

August 23, 2013

Niagara Region Wind Corporation
277 Lakeshore Road East, Suite 211
Oakville, Ontario L6J 6J3

RE: Modifications to Niagara Region Wind Farm (Addendum 2)

Dear Darren Croghan,

The Ministry of Natural Resources (MNR) has received the addendum report dated June 20, 2013 that describes modifications to the Niagara Region Wind Farm Project made subsequent to MNR's letter confirming the Natural Heritage Assessment in respect of the project.

The addendum report proposes relocation (<10m shift from original proposed location) of turbines 18, 32 and 35. Upon review of the addendum report, MNR is satisfied that the Natural Heritage Assessment requirements of Ontario Regulation 359/09 have been met.

Please add this letter as an addendum to the confirmation letter issued April 3, 2013 and the re-confirmation letter issued April 22, 2013 for the Niagara Region Wind Farm Project.

If you wish to discuss, please contact Amy Cameron at Amy.Cameron@Ontario.ca or 613-732-5506.

Sincerely,



Kathy Woeller
Regional Land Use Planning Supervisor
Regional Resources Section, Southern Region

cc Amy Cameron, Renewable Energy Planning Ecologist, MNR
Ian Hagman, Guelph District Manager, MNR

Narren Santos, Environmental Approvals Access & Service Integration Branch, MOE
Zeljko Romic, Environmental Approvals Access & Service Integration Branch, MOE
Chris Powell, Stantec Consulting Ltd.
Shari Muscat, Stantec Consulting Ltd.



Stantec Consulting Ltd.
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Stantec

June 20, 2013
File: 1609-50269

Attention: Andrea Fleischauer, Renewable Energy Planning Ecologist

Ministry of Natural Resources
300 Water Street, 4th Floor, South Tower
Peterborough, Ontario, K9J 8M5

Dear Ms. Fleischauer,

Reference: Niagara Region Wind Farm NHA/EIS Addendum for Relocating Turbines T18, T32 and T35

The purpose of this memo is to provide the Ministry of Natural Resources (MNR) with an addendum to the *Natural Heritage Assessment and Environmental Impact Study for the Niagara Region Wind Farm* (Stantec, 2013) to address minor adjustments made to the location of Turbines T18, T32 and T35 during the final preparation of the REA application and supporting documents submitted to the MOE on April 22, 2013. In addition, 3 turbines (T36, T46 and T53) have been changed from Enercon E101 wind turbine generators to E82 turbine generators.

Since the proposed adjustments are minor, the majority of information contained in the NHA/EIS as confirmed by the MNR through their letter dated April 2, 2013 remains applicable to this Project. The following information is provided to update to the records review, site investigation, evaluation of significance and environmental impact study sections of the NHA/EIS for the expanded zone of investigation where the relocation of these turbines would trigger the need for additional information.

Section 1 – Description of Project Changes

The relocation of these 3 turbines was identified during the final preparation of the Acoustic Assessment Report (Stantec, 2013) during the incorporation of the results of the independent noise study received from the turbine manufacturer (Enercon). Minor adjustments (i.e. less than 10m) to the location of these turbines were incorporated into the final layout to ensure compliance with the 40.0 dBA noise threshold required at all non-participating noise receptors. The location of these turbines and corresponding expanded zone of investigation are identified on revised **Figure 1.1** (attached) and are summarized in the following table, along with the distance that each turbine was shifted. No changes to the construction areas or other project components except where access roads connect to the turbine location, is proposed.

Turbine identifier	Location Coordinates (UTM 17 NAD 83)		Distance Shifted [m]
	X – Easting [m]	Y-Northing [m]	
T18	630123	4766229	9.71m southwest
T32	624780	4764410	9.77m south
T35	627164	4764483	9.76m north

*Note: All other turbines and project components are in the same location as originally confirmed by the MNR.

Reference: Niagara Region Wind Farm NHA/EIS Addendum for Relocating Turbines T18, T32 and T35

In addition, the change in turbines T36, T46 and T53 from Enercon E101 wind turbine generators to E82 turbine generators results in a shorter turbine blade length and therefore a smaller zone of investigation. No further assessment of the turbine changes is required as the impacts of the project components within the zone of investigation have already been assessed in the NHA/EIS and previously confirmed by the MNR.

Section 2 – Policies

Ontario Regulation 359/09 (as amended by O. Reg. 195/12) issued under the *Environmental Protection Act* outlines the application, approval, consultation and reporting requirements necessary to obtain approval of a renewable energy project, such as a wind, solar, thermal treatment or anaerobic digestion facility. This Natural Heritage Assessment (NHA) and Environmental Impact Study (EIS) Addendum report is intended to satisfy sections 24 through 28, 37 and 38 of O. Reg. 359/09. The policy framework for this NHA/EIS addendum has not changed from the NHA/EIS.

Section 3 – Records Review

The records review included in the NHA/EIS, which was completed in accordance with Section 25 of O. Reg. 359/09, included the entire Study Area (see Revised **Figure 1.1**), which encompasses the minor adjustments to the location of these 3 turbines. No additional records or natural features were identified within the expanded zones of investigation as a result of the minor adjustment to these 3 turbine locations.

The following is a summary of natural heritage features known to exist within the expanded zone of investigation associated with these turbines, as illustrated on Revised **Figures 2.17, 2.29 and 2.32**

Turbine 18

The NHA identified the Hwy 20 & 24 Wetland Complex, an MNR identified woodland and a deer wintering yard within the original zone of investigation. The expanded zone of investigation consists of an agricultural field. No additional natural heritage features were identified as part of the Records Review within the revised zone of investigation. (Revised **Figure 2.17**)

Turbine 32

The NHA identified the Beaver Creek Wetland Complex, an unevaluated wetland identified by the NPCA and an MNR identified woodland within the original zone of investigation. The expanded zone of investigation consists of an agricultural field. No additional natural heritage features were identified as part of the Records Review within the revised zone of investigation (Revised **Figure 2.29**).

Turbine 35

The NHA identified portions of an unevaluated wetland identified by the NPCA within the original zone of investigation. The expanded zone of investigation consists of an agricultural field. No additional natural heritage features were identified as part of the Records Review within the revised zone of investigation (revised **Figures 2.32**).

Reference: Niagara Region Wind Farm NHA/EIS Addendum for Relocating Turbines T18, T32 and T35

The known natural heritage features described above will be carried forward to site investigation. No other known natural heritage features exist within the expanded zone of investigation, which will be verified through site investigations.

Section 4 – Site Investigation

Site investigations within the expended zone of investigation were conducted in accordance with Section 26(1) of O. Reg. 359/09. These investigations were completed as part of the original site investigation work described in the NHA/EIS where property access was available. A larger area than what is summarized in the NHA/EIS was included in the site investigation work to provide flexibility during the iterative development of the turbine layout. The results of the site investigations for the expanded zone of investigation are illustrated on the revised figures (described below) as evidenced by the corresponding field notes (see attached).

Turbine 18

Portions of the Highway 20 and 24 Provincially Significant Wetland Complex (we220) and associated woodland (wo97) were confirmed during site investigations to be present within the zone of investigation. Candidate significant wildlife habitat features within the zone of investigation include amphibian habitat (ah29), a deer congregation area (dc58), winter raptor habitat (wr6), woodland vole habitat, woodland raptor nesting habitat and woodland area sensitive bird breeding habitat. No additional candidate significant wildlife habitat features were identified as occurring within the expanded zone of investigation (Revised **Figure 6.17**).

Turbine 32

Portions of the Beaver Creek Provincially Significant Wetland Complex (we282), an unevaluated wetland (we292) and woodland (wo112 and wo120) were confirmed during site investigations to be present within the zone of investigation. Candidate significant wildlife habitat features within the zone of investigation include amphibian habitat (ah37, ah40, ah88), turtle nesting habitat (th42) and terrestrial crayfish habitat. No additional candidate significant wildlife habitat features were identified as occurring within the expanded zone of investigation (Revised **Figure 6.29**).

Turbine 35

No natural heritage features were identified during site investigations as occurring within the zone of investigation. No significant features or candidate significant wildlife habitat features were identified as occurring within the expanded zone of investigation (Revised **Figure 6.32**).

Summary

The natural features identified within the revised zone of investigation that are carried forward to the evaluation of significance are the same features that were assessed in the NHA/EIS (we220, we282, we292, wo97, wo112, wo120, wr6, th42, ah29, ah37, ah40 and ah88). No additional features or candidate significant wildlife habitat features were identified as occurring within the expanded zone of investigation.

Reference: Niagara Region Wind Farm NHA/EIS Addendum for Relocating Turbines T18, T32 and T35

Section 5 – Evaluation of Significance

Evaluation of significance surveys for candidate significant wildlife habitat features within the expended zone of investigation were conducted as part of the original work described in the NHA/EIS and were undertaken where property access was available. A larger area than what is summarized in the NHA/EIS was included in the site investigation work to provide flexibility during the iterative development of the turbine layout. No additional evaluation of significance surveys were required to support the shift in turbine locations as no additional candidate features were identified as occurring within the expanded zone of investigations.

Turbine 18

Significant features identified within the revised zone of investigation include significant wetland (we220) and significant woodland (wo97). Significant wildlife habitat features within the zone of investigation include amphibian habitat (ah29). Generalized Significant wildlife habitat includes a deer congregation area (dc58), woodland vole habitat, woodland raptor nesting habitat and woodland area sensitive bird breeding habitat (in wo97) (Revised **Figure 7.17**). These features were identified and assessed as significant in the NHA/EIS. No new significant natural heritage features were identified.

