



**TOTAL PARKING AREA = 8250m<sup>2</sup>**  
**TOTAL CANOPY AREA = 3275m<sup>2</sup>**  
**Percentage cover = 39.7%**  
**SOFT AREA = 2350m<sup>2</sup>**  
**Percentage soft = 28.5**

**TOTAL PROPOSED TREES: 30**  
**TOTAL PROPOSED SHRUBS: 9+**

REFER TO ECOH 1176 ENVIRONMENTAL IMPACT ASSESSMENT, PREPARED BY KILGOUR & ASSOCIATES LTD., 2022 12 22, FOR TREE SPECIES AND CONDITION CHARTS.

NOTE: EXISTING TREE NUMBERS FROM THE ABOVE REPORT.

TREES TO BE REMOVED:  
 T11, T12, T13, T14, T35, T45, T46, T47, T48, T49, T50, T51, T52, T53, T54, T55  
 FOR A TOTAL OF 16 TREES.

**LEGEND**

- PARKING LOT EXTENTS
- TREE CANOPY WITHIN PARKING LOT EXTENTS
- EXISTING FENCE
- TREE PROTECTION FENCE
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE PRESERVED
- PROPOSED TREE
- PROPOSED SHRUB

KEY PLAN

No	1	NCC SUBMISSION	2023/03/14
Revisions			Date

Orientation

Seal

The Contractor shall check and verify all dimensions and report all errors and omissions to the IO-Owner's/MBS Designee (as applicable) for his/her written direction before proceeding with the Work.

A Detail No  
 B Sheet No where detailed

PROJECT ENGINEER: CIVIL, STRUCTURAL, MECHANICAL & ELECTRICAL

**Jp2g Consultants Inc.**  
 ENGINEERS • PLANNERS • PROJECT MANAGERS  
 1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON K2H 8S9  
 PHONE: 613-828-7800 FAX: 613-828-2600  
 Jp2g Project #: 20-5060A

LANDSCAPE ARCHITECT

**Ruhland & Associates Ltd**  
 landscape architecture • urban design • site planning  
 Ph 613-224-4744 Fx 613-224-1131 info@rala.ca www.rala.ca

