

# Tree Management Plan

## **ENO/ANKARA LANDS NORTH OAKVILLE**

for:

**ENO INVESTMENTS LIMITED AND  
ANKARA REALTY LIMITED**

by:

**LGL Limited  
environmental research associates**

OCTOBER 2021

LGL FILE NO. TA9008



*prepared by:*



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	October 7, 2021		3, Revised Draft (Revised Draft Plan)
	October 15, 2021		4, Final Draft

**LGL FILE NO. TA9008**

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## 1.0 INTRODUCTION

LGL Limited was retained by Eno Investments Limited and Ankara Realty Limited to prepare a Tree Management Plan for a residential development proposed in the Town of Oakville, Regional Municipality of Halton, between Neyagawa Boulevard to the west, Dundas Street to the south, Burnhamthorpe Road to the north, and Sixth Line to the east (Figure 1), herein referred to as the Eno/Ankara Lands. The objectives of this report are to identify tree resources and site characteristics for consideration during design of the draft plan and include:

- A survey and a detailed description including mapping of the existing tree resources in or near proposed work zone;
- Identification of trees that may pose a constraint to the proposed work zone;
- Identification and quantification of trees that require removal to facilitate the proposed work zone; and,
- Specification of the type and locations of tree protection zone and fencing.

The information, interpretation and analysis contained within this Assessment are to be used solely for the purposes outlined within this Assessment. This Assessment is for the exclusive use of Eno Investments Limited and Ankara Realty Limited.

## 2.0 METHODOLOGY

### 2.1 TREE INVENTORY

Oakville’s Tree Protection By-Law (No. 2017-038) regulates or prohibits the injury or destruction of trees on private property. *Exceptions* Section 5. (f) confirms that this submission is not regulated by the By-law “for the purpose of satisfying a condition to the approval of a site plan, a plan of subdivision, a plan of condominium, or a consent under sections 41, 51, and 53 of the Planning Act, or as a requirement of a site plan or subdivision agreement under those sections of the Act.” *Exceptions* Section 5. (j) “in the sole discretion of the Director of Development Engineering for the Town of Oakville, as a result of activities or matters undertaken as part of the approved process for the Environmental Implementation and Functional Servicing requirements for the lands in the North Oakville Secondary Plan area other than the lands designated Natural Heritage System” is also relevant as this property is subject to an ongoing Environmental Implementation Report and Functional Servicing Plan. Relevant definitions used in this report include:

- *Boundary Tree* means a tree whose trunk is growing across one or more property lines;
- *Dead* means a tree that has no living tissue;
- *DBH* means the diameter at breast height, measured outside the bark, of the trunk of a tree, measured at 1.37 metres above grade;
- *Dripline* means the vertical projection of the outermost edge of a tree’s canopy;
- *Good Arboricultural Practices* means the proper implementation of removal, renewal and maintenance activities known to be appropriate for individual trees in and around urban areas to minimize detrimental impacts on urban forest values and includes pruning of trees to remove dead limbs, maintain structural stability and balance, or to encourage their natural form, provided that such pruning is limited to the appropriate removal or not more than 25% of the live branches or

limbs of a tree, but does not include pruning to specifically increase light or space;

- *High Risk Tree* means there is a high risk of tree failure with significant consequences, but tree failure is not imminent as assessed and identified by an arborist report; and,
- *Tree* means a self-supporting woody plant which will reach a height of at least 4.5 metres at physiological maturity.

The Subject Lands were investigated by LGL’s ISA Certified Arborist (Trent Meyers) on April 22, 24, 29, and May 5<sup>th</sup>, 2020. Trees on the Subject Lands were surveyed using the following methodology for tree inventory and impact assessment:

- **Species:** each tree was identified to species level using common and scientific names;
- **Size:** diameter at breast height (DBH) was recorded in centimetres, measured 1.37 metres above ground level consistent with International Society of Arboriculture standards. All live trees greater than 10cm were inventoried;
- **Health:** each tree surveyed was assigned a ranking of poor, fair or good health, based on trunk integrity, crown structure, and apparent vigour. Note that surveys were conducted from ground level only and did not include excavation of root systems or aerial inspections of the canopy;
- **Site identification:** each tree was marked with a numbered ISA-approved aluminum tag. Note that part of the Subject Lands shared south boundary had been inventoried prior to 2017 under separate submission/proponent. Tags remaining from that study were used in this inventory, where possible, rather than affixing new tags;
- **Species were screened against the Ontario *Endangered Species Act, 2007* to determine if special regulations apply;**
- **Geographic location:** the location of each tree was recorded with a differential TopCon GRS1 GPS unit plotted in the appended figures with a horizontal accuracy of 1-2 metres. Identification numbers in the figures correspond with identification numbers in the inventory table (Appendix A); and,
- **Impact assessment:** listing trees identified for removal and protection in relation to the proposed draft plan.

## 2.2 TREE SPECIES AT RISK SCREENING

Tree species at risk screening was completed by comparing inventory data against the *Endangered Species Act, 2007* species listings.

## 3.0 RESULTS

### 3.1 TREE INVENTORY

The Eno/Ankara lands are primarily composed of cropped field bordered by hedgerows, two small cultural thickets outside of the Natural Heritage System and afforded protection (consistent with North Oakville Creeks Subwatershed Study, North Oakville East Secondary Plan, and the Environmental Implementation Report/Functional Servicing Study).

A total of 872 trees were surveyed within the Subject Lands. Trees ranged in size from 10 centimeters to

the largest tree documented at 146 centimeters DBH. Of those, 261 were equal to or greater than 15 cm diameter. A total of 18 tree species were inventoried to species level. Two were identified only to genus (*Pyrus* and dead *Fraxinus* trees) A list of species and their relative abundance can be found below in Table 1 and Figure 2.

**Table 1 Species Abundance of Inventoried Trees**

Scientific Name	Common Name	Quantity	Composition (%)
<i>Acer negundo</i>	Manitoba Maple	90	13.8
<i>Acer rubrum</i>	Red Maple	4	0.6
<i>Acer saccharinum</i>	Silver Maple	9	1.4
<i>Acer saccharum ssp. saccharum</i>	Sugar Maple	73	11.2
<i>Carya cordiformis</i>	Bitternut Hickory	2	0.3
<i>Carya ovata var. ovata</i>	Shagbark Hickory	57	8.7
<i>Fraxinus Sp.</i>	Ash	45	6.9
<i>Pyrus Sp.</i>	Fruit tree	50	7.7
<i>Juglans nigra</i>	Black Walnut	5	0.8
<i>Ostrya virginiana</i>	Ironwood	28	4.3
<i>Pinus strobus</i>	White Pine	11	1.7
<i>Prunus serotina</i>	Black Cherry	1	0.2
<i>Quercus alba</i>	White Oak	84	12.9
<i>Quercus macrocarpa</i>	Bur Oak	4	0.6
<i>Quercus rubra</i>	Red Oak	75	11.5
<i>Thuja occidentalis</i>	Eastern White Cedar	4	0.6
<i>Tilia americana</i>	Basswood	37	5.7
<i>Tilia cordata</i>	Little Leaf Linden	38	5.8
<i>Ulmus americana</i>	White Elm	15	2.3
<i>Ulmus pumila</i>	Siberian Elm	21	3.2

A complete, detailed inventory of all surveyed trees is provided in Appendix A. Many of the Ash (*Fraxinus spp.*) were in fair to poor condition or dead due to Emerald Ash Borer (*Agrilus planipennis*) infestation.

Part of the wooded area in the south portions of the Subject Lands is included within the *Core Preserve Areas* (Core 5) as identified by the North Oakville Creeks Subwatershed Plan, 2006 (NOCSS) and the North Oakville East Secondary Plan. *Core Preserve Areas* include key natural features or groupings of key natural features, together with required buffers and adjacent lands intended to protect the function of those features and ensure the long-term sustainability of the NHS components within the urban context. The wooded area of Core 5 in the southwest portion of the Subject Lands (Figure 2d) has been characterized in the NOCSS as FOD5-2 Dry-Fresh Sugar Maple-Beech Deciduous Forest, and the wooded area in the adjacent to the southcentral portion of the Subject Lands has been characterized as FOD2-4 Dry-Fresh Oak Hardwood Deciduous Forest. The balance of the Subject Lands is currently agricultural fields with few narrow, linear hedgerows.

### 3.2 PRIVATELY OWNED BOUNDARY TREES

There are boundary trees on the Subject Lands/adjacent lands. Boundary trees cannot be removed unless permission is granted by the lawful property owner in conjunction with applicable permits issued by the Town of Oakville. Note that the adjacent parcel to the south; Mattamy’s Preserve North neighborhood, is also undergoing a development application. While written authorization must be obtained from the legal

owner, it is expected that tree removals along this boundary will be coordinated between respective landowners.

Several trees along the east property boundary are either on the subject property boundary or off site but within proximity such that site works may cause an impact. Tree impact mitigation is proposed where a development application is not imminent.

### **3.3 MUNICIPAL TREES**

Several municipal trees exist along the Burnhamthorpe Road West right-of-way and include volunteer pear, sugar maple, Eastern white cedar, and most are less than 15 cm dbh.

### **3.4 TREE SPECIES AT RISK - PROVINCIAL ENDANGERED SPECIES ACT**

Tree species listed under the *Endangered Species Act*, such as Butternut (*Juglans cinerea*), were not observed on or within 50m of the Subject Lands.

## **4.0 PROPOSED PLAN**

The proposed draft plan (April 2021) includes single detached, street townhouses, lane based townhouses, live/rent, high density block, neighborhood park, elementary school, SWM pond (and inlet), natural heritage system, open space, various reserves, street network and Burnhamthorpe Road (William Halton Parkway) widening. Access from Burnhamthorpe Road is proposed through Carding Mill Drive Trail and two east/west streets to convey traffic.

## **5.0 IMPACT ASSESSMENT**

Trees within the proposed development limit were evaluated and prescribed with management actions based on criteria such as ownership, proximity/relation to development, grading and servicing. Recommendations for removal are based on conflict with the draft plan and/or poor health condition. The remainder of the surveyed trees are either outside the limit of the draft plan or are situated within the protected Core 5 area.

Impacts to trees can occur in a variety of forms including:

- complete removal of a tree;
- damage or removal of canopy limbs; and,
- compaction of soil surrounding the root system and partial or complete removal of root systems due to grading or excavation.

It is commonly considered that impacts of 25% or more to canopy and/or root systems will likely result in the eventual demise or failure of the tree. Removal of these trees is suggested in order to prevent future hazardous situations caused by deteriorating trees near the development. Appendix A includes rationale for removal or preservation based on specific conflicts identified through desktop analysis of tree location overlaid on draft plan details, as well as considerations of tree health. Anticipated tree removals are illustrated in Figures 3a-3l.

## 5.1 TREE REMOVALS

All trees within the subject lands but outside of the NHS are proposed for removal, consistent with the NOCSS and the NOE Secondary Plan. This includes a total of 261 trees greater or equal to 15 cm dbh.

