2**  
Pending CCO

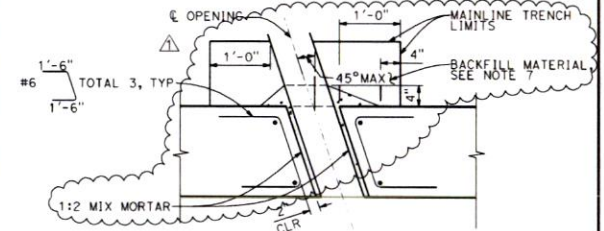
**NOTES:**

1. ALL REINFORCEMENT SHOWN ARE IN APPROXIMATE LOCATION.
2. NOT ALL REINFORCEMENT ARE SHOWN FOR CLARITY.
3. REINFORCING SHALL CONFORM TO DETAILS SHOWN ON "STRUCTURAL DETAILS" SHEET.
4. ALL SPLICED BARS SHALL BE LAPPED A MINIMUM OF 80 \* BAR DIAMETER.
5. ADJACENT TO EACH SIDE OF THE OPENING, PLACE ADDITIONAL BARS EQUIVALENT TO HALF THE INTERRUPTED MAIN REINFORCEMENT, BUNDLE AS REQUIRED.

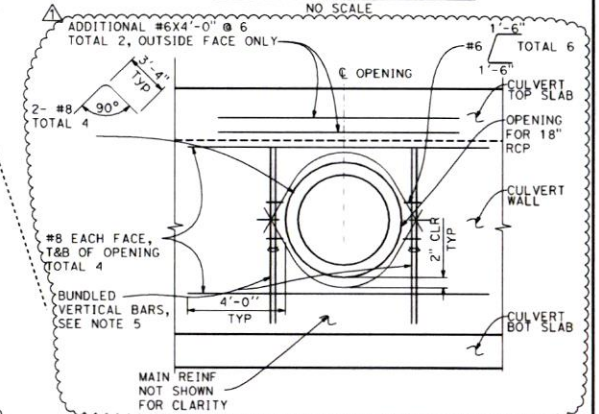
FOR INFORMATION NOT SHOWN, REFER TO RCFD STD PLAN 05223 JS228



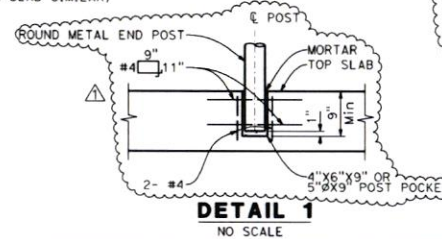
**REINFORCEMENT PLAN FOR TOP AND BOTTOM SLABS**  
1/4"=1'-0"  
(REINFORCEMENT LAYOUT IN TOP SLAB SHOWN, BOTTOM SLAB SIMILAR)



**PART PLAN-SECTION**



**CULVERT WALL UTILITY OPENING**  
NO SCALE



**DETAIL 1**  
NO SCALE

JURUPA ROAD/  
UNION PACIFIC RAILROAD  
GRADE SEPARATION  
CCO #622  
ATTACHMENT 'A'  
SHEET 8 OF 11



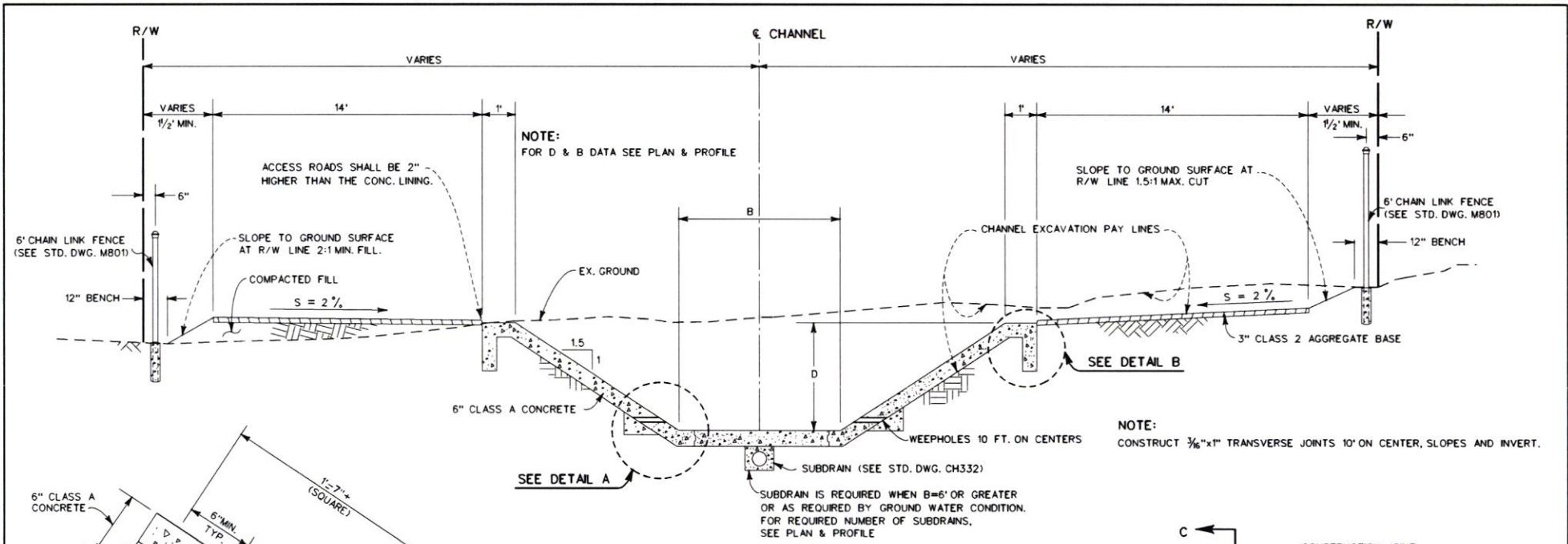
<b>JURUPA ROAD GRADE SEPARATION PROJECT</b>		<b>SHEET No.</b>
LOS ANGELES SUBDIVISION BRIDGE XXXXX CRESTMORE IND LEAD MFL 022		
LOCATION: CITY OF JURUPA VALLEY COUNTY OF RIVERSIDE STATE OF CALIFORNIA		DATE: 05/25/2021
LATITUDE 33°59'52"N LONGITUDE 117°28'56"W		PROJECT NO. 1-0-00090
<b>BLY STORM CHANNEL STRUCTURE REINFORCEMENT PLAN</b>		DRAWING NO. 1-0746
		SHEET NO. 8 OF 8

COUNTY OF RIVERSIDE	CITY OF JURUPA VALLEY
APPROVED BY:	APPROVED BY:
CITY ENGINEER	CITY ENGINEER
DATE:	DATE:

