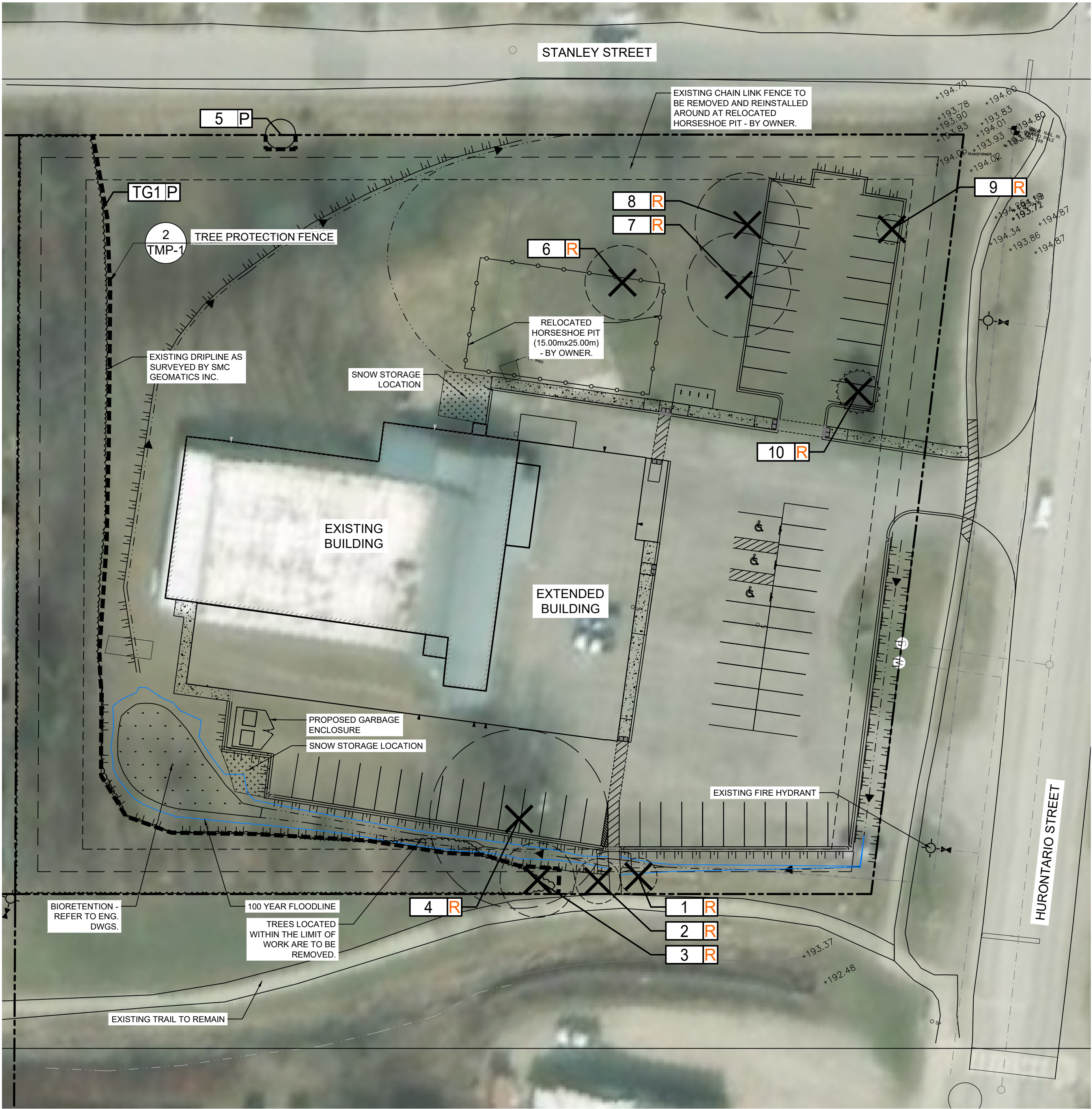
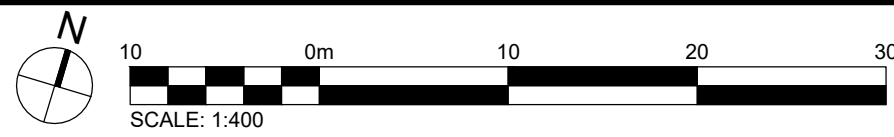


