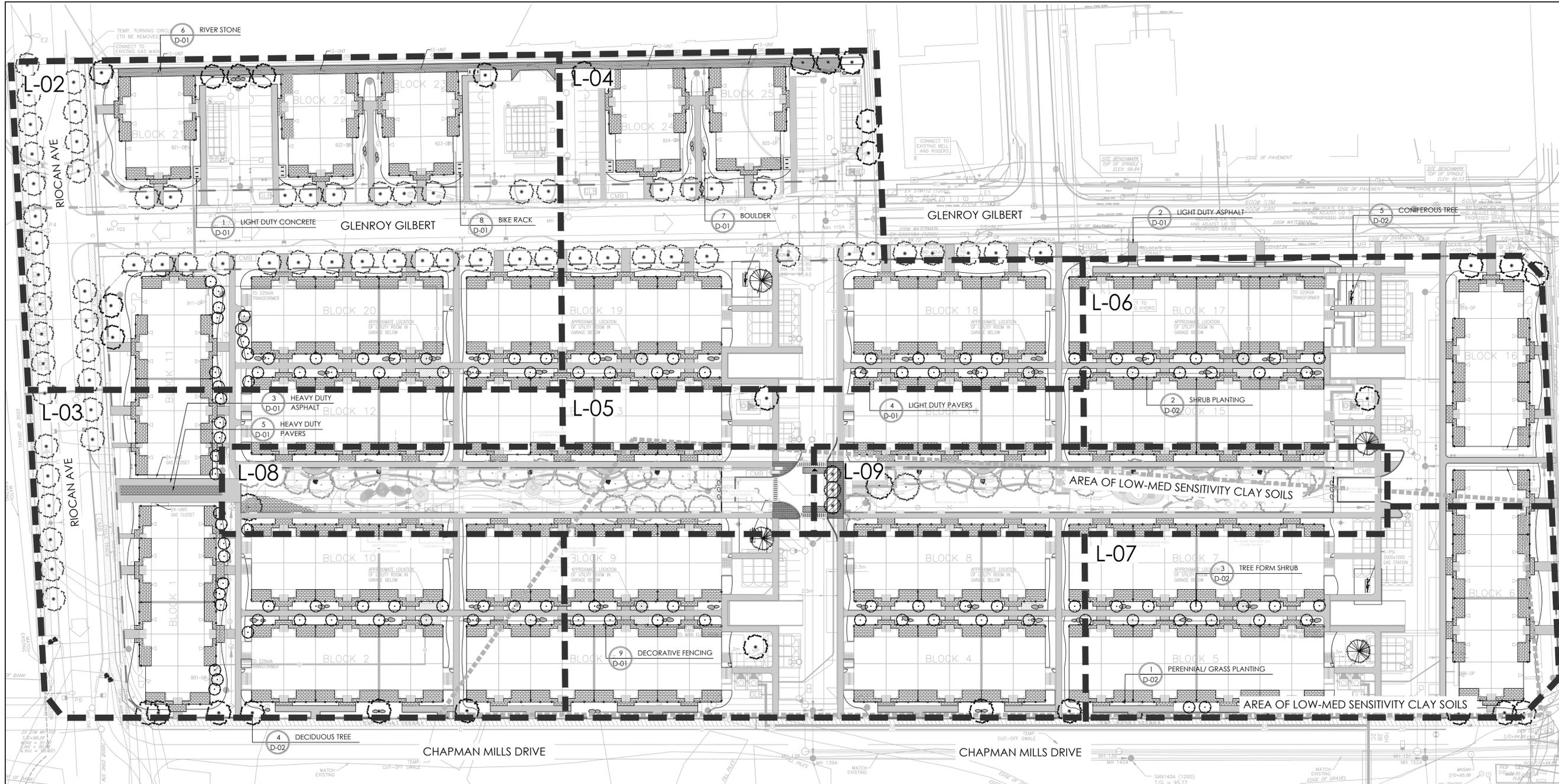


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LEGEND

----- PROPERTY LINE
 - - - - - LOW TO MED. SENSITIVE SOILS BOUNDARY
 - - - - - DECORATIVE FENCE

PLANTING

+ DECIDUOUS TREE TREE (N.L.C.)
 ○ MEDIUM DECIDUOUS TREE
 ○ CONIFEROUS TREE
 ○ TREE FORMED SHRUB
 ○ DECIDUOUS SHRUB
 ○ CONIFEROUS SHRUB
 ○ ORNAMENTAL GRASSES
 ○ PERENNIALS

SURFACING

■ RIVER STONE
 ■ UNIT PAVERS LIGHT DUTY PAVING
 ■ UNIT PAVERS HEAVY DUTY PAVING
 ■ CIP CONCRETE LIGHT DUTY PAVING
 ■ ASPHALT LIGHT DUTY PAVING

AMENITIES

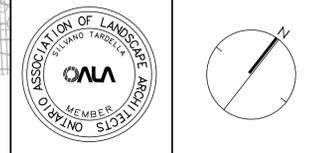
○ BIKE RACK
 ○ GRANITE SEATING BOULDERS

DETAIL KEY

○ 1 D-1 DETAIL NO.
 ○ 1 D-2 SHEET NO.

8	ISSUED FOR FIFTH SUBMISSION	FEB 13/24
7	ISSUED FOR THIRD SUBMISSION	OCT 13/23
6	RE-ISSUED FOR SECOND SUBMISSION	JUN 30/23
5	RE-ISSUED FOR SECOND SUBMISSION	MAY 31/23
4	ISSUED FOR SECOND SUBMISSION	APR 24/23
3	ISSUED FOR FIRST SUBMISSION	JUN 30/22
2	ISSUED FOR CLIENT REVIEW	JUN 10/22
1	ISSUED FOR CLIENT REVIEW	MAY 16/22

Revision
 City Approval Stamp



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Project

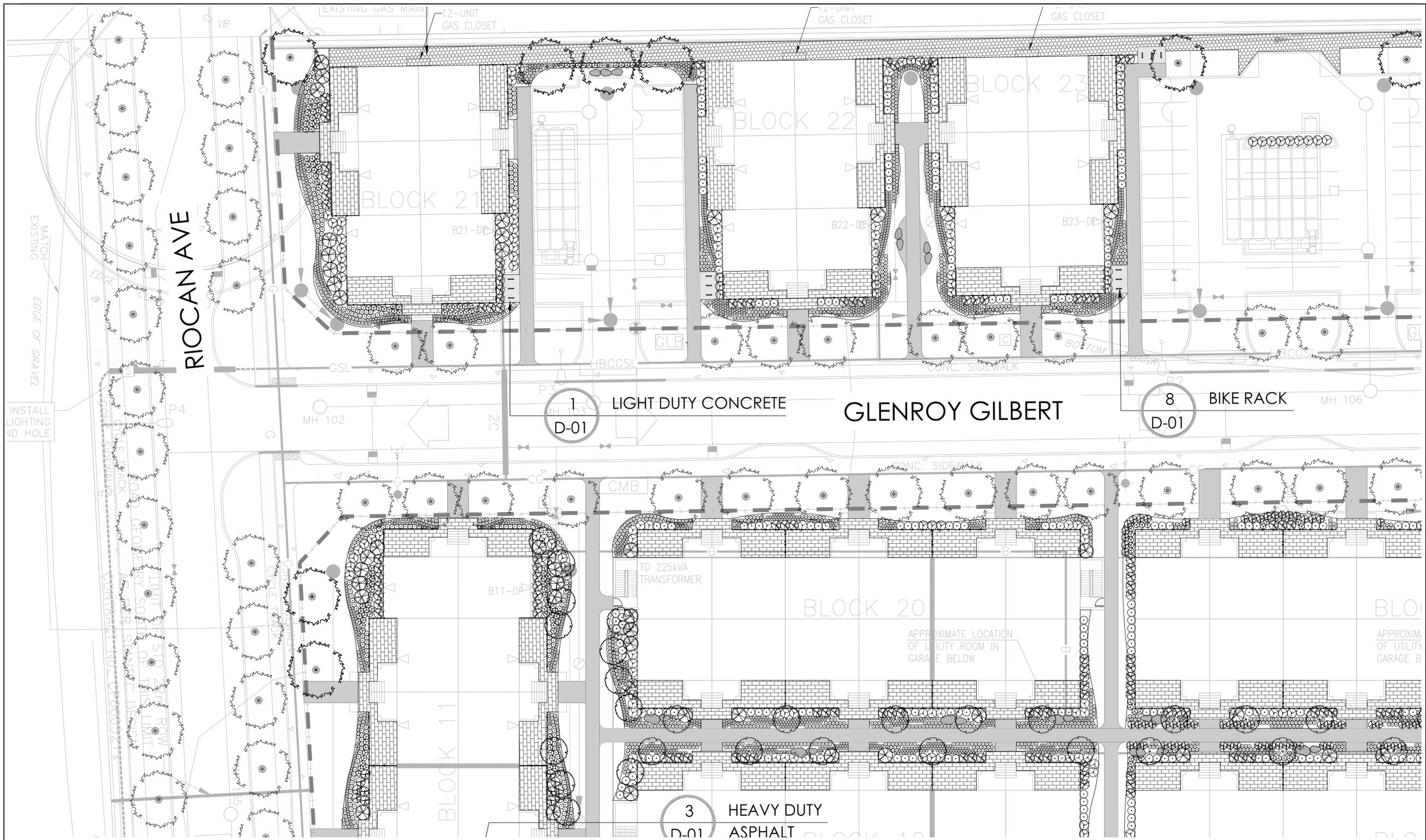
BARRHAVEN TOWN CENTRE

Title
 LANDSCAPE PLAN

Date	OCTOBER 2023	Sheet	L-01
Scale	1:500		
Drawn	EL		
Checked	SC		
Job No.	21-195		

- GENERAL NOTES:**
- ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISION OF THE STANDARDS AND SPECIFICATIONS FOR THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE. LOCAL UTILITY STANDARDS AND MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY WHERE REQUIRED.
 - THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION. TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
 - ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTORS EXPENSE.
 - ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTORS EXPENSE.
 - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS; THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE 'CONSTRUCTOR' AS DEFINED IN THE ACT.
 - ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE MINISTRY OF TRANSPORTATION OF ONTARIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PER LATEST AMENDMENT.
 - THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES TO PREVENT CONFLICTS.
 - ALL DIMENSIONS ARE IN METRES UNLESS SPECIFIED OTHERWISE.
 - THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE ENGINEER.
 - ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT.
 - ALL SEWERS CONSTRUCTED WITH GRADES LESS THAN 1.0% SHALL BE INSTALLED USING LASER ALIGNMENT AND CHECKED WITH LEVEL INSTRUMENT PRIOR TO BACKFILLING.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND TO BEAR THE COST OF THE SAME.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING, OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH AS SPECIFIED BY OPSD IS EXCEEDED.

- THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING, OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH AS SPECIFIED BY OPSD IS EXCEEDED.
- ALL PIPE / CULVERT SECTION SIZES REFER TO INSIDE DIMENSIONS.
- SHOULD DEEPLY BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE MUST BE NOTIFIED IMMEDIATELY.
- ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING / REMOVAL.
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SITE PLAN.
- THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER ONE SET OF AS CONSTRUCTED SITE SERVICES AND GRADING DRAWINGS.
- BENCHMARKS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SITE BENCHMARK(S) HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION DEPICTED ON THIS PLAN.



Contractor shall check all dimensions on the work and report any discrepancy to the Landscape Architect before proceeding. All drawings and specifications are the property of the Landscape Architect and must be returned at the completion of the work. This drawing is not to be used for construction until signed by the Landscape Architect.

LEGEND

--- PROPERTY LINE
 --- DECORATIVE FENCE

PLANTING

+ DECIDUOUS STREET TREE (N.I.C.)
 ○ MEDIUM DECIDUOUS TREE
 ○ CONIFEROUS TREE
 ○ TREE FORMED SHRUB
 ○ DECIDUOUS SHRUB
 ○ CONIFEROUS SHRUB
 ○ ORNAMENTAL GRASSES
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SURFACING

▨ RIVER STONE
 ▨ UNIT PAVERS LIGHT DUTY PAVING
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AMENITIES

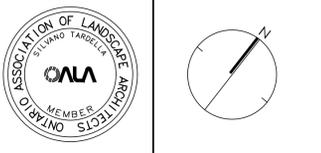
○ BIKE RACK
 ○ GRANITE SEATING BOULDERS

PLANT KEY

○ PLANT SPECIES
 ○ QUANTITY

8	ISSUED FOR FIFTH SUBMISSION	FEB 13/24
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Project
 BARRHAVEN TOWN CENTRE

Title
 LANDSCAPE PLAN

Date: OCTOBER 2023 Sheet:
 Scale: 1:200
 Drawn: EL
 Checked: SC
 Job No.: 21-195

- PLANTING NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF ALL SERVICES PRIOR TO ANY EXCAVATION.
 - LOCATIONS OF ALL PLANT MATERIALS TO BE STAKED BY THE CONTRACTOR AND VERIFIED IN THE FIELD BY LANDSCAPE ARCHITECT PRIOR TO THE EXCAVATION OF PITS.
 - ALL PLANT MATERIAL SHALL BE NURSERY GROWN STOCK UNLESS OTHERWISE NOTED.
 - DECIDUOUS TREES TO HAVE A MINIMUM 1800 CLEAR STEM ABOVE GRADE.
 - ALL PLANT MATERIAL SHALL BE WARRANTED FOR TWO YEARS FROM THE DATE OF PERFORMANCE ACCEPTANCE AS DETERMINED BY THE LANDSCAPE ARCHITECT.
 - ALL STEEL-BARS TO BE REMOVED AT THE ONE YEAR INTERIM INSPECTION UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.
 - CONTRACTOR TO MAKE GOOD ALL EXISTING AREAS DAMAGED BY HIS WORK TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
 - PERIODIC REVIEWS OF PLANTING SHALL BE CARRIED OUT BY THE LANDSCAPE ARCHITECT.
 - ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE AND ONLY AFTER APPROVAL OF THE LANDSCAPE ARCHITECT.
- SHRUB NOTES:**
- PLACE THE SHRUB AS UPRIGHT AS POSSIBLE, INCLUDING ON SLOPES.
 - PLANT SHRUBS AT THE PROPER DEPTH AS INDICATED ON THE DRAWINGS.

- PACK THE SOIL WELL AROUND THE PLANT BASE TO REMOVE AIR POCKETS, BUT DO NOT COMPACT SOIL. PRESS SOIL GENTLY BUT FIRMLY TO PREVENT SHOCKING THE ROOTS.
 - PLACE SPECIES ACCORDING TO THE QUANTITIES AND SPACING AS INDICATED ON THE DRAWINGS.
 - PLANT SHRUBS AT THE PROPER DEPTH THE ROOT COLLARS SHOULD BE AT GROUND LEVEL.
 - MULCH THE SOIL SURFACE AS INDICATED ON DRAWINGS.
 - WATER PLANTS THOROUGHLY FOLLOWING PLANTING.
 - REFER TO SPECIFICATIONS FOR MAINTENANCE REQUIREMENTS.
- SOD NOTES:**
- SODDED AREAS SHALL HAVE A MINIMUM 150mm TOPSOIL.
 - FIRM THE SOIL BY GENTLY TAMPING OR ROLLING THE TOPSOIL. DO NOT COMPACT THE SOIL. EXCESSIVE FORCE WILL DESTROY THE SOIL STRUCTURE AND INHIBIT GERMINATION.
 - CUT THE GRASS TO 50mm WHENEVER IT REACHES THE HEIGHT OF 70mm. REMOVE CLIPPINGS THAT WILL SMOTHER GRASS.
 - SODDED AREAS WILL BE ACCEPTED BY THE PROJECT MANAGER FOLLOWING PERFORMANCE ACCEPTANCE, PROVIDED:
 - TURF IS FREE OF DEAD SPOTS AND WEEDS.
 - NO SURFACE SOIL IS VISIBLE WHEN GRASS HAS BEEN CUT TO A HEIGHT OF 50mm
 - TURF AREAS HAVE BEEN CUT NO LESS THAN TWICE. THE LAST CUT BEING CARRIED OUT WITHIN 24 HOURS PRIOR TO THE ACCEPTANCE INSPECTION.

