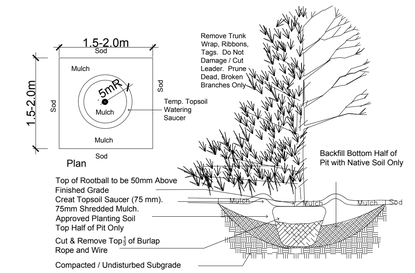
Plant List - Trees - 555 Dealership Drive Dan Murphy Ford				
Code	Qty.	Botanical Name	Common Name	Size	Condition
AR	3	Acer rubrum	Red Maple	60mm cal	B + B specimen
AS	3	Acer saccharum	Sugar Maple	60mm cal	B + B specimen
CO	1	Celtis occidentalis	Common Hackberry	60mm cal	B + B specimen
QM	1	Quercus macrocarpa	Burr Oak	60mm cal	B + B specimen
QR	1	Quercus rubra	Red Oak	60mm cal	B + B specimen
AB	4	Abies balsamea	Balsam Fir	1.5m Ht.	B + B specimen
PG	13	Picea glauca	White Spruce	1.5m Ht.	B + B specimen
PS	3	Pinus strobus	White Pine	1.5m Ht.	B + B specimen
Plant List - Shrubs - 555 Dealership Drive Dan Murphy Ford				
Code	Qty.	Botanical Name	Common Name	Size	Condition
SB	445	Spiraea bumalda 'Froebelii'	Froebels Spirea	60cm Ht.	POT

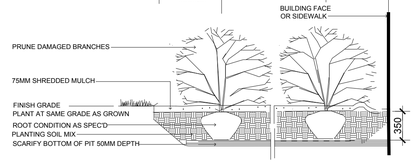
TREES ALONG DEALERSHIP DRIVE BY/AS PER CITIGATE/NOVATECH
5 QUERCUS RUBRA
5 CELTIS OCCIDENTALIS
TREES ALONG CITIGATE DRIVE BY/AS PER CITIGATE/NOVATECH,
- DESIGN NOT COMPLETE TO BE DETERMINED

TURF AREAS TO BE SOD C/W 150MM DEPTH TOPSOIL ON APPROVED SUBGRADE.
SOD TO BE NUMBER ONE GRADE TURFGRASS NURSERY SOD per NSGA - Fine Fescue/Kentucky Bluegrass Sod.
PLANTING MIX TO BE APPROVED BY LANDSCAPE ARCHITECT.
ALL PLANT MATERIAL TO MEET CNLA STANDARDS, AND BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.
REFER TO CIVIL ENGINEER's DRAWING FOR ELEVATIONS / GRADING.
ALL WORK TO INCLUDE 1 YEAR WARRANTY FROM DATE OF FINAL ACCEPTANCE.
MAINTAIN ALL AREAS UNTIL FINAL ACCEPTANCE, INCLUDING MOWING OF TURF, WEEDING OF BEDS, WATERING, SWEEPING HARD SURFACES.
PROVIDE WATERING OF ALL PLANT MATERIAL AS REQUIRED FOR PROPER ESTABLISHMENT, UNTIL END OF WARRANTY PERIOD.
The Landscape Plan is to be read in conjunction with the grading and survey plan, underground services engineering drawings, construction details and contract documents and cannot be used for construction until signed by the landscape architect. Bare root material to be planted in season only. All plant material locations to be staked on site by the landscape contractor and checked by the landscape architect prior to planting. All trees to be preserved on or directly adjacent to the site will be protected. Plant material are to be installed a minimum of; 3.0m away from any part of any hydro transformer, 3.0m corridor between a fire hydrant and the curb, a 2.5m radius beside or behind a fire hydrant, 2.0m from any servicing/utility line or structure.

Drawing Remains the Property of Gino J. Aiello Landscape Architect. Copyright Reserved by Gino J. Aiello Landscape Architect. Do Not Use or Reproduce Without Approval of Gino J. Aiello. Do Not Use For Construction Unless Signed By Landscape Architect. Contractor is Responsible for Verification of Site Locations of all Utilities. Report any Discrepancies Between Site and Drawing Immediately to Gino J. Aiello.



TREE PLANTING NTS
Section



SHRUB PLANTING NTS

TYPICAL PLANTING BED NTS

During Excavation/Bed Preparation if Extreme Conditions are Encountered (Water, Rock, Gravel...) that Could Effect the Planting, Notify GJALA Immediately.

IFS ASSOCIATES
P.O. Box 13593, Ottawa, ON K2K 1X6
Telephone: (613) 839-0101
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Urban Forestry & Forest Management Consulting

EXCERPT OF FULL REPORT TCR BY IFS

Introduction

The importance of protecting vegetative cover on sites subject to development is specified in Section 4.7.2 of the City of Ottawa's Official Plan. In accordance with this the City of Ottawa's Urban Tree Conservation By-law (By-law no. 2009-200) requires a detailed Tree Conservation Report (TCR) prior to the removal of trees on sites within the urban boundary of Ottawa. In this instance, since the removal of vegetation over the majority of the site has been completed, this TCR relates to the only vegetation still remaining on site – a hedgerow along the northern property line.

