LANDFORM CONSERVATION ASSESSMENT REPORT

17791 MOUNT HOPE ROAD

TOWN OF CALEDON REGION OF PEEL

PREPARED FOR:

GIUSEPPE TRIUMBARI

PREPARED BY:

C.F. CROZIER & ASSOCIATES INC. 2800 HIGH POINT DRIVE, SUITE 100 MILTON, ON L9T 6P4

DECEMBER 2019

CFCA FILE NO. 1656-5104

The material in this report reflects best judgment in light of the information available at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. C.F. Crozier & Associates Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.



TOWN OF CALEDON
PLANNING
RECEIVED

Feb 04, 2021 Giuseppe Triumbari
17791 Mount Hope Road, Town of Caledon

Landform Conservation Assessment December 2019

Revision Number	Date	Comments
Rev.0	December 20, 2019	Issued for First Submission



TABLE OF CONTENTS

1.0	I	INTRODUCTION 1	
2.0	:	STUDY AREA	<u>></u>
3.0		OBJECTIVES	<u>)</u>
4.0	- 1	PROPOSED DEVELOPMENT	3
	4.1	Settlement Area3	3
	4.2	Development Strategy4	
5.0		GEOLOGICAL ASSESSMENT4	
6.0	:	SLOPE ASSESSMENT5	5
	6.1	Category 2 Landform Conservation Area5	5
	6.2	Slope Analysis5	
7.0	- 1	NATURAL HERITAGE FEATURES	,
	7.1	Summary of Key Natural Heritage Features	,
	7.1.		
	7.1.	2 Central Treed Area	7
	7.1.3	3 Central Drainage Feature	7
	7.1.		
8.0	3.0 CONCLUSION		

PLANNING RECEIVED

TOWN OF CALEDON

LIST OF APPENDICES

Appendix A: Background Information

Appendix A1: Landform Conservation Areas of the Oak Ridges Moraine Map No. 1

Appendix A2: Oak Ridges Moraine Conservation Plan Land Use Designation Map

Appendix A3: Excerpts from Chapter 7: Secondary Plans and Other Detailed Area Policies, Town

of Caledon Official Plan

Appendix A4: Excerpt from Preliminary Geotechnical Report and Proposed Borehole Location

Plan (December 2018)

Appendix A5: Town of Caledon Official Plan Schedule G

Appendix A6: Existing & Proposed Drainage Plans

Appendix A7: Existing Conditions and Proposed Development Figures from the Natural Heritage

Evaluation (December 2019)

Appendix B: Figures

Appendix C: Drawings

LIST OF FIGURES

Figure 1: Oak Ridges Moraine Landform Conservation Areas

LIST OF DRAWINGS

DWG 701: Legal Boundary Survey & Air Photo Enlargement

DWG 702: Topographic Map

DWG 703: Slope Analysis Map

DWG 704: Soil and Soil Drainage Classification Map

DWG 705: Surface Hydrology Map

DWG 706: Vegetation and Wildlife Ecology Map

DWG 707: Environmental Summary Map

DWG 708: Draft Subdivision Plan

Project No. 1656-5104

PLANNING RECEIVED

TOWN OF CALEDON

1.0 Introduction

C.F. Crozier & Associates Inc. (Crozier) has been retained by Giuseppe Triumbari to provide engineering services to support the Official Plan Amendment (OPA) process for the proposed estate residential development (Subject Development) located at 17791 Mount Hope Road, Town of Caledon, Region of Peel. As part of this process, a Landform Conservation Assessment is required to demonstrate conformity with the Oak Ridges Moraine Conservation Plan (ORMCP). The development strategy for the Subject Development is outlined in this report to demonstrate that it is in accordance with the Town and ORMCP requirements.

Landform conservation is the protection of the unique visual qualities of the area and environmentally sensitive features. It is an approach that encourages planning, design and construction practices which:

- minimize disruption to landform and landscape
- minimize grading and changes to topography
- encourage clustering development on less sensitive areas of the site

The Subject Development is located in the Oak Ridges Moraine (ORM) and, therefore, is subject to the Town of Caledon's Official Plan (April 2018) and the Oak Ridges Moraine Conservation Act, 2001. Section 6.6.3.1.3 from the Town of Caledon's Official Plan (2018) states that all developments in Caledon are required to conform to the policies of the Oak Ridges Moraine Conservation Plan (ORMCP).

The ORMCP is an ecological plan established by the Ontario Government. It protects the Moraine's ecological and hydrological integrity by providing land use and resource management guidance to ministries, agencies, municipalities, landowners and other stakeholders. The Oak Ridges Moraine encompasses approximately 190,000 hectares of land and water; it has a variety of environmental, geological and hydrological features. The ORMCP requires developments to adopt landform conservation practices to maintain or enhance the ecological integrity of the ORM. Policies of the ORMCP regarding landform conservation are summarized in the ORMCP Technical Paper 4 – Landform Conservation.

Crozier reviewed the following documents as part of this Landform Conservation Assessment:

- Oak Ridges Moraine Conservation Plan (May 2017)
- Oak Ridges Moraine Plan Technical Paper Series, Technical Paper 4 Landform Conservation (2002)
- Oak Ridges Moraine Conservation Plan Land Use Designation Map (2017).
- Town of Caledon Official Plan (April 2018)
- Technical Paper: On the Origin of the Oak Ridges Moraine (Barnet et. Al, 1998)
- The Caledon-Guelph Outwash, Ontario Canada: Its Origin, Deposits and Economics (Lesley Anne Hymers, April 2001)
- Region of Peel Official Plan Schedule A (November 2013)

PLANNING RECEIVED

TOWN OF CALEDON

Crozier has also reviewed several documents supporting the proposed estate residential development. These documents include:

- Summary of Key Natural Heritage Features from the Natural Heritage Evaluation (Beacon Environmental, December 2019)
 - o Figure 2: Existing Conditions
 - o Figure 3: Proposed Development
- Draft Geotechnical Report (Sirati & Partners, December 2018)
- Existing and Proposed Drainage Plans (Masongsong Associates, October 2019)

The natural heritage features, borehole locations and existing drainage from these documents were included in Crozier's overall environmental mapping package. This mapping package is included in Appendix C.

2.0 Study Area

The Subject Development covers an area of approximately 37 ha and is legally described as part of Lot 28, Concession 8 in the Town of Caledon. The site currently consists of agricultural lands and treed areas. A variety of woodlands and vegetation communities are currently present on site, and a drainage feature crosses through the center of the site. The area around the drainage feature is designated as an Environmental Zone 2 (EZ 2). The Subject Development is located in a residential and agricultural area in the northeast of Caledon, bounded by Mount Hope Road to the west and residential properties in all other directions. The site is within the Palgrave Estate Residential Community and is part of the Countryside Area (Town of Caledon Official Plan, Schedule A, 2008).

The Subject Development is considered a Major Development with Category 2 Landform Characteristics. Category 2 Landform Conservation Area are lands within the Oak Ridges Moraine that have portions of their land surface dominated by steep slopes or complex landform patterns. Therefore, the Subject Development is subject to the policies contained in Section 30 of the ORMCP (2017).

Drawing 702, in Appendix C, illustrates the existing topographic contours and spot elevations of the Subject Development based on field surveys completed on November 4, 2016. The site topography generally consists of flat areas with slopes from 1-5%. Steep slopes extend towards the forested area and a drainage feature is located in the middle of the site. The highest elevation on the subject lands is approximately 304 m at the south-east corner of the site, and the lowest elevation is 292 m located near the center of the site along the drainage feature.

3.0 Objectives

A portion of the Subject Development is located in the Category 2 Landform Conservation Area (Appendix A1). The development application must therefore conform to the requirements of Section 30 of the ORMCP (2017). Section 30(6) of the ORMCP (2017) states that development within a Category 2 Landform Conservation Area requires planning, design and construction practices that will minimize disturbance to landform character. These practices include:

• Maintaining significant landform features such as steep slopes, kames, kettles, ravines and ridges in their natural undisturbed form

RECEIVED

TOWN OF CALEDON **PLANNING**

- Limiting the portion of the net developable area of the site that is disturbed to not more than 50% of the total area of the site
- Limiting the portion of the net developable area of the site that has impervious surfaces to not more than 20% of the total area of the site

This Landform Conservation Assessment outlines the landform conservation of the Subject Development and the conformance with the ORMCP (2017) and the Town of Caledon's criteria. The environmental mapping, included in Appendix C, has been prepared according to Section 30(8) of the ORMCP (2017). The mapping outlines the following:

- Elevation contours in enough detail to show the basic topographic character of the site
- Analysis of the site by slope type;
- Significant landform features including kames, kettles, ravines and ridges
- All water bodies including intermittent streams and ponds

4.0 **Proposed Development**

The Subject Development is located in the Palgrave Estates Residential Community which is a part of the Countryside Area of the ORMCP. Within the Countryside Areas, the ORMCP delineates rural settlements, which are established communities that are identified in official plans. As seen in the ORMCP Land Use Designation Map (Appendix A2), this land designation provides an area of transition between the Natural Core Areas and Natural Linkage Areas with Settlement Areas of the Oak Ridges Moraine.

The Town of Caledon recognizes the Palgrave Estates Residential Community as a settlement area, and policies governing development have been outlined in the Town's Official Plan (2018). This indicates that the location of the Subject Development is suitable for new residential development. The Subject Development and development strategy are described in the following subsections.

4.1 **Settlement Area**

The Subject Development is situated within the Oak Ridges Moraine Physiographic Region and is designated as a Settlement Area according to the Oak Ridges Moraine Conservation Plan Land Use Designation Map (2017). In the Town of Caledon's Official Plan Schedule G, the Subject Development is designated as a Policy Area 3 within the Palgrave Estate Residential Community (Appendix A5).

Settlement Areas focus and contain urban growth, reflecting the communities planned by the municipality while minimizing the impact of development on the ecological functions and hydrological features of Oak Ridges Moraine. These areas can be used for urban uses and development if they are set out in official plans by the municipality. Section 30(13) of the ORMCP (2017) states that with respect to Settlement Area designated lands, the approval authority shall consider the importance of adopting planning, design and construction practices that will keep disturbance to landform character to a minimum including development applications in landform conservations areas (Category 1 or 2).

As described in Section 5.3.2 of the Town's Official Plan (2018), in order to provide a variety of housing types and living styles within Caledon, the Palgrave Estate Residential Community has been outlined as Rural Estate Residential Development. Rural estate residential plans of subdivisions, other than those shown on the Town's Land Use Plan (Schedule A), Rural Estate Residential Areas (Schedule F), or in the Palgrave Estate Residential Community are not permitted.

RECEIVED

Feb 04, 2021 Giuseppe Triumbari

TOWN OF CALEDON PLANNING

Section 7.1 of the Town's Official Plan (2018) outlines policies for the orderly development of an estate residential community within a comprehensive environmental planning framework. The Secondary Plan of the Palgrave Estate Residential Community encourages estate residential development that supports and maintains the rural character of the landscape and community. The Secondary Plan also encourages developments to practice the preservation of natural heritage and ecologically significant areas. The proposed development is located within the Palgrave Estate Residential Community and therefore the site is suitable for a potential residential development.

4.2 Development Strategy

The proposed residential plan of the subdivision consists of 29 single detached lots, municipal roads, serviced with municipal watermains and private sanitary sewage treatment services. Due to the size and extent of the Subject Development, it is considered a Major Development within a Category 2 Landform Conservation Area and the appropriate application protocol will be followed as outlined in the ORMCP.

