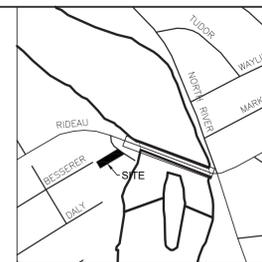


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Legend

- EXISTING SIGNIFICANT TREE
- EXISTING TREE
- EXISTING WOODED AREA
- EXISTING VEGETATION ID
- CRITICAL ROOT ZONE
- EXISTING TREE TO BE REMOVED
- EXISTING VEGETATION GROUPING TO BE REMOVED
- PROPOSED CONCRETE UNIT PAVERS
- PROPOSED CONCRETE
- PROPOSED RIVERSTONE
- PROPOSED TEMPORARY TREE PROTECTION FENCE, REFER TO DETAILS 1 & 2/L101B
- PROPERTY LINE

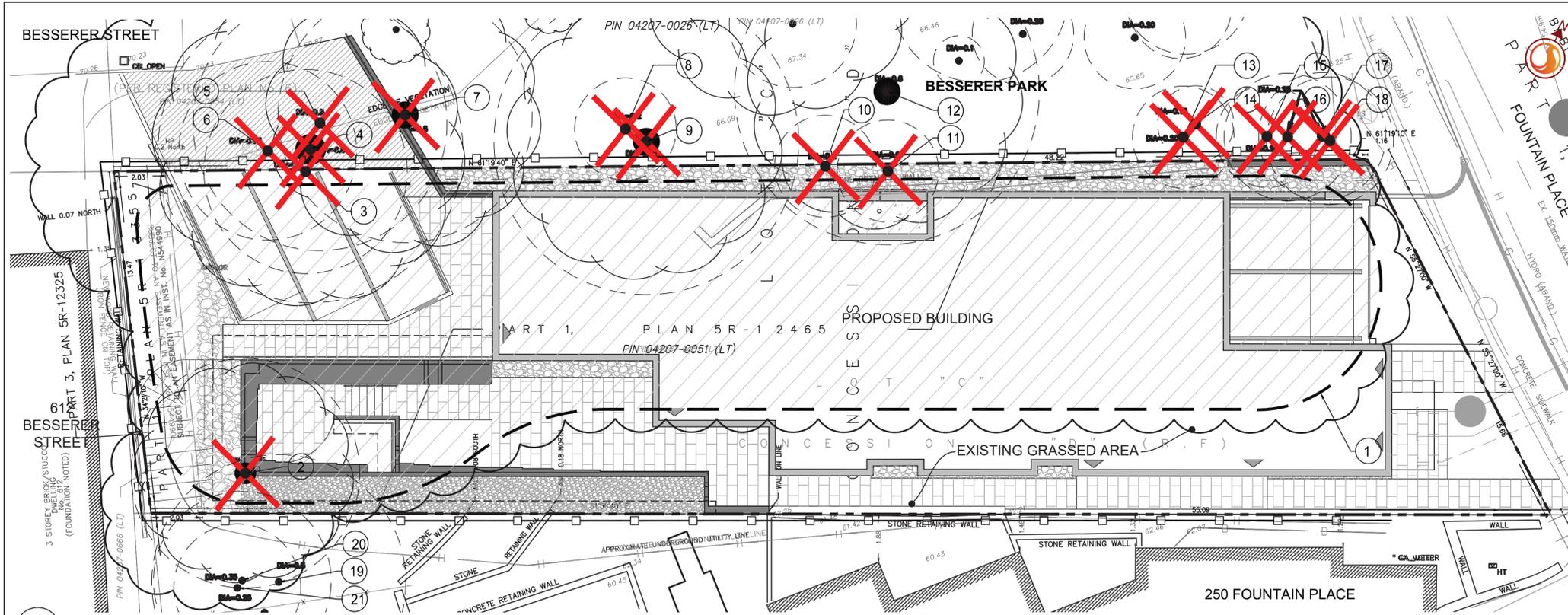


TREE PRESERVATION NOTES

1. NO TREES SHALL BE REMOVED WITHOUT THE CITY OF OTTAWA WRITTEN APPROVAL AS DEEMED UNDER BY-LAW NUMBER 2009-200.
2. NO VEGETATION REMOVAL SHALL OCCUR BETWEEN APRIL 15 AND AUGUST 15 OF ANY YEARS TO PROTECT BREEDING MIGRATORY BIRDS, AS WELL AS AT RISK BAT SPECIES. TREE REMOVAL DURING THIS PERIOD BY UNAVOIDABLE, THE CONTRACTOR IS REQUIRED TO CONDUCT A NESTING SURVEY BY A REGISTERED PROFESSIONAL AVIAN BIOLOGIST TO IDENTIFY AND ENSURE NO NESTING ACTIVITIES ARE PRESENT. TREE REMOVAL WILL BE ALLOWED WITHIN FIVE (5) DAYS OF CONDUCTING THE SURVEY.
3. CONTRACTOR SHALL ENSURE THE PROTECTION OF MATURE TREES IDENTIFIED TO BE RETAINED. TREE PROTECTION FENCING SHALL BE INSTALLED 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 (DBH). THE CRZ IS CALCULATED AS DBH X 10 CM. TREE PROTECTION FENCING SHALL BE INSTALLED AS SPECIFIED ON DETAIL 2/L101.
4. TREES TO BE REMOVED AND LOCATED INSIDE BESSERER PARK SHALL ONLY BE CUT AT GRADE AND STUMP RETAINED. THIS WILL LIMIT DAMAGES TO THE SOIL AND ROOT SYSTEMS OF OTHER TREES TO BE PRESERVED IN THE PARK.