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1 TREE MANAGEMENT PLAN



TREE INVENTORY CHART

ID	Botanical Name	Common Name	DBH (cm)	Radius (m)	Trunk Integrity	Crown Structure	Crown Vigor	Directive	Comments
1	Fraxinus pennsylvanica	Green Ash	13 & 9	2.5	Poor	Fair	Poor	Remove	Cracks in trunk, signs of EAB and decay.
2	Fraxinus pennsylvanica	Green Ash	13	3	Poor	Fair	Fair	Remove	Cracks in trunk, signs of EAB and decay.
3	Acer negundo	Manitoba Maple	8, 9, 8, 8, 15, 15, 18, 13, & 15	5	Fair	Fair	Fair	Remove	Multi-stem at base.
4	Salix spp.	Willow spp.	59, 47, 48, 46, 47, & 48	12	Fair	Fair	Fair	Remove	10% deadwood in canopy. Multi-stem at base. Recommend to remove due to conflicts with construction.
5	Fraxinus pennsylvanica	Green Ash	12	2	Poor	Fair	Fair	Retain	Cracks in trunk, signs of EAB and decay. Boundary Tree.
6	Acer platanoides	Norway Maple	35	5	Fair	Fair	Fair	Remove	Recommend to remove due to conflicts with construction.
7	Gleditsia triacanthos var. Inermis	Thornless Honey Locust	39	7	Fair	Fair	Fair	Remove	Recommend to remove due to conflicts with construction.
8	Acer ginnala	Amur Maple	32, 34, 19, 17, & 28	7	Poor	Fair	Fair	Remove	Wounds in trunk, signs of decay, multi-stem at base and poor tree architecture. Recommend to remove due to conflicts with construction.
9	Betulus papyrifera	White Birch	16 & 16	2	Poor	Poor	Poor	Remove	Multi-stem at base. 2 dead stems, small canopy. 75% dead canopy. Recommend to remove due to condition.
10	Picea glauca	White Spruce	37	3	Good	Fair	Fair	Remove	Slight lean to the south. Recommend to remove due to conflicts with construction.

ID	Botanical Name	Common Name	DBH (10-25cm)	DBH (26-50cm)	DBH (>50cm)	Tree Total	Directive	Comments
TG1	<i>Fraxinus pennsylvanica</i>	Green Ash	109	7		116	Retain	Tree grouping is on the South and West side of the site and contains approximately 123 stems. There were a number of stems under 10cm DBH as well as Red osier dogwood within the grouping.
	<i>Malus spp.</i>	Common Apple spp.	1			1		
	<i>Pinus sylvestrus</i>	Scots Pine	5			5		
	<i>Picea glauca</i>	White Spruce		1		1		
					Total	123		

GENERAL

- ALL EXISTING TREES AT PROPERTY BOUNDARIES AND ON ADJACENT PROPERTIES SHALL BE PRESERVED AND PROTECTED. WHERE TREES WHICH THAT ARE LOCATED AT SHARED PROPERTY BOUNDARIES OR ON ADJACENT PROPERTIES ARE IDENTIFIED BY THIS PLAN TO SUSTAIN INJURY OR REQUIRE REMOVAL, THE OWNER OF THE ADJACENT PROPERTY'S WRITTEN PERMISSION IS REQUIRED PRIOR TO ANY CONSTRUCTION OR REMOVALS WORKS COMMENCE.
- FOR TREE INVENTORY, REFER TO DRAWING TMP-1.

TREE PROTECTION FENCING

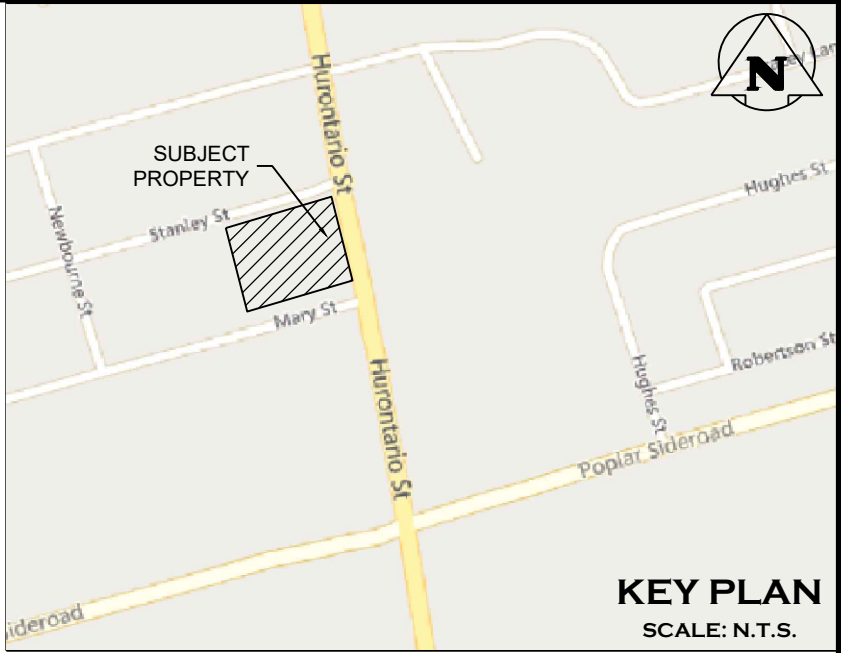
- THE CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING (TPF) TO PROTECT TREES IDENTIFIED FOR PRESERVATION.
- ALL TPF WILL CONFORM WITH THE DETAIL(S) INCLUDED ON THESE PLANS. WHERE CURRENT GOVERNING MUNICIPAL/CITY STANDARDS DIFFER, CONTACT PROJECT ARBORIST OR CONTRACT ADMINISTRATOR FOR DIRECTION.
- NO SUBSTITUTIONS OF MATERIALS, PRODUCTS OR QUANTITIES WILL BE ACCEPTED WITHOUT THE PRIOR WRITTEN PERMISSION OF THE PROJECT ARBORIST.
- UPON INSTALLATION OF THE TPF, THE CONTRACTOR SHALL CONTACT THE PROJECT ARBORIST TO REVIEW AND APPROVE THE FENCING AND LOCATION(S) IN WRITING PRIOR TO COMMENCEMENT OF ANY SITE WORK.
- THE TPF SHALL REMAIN IN THE APPROVED LOCATIONS THROUGHOUT THE DURATION OF THE SITE WORKS AND SHALL NOT BE MOVED AT ANY TIME TO ACCOMMODATE CONSTRUCTION OR SITE WORK.
- THE CONTRACTOR SHALL INSPECT TPF WEEKLY AND MAINTAIN AS REQUIRED THROUGH ALL STAGES OF DEVELOPMENT/CONSTRUCTION. THE TPF SHALL BE REMOVED AT THE COMPLETION OF ALL SITE WORKS AND DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION.

