

EDGE MANAGEMENT METHODS

TREE PROTECTION HOARDING:
PRE-CONSTRUCTION

- PRIOR TO CONSTRUCTION, ALL TREES TO BE PRESERVED SHALL BE PROTECTED WITH CITY OF BARRIE APPROVED TREE PROTECTION HOARDING & SILTATION CONTROL FENCE. (SEE APPENDIX B TREE PROTECTION HOARDING DETAIL, SILTATION CONTROL FENCE AND LIMIT OF TREE PRESERVATION FOR DEVELOPMENT APPROVALS). THE HOARDING IS TO BE INSTALLED ALONG THE EDGE OF THE SURVEYED AND STAKED LIMIT OF DEVELOPMENT. THIS HOARDING SHALL BE MAINTAINED FOR THE DURATION OF SITE CONSTRUCTION. IT SHALL NOT BE REMOVED UNTIL AUTHORISED BY THE LANDSCAPE ARCHITECT AND CITY OF BARRIE.

- THE LIMITS OF TREE PROTECTION HOARDING SHALL BE CONFIRMED IN THE FIELD BY THE LANDSCAPE ARCHITECT AND THE CITY OF BARRIE.

- ANY HAZARD TREES OR TREES THAT HAVE BEEN IDENTIFIED BY THE LANDSCAPE ARCHITECT AND CITY STAFF FOR PRUNING OR REMOVAL WITHIN THE PRESERVATION ZONES SHALL BE REMOVED OR PRUNED BY A QUALIFIED ARBORIST UNDER THE DIRECT SUPERVISION OF THE LANDSCAPE ARCHITECT. THESE TREES SHALL BE REMOVED IN SECTIONS OR AS OTHERWISE REQUIRED TO PREVENT DAMAGE TO EXISTING TREES. THE STEMS ARE TO BE SECTIONED AND THE CANOPY BRANCHES ARE TO BE REMOVED. TREES TO BE REMOVED FROM THESE LOCATIONS SHALL BE CUT FLUSH WITH GRADE (UNLESS THEY QUALIFY AS POTENTIAL BAT ROOSTING HABITAT AS DESCRIBED IN THE "HAZARD TREES" SECTION BELOW). TREES TO BE REMOVED FROM WITHIN THE PRESERVATION ZONES SHALL BE CONFIRMED ON SITE BY THE LANDSCAPE ARCHITECT AND CITY OF BARRIE.

- WHERE LIMBS OR PORTIONS OF TREES ARE TO BE PRUNED TO REMOVE DEADWOOD OR ACCOMMODATE CONSTRUCTION, THEY WILL BE REMOVED BY A QUALIFIED ARBORIST IN ACCORDANCE WITH ACCEPTABLE ARBORICULTURAL PRACTICE UNDER THE DIRECT SUPERVISION OF THE LANDSCAPE ARCHITECT.

- ALL GARBAGE AND FOREIGN DEBRIS SHALL BE REMOVED FROM THE TREE PRESERVATION ZONES PRIOR TO CONSTRUCTION. REMOVAL OF DEBRIS SHALL BE BY HAND ONLY.

- ROUTES TAKEN FOR TREE REMOVAL EQUIPMENT MUST BE LIMITED TO WITHIN THE PROPOSED LIMITS OF DISTURBANCE. ANY MITIGATION WORKS WITHIN THE PROTECTED AREAS WHICH CANNOT BE ACCESSED THROUGH THE CONSTRUCTION ROUTES ARE TO BE COMPLETED BY HAND UNDER THE DIRECT SUPERVISION OF THE LANDSCAPE ARCHITECT.

DURING CONSTRUCTION

- AREAS WITHIN THE PROTECTIVE HOARDING SHALL REMAIN UNDISTURBED FOR THE DURATION OF CONSTRUCTION AND SHALL NOT BE USED FOR THE STORAGE OF EXCAVATED FILL, BUILDING MATERIALS, STRUCTURES OR EQUIPMENT.

- NO WORKS ARE PERMITTED WITHIN THE PRESERVATION ZONE(S).