Turbine 32

Significant features identified within the revised zone of investigation include significant wetlands (we282 and we292) and significant woodland (wo112). Significant wildlife habitat features within the zone of investigation include amphibian habitat (ah37) and turtle nesting habitat (th42). Generalized significant wildlife habitat includes terrestrial crayfish habitat (Revised **Figure 7.29**). These features were identified and assessed as significant in the NHA/EIS. No new significant natural heritage features were identified.

Turbine 35

No significant features were identified as occurring within the expanded zone of investigation (revised **Figure 7.32**).

Summary

The significant natural features identified within the revised zone of investigation carried forward to the EIS are the same features that were assessed in the NHA/EIS (we220, we282, we292, wo97, wo112, th42, ah29 and ah37). No additional significant features or significant wildlife habitat features were identified as occurring within the expanded zone of investigation.

Section 6 – Environmental Impact Study

An assessment of the impacts associated with the installation of all project components within the original zone of investigation was undertaken as part of the original NHA/EIS. Parts of the Project are located within 120 m of significant wetlands, woodlands, and wildlife habitat and as such, an EIS was required to assess the

Reference: Niagara Region Wind Farm NHA/EIS Addendum for Relocating Turbines T18, T32 and T35

potential negative environmental effects and identify mitigation measures designed to prevent or minimize potential negative effects.

The potential impacts associated with the proposed changes in turbine locations are identified and assessed in this EIS addendum, with appropriate mitigation, restoration and enhancement measures recommended to protect, and where feasible enhance, the natural heritage features and ecological functions. General impacts and standard mitigation measures to be implemented for this Project are provided in the NHA/EIS along with potential impacts and mitigation measures for Generalized Significant Wildlife habitat.

Results

Significant natural features found in or within 120 m of the revised turbine locations are shown on **Figures 7.17, 7.29 and 7.32**. Based on the evaluation of significance, the following natural features have been identified as significant natural features in or within 120 m of revised locations of Turbines 18 and 32 for which an EIS addendum is required:

- Wetlands – we220, we282 and we292
- Woodlands – wo97 and wo112
- Turtle nesting habitat – th42
- Amphibian woodland breeding habitat - ah29 and ah37

Wetlands

Revised turbines locations within 120 m of a significant wetland are detailed below.

Feature Number	Feature Size (ha)	Project Component(s) located within 120 m	Distance to feature (m) - original	Distance to feature (m) - revised
we220	47.07	• T18	• 40.9 to turbine base (4.9 to blade tip)	• 53.4 to turbine base (17.4 to blade tip)
we282	6.25	• T32	• 61.1 to turbine base (25.1 to blade tip)	• 73.6 to turbine base (37.6 to blade tip)
we292	0.64	• T32	• 73.1 to turbine base (37.1 to blade tip)	• 85.6 to turbine base (49.6 to blade tip)

No components of the Project are located within the significant wetland boundaries as identified and confirmed through site investigations. As the Project Location is sited outside all significant wetland boundaries, there will be no direct loss of significant wetland habitat or function as a result of the Project. Distances to the wetland boundaries from T18 and T32 have increased as a result of the shifts in turbine locations so that turbines are located further away from wetland boundaries. Indirect impacts resulting from

Reference: Niagara Region Wind Farm NHA/EIS Addendum for Relocating Turbines T18, T32 and T35

construction and decommissioning activities, such as dust generation, sedimentation, accidental intrusion and vegetation removal, and erosion are expected to be short term, temporary in duration and mitigated for through the use of standard site control measures.

The proposed mitigation measures as described and recommended in Section 6.4 of the NHA/EIS apply to the construction of the turbines in the proposed revised locations. Based on the potential effects on significant wetlands from wind turbines and the effectiveness of proposed mitigation measures, there would be minimal effects from the turbines on these wetlands.

Woodlands

Revised turbine locations within 120 m of a significant woodland are detailed below.

Feature Number	Feature Size (ha)	Project Component(s) located within 120 m	Distance to feature (m) - original	Distance to feature (m) - revised
wo97	53.36	<ul style="list-style-type: none"> T18 	<ul style="list-style-type: none"> (40.9m to turbine base, 4.9m to blade tip) 	<ul style="list-style-type: none"> 53.4 to turbine base (17.4 to blade tip)
wo112	17.45	<ul style="list-style-type: none"> T32 	<ul style="list-style-type: none"> (61.1m to turbine base, 25.1m to blade tip) 	<ul style="list-style-type: none"> 73.6 to turbine base (37.6 to blade tip)

No components of the Project are located within the significant woodland boundaries as identified and confirmed through site investigations. As the Project Location is sited outside all significant woodland boundaries, there will be no direct loss of significant woodland habitat or function as a result of the Project. Distances to the woodland boundaries from T18 and T32 have increased as a result of the shifts in turbine locations so that turbines are located further away from woodland boundaries. Indirect impacts resulting from construction and decommissioning activities, such as dust generation, sedimentation, accidental intrusion and vegetation removal, and erosion are expected to be short term, temporary in duration and mitigated for through the use of standard site control measures.

The proposed mitigation measures as described and recommended in Section 6.5 of the NHA/EIS apply to the construction of the turbines in the proposed revised locations. Based on the potential effects on significant woodlands from wind turbines and the effectiveness of proposed mitigation measures, there would be minimal effects from the turbines on these woodlands.

Turtle Nesting Habitat

As per the requirements of Appendix D of *the Natural Heritage Assessment Guide for Renewable Energy Projects* (MNR, 2011a), impacts to turtle nesting habitat need to be assessed only for access roads within 120 m of features. The full suite of wildlife habitats that require generalized consideration have been reviewed as part of the NHA/EIS, and have compiled a comprehensive list of general construction mitigation measures that will be implemented during the construction and decommissioning phases (**Table 6.2 of the NHA/EIS**) of the Project.

June 20, 2013
Andrea Fleischauer, Renewable Energy Planning Ecologist

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Reference: Niagara Region Wind Farm NHA/EIS Addendum for Relocating Turbines T18, T32 and T35

Amphibian Woodland Habitat

As per the requirements of Appendix D of the *Natural Heritage Assessment Guide for Renewable Energy Projects* (MNR, 2011a), impacts to amphibian woodland habitat need to be assessed only for access roads within 120 m of features. The full suite of wildlife habitats, that require generalized consideration have been reviewed as part of the NHA/EIS, and have compiled a comprehensive list of general construction mitigation measures that will be implemented during the construction and decommissioning phases (**Table 6.2 of the NHA/EIS**) of the Project.

Monitoring

The pre and post construction disturbance and mortality monitoring as proposed in Section 6.11 of the NHA/EIS and the Environmental Effects Monitoring Plan (EEMP) applies to this EIS Addendum. No changes to the monitoring program are required to address the revised turbine locations.

Closure

Stantec Consulting Ltd. prepared this Natural Heritage Assessment and Environmental Impact Study Addendum to support revised turbine locations for the Niagara Region Wind Farm Project. NRWC is committed to implementing the appropriate protection and mitigation measures as they apply to the construction and operation of the proposed Project.

We trust that the information contained in this NHA/EIS addendum is sufficient to address requirements in accordance with O.Reg 359/09. As such, we request that the MNR confirm these project changes through the provision of a confirmation letter for the relocation of Turbines T18, T32 and T35 (and associated relocation of access roads).

If you have any questions or require further clarification of the above, please do not hesitate to give me a call.

Sincerely,

STANTEC CONSULTING LTD.