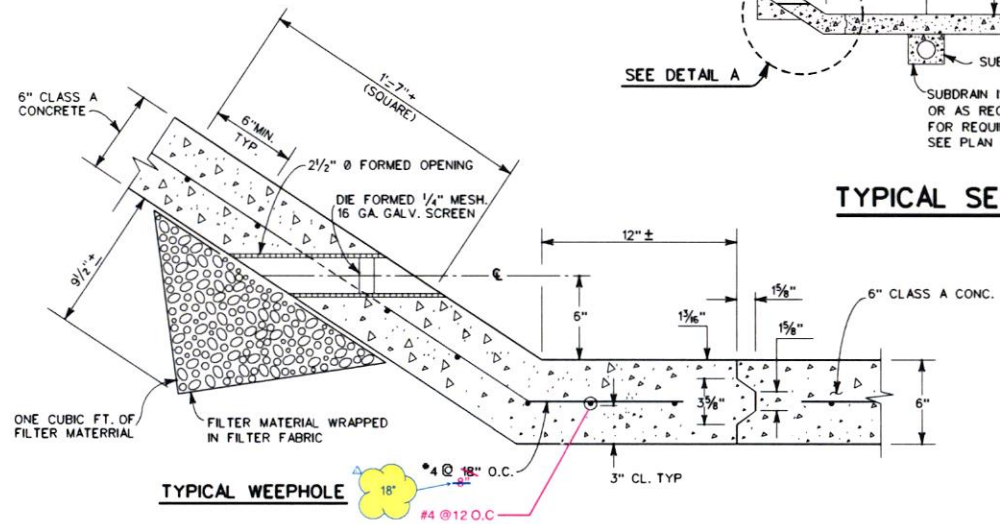
<b>CALL BEFORE YOU DIG</b> ORANGE TICKET OPERATIONS 1-800-451-4622	<b>BENCH MARK</b> LF 622 FOUND ALUMINUM DISK STAMPED "WINDSC LF 622 892" SET ON TOP OF 17.1' LONG HEADWALL TOLS FT W/O CL. REDLEY RD AND 63 FT S/O CL. GALENA ST. CL. 146.24' PER NGS DATA SHEET
--------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>REVISIONS</b>		<b>HNTB</b>	<b>RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT</b>
NO.	DESCRIPTION	APP. DATE	RECOMMENDED FOR APPROVAL BY: APPROVED BY:
1	UPDR APPROVAL PLAN	MD 01/24	
2	AS QUOTED BY COUNTY	CM 10/20/21	
		DESIGNED BY: J. XU	
		DRAWN BY: L. KINGSBURY	
		DATE SUBMITTED: SEPTEMBER 2021	
		PROJECT NUMBER: 235444	

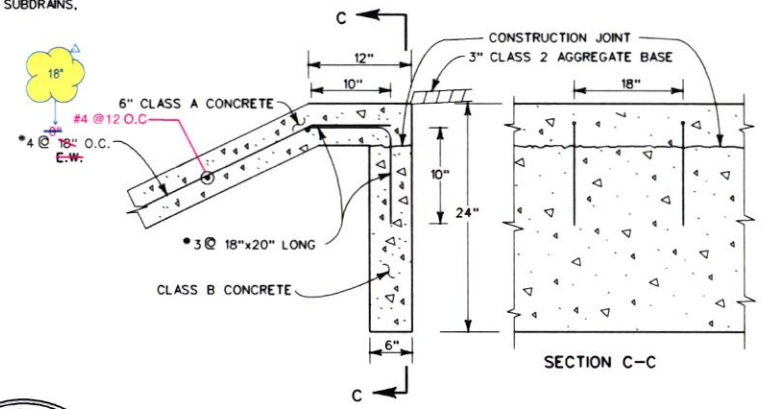
PLOT DRAWN: MFLTDVSKA  
PLOT TODAY: 8/12/2021 5:38



**TYPICAL SECTION**



**TYPICAL LONGITUDINAL CONSTRUCTION JOINT DETAIL "A"**



JURUPA ROAD/  
UNION PACIFIC RAILROAD  
GRADE SEPARATION  
CCO #022  
ATTACHMENT 'A'  
SHEET 9 OF 11

Blue markup are provided by Drainage Group.  
Pink markup are provided by Structural Group.

FIELD MEMO #22.3  
Pending CCO



REVERDE COUNTY FLOOD CONTROL  
AND  
WATER CONSERVATION DISTRICT

APPROVED BY: *[Signature]*  
CHIEF ENGINEER

DATE: APR. 21, 2000 R.C.E. NO. 32336

TRAPEZOIDAL CHANNEL  
STRUCTURAL DETAILS

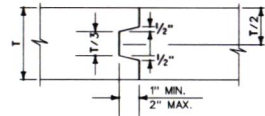
STANDARD DRAWING NUMBER CH326

DATA	DETAIL		SCHEDULE	
STATION TO STATION	"L3" STA 38+74.77 TO 38+54.77	"L2" STA 38+54.77 TO 38+34.77	"L1" STA 38+34.77 TO 38+13.77	
X	SLOPE VARIES FROM VERTICAL TO 1/2H:1V		SLOPE VARIES FROM 1/2H:1V TO 1H:1V	
Y	SLOPE VARIES FROM 1/2H:1V TO 1H:1V		SLOPE VARIES FROM 1H:1V TO 1 1/2H:1V	
HEIGHT	6.50'	6.35'	6.35'	6.19'
WALLS T <sub>1</sub>	8"		6"	6"
BOTTOM SLAB T <sub>2</sub>	8"		6"	6"
A BARS	4@8		4@8*	4@8*
HORIZ. LENGTH				
SLOPE LENGTH	4@8		4@8*	4@8*
B BARS				
HORIZ. LENGTH				
SLOPE LENGTH				
C BARS	4@12		N/A	N/A
SLOPE LENGTH				
D BARS	N/A		N/A	N/A
HORIZ. LENGTH				
CONCRETE C.Y./L.F.				
STEEL LBS./L.F.				

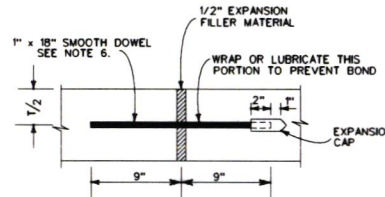
\* FOR PLACEMENT OF THE REBAR AND CLEAR COVER, SEE MARKUPS ON STANDARD DRAWING NUMBER CH326.