- WHERE ROOT SYSTEMS OF TREES TO BE PRESERVED ARE EXPOSED OR DAMAGED BY CONSTRUCTION WORK, THEY ARE TO BE PRUNED NEATLY BY A QUALIFIED ARBORIST IN ACCORDANCE WITH ACCEPTABLE ARBORICULTURAL PRACTICE. THE EXPOSED AREA SHALL BE BACKFILLED WITH APPROPRIATE MATERIAL TO PREVENT DESICCATION.

- THE LANDSCAPE ARCHITECT MUST BE NOTIFIED PRIOR TO THE TEMPORARY REMOVAL OF A SECTION OF HOARDING TO GAIN ACCESS FOR ANY REASON.

- NO CABLES OF ANY TYPE SHALL BE WRAPPED AROUND OR INSTALLED ON TREES TO BE PRESERVED. NO CONTAMINANTS WILL BE DUMPED OR FLUSHED WHERE FEEDER ROOTS OF TREES EXIST.

- PROTECTIVE HOARDING MAY BE REMOVED FOLLOWING ROUGH TOPSOIL GRADING TO PERMIT PLANTING, FINE GRADING, SEEDING OR SODDING AS REQUIRED DURING FINAL LANDSCAPING. THIS WORK SHALL BE UNDERTAKEN UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT TO ENSURE THAT EXISTING TREES REMAIN UNDAMAGED.

- LAYOUT AND INSTALLATION OF PLANTING WITHIN TREE PROTECTION ZONES SHALL BE SUPERVISED BY THE LANDSCAPE ARCHITECT.

POST-CONSTRUCTION

- FOLLOWING CONSTRUCTION WORKS, THE LIMITS OF THE PRESERVATION ZONES SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECT. ANY REMAINING DEAD, DISEASED OR HAZARDOUS LIMBS OR TREES ARE TO BE REMOVED BY A QUALIFIED ARBORIST AS DIRECTED BY THE LANDSCAPE ARCHITECT.

TO ENSURE THAT THE TREE PRESERVATION AND PROTECTION MEASURES ARE PROPERLY IMPLEMENTED, THE LANDSCAPE ARCHITECT SHALL BE INVOLVED AT THE FOLLOWING STAGES OF CONSTRUCTION IN THE VICINITY OF THE TREE PRESERVATION ZONES:

1. LAYOUT OF PROTECTIVE HOARDING.
2. OVERSEE INSTALLATION OF PROTECTION HOARDING
3. DURING PRUNING AND REMOVAL OF EXISTING TREES.
4. DURING CLEAN-UP OF DEBRIS
5. PERIODICALLY DURING CONSTRUCTION TO ENSURE THAT HOARDING REMAINS IN PLACE AND NO DAMAGE OCCURS TO TREES TO BE PRESERVED.
6. UPON FINE GRADING OF SITE AND DURING LAYOUT OF PLANTING, OR OTHER LANDSCAPE WORKS.
7. UPON COMPLETION OF CONSTRUCTION ACTIVITIES.
8. A FIELD LOG WILL BE REQUIRED BY THE LANDSCAPE ARCHITECT THROUGHOUT THE CONSTRUCTION PROCESS.

EXISTING TREE REMOVALS:

- ALL TREE REMOVAL WORKS ARE TO TAKE PLACE OUTSIDE OF BIRD BREEDING SEASON AS PER CANADA WILDLIFE SERVICES REQUIREMENTS.

- ANY TREE REMOVALS AND PRUNING WORKS BEYOND THE LIMIT OF DEVELOPMENT ARE TO BE COMPLETED UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT, CITY OF BARRIE AND LSRA (IF REQUESTED). THE CONTRACTOR PERFORMING THE WORKS AS NOTED IN THIS REPORT SHOULD BE AN ARBORICULTURAL FIRM THAT EMPLOYS ISA CERTIFIED ARBORISTS. ALL WORKS SHOULD BE COMPLETED USING LOW IMPACT METHODS. LARGE FORESTRY EQUIPMENT, SUCH AS SKIDDERS AND BUCKET TRUCKS WILL NOT BE PERMITTED WITHIN THE ROOT PROTECTION ZONES OF EDGE TREES. WHERE POSSIBLE, REMOVAL OF BRUSH AND SMALL LIMBS SHALL BE COMPLETED BY HAND. LARGE LIMBS MAY BE CUT IN 2.8 TO 3.0M LENGTHS AND LEFT ON THE WOODLOT FLOOR. SMALL TRACK-STEER AND MINI-EXCAVATOR ACCESS WILL BE PERMITTED TO REMOVE LARGE LIMBS WHERE NECESSARY UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT. NO MACHINERY ACCESS SHALL BE PERMITTED WITHIN THE UNAFFECTED WOODLOT AREAS AS DEFINED IN THE EDGE MANAGEMENT PLAN.