As shown on the current Draft Subdivision Plan (Drawing 708, Appendix C), the proposed plan aims to minimize disruption to the natural heritage and landform features. The Draft Subdivision Plan outlines the right of way, lot sizes, the approximate limit of environmental zoned area (EZ 2), significant woodlands and the respective 30 m setback. The Proposed Drainage Plan (Drawing No. DR2, Masongsong Associates, October 2019) located in Appendix A6, illustrates that the existing drainage patterns for all of the proposed lots will generally be maintained. The Proposed Development Figure from the Natural Heritage Evaluation (Beacon Environmental, December 2019) also outlines areas of proposed reforestation within the proposed lots. These documents demonstrate that the proposed disturbed area is to be limited to road construction areas and in the vicinity of the proposed houses.

5.0 Geological Assessment

The Oak Ridges Moraine is a stratified moraine complex in southern Ontario. It extends from the Niagara Escarpment to beyond Rice Lake and has a lateral extent of approximately 160 km (Barnett et al., 1998). The ORMCP (2017) requires planning, design and construction practices that will ensure protection of the geological or geomorphological attributes for the site.

The Ontario Geological Survey (OGS) data was used to determine the materials which comprise the land in the subject area. The Subject Development is situated on surficial geology consisting of Ice-Contact Stratified Deposits. The surficial deposits overlay shale, limestone, dolostone and siltstone bedrock found below the Oak Ridges Moraine. Ice-Contact Stratified Deposits are composed of sand and gravel, minor silt, clay and till which were deposited in contact with melting glacier ice, such as an esker, a kame, or a kettle. There is a large variation in particle size and sediment structure in these deposits (Hymers, 2011). Review of the surficial geology and borehole logs (Draft Geotechnical Report, Sirati and Partners, 2018) indicates that the site consists of permeable sediments with sand sediments being the most abundant.

There are steep slopes (+15%) around the limits of the EZ 2 area; these slopes are identified as a significant landform feature. The Environmental Summary Map (Drawing 707, Appendix C), depicts the limits of the Subject Development and the environmental constraints. Some of the steep sloped areas fall within the significant woodlands designated area and will not be disturbed. The rest of the steep slopes are in proximity to the drainage feature in the middle of the site. No other significant landform features were identified on the subject site from our review of the OGS data and site topography. The Subject Development will therefore maintain the significant geological landform features in their natural undisturbed form.



TOWN OF CALEDON

6.0 Slope Assessment

The Subject Development is partially located in the Category 2 Landform Conservation Area, which are areas typically containing moderately complex landform formation patterns. The ORMCP (2017) discourages the development of lands containing significant landform features including kames, kettles, ravines and steep sloping lands. The following sections will discuss the nature of the Oak Ridges Moraine Category 2 Landform Conservation Area and the slope analysis that was conducted to ensure that the Subject Development minimizes impact to the natural landform.

6.1 Category 2 Landform Conservation Area

According to the ORMCP (2017), the Category 2 Landform Conservation Area designation contains portions of land with complex landform formations. Category 2 Landform Conservation Areas have been identified by the Province as areas having 20% to 50% of the land surface comprised of the following:

- Slopes in excess of 10%
- Distinctive landform features such as ravines, kames and kettles
- A diversity of land slope classes

As shown in Figure 1 (Appendix B), the Subject Development is partially within the Category 2 Landform Conservation Area in the ORMCP Landform Designation map. There are steep slopes near the drainage feature and the forested area; this fraction of the site comprises of slopes in excess of 15% and few areas exceeding 25%. Aside from these steep slopes, the site has little diversity in slope classes.

Section 7.10.5.6.3 of the Town's Official Plan (2018) states that with respect to Oak Ridges Moraine Natural Core Areas, Natural Linkage Areas, and not including estate residential development in the Palgrave Estate Residential Community, a development application within the Category 2 Landform Conservation Area shall identify planning, design and construction practices that will keep disturbance to landform character to a minimum. As stated previously in Section 4.0, the Subject Development is located in the Palgrave Estate Residential Community, and therefore identifying practices which minimize disturbance to landform character is not required. However, it should be noted that the areas containing steep slopes will not be developed and therefore significant landform features of the site will be protected.

6.2 Slope Analysis

Section 30(6)(a) of the ORMCP (2017) requires applications for development in a landform conservation area (Category 2) to identify the planning, design and construction practices that will maintain significant landform features such as steep slopes, kames, kettles, ravines and ridges in their natural disturbed forms. Major developments require an analysis of the site by slope type.

Topographic contour data was used to conduct a topographic surface analysis producing maps displaying 1.0 m contours, slope percentages and a slope map illustrating the existing topography of the Subject Development. The Slope Analysis Map is located in Appendix C, Drawing 703. The slopes shown on the Slope Analysis Map were classified into percent categories as outlined in Section 30(8) of the ORMCP (0-2%, 2-5%, 5-15%, 15-25%, and greater than 25%). As shown on Drawing 703 in Appendix C, slopes exceeding 15% are highlighted in orange and yellow indicating where steep sloped areas are located.

TOWN OF CALEDON PLANNING

17791 Mount Hope Road, Town of Caledon

Generally, the land slopes in towards the center of the site towards the drainage feature and forested area. The majority of the site consists of land with slopes less than 15%; however, the area near the drainage feature includes slopes greater than 15%. Approximately 14% of the site consists of slopes greater than 10%. Drawing 707, the Environmental Summary Map, demonstrates that majority of the steep sloped areas lie within natural heritage feature areas.

As seen in the Proposed Drainage Plan (Drawing No. DR2, Masongsong Associates, October 2019) located in Appendix A6, the structural envelopes are located outside of the steep sloped areas. Therefore, the Subject Development will maintain the significant landform features on site and conforms to the requirements of the Town and the ORMCP.

7.0 Natural Heritage Features

The ORMCP (2017) requires that land with key natural heritage features and hydrologically sensitive features, including minimum vegetation protection zones, be protected from development and rehabilitated as necessary. Furthermore, Section 7.1.9.1 (b) of the Town of Caledon's Official Plan (2018) states that EZ 2 areas include the following characteristics:

- Areas with a high ground water table
- Areas of seasonal flooding and natural depressions which perform natural run-off, detention and groundwater recharge functions
- Small hedgerows and strips of natural vegetation

Appendix A3 contains an excerpt of Section 7.1.9 (Environmental Policies) from the Town's Official Plan (2018).

Sirati & Partners prepared a Draft Report Preliminary Geotechnical Investigation for the Subject Development in December 2018 to obtain information about the subsurface conditions. As seen in the borehole location plan (Appendix A4), a total of ten borehole were drilled on site in October 2018 with depths ranging from 9.2 m to 9.7 m. Monitoring wells were installing in five of the boreholes for long-term groundwater monitoring. Groundwater was not observed in the boreholes over November 2018 (Sirati & Partners, 2018). Relevant excerpts from the Geotechnical Report have been in included in Appendix A4.

According to the Existing Conditions Figure from the Natural Heritage Evaluation (Figure 2, Beacon Environmental, December 2019), the natural heritage features present on the site include:

- Significant woodlands
- Ephemeral drainage feature
- Butternut trees
- Environmental Zone 2 (EZ 2)
- Various ecological communities (ELC)

The Vegetation and Wildlife Ecology Map (Drawing 706, Appendix C) outlines the limits of the natural heritage features located within the subject lands. This drawing demonstrates the limits of the drainage feature, EZ 2, ELC Communities, significant woodlands and their 30 m setback. The current Draft Subdivision Plan (Drawing 707, Appendix C) demonstrates that the proposed developed area is outside the limits of the natural heritage features located on site. Areas with environmental significance on the Subject Development are included within the significant woodlands' setback of 30 m and, therefore, will not be developed.



TOWN OF CALEDON

7.1 Summary of Key Natural Heritage Features

Beacon Environmental prepared a Natural Heritage Evaluation (NHE) for the Subject Property in December 2019 which is a comprehensive assessment of the existing natural features. The NHE assesses the potential impacts associated with the construction and permeant development. It also provides recommendations to minimize negative impact on natural features. The natural heritage features from the Natural Heritage Evaluation (Appendix A7) were included in the drawings in Appendix C. The following section summarizes the key natural heritage features present on site.

7.1.1 Significant Woodland

The NHE (Beacon Environmental, December 2019) states that the large woodland on the perimeter of the subject property qualifies as a Significant Woodland according to the criteria of Technical Paper 7 of the ORMCP (2017) based on size, as it exceeds 4 ha and intersects another key natural heritage feature. This woodland also supports habitat of an endangered tree (Butternut). The significant woodlands are referred to as FOD5 & FOM on the drawings, they cover a total of approximately 11 ha on the subject property and extend into a larger feature off site.

Beacon Environmental surveyed the deciduous woodland along the perimeter of the property, the limit is shown in the Vegetation and Wildlife Ecology Map (Appendix C). This woodland represents the only key natural heritage feature as defined in the ORMCP, identified on the subject property by Nottawasaga Valley Conservation Authority (Beacon Environmental, December 2019). Furthermore, the woodland limit corresponds to the Core Areas of the Greenland System in Schedule A of Region of Peel Official Plan (2013) and the Environmental Zone 1 of the Town's Official Plan (2018).

7.1.2 Central Treed Area

The central feature consists of a treed area with mainly Scots Pine and moderate slopes. The area was not staked as contiguous with the perimeter woodland, and is not considered a significant valley, therefore it is not considered a key natural heritage feature. Furthermore, the NVCA noted that the area is not considered to be part of the significant woodland on the property based on exotic composition and may undergo restoration (Beacon Environmental, December 2019).

7.1.3 <u>Central Drainage Feature</u>

The NHE (Beacon Environmental, December 2019) states that a drainage feature has been mapped through the subject property on the provincial Land Information Ontario (LIO) system. However, field studies completed by Beacon Environmental reveal that there is no feature present at the site as the drainage feature was found to be dry during the time of field investigations. Due to surrounding topography and evidence of erosion, it is believed that this central depression may convey overland flows contributed by rain events. However, there is no indication of an intermittent tributary or headwater drainage feature present (Beacon Environmental, December 2019). The ephemeral drainage feature has been shown in the environmental mapping included in Appendix C.

7.1.4 <u>Threatened and Endangered Species</u>

According to the NHE (Beacon Environmental, 2019) two Butternut trees were identified on the subject property within woodland community. A Butternut Health Assessment (BHA) was not deemed necessary given the distance of these trees from the development envelope.

TOWN OF CALEDON **PLANNING RECEIVED**

8.0 Conclusion

Based on the information provided in this report, we conclude that the proposed residential development aims to minimize disruption to the landform character and the natural heritage lands. The majority of the area that falls within the Oak Ridges Moraine Landform Conservation Areas Category 2, containing slopes greater that 15%, will not be developed. All of the key natural heritage features and steep sloped lands will be protected and preserved because the development will occur outside the limits of the natural heritage and landform features. The Subject Development meets the requirements outlined in the ORMCP (2017) and in the Town of Caledon's Official Plan (2018).

We are therefore proceeding with an OPA application for the residential development at 17791 Mount Hope Road. Should you have any questions or require any further information, please do not hesitate to contact the undersigned.

Sincerely,

C.F. CROZIER & ASSOCIATES INC.

C.F. CROZIER & ASSOCIATES INC.

K.J. Firth, P.Eng.

Partner

Madeline Carter, P.Eng.

Project Engineer

SA/kb

Encl.