TREE PRESERVATION

- THE TREE PROTECTION ZONE (TPZ) IS PROTECTED AND DELINEATED BY THE TPF. THE CONTRACTOR IS NOT TO PROCEED IN UNCERTAINTY.
- ANY POTENTIAL OR INCURRED INJURY/DAMAGE TO ADJACENT TREE(S) IDENTIFIED TO BE PRESERVED SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ARBORIST AND REVIEWED ON SITE. INJURY/DAMAGE INCLUDES ANY REQUIRED ARBORICULTURAL TREATMENT INCLUDING BUT NOT LIMITED TO: LIMB PRUNING, TRUNK DAMAGE, ROOT EXPOSURE OR REQUIRED CUTTING/REMOVAL OR ANY OTHER ACTIVITY THAT HAS THE POTENTIAL TO HARM THE TREE.
- THE TPZ IS NOT TO BE USED FOR ANY TYPE OF STORAGE INCLUDING MATERIALS, EQUIPMENT OR STOCKPILES.
- NO TRENCHING OR TUNNELING FOR UNDERGROUND SERVICES SHALL OCCUR WITHIN THE TPZ.
- ANY EQUIPMENT USE WITHIN THE TPZ WILL BE RESTRICTED THROUGHOUT ALL STAGES OF DEVELOPMENT. THIS APPLIES TO TPZS WITHIN OR OUTSIDE OF THE PROJECT LIMIT LINE.
- ABSOLUTELY NO ALTERATION OF GRADES OR CONSTRUCTION ACTIVITY IS PERMITTED WITHIN THE TPF AND TPZ. ABSOLUTELY NO FLUSHING OF CONTAMINANT SHALL BE PERMITTED TOWARDS OR WITHIN THE TPZ.
- WHEN WORKING ADJACENT TO TREES TO BE PRESERVED SITE PREPARATION MEASURES SUCH AS PRUNING FOR OVERHEAD CLEARANCE MAY BE REQUIRED. PREPARATORY PRUNING SHALL ONLY BE PERFORMED WHEN COMPLETED BY OR UNDER THE DIRECT SUPERVISION OF AN ISA CERTIFIED ARBORIST (OR APPROVED QUALIFIED PERSON AS APPROVED BY THE PROJECT ARBORIST).
- ALL PRUNING WORK SHALL BE PERFORMED BY A QUALIFIED INDIVIDUAL AND SHALL BE IN ACCORDANCE WITH CURRENT HORTICULTURAL PRACTICES INCLUDING BUT NOT LIMITED TO:
 - PRUNING CUTS SHALL BE MADE JUST BEYOND THE BRANCH COLLAR AND SHOULD BE LIMITED TO THINNING CUTS. HEADING CUTS WILL ONLY BE ACCEPTED IN SPECIFIC CASES AS DIRECTED BY AN ARBORIST AND SHOULD BE AVOIDED WHERE POSSIBLE.
 - PRUNING OF ALL STEMS GREATER THAN 50 MM IN DIAMETER SHOULD BE MADE WITH A THREE-CUT METHOD TO AVOID TEARING LIVING BARK TISSUE.
 - NO WOUND DRESSINGS SHALL BE APPLIED.
- WHERE SOIL EXCAVATION/GRADING WORK IS REQUIRED WITHIN THE ROOTING ZONE OF A TREE TO BE PRESERVED (THE ROOTING ZONE OFTEN EXTENDS BEYOND THE IDENTIFIED TPZ AND CAN BE 3 TIMES THE DRIPLINE RADIUS OR MORE):
 - ROOTS SHALL BE CLEANLY SEVERED BEFORE STRIPPING AND REMOVING SOIL TO AVOID DAMAGE TO THE TREE AND THE ROOT SYSTEM. ROOTS TO BE CUT USING APPROPRIATE EQUIPMENT (I.E. TRENCHER ADAPTED TO THIS SPECIFIC USE/CHAINSAW/ROOT PRUNING MACHINE). ROOTS MAY BE SEVERED USING THE CLEAN EDGE OF A STRAIGHT EXCAVATOR BUCKET UNDER SUPERVISION OF AN ISA CERTIFIED ARBORIST.
 - NO ATTEMPTS TO CUT EXISTING ROOTS WITH THE DIGGING BUCKET OF ANY HEAVY MACHINERY WILL BE PERMITTED AS IT CAN CAUSE THE ROOTS TO TEAR AND PULL AND BE HARMFUL TO ROOT REGENERATION AND RECOVERY.
 - ANY EXPOSED ROOTS OF A TREE TO BE PRESERVED WITH A DIAMETER GREATER THAN 2.5CM (1 INCH) SHALL BE PRUNED BACK TO THE SOIL FACE.
 - AN EXCAVATION AREA WITHIN THE TPZ SHALL BE BACKFILLED IMMEDIATELY AND/OR ROOTS SHALL BE KEPT CONSTANTLY MOIST WITH BURLAP COVERED WITH WHITE PLASTIC AND CHECKED A MINIMUM OF 2 TIMES A DAY, FOR A MAXIMUM OF 48 HOURS. IF ROOTS ARE TO BE EXPOSED FOR A PERIOD GREATER THAN 48 HOURS, THE EXPOSED AREA SHALL BE COVERED WITH A MINIMUM OF 150 MM (6 INCHES) OF MULCH AND MAINTAINED IN A MOIST CONDITION DURING CONSTRUCTION UNTIL THE AREA CAN BE PROPERLY BACKFILLED.
- TREES SHALL NOT HAVE ANY RIGGING CABLES, FENCING, SIGNAGE OR HARDWARE OF ANY SORT ATTACHED OR WRAPPED AROUND THEM.
- NO CONTAMINANTS OR TOXIC MATERIALS SHALL BE DUMPED OR FLUSHED WHERE THEY MAY COME INTO CONTACT WITH THE FEEDER ROOTS OF TREES TO BE PRESERVED.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL AVOIDABLE DAMAGE TO PRESERVED TREES DURING ALL STAGES OF CONSTRUCTION.
- WATERING OR OTHER MAINTENANCE OF TREES TO BE PRESERVED MAY BE REQUIRED IF CONSTRUCTION ACTIVITIES ARE OBSERVED TO BE CAUSING STRESS OR IMPACTING HEALTH AS DETERMINED BY THE PROJECT ARBORIST.