5. DURING EXCAVATION EQUIPMENT MUST BE MAINTAINED WITHIN THE CONFINES OF THE WORK AREA SO AS NOT TO DISRUPT ANY TURF OR TREE ROOTS UNNECESSARILY. DO NOT PLACE ANY MATERIAL OR EQUIPMENT WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY TREE TO BE RETAINED.
6. CONTRACTOR SHALL ENSURE THAT NO FILL WILL BE ALLOWED TO OCCUR ON THE SURFACE ABOVE THE CRITICAL ROOT ZONE (CRZ) OF TREES.
7. ALL EXCAVATED MATERIAL, INCLUDING IMPORTED MATERIAL, MUST BE REMOVED IMMEDIATELY AND NOT PLACED ON GRASS OR NEAR TREES IN ORDER TO PREVENT ROOT DAMAGE, ACCIDENTAL HITTING OF ADJACENT TREES, AND TURF DAMAGE OUTSIDE OF WORK AREA.
8. CONTRACTOR SHALL MINIMIZE SOIL COMPACTION BY KEEPING OPERATION OF MACHINERY AND EQUIPMENT CONFINED TO DESIGNATED WORK AREA.
9. CONTRACTOR SHALL KEEP A SPILL KIT ON SITE.
10. CONTRACTOR SHALL DEVELOP AN EMERGENCY RESPONSE PLAN.
11. CONTRACTOR SHALL AVOID SOIL CONTAMINATION AND FUTURE LIABILITY BY CONFINING THE OILING AND REFUELING OF MACHINERY AND EQUIPMENT TO DESIGNATED STAGING AREA.
12. NO FUEL IS TO BE STORED WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY TREE AND EXHAUST FLAMES FROM ALL EQUIPMENT MUST NOT BE DIRECTED TOWARDS ANY TREE'S CANOPY.
13. CONTRACTOR SHALL PREVENT ANY DAMAGE TO THE ROOT SYSTEM, TRUNK OR BRANCHES OF ANY TREES TO BE RETAINED ON SITE AND ON ADJACENT PROPERTIES.
14. STORAGE OF EQUIPMENT AND VEHICLES WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES IS STRICTLY PROHIBITED.