## 6.0 TREE PROTECTION

Trees that are located on the legal property boundary are considered shared ownership and require written authorization from the appropriate landowner for their removal. All trees in the hedgerow along the south boundary are expected to be removed by both applicants (Eno/Ankara and Mattamy-Preserve North), as both applicants have submitted applications for site alteration.

Trees along the east boundary (e.g. 303, 304, 307, 308, 309, 313) are currently part of an occupied residence and shall be protected until development of those lands proceed. This is particularly important as tree #303, 307, 309 have limbs overhanging the subject lands and may require mitigative pruning to avoid damage/conflict with machinery. Discussions should be held on site with the contractor to determine the likelihood of machine conflict, pruning, and the possibility of avoidance.

### 6.1 TREE PROTECTION ZONES

Tree Protection Zones (TPZ) and Tree Protection Fence (TPF) have been identified on Figures 3a-3l. The TPF shall be installed prior to ground-breaking. The Tree Protection Zone is the minimum setback required to maintain the structural integrity of the tree's anchor roots, based on generally accepted arboricultural principles and Town of Oakville specifications of tree protection (Appendix B). No grade change, storage or materials or equipment is permitted within the TPZ.

### 6.2 TREE PROTECTION FENCE

Tree protection fence must be erected prior to the commencement of any construction activity that may injure a tree on the site and are to remain in place throughout the entire duration of the project. If fill or excavated material must be temporarily located near the tree protection barrier, a wooden barrier must be used to ensure no material enters the TPZ. See Appendix A for a list of trees requiring avoidance/protection. In this case, site perimeter fencing/erosion control fencing is recommended to protect off-site trees while permitting site works to occur within the subject lands.

## 7.0 RECOMMENDATIONS

Mitigation measures shall be implemented to minimize impacts to trees adjacent to the construction zone and local wildlife. The following recommendations conform to good arboricultural practices and responsible natural heritage impact mitigation:

- Site works shall conform to the recommendations of the governing Environmental Implementation Report (EIR). As the EIR has not yet been approved, the recommendations herein may be revised to conform to an approved EIR;
- No trees shall be pruned or removed or impacted without prior approval from the Town;
- The Site Supervisor, design engineers, landscape architects shall be familiar with the Town's Tree Protection standards and understand the purpose and function of Tree Protection Zones (TPZ);



- It is the responsibility of the project team to become directly acquainted with the site, to carefully examine the location of the proposed work, and to notify the Town of any discrepancies in the site conditions;
- Construction equipment shall not access the NHS;
- No fill, machinery, chemicals, fuel or materials are to be placed within the NHS;
- Heavy machinery is not to be operated within NHS(including overhead swinging of machine arms);
- Any tree removals or pruning required is to be conducted by a qualified Arborist or Town Forester;
- Should any additional, incidental or accidental tree injuries occur during construction, a qualified Arborist or Town Forester should be consulted to determine whether additional mitigation measures should be employed;
- Delineation of the TPF's shall be clearly defined on drawings and on the site;
- The tree protection hoarding/barrier must be erected prior to commencement of work;
- Any area inside the TPF must be left undisturbed (including overhead), other than the prescribed pruning;
- Construction materials or equipment are not to be stored within the TPZ of the trees;
- No signs or objects should be displayed or affixed to any retained trees;
- Disposal of liquids shall not occur within the TPZ;
- Tree protection measures are to remain in place until all site works have been completed, at which point tree protection measures shall be removed;
- Periodic inspections of TPZ's during construction and assessments of hazard potential post-construction should be conducted to ensure adequate protection is provided for trees identified for preservation and to ensure the risk of hazard is kept to a minimum;
- For project planning and scheduling purposes, removal of vegetation should not occur during the autumn months, outside of April 1-September, to mitigate impacts to breeding birds and roosting bats. In the event that vegetation removal must occur during this mitigation period (April-September), the proponent shall have a qualified biologist conduct, at a minimum, a nest search of the vegetated areas prior to vegetation removal. A nest search does not guarantee that tree clearing can proceed. Consultation with Environment Canada and/or the Ministry of Environment, Conservation and Parks (MECP) may be required depending on the results of the nest search and that a nest search does not guarantee that vegetation removals will be permitted. Temporary avoidance or other mitigation may be required to minimize impacts on wildlife.

## 8.0 CONCLUSION

A tree inventory and preservation plan has been prepared for the Eno/Ankara Lands as part of a development application. The tree inventory can be summarized as:

- A total of 872 trees were surveyed, ranging from 10 cm to 146 cm dbh;
- A total of 606 of those are greater than or equal to 15 cm dbh;
- A total of 261 greater than or equal to 15 cm and are proposed for removal and subject to the Town of Oakville review;
- The prescribed removals are part of agricultural field boundary hedgerows, and two small cultural thickets;
- Tree protection has been specified to protect the NHS at the southwest portion of the subject lands and off-site trees east of the subject lands; and
- Species at Risk trees were not found within 50 metres of the Subject Lands.

A draft plan has been prepared which proposes removal of hedgerow trees and preservation of trees within the natural heritage system and those that are off site. Mitigation has been designed to protect selected trees, to responsibly plan for 261 tree removals, and to schedule timing of tree removals to minimize or avoid impacts to wildlife.

## **9.0 DISCLAIMER**

### **9.1 LIMITATIONS OF THIS ASSESSMENT**

This Assessment is based on the circumstances and observations as they existed at the time of the site inspection of the Client's Property and the trees situate thereon and upon information provided by the Client to LGL Limited. The opinions in this Assessment are given based on observations made and using generally accepted professional judgment, however, because trees and plants are living organisms and subject to change, damage and disease, the results, observations, recommendations, and analysis as set out in this Assessment are valid only as at the date any such testing, observations and analysis took place and no guarantee, warranty, representation or opinion is offered or made as to the length of the validity of the results, observations, recommendations and analysis contained within this Assessment. As a result, the Client shall not rely upon this Assessment, save and except for representing the circumstances and observations, analysis and recommendations that were made as at the date of such inspections. It is recommended that the trees discussed in this Assessment should be re-assessed periodically.

### **9.2 RESTRICTION OF ASSESSMENT**

The Assessment carried out was restricted to the Property. No assessment of any other trees or plants has been undertaken by LGL. LGL is not legally liable for any other trees or plants on the Property except those expressly discussed herein. The conclusions of this Assessment do not apply to any areas, trees, plants or any other property not covered or referenced in this Assessment.

### **9.3 PROFESSIONAL RESPONSIBILITY**

In carrying out this Assessment, LGL Limited and any Assessor appointed for and on behalf of LGL Limited to perform and carry out the Assessment has exercised a reasonable standard of care, skill and diligence as would be customarily and normally provided in carrying out this Assessment. The Assessment has been made using accepted arboricultural techniques. These include a visual examination of each tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of insect attack, discolored foliage, the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the current or planned proximity of property and people. Except where specifically noted in the Assessment, none of the trees examined on the property were dissected, cored, probed, or climbed and detailed root crown examinations involving excavation were not undertaken.

While reasonable efforts have been made to ensure that the trees recommended for retention are healthy, no guarantees are offered, or implied, that these trees, or all parts of them will remain standing. It is professionally impossible to predict with absolute certainty the behaviour of any single tree or group of trees, or all their component parts, in all given circumstances. Inevitably, a standing tree will always pose some risk. Most trees have the potential to fall, lean, or otherwise pose a danger to property and persons in the event of adverse weather conditions, and this risk can only be eliminated if the tree is removed.

Without limiting the foregoing, no liability is assumed by LGL or its directors, officers, employers, contractors, agents or Assessors for:

- a) any legal description provided with respect to the Property;
- b) issues of title and or ownership respect to the Property;
- c) the accuracy of the Property line locations or boundaries with respect to the Property;
- d) the accuracy of any other information provided to LGL by the Client or third parties;
- e) any consequential loss, injury or damages suffered by the Client or any third parties, including but not limited to replacement costs, loss of use, earnings and business interruption;  
and,
- f) the unauthorized distribution of the Assessment.

#### **9.4 GENERAL**

Any plans and/or illustrations in this Assessment are included only to help the Client visualize the issues in this Assessment and shall not be relied upon for any other purpose.

