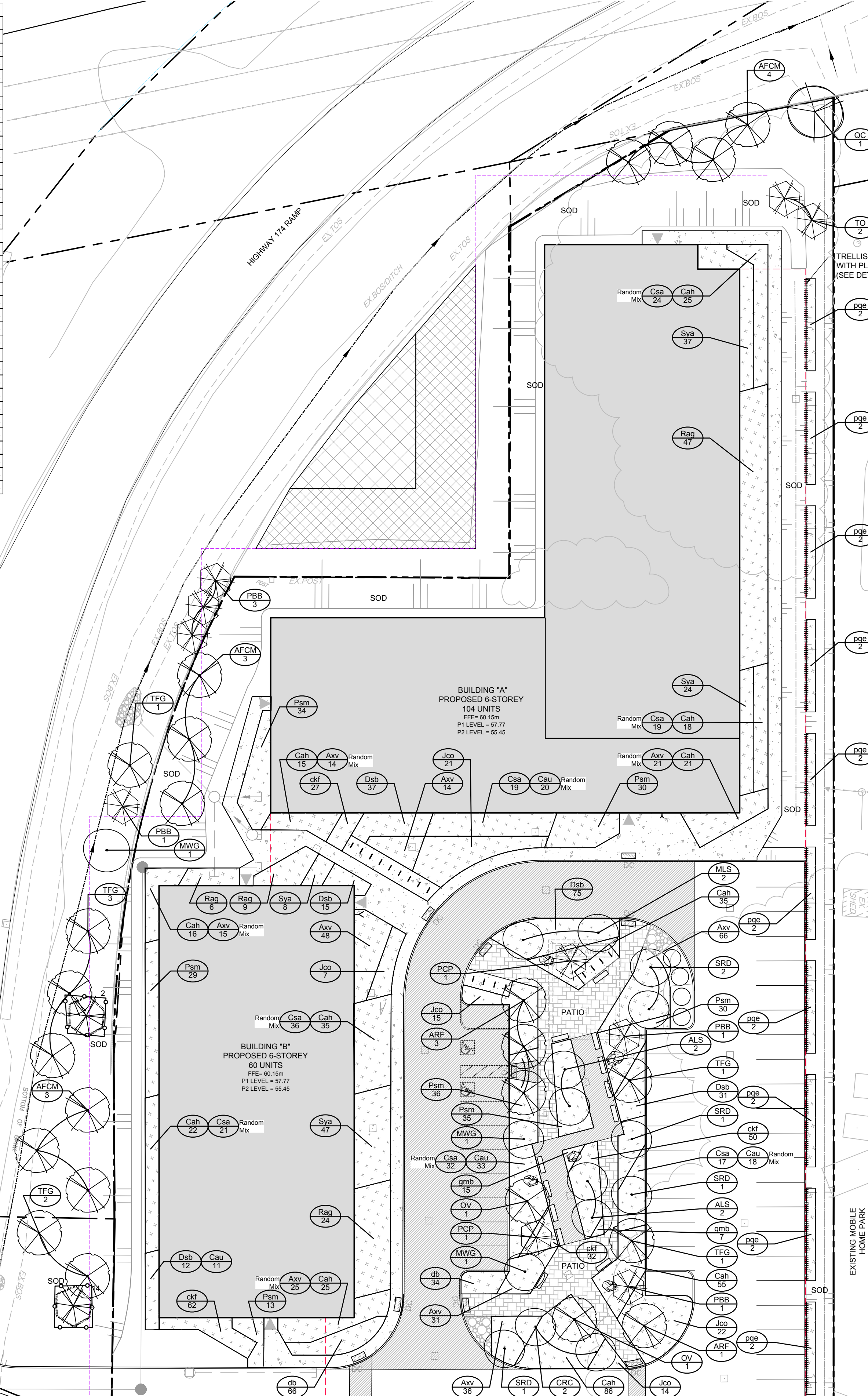


QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING
Reforestation - 20m HT MAX- Plant List					
Coniferous Trees					
10%	3	<i>Abies balsamea</i>	Balsam Fir	0.60m H	PT 2.0m O.C.
5%	2	<i>Larix laricina</i>	Tamarack	0.60m H	PT 2.0m O.C.
10%	3	<i>Pinus banksiana</i>	Jack Pine	0.60m H	PT 2.0m O.C.
Deciduous Trees					
5%	2	<i>Acer rubrum</i>	Red Maple	1.20m H	PT 2.0m O.C.
5%	2	<i>Celtis occidentalis</i>	Hackberry	1.20m H	PT 2.0m O.C.
10%	3	<i>Amelanchier canadensis (Single stem)</i>	Shadblow Serviceberry	1.20m H	PT 2.0m O.C.
10%	3	<i>Sorbus decora</i>	Showy Mountain-Ash	0.60m H	PT 2.0m O.C.
5%	2	<i>Populus tremuloides</i>	Trembling Aspen	1.20m H	PT 2.0m O.C.
Deciduous Shrubs					
10%	3	<i>Aronia melanocarpa</i>	Black Chokeberry	0.60m H	PT 2.0m O.C.
10%	3	<i>Rosa palustris</i>	Sw amp Rose	0.60m H	PT 2.0m O.C.
10%	3	<i>Rhus aromatica</i>	Fragrant Sumac	0.60m H	PT 2.0m O.C.
10%	3	<i>Spiraea alba</i>	White Meadow sweet	0.60m H	PT 2.0m O.C.
Reforestation - 14m HT MAX- Plant List					
Coniferous Trees					
5%	4	<i>Thuja occidentalis</i>	Eastern White Cedar	0.60m H	PT 2.0m O.C.
Deciduous Trees					
5%	4	<i>Cladrasis kentuckea (formerly 'Tutea')</i>	Yellow wood	1.20m H	PT 2.0m O.C.
10%	8	<i>Crataegus mollis</i>	Downy Hawthorn	1.20m H	PT 2.0m O.C.
10%	8	<i>Amelanchier canadensis (Single stem)</i>	Shadblow Serviceberry	1.20m H	PT 2.0m O.C.
10%	8	<i>Sorbus decora</i>	Showy Mountain-Ash	0.60m H	PT 2.0m O.C.
Deciduous Shrubs					
5%	4	<i>Aronia melanocarpa</i>	Black Chokeberry	0.60m H	PT 2.0m O.C.
5%	4	<i>Comptonia peregrina</i>	Sweet Fern	0.60m H	PT 2.0m O.C.
5%	4	<i>Clethra alnifolia</i>	Summersweet	0.60m H	PT 2.0m O.C.
5%	4	<i>Cornus sericea</i>	Red Osier Dogwood	0.60m H	PT 2.0m O.C.
10%	8	<i>Rosa palustris</i>	Sw amp Rose	0.60m H	PT 2.0m O.C.
5%	4	<i>Rhus aromatica</i>	Fragrant Sumac	0.60m H	PT 2.0m O.C.
5%	4	<i>Rhus typhina</i>	Staghorn Sumac	0.60m H	PT 2.0m O.C.
5%	4	<i>Spiraea alba</i>	White Meadow sweet	0.60m H	PT 2.0m O.C.
10%	8	<i>Rubus odoratus</i>	Flowering Raspberry	0.60m H	PT 2.0m O.C.
5%	4	<i>Symphoricarpos alba</i>	Snow berry	0.60m H	PT 2.0m O.C.

QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING
Reforestation - 20m HT MAX- Plant List					
Coniferous Trees					
10%	3	<i>Abies balsamea</i>	Balsam Fir	0.60m H	PT 2.0m O.C.
5%	2	<i>Larix laricina</i>	Tamarack	0.60m H	PT 2.0m O.C.
10%	3	<i>Pinus banksiana</i>	Jack Pine	0.60m H	PT 2.0m O.C.
Deciduous Trees					
5%	2	<i>Acer rubrum</i>	Red Maple	1.20m H	PT 2.0m O.C.
5%	2	<i>Celtis occidentalis</i>	Hackberry	1.20m H	PT 2.0m O.C.
10%	3	<i>Amelanchier canadensis (Single stem)</i>	Shadblow Serviceberry	1.20m H	PT 2.0m O.C.
10%	3	<i>Sorbus decora</i>	Showy Mountain-Ash	0.60m H	PT 2.0m O.C.
5%	2	<i>Populus tremuloides</i>	Trembling Aspen	1.20m H	PT 2.0m O.C.
Deciduous Shrubs					
10%	3	<i>Aronia melanocarpa</i>	Black Chokeberry	0.60m H	PT 2.0m O.C.
10%	3	<i>Rosa palustris</i>	Sw amp Rose	0.60m H	PT 2.0m O.C.
10%	3	<i>Rhus aromatica</i>	Fragrant Sumac	0.60m H	PT 2.0m O.C.
10%	3	<i>Spiraea alba</i>	White Meadow sweet	0.60m H	PT 2.0m O.C.
Reforestation - 14m HT MAX- Plant List					
Coniferous Trees					
5%	4	<i>Thuja occidentalis</i>	Eastern White Cedar	0.60m H	PT 2.0m O.C.
Deciduous Trees					
5%	4	<i>Cladrasis kentuckea (formerly 'Tutea')</i>	Yellow wood	1.20m H	PT 2.0m O.C.
10%	8	<i>Crataegus mollis</i>	Downy Hawthorn	1.20m H	PT 2.0m O.C.
10%	8	<i>Amelanchier canadensis (Single stem)</i>	Shadblow Serviceberry	1.20m H	PT 2.0m O.C.
10%	8	<i>Sorbus decora</i>	Showy Mountain-Ash	0.60m H	PT 2.0m O.C.
Deciduous Shrubs					
5%	4	<i>Aronia melanocarpa</i>	Black Chokeberry	0.60m H	PT 2.0m O.C.
5%	4	<i>Comptonia peregrina</i>	Sweet Fern	0.60m H	PT 2.0m O.C.
5%	4	<i>Clethra alnifolia</i>	Summersweet	0.60m H	PT 2.0m O.C.
5%	4	<i>Cornus sericea</i>	Red Osier Dogwood	0.60m H	PT 2.0m O.C.
10%	8	<i>Rosa palustris</i>	Sw amp Rose	0.60m H	PT 2.0m O.C.
5%	4	<i>Rhus aromatica</i>	Fragrant Sumac	0.60m H	PT 2.0m O.C.
5%	4	<i>Rhus typhina</i>	Staghorn Sumac	0.60m H	PT 2.0m O.C.
5%	4	<i>Spiraea alba</i>	White Meadow sweet	0.60m H	PT 2.0m O.C.
10%	8	<i>Rubus odoratus</i>	Flowering Raspberry	0.60m H	PT 2.0m O.C.
5%	4	<i>Symphoricarpos alba</i>	Snow berry	0.60m H	PT 2.0m O.C.



SEE DRAWING 113020-L2 FOR CONTINUATION OF SITE

GENERAL

- Read and interpret this drawing/drawing set in conjunction with all the contract details and specifications, including related civil, utility, structural, architectural, mechanical, electrical, environmental, geotechnical, and survey information.
- The Contractor is to determine the exact location, size, material, and elevation of all existing utilities prior to commencing construction. Protect and assume responsibility for all existing utilities regardless of being shown on the drawings.
- It is essential to use the plans and details in conjunction with the specifications and notes.
- Do not scale drawings. Work to dimensions only.
- Protect all existing and retained vegetation for the duration of construction according to the contract details and specifications.
- Reinstate all areas and items damaged or disturbed, beyond the Limit of Work, because of construction activities, including but not limited to construction staging areas, haul roads, stockpiles, etc. to the satisfaction of the Consultant. Unless otherwise noted, Contractor is to reinstate all areas to pre-construction condition or better to the satisfaction of the Contract Administrator.

