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STAGE 1-2 ARCHAEOLOGICAL ASSESSMENT

Stage 1-2 Archaeological Assessment of the Property Located
at 4243 Sixth Line, Lot 16, Concession 2, North of Dundas Street, (Geographic
Township of Trafalgar) Town of Oakville, Regional Municipality of Halton
(*AMICK Corporate Project #2023-346/MCM File #P038-1331-2023*)

SUBMITTED TO:

Ontario Ministry of Citizenship and Multiculturalism (MCM)

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EXECUTIVE SUMMARY

This report describes the results of the 2022 Stage 1-2 Archaeological Property Assessment of Stage 1-2 Archaeological Assessment of the Property Located at 4243 Sixth Line, Lot 16, Concession 2, North of Dundas Street, (Geographic Township of Trafalgar) Town of Oakville, Regional Municipality of Halton, conducted by AMICK Consultants Limited. This assessment was undertaken as a requirement under the Planning Act (RSO 1990) and was conducted under Professional Archaeologist License #P038 issued to Marilyn Cornies by the Minister of Citizenship and Multiculturalism (MCM) for the Province of Ontario. All work was conducted in conformity with Ontario Ministry of Tourism and Culture (MTC) Standards and Guidelines for Consultant Archaeologists (MTC 2011) and the Ontario Heritage Act (RSO 1990a).

The entirety of the study area is approximately 3.87 hectares (ha) in area and includes within it some ploughable lands, a fenced in electrical structure and gravel paths and surface disturbance. The study area is surrounded on all sides by farmland, except for the southwest side which has Sixth Line running directly adjacent to the study area. AMICK Consultants Limited was engaged by the proponent to undertake a Stage 1-2 Archaeological Property Assessment of lands potentially affected by the proposed undertaking and was granted permission to carry out archaeological fieldwork. Following the criteria outlined by MCMS (2011) for determining archaeological potential, portions of the study area were determined as having archaeological potential for Pre-Contact and Post-Contact archaeological resources. Consequently, this report is being prepared in advance of the planning process for this property.

The entirety of the study area was subject to property inspection and photographic documentation concurrently with the Stage 2 Property Assessment which consisted of test pit survey at a ten-metre interval to confirm disturbance on 24 July 2023 and high intensity pedestrian survey at an interval of 5 metres between individual transects on 10 August 2023. All records, documentation, field notes, photographs, and artifacts (as applicable) related to the conduct and findings of these investigations are held at the Lakelands District corporate offices of AMICK Consultants Limited until such time that they can be transferred to an agency or institution approved by the MCM on behalf of the government and citizens of Ontario.

As a result of the Stage 2 Property Assessment of the study area, no archaeological resources were encountered. Consequently, the following recommendations are made:

1. *No further archaeological assessment of the study area is warranted.*
2. *The Provincial interest in archaeological resources with respect to the proposed undertaking has been addressed.*
3. *The proposed undertaking is clear of any archaeological concern.*

1.0 PROJECT CONTEXT

1.1 DEVELOPMENT CONTEXT

This report describes the results of the 2022 Stage 1-2 Archaeological Property Assessment of Stage 1-2 Archaeological Assessment of the Property Located at 4243 Sixth Line, Lot 16, Concession 2, North of Dundas Street, (Geographic Township of Trafalgar) Town of Oakville, Regional Municipality of Halton conducted by AMICK Consultants Limited. This assessment was undertaken as a requirement under the Planning Act (RSO 1990) and was conducted under Professional Archaeologist License #P038 issued to Marilyn Cornies by the Minister of Citizenship and Multiculturalism (MCM) for the Province of Ontario. All work was conducted in conformity with Ontario Ministry of Tourism and Culture (MCM) Standards and Guidelines for Consultant Archaeologists (MTC 2011) and the Ontario Heritage Act (RSO 1990a).

The entirety of the study area is approximately 3.87 hectares (ha) in area and includes within it some ploughable lands, a fenced in electrical structure and gravel paths and surface disturbance. The study area is surrounded on all sides by farmland, except for the southwest side which has Sixth Line running directly adjacent to the study area. AMICK Consultants Limited was engaged by the proponent to undertake a Stage 1-2 Archaeological Property Assessment of lands potentially affected by the proposed undertaking and was granted permission to carry out archaeological fieldwork. Following the criteria outlined by MCMS (2011) for determining archaeological potential, portions of the study area were determined as having archaeological potential for Pre-Contact and Post-Contact archaeological resources. Consequently, this report is being prepared in advance of the planning process for this property.

The entirety of the study area was subject to property inspection and photographic documentation concurrently with the Stage 2 Property Assessment which consisted of test pit survey at a ten-metre interval to confirm disturbance on 24 July 2023 and high intensity pedestrian survey at an interval of 5 metres between individual transects on 10 August 2023. All records, documentation, field notes, photographs, and artifacts (as applicable) related to the conduct and findings of these investigations are held at the Lakelands District corporate offices of AMICK Consultants Limited until such time that they can be transferred to an agency or institution approved by the MCM on behalf of the government and citizens of Ontario.

The proposed development of the study area includes 2 buildings, each with 7 separate complexes within them, and sufficient parking surrounding all buildings. A preliminary plan of the proposed development has been submitted together with this report to MCMS for review and reproduced within this report as Map 3.

1.2 HISTORICAL CONTEXT

1.2.1 PRE-CONTACT LAND-USE OUTLINE

Table 1 illustrates the chronological development of cultures within southern Ontario prior to the arrival of European cultures to the area at the beginning of the 17th century. This general cultural outline is based on archaeological data and represents a synthesis and summary of research over a long period of time. It is necessarily generalizing and is not necessarily representative of the point of view of all researchers or stakeholders. It is offered here as a rough guideline and as a very broad outline to illustrate the relationships of broad cultural groups and time periods.

TABLE 1 PRE-CONTACT CULTURAL CHRONOLOGY FOR SOUTHERN ONTARIO

Years ago	Period	Southern Ontario
250	Terminal Woodland	Ontario and St. Lawrence Iroquois Cultures
1000 2000	Initial Woodland	Princess Point, Saugeen, Point Peninsula, and Meadowood Cultures
3000 4000 5000 6000	Archaic	Laurentian Culture
7000 8000 9000 10000 11000	Palaeo-Indian	Plano and Clovis Cultures
		(Wright 1972)

What follows is an outline of Aboriginal occupation in the area during the Pre-Contact Era from the earliest known period, about 9000 B.C. up to approximately 1650 AD.

1.2.1.1 PALEO-INDIAN PERIOD (APPROXIMATELY 9000-7500 B.C.)

North of Lake Ontario, evidence suggests that early occupation began around 9000 B.C. People probably began to move into this area as the glaciers retreated and glacial lake levels began to recede. The early occupation of the area probably occurred in conjunction with environmental conditions that would be comparable to modern Sub-Arctic conditions. Due to the great antiquity of these sites, and the relatively small populations likely involved, evidence of these early inhabitants is sparse and generally limited to tools produced from stone or to by-products of the manufacture of these implements.

1.2.1.2 ARCHAIC PERIOD (APPROXIMATELY 8000-1000 B.C.)

By about 8000 B.C. the gradual transition from a post glacial tundra-like environment to an essentially modern environment was largely complete. Prior to European clearance of the landscape for timber and cultivation, the area was characterized by forest. The Archaic Period is the longest and the most apparently stable of the cultural periods identified through

archaeology. The Archaic Period is divided into the Early, Middle and Late Sub-Periods, each represented by specific styles in projectile point manufacture. Many more sites of this period are found throughout Ontario, than of the Palaeo-Indian Period. This is probably a reflection of two factors: the longer period of time reflected in these sites, and a greater population density. The greater population was likely the result of a more diversified subsistence strategy carried out in an environment offering a greater variety of abundant resources (Smith 2002:58-59).