AMIS N B

Project  
 OTTAWA CARLETON DETENTION CENTRE  
 TEMPORARY PARKING LOT EXPANSION

Location  
 INNES ROAD, GLOUCESTER TOWNSHIP  
 OTTAWA

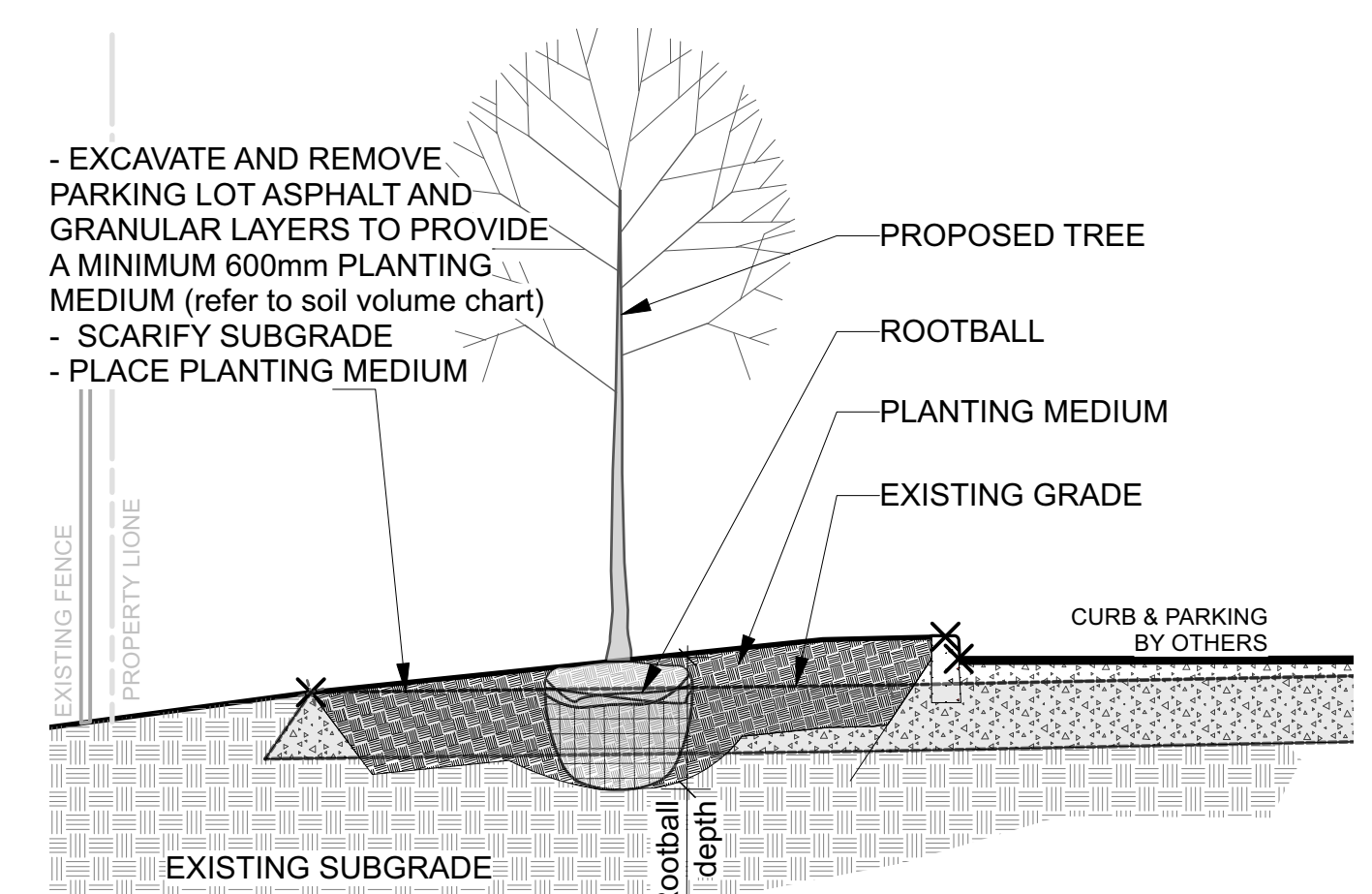
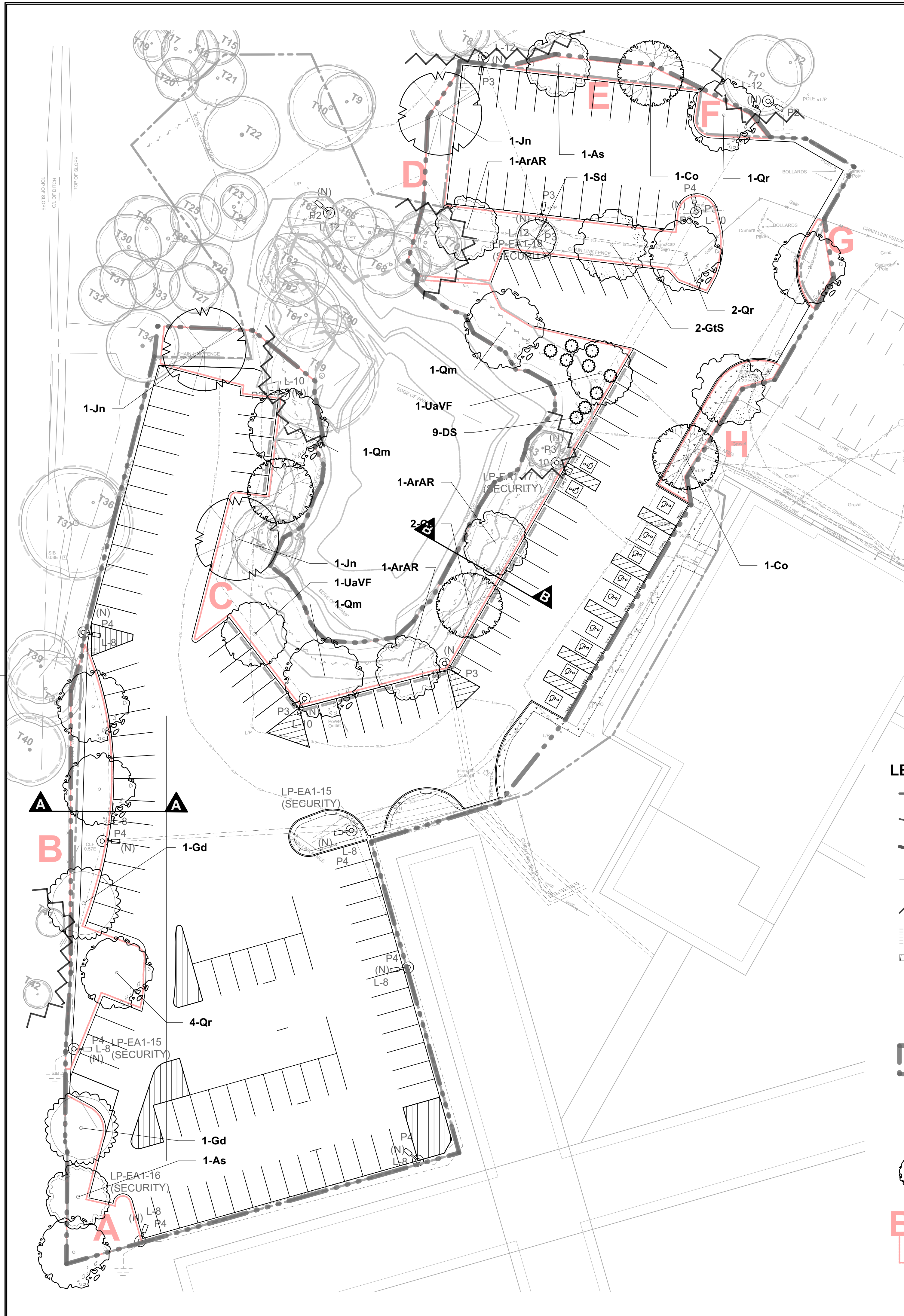
IO Project No Site No Building No

