



7.1(a)

Landscape Architectural Services

HAMILTON FUTURE FUND PROGRESS REPORT No. 5 (FINAL REPORT)

Project Title:	Albion Falls South Viewing Platform and Access	Date Agreement Signed by General Manager of Public Works:	March 28, 2018
Report Prepared By:	Louise Thomassin, Landscape Architect – Project Manager	Expiry Date of HFF Agreement:	March 28, 2020
Date of Report:	June 03, 2020	Reporting Period:	December 2019 - June 2020
General Purpose:	Progress of works funded by HFF (Environmental Impact Statement Report, Geotechnical Investigations; and Archaeology Investigations)		
Status of Works Funded by HFF:	<ol style="list-style-type: none"> 1. Stage 1 and Stage 2 Archaeological Assessments: <u>100% Complete</u> (HFF to fund: \$10,000.00; net total paid: \$15,211.75) 2. Geotechnical Investigations: <u>100% Complete</u> (HFF to fund: \$10,500.00; net total paid to-date: \$13,114.00) 3. Environmental Investigations: <u>100% Complete</u> (HFF to fund: \$22,000.00; net total paid to-date: \$30,055.00) <p>Total amount Funded by HFF: \$42,500.00</p>		

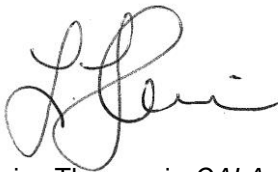
Progress:

Item	Description	Image Ref. #
1.0 Environmental Impact Statement Report		
Comments from Preceding Report (Report Submission 04 – December 02, 2019):		
<ul style="list-style-type: none"> • Spring surveys are complete. Draft report is prepared and will be finalized once 60% design drawings are complete in mid-February 2020 to ensure documents are coordinated. 		
1.1	Environmental Impact Statement (EIS) report is complete; 60% design drawings are complete. EIS report submitted on May 26, 2020 to City of Hamilton Natural Heritage Planner, Hamilton Conservation Authority and the Niagara Escarpment Commission for review. The report includes a tree inventory and vegetative protection plan.	
1.2	Key findings from the EIS report include: <ul style="list-style-type: none"> • The location of the proposed viewed platform and look-out sites within a predominantly disturbed area that formerly had high amounts of foot traffic but is currently fenced off. The community type is classified as a Fresh-Moist Manitoba Maple Deciduous Woodland Type (WODM5- 	1

	<p>3). See image 1.</p> <ul style="list-style-type: none"> • Most species within the project area are classified as locally common. Three species are considered locally rare, they are: Butterfly Milkweed (believed to be planted), Butternut (see point below) and Fragrant Sumac (believed to be planted). • One Butternut tree was located within the project area and is classified as a Category 1 non-retainable due to severity of the disease. A Butternut Health Assessment Report was submitted to the Ministry of the Environment, Conservation and Parks (MECP) Species at Risk Branch. The MECP confirmed receipt of the report May 11, 2020 and granted permission to remove/ harm the tree 30 days after submission of report should it be required. It is anticipated that the Butternut Tree will be harmed during construction due to its proximity to the future boardwalk, see image 2. • It was noted in the report that the probability of species at risk (plants, birds, mammals, reptiles and amphibians, and invertebrates) is none/ low for twenty-three (23) of the twenty-eight (28) species classified as at risk in Ontario. There were five species where the probability was moderate, however none of the species were noted during the field observation to frequent the project area other than the Butternut Tree noted above. • Potential for seasonal concentration areas of animals was investigated and occurrence for most species within the project area is null. The species that were candidates for seasonal occurrence are turtles and snakes, however the construction of the boardwalk and viewing platform should not impact their habitat. 	2
1.3	<p>Key recommendations from the EIS report include:</p> <ul style="list-style-type: none"> • Avoidance and mitigation measures are provided to protect the natural heritage system and species that frequent or may pass through the site. • Erosion and sedimentation control measures and equipment storage recommendations are provided e.g. where and where not to store equipment, distance from waterbodies, sediment control measure locations such as silt socks, limit of artificial light, prevention measures to ensure new invasive species are not introduced to the site etc. • Stabilization measures post-construction are recommended and include re-seeding and replanting. Part of the strategy is the removal of certain invasive species that are dominating sections of the understory. The species to be replanted shall be native and it is recommended that smaller root balls be planted to avoid impacts to the existing slopes and disturbing the existing root systems of trees. 	
<p>2.0 Geotechnical Investigations</p>		
<p>Comments from Preceding Report (Report Submission 04 – December 02, 2019):</p> <ul style="list-style-type: none"> • Report complete. Recommendations from geotechnical report, such as pier foundation setback from slope face and construction methods, are incorporated in design of viewing platform and elevated boardwalk. 		

<ul style="list-style-type: none"> The layout of the boardwalk and platform are provided in image 1 and a sketch-up model of the platform is provided in image 2. Note: the sketch-up model is a visual representation only; detailed design of all elements is not yet final e.g. railing design, colour selection of steel. 		
2.1	N/A	
3.0 Archaeology Investigations		
Comments from Preceding Report (Report Submission 04 – December 02, 2019):		
<ul style="list-style-type: none"> The Stage 4 Report is accepted as filed with the Ministry of Tourism, Culture and Sport. 		
3.1	N/A	