## **Figures**

Town of Milton

Town of Oakville

Highway 407

Burnhamthorpe Road West

Burnhamthorpe Road East

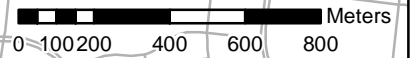
Neyagawa Boulevard

6th Line

Dundas Street West


Dundas Street East

River Glen Boulevard



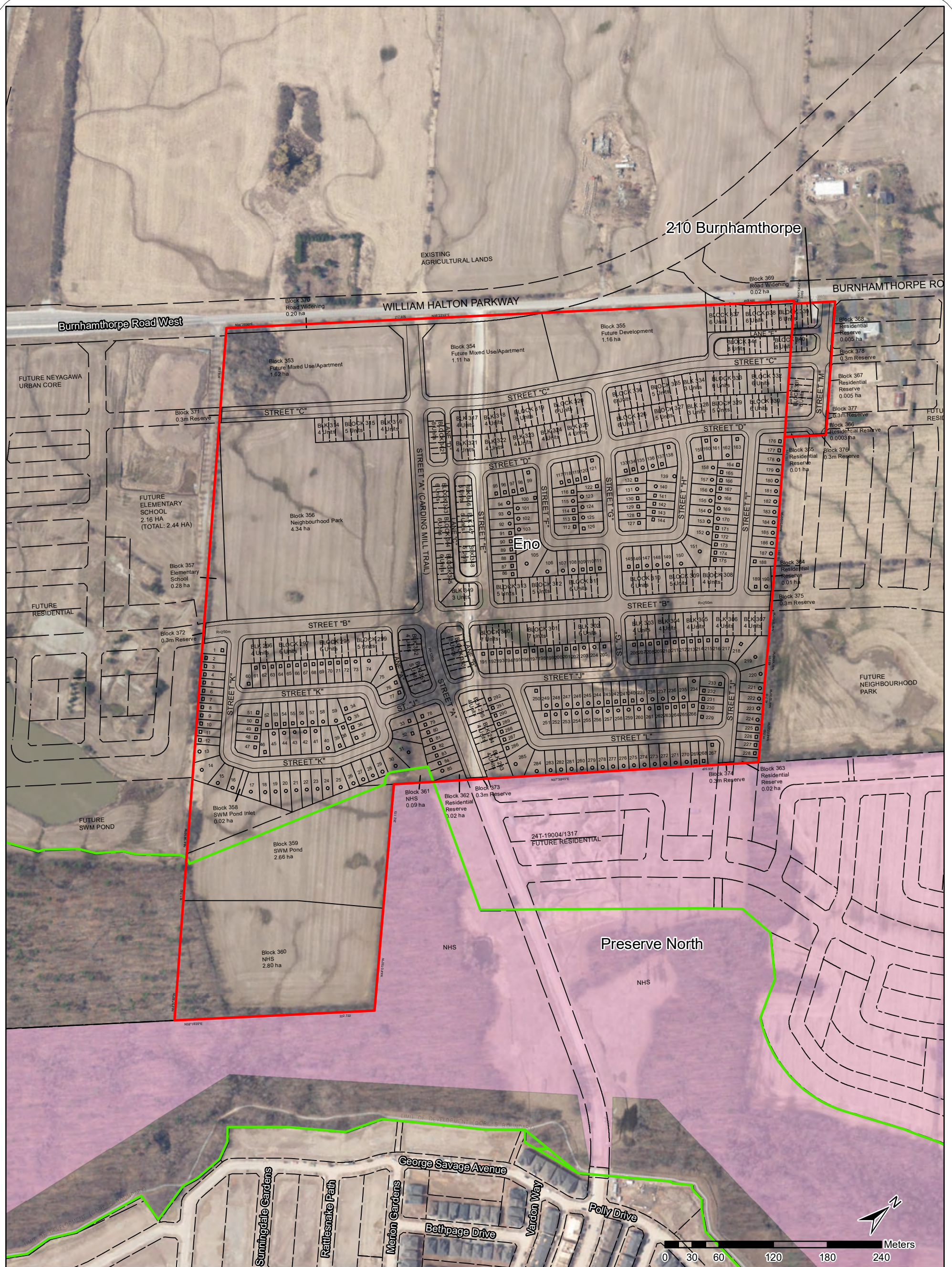
**ENO Remington North Oakville**

Key Map




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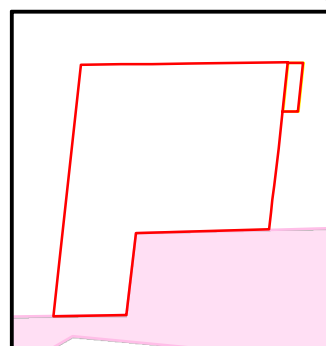
Project	TA9008	Figure	1
Date	October 2021	Prepared By	KC
Scale	1:20,000	Verified By	MJO



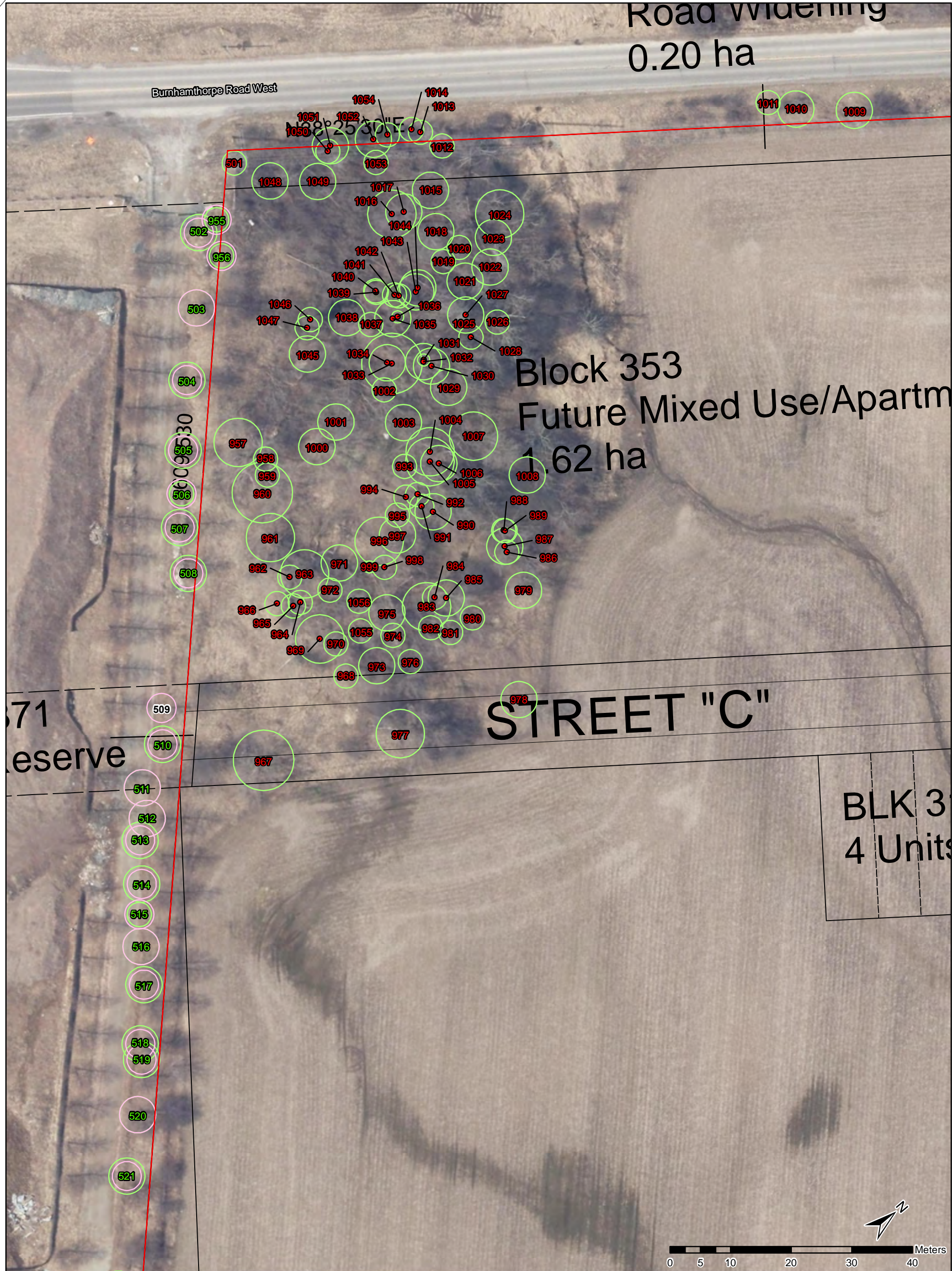
**Eno Remington North Oakville**  
Study Area

-  Subject Property
-  Preserve North Property
-  NHS







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<b>Project</b>	TA9008	<b>Figure</b>	2
<b>Date</b>	September 2021	<b>Prepared By</b>	KC
<b>Scale</b>	1:4,000	<b>Verified By</b>	MJO

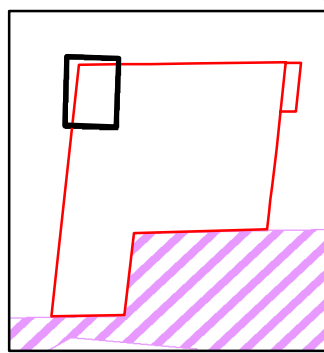


**Eno Remington North Oakville**  
Tree Management Plan

-  Property Boundary
-  Tree Identified for Retention
-  Tree Identified for Removal
-  Dead Tree
-  Dripline
-  Tree Protection Zone

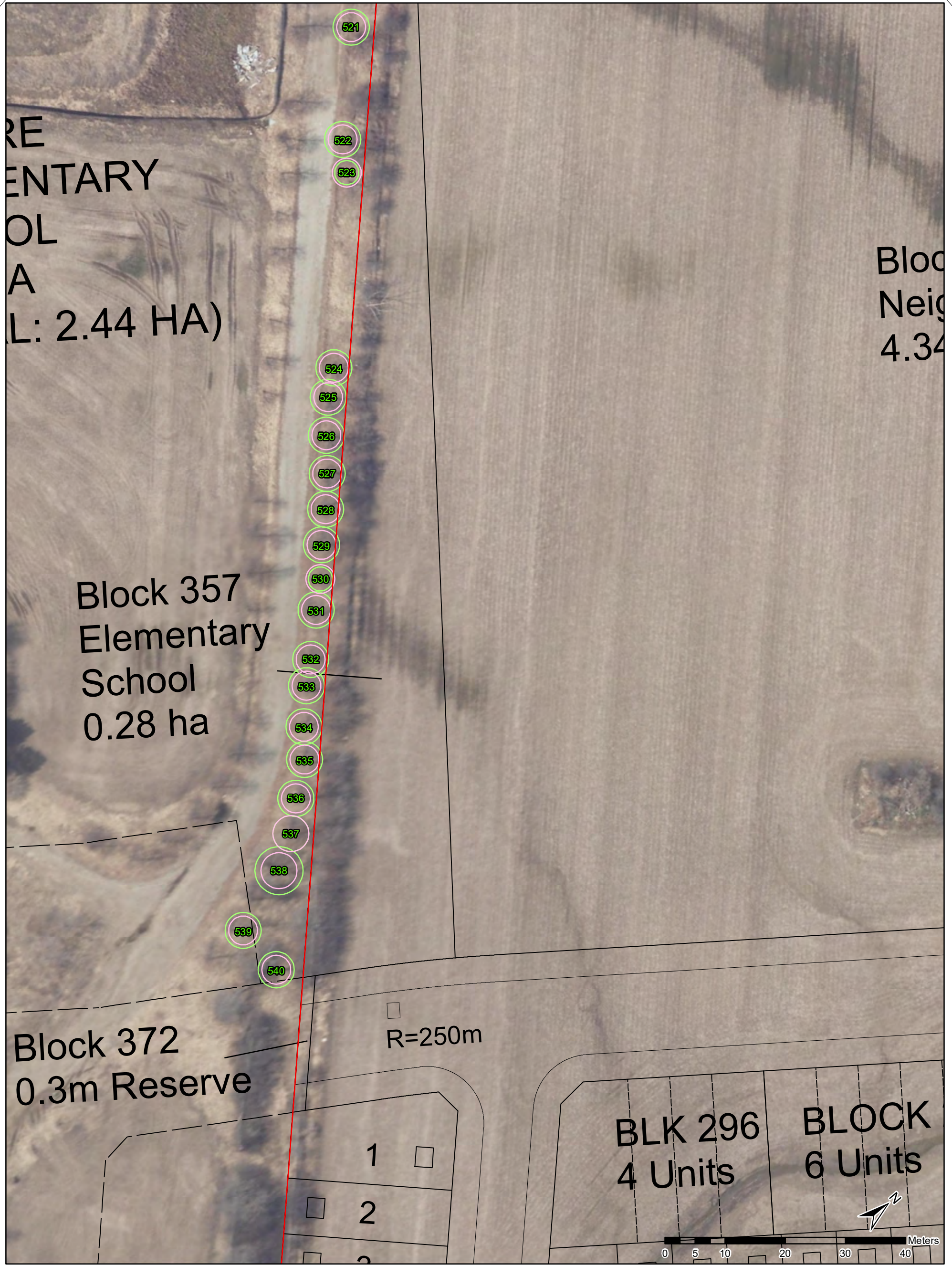
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-  Off-site trees inventoried under separate proponent/application-to be protected until applicable removal permits issued

