

APPENDIX A

Figures

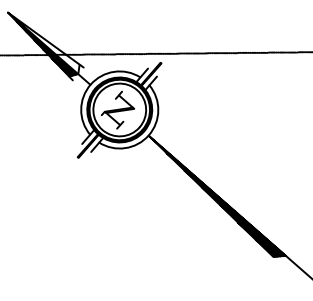


McKINLEY ENVIRONMENTAL SOLUTIONS

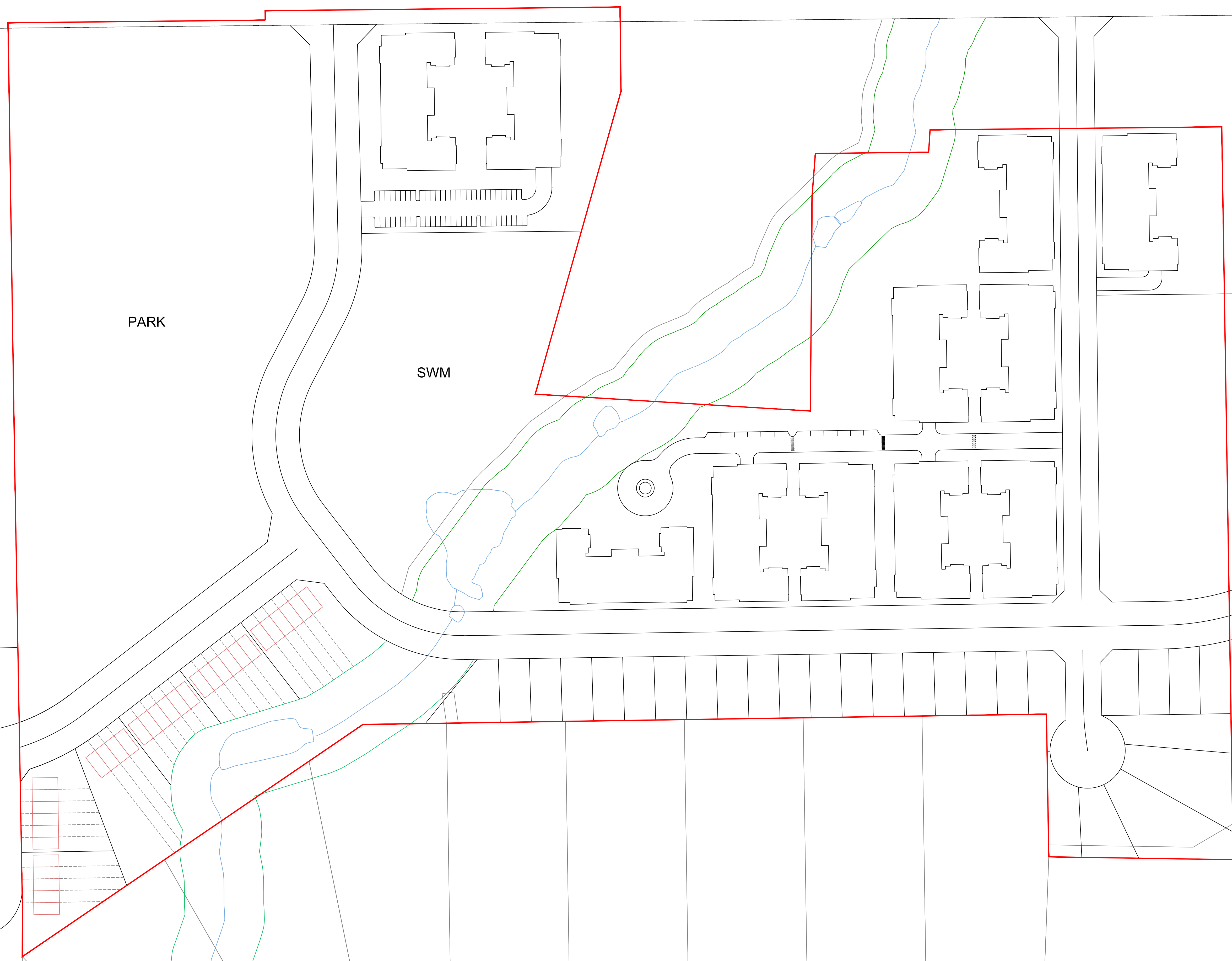
613-620-2255

mckinleyenvironmental@gmail.com

www.mckinleyenvironmental.com



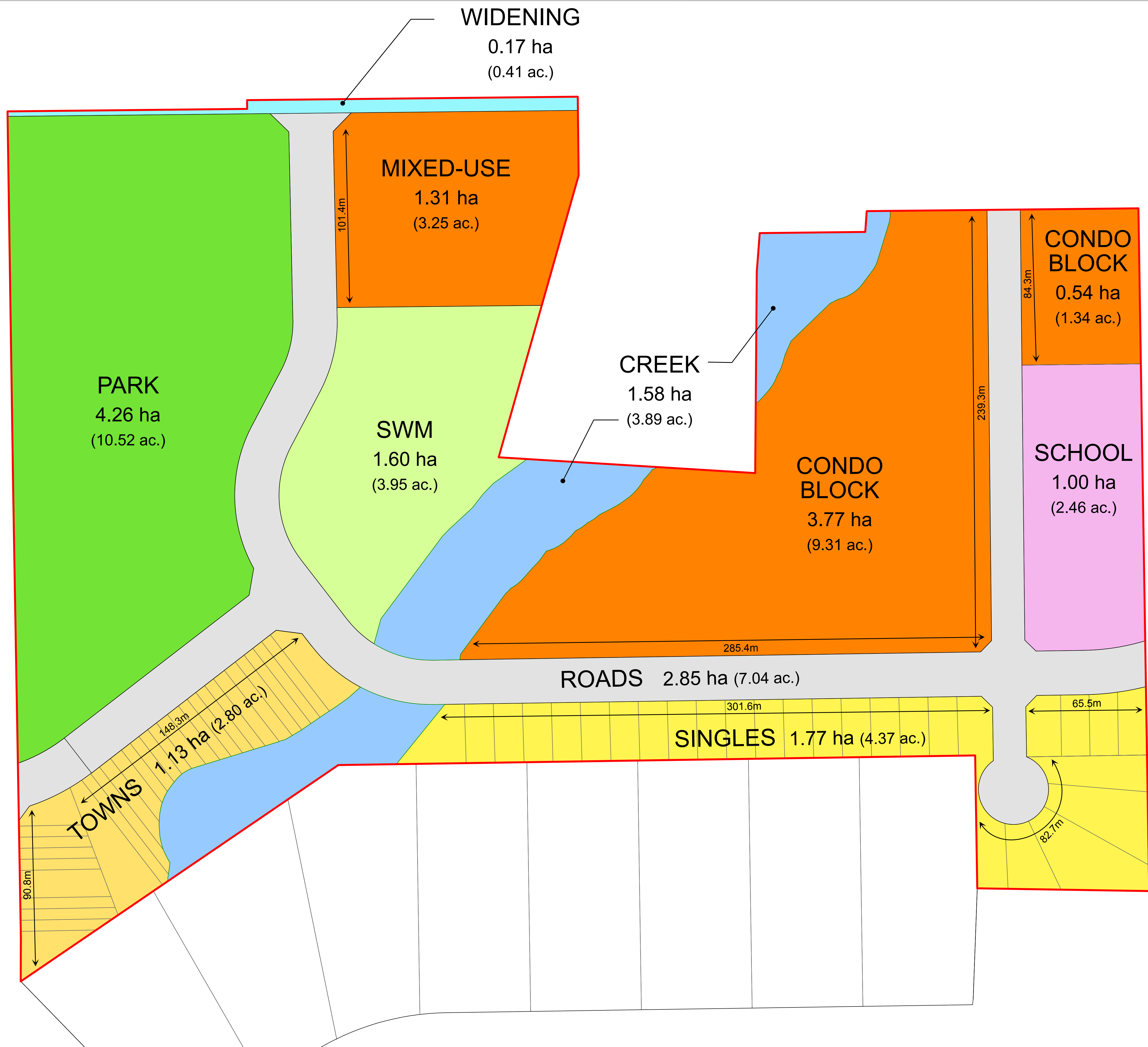
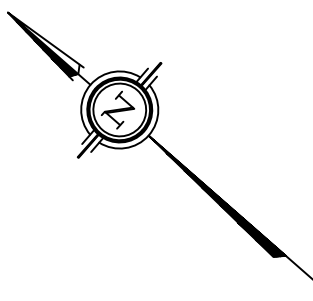
MARCH ROAD



PARK

SWM

KNUEA CONCEPT	
BRIGIL LANDS MARCH ROAD	
CONCEPT	BRIGIL "Proud to build a better quality of life"
2020-09-10	
1:1000	



KNUEA CONCEPT	
BRIGIL LANDS MARCH ROAD	
FIGURE	BRIGIL "Proud to build a better quality of life"
2019-10-28	
1:1000	