Current interpretations suggest that the Archaic Period populations followed a seasonal cycle of resource exploitation. Although similar in concept to the practices speculated for the big game hunters of the Palaeo-Indian Period, the Archaic populations utilized a much broader range of resources, particularly with respect to plants. It is suggested that in the spring and early summer, bands would gather at the mouths of rivers and at rapids to take advantage of fish spawning runs. Later in the summer and into the fall season, smaller groups would move to areas of wetlands to harvest nuts and wild rice. During the winter, they would break into yet smaller groups probably based on the nuclear family and perhaps some additional relatives to move into the interior for hunting. The result of such practices would be to create a distribution of sites across much of the landscape (Smith 2002: 59-60).

The material culture of this period is much more extensive than that of the Palaeo-Indians. Stylistic changes between Sub-Periods and cultural groups are apparent, although the overall quality in production of chipped lithic tools seems to decline. This period sees the introduction of ground stone technology in the form of celts (axes and adzes), manos and metates for grinding nuts and fibres, and decorative items like gorgets, pendants, birdstones, and bannerstones. Bone tools are also evident from this time period. Their presence may be a result of better preservation from these more recent sites rather than a lack of such items in earlier occupations. In addition, copper and exotic chert types appear during the period and are indicative of extensive trading (Smith 2002: 58-59).

1.2.1.3 WOODLAND PERIOD (APPROXIMATELY 1000 B.C.-1650 A.D.)

The primary difference in archaeological assemblages that differentiates the beginning of the Woodland Period from the Archaic Period is the introduction of ceramics to Ontario populations. This division is probably not a reflection of any substantive cultural changes, as the earliest sites of this period seem to be in all other respects a continuation of the Archaic mode of life with ceramics added as a novel technology. The seasonally based system of resource exploitation and associated population mobility persists for at least 1500 years into the Woodland Period (Smith 2002: 61-62).

The Early Woodland Sub-Period dates from about 1000-400 B.C. Many of the artifacts from this time are similar to the late Archaic and suggest a direct cultural continuity between these two temporal divisions. The introduction of pottery represents an entirely new technology that was probably acquired through contact with more southerly populations from which it likely originates (Smith 2002:62).

The Middle Woodland Sub-Period dates from about 400 B.C.-800 A.D. Within the region including the study area, a complex emerged at this time termed “Point Peninsula.” Point Peninsula pottery reflects a greater sophistication in pottery manufacture compared with the earlier industry. The paste and temper of the new pottery is finer and new decorative techniques such as dentate and pseudo-scallop stamping appear. There is a noted Hopewellian influence in southern Ontario populations at this time. Hopewell influences from south of the Great Lakes include a widespread trade in exotic materials and the presence of distinct Hopewell style artifacts such as platform pipes, copper or silver panpipe covers and shark’s teeth. The populations of the Middle Woodland participated in a trade network that extended well beyond the Great Lakes Region.

The Late Woodland Sub-Period dates from about 500-1650 A.D. The Late Woodland includes four separate phases: Princess Point, Early Ontario Iroquoian, Middle Ontario Iroquoian and Late Ontario Iroquoian.

The Princess Point phase dates to approximately 500-1000 A.D. Pottery of this phase is distinguished from earlier technology in that it is produced by the paddle method instead of coil and the decoration is characterized by the cord wrapped stick technique. Ceramic smoking pipes appear at this time in noticeable quantities. Princess Point sites cluster along major stream valleys and wetland areas. Maize cultivation is introduced by these people to Ontario. These people were not fully committed to horticulture and seemed to be experimenting with maize production. They generally adhere to the seasonal pattern of occupation practiced by earlier occupations, perhaps staying at certain locales repeatedly and for a larger portion of each year (Smith 2002: 65-66).

The Early Ontario Iroquoian stage dates to approximately 950-1050 A.D. This stage marks the beginning of a cultural development that led to the historically documented Ontario Iroquoian groups that were first contacted by Europeans during the early 1600s (Petun, Neutral, and Huron). At this stage formal semi-sedentary villages emerge. The Early stage of this cultural development is divided into two cultural groups in southern Ontario. The areas occupied by each being roughly divided by the Niagara Escarpment. To the west were located the Glen Meyer populations, and to the east were situated the Pickering people (Smith 2002: 67).

The Middle Ontario Iroquoian stage dates to approximately 1300-1400 A.D. This stage is divided into two sub-stages. The first is the Uren sub-stage lasting from approximately 1300-1350 A.D. The second of the two sub-stages is known as the Middleport sub-stage lasting from roughly 1350-1400 A.D. Villages tend to be larger throughout this stage than formerly (Smith 2002: 67).

The Late Ontario Iroquoian stage dates to approximately 1400-1650 A.D. During this time the cultural divisions identified by early European explorers are under development and the geographic distribution of these groups within southern Ontario begins to be defined.

1.2.2 POST-CONTACT LAND USE OUTLINE

The study area is situated within an area subject to an archaeological master plan or a similar regional overview study. The *Master Plan of Archaeological Resources of the Regional Municipality of Halton* was adopted in 1998 and portions of the report were revised in 2008. The revised report indicates that updates were made to the GIS for the region which included newly recorded archaeological sites, Euro-Canadian farmsteads, cemeteries, and additional water mapping (ASI 2009, 10). However, an updated archaeological potential map was not included within the 2008 revised report. The revised report did indicate, however, that the modelling criteria used for determining archaeological potential within the region were found to have performed well (ibid. 2009, 10). Therefore, the original criteria were not updated as a part of the 2008 report revisions. Criteria for determining Precontact archaeological potential includes:

- lands within a 200-metre distance buffer from any water source
- lands beyond 200 metres of water, but within 200 metres of the top bank of all two-line rivers like the Credit River or Bronte Creek
- lands within a 200-metre buffer of registered Late Woodland village archaeological sites
- lands within a 100-metre buffer of other registered precontact sites

(ibid. 2009, 2)

Criteria for determining Historic archaeological potential includes:

- lands within a 100m distance buffer of historic schools, places of worship, commercial buildings, and industrial features
- lands within a 50m-100m buffer from early transportation routes, i.e., trails, early settlement roads, and railways

(ibid. 2009, 3)

Based on these criteria, the current study area is within an area of historic archaeological potential.

Map 2 is a facsimile segment from Tremaine's Map of the County of Halton (Tremaine 1858). Map 2 illustrates the location of the study area and environs as of 1859. The study area is shown to belong to Michael L. Bigger; no structures are within the study area. In addition, this map illustrates a settlement road adjacent to the study area to the southwest. This road is the current Sixth Line.

Map 3 is a facsimile segment of the County of Halton map reproduced from The Illustrated Historical Atlas of the County of Peel (Pope 1877). Map 3 illustrates the location of the study area and environs as of 1877. The study area is shown to belong to Michael L. Bigger; two structures and an orchard are shown to be within the study area. This demonstrates that the original property of which the study area is a part was settled by the time that the atlas data was compiled. Accordingly, it has been determined that there is potential for archaeological deposits related to early Post-contact settlement within the study area. . In addition, this map

illustrates a settlement road adjacent to the study area to the southwest. This road is the current Sixth Line.

A plan of the study area is included within this report as Map 3. Current conditions encountered during the Stage 1-2 Property Assessment are illustrated in Maps 4 & 5.

1.2.3 SUMMARY OF HISTORICAL CONTEXT

The brief overview of readily available documentary evidence indicates that the study area is situated within an area that was close to historic transportation routes and in an area well populated during the nineteenth century and therefore has potential for sites relating to early Post-contact settlement in the region. However, it also appears that while the area was moving toward urban development by the fourth quarter of the 19th century, it was still predominantly rural in character and the likelihood of locating significant post-contact archaeological deposits of cultural heritage value or interest (CHVI) on a very small parcel of the original township lot is not likely.

1.3 ARCHAEOLOGICAL CONTEXT

The study area is located near Oakville and is surrounded on all sides by farmland, except for the southwest side which has Sixth Line running directly adjacent to the study area. A fenced in electrical structure is located in the eastern corner of the study area. There is a portion of the study area on the southeastern edge that contains ploughable lands. The northeastern corner contains steep slope. The remaining surface of the study area contains gravel paths and surface disturbance.