HAZARD TREES:

ONCE THE LIMITS OF THE DEVELOPMENT AND TREE PROTECTION ZONES HAVE BEEN SURVEYED ON SITE AND THE REMOVAL PERMIT HAS BEEN ISSUED, A PART 1 REVIEW OF THE HAZARD TREES WITHIN THE TEN METRE EDGE MANAGEMENT AREA WILL BE CONDUCTED BY THE CITY OF BARRIE. HAZARD TREES ARE TO BE FLAGGED FOR REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO THE SITE INSPECTION BY CITY STAFF. THIS REVIEW IS TO IDENTIFY ANY HAZARD TREES THAT MAY POSE A THREAT TO THE NEW RESIDENTIAL PROPERTIES. ANY IDENTIFIED TREE HAZARDS ARE TO BE MITIGATED. THIS MAY MEAN TO REMOVE THE TREE ALTOGETHER OR CUT THE TREE TO A LENGTH THAT IS SHORTER THAN THE STRIKING DISTANCE OF PRIVATE PROPERTY AND FENCES. BASED ON THE SPECIES AT RISK ASSESSMENT PREPARED BY AZIMUTH, SEVERAL POTENTIAL BAT ROOSTING SITES WERE IDENTIFIED BEYOND THE LIMIT OF DEVELOPMENT. THEIR REPORT STATES THAT BATS WILL ROOST IN SNAGS AND OTHER TREES (GREATER THAN 25CM DBH) IN A STATE OF DECAY AND DECLINE. ANY TREES THAT MATCH THIS DESCRIPTION WILL BE CLASSIFIED AS "WILDLIFE CAVITY TREES". RECOMMENDATIONS FOR THESE TREES WILL BE MADE IN ORDER TO MITIGATE THE HAZARD TO ADJACENT PROPERTIES WHILE MAINTAINING ROOSTING HABITAT FOR BATS WHERE POSSIBLE.

HAZARD TREE REMOVAL:

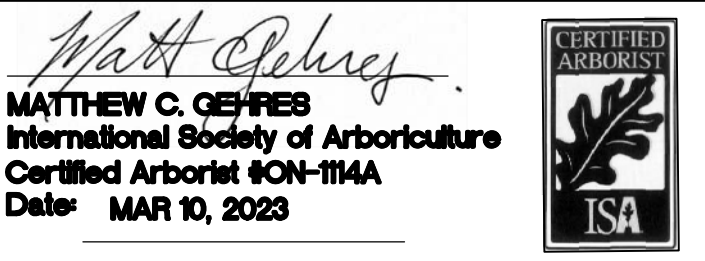
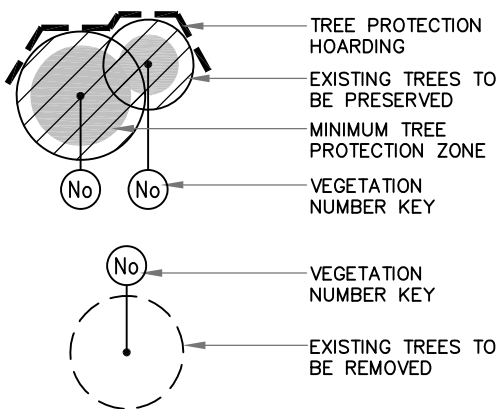
- ALL TREES CLASSIFIED AS "WILDLIFE CAVITY TREES" WILL BE ASSESSED SEPARATELY IN ORDER TO DETERMINE IF THE HAZARD CAN BE MITIGATED WHILE MAINTAINING THE ROOSTING CAPACITY FOR BATS.
- HAZARD TREES TO BE REMOVED ARE TO BE FELLED AT AN APPROPRIATE HEIGHT THAT DO NOT POSE A HAZARD AND CUT INTO MANAGEABLE LENGTHS AND SPREAD ALONG THE WOODLOT FLOOR. THESE LENGTHS OF WOOD ARE NOT TO BE PILED. THE CROWNS AND BRANCHES ARE TO BE REMOVED OFF SITE.
- ALL TREE REMOVAL WORKS WILL NEED TO BE COMPLETED OUTSIDE OF THE MIGRATORY BIRD BREEDING PERIOD AS NOTED BY THE CANADIAN WILDLIFE SERVICE.
- HAZARD TREES ARE TO BE REMOVED BY A QUALIFIED ARBORIST UTILIZING CURRENT ARBORICULTURAL BEST PRACTICES. CARE SHOULD BE TAKEN TO MINIMIZE ANY ADVERSE EFFECTS ON ADJACENT TREES TO BE RETAINED.