I:\1600\1656-Giuseppe Triumbari, Teres Triumbari & Peitro Crupi\5104-17791 Mount Hope Rd\Reports\2019.12.19 Landform Assessment.docx

RECEIVED Feb 04, 2021 Giuseppe Triumbari 17791 Mount Hope Road, Town of Caledon

TOWN OF CALEDON PLANNING

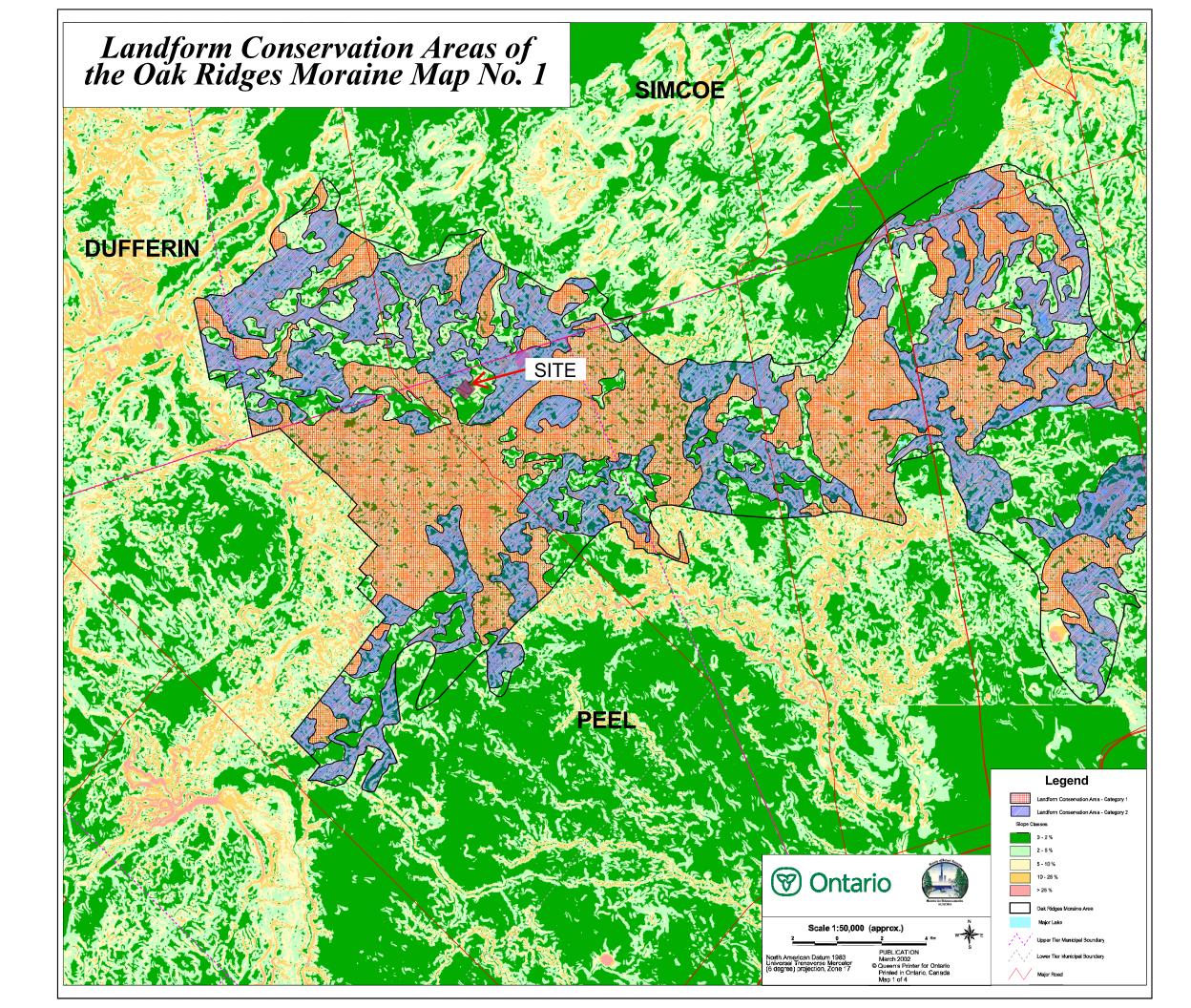
APPENDIX A

Background Information

TOWN OF CALEDON PLANNING RECEIVED Feb 04, 2021 Giuseppe Triumbari

APPENDIX A1

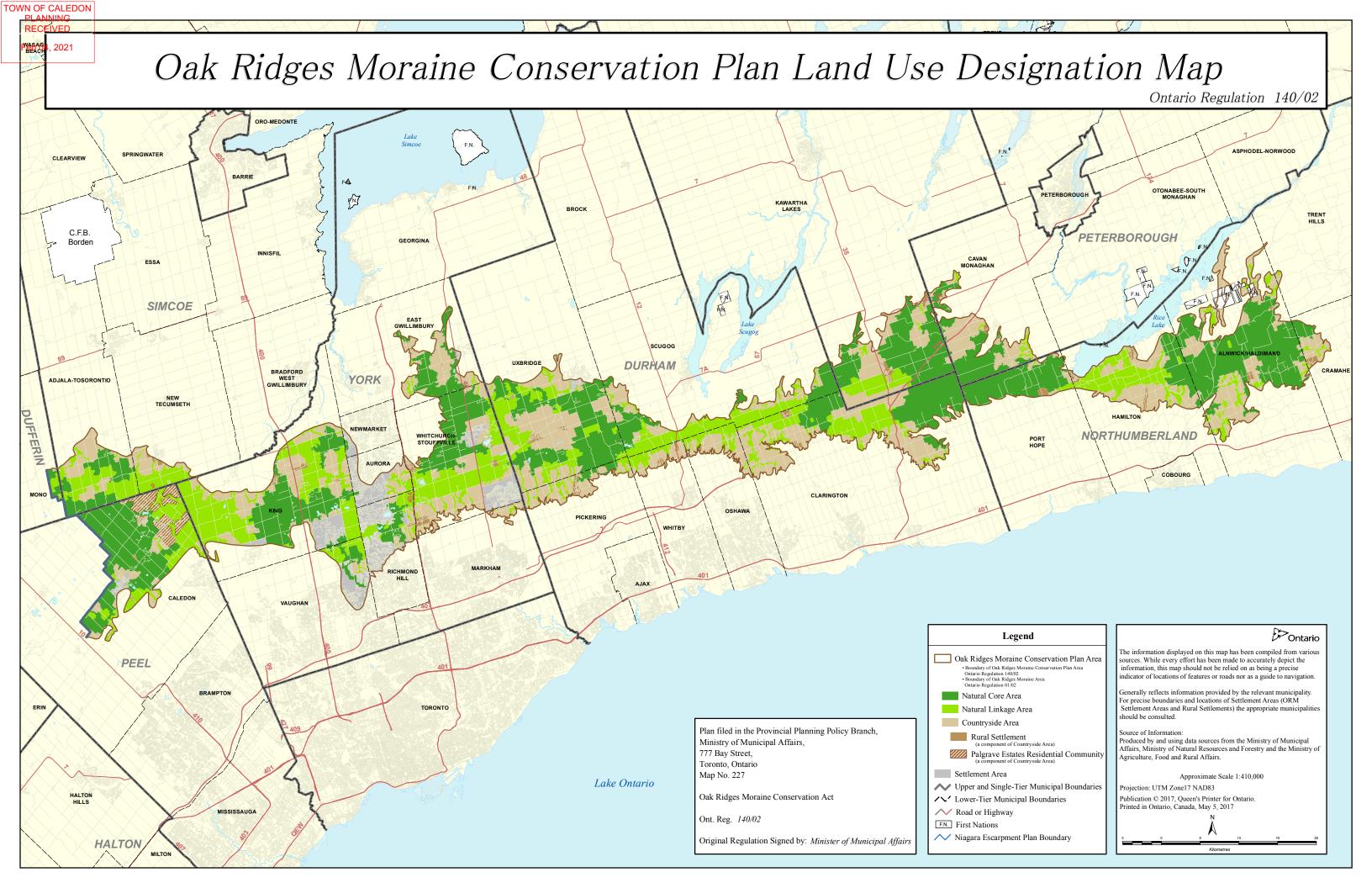
Landform Conservation Areas of the Oak Ridges Moraine Map No. 1



TOWN OF CALEDON
PLANNING
RECEIVED

APPENDIX A2

Oak Ridges Moraine Conservation Plan Land Use Designation Map



PLANNING RECEIVED Feb 04, 2021 Giuseppe Triumbari

TOWN OF CALEDON

APPENDIX A3

Excerpts from Secondary Plans and Other Detailed Area Policies, Town of Caledon Official Plan

5.3 RURAL ESTATE RESIDENTIAL

5.3.1 <u>Introduction</u>

OPA226

It is the intent of this Plan to recognize Rural Estate Residential plans of subdivision within the Town which have been registered, draft approved or those which have legal status as "commenced" applications pursuant to applicable Provincial Legislation and Regulations (refer to Section 6.6.3.4 for additional transition policies). These Rural Estate Residential subdivisions are outlined as Rural Estate Residential Areas on Schedule F. In addition, the Town is providing for future estate residential development within a comprehensive, environmentally responsible policy framework through the establishment of an Estate Residential Community.

5.3.2 General Policies

- 5.3.2.1 The predominant use of land outlined as Rural Estate Residential Area on Schedule F, is single-family dwellings on large lots. Apartments-in-houses as per Section 3.4.3.6 of this Plan, shall be permitted in Rural Estate Residential. Garden Suites as per Section 6.2.13.3 of this Plan, shall be permitted in Rural Estate Residential. The emphasis is on minimum disturbance of the natural setting and environment offering a distinctly "rural" atmosphere to those people not wishing to live in continuously built-up urban areas.
- In order to provide for a variety of housing types and living styles within the Town and recognizing the demand for Rural Estate Residential development, the Palgrave Estate Residential Community has been outlined in Schedule A, Land Use Plan. Development within this Policy Area shall be in accordance with Section 7.1 and Section 7.10 of this Plan and subsections thereof.
- 5.3.2.3 Rural Estate residential plans of subdivision, other than those shown on Schedule A, Land Use Plan, Schedule F, Rural Estate Residential Areas, or in the Palgrave Estate Residential Community, will not be permitted.
- 5.3.2.4 Estate Residential Development may occur on a condominium basis, and shall be subject to all municipal standards.
- 5.3.2.5 Rural Estate Residential uses shall be included in a separate zoning category in the implementing Zoning By-law.
- 5.3.2.6 Lands identified on Schedule F as Rural Estate Residential Areas that are within the ORMCPA or the Greenbelt Protected Countryside designation shall also be subject to the policies of Sections 7.10 and 7.13, as applicable. Refer to Section 6.6.3.3 of this Plan for further policies respecting conflicts between the policies of the PPS and Provincial Plans.

