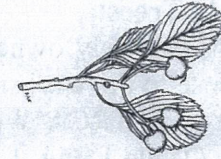


Arborist Report For

5329 Old Brock Road

Pickering, Ontario (October 21, 2020)



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1. Introduction

The following is an updated arborist report for the property at 5329 Old Brock Road, in Pickering Ontario. The purpose of this report was to inventory the trees on the site and ascertain the potential impacts of the proposed development on the trees on, and near, the subject site.

This report was prepared for *Grant Morris Associates Ltd.*

2. Methods

On-site inspections were made between May 9 and May 24, 2019. The sizes of individual trees were measured as diameter at breast height (DBH), breast height being 140 cm from ground level. From the data collected plant Condition Rating (CR), Location Rating (LR), Species Rating (SR), and minimum. Tree Protection Zones (TPZ), were estimated.^{1,2}

3. Discussion

There are plans to develop the site at 5329 Old Brock Road. Several non-exempt trees, according to the owner, were removed because of the snow storm a few years ago. Two trees on the east side of the proposed worksite area would be removed. All of the remaining trees in the Toronto and Region Conservation Area (TRCA) wetland to the southeast would be protected and retained (Table 1, Figs. 1 & 2, Photos 1-9).

Road Allowance Trees:

All of the road allowance trees could be retained without significant risk of injury. The trees would be more than their TPZ radii from the worksite (Table 1, Fig. 1, Photos 1-2).

Private Trees:

Six (6) privately owned trees over 15 cm DBH would be removed. The trees would be too close to the worksite to be retained without undue risk of injury. These trees in the 10 metre wide TRCA Wetland Buffer zone could be protected without significant risk of injury (Table 1, Fig. 1, Photos 3-9).

All of the invasive buckthorns should be removed (Table 1, Fig. 1).

There are several dead trees on the site. The dead trees outside the worksite area should be felled. The logs of the trees less than six metres should be removed. In the TRCA protected area, more than six metres from the worksite, felled trees should be left on the ground (Table 1, Fig. 1, Photos 3-9).

All of the remaining private trees, including those near the marsh (wetland), would be retained and protected with virtual no risk of injury (Table 1, Fig. 1).

Neighbours' Trees:

All of the neighbouring trees on neighbouring properties would be retained, without significant risk of injury (Table 1, Fig. 1).

3.2 Tree Protection:

It is necessary to protect all trees designated for preservation during both demolition and construction. This tree protection can be accomplished by protecting the said trees with *tree protection barriers*. The minimum tree protection zone (TPZ) radius is based on the diameter of the tree ($TPZ \approx 0.06_{m/cm} \times DBH_{cm}$). Tree barriers for road allowance areas would be composed of a 1.2 metre (4 ft) high orange plastic web snow fencing secured on 2"x4" wood frames. Usually, tree protection barriers, not on road allowance, are to be 1.2 metre (4 ft) high, and composed of plywood. Down-slope areas are to be protected by 1.2 metre (4 ft) erosion and sediment control barriers (silt fence).^{3,4}

Roadside Barriers:

The road allowance trees nearest the worksite entrance way would be protected by web-fence barriers. The tree protection barriers would extend at least 1.8 metres from the trees closest to the entrance way (Fig. 1, Table 1).

Worksite Barriers:

A tree protection barrier would protect the trees on the north side of the worksite area. An existing wooden fence would protect the trees in the gully to the south (Fig. 1).

Trees to the south and east, near the gully and wetland are to be protected by an erosion and sediment control fence (silt fence). This sediment barrier would be close to the top-of-slope of the gully to the south, and just west of the 10 metre TRCA wetland buffer to the southeast. Most of the east side of the property would be protected by the erosion sediment control barrier (Table 1, Fig. 1).