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community











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Date	October 2021	Prepared By	KC
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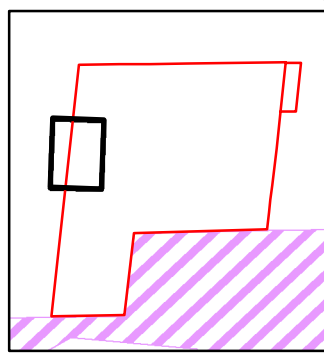


**Eno Remington North Oakville**  
Tree Management Plan

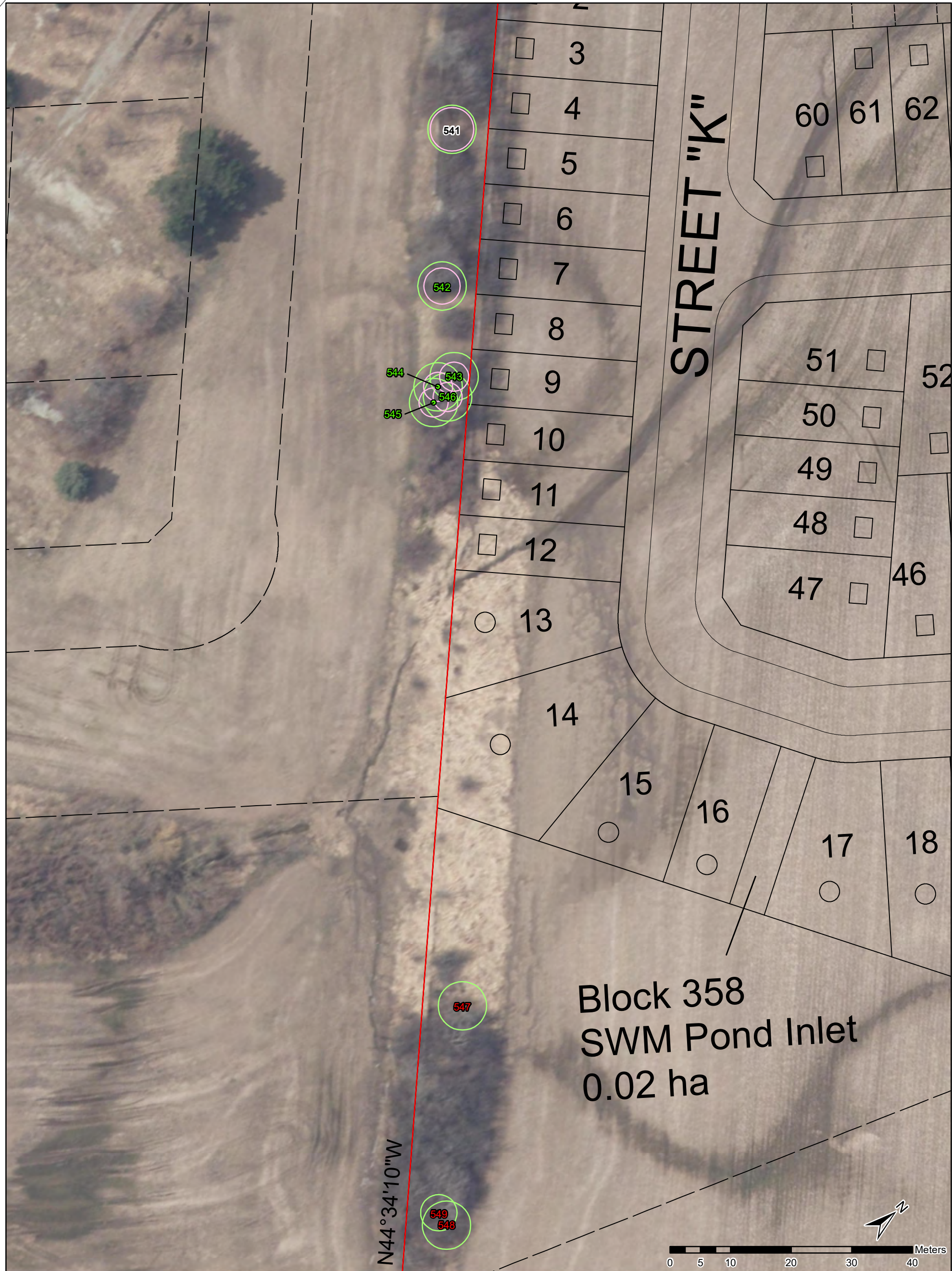
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





Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





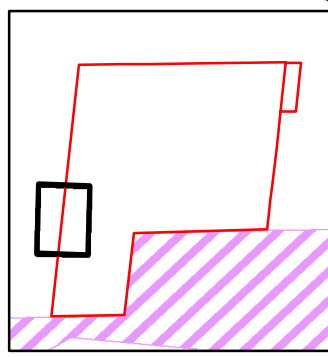
<b>Project</b>	TA9008	<b>Figure</b>	3b
<b>Date</b>	October 2021	<b>Prepared By</b>	KC
<b>Scale</b>	1:600	<b>Verified By</b>	MJO



**Eno Remington North Oakville**  
Tree Management Plan

-  Property Boundary
-  Tree Identified for Retention
-  Tree Identified for Removal
-  Dead Tree
-  Dripline
-  Tree Protection Zone

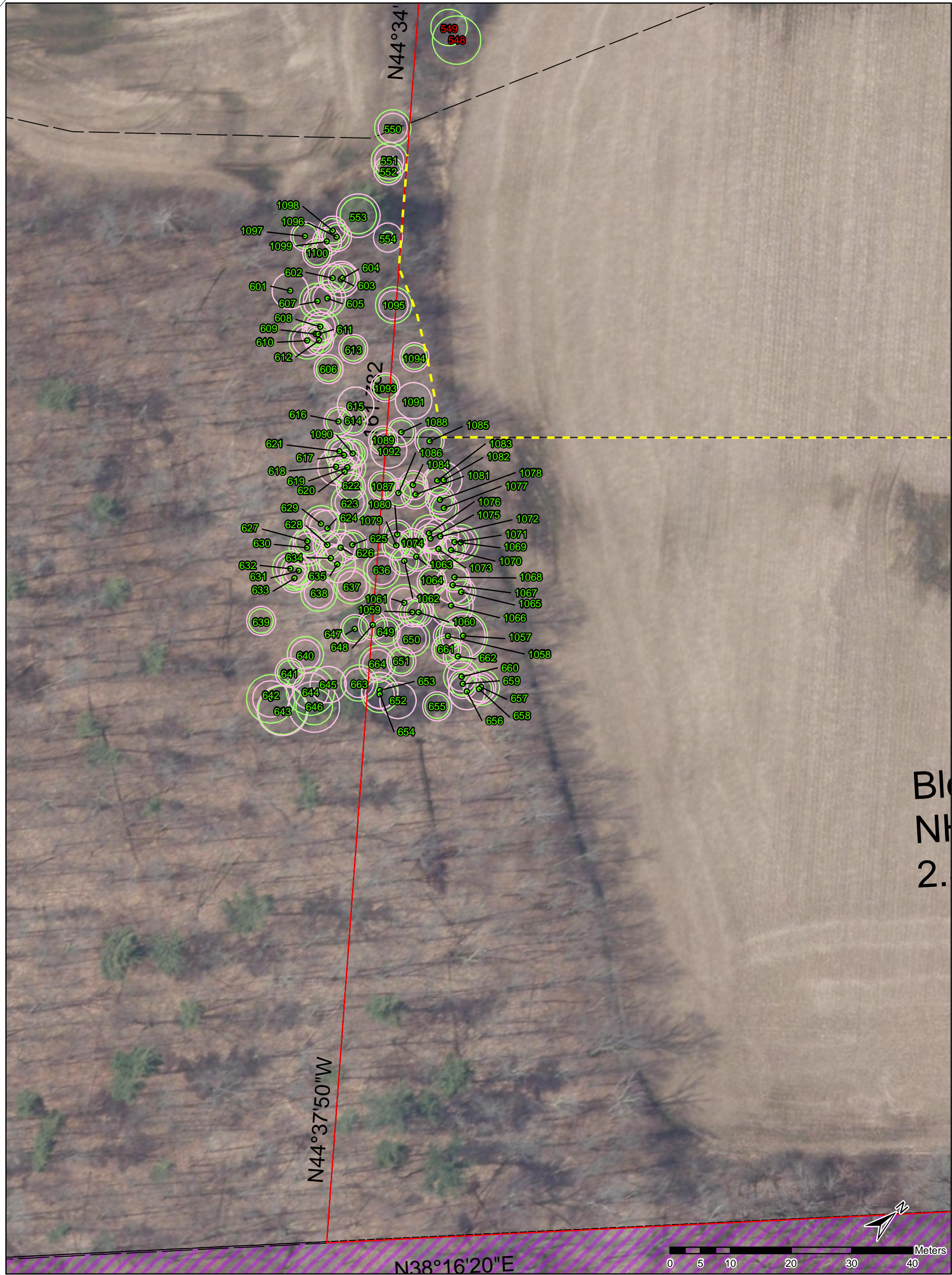
-  Tree Protection / Erosion and Sedimentation Control Fence
-  Off-site trees inventoried under separate proponent/application-to be protected until applicable removal permits issued



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community











<b>Project</b>	TA9008	<b>Figure</b>	3c
<b>Date</b>	October 2021	<b>Prepared By</b>	KC
<b>Scale</b>	1:600	<b>Verified By</b>	MJO



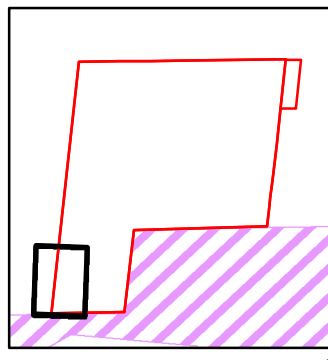
BL  
NH  
2.