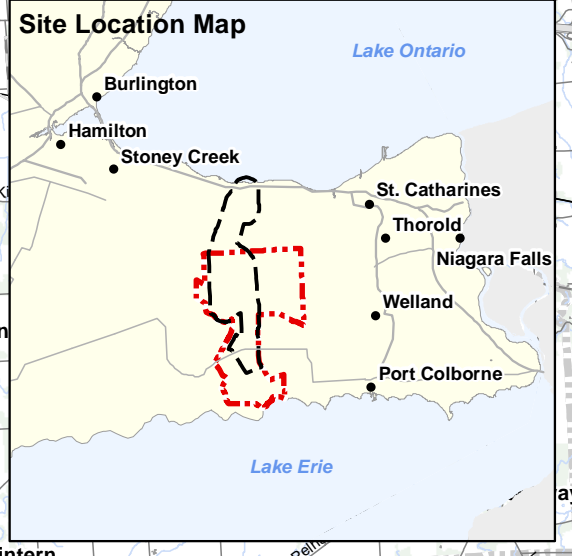
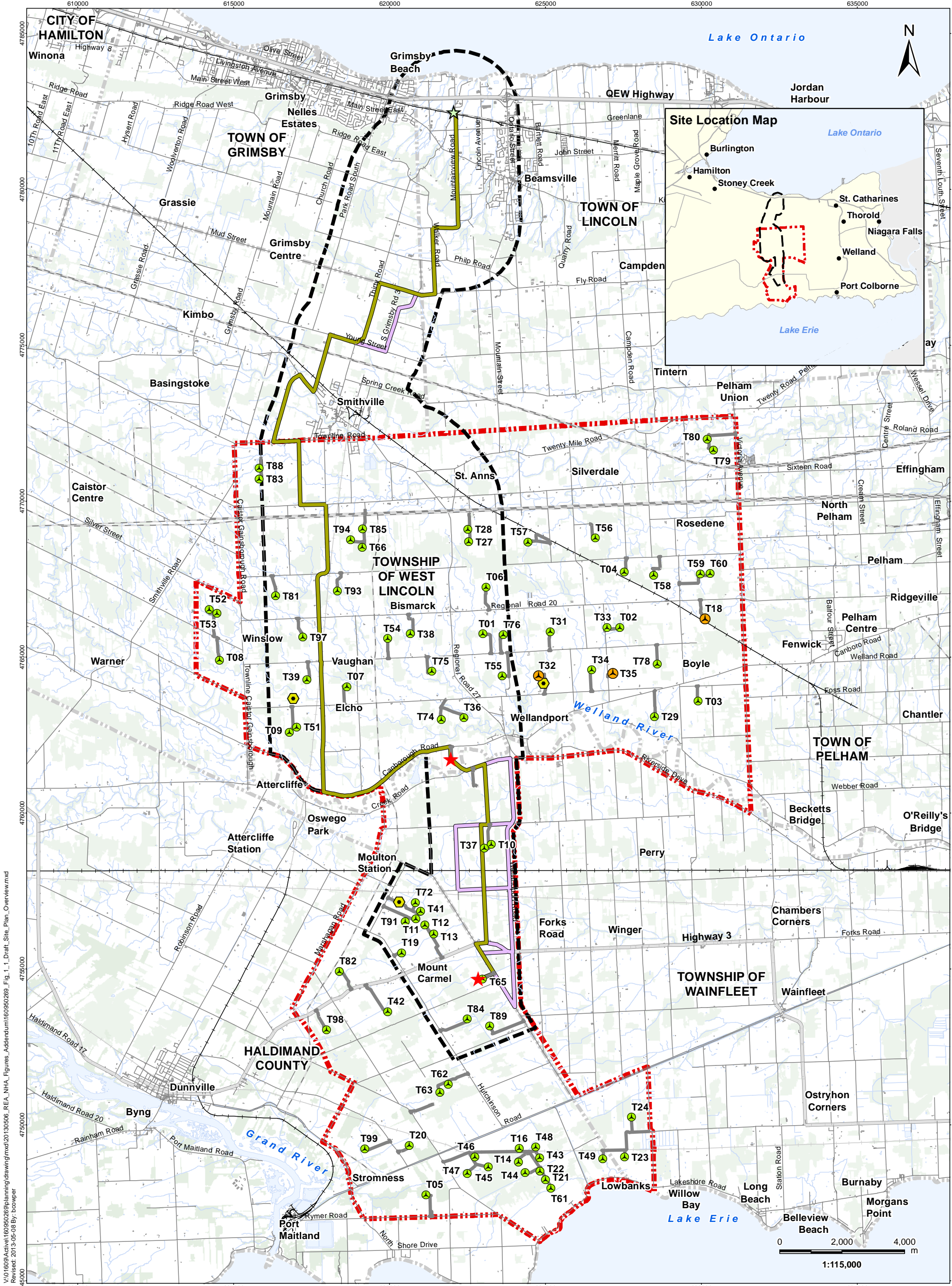


Shari Muscat
Project Manager / Environmental Planner



Chris Powell, M.A.
Project Manager / Environmental Planner

c. Amy Cameron, MNR
Darren Croghan, NRWC



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 Revised: 2013-05-08 By: bczwper



Legend	
	Project Study Area
	Interconnector Study Area
	Proposed Turbine Location
	Turbine Relocated
	Potential Access Road
	Transformer Substation
	Tap-in Location
	Existing Met Tower
	Preferred Transmission Line Route
	Alternate Transmission Route
	Road
	Expressway / Highway
	Active Railway
	Abandoned Railway
	Existing Structures
	Existing Transmission Line
	Watercourse
	Waterbody
	Wooded Area
	Municipality Lower Tier

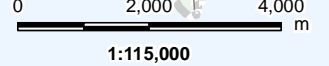
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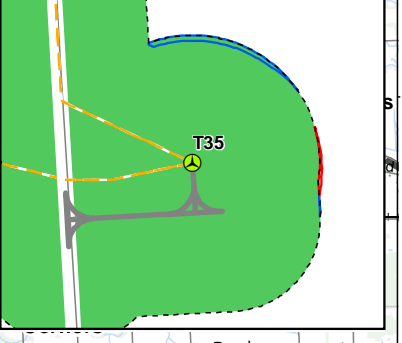
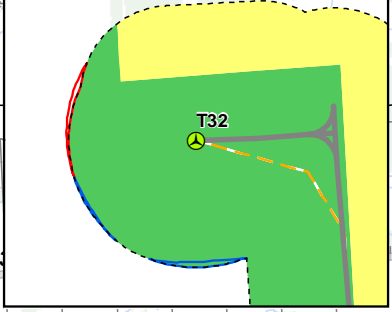
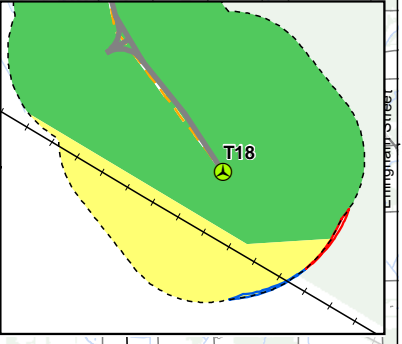
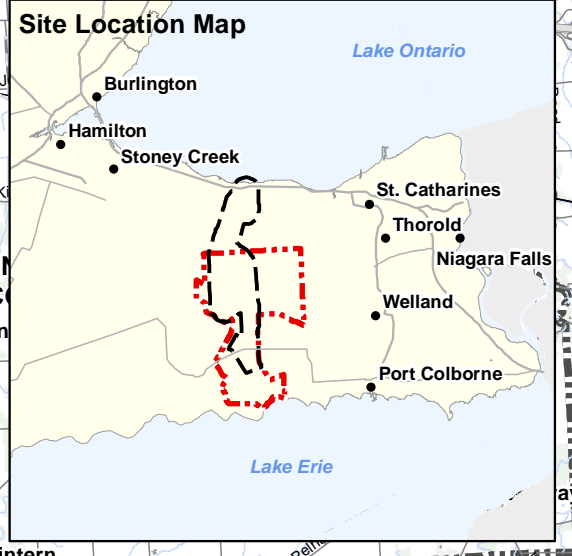
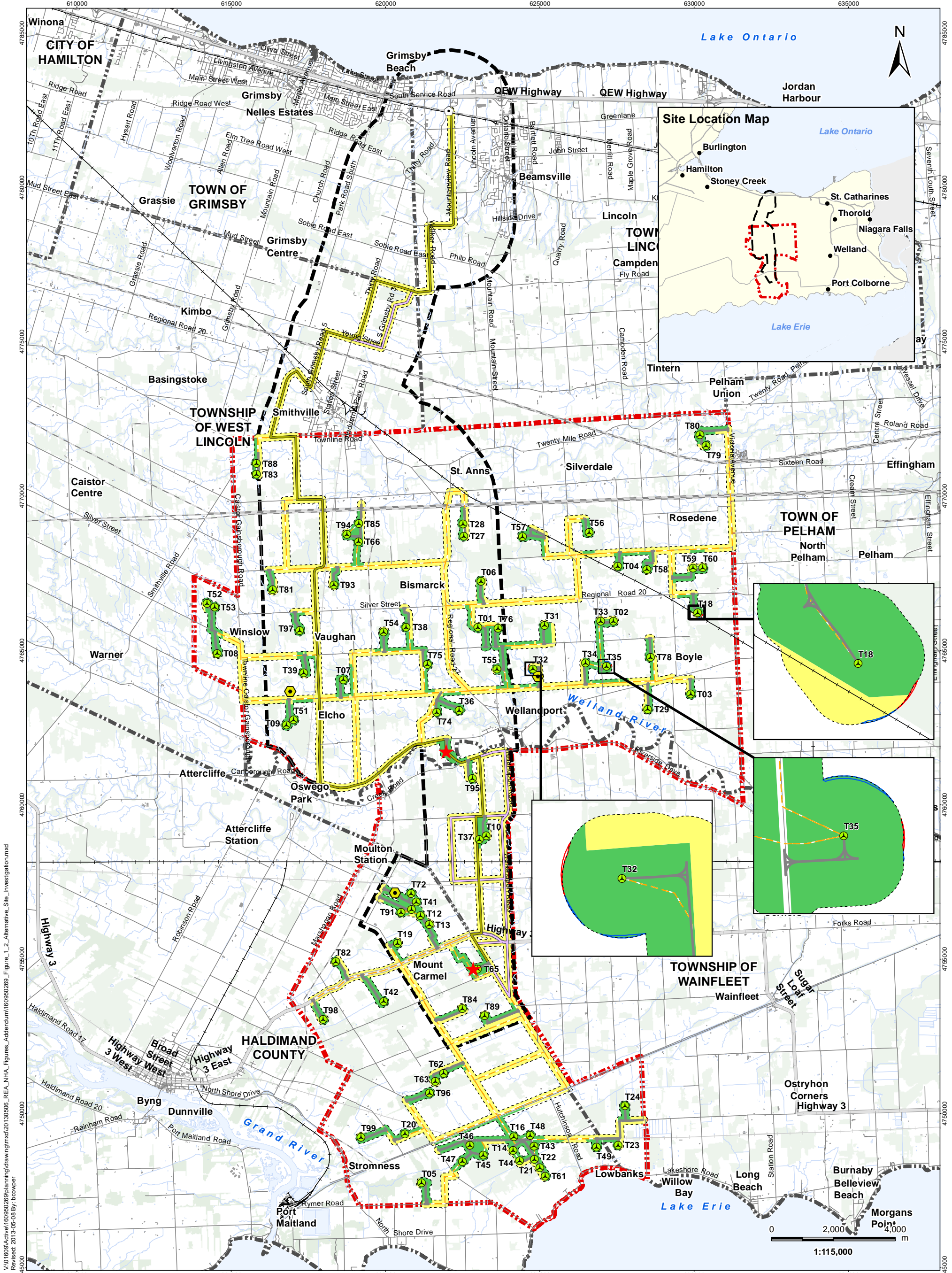
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 Niagara Region Wind Farm