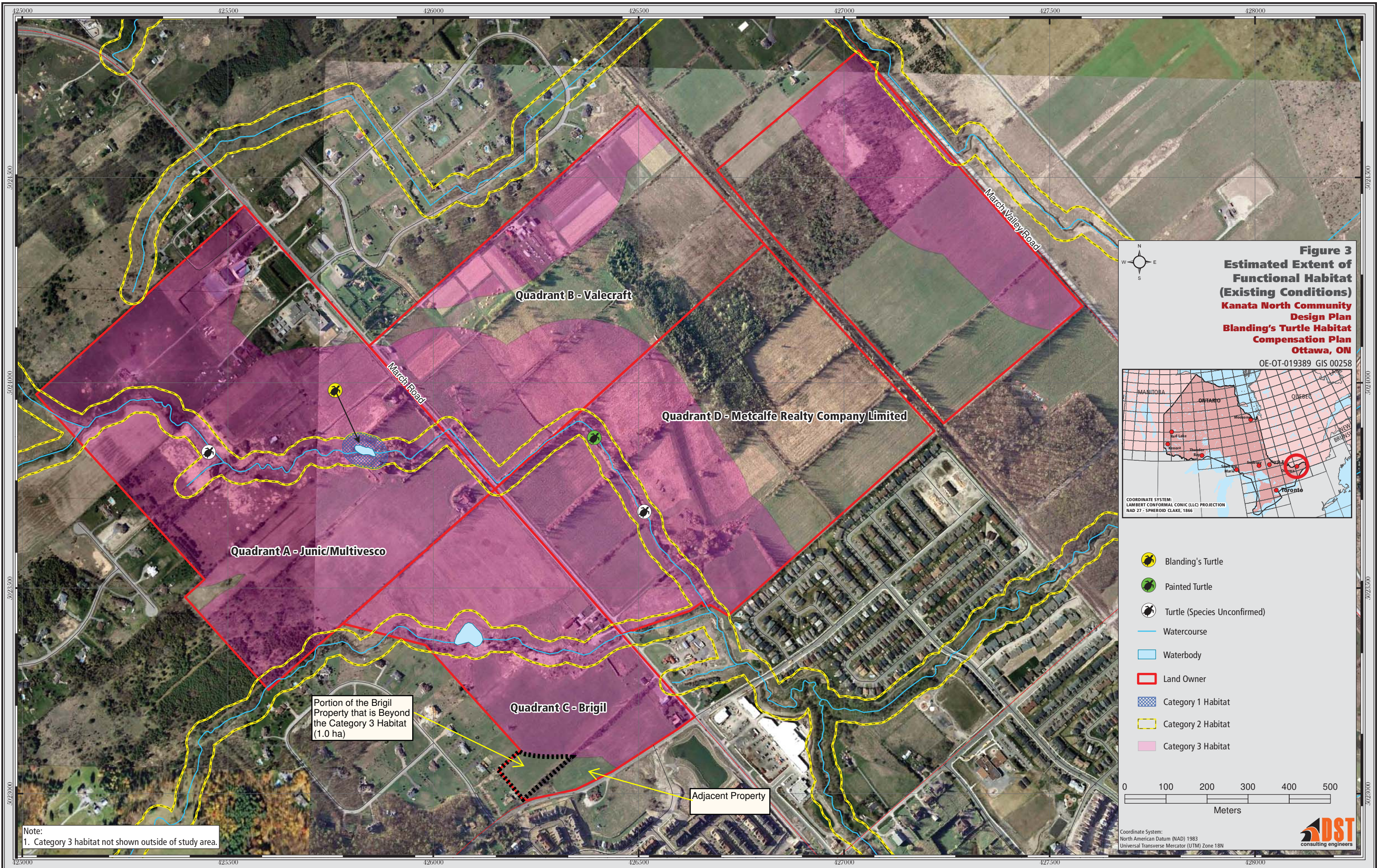
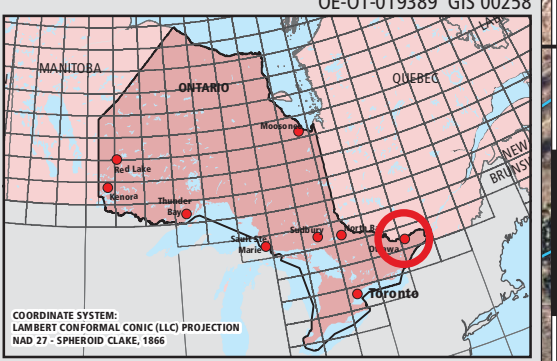


Figure 3
Estimated Extent of Functional Habitat (Existing Conditions)
Kanata North Community Design Plan
Blanding's Turtle Habitat Compensation Plan
Ottawa, ON



OE-OT-019389 GIS 00258

COORDINATE SYSTEM:
 LAMBERT CONFORMAL CONIC (LLC) PROJECTION
 NAD 27 - SPHEROID CLAKE, 1866

- Blanding's Turtle
- Painted Turtle
- Turtle (Species Unconfirmed)
- Watercourse
- Waterbody
- Land Owner
- Category 1 Habitat
- Category 2 Habitat
- Category 3 Habitat

0 100 200 300 400 500
 Meters

Portion of the Brigil Property that is Beyond the Category 3 Habitat (1.0 ha)