Drawing Title  
**TREE CANOPY PLAN**

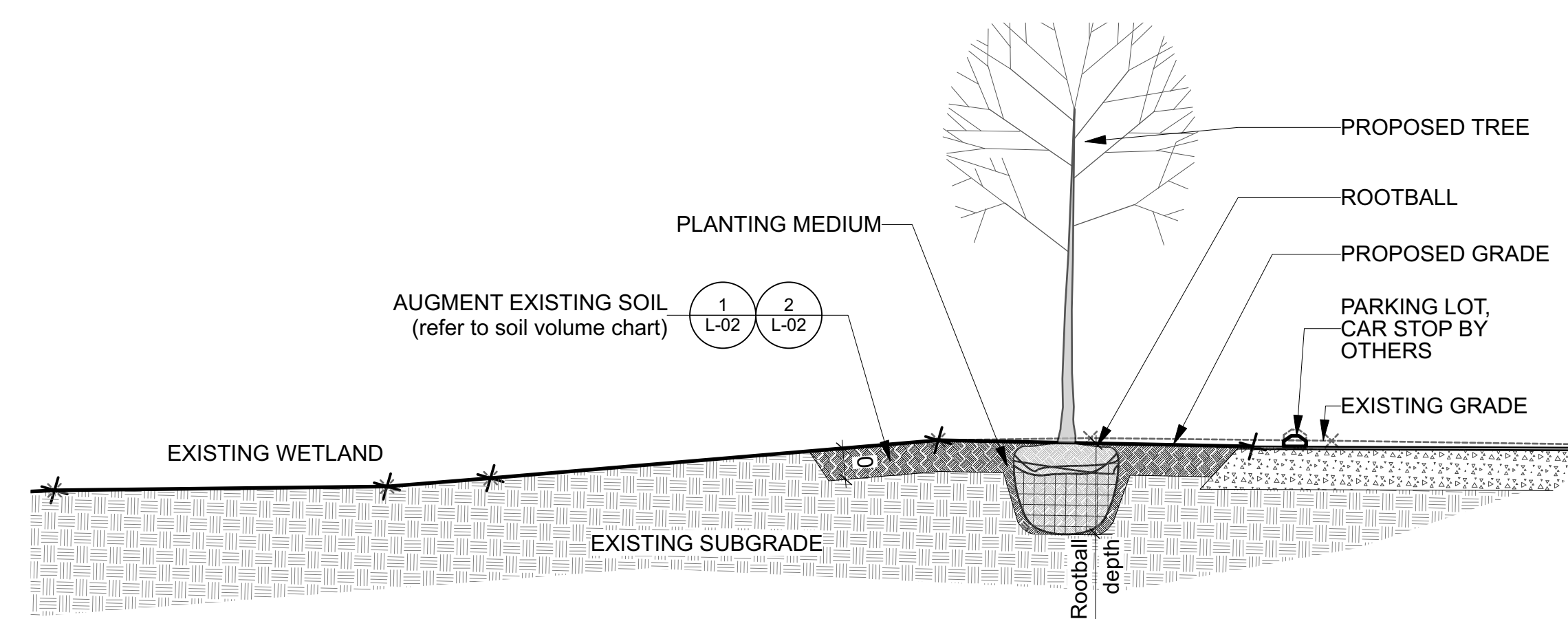
Scale	Date
Drawn by TF	JANUARY 2023
Designed by MR	Substantial Performance Date
Approved by	Drawing No <b>TC-01</b>

CADD File NAME





AA SECTION A-A - TREE PLANTING AT ASPHALT REMOVAL  
Scale: NTS



BB SECTION B-B - TREE PLANTING IN EXISTING SOFT. LANDSCAPE  
Scale: NTS

- LEGEND**
- EXTENT OF WORK
  - WETLAND
  - WETLAND 5m offset
  - EXISTING FENCE
  - TREE PROTECTION FENCE
  - EXISTING UTILITIES
  - BUILDING
  - PROPOSED PARKING AND PAINTED AREAS
  - PROPOSED / EXISTING LIGHT (BY OTHERS)
  - PARKING LOT EXTENTS
  - EXISTING TREE
  - EXISTING TREE CRITICAL ROOT ZONE
  - PROPOSED TREES
  - PROPOSED SHRUB
  - SOIL VOLUME AREA