PLANT LIST A - STREET TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT. (mm)	ROOT
LARGE DECIDUOUS STREET TREES (10-15m)					
AF	4	ACER X FREEMANII	FREEMAN MAPLE	70	B&B
CCO	4	CARYA CORDIFORMIS	BITTERNUT HICKORY	70	B&B
FS	4	FAGUS SYLVATICA	CUCUMBER TREE	70	B&B
GB	4	GINKGO BILOBA	GINKGO	70	B&B
GS	2	GLEDITSIA TRIACANTHOS VAR. INERMIS	HONEYLOCUST	70	B&B
LD	4	GYMNOCLADUS DIOICUS	KENTUCKY COFFEE TREE	70	B&B
LT	4	LIRIODENDRON TULPIFERA	TULIP TREE	70	B&B
MAC	4	MAGNOLIA ACUMINATA	EUROPEAN BEECH	70	B&B
PD	4	POPULUS DELTOIDES	EASTERN COTTON WOOD	70	B&B
QM	4	QUERCUS MACROCARPA	BUR OAK	70	B&B
QP	4	QUERCUS PALUSTRIS	PIN OAK	70	B&B
QR	4	QUERCUS RUBRA	RED OAK	70	B&B
TT	4	TILIA TOMENTOSA	STERLING SILVER LINDEN	70	B&B
UL	4	ULMUS JAPONICA X WILSONIANA 'MORTON'	ACCOLADE ELM	70	B&B
UP	4	ULMUS PARVIFOLIA	LACEBARK ELM	70	B&B

PLANT LIST STREET TREES

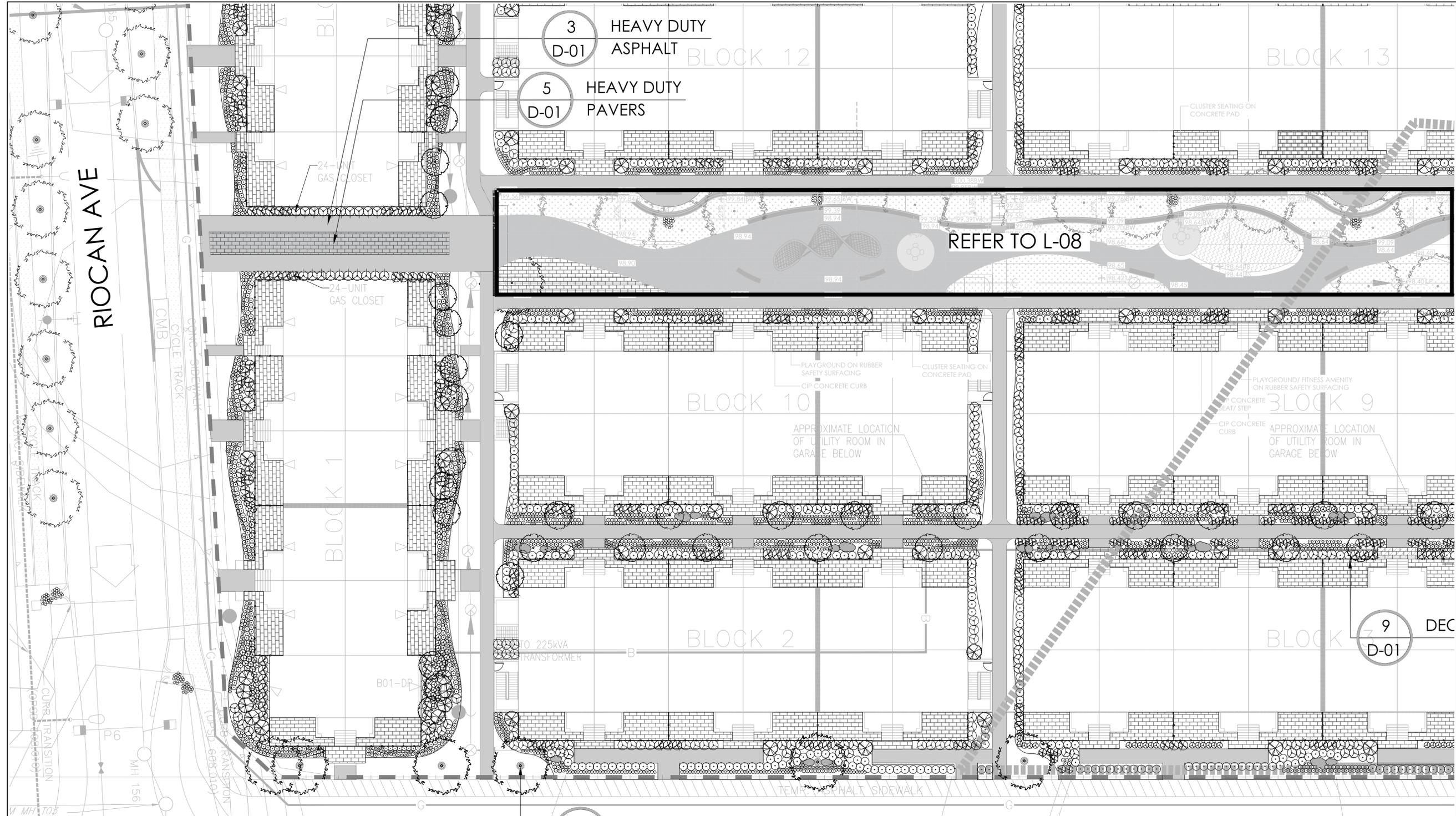
KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT. (mm)	ROOT
MEDIUM DECIDUOUS TREES (8-15m)					
AG	2	AESCULUS GLABRA	OHIO BUCKEYE	70mm	B&B
AR	4	ACER RUBRUM 'REDPOINTE'	REDPOINTE MAPLE	70mm	B&B
CC	4	CORYLUS COLURNA	TURKISH HAZEL	70mm	B&B
CO	4	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	4	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TM	4	TILIA MONGOLICA	MONGOLIAN LINDEN	70mm	B&B

PLANT LIST SITE PLAN

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT. (mm)	ROOT
MEDIUM DECIDUOUS TREES (10-15m)					
OH	6	AESCULUS GLABRA	OHIO BUCKEYE	70mm	B&B
AR	5	ACER RUBRUM 'REDPOINTE'	REDPOINTE MAPLE	70mm	B&B
CC	1	CORYLUS COLURNA	TURKISH HAZEL	70mm	B&B
CO	3	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	6	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TM	3	TILIA MONGOLICA	MONGOLIAN LINDEN	70mm	B&B
CONIFEROUS TREES (10-15m)					
JV	1	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	200cm	W&B
PB	1	PINUS BANKSIANA	JACK PINE	200cm	W&B
PP	2	PICEA PUNGENS 'HOOPSII'	HOOPSII BLUE SPRUCE	200cm	W&B
TREE FORMED SHRUBS					
AL	120	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	125cm	7 GAL.
DECIDUOUS SHRUBS					
Am	113	ARONIA MELANOCARPA	BLACK CHOKEBERRY	125cm	3 GAL.
Au	555	ARCTOSTAPHYLOS UVA-URSI 'VANCOUVER JADE'	VANCOUVER JADE BEARBERRY	25cm	3 GAL.
Cs	343	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE DOGWOOD	175cm	3 GAL.
Cs	574	COTONEASTER SALICIFOLIUS 'REPENS'	SPREADING WILLOWLEAF COTONEASTER	50cm	3 GAL.
Po	243	PHYSCALOPUS OPULIFOLIUS 'LITTLE DEVIL'	LITTLE DEVIL NINEBARK	125cm	3 GAL.
CONIFEROUS SHRUBS					
Pm	211	PINUS MUGO VAR. PUMILIO	DWARF MUGO VAR. PUMILIO	125cm	3 GAL.

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT. (mm)	ROOT
GRASSES					
ca	251	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER REED GRASS	150cm	1 GAL.
cb	338	CALAMAGROSTIS BRACHYTRICHA	AUTUMN FEATHER GRASS	125cm	1 GAL.
ers	536	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	50cm	1 GAL.
pv	238	PANICUM VIRGATUM	SWITCH GRASS	150cm	1 GAL.
sh	229	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	50cm	1 GAL.
sn	128	SORGHASTRUM NUTANS	INDIAN GRASS	150cm	1 GAL.
ss	43	SCHIZACHYRIUM SCOPARIUM 'BLUE PARADISE'	BLUE PARADISE LITTLE BLUE STEM	150cm	1 GAL.
PERENNIALS					
amt	384	ACHILLEA MILLEFOLIUM 'TERRACOTTA'	YARROW	50cm	1 GAL.
am	3167	ALLIUM X 'MILLENNIUM'	ORNAMENTAL ONION	50cm	1 GAL.
as	1381	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	50cm	1 GAL.
es	619	ECHINACEA X 'SOMBRERO' 'HOT COB'	CONEFLOWER	50cm	1 GAL.
gg	3196	GAILLARDIA X 'GRANDIFLORA' 'ARIZONA RED'	BLANKET FLOWER	30cm	1 GAL.
pa	122	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	60cm	1 GAL.
sa	1631	SEDUM ALBUM	CARPET STONE CROP	5cm	1 GAL.
st	2413	SEDUM TELEPHIUM 'MATRONA'	STONECROP	60cm	1 GAL.

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LEGEND

- PROPERTY LINE
- DECORATIVE FENCE

PLANTING

- DECIDUOUS STREET TREE (N.I.C.)
- MEDIUM DECIDUOUS TREE
- CONIFEROUS TREE
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AMENITIES

- BIKE RACK
- GRANITE SEATING BOULDERS

PLANT KEY

- PLANT SPECIES
- QUANTITY

8	ISSUED FOR FIFTH SUBMISSION	FEB 13/24
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BARRHAVEN TOWN CENTRE
Title
LANDSCAPE PLAN

Date: OCTOBER 2023
Scale: 1:200
Drawn: EL
Checked: SC
Job No.: 21-195

Sheet
L-03

- PLANTING NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF ALL SERVICES PRIOR TO ANY EXCAVATION.
 - LOCATIONS OF ALL PLANT MATERIALS TO BE STAKED BY THE CONTRACTOR AND VERIFIED IN THE FIELD BY LANDSCAPE ARCHITECT PRIOR TO THE EXCAVATION OF PITS.
 - ALL PLANT MATERIAL SHALL BE NURSERY GROWN STOCK UNLESS OTHERWISE NOTED.
 - DECIDUOUS TREES TO HAVE A MINIMUM 1800 CLEAR STEM ABOVE GRADE.
 - ALL PLANT MATERIAL SHALL BE WARRANTED FOR TWO YEARS FROM THE DATE OF PERFORMANCE ACCEPTANCE AS DETERMINED BY THE LANDSCAPE ARCHITECT.
 - ALL STEEL T-BARS TO BE REMOVED AT THE ONE YEAR INTERIM INSPECTION UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.
 - CONTRACTOR TO MAKE GOOD ALL EXISTING AREAS DAMAGED BY HIS WORK TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
 - PERIODIC REVIEWS OF PLANTING SHALL BE CARRIED OUT BY THE LANDSCAPE ARCHITECT.
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- SHRUB NOTES:**
- PLACE THE SHRUB AS UPRIGHT AS POSSIBLE, INCLUDING ON SLOPES.
 - PLANT SHRUBS AT THE PROPER DEPTH AS INDICATED ON THE DRAWINGS.

- PACK THE SOIL WELL AROUND THE PLANT BASE TO REMOVE AIR POCKETS, BUT DO NOT COMPACT SOIL. PRESS SOIL GENTLY BUT FIRMLY TO PREVENT SHOCKING THE ROOTS.
 - PLACE SPECIES ACCORDING TO THE QUANTITIES AND SPACING AS INDICATED ON THE DRAWINGS.
 - PLANT SHRUBS AT THE PROPER DEPTH THE ROOT COLLARS SHOULD BE AT GROUND LEVEL.
 - MULCH THE SOIL SURFACE AS INDICATED ON DRAWINGS.
 - WATER PLANTS THOROUGHLY FOLLOWING PLANTING.
 - REFER TO SPECIFICATIONS FOR MAINTENANCE REQUIREMENTS.
- SOD NOTES:**
- SODDED AREAS SHALL HAVE A MINIMUM 150mm TOPSOIL.
 - FIRM THE SOIL BY GENTLY TAMPING OR ROLLING THE TOPSOIL. DO NOT COMPACT THE SOIL. EXCESSIVE FORCE WILL DESTROY THE SOIL STRUCTURE AND INHIBIT GERMINATION.
 - CUT THE GRASS TO 50mm WHENEVER IT REACHES THE HEIGHT OF 70mm. REMOVE CLIPPINGS THAT WILL SMOTHER GRASS.
 - SODDED AREAS WILL BE ACCEPTED BY THE PROJECT MANAGER FOLLOWING PERFORMANCE ACCEPTANCE. PROVIDED:
 - SODDED AREAS ARE PROPERLY ESTABLISHED.
 - TURF IS FREE OF DEAD SPOTS AND WEEDS.
 - NO SURFACE SOIL IS VISIBLE WHEN GRASS HAS BEEN CUT TO A HEIGHT OF 50mm
 - TURF AREAS HAVE BEEN CUT NO LESS THAN TWICE, THE LAST CUT BEING CARRIED OUT WITHIN 24 HOURS PRIOR TO THE ACCEPTANCE INSPECTION.