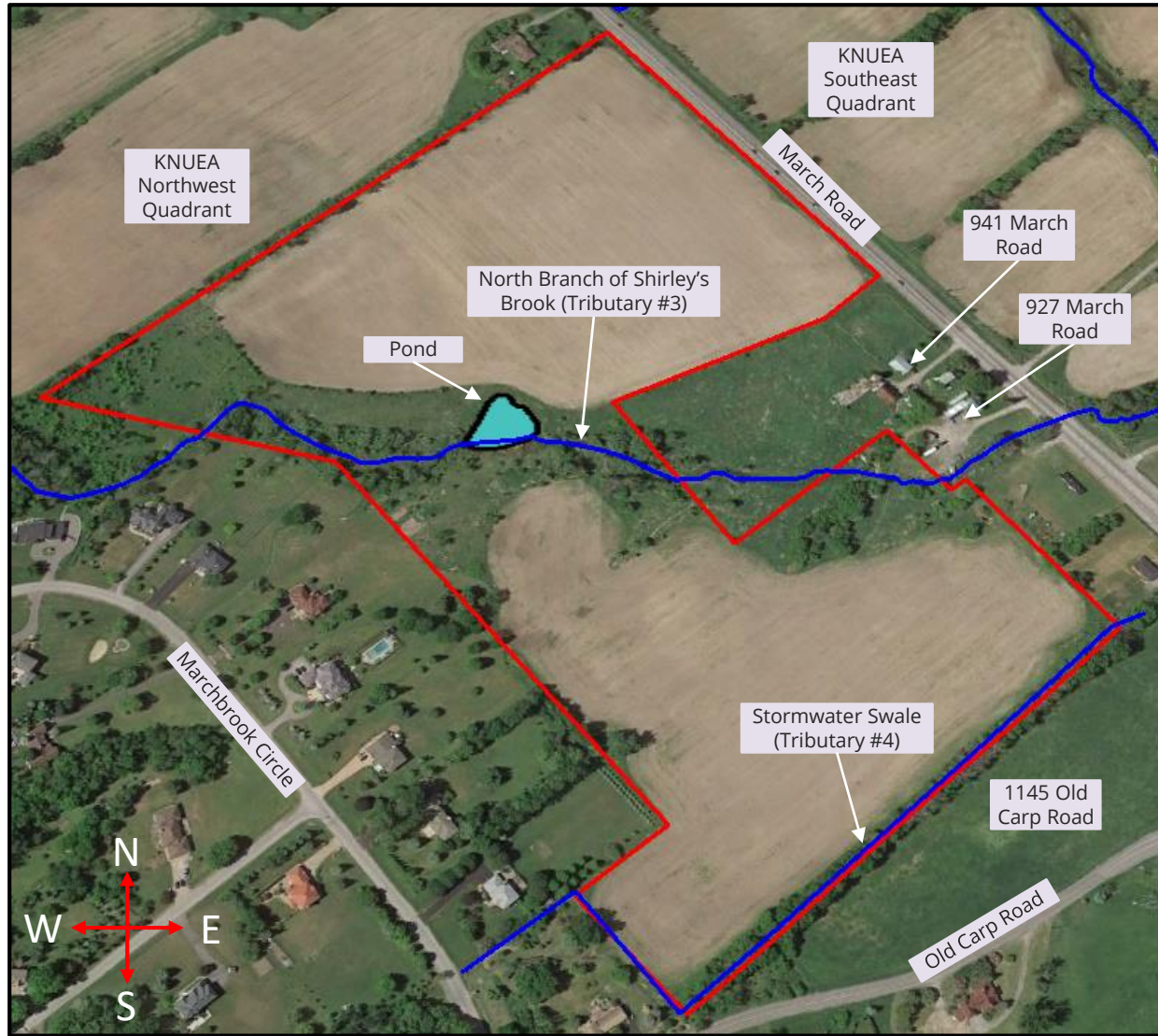
Adjacent Property

Note:
 1. Category 3 habitat not shown outside of study area.



