

EXISTING TREE CANOPY COVER:

EXISTING CANOPY COVERAGE - As surveyed in year 2024				
	AVERAGE MATURE SPREAD	CANOPY COVERAGE PER TREE AT MATURITY (m2)	QUANTITY OF TREES	TOTAL CANOPY COVERAGE (m2)
Existing Large Deciduous trees (tree #1, #7, #8)	10m	79	3	237
Existing Small Deciduous trees (tree #6)	4.5m	16	1	16
Existing Coniferous trees on site (tree#3)	5m	20	1	20
TOTAL EXISTING CANOPY COVERAGE RETAINED (m2):				273

1. Area of a circle = $(r \times r) \times \pi$
 2. Canopy coverage per tree calculation: $(\text{average mature spread}/2) \times (\text{average mature spread}/2) \times \pi$
 3. Canopy calculations do not include Trees 2, 4, 5, and 9 because they are on the neighbouring site. Tree 1 and 3 are included because they are close to the property line of the subject site, and/or will be impacted by the proposed development.



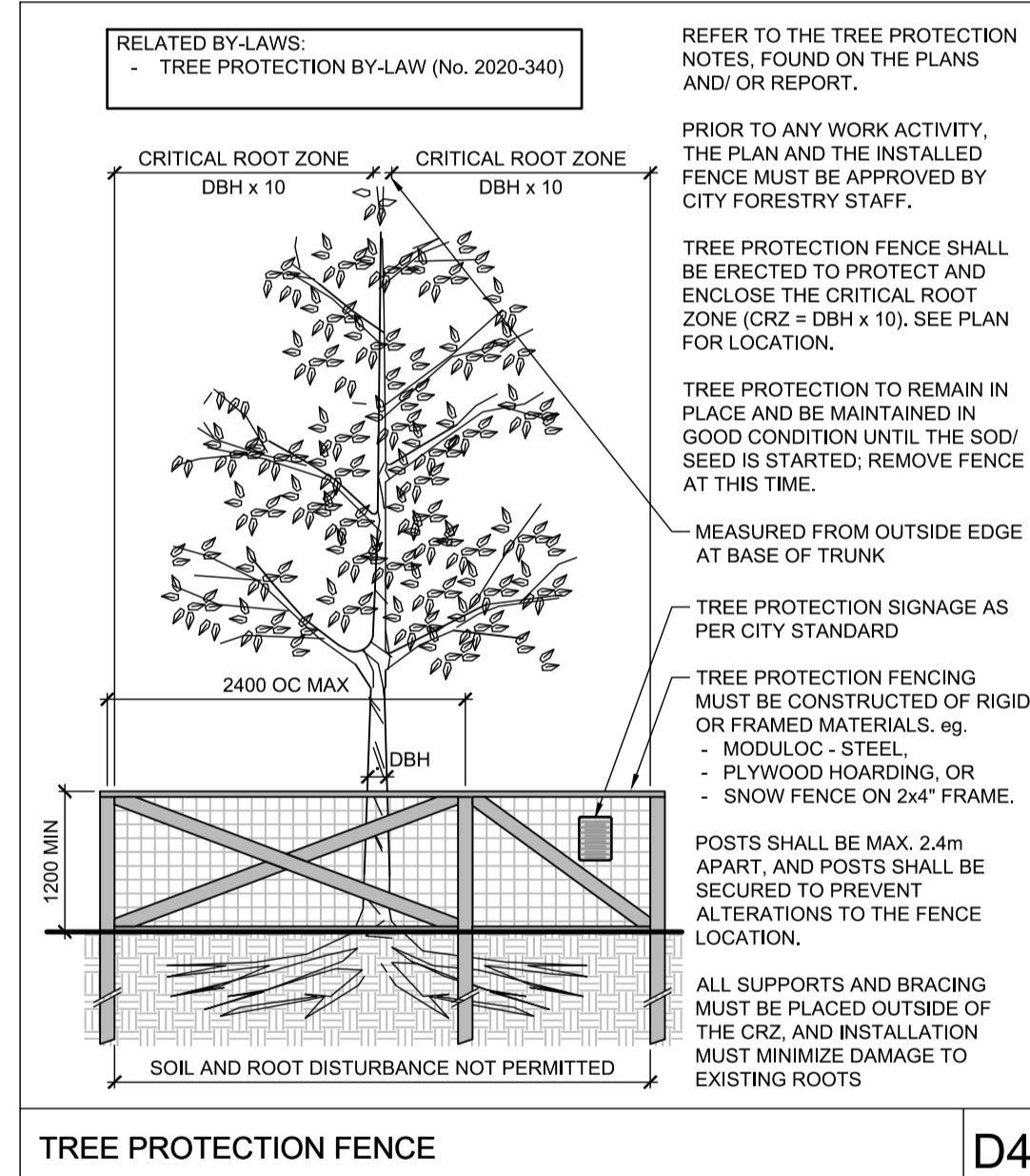
LEGEND

- 3-D1 DETAIL SHEET # NOVATECH OR CITY DETAIL NUMBER SEE LIST FOR CODE
- EXISTING TREE TO REMAIN. SYMBOL SIZE REFLECTS CRZ
- EXISTING TREE TO REMOVE. SYMBOL SIZE REFLECTS CRZ
- PROPERTY LIMIT
- TREE PROTECTION FENCE
- PROPOSED BUILDING
- EXISTING BUILDING