SPLICES			
BAR	LENGTH	SEC.	REMARKS

**DESIGN DATA**  
 LIVE LOAD = 2FT EQUIVALENT SURCHARGE  
 SOIL DENSITY = 120 PCF  
 ALLOWABLE STRESSES: 3,000 PSI  
 $f_c = 4,000$  PSI  
 $f_c = N/A$   
 $f_y = 60,000$  PSI  
 $f_s = N/A$



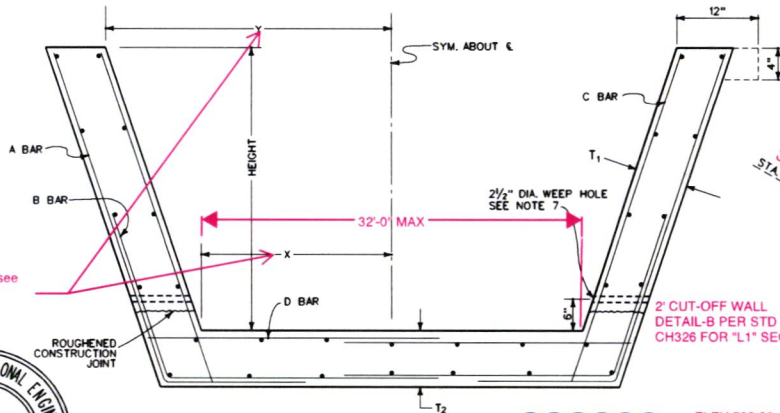
TRANSVERSE CONSTRUCTION JOINT  
DETAIL A



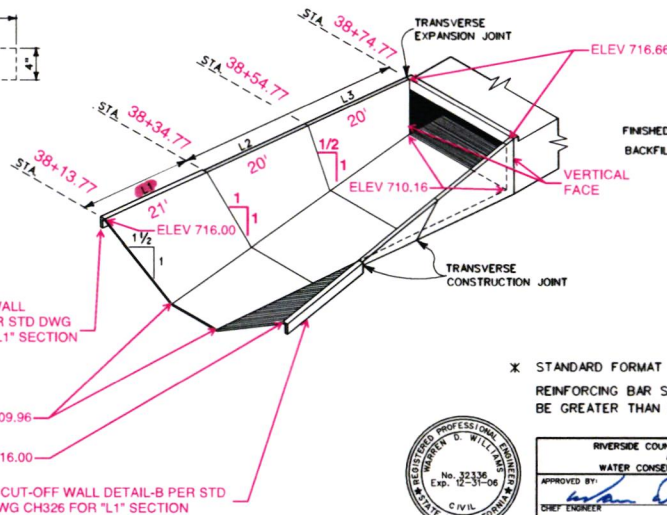
TRANSVERSE EXPANSION JOINT  
DETAIL B

**NOTES**

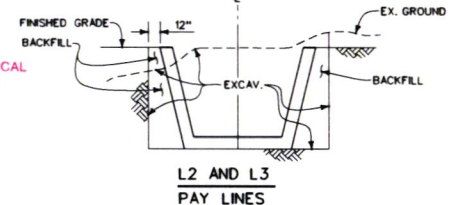
- STRUCTURAL CONCRETE SHALL BE CLASS "A".
- ALL LONGITUDINAL BARS SHALL BE #4 @ 12 INCHES. PLACE BARS IN BOTTOM SLAB SYMMETRICALLY ABOUT CENTERLINE. PLACE BARS IN WALLS STARTING AT TOP WITH 2 INCHES CLEAR COVER.
- CLEAR COVER FOR STEEL SHALL BE 2 INCHES EACH FACE FOR WALLS AND 3 INCHES EACH FACE FOR BOTTOM SLAB.
- STEEL IS DIMENSIONED TO BACK OF BAR BEND.
- FOR CONSTRUCTION ON CURVES, STRAIGHT TRANSVERSE BARS IN THE SLAB SHALL BE ALIGNED RADIALY WITH SPACING MEASURED AT WALLS. FOR L-BARS IN WALLS, SPACING SHALL BE MEASURED BETWEEN VERTICAL LEGS OF BARS.
- ALL TRANSVERSE CONSTRUCTION JOINTS SHALL BE IN A VERTICAL PLANE NORMAL TO THE CENTERLINE. CONTINUOUS KEYWAYS SHALL BE CONSTRUCTED AS SHOWN IN DETAIL A. A COMPLETE CURTAIN OF TRANSVERSE STEEL SHALL BE PLACED 3 INCHES FROM EACH FACE OF THE JOINTS AND LONGITUDINAL STEEL WILL NOT BE CONTINUOUS THROUGH THE JOINTS. AN EXPANSION JOINT SHALL BE CONSTRUCTED BETWEEN THE REINFORCED CONCRETE TRANSITION AND REINFORCED CONCRETE BOX SECTIONS AS SHOWN DETAIL B. DOWELS SHALL BE PLACED AT 18 INCH SPACING CENTERED IN THE MIDDLE OF THE BOTTOM SLAB AND THE TOP THIRD OF SIDE WALLS. A MINIMUM OF 3 DOWELS PER SLAB AND WALLS SHALL BE PLACED.
- WEEPHOLES SHALL BE FORMED IN BOTH WALLS PER STD. CH326 AT A SPACING OF 10 FEET.
- ALL QUANTITIES SHOWN ARE APPROXIMATE.
- ALL SPLICES ARE SUBJECT TO APPROVAL BY THE ENGINEER.
- SECTION L1 PAY LIMIT PER STANDARD CH326.
- THE LENGTH OF SECTIONS L1, L2 AND L3 ARE NOT NECESSARILY EQUAL. THE TOP OF TRANSITION SHALL BE STRAIGHT ALONG ITS ENTIRE LENGTH.



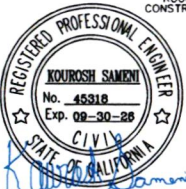
TYPICAL SECTION  
NTS



FIELD MEMO #22.3  
Pending CCO



\* STANDARD FORMAT TO BE USED AS FULL SIZE DRAWING  
 REINFORCING BAR SPACING FOR STRUCTURAL WALL SECTIONS SHALL NOT BE GREATER THAN 6" E.W. FOR AIR PLACED CONCRETE CONSTRUCTION.