Regards,

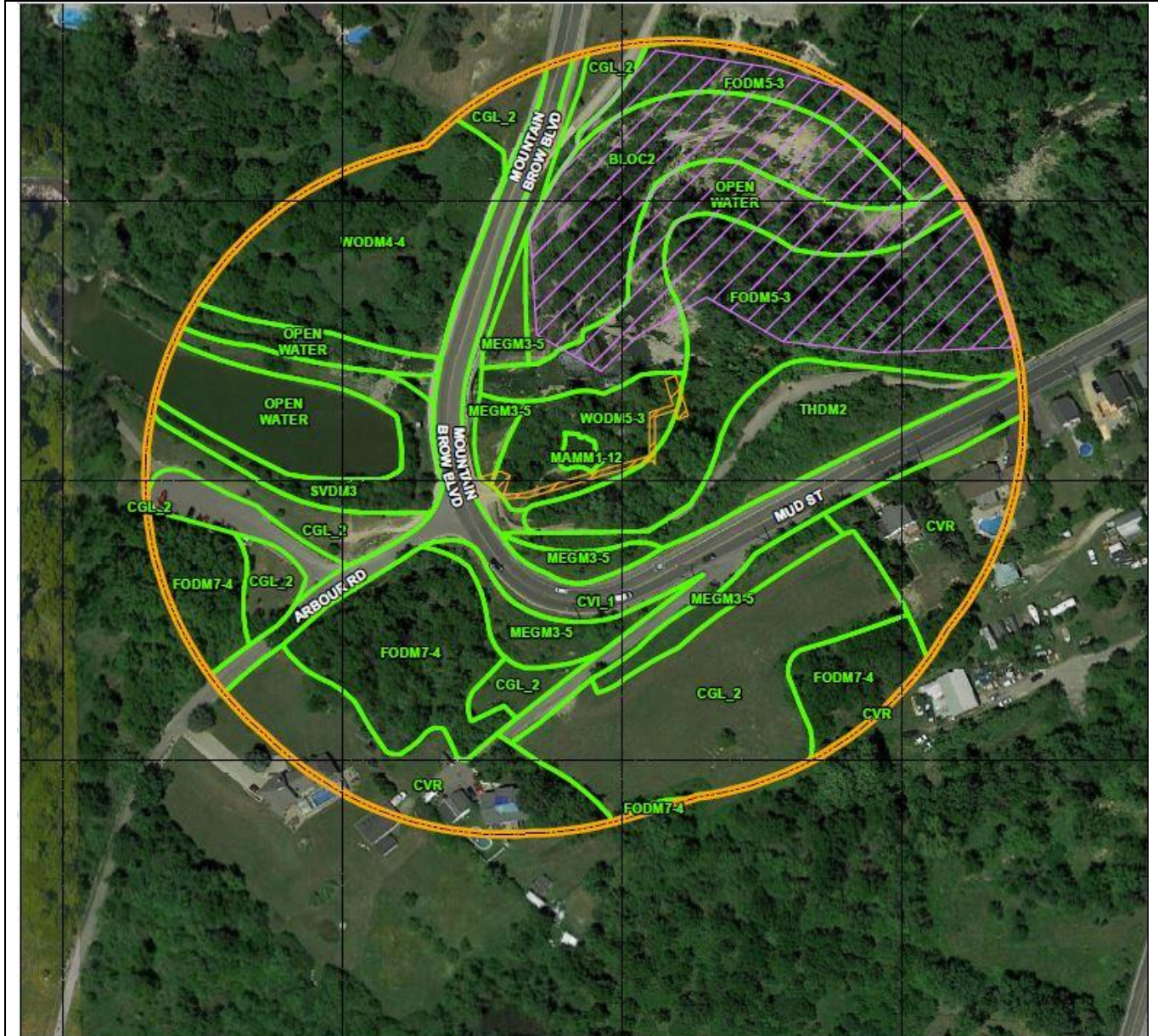


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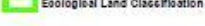
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HAMILTON FUTURE FUND PROGRESS REPORT No. 5 Photo References



LEGEND

-  Area not Accessed
-  Project Site
-  Study Area
-  Ecological Land Classification

Note: the CLOC -1 community is vertical and not illustrated as a polygon on this ELC Figure.

Ecological Land Classification Descriptions

- CGL_1, Parkland
- CVI_1, Transportation
- BLOC2, Calcareous Coarse Mineral Open Bluff Ecoete
- CLOC1, Calcareous Open Cliff Ecoete
- FODM5-3, Dry - Fresh Sugar Maple - Oak Deciduous Forest Type
- FODM7-4, Fresh - Moist Black Walnut Lowland Deciduous Forest Type
- MAMM1-12, Common Reed Graminoid Mineral Meadow Marsh Type
- MEFM1-1, Goldenrod Forb Meadow Type
- MEGM3-5, Smooth Brome Graminoid Meadow Type
- SVDI1-3, Dry - Fresh Deciduous Savanna Ecoete
- THDM2, Dry - Fresh Deciduous Shrub Thicket Ecoete
- WODM4-4, Dry - Fresh Black Walnut Deciduous Woodland Type
- WODM5-3, Fresh - Moist Manitoba Maple Deciduous Woodland Type

NOTES:

- Basedata from MNRF LIO, 2018
- Imagery from Google, 2017

Datum: NAD83
Projection: UTM Zone 17N



ALBION FALLS

Ecological Land Classification

PROJECT N^o: TPB175116 FIGURE: 4



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Image ID: 1

Date: June 2020

Location: Albion Falls Aerial Map

Details:

Ecological Land Classification Mapping. Note that boardwalk and platform are located predominantly within the Fresh-Moist Manitoba Maple Deciduous Woodland Type (WODM5-3) that has been heavily disturbed by foot traffic.



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Image ID: 2

Date: June 2020

Location: Albion Falls Aerial Map

Details:

Map indicating location of Butternut Tree (category 1, non-retainable). Tree is located in proximity to boardwalk and will likely be harmed during construction activities.