PLANT LIST A - STREET TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
LARGE DECIDUOUS STREET TREES (1.5-30m)					
AF	4	ACER X FREEMANNI	FREEMAN MAPLE	70	B&B
CCO	4	CARYA CORNIFORMIS	BITTERNUT HICKORY	70	B&B
FS	4	FAGUS SYLVATICA	CUCUMBER TREE	70	B&B
GB	4	GINKGO BILOBA	GINKGO	70	B&B
GS	2	GLEDITSIA TRIACANTHOS VAR. INERMIS	HONEYLOCUST	70	B&B
GD	4	GYMNOCLADUS DIOXIS	KENTUCKY COFFEE TREE	70	B&B
LT	4	LIRIODENDRON TULIPIFERA	TULIP TREE	70	B&B
MAC	4	MAGNOLIA ACUMINATA	EUROPEAN BEECH	70	B&B
PD	4	POPULUS DELTOIDES	EASTERN COTTON WOOD	70	B&B
QM	4	QUERCUS MACROCARPA	BUR OAK	70	B&B
QP	4	QUERCUS PALustris	PIN OAK	70	B&B
QR	4	QUERCUS RUBRA	RED OAK	70	B&B
TT	4	TILIA TOMENTOSA	STERLING SILVER LINDEN	70	B&B
UL	4	ULMUS JAPONICA X WILSONIANA 'MORTON'	ACCOLADE ELM	70	B&B
UP	4	ULMUS PARVIFLORA	LACEBARK ELM	70	B&B

PLANT LIST STREET TREES

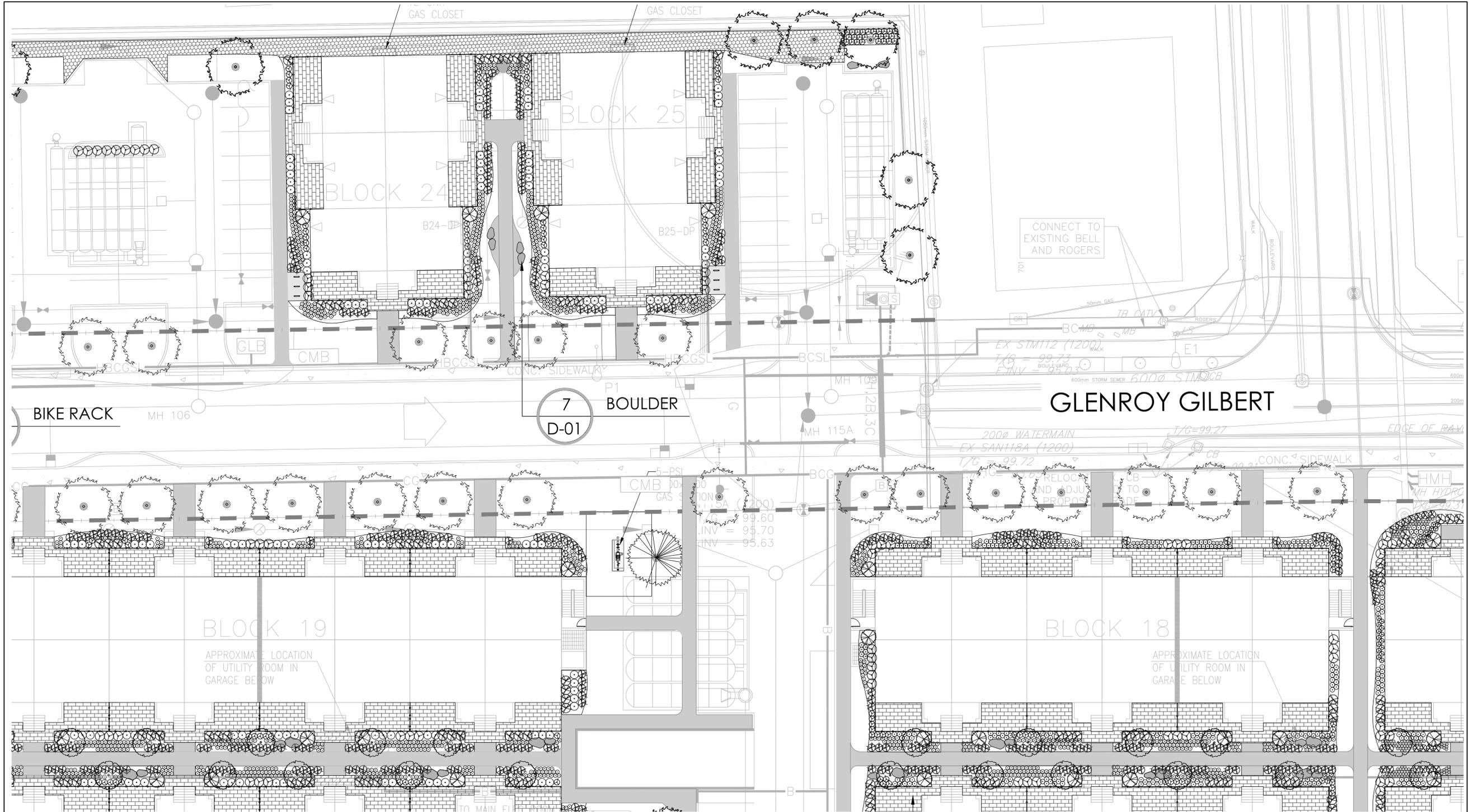
KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (8-15m)					
AG	2	AESCULUS GLABRA	OHIO BUCKEYE	70mm	B&B
AR	4	ACER RUBRUM 'REDPOINTE'	REDPOINTE MAPLE	70mm	B&B
CC	4	CORYLIUS COLLURNA	TURKISH HAZEL	70mm	B&B
CO	4	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	4	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TM	4	TILIA MONGOLICA	MONGOLIAN LINDEN	70mm	B&B

PLANT LIST SITE PLAN

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (10-15m)					
AG	6	AESCULUS GLABRA	OHIO BUCKEYE	70mm	B&B
AR	5	ACER RUBRUM 'REDPOINTE'	REDPOINTE MAPLE	70mm	B&B
CC	1	CORYLIUS COLLURNA	TURKISH HAZEL	70mm	B&B
CO	3	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	6	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TM	3	TILIA MONGOLICA	MONGOLIAN LINDEN	70mm	B&B
CONIFEROUS TREES (10-15m)					
JV	1	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	200cm	W&B
PB	1	PINUS BANKSIANA	BLACK PINE	200cm	W&B
PP	2	PICEA PUNGENS 'HOOPSII'	JACK PINE	200cm	W&B
TREE FORMED SHRUBS					
AI	120	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	125cm	7 GAL
DECIDUOUS SHRUBS					
Am	113	ARONIA MELANOCARPA	BLACK CHOKEBERRY	125cm	3 GAL
Au	555	ARCTOSTAPHYLOS UVA-URSI 'VANCOUVER JADE'	VANCOUVER JADE BEARBERRY	25cm	3 GAL
Cs	343	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE DOGWOOD	175cm	3 GAL
Cs	574	COTONEASTER SALICIFOLIUS 'REPENS'	SPREADING WILLOWLEAF COTONEASTER	50cm	3 GAL
Po	243	PHYSOCARPUS OPULIFOLIUS 'LITTLE DEVIL'	LITTLE DEVIL NINEBARK	125cm	3 GAL
CONIFEROUS SHRUBS					
Pm	211	PRINUS MUGO VAR. PUMILIO	DWARF MUGO VAR. PUMILIO	125cm	3 GAL

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
GRASSES					
cb	251	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER REED GRASS	150cm	1 GAL
cb	338	CALAMAGROSTIS BRACHYTRICHA	AUTUMN FEATHER GRASS	125cm	1 GAL
ers	536	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	50cm	1 GAL
pv	238	PANICUM VIRGATUM	SWITCH GRASS	150cm	1 GAL
sh	229	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPPED	50cm	1 GAL
sn	128	SORGHASTRUM NUTANS	INDIAN GRASS	150cm	1 GAL
ss	43	SHIZACHYRIUM SCOPARIUM 'BLUE PARADISE'	BLUE PARADISE LITTLE BLUE STEM	150cm	1 GAL
PERENNIALS					
amt	384	ACHILLEA MILLEFOLIUM 'TERRACOTTA'	'YARROW	50cm	1 GAL
am	3167	ALLIUM 'MILLENNIUM'	ORNAMENTAL ONION	50cm	1 GAL
as	1381	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	50cm	1 GAL
es	619	ECHINACEA X SOMBRERO 'HOT CORA'	CONEFLOWER	60cm	1 GAL
gg	3196	GALLIARDA X GRANDIFLORA 'ARIZONA RED'	BLANKET FLOWER	30cm	1 GAL
ps	122	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	60cm	1 GAL
sa	1631	SEDUM ALBUM	CARPET STONE CROP	5cm	1 GAL
st	2413	SEDUM TELEPHIUM 'MATRONA'	STONECROP	60cm	1 GAL

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LEGEND

--- PROPERTY LINE
 --- DECORATIVE FENCE

PLANTING

+ DECIDUOUS STREET TREE (N.I.C.)
 ○ MEDIUM DECIDUOUS TREE
 ○ CONIFEROUS TREE
 ○ TREE FORMED SHRUB
 ○ DECIDUOUS SHRUB
 ○ CONIFEROUS SHRUB
 ○ ORNAMENTAL GRASSES
 ○ PERENNIALS

SURFACING

▨ RIVER STONE
 ▨ UNIT PAVERS LIGHT DUTY PAVING
 ▨ UNIT PAVERS HEAVY DUTY PAVING
 ▨ CIP CONCRETE LIGHT DUTY PAVING
 ▨ ASPHALT LIGHT DUTY PAVING

AMENITIES

— BIKE RACK
 ○ GRANITE SEATING BOULDERS

PLANT KEY

□ PLANT SPECIES
 □ QUANTITY

8	ISSUED FOR FIFTH SUBMISSION	FEB 13/24
7	ISSUED FOR THIRD SUBMISSION	OCT 13/23
6	RE-ISSUED FOR SECOND SUBMISSION	JUN 30/23
5	RE-ISSUED FOR SECOND SUBMISSION	MAY 31/23
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3	ISSUED FOR FIRST SUBMISSION	JUN 30/22
2	ISSUED FOR CLIENT REVIEW	JUN 10/22
1	ISSUED FOR CLIENT REVIEW	MAY 16/22

Revision
 City Approval Stamp

- PLANTING NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF ALL SERVICES PRIOR TO ANY EXCAVATION.
 - LOCATIONS OF ALL PLANT MATERIALS TO BE STAKED BY THE CONTRACTOR AND VERIFIED IN THE FIELD BY LANDSCAPE ARCHITECT PRIOR TO THE EXCAVATION OF PITS.
 - ALL PLANT MATERIAL SHALL BE NURSERY GROWN STOCK UNLESS OTHERWISE NOTED.
 - DECIDUOUS TREES TO HAVE A MINIMUM 1800 CLEAR STEM ABOVE GRADE.
 - ALL PLANT MATERIAL SHALL BE WARRANTED FOR TWO YEARS FROM THE DATE OF PERFORMANCE ACCEPTANCE AS DETERMINED BY THE LANDSCAPE ARCHITECT.
 - ALL STEEL T-BARS TO BE REMOVED AT THE ONE YEAR INTERIM INSPECTION UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.
 - CONTRACTOR TO MAKE GOOD ALL EXISTING AREAS DAMAGED BY HIS WORK TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
 - PERIODIC REVIEWS OF PLANTING SHALL BE CARRIED OUT BY THE LANDSCAPE ARCHITECT.
 - ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE AND ONLY AFTER APPROVAL OF THE LANDSCAPE ARCHITECT.
- SHRUB NOTES:**
- PLACE THE SHRUB AS UPRIGHT AS POSSIBLE, INCLUDING ON SLOPES.
 - PLANT SHRUBS AT THE PROPER DEPTH AS INDICATED ON THE DRAWINGS.

- PACK THE SOIL WELL AROUND THE PLANT BASE TO REMOVE AIR POCKETS, BUT DO NOT COMPACT SOIL. PRESS SOIL GENTLY BUT FIRMLY TO PREVENT SHOCKING THE ROOTS.
 - PLACE SPECIES ACCORDING TO THE QUANTITIES AND SPACING AS INDICATED ON THE DRAWINGS.
 - PLANT SHRUBS AT THE PROPER DEPTH THE ROOT COLLARS SHOULD BE AT GROUND LEVEL.
 - MULCH THE SOIL SURFACE AS INDICATED ON DRAWINGS.
 - WATER PLANTS THOROUGHLY FOLLOWING PLANTING.
 - REFER TO SPECIFICATIONS FOR MAINTENANCE REQUIREMENTS.
- SODDING NOTES:**
- SODDED AREAS SHALL HAVE A MINIMUM 150mm TOPSOIL.
 - FIRM THE SOIL BY GENTLY TAMPING OR ROLLING THE TOPSOIL. DO NOT COMPACT THE SOIL. EXCESSIVE FORCE WILL DESTROY THE SOIL STRUCTURE AND INHIBIT GERMINATION.
 - CUT THE GRASS TO 50mm WHENEVER IT REACHES THE HEIGHT OF 70mm. REMOVE CLIPPINGS THAT WILL SMOTHER GRASS.
 - SODDED AREAS WILL BE ACCEPTED BY THE PROJECT MANAGER FOLLOWING PERFORMANCE ACCEPTANCE PROVIDED:
 - SEEDED AREAS ARE PROPERLY ESTABLISHED.
 - TURF IS FREE OF DEAD SPOTS AND WEEDS.
 - NO SURFACE SOIL IS VISIBLE WHEN GRASS HAS BEEN CUT TO A HEIGHT OF 50mm.
 - TURF AREAS HAVE BEEN CUT NO LESS THAN TWICE, THE LAST CUT BEING CARRIED OUT WITHIN 24 HOURS PRIOR TO THE ACCEPTANCE INSPECTION.

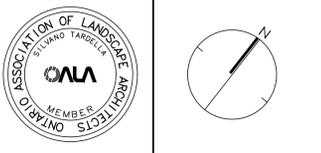
PLANT LIST A - STREET TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL./HT.	ROOT
LARGE DECIDUOUS STREET TREES (15-30m)					
AF	4	ACER X FREEMANII	FREEMAN MAPLE	70	B&B
CCO	4	CARYA CORDOFORMIS	BITTERNUT HICKORY	70	B&B
FS	4	FAGUS SYLVATICA	CLIMBER TREE	70	B&B
GB	4	GINKGO BILOBA	GINKGO	70	B&B
GS	2	GLEDITSIA TRIACANTHOS VAR. INERMIS	HONEYLOCUST	70	B&B
GD	4	GYMNOCLADUS DIOICIS	KENTUCKY COFFEE TREE	70	B&B
LT	4	LIRIODENDRON TULPIFERA	TULIP TREE	70	B&B
MAC	4	MAGNOLIA ACUMINATA	EUROPEAN BEECH	70	B&B
PD	4	POPULUS DELTOIDES	EASTERN COTTON WOOD	70	B&B
QM	4	QUERCUS MACROCARPA	BUR OAK	70	B&B
QP	4	QUERCUS PALUSTRIS	PIN OAK	70	B&B
QR	4	QUERCUS RUBRA	RED OAK	70	B&B
TT	4	TILIA TOMENTOSA	STERLING SILVER LINDEN	70	B&B
UL	4	ULMUS JAPONICA X WILSONIANA 'MORTON'	ACCOLADE ELM	70	B&B
UP	4	ULMUS PARVIFOLIA	LACEBARK ELM	70	B&B
PLANT LIST STREET TREES					
KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL./HT.	ROOT
MEDIUM DECIDUOUS TREES (8-15m)					
AG	2	AESCULUS GLABRA	OHIO BUCKEYE	70mm	B&B
AR	4	ACER RUBRUM 'REDPOINTE'	REDPOINTE MAPLE	70mm	B&B
CC	4	CORYLUS COLURNA	TURKISH HAZEL	70mm	B&B
CO	4	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	4	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TM	4	TILIA MONGOLICA	MONGOLIAN LINDEN	70mm	B&B

PLANT LIST SITE PLAN

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL./HT.	ROOT
MEDIUM DECIDUOUS TREES (10-15m)					
AG	6	AESCULUS GLABRA	OHIO BUCKEYE	70mm	B&B
AR	5	ACER RUBRUM 'REDPOINTE'	REDPOINTE MAPLE	70mm	B&B
CC	1	CORYLUS COLURNA	TURKISH HAZEL	70mm	B&B
CO	3	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	6	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TM	3	TILIA MONGOLICA	MONGOLIAN LINDEN	70mm	B&B
CONIFEROUS TREES (10-15m)					
JV	1	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	200cm	W&B
PB	1	PINUS BANKSIANA	JACK PINE	200cm	W&B
PP	2	PICEA PUNGENS 'HOOPSII'	HOOPSII BLUE SPRUCE	200cm	W&B
TREE FORMED SHRUBS					
AI	120	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	125cm	7 GAL.
DECIDUOUS SHRUBS					
ART	113	ARONIA MELANOCARPA	BLACK CHOKEBERRY	125cm	3 GAL.
Au	555	ARCTOSTAPHYLOS UVA-URSI 'VANCOUVER JADE'	VANCOUVER JADE BEARBERRY	25cm	3 GAL.
CS	343	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE DOGWOOD	175cm	3 GAL.
Csr	374	COTONEASTER SALICIFOLIUS 'REPENS'	SPREADING WILLOWLEAF COTONEASTER	50cm	3 GAL.
Po	243	PHYSCARPUS OPUULIFOLIUS 'LITTLE DEVIL'	LITTLE DEVIL NINEBARK	125cm	3 GAL.
CONIFEROUS SHRUBS					
Pm	211	PINUS MUGO VAR. PUMILIO	DWARF MUGO VAR. PUMILIO	125cm	3 GAL.