1.3.1 PHYSIOGRAPHIC REGION

The study area is situated within the South Slope physiographic region which extends from the Niagara Escarpment to the Trent River. Conditions in the region vary greatly. The area in which the study area lies is described as a ground moraine with irregular knolls and hollows. The South Slope lies across the limestones of the Verulam and Lindsay Formations, the grey shales of the Georgian Bay Formation and the reddish shales of the Queenston Formation. A till consisting nearly of red and grey shale is reached west of the Credit River. The soil is only slightly acidic, ranging from sandy in the east to clayey in the west (Chapman and Putnam 1984: 172-174).

1.3.2 SURFACE WATER & VEGETATION

The study area contains no surface water, and the natural vegetation has almost completely been disturbed.

1.3.3 LITHIC SOURCES

The study area is located 25 kilometres North of the Lockport Formation which has outcrops of Ancaster chert. Ancaster chert is a member of the Middle Silurian Lockport Formation and can be found from Niagara up the escarpment to the Hamilton area (Armstrong 2018:70; Eley and von Bitter 1989:20). It is medium grey in colouration and usually includes darker carbonate mottling with light quartz grains and “rusting” from iron oxide inclusions (Armstrong 2018:71). Ancaster chert usually has white to light grey patination and lustre varies from dull to earthy to vitreous (Armstrong 2018:71).

1.3.4 REGISTERED ARCHAEOLOGICAL SITES

The Archaeological Sites Database administered by the MCMS indicates that there are fifty-three (53) previously documented sites within 1 kilometre of the study area. However, it must be noted that this assumes the accuracy of information compiled from numerous researchers using different methodologies over many years. AMICK Consultants Limited assumes no responsibility for the accuracy of site descriptions, interpretations such as cultural affiliation, or location information derived from the Archaeological Sites Database administered by MCMS. In addition, it must also be noted that a lack of formerly documented sites does not indicate that there are no sites present as the documentation of any archaeological site is contingent upon prior research having been conducted within the study area.

1.3.4.1 PRE-CONTACT REGISTERED SITES

A summary of registered and/or known archaeological sites within a 1-kilometre radius of the study area was gathered from the Archaeological Sites Database, administered by MCMS. As a result, it was determined that thirty-two (32) archaeological sites relating directly to Pre-contact habitation/activity had been formally registered within the immediate vicinity of the study area. One (1) of these sites (AiGw-493) are multi-component sites listed as both Pre-contact and Post-contact sites. All previously registered Pre-contact sites are briefly described below in Table 2:

TABLE 2 PRE-CONTACT SITES WITHIN 1KM

Borden #	Site Name	Time Period	Affinity	Site Type
AjGx-181		Archaic, Early	Aboriginal	Findspot
AjGw-622		Woodland, Middle	Aboriginal	Unknown, hunting loss
AjGw-467		Woodland, Early	Aboriginal	Findspot
AjGw-466		Woodland, Early	Aboriginal	Findspot
AjGw-465		Pre-Contact	Aboriginal	Scatter
AjGw-464		Pre-Contact	Aboriginal	Unknown
AjGw-463		Woodland, Early	Aboriginal	

AjGw-462		Archaic, Paleo-Indian, Late	Aboriginal	Findspot
AjGw-31	81-403-48	Pre-Contact	Aboriginal	Findspot
AjGw-30	81-403-46	Pre-Contact	Aboriginal	Findspot
AjGw-28	80-403-14	Pre-Contact	Aboriginal	Findspot
AjGw-27	80-403-13	Woodland, Early	Aboriginal	Othercamp/ campsite
AiGw-504		Pre-Contact	Aboriginal	Findspot
AiGw-501	Morrison Creek	Pre-Contact, Woodland, Late	Aboriginal	Unknown
AiGw-493	Bourbee	Post-Contact, Pre-Contact	Aboriginal, Euro-Canadian	Homestead
AiGw-456		Pre-Contact	Aboriginal	Findspot
AiGw-455		Pre-Contact	Aboriginal	Findspot
AiGw-415		Pre-Contact, Woodland, Early	Aboriginal	Findspot
AiGw-326		Pre-Contact	Aboriginal	Findspot
AiGw-325		Woodland, Late	Aboriginal, Iroquoian	Findspot
AiGw-324		Woodland, Late	Aboriginal, Iroquoian	Findspot
AiGw-307	Shagbark	Pre-Contact	Aboriginal	
AiGw-172	81-403-45	Pre-Contact	Aboriginal	Findspot
AiGw-171	81-403-43	Pre-Contact	Aboriginal	Findspot
AiGw-170	81-403-42	Pre-Contact	Aboriginal	Findspot
AiGw-169	81-403-41	Pre-Contact	Aboriginal	Findspot
AiGw-167	81-403-167	Pre-Contact	Aboriginal	Findspot
AiGw-166	81-403-38	Pre-Contact	Aboriginal	Findspot
AiGw-1060		Archaic, Middle	Aboriginal	Hunting Loss
AiGw-1059		Woodland, Early	Aboriginal	Hunting Loss
AiGw-1018		Archaic, Middle	Aboriginal	Scatter
AiGw-1000	Location 1	Pre-Contact	Aboriginal	Findspot

Several of the above noted archaeological sites (AjGw-30, AiGw-167 & AiGw-166) is situated within 300 metres of the study area. Therefore, it demonstrates archaeological potential for further archaeological resources related to Pre-contact activity and occupation with respect to the archaeological assessment of the proposed undertaking.

1.3.4.2 POST-CONTACT REGISTERED SITES

A summary of registered and/or known archaeological sites within a 1-kilometre radius of the study area was gathered from the Archaeological Sites Database, administered by MCMS. As a result, it was determined that nineteen (19) archaeological sites relating directly to Post-contact habitation/activity had been formally registered within the immediate vicinity

of the study area. One (1) of these sites (AiGw-493) are multi-component sites listed as both Pre-contact and Post-contact sites. All previously registered Post-contact sites are briefly described below in Table 3:

TABLE 3 POST-CONTACT SITES WITHIN 1KM

Borden #	Site Name	Time Period	Affinity	Site Type
AjGw-632	H1	Post-Contact	Euro-Canadian	Homestead
AjGw-501	McDuffe Site	Post-Contact	Euro-Canadian	
AjGw-500	Bigger	Post-Contact		
AjGw-227	Lernan	Post-Contact	Euro-Canadian	Homestead
AiGw-986	Location 1	Post-Contact	Euro-Canadian	Homestead
AiGw-545	AiGw-545	Post-Contact	Euro-Canadian	Farmstead, Homestead, House
AiGw-500		Post-Contact	Euro-Canadian	Unknown
AiGw-499		Post-Contact	Euro-Canadian	Unknown
AiGw-498		Post-Contact	Euro-Canadian	Unknown
AiGw-497		Post-Contact	Euro-Canadian	Unknown
AiGw-496	Mosely Farm House	Post-Contact	Euro-Canadian	Midden
AiGw-495		Post-Contact	Euro-Canadian	Unknown
AiGw-494		Post-Contact	Euro-Canadian	Findspot
AiGw-493	Bourbee	Post-Contact, Pre-Contact	Aboriginal, Euro-Canadian	Homestead
AiGw-492		Post-Contact	Euro-Canadian	Unknown
AiGw-1058		Post-Contact	Euro-Canadian	Agricultural
AiGw-1057		Post-Contact	Euro-Canadian	Agricultural
AiGw-1002		Post-Contact	Euro-Canadian	Farmstead
AiGw-1001		Post-Contact		Farmstead, Homestead

One of the above noted archaeological sites (AiGw-986) is situated within 300 metres of the study area. Therefore, it demonstrates archaeological potential for further archaeological resources related to Post-contact activity and occupation with respect to the archaeological assessment of the proposed undertaking.

