



## Fact Sheet Rio Hondo Bridge Repair

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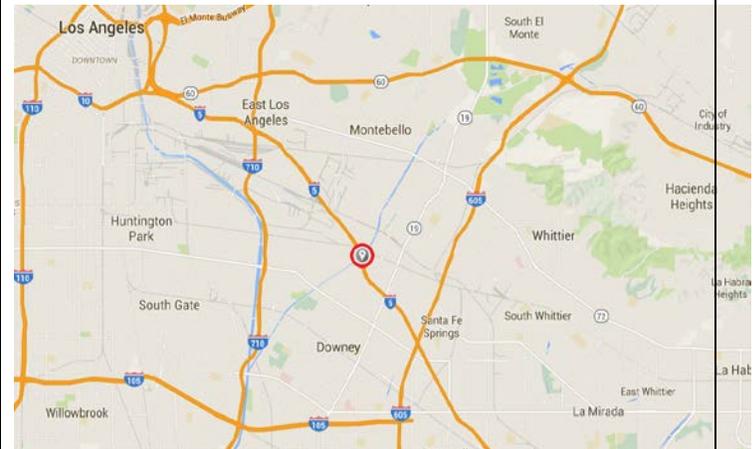
### PROJECT LOCATION MAP

#### Project Location

07-LA-5-PM-9.47, Br. 53-0639

This 635-foot-long bridge carries Interstate 5 over the Rio Hondo River in Downey, Los Angeles County.

The bridge, built in 1953 and widened in 1982, features simply-supported 8 spans, welded plate steel girders, and modified steel stringers with a reinforced concrete (RC) deck slab and RC open end seated abutments and solid piers. The bridge carries an average of 233,000 vehicles a day.



Rio Hondo Br. 53-0639

#### Event Description

The bridge was damaged by a fire that broke out in a transient camp beneath the bridge in the early morning hours of July 7, 2015. Caltrans kept southbound lanes closed to check the structural integrity of the bridge. Structure Maintenance performed an emergency inspection of the bridge. The damage was mostly concentrated at Spans 7 and 8 under southbound Interstate 5.

The freeway was reopened on Wednesday, July 8, 2015 after the bridge was shored. Structure Maintenance found that heat from the flames caused 8 girders to warp, paint to peel on 13 steel girders, sheared off bolts on the lateral steel supports, damaged bearings and delaminated concrete. Subsequently we had two more emergency concrete spall repairs.

#### Bridge Repair Project

1. Demolish affected deck.
2. Re-construct with special concrete to expedite repair and reduce closure duration.
3. Install fencing to prevent unauthorized access

#### Repair Schedule

Weather permitting, construction is scheduled to start on October 16 for Stage 1, which consists of replacing the bridge deck of southbound I-5 lanes 3 and 4. Stage 2 is tentatively scheduled to start on October 23 to replace the bridge deck on southbound I-5 lanes 1 and 2 and northbound I-5 lane 1.

#### Stage 1 - Repair SB lanes 3 & 4

1. Saturday, Oct. 17: fully close SB I-5 between 2 a.m. and 6 a.m. to place K-rail. Re-open two left lanes at 6 a.m.
  - a. Close the following SB 5 on-ramps between midnight Friday and 6 a.m. Saturday:  
Atlantic Blvd. (North), Washington Blvd. & Garfield Ave.
  - b. Close SB 5 on-ramp from Slauson Ave. and SB 5 off-ramp to Triggs Ave. during entire weekend closure
  - c. Close SB 710 to SB 5 connector at midnight Friday and keep closed during entire extended weekend closure
2. Saturday at 11 p.m., fully close I-5 in both directions to pour and cure the concrete.
  - a. Close the following ramps at 9 p.m. and keep closed during full freeway closures:

- NB 5 on-ramps from Lakewood/Rosemead Blvd. & Paramount Blvd.
  - SB 5 on-ramps from Atlantic Blvd. (North), Washington Blvd. & Garfield Ave.
- b. Close the following connectors:
- SB 605 to NB 5 on Saturday at 9 p.m.
  - NB 605 to NB 5 on Saturday at 11 p.m.

3. Sunday, October 18: re-open all NB lanes at 5 a.m. and all SB lanes at 9 a.m.

### **Stage 2 - Repair SB Lane 1 & 2 and NB Lane 1**

1. Saturday, October 23 (tentative): fully close SB I-5 between 2 a.m. and 6 a.m., and close three left lanes on NB I-5 between 2 a.m. and 4 a.m., to place K-rail. Re-open two right lanes of SB I-5 at 6 a.m. and three right lanes of NB I-5 at 4 a.m.
  - a. Close the following SB 5 on-ramps between midnight Friday and 6 a.m. Saturday: Atlantic Blvd. (North), Washington Blvd. & Garfield Ave.
  - b. Close SB 5 on-ramp from Slauson Ave. and SB 5 off-ramp to Triggs Ave. during entire weekend closure
  - c. Close the following connectors:
    - SB 710 to SB 5 at midnight Friday and keep closed during entire extended weekend closure
    - NB 605 & SB 605 to NB 5 at 8 a.m. and keep closed for remainder of extended weekend closure
2. Saturday at 11 p.m., fully close I-5 in both directions to pour and cure the concrete.
  - a. Close the following ramps at 9 p.m. and keep closed during full freeway closures:
    - NB 5 on-ramps from Lakewood/Rosemead Blvd. & Paramount Blvd.
    - SB 5 on-ramps from Atlantic Blvd. (North), Washington Blvd. & Garfield Ave.
3. Sunday, November xx: re-open all NB lanes at 7 a.m. and all SB lanes at 10 a.m.

### **Transportation Management Plan (TMP)**

In order to alleviate the anticipated significant traffic impact during the proposed two extended weekend closures the following TMP strategies will be implemented:

#### **Public Information**

An extensive public awareness campaign (PAC) and media outreach will be conducted that will include stakeholder and media briefings, press releases/media alerts, advertisements, and a dedicated project web site. The scope of the PAC includes informing the public about the construction project and its impacts on the communities, as well as providing information on various measures commuters may use to avoid congestion.

#### **Motorist Information**

Fixed and portable changeable message signs (CMS) will display messages to notify road users of upcoming extended weekend closures. During the extended weekend closure, portable CMS will be deployed on the freeway network and local streets in the vicinity of the work zone to advise motorists of traffic conditions and to promote traffic diversion away from the work area. Fixed CMS will provide real-time traffic conditions.

#### **Incident Management**

The CHP will be utilized under the Construction Zone Enhanced Enforcement Program (COZEEP) to assist with lane closures and traffic control operations, and to maintain a safe working zone for the contractor and the motoring public. Freeway Service Patrol will be available. Moreover, the traffic management team (TMT) will assist in managing traffic on the freeway system during periods of congestion.

#### **Construction Coordination**

Coordination with adjacent construction projects will be done to avoid conflicts with concurrent closures. Construction staging with lane shifts to the shoulder or median will occur during the extended weekend closure to maintain a reduced number of freeway lanes.

#### **Demand Management**

Upstream on-ramps, listed above in the Repair Schedule section, will be closed to reduce the traffic demand approaching the work zone during full freeway closures. In addition, the upstream connectors will be closed for the entire duration of the extended weekend closure.