GRASSES	PERENNIALS
ca 251 CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	amit 384 ACHILLEA MILLEFOLIUM 'TERRACOTTA'
cb 338 CALAMAGROSTIS BRACHYTRICHA	am 3167 ALLIUM 'X MILLENIUM'
ers 536 ERAGROSTIS SPECTABILIS	as 1381 ASTER NOVAE-ANGLIAE 'PURPLE DOME'
pv 238 PANICUM VIRGATUM	es 619 ECHINACEA X SOMBRERO 'HOT CORA'
sh 229 SPOROBOLUS HETEROLEPIS	gg 3196 GALLARDA X GRANDIFLORA 'ARIZONA RED'
sn 128 SORGHASTRUM NUTANS	ja 122 PEROVSKIA ATRIPLICIFOLIA
ss 43 SCHIZACHYRIUM SCOPARIUM 'BLUE PARADISE'	sa 1631 SEDUM ALBUM
	st 2413 SEDUM TELEPHIUM 'MATRONA'
	YARROW ORNAMENTAL ONION NEW ENGLAND ASTER CONEFLOWER BLANKET FLOWER RUSSIAN SAGE CARPET STONE CROP STONECROP
	150cm 1 GAL.
	125cm 1 GAL.
	50cm 1 GAL.
	150cm 1 GAL.
	50cm 1 GAL.
	150cm 1 GAL.
	150cm 1 GAL.
	50cm 1 GAL.
	50cm 1 GAL.
	30cm 1 GAL.
	60cm 1 GAL.
	5cm 1 GAL.
	60cm 1 GAL.



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 design strategies
 1285 WELLINGTON STREET WEST, OTTAWA, ON K1Y 3A8 CANADA
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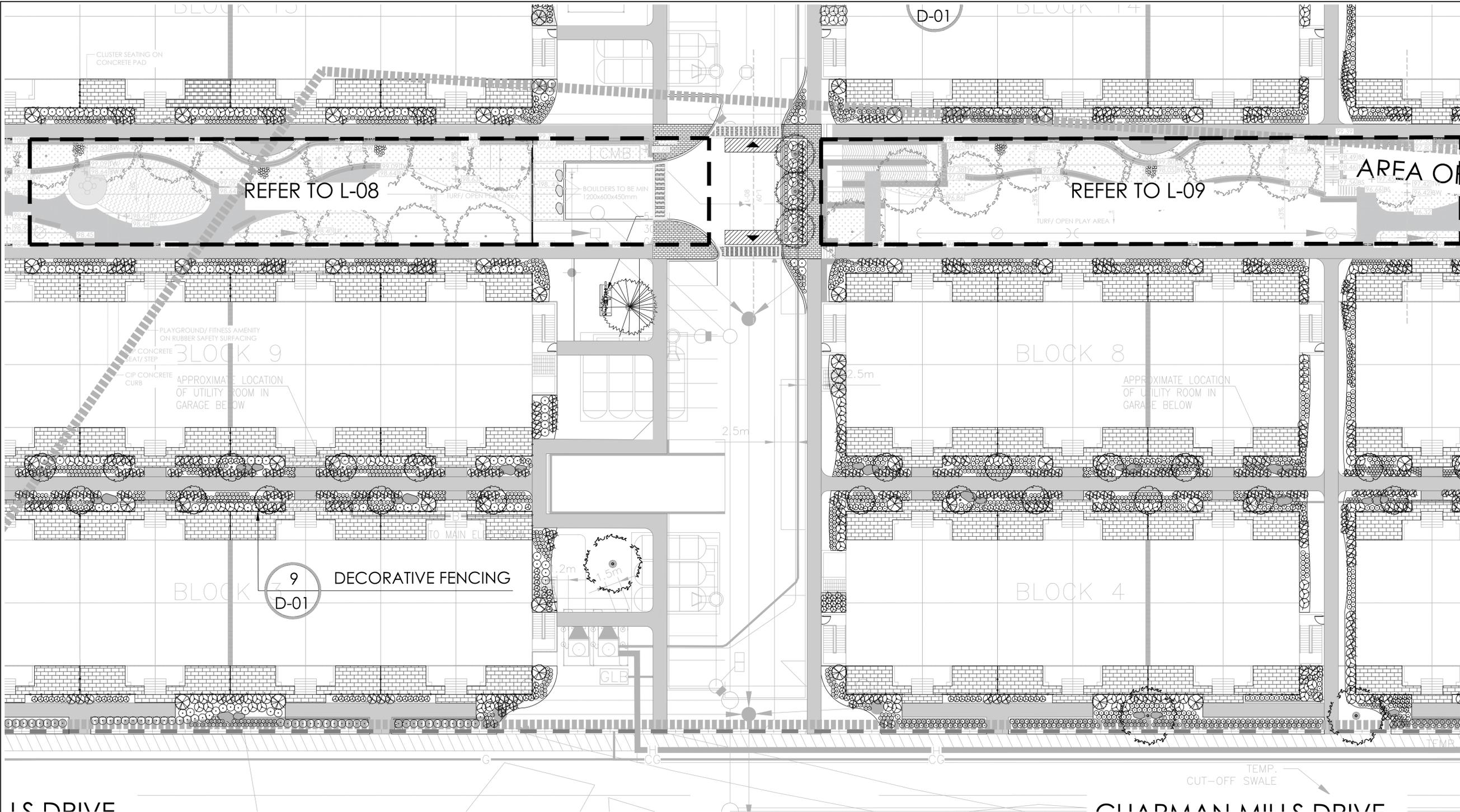


BARRHAVEN TOWN CENTRE

Title
 LANDSCAPE PLAN

Date OCTOBER 2023 Sheet
 Scale 1:200
 Drawn EL
 Checked SC
 Job No. 21-195

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LEGEND

PROPERTY LINE
DECORATIVE FENCE

PLANTING

- DECIDUOUS STREET TREE (N.I.C.)
- MEDIUM DECIDUOUS TREE
- CONIFEROUS TREE
- TREE FORMED SHRUB
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- ORNAMENTAL GRASSES
- PERENNIALS

SURFACING

- RIVER STONE
- UNIT PAVERS LIGHT DUTY PAVING
- UNIT PAVERS HEAVY DUTY PAVING
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- ASPHALT LIGHT DUTY PAVING

AMENITIES

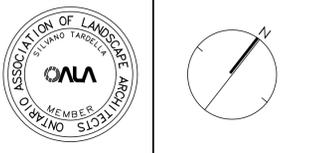
- BIKE RACK
- GRANITE SEATING BOULDERS

PLANT KEY

- PLANT SPECIES
- QUANTITY

8	ISSUED FOR FIFTH SUBMISSION	FEB 13/24
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Revision
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NAK design strategies
1285 WELLINGTON STREET WEST, OTTAWA, ON K1Y 3A8 CANADA
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minto Communities
Project

BARRHAVEN TOWN CENTRE

Title
LANDSCAPE PLAN

Date	OCTOBER 2023	Sheet	L-05
Scale	1:200		
Drawn	EL		
Checked	SC		
Job No.	21-195		

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PLANT LIST A - STREET TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
LARGE DECIDUOUS STREET TREES (15-30m)					
AF	4	ACER X FREEMANI	FREEMAN MAPLE	70	B&B
CCO	4	CARYA CORDIFORMIS	BITTERNUT HICKORY	70	B&B
FS	4	FAGUS SYLVATICA	CUCUMBER TREE	70	B&B
GS	4	GINKGO BILOBA	GINKGO	70	B&B
CS	2	GLEDITSIA TRIACANTHOS VAR. INERMIS	HONEYLOCUST	70	B&B
GD	4	GYMNOCALADUS DIOICUS	KENTUCKY COFFEE TREE	70	B&B
LT	4	LIRIODENDRON TULIPIFERA	TULIP TREE	70	B&B
MAC	4	MAACKIA ACUMINATA	AMUR MAAKIA	70	B&B
PD	4	POPULUS DELTOIDES	EASTERN COTTON WOOD	70	B&B
QM	4	QUERCUS MAACROCARPA	BUR OAK	70	B&B
QP	4	QUERCUS PALustris	PIN OAK	70	B&B
QR	4	QUERCUS RUBRA	RED OAK	70	B&B
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UL	4	ULMUS JAPONICA X WILSONIANA 'MORTON'	ACCOLADE ELM	70	B&B
UP	4	ULMUS PARVIFLOIA	LACEBARK ELM	70	B&B

PLANT LIST STREET TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (8-15m)					
AG	2	ASCULUS GLABRA	OHIO BUCKEYE	70mm	B&B
AR	4	ACER RUBRUM 'REDPOINTE'	REDPOINTE MAPLE	70mm	B&B
CC	4	CORYLUS COLURNA	TURKISH HAZEL	70mm	B&B
CO	4	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	4	MAACKIA AMURENSIS	AMUR MAAKIA	70mm	B&B
TM	4	TILIA MONGOLICA	MONGOLIAN LINDEN	70mm	B&B

PLANT LIST SITE PLAN

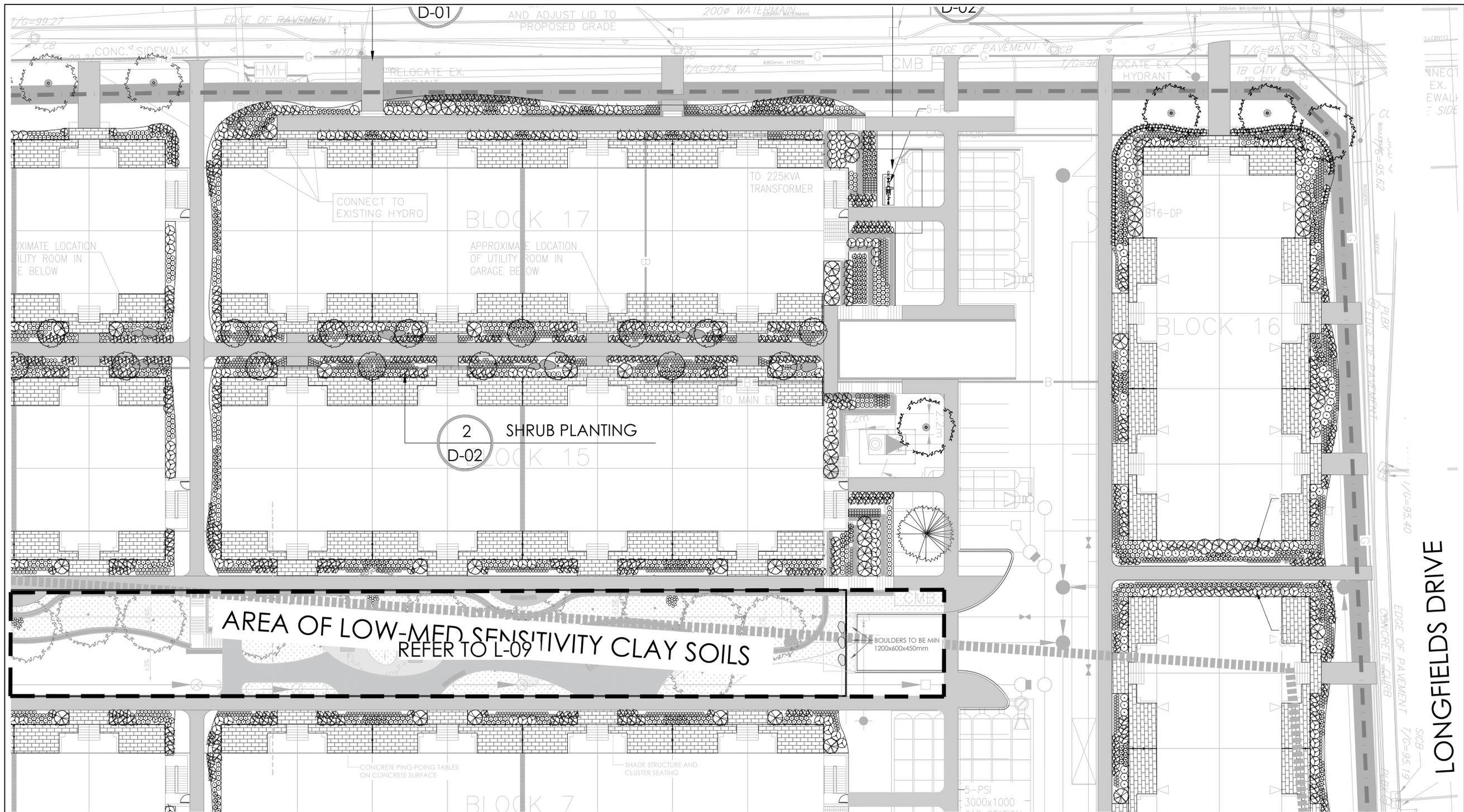
KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (10-15m)					
AG	6	ASCULUS GLABRA	OHIO BUCKEYE	70mm	B&B
AR	5	ACER RUBRUM 'REDPOINTE'	REDPOINTE MAPLE	70mm	B&B
CC	1	CORYLUS COLURNA	TURKISH HAZEL	70mm	B&B
CO	3	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	6	MAACKIA AMURENSIS	AMUR MAAKIA	70mm	B&B
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CONIFEROUS TREES (10-15m)					
JV	1	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	200cm	W&B
PB	1	PINUS BANKSIANA	JACK PINE	200cm	W&B
PP	2	PICEA PUNGENS 'HOOPSII'	HOOPSII BLUE SPRUCE	200cm	W&B
TREE FORMES SHRUBS					
AI	120	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	125cm	7 GAL.
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Am	113	ARONIA MELANOCARPA	BLACK CHOKEBERRY	125cm	3 GAL.
Au	555	ARCTOSTAPHYLOS UVA-URSI 'VANCOUVER JADE'	VANCOUVER JADE BEARBERRY	25cm	3 GAL.
Cs	343	CORYLUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE DOGWOOD	175cm	3 GAL.
Csr	574	COTONEASTER SALICIFOLIUS 'REPENS'	SPREADING WILLOWLEAF COTONEASTER	50cm	3 GAL.
Po	243	PHYSOCARPUS OPULOFOLIUS 'LITTLE DEVIL'	LITTLE DEVIL NINEBARK	125cm	3 GAL.
CONIFEROUS SHRUBS					
Pm	211	PINUS MUGO VAR. PUMILIO	DWARF MUGO VAR. PUMILIO	125cm	3 GAL.

GRASSES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
ca	251	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER REED GRASS	150cm	1 GAL.
cb	338	CALAMAGROSTIS BRACHYTRICHA	AUTUMN FEATHER GRASS	125cm	1 GAL.
ers	536	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	50cm	1 GAL.
pv	238	PANICUM VIRGATUM	SWITCH GRASS	150cm	1 GAL.
sh	229	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSSEED	50cm	1 GAL.
sn	128	SORGHASTRUM NUTANS	INDIAN GRASS	150cm	1 GAL.
ss	43	SCHIZACHYRIUM SCOPARIUM 'BLUE PARADISE'	BLUE PARADISE LITTLE BLUE STEM	150cm	1 GAL.

PERENNIALS

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
am	384	ACHILLEA MILLEFOLIUM 'TERRACOTTA'	YARROW	50cm	1 GAL.
as	3167	ALLIUM X 'MILLENIUM'	ORNAMENTAL ONION	50cm	1 GAL.
as	1381	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	50cm	1 GAL.
es	619	ECHINACEA X SOMNERO 'HOT CORN'	CORNERLOWER	60cm	1 GAL.
ga	3196	GALLIARDA X GRANDIFLORA 'ARIZONA RED'	BLANKET FLOWER	30cm	1 GAL.
pa	122	PEROVSKIA ATRIPICIFOLIA	RUSSIAN SAGE	60cm	1 GAL.
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st	2413	SEDUM TELEPHIUM 'MATRONA'	STONECROP	60cm	1 GAL.