Figure No.
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Title
Draft Site Plan Overview Revised



May 2013
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 Revised: 2013-05-08 By: bczpwr



Legend	
	Project Study Area
	Interconnector Study Area
	120m Zone of Investigation
	Proposed Turbine Location
	Potential Access Road
	Collector Lines - Underground or Overhead
	Transformer Substation
	Tap-in Location
	Temporary Met Tower
	Preferred Transmission Line Route
	Alternate Transmission Route
	Road
	Expressway / Highway
	Active Railway
	Abandoned Railway
	Existing Structures
	Existing Transmission Line
	Watercourse
	Waterbody
	Wooded Area
	Municipality Lower Tier
	Physical Visit
	Roadside
	Zone of Investigation Adjustments
	Area Added
	Area Removed

Notes

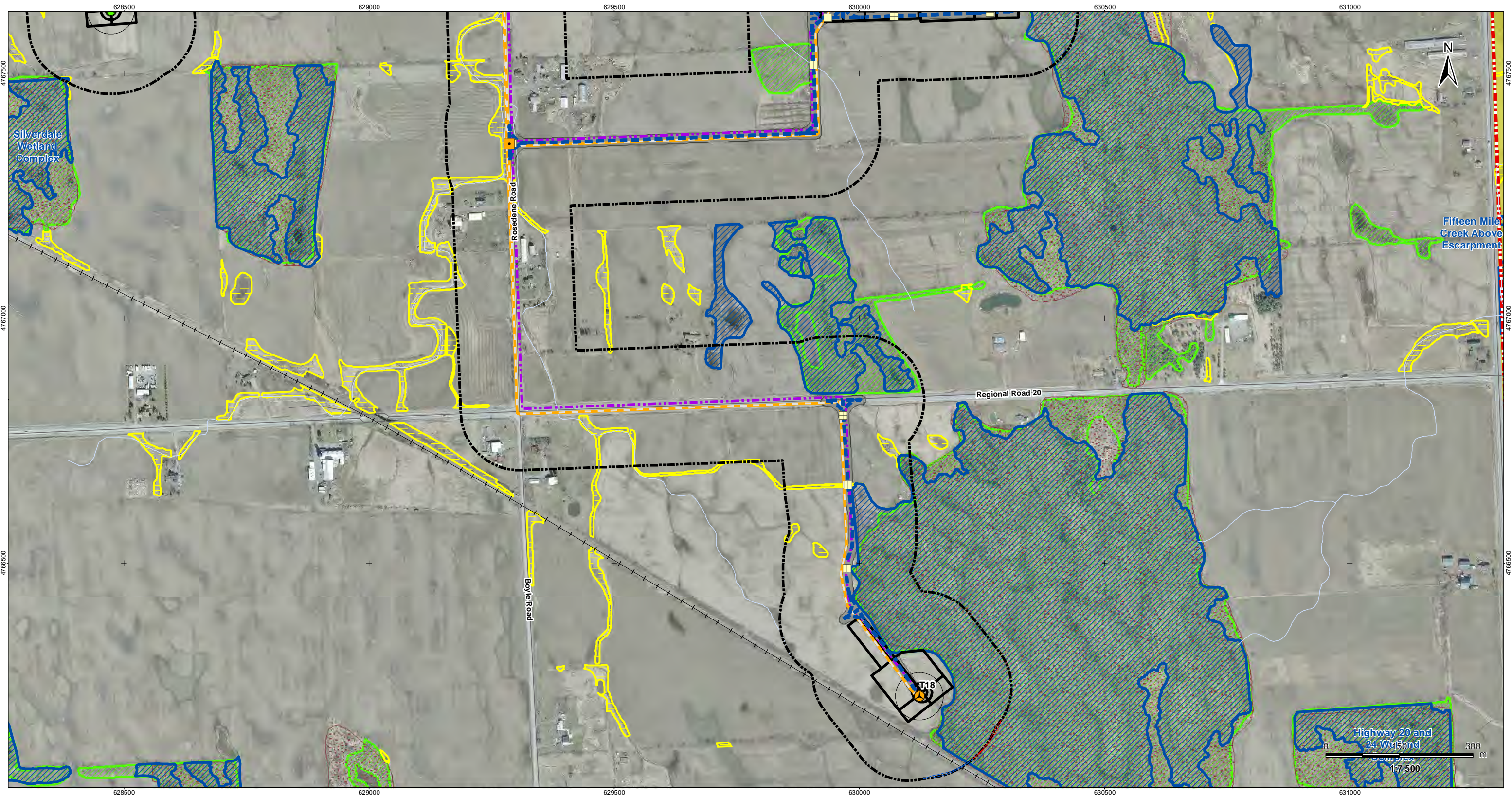
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Figure No.
 1.2

Title
Alternative Site Investigations Revised

May 2013
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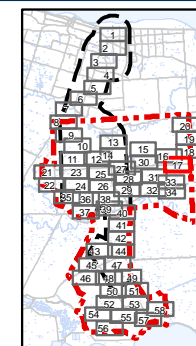
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Legend

- | | | | |
|--|---|---|---|
| Project Study Area | Tap-in Location | Access Road 20m Construction Area | ANSI, Earth Science, Provincially Significant (MNR) |
| Interconnector Study Area | Junction Box | Potential Construction Laydown Area | ANSI, Life Science, Provincially Significant (MNR) |
| 120m Zone of Investigation | Proposed Culvert | Transformer Substation | ANSI, Life Science, Regionally Significant (MNR) |
| Zone of Investigation Adjustments | Preferred Transmission Route | Unevaluated Wetland (NPCA) | Greenbelt Natural Heritage System |
| Area Added | Alternate Transmission Route | Woodland (MNR) | Niagara Escarpment |
| Area Removed | Temporary Laydown Area | Provincially Significant Wetland (MNR) | |
| Proposed Turbine Location | Collector Lines - Underground or Overhead | Other/Locally Significant Wetland (MNR) | |
| Turbine Relocated | Fibre Optic Line | Deer Wintering Yard (MNR) | |
| Turbine Blade Length | Potential Access Road | | |

Notes

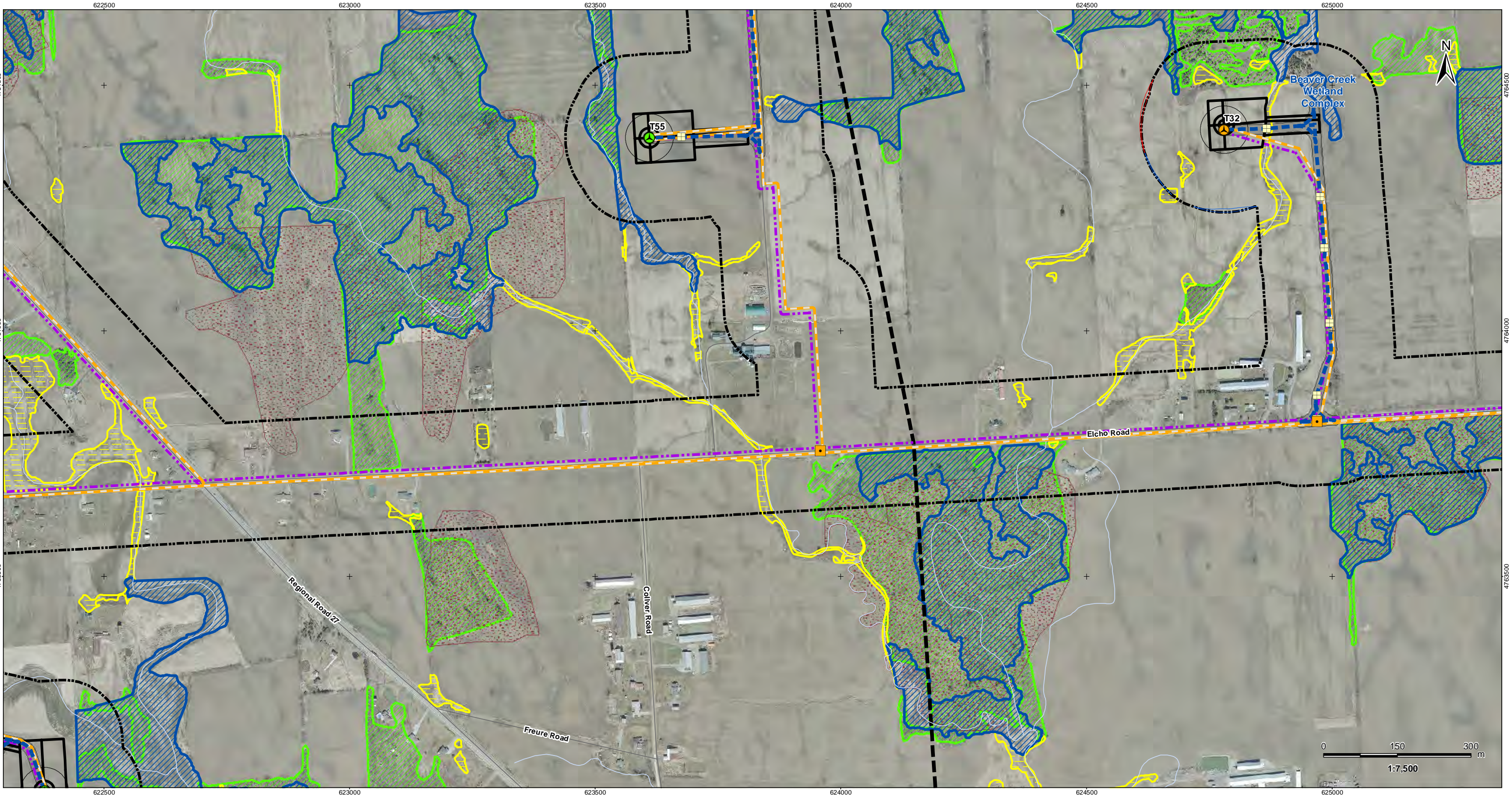
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Natural Heritage Assessment Report