WORK WITHIN PROTECTED AREAS

1. EXCAVATION WORK:
 - TO ENSURE THE ROOTS ARE NOT DISTURBED MORE THAN NECESSARY AND WHERE EXCAVATION WORKS ARE UNAVOIDABLE WITHIN THE CRZ OF TREES, THE FOLLOWING MITIGATION MEASURES SHALL BE USED:
 - ALL EXCAVATION WITHIN THE CRZ OF TREES SHALL BE BY HAND OR HYDRO EXCAVATION USING THE SMALLEST TOOLS. ROOT CUTTING SHALL BE MADE USING A SHARP SPADE OR KNIFE AT THE LIMIT OF DISTURBANCE PRIOR TO ANY CONSTRUCTION ACTIVITIES.
 - THE CONTRACTOR SHALL ONLY TUNNEL OR BORE WITHIN THE CRZ, INSTEAD OF CREATING A TRENCH.
 - ANY ROOTS THAT ARE EXPOSED BY CONSTRUCTION ACTIVITIES MUST BE COVERED WITH NATIVE TOPSOIL IMMEDIATELY. TO ENSURE THAT THE ROOTS DO NOT DRY OUT OR HAVE ANY FURTHER DAMAGE OCCUR TO THEM.
 - IN ALL THOSE INSTANCES WHERE ROOT PRUNING IS REQUIRED, THE SERVICE OF A CERTIFIED ARBORIST OR QUALIFIED TREE WORKER UNDER THE SUPERVISION OF A CERTIFIED ARBORIST SHALL BE RETAINED. IN ADDITION, ALL REMEDIAL WORKS MUST BE CONDUCTED BY A CERTIFIED CARE PROFESSIONAL TO ENSURE PROPER CARE IS ADMINISTERED IN ORDER TO ENABLE THE CONTINUED HEALTH OF THE TREES.
2. GRADING WORK:
 - WHERE RE-GRADING IS REQUIRED WITHIN THE CRZ, IT SHOULD BE PERFORMED BY HAND UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.



1 TREE PRESERVATION PLAN
1:100

RETENTION QUALITIES

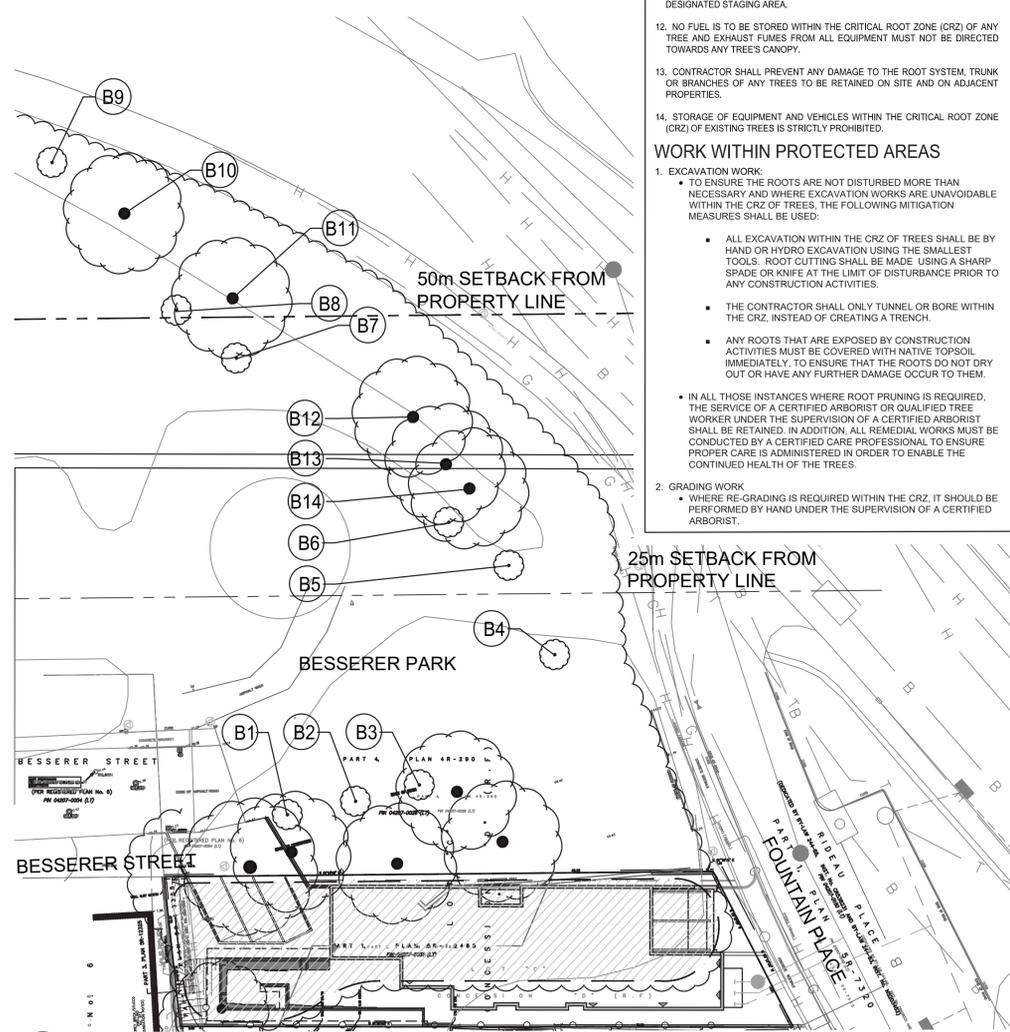
PLANT ID	REMARKS	SUITABILITY FOR RETENTION
<i>Acer negundo</i> / Manitoba maple	Invasive species. Branches have tendency to lean and break easily.	Moderate to Poor
<i>Acer platanoides</i> / Norway maple	Invasive species. Tolerant to poor soils, compaction and pollution. Once established, Norway maples form a dense forest canopy that shades out other species. The seedlings, which are shade tolerant, can form a thick mat on the forest floor that will further limit regeneration of other species.	High
<i>Rhamnus spp.</i> / Buckthorn	Invasive species.	Not recommended
<i>Ulmus americana</i> / American elm	Tolerant to some fill. Root system is tolerant of excavation works. Sensitive to Dutch elm disease.	Moderate to Poor