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LEGEND

PROPERTY LINE
DECORATIVE FENCE

PLANTING

- DECIDUOUS STREET TREE (N.I.C.)
- MEDIUM DECIDUOUS TREE
- CONIFEROUS TREE
- TREE FORMED SHRUB
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- ORNAMENTAL GRASSES
- PERENNIALS

SURFACING

- RIVER STONE
- UNIT PAVERS LIGHT DUTY PAVING
- UNIT PAVERS HEAVY DUTY PAVING
- CIP CONCRETE LIGHT DUTY PAVING
- ASPHALT LIGHT DUTY PAVING

AMENITIES

- BIKE RACK
- GRANITE SEATING BOULDERS

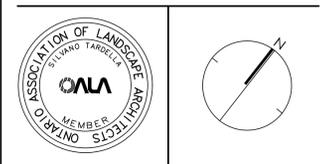
PLANT KEY

- PLANT SPECIES
- QUANTITY

REVISIONS

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7	ISSUED FOR THIRD SUBMISSION	OCT 13/23
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BARRHAVEN TOWN CENTRE

Title
LANDSCAPE PLAN

Date OCTOBER 2023 Sheet
Scale 1:200
Drawn EL
Checked SC
Job No. 21-195

L-06

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- CONTRACTOR TO VERIFY LOCATION OF ALL SERVICES PRIOR TO ANY EXCAVATION.
 - LOCATIONS OF ALL PLANT MATERIALS TO BE STAKED BY THE CONTRACTOR AND VERIFIED IN THE FIELD BY LANDSCAPE ARCHITECT PRIOR TO THE EXCAVATION OF PITS.
 - ALL PLANT MATERIAL SHALL BE NURSERY GROWN STOCK UNLESS OTHERWISE NOTED.
 - DECIDUOUS TREES TO HAVE A MINIMUM 1800 CLEAR STEM ABOVE GRADE.
 - ALL PLANT MATERIAL SHALL BE WARRANTED FOR TWO YEARS FROM THE DATE OF PERFORMANCE ACCEPTANCE AS DETERMINED BY THE LANDSCAPE ARCHITECT.
 - ALL STEEL T-BARS TO BE REMOVED AT THE ONE YEAR INTERIM INSPECTION UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.
 - CONTRACTOR TO MAKE GOOD ALL EXISTING AREAS DAMAGED BY HIS WORK TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
 - PERIODIC REVIEWS OF PLANTING SHALL BE CARRIED OUT BY THE LANDSCAPE ARCHITECT.
 - ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE AND ONLY AFTER APPROVAL OF THE LANDSCAPE ARCHITECT.

- SHRUB NOTES:**
- PLACE THE SHRUB AS UPRIGHT AS POSSIBLE, INCLUDING ON SLOPES.
 - PLANT SHRUBS AT THE PROPER DEPTH AS INDICATED ON THE DRAWINGS.

- PACK THE SOIL WELL AROUND THE PLANT BASE TO REMOVE AIR POCKETS, BUT DO NOT COMPACT SOIL. PRESS SOIL GENTLY BUT FIRMLY TO PREVENT SHOCKING THE ROOTS.
- PLACE SPECIES ACCORDING TO THE QUANTITIES AND SPACING AS INDICATED ON THE DRAWINGS.
- PLANT SHRUBS AT THE PROPER DEPTH THE ROOT COLLARS SHOULD BE AT GROUND LEVEL.
- MULCH THE SOIL SURFACE AS INDICATED ON DRAWINGS.
- WATER PLANTS THOROUGHLY FOLLOWING PLANTING.
- REFER TO SPECIFICATIONS FOR MAINTENANCE REQUIREMENTS.

- SOD NOTES:**
- SODDED AREAS SHALL HAVE A MINIMUM 150mm TOPSOIL.
 - FIRM THE SOIL BY GENTLY TAMPING OR ROLLING THE TOPSOIL. DO NOT COMPACT THE SOIL. EXCESSIVE FORCE WILL DESTROY THE SOIL STRUCTURE AND INHIBIT GERMINATION.
 - CUT THE GRASS TO 50mm WHENEVER IT REACHES THE HEIGHT OF 70mm, REMOVE CLIPPINGS THAT WILL SMOTHER GRASS.
 - SODDED AREAS WILL BE ACCEPTED BY THE PROJECT MANAGER FOLLOWING PERFORMANCE ACCEPTANCE, PROVIDED:
 - SEEDED AREAS ARE PROPERLY ESTABLISHED.
 - TURF IS FREE OF DEAD SPOTS AND WEEDS.
 - NO SURFACE SOIL IS VISIBLE WHEN GRASS HAS BEEN CUT TO A HEIGHT OF 50mm
 - TURF AREAS HAVE BEEN CUT NO LESS THAN TWICE, THE LAST CUT BEING CARRIED OUT WITHIN 24 HOURS PRIOR TO THE ACCEPTANCE INSPECTION.

PLANT LIST A - STREET TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
LARGE DECIDUOUS STREET TREES (10-30m)					
AF	4	ACER X FRESZIANI	FREEMAN MAPLE	70	B&B
CCO	4	CARYA CORDIFORMIS	BITERNUT HICKORY	70	B&B
FS	4	FAGUS SYLVATICA	CUCUMBER TREE	70	B&B
GB	4	GINKGO BILOBA	GINKGO	70	B&B
CS	2	GLEDITSIA TRIACANTHOS VAR. INERMIS	HONEYLOCUST	70	B&B
GD	4	GYMNOCLADUS DIOICUS	KENTUCKY COFFEE TREE	70	B&B
LT	4	LIRIODENDRON TULIPIFERA	TULIP TREE	70	B&B
MAC	4	MACHONJA ACUMINATA	EUROPEAN BEECH	70	B&B
PD	4	POPULUS DELTOIDES	EASTERN COTTON WOOD	70	B&B
QM	4	QUERCUS MACROCARPA	BUR OAK	70	B&B
QP	4	QUERCUS PALUSTRIS	PIN OAK	70	B&B
QR	4	QUERCUS RUBRA	RED OAK	70	B&B
IT	4	TILIA TOMENTOSA	STERLING SILVER LINDEN	70	B&B
UL	4	ULMUS JAPONICA X WILSONIANA 'MORTON'	ACCOLADE ELM	70	B&B
UP	4	ULMUS PARVIFOLIA	LACEBARK ELM	70	B&B

PLANT LIST STREET TREES

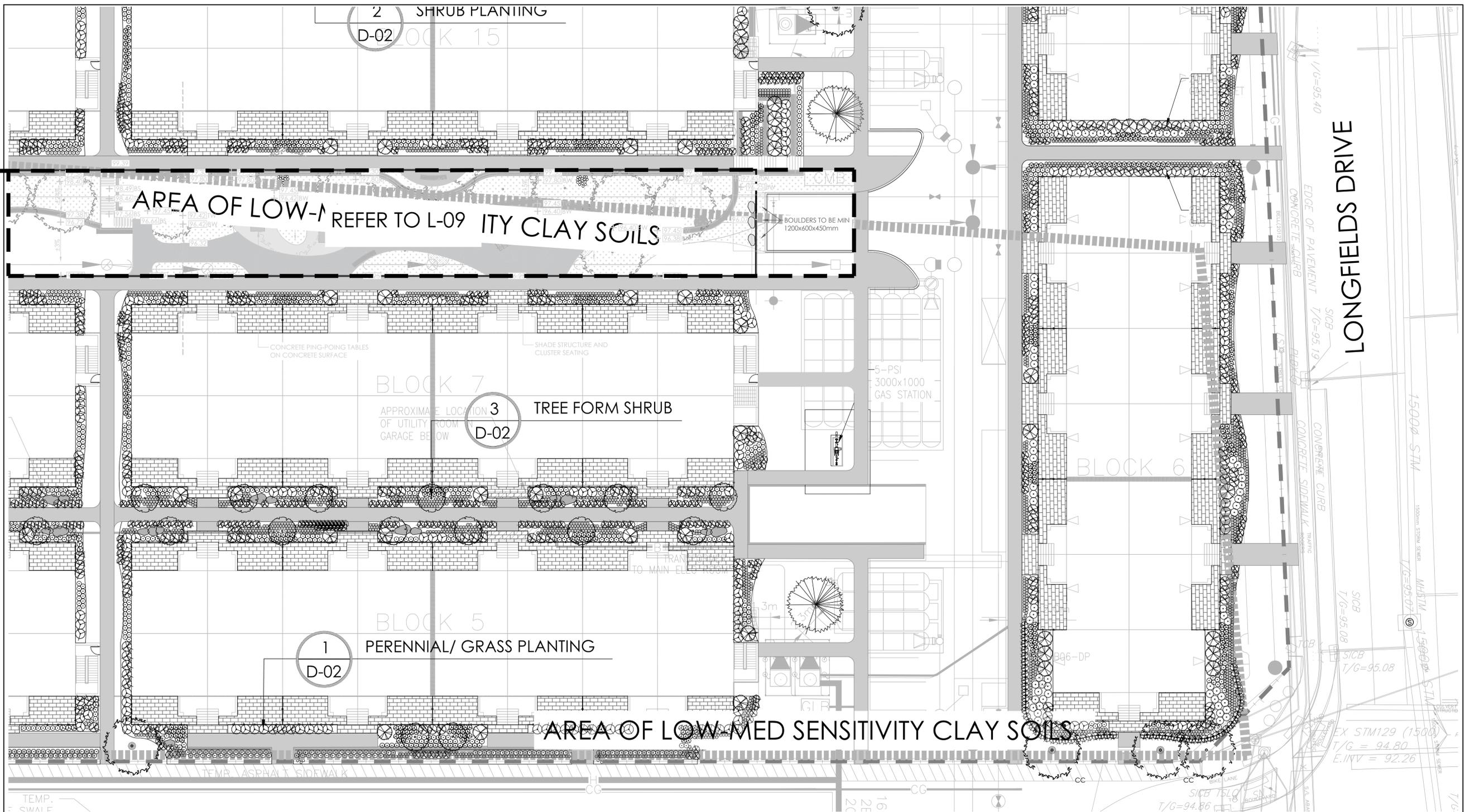
KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (8-15m)					
AG	2	AESCULUS GLABRA	OHIO BUCKEYE	70mm	B&B
AR	4	ACER RUBRUM 'REDPOINTE'	REDPOINTE MAPLE	70mm	B&B
CC	4	CORYLUS COLURNA	TURKISH HAZEL	70mm	B&B
CO	4	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	4	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TM	4	TILIA MONGOLICA	MONGOLIAN LINDEN	70mm	B&B

PLANT LIST SITE PLAN

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (10-15m)					
			OHIO BUCKEYE	70mm	B&B
			REDPOINTE MAPLE	70mm	B&B
			TURKISH HAZEL	70mm	B&B
			CUCUMBER TREE	70mm	B&B
			GINKGO	70mm	B&B
			CELTIS OCCIDENTALIS	70mm	B&B
			AMUR MAACKIA	70mm	B&B
			MONGOLIAN LINDEN	70mm	B&B
CONIFEROUS TREES (10-15m)					
JV	1	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	200cm	W&B
PB	1	PINUS BANKSIANA	JACK PINE	200cm	W&B
PP	2	PINUS MUGO VAR. PUMILIO	HOOPSII BLUE SPRUCE	200cm	W&B
TREE FORMED SHRUBS					
AI	120	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	125cm	7 GAL.
DECIDUOUS SHRUBS					
Am	113	ARONIA MELANOCARPA	BLACK CHOKEBERRY	125cm	3 GAL.
Au	555	ARCTOSTAPHYLOS UVA-URSI 'VANCOUVER JADE'	VANCOUVER JADE BEARBERRY	25cm	3 GAL.
CS	343	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE DOGWOOD	175cm	3 GAL.
Cr	574	PICEA OSTENSIS 'SALICIFOLIUS 'REPENS'	SPREADING WILLOW/LEAF COTONEASTER	50cm	3 GAL.
Po	243	PHYSCARPUS OPULIFOLIUS 'LITTLE DEVIL'	LITTLE DEVIL NINEBARK	125cm	3 GAL.
CONIFEROUS SHRUBS					
Pm	211	PINUS MUGO VAR. PUMILIO	DWARF MUGO VAR. PUMILIO	125cm	3 GAL.

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
GRASSES					
ca	251	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER REED GRASS	150cm	1 GAL.
cb	338	CALAMAGROSTIS BRACHYTRICHA	AUTUMN FEATHER GRASS	125cm	1 GAL.
ers	536	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	50cm	1 GAL.
pv	238	PANICUM VIRGATUM	SWITCH GRASS	150cm	1 GAL.
sh	229	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSSEED	50cm	1 GAL.
sn	128	SORGHASTRUM NUTANS	INDIAN GRASS	150cm	1 GAL.
ss	43	SCHIZACHYRIUM SCOPARIUM 'BLUE PARADISE'	BLUE PARADISE LITTLE BLUE STEM	150cm	1 GAL.
PERENNIALS					
am	384	ACHILLEA MILLEFOLIUM 'TERRACOTTA'	YARROW	50cm	1 GAL.
am	3167	ALLIUM X 'MILLENIUM'	ORNAMENTAL ONION	50cm	1 GAL.
as	1381	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	50cm	1 GAL.
es	619	ECHINACEA X SONNIBERO 'HOT CORA'	CONEFLOWER	60cm	1 GAL.
gg	3196	GALLARDIA X GRANDIFLORA 'ARIZONA RED'	BLANKET FLOWER	30cm	1 GAL.
pa	122	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	50cm	1 GAL.
sa	1633	SEDUM ALBUM	CARPET STONE CROP	5cm	1 GAL.
st	2413	SEDUM TELEPHIUM 'MATRONA'	STONECROP	60cm	1 GAL.

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LEGEND

PROPERTY LINE
DECORATIVE FENCE

PLANTING

DECIDUOUS STREET TREE (N.I.C.)
MEDIUM DECIDUOUS TREE
CONIFEROUS TREE
TREE FORMED SHRUB
DECIDUOUS SHRUB
CONIFEROUS SHRUB
ORNAMENTAL GRASSES
PERENNIALS

SURFACING

RIVER STONE
UNIT PAVERS LIGHT DUTY PAVING
UNIT PAVERS HEAVY DUTY PAVING
CIP CONCRETE LIGHT DUTY PAVING
ASPHALT LIGHT DUTY PAVING

AMENITIES

BIKE RACK
GRANITE SEATING BOULDERS

PLANT KEY

PLANT SPECIES
QUANTITY

8	ISSUED FOR FIFTH SUBMISSION	FEB 13/24
7	ISSUED FOR THIRD SUBMISSION	OCT 13/23
6	RE-ISSUED FOR SECOND SUBMISSION	JUN 30/23
5	RE-ISSUED FOR SECOND SUBMISSION	MAY 31/23
4	ISSUED FOR SECOND SUBMISSION	APR 24/23
3	ISSUED FOR FIRST SUBMISSION	JUN 30/22
2	ISSUED FOR CLIENT REVIEW	JUN 10/22
1	ISSUED FOR CLIENT REVIEW	MAY 16/22

Revision
City Approval Stamp

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PLANT LIST A - STREET TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
LARGE DECIDUOUS STREET TREES (15-30m)					
AF	4	ACER X FREEMANNI	FREEMAN MAPLE	70	B&B
CCO	4	CARYA CORODIFORMIS	BITTERNUT HICKORY	70	B&B
FS	4	FAGUS SYLVATICA	CLUMBER TREE	70	B&B
GB	4	GINKGO BILOBA	GINKGO	70	B&B
GS	2	GLEDITSIA TRIACANTHOS VAR. INERMIS	HONEYLOCUST	70	B&B
GD	4	GYMNOCLAUS DIOICUS	KENTUCKY COFFEE TREE	70	B&B
LT	4	LIRIODENDRON TULIPIFERA	TULIP TREE	70	B&B
MAC	4	MAGNOLIA ACUMINATA	EUROPEAN BEECH	70	B&B
PD	4	POPULUS DELTOIDES	EASTERN COTTON WOOD	70	B&B
QM	4	QUERCUS MACROCARPA	BUR OAK	70	B&B
QP	4	QUERCUS PALUSTRIS	PIN OAK	70	B&B
QR	4	QUERCUS RUBRA	RED OAK	70	B&B
TT	4	TILIA TOMENTOSA	STERLING SILVER LINDEN	70	B&B
UL	4	ULMUS JAPONICA X WILSONIANA 'MORTON'	ACCOLADEL ELM	70	B&B
UP	4	ULMUS PARVIFOLIA	LACEBARK ELM	70	B&B