TREE PROTECTION

Implement the following protection measures for retained trees, both on site and on adjacent sites, prior to any work activity, including tree removal. Maintain tree protection fence in place and in good condition for the duration of site works:

- The Landscape Architect or Certified Arborist is to determine the location of the tree protection fencing and detail it on any associated plans for the site (e.g. tree conservation report, tree disclosure report, etc.).
- Under the guidance of a Landscape Architect or Certified Arborist, erect a fence at the critical root zone (CRZ) of trees. Diameter at breast height (DBH) is the trunk diameter measured at 1.3m height on the tree trunk. The CRZ is calculated as $DBH \times 10$. Refer to the Tree Protection Fence detail.
- Refer to the Tree Protection Plan for fence location. City Forestry Staff are to approve both the plan and the installed fence prior to work commencement.
- Do not place any material or equipment within 2m of the CRZ of any tree, including outhouses.
- Do not attach any signs, notices, or posters to any tree.
- Do not disturb, raise, or lower the existing grade within the CRZ without approval.
- Only tunnel or bore when digging within the CRZ of a tree. Hand work only where required within the CRZ; absolutely no machinery permitted.
- Do not damage the root system, trunk, or branches, or any tree.
- Do not extend hard surface or significantly change landscaping.
- Ensure that exhaust fumes from all equipment are directed away from any tree canopy.
- When trees marked for removal overlap with the CRZ of trees marked for preservation: cut roots at the edge of the CRZ and grind down stumps after tree removals, do not pull out stumps. Ensure there is no root pulling or disturbance of the ground within the CRZ.
- Prior to work taking place, notify and consult the Landscape Architect and City Forestry Staff if roots must be cut. Roots 20mm or larger should be cut at right angles with clean, sharp horticultural tools without tearing, crushing, or pulling. Refer to City of Ottawa Specification S.P. F-8011 Tree Protection, Excavation of Root Zone.
- If damaged or objectionable branches are observed, consult the Landscape Architect, before any work is conducted. Do not prune leaders. Do not prune more than 1/4 of crown.
- Set up a water and fertilizing program, if trees are being affected by site works, to the satisfaction of the Landscape Architect.
- The Landscape Architect is to prescribe mitigation measures if the protected fenced area must be reduced to facilitate construction. Measures may include the placement of plywood, wood chips, or steel plating over the roots for protection. City Forestry Staff are to approve said measures prior to fence movement.
- City of Ottawa By-law: Protects municipal trees and municipal natural areas in the City of Ottawa and trees on private property in the urban area of the City of Ottawa (2020-340).



EXISTING TREE INVENTORY:

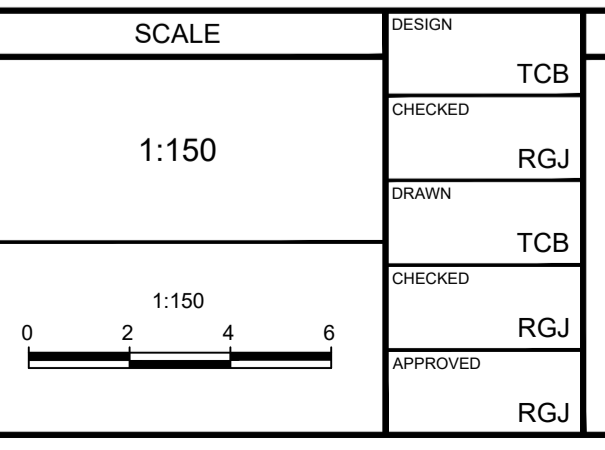
No.	Botanical Name	Common Name	DBH (cm)	CRZ (m)	Condition	Owner	Remarks	Recomm.
1	<i>Acer platanoides</i>	Norway Maple	30.0	3.00	F	City	Girdling roots, mechanical damage	Conflict
2	<i>Acer rubrum</i>	Red Maple	10.0	1.00	G	City	replacement tree in ROW, healthy	PROTECT
3	<i>Picea glauca</i>	White Spruce	30.0	3.00	G	Private on adjoining site		Conflict
4	<i>Picea pungens</i>	Colorado Spruce	27.0	2.70	G	Private on adjoining site		PROTECT
5	<i>Picea glauca</i>	White Spruce	17.0	1.70	G	Private on adjoining site		PROTECT
6	<i>Magnolia</i>	Magnolia	15.0	1.50	P	Client	Multistem, multiple cracks upto the base	Conflict
7	<i>Acer rubrum</i>	Red Maple	60.0	6.00	P	Client	Girdling roots, scars	Conflict
8	<i>Acer saccharum</i>	Sugar Maple	40.0	4.00	VP	Client	Girdling roots, major limbs lost, leaning	Conflict
9	<i>Acer saccharum</i>	Sugar Maple	35.0	3.50	G	Private on adjoining site		PROTECT

Legend	Conflict	Remove due to conflict with construction.
G Good	Remove	Remove due to tree health or invasive status.
F Fair	PROTECT	Protect trees as per contract details and specifications.
P Poor		
VP Very Poor		

NOTE:
 THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

Owner:
 Azure Inc.
 c/o Azure Urban Developments Inc.
 463 Golden Avenue
 Ottawa, ON K2A 2E4
 Phone: 613-234-4346

