



**TOTAL PARKING AREA = 8250m<sup>2</sup>**  
**TOTAL CANOPY AREA = 3290m<sup>2</sup>**  
**Percentage cover = 39.8%**  
**SOFT AREA = 2350m<sup>2</sup>**  
**Percentage soft = 28.5**

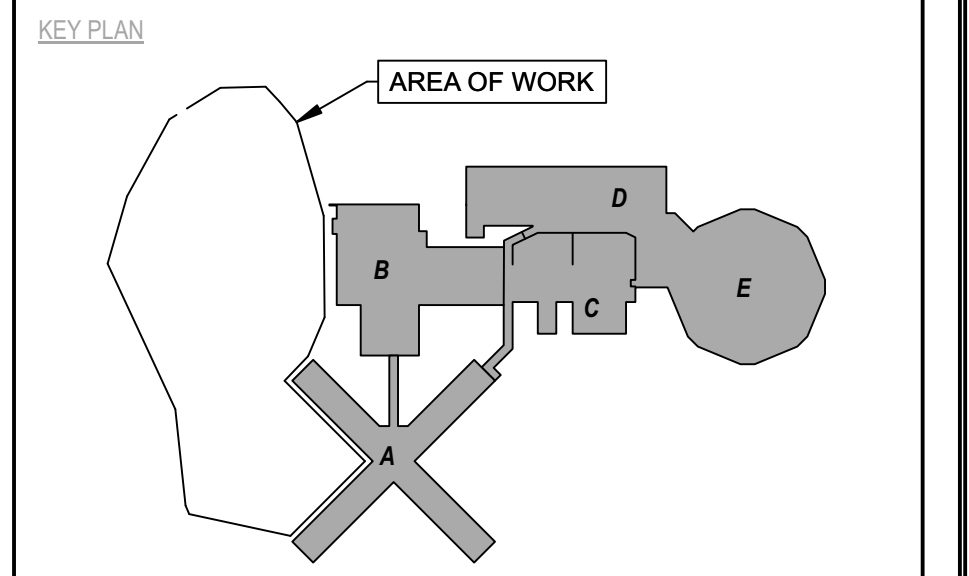
**TOTAL PROPOSED TREES: 29**  
**TOTAL PROPOSED SHRUBS: 9+**

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:  
 T35, T45, T46, T47, T48, T49, T50, T51, T52, T53, T54, T55 FOR A TOTAL OF 16 TREES.

TREE CANOPY COVERAGE	
TOTAL CANOPY AREA	3333 23
TOTAL PARKING AREA	8256 m2
PERCENT COVERAGE	40%



No	Revisions	Date
5	SPC RESUBMISSION	2024/01/12
4	NCC & SPC RESUBMISSION	2023/11/09
3	SPC RESUBMISSION	2023/10/24
2	SPC SUBMISSION	2023/03/14
1	NCC SUBMISSION	2023/03/14

Orientation:

Seal:

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A	A Detail No
B	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 Fax 613-224-1131 info@rala.ca www.rala.ca

**LEGEND**

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

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  
**TREE CANOPY PLAN**

Scale	Date
Drawn by TF	JANUARY 2023
Designed by MR	Substantial Performance Date
Approved by	Drawing No <b>TC-1</b>

CADD File NAME \_\_\_\_\_ of \_\_\_\_\_



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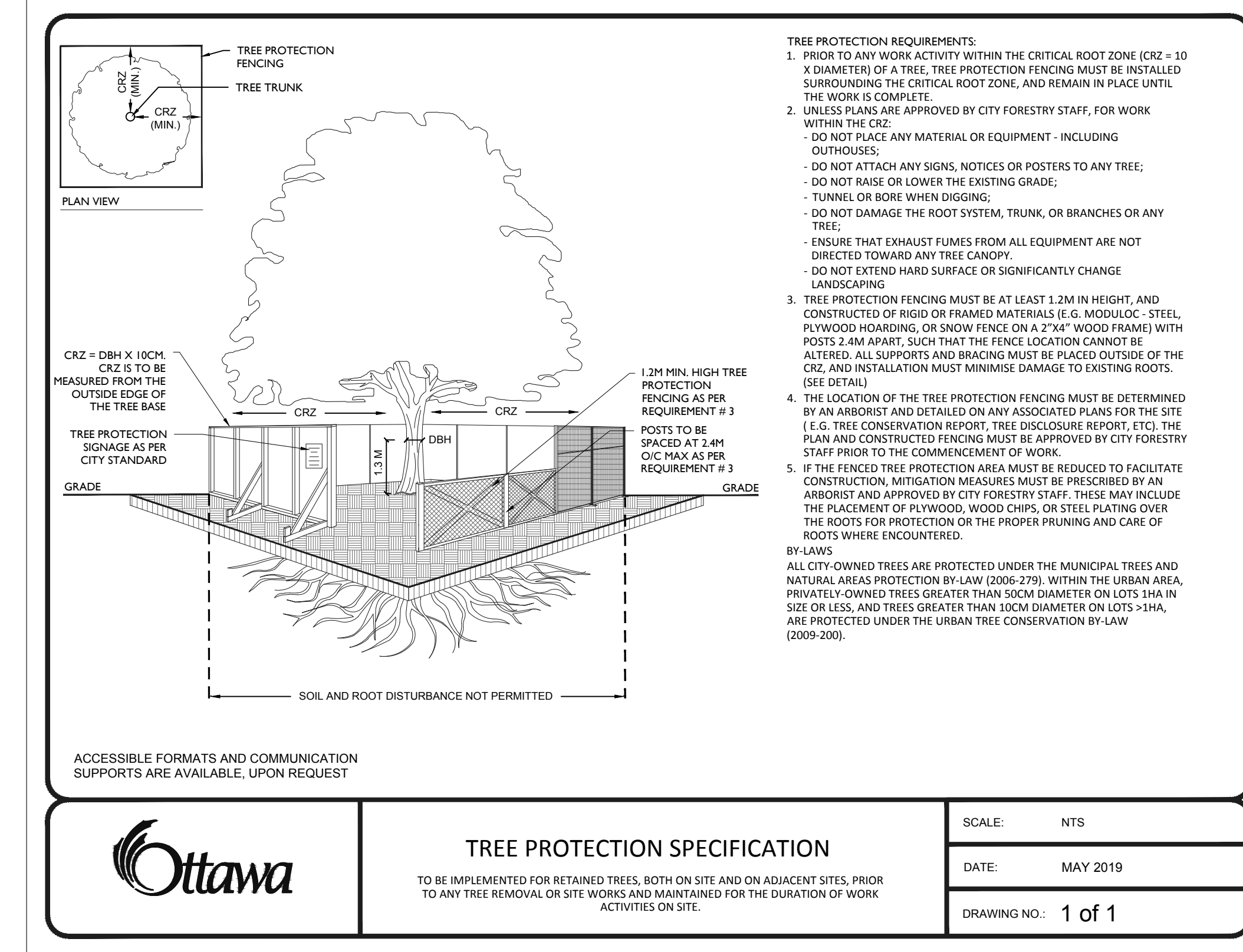
**GENERAL NOTES**

