

Scope of Work

The intent of the bridge rehabilitation program is to cost-effectively upgrade components to the most recent code resulting in a rejuvenated structure that provides additional years of service.

The scope of work includes the following:

1. Deck Rehabilitation
 - Removal and disposal of asphalt, waterproofing membrane and top 25mm of deck concrete;
 - Concrete deck repairs; and
 - Pour 65mm Concrete overlay, apply membrane and place asphalt surface.
2. Barrier replacements
 - Remove and replace center median guard rail with new concrete median barrier;
 - Remove and replace outside bridge barriers and increase the height to current code; and
 - Remove and replace pedestrian railing and the walkway barriers to increase the height to current code.
3. Sidewalk widening and repairs
 - Repair the concrete walkway; and
 - Widen the walkway from 1.8 metres to 2.1 metres.
4. Pier strengthening (bridge only)
5. Expansion joint replacement
6. Drainage Upgrades
 - Remove existing drainage system and install 28 deck drains to reduce hydroplaning and splashing.
7. General concrete repairs and structure cleaning

Project Schedule

The rehabilitation work will be completed in the following sequence:

Phase 1: April 15 to October 31, 2019

- Complete work on southbound lanes of traffic bridge and the Idylwyld Drive ramp.

Winter shutdown: November 1, 2019 to March 31, 2020

- All traffic restrictions will be removed from the Sid Buckwold Bridge and both ramp structures.
- Work that does not impact vehicular traffic may continue.

Phase 2: April 1 to October 30, 2020

- Complete work on the northbound lanes and sidewalk of the Sid Buckwold Bridge and northbound lanes of both ramp structures

Contract Completion Date: October 30, 2020.

Schedule Incentives

The contract allows extended work hours and includes a site rental clause to ensure the project is delivered in the most efficient and effective manner that the industry can provide for this type of project.

The contractor will be permitted to perform work 24 hours a day. During hours outside of 7 a.m. to 10 p.m., the contractor will be required to minimize noise levels to typical traffic background noise. The intent of this clause is to allow for overnight work, while restricting specific tasks that have the highest noise impact to residents. The Engineer will be responsible for determining if a specific task impact is beyond the acceptable levels.

The contract includes a charge rate of \$10,000 for every calendar day that traffic is impacted. This creates a scenario where once construction starts, the contractor is incentivized to complete the work earlier, which would translate into a bonus. A late completion means the contractor would incur site rental charges, which therefore reduces the City's overall cost of the project as the consequence.

It is important to note that these kinds of projects can be subject to significant variations in schedule and cost. Quantity estimates have been made using the best information available from non-destructive testing. There is a possibility that a contractor could complete the estimated work quantities in less than allotted time period. There is also a possibility that once demolition begins, the required work may be more extensive than anticipated, which could increase project cost and duration. The Administration will communicate the work for the duration of the rehabilitation project.

Traffic Restrictions

The Sid Buckwold Bridge will have three lanes open to traffic during each phase of construction. Phase 1 will include two lanes northbound (into downtown) and one lane southbound (leaving downtown). Phase 2 will include two lanes southbound and one lane northbound.

The contract allows the bridge to be reduced to a single northbound and southbound lane on Saturdays, Sundays, or between 8:00 p.m. and 6:00 a.m. to allow for concrete pours.

Sid Buckwold Bridge Closures

Phase 1: The southbound lanes will be closed. Three lanes will remain open on the east side of the bridge allowing for two lanes northbound and one lane southbound, during this phase, the sidewalk will remain unrestricted.

Phase 2: The northbound lanes and sidewalk will be closed, and the southbound lanes will be open, allowing for two lanes southbound and one lane northbound.

Idylwyld Drive NB/SB Ramp over 19th Street Closures

Phase 1: The southbound lanes will be closed and two northbound lanes will remain open on the bridge, allowing for single lane two-way traffic.

Phase 2: The northbound lanes will be closed and the southbound lanes will be open, allowing for single lane two-way traffic.

Idylwyld Drive NB Ramp to 1st Avenue Closures

Phase 1: The ramp will remain open.

Phase 2: The ramp will be closed.

19th Street Lane Closures

There will be single lane traffic restrictions to complete repairs under the bridge if required. There will be no lane closures between 7:00 a.m. and 9:00 a.m. or 3:30 p.m. and 6:00 p.m.

Pathways below Sid Buckwold Bridge

- The River Landing pathway below the north end of the Sid Buckwold Bridge will remain open; however, it may be restricted to a 3.0 wide pathway to allow for abutment repair.
- The pathway below the south end of the bridge will be closed while work is happening near the south abutment.