No.	REVISION	DATE	BY
3.	RE-ISSUED TO ADDRESS CITY COMMENTS	DEC 13/24	RGJ
2.	ISSUED FOR PHASE 3 PRECONSULT	SEPT 09/24	RGJ
1.	ISSUED FOR PHASE 2 PRECONSULT	APR 29/24	RGJ



DESIGN TCB
 CHECKED RGJ
 DRAWN TCB
 CHECKED RGJ
 APPROVED RGJ

FOR REVIEW ONLY

Engineers, Planners & Landscape Architects
 Suite 200, 240 Michael Copland Drive
 Ottawa, Ontario, Canada K2M 1P6
 Telephone (613) 254-9643
 Facsimile (613) 254-5867
 Website www.novatech-eng.com

LOCATION
 CITY OF OTTAWA
 254 ARGYLE AVENUE

DRAWING NAME
 TREE CONSERVATION PLAN 1
 EXISTING CONDITIONS & TREE-COVER

PROJECT No. 123062
 REV 3
 DRAWING No. 123062-TCR1

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PROPOSED AND RETAINED TREE CANOPY COVER:

PROPOSED & RETAINED CANOPY COVERAGE AT MATURITY				
SIZE OF PROPOSED TREE	AVERAGE MATURE SPREAD	CANOPY COVERAGE PER TREE AT MATURITY (m2)	QUANTITY OF TREES	TOTAL CANOPY COVERAGE (m2)
Deciduous - Medium (7.5-14m tall)	6m	28	2	56
Deciduous - Large (14m+ tall)	15m	177	0	0
Coniferous	5m	20	1	20

TOTAL PROPOSED CANOPY COVERAGE (m2): 76
 1. Canopy calculations do not include Trees 2, 4, 5, and 9 because they are on the neighbouring site. Tree 3 is included because it is close to the property line of the subject site, and it will be impacted by the proposed development.