1.3.4.3 REGISTERED SITES OF UNKNOWN CULTURAL AFFILIATION

A summary of registered and/or known archaeological sites within a 1-kilometre radius of the study area was gathered from the Archaeological Sites Database, administered by MCMS. As a result, it was determined that three (3) archaeological sites of unknown cultural affiliation have been formally registered within the immediate vicinity of the study area. All previously registered sites of unknown cultural affiliation are briefly described below in Table 4:

TABLE 4 REGISTERED SITES OF UNKNOWN CULTURAL AFFILIATION WITHIN 1KM

Borden #	Site Name	Time Period	Affinity	Site Type
AiGw-542				
AiGw-179				
AiGw-168	81-403-40	Other		Other Findspot

None of the above noted archaeological sites are situated within 300 metres of the study area. Therefore, they have no impact on determinations of archaeological potential for further archaeological resources related to human activity and occupation with respect to the archaeological assessment of the proposed undertaking.

1.3.5 PREVIOUS ARCHAEOLOGICAL ASSESSMENTS

Background research shows that three (3) previous studies have taken place within 50m of the study area. For further information see:

Stantec Consulting Limited. (2016). *Stage 1-2 Archaeological Assessment William Halton Parkway- Neyagawa to Trafalgar Part of Lots 18 and 19, Concession 1 North of Dundas Street, and Part of Lots 14 to 19, Concession 2 North of Dundas Street (Geographic Township of Trafalgar, Now Town of Oakville), Regional Municipality Of Halton, Ontario*. London, Ontario. Archaeological License Report on file with MCM, Toronto, Ontario (Stantec Project #165010557/MCM File #P256-0157-2014).

Stantec Consulting Limited. (2019). *Stage 3 Archaeological Assessment Location 1 (AiGw-986), William Halton-Parkway- Neyagawa to Trafalgar Part of Lot 16, Concession 2 North of Dundas Street (Geographic Township of Trafalgar, now Town of Oakville), Regional Municipality of Halton, Ontario*. London, Ontario. Archaeological License Report on file with MCM, Toronto, Ontario (Stantec Project #165010557/MCM File #P083-0281-2016).

Stantec Consulting Limited. (2020). *Stage 4 Mitigation Report: Location 1 (AiGw-986), William Halwon Parkway- Neyagawa to Trafalgar Part of Lot 16, Concession 2 North of Dundas Street, (Geographic Township of Trafalgar, now Town of Oakville), Regional Municipality of Halton, Ontario*. London, Ontario Archaeological License Report on file with MCM, Toronto, Ontario (Stantec Project #165010557/MCM File #P083-0290-2016).

1.3.5.1 STANTEC CONSULTING LIMITED (2016)

Between 2014 and 2016, Stantec Consulting Limited conducted a Stage 1-2 Archaeological Property Assessment of the William Halton Parkway- Neyagawa to Trafalgar (formerly known as the New North Oakville Transportation Corridor) between Neyagawa Boulevard and Trafalgar Road, located on part of Lots 18 and 19, Concession 1 North of Dundas Street, and part of Lots 14 to 19, Concession 2 North of Dundas Street. The stage 1 assessment determined that portions of the study area exhibited a moderate to high archeological potential. The stage 2 assessment was

conducted using high intensity pedestrian survey at 5-metre intervals and 1-metre intervals of the study area, and high intensity test pit surveys at five-metre intervals of the study area. The surveys resulted in the identification of 2 archeological sites. A total of 132 Euro-Canadian artifacts were collected from AiGw-986 (Location 1) during test pit survey and 30 Euro-Canadian Artifacts from the same site. A stage 3 archeological assessment was recommended for Location 1. Location 2 was identified during test pit survey and resulted in the recovery of a late 19th to 20th century Euro-Canadian artifact assemblage. Less than 20 artifacts were identified in Location 2, resulting in no recommendation for a stage 3 archeological assessment. (Stantec 2016).

1.3.5.2 STANTEC CONSULTING LIMITED (2019)

In 2016, Stantec Consulting Limited conducted a Stage 3 Archeological Assessment for Location 1 (AiGw-986), part of the proposed William Halton Parkway (formerly known as the New North Oakville Transportation Corridor) project between Neyagawa Boulevard and Trafalgar Road. This assessment resulted in the recovery of 893 Euro-Canadian artifacts. Location 1 was interpreted as a 19th century Euro-Canadian occupation, having over 80% of the artifacts date back to before 1870. A stage 4 archeological assessment was recommended for Location 1. (Stantec 2019).

1.3.5.3 STANTEC CONSULTING LIMITED (2020)

In 2016, Stantec Consulting Limited conducted a Stage 4 mitigation of Location 1 (AiGw-986), located on part of Lot 16, concession 2 North of Dundas Street, Geographic Township of Trafalgar, now Town of Oakville, Regional Municipality of Halton, Ontario. The stage 4 mitigation included a hand excavation of 119 one-metre units, resulting in the confirmation of the overall historic and modern disturbance of the site, confirming the 19th century date of Location 1. A total of 12,465 Euro-Canadian artifacts and 1 pre-contact aboriginal artifact were recovered from Location 1. Five subsurface cultural features and one post mould were identified. After documenting and collecting the artifacts from Location 1, the area no longer contains further cultural value or interest.

1.3.5.4 PREVIOUS REGIONAL ARCHAEOLOGICAL POTENTIAL MODELLING

The study area is situated within an area subject to an archaeological master plan or a similar regional overview study. *The Master Plan of Archaeological Resources of the Regional Municipality of Halton* was adopted in 1998 and revised in 2008. The study area is within 50-100m of early transportation routes, and therefore is determined to have archaeological potential.

1.3.6 HISTORIC PLAQUES

There are no relevant plaques associated with the study area, which would suggest an activity or occupation within, or near, the study area that may indicate potential for associated archaeological resources of significant CHVI.

1.3.7 SUMMARY OF ARCHAEOLOGICAL CONTEXT

The study area contains a fenced in electrical structure in the eastern corner of the study area, ploughable lands on the southwestern edge, steep slope in the northeastern corner and the remaining surface of the study area contains gravel paths and surface disturbance.

Current conditions within the study area indicate that some areas of the property may have no or low archaeological potential and do not require Stage 2 Property Assessment or should be excluded from Stage 2 Property Assessment. These areas would include the fenced in electrical structure and areas that are not accessible due to previously dumped soil covering the original surface of the ground. The aerial map (Map 5) shows previous buildings in the study area, but these buildings have since been demolished and the remainder of the study area contains building rubble and gravel, indicating a low archaeological potential for the study area. A significant proportion of the study area does exhibit archaeological potential and therefore a Stage 2 Property Assessment is required.

Background research also indicates that the study area is situated in the South Slope physiographic region, which varies greatly, ranging from sandy in the east to clayey in the west. The study area is located 25 kilometres North of the Lockport Formation which has outcrops of Ancaster chert.

A total of 53 previously registered archaeological sites have been documented within 1km of the study area. Of these, 32 are Pre-contact, 19 are Post-contact and 3 are of unknown cultural affiliation. 4 of these sites (AiGw-166, AiGw-986, AiGw-167 & AjGw-30) are located within 300m of the study area and, therefore, do demonstrate archaeological potential for further archaeological resources of Pre-contact/Post-contact activity and occupation with respect to the archaeological assessment of the current study area.

The study area is situated within an area subject to an archaeological master plan or a similar regional overview study. There are no relevant plaques associated with the study area.

The study area has potential for archaeological resources of Native origins based on proximity to previously registered archaeological sites of Pre-contact origins. Background research also suggests potential for archaeological resources of Post-contact origins based on proximity to previously registered archaeological sites of Post-contact origins, proximity to a historic roadway, and proximity to areas of documented historic settlement.