FIGURE 1: SITE OVERVIEW

Brigil Kanata North Development Endangered Species Act Submission

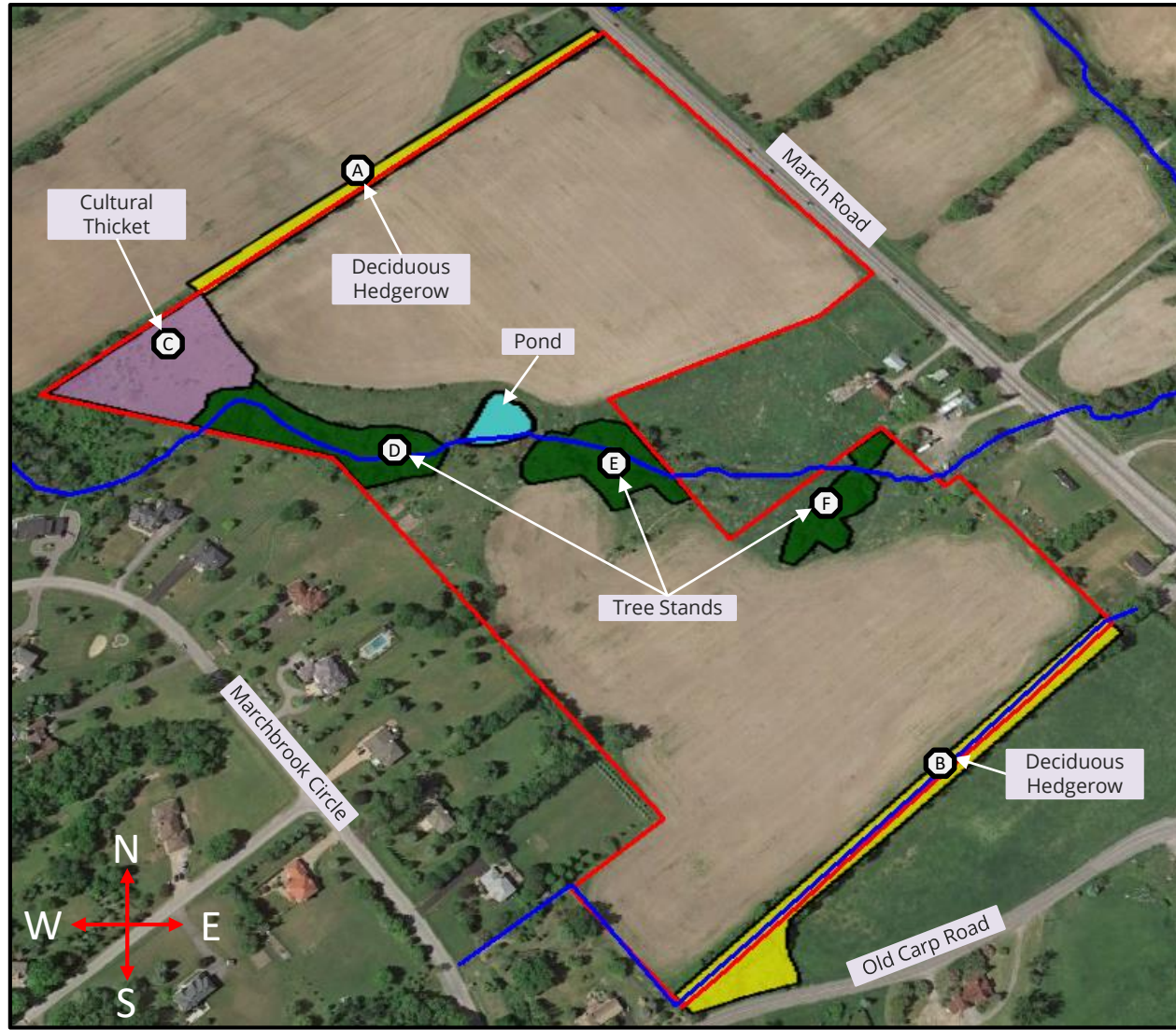


— Site Boundary — Tributaries of Shirley's Brook

Please Note:
This is not a
legal land
survey. All
dimensions
and locations
are shown as
approximate.

FIGURE 2: TREED HABITATS

Brigil Kanata North Development Endangered Species Act Submission



— - Site Boundary
 — - Tributaries of Shirley's Brook
 (A) - Vegetation Feature Number

Please Note:
This is not a
legal land
survey. All
dimensions
and locations
are shown as
approximate.