PLANTING

- Plant material to be No. 1 Grade and is to comply with Canadian Standards for Nursery Stock (latest edition) published by the Canadian Nursery Landscape Association.
- Use structurally sound plant material with strong fibrous root system free of disease, defects, and injuries. Use trees with straight trunks, well and characteristically anchored for species. Obtain approval from consultant of plant material at source prior to digging. All trees and shrubs to be container grown, potted, W/B or B/B, as indicated on Plant List. Bare root plants are only acceptable for certain species and as approved by the Landscape Architect.
- Plant material substitutions are not permitted without the written approval from the Consultant, with 48 hours notice, prior to shipping plant material.
- Plant locations are schematic / approximate only. Contractor is to stake out locations on site for approval by the Landscape Architect prior to installation.
- The illustrated number of plants shown in the Planting Plan supersedes the estimated number in the Plant List. Contractor to report any discrepancies to the Landscape Architect prior to installation. Contractor will assume full responsibility if the Landscape Architect is not notified.
- Ensure trees are thoroughly watered following planting. Monitor material and ensure adequate moisture until acceptance.
- In heavy clay or poorly drained soils, set root ball with root collar 75-100mm higher than finished grade.
- Approved topsoil depths are as follows:
 - Plant Beds - 450mm continuous depth. Applies to shrubs, perennials, vines, and groundcovers.
 - Sod Seed Areas - 100mm depth.
 - Reforestation - 300mm depth.
- Sod to be No. 1 Kentucky Bluegrass Sod grown from minimum mixture of 3 Kentucky Bluegrass cultivars. Quality and source are to comply with Canadian Standards for Nursery Stock, Section 17, (latest edition) published by the Canadian Nursery Landscape Nursery Landscape Association.
- Apply the following mineral fertilizer unless soil tests show other requirements:
 - Plant Beds - (8-32-16), i.e. 8% Nitrogen, 32% Phosphorus, 16% Potash per manufacturer specifications.
 - Sod Areas - (8-32-16), i.e. 8% Nitrogen, 32% Phosphorus, 16% Potash at a rate of 350kg/ha.
- Where applicable, for any plant areas with a mix of species/cultivars notes, Contractor is to cluster like plants in groups of 3-5 and evenly distribute these in the noted area.

EXISTING CONDITIONS/ SITE PREPARATION

- Storage of soil stockpile, materials, vehicles, and equipment are not permitted within the municipal road allowance nor within 15m of residential lots.
- Contractor to maintain all temporary construction and sediment control fence to the satisfaction of Contract Administrator for the duration of construction. Contractor is responsible to remove the fence upon completion.
- Contractor is to supply, install, and maintain fabric filter protection on and around all existing manholes, catch basins, and utilities. Contractor is responsible to ensure no sediment trespasses neighbouring sites and/or storm system.
- Contractor is to ensure that existing residential chain link fence is always protected during construction. If fence is damaged by construction activity, Contractor is to reinstate/repair all fence to pre-construction condition or better to the satisfaction of the Contract Administrator at Contractor expense.
- All parties are to review and document the condition of curbs, sidewalks, street trees and utilities located within the right-of-way prior to the start of construction. The Contractor is to rectify any damages caused by construction at the Contractor expense.
- Costs associated with the above notes, where such costs are not identified specifically on the form of tender (bid form) is deemed included in bid item A1.

PLANT LIST

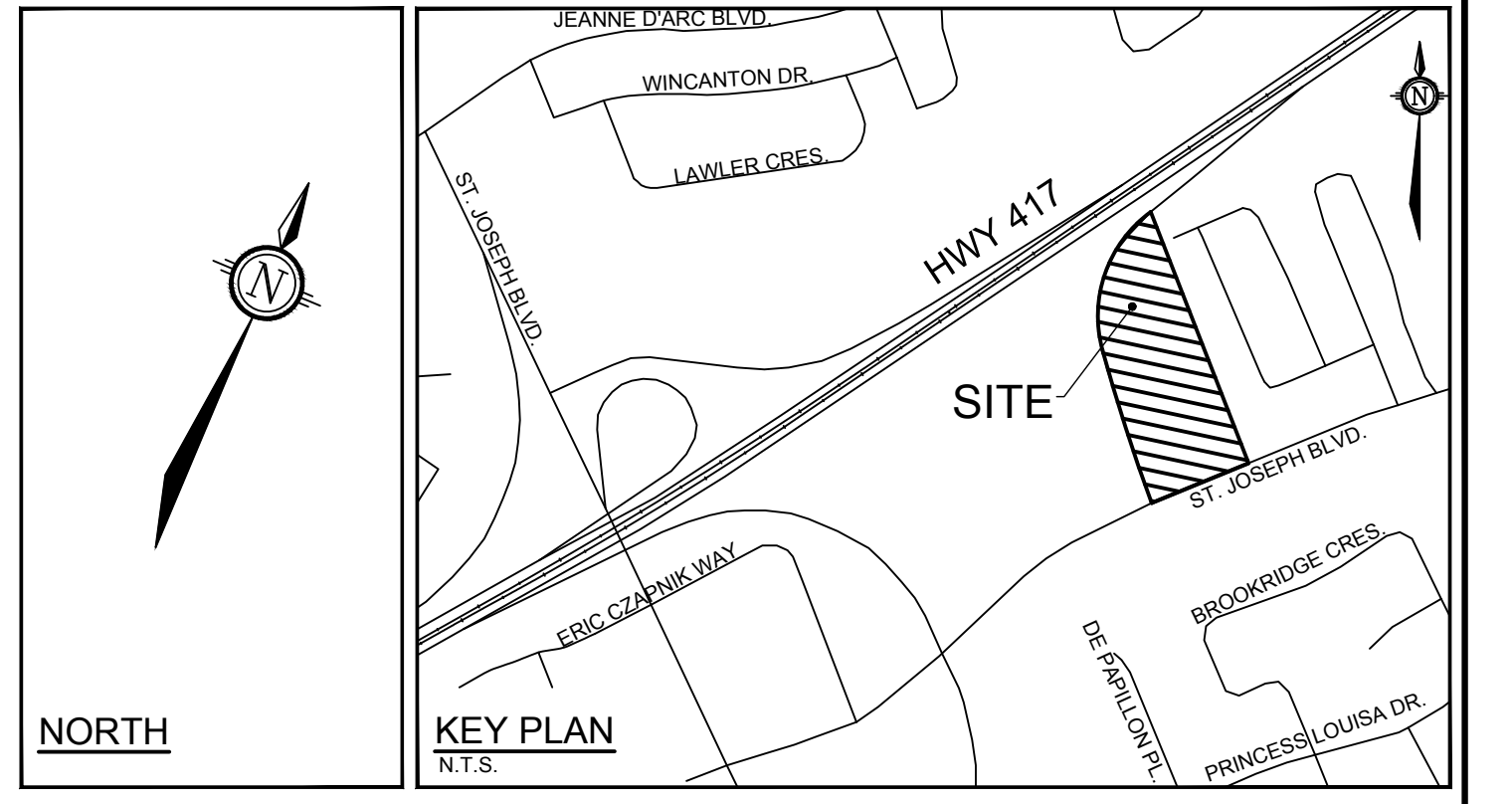
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING	Native Status
Coniferous Trees							
FB	6	<i>Picea pungens 'Baby Blue'</i>	Baby Blue Colorado Spruce	200cm H	WB	As Show n	Native Cultivar
PCP	2	<i>Pinus cembra 'Algonquin Pillar'</i>	Algonquin Pillar Swiss Stone Pine	200cm H	BBC	As Show n	Exotic
TO	2	<i>Thuja occidentalis</i>	Eastern White Cedar	200cm H	WB	As Show n	Native
Deciduous Trees							
ALS	4	<i>Amelanchier laevis 'Spring Flurry'</i>	Spring Flurry Serviceberry	50m Cal	WB	As Show n	Native
AFCM	10	<i>Acer x freemanni 'Celtaz'</i>	Celebration Maple	50mm Cal	WB	As Show n	Native Cultivar
ARF	4	<i>Acer rubrum 'Autumn Flame'</i>	Autumn Flame Red Maple	50mm Cal	WB	As Show n	Native Cultivar
CR	2	<i>Crataegus crus-galli 'Irenis'</i>	Thornless Cockspur Hawthorn	50mm Cal	WB	As Show n	Native Cultivar
MMW	3	<i>Malus 'Winter Gold'</i>	Winter Gold Crabapple	50mm Cal	WB	As Show n	Native Cultivar
OV	2	<i>Ostrya virginiana</i>	Hop-hornbeam, Ironwood	50mm Cal	WB	As Show n	Native
Q	1	<i>Quercus coccinea</i>	Scarlet Oak	50mm Cal	WB	As Show n	Native
SD	5	<i>Sorbus decora</i>	Showy Mountain-Ash	50mm Cal	WB	As Show n	Native
TFC	8	<i>Tilia flavescens 'Glenleven'</i>	Glenleven Linden	50mm Cal	WB	As Show n	Native Cultivar
Coniferous Shrubs							
Jco	79	<i>Luniperus horizontalis 'Plumosa Compacta'</i>	Compact Andorra Juniper	40cm Spr	PT	150cm O.C.	Native Cultivar
Pm	207	<i>Pinus mugo 'Stovmound'</i>	Stov mound Mugo Pine	40cm Spr	PT	100cm O.C.	Native Cultivar

PRODUCT INFORMATION

- Install products as per manufacturer specifications. Shop drawings required.
- PRECAST RETAINING WALL**
Refer to grading plan for wall heights.
 - Melville Tandem Wall by Permacon
Pattern: Linear, vertical XX degrees
Colour: Range Scandinia Grey
 - Melville Plus 90 Capping Unit by Permacon
Size: 305mm x 600mm x 90mm
Colour: Range Shaded Grey
 OR
 - Melville Plus Step Unit by Permacon
Size: 400mm x 600mm x 60mm
Colour: Range Shaded Grey
- PAVERS**
 - Industria 300 Series by Techo-Bloc
Location: See Legend
Size: 100mm x 300mm x 100mm
Pattern: Linear
Colour: Shale Grey
 - Brandon Garden Edging Stone by Techo-Bloc
Location: Separating riverstone maintenance edge and planting beds
Size: All
Pattern: Modular laying pattern 01
Colour: Greyed Nickel
- FENCE**
 - Iron Eagle I Aluminum Series - Style 2115 by Iron Eagle Industries
Panel Height: 1524mm
Colour: Black
- SITE FURNITURE**
Fasten all site furnishing to surface with stainless steel anti-vandal anchors.
 - 720 Backless Bench by Maglin
Product Number: MBE-0720-0005
Size: 70" Length
Frame colour: Gunmetal
Slats: Ipe
 - 720 Backed Bench by Maglin
Product Number: MBE-0720-00041
Size: 70.5" Length
Frame colour: Gunmetal
Slats: Ipe
Options: Backed, two end arms
 - Iconic Bike Rack by Maglin
Product Number: MBR-2300-00001
Fixture: Surface Mount
Frame Colour: Black