Soil Volume Area, Tree Quantity and Size	Tree Quantity	OTTAWA Target Soil Volume (m <sup>3</sup> )	Design Soil Volume	Soil Adequacy percentage
<b>AREA A - 3 large trees</b>				
plant bed (123 sq m x 0.6 metre deep)	3	54.0	73.8	136.67%
<b>AREA B - 5 large trees</b>				
plant bed (265 sq m x 0.6 metre deep)	5	90.0	159.0	176.67%
<b>AREA C - 11 large trees 6 existing trees</b>				
plant bed (999 sq m x 0.6 metre deep)	17	306.0	599.4	195.88%
<b>AREA D - 4 large trees, 1 medium tree, 3 existing trees</b>				
plant bed (343 sq m x 0.6 metre deep)	8	141.0	205.8	145.96%
<b>AREA E - 2 large trees</b>				
plant bed (48 sq m x 0.9 metre deep)	2	36.0	43.2	120.00%
<b>AREA F - 1 large trees</b>				
plant bed (37 sq m x 0.9 metre deep)	1	30.0	33.3	111.00%
<b>AREA G - 1 large trees</b>				
plant bed (34 sq m x 0.9 metre deep)	1	30.0	30.6	102.00%
<b>AREA H - 2 large trees</b>				
plant bed (68 sq m x 0.6 metre deep)	2	36.0	40.8	113.33%

**Plant List**

ID	Qty	Botanical Name	Common Name	Sched. Size	Remarks
<b>TREES</b>					
ArAR	3	Acer rubrum 'Autumn Radiance'	Autumn Radiance Red Maple	60mm caliper	WB, Staked
As	2	Acer saccharum	Sugar Maple	60mm caliper	WB, Staked
Co	4	Celtis occidentalis	Common Hackberry	60mm caliper	WB, Staked
GtS	2	Gleditsia triacanthos var. inermis 'Shademaster'	Shademaster Honeylocust	60mm caliper	WB, Staked
Gd	2	Gymnocladus dioica	Kentucky Coffee Tree	60mm caliper	WB, Staked
Jn	3	Juglans nigra	Black Walnut	60mm caliper	WB, Staked
Qm	3	Quercus macrocarpa	Bur Oak	60mm caliper	WB, Staked
Qr	7	Quercus rubra	Northern Red Oak	60mm caliper	WB, Staked
Sd	1	Sorbus decora	Showy Mountain Ash	60mm caliper	WB, Staked
UaVF	2	Ulmus americana 'Valley Forge'	Valley Forge Elm	60mm caliper	WB, Staked
<b>SHRUBS</b>					

**KEY PLAN**

1 NCC SUBMISSION 2023/03/14

Orientation: [North Arrow]

Seal: [Professional Seal of Jp2g Consultants Inc.]

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**Ontario Infrastructure Ontario**

AMIS N B

Project: OTTAWA CARLETON DETENTION CENTRE TEMPORARY PARKING LOT EXPANSION

Location: INNES ROAD, GLOUCESTER TOWNSHIP OTTAWA

Client: [Blank]