JURUPA ROAD/  
UNION PACIFIC RAILROAD  
GRADE SEPARATION  
CCO #022  
ATTACHMENT 'A'  
SHEET 10 OF 11



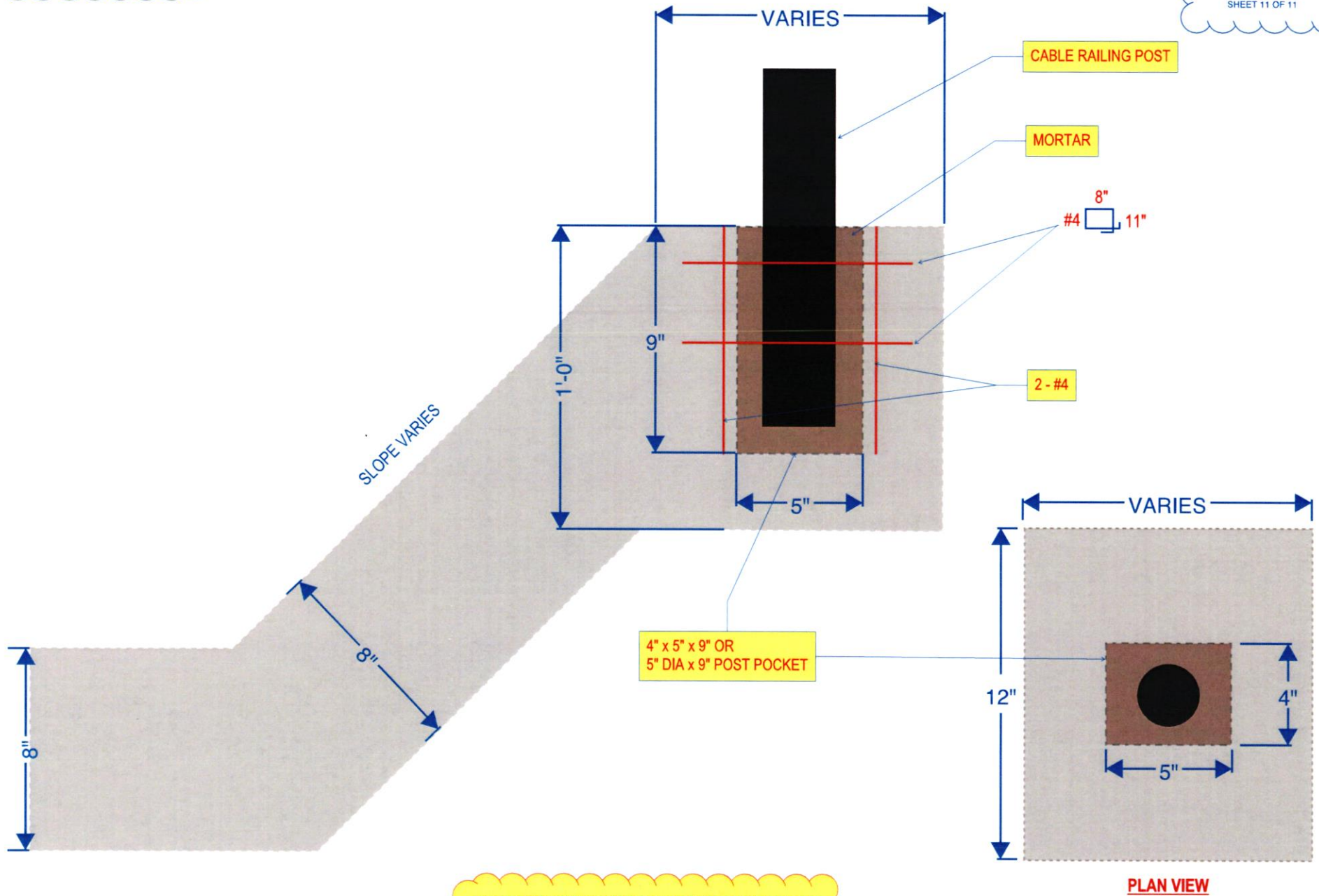
RIVERSIDE COUNTY FLOOD CONTROL  
AND  
WATER CONSERVATION DISTRICT  
APPROVED BY: [Signature]  
CHIEF ENGINEER  
DATE: JAN. 10, 2005  
R.C.E. NO. 32338

TRANSITION  
STRUCTURAL DETAILS

STANDARD DRAWING NUMBER CH329

**FIELD MEMO #22.3**  
**Pending CCO**

JURUPA ROAD/  
UNION PACIFIC RAILROAD  
GRADE SEPARATION  
CCO #022  
ATTACHMENT 'A'  
SHEET 11 OF 11



**MODIFIED CALTRANS STANDARD PLAN B11-47**

FEDERAL PROVISIONS  
ATTACHMENT

Since additional funding has been allocated through use of federal American Rescue Plan Act (ARPA; (Title VI of the Social Security Act Section 602 et seq.) funds, the COUNTY will administer and distribute those funds in accordance with ARPA. ARPA requires that payments from the Coronavirus Fiscal Recovery Fund be used to respond to the public health emergency or its negative economic impacts, to respond to workers performing essential work during the COVID-19 public health emergency by providing premium pay, provide government services to the extent the reduction of revenue due to COVID-19 public health emergency, and to make necessary investments in water, sewer or broadband infrastructure. It is effective beginning May 17, 2021 and ends on December 31, 2026.

Subrecipient acknowledges and agrees that this Agreement is subject to the federal requirements, including the federal provisions provided below:

1. **NON-DISCRIMINATION.** Subrecipient shall not be discriminate in the provision of services, allocation of benefits, accommodation in facilities, or employment of personnel on the basis of ethnic group identification, race, religious creed, color, national origin, ancestry, physical handicap, medical condition, marital status or sex in the performance of this Agreement; and, to the extent they shall be found to be applicable hereto, shall comply with the provisions of the California Fair Employment and Housing Act (Gov. Code 12900 et. seq), the Federal Civil Rights Act of 1964 (P.L. 88-352), the Americans with Disabilities Act of 1990 (42 U.S.C. S1210 et seq.) and all other applicable laws or regulations.

2. **EQUAL EMPLOYMENT OPPORTUNITY/ FAIR EMPLOYMENT PRACTICES/ FEDERAL PROVISIONS.** During the performance of this Agreement, the Subrecipient shall not deny benefits to any person on the basis of religion, color, ethnic group identification, sex, age, physical or mental disability, nor shall they discriminate unlawfully against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical handicap, mental disability, medical condition, marital status, age, or sex. Subrecipient shall ensure that the evaluation and treatment of employees and applicants for employment are free of such discrimination.

- A. Subrecipient shall comply with the provisions of the Fair Employment and Housing Act (Government Code, Section 12900 et seq.), the regulations promulgated thereunder (California Code of Regulations, Title 2, Section 11000 et seq.), the provisions of Executive Order 11246 of Sept. 23, 1965 and of the rules, regulations, and relevant orders of the Secretary of Labor, the provisions of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (Government Code, Sections 11135-11139.8), and of the rules, regulations or standards adopted by the County to implement such article.
- B. The Subrecipient shall comply with the provisions of the Copeland "Anti-Kickback" Act, 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this Agreement.

3. **CLEAN AIR ACT.** The Subrecipient agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. Section 7401 etseq. The Subrecipient agrees to report each violation to the County and understands and agrees that the County will, in turn, report each violation as required to assure notification to the California Governor's Office of Emergency Services, Federal Emergency Management Agency (FEMA), and the appropriate Environmental Protection Agency Regional Office. The Subrecipient agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

4. **FEDERAL WATER POLLUTION CONTROL ACT**  
The Subrecipient agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. Sections 1251 et seq.