Figure No.
2.17

Title
**Records Review -
Natural Features
Figure 2.17
Revised**



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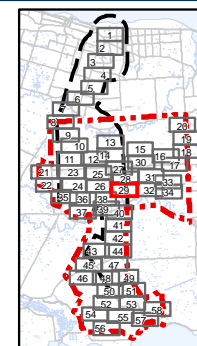
- Project Study Area
- Interconnector Study Area
- 120m Zone of Investigation
- Zone of Investigation Adjustments**
- Area Added
- Area Removed
- Proposed Turbine Location
- Turbine Relocated
- Turbine Blade Length
- Tap-in Location
- Junction Box
- Proposed Culvert
- Preferred Transmission Route
- Alternate Transmission Route
- Temporary Laydown Area
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Potential Access Road

- Access Road 20m Construction Area
- Potential Construction Laydown Area
- Transformer Substation
- Unevaluated Wetland (NPCA)
- Woodland (MNR)
- Provincially Significant Wetland (MNR)
- Other/Locally Significant Wetland (MNR)
- Deer Wintering Yard (MNR)

- ANSI, Earth Science, Provincially Significant (MNR)
- ANSI, Life Science, Provincially Significant (MNR)
- ANSI, Life Science, Regionally Significant (MNR)
- Greenbelt Natural Heritage System
- Niagara Escarpment

Notes

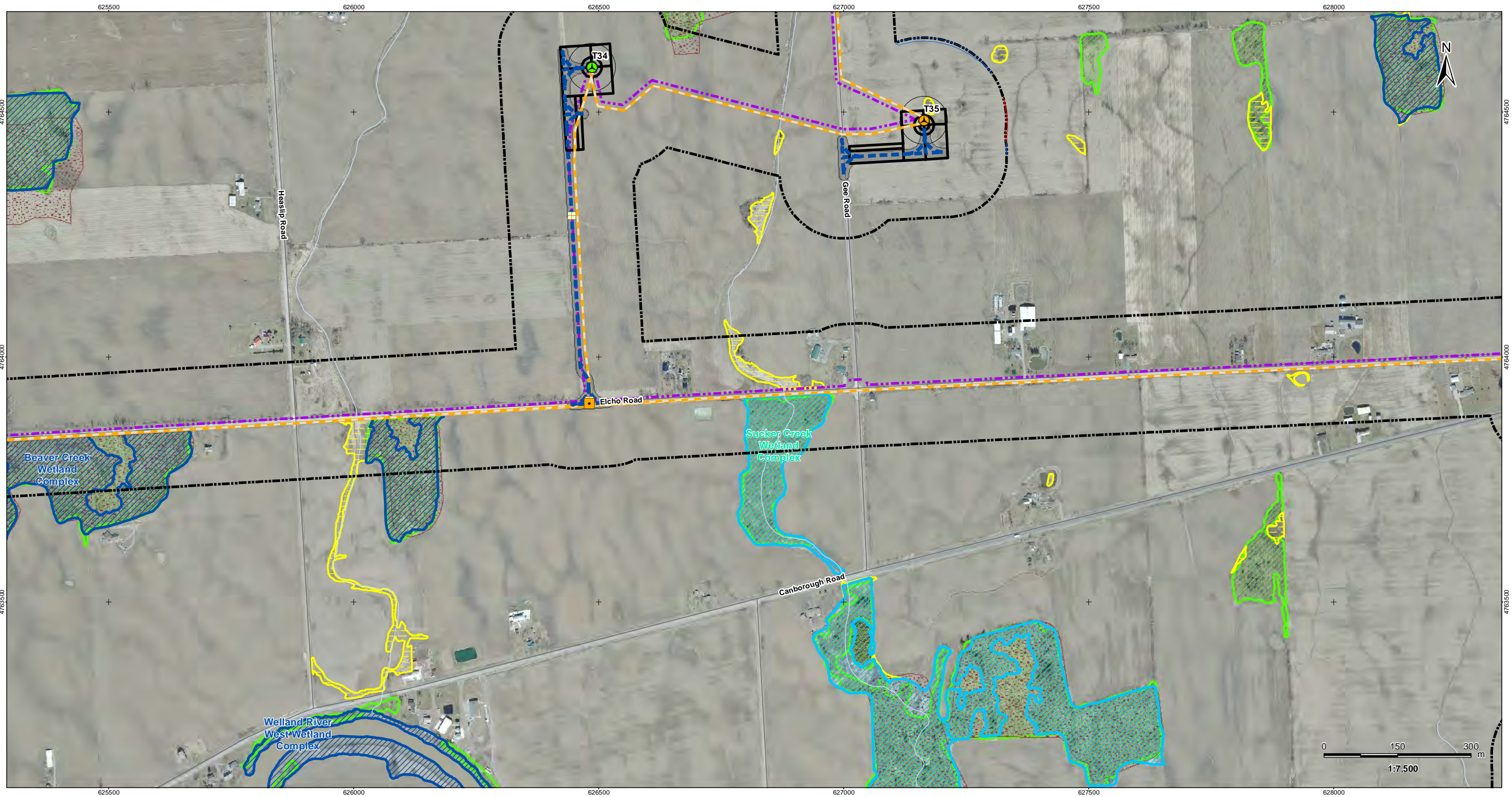
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Figure No.
 2.29

Title
**Records Review -
 Natural Features
 Figure 2.29
 Revised**



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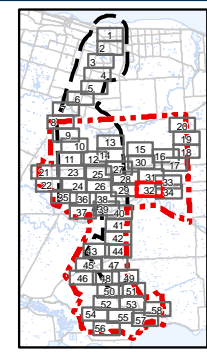


Legend

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|--|---|---|---|
| Project Study Area | Tap-in Location | Access Road 20m Construction Area | ANSI, Earth Science, Provincially Significant (MNR) |
| Interconnector Study Area | Junction Box | Potential Construction Laydown Area | ANSI, Life Science, Provincially Significant (MNR) |
| 120m Zone of Investigation | Proposed Culvert | Transformer Substation | ANSI, Life Science, Regionally Significant (MNR) |
| Zone of Investigation Adjustments | Preferred Transmission Route | Unevaluated Wetland (NPCA) | Greenbelt Natural Heritage System |
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| Proposed Turbine Location | Collector Lines - Underground or Overhead | Other/Locally Significant Wetland (MNR) | |
| Turbine Relocated | Fibre Optic Line | Deer Wintering Yard (MNR) | |
| Turbine Blade Length | Potential Access Road | | |