GRADING

- Contractor is to verify accuracy of existing topography and survey and report any discrepancies to the Contract Administrator. Commencement of grading is to constitute acceptance of site conditions; no claims for extras will be entertained thereafter.
- Strip topsoil, organic matter, or deleterious material from all areas of the site designated for hard landscaping, or the construction of structures. Strip topsoil to its full depth, exercising caution not to mix topsoil with subsoil.
- Provide drainage as indicated in grading plan. Round all tops and toes of slopes, smoothly. Compact all areas to 95% standard proctor density unless otherwise noted.
- Contractor to excavate to accommodate hard surface and ensure proper depth of excavation as specified on related drawings, contract details and specifications.
- Match existing grades at limit of work.
- Ensure positive surface drainage of all areas within the limit of work, whether indicated or not, and prevent ponding. Refer to geotechnical recommendations (if available) prepared by Geotechnical Engineer for subsurface conditions and construction recommendations. Claims for conditions that could have been ascertained by review of geotechnical report will not be considered.
- The Geotechnical Engineer is to inspect compacted subgrade prior to placement of granular material.
- Sub-excavate and replace any soft areas evident from compaction with suitable material that is frost compatible with the existing soils as recommended by the Geotechnical Engineer.
- Remove from site all excess excavated material unless instructed otherwise by Consultant.
- Slopes, unless otherwise noted:
 - Walkways - maximum 12:1 slopes (do not exceed 2% cross slopes).
 - Asphalt and concrete surfaces - minimum 1:0% slope; maximum 5% slope.
 - Sod/Seed Areas and Plant Beds - minimum 2% slope; maximum 3% slope.
 - Swales - Flat-bottomed per Contract drawings and specification, with maximum side slopes of 3:1 and a minimum slope of 8:1.
- New surfaces are to have smooth, safe, and seamless transition of materials, where construction of proposed surfaces adjoins existing materials. This is applicable for all surfaces soft and hard.



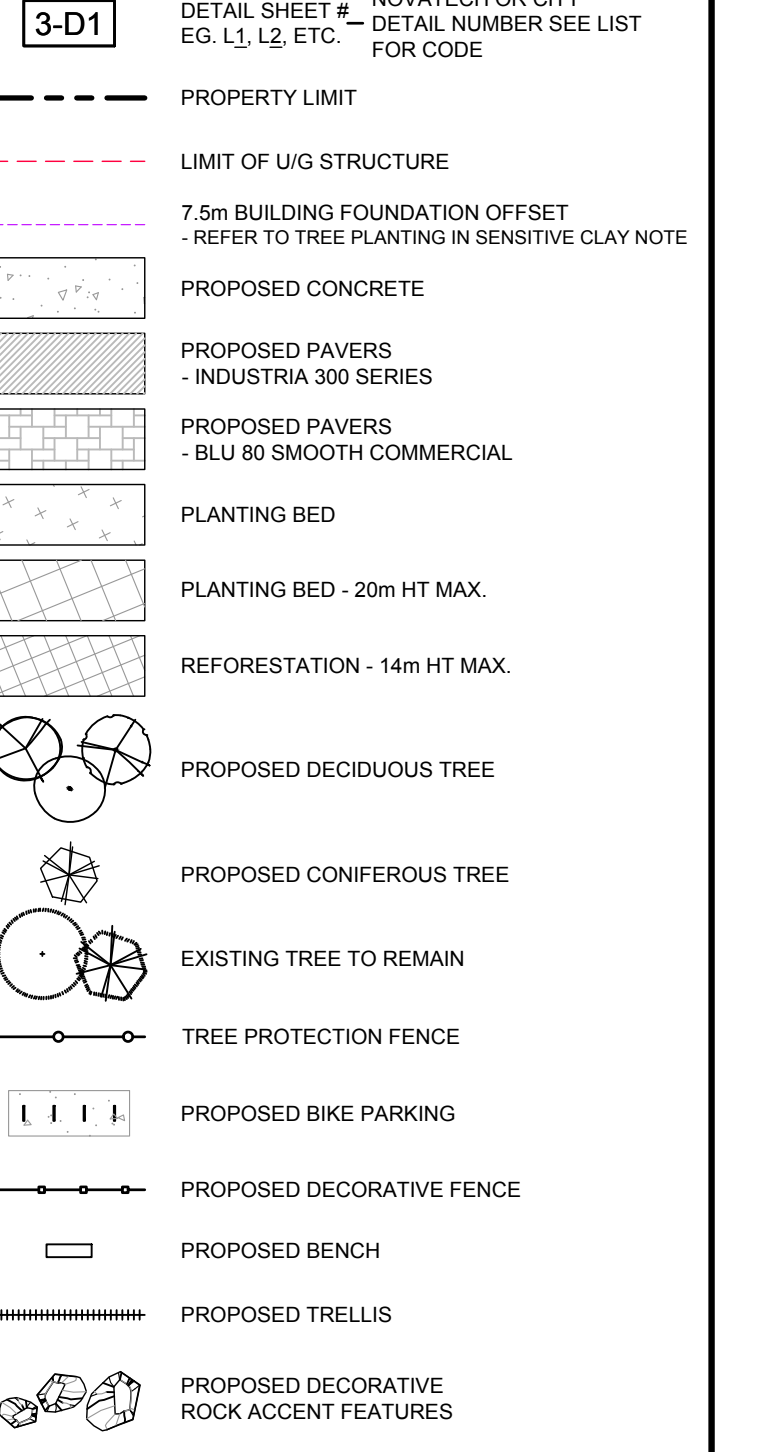
TREE PROTECTION

- 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 its 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 x 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 not 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).

TREE PLANTING IN SENSITIVE CLAY

- The landscape plans have been developed in accordance with the Geotechnical Report Geotechnical Investigation, Nathan F. S. Christie, November 15, 2019, which includes the lettermemo Sok Kim, January 3, 2023, and map Test Hole Location Plan, November 2019 that confirms the categories and locations of clay soils.
- The following City of Ottawa clay soils guideline applies: Guidelines for Tree Planting in Sensitive Marine Clay Soils (2017).
- The soil volumes provided are sufficient for a reasonable chance of tree survival. Unless otherwise noted, all new trees on City property meet the minimum soil volume requirements of the following, based on a depth of 1.5m below finished grade, and subtracting the volume of utility trenches.
 - Small tree (mature height up to 7.5m) - 25m³ minimum soil volume provided.
 - Medium tree (mature height 7.5-14m) - 30m³ minimum soil volume provided.

LEGEND



NOVATECH DETAILS

Found on Sheet L3.
 D1. Standard Deciduous Tree Planting
 D2. Standard Coniferous Tree Planting
 D3. Shrub and Perennial Planting
 D4. Tree Protection Fence
 D5. Reforestation
 D6. Wood Screen Detail
 D7. Bench
 D8. Trellis
 D9. Roof Planting
 D10. Roof Planting
 D11. Roof Paving

TREE QUANTITIES AND OWNERSHIP

TOTAL QTY OF PROPOSED CALIPER TREES: 104
 PROPOSED TREES - CITY OF OTTAWA OWNERSHIP: L1 - 13
 PROPOSED TREES - PRIVATE OWNERSHIP: L1 - 36
 TOTAL QTY OF PROPOSED CALIPER TREES - L1 - 49

TOTAL QTY OF PROPOSED REFORESTATION TREES - CITY OF OTTAWA OWNERSHIP: 52

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.

SURVEYOR: BRIAN J WEBSTER - STANTEC	LANDSCAPE ARCHITECT: RYAN JAMES - NOVATECH
CIVIL ENGINEER: FRANCOIS THAUVETTE - NOVATECH	ARCHITECT: NICOLAS CLOUTIER - LEMAY MICHAUD
MECHANICAL ENGINEER: MEIL CHANTRAND - COSMEL	URBAN PLANNERS: TYLER YAKICHUK - FOTENN

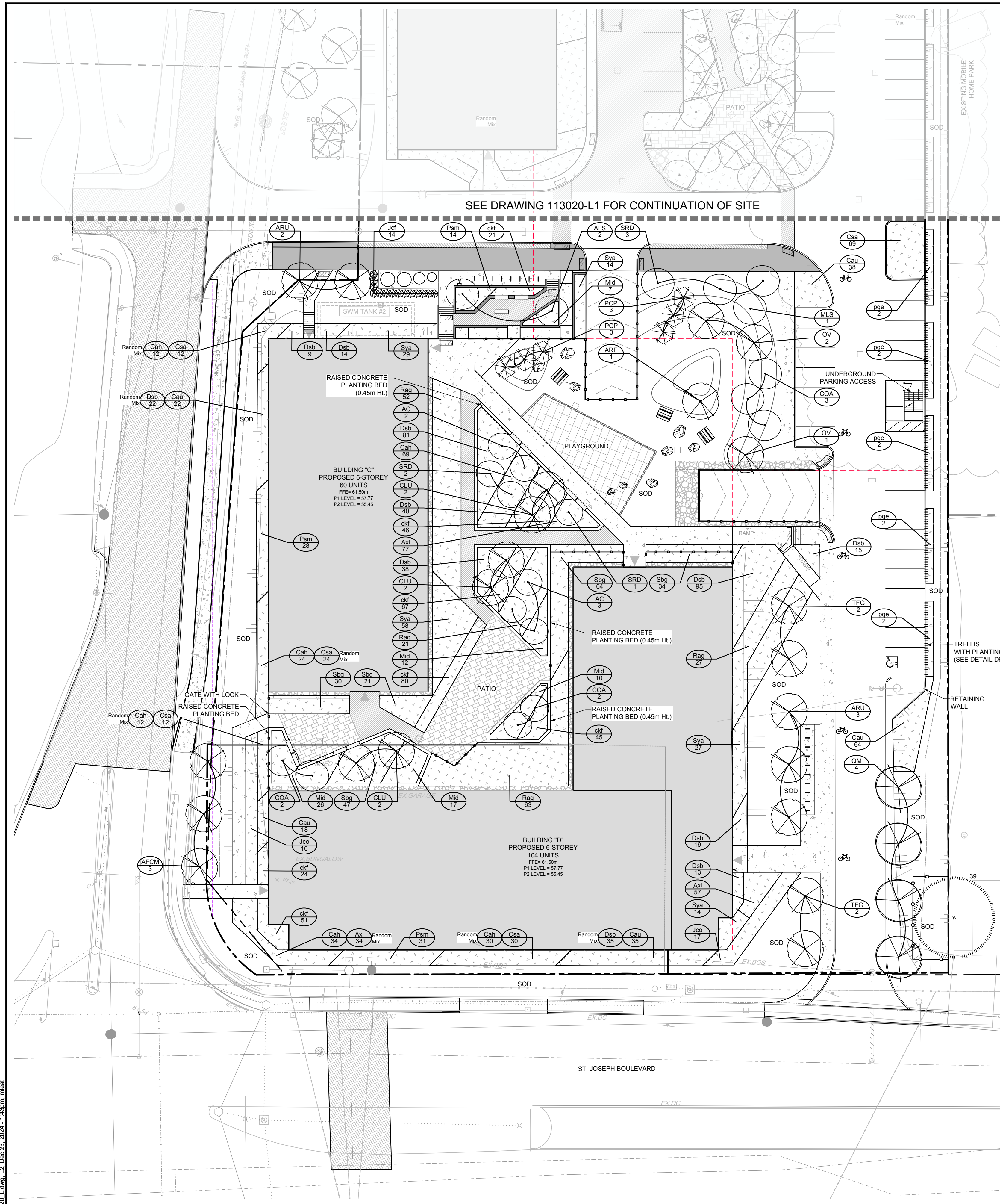
OWNER INFORMATION			
8417709 CANADA INC.			
430 boulevard de l'hôpital, Suite 310			
Gatineau, QC J8V 1T7			
NAME: PAUL-ANDRÉ CHARBONNEAU			
PHONE: (819) 955-8032			
EMAIL: paul-andre@chartro.ca			