PLANT LIST STREET TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (8-15m)					
AG	2	AESCULUS GLABRA	OHIO BUCKEYE	70mm	B&B
AR	4	ACER RUBRUM 'REDPOINT'	REDPOINT MAPLE	70mm	B&B
CC	4	CORYLUS COLURNA	TURKISH HAZEL	70mm	B&B
CO	4	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	4	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TM	4	TILIA MONGOLICA	MONGOLIAN LINDEN	70mm	B&B

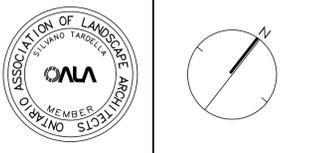
PLANT LIST SITE PLAN

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (10-15m)					
AG	6	AESCULUS GLABRA	OHIO BUCKEYE	70mm	B&B
AR	5	ACER RUBRUM 'REDPOINT'	REDPOINT MAPLE	70mm	B&B
CC	1	CORYLUS COLURNA	TURKISH HAZEL	70mm	B&B
CO	3	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	6	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TM	3	TILIA MONGOLICA	MONGOLIAN LINDEN	70mm	B&B
CONIFEROUS TREES (10-15m)					
JV	1	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	200cm	W&B
PB	1	PINUS BANSKIANA	JACK PINE	200cm	W&B
PP	2	PICEA PUNGENS 'HOOPSII'	HOOPSII BLUE SPRUCE	200cm	W&B
TREE FORMED SHRUBS					
AI	120	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	125cm	7 GAL
DECIDUOUS SHRUBS					
Am	113	ARONIA MELANOCARPA	BLACK CHOKEBERRY	125cm	3 GAL
Au	555	ARCTOSTAPHYLOS UVA-URSI 'VANCOUVER JADE'	VANCOUVER JADE BEARBERRY	25cm	3 GAL
Cx	343	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE DOGWOOD	175cm	3 GAL
Csr	574	COTONEASTER SAUCIFOLIUS 'REPENS'	SPREADING WILLOW LEAF COTONEASTER	50cm	3 GAL
Po	243	PHYSOCARPUS OPUULIFOLIUS 'LITTLE DEVIL'	LITTLE DEVIL NINEBARK	125cm	3 GAL
CONIFEROUS SHRUBS					
Pm	211	PINUS MUGO VAR. PUMILIO	DWARF MUGO VAR. PUMILIO	125cm	3 GAL

GRASSES	PERENNIALS
cb 251	am 384
cb 338	am 3167
ers 536	as 1381
pv 238	es 619
sh 229	ga 3196
sn 128	pa 122
ss 43	sa 1631
	st 2413

GRASSES	PERENNIALS
CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	ACHILLEA MILLEFOLIUM 'TERRACOTTA'
CALAMAGROSTIS BRACHYTRICHA	ALLIUM 'MILLENIUM'
ERAGROSTIS SPECIABILIS	ASTER NOVAE-ANGLIAE 'PURPLE DOME'
PANICUM VIRGATUM	ECHINACEA X SOMBRERO 'HOT CORA'
SPOROBOLUS HETEROLEPIS	GALLARIDA X GRANDIFLORA 'ARIZONA RED'
SORGHASTRUM NUTANS	PEROVSKIA ATRIPLICIFOLIA
SCHIZACHYRIUM SCOPARIUM 'BLUE PARADISE'	SEDUM ALBUM
	SEDUM TELEPHIUM 'MATRONA'

GRASSES	PERENNIALS
KARL FOERSTER REED GRASS	YARROW
AUTUMN FEATHER GRASS	ORNAMENTAL ONION
PURPLE LOVE GRASS	NEW ENGLAND ASTER
SWITCH GRASS	CONEFLOWER
PRAIRIE DROPSIDE	BLANKET FLOWER
INDIAN GRASS	RUSSIAN SAGE
BLUE PARADISE LITTLE BLUE STEM	CARPET STONE CROP
	STONECROP



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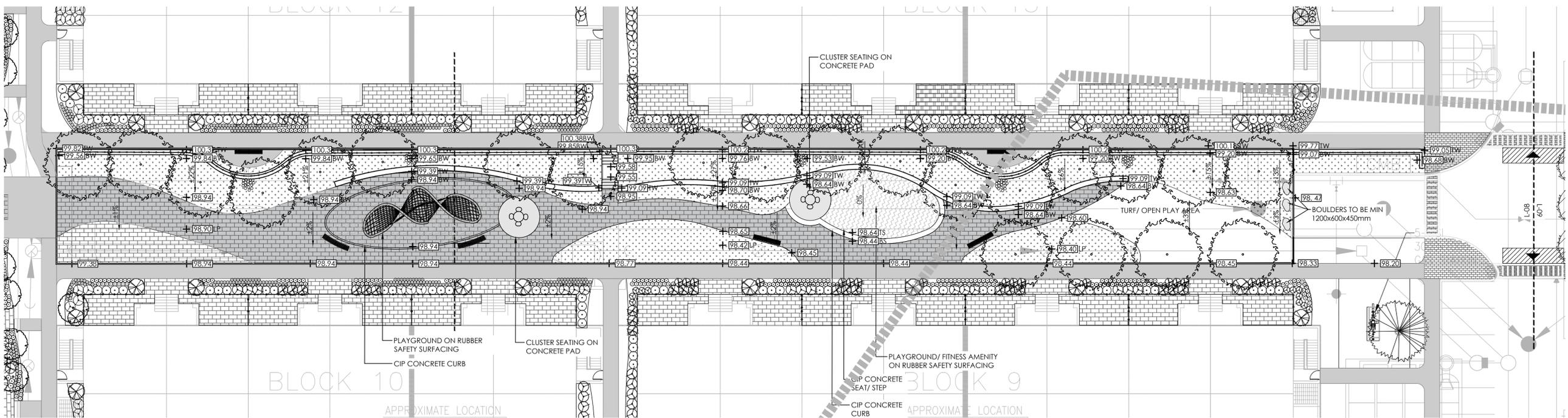
BARRHAVEN TOWN CENTRE

Title
LANDSCAPE PLAN

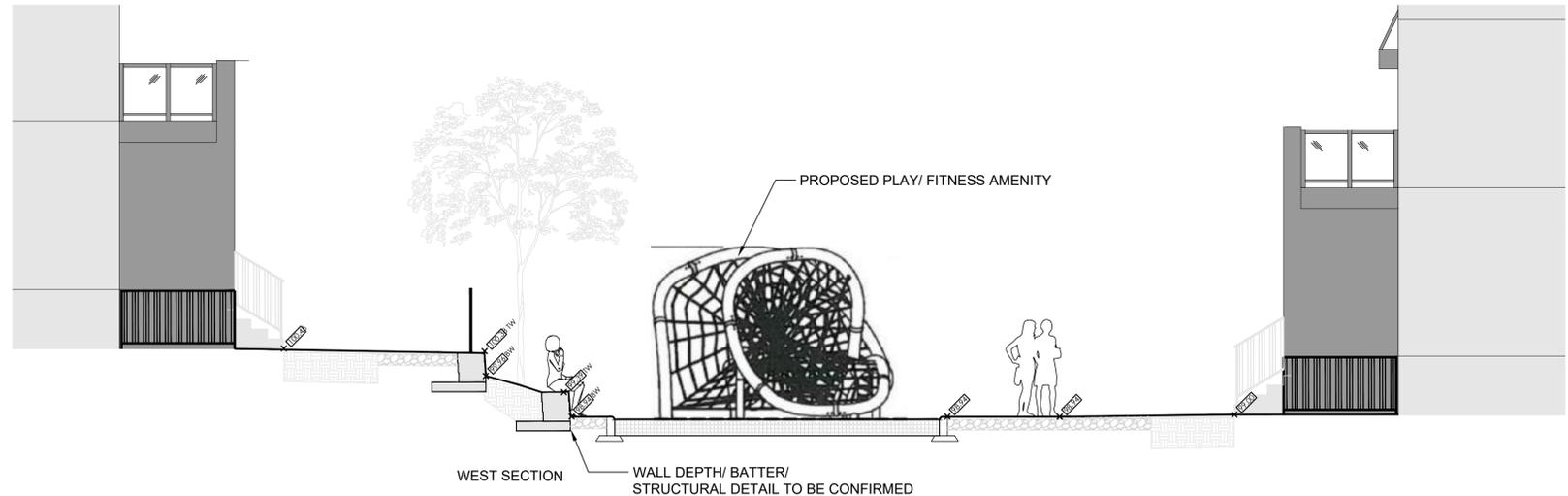
Date OCTOBER 2023
Scale 1:200
Drawn EL
Checked SC
Job No. 21-195

L-07

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1 CENTRAL AMENITY SPACE
1:200



2 WEST SECTION
1:60

LEGEND

- PROPERTY LINE
- PRIVATE TERRACE FENCE
- GIARD RAIL ON RET. WALL
- LANDSCAPE RETAINING WALL

PLANTING

- DECIDUOUS TREE
- SHRUB/ PERENNIALS/ GRASSES

SURFACING

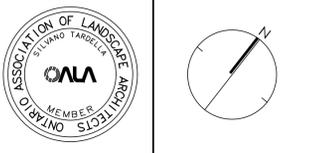
- LIGHT DUTY UNIT PAVERS
- CIP CONCRETE LIGHT DUTY PAVING
- ASPHALT LIGHT DUTY PAVING
- RUBBER SAFETY SURFACE

AMENITIES

- ACCESSIBLE BENCH/ CLUSTER SEATING
- CONCRETE PING PONG TABLE

8	ISSUED FOR FIFTH SUBMISSION	FEB 13/24
7	ISSUED FOR THIRD SUBMISSION	OCT 13/23
6	RE-ISSUED FOR SECOND SUBMISSION	JUN 30/23
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Revision
City Approval Stamp



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BARRHAVEN TOWN CENTRE

Title
AMENITY SPACE

Date OCTOBER 2023
Scale 1:200
Drawn EL
Checked SC
Job No. 21-195

L-08

PLANTING NOTES:

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SOD NOTES:

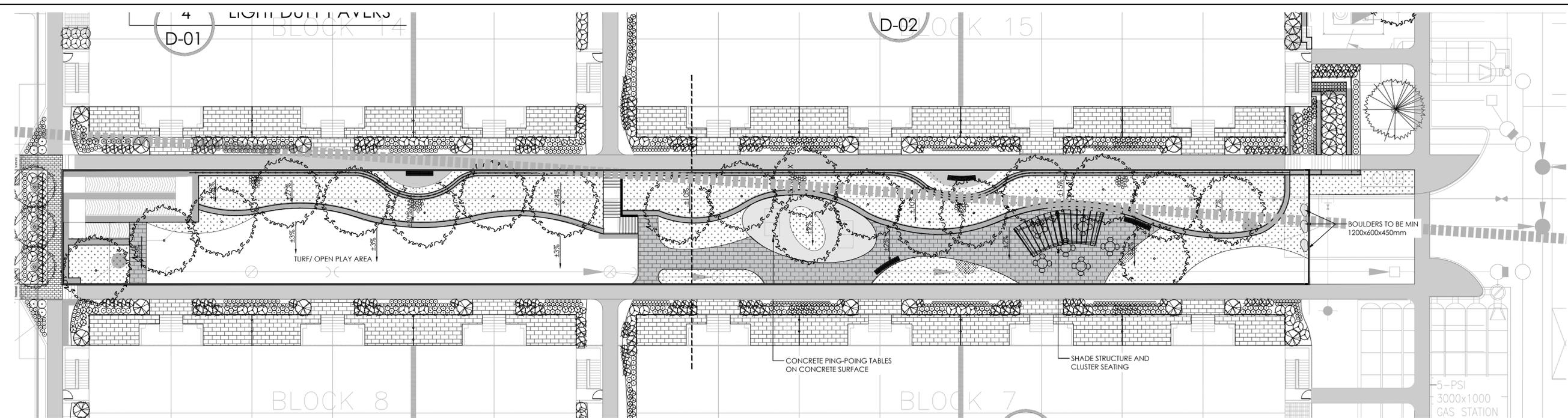
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RETAINING WALL NOTES:

- RETAINING WALL LAYOUT AND HEIGHT ARE UNDER REVIEW. FINAL RETAINING WALL LAYOUT AND DESIGN TO BE CONFIRMED WITH STRUCTURAL ENGINEER.
- TREE LOCATIONS ARE UNDER REVIEW. FINAL PLACEMENT OF TREES TO BE CONFIRMED BASED ON REQUIRED DEPTH OF GEOGRID REINFORCEMENT BEHIND RETAINING WALLS.

PLANT LIST AMENITY SPACE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (10-15m)					
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CC	X	CORYLUS COLURNA	TURKISH HAZEL	70mm	B&B
CO	X	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	X	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TREE FORMES SHRUBS					
Al	X	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	125cm	7 GAL.
DECIDUOUS SHRUBS					
Am	X	ARONIA MELANOCARPA	BLACK CHOKEBERRY	125cm	3 GAL.
Cs	X	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE DOGWOOD	175cm	3 GAL.
CONIFEROUS SHRUBS					
Pm	X	PINUS MUGO VAR. PUMILIO	DWARF MUGO VAR. PUMILIO	125cm	3 GAL.
GRASSES					
cb	X	CALAMAGROSTIS BRACHYTRICHA	AUTUMN FEATHER GRASS	125cm	1 GAL.
ers	X	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	50cm	1 GAL.
pv	X	PANICUM VIRGATUM	SWITCH GRASS	150cm	1 GAL.
PERENNIALS					
as	X	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	50cm	1 GAL.
es	X	ECHINACEA X SOMBRERO 'HOT CORA'	CONEFLOWER	60cm	1 GAL.
ga	X	GAILLARDIA X GRANDIFLORA 'ARIZONA RED'	BLANKET FLOWER	30cm	1 GAL.
pe	X	PEROVSKIA ATRIPLEXIFOLIA	RUSSIAN SAGE	60cm	1 GAL.
st	X	SEDUM TELEPHIUM 'MATRONA'	STONECROP	60cm	1 GAL.