- 1 All general site information and conditions compiled from existing plans, surveys and Consultant's field notes. Report all discrepancies prior to any work. No responsibility is born by the Consultant for unknown subsurface conditions.
- 2 The location of the utilities is approximate only, and the exact location should be determined by consulting the Municipal Authorities and Utility Companies concerned. The Contractor shall prove the location of utilities and shall be responsible for adequate protection from damage.
- 3 No tree, designated on this plan as to stay, shall be removed. Where conditions in the field affect the safety or retention of the designated tree, the Consultant and Owner are to be notified.
- 4 Pruning of existing trees shall be done only where required for safety purposes and done under the direction of the Consultant. Pruning to be done only by a qualified Arborist.
- 5 Review project with Consultant and Owner prior to commencing any on site work.

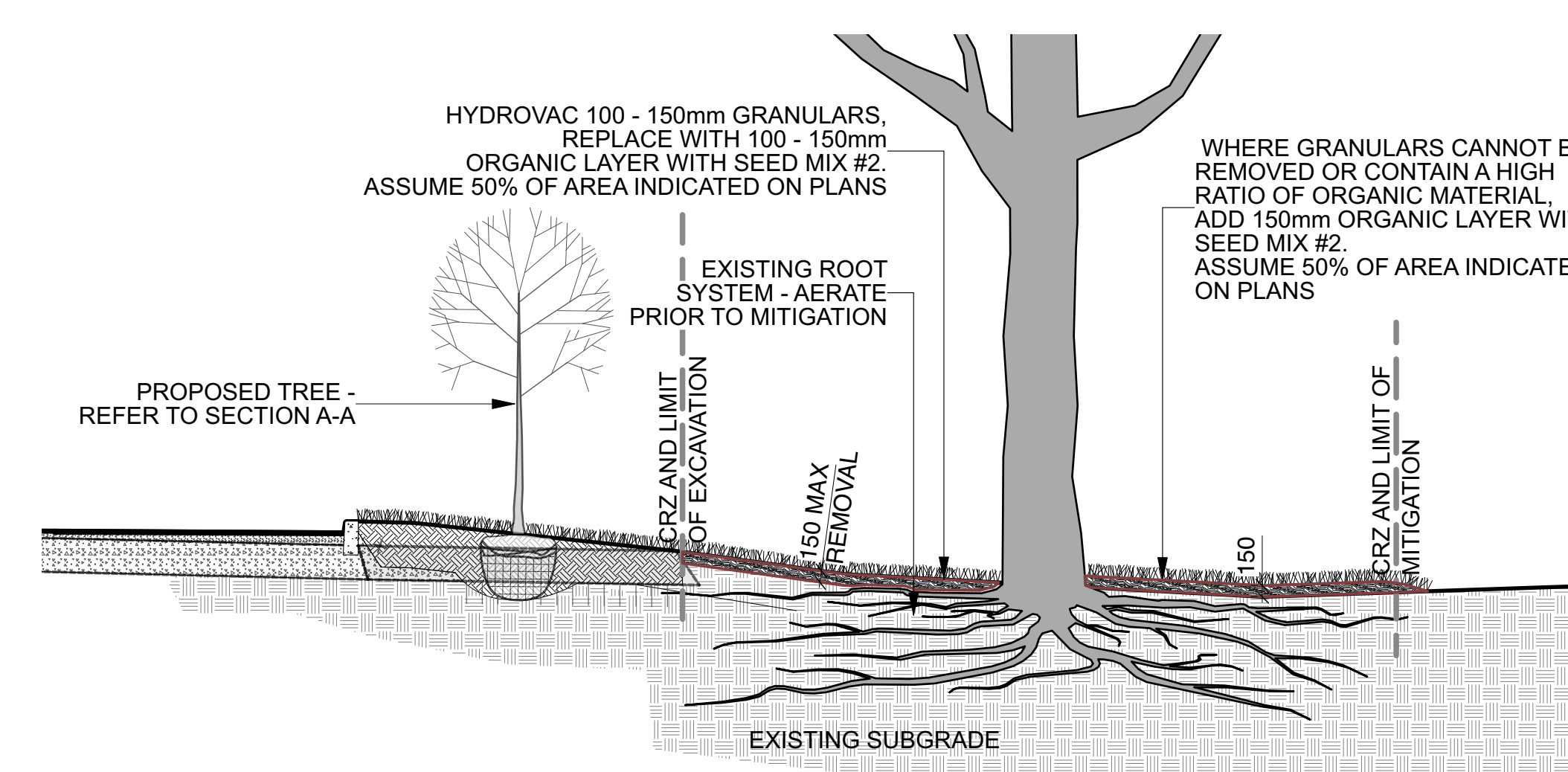


- LEGEND**
- EXTENT OF WORK
  - ~ WETLAND
  - ~ WETLAND 5m offset
  - EXISTING FENCE
  - TREE PROTECTION FENCE
  - EXISTING UTILITIES
  - BUILDING
  - EXISTING ASPHALT / GRANULARS TO BE REMOVED \*
  - MITIGATION AT EXISTING GRANULARS BENEATH TREES
  - PROPOSED PARKING AND PAINTED AREAS
  - PROPOSED / EXISTING LIGHT (BY OTHERS)
  - EXISTING TREE TO BE PRESERVED
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE CRITICAL ROOT ZONE