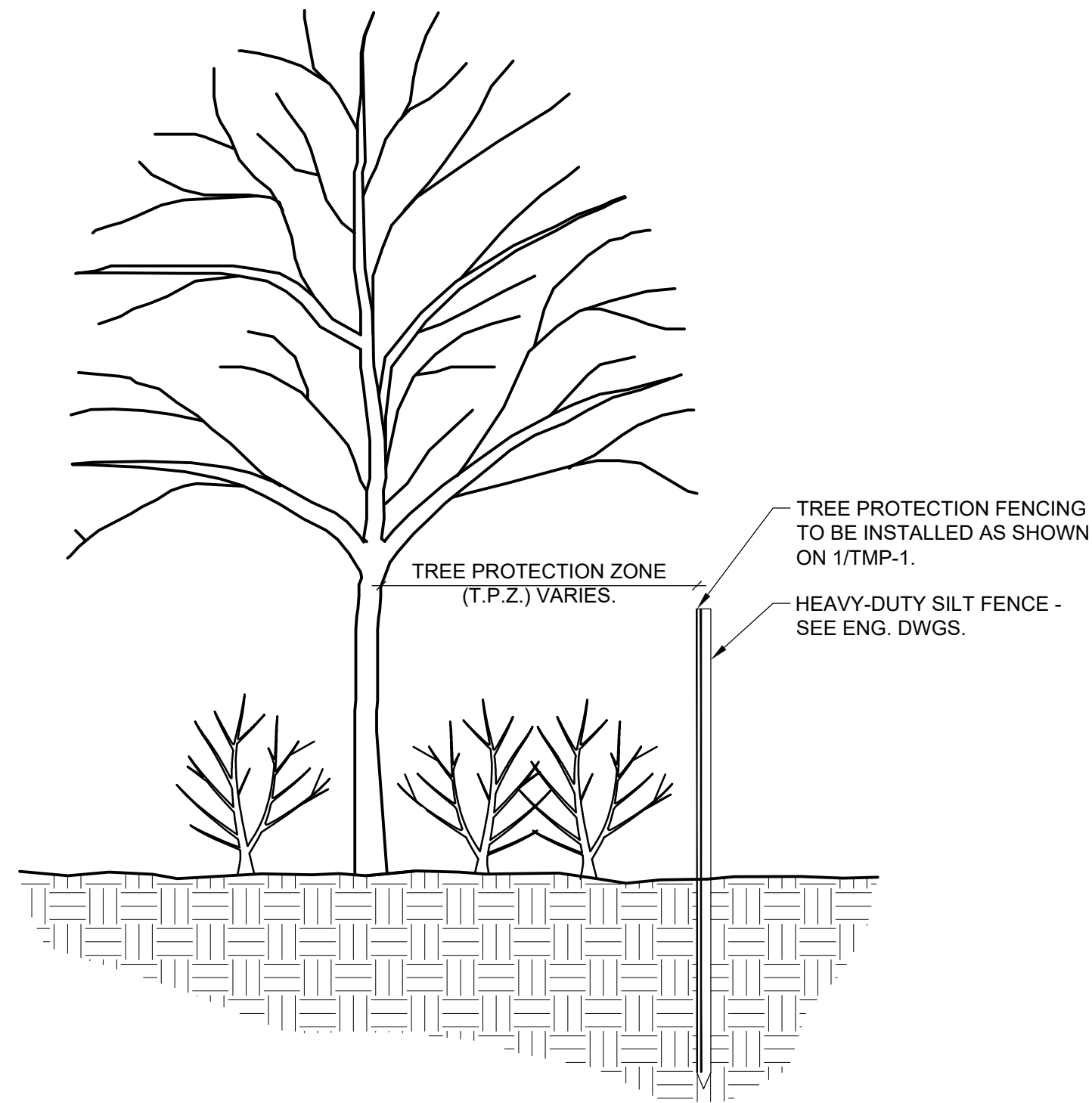
TREE REMOVALS

- PRIOR TO THE COMMENCEMENT OF TREE REMOVALS, ALL TREES DESIGNATED FOR REMOVAL MUST BE CLEARLY IDENTIFIED IN THE FIELD.
- WHERE POSSIBLE, REMOVALS, CHIPPING, AND/OR BRUSH REMOVALS IS TO BE COMPLETED OUTSIDE THE WINDOW OF APRIL 1 TO AUGUST 31. THIS WINDOW ACCOUNTS FOR ACTIVE BIRD NESTING AND GATHERING/ROOSTING PERIODS. WHERE REMOVALS MUST OCCUR WITHIN THE RESTRICTED ACTIVITY WINDOW, NEST AND ROOSTING HABITAT ASSESSMENTS TO PROTECT SPECIES PROTECTED UNDER THE MIGRATORY BIRDS CONVENTION ACT, 1994 AND ENDANGERED SPECIES ACT, 2007. THESE SURVEYS MUST BE COMPLETED BY A QUALIFIED BIOLOGIST OR ORNITHOLOGIST.
- TREES SHALL ALWAYS BE FELLED AWAY FROM ADJACENT PRESERVED TREES TO PREVENT AVOIDABLE DAMAGE TO THE CROWNS AND STEMS.



LEGEND

- PROPERTY BOUNDARY
- SETBACK
- EDGE OF VEGETATION TO BE RETAINED AND PROTECTED
- TREE PROTECTION FENCE
- EXISTING DECIDUOUS TREE TO BE REMOVED
- EXISTING CONIFEROUS TREE TO BE REMOVED
- EXISTING DECIDUOUS TREE TO BE RETAINED OR PROTECTED
- TREE TO BE PRESERVED
- TREE IDENTIFICATION TAGS
- TREE TO BE REMOVED
- EXISTING CHAIN LINK FENCE
- EXISTING HYDRO POLE
- EXISTING FIRE HYDRANT
- UNDERGROUND SERVICES
- SWALE OR DITCH
- EXISTING RELOCATED CHAIN LINK FENCE



2 TREE PROTECTION FENCE

N.T.S.

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- DO NOT SCALE DRAWINGS.