EXISTING VEGETATION SCHEDULE

TREE ASSESSMENT CONDUCTED APRIL 20, 2016, June 22, 2017 (Butternut trees) and AUGUST 9, 2019

PLANT ID	BOTANICAL NAME / COMMON NAME	DIAMETER AT BREAST HEIGHT (cm)	HEALTH CONDITION	REMARKS
1	<i>Acer negundo</i> / Manitoba Maple - 45% <i>Acer platanoides</i> / Norway Maple - 45% <i>Rhamnus cathartica</i> / Buckthorn - 7.5% <i>Ulmus americana</i> / American Elm - 2.5%	15-40	Good to Poor	GROUPING; Trees located closer to Fountain Place are generally in good health condition with stressed and damaged trees being at the back of the property near 612 Besserer Street; GROUPING TO BE REMOVED
2	<i>Acer negundo</i> / Manitoba Maple	50	Fair to Poor	Tree is located on or close to the property line; TO BE REMOVED
3	<i>Ulmus americana</i> / American Elm	40	Good	Growing on hill; TO BE REMOVED
4	<i>Acer negundo</i> / Manitoba Maple	60	Fair	Canopy extends over Besserer Street and Besserer Park; Tree is located in Besserer Park; Tree growing on a hill; TO BE REMOVED
5	<i>Acer negundo</i> / Manitoba Maple	50	Fair	Tree in Besserer Park; TO BE REMOVED
6	<i>Acer negundo</i> / Manitoba Maple	35	Fair	Tree in Besserer Park; growing on a hill; TO BE REMOVED
7	<i>Acer negundo</i> / Manitoba Maple	50	Fair	Tree in Besserer Park; TO BE REMOVED
8	<i>Ulmus americana</i> / American Elm	20	Good	Tree in Besserer Park; growing on a hill; TO BE REMOVED
9	<i>Acer negundo</i> / Manitoba Maple	50	Fair	Tree in Besserer Park; growing on a hill; TO BE REMOVED
10	<i>Acer platanoides</i> / Norway Maple	20	Good	Tree on property line; growing on a hill; TO BE REMOVED
11	<i>Acer platanoides</i> / Norway Maple	20	Good	Growing on hill; TO BE REMOVED
12	<i>Acer negundo</i> / Manitoba Maple	60	Fair	Tree in Besserer Park; TO BE PROTECTED
13	<i>Acer platanoides</i> / Norway Maple	20	Good	Tree in Besserer Park; Adjacent to existing stone wall; TO BE REMOVED
14	<i>Acer platanoides</i> / Norway Maple	15	Good	Tree in Besserer Park; TO BE REMOVED
15	<i>Acer platanoides</i> / Norway Maple	20	Good	Tree in Besserer Park; Adjacent on/in existing stone wall; TO BE REMOVED
16	<i>Acer platanoides</i> / Norway Maple	25	Good	Tree in Besserer Park; Adjacent on/in existing stone wall; TO BE REMOVED
17	<i>Acer platanoides</i> / Norway Maple	25	Good	Tree in Besserer Park; Adjacent on/in existing stone wall; TO BE REMOVED
18	<i>Acer platanoides</i> / Norway Maple	25	Good	Tree in Besserer Park; Adjacent on/in existing stone wall; TO BE REMOVED
19	<i>Acer negundo</i> / Manitoba Maple	50	Fair	250 Fountain Place; TO BE PROTECTED
20	<i>Acer negundo</i> / Manitoba Maple	35	Fair	250 Fountain Place; TO BE PROTECTED
21	<i>Acer negundo</i> / Manitoba Maple	20	Good	250 Fountain Place; TO BE PROTECTED
B1 to B9	<i>Juglans cinerea</i> / Butternut	n/a	Dead to Poor	Besserer Park; Planted saplings
B10	<i>Juglans cinerea</i> / Butternut	6	Fair	Besserer Park; Located more than 50m from property; Category 1; Twig and branch dieback; 70% Live Crown
B11	<i>Juglans cinerea</i> / Butternut	3	Fair	Besserer Park; Located more than 50m from property; Category 2; twig dieback; 90% Live Crown
B12	<i>Juglans cinerea</i> / Butternut	23	Fair	Besserer Park; Located within 50m from property; Category 3; 100% Live Crown
B13	<i>Juglans cinerea</i> / Butternut	17	Fair	Besserer Park; Located within 50m from property; Category 2; Twig dieback; 80% Live Crown
B14	<i>Juglans cinerea</i> / Butternut	11	Poor	Besserer Park; Located within 50m from property; Category 1; Twig dieback; Heavily cankered; 80% Live Crown