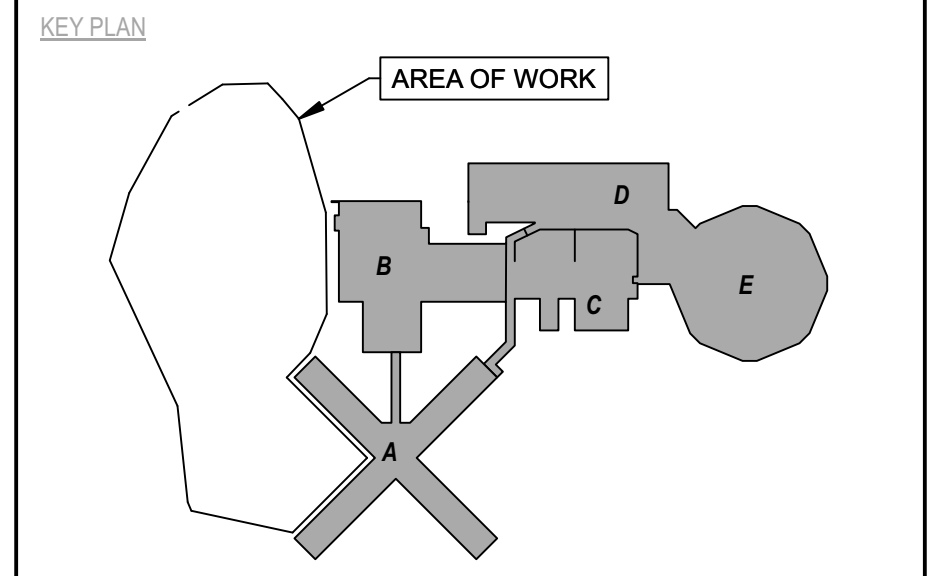
\* NOTE: REMOVAL FOR THE INSTALLATION OF PROPOSED TREES AND REQUIRED PLANTING MEDIUM. REFER TO CIVIL FOR REMAINDER OF REMOVALS



	<b>TREE PROTECTION SPECIFICATION</b>	SCALE: NTS
	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.	DATE: MAY 2019
		DRAWING NO.: 1 of 1



1 MITIGATION AT EXISTING TREES  
L-1 Scale: NTS



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Orientation

Seal

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B	B Sheet No where detailed

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**Jp2g Consultants Inc.**  
ENGINEERS • PLANNERS • PROJECT MANAGERS  
1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON K2H 8S9  
PHONE: 613-828-7808 FAX: 613-828-2600  
Jp2g Project #: 20-5060A

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AMIS N B  
Project  
OTTAWA CARLETON DETENTION CENTRE  
TEMPORARY PARKING LOT EXPANSION

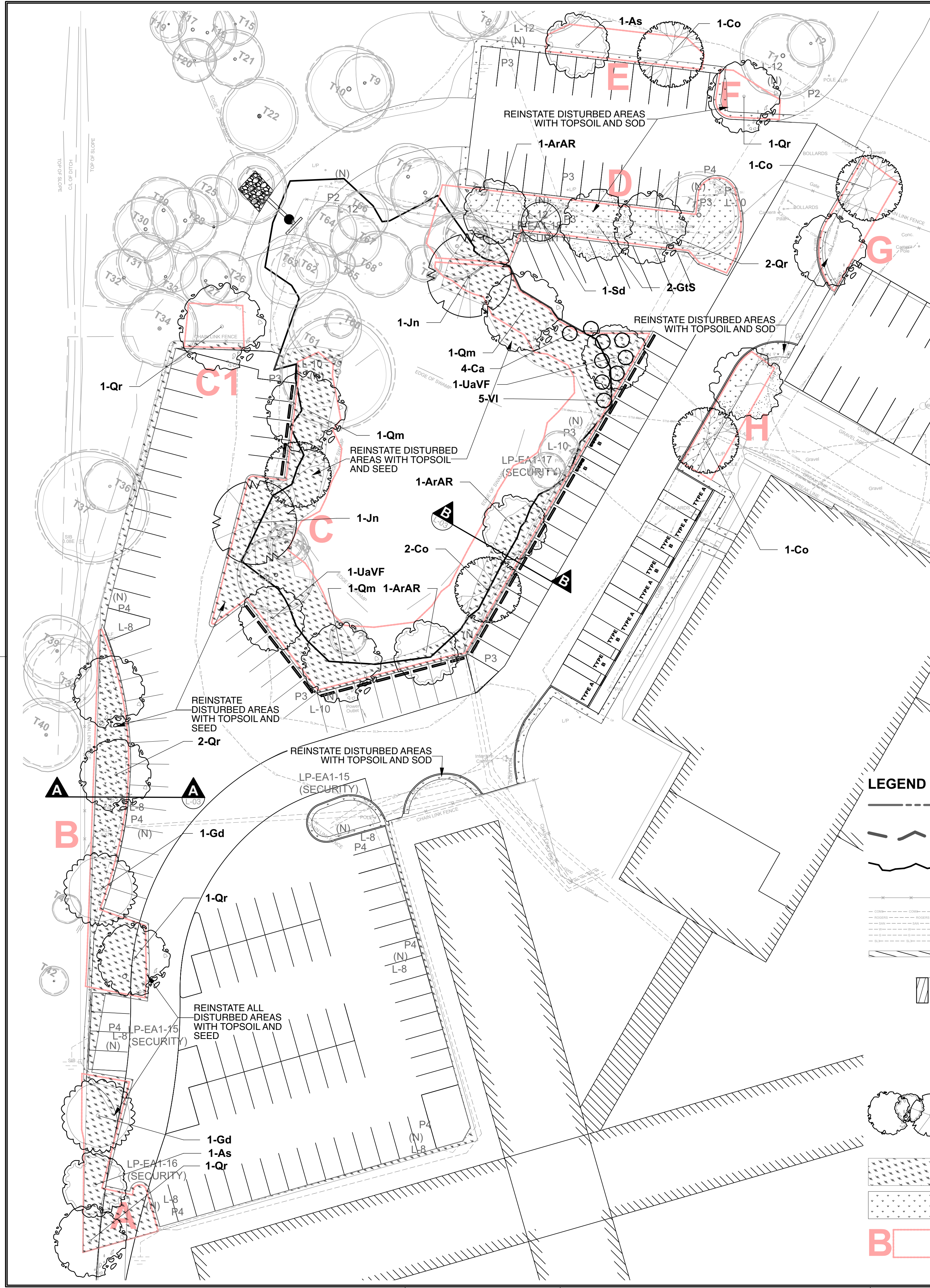
Location  
INNES ROAD, GLOUCESTER TOWNSHIP  
OTTAWA  
IO Project No Site No Building No