The subject property is located at 555 Dealership Drive in Barrhaven. The entire property covers an area of slightly more than 2.7 hectares.

The development proposed for the property consists of a 34,995 square foot car dealership building with 463 surrounding parking spaces.

Methodology

A survey of the site was completed on June 25, 2018. Tree growth was assessed via a reconnaissance survey in which the overstory trees and understory vegetation was assessed for species, size and general health conditions. This information was then compiled so that tree composition could be broadly delineated. These areas can be found on the accompanying tree conservation plan prepared by Gino Aiello, Landscape Architect.

Tree Inventory

The most frequent overstory species within the hedgerow are white elm (*Ulmus americana*), many of which are dead or declining due to Dutch elm disease (*Ophiostoma novo-ulmi*), white cedar (*Thuja occidentalis*), Manitoba maple (*Acer negundo*) and sugar maple (*Acer saccharum*). Scattered ash (*Fraxinus* spp.), many of which are dead or declining due emerald ash borer (*Agrilus planipennis*), apple (*Malus* spp.), hawthorn (*Crataegus* spp.), basswood (*Tilia americana*) are also present. With the exception of Manitoba maple, each of these tree species are native to Eastern Ontario.

Understory vegetation consists of ash and maple regeneration and a number of shrub species: staghorn sumac (*Rhus typhina*), serviceberry (*Amelanchier* spp.), nannyberry (*Viburnum lentago*) and buckthorn (*Rhamnus* spp.). With the exception of buckthorn (a highly invasive species), each these species are native to Eastern Ontario.

Two native vines, wild grape (*Vitis* spp.) and Virginia creeper (*Parthenocissus quinquefolia*), are present in abundance and have grown into the crowns of individual overstory trees and to cover large areas of lower vegetation.

Typical vegetative conditions within the hedgerow are shown in Pictures 1, 2 and 3 on pages 2 and 3 of this report.

Use of Existing Vegetation

The majority of the required development zone has already been cleared of vegetation. A highly compacted base of stone and soil over most of this zone has eliminated the regeneration of any vegetation within this area. The berm on the eastern edge of the property has early sumac and trembling aspen (*Populus tremuloides*) regeneration. This vegetation will be lost once the berm is removed. Aside from this it is anticipated that no further tree loss will occur.

Endangered Species

In their Integrated Environmental Review of the larger corporate campus property in 2014, Muncaster Environmental Planning Inc. found numerous butternut (*Juglans cinerea*). However, no butternut trees were found on the adjacent private properties to the north and west of the subject property. This includes a zone of 50 meters from the shared property line. This species is listed as endangered under the Province of Ontario's Endangered Species Act (ESA, 2007) and so is protected from harm.

Protection Measures

The following measures are recommended by the City of Ottawa to ensure survival of the trees along the forest edges:

1. Erect a fence at the critical root zone (CRZ[1]) of trees;
2. Do not place any material or equipment within the CRZ of the tree;
3. Do not attach any signs, notices or posters to any tree;
4. Do not raise or lower the existing grade within the CRZ without approval;
5. Tunnel or bore when digging within the CRZ of a tree;
6. Do not damage the root system, trunk or branches of any tree;
7. Ensure that exhaust fumes from all equipment are NOT directed towards any tree's canopy.

[1] The critical root zone (CRZ) is established as being 10 centimetres from the trunk of a tree for every centimetre of trunk Diameter at breast height (DBH). The CRZ is calculated as DBH x 10 cm.

Please do not hesitate to contact me if you have any questions concerning this tree conservation report