3.3 Replacement Trees:

Grant Morris Associates Ltd. is developing a landscape plan for the 5329 Old Brock Road property. All new trees would be of large calliper nursery grown stock. The trees would be transplanted as according to municipal codes and bylaws.^{4,5}

- (1) Minimum 50 mm calliper (2-inch wide stem) for deciduous trees
- (2) Minimum 1.75-2.5 m height for coniferous trees

Trees would best be transplanted during the spring or autumn. Mid-summer transplanting should be avoided. These trees are to be maintained in good condition. Supplemental watering may be required during the drier periods of the year, especially during the first two or three years after their transplantation.^{4,5}

4. Conclusions

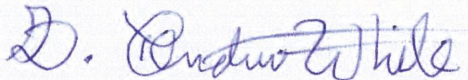
In order to allow for the proposed development at 5329 Old Brock Road, six (6) privately owned trees over 15 cm DBH would be removed. All of the remaining trees on the site are to be retained.

All of the trees down-slope of the 10 metre TRCA Wetland Buffer would be retained.

The road allowance trees nearest the worksite entrance way would be protected by web-fence barriers. The tree protection barriers would extend out at least 1.8 metres from the trees near the entranceway. A tree protection barrier would protect the trees on the north side of the worksite. An existing wooden fence on the south side of the site would protect trees near the gully. The trees down-slope of the 10 metre TRCA Wetland Buffer would be protected with erosion and sediment control barrier.

Grant Morris Associates Ltd. is developing a landscape plan for the 5329 Old Brock Road property. All new trees would be of large calliper nursery grown stock. The trees would be transplanted as according to municipal codes and bylaws.

D. Andrew White M. Sc.



October 21, 2020

5. Tree Data:

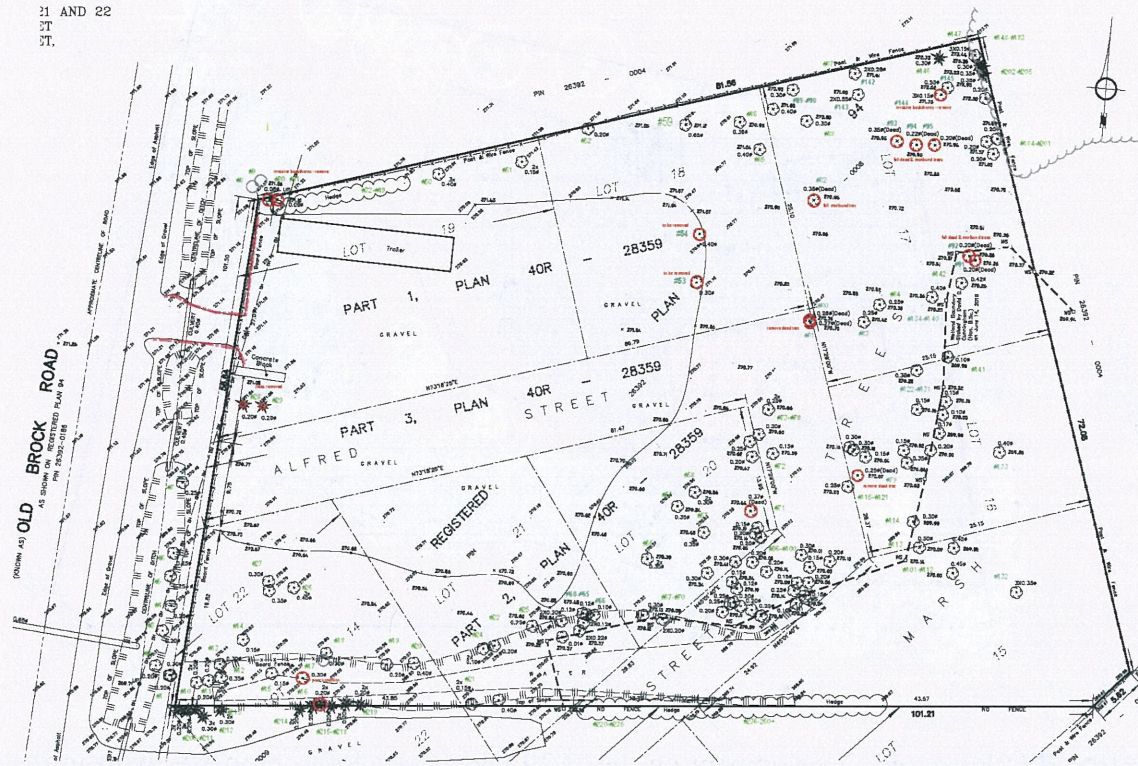


Figure #1: Arborist's Plan and layout (survey) of the 5329 Old Brock Road property, with trees are numbered (green), with trees to be removed or felled (red) indicated.