- NOTES:
- TOPOGRAPHIC SURVEY PROVIDED AND COMPLETED BY SMC GEOMATICS INC. (COMPLETED ON MARCH 19, 2024).
 - ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

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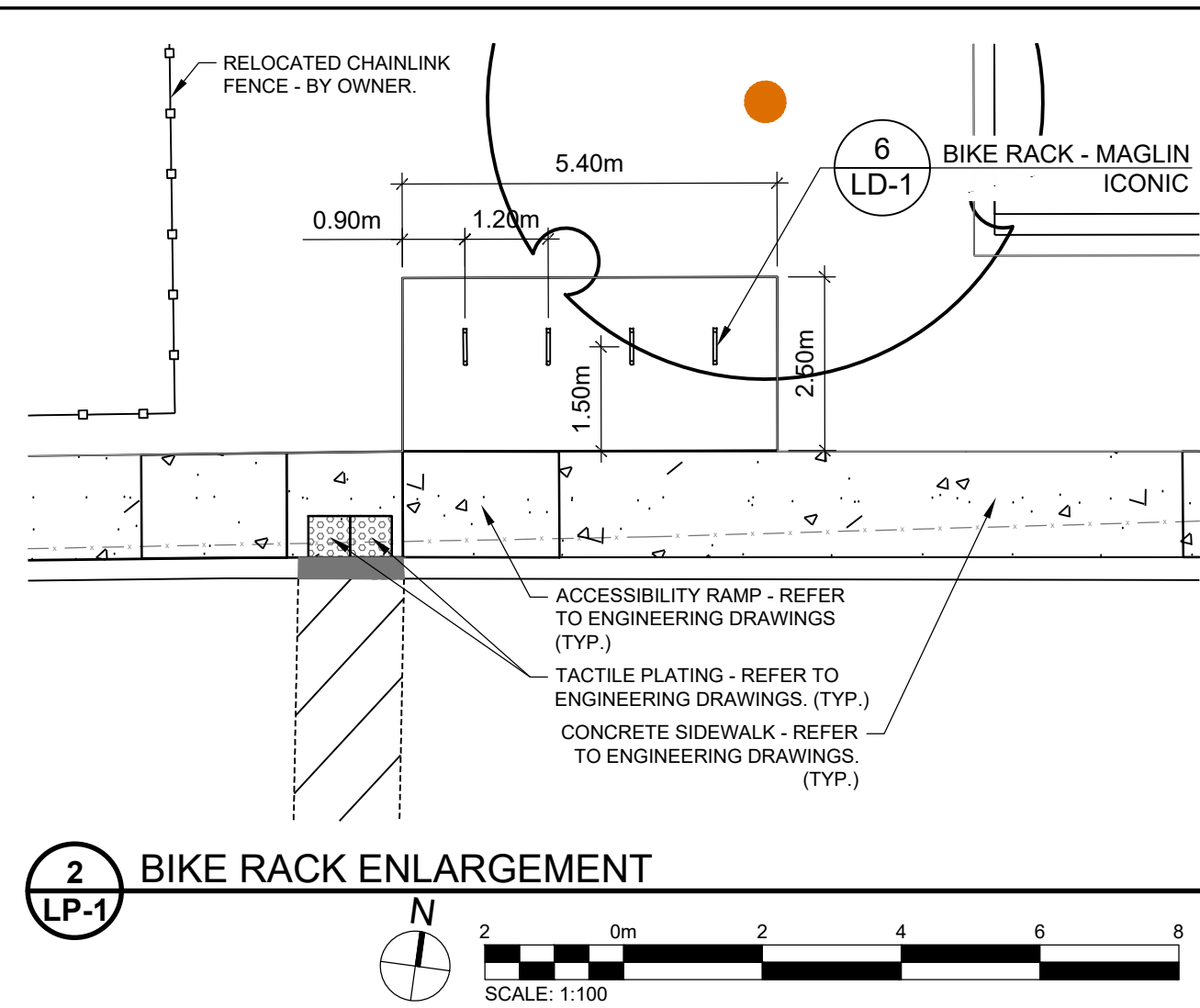
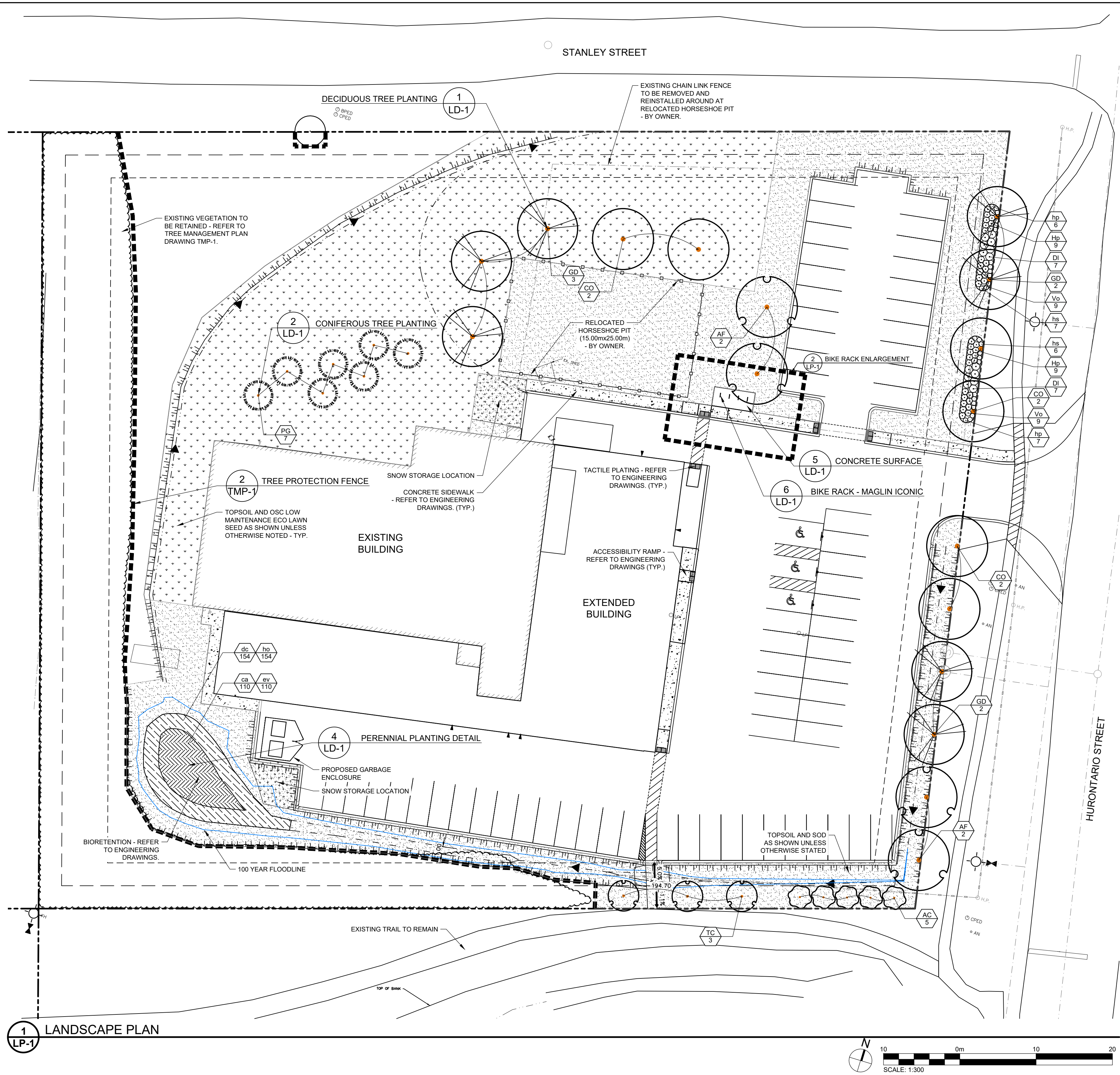
GEORGIAN BOWL
TOWN OF COLLINGWOOD