5.3.3 Bolton Golf Course Estate Residential

- 5.3.3.1 The Bolton Golf Course, being part of Lots 18, 19 and 20, Concession 6 (formerly Albion Township), is designated Bolton Golf Course Estate Residential, as shown on Schedule A, Land Use Plan.
- 5.3.3.2 The integration of the existing golf course with an estate residential plan of subdivision is recognized as a compatible and permitted use in this Area.
- 5.3.3.3 In view of Section 5.3.3.2, the golf course fairways may encroach upon the rear portions of estate residential lots, by means of easement or other acceptable manner, so as to achieve an integrated land use design between the estate residential subdivision and the golf course. The design of the subdivision will take into account, among other things, acceptable separation or adequate landscape buffering between the Bolton Golf Course Fairway and the Structure Envelopes.
- 5.3.3.4 The nature of fairway encroachment on the rear portion of estate lots shall be registered on title of all created lots in the Bolton Golf Course Estate Residential area and shall specify, among other matters, requirements and responsibilities pertaining to:
 - a) Access to fairways and surrounding grounds by golf course participants during the normal golfing season;
 - b) Maintenance of fairways and surrounding grounds;
 - c) Nuisances associated with the golf course operation; and
 - d) Any other studies, restrictions or requirements deemed appropriate by the Town of Caledon.
- 5.3.3.5 The nature and density of development in the Bolton Golf Course Estate Residential area shall be governed by the following development policies:

5.3.3.5.1 Environmental

- a) A Structure Envelope must be shown for each lot on any proposed plan of subdivision. The Structure Envelope should identify only the optimal area of the lot for structures but should provide ample space for estate residential and accessory uses.
- b) No Structure Envelope will be permitted inside a regional floodline. In addition, no part of a lot inside a regional floodline may be counted in the calculation of net lot area.
- c) No Structure Envelope will be situated such that it interferes with the normal operation and maintenance of the golf course, except for septic tank tile beds which may encroach the golf course where necessary.
- d) Structure Envelopes will generally be restricted to areas with slopes of 10 percent or less. However, Structure Envelopes may include

- areas with an 11-15 percent slope, and occasionally greater than a 15 percent slope, in order to permit the advantageous siting of a house designed for steep slopes. In all cases the Structure Envelope must include a suitable area for a sewage disposal system.
- e) Estate residential development adjacent to watercourse and physiographic formations that collect or discharge groundwater will incorporate any environmental protection measures necessary to ensure the maintenance of high water quality and sufficient quantity of water to the satisfaction of the Town, the Ministry of Natural Resources and Forestry and the appropriate Conservation Authority.
- f) Written approval of the Toronto and Region Conservation Authority will be required to:
 - i) construct any building or structure or permit any building or structure to be constructed in or on a pond or swamp or in any area susceptible to flooding during a regional storm;
 - ii) place or dump fill or permit fill to be placed or dumped in a fill regulated area whether such fill is already located in or upon such area, or brought to or on such area from some other place or places; or,
 - iii) straighten, change, divert or interfere with the existing channel of a river, creek, stream or watercourse, where also requires the approval of the Ministry of Natural Resources and Forestry, pursuant to Section 10 of *The Lakes and Rivers Improvement Act*.

5.3.3.5.2 Heritage

a) An estate residential plan of subdivision for this Area will be circulated to the Town of Caledon Heritage Committee and the Regional Archaeologist of the Ministry of Tourism, Culture and Sport for their comment prior to approval.

5.3.3.5.3 Servicing

- a) Every lot in an estate residential plan of subdivision must be serviced with a private sewage disposal system for the treatment of domestic wastes. Each system must conform to the standards of and be approved by the Ministry of the Environment and Climate Change or its designated agents.
- b) An applicant for an estate residential plan of subdivision will be required to undertake any studies deemed necessary to assess the probability of contamination of wells on nearby properties by septic system leachate or other source of contamination likely to be caused by the proposed development. Based on the results of such studies the applicant may be required to carry out any redesign of remedial works necessary to minimize the probability of contamination.

c) Schedule H, Palgrave Estate Residential Community Water Service Area, establishes water servicing areas for the Palgrave Policy Area identified as Regional Water Service Area and Well Service Area. Schedule H also shows the extent of the existing Regional water supply system. A minor alteration to the boundaries of the Regional Water Service Area to include the Bolton Golf Course Estate Residential, if approved by the Region of Peel, will not require an Amendment to this Plan.

5.3.3.5.4 Transportation

- a) Internal subdivision roads in the Estate Residential Area should follow the topography of the site, and the locations of access points onto Provincial Highways, Regional Arterial and Rural Collector Roads will be co-ordinated by the Town and other authorities having jurisdiction; with the number of such access points being limited.
- b) Access to individual residential lots in the Bolton Golf Course Estate Residential area shall be from internal subdivision roads rather than from higher level roads.
- 5.3.3.6 Notwithstanding Section 5.3.3.5, the maximum number of lots for the Albion Fairways property (being parts of the East Halves of Lots 18, 19 and 20, Concession 6, formerly Albion Township) in the Bolton Golf Course Estate Residential area shall not exceed 75 estate residential lots with a minimum net lot area of 0.6 hectares (1.5 acres). The net lot density shall not exceed 40 units per 100 acre Township Half Lot.
- 5.3.3.7 Application requirements for approval of an estate residential plan of subdivision for the Bolton Golf Course Estate Residential area, shall be the same as those required for estate residential subdivisions in the Palgrave Estate Residential Community. These requirements are listed under Section 7.1.18 of this Plan.
- The Bolton Golf Course Estate Residential area shall also be subject to the policies of Section 7.10. Notwithstanding any other policy of Section 5.3.3, where the policies of Section 7.10 are more restrictive than those contained in Section 5.3.3, the more restrictive policies shall apply.

5.3.4 Reddington Retirement Community

- 5.3.4.1 The Reddington Retirement Community designated on Schedule A in Lots 26 and 27, Concession 6, in the Former Township of Albion, shall consist of:
 - a) A variety of architecturally designed one (1) storey cluster villa buildings, each containing four to six dwelling units to a maximum of 188 units;
 - b) A golf course and a clubhouse accommodating a variety of recreational and social facilities; and,
 - c) Be located on approximately 77 hectares (190 acres).

6.6.3 The Provincial Policy Statement and Provincial Plans

OPA226

To assist the reader of this Plan, this section provides a general summary of the requirements of the Provincial Policy Statement (PPS), Provincial Plans and related *Acts*, with respect to conformity of decisions; interpretation of boundaries, conflicts between policies and transition provisions for planning applications. For further detail, reference should be made to the relevant Provincial Policy, *Act* or Plan, as these are the final authorities on the subject matter. In general, the policies of the PPS, the applicable Provincial Plans, and this Plan must be read in their entirety and not interpreted and applied in isolation.

6.6.3.1 <u>Conformity Requirements</u>

6.6.3.1.1 Provincial Policy Statement

A decision of the Council of a municipality, in respect of the exercise of any authority that affects a planning matter, "shall be consistent with" the PPS. Comments, submissions or advice that affect a planning matter that are provided by the Council of a municipality, "shall be consistent with" the PPS.

6.6.3.1.2 Niagara Escarpment Plan

All development shall conform to the policies and development criteria contained in the Niagara Escarpment Plan. In accordance with the requirements of the *Niagara Escarpment Planning and Development Act*, all amendments to this Plan or implementing Zoning By-law must conform to the Niagara Escarpment Plan.

6.6.3.1.3 Oak Ridges Moraine Conservation Plan

All developments and decisions of the Council of a municipality are required to conform to the policies of the Oak Ridges Moraine Conservation Plan (ORMCP), subject to the transition provisions of the Oak Ridges Moraine Conservation Act and Plan, and any applicable regulations.

6.6.3.1.4 Lake Simcoe Protection Plan

Decisions under the *Planning Act* or the *Condominium Act*, 1998 or decisions related to a "prescribed instrument" are required to conform with the applicable "Designated Policies" in the Plan and have regard to the other applicable policies.

6.6.3.1.5 Greenbelt Plan

The decisions of the Council of a municipality with respect to matters, proceedings or applications made under the *Planning Act* and the *Condominium Act*, 1998, are required to conform to the policies of the Greenbelt Plan, subject to the transition provisions of the *Greenbelt Act* and Plan, and any applicable regulations.

6.6.3.1.6 Growth Plan for the Greater Golden Horseshoe

- 7.1.8.9 Estate residential plans of subdivision will be required to minimize the amount of stormwater draining from the site and adhere to the zero increase in stormwater run-off principle in a manner acceptable to the Town of Caledon and to the Conservation Authority (e.g.: post-development flows will be less than pre-development flows).
- 7.1.8.10 Wherever possible the one hundred (100) year design stormwater run-off will be detained and recharged to the groundwater aquifers or slowly released from the site in an environmentally acceptable manner.
- 7.1.8.11 Solid waste disposal will be carried out by the Region of Peel.
- 7.1.8.12 The Town encourages the Region of Peel to prepare a Master Servicing Strategy for the Palgrave Estate Residential Community which should include, but not necessarily be limited to, a consideration of sewage treatment strategies and the hydrogeological impacts of expanding the Palgrave communal water supply system.
- 7.1.8.13 Policies regarding municipal road and utility standards are contained in Section 7.1.14.3.
- 7.1.8.14 Servicing of estate residential developments shall also conform to the applicable provisions of Section 7.10, and in particular, Sections 7.10.6.6 and 7.10.6.7.

7.1.9 **Environmental Policies**

- 7.1.9.1 Schedule I, Palgrave Estate Residential Community Environmental Zones, establishes the following Environmental Zones based on existing natural features of the area and based on the applicable policies of the Oak Ridges Moraine Conservation Plan:
 - a) Environmental Zone 1 (EZ 1): EZ 1 includes more sensitive biological communities; valley and stream corridors and their associated floodplains; native upland and lowland woodlands; natural waterbodies; Provincially and locally significant wetlands; and, Environmentally Significant/Sensitive Areas (Note: these areas were formally identified as EZ 1, 2 and 3 on Schedule I prior to the adoption of Official Plan Amendment 186). EZ 1 also includes all ORMCP Key Natural Heritage Features and Hydrologically Sensitive Features, and their related Minimum Vegetation Protection Zones.

Explanatory Note:

Where EZ 1 has an overlay hatch, this indicates ORMCP Key Natural Heritage Features and Hydrologically Sensitive Features (using mapping provided by the Province), and their related Minimum Vegetation Protection Zones that extend beyond areas that were formally identified as EZ 1, 2 and 3 on Schedule I prior to the adoption of Official Plan Amendment 186. These hatched areas are subject to Subsection 7.1.9.6.b) below, in addition to all other applicable policies of this Plan.

- b) Environmental Zone 2 (EZ 2): EZ 2 includes areas of high groundwater table (where the water table is usually within 1.5 metres or less of the ground surface); areas of seasonal flooding (not including regulated floodplains); dry swale lowlands and natural depressions which perform natural run-off, detention and groundwater recharge functions; and, smaller hedgerows and strips of native vegetation.
- c) EZ 1 and EZ 2 shall be zoned in a separate classification in the implementing Zoning By-law which conforms to the provisions of this Plan.
- d) If an area contains both EZ 1 and EZ 2 features, it shall be treated as EZ 1 and subject to all provisions applicable to EZ 1.
- 7.1.9.2 The general locations of EZ 1 and EZ 2 are shown on Schedule I, however the individual EZ 1 and EZ 2 features are not shown separately on the Schedule. The specific type(s) of individual EZ 1 and EZ 2 features and refinements to their boundaries shall be determined through detailed studies, such as a Natural Heritage Evaluation and/or Hydrological Evaluation, or the requirements of Section 7.1.18 where applicable.

Minor changes and refinements to EZ 1 and EZ 2 shown generally on Schedule I, based on updated information from the Province or as a result of detailed studies, such as those noted above, will not require an amendment to this Plan. However, where the feature is a wetland, an Area of Natural and Scientific Interest and/or significant portions of the habitat of endangered, rare and threatened species, or their related Minimum Vegetation Protection Zones, proposed refinements to the boundary or the extent of the feature requires formal confirmation from the Province or delegated authority prior to any development.

7.1.9.3 A Structure Envelope must be shown for each lot on any proposed plan of subdivision. The Structure Envelope shall identify the optimal area of the lot for structures and shall provide ample space for estate residential and accessory uses including all associated necessary lot grading. The proposed house and driveway locations and soil absorption area for sewage disposal shall be shown within the structure envelope.