### Eno Remington North Oakville Tree Management Plan

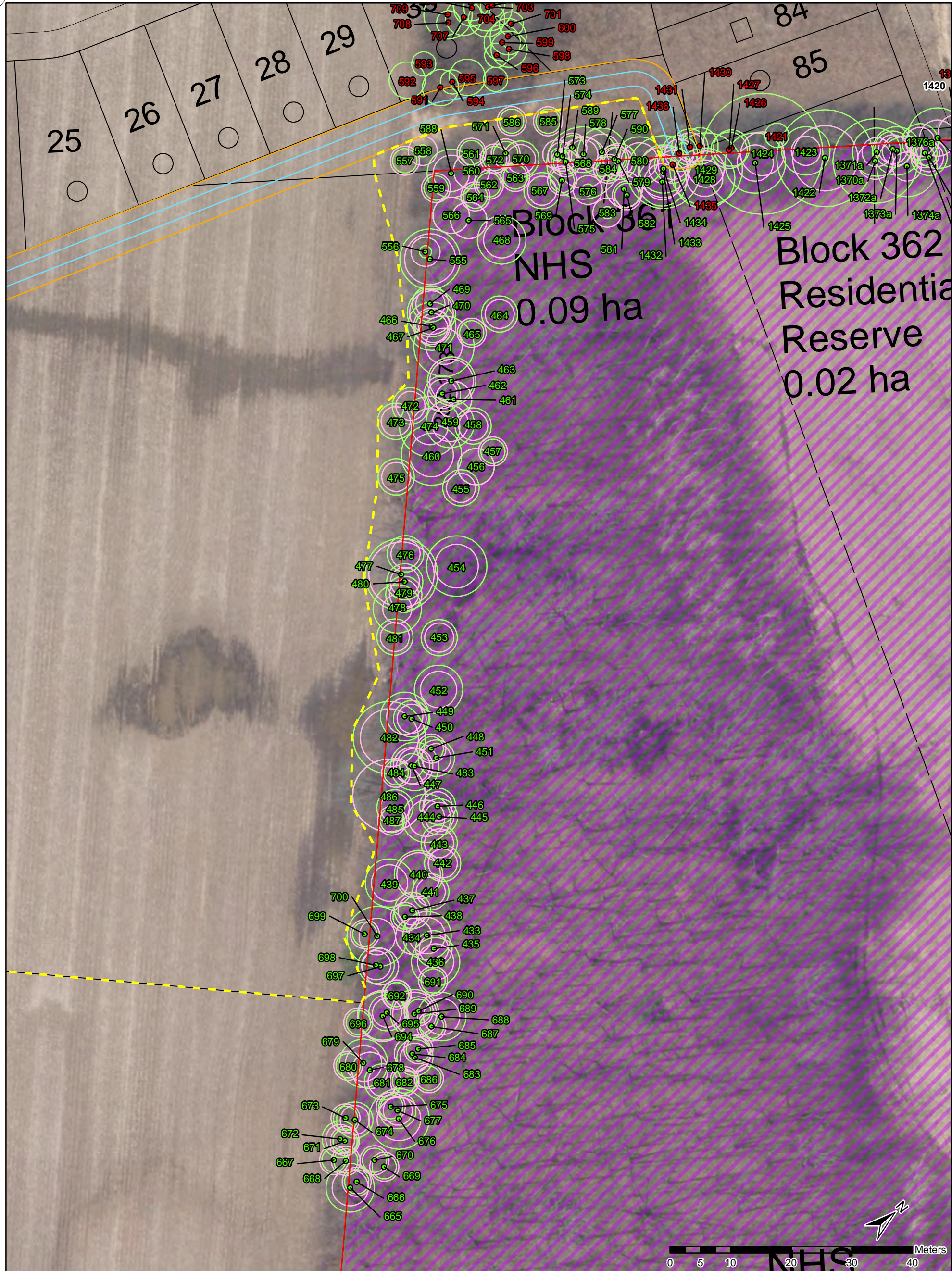
-  Property Boundary
-  Tree Identified for Retention
-  Tree Identified for Removal
-  Dead Tree
-  Dripline
-  Tree Protection Zone

-  Tree Protection / Erosion and Sedimentation Control Fence
-  Off-site trees inventoried under separate proponent/application-to be protected until applicable removal permits issued







Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community







Project	TA9008	Figure	3d
Date	October 2021	Prepared By	KC
Scale	1:600	Verified By	MJO

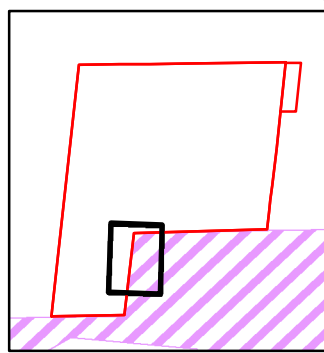


**Eno Remington North Oakville**  
Tree Management Plan

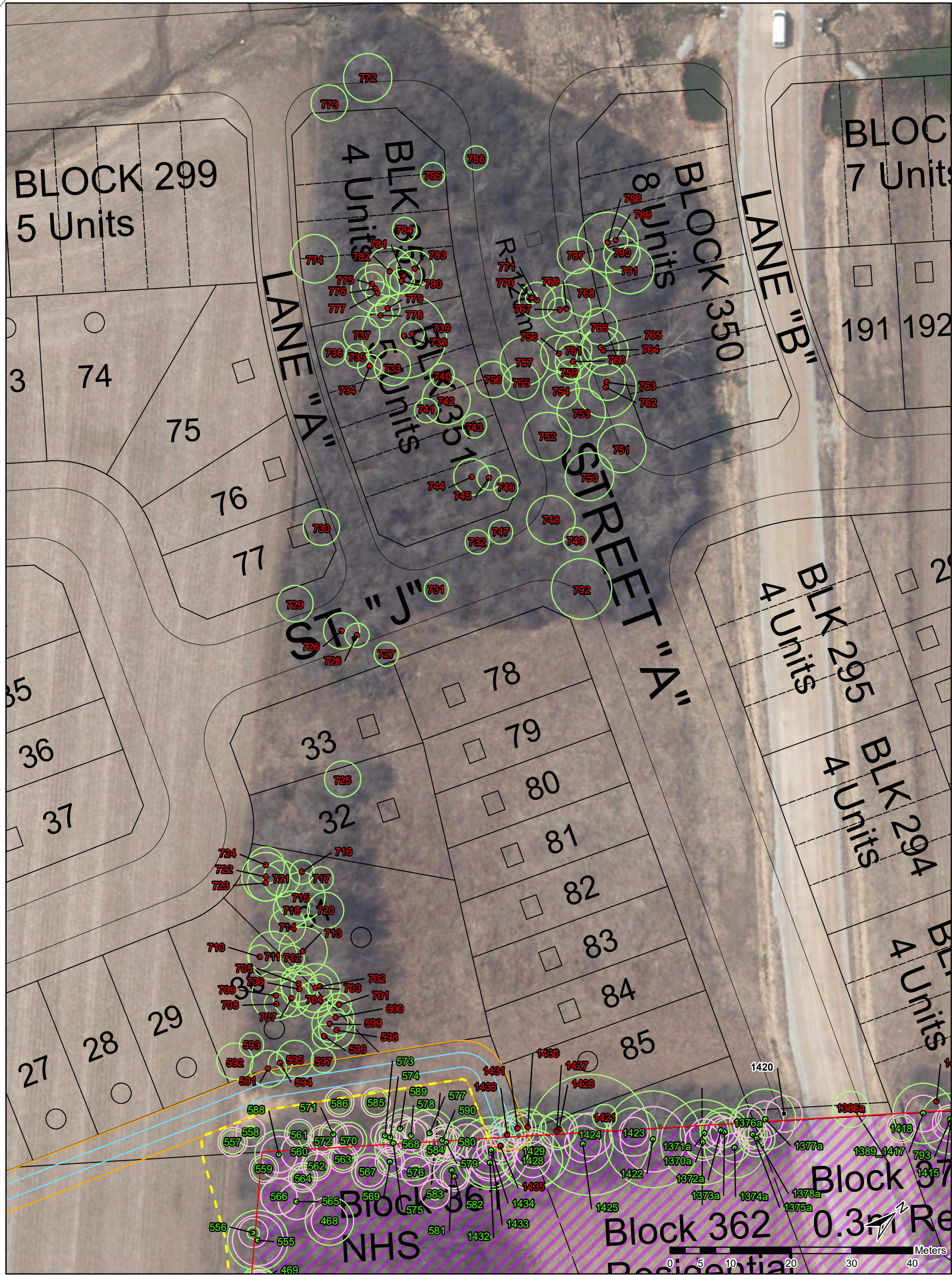
-  Property Boundary
-  Tree Identified for Retention
-  Tree Identified for Removal
-  Dead Tree
-  Dripline
-  Tree Protection Zone

-  Tree Protection / Erosion and Sedimentation Control Fence
-  Off-site trees inventoried under separate proponent/application-to be protected until applicable removal permits issued
-  Expected Disturbance Limit
-  Proposed Trail







Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community







Project	TA9008	Figure	3e
Date	October 2021	Prepared By	KC
Scale	1:600	Verified By	MJO

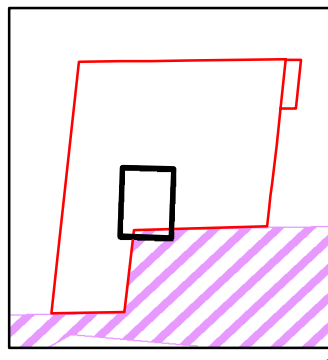


**Eno Remington North Oakville**  
Tree Management Plan

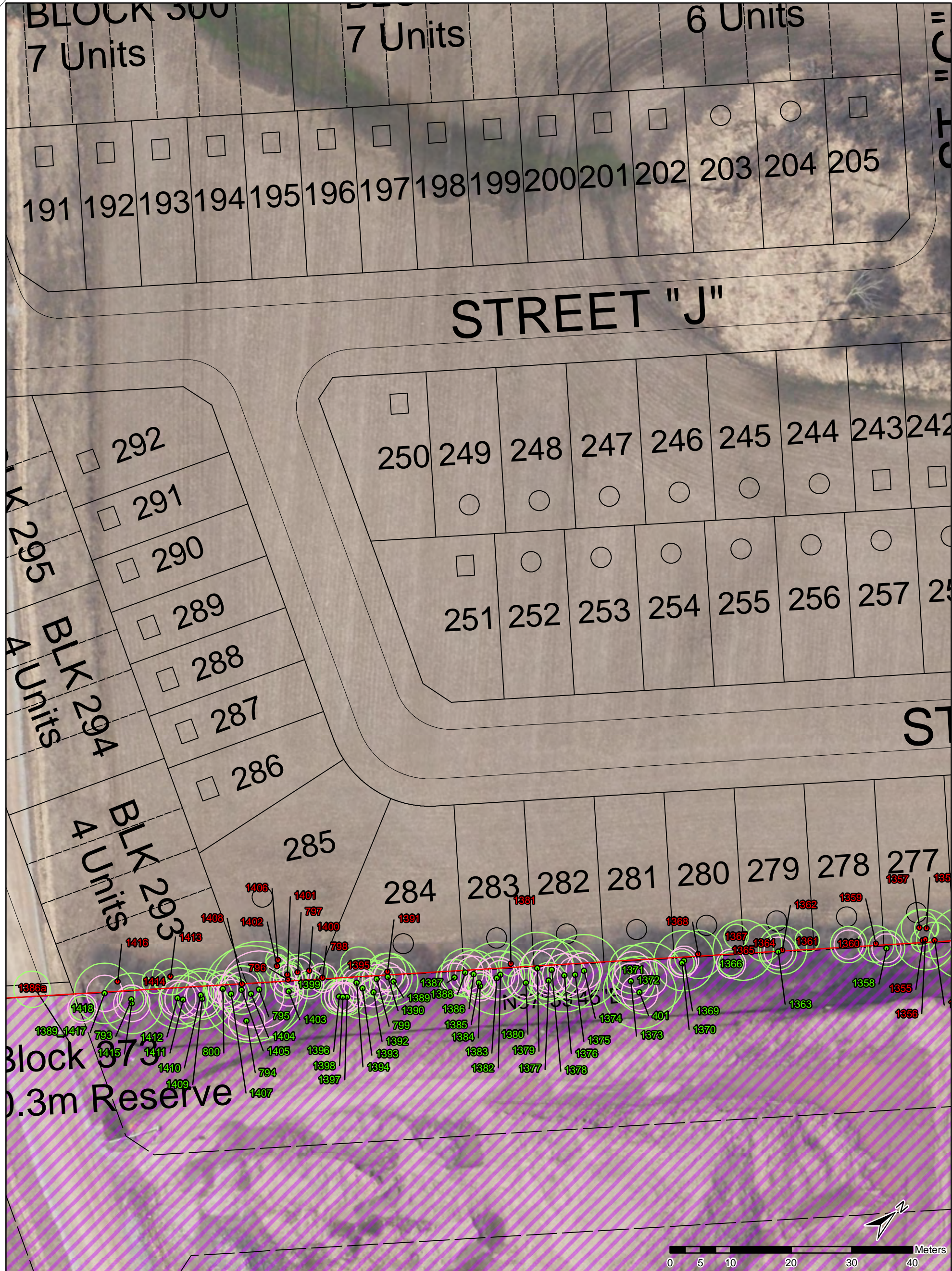
-  Property Boundary
-  Tree Identified for Retention
-  Tree Identified for Removal
-  Dead Tree
-  Dripline
-  Tree Protection Zone