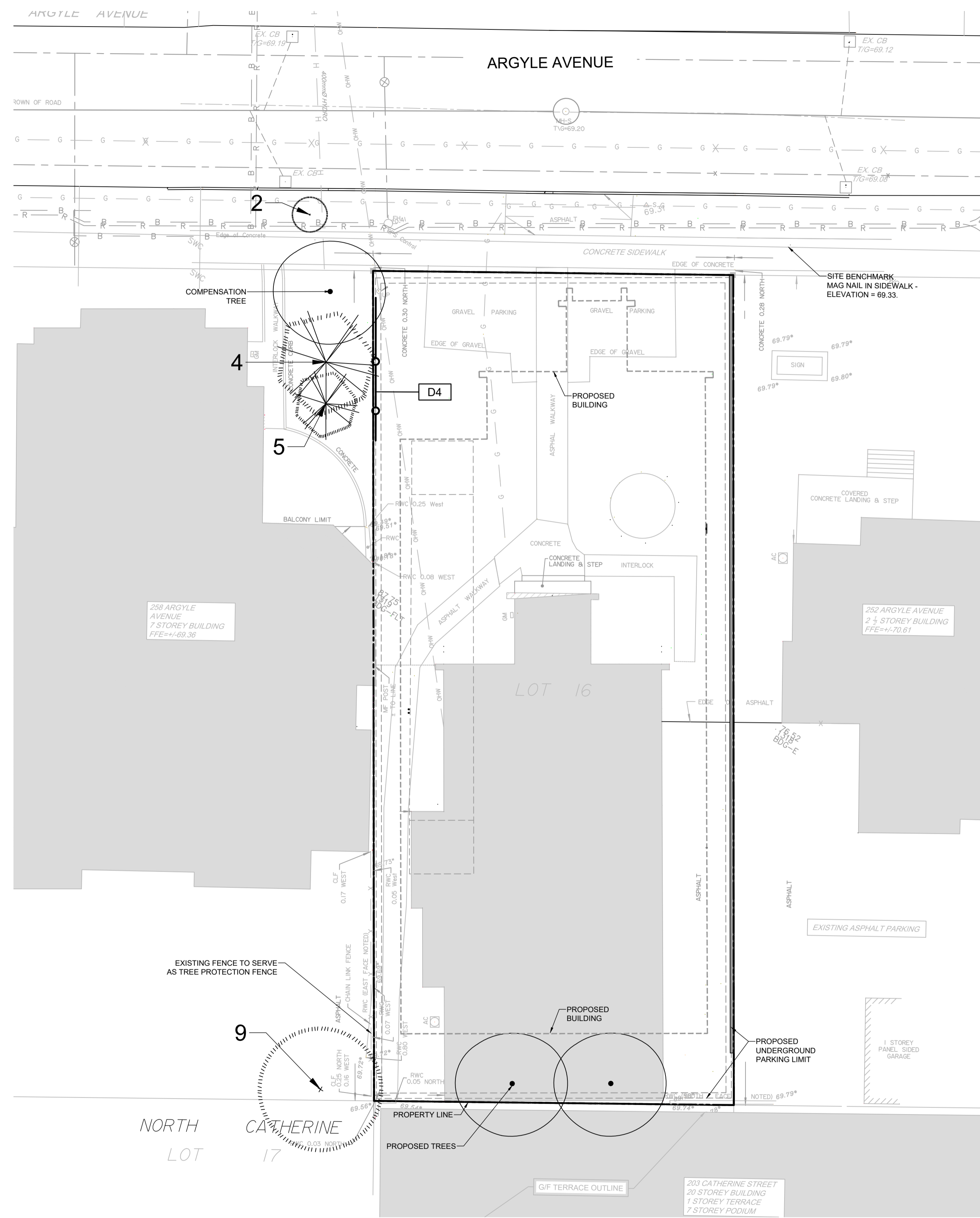


LEGEND

- 3-D1** DETAIL SHEET # NOVATECH OR CITY DETAIL NUMBER SEE LIST FOR CODE
- EXISTING TREE TO REMAIN, SYMBOL SIZE REFLECTS CRZ
- PROPOSED DECIDUOUS AND CONIFEROUS TREE
- PROPERTY LIMIT
- TEMPORARY TREE PROTECTION FENCE
- PROPOSED BUILDING
- EXISTING BUILDING

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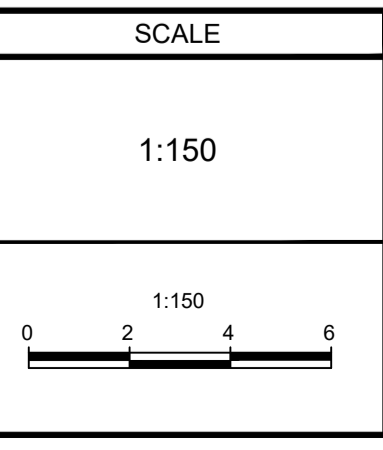
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3.	RE-ISSUED TO ADDRESS CITY COMMENTS	DEC 13/24	RGJ
2.	ISSUED FOR PHASE 3 PRECONSULT	SEPT 09/24	RGJ
1.	ISSUED FOR PHASE 2 PRECONSULT	APR 29/24	RGJ



DESIGN	TCB
CHECKED	RGJ
DRAWN	TCB
CHECKED	RGJ
APPROVED	RGJ

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LOCATION
 CITY OF OTTAWA
 254 ARGYLE AVENUE