No.	REVISION	DATE	BY
4.	RE-ISSUED FOR SPA	DEC 24/24	RJ
3.	ISSUED FOR SPA	JUL 19/24	RJ
2.	ISSUED FOR COORDINATION	MAY 30/24	RJ
1.	ISSUED FOR COORDINATION	FEB 16/24	RJ

DESIGN	SCALE	FOR REVIEW ONLY
KW	1:300	
SC/RJ		
ML/MT		
SC/KW		
RJ		

NOVATECH		LOCATION
Engineers, Planners & Landscape Architects		CITY OF OTTAWA
Suite 200, 240 Michael Cowpland Drive		CHARTO LANDS -3459 & 3479 ST. JOSEPH BOULEVARD
Ottawa, Ontario, Canada K2M 1P6		DRAWING NAME
Telephone (613) 254-9643	Facsimile (613) 254-9687	PROJECT No.
Website www.novatech-eng.com		113020-00
LANDSCAPE PLAN		REV #
		4
		DRAWING No.
		113020-L1

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Planting bed no.	Available Soil Area (sq m)	Available Soil Volume (cu m)	No. of trees proposed				Existing trees	Total No. of trees	Min. required Soil volume total (cu m)
			Small Column (25m ²)	Medium (30m ²)	Large (35m ²)	Evergreen (30m ²)			
Planting bed 1	4493	6,739.50	1	16	1	6	2	26	780.00
Planting bed 2	673.00	1,009.50		4				4	120.00
Planting bed 3	130.00	195.00		1				1	30.00
Planting bed 4	689.00	1,033.50		2				2	60.00
Planting bed 5	351.00	526.50			4			4	140.00
Planting bed 6	403.00	604.50		5				5	150.00

Note: For all planting beds proposed, the available soil depth is considered to be 1.5m.

Planting bed no.	Available Soil Area (sq m)	Available Soil Volume (cu m)	No. of trees proposed				Existing trees	Total No. of trees	Min. required Soil volume total (cu m)
			Small Column (20m ²)	Medium (25m ²)	Large (30m ²)	Evergreen (25m ²)			
Planting bed 7 - 3m depth	18.50	55.50	1					1	25.00
Planting bed 8 - 2.5m depth	9.00	22.50	1					1	25.00

Planting bed no.	Available Soil Area (sq m)	Available Soil Volume (cu m)	No. of trees proposed				Existing trees	Total No. of trees	Min. required Soil volume total (cu m)
			Small Column (12m ²)	Medium (15m ²)	Large (18m ²)	Evergreen (15m ²)			
Planting bed 9 - 0.73m depth	136.00	99.28	5	2				7	90.00
Planting bed 10 - 0.73m depth	97.50	71.18	3	2				5	66.00
Planting bed 11 - 0.73m depth	33.00	24.09	2					2	24.00
Planting bed 12 - 0.73m depth	95.00	69.35	3	1				4	51.00
Planting bed 13 - 1.5m depth	83.00	124.50	2	2				4	54.00
Planting bed 14 - 1.5m depth	193.00	289.50	7			2		9	135.00
Planting bed 15 - 1.5m depth	30.00	45.00		2				2	30.00
Planting bed 16 - 1.5m depth	135.00	202.50	2	4		1		7	99.00
Planting bed 17 - 1.5m depth	30.00	45.00		2				2	30.00
Planting bed 18 - 1.5m depth	61.00	91.50		2		1		3	45.00
Planting bed 19 - depth varies	707.50	410.00		13		6		19	285.00

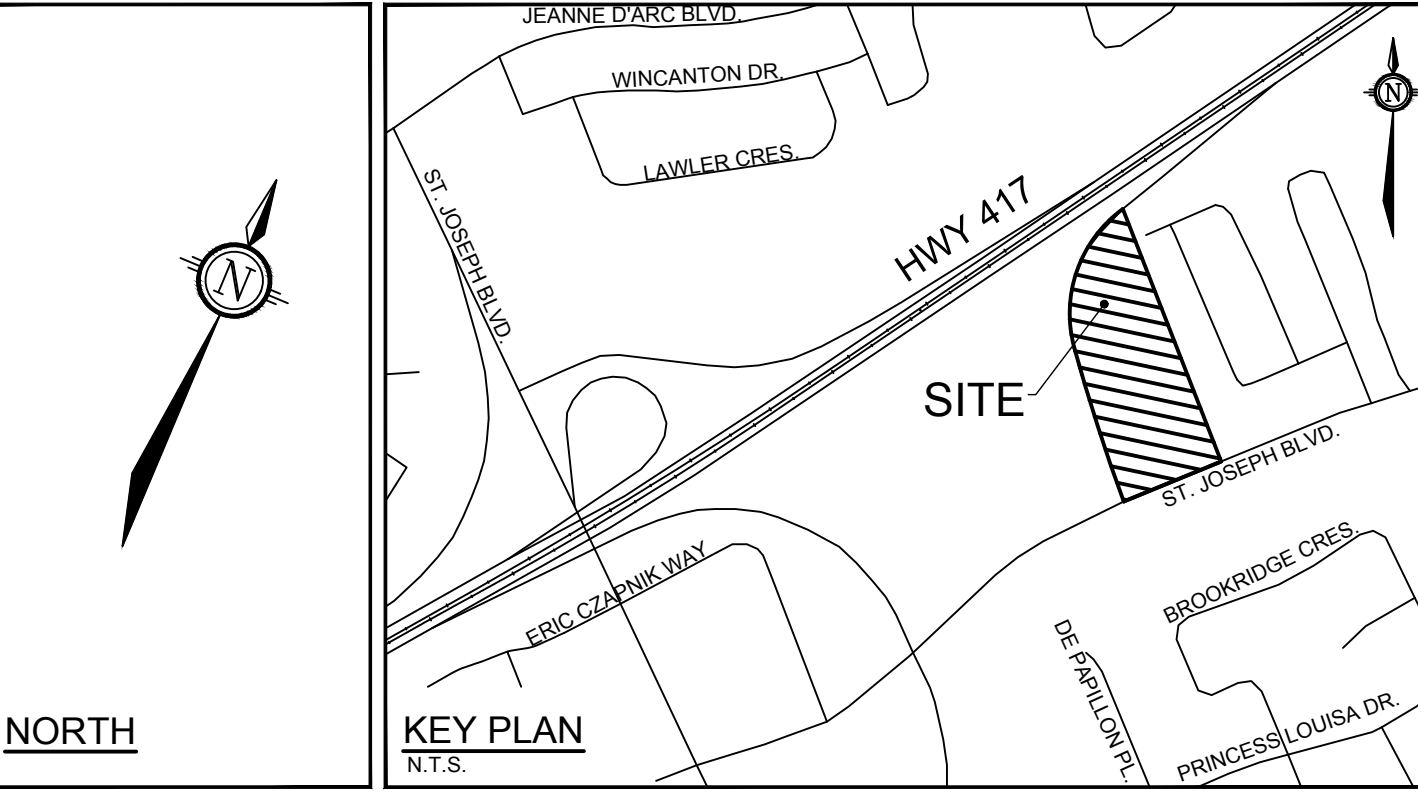
SIZE OF TREE	AVERAGE MATURE SPREAD	CANOPY COVERAGE PER TREE (m ²)	QUANTITY OF TREES	TOTAL CANOPY COVERAGE (m ²)
Deciduous - Small/Column (<7.5m tall)	5m	20	19	373
Deciduous - Medium (7.5-14m tall)	10m	79	64	5027
Deciduous - Large (14m+ tall)	15m	177	6	1060
Coniferous	5m	20	18	353

PROPOSED TOTAL CANOPY COVERAGE (m²):	6813
TOTAL SITE AREA (m²):	17,813
EST. CANOPY COVERAGE (%):	38%

Area of a circle = (r x r) x π
 Canopy coverage per tree calculation: (average mature spread/2) x (average mature spread/2) x π

- ### RAISED PLANTERS
- Set trees in raised planters on a bed of heavily compacted growing medium, at the bottom, to eliminate settlement.
 - Backfill around the root ball with growing medium in 150mm lifts. Tamp and water each lift to eliminate air pockets or settlement.
 - Growing medium to be:
 - 80% commercial screened topsoil
 - 10% peat moss or compost, and
 - 10% perlite.
 - Cover top of the planter surface with 75mm of shredded bark mulch.

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	Native Status
Coniferous Trees							
RFP	5	<i>Pinus cembra</i> 'Algonquin Pillar'	Algonquin Pillar Swiss Stone Pine	200cm Ht	BBC	As Shown	Exotic
Deciduous Trees							
AC	5	<i>Amelanchier canadensis</i> (Multi-stem)	Shadblow Serviceberry	Clump 200cm	WB	As Shown	Native
ALS	2	<i>Amelanchier laevis</i> 'Spring Flurry'	Spring Flurry Serviceberry	50mm Cal	WB	As Shown	Native
ARF	1	<i>Acer rubrum</i> 'Autumn Flame'	Autumn Flame Red Maple	50mm Cal	WB	As Shown	Native/Cultivar
ARU	5	<i>Acer rubrum</i> 'Autumn Radiance'	Autumn Radiance Red Maple	50mm Cal	WB	As Shown	Native/Cultivar
AFCM	3	<i>Acer x freemanii</i> 'Celezam'	Celebration Maple	50mm Cal	WB	As Shown	Native/Cultivar
COA	7	<i>Cornus alternifolia</i>	Pagoda Dogwood	50mm Cal	WB	As Shown	Native
CLU	6	<i>Cladrasia kentukea</i> (formerly 'Tutes')	Yellow v. ood	50mm Cal	WB	As Shown	Exotic
MLS	1	<i>Melus Spring Snow</i>	Spring Snow Crabapple	50mm Cal	WB	As Shown	Native/Cultivar
OV	3	<i>Ostrya virginiana</i>	Hop-hornbeam, Iron ood	50mm Cal	WB	As Shown	Native
OM	4	<i>Quercus macrocarpa</i>	Burr Oak	50mm Cal	WB	As Shown	Native
SRD	6	<i>Sorbus decora</i>	Showy Mountain-Ash	50mm Cal	WB	As Shown	Native
TFG	4	<i>Tilia flavescens</i> 'Glenleven'	Glenleven Linden	50mm Cal	WB	As Shown	Exotic
Coniferous Shrubs							
Jcf	14	<i>Juniperus chinensis</i> 'Fairview'	Fairview Juniper	175cm Ht	WB	80cm O.C.	Native/Cultivar
Jco	55	<i>Juniperus horizontalis</i> 'Plumosa Compacta'	Compact Andorra Juniper	40cm Spr	PT	140cm O.C.	Native/Cultivar
Pum	73	<i>Pinus mugo</i> 'Slowmound'	Slow mound Mugo Pine	40cm Spr	PT	100cm O.C.	Native/Cultivar
Mid	72	<i>Microbiota decussata</i>	Siberian Carpet Cypress	50cm Spr	PT	120cm O.C.	Exotic