-  Tree Protection / Erosion and Sedimentation Control Fence
-  Off-site trees inventoried under separate proponent/application-to be protected until applicable removal permits issued
-  Expected Disturbance Limit
-  Proposed Trail









Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



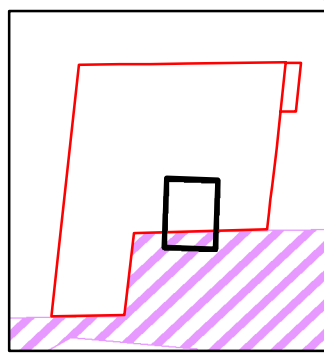
Project	TA9008	Figure	3f
Date	October 2021	Prepared By	KC
Scale	1:600	Verified By	MJO



**Eno Remington North Oakville**  
Tree Management Plan

-  Property Boundary
-  Tree Identified for Retention
-  Tree Identified for Removal
-  Dead Tree
-  Dripline
-  Tree Protection Zone
-  Tree Protection / Erosion and Sedimentation Control Fence
-  Off-site trees inventoried under separate proponent/application-to be protected until applicable removal permits issued

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Project	TA9008	Figure	3g
Date	October 2021	Prepared By	KC
Scale	1:600	Verified By	MJO

STREET "B"

R-250M

BLK 303  
4 Units

BLK 304  
4 Units

BLK 305  
4 Units

BLK 306  
4 Units

ST. "G"

205 206 207 208 209 210 211 212 213 214 215 216 217 218

823  
822

243 242 241 240 239 238 237 236 235 234

233

232

231

230

229

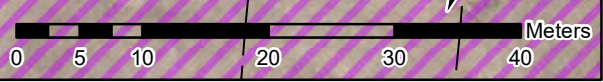
STREET "J"

257 258 259 260 261 262 263 264 265 266

STREET "L"

278 277 276 275 274 273 272 271 270 269 268 267

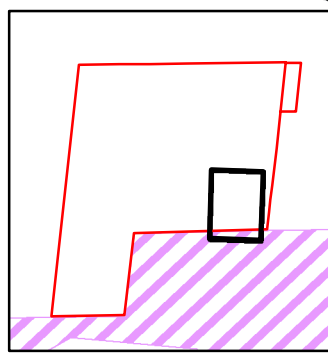
Block 374  
0.3m Reserv



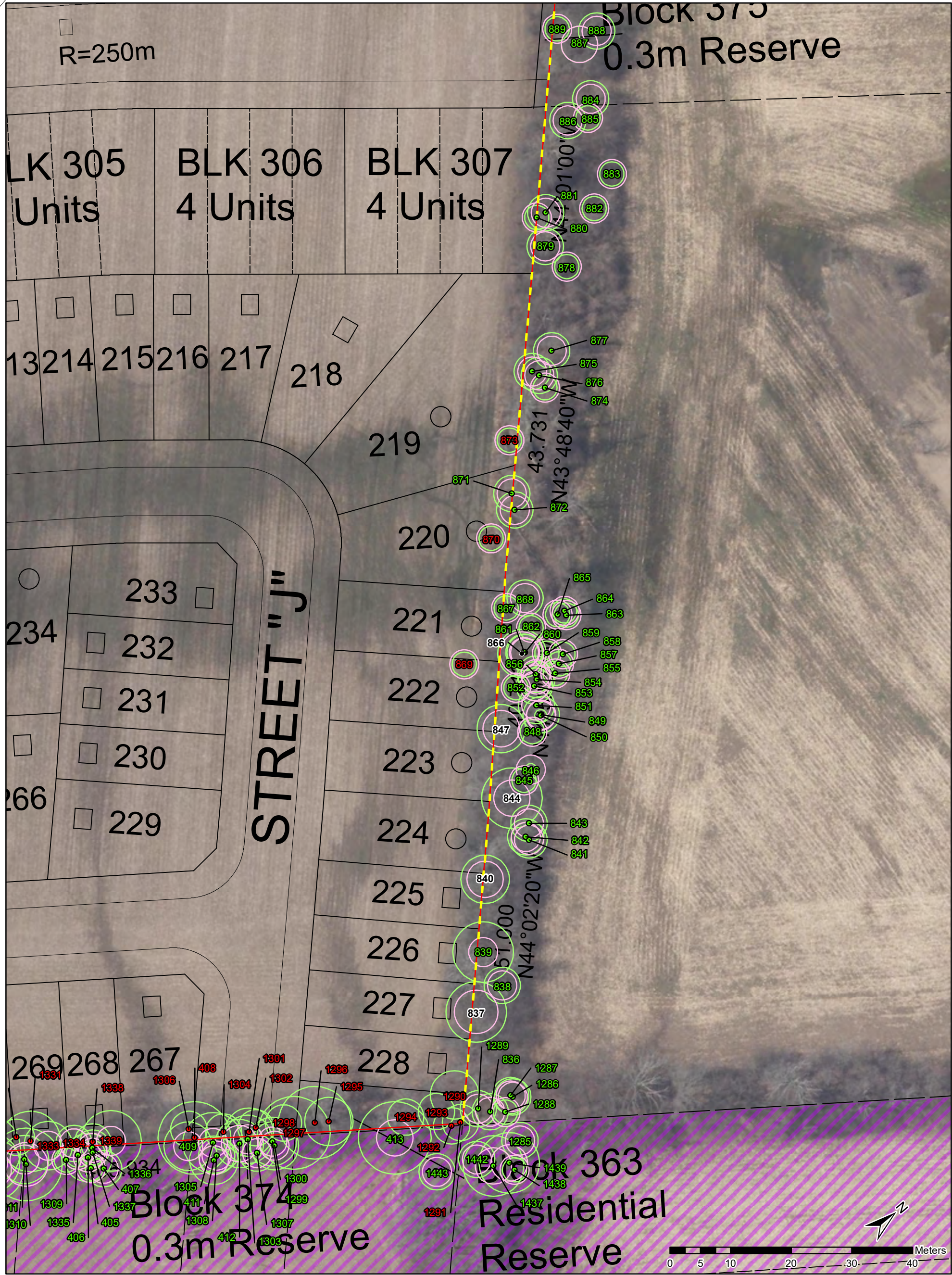
**Eno Remington North Oakville**  
Tree Management Plan

- Property Boundary
- Tree Identified for Retention
- Tree Identified for Removal
- Dead Tree
- Dripline
- Tree Protection Zone
- Tree Protection / Erosion and Sedimentation Control Fence
- Off-site trees inventoried under separate proponent/application-to be protected until applicable removal permits issued

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Project	TA9008	Figure	3h
Date	October 2021	Prepared By	KC
Scale	1:600	Verified By	MJO

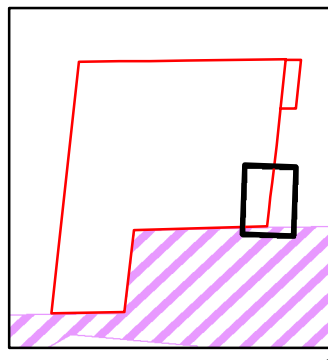


**Eno Remington North Oakville**  
Tree Management Plan

- Property Boundary
- 512 Tree Identified for Retention
- 547 Tree Identified for Removal
- 840 Dead Tree
- Dripline
- Tree Protection Zone

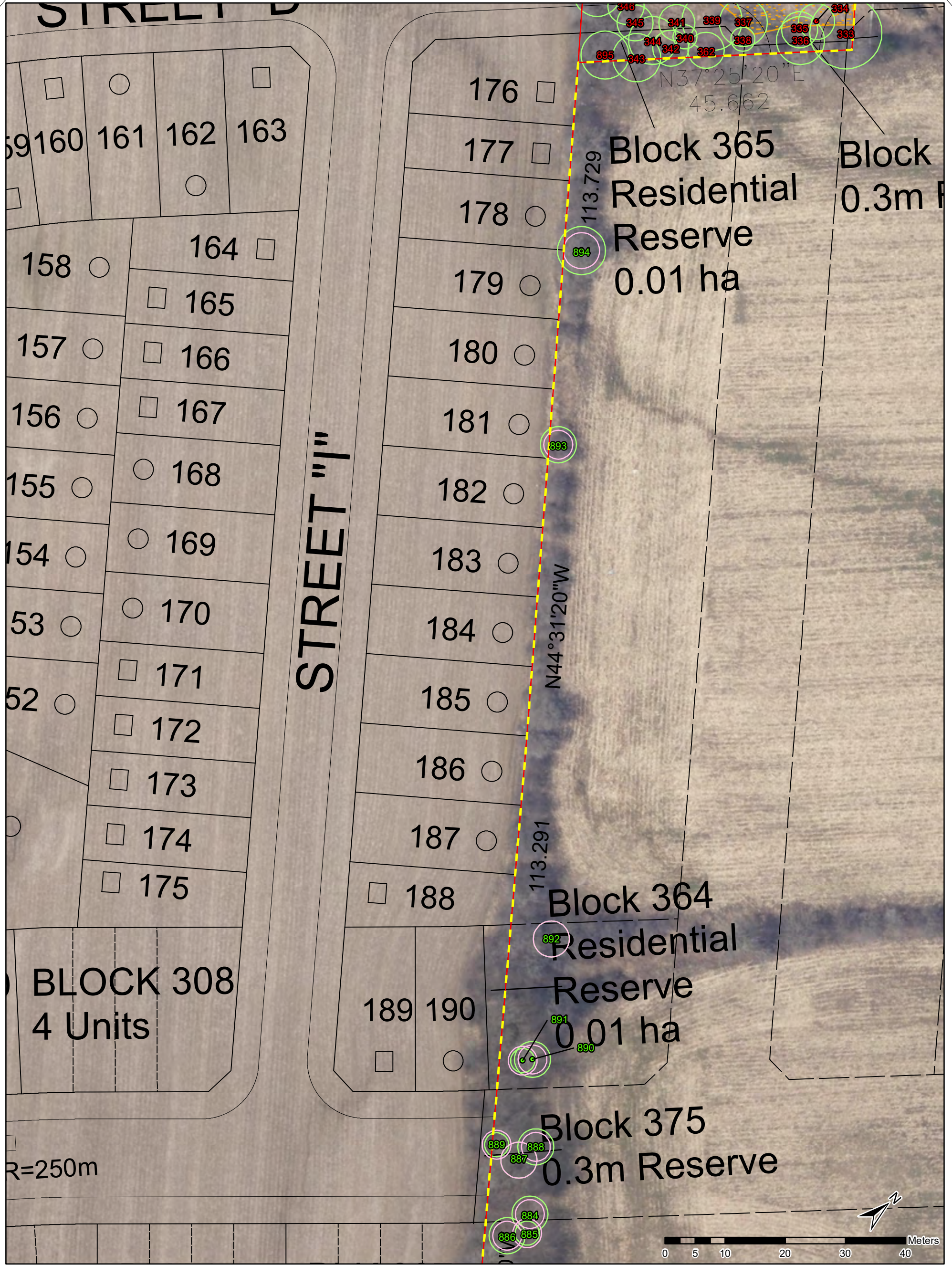
- Tree Protection / Erosion and Sedimentation Control Fence
- Off-site trees inventoried under separate proponent/application-to be protected until applicable removal permits issued