Client

Drawing Title  
**EXISTING TREE PRESERVATION / TREE REMOVALS PLAN**

Scale	Date	JANUARY 2023
Drawn by	Substantial Performance Date	
TF		
Designed by	Drawing No	<b>L-1</b>
MR		of
Approved by	CADD File Name	





**NOTES:**  
**TOPSOIL REQUIREMENTS FOR TREE PLANTING**

**.1 WHERE THERE ARE EXISTING GRANULARS AND/OR ASPHALT:**  
 MINIMUM IMPORTED TOPSOIL DEPTH TO BE 400mm (ACCEPTABLE WHERE THERE IS APPROVED SUBGRADE BELOW). WHERE EXISTING GRANULARS ARE ENCOUNTERED BELOW 400mm DEPTH, EXCAVATE TO A MAXIMUM DEPTH OF 600mm OR TO APPROVED SUBGRADE. PLACE MINIMUM 400mm DEPTH PLANTING MEDIUM WITHIN REQUIRED SOIL VOLUME AREA BETWEEN TREE PITS (900mm INSIDE 2m RADIUS TREE PITS), AND STOPPING AT CRZ OF EXISTING TREES. ADDITIONAL REQUIRED DEPTH (as shown in chart) TO CONSIST OF EXISTING SUBSOIL. WHERE SUBSOIL IS NOT CONDUCTIVE TO PLANT GROWTH, THE REMAINDER OF THE REQUIRED DEPTH TO CONSIST OF IMPORTED TOPSOIL.  
**BASE CONTRACT TO ASSUME SUBSOIL IS CONDUCTIVE TO PLANT GROWTH AND GRANULAR DEPTH AS 400mm.**

**.2 WHERE THERE IS EXISTING SOFT LANDSCAPE:**  
 PLACE MINIMUM 300mm DEPTH PLANTING MEDIUM (900mm INSIDE 2m RADIUS TREE PITS) WITHIN SOIL VOLUME AREA, AND AT ALL EXCAVATED AREAS (WITHIN CONSTRUCTION EXCAVATION LIMITS) THAT MAY BE WITHIN THE SOIL VOLUME AREAS. ASSUME ALL REMAINDER OF SOIL VOLUME REQUIREMENTS ARE MET. REINSTATE ANY ADDITIONAL DISTURBED AREAS WITH 150mm TOPSOIL AND SOD.  
**BASE CONTRACT TO ASSUME SUBSOIL AND EXCAVATION BACKFILL IS CONDUCTIVE TO PLANT GROWTH.**

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 (135 sq m x 0.4 metre deep)	3	54.0	54.0	100.00%
<b>AREA B - 5 large trees</b> plant bed (210 sq m x 0.4 metre deep)	4	72.0	84.0	116.67%
<b>AREA C - 11 large trees, 5 existing trees</b> plant bed (885 sq m x 0.4 metre deep)	16	288.0	354.0	122.92%
<b>AREA C1 - 1 large tree (continuous area)</b> plant bed (45 sq m x 0.4 metre deep)	1	18.0	18.0	100.00%
<b>AREA D - 3 large trees, 1 medium tree, 3 existing trees</b> plant bed (300 sq m x 0.4 metre deep)	7	123.0	120.0	97.56%
<b>AREA E - 2 large trees</b> plant bed (80 sq m x 0.4 metre deep)	2	36.0	32.0	88.89%
<b>AREA F - 1 large tree (continuous area)</b> plant bed (40 sq m x 0.4 metre deep)	1	18.0	16.0	88.89%
<b>AREA G - 2 large trees</b> plant bed (85 sq m x 0.4 metre deep)	2	36.0	34.0	94.44%
<b>AREA H - 2 large trees</b> plant bed (80 sq m x 0.4 metre deep)	2	36.0	32.0	88.89%