Drawing Title: **LANDSCAPE PLAN**

Scale: [Blank] Date: JANUARY 2023

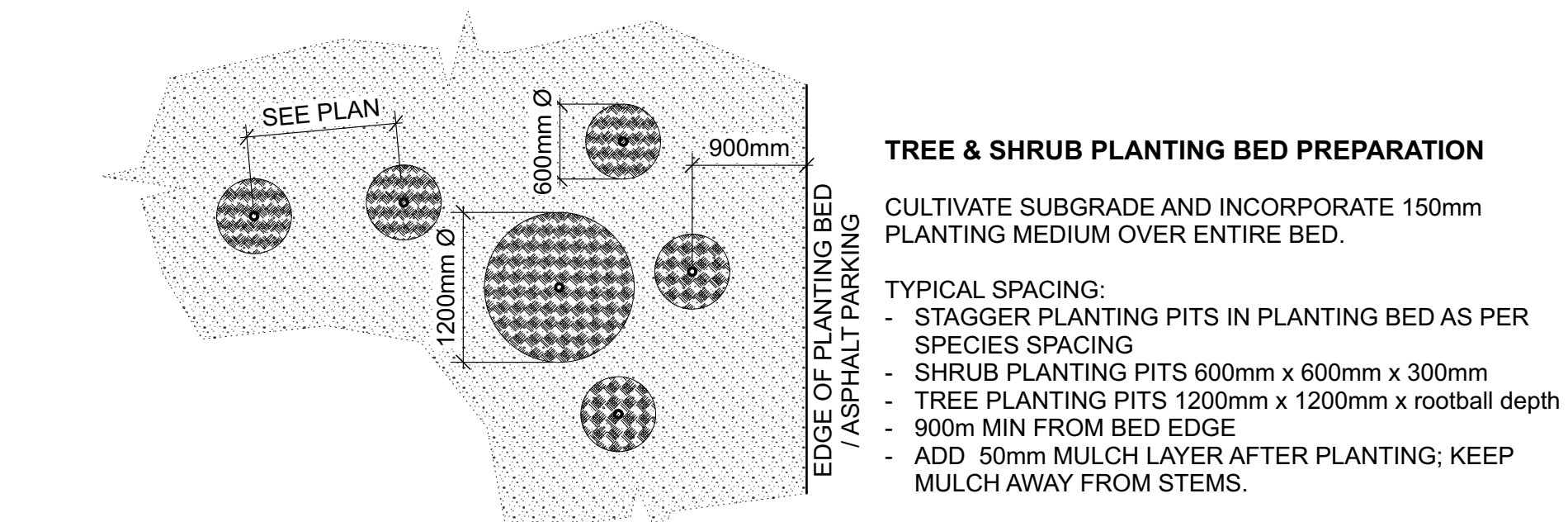
Drawn by: TF Substantial Performance Date: [Blank]

Designed by: MR Drawing No: **L-01**

Approved by: [Blank]

CADD File NAME: [Blank]