Notes

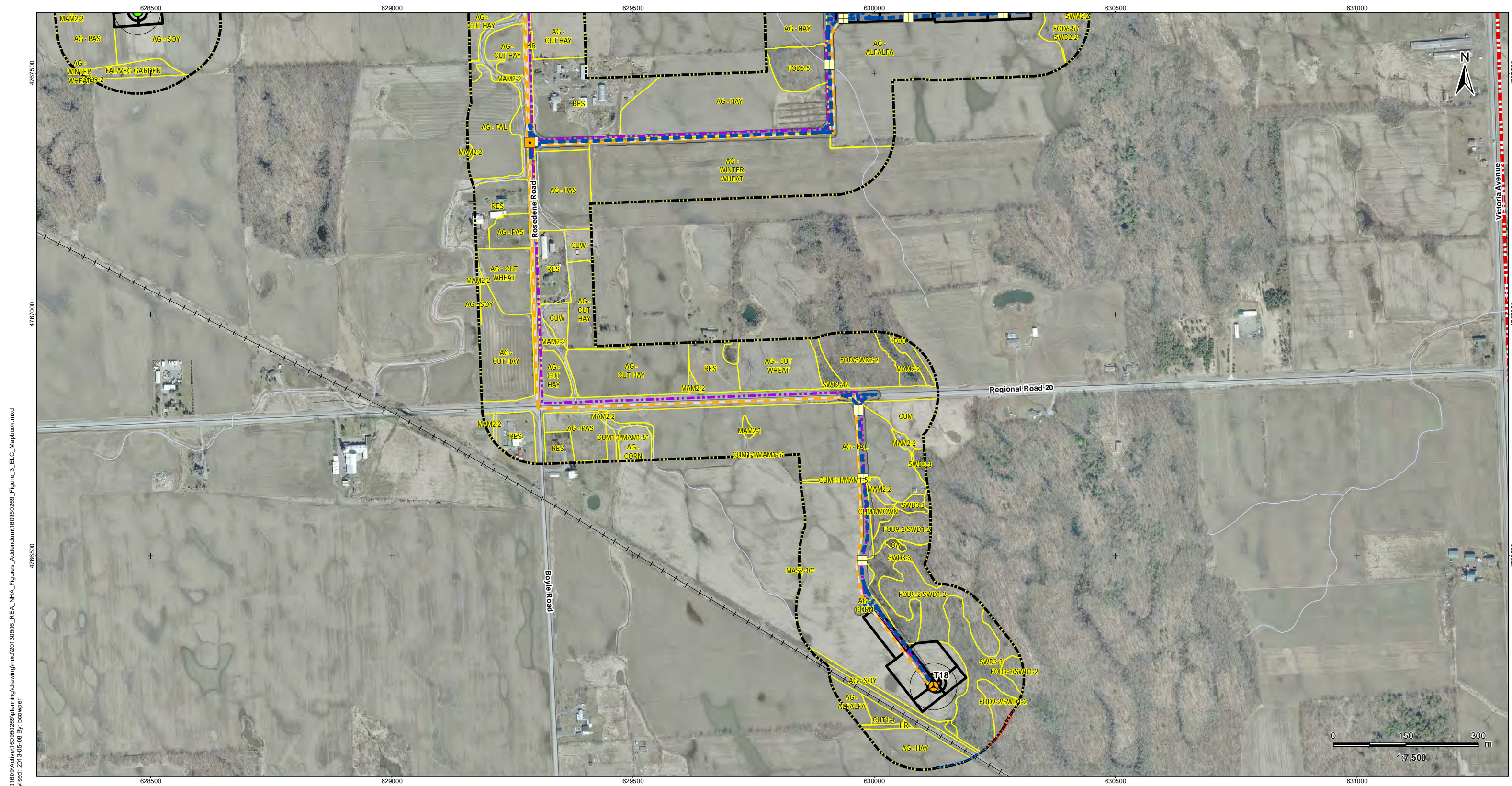
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Figure No.
2.32

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**Records Review -
Natural Features
Figure 2.32
Revised**



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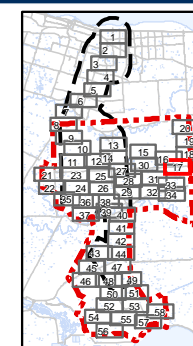


Legend

- Project Study Area
- Interconnector Study Area
- 120m Zone of Investigation
- Zone of Investigation Adjustments**
- Area Added
- Area Removed
- ELC Boundary
- Proposed Turbine Location
- Turbine Relocated
- Turbine Blade Length
- Tap-in Location
- Junction Box
- Proposed Culvert
- Preferred Transmission Line Route
- Alternate Transmission Route
- Collector Lines – Underground or Overhead
- Temporary Laydown Area
- Fibre Optic Line
- Potential Access Road
- Access Road 20m Construction Area
- Potential Construction Laydown Area
- Transformer Substation

Notes

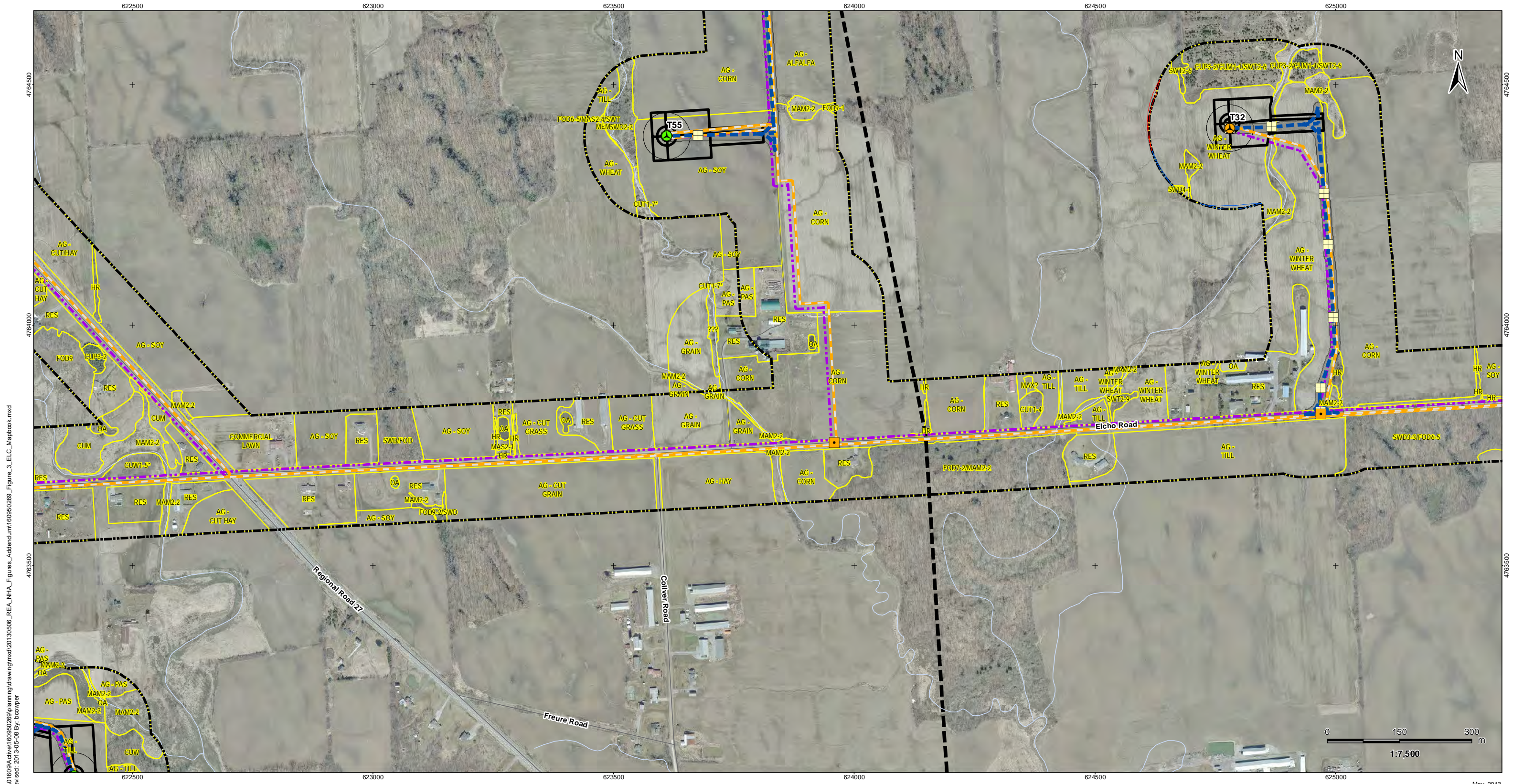
1. Coordinate System: NAD 1983 UTM Zone 17N).
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Niagara Region Wind Corporation
Natural Heritage Assessment Report

Figure No.
3.17

Title
**ELC Vegetation
Communities - Figure 3.17
Revised**



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 Revised: 2013-05-08 By: bcooper

May, 2013
160950269

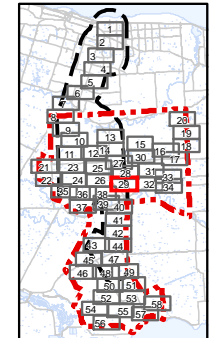


Legend

- | | | |
|--|---|-------------------------------------|
| Project Study Area | Turbine Blade Length | Fibre Optic Line |
| Interconnector Study Area | Tap-in Location | Potential Access Road |
| 120m Zone of Investigation | Junction Box | Access Road 20m Construction Area |
| Zone of Investigation Adjustments | | |
| Area Added | Proposed Culvert | Potential Construction Laydown Area |
| Area Removed | Preferred Transmission Line Route | Transformer Substation |
| ELC Boundary | Alternate Transmission Route | |
| Proposed Turbine Location | Collector Lines – Underground or Overhead | |
| Turbine Relocated | Temporary Laydown Area | |