2.0 FIELD WORK METHODS AND WEATHER CONDITIONS

2.1 INTRODUCTION

A property inspection was carried out in compliance with Standards and Guidelines for Consultant Archaeologists (MTC 2011) to document the existing conditions of the study area to facilitate the Stage 2 Property Assessment. All areas of the study area were visually inspected and select features were photographed as a representative sample of each area defined within Maps 5 and 6. Observations made of conditions within the study area at the time of the inspection were used to inform the requirement for Stage 2 Property Assessment for portions of the study area as well as to aid in the determination of appropriate Stage 2 Property Assessment strategies. The locations from which photographs were taken and the directions toward which the camera was aimed for each photograph are illustrated in Maps 5 & 6 of this report.

The Stage 2 Assessment of the study area was carried out on 24 July 2023 and 10 August 2023 and consisted of test pit survey at a ten-metre interval to confirm disturbance and high intensity pedestrian survey at an interval of 5 metres between individual transects which was conducted in compliance with the Standards and Guidelines for Consultant Archaeologists, sections 2.1.1: Pedestrian Survey and 2.1.8: Property Survey to Confirm Previous Disturbance (MTC 2011). Weather conditions were appropriate for the necessary fieldwork required to complete the Stage 2 Property Assessment and to create the documentation appropriate to this study.

2.2 PEDESTRIAN SURVEY

Approximately 0.83 ha of the study area was subjected to pedestrian survey at 5m transect intervals. All actively or recently cultivated agricultural land within the study area was recently ploughed deep enough to provide total topsoil exposure but not deeper than previous ploughing and was weathered by heavy rainfall. In addition, approximately 80% of the ploughed field surface was exposed and visible per Section 2.1.1, Standards 1-6 (MTC 2011). All work was photo-documented.

Through the course of the pedestrian survey, no archaeological resources were encountered.

2.4 CONFIRMATION OF DISTURBANCE

Approximately 3.4 ha of the study area was subject to test pit survey at 10m intervals to confirm disturbance. Areas of suspected disturbance within the study area consists of gravel and rock over a deeply disturbed soil context, including rubble and push piles from previously demolished buildings. AMICK Consultants Limited tested the suspected disturbed area at a 10-metre interval to confirm disturbance in a manner consistent with the objectives to ensure that the area is accurately delimited and properly identified. This procedure demonstrated that the entire disturbed portion of the study area consists of fill deposited within a deeply disturbed context. There is no archaeological potential within this area.

Approximately 75% of the study area consisted of surface disturbance including rubble from a previously demolished building and gravel pathways. Approximately 20% of the study area was ploughable meadow that was pedestrian surveyed at 5m transects. Approximately 5% of the study area was not assessable due to the presence of existing fenced in electrical structures. Maps 5 & 6 of this report illustrate the Stage 2 Assessment methodology within the study area.

3.0 RECORD OF FINDS

3.1 INTRODUCTION

As a result of the Stage 1-2 Assessment of the study area, no archaeological resources of any description were encountered.

4.0 ANALYSIS AND CONCLUSIONS

4.1 STAGE 1 ANALYSIS AND CONCLUSIONS

4.1.1 CHARACTERISTICS INDICATING ARCHAEOLOGICAL POTENTIAL

Section 1.3.1 of the Standards and Guidelines for Consultant Archaeologists specifies the property characteristics that indicate archaeological potential (MtC 2011). Factors that indicate archaeological potential are features of the local landscape and environment that may have attracted people to either occupy the land or to conduct activities within the study area. One or more of these characteristics found to apply to a study area would necessitate a Stage 2 Property Assessment to determine if archaeological resources are present. These characteristics include:

- 1) Within 300m of Previously Identified Archaeological Sites
- 2) Within 300m of Primary Water Sources (e.g., lakes, rivers, streams, and creeks)
- 3) Within 300m of Secondary Water Sources (e.g., intermittent streams and creeks, springs, marshes, and swamps)
- 4) Within 300 m of Features Indicating Past Water Sources (e.g., glacial lake shorelines indicated by the presence of raised sand or gravel beach ridges, relic river or stream channels indicated by clear dip or swale in the topography, shorelines of drained lakes or marshes, and cobble beaches)
- 5) Within 300m of an Accessible or Inaccessible Shoreline (e.g., high bluffs, swamp, or marsh fields by the edge of a lake, sandbars stretching into marsh)
- 6) Elevated Topography (e.g., eskers, drumlins, large knolls, and plateaux)

- 7) Pockets of Well-drained Sandy Soil, especially near areas of heavy soil or rocky ground.
- 8) Distinctive Land Formations that might have been special or spiritual places, such as waterfalls, rock outcrops, caverns, mounds, and promontories and their bases. There may be physical indicators of their use, such as burials, structures, offerings, rock paintings or carvings.
- 9) Resource Areas, including:
 - food or medicinal plants (e.g., migratory routes, spawning areas, and prairie)
 - scarce raw materials (e.g., quartz, copper, ochre or outcrops of chert)
 - resources of importance to early Post-contact industry (e.g., logging, prospecting, and mining)
- 10) Within 300m of Areas of Early Post-contact Settlement, including:
 - military or pioneer settlement (e.g., pioneer homesteads, isolated cabins, and farmstead complexes)
 - early wharf or dock complexes, pioneer churches and early cemeteries
- 11) Within 100m of Early Historical Transportation Routes (e.g., trails, passes, roads, railways, portage routes)
- 12) Heritage Property – A property listed on a municipal register or designated under the Ontario Heritage Act or is a federal, provincial, or municipal historic landmark or site.
- 13) Documented Historical or Archaeological Sites – property that local histories or informants have identified with possible archaeological sites, historical events, activities, or occupations. These are properties which have not necessarily been formally recognized or for which there is additional evidence identifying possible archaeological resources associated with historic properties in addition to the rationale for formal recognition.

The study area is situated within 100m of an early settlement road that appears on the historic atlas maps of 1859 and 1877. This historic road corresponds to the road presently known as Sixth Line which is directly adjacent to the study area on its southwestern edge.

4.1.2 CHARACTERISTICS INDICATING REMOVAL OF ARCHAEOLOGICAL POTENTIAL

Section 1.3.2 of the Standards and Guidelines for Consultant Archaeologists specifies the property characteristics which indicate no archaeological potential or for which archaeological potential has been removed (MTC 2011). These characteristics include:

- 1) Quarrying
- 2) Major Landscaping Involving Grading Below Topsoil

- 3) Building Footprints
- 4) Sewage and Infrastructure Development

The study area contains footprints of demolished buildings including building rubble and gravel surfaces.

4.1.3 SUMMARY OF ARCHAEOLOGICAL POTENTIAL

Table 6 below summarizes the evaluation criteria of the Ministry of Citizenship and Multiculturalism together with the results of the Stage 1 Background Study for the proposed undertaking. Based on the criteria, the property is deemed to have archaeological potential on the basis of known archaeological sites within 300m and the location of early historic settlement roads adjacent to the study area. However, the lack of nearby water sources and the recent disturbance to the soil gives the study area a low archaeological potential.