- ### PRODUCT INFORMATION
- Install products as per manufacturer specifications. Shop drawings required.
- ### LEGEND
- PROPERTY LIMIT
 - LIMIT OF U/G STRUCTURE
 - 7.5m BUILDING FOUNDATION OFFSET - REFER TO TREE PLANTING IN SENSITIVE CLAY NOTE
 - PROPOSED CONCRETE
 - PROPOSED PAVERS - INDUSTRIA 300 SERIES
 - PROPOSED PAVERS - BLU 80 SMOOTH COMMERCIAL
 - PLANTING BED
 - PLANTING BED - 20m HT MAX.
 - REFORESTATION - 14m HT MAX.
 - PROPOSED DECIDUOUS TREE
 - PROPOSED CONIFEROUS TREE
 - EXISTING TREE TO REMAIN
 - TREE PROTECTION FENCE
 - PROPOSED BIKE PARKING
 - PROPOSED DECORATIVE FENCE
 - PROPOSED BENCH
 - PROPOSED TRELLIS
 - PROPOSED DECORATIVE ROCK ACCENT FEATURES
- ### NOVATECH DETAILS
- Found on Sheet L3.
 D1. Standard Deciduous Tree Planting
 D2. Standard Coniferous Tree Planting
 D3. Shrub and Perennial Planting
 D4. Tree Protection Fence
 D5. Reforestation
 D6. Wood Screen Detail
 D7. Bike Layout
 D8. Bench
 D9. Trellis
 D10. Roof Planting
 D11. Roof Paving

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 - 10% perlite.
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- ### TREE QUANTITIES AND OWNERSHIP
- TOTAL QUANTITY OF PROPOSED TREES: 104**
TOTAL QUANTITY OF PROPOSED TREES - L2 - 55
PROPOSED TREES - CITY OF OTTAWA OWNERSHIP: L2 - 3
PROPOSED TREES - PRIVATE OWNERSHIP: L2 - 52

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.

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RYAN CHARTRAND - COSMEL

LANDSCAPE ARCHITECT:
RYAN JAMES - NOVATECH

ARCHITECT:
NICOLAS CLOUTIER - LEMAY MICHAUD

URBAN PLANNERS:
TYLER YAKICHUK - FOTENN

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No.	REVISION	DATE	BY
4.	RE-ISSUED FOR SPA	DEC 24/24	RJ
3.	ISSUED FOR SPA	JUL 19/24	RJ
2.	ISSUED FOR COORDINATION	MAY 30/24	RJ
1.	ISSUED FOR COORDINATION	FEB 16/24	RJ

SCALE: 1:300

DESIGN: KW
 CHECKED: SC/RJ
 DRAWN: ML/MT
 CHECKED: SC/KW
 APPROVED: RJ

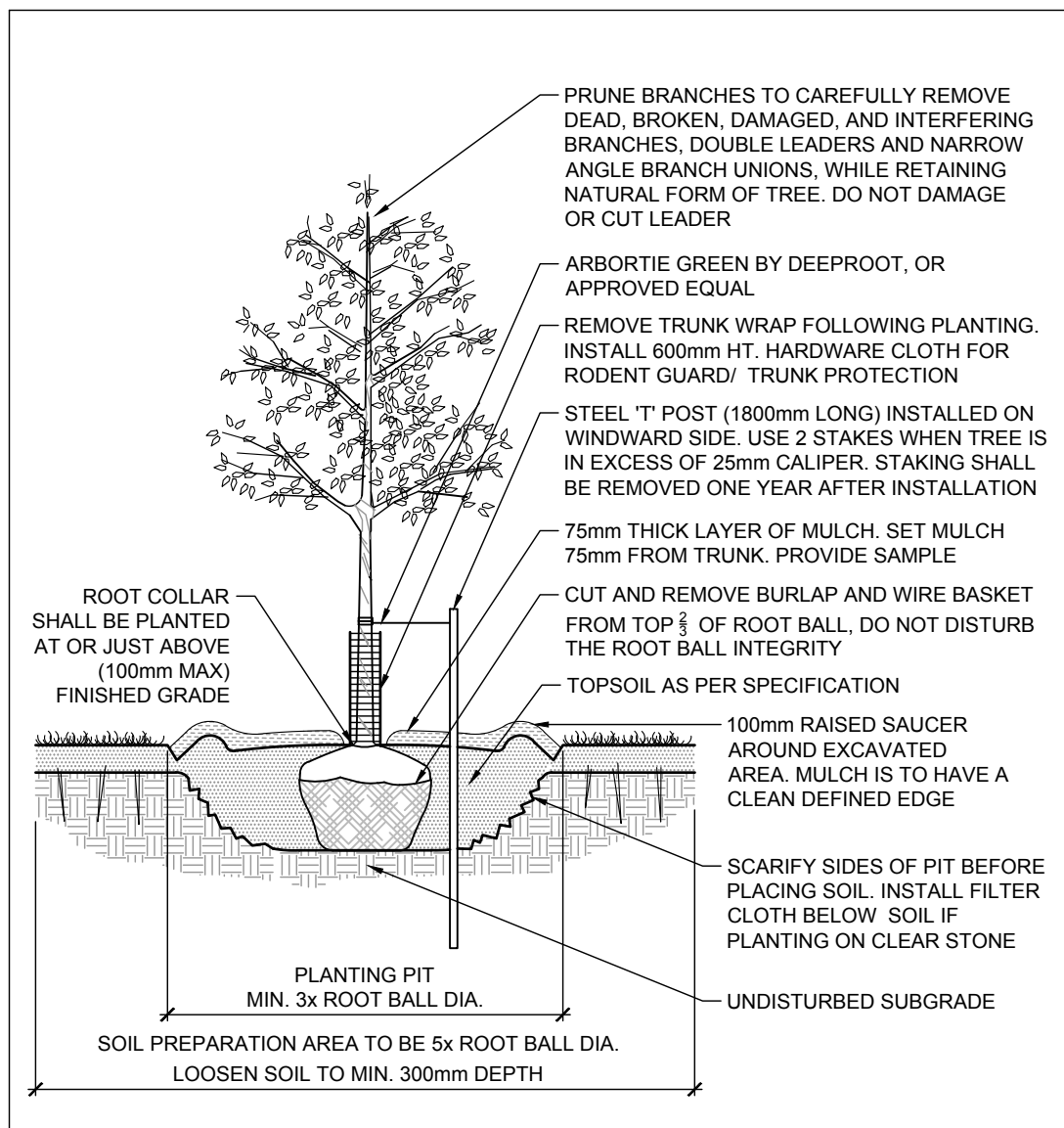
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 Suite 200, 240 Michael Cowpland Drive
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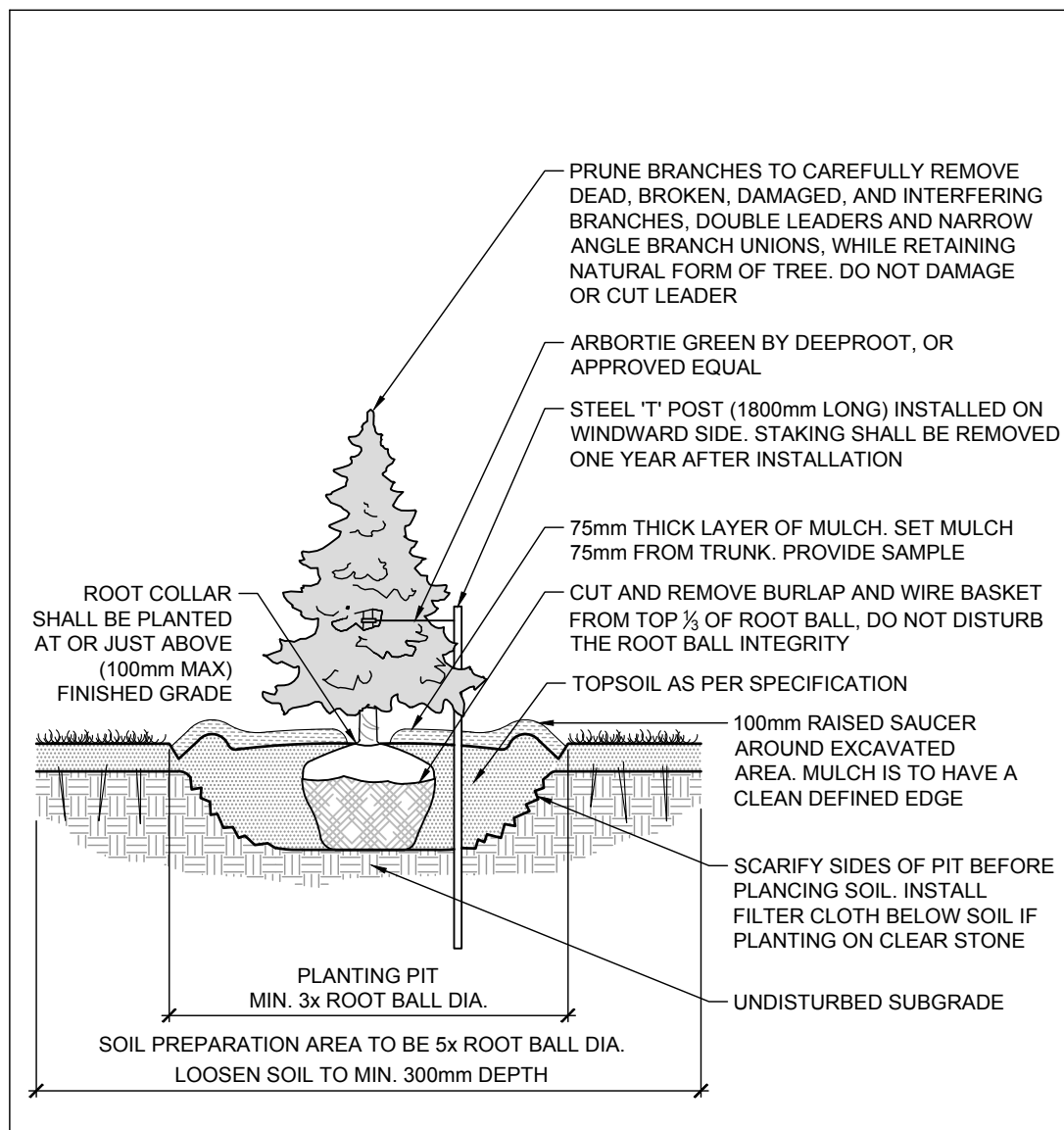
LOCATION
 CITY OF OTTAWA
 CHARTO LANDS -3459 & 3479 ST. JOSEPH BOULEVARD