Notes

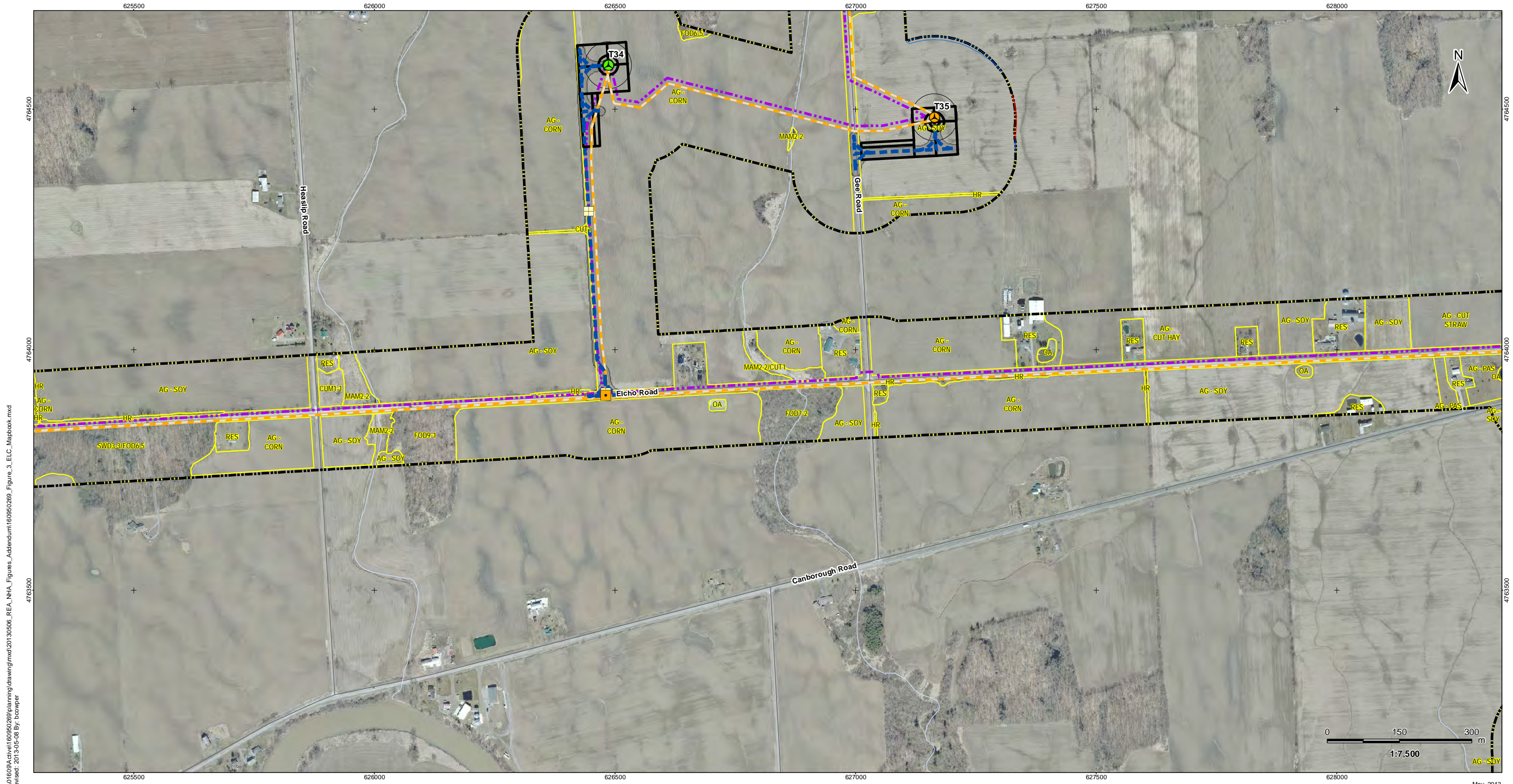
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Client/Project
 Niagara Region Wind Corporation
 Natural Heritage Assessment Report

Figure No.
 3.29

Title
**ELC Vegetation
 Communities - Figure 3.29
 Revised**



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 Revised: 2013-05-08 By: bcowper

May, 2013
160950269

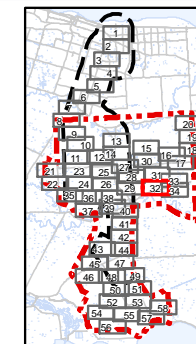


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|--------------------|---------------------------|----------------------------|-----------------------------------|------------|--------------|--------------|---------------------------|-------------------|----------------------|-----------------|--------------|------------------|-----------------------------------|------------------------------|---|------------------------|------------------|-----------------------|-----------------------------------|-------------------------------------|------------------------|
| Project Study Area | Interconnector Study Area | 120m Zone of Investigation | Zone of Investigation Adjustments | Area Added | Area Removed | ELC Boundary | Proposed Turbine Location | Turbine Relocated | Turbine Blade Length | Tap-in Location | Junction Box | Proposed Culvert | Preferred Transmission Line Route | Alternate Transmission Route | Collector Lines – Underground or Overhead | Temporary Laydown Area | Fibre Optic Line | Potential Access Road | Access Road 20m Construction Area | Potential Construction Laydown Area | Transformer Substation |
|--------------------|---------------------------|----------------------------|-----------------------------------|------------|--------------|--------------|---------------------------|-------------------|----------------------|-----------------|--------------|------------------|-----------------------------------|------------------------------|---|------------------------|------------------|-----------------------|-----------------------------------|-------------------------------------|------------------------|

Notes

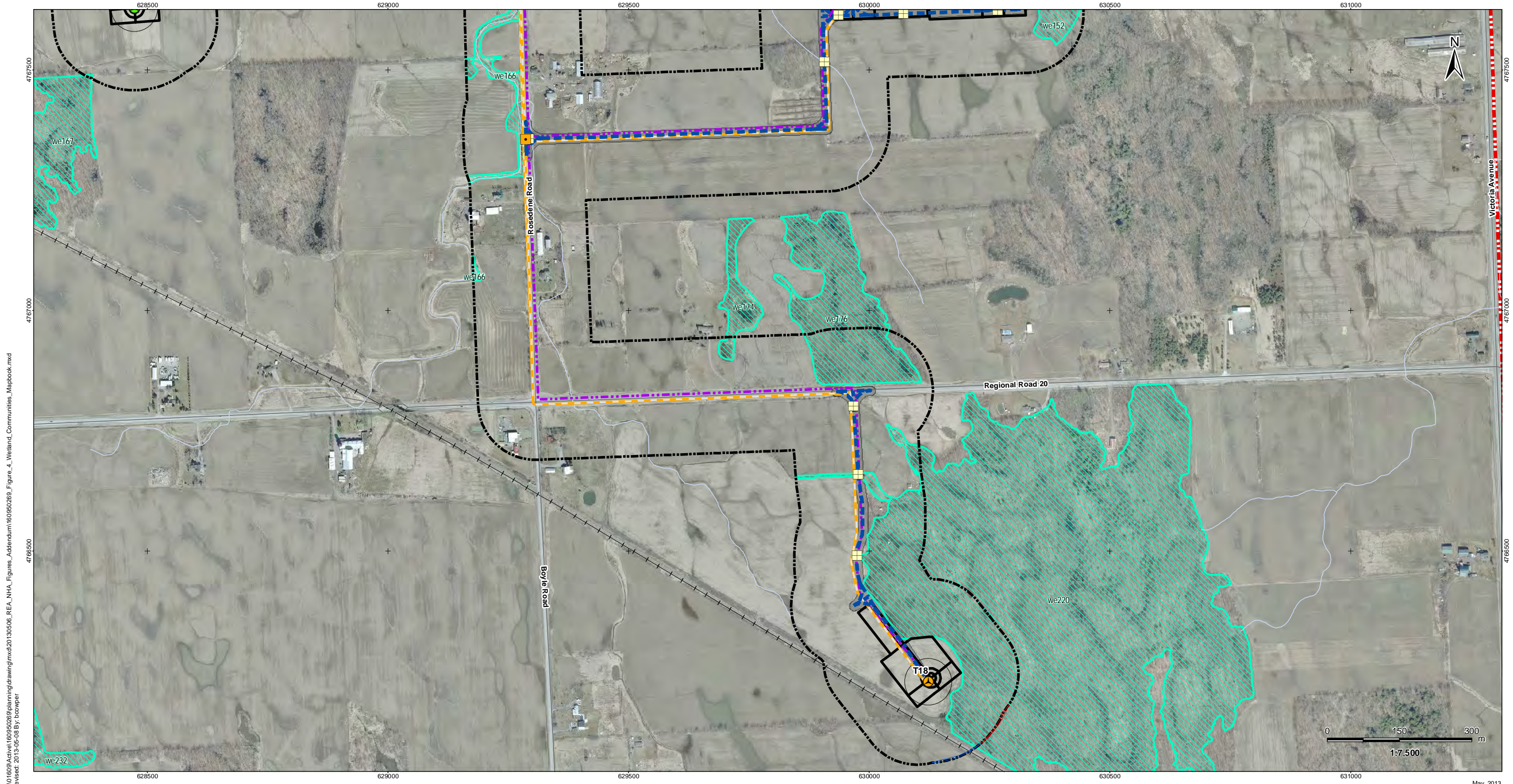
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Niagara Region Wind Corporation
Natural Heritage Assessment Report

Figure No.
3.32

Title
**ELC Vegetation
Communities - Figure 3.32
Revised**



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 Revised: 2013-05-08 By: bowper

May, 2013
160950269

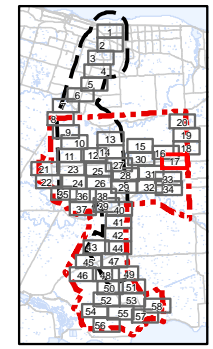


Legend

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|--|------------------------------|---|
| Project Study Area | Proposed Turbine Location | Temporary Laydown Area |
| Interconnector Study Area | Turbine Relocated | Collector Lines – Underground or Overhead |
| 120m Zone of Investigation | Turbine Blade Length | Fibre Optic Line |
| Zone of Investigation Adjustments | Tap-in Location | Potential Access Road |
| Area Added | Junction Box | Access Road 20m Construction Area |
| Area Removed | Proposed Culvert | Potential Construction Laydown Area |
| | Preferred Transmission Route | Transformer Substation |
| | Alternate Transmission Route | Wetland Communities |

