

# QEII HIGHWAY/41 AVENUE SW INTERCHANGE PROJECT

## CONSTRUCTION UPDATE

(May 2014)

In 2013 the City of Edmonton began construction of a grade-separated interchange at the junction of QEII Highway and 41 Avenue SW. This partial cloverleaf interchange will convert 41 Avenue SW into a continuous corridor with full access to and from QEII Highway.

The project is jointly funded by the City of Edmonton, Alberta Transportation and the Federal Government through the Asia-Pacific Gateway and Corridor Initiative (APGCI). The interchange will facilitate development in and around Edmonton, as well as travel within Alberta and inter-provincially.

### ROADS

Roadwork is resuming now that spring has arrived. In 2013, a significant amount of earth was placed in preparation for new northbound and southbound lanes on QEII Highway, as well as for the new alignment of 41 Avenue SW. Final grading for the southbound lanes is nearly done and some areas have been built up with granular base in preparation for paving. Work on the northbound lanes will progress further once southbound traffic is moved over to the new lanes.

### BRIDGES

Construction on the 41 Avenue SW over QEII Highway Bridge began in fall 2013 and continued through the winter. Three piers and two abutments have been cast and girders are being erected into position.

Work on the bridges carrying 41 Avenue SW east over the CP Rail tracks began in early 2014.

Earthwork and realignment of Blackmud Creek are underway in preparation for construction of the bridge that will carry 41 Avenue SW west over Blackmud Creek.



*Project overview*



*Worksite adjacent to QEII Hwy looking east*



*41 Ave SW over QEII Highway Bridge*

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3 m diameter manhole being installed for the 1.5 m diameter storm sewer.

## DRAINAGE

A significant amount of drainage work was completed in 2013, including culverts for the new QEII Highway southbound lanes. Crews finished approximately 350 m of a 1.5 m diameter concrete storm sewer, and excavated storm water management ponds west of QEII Highway. Remaining work on the storm sewer includes trenchless installation of approximately 100 m of 2 m diameter casing pipe beneath QEII Highway northbound lanes, the CP Rail tracks and several oil pipelines.

## UTILITIES

Utility work for the project is mostly complete. Oil pipelines adjacent to the CP Rail tracks on the east side of the QEII Highway were relocated in fall 2013 to facilitate wall and embankment construction. Water, electric and gas transmission, and gas distribution utilities were also relocated.

## TRAFFIC IMPACTS

Traffic closures will be mostly at night, and lanes will remain open to traffic on QE II Hwy throughout construction.

Lane Closures Permitted	a.m.											p.m.											
	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10
Monday to Thursday	Red						Green					Green											
Friday	Red						Green					Green											
Saturday	Red						Green					Green											
Sunday	Red						Green					Green											
Legend:	Green = No lanes closed						Yellow = Up to 1 lane closed					Red = Up to 2 adjacent lanes closed											

CONSTRUCTION TIMELINE	
2013	<p><b>Completed</b></p> <ul style="list-style-type: none"> <li>• Closed local 30 Ave SW, 41 Ave SW and RR 245B access.</li> <li>• Earthwork for new QEII Hwy southbound in place.</li> <li>• Pier foundation work for 41 Ave SW over QEII Hwy Bridge completed. Approximately 350m of 1500 mm storm sewer installed.</li> <li>• Majority of utility relocations complete.</li> </ul>
2014	<p><b>Ongoing/Upcoming</b></p> <ul style="list-style-type: none"> <li>• Blackmud Creek re-alignment.</li> <li>• 8 St SW service road and 41 Ave SW east of QEII Hwy closed in April.</li> <li>• Completion of 41 Ave SW over QEII Hwy Bridge.</li> <li>• New QEII Hwy SB lanes to open in summer and new NB lanes to open in fall.</li> <li>• Installation of the remainder of 1500 mm diameter storm sewer.</li> <li>• Beginning of Blackmud Creek Bridge, 41 Ave SW CP Rail ramp and 41 Ave SW CP Rail main bridges.</li> <li>• Grading, landscaping and installation of flow control devices for storm water management ponds west of QEII Hwy.</li> </ul>
2015	<ul style="list-style-type: none"> <li>• Completion of outstanding work on the four bridges.</li> <li>• Completion of work on 41 Ave SW.</li> <li>• Interchange open to public traffic.</li> </ul>