FIGURE 3: OPEN HABITATS

Brigil Kanata North Development
Endangered Species Act Submission

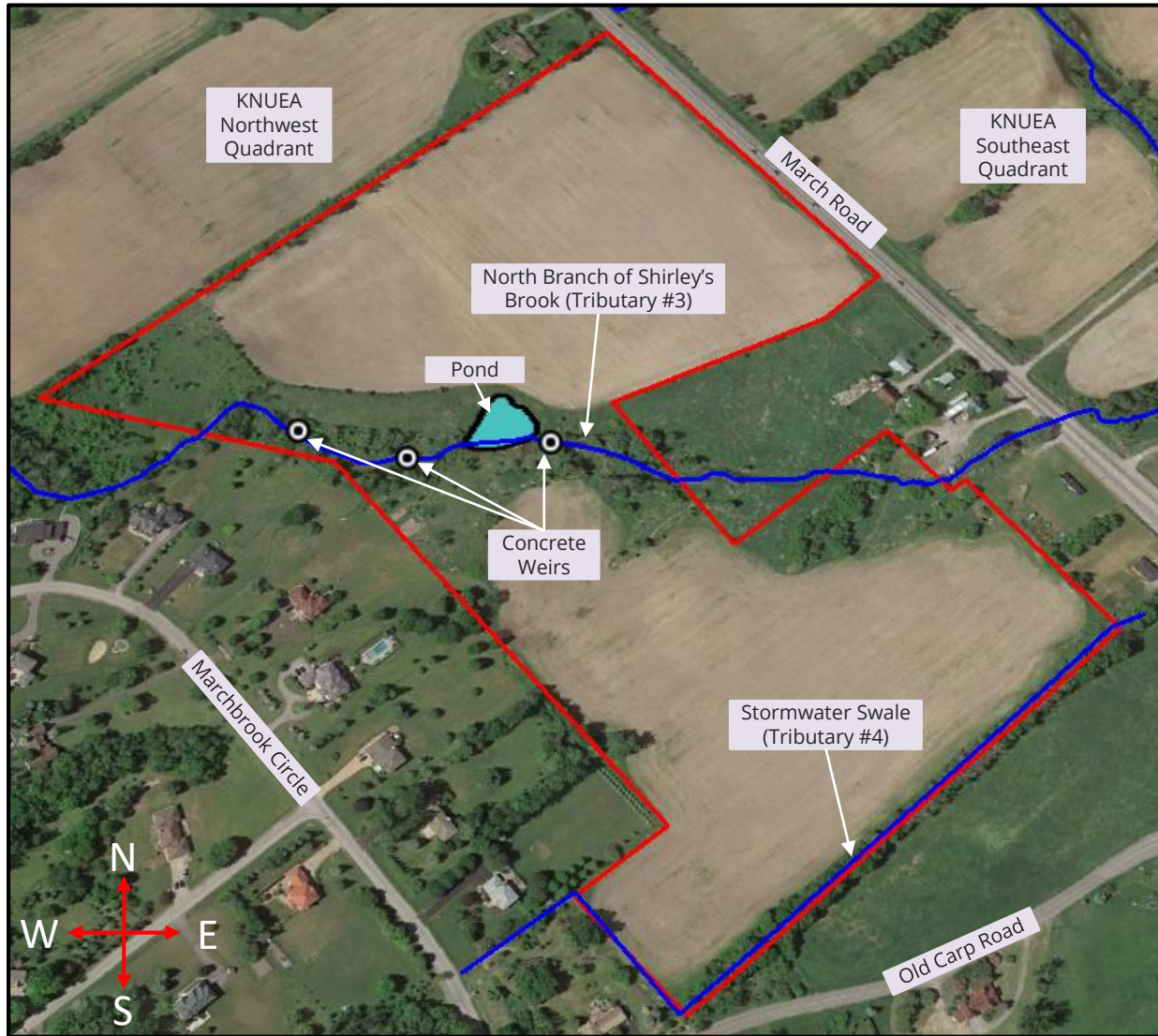


 - Site Boundary  - Tributaries of Shirley's Brook

Please Note:
This is not a
legal land
survey. All
dimensions
and locations
are shown as
approximate.

FIGURE 4: AQUATIC HABITATS

Brigil Kanata North Development Endangered Species Act Submission



—— - Site Boundary
 —— - Tributaries of Shirley's Brook

Please Note:
This is not a
legal land
survey. All
dimensions
and locations
are shown as
approximate.

