



Culvert Replacements on Highway 101

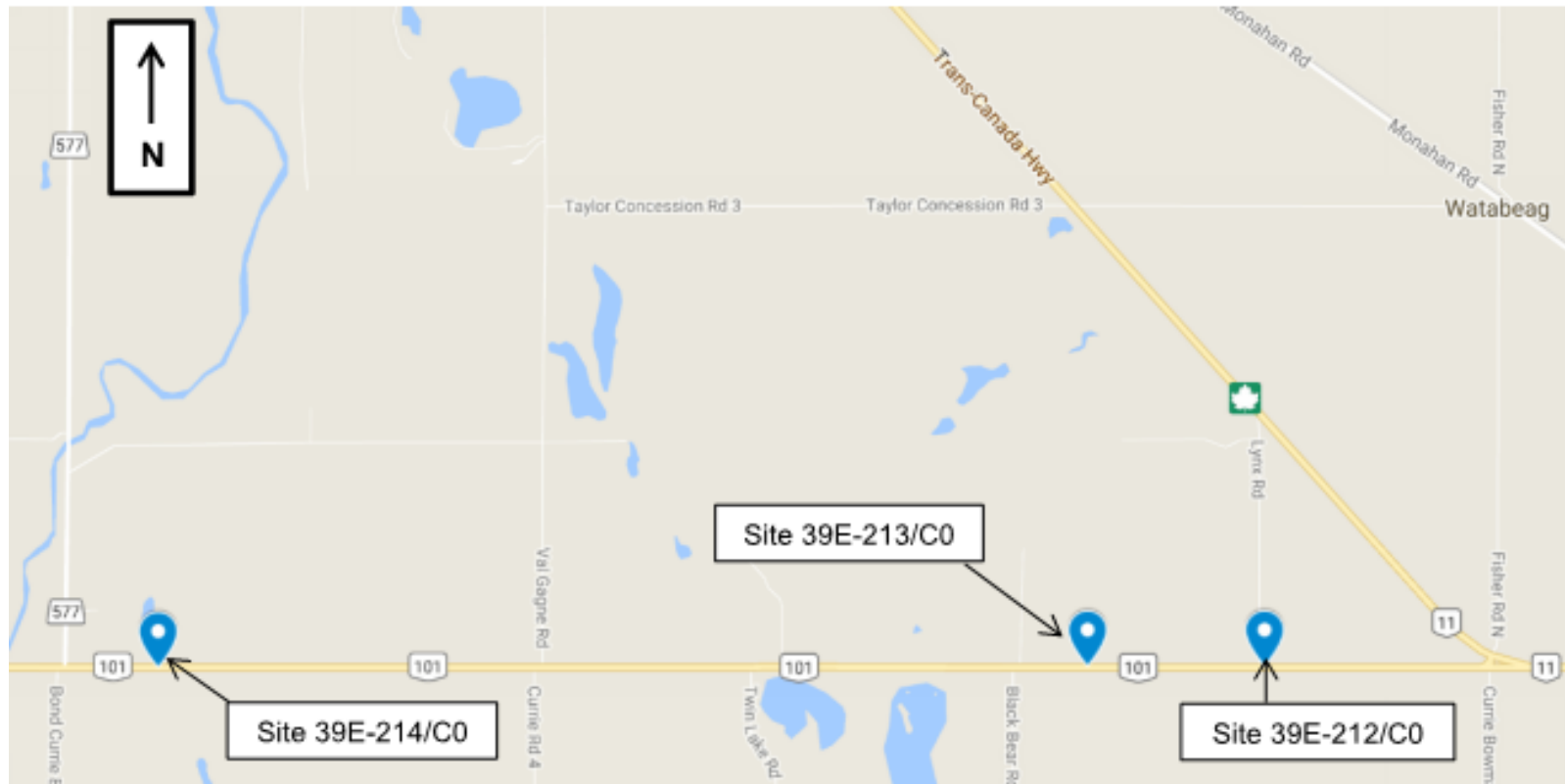
GWP 5165-12-00

Council Presentation

January 12, 2021

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Culvert Replacements on Highway 101



KEY PLAN

- Site No. 39E-212/C0: Anthony Creek Culvert
- Site No. 39E-213/C0: Unnamed Creek Culvert
- Site No. 39E-214/C0: Shillington Creek Culvert

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Project Description

- MTO has retained WSP to undertake the Detail Design and Class Environmental Assessment Study for the Replacement of three structural culverts on Highway 101 within the Township of Black River-Matheson.
- The study is following the approved environmental planning process for Group 'C' projects under the Class EA for Provincial Transportation Facilities (2000).
- Group 'C' projects are considered approved, subject to compliance with the Class EA. The location of the sites is shown on the attached key plan.