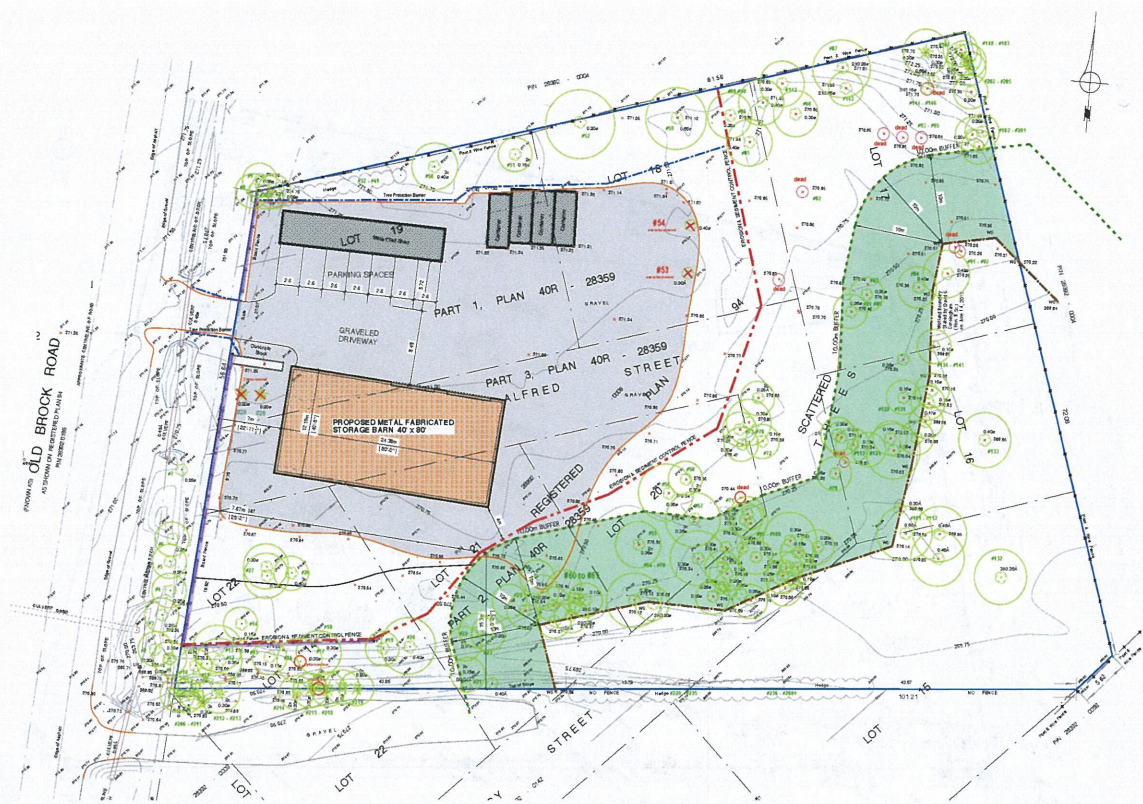


Figure #2: Proposed Development on the 5329 Old Brock Road property, with in the 10 m Wetland Buffer (green), tree protection barriers (blue), and erosion and sediment control fence (red) are indicated.



Photograph #1: Front yard trees on the southwest roadside of the 5329 Old Brock Road property.



Photograph #2: Trees on the northwest roadside of the 5329 Old Brock Road property.



Photograph #3: Trees on the southeast side of the 5329 Old Brock Road property.



Photograph #4: Trees on the northeast margin of the 5329 Old Brock Road property.



Photograph #5 Trees on the southwest side of the 5329 Old Brock Road property.



Photograph #6: Trees on the north and northeast side of 5329 Old Brock Road property.