FEDERAL PROVISIONS  
ATTACHMENT

The Subrecipient agrees to report each violation to the County and understands and agrees that the County will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency (FEMA), and the appropriate Environmental Protection Agency Regional Office.

The Subrecipient agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

5. DEBARMENT AND SUSPENSION CLAUSE

This Agreement is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such the Subrecipient is required to verify that none of the Subrecipient, its principals (defined at 2 C.F.R. § 180.995), or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).

The Subrecipient must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into. This certification is a material representation of fact relied upon by the County. If it is later determined that the Subrecipient did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the County, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

6. BYRD ANTI- LOBBYING AMENDMENT, 31 U.S.C. § 1352 (AS AMENDED)

Subrecipients who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the County.

APPENDIX A, 44 C.F.R. PART 18- CERTIFICATION REGARDING LOBBYING

The undersigned [Subrecipient] certifies, to the best of his or her knowledge, that:

A. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

B. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

C. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this



FEDERAL PROVISIONS  
ATTACHMENT

transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Subrecipient certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Subrecipient understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

SUBRECIPIENT

By \_\_\_\_\_  
Date \_\_\_\_\_

7. PROCUREMENT OF RECOVERED MATERIALS

In the performance of this Agreement, the Subrecipient shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired

- A. Competitively within a timeframe providing for compliance with the contract performance schedule;
- B. Meeting contract performance requirements; or
- C. At a reasonable price.

Information about this requirement, along with the list of EPA-designated items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>

The Subrecipient also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act.

8. ACCESS TO RECORDS

The following access to records requirements apply to this Agreement:

- A. The Subrecipient agrees to provide the County, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Subrecipient which are directly pertinent to this Agreement for the purposes of making audits, examinations, excerpts, and transcriptions.
- B. The Subrecipient agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.
- C. The Subrecipient agrees to provide the FEMA Administrator or his or her authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.
- D. In compliance with the Disaster Recovery Act of 2018, the County and the Subrecipient acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States.

9. DEPARTMENT OF HOMELAND SECURITY SEAL, LOGO, FLAGS

The Subrecipient shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval.

10. COMPLIANCE WITH FEDERAL LAW, REGULATIONS, AND EXECUTIVE ORDERS

This is an acknowledgement that FEMA financial assistance will be used to fund all or a portion of the contract. The Subrecipient will comply with all applicable Federal law, regulations, executive orders, FEMA policies, procedures, and directives.

11. NO OBLIGATION BY FEDERAL GOVERNMENT

The Federal Government is not a party to this Agreement and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

FEDERAL PROVISIONS  
ATTACHMENT

12. PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS OR RELATED ACTS  
The Subrecipient acknowledges that 31 U.S.C. Chapter 38 (Administrative Remedies for False Claims and Statements) applies to the Subrecipient's actions pertaining to this Agreement.

13. FEDERAL PREVAILING WAGE  
DAVIS-BACON ACT COMPLIANCE (applicable to construction contracts in excess of \$2,000 awarded by grantees and subgrantees when required by Federal grant program legislation)

To the extent required by any Federal grant programs applicable to expected funding or reimbursement expenses incurred in connection with the services provided under this Agreement, Subrecipient agrees to comply with the Davis-Bacon Act (40 U.S.C. §§ 3141-3144 and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5) as set forth below.

A. The Subrecipient shall be bound to the provisions of the Davis-Bacon Act, and agrees to be bound by all the provisions of Labor Code section 1771 regarding prevailing wages. All labor on this project shall be paid neither less than the greater of the minimum wage rates established by the U.S. Secretary of Labor (Federal Wage Rates), or by the State of California Director of Department of Industrial Relations (State Wage Rates). Current DIR requirements may be found at <http://www.dir.ca.gov/lcp.asp>. Additionally, wages are required to be paid not less than once a week.

B. The general prevailing wage rates may be accessed at the Department of Labor Home Page at [www.wdol.gov](http://www.wdol.gov). Under the Davis Bacon heading, click on "Selecting DBA WDs." In the drop down menu for State, select, "California." In the drop down menu for County, select "Riverside." In the drop down menu for Construction Type, make the appropriate selection. Then, click Search.

The Federal minimum wage rates for this project are predetermined by the United States Secretary of Labor. If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the general prevailing wage rates determined by the Director of the California DIR for similar classifications of labor, the Subrecipient and subcontractors shall pay not less than the higher wage rate. The County will not accept lower State wage rates not specifically included in the Federal minimum wage determinations. This includes "helper" (or other classifications based on hours of experience) or any other classification not appearing in the Federal wage determinations. Where Federal wage determinations do not contain the State wage rate determination otherwise available for use by the Subrecipient and subcontractors, the Subrecipient and subcontractors shall pay not less than the Federal minimum wage rate which most closely approximates the duties of the employees in question.

14. CONTRACT WORK HOURS AND SAFETY STANDARDS (applicable to all contracts in excess of \$100,000 that involve the employment of mechanics or laborers, but not to purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence)

A. Compliance: Subrecipient agrees that it shall comply with Sections 3702 and 3704 of the Contract Work Hours and Safety Standards Act (40 U.S.C. §§ 3701-3708) as supplemented by Department of Labor regulations (29 CFR Part 5), which are incorporated herein.

B. Overtime: No contractor or subcontractor contracting for any part of the work under this Agreement which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

C. Violation; liability for unpaid wages; liquidated damages: In the event of any violation of the provisions of paragraph B of this section, the Subrecipient and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such Subrecipient and subcontractor shall be liable to the United States for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or

FEDERAL PROVISIONS  
ATTACHMENT

mechanic employed in violation of the provisions of paragraph B, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by paragraph B.

D. Withholding for unpaid wages and liquidated damages: Subrecipient shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set for in paragraph C of this section.

E. Subcontracts: The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs A through D of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs A through D of this section.

15. RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT— Contracts or agreements for the performance of experimental, developmental, or research work shall provide for the rights of the Federal Government and the recipient in any resulting invention in accordance with 37 CFR part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by HUD.

16. RIGHTS TO DATA AND COPYRIGHTS – Subrecipients and consultants agree to comply with all applicable provisions pertaining to the use of data and copyrights pursuant to 48 CFR Part 27.4, Federal Acquisition Regulations (FAR).