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



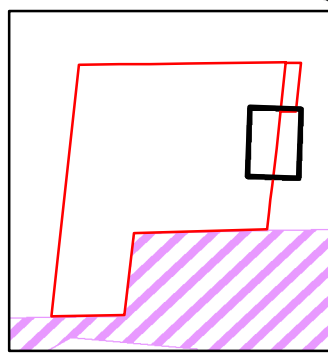
Project	TA9008	Figure	3i
Date	October 2021	Prepared By	KC
Scale	1:600	Verified By	MJO





**Eno Remington North Oakville**  
Tree Management Plan

-  Property Boundary
-  Tree Identified for Retention
-  Tree Identified for Removal
-  Dead Tree
-  Dripline
-  Tree Protection Zone
-  Tree Protection / Erosion and Sedimentation Control Fence
-  Area Disturbed by Soil Remediation
-  Off-site trees inventoried under separate application. Proposed tree removals coordinated with Eno Lands but subject to unique permit issuance.



Project	TA9008	Figure	3j
Date	October 2021	Prepared By	KC
Scale	1:600	Verified By	MJO

Block 369  
Road Widening  
0.02 ha

N44°58'40"W  
3.069

Burnhamthorpe Road West

N37°29'00"E  
45.755

413.465

BLOCK 337  
Units

BLOCK 338  
6 Units

BLOCK 339  
6 Units

Block 3  
Reserve  
Reserve

LANE "E"

BLOCK 341  
8 Units

BLOCK 340  
8 Units

0.005 h

STREET "C"

Block 3  
0.3m R

BLOCK 333  
Units

BLOCK 332  
6 Units

Block 3  
Reserve  
Reserve  
0.005 h

BLOCK 329  
Units

BLOCK 330  
6 Units

Block 3  
0.3m Res

STREET "D"

BLOCK 331  
6 Units

Block 3  
Residential  
0.0003 ha

162 163

176

177

Block 365

Block 370

729

N37°25'20"E  
45.662

N45°59'25"W

N44°58'40"W

STREET "M"

STREET "M"

STREET "M"

STREET "M"

STREET "M"

STREET "M"

STREET "M"

STREET "M"

STREET "M"

STREET "M"

STREET "M"

STREET "M"

STREET "M"

STREET "M"

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STREET "M"

STREET "M"

STREET "M"

STREET "M"


STREET "M"

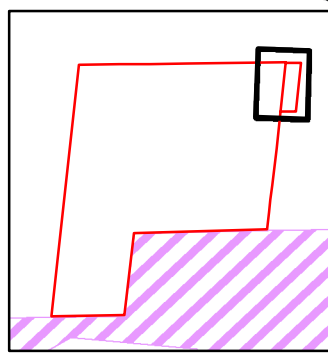
STREET "M"

STREET "M"

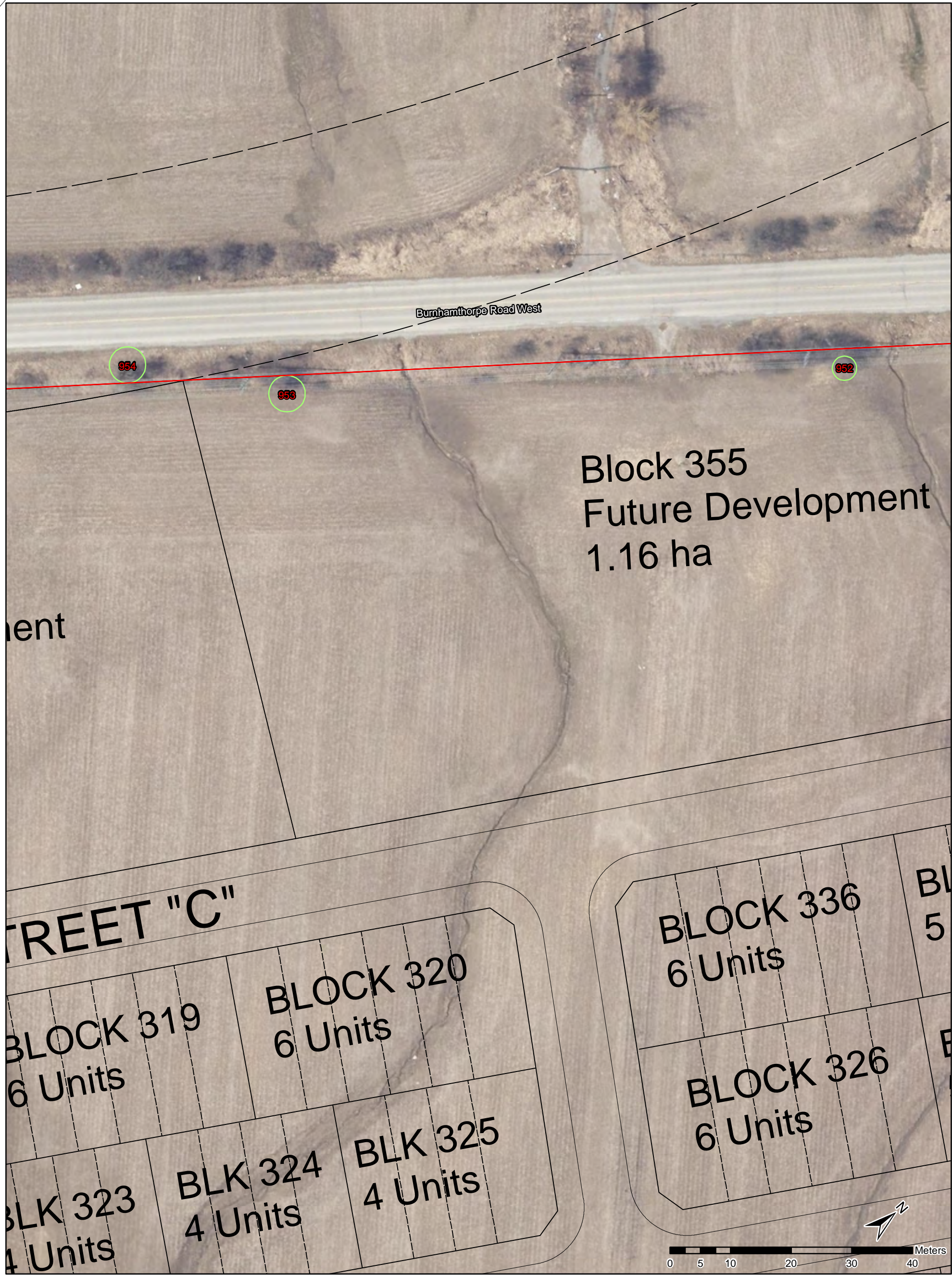
STREET "M"

**Eno Remington North Oakville**  
Tree Management Plan







-  Property Boundary
-  Tree Identified for Retention
-  Tree Identified for Removal
-  Dead Tree
-  Tree Removed to Facilitate Soil Remediation
-  Dripline
-  Tree Protection Zone
-  Tree Protection / Erosion and Sedimentation Control Fence
-  Area Disturbed by Soil Remediation
-  Off-site trees inventoried under separate application. Proposed tree removals coordinated with Eno Lands but subject to unique permit issuance.





Project	TA9008	Figure	3k
Date	October 2021	Prepared By	KC
Scale	1:600	Verified By	MJO

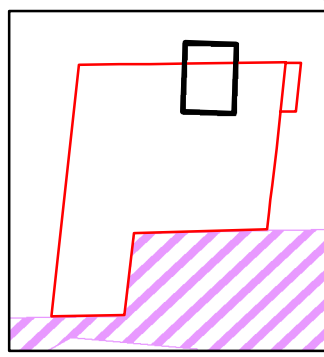


**Eno Remington North Oakville**  
Tree Management Plan

-  Property Boundary
-  Tree Identified for Retention
-  Tree Identified for Removal
-  Dead Tree
-  Dripline
-  Tree Protection Zone

-  Tree Protection / Erosion and Sedimentation Control Fence
-  Off-site trees inventoried under separate proponent/application-to be protected until applicable removal permits issued

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Project	TA9008	Figure	31
Date	October 2021	Prepared By	KC
Scale	1:600	Verified By	MJO