NOTE:
1. DATA RELATED TO BUTTERNUT TREES WERE PROVIDED BY ANDREW BOYD, CONSULTING URBAN FORESTER WITH IF'S ASSOCIATES INC.



2 BUTTERNUT TREES IN BESSERER PARK
1:300

Revision	By	Appd.	YY.MM.DD
5	REVISED SITE PLAN	GM	IL 19.10.11
4	REVISED SITE PLAN	LZ	IL 18.10.26
3	ADDED BUTTERNUT TREE LOCATION	IL	IL 17.06.23
2	REVISED SITE PLAN	IL	IL 17.01.23
1	ISSUED TO SITE PLAN CONTROL APPROVAL	BD	IL 16.10.19

Revision: File Name: 160401234-L8

Permit-Seal



Client/Project
TC UNITED GROUP
244 FOUNTAIN PLACE
OTTAWA, ON

Title
TREE PRESERVATION PLAN

Project No. 160401234
Drawing No. Sheet 1 of 3
Scale 1:100
Revision

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Legend

- EXISTING SIGNIFICANT TREE TO REMAIN
- EXISTING WOODED AREA
- PROPOSED DECIDUOUS TREE
- PROPOSED CONIFEROUS TREE
- PROPOSED PERENNIALS AND ORNAMENTAL GRASSES
- PROPOSED PLANTING BED
- PROPOSED CONCRETE UNIT PAVERS REFER TO DETAIL 4/L102
- PROPOSED CONCRETE REFER TO ARCHITECTURAL DRAWINGS
- PROPOSED RIVERSTONE REFER TO DETAIL 5/L102
- T/SOD TOPSOIL AND SOD
- PROPOSED BOARD ON BOARD WOODEN FENCE
- PROPERTY LINE

- P1** INDUSTRIA POLISHED PAVERS BY TECO-BLOC OR APPROVED EQUIVALENT
- SIZE: 98mm X 150mm X 300mm
 - COLOUR: BEIGE CREAM
 - PATTERN: LINEAR GRID
- P2** LINEA SMALL RECTANGLE PAVERS BY TECO-BLOC OR APPROVED EQUIVALENT
- SIZE: 100mm X 100mm X 225mm
 - 100mm X 100mm X 325mm
 - 100mm X 100mm X 425mm
 - COLOUR: CHESTNUT BROWN
 - PATTERN: LINEAR; PARALLEL TO BUILDING

Revision	By	Appd.	YY.MM.DD
4	GM	IL	19.10.11
3	LZ	IL	18.10.26
2	IL	IL	17.01.23
1	BD	IL	16.10.19