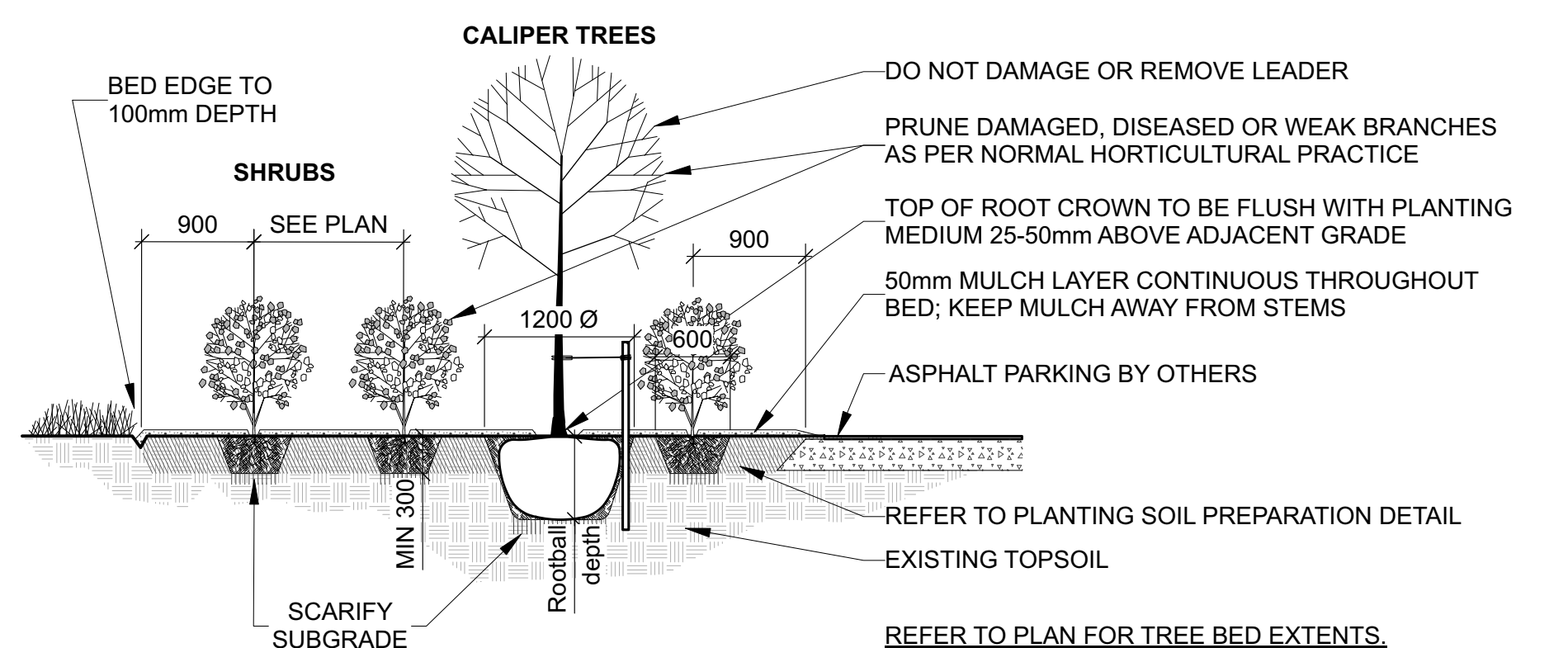


**TREE & SHRUB PLANTING BED PREPARATION**

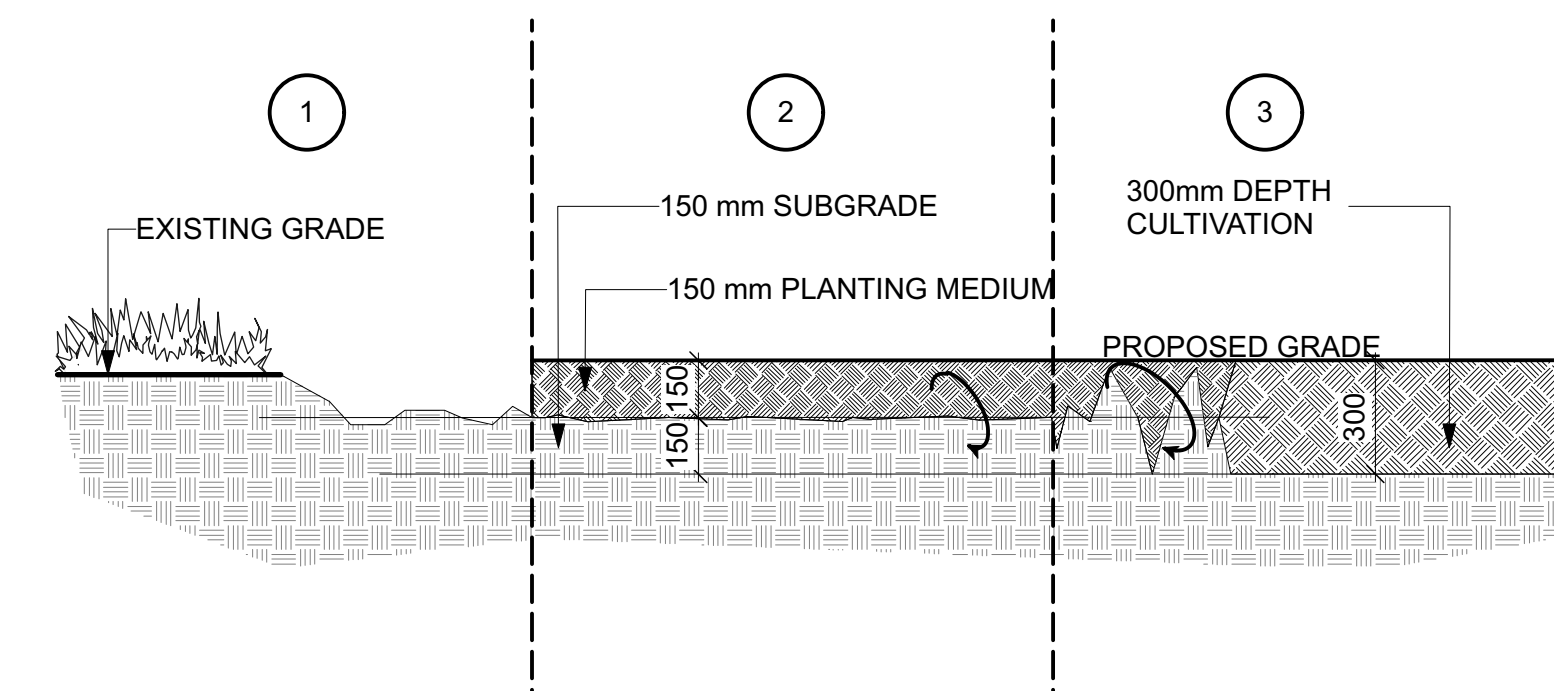
CULTIVATE SUBGRADE AND INCORPORATE 150mm PLANTING MEDIUM OVER ENTIRE BED.

TYPICAL SPACING:

- STAGGER PLANTING PITS IN PLANTING BED AS PER SPECIES SPACING
- SHRUB PLANTING PITS 600mm x 600mm x 300mm
- TREE PLANTING PITS 1200mm x 1200mm x rootball depth
- 900mm MIN FROM BED EDGE
- ADD 50mm MULCH LAYER AFTER PLANTING; KEEP MULCH AWAY FROM STEMS.