Photograph #7: Trees on the northwest side 5329 Old Brock Road property.



Photograph #8: Trees on the east side 5329 Old Brock Road property.



Photograph #9: Trees on the southwest side 5329 Old Brock Road property..

Table #1. Tree number (No.), species, diameter at breast height (DBH), comments, Condition Rating (CR) and Tree Category.

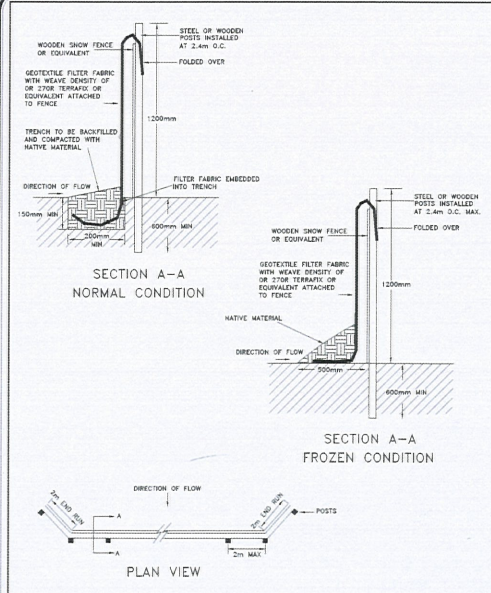
No.	Tree Species	DBH	Comments	CR	TC
#1	Norway Maple	26 cm	Roadside tree	60%	Town
#1b	stump	c 20 cm	Dead tree, to remove	0%	Town
#2	Manitoba Maple	17 cm	Roadside tree	60%	Town
#3	Black Locust	20 cm	Roadside tree	55%	Town
#4	Black Locust	22 cm	Roadside tree	55%	Town
#5	Black Locust	25 cm	Roadside tree	55%	Town
#6	Black Locust	22 cm	Roadside tree	60%	Town
#7	Black Locust	23 cm	Roadside tree	55%	Town
#8-9	Norway Maple	8-10 cm	Coppice	50%	Town
#9-10	Manitoba Maples	22-26	SW corner	60-65%	Private
#11	Manitoba Maple	27 cm	SW corner	65%	Private
#12	Manitoba Maple	34 cm	SW corner	65%	Private
#13	Manitoba Maple	36 cm	SW corner	60%	Private
#14	Black Locust	15 cm	SW Remove	65%	Private
#15	Manitoba Maple	20-22 cm	SW corner	65%	Private
#16	Manitoba Maple	30-56 cm	SW very poor	50%	Private
#17	Norway Maple	15 cm	SW corner	65%	Private
#18	Norway Maple	22 cm	SW Remove	65%	Private
#19	Norway Maple	24 cm	SW corner	65%	Private
#20	Norway Maple	42 cm	SW corner	60%	Private
#21	Manitoba Maple	16 cm	SW corner	65%	Private
#22	Manitoba Maple	20-22 cm	SW corner	60%	Private
#23	Manitoba Maple	52 cm	SW corner	55%	Private
#24	Manitoba Maple	15-17 cm	S side	60 %	Private
#25	Manitoba Maple	24 cm	S side	65%	Private
#26	Black Locust	25 cm	SW Remove	60%	Private
#27	Black Locust	37 cm	SW Remove	60%	Private
#28-29	stumps	NA	W side, removed	0%	Private
#30-31	Buckthorns	11-12 cm	NW invasive	55-60%	Private
#32-35	White Cedars	12-14 cm	NW protect	50-60%	Private
#36-49	White Cedars	14-16 cm	NW side	50-60%	Private
#50	Silver Maple	48-52 cm	NW side	55%	Private
#51	Manitoba Maple	18 cm	N side	60%	Private