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LEGEND

- PROPERTY LINE
- PRIVATE TERRACE FENCE
- GUARD RAIL ON RET. WALL
- LANDSCAPE RETAINING WALL

PLANTING

- DECIDUOUS TREE
- SHRUB/ PERENNIALS/ GRASSES

SURFACING

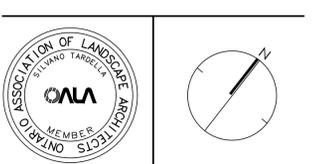
- LIGHT DUTY UNIT PAVERS
- CIP CONCRETE LIGHT DUTY PAVING
- ASPHALT LIGHT DUTY PAVING
- RUBBER SAFETY SURFACE

AMENITIES

- ACCESSIBLE BENCH/ CLUSTER SEATING
- CONCRETE PING PONG TABLE

8	ISSUED FOR FIFTH SUBMISSION	FEB 13/24
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6	RE-ISSUED FOR SECOND SUBMISSION	JUN 30/23
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Revision
City Approval Stamp



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1285 WELLINGTON STREET WEST, OTTAWA, ON K1Y 3A8 CANADA
T 613.237.2345 F 613.237.6423 OTTAWA@NAK-DESIGN.COM

minto
Communities

Project

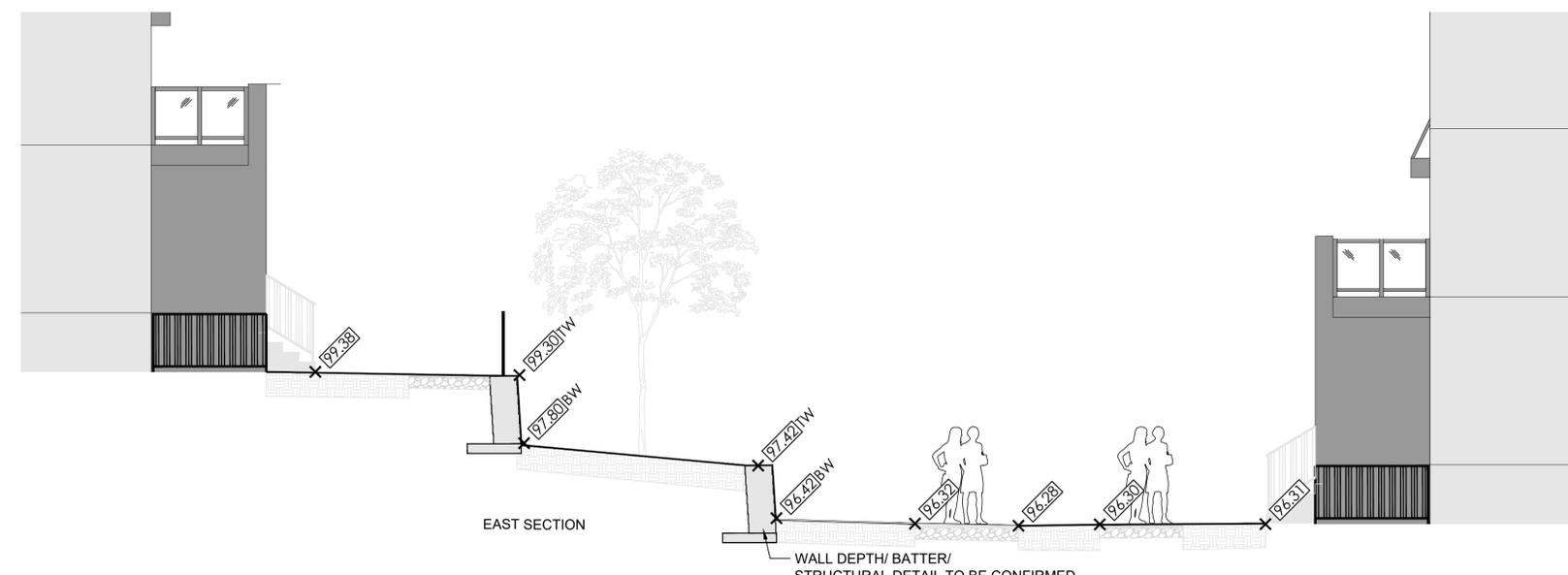
BARRHAVEN TOWN CENTRE

Title
AMENITY SPACE

Date OCTOBER 2023
Scale 1:200
Drawn EL
Checked SC
Job No. 21-195

Sheet
L-09

1 CENTRAL AMENITY SPACE
1:200



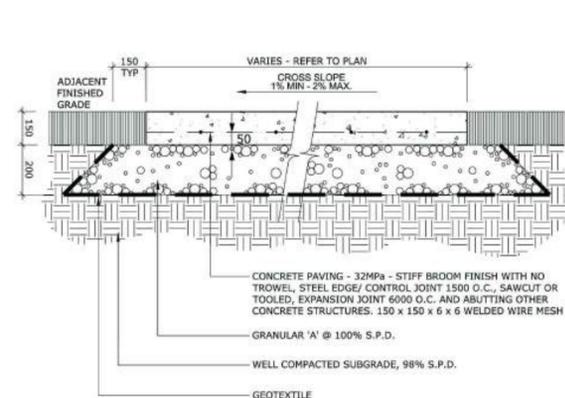
2 EAST SECTION
1:60

- PLANTING NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF ALL SERVICES PRIOR TO ANY EXCAVATION.
 - LOCATIONS OF ALL PLANT MATERIALS TO BE STAKED BY THE CONTRACTOR AND VERIFIED IN THE FIELD BY LANDSCAPE ARCHITECT PRIOR TO THE EXCAVATION OF PITS.
 - ALL PLANT MATERIAL SHALL BE NURSERY GROWN STOCK UNLESS OTHERWISE NOTED.
 - DECIDUOUS TREES TO HAVE A MINIMUM 1800 CLEAR STEM ABOVE GRADE.
 - ALL PLANT MATERIAL SHALL BE WARRANTIED FOR TWO YEARS FROM THE DATE OF PERFORMANCE ACCEPTANCE AS DETERMINED BY THE LANDSCAPE ARCHITECT.
 - ALL STEEL T-BARS TO BE REMOVED AT THE ONE YEAR INTERIM INSPECTION UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.
 - CONTRACTOR TO MAKE GOOD ALL EXISTING AREAS DAMAGED BY HIS WORK TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
 - PERIODIC REVIEWS OF PLANTING SHALL BE CARRIED OUT BY THE LANDSCAPE ARCHITECT.
 - ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT COVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE AND ONLY AFTER APPROVAL OF THE LANDSCAPE ARCHITECT.
- SHRUB NOTES:**
- PLACE THE SHRUB AS UPRIGHT AS POSSIBLE, INCLUDING ON SLOPES.
 - PLANT SHRUBS AT THE PROPER DEPTH AS INDICATED ON THE DRAWINGS.
 - PACK THE SOIL WELL AROUND THE PLANT BASE TO REMOVE AIR POCKETS, BUT DO NOT COMPACT SOIL. PRESS SOIL GENTLY BUT FIRMLY TO PREVENT SHOCKING THE ROOTS.
 - PLACE SPECIES ACCORDING TO THE QUANTITIES AND SPACING AS INDICATED ON THE DRAWINGS.
 - PLANT SHRUBS AT THE PROPER DEPTH THE ROOT COLLARS SHOULD BE AT GROUND LEVEL.

- PLANT SHRUBS AT THE PROPER DEPTH THE ROOT COLLARS SHOULD BE AT GROUND LEVEL.
 - MULCH THE SOIL SURFACE AS INDICATED ON DRAWINGS.
 - WATER PLANTS THOROUGHLY FOLLOWING PLANTING.
 - REFER TO SPECIFICATIONS FOR MAINTENANCE REQUIREMENTS.
- SOD NOTES:**
- SODDED AREAS SHALL HAVE A MINIMUM 150mm TOPSOIL.
 - FIRM THE SOIL BY GENTLY TAMPING OR ROLLING THE TOPSOIL. DO NOT COMPACT THE SOIL. EXCESSIVE FORCE WILL DESTROY THE SOIL STRUCTURE AND INHIBIT GERMINATION.
 - CUT THE GRASS TO 50mm WHENEVER IT REACHES THE HEIGHT OF 70mm. REMOVE CLIPPINGS THAT WILL SMOOTH GRASS.
 - SODDED AREAS WILL BE ACCEPTED BY THE PROJECT MANAGER FOLLOWING PERFORMANCE ACCEPTANCE, PROVIDED:
 - SEEDED AREAS ARE PROPERLY ESTABLISHED.
 - TURF IS FREE OF DEAD SPOTS AND WEEDS.
 - NO SURFACE SOIL IS VISIBLE WHEN GRASS HAS BEEN CUT TO A HEIGHT OF 50mm
 - TURF AREAS HAVE BEEN CUT NO LESS THAN TWICE, THE LAST CUT BEING CARRIED OUT WITHIN 24 HOURS PRIOR TO THE ACCEPTANCE INSPECTION.
- RETAINING WALL NOTES:**
- RETAINING WALL LAYOUT AND HEIGHT ARE UNDER REVIEW. FINAL RETAINING WALL LAYOUT AND DESIGN TO BE CONFIRMED WITH STRUCTURAL ENGINEER.
 - TREE LOCATIONS ARE UNDER REVIEW. FINAL PLACEMENT OF TREES TO BE CONFIRMED BASED ON REQUIRED DEPTH OF GEOGRID REINFORCEMENT BEHIND RETAINING WALLS.

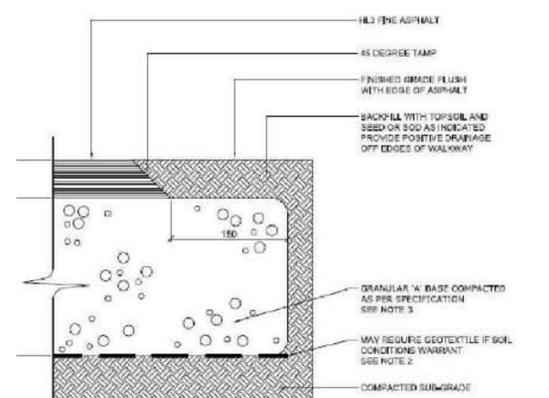
PLANT LIST AMENITY SPACE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (10-15m)					
AR	X	ACER RUBRUM 'REDPOINT'	REDPOINTE MAPLE	70mm	B&B
CC	X	CORYLUS COLLURNA	TURKISH HAZEL	70mm	B&B
CO	X	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	X	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TREE FORMES SHRUBS					
AI	X	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	125cm	7 GAL.
DECIDUOUS SHRUBS					
Am	X	ARONIA MELANOCARPA	BLACK CHOKEBERRY	125cm	3 GAL.
Cs	X	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE DOGWOOD	175cm	3 GAL.
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Pm	X	PINUS MUGO VAR. PUMILIO	DWARF MUGO VAR. PUMILIO	125cm	3 GAL.
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ers	X	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	50cm	1 GAL.
pw	X	PANICUM VIRGATUM	SWITCH GRASS	150cm	1 GAL.
PERENNIALS					
as	X	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	50cm	1 GAL.
es	X	ECHINACEA X SOMBRERO 'HOT CORA'	CONFLOWER	60cm	1 GAL.
gg	X	GAILLARDIA X GRANDIFLORA 'ARIZONA RED'	BLANKET FLOWER	30cm	1 GAL.
ps	X	PEROVSKIA ATRIPLEXIFOLIA	RUSSIAN SAGE	60cm	1 GAL.
st	X	SEDUM TEPHIFOLIUM 'MATRONA'	STONECROP	60cm	1 GAL.



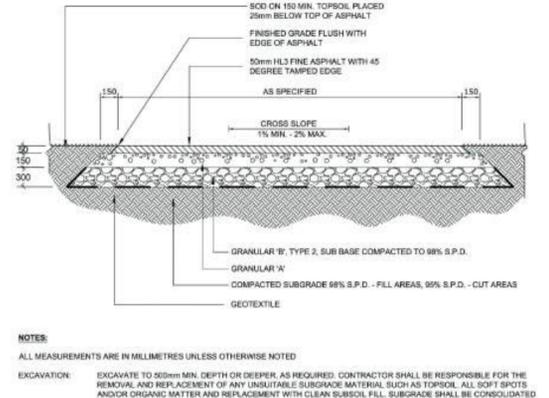
- NOTES:**
1. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
 2. CONCRETE SHALL BE 32MPa CLASS C-2 MEETING THE REQUIREMENTS OF S.P. F-3510 AND PLACED IN ACCORDANCE WITH S.P. F-9040
 3. GRANULAR 'A' SHALL MEET THE REQUIREMENTS OF OPSS 1010
 4. APPROVED NON-WOVEN CLASS 1 GEOTEXTILE AS PER MS-22.15 WHEN WARRANTED BY SOIL CONDITION, SUBJECT TO APPROVAL BY THE CONTRACT ADMINISTRATOR

1 LIGHT DUTY CONCRETE
N.T.S.



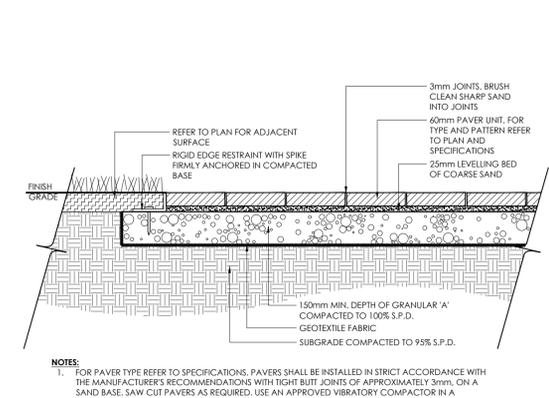
- NOTE:**
1. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
 2. CROSS SLOPE SIDEWALK 1:12 2% IN DIRECTION OF NATURAL DRAINAGE TO PROVIDE POSITIVE DRAINAGE OFF ALL WALKS
 3. APPROVED NON-WOVEN CLASS 1 GEOTEXTILE AS PER MS-22.15 WHEN WARRANTED BY SOIL CONDITION, SUBJECT TO APPROVAL BY THE CONTRACT ADMINISTRATOR
 4. GRANULAR 'A' SHALL MEET THE REQUIREMENTS OF OPSS 1010

2 LIGHT DUTY ASPHALT
N.T.S.



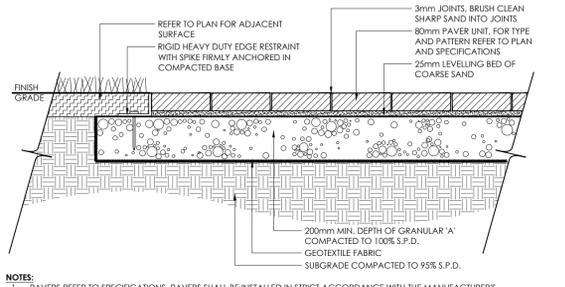
- NOTES:**
- ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
- EXCAVATION:** EXCAVATE TO 50mm MIN. DEPTH OR DEEPER, AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ANY UNSUITABLE SUBGRADE MATERIAL, SUCH AS TOPSOIL, ALL SOFT SPOTS AND/OR ORGANIC MATTER AND REPLACEMENT WITH CLEAN SUBSOL FILL. SUBGRADE SHALL BE CONSOLIDATED TO A 98% S.P.D. REMOVE EXCAVATED MATERIAL OFF SITE UNLESS OTHERWISE DIRECTED
- GRANULAR BASE:** GRANULAR 'A' - 100% STANDARD PROCTOR DENSITY MIN. GRANULAR 'B' TYPE 2, SUB BASE GRANULARS TO OPSS ASPHALT: 50 TOP SURFACE LAYER (AFTER COMPACTION) OF HOT MIX HL3 FINE IN ACCORDANCE WITH O.P.S.S. STANDARDS
- EDGE TREATMENT:** ASPHALT EDGE TO BE 45 DEGREE WELL TAMPED TO FORM UNIFORM, SMOOTH, CLEAN EDGES WITHOUT LATERAL DEVIATIONS. SOD TO FEATHER IN WITH EXISTING SOD AND GRADES AT A MAXIMUM SLOPE OF 4:1. ALL SODDED AREAS SHALL BE 25mm BELOW THE ASPHALT SURFACE. REPLACE ALL TOPSOIL AND SOD AS DIRECTED IN CUT AND FILL SITUATIONS
- DRAINAGE:** SLOPE TO BE A MINIMUM OF 2% ON CROWNED OR CROSS SLOPED PATHS AS DIRECTED ON SITE OR AS SHOWN IN DRAWINGS
- SODDING:** ALL DISTURBED AREAS ALONG ASPHALT WALKWAYS SHALL BE SODDED OVER 150mm TOPSOIL FOR A MINIMUM DISTANCE OF 900mm
- GEOTEXTILE:** GEOTEXTILE SHALL BE APPROVED NON-WOVEN CLASS 1 GEOTEXTILE AS PER MS-22.15 WHEN WARRANTED BY SOIL CONDITIONS, SUBJECT TO APPROVAL BY THE CONTRACT ADMINISTRATOR
- NOTE:** TO BE CONFIRMED WITH SOIL INVESTIGATIONS AND MODIFIED ACCORDINGLY

3 HEAVY DUTY ASPHALT
N.T.S.



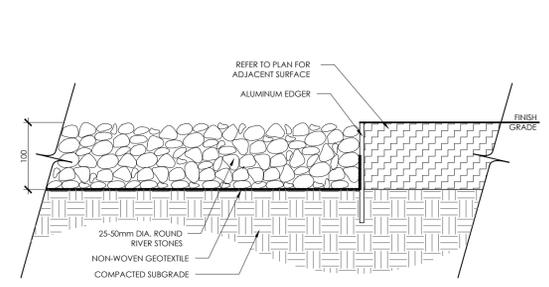
- NOTES:**
1. FOR PAVER TYPE REFER TO SPECIFICATIONS. PAVERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH TIGHT BUTT JOINTS OF APPROXIMATELY 3mm, ON A SAND BASE. SAW CUT PAVERS AS REQUIRED. USE AN APPROVED VIBRATORY COMPACTOR IN A CIRCULAR PATTERN.
 2. ALL DAMAGED OR CHIPPED PAVERS MUST BE REPLACED AT THE CONTRACTOR'S COST.
 3. EXCAVATE AND REMOVE ALL TOPSOIL AND UNSUITABLE MATERIALS OFF SITE. SUBGRADE TO BE GRADED TO SIMILAR CONTOURS AS FINISH GRADE. COMPACT SUBGRADE TO 95% S.P.D. PLACE 150mm LAYER OF GRANULAR 'A' COMPACTED TO 100% S.P.D.
 4. PLACE MAXIMUM 25mm UNCOMPACTED SAND FOR LEVELLING COURSE.
 5. INSTALL PAVER UNITS IN THE PATTERN AS SPECIFIED PER MANUFACTURER'S PATTERN RECOMMENDATION AND SPECIFICATIONS.
 6. RETAIN EDGING WITH RIGID PAVER EDGE RESTRAINTS AS PER SPECIFICATIONS.