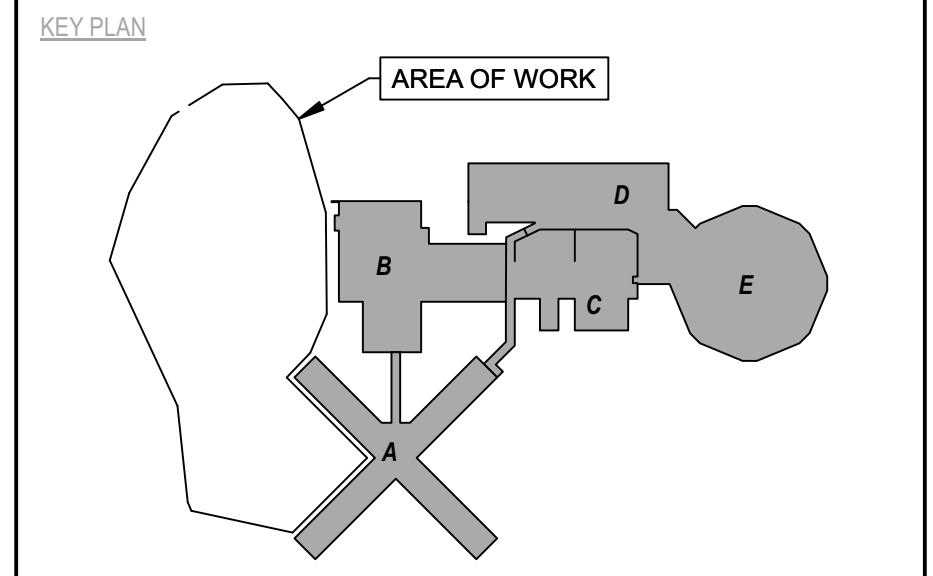
\* Small ornamental trees with growth to 8-15cm DBH, large shrubs, and columnar conifers calculated using 'How much soil to grow a big tree' by DeepRoot as a guide

**LEGEND**

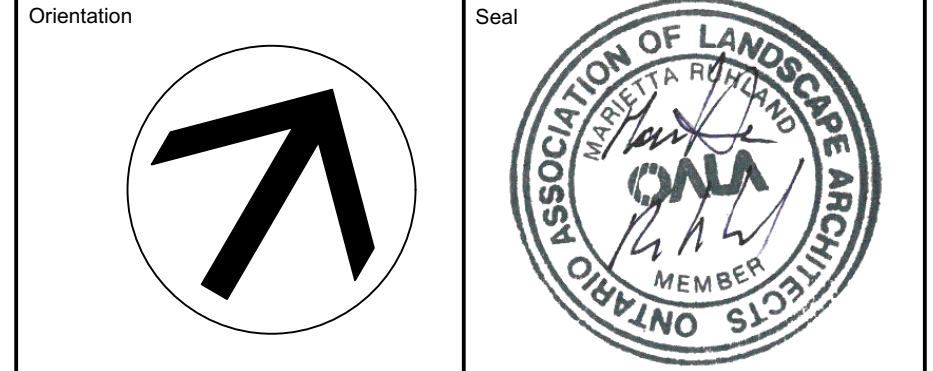
- EXTENT OF WORK
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- EXISTING UTILITIES
- BUILDING
- PROPOSED PARKING AND PAINTED AREAS
- PROPOSED / EXISTING LIGHT (BY OTHERS)
- EXISTING TREE
- EXISTING TREE CRITICAL ROOT ZONE
- PROPOSED TREES
- PROPOSED SHRUBS
- PROPOSED SEED
- PROPOSED SOD
- SOIL VOLUME AREA

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- Pruning of existing trees shall be done only to repair existing damage, as shown on plan or as directed by the Consultant or Owner. Pruning to be done only by a qualified Arborist.
- Review project with Consultant prior to commencing any on site work.
- All dimensions shown are to be verified on site prior to any construction. No deviations are to be made from the layouts as shown on this plan without prior consultation with the Consultant or Owner.
- All sodded areas to receive a minimum of 150mm of topsoil over graded sub-base. Do not use mesh. Sod shall come from an approved source and shall be laid within 24 hours of being cut in the nursery. Only nursery sod shall be used.
- Stake planting locations and receive approval of the Consultant, prior to excavation of any planting pits. No substitutions of plant material shall be made without prior approval(s) of the Consultant.
- Where clay is encountered proper drainage must be ensured in tree/shrub pits, prior to planting. Have method approved by the Consultant.
- Final subgrade is to be approved by the Consultant prior to importing topsoil and sod being laid.
- Maintain positive surface runoff through the entire construction period.
- Reinstate all areas and items damaged as a result of construction activities.



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A A Detail No  
 B B Sheet No where detailed

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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  
**LANDSCAPE PLAN**