File Name: 160401234-L8

Permit-Seal



Client/Project
TC UNITED GROUP

244 FOUNTAIN PLACE

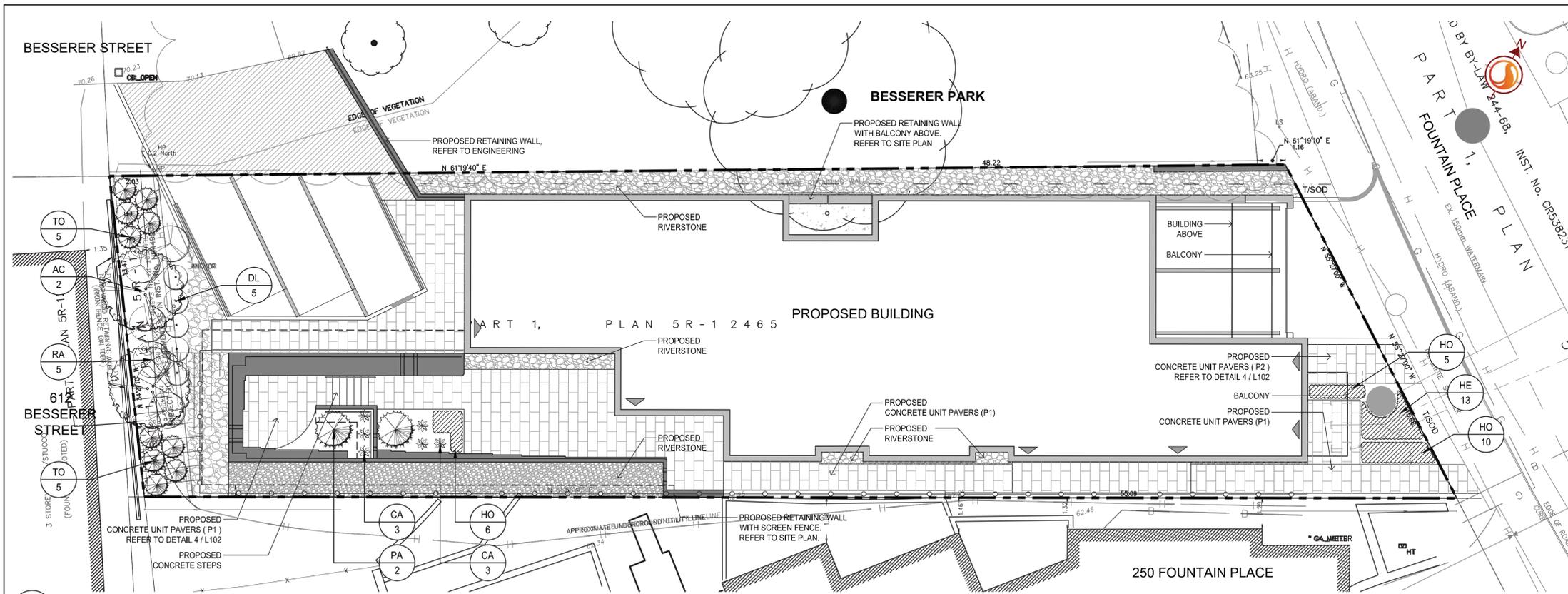
OTTAWA, ON

Title
LANDSCAPE PLAN

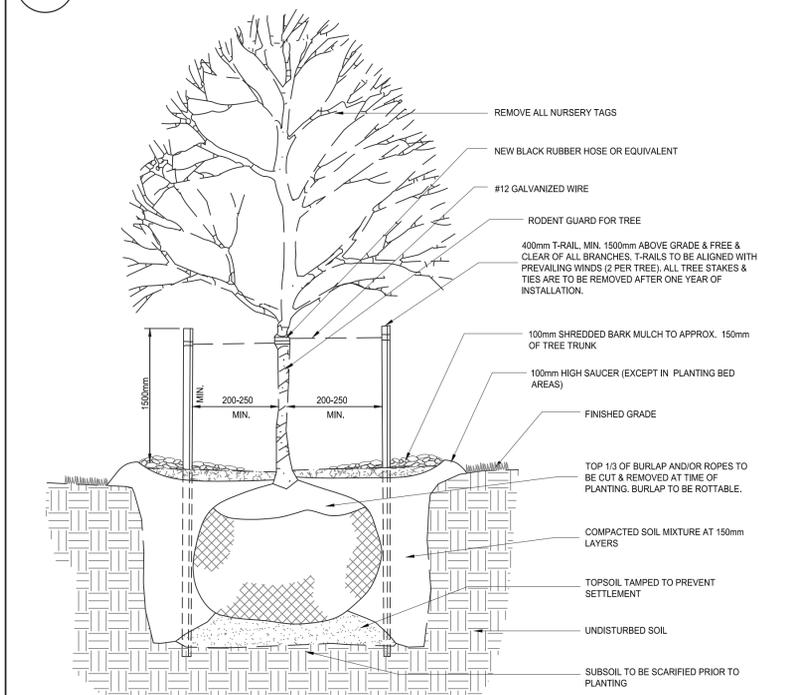
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Drawing No. Sheet Revision