Structure Envelopes will generally be sized in the range of 0.3 hectare (0.74 acres) to 0.5 hectares (1.24 acres). Structure Envelopes slightly outside this range will be discouraged unless site conditions warrant a minor deviation from this range.

- 7.1.9.4 No part of a Structure Envelope will be permitted in EZ 1or in Policy Area
- 7.1.9.5 No part of a Structure Envelope will be permitted in EZ 2 except for short sections of driveways which may cross short sections of EZ 2 if necessary to obtain reasonable access to a lot. Individual lot services will not be

- 7.10.5.5.2 The uses prohibited by Sections 7.10.5.5.1 shall be restricted by the implementing Zoning By-law.
- 7.10.5.6 Landform Conservation Areas
- 7.10.5.6.1 In accordance with Section 30 of the ORMCP, Schedule P-2 of this Plan identifies Landform Conservation Areas Category 1 and Category 2.
- 7.10.5.6.2 With respect to Oak Ridges Moraine Natural Core Areas, Natural Linkage Areas, and Countryside Areas, not including estate residential development in the Palgrave Estate Residential Community, an application for development with respect to land in a landform conservation area (Category 1) shall identify planning, design and construction practices that will keep disturbance to landform character to a minimum, including:
 - a) Maintaining significant landform features such as steep slopes, kames, kettles, ravines and ridges in their natural undisturbed form;
 - b) Limiting the portion of the net developable area of the site that is disturbed to not more than 25 percent of the total area of the site; and,
 - c) Limiting the portion of the net developable area of the site that has impervious surfaces to not more than 15 percent of the total area of the site.
- 7.10.5.6.3 With respect to Oak Ridges Moraine Natural Core Areas, Natural Linkage Areas, and Countryside Areas, not including estate residential development in the Palgrave Estate Residential Community, an application for development with respect to land in a landform conservation area (Category 2) shall identify planning, design and construction practices that will keep disturbance to landform character to a minimum, including:
 - a) Maintaining significant landform features such as steep slopes, kames, kettles, ravines and ridges in their natural undisturbed form:
 - b) Limiting the portion of the net developable area of the site that is disturbed to not more than 50 percent of the total area of the site; and,
 - c) Limiting the portion of the net developable area of the site that has impervious surfaces to not more than 20 percent of the total area of the site.
- 7.10.5.6.4 Section 7.10.5.6.2 and 7.10.5.6.3 do not apply in respect of extractive industrial operations.
- 7.10.5.6.5 With respect to Oak Ridges Moraine Natural Core Areas, Natural Linkage Areas, and Countryside Areas, not including estate residential

TOWN OF CALEDON PLANNING RECEIVED

APPENDIX A4

Excerpt from Preliminary Geotechnical Report and Proposed Borehole Location Plan (December 2018)

Project: SP18-334-10 Palgrave Estates Preliminary Geotechnical Report Proposed Residential Subdivision Mount Hope Road, Caledon, ON

2. FIELD AND LABORATORY WORK

A total of ten (10) boreholes (BH1 through BH10B, see Drawing 1 for location plan) were drilled to depths ranging from 9.2 m to 9.7 m below the existing ground surface (mbgs). The boreholes were drilled with solid stem, continuous flight augers. The drilling of all boreholes was conducted by a drilling sub-contractor under the direction and supervision of SIRATI's senior staff.

The field work was carried out in accordance with ASTM D 1586-11 test method. Samples were retrieved at regular intervals with a 50 mm O.D. split-barrel sampler driven with a hammer weighing 624 N and dropping 760 mm in accordance with the Standard Penetration Test (SPT) method. The samples were logged in the field and returned to SIRATI's laboratory for detailed examination by the project engineer and for laboratory testing.

In addition to visual examination in the laboratory, all soil samples were tested for moisture content. The results of the natural moisture contents are presented in the respective borehole logs. Seven (7) representative soil samples were subjected to grain size and plasticity index analyses. The results of the laboratory tests are presented in the respective logs and in Figures 12, 13, and 14.

Water level observations were made during drilling in the open boreholes, upon completion of the drilling operations and on a subsequent visit on November 1, 2018. Monitoring wells were installed in five (5) boreholes (BH1, BH3, BH6, BH9 and BH10B) for long-term (stabilized) groundwater level monitoring.

The elevations at the borehole locations were surveyed by SIRATI personnel using differential GPS system and varied from 295.67 m to 302.75 m.

3. SITE AND SUBSURFACE CONDITIONS

The borehole location plan is shown on Drawing 1. Notes on soil descriptions are presented on Drawing 1A. The subsurface conditions in the boreholes are presented in the individual borehole logs (Encl. 2 to 11 inclusive). The subsurface conditions in the boreholes are summarized in the following paragraphs.

3.1 SOIL CONDITIONS:

<u>Topsoil</u>: A 300 mm to 450 mm thick surficial layer of topsoil was found at all borehole locations except BH4. The thickness of the topsoil in each borehole is shown in the respective borehole logs. It should be noted that the thickness of the topsoil observed at the borehole locations may not be representative for the entire site and should not be relied on to calculate the amount of topsoil that need to be stripped from the site.

<u>Fill Material</u>: Below the topsoil, where present, a zone of earth fill/disturbed native material was encountered in all boreholes. The fill layer was found extending to depths varying between 0.8 m (BH7) and 3 m (BH6) below the existing ground surface. The fill material mainly consisted of silty sand, sandy silt and sand, with trace to some topsoil inclusion at some borehole locations. The

composition of the weathered/disturbed sand was generally similar to that of the underlying undisturbed native soils (sand). The measured SPT 'N' values in the fill material ranged from 0 to 32 blows, but more commonly between 4 and 8 indicating a very loose to loose compaction state.

<u>Cohesive Layer:</u> A thin cohesive layer of clayey silt was observed locally in BH5, extending from 1.5 m to 2.3 m depth. The measured SPT 'N' values in the clayey silt layer was measured to be 7 blows per 300 mm penetration, indicating a firm consistency. The natural moisture content of the cohesive soil was measured at 20.0%, indicating a very moist condition.

Grain size analysis and Atterberg limits tests of a representative sample from this stratum (B5/SS3) was conducted and the results are presented in Figures 12 and 14, with the following fractions:

Clay: 27%
Silt: 54%
Sand: 17%
Gravel: 2%

<u>Cohesionless Lavers</u>: Cohesionless layers of silt, sandy silt, silty sand, sand, and gravelly sand were encountered in all borehole locations. The native cohesionless layers were encountered at different depths ranging from 0.8 m to 3.0 m below the existing ground surface and extended to the termination depth at all borehole locations.

The SPT "N" values were found to range between 7 to more than 50 blows per 300 mm penetration, indicating a loose to very dense state.

The natural moisture content of the cohesionless soil varied between 2.0% to 20.0%, indicating a moist to wet condition.

Grain size analysis of six (6) representative samples from sand, silt, sandy silt and silty sand (B14/SS5, BH10B/SS8, BH2/SS6, BH3/SS4, BH5/SS8/SS9) were conducted and the results are presented in Figure 12 and 13, with the following fractions:

Clay: 4% to 9% Silt: 1% to 80% Sand: 10% to 93% Gravel: 1% to 7 %

3.2 GROUNDWATER CONDITIONS

During drilling (short-term) all boreholes were observed to be dry. The groundwater level in the monitoring wells was observed to be dry on November 1, 2018 and November 27, 2018.

It should be noted that the groundwater levels can vary and are subject to seasonal fluctuations in response to major weather events.



TOWN OF CALEDON PLANNING RECEIVED

APPENDIX A5

Town of Caledon Official Plan

Notwithstanding any other provisions of this Plan, within lands designated EZ 1 on Schedule I permitted uses shall only include those uses permitted in EPA, in accordance with Section 5.7.3.1.2.

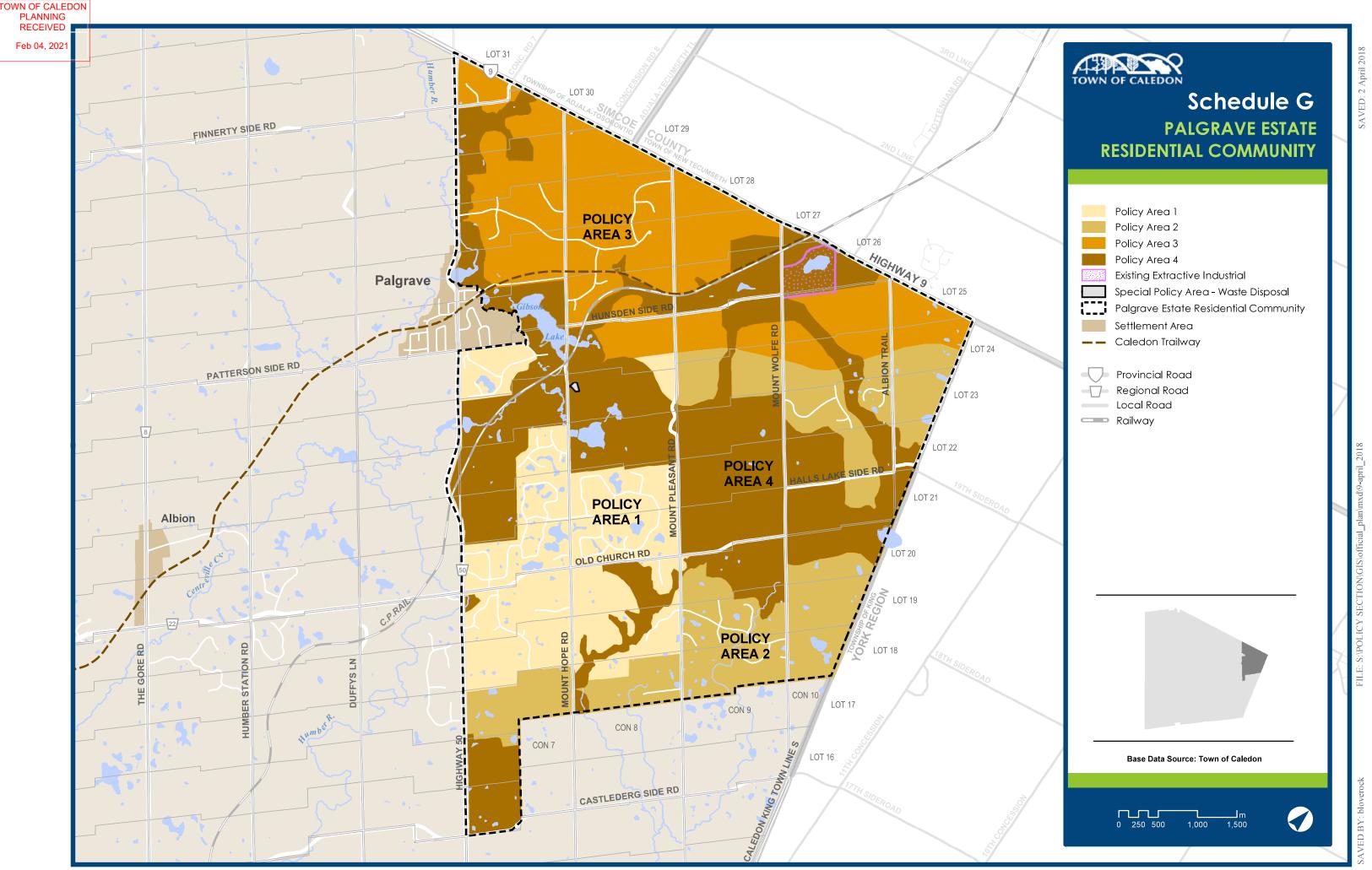
- 7.1.3.5 Over the longer term, the Town may initiate a review of broader community design and development issues within the Palgrave Estate Residential Community. This review could explore, in a comprehensive manner, alternative approaches and forms to community design, standards and development in the area, including a consideration of compatible alternative or mixed-uses. This review should be undertaken through a multistakeholder, community-based process, with a high degree of resident involvement. If appropriate, the process may be integrated or co-ordinated with a number of other longer term initiatives contained in Section 7.1.
- 7.1.3.6 Apartments-in-houses as per Section 3.5.3.10 of this Plan shall be permitted within the Palgrave Estate Residential Community. Garden Suites as per Section 6.2.13.3 of this Plan shall be permitted in the Palgrave Estate Residential Community. Within Policy Area 4, Apartments-in-Houses and Garden Suites shall also be subject to the detailed provisions of Section 7.10, and in particular, Section 7.10.3.10.