TABLE 6 EVALUATION OF ARCHAEOLOGICAL POTENTIAL

FEATURE OF ARCHAEOLOGICAL POTENTIAL	YES	NO	N/A	COMMENT
1 Known archaeological sites within 300m	Y			If Yes, potential determined
PHYSICAL FEATURES				
2 Is there water on or near the property?		N		If Yes, what kind of water?
2a Primary water source within 300 m. (lakeshore, river, large creek, etc.)		N		If Yes, potential determined
2b Secondary water source within 300 m. (stream, spring, marsh, swamp, etc.)		N		If Yes, potential determined
2c Past water source within 300 m. (beach ridge, river bed, relic creek, etc.)		N		If Yes, potential determined
2d Accessible or Inaccessible shoreline within 300 m. (high bluffs, marsh, swamp, sand bar, etc.)		N		If Yes, potential determined
3 Elevated topography (knolls, drumlins, eskers, plateaus, etc.)		N		If Yes, and Yes for any of 4-9, potential determined
4 Pockets of sandy soil in a clay or rocky area		N		If Yes and Yes for any of 3, 5-9, potential determined
5 Distinctive land formations (mounds, caverns, waterfalls, peninsulas, etc.)		N		If Yes and Yes for any of 3-4, 6-9, potential determined
HISTORIC/PREHISTORIC USE FEATURES				
6 Associated with food or scarce resource harvest areas (traditional fishing locations, agricultural/berry extraction areas, etc.)		N		If Yes, and Yes for any of 3-5, 7-9, potential determined.
7 Early Post-contact settlement area within 300 m.		N		If Yes, and Yes for any of 3-6, 8-9, potential determined
8 Historic Transportation route within 100 m. (historic road, trail, portage, rail corridors, etc.)	Y			If Yes, and Yes for any 3-7 or 9, potential determined
9 Contains property designated and/or listed under the Ontario Heritage Act (municipal heritage committee, municipal register, etc.)		N		If Yes and, Yes to any of 3-8, potential determined
APPLICATION-SPECIFIC INFORMATION				
10 Local knowledge (local heritage organizations, Pre-contact, etc.)		N		If Yes, potential determined
11 Recent disturbance not including agricultural cultivation (post-1960-confirmed extensive and intensive including industrial sites, aggregate areas, etc.)	Y			If Yes, no potential or low potential in affected part (s) of the study area.

If **YES** to any of 1, 2a-c, or 10 Archaeological Potential is **confirmed**

If **YES** to 2 or more of 3-9, Archaeological Potential is **confirmed**

If **YES** to 11 or No to 1-10 Low Archaeological Potential is **confirmed** for at least a portion of the study area.

4.2 STAGE 2 ANALYSIS AND CONCLUSIONS

No archaeological sites or resources were found during the Stage 2 survey of the study area.

5.0 RECOMMENDATIONS

5.1 STAGE 1-2 RECOMMENDATIONS

As a result of the Stage 2 Property Assessment of the study area, no archaeological resources were encountered. Consequently, the following recommendations are made:

- 1. No further archaeological assessment of the study area is warranted;*
- 2. The Provincial interest in archaeological resources with respect to the proposed undertaking has been addressed;*
- 3. The proposed undertaking is clear of any archaeological concern.*

6.0 ADVICE ON COMPLIANCE WITH LEGISLATION

While not part of the archaeological record, this report must include the following standard advisory statements for the benefit of the proponent and the approval authority in the land use planning and development process:

- a. *This report is submitted to the Minister of Citizenship and Multiculturalism as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c. 0.18. The report is reviewed to ensure that it complies with the standards and guidelines issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Citizenship and Multiculturalism, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.*
- b. *It is an offence under Sections 48 and 69 of the Ontario Heritage Act for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeological Reports referred to in Section 65.1 of the Ontario Heritage Act.*
- c. *Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the Ontario Heritage Act. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed archaeologist to carry out archaeological fieldwork, in compliance with sec. 48 (1) of the Ontario Heritage Act.*
- d. *The Cemeteries Act, R.S.O. 1990, c. C.4 and the Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Consumer Services.*
- e. *Archaeological sites recommended for further archaeological fieldwork or protection remain subject to Section 48 (1) of the Ontario Heritage Act and may not be altered, or have artifacts removed from them, except by a person holding an archaeological licence.*

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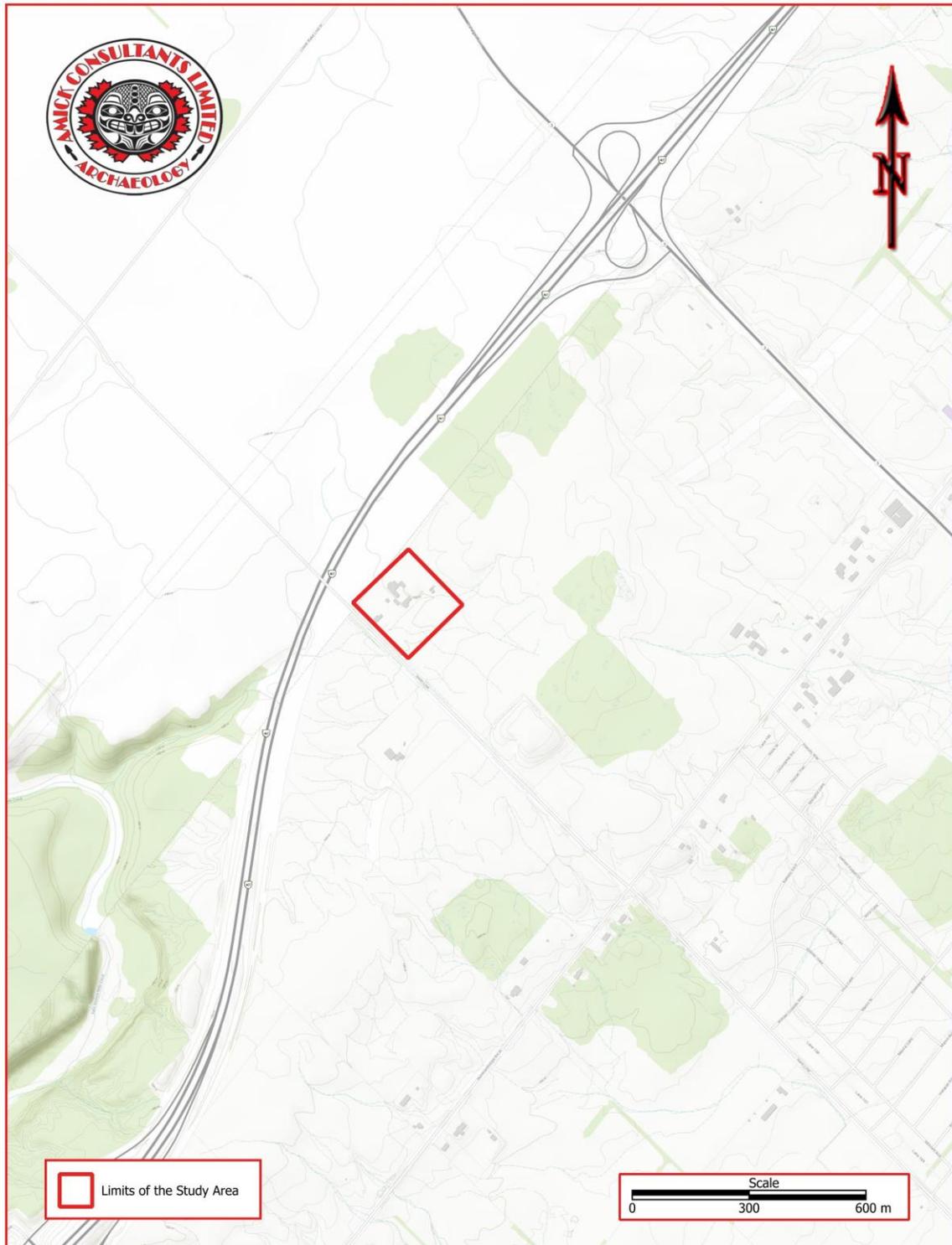
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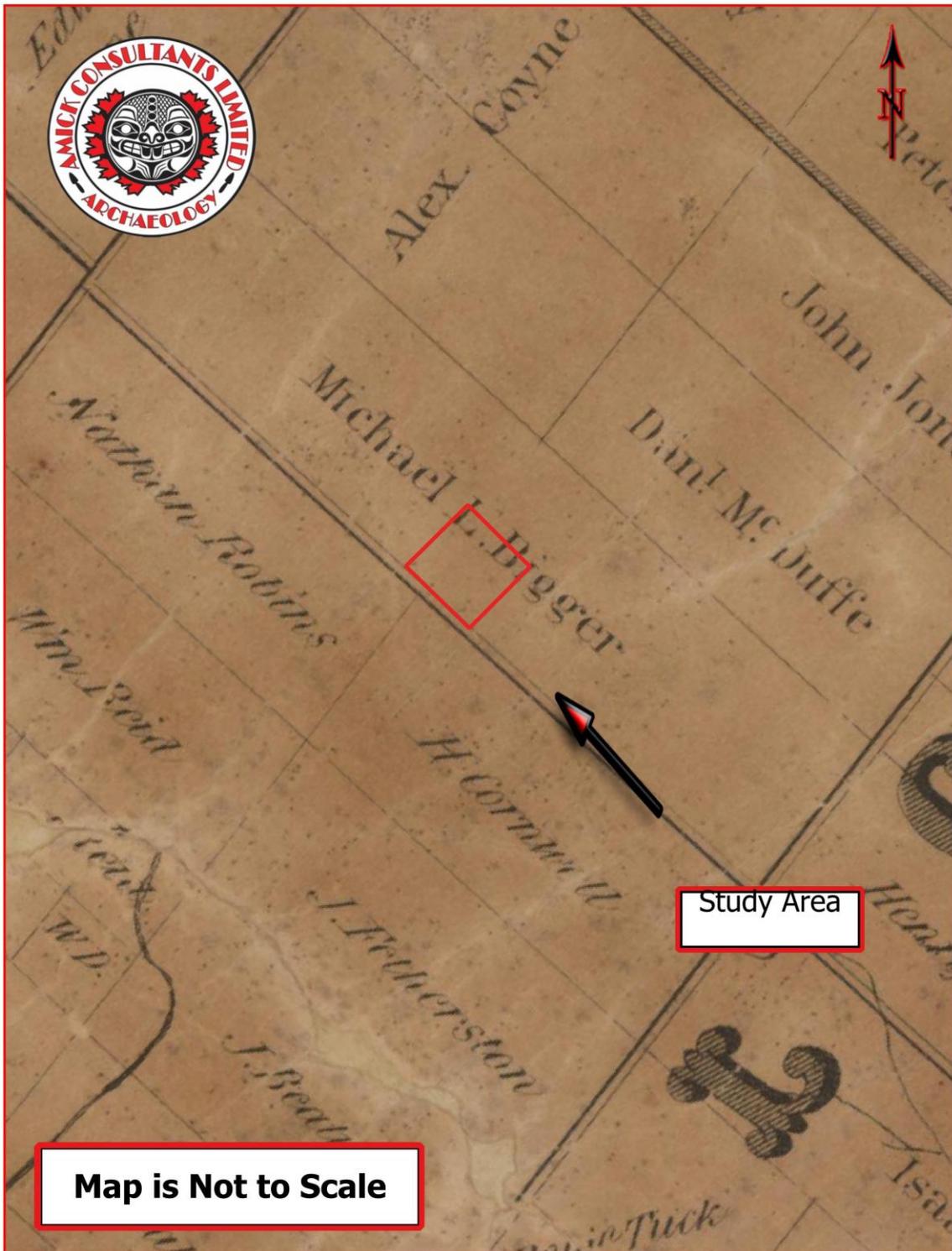
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MAPS