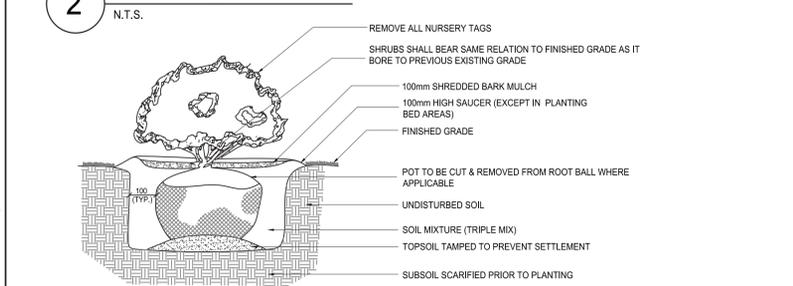
L102 3 of 3 4



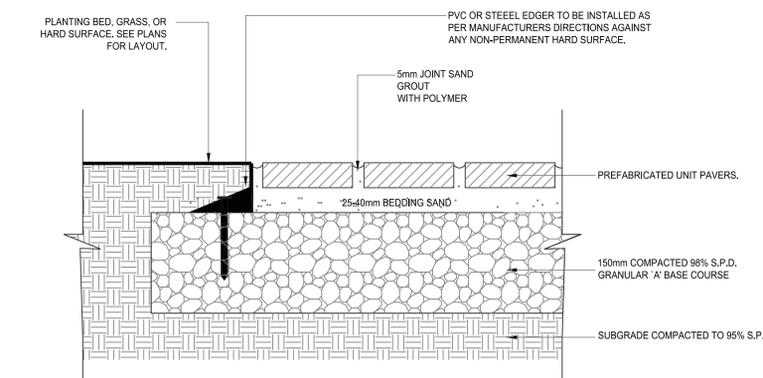
1 LANDSCAPE PLAN
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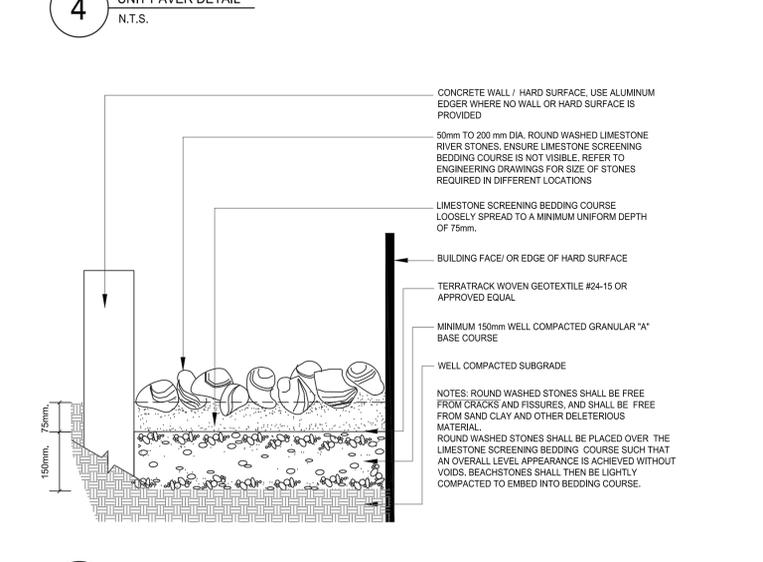
2 DECIDUOUS TREE PLANTING DETAIL
N.T.S.