TREE MANAGEMENT PLAN



Drawn By	K.C.	Design By	K.C./M.C.	Project	2841-7365
Check By	M.C.	Check By		Drawing	TMP-1

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SEED MIX			
KEY	BOTANICAL NAME	COMMON NAME	%
OSC LOW MAINTENANCE ECO LAWN MIXTURE (OSC 8340)			
•	Festuca ovina	Hard Fescue	35%
•	Festuca rubra	Chewings Fescue	35%
•	Festuca rubra	Creeping Red Fescue	20%
•	Lolium perenne	Perennial Ryegrass	10%
Refer to Nurse Crop Schedule for cover crop and application rate. Application rate: 25 kg/ha			

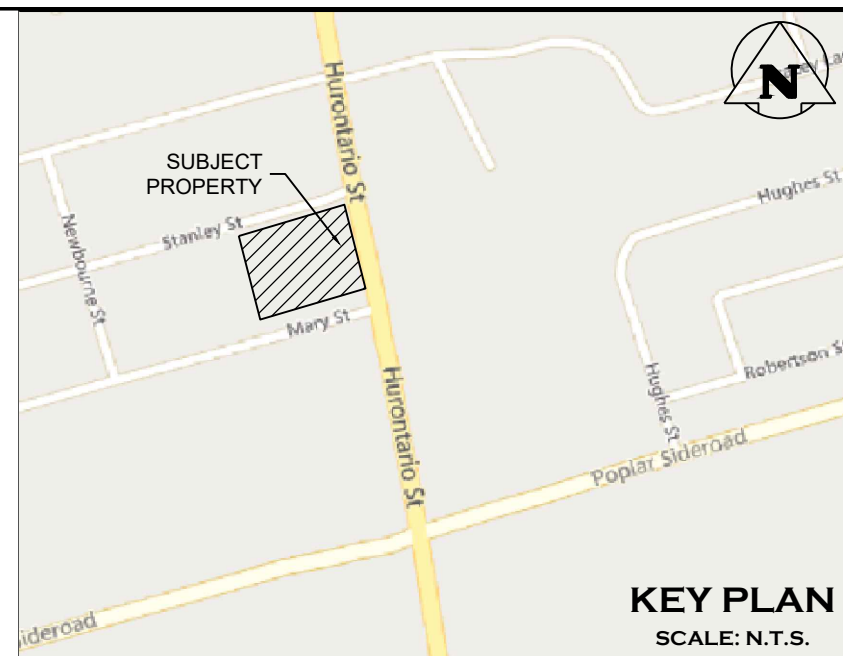
NURSE CROP SCHEDULE			
KEY	BOTANICAL NAME	COMMON NAME	%
SUMMER-FALL COVER			
•	Avena sativa	Oats	50%
•	Lolium multiflorum	Annual rye	50%
FALL-SPRING COVER			
•	Triticum aestivum	Winter Wheat	50%
•	Secale cereale	Winter Rye	50%
Sow at 25kg/ha			