No.	Tree Species	DBH	Comments	CR	TC
#52	Manitoba Maple	85 cm	N side	40%	Private
#53	Basswood	58-64 cm	N Remove	50%	Private
#54	Manitoba Maple	23 cm	N Remove	55%	Private
#54	Manitoba Maple	35 cm	N worksite	60%	Private
#55	Black Locust	36-38	W protect	60%	Private
#56	Black Locust	32-62 cm	W protect	55%	Private
#57	Black Locust	31 cm	W protect	60%	Private
#58	Black Locust	29 cm	W protect	55%	Private
#59	Manitoba Maple	59 cm	N protect	60%	Private
#60	Manitoba Maple	12	SE treed area	60%	Private
#61-62	Manitoba Maples	15-35 cm	SE protect	60-65%	Private
#63	Sugar Maple	19 cm	SE protect	65%	Private
#64-66	Manitoba Maples	18-30 cm	SE protect	65-70%	Private
#67-69	Manitoba Maples	18-27 cm	SE very poor	45-50%	Private
#70	Black Locust	27 cm	SE treed area	60%	Private
#71	Manitoba Maple	37 cm	SE dead tree	0%	Private
#72-76	Manitoba Maples	14-39 cm	E treed area	55-65%	Private
#77-78	Black Locust	24-31 cm	E treed area	60-65%	Private
#79-82	Manitoba Maples	19-28 cm	E very poor, to dead	0-20%	Private
#83-84	Balsam Poplar	12-28	E treed area	60-65%	Private
#85	Silver Maple	36 cm	NE treed area	65 %	Private
#86	Balsam Poplar	33 cm	NE treed area	65 %	Private
#87	Sugar Maple	62 cm	NE treed area	55%	Private
#88-89	Balsam Poplar	28-36 cm	NE treed area	60-65%	Private
#90-95	Manitoba Maples	16-35	NE treed area, fell dead trees	0-20%	Private
#96-100	Manitoba Maples	16-24 cm	SE wetland	60-65%	Private
#101-111	Balsam Poplars	10-12 cm	E near wetland	65-70%	Private
#112-114	Balsam Poplars	42-48 cm	E near wetland	60-65%	Private
#115-121	Balsam Poplars	10-12 cm	E near wetland	65-70%	Private
#122	Balsam Poplar	29 cm	E near wetland	65%	Private
#123-131	Manitoba Maples	10-19 cm	E near wetland	65-70%	Private
#.132	White Willow	12-16 cm	E near wetland	70%	Private
#133	Silver Maple	26 cm	NE wetland	65%	Private
#134-138	Manitoba Maples	10-16 cm	NE near field, to remove	20-50%	Private

No.	Tree Species	DBH	Comments	CR	TC
#139-140	Balsam Poplars	9-14 cm	NE near field	60-65%	Private
#141-143	Manitoba Maples	20-22 cm	NE near field	60-65%	Private
#144	Buckthorn	14-18 cm	NE invasive	55%	Private
#145-147	White Cedars	24-36 cm	NE margin	65-70%	Private
#148-183	White Cedars	16-24 cm	NE off-site	60-70%	Neighbour
#184-201	Balsam Poplars	20-28 cm	E offsite	65-70%	Neighbour
#202-205	Paper Birch	20-28 cm	E off-site	65-70%	Neighbour
#206	White Cedar	27 cm	SW off-site	60%	Neighbour
#207	White Cedar	12-14 cm	SW off-site	55%	Neighbour
#208	White Cedar	11-20 cm	SW off-site	60%	Neighbour
#209	White Cedar	24 cm	SW off-site	60%	Neighbour
#210	White Cedar	19 cm	SW off-site	60%	Neighbour
#211	White Cedar	18-19 cm	SW off-site	60%	Neighbour
#212	White Cedar	18 cm	SW off-site	55%	Neighbour
#213	White Cedar	26 cm	SW off-site	65%	Neighbour
#214	White Cedar	20-27 cm	S off-site	60%	Neighbour
#215	White Cedar	18 cm	S off-site	55%	Neighbour
#216	White Cedar	24 cm	S leaning tree	50%	Neighbour
#217	White Cedar	22 cm	S off-site	60%	Neighbour
#218	White Cedar	16-18 cm	S off-site	60%	Neighbour
#219	White Cedar	15-22 cm	S off-site	60%	Neighbour
#220-235	White Cedars	25-36 cm	SE off-site	60-70%	Neighbour
#236-260+	White Cedars	22-42 cm	SE off-site	60-70%	Neighbour