17. PROHIBITION ON CONTRACTING FOR COVERED TELECOMMUNICATIONS EQUIPMENT OR SERVICES

A. Definitions. As used in this clause, the terms backhaul; covered foreign country; covered telecommunications equipment or services; interconnection arrangements; roaming; substantial or essential component; and telecommunications equipment or services have the meaning as defined in FEMA Policy, #405-143-1 Prohibitions on Expending FEMA Award Funds for Covered Telecommunications Equipment or Services As used in this clause—

B. Prohibitions.

(1) Section 889(b) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019, Pub. L. No. 115-232, and 2 C.F.R. § 200.216 prohibit the head of an executive agency on or after Aug.13, 2020, from obligating or expending grant, cooperative agreement, loan, or loan guarantee funds on certain telecommunications products or from certain entities for national security reasons.

(2) Unless an exception in paragraph (c) of this clause applies, the contractor and its subcontractors may not use grant, cooperative agreement, loan, or loan guarantee funds from the Federal Emergency Management Agency to:

(i) Procure or obtain any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology of any system;

(ii) Enter into, extend, or renew a contract to procure or obtain any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology of any system;

(iii) Enter into, extend, or renew contracts with entities that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system; or (iv) Provide, as part of its performance

FEDERAL PROVISIONS  
ATTACHMENT

of this contract, subcontract, or other contractual instrument, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system.

C. Exceptions.

(1) This clause does not prohibit contractors from providing—

- a. A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or
- b. Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(2) By necessary implication and regulation, the prohibitions also do not apply to:

- a. Covered telecommunications equipment or services that:
  - i. Are not used as a substantial or essential component of any system; and
  - ii. Are not used as critical technology of any system.
- b. Other telecommunications equipment or services that are not considered covered telecommunications equipment or services.

D. Reporting requirement.

(1) In the event the contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the contractor is notified of such by a subcontractor at any tier or by any other source, the contractor shall report the information in paragraph (d)(2) of this clause to the recipient or subrecipient, unless elsewhere in this contract are established procedures for reporting the information.

(2) The Subrecipient shall report the following information pursuant to paragraph (d)(1) of this clause:

(i) Within one business day from the date of such identification or notification: The contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: Any further available information about mitigation actions undertaken or recommended. In addition, the contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services. Page 10

E. Subcontracts. The Subrecipient shall insert the substance of this clause, including this paragraph (e), in all subcontracts and other contractual instruments.

## 18. REPORTING OF MATTERS RELATED TO RECIPIENT INTEGRITY AND PERFORMANCE

### A. General Reporting Requirement

If the total value of your currently active grants, cooperative agreements, and procurement contracts from all Federal awarding agencies exceeds \$10,000,000 for any period of time during the period of performance of this Federal award, then you as the recipient during that period of time must maintain the currency of information reported to the System for Award Management (SAM) that is made available in the designated integrity and performance system (currently the Federal Awardee Performance and Integrity Information System (FAPIS)) about civil, criminal, or administrative proceedings described in paragraph 2 of this award term and condition. This is a statutory requirement under section 872 of [Public Law 110-417](#), as amended ([41 U.S.C. 2313](#)). As required by section 3010 of [Public Law 111-212](#), all information posted in

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the designated integrity and performance system on or after April 15, 2011, except past performance reviews required for Federal procurement contracts, will be publicly available.

**B. Proceedings About Which You Must Report**

Submit the information required about each proceeding that:

a. Is in connection with the award or performance of a grant, cooperative agreement, or procurement contract from the Federal Government;

b. Reached its final disposition during the most recent five-year period; and

c. Is one of the following:

(1) A criminal proceeding that resulted in a conviction, as defined in paragraph 5 of this award term and condition;

(2) A civil proceeding that resulted in a finding of fault and liability and payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,000 or more;

(3) An administrative proceeding, as defined in paragraph 5. of this award term and condition, that resulted in a finding of fault and liability and your payment of either a monetary fine or penalty of \$5,000 or more or reimbursement, restitution, or damages in excess of \$100,000; or

(4) Any other criminal, civil, or administrative proceeding if:

(i) It could have led to an outcome described in paragraph 2.c.(1), (2), or (3) of this award term and condition;

(ii) It had a different disposition arrived at by consent or compromise with an acknowledgment of fault on your part; and

(iii) The requirement in this award term and condition to disclose information about the proceeding does not conflict with applicable laws and regulations.

**C. Reporting Procedures**

Enter in the SAM Entity Management area the information that SAM requires about each proceeding described in paragraph 2 of this award term and condition. You do not need to submit the information a second time under assistance awards that you received if you already provided the information through SAM because you were required to do so under Federal procurement contracts that you were awarded.

**D. Reporting Frequency**

During any period of time when you are subject to the requirement in paragraph 1 of this award term and condition, you must report proceedings information through SAM for the most recent five year period, either to report new information about any proceeding(s) that you have not reported previously or affirm that there is no new information to report. Recipients that have Federal contract, grant, and cooperative agreement awards with a cumulative total value greater than \$10,000,000 must disclose semiannually any information about the criminal, civil, and administrative proceedings.

**E. Definitions**

For purposes of this award term and condition:

a. Administrative proceeding means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (*e.g.*, Securities and Exchange Commission Administrative proceedings, Civilian Board of Contract Appeals proceedings, and Armed Services Board of Contract Appeals proceedings). This includes proceedings at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include audits, site visits, corrective plans, or inspection of deliverables.

b. Conviction, for purposes of this award term and condition, means a judgment or conviction of a criminal offense by any court of competent jurisdiction, whether entered upon a verdict or a plea, and includes a conviction entered upon a plea of *nolo contendere*.

c. Total value of currently active grants, cooperative agreements, and procurement contracts includes -

(1) Only the Federal share of the funding under any Federal award with a recipient cost share or match; and

(2) The value of all expected funding increments under a Federal award and options, even if not yet exercised.

