

DATE September 26, 2016**PROJECT No.** 11-1121-0089**BY EMAIL – PDF****TO** Pierre Dufresne
Tartan Land Corporation**FROM** Troy Skinner, P.Eng.**EMAIL** tskinner@golder.com**SLOPE STABILITY ASSESSMENT
PROPOSED RESIDENTIAL DEVELOPMENT
MAPLE GROVE ROAD
OTTAWA, ONTARIO**

This memo provides additional details regarding the slope stability assessment for this development, in response to comments provided by the City of Ottawa.

Background

The results of Golder Associates' slope stability assessment for this development were previously provided in a memo dated June 8, 2011. Additional details on the assessment were subsequently provided in memos dated December 19, 2011 and April 22, 2014, in response to comments received at that time from the City of Ottawa and the Mississippi Valley Conservation Authority.

This overall development site is located south of Maple Grove Road in Ottawa, Ontario, and extends southerly almost to Hazeldean Road. The property measures approximately 900 by 300 metres in plan dimension.

The assessment discussed in this and the previous memos relates to the stability of the existing slopes along Poole Creek, which flows from southwest to northeast through/along the southeast part of the site.

The most recent City comment below was provided in an email to Tartan Land Corporation on July 27, 2016.

Comment

An updated Slope Stability Assessment Technical Memorandum is required in support of the Zoning Amendment development application to rezone lands from O1 to a residential land use as the subject lands are adjacent to the Poole Creek watercourse. An updated report is required to demonstrate that the Geotechnical Limit of Hazard Lands established in the previous assessment is located outside the area to be rezoned and therefore outside any proposed residential lot arrangement adjacent to the Poole Creek watercourse.

The base draft subdivision plan used in the original Slope Stability Assessment Technical Memorandum provided is not consistent with the approved draft plan and the assessment did not account for the inclusion of developable lands being requested through this Zoning Amendment application. It is acknowledged that the Geotechnical Limit of Hazard Lands will not be the most restrictive setback to establish development limits, but an updated report will provide documentation that there are no issues from a geotechnical slope stability perspective as it relates to this specific development application.



Response

The attached Figure 1 illustrates the Geotechnical Limit of Hazard Lands with respect to the new development layout. As can be seen on Figure 1, the proposed new development layout is located outside the Limit of Hazard Lands and is therefore considered acceptable from a slope stability perspective.

Closure

We trust this memo contains sufficient information for your present requirements. If you have any questions concerning this memo, or if we can be of further service to you on this project, please call us.

Yours truly,

GOLDER ASSOCIATES LTD.