DRAWING NAME
 LANDSCAPE PLAN

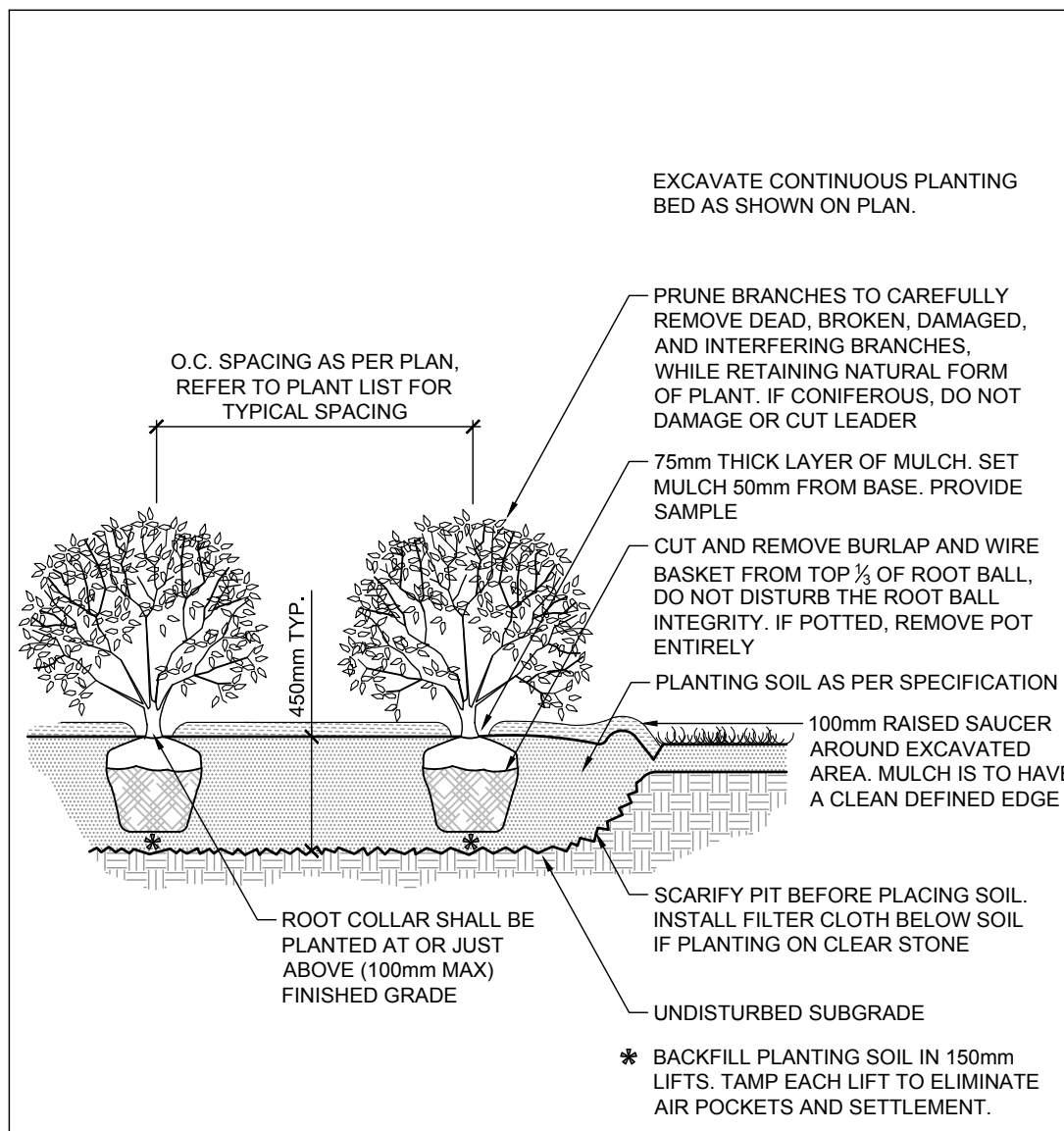
PROJECT No. 113020-00
 REV # 4
 DRAWING No. 113020-L2