7.1.4 **Population**

7.1.4.1 The Town will monitor population increases in the Palgrave Estate Residential Community having regard to Sections 2 and 4 of the Plan.

7.1.5 **Development Pattern**

- 7.1.5.1 Schedule G, Palgrave Estate Residential Community Development Pattern, establishes the following land use areas in the Palgrave Estate Residential Community: Policy Area 1, Policy Area 2, Policy Area 3 and Policy Area 4. It also recognizes existing and committed estate residential plans of subdivision and an existing licencing extractive industrial area.
- 7.1.5.2 Policy Area 1 is the prime area for future estate residential development.
- 7.1.5.3 Policy Areas 2 and 3 are suitable for estate residential development at lower densities and higher minimum net lot sizes than Policy Area 1.
- 7.1.5.4 Policy Area 4 is unsuitable for estate residential development and no density will be allocated to it. Notwithstanding the development pattern depicted on Schedule G, applications that were commenced but not decided upon as of November 17, 2001, in accordance with Section 15 of the *Oak Ridges Moraine Conservation Act, 2001*, shall be considered for approval subject to the provisions prescribed in Section 48 of the Oak Ridges Moraine Conservation Plan, and the policies of Section 7.1 that would have been applicable on November 16, 2001. In the case of conflict between the provisions of the ORMCP and Section 7.1, the more restrictive policies shall apply.
- 7.1.5.5 Policy Areas 1, 2 and 3 correspond to the ORMCP Countryside Area designation on Schedule P, and Policy Area 4 corresponds to the ORMCP