DRAWING NAME
 TREE CONSERVATION PLAN 2
 PROPOSED DEVELOPMENT & TREE-COVER

PROJECT No. 123062
REV REV 3
DRAWING No. 123062-TCR2
PLANNING #19175

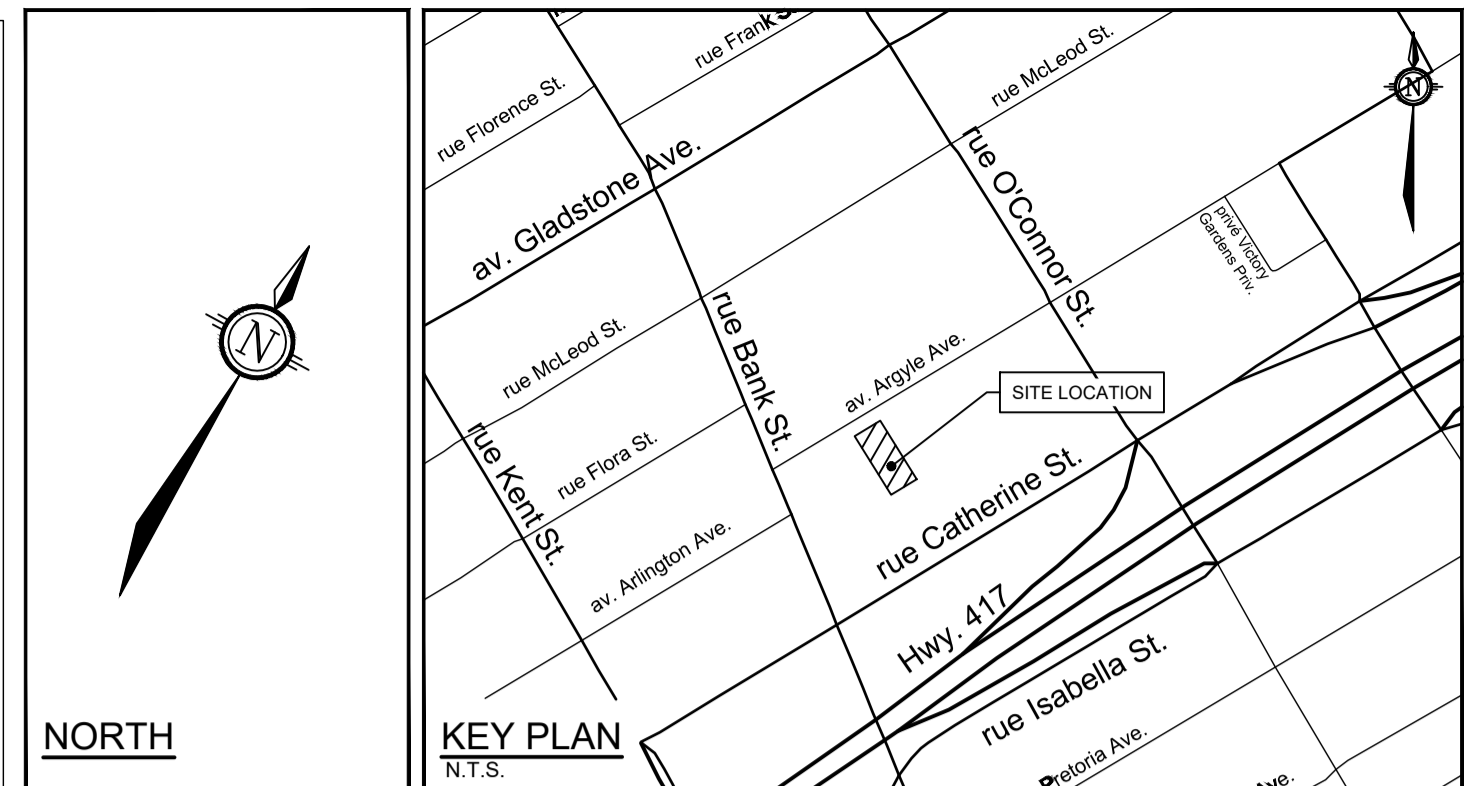
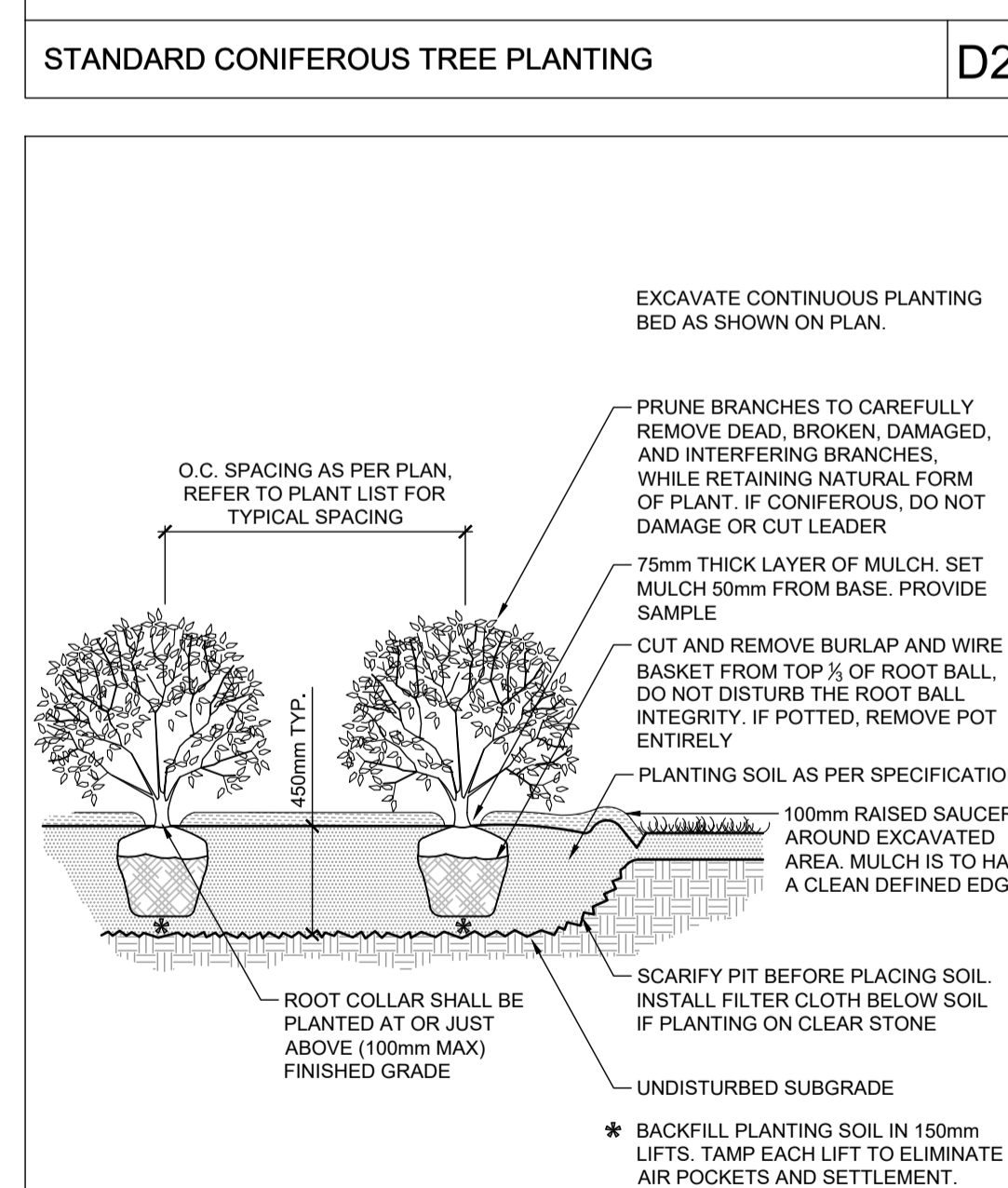
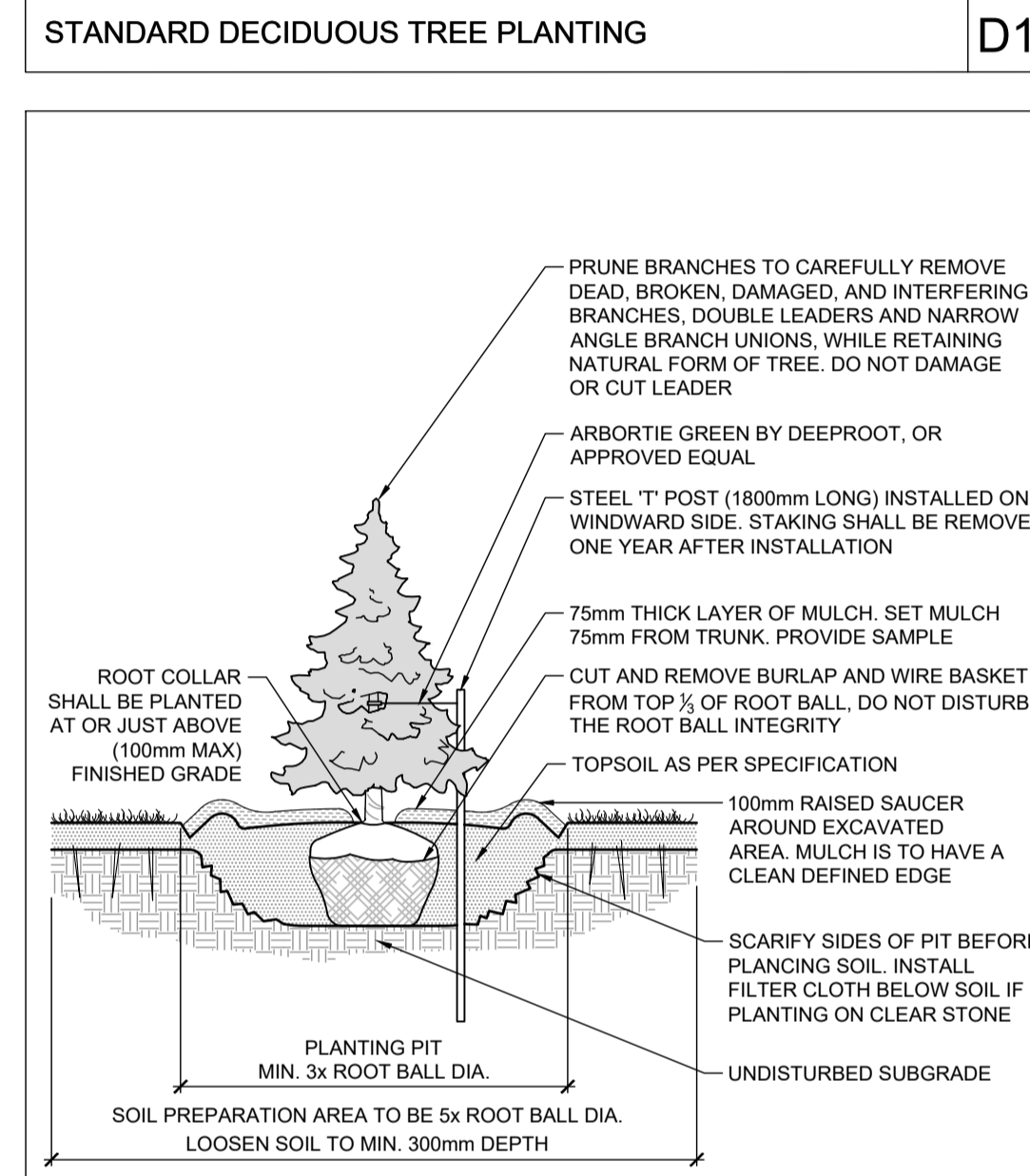