3 SHRUB AND PERENNIAL PLANTING DETAIL
N.T.S.



4 UNIT PAVER DETAIL
N.T.S.



5 RIVERSTONE DETAIL
N.T.S.

PLANT LIST

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
DECIDUOUS TREES - REFER TO DETAIL 2/L102					
2	AC	<i>Amelanchier canadensis</i>	Serviceberry	2500mm ht.	W.B. - Clump Form; Plant @ 4000mm o/c
CONIFEROUS TREES - REFER TO DETAIL 2/L102					
2	PA	<i>Picea abies 'Cupressina'</i>	Columnar Norway Spruce	2000mm ht.	B.B.C.
10	TO	<i>Thuja occidentalis 'Degroot's Spire'</i>	Degroot's Spire Cedar	2000mm ht.	W.B.; Plant at 1000mm o/c
DECIDUOUS SHRUBS - REFER TO DETAIL 3/L102					
5	DL	<i>Diervilla lonicera</i>	Bush Honeysuckle	3 Gal.	Potted; Plant at 1000mm o/c
5	RA	<i>Rhus aromatica</i>	Fragrant Sumac	3 Gal.	Potted; Plant at 1500mm o/c
PERENNIALS / ORNAMENTAL GRASSES - REFER TO DETAIL 3/L102					
6	CA	<i>Calamagrostis acutiflora 'Overdam'</i>	Overdam Feather Reed Grass	1 Gal.	Potted; Plant at 750mm o/c
21	HO	<i>Hosta 'Blue Ivory'</i>	Blue Ivory Hosta	1 Gal.	Potted; Plant at 500mm o/c
13	HE	<i>Hemerocallis 'Gentle Shepherd'</i>	Gentle Shepherd Daylily	1 Gal.	Potted; Plant at 500mm o/c

LANDSCAPE NOTES:

1. REFER TO TREE PRESERVATION PLAN, FOR ADDITIONAL INFORMATION REGARDING TREE REMOVAL.
2. REFER TO "GRADING PLAN" FOR PROPOSED GRADING.
3. REFER TO "SITE SERVICING PLAN" FOR LOCATION AND DETAILS OF PROPOSED UNDERGROUND SERVICES.
4. SOD SHALL BE KENTUCKY BLUEGRASS SOD INSTALLED OVER 135mm OF TOPSOIL. SOD SHALL BE INSTALLED THROUGHOUT WITHIN LIMIT OF WORK AND IN ALL DISTURBED AREAS OUTSIDE THE LIMIT OF WORK. SOD SHALL BE INSTALLED AS PER OPSS 803.
5. CONTRACTOR TO LOCATE AND STAKE ALL UTILITIES PRIOR TO ANY WORK ON THE SITE. DO NOT PLANT DIRECTLY ABOVE UNDERGROUND UTILITIES. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR DIRECTION.
6. MAINTAIN A MINIMUM CLEARANCE OF 2.0m BETWEEN ALL UNDERGROUND UTILITIES AND PROPOSED TREES.
7. NO TREES SHALL BE PLANTED UNDER OVERHEAD WIRES.
8. THE LANDSCAPE ARCHITECT MAY ADJUST THE LOCATION OF TREES PRIOR TO PLANTING TO MINIMIZE CONFLICTS WITH UTILITIES, DRIVEWAYS AND INTERSECTION VISIBILITY.
9. CONTRACTOR SHALL SUPPLY ALL MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE WORK SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT FOR DIRECTION.
10. DO NOT MAKE SUBSTITUTIONS OF MATERIALS, PRODUCTS OR QUANTITIES WITHOUT PRIOR WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT.
11. THE CONTRACTOR TO MAKE GOOD TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT ANY AREAS DAMAGED BY THE WORK.
12. UPON THE COMPLETION OF WORK EACH DAY, REMOVE ALL DEBRIS, GARBAGE AND SURPLUS MATERIALS FROM THE SITE. KEEP THE SITE CLEAN AND USABLE AT ALL TIMES.
13. ALL WORKMANSHIP AND MATERIALS (INCLUDING PLANTS) TO BE GUARANTEED FOR ONE FULL YEAR FOLLOWING FINAL ACCEPTANCE OF THE PROJECT.
14. THE CONTRACTOR SHALL REMOVE ALL T-BAR AND WOODEN TREE STAKES PRIOR TO ASSUMPTION BY THE OWNER.
15. AT THE TIME OF INSPECTION FOR ACCEPTANCE ALL TREE PITS SHALL BE CULTIVATED, FREE OF WEEDS, LEAVES, BROKEN BRANCHES AND DEBRIS.

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