Troy Skinner, P.Eng.
Associate, Senior Geotechnical Engineer

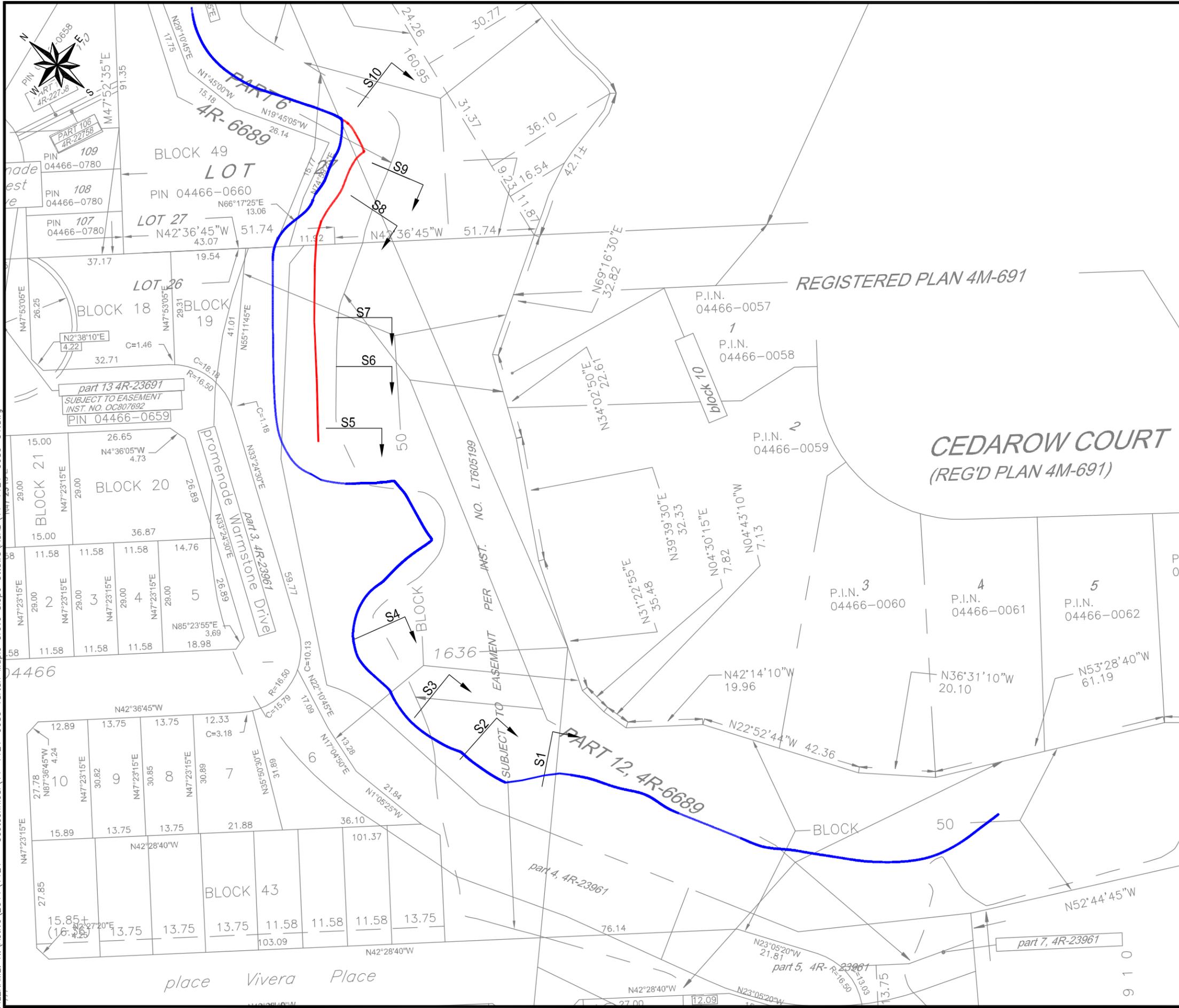


TMS/ESO/ob

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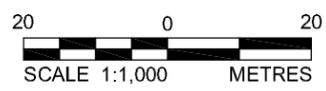
Attachments: Figure 1 – Site Plan

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LEGEND

S1	APPROXIMATE CROSS-SECTION LOCATION
A	LIMIT OF POTENTIAL SLOPE FAILURE SURFACE HAVING 1.5 FACTOR OF SAFETY (i.e., STABLE SLOPE ALLOWANCE)
B	LIMIT OF HAZARDOUS LANDS



REFERENCE
 BASE PLAN PROVIDED IN ELECTRONIC FORMAT BY STANTEC GEOMATICS LTD., PROJECT No. 161613531-132.

NOTE
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDBER ASSOCIATES LTD. MEMORANDUM No. 11-1121-0089

2016-08-09	UPDATED THE BASE INFORMATION	MLF
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PROJECT
 MAPLE GROVE SLOPE STABILITY ASSESSMENT

TITLE
 SITE PLAN



PROJECT No. 11-1121-0089	FILE No. 11-1121-0089-01.dwg
DESIGN JC 2011-05-20	SCALE AS SHOWN REV. 1
CADD ABD/JM 2016-09-26	
CHECK TMS 2016-09-26	
REVIEW TMS 2016-09-26	

FIGURE 1