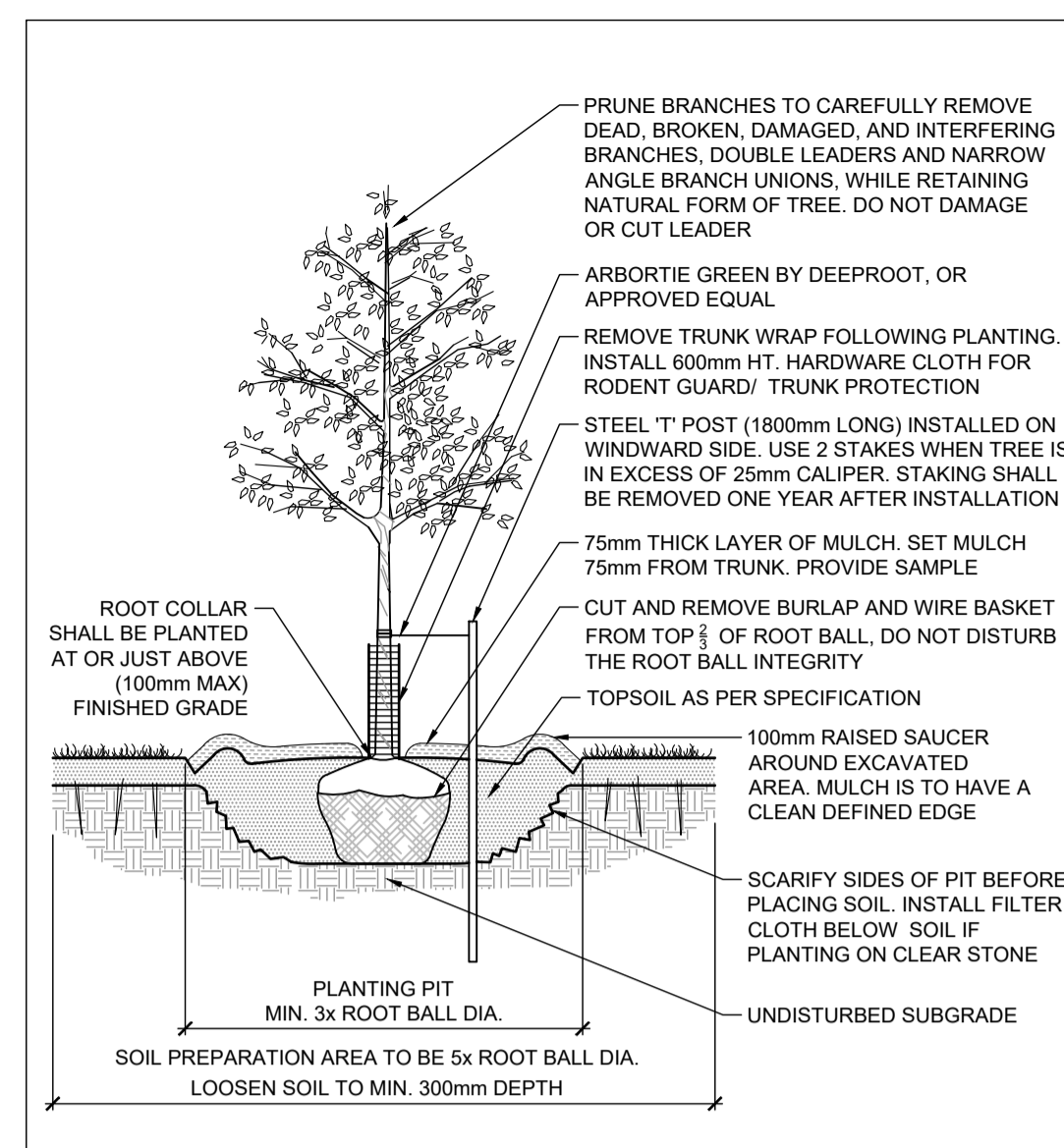
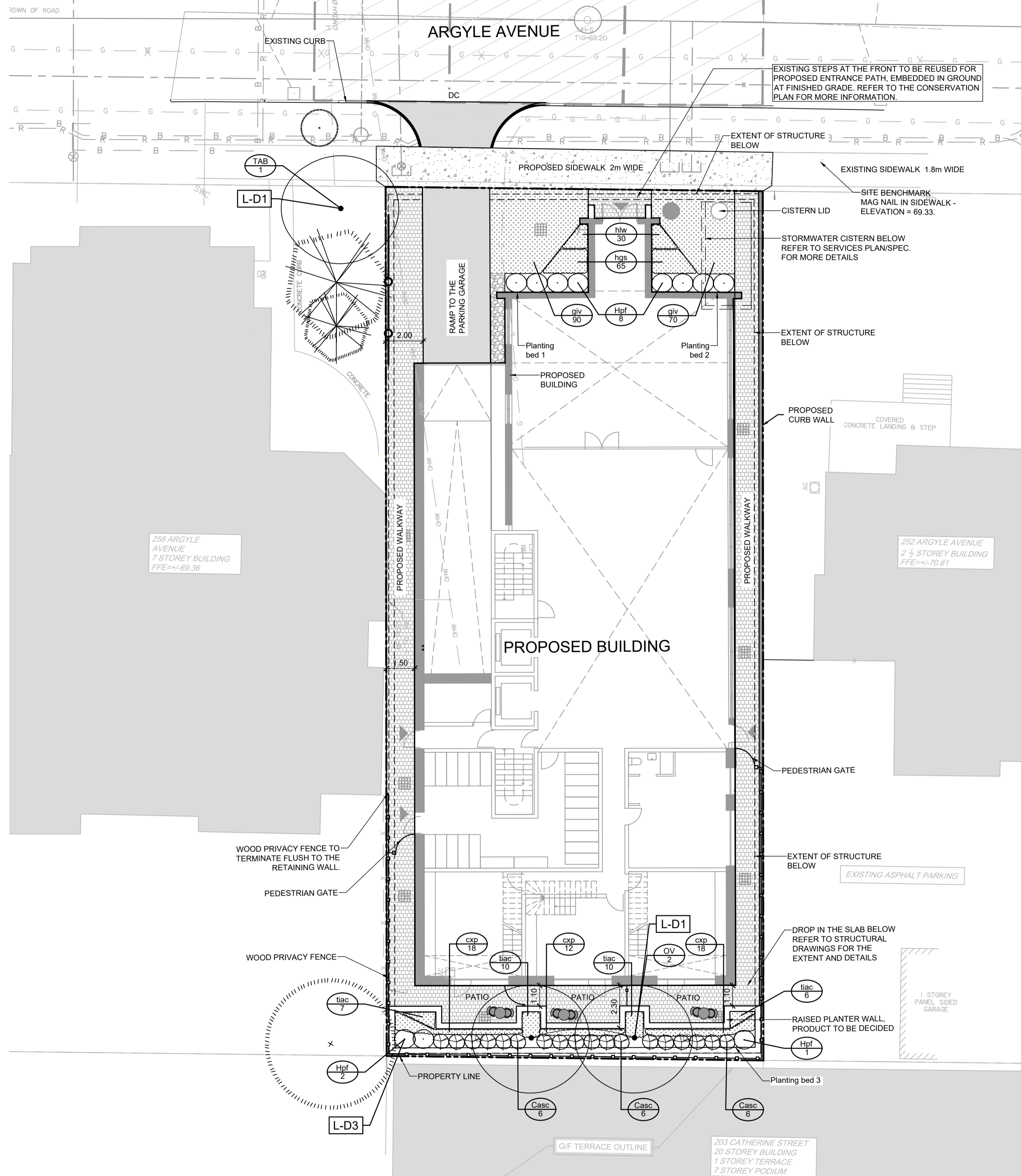
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D07-12-24-0107