6. References

- 1- Council of Tree Landscape Appraisers. 2000. Guide for Plant Appraisal. 9th Edition. International Society of Arboriculture.
- 2- International Society of Arboriculture of Ontario. 1998. Ontario Supplement to Guide for Plant Appraisal 8th Edition. Ontario Chapter, International Society of Arboriculture.
- 3- City of Pickering. 2020. Pickering Website. <http://www.cityofpickering.com> . Pickering Civic Complex. One The Esplanade. Pickering, ON L1V 6K7.
- 4- City of Pickering. 2003. TREE PROTECTION BY-LAW - BY-LAW NUMBER 6108/03. Corporation of the City of Pickering.
- 5- MMAH. 2005. Greenbelt Plan No. 208/2005. Feb 28, 2005. Ministry of Municipal Affairs & Housing.



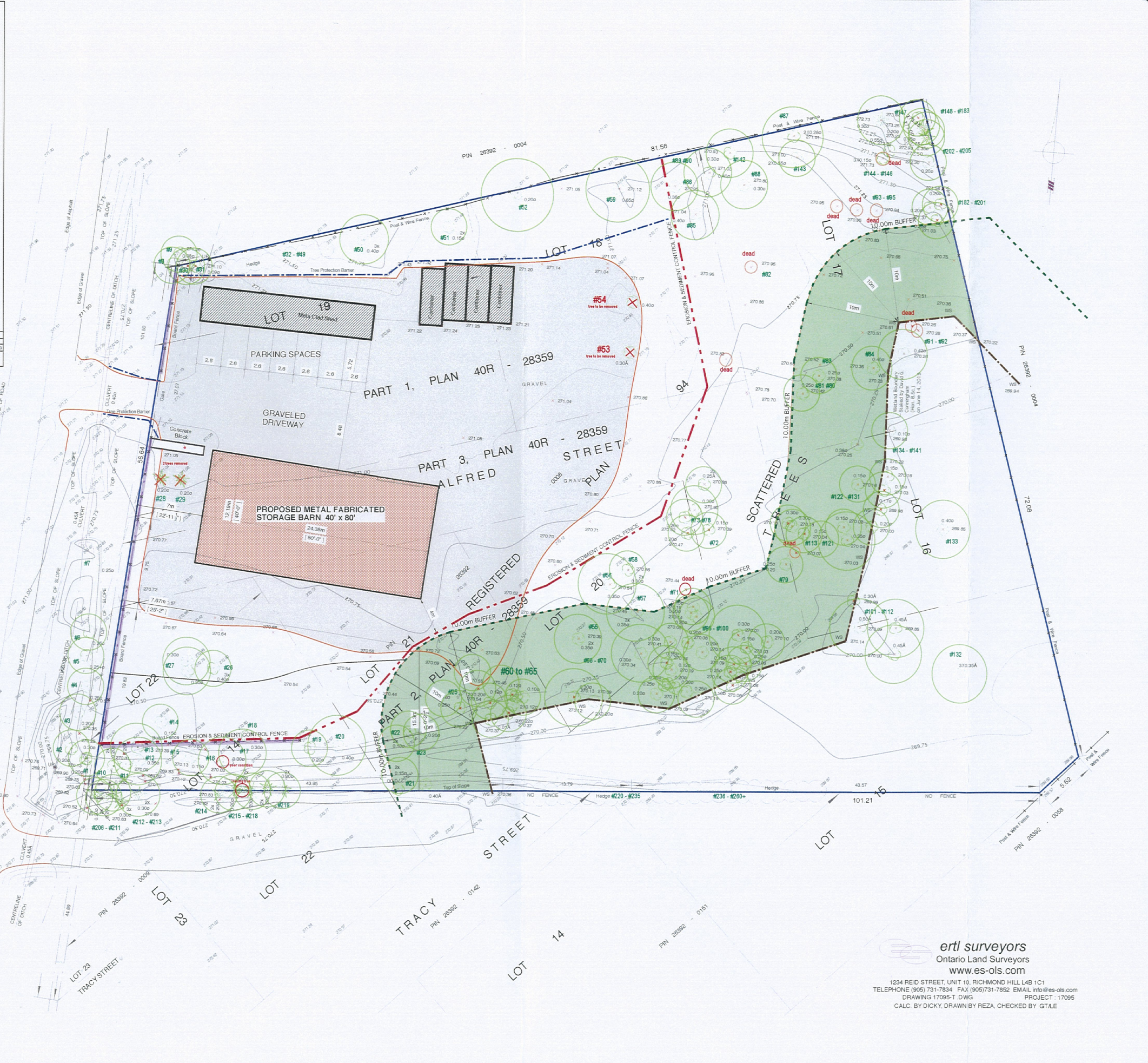
City of Pickering Engineering Services Department	
DATE: NOVEMBER 2019	PROJECT: SILT FENCE
DATE: FEBRUARY 2003	PROJECT: P-823.1