4 LIGHT DUTY PAVERS
1:15



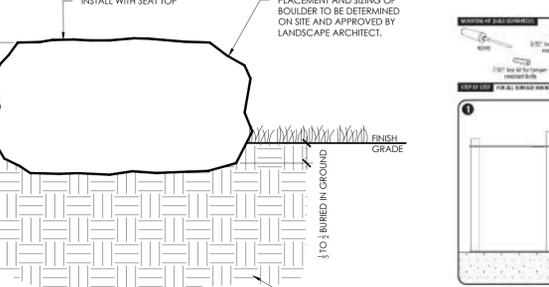
- NOTES:**
1. PAVERS REFER TO SPECIFICATIONS. PAVERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH TIGHT BUTT JOINTS OF APPROXIMATELY 3mm ON A SAND BASE. SAW CUT PAVERS AS REQUIRED. USE AN APPROVED VIBRATORY COMPACTOR IN A CIRCULAR PATTERN.
 2. ALL DAMAGED OR CHIPPED PAVERS MUST BE REPLACED AT THE CONTRACTOR'S COST.
 3. EXCAVATE AND REMOVE ALL TOPSOIL AND UNSUITABLE MATERIALS OFF SITE. SUBGRADE TO BE GRADED TO SIMILAR CONTOURS AS FINISH GRADE. COMPACT SUBGRADE TO 95% S.P.D. PLACE 200mm LAYER OF GRANULAR 'A' COMPACTED TO 100% S.P.D.
 4. PLACE MAXIMUM 25mm UNCOMPACTED SAND FOR LEVELLING COURSE.
 5. INSTALL PER UNITS IN THE PATTERN SPECIFIED PER MANUFACTURER'S PATTERN RECOMMENDATION AND SPECIFICATIONS.
 6. RETAIN EDGING WITH RIGID, HEAVY DUTY PAVER EDGE RESTRAINTS AS PER SPECIFICATIONS.
 7. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

5 HEAVY DUTY PAVERS
1:15



- NOTES:**
1. APPROVED NON-WOVEN CLASS 1 GEOTEXTILE AS PER MS-22.15 WHEN WARRANTED BY SOIL CONDITION, SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT.
 2. RETAIN RIVERSTONES WITH RIGID EDGE RESTRAINTS AS PER SPECIFICATIONS.

6 RIVER STONE
1:5



- NOTES:**
1. NO SHARP EDGES, CRACKS OR SPALLING.
 2. NO FROST SUSCEPTIBLE BOULDER

7 BOULDER
1:5

ELEVEN BIKE RACK

INSTALLATION INSTRUCTIONS

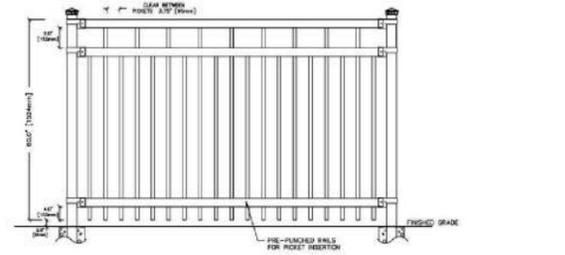
MARK HOLE LOCATIONS:
• Place 10mm rock in desired location marking location with spirit level.
• Use 10mm spirit level to ensure hole is level.
• Mark hole locations in concrete with a 10mm spirit level.

DRILL HOLES:
• Use hammer drill to drill 4 1/2" holes in 200mm diameter holes (hole depth marked on drawing).
• Use 10mm spirit level to ensure hole is level.
• Use 10mm spirit level to ensure hole is level.

FIX BOLTS & INSERT ANCHORS:
• Use compressed air and clean with brush to clear dust from hole.
• Use spirit level to ensure hole is level.
• Use spirit level to ensure hole is level.

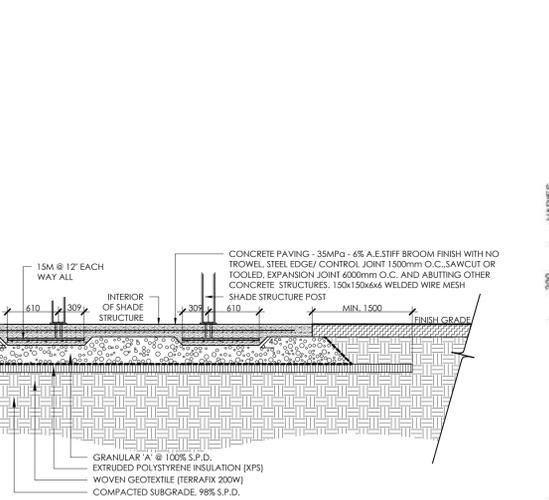
ASSEMBLY:
• Assemble bike rack according to instructions.
• Use spirit level to ensure hole is level.
• Use spirit level to ensure hole is level.

8 BIKERACK
N.T.S.



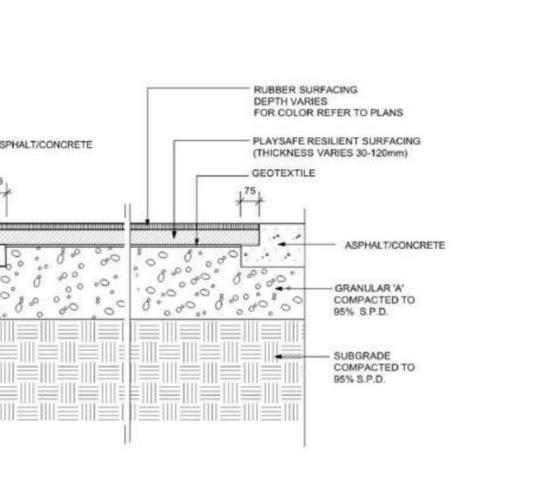
- SPECIFICATIONS:**
- POSTS & PICKETS:** COLD FORMED STEEL TUBING INTERIOR & EXTERIOR GALVALUME® COATING
- RAILS:** 20MM COATED COLD FORMED TUBING (Zinc, Manganese, Magnesium) COATED INTERIOR AND EXTERIOR
- FINISH:** CHROMIUM COPPER/COBALT COATING ELECTROLYTICALLY APPLIED THERMALLY BONDED POLYESTER POWDER COATING MINIMUM FILM THICKNESS 25mic.
- POSTS:** 76mm x 76mm (3"x3") 140g, 5540 OR 2500ML OPTION: 102mm x 102mm (4"x4") OR 152mm x 152mm (6"x6")
- POST FLANGES:** 152mm x 152mm x 16mm (6"x6"x 5/16") OR 203mm x 203mm x 16mm (8"x8"x 5/8")
- POST CAPS:** FINISHED OR BULL
- RAILS:** 38mm x 84mm (1 1/2" x 3 1/8") 180g
- PICKETS:** 25mm x 25mm (1" x 1") 180g
- FITTINGS:** 10GA STAMPED FORGED (THICK AS DESCRIBED)
- WELDS:** SEAMLESS STEEL
- COLORS:** STANDARD COLORS ARE BLACK, SEMI-BLACK, BROWN, GREEN, WHITE AND FOREST GREEN. (CUSTOM COLORS AVAILABLE UPON REQUEST)
- WARRANTY:** FIVE YEARS
- NOTES:** ALL TYPES OF GATES AVAILABLE TYPED ROOF 12% INCLINE L-COAT PROTECTION AVAILABLE (ADDITIONAL FIVE YEAR WARRANTY)

9 DECORATIVE FENCING
N.T.S.



- NOTES:**
1. CONCRETE TO BE 35 MPa CLASS C-1 MEETING THE REQUIREMENTS OF S.P. F-3510 AND PLACED IN ACCORDANCE WITH S.P. F-9040. SEE SPECIFICATIONS.
 2. GRANULAR 'A' SHALL MEET THE REQUIREMENTS OF OPSS 1010.

10 THICKENED SLAB AT SHADE STRUCTURE
1:40



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. REFER TO PLAN FOR RUBBER SURFACE COLOUR.

11 RUBBER SURFACING
N.T.S.

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City Approval Stamp

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
MEMBER
OALA
Minto Communities

NAK design strategies
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T 613.237.2345 F 613.237.6423 OTTAWA@NAK-DESIGN.COM

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Project

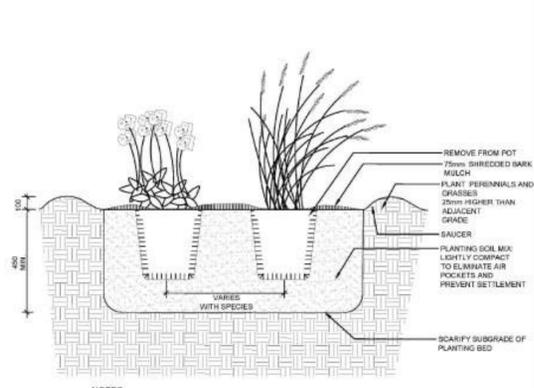
BARRHAVEN TOWN CENTRE

Title

DETAILS

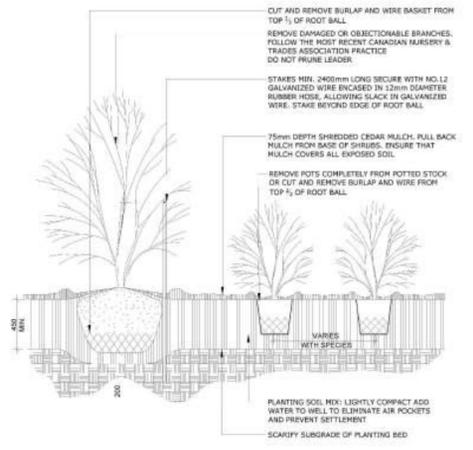
Date	OCTOBER 2023	Sheet	
Scale	AS NOTED		
Drawn	EL		
Checked	SC		
Job No.	21-195		

D-01



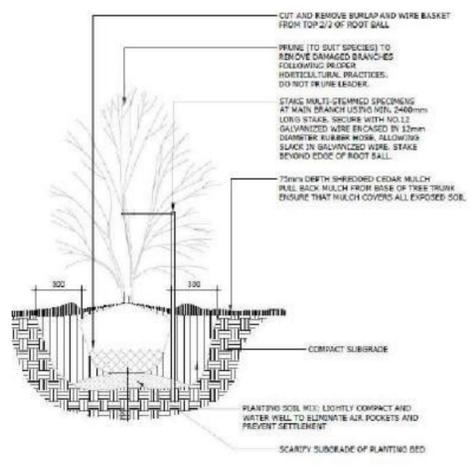
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
 2. PLANTING SOIL MIXTURE AS PER SPECIFICATION.
 3. PROVIDE 100MM HIGH EARTH SAUCER AROUND PERENNIAL/GRASS BED.

1 PERENNIAL/GRASSES PLANTING
N.T.S.



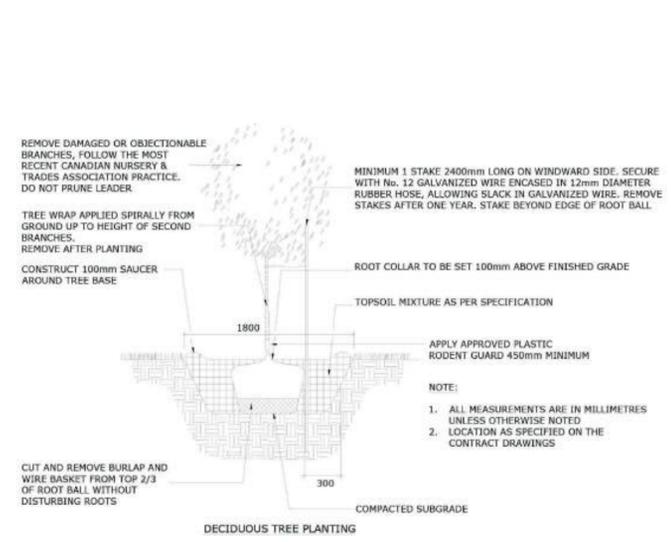
- NOTES:**
1. PLANTING SOIL MIXTURE AS PER SPECIFICATION.
 2. SHRUBS SPECIFIED BARE ROOTS (B.R.) TO BE PLANTED SO THAT ROOTS ARE FULLY EXTENDED IN PLANTING HOLE WITH SOIL MIX BACKFILLED CAREFULLY TO PREVENT ROOT DAMAGE.
 3. PROVIDE 100MM HIGH EARTH SAUCER AROUND SHRUB BED.
 4. STAKES TO BE REMOVED AT COMPLETION OF TWO YEAR WARRANTY PERIOD.

2 SHRUB PLANTING
N.T.S.



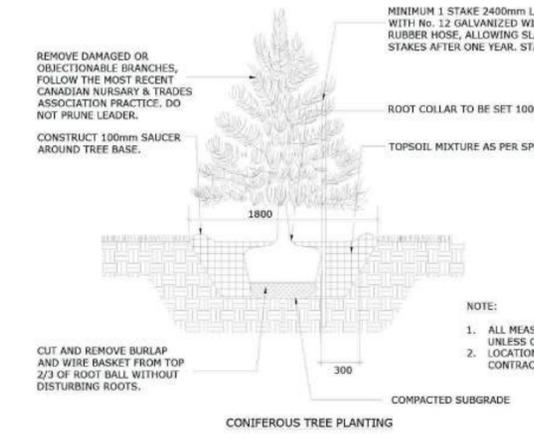
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3 TREE FORM SHRUB
N.T.S.



- NOTE:**
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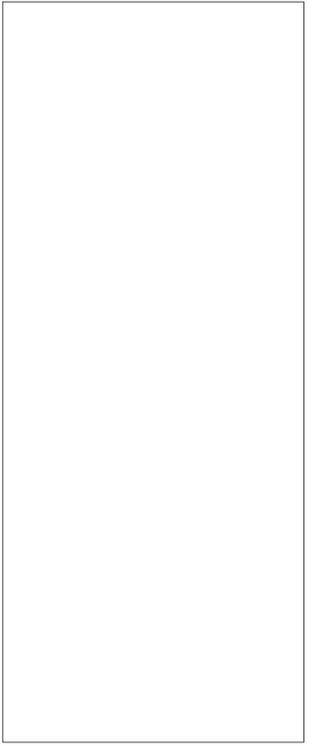
4 DECIDUOUS TREE
N.T.S.



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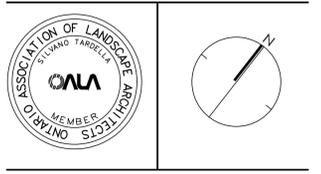
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Project

BARRHAVEN TOWN CENTRE

Title
DETAILS

Date	OCTOBER 2023	Sheet	
Scale	N.T.S.		
Drawn	EL		
Checked	SC		
Job No.	21-195		D-02