**Longest Path with BL: Jurupa Grade Separation  
New (DD 10.5.2024)**

Print Date: 10/23/2024 10:04:23 AM

Line	Unique task ID	Name	Duration	Remaining Duration	BL Start	Start	BL Finish	Finish	Total Float	Total Float Variance	2024												2025												2026												2027												
											Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>CONSTRUCTION/STAGE 1B/STRUCTURES/DRAINAGE STRUCTURES/ARCH CULVERT EXT/ARCH CULVERT SHORING SUBMITTAL</b>																																																											
1	S.ARC.1000	PREPARE/SUBMIT SHORING ARCH CULVERT (SUB #532) STG 1B	27d	0d	2/8/2024 A	2/8/2024 A	3/19/2024 A	3/19/2024 A	0d	0d	1	PREPARE/SUBMIT SHORING ARCH CULVERT (SUB #532) STG 1B																																															
2	S.ARC.1010	REVIEW & APPROVE SHORING ARCH CULVERT (SUB #532) STG 1B	10d	0d	3/20/2024 A	3/20/2024 A	4/3/2024 A	4/3/2024 A	0d	0d	2	REVIEW & APPROVE SHORING ARCH CULVERT (SUB #532) STG 1B																																															
3	S.ARC.1020	PREPARE/SUBMIT SHORING ARCH CULVERT (SUB #532.1) STG 1B	2d	0d	4/4/2024 A	4/4/2024 A	4/5/2024 A	4/5/2024 A	0d	0d	3	PREPARE/SUBMIT SHORING ARCH CULVERT (SUB #532.1) STG 1B																																															
4	S.ARC.1030	REVIEW & APPROVE SHORING ARCH CULVERT (SUB #532.1) STG 1B	18d	0d	4/8/2024 A	4/8/2024 A	5/1/2024 A	5/1/2024 A	0d	0d	4	REVIEW & APPROVE SHORING ARCH CULVERT (SUB #532.1) STG 1B																																															
5	S.ARC.1040	PREPARE/SUBMIT SHORING ARCH CULVERT (SUB #532.2) STG 1B	12d	0d	5/2/2024 A	5/2/2024 A	5/17/2024 A	5/17/2024 A	0d	0d	5	PREPARE/SUBMIT SHORING ARCH CULVERT (SUB #532.2) STG 1B																																															
6	S.ARC.1050	REVIEW & APPROVE SHORING ARCH CULVERT (SUB #532.2) STG 1B	17d	0d	5/20/2024 A	5/20/2024 A	6/10/2024 A	6/12/2024 A	0d	-2d	6	REVIEW & APPROVE SHORING ARCH CULVERT (SUB #532.2) STG 1B																																															
7	S.ARC.1060	PREPARE/SUBMIT SHORING ARCH CULVERT (SUB #532.3) STG 1B	6d	0d	6/13/2024 A	6/13/2024 A	6/20/2024 A	6/20/2024 A	0d	0d	7	PREPARE/SUBMIT SHORING ARCH CULVERT (SUB #532.3) STG 1B																																															
8	S.ARC.1070	Review & Approve SHORING ARCH CULVERT (SUB #532.3) STG 1B	8d	0d	6/21/2024 A	6/21/2024 A	6/28/2024 A	6/28/2024 A	0d	0d	8	Review & Approve SHORING ARCH CULVERT (SUB #532.3) STG 1B																																															
9	S.ARC.1080	PREPARE/SUBMIT SHORING ARCH CULVERT (SUB #532.4) STG 1B	4d	0d	7/1/2024 A	7/1/2024 A	7/5/2024 A	7/5/2024 A	0d	0d	9	PREPARE/SUBMIT SHORING ARCH CULVERT (SUB #532.4) STG 1B																																															
10	S.ARC.1090	Review & Approve SHORING ARCH CULVERT (SUB #532.4) STG 1B	11d	0d	7/8/2024 A	7/8/2024 A	7/22/2024 A	7/22/2024 A	0d	0d	10	Review & Approve SHORING ARCH CULVERT (SUB #532.4) STG 1B																																															
<b>CONSTRUCTION/STAGE 1B/STRUCTURES/DRAINAGE STRUCTURES/ARCH CULVERT EXT/Arch Culvert Track Monitoring</b>																																																											
11	S.ARC.1310	Prepare/Submit Arch Culvert Track Monitoring (Sub 624)	1d	0d	7/26/2024 A	7/26/2024 A	7/26/2024 A	7/26/2024 A	0d	0d	11	Prepare/Submit Arch Culvert Track Monitoring (Sub 624)																																															
12	S.ARC.1320	Review & Approve Arch Culvert Track Monitoring (Sub 624)	28d	0d	7/29/2024 A	7/29/2024 A	9/5/2024 A	9/5/2024 A	0d	0d	12	Review & Approve Arch Culvert Track Monitoring (Sub 624)																																															
13	S.ARC.1321	Prepare/Submit Arch Culvert Track Monitoring (Sub 635)	1d	0d	9/4/2024 A	9/4/2024 A	9/4/2024 A	9/4/2024 A	0d	0d	13	Prepare/Submit Arch Culvert Track Monitoring (Sub 635)																																															
14	S.ARC.1322	Review & Approve Arch Culvert Track Monitoring (Sub 635)	9d	0d	9/5/2024 A	9/5/2024 A	9/17/2024 A	9/17/2024 A	0d	0d	14	Review & Approve Arch Culvert Track Monitoring (Sub 635)																																															
15	S.ARC.1323	Procure & Install Track Monitoring	15d	0d	9/16/2024 A	9/16/2024 A	10/4/2024 A	10/4/2024 A	0d	0d	15	Procure & Install Track Monitoring																																															
<b>CONSTRUCTION/STAGE 1B/STRUCTURES/DRAINAGE STRUCTURES/ARCH CULVERT EXT/ARCH CULVERT CONSTRUCTION</b>																																																											
16	S1B.ARC.1030	MOBE/INSTALL SHORING ARCH CULVERT EXT STG 1B	8d	8d	6/11/2024	10/5/2024	6/19/2024	10/15/2024	-95d 8h	-98d	16	MOBE/INSTALL SHORING ARCH CULVERT EXT STG 1B																																															
17	S1B.ARC.1040	INSTALL TEMP SHORING W ARCH CULVERT EXT STG 1B	12d	12d	6/20/2024	10/16/2024	7/3/2024	10/29/2024	-95d 8h	-98d	17	INSTALL TEMP SHORING W ARCH CULVERT EXT STG 1B																																															
18	S1B.ARC.1050	DEMO & REMOVE W WINGWALLS ARCH CULVERT EXT STG 1B	4d	4d	7/5/2024	10/30/2024	7/9/2024	11/2/2024	-95d 8h	-98d	18	DEMO & REMOVE W WINGWALLS ARCH CULVERT EXT STG 1B																																															
19	S1B.ARC.1060	INSTALL CIDH PILES ARCH CULVERT EXT STG 1B	12d	12d	7/10/2024	11/4/2024	7/23/2024	11/18/2024	-95d 8h	-98d	19	INSTALL CIDH PILES ARCH CULVERT EXT STG 1B																																															





























One Tower Square  
Hartford, CT 06183\*\*

Travelers: 107444291  
Federal: K40318987  
CNA: 30122554

To be attached to and form part of Bond No. \_\_\_\_\_

Issued on behalf of Granite Construction Company as Principal, and in favor of the County of Riverside as Obligee.

It is agreed that:

1. The Surety hereby gives its consent to the change of the Amount of Payment and Performance Bonds.

From: \$116,000,000.00  
\_\_\_\_\_  
\_\_\_\_\_

To: \$117,250,000.00  
\_\_\_\_\_  
\_\_\_\_\_

2. This rider is effective as of noon on November 25, 2024

PROVIDED, however, that the liability of the Surety under the attached bond as changed by this Rider shall not be cumulative.