TOPOGRAPHIC SKETCH SHOWING LOTS 16, 17, 18, AND 20 AND PART OF LOTS 15, 19, 21 AND 22 AND PART OF ALFRED STREET AND PART OF TRACEY STREET, REGISTERED PLAN 94
 GEOGRAPHIC TOWNSHIP OF PICKERING, NOW IN THE CITY OF PICKERING REGIONAL MUNICIPALITY OF DURHAM
 SCALE 1:250
 © COPYRIGHT ertl surveyors 2017 Ontario Land Surveyors
 Metric
 DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

SURVEY PREPARED FOR: LEISURE POOLS OF TORONTO ART SIMPATICO

Benchmark
 CITY OF PICKERING BENCHMARK No.9-004 ELEVATION = 272.553 m

- Notes**
- DENOTES SURVEY MONUMENT FOUND
 - DENOTES SURVEY MONUMENT SET
 - IB DENOTES STANDARD IRON BAR
 - NS/SEW DENOTES NORTH/SOUTHEAST/WEST
 - UP DENOTES UTILITY POLE
 - DS DENOTES DOOR SILL
 - DENOTES DECIDUOUS TREE
 - DENOTES CONIFEROUS TREE
 - DENOTES INDICATES DIAMETERS
 - WET LAND BOUNDARY
 - 10M BUFFER
 - AREA FILLED WITH GRAVEL



Revisions:

No.	Date	Issuance and/or Revisions	By
4	04 2020	REV DRAWINGS WITH EROSION CONTROL FENCE & DETAIL	AD
3	03 2020	REVISED per NEW SURVEY	AD
2	05 2019	REVISED LAYOUT	AD
1	08 17	ISSUED FOR CLIENT REVIEW	AD

Note:
 All drawings are the property of this firm and shall not be used without their expressed written consent.

Contractors shall check and verify all dimensions and elevations and report any discrepancies before commencement of work.

All work to conform with all governing codes and by-laws. All prints of plans and specifications are the property of the designer and shall be returned upon completion of work.

Do not scale drawings dimensions to take precedent over scale.



The undersigned has reviewed & taken responsibility for this design, and has the qualifications and meets the requirements set out in the Ontario Building Code to be a designer.

QUALIFICATION INFORMATION	
Required unless design is exempt under 2.17.5.1 of the building code	
TONY VALENTIN	20917
Name	BCIN
Signature	Date
04 08 15	
REGISTRATION INFORMATION	
Required unless design is exempt under 2.17.4.1 of the building code	
TONY VALENTIN DESIGN	28858
Firm Name	BCIN

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 EMAIL: grant.morris@rogers.com

Project title:
PROPOSED DEVELOPMENT
 5329 OLD BROCK ROAD
 CITY OF PICKERING
 CLIENT:

Drawing title:
SITE PLAN & STATISTICS

Drawn By: Arnel	project no
Designed By:	sheet no
Checked By:	A1
Date: AUG 2017	of sheets
Scale: 1:200 M	

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 CALC. BY DICKY, DRAWN BY REZA, CHECKED BY GTLE