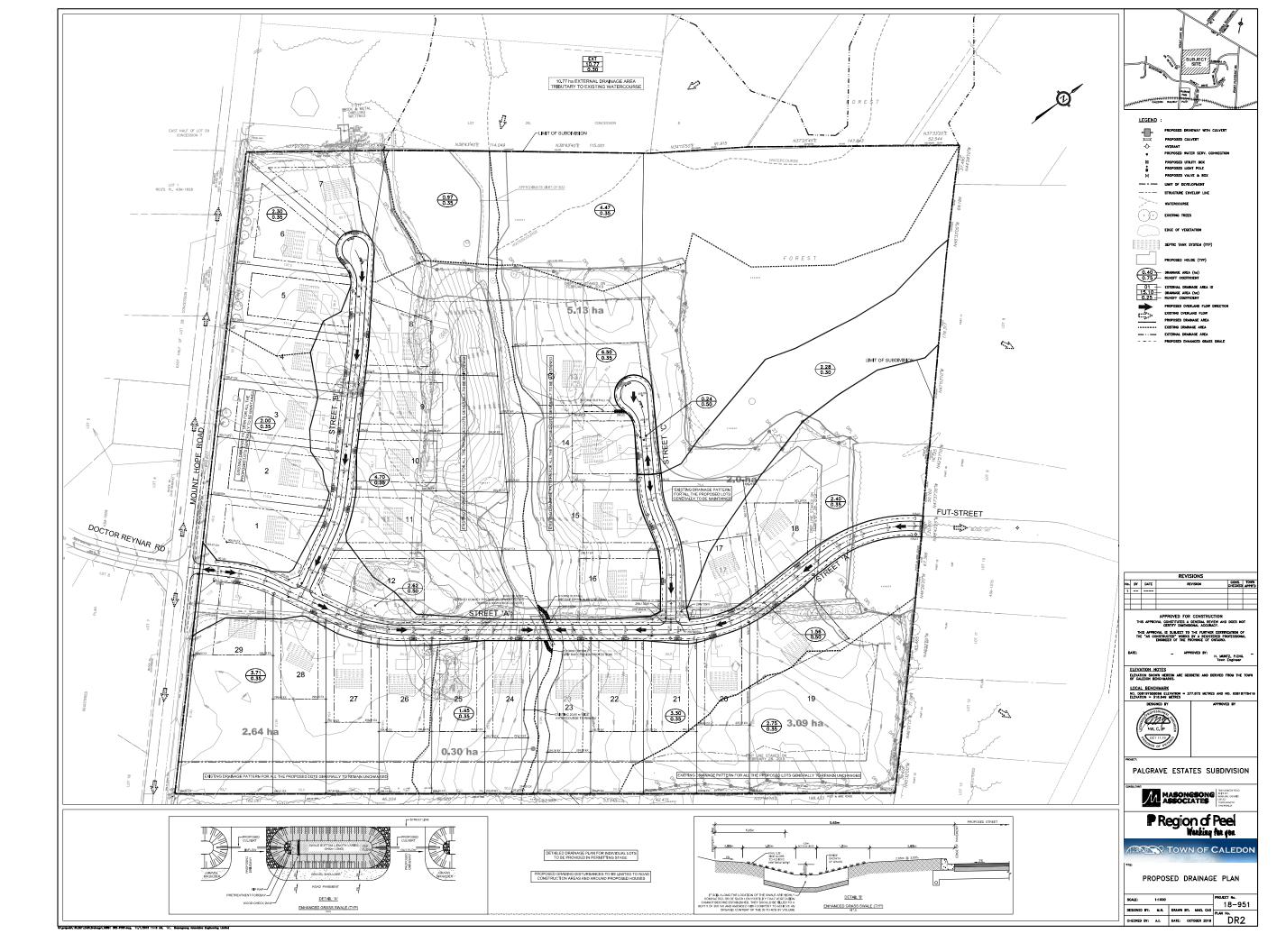




APPENDIX A6

Existing & Proposed Drainage Plans



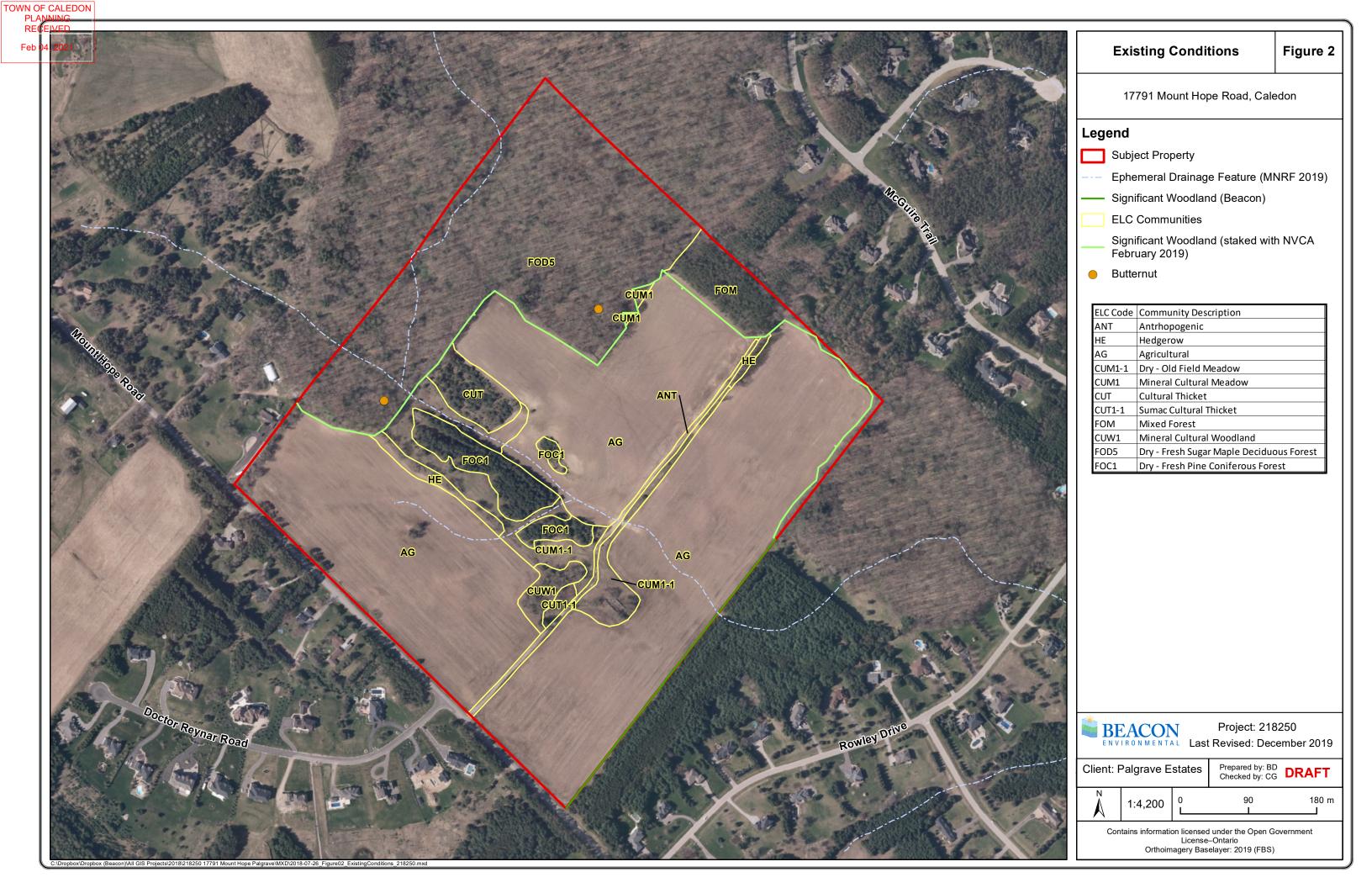


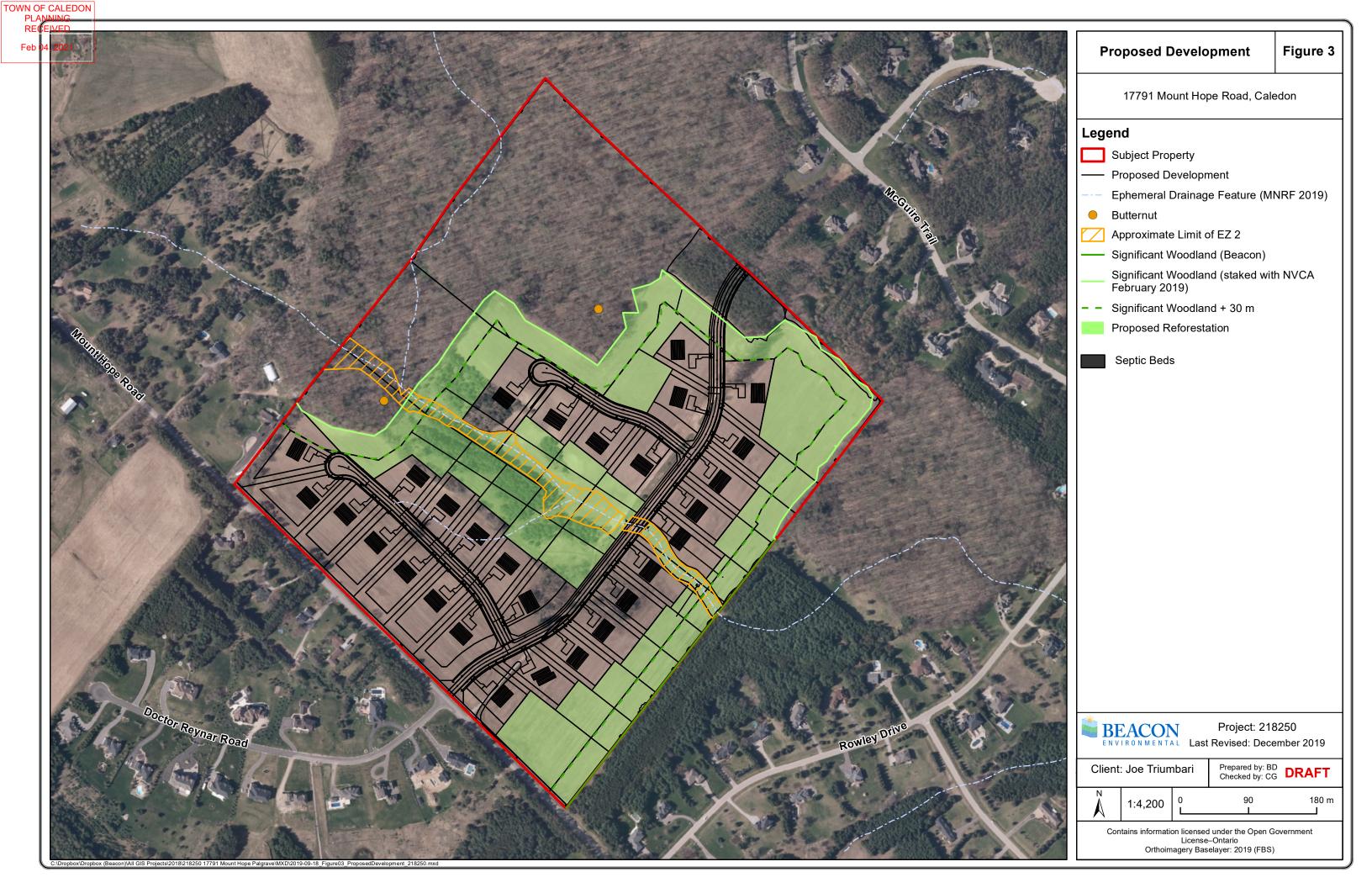
PLANNING RECEIVED Feb 04, 2021 Giuseppe Triumbari

TOWN OF CALEDON

APPENDIX A7

Existing Conditions and Proposed Development Figures from the Natural Heritage Evaluation (December 2019)



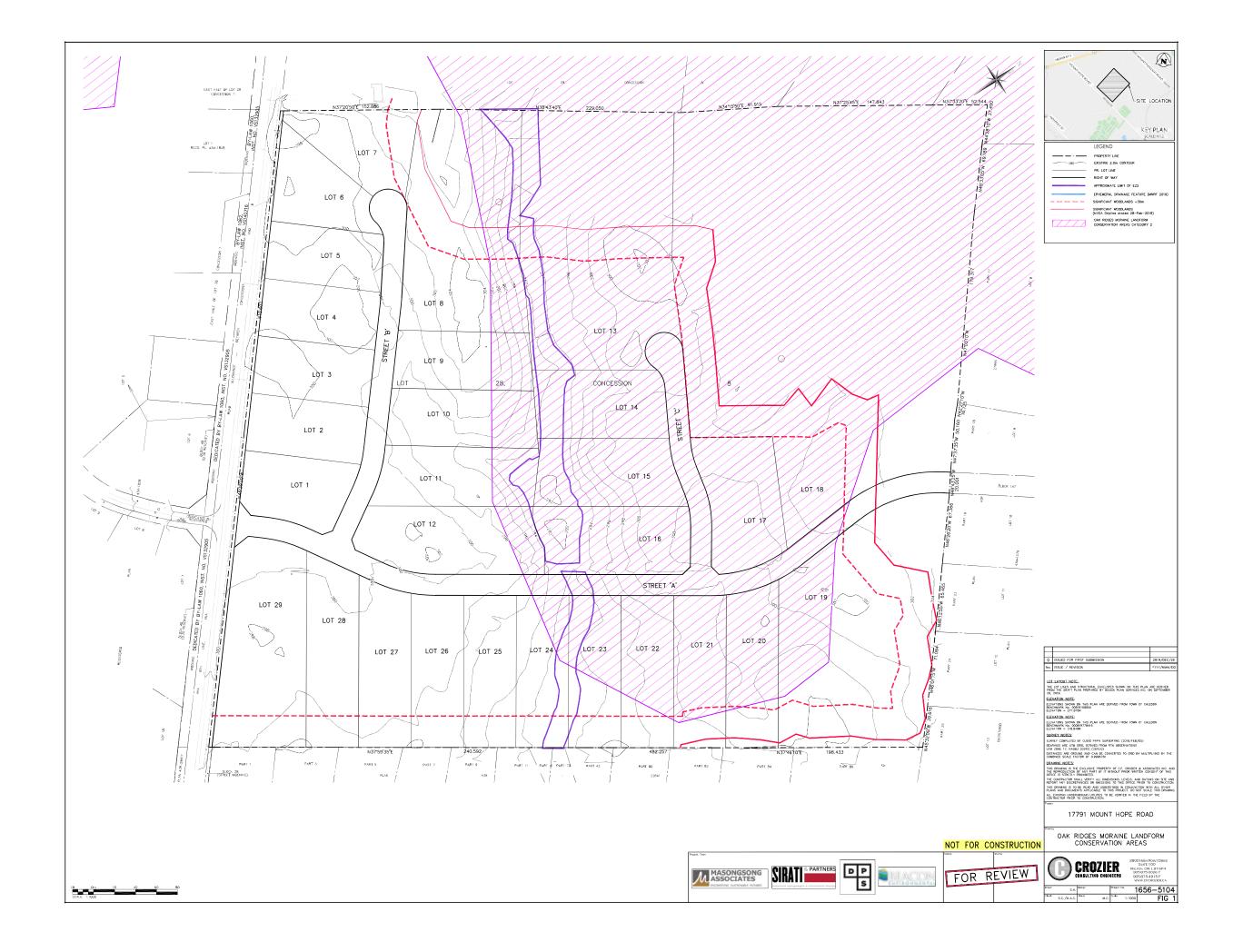


RECEIVED Feb 04, 2021 Giuseppe Triumbari 17791 Mount Hope Road, Town of Caledon

TOWN OF CALEDON **PLANNING**

APPENDIX B

Figures



TOWN OF CALEDON PLANNING RECEIVED

APPENDIX C

Drawings

17791 MOUNT HOPE ROAD

PART OF LOT 28, CONCESSION 8 TOWN OF CALEDON REGION OF PEEL



TOWN OF CALEDON 6311 OLD CHURCH ROAD

CALEDON, ONTARIO L7C 1J6 REGION OF PEEL 10 PEEL CENTRE DRIVE BRAMPTON, ONTARIO L6T 4B9

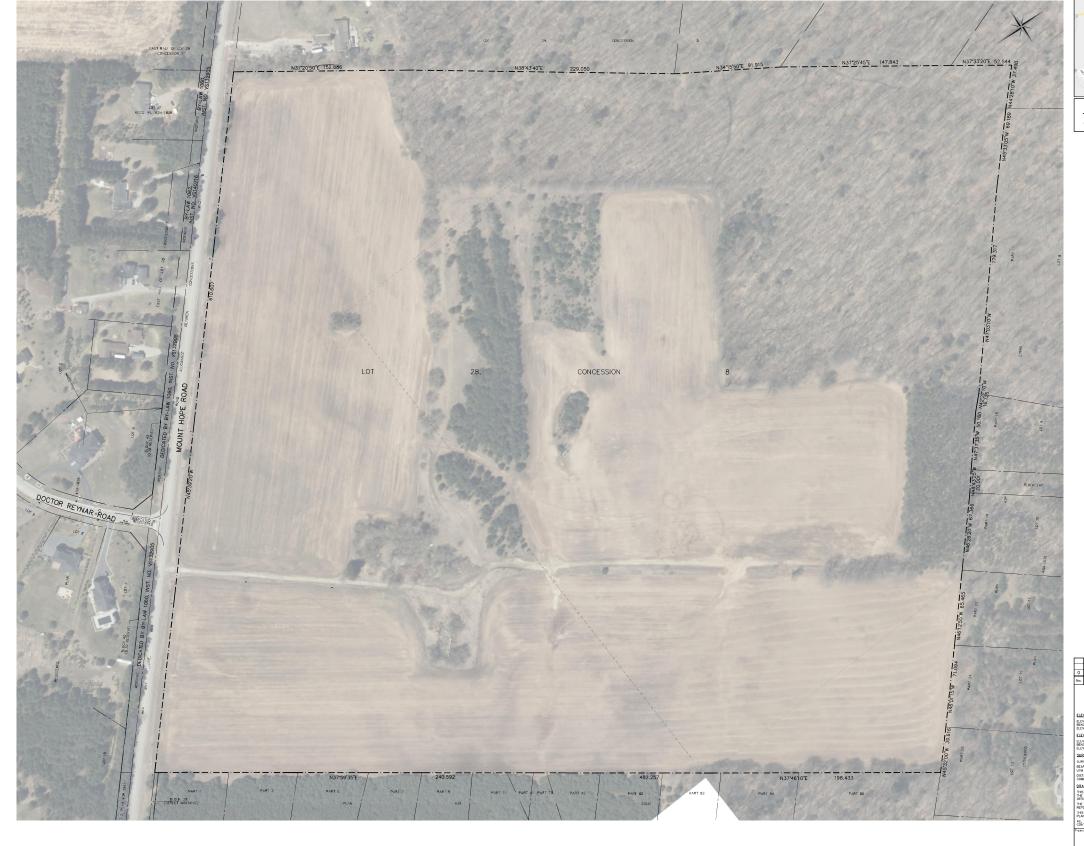
SHEET TITLE 701 LEGAL BOUNDARY SURVEY & AIR PHOTO ENLARGEMENT 702 TOPOGRAPHIC MAP 703 SLOPE ANALYSIS MAP 704 SOIL AND SOIL DRAINAGE CLASSIFICATION MAP 705 SURFACE HYDROLOGY MAP 706 VEGETATION AND WILDLIFE ECOLOGY MAP 707 **ENVIRONMENTAL SUMMARY MAP** 708 DRAFT SUBDIVISION PLAN

DEVELOPER: JOE TRIUMBARI
3 MANSWOOD CRESCENT
BRAMPTON, ONTARIO
L6T 0A3



2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905-875-0026 T 905-875-4915 F WWW.CFCROZIER.CA