Signed, sealed and dated November 25, 2024

\*Federal Insurance Company  
The Continental Insurance Company  
Jointly and Severally Liable  
\*\*Whitehouse Station, NJ, Chicago, IL,  
respectively

Travelers Casualty and Surety Company of America \*

By:   
\_\_\_\_\_  
Isabel Barron , Attorney-in-Fact

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

## ACKNOWLEDGMENT

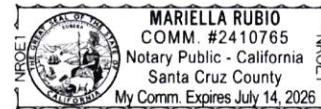
State of California  
County of Santa Cruz)


On November 25, 2024 before me, Mariella Rubio, Notary Public  
(insert name and title of the officer)

personally appeared Isabel Barron,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing  
paragraph is true and correct.

WITNESS my hand and official seal.



Signature  (Seal)  
Mariella Rubio, Notary Public



**Travelers Casualty and Surety Company of America**  
**Travelers Casualty and Surety Company**  
**St. Paul Fire and Marine Insurance Company**

**POWER OF ATTORNEY**

**KNOW ALL MEN BY THESE PRESENTS:** That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Isabel Barron** of **WATSONVILLE**, **California**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

**IN WITNESS WHEREOF**, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April**, **2021**.



State of Connecticut

City of Hartford ss.

By:   
 Robert L. Raney, Senior Vice President

On this the **21st** day of **April**, **2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

**IN WITNESS WHEREOF**, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, **2026**



  
 Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

**RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

**FURTHER RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

**FURTHER RESOLVED**, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

**FURTHER RESOLVED**, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **25th** day of **November**, **2024**



  
 Kevin E. Hughes, Assistant Secretary

**To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.**  
**Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.**

Know All by These Presents, that FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, PACIFIC INDEMNITY COMPANY, a Delaware corporation, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY corporations of the Commonwealth of Pennsylvania, do each hereby constitute and appoint Isabel Barron, John D. Gilliland, Maria Gomez, William Phillips, Jr., Roberto J. Rivera-Rodriguez, Mariela Rubio, Ashley Stinson and Tobi Telesco of Watsonville, California

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY have each executed and attested these presents and affixed their corporate seals on this 15th day of July, 2024.

Rupert HD Swindells
Rupert HD Swindells, Assistant Secretary

Warren Eichhorn, Vice President



STATE OF NEW JERSEY
County of Hunterdon SS.

On this 15th day of July, 2024 before me, a Notary Public of New Jersey, personally came Rupert HD Swindells and Warren Eichhorn, to me known to be Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY, the companies which executed the foregoing Power of Attorney, and the said Rupert HD Swindells and Warren Eichhorn, being by me duly sworn, severally and each for himself did depose and say that they are Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY and know the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of said Companies; and that their signatures as such officers were duly affixed and subscribed by like authority.

Notarial Seal



Albert Contursi
NOTARY PUBLIC OF NEW JERSEY
No 50202369
Commission Expires August 22, 2027

Albert Contursi
Notary Public

CERTIFICATION

Resolutions adopted by the Boards of Directors of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY on August 30, 2016; WESTCHESTER FIRE INSURANCE COMPANY on December 11, 2006; and ACE AMERICAN INSURANCE COMPANY on March 20, 2009:

"RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company entered into in the ordinary course of business (each a "Written Commitment"):

- (1) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.
(2) Each duly appointed attorney-in-fact of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such person's written appointment as such attorney-in-fact.
(3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorney-in-fact of the Company with full power and authority to execute, for and on behalf of the Company, under the seal of the Company or otherwise, such Written Commitments of the Company as may be specified in such written appointment, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
(4) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to delegate in writing to any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in such written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
(5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, by or on behalf of the Company, may be in facsimile on such Written Commitment or written appointment or delegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested."

I, Rupert HD Swindells, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY (the "Companies") do hereby certify that

- (i) the foregoing Resolutions adopted by the Board of Directors of the Companies are true, correct and in full force and effect,
(ii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Whitehouse Station, NJ, this 25th day of November, 2024.



Rupert HD Swindells, Assistant Secretary



IN THE EVENT YOU WISH TO VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT: Telephone (908) 903- 3493 Fax (908) 903- 3656 e-mail: surety@chubb.com

**POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT**

**Know All Men By These Presents,** That The Continental Insurance Company, a Pennsylvania insurance company, is a duly organized and existing insurance company having its principal office in the City of Chicago, and State of Illinois, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**John D. Gilliland, Ashley Stinson, Tobi Telesco, Isabel Barron, Roberto J. Rivera-Rodriguez, Maria Gomez, Mariela Rubio, William Phillips, Jr., Individually**

of Watsonville, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

**- In Unlimited Amounts -**

and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the insurance company and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the Authorizing By-Laws and Resolutions printed at the bottom of this page, duly adopted, as indicated, by the Board of Directors of the insurance company.

**In Witness Whereof,** The Continental Insurance Company has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 24th day of June, 2024.



The Continental Insurance Company

*Larry Kasten*

Larry Kasten

Vice President

State of South Dakota, County of Minnehaha, ss:

On this 24th day of June, 2024, before me personally came Larry Kasten to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of The Continental Insurance Company, a Pennsylvania insurance company, described in and which executed the above instrument; that he knows the seal of said insurance company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said insurance company and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said insurance company.



My Commission Expires March 2, 2026

*M. Bent*

M Bent

Notary Public

**CERTIFICATE**

I, Paula Kolsrud, Assistant Secretary of The Continental Insurance Company, a Pennsylvania insurance company, do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the By-Law and Resolutions of the Board of Directors of the insurance company printed below this certificate are still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said insurance company this 25th day of November, 2024.



The Continental Insurance Company

*Paula Kolsrud*

Paula Kolsrud

Assistant Secretary

**Authorizing By-Laws and Resolutions**

ADOPTED BY THE BOARD OF DIRECTORS OF THE CONTINENTAL INSURANCE COMPANY:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company at a meeting held on May 10, 1995

“RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective

This Power of Attorney is signed by Larry Kasten, Vice President, who has been authorized pursuant to the above resolution to execute power of attorneys on behalf of The Continental Insurance Company.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25<sup>th</sup> day of April, 2012

“Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the “Authorized Officers”) to execute various policies, bonds, undertakings and other obligatory instruments of like nature, and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, “Electronic Signatures”), Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company.”

This Power of Attorney may be signed by digital signature and sealed by a digital or otherwise electronic-formatted corporate seal under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 27<sup>th</sup> day of April, 2022:

“RESOLVED: That it is in the best interest of the Company to periodically ratify and confirm any corporate documents signed by digital signatures and to ratify and confirm the use of a digital or otherwise electronic-formatted corporate seal, each to be considered the act and deed of the Company.”

Go to [www.cnasurety.com](http://www.cnasurety.com) > Owner / Obligee Services > Validate Bond Coverage, if you want to verify bond authenticity.