Scale \_\_\_\_\_ Date **JANUARY 2023**

Drawn by **TF** Substantial Performance Date \_\_\_\_\_

Designed by **MR** Drawing No **L-2** of \_\_\_\_\_

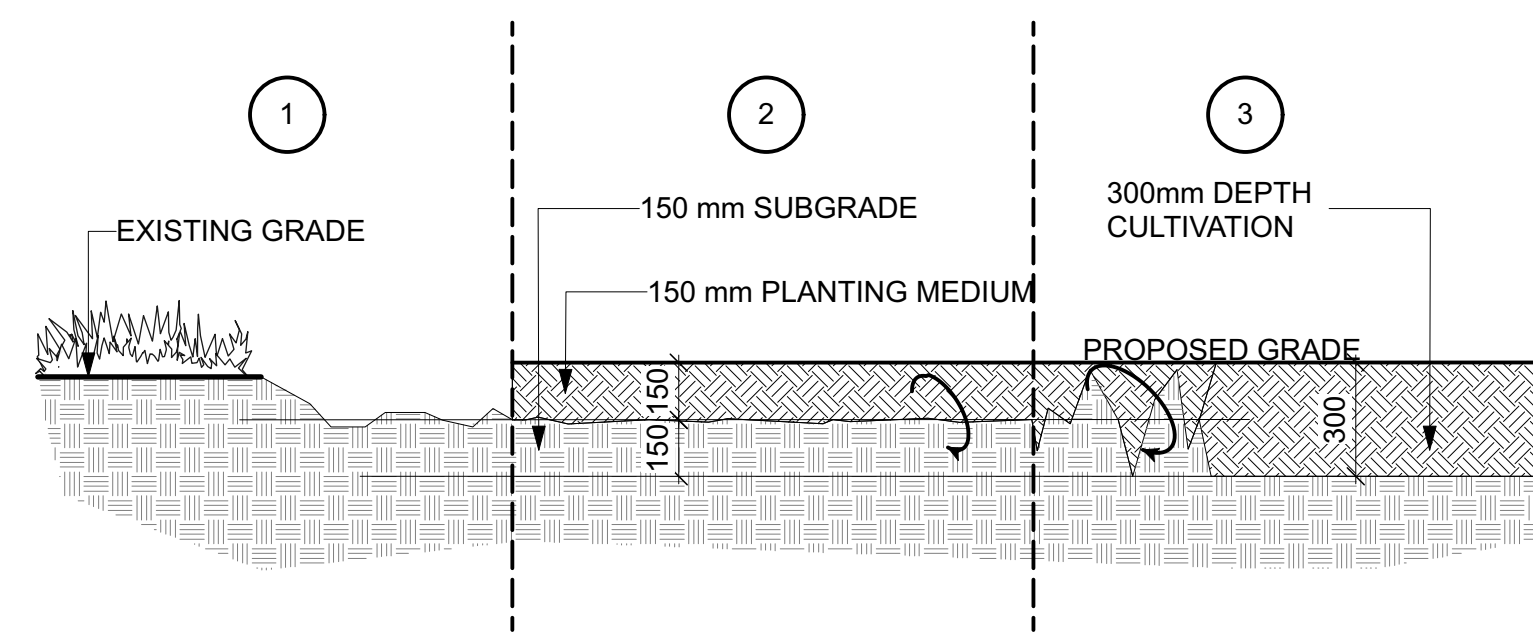
Approved by \_\_\_\_\_ CADD File NAME \_\_\_\_\_

**Plant List**

Origin	ID	Qty	Botanical Name	Common Name	Sched.	Size	Remarks
<b>30 TREES</b>							
Ntv	H	ArAR	3 Acer rubrum	Red Maple	70mm	caliper	WB, Staked
Ntv	As	2	Acer saccharum	Sugar Maple	70mm	caliper	WB, Staked
Ntv	Co	5	Celtis occidentalis	Common Hackberry	70mm	caliper	WB, Staked
Ntv	H	GtS	2 Gleditsia triacanthos var. inermis 'Shademaster'	Shademaster Honeylocust	70mm	caliper	WB, Staked
Ntv	Gd	2	Gymnocladus dioica	Kentucky Coffee Tree	70mm	caliper	WB, Staked
Ntv	Jn	2	Juglans nigra	Black Walnut	70mm	caliper	WB, Staked
Ntv	Qm	3	Quercus macrocarpa	Bur Oak	70mm	caliper	WB, Staked
Ntv	Qr	8	Quercus rubra	Northern Red Oak	70mm	caliper	WB, Staked
Ntv	Sd	1	Sorbus decora	Showy Mountain Ash	70mm	caliper	WB, Staked
Ntv	H	UaVF	2 Ulmus americana 'Valley Forge'	Valley Forge Elm	70mm	caliper	WB, Staked
<b>9 SHRUBS</b>							
Ntv	Ca	4	Cornus alternifolia	Alternate-Leafed Dogwood	150cm	ht.	B&B
Ntv	Vi	5	Viburnum lentago	Nannyberry Viburnum	150cm	ht.	B&B

KEY: Ntv = Native species; Ntv H = Horticultural variety of Native species, Non N = Non-native species