PROJECT No.: 1656 - 5104



LICADIEN SOIDE

LICATIONS DEPON ON 11 IS PLAN AND DETRICO FROM 10WH OF CALLDON

ELLINOTORS DEPON ON 11 IS PLAN AND DETRICO FROM 10WH OF CALLDON

ELLINOTORS DEPON ON 11 IS PLAN AND DETRICORD (10 IS PLAN AND DEPON ON 11 IS P

17791 MOUNT HOPE ROAD

LEGAL BOUNDARY SURVEY & AIR PHOTO ENLARGEMENT

FOR REVIEW

NOT FOR CONSTRUCTION

CROZIER
CONSULTING ENGINEERS
CONSULTING ENGINEERS
CONSULTING ENGINEERS
CONSULTING ENGINEERS
CONSULTING ENGINEERS

KEY PLAN

EX. LOT LINE

MASONGSONG
ASSOCIATES

COCKETOR GENEVALE FINANCE

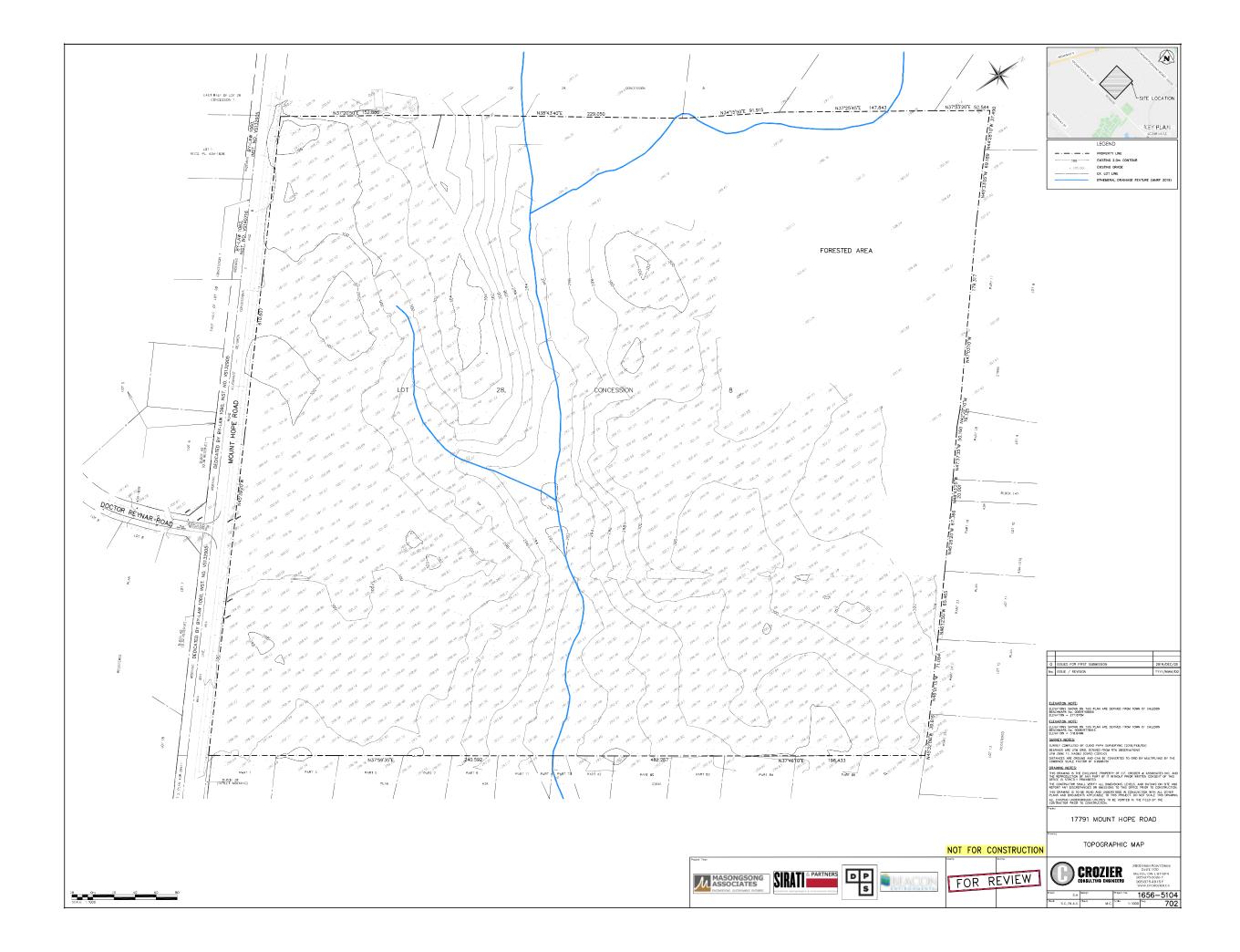
SIRATI & PARTNERS

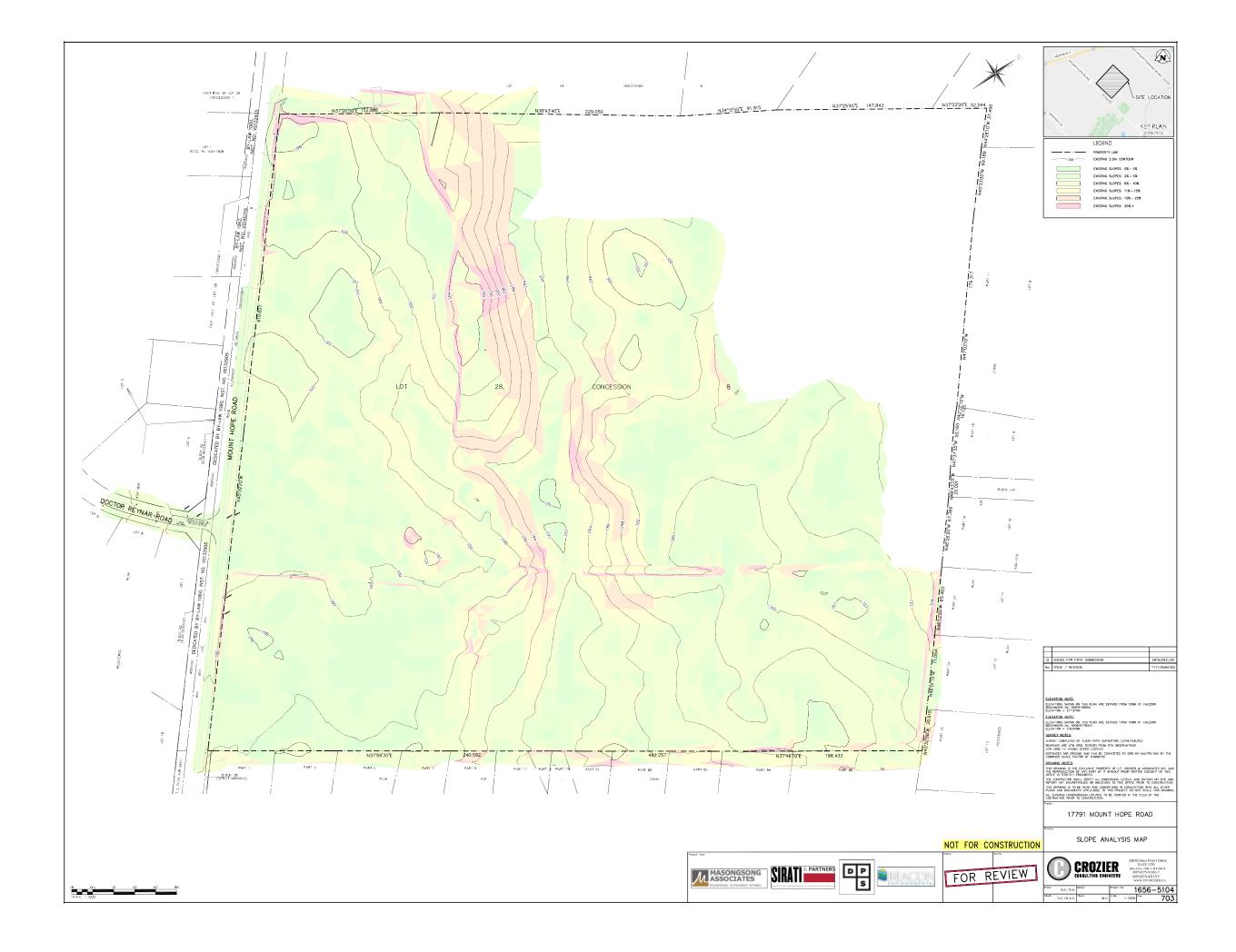
D P

S

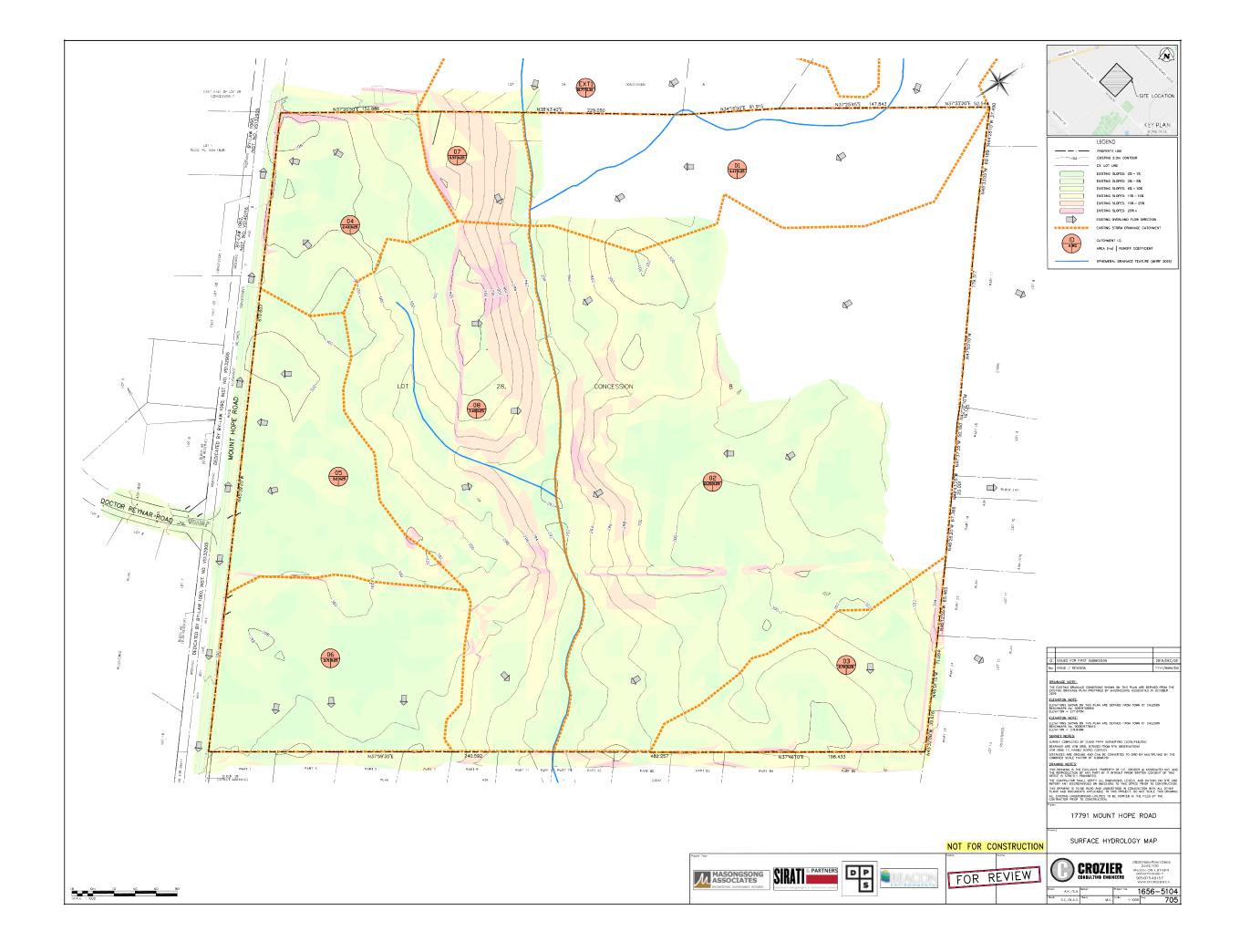












Feb 04, 2021