FIGURE 5: BIRD SURVEY POINTS

Brigil Kanata North Development
Endangered Species Act Submission

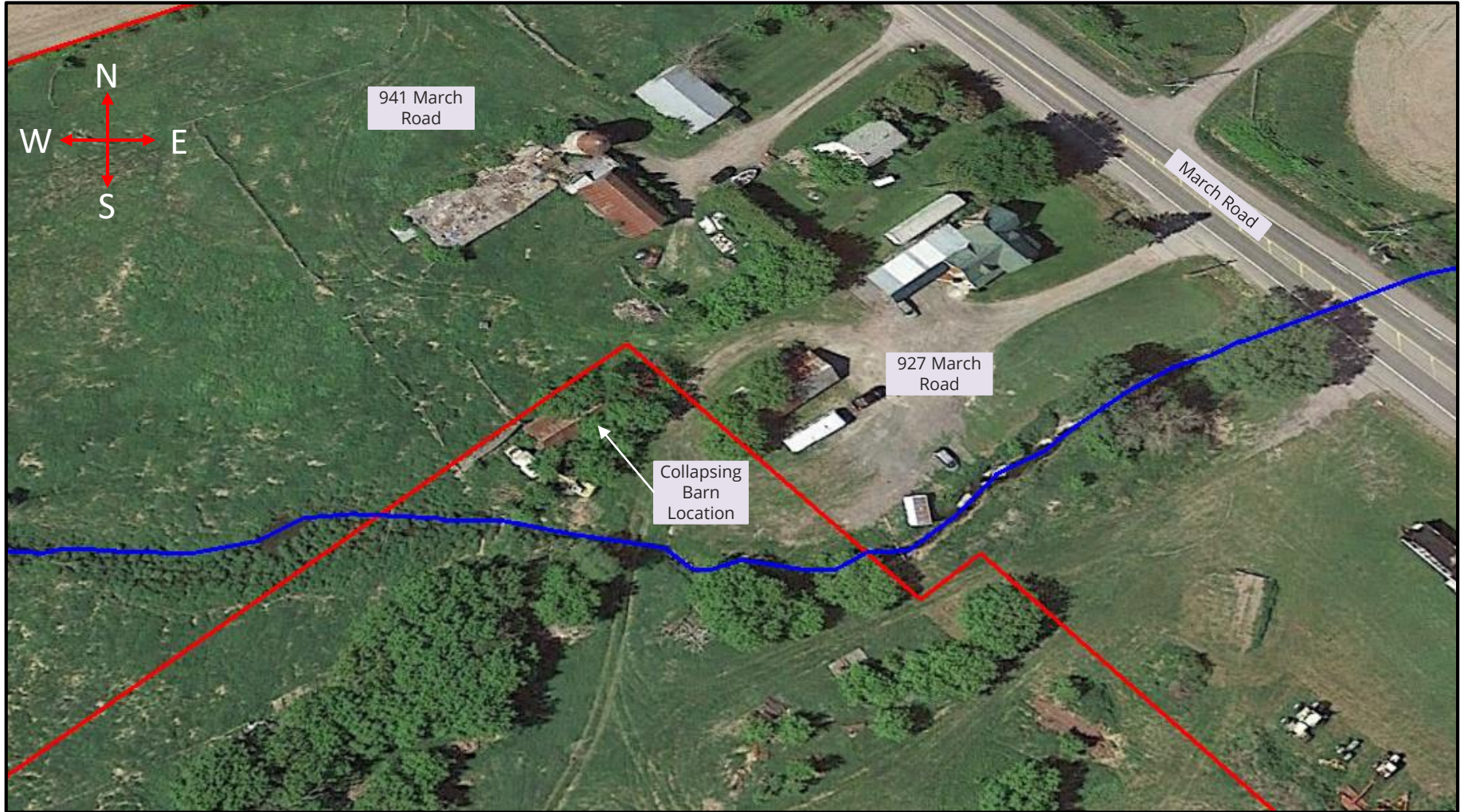


Please Note:
This is not a
legal land
survey. All
dimensions
and locations
are shown as
approximate.

— - Site Boundary
 — - Tributaries of Shirley's Brook
  #1 - Bird Survey Points

FIGURE 6: COLLAPSING BARN LOCATION

Brigil Kanata North Development
Endangered Species Act Submission



— - Site Boundary — - Tributaries of Shirley's Brook