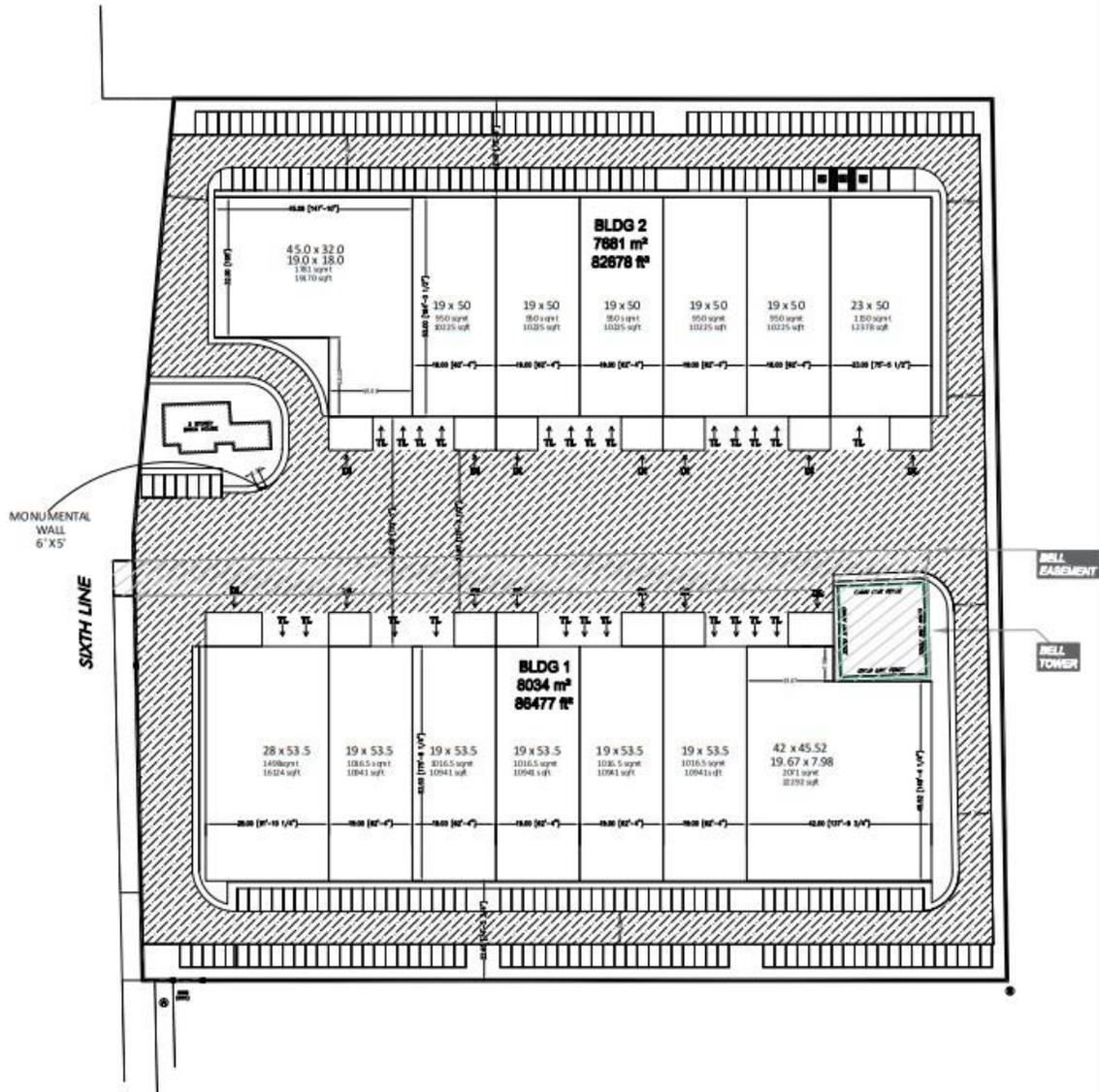
MAP 1 LOCATION OF THE STUDY AREA (ESRI 2019)



