Goreway Drive Capacity Review Assessment Table (Between 170m North of Humberwest Parkway and Cottrelle Blvd – Approximately 2.1 km)

Revised: October 28, 2020

Assumptions: Scope of project for Goreway Drive between 170m North of Humberwest Parkway and Cottrelle Boulevard are as follows: (170m N of Humberwest Parkway to Yorkland Boulevard - 4 lanes widening/ Yorkland Boulevard to Cottrelle Boulevard is under review). Subject to future monitoring, staff would consider the option of dead end Goreway Drive south of Cottrelle Boulevard. This option require amendment to an already approved Class Environmental Assessment, additional technical studies, extensive public and stakeholder consultation to assess the impact. Staff would report back to Council for approval if this is a feasible option to proceed with.

OPTION	RECOMMENDATION	ASSUMPTIONS	SCHEDULE	COSTS (Full road segment)	BENEFITS	RISKS AND CHALLENGES	NOTES
 Widen from 2 lanes rural to 4 lanes urban as per the Transportation Master Plan (TMP) & Environmental Assessment (EA): 3.5m curb lane; 3.5m curb lane; 3.3m passing lane; 3.3m turning lanes; 5m center turning left turn lanes; 3 m MUP both sides; 1 m concrete splash pad; 2 m -5.5m wide Boulevard; Widen and fill the valley approximately 6 m for the widened portion; Grade to be raised approximately 2 m to mitigate flood; Fence to prevent deer crossing; Rehabilitate existing structure id#1 in 6-10 years from today; 	 The segment between 170m North of Humberwest Parkway and Cottrelle Boulevard will be 4 lane; Multi-use path (MUP) on both sides; The boulevard to accommodate trees, kill strip, MUP and utilities; Fence to prevent deer crossing; Structure id #2 (S of Cottrelle Blvd) are recommended to be replaced; Structure id #1(N of Yorkland) are recommended to be extended or widened; Existing structure id#1 is recommended to be rehabilitated at the same time of widening to save cost as the structure is originally constructed in 1995; 	 Standard Boulevard; Standard Boulevard; No significant development in the area for the long term based on land use; The structure id #1 is in fair to good condition with some area of minor repair needed under the deck. The parapet and railing do not comply to current standard; 	 Design and Permit approval completion – spring 2024; Construction start - spring 2024; Construction completion – end of 2027; 	 Total project approximate cost - \$32.5 million (M) (\$30.875 M DC, \$1.625 M TAX) includes design, CA, construction, property cost, utility relocation cost, structure widening/replacement, preloading with fill in the valley to construct road platform for widening, raise the road to mitigate the 100 year flood, TRCA and MECP compensation 	 Results in full access of right of way (ROW) with Active Transportation (AT) facilities on both sides, landscape on the boulevard; Connects to construction of future recreational trail undertaken by TRCA/City joint project Mitigates flooding from the 100 year storm by raising the existing road approximately 2m high at id#2 structure (S of Cottrelle Boulevard) It is cheaper to rehabilitate the existing structure while widening id#1 	 Road to be closed approximately 6 months during construction Significant utility relocation including overhead hydro approx. \$3.3 M Inconvenience to residents in the area Largest capital expenditure but 95% DC funded Longest time to complete due to preloading of fill in the valley, soil consolidation and compaction Significant impact to environment and living habitat especially red side dace which is endangered species Extensive permits required from Ministry of Environment and Conservation Parks (MECP) & Toronto Region Conservation parks (TRCA) which would have significant cost and time to the project; 	 Significant impact to the environment especially existing wetlands, existing watercourses and Claireville conservation land and regulated area by TRCA/MECP; Significant Capital cost; Significantly high Utility relocation cost;

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 2 - The following are the improvements: Four lane widening between Humberwest and Yorkland and two lanes between Yorkland and Cottrelle (urban) 3.5m curb lane; 3.5m curb lane; 3.3m passing lane; 3.3m turning lanes; 4m centre turning left turn lanes; 3m MUP both sides; 1m concrete splash pads on both sides; 1m -5.5m wide Boulevard; Partially widen and fill the valley approximately 4 m for the widened portion; Grade to be raised approximately 2 m at id#2 watercourse crossing (S of Cottrelle Boulevard); Fence to prevent deer crossing; Rehabilitate existing structure id#1 in 6-10 years from today; 	 The segment between 170m North of Humberwest Parkway and Yorkland Boulevard will be 4 lane; The segment between Yorkland Boulevard and 440m N of Yorkland Boulevard will be 2 lane and centre turning left turn lane; The segment between 440m Yorkland Boulevard and Cottrelle Boulevard will be 2 lane; MUP on both sides; The boulevard to accommodate trees, kill strip, MUP and utilities; Fence is recommended to install deer crossing; Structure id #2 (S of Cottrelle Blvd) are recommended to be replaced; Structure id #1(N of Yorkland) are recommended to be extended or widened; Existing structure id#1 is recommended to be rehabilitated at the same time of widening to save cost as the structure is originally constructed in 1995; 	 Compensation to be agreed with MECP for red side dace (endangered species) impact and TRCA for loss of natural habitat at regulated areas; Standard Boulevard with road platform; 	 Design and Permit approval completion – spring 2024; Construction start - spring 2024; Construction completion – end of 2027; 	 Total project approximate cost - \$26.5 M (\$7 M DC, \$19.5 M TAX) includes design, CA, construction, property cost, utility relocation cost, structure widening/replacement, preloading with fill in the valley to construct road platform for two lane and boulevard to accommodate MUP, utilities and landscape, raise the road to mitigate 100 year flood, TRCA and MECP compensation 	 Lower Capital cost compared to option 1 but 73.5% of the cost is tax; Saves close to \$1 M in utility relocations cost compared to option 1; Connects to future recreational trail construction undertaken by TRCA/City joint project at Goreway Drive; Results in full access ROW with MUP on both sides with landscape on the boulevard; Marginally operating over capacity the analysis concluded that there is no strong inclination to widen this corridor to 4 lanes; Mitigates flooding from 100 year storm by raising the existing road approximately 2m high It is cheaper to rehabilitate the existing structure id#1 while constructing for partial widening to accommodate MUP, utilities and landscape; 	CHALLENGES Road to be closed approximately 3 months during construction;