SOIL CALCULATIONS

Planting bed no.	Available Soil Area (sq m)	Available Soil Volume (cu m)	No. of trees proposed				Existing trees (Large) (30m²)	Total No. of trees	Min. required Soil volume total (cu m)
			Small (20m²)	Medium (25m²)	Large (30m²)	Evergreen (25m²)			
Planting bed 1	28	13	0	0	0	0	0	NA	NA
Planting bed 2	24	11	0	0	0	0	0	NA	NA
Planting bed 3	25	30.00	0	2	0	0	2	30.00	

Note 1: For all planting beds proposed, the available soil depth is considered to be 0.446m over the underground parking, per architectural elevations.
Note 2: No trees proposed in the planting bed#1 and #2, as keeping the view open to the church is a priority.



LEGEND

- 3-D1** DETAIL SHEET # NOVATECH OR CITY
EG. L1, L2, ETC. DETAIL NUMBER SEE LIST FOR CODE
- PROPERTY LIMIT
- PROPOSED BUILDING
- WOOD PRIVACY FENCE 1.8m HT
- EXISTING CONCRETE SIDEWALK
- PROPOSED PAVERS
- RIVER STONE
- SOD
- PERENNIALS AND GRASSES
- PROPOSED DECIDUOUS TREE
- EXISTING TREE TO REMAIN
- PROPOSED SHRUBS
- KEY # SPECIES (SEE PLANT LIST) QUANTITY

CITY DETAILS

Related details from City of Ottawa Standard Tender Documents Volume No. 2 Standard Detail Drawings.

SC4. Typical Concrete Sidewalk in Boulevard

SC5. Sidewalk Construction Joints

NOVATECH DETAILS

Found on Sheet L

D1. Standard Deciduous Tree Planting

D2. Standard Coniferous Tree Planting

D3. Shrub and Perennial Planting

Found on Sheet TCR-1

D4. Tree Protection Fence

GEOTECHNICAL

1. GEOTECHNICAL REPORT PG7026-1 DATED APRIL 1, 2024, PREPARED BY PETERSON GROUP, INDICATES THAT THERE IS SENSITIVE MARINE CLAY SOIL PRESENT. BUT CONSTRAINTS ARE NOT NECESSARY WITH THE SITE PROPOSED TO BE OCCUPIED BY A UNDERGROUND PARKING GARAGE.

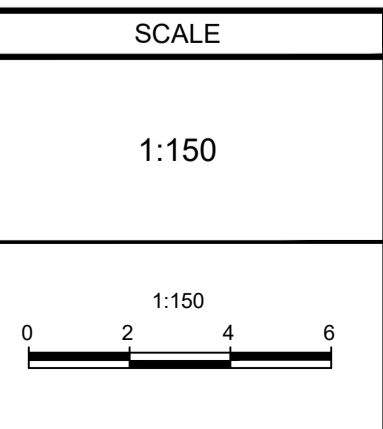
PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING
Deciduous Trees						
TAB 1	1	<i>Tilia americana</i> 'Boulevard'	Boulevard Linden	50mm Cal	WB	As Show n
OV 2	2	<i>Ostrya virginiana</i>	Hop-hornbeam, Iron wood	50mm Cal	WB	As Show n
Deciduous Shrubs						
Casc 18	18	<i>Clethra alnifolia</i> 'Sixteen Candles'	Sixteen Candles Summersweet	40cm Ht	PT	60cm O.C
Hpf 11	11	<i>Hydrangea paniculata</i> 'Candelabra'	Candelabra Hydrangea	60cm Ht	PT	100cm O.C
Perennials						
gfv 160	160	<i>Geranium macrorrhizum</i> 'Ingwersens Variety'	Ingwersens Variety Bigroot Cranesbill	1g	PT	50cm O.C
hgs 65	65	<i>Hemerocallis</i> 'Gentle Shepherd'	Gentle Shepherd Daylily	1g	PT	30cm O.C
hlw 30	30	<i>Hemerocallis</i> 'Little Wine Cup'	Little Wine Cup Daylily	1g	PT	30cm O.C
tac 150	150	<i>Tiarella cordifolia</i>	Foamflower	1g	PT	40cm O.C
Grasses						
cxp 48	48	<i>Carex pensylvanica</i>	Pennsylvania Sedge	1g	PT	40cm O.C

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2.	ISSUED FOR PHASE 3 PRECONSULT	SEPT 09/24	RGJ
1.	ISSUED FOR PHASE 2 PRECONSULT	APR 29/24	RGJ



DESIGN TCB
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LOCATION
 CITY OF OTTAWA
 254 ARGYLE AVENUE

DRAWING NAME
LANDSCAPE PLAN

PROJECT No. 123062
 REV 3
 DRAWING No. 123062-L

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