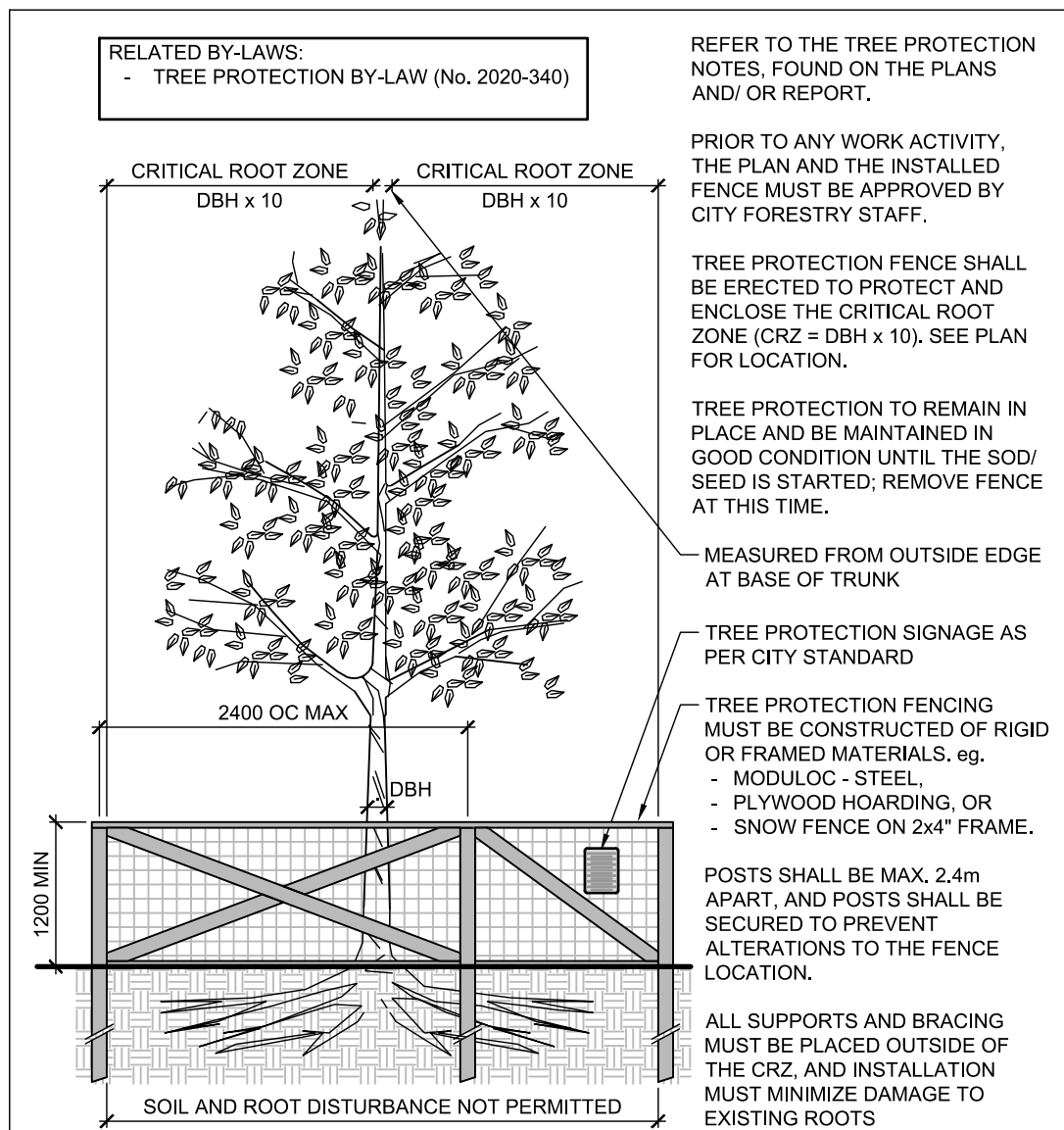
STANDARD DECIDUOUS TREE PLANTING D1



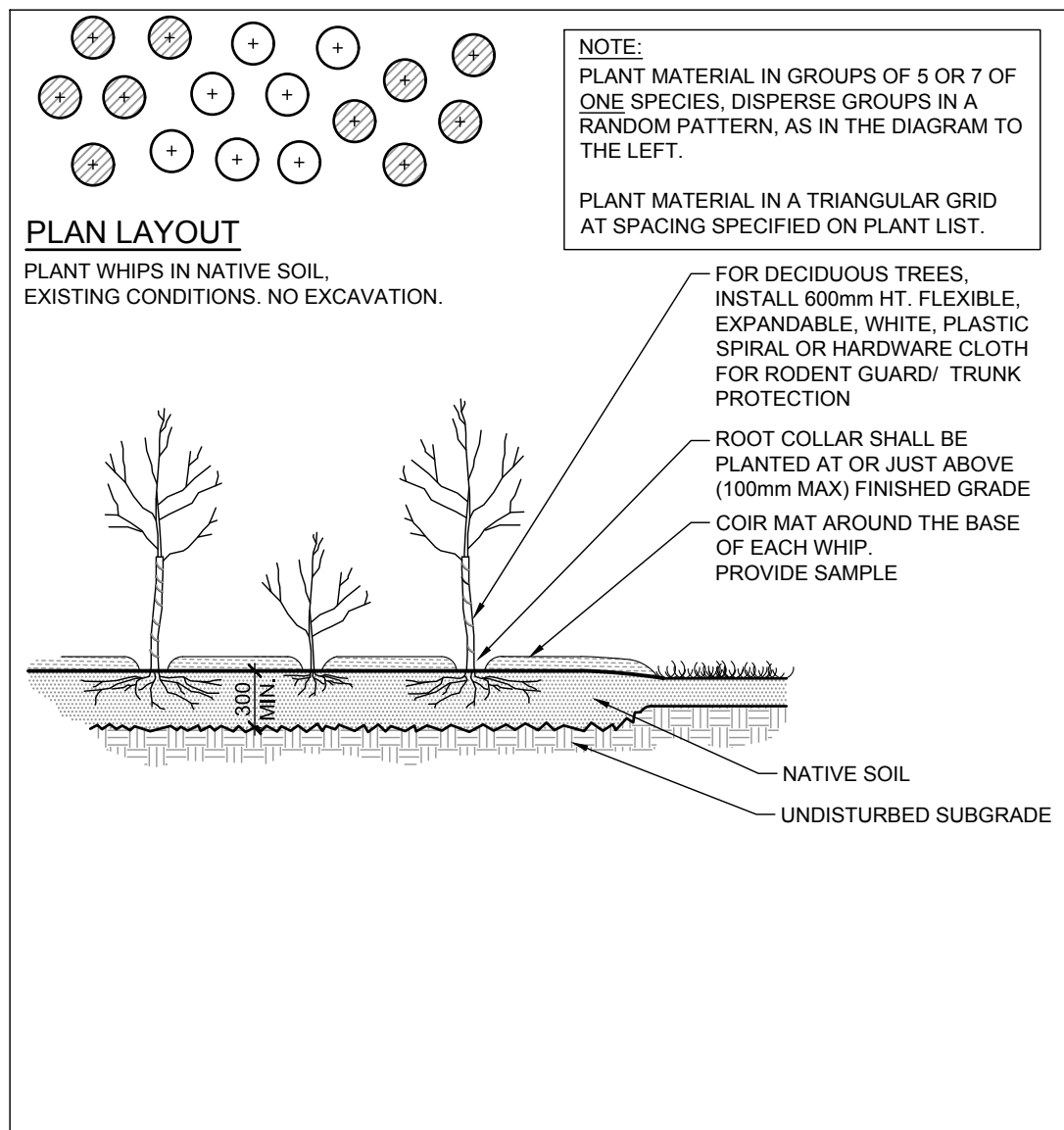
STANDARD CONIFEROUS TREE PLANTING D2



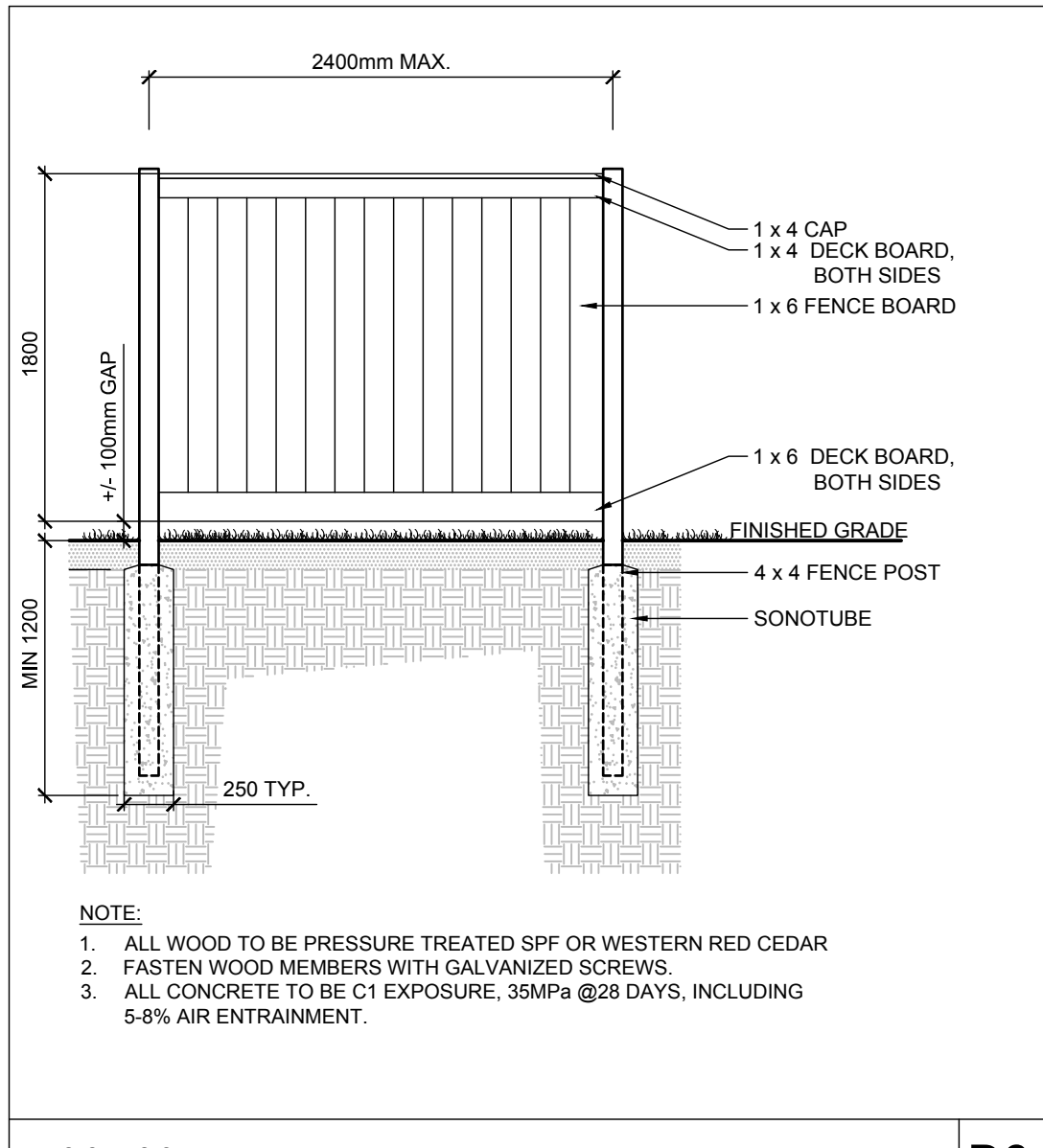
SHRUB AND PERENNIAL PLANTING D3



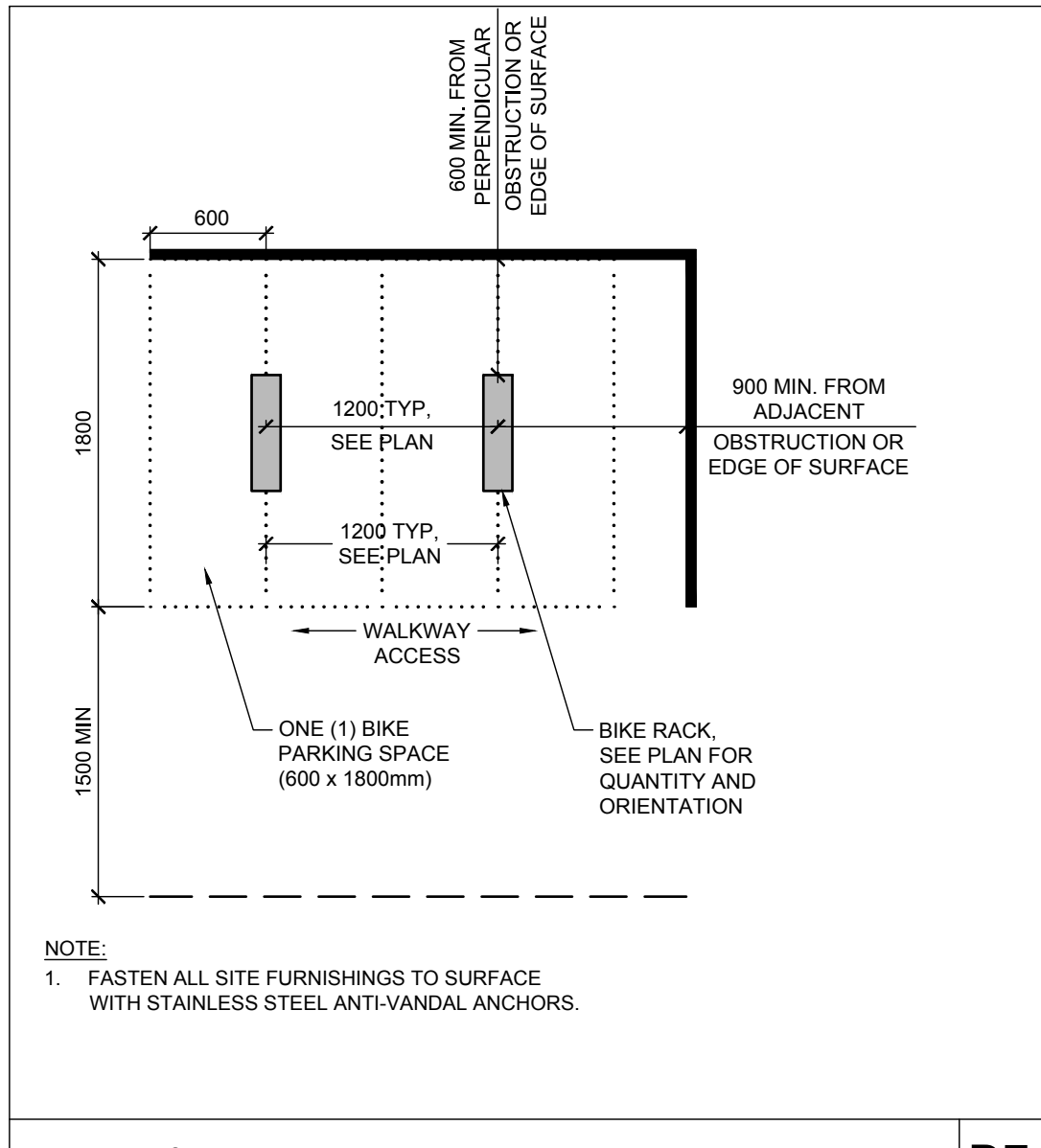
TREE PROTECTION FENCE D4



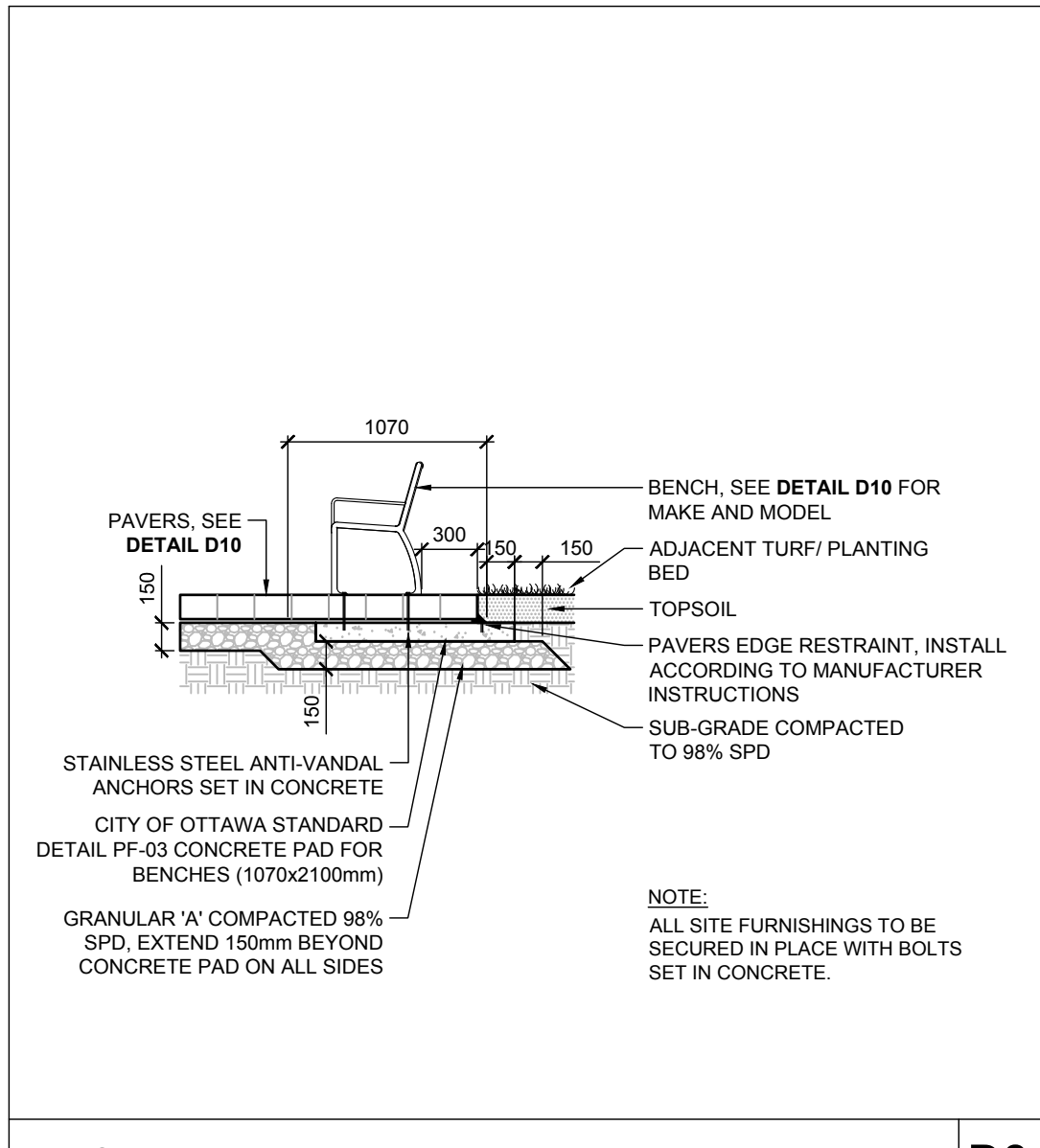