## **Appendix A Tree Inventory**





TAG#	Scientific Name	Common Name	DBH (cm)	Additional Stems	Estimation of DBH (x)	Condition																		Location		Management		Comments				
						TI	CS	CV	Radial Driftline (m)	Canopy Die Back (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	Epicormic	EAB	Canker	Suppressed	PFW	Hazard	Boundary Tree	Municipal Ownership		GPS corrected	Remove	Protect/Retain	Rationale
559	<i>Carya ovata var. ovata</i>	Shagbark hickory	14.0			g	g	g	2																x			x	Outside limits of draft plan			
560	<i>Quercus rubra</i>	Red oak	40.0			g	g	g	3															x		x		x	Boundary Tree			
561	<i>Quercus alba</i>	White oak	13.0			g	f	g	2																		x		NHS			
562	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	20.0			g	g	g	2																		x		Outside limits of draft plan			
563	<i>Carya ovata var. ovata</i>	Shagbark hickory	21.0			g	g	g	2																		x		Outside limits of draft plan			
564	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	17.0			g	f	g	2																		x		Outside limits of draft plan			
565	<i>Quercus alba</i>	White oak	47.0			g	g	g	3																		x		Outside limits of draft plan			
566	<i>Quercus rubra</i>	Red oak	48.0			g	f	g	3	15																	x		Outside limits of draft plan			
567	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	22.0			g	g	g	3																		x		Outside limits of draft plan			
568	<i>Quercus rubra</i>	Red oak	66.0	58.0		g	f	g	6		x														x		x		Boundary Tree			
569	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	11.0			f	f	f	2																		x		Outside limits of draft plan			
570	<i>Tilia americana</i>	Basewood	12.0	12.0		f	g	g	3																		x		NHS			
571	<i>Tilia americana</i>	Basewood	13.0			g	g	g	2																		x		NHS			
572	<i>Fraxinus sp.</i>	ash	12.0			g	g	f	2	30																	x		NHS			
573	<i>Quercus rubra</i>	Red oak	13.0			g	g	g	1																		x		NHS			
574	<i>Tilia americana</i>	Basewood	12.0			g	g	g	1																		x		NHS			
575	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	10.0			g	g	g	2																x				Boundary tree			
576	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	12.0			g	g	g	1																		x		Outside limits of draft plan			
577	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	42.0			g	f	g	4																		x		NHS			
578	<i>Quercus rubra</i>	Red oak	28.0			g	f	g	3																		x		NHS			
579	<i>Tilia americana</i>	Basewood	21.0	14.0		f	f	f	3	30	x														x		x		Boundary tree			
580	<i>Quercus rubra</i>	Red oak	42.0			g	g	g	4																x		x		Boundary tree			
581	<i>Carya ovata var. ovata</i>	Shagbark hickory	31.0			g	g	g	3																		x		Outside limits of draft plan			
582	<i>Carya ovata var. ovata</i>	Shagbark hickory	13.0			g	f	g	2																		x		Outside limits of draft plan			
583	<i>Quercus alba</i>	White oak	11.0			g	g	g	1																		x		Outside limits of draft plan			
584	<i>Quercus alba</i>	White oak	12.0			g	f	g	2	10																	x		Outside limits of draft plan			
585	<i>Fraxinus sp.</i>	Ash	13.0			g	f	f	2	10																	x		NHS		Broken top	
586	<i>Tilia americana</i>	Basewood	10.0			g	g	g	2																		x		NHS			
588	<i>Carya ovata var. ovata</i>	Shagbark hickory	34.0			g	g	g	4																		x		Outside limits of draft plan			
589	<i>Quercus rubra</i>	Red oak	11.0			g	g	g	2																		x		NHS			
590	<i>Quercus rubra</i>	Red oak	14.0			f	f	g	2																x		x		Boundary tree			
591	<i>Quercus rubra</i>	Red oak	14.0	12.7		f	f	g	3		x	x														x			Conflicts with proposed development			
592	<i>Pyrus sp.</i>	Fruit tree	24.0			g	f	f	2	20															x		x		Conflicts with proposed development			
593	<i>Quercus rubra</i>	Red oak	15.0			g	g	g	2																x		x		Conflicts with proposed development			
594	<i>Ulmus americana</i>	white elm	16.0			g	g	g	2																		x		Conflicts with proposed development			
595	<i>Tilia americana</i>	Basewood	14.0	14.14		f	g	g	3																		x		Conflicts with proposed development			
596	<i>Carya ovata var. ovata</i>	Shagbark hickory	12.0			g	g	g	2																		x		Conflicts with proposed development			
597	<i>Fraxinus sp.</i>	Ash	11.0			f	f	f	2	30	x																x		Conflicts with proposed development			
598	<i>Tilia americana</i>	Basewood	14.0	14.12,6		f	f	g	3																		x		Conflicts with proposed development			
599	<i>Carya ovata var. ovata</i>	Shagbark hickory	16.0			g	f	g	3																		x		Conflicts with proposed development			
600	<i>Quercus rubra</i>	Red oak	31.0			g	g	g	3																		x		Conflicts with proposed development			
601	<i>Quercus rubra</i>	Red oak	32.0			g	g	g	3																		x		Core 5 protected area		TPF may be refined based on EIR results	
602	<i>Tilia americana</i>	Basewood	12.0			g	g	g	2																		x		Core 5 protected area		TPF may be refined based on EIR results	
603	<i>Tilia americana</i>	Basewood	34.0			g	g	g	3																		x		Core 5 protected area		TPF may be refined based on EIR results	
604	<i>Tilia americana</i>	Basewood	18.0			g	g	g	2																		x		Core 5 protected area		TPF may be refined based on EIR results	
605	<i>Ulmus americana</i>	White Elm	18.0			g	g	g	3																		x		Core 5 protected area		TPF may be refined based on EIR results	
606	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	12.0			g	g	g	2																		x		Core 5 protected area		TPF may be refined based on EIR results	
607	<i>Ostrya virginiana</i>	Ironwood	16.0			g	g	g	3																		x		Core 5 protected area		TPF may be refined based on EIR results	
608	<i>Tilia americana</i>	Basewood	32.0			g	g	g	3																		x		Core 5 protected area		TPF may be refined based on EIR results	
609	<i>Quercus rubra</i>	Red oak	12.0			g	g	g	2																		x		Core 5 protected area		TPF may be refined based on EIR results	
610	<i>Tilia americana</i>	Basewood	30.0			g	g	g	3																		x		Core 5 protected area		TPF may be refined based on EIR results	
611	<i>Ulmus americana</i>	White Elm	10.0			g	g	g	2																		x		Core 5 protected area		TPF may be refined based on EIR results	
612	<i>Ostrya virginiana</i>	Ironwood	10.0			g	g	g	2																		x		Core 5 protected area		TPF may be refined based on EIR results	
613	<i>Carya ovata var. ovata</i>	Shagbark hickory	13.0			g	g	g	2																		x		Core 5 protected area		TPF may be refined based on EIR results	
614	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	15.0			g	g	g	2																		x		Core 5 protected area		TPF may be refined based on EIR results	
615	<i>Quercus rubra</i>	Red oak	34.0			g	g	g	3																		x		Core 5 protected area		TPF may be refined based on EIR results	
616	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	10.0	5.3		g	f	g	2		x																x		Core 5 protected area		TPF may be refined based on EIR results	
617	<i>Carya ovata var. ovata</i>	Shagbark hickory	22.0			g	g	g	3																		x		Core 5 protected area		TPF may be refined based on EIR results	
618	<i>Carya ovata var. ovata</i>	Shagbark hickory	32.0	30.0		g	g	g	3		x																x		Core 5 protected area		TPF may be refined based on EIR results	
619	<i>Tilia americana</i>	Basewood	28.0			g	g	g	3																			x		Core 5 protected area		TPF may be refined based on EIR results
620	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	12.0			g	g	g	2																			x		Core 5 protected area		TPF may be refined based on EIR results
621	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	10.0			g	g	g	2																			x		Core 5 protected area		TPF may be refined based on EIR results
622	<i>Ostrya virginiana</i>	Ironwood	10.0			g	g	g	2																			x		Core 5 protected area		TPF may be refined based on EIR results
623	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	30.0			g	g	g	3																			x		Core 5 protected area		TPF may be refined based on EIR results
624	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	34.0			g	g	g	3																			x		Core 5 protected area		TPF may be refined based on EIR results
625	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	11.0			g	g	g	2																			x		Core 5 protected area		TPF may be refined based on EIR results
626	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	15.0			g	g	g	3																			x		Core 5 protected area		TPF may be refined based on EIR results
627	<i>Acer saccharum ssp. saccharum</i>	Sugar maple	15.0			g	g	g	2																			x		Core 5 protected area		TPF may be refined based on















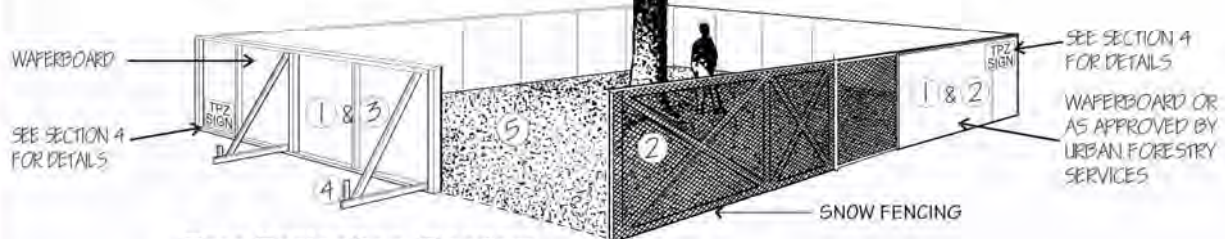
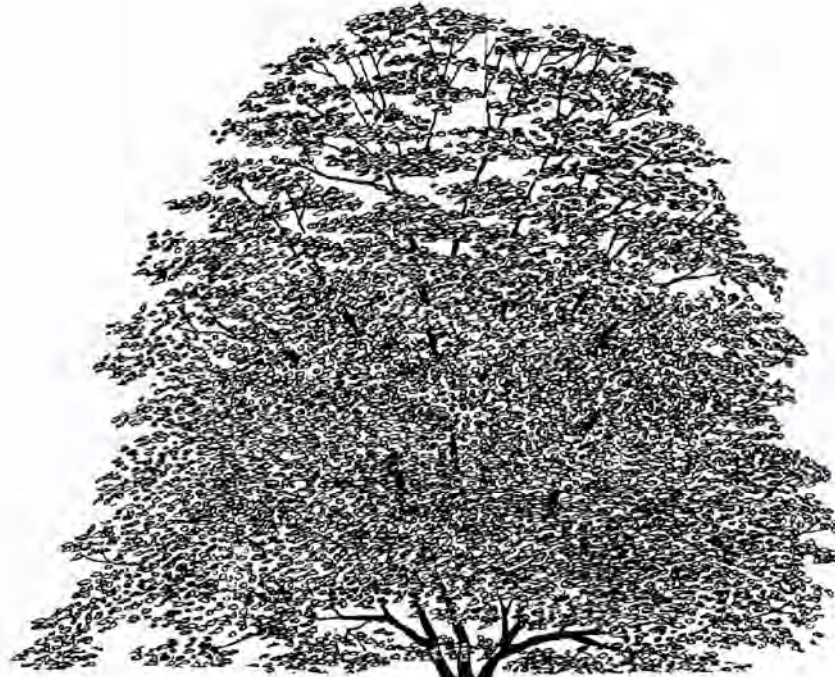


## **Appendix B Town of Oakville Tree Preservation Specifications**



OAKVILLE

## SCHEDULE 1 TREE PROTECTION BARRIER



### Tree Protection Barriers

PLYWOOD

- ① Tree protection barriers must be 1.2m (4ft) high, waferboard hoarding or an equivalent approved by Urban Forestry Services.
- ② Tree protection barriers for trees situated on the Town road allowance where visibility must be maintained can be 1.2m (4ft.) high and consist of plastic web snow fencing on a wood frame made of 2" x 4"s .
- ③ Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
- ④ All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.
- ⑤ No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.