- NOTES:**
- FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LD-1.
 - TREE PITS OR PLANTING BEDS WITHIN 1.0m OF UNDERGROUND UTILITIES ARE TO BE HAND DUG.
 - MINIMUM CLEARANCES FOR TREES ARE AS FOLLOWS:

MINIMUM TREE CLEARANCES	
FIRE HYDRANT	3.0m
DRIVEWAYS	2.0m
HYDRO TRANSFORMERS	3.0m
BELL OR CABLE PEDESTALS	1.0m
STREETLIGHT POLES	5.0m
UNDERGROUND SERVICES	1.0m

CANOPY COVERAGE CALCULATION SUMMARY		m2
Site Area		12295.9
30% Canopy Coverage Required		3688.8
Existing Canopy		1569.0
Proposed Canopy		2805.0
Total Canopy Coverage - 35.6%		4374.0

PLANT SCHEDULE						
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	
CONIFEROUS TREES						
PG	7	Picea glauca	White Spruce	150cm ht.	W.B.	
	7	TOTAL:				
DECIDUOUS TREES						
AF	4	Acer x freemanii 'Jeffersred'	Autumn Blaze® Maple	50mm cal.	W.B.	
AC	5	Amelanchier canadensis 'Glennform'	Rainbow Pillar® Canadian Serviceberry	50mm cal.	W.B.	
CO	6	Celtis occidentalis	Common Hackberry	50mm cal.	W.B.	
GD	7	Gymnocladus dioica 'Espresso'	Kentucky Coffeetree	50mm cal.	W.B.	
TC	3	Tilia cordata 'Corzam'	Corinthian® Littleleaf Linden	50mm cal.	W.B.	
	25	TOTAL:				
DECIDUOUS SHRUBS						
DI	14	Diervilla lonicera	Bush Honeysuckle	---	1 gal. pot	
Hp	18	Hypericum prolificum	Shrubby St. John's Wort	---	2 gal. pot	
Vo	18	Viburnum opulus 'Compactum'	Dwarf European Cranberry	---	3 gal. pot	
	50	TOTAL:				
PERENNIALS						
hp	13	Hemerocallis x 'Purple De Oro'	Purple De Oro Daylily	---	1 gal. pot	
hs	13	Hemerocallis x 'Stella de Oro'	Stella de Oro Daylily	---	1 gal. pot	
	26	TOTAL:				
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
GRASSES						
ca	110	Calamagrostis x acutiflora	Feather Reed Grass	1 gal.	1 gal. pot	550 mm
dc	154	Deschampsia cespitosa	Tufted Hair Grass	1 gal.	1 gal. pot	550 mm
ev	110	Elymus virginicus	Virginia Wild Rye	1 gal.	1 gal. pot	550 mm
ho	154	Hierochloa odorata	Sweetgrass	1 gal.	1 gal. pot	550 mm
	528	TOTAL:				



LEGEND	
---	PROPERTY BOUNDARY
---	SETBACK
+	FIRE HYDRANT
---	UNDERGROUND SERVICES
---	SWALE OR DITCH
---	EDGE OF VEGETATION TO BE RETAINED AND PROTECTED
○	EXISTING DECIDUOUS TREE TO BE RETAINED OR PROTECTED
○	DECIDUOUS TREE
○	DECIDUOUS SHRUB
■	PERENNIALS & GROUNDCOVERS
SE QTY	PLANT REFERENCE
---	TOPSOIL & SOD
---	TOPSOIL & OSC LOW MAINTENANCE ECO LAWN MIX
---	BICYCLE RACK

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Team

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LANDSCAPE ARCHITECT

LANDSCAPE ARCHITECT

Project

Drawing

GEORGIAN BOWL
TOWN OF COLLINGWOOD

LANDSCAPE PLAN



Drawn By	K.C.	Design By	K.C./A.P.	Project	2841-7365
Check By	A.P.	Check By		Drawing	LP-1

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