REFORESTATION D5



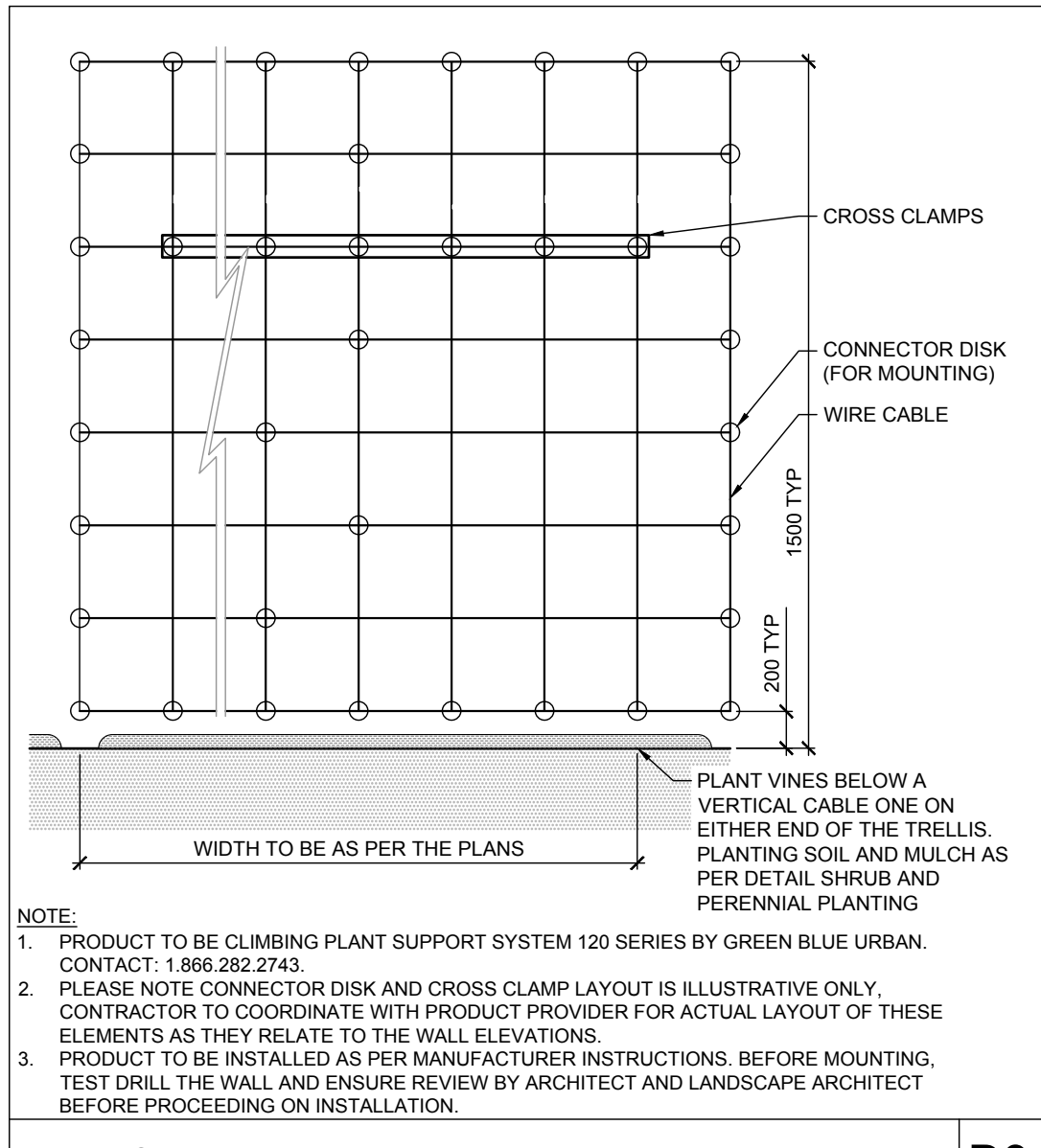
WOOD SCREEN DETAIL D6



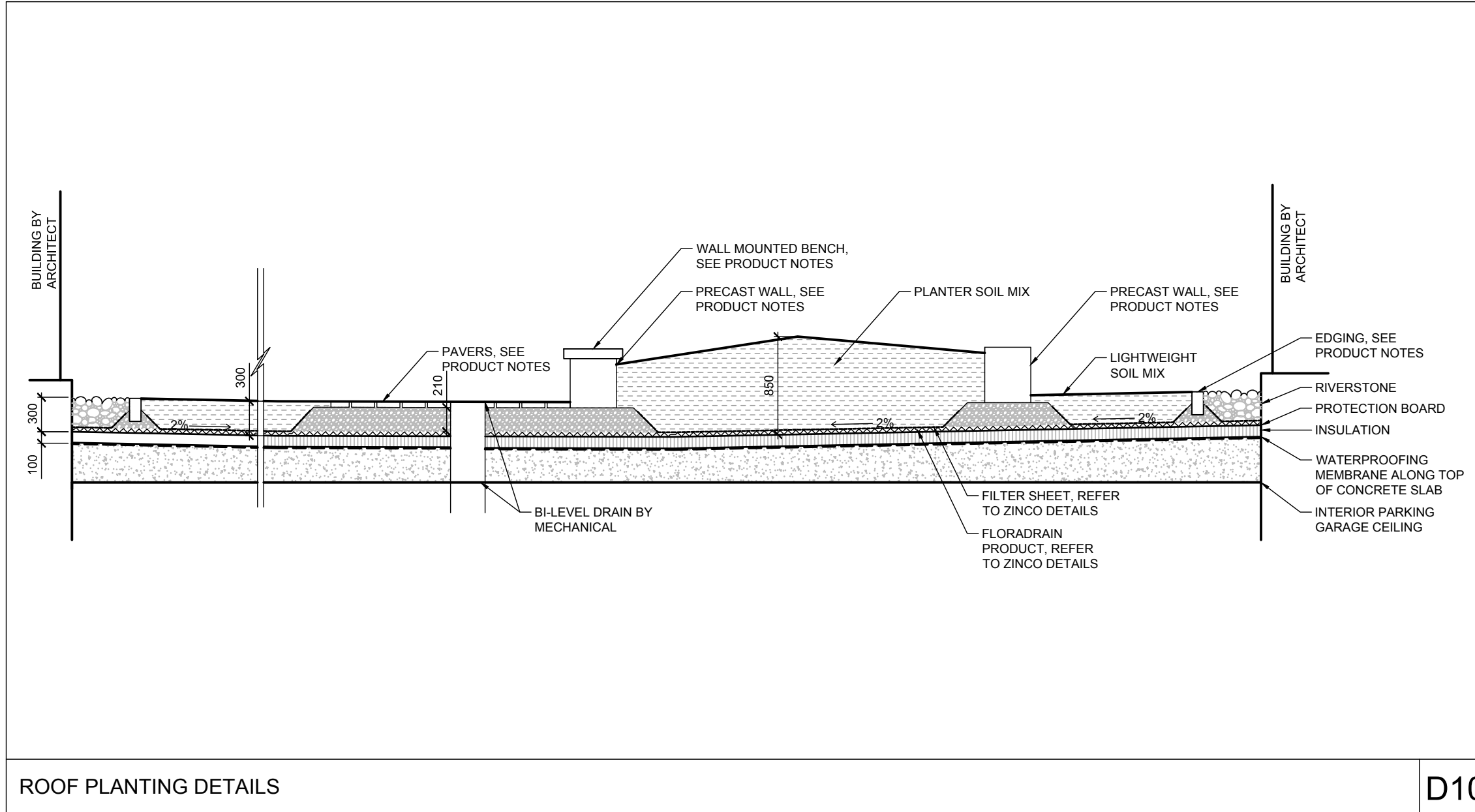
BIKE LAYOUT D7



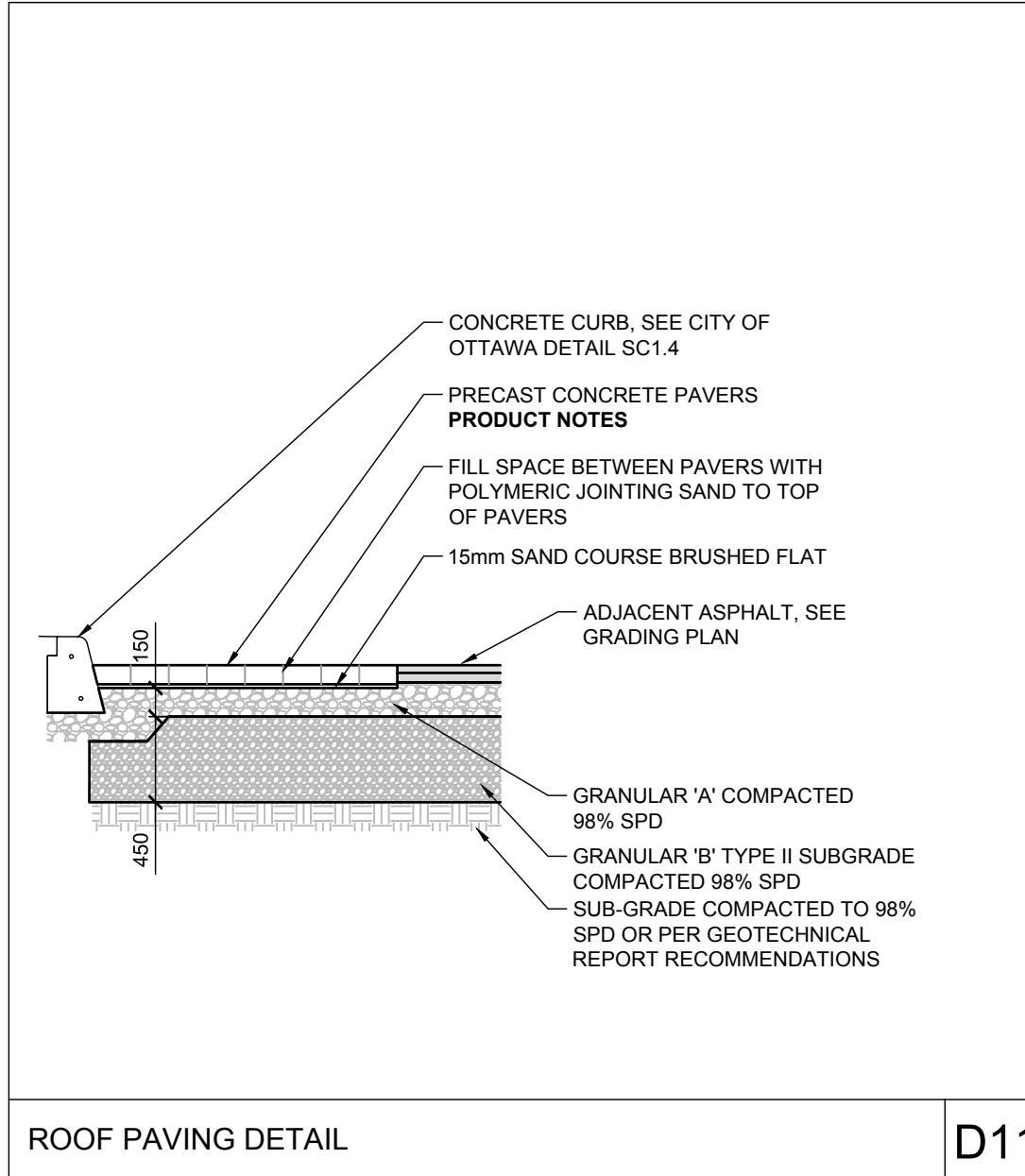
BENCH D8



TRELLIS D9



ROOF PLANTING DETAILS D10



ROOF PAVING DETAIL D11

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