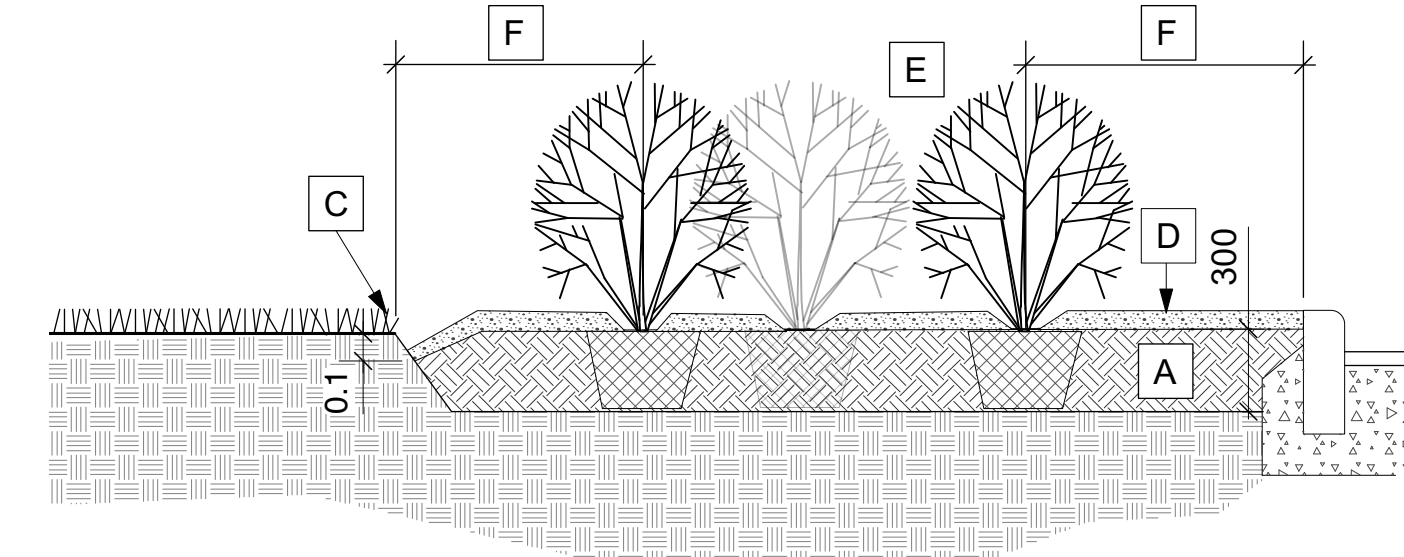


**SOIL PREPARATION**

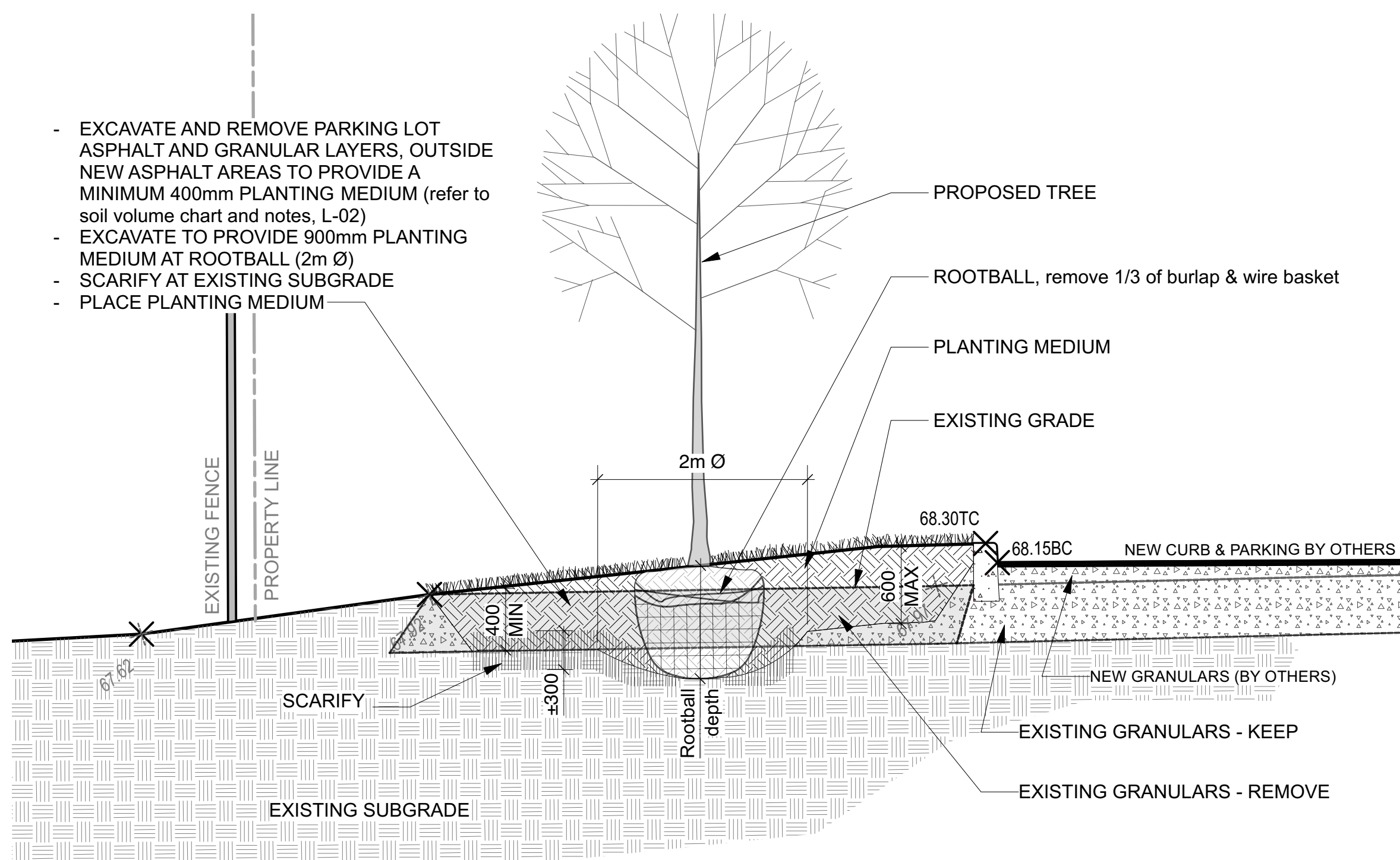
- GRUB OUT GRASSES AND PLANTS (100mm - 150mm average depth)
- PLACE 150mm IMPORTED PLANTING MEDIUM
- CULTIVATE TO A FULL DEPTH OF 300mm FROM TOP OF IMPORTED PLANTING MEDIUM
- PLACE 150mm IMPORTED PLANTING MEDIUM
- CULTIVATE TO A FULL DEPTH OF 300mm FROM TOP OF IMPORTED PLANTING MEDIUM

**1 SHRUB BED PREPARATION**  
Scale: NTS

- A COMPACTED PLANTING MEDIUM (SEE SHRUB BED PREPARATION)
- B ROOTBALL / POT
- C EDGE TO DEPTH OF 100mm
- D 50-75 mm MULCH LAYER, KEEP MULCH AWAY FROM STEMS
- E PRUNE DAMAGE, DISEASED OR WEAK BRANCHES AS PER ACCEPTED HORTICULTURAL PRACTICE
- F SHRUBS TO BE PLANTED 900mm MIN FROM EDGE OF BED/CURB