Please Note: This is not a legal land survey. All dimensions and locations are shown as approximate.

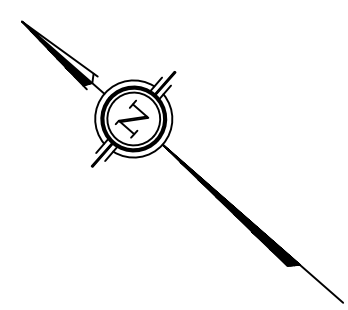
FIGURE 7: WPWI SURVEY POINTS

Brigil Kanata North Development
Endangered Species Act Submission



 - Site Boundary  - Tributaries of Shirley's Brook  - Whip Poor Will Survey Points

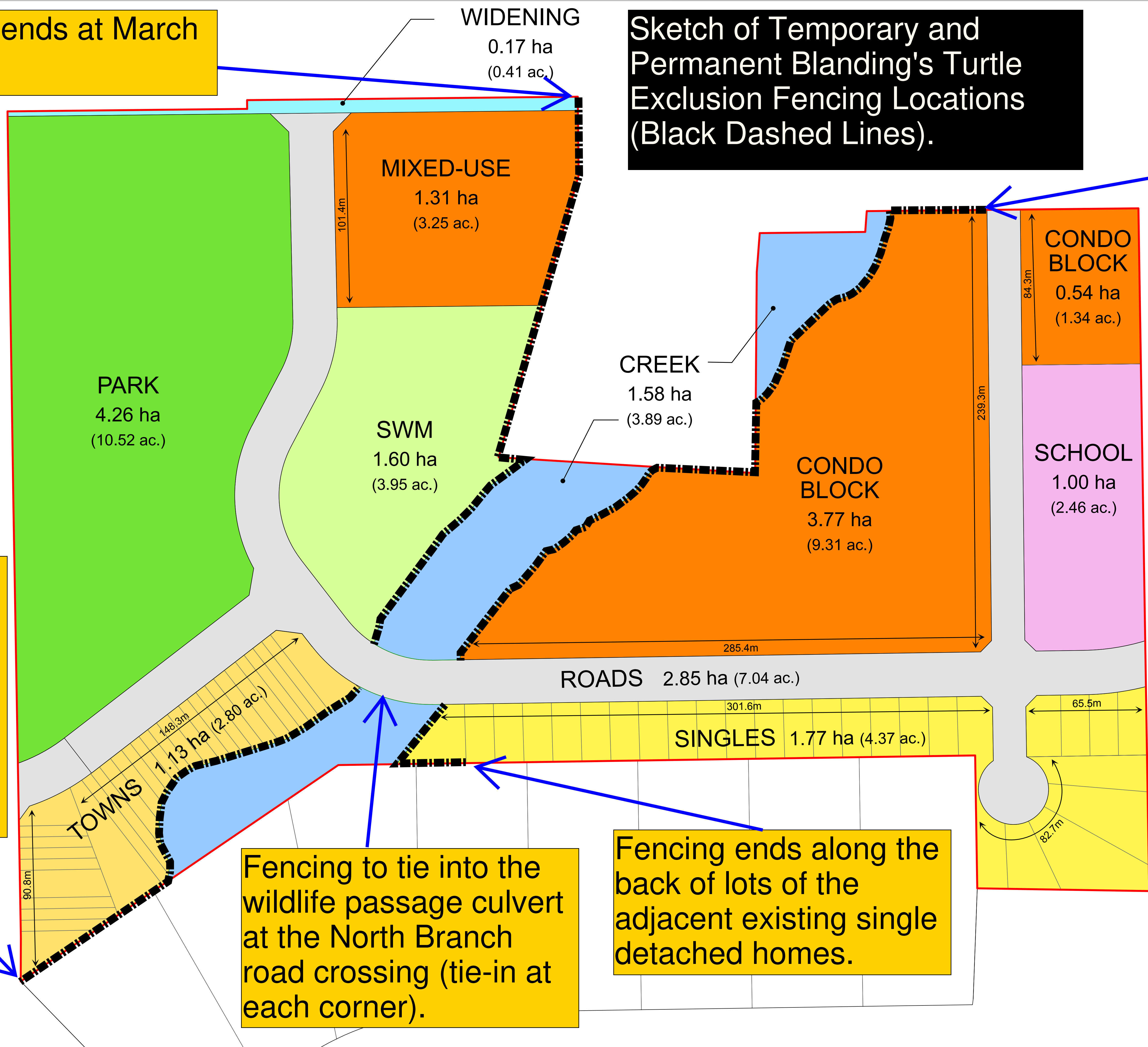
Please Note:
This is not a
legal land
survey. All
dimensions
and locations
are shown as
approximate.