**1 TREE AND SHRUB PLANTING BED IN EXISTING SOFT LANDSCAPE**  
Scale: NTS

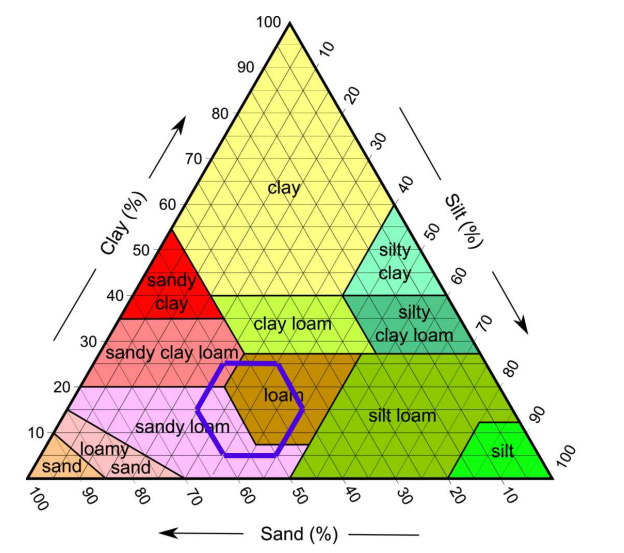


**SOIL PREPARATION**

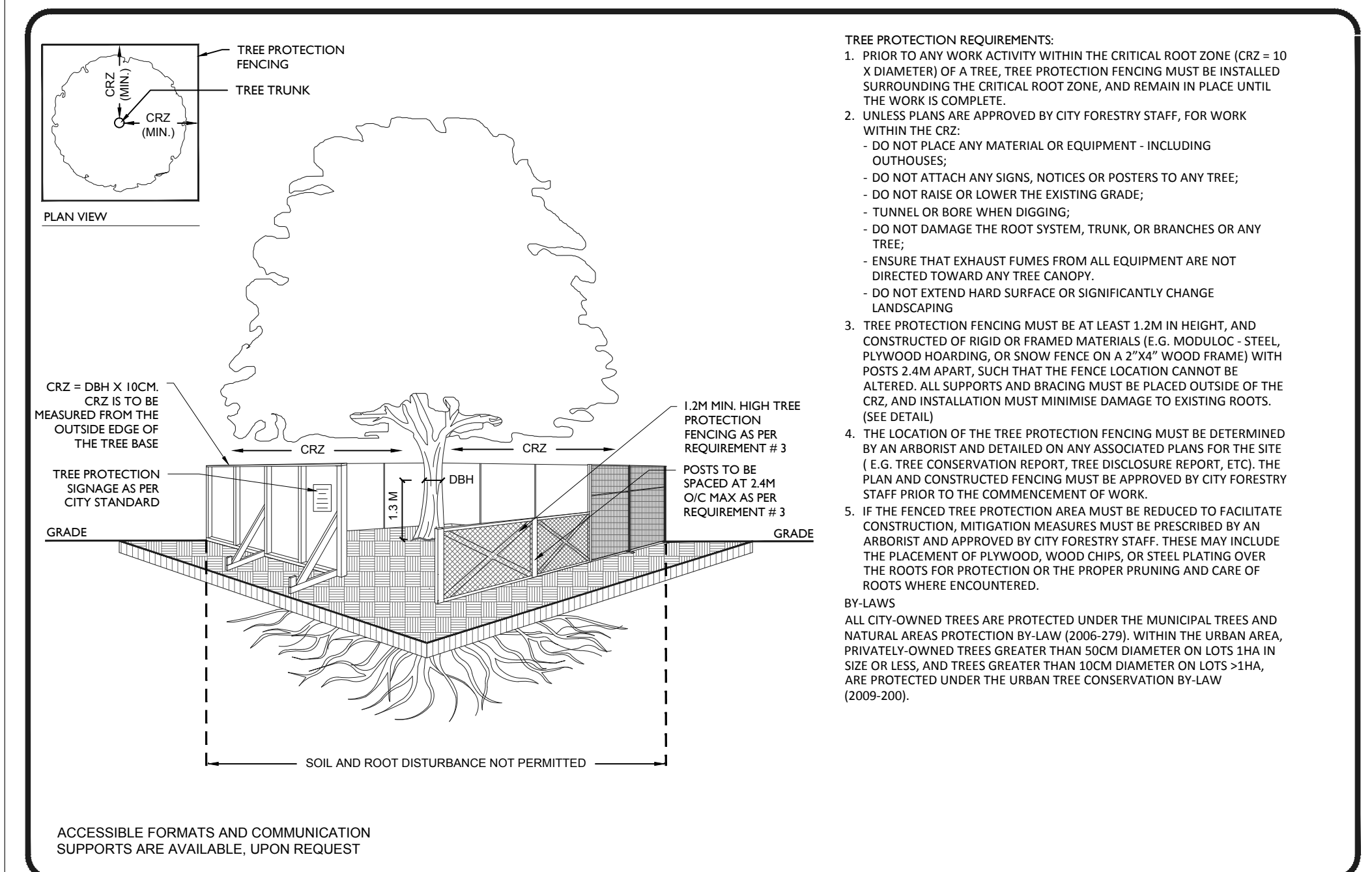
- GRUB OUT GRASSES AND PLANTS (100mm - 150mm average depth)
- PLACE 150mm IMPORTED PLANTING MEDIUM
- CULTIVATE TO A FULL DEPTH OF 300mm FROM TOP OF IMPORTED PLANTING MEDIUM