RESTORATION AND EDGE MANAGEMENT RE-PLANTING

IN THE EVENT THAT THE REMOVAL OR MITIGATION OF HAZARD TREES CREATES AN OPENING WITHIN THE ADJACENT TREE CANOPY, AN EDGE MANAGEMENT PLANTING STRATEGY WILL BE PROPOSED AS PART OF THIS STUDY THAT IS INTENDED TO SATISFY THE ANTICIPATED REQUIREMENTS OF THE CITY OF BARRIE AND THE LSRA. AREAS ALONG THE EDGE MANAGEMENT LIMIT TO BE RESTORED WILL BE IDENTIFIED DURING THE PART 1 AND/OR PART 2 CLEARANCE INSPECTION FOR THE INCORPORATION INTO THE GENERAL LANDSCAPE PLANS FOR THE DEVELOPMENT SITE. PLANTINGS WILL NEED TO OCCUR PRIOR TO INSTALLATION OF CHAIN LINK FENCING WHICH IS REQUIRED TO BE INSTALLED PRIOR TO INSTALLATION OF FOUNDATIONS FOR ALL ADJACENT LOTS. IN ADDITION, THE CITY HAS STATED THAT AN ADDITIONAL \$30,000.00 IN RESTORATION PLANTING IS REQUIRED FOR THIS DEVELOPMENT OVER AND ABOVE STANDARD REQUIREMENTS. THIS MAY BE UTILIZED IN PART OR IN WHOLE TO BOLSTER THE EDGE MANAGEMENT PRACTICES.