Fencing ends at March Road.

Sketch of Temporary and Permanent Blanding's Turtle Exclusion Fencing Locations (Black Dashed Lines).

Fencing ends along the back of the adjacent existing developed properties.



Fencing to tie into the adjacent 40 m wide corridor fencing in the KNUEA Northwest Quadrant.

Fencing to tie into the wildlife passage culvert at the North Branch road crossing (tie-in at each corner).

Fencing ends along the back of lots of the adjacent existing single detached homes.

Note that the fencing will be placed at the edge between the watercourse corridor and the 6 m wide recreational pathway, thereby separating the 6 m wide pathway from the watercourse corridor.

APPENDIX B

Combined Information Gathering Form & Alternatives Assessment Form References



McKINLEY ENVIRONMENTAL SOLUTIONS

613-620-2255

mckinleyenvironmental@gmail.com

www.mckinleyenvironmental.com

City of Ottawa (2014) Natural Heritage System Overlay (West). Official Plan Schedule L3.

City of Ottawa (2015) Protocol for Wildlife Protection During Construction.

City of Ottawa (2020) Geo-Ottawa Municipal Mapping Site. Retrieved April 8th, 2020 at
<<http://maps.ottawa.ca/geottawa/>>

DST Consulting Engineers (DST) (2015) Kanata North Community Design Plan – Blanding's Turtle Habitat Compensation Plan.

Garlapow, R.M. (2007) Whip-poor-will Prey Availability and Foraging Habitat: Implications for Management in Pitch Pine / Scrub Oak Barrens Habitats. Master Dissertation, Univ. of Massachusetts, Amherst, Massachusetts.

Gunson, K., Seburn, D., Kintsch, J, & J. Crowley (2016) Best Management Practices for Mitigating the Effects of Roads on Amphibian and Reptile Species at Risk in Ontario.

Konze, K. and McLaren, M. (1998) Wildlife Monitoring Programs and Inventory Techniques for Ontario. NEST Technical Manual TM-009.

Lee, Harold (2008) Southern Ecological Land Classification Ecosystem Catalogue (2008 version).

McKinley Environmental Solutions (2020) Brigil Kanata North Development – Combined Environmental Impact Statement and Tree Conservation Report.

Muncaster Environmental Planning (MEP) (2016) Existing Conditions Natural Environment Features – Kanata North Urban Expansion Area.

Novatech Engineering Consultants (Novatech) (2016a) Kanata North Community Design Plan.

Novatech Engineering Consultants (Novatech) (2016b) Kanata North Community Design Plan – Environmental Management Plan.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (1998) Ecological Land Classification for Southern Ontario: First Approximation and its Applications.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2010) OMNRF Natural Heritage Reference Manual for Natural Heritage Policies of the Provincial Policy Statement, 2005, Second Edition.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2011a) Survey Methodology under the Endangered Species Act: *Dolichonyx oryzivorus* (Bobolink).

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2011b) Bats and Bat Habitats: Guidelines for Wind Power Projects.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2014a) General Habitat Description for Blanding's Turtle.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2014b) Significant Wildlife Habitat Mitigation Support Tool.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2014c) General Habitat Description for the Eastern Whip Poor Will.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2014d) Draft Survey Protocol for Eastern Whip Poor Will.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2014e) General Habitat Description for Bobolink.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2014f) General Habitat Description for Eastern Meadowlark.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2020) Natural Heritage Information Center. Retrieved April 8th, 2020 at <<http://nhic.mnr.gov.on.ca/>>

Paterson Group (2013) Consolidated Preliminary Geotechnical Investigation – Kanata North Urban Expansion Area Community Development Plan.

Species at Risk Ontario (SARO) (2020) Species at Risk Ontario. Retrieved April 8th, 2020 at <<http://www.ontario.ca/environment-and-energy/species-risk-ontario-list>>