**2 PLANTING BED PREPARATION**  
Scale: NTS

- IMPORTED TOPSOIL FOR TREE AND SHRUB PLANTING**
- Imported topsoil: mixture of mineral particulates, micro-organisms and organic matter, which provides suitable medium for supporting intended plant growth.
    - Soil texture based on The Canadian System of Soil Classification
      - Friable loam / sandy loam with the following parameters: 40 to 60% sand, 25 to 45% silt, 5 to 25% clay.
      - Containing minimum 4% organic matter by weight.
    - Fertility: macro and micro soil nutrients adequate to support germination and establishment of intended vegetation. Adjust topsoil nutrients to meet analysis recommendations.
    - pH value: 6.0 to 7.5.
    - Contain no toxic elements or growth-inhibiting materials.
    - Free from:
      - Debris and stones over 50mm diameter.
      - Course vegetative material, 10mm diameter and 100mm length, occupying more than 2% of soil volume.
    - Consistency: friable when moist
  - Imported Topsoil amended for use as Planting Medium.
    - Planting Medium: planting medium to be composed of imported Topsoil incorporated with 20% organic matter by volume or 4% - 6% by weight. Ready mixed topsoil can be used after obtaining approval by Consultant prior to shipment to site. Supply all topsoil analysis of mix for approval



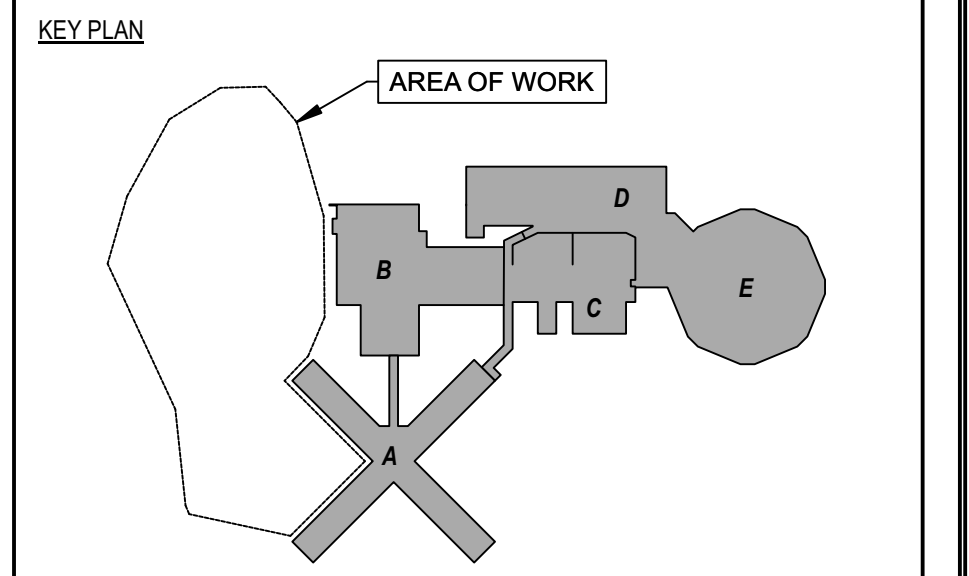
**3 IMPORTED TOPSOIL SPECIFICATIONS**  
Scale: NTS



**TREE PROTECTION SPECIFICATION**

TO 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 WORK ACTIVITIES ON SITE.

SCALE: NTS  
DATE: MAY 2019  
DRAWING NO.: 1 of 1



1	NCC SUBMISSION	2023/03/14
No	Revisions	Date

Orientation:

Seal:

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Infrastructure Ontario

AMIS N B

Project  
**OTTAWA CARLETON DETENTION CENTRE  
TEMPORARY PARKING LOT EXPANSION**

Location  
**INNES ROAD, GLOUCESTER TOWNSHIP  
OTTAWA**

IO Project No \_\_\_\_\_ Site No \_\_\_\_\_ Building No \_\_\_\_\_

Client \_\_\_\_\_

Drawing Title

**DETAILS**

Scale: 1:1 pdf Date: JANUARY 2023

Drawn by: TF Substantial Performance Date

Designed by: MR Drawing No: L-02

Approved by: \_\_\_\_\_ CADD File NAME