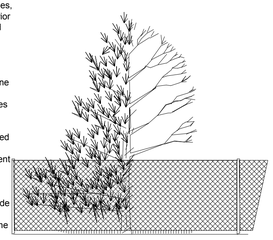
Yours,

Andrew Boyd

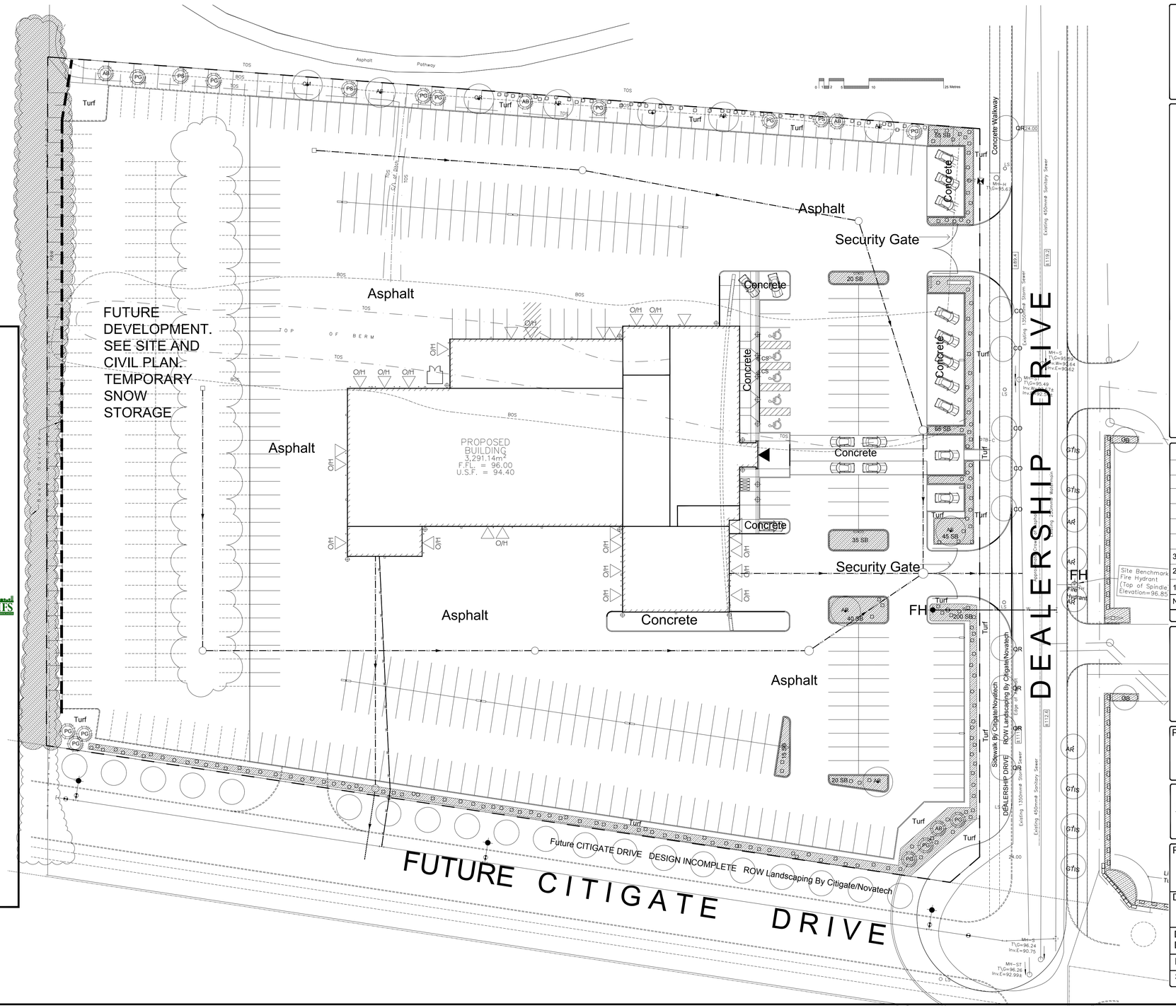
Andrew K. Boyd, B.Sc.F, R.P.F. (#1828)
ISA Certified Arborist #ON-0690A and TRAQualified
Butternut Health Assessor #513

The following protection measures must be implemented for retained trees, both on site and on adjacent sites, prior to any tree removal or site works and maintained for the duration of construction on site:

Under the guidance of an arborist,
- erect a fence at the critical root zone (CRZ) of trees where the CRZ is established as being 10 centimetres from the trunk of a tree for every centimetre of trunk diameter at breast height. The CRZ is calculated as DBH X 10 cm.;
- Do not place any material or equipment within the CRZ of the tree;
- Do not attach any signs, notices or posters to any tree;
- Do not raise or lower the existing grade within the CRZ without approval;
- Tunnel or bore when digging within the CRZ of a tree;
- Do not damage the root system, trunk or branches of any tree;
- Ensure that exhaust fumes from all equipment are NOT directed towards any tree canopy.



TYPICAL TEMPORARY EXISTING TREE PROTECTION NTS



Existing Vegetation To Remain
Protection for Existing Trees
Proposed Coniferous Tree
Proposed Deciduous Tree
Proposed Planting Bed
Proposed Granite Boulder - .5 Cubic Metre Each Approx.

No.	Revision	Date
3	2ND SUBMISSION SITE PLAN CONTROL	September 20 2018
2	FIRST SUBMISSION SITE PLAN CONTROL	June 22 2018
1	FOR REVIEW	June 2018

R E V I S I O N S

North

Property Owner
Dan Murphy Ford

Gino J. Aiello **landscape architect** www.GJALA.com
Gino@GJALA.com (613) 852 1343
110 Didsbury Road Unit # 9, Ottawa, Ontario K2T 0C2

Project
Proposed Automobile Dealership
555 Dealership Drive, Barrhaven

Drawing
Landscape Plan

Drawn By: / Design By:	GJA	Sheet Number
Date:	JUNE 2018	L1
Scale:	1:400	

Dwg #17720

D07-12-18-0102