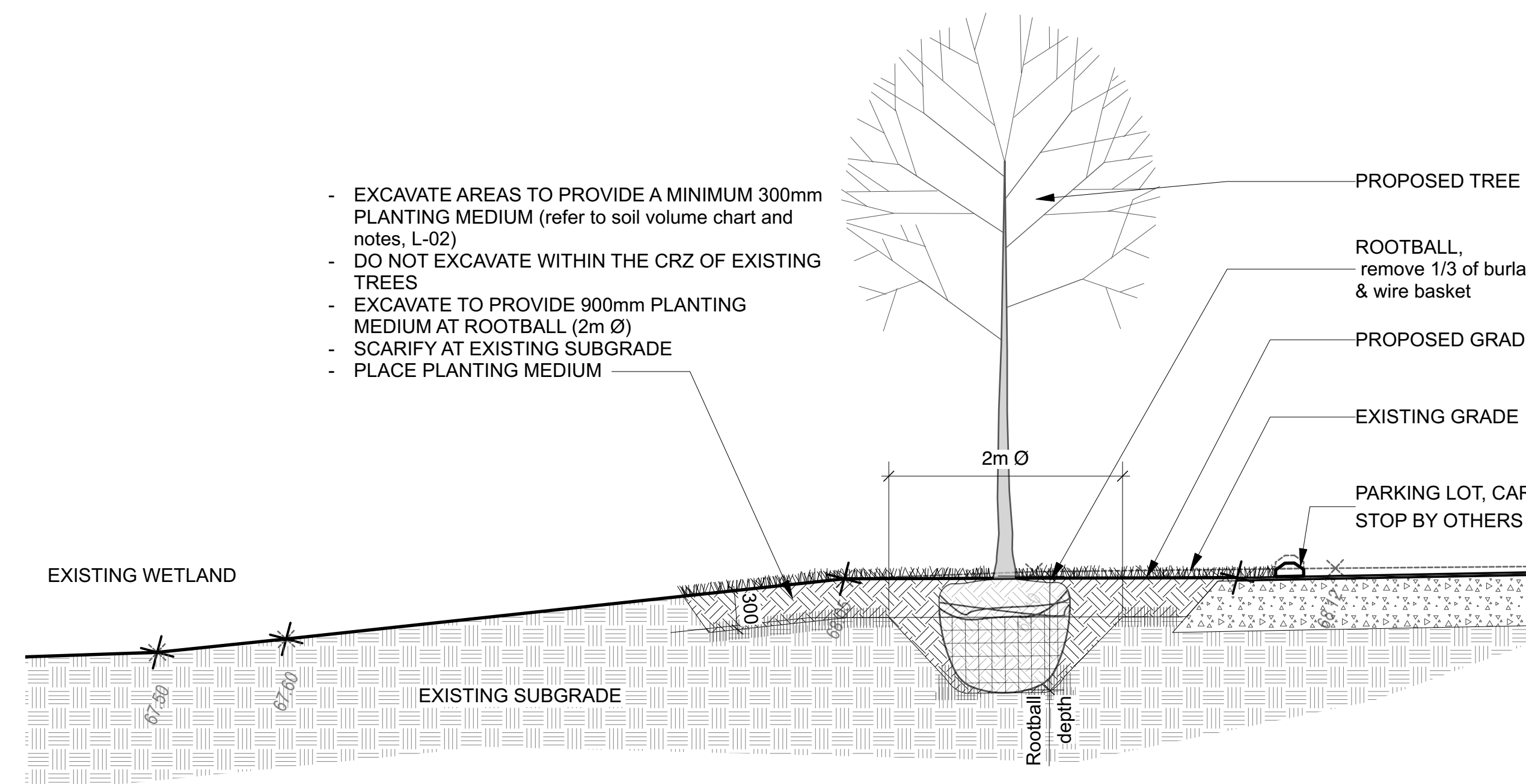


**2 SHRUB PLANTING**  
Scale: NTS



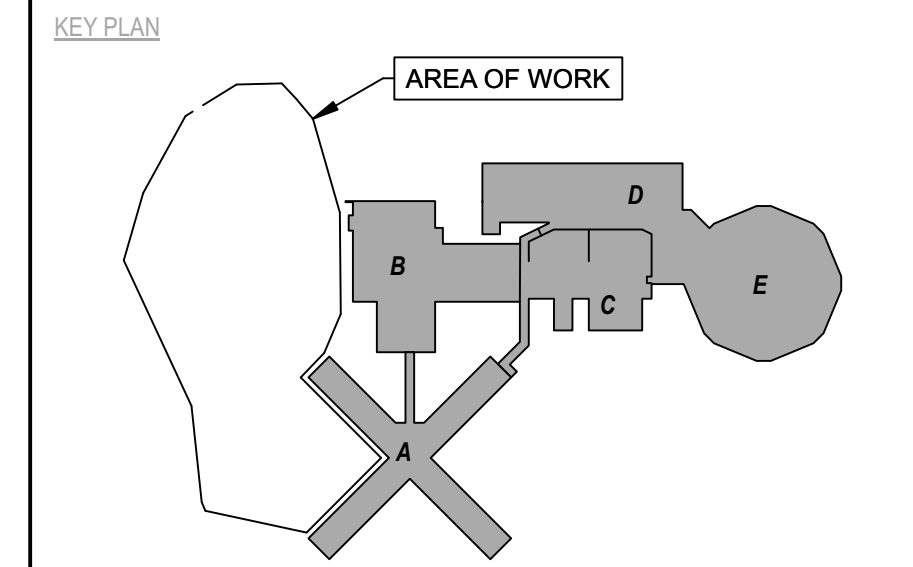
**AA SECTION A-A - TREE PLANTING AT ASPHALT / GRANULAR REMOVAL**  
Scale: NTS

MINIMUM IMPORTED TOPSOIL DEPTH = 400mm (ACCEPTABLE WHERE THERE IS APPROVED SUBGRADE BELOW) WHERE EXISTING GRANULARS ARE ENCOUNTERED AT 400mm DEPTH, EXCAVATE TO A MAXIMUM DEPTH OF 600mm OR TO APPROVED SUBGRADE



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

MINIMUM IMPORTED TOPSOIL DEPTH = 300mm (ACCEPTABLE WHERE THERE IS APPROVED SUBGRADE BELOW) WHERE EXISTING GRANULARS ARE ENCOUNTERED AT 400mm DEPTH, EXCAVATE TO REQUIRED DEPTH FOR SOIL VOLUME REQUIREMENTS, OR TO APPROVED SUBGRADE



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TEMPORARY PARKING LOT EXPANSION**

Location  
INNES ROAD, GLOUCESTER TOWNSHIP  
OTTAWA

Client

**DETAILS**

Scale	Date
TF	JANUARY 2023
MR	Substantial Performance Date
Approved by	Drawing No
	<b>L-3</b>
CADD File NAME	