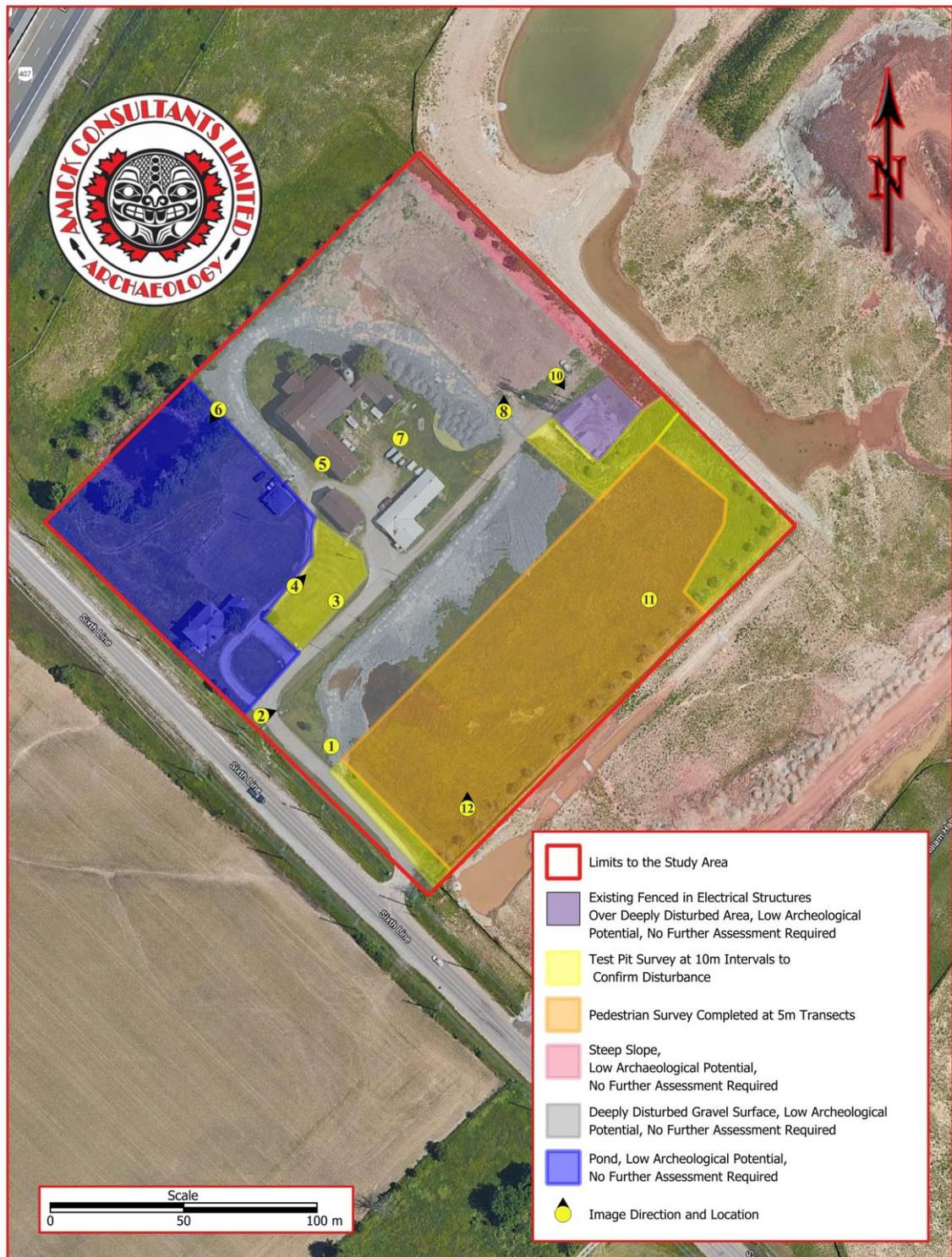
MAP 2 FACSIMILE SEGMENT OF TREMAINE'S MAP OF THE COUNTY OF HALTON
(TREMAINE 1858)



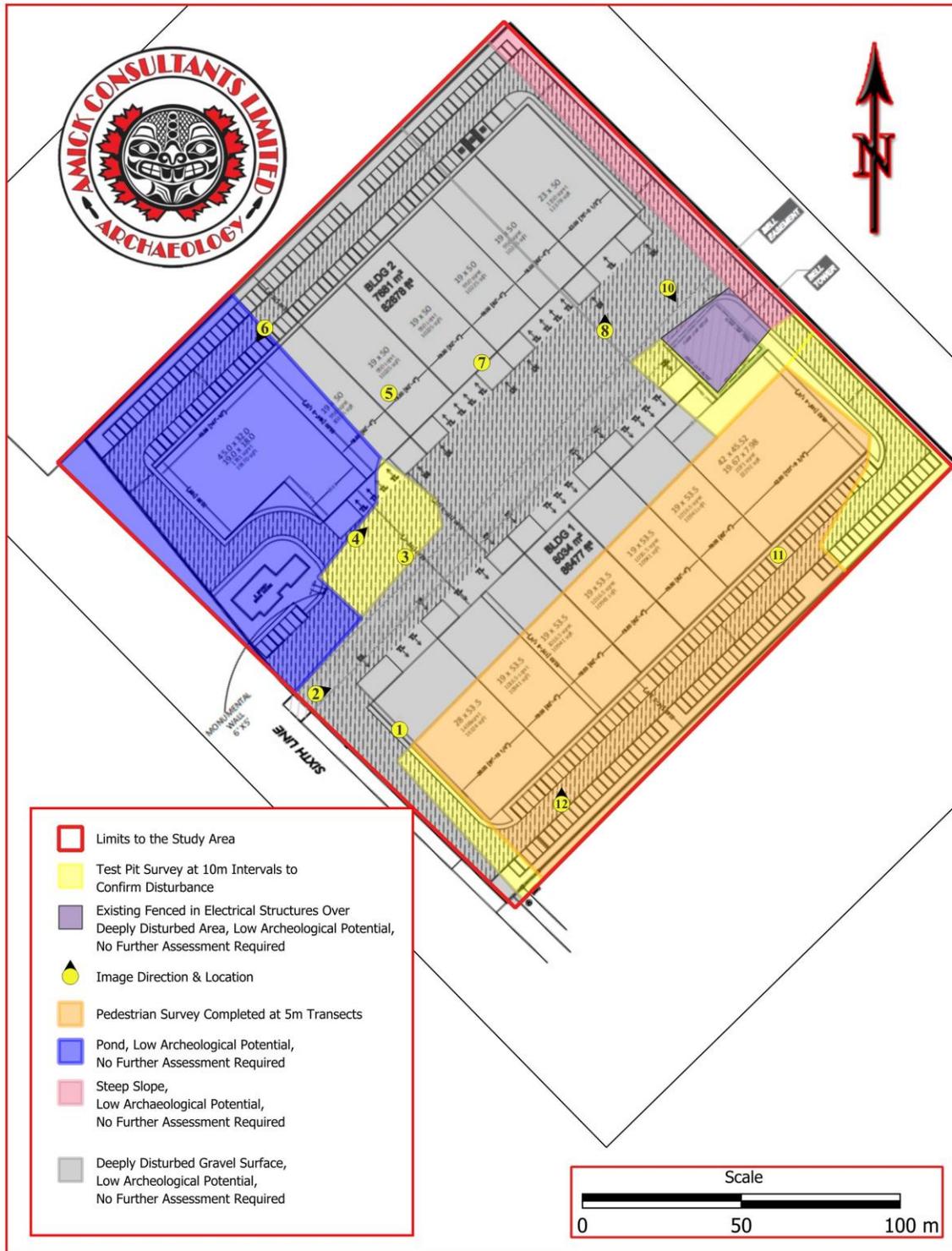
MAP 4 SITE PLAN (CANDEVCON LTD. 2023)



MAP 5 AERIAL PHOTO OF THE STUDY AREA (GOOGLE EARTH 2016)



MAP 6 DETAILED PLAN OF THE STUDY AREA



IMAGES



IMAGE 1 SURFACE DISTURBANCE



IMAGE 2 GRAVEL LANE



IMAGE 3 DISTURBED TEST PIT



IMAGE 4 CREW CONFIRMING DISTURBANCE



IMAGE 5 GRAVEL FILLED TEST PIT



IMAGE 6 POND



IMAGE 7 GRAVEL SURFACE DISTURBANCE



IMAGE 8 PUSH PILE AND BUILDING RUBBLE



IMAGE 9 STEEP SLOPE



IMAGE 10 FENCED IN ELECTRICAL AREA



IMAGE 11 SURFACE CONDITIONS



IMAGE 12 PLOUGHED FIELD OVERVIEW

*2023-346: 4243 Sixth Line
Stage 1-2 Archaeological Property Assessment (Original)*

*MCM File#: P038-1331-2023
19 June 2024*

AMICK Consultants Limited

