



102 AVENUE OVER GROAT ROAD BRIDGE REPLACEMENT

MARCH 2014

About the Project

In keeping with The Way We Move's commitment to well-maintained and well-managed infrastructure, the City of Edmonton is replacing the 102 Avenue over Groat Road Bridge, which has reached the end of its service life and needs to be replaced. During construction the bridge will be closed to all vehicle and pedestrian traffic. Residential and business access will be maintained for the duration of the project.

Project Scope and Budget

The replacement bridge will be a single-span bridge (i.e. no piers or columns) that maintains four lanes of traffic with wider lanes to meet current standards. It will also include wider sidewalks on both sides with barriers separating pedestrians from vehicle traffic. The project includes:

- Installation of a drainage drop shaft structure on the southeast side (completed in 2013);
- Removal of trees to accommodate work in the Groat Ravine;
- Stabilization of slopes below the bridge;
- Shoring work on the nearby Wellington Bridge to accommodate truck traffic to the project site;
- Demolition of the existing bridge;
- Replacement of the existing bridge structure with a new single span bridge;
- New landscaping of affected areas for aesthetics and erosion control;
- Re-grading of the road approaches to the new bridge;
- Integration of art into the bridge.

The bridge replacement budget is \$32 million.

Project Status

A drainage drop shaft structure was built in 2013. Tree clearing took place in February and March

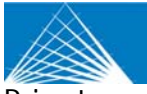


2014, with Drainage upgrades and slope stabilization to follow. The bridge will close July 1 for demolition and construction, with the replacement bridge expected to open in fall 2016.

There will be traffic, bus and pedestrian detour routes for the duration of construction. Traffic will detour to 107 Avenue and 111 Avenue. ETS bus Routes 1, 14, 100 and 120 will detour to Stony Plain Road via 124 Street. A free shuttle bus will be provided for pedestrians and ETS customers. The existing wooden sidewalk on the west side of Groat Road below the bridge will be closed during demolition and a trail detour put in place. The closure will be coordinated with special events (e.g. Heritage Festival) to maintain access along Groat Road.

There will be noise and dust from construction, but the noisiest activities will take place during the day. Contractors are required to mitigate noise and dust during construction. There will be some overnight work and full weekend closures on Groat Road during demolition of the existing structure and erection of new bridge girders.

Access for residents and businesses will be maintained throughout construction. Signs with general information will be posted advising how to access businesses.



Prior to construction the City carried out visual inspections of nearby homes and businesses to assess and create a record of pre-construction conditions.

Background

At the beginning of preliminary design, a site investigation was carried out to determine the existing soil types and characteristics. Based on the investigation's findings, slopes will be stabilized using a technique called "soil nailing". This involves installing long steel bars into the slopes to improve stability. In addition, the re-vegetation of the slopes with native plants after construction is completed will reduce erosion and provide additional slope stability. It will also replace the plant material removed for bridge construction.

A public meeting was held September 25, 2012 in conjunction with the Stony Plain Road over Groat Road Bridge project. A final pre-construction

meeting was scheduled for March 13, 2014 to share construction and traffic detour information.

Other area projects in the area include:

- North Glenora Neighbourhood Reconstruction 2014
- Grovenor Neighbourhood Reconstruction 2014
- Glenora Neighbourhood Reconstruction 2014-15
- Westmount Neighbourhood Reconstruction 2015
- Residences of Clifton Place condo development is adjacent to the bridge construction project at the intersection of Clifton Place and 102 Avenue. WAM Development Group is reviewing the construction schedule for their proposed development. There is a possibility that construction may occur concurrently with bridge construction. The City will continue to coordinate with WAM Development Group as required.