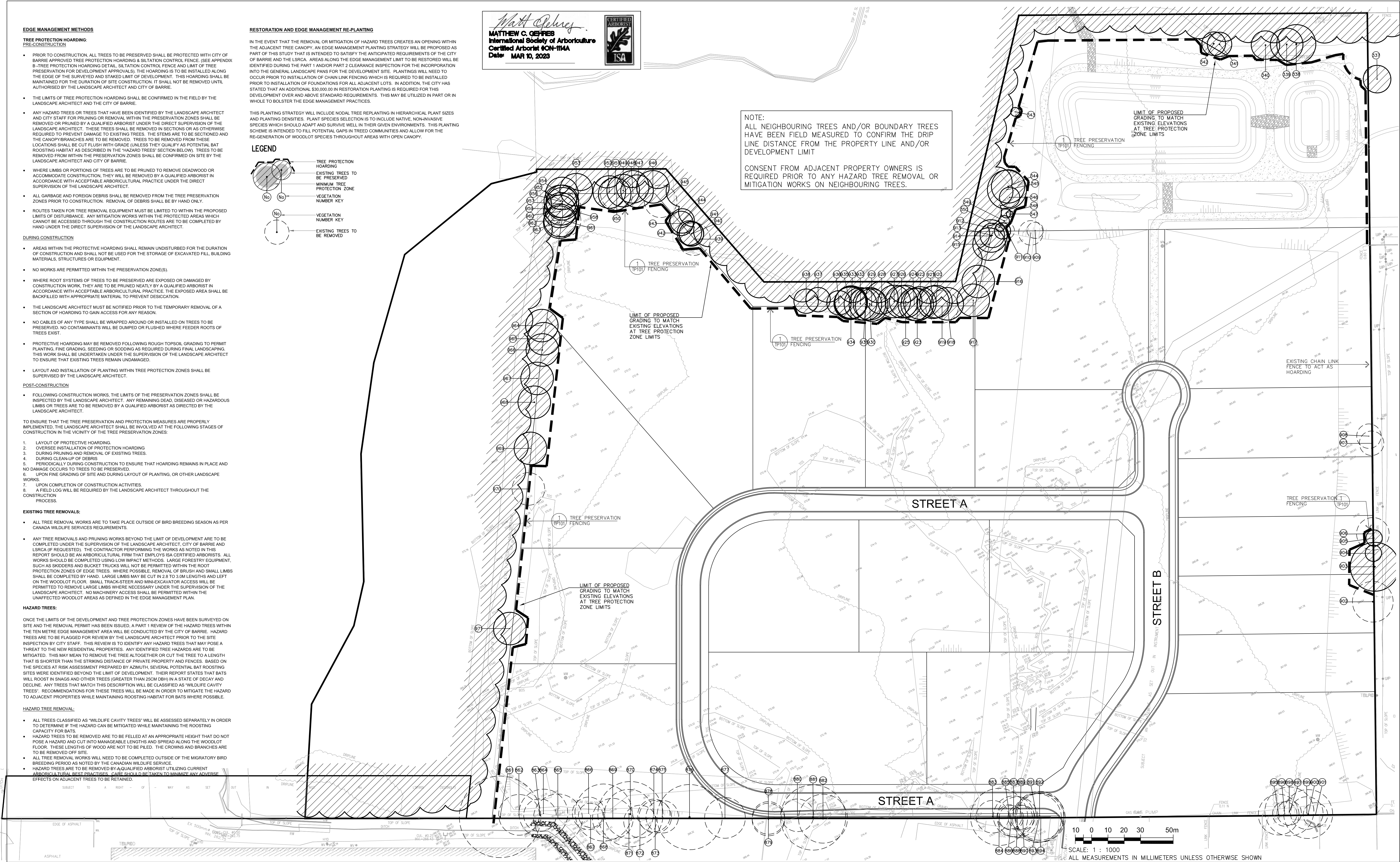
THIS PLANTING STRATEGY WILL INCLUDE NODAL TREE REPLANTING IN HIERARCHICAL PLANT SIZES AND PLANTING DENSITIES. PLANT SPECIES SELECTION IS TO INCLUDE NATIVE, NON-INVASIVE SPECIES WHICH SHOULD ADAPT AND SURVIVE WELL IN THEIR GIVEN ENVIRONMENTS. THIS PLANTING SCHEME IS INTENDED TO FILL POTENTIAL GAPS IN TREAED COMMUNITIES AND ALLOW FOR THE RE-GENERATION OF WOODLOT SPECIES THROUGHOUT AREAS WITH OPEN CANOPY.

LEGEND



NOTE:
ALL NEIGHBOURING TREES AND/OR BOUNDARY TREES HAVE BEEN FIELD MEASURED TO CONFIRM THE DRIP LINE DISTANCE FROM THE PROPERTY LINE AND/OR DEVELOPMENT LIMIT

CONSENT FROM ADJACENT PROPERTY OWNERS IS REQUIRED PRIOR TO ANY HAZARD TREE REMOVAL OR MITIGATION WORKS ON NEIGHBOURING TREES.



10 0 10 20 30 50m

SCALE: 1 : 1000
ALL MEASUREMENTS IN MILLIMETERS UNLESS OTHERWISE SHOWN

It is the responsibility of the Contractor and/or Owner to ensure that the drawings with the latest revisions are used for construction.

NO.	REVISIONS	DATE	APPROVED	NO.	REVISIONS	DATE	APPROVED



CITY OF BARRIE
ACCEPTED

DATE:
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DIRECTOR OF ENGINEERING

PROPOSED SUBDIVISION

50 WELHAM, 80 BIG BAY POINT,
7131 5th SIDEROAD
CITY OF BARRIE
COUNTY OF SIMCOE

EXISTING TREE PRESERVATION
AND INVENTORY PLAN



ENGINEERING DEPARTMENT

SCALE	DESIGN	REVIEWED	B.B.	DRAWN	S.S.	DATE	AUGUST 2022	PROJECT NO.	22-5686
								SHEET NO.	TP100