
TO: Mayor J. Lehman and Members of Council

FROM: R. Sutton, P. Eng., Director of Engineering

NOTED: R. J. Forward, MBA, M.Sc., P. Eng., General Manager of Infrastructure & Growth Management
C. Ladd, Chief Administrative Officer

RE: New Crossing of Highway 400 at Harvie Road and Big Bay Point Road – Project Update
(T05-HAR)

DATE: June 12, 2017

The purpose of this memo is to provide an update on the progress of the new crossing over Highway 400 connecting Harvie Road and Big Bay Point Road as follows:

- The 30% design was approved by the City of Barrie and MTO in April 2017. The consultant, Hatch, is currently working on 60% design which is expected to be completed in June 2017. The general roadway cross section on Big Bay Point Road and Harvie Road immediately east and west of Highway 400 has been set at 2 lanes in each direction with a continuous left turn lane, buffered bike lanes and sidewalks on each side of the roadway.
- Utility meetings have determined that utility corridors are required in specific areas due to the height of fill for the bridge approaches exceeded the loading capacity of the existing underground sanitary sewer and watermain so they are being relocated outside of the typical road cross section. Additional property was required to accommodate the utility corridors and maintain operations of the existing utilities at all times. Hatch will work with all utility companies to identify additional conflict points and determine timeframes for utility relocations. Construction associated with utility relocations are expected to start in the winter of 2018.
- An R-Plan is expected to be registered by June 2, 2017 for all property east of Highway 400, except the MTO's property immediately south of the existing service center. Staff have met and talked with all four (4) owners on the east side of Highway 400 regarding the latest design and property requirements. The MTO is aware of the property requirements and are assigning a Property Officer to the project.
- The R-Plan for the north-west quadrant (Bell Media property) of the highway crossing will be registered after the archeological assessment receives clearance for the preferred alignment. A Stage 2 archeological assessment is scheduled to be completed in July 2017. Barrie's Legal and Real Estate Services department has initiated a property appraisal for the widenings associated with this north-west quadrant and initiated discussions with Bell Media representatives.
- The remaining R-Plans for the properties west of Highway 400 are expected in July, 2017.
- The Stage 4 archaeological assessment started May 29, 2017. A purchase order has been approved by the City for the Huron-Wendat to monitor the Stage 4 archaeological assessment. There will also be Stage 2 assessments done on the future utility corridors on Harvie Road, Big Bay Point Road, Bryne Drive and Fairview Road over the summer.
- Geotechnical investigations for the structure abutments and median pier are complete.
- The MTO have advised that they intend to replace the Highway 400 / Essa Road interchange immediately after this project is completed starting in 2020. For that reason the MTO are revising the scope of work initially planned for the Essa Road portion of the Harvie Crossing project. Pavement rehabilitation of the existing Essa Road interchange ramps will be done with the Essa Road bridge reconstruction. The MTO carpool lot (southwest quadrant of Essa Road/Ardagh Road) paving currently remains in this project. Staff are making every effort to accelerate construction.

Risk Management

The MTO have advised City staff that the Highway 400 TESR will be completed by the end of 2017. The PIC was held on April 25, 2017. The MTO has confirmed there will not be any Highway 400 alignment shift to the west (recommended in the previous 2004 Hwy 400 TESR) in the immediate vicinity of the Harvie Crossing. There is minimal risk to the City in proceeding with the design of the Harvie Road Crossing project.

Project risks are tracked on a monthly basis to ensure project risks are mitigated, avoided or accepted. Utility relocation timing and archaeological issues have been identified as potential risks to the schedule. The project is still on schedule for design completion by the end of 2017.

Communications

Additional information and updates to the community may be found on the City website under the "Road Ahead" page at www.barrie.ca/RoadAhead and then clicking on the Harvie Road / Big Bay Point Road / Crossing of Highway 400 project.

Next Steps

The next steps are as follows:

- Meet with the MTO in June 2017 to review monthly progress and initiate property discussion.
- Complete property appraisals and continue negotiations and potentially initiate expropriation for property acquisition.
- Continue coordination with utility companies to determine extent of any impacts on existing utilities as a result of the highway crossing, and develop a detailed schedule for utility relocation in advance of the construction of the highway crossing bridge structure and associated road works.
- A detailed design PIC will occur on June 22, 2017 combined with the Class EA PIC for the Transportation Improvements along Byrne Drive (Essa Road to Caplan Avenue) and Harvie Road (Byrne Drive to Essa Road). Information will be presented on the current status of the detailed design for the Harvie Road – Big Bay Point Road crossing of Highway 400, including possible construction staging and road closures.

Other Related City Projects

Other projects that are either underway or planned in the vicinity of the Harvie Road Crossing project include:

- Transportation Improvements along Bryne Drive (Essa Road to Caplan Avenue) and Harvie Road (Bryne Drive to Essa Road):
 - The project scope consists of completing a Schedule C (Phases 3 and 4) Class Environmental Assessment and detailed design for the preferred alternative design alternative. The 30% design has been completed on Harvie Road and a PIC is scheduled for June 22, 2017. The scheduled completion for the Phase 3 & 4 Class EA is the Summer of 2017, and detailed design for the Harvie Road portion from Veterans to Bryne has been accelerated and is expect to be completed by December 2017. The remaining design (Harvie – Essa Road to Veterans Drive, Bryne – Essa Road to Caplan Avenue) will be completed in the Spring of 2018. The section on Harvie Road between Veterans Drive and Bryne Drive is being prioritized because that construction is anticipated to coincide with the Harvie Road Crossing project given that it's a critical link for Harvie Road to operate at an acceptable level of service.

- Bayview Drive and Big Bay Point Road Transportation Improvements Municipal Class EA Phases 3 and 4:
 - The RFP for detailed design closed May 25, 2017 and is in the process of being awarded to the successful consultant. The intersection of Bayview Drive and Big Bay Point Road is on an accelerated schedule to coincide with the Harvie crossing for December 2017. The remaining detailed design for this project is included in the 2017 Business Plan and is scheduled to be completed by the end of 2018.
- Detailed design for Essa Road between Anne Street and Bryne Drive:
 - Discussions will be conducted with MTO to coordinate Essa Road design/construction with the MTO Essa Interchange projects starting 2020. The limits of the works are to be determined.

City staff will continue to prioritize the Harvie Road Crossing of Highway 400 and work collaboratively with the MTO, Lake Simcoe Region Conservation Authority, community stakeholders and members of Council to ensure a successful outcome for this important project in an accelerated timeframe.

If there are any questions on the Harvie Road Crossing project, please contact Ralph Scheunemann at extension 4782 or email at Ralph.Scheunemann@barrie.ca or Stew Patterson at extension 4481 or email Stew.Patterson@barrie.ca or Todd Comfort at extension 4458 or email Todd.Comfort@barrie.ca.