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Replacement Alternatives Considered:

- Construct new culvert at offset alignment with temporary widening of Highway 101;
- Construct new culvert at offset alignment with rectangular cofferdams (retaining walls),
- Construct new culvert at offset alignment with single line of roadway protection (retaining walls),
- All above with 1-lane, 2-way detours controlled by temporary traffic signals,
- New Culvert with Trenchless Installation (Jack and Bore type)
- Full Road Closure of Highway 101

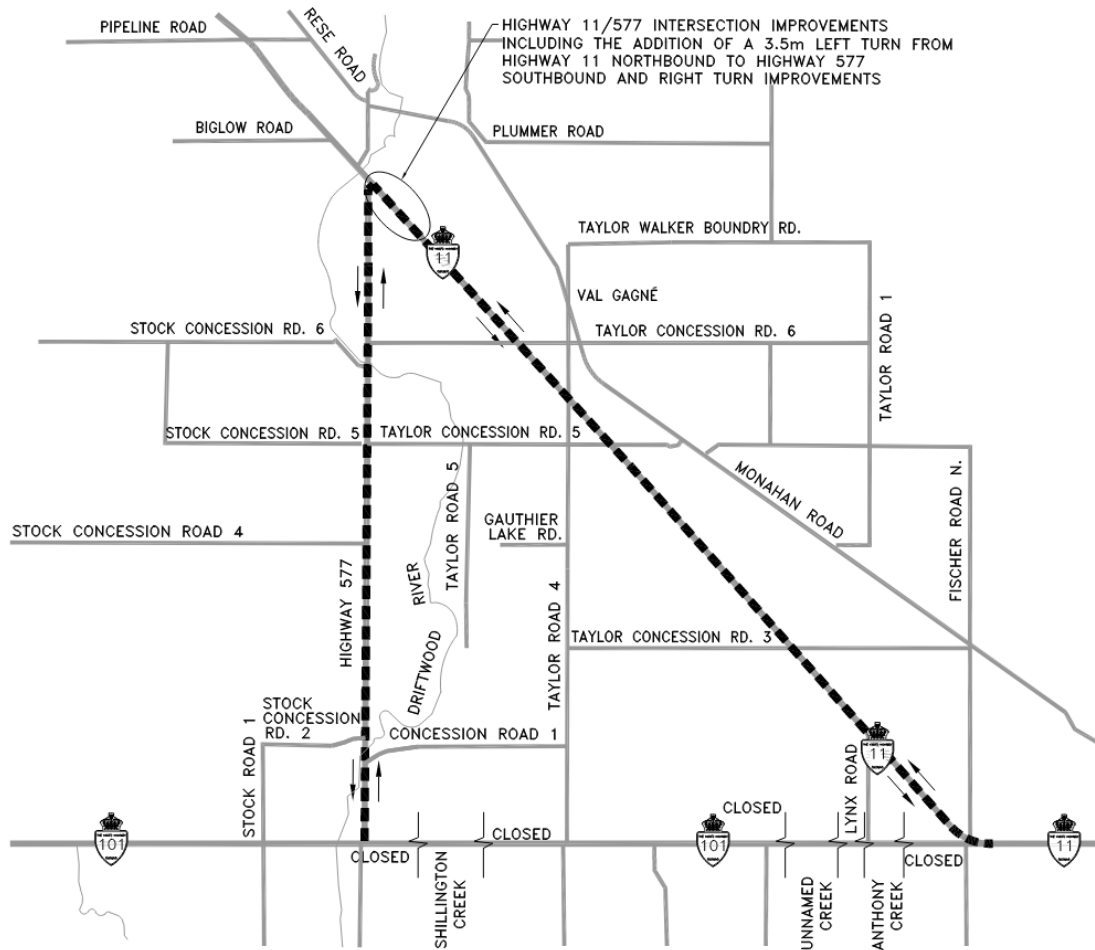
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Preferred Alternative Full Road Closure is preferred

- The full road closures will expedite construction, has the lowest construction cost and should improve the quality of the work as construction activities are not restricted.
- With a full road closure to allow construction at all sites, the detour route on Hwy 11 and 577 will be in place for a lesser overall\combined duration.

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Preferred Alternative



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Consultation with stakeholders

- Fire department
- Emergency services
- OPP
- School boards transportation service officer
- None have expressed any significant concerns for the full road closure.

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Full Road Closure Details

- The road closure would be completed in 2 separate occurrences; at Unnamed and Shillington creek and then at Anthony Creek.
- The posted detour route would be along provincial highways and would be ~an additional 16km out of way travel and ~15 min of additional travel time.
- Shorter routes via local roads would be available but for local residents only,
- The total full closure of Highway 101 is anticipated to be 12 weeks (i.e. ~ 3 months),

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Full Road Closure Details (cont'd)

- A full closure of Lynx Road at Highway 101 will also be required for approximately 2 months.
- The full closures are anticipated to occur in 2022.
- The proposed works will also include pavement repairs along Highway 577, intersection improvements at Highway 11/577 which include a left turn lane and also intersection improvements at Highway 101/577.
- A notice will be delivered to potentially affected residents and businesses within the study area to inform them directly of the closures. This notice will also be published in the Iroquois Falls Enterprise local newspaper.

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Next Steps by WSP \ MTO

- Completion of Detail Design
- EA Process
- Utility Relocation
- Property Acquisition

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SCHEDULE

- Complete detail design 2021
- Anticipated Contract Award in Early 2022
- Anticipated Construction in 2022

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Questions / Comments?