Notes

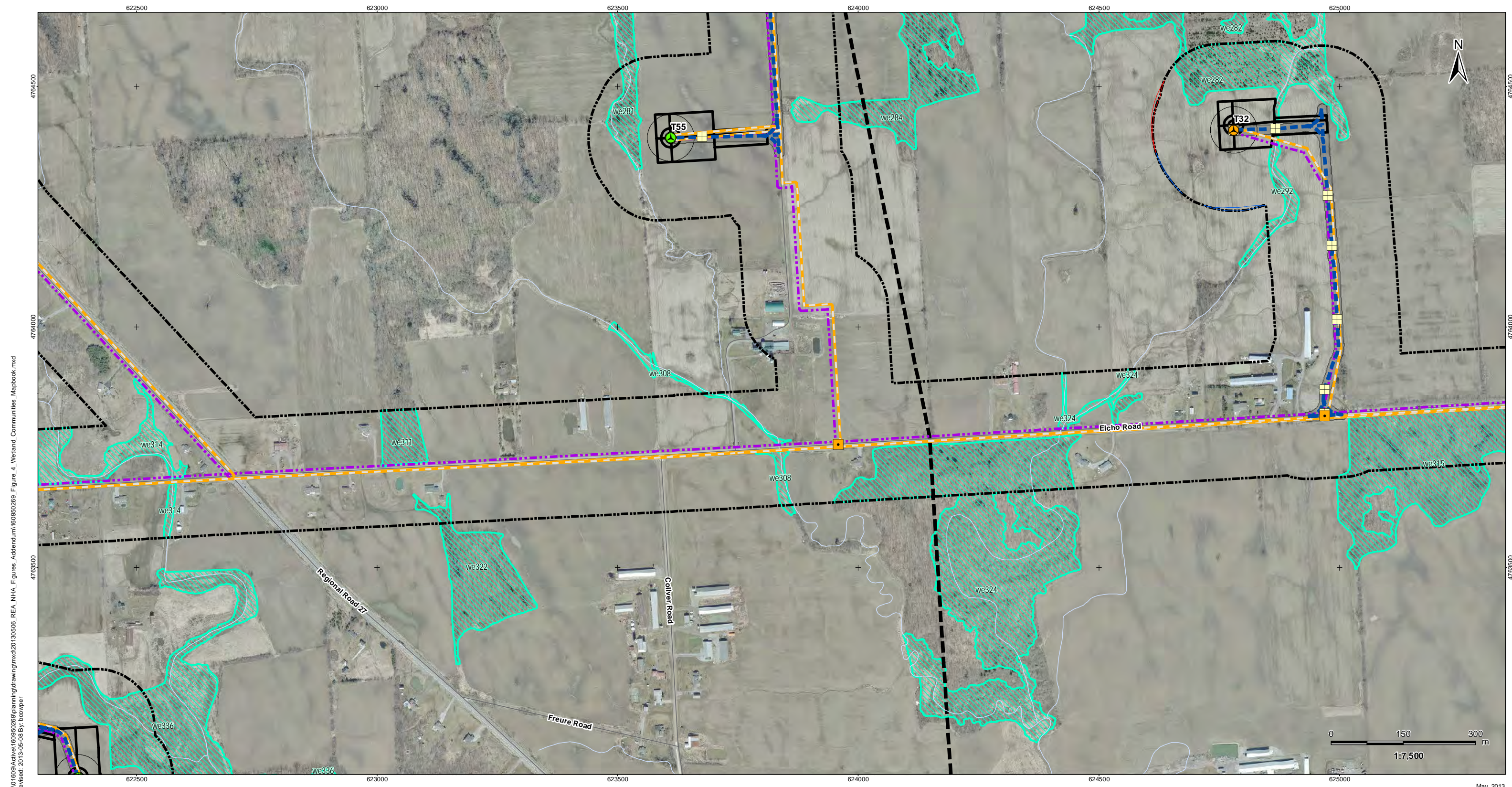
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Client/Project
 Niagara Region Wind Corporation
 Natural Heritage Assessment Report

Figure No.
 4.17

Title
Wetland Communities
Figure 4.17
Revised



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 Revised: 2013-05-08 By: bowper

May, 2013
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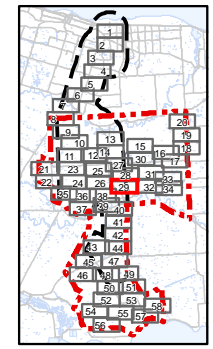


Legend

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|--|------------------------------|---|
| Project Study Area | Proposed Turbine Location | Temporary Laydown Area |
| Interconnector Study Area | Turbine Relocated | Collector Lines – Underground or Overhead |
| 120m Zone of Investigation | Turbine Blade Length | Fibre Optic Line |
| Zone of Investigation Adjustments | Tap-in Location | Potential Access Road |
| Area Added | Junction Box | Access Road 20m Construction Area |
| Area Removed | Proposed Culvert | Potential Construction Laydown Area |
| | Preferred Transmission Route | Transformer Substation |
| | Alternate Transmission Route | Wetland Communities |

Notes

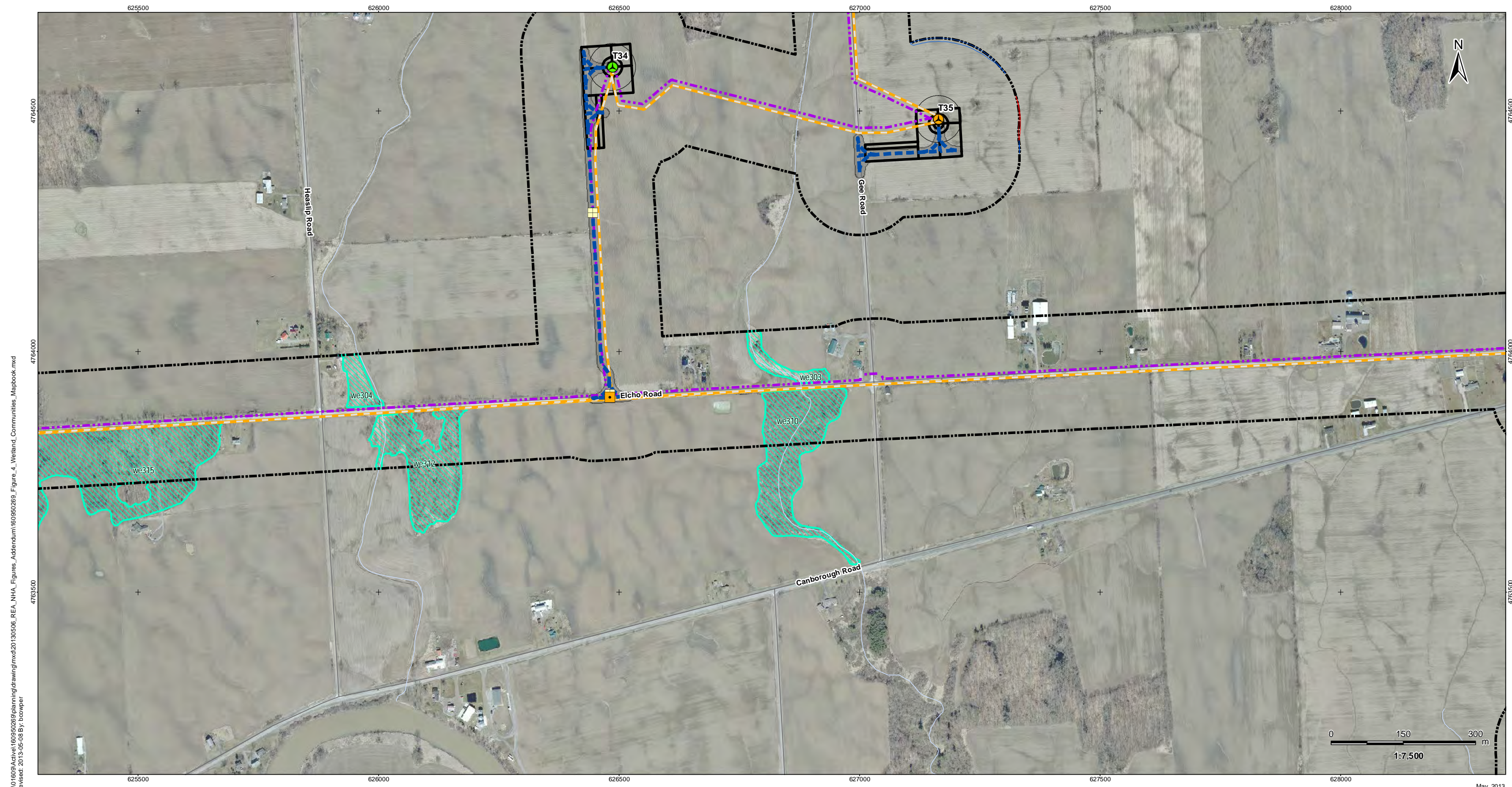
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 Natural Heritage Assessment Report

Figure No.
 4.29

Title
Wetland Communities
Figure 4.29
Revised



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 Revised: 2013-05-08 By: bowper

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160950269

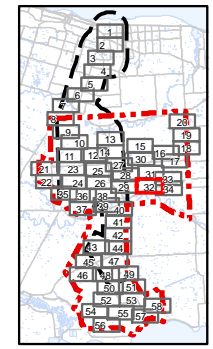


Legend

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|--|------------------------------|---|
| Project Study Area | Proposed Turbine Location | Temporary Laydown Area |
| Interconnector Study Area | Turbine Relocated | Collector Lines – Underground or Overhead |
| 120m Zone of Investigation | Turbine Blade Length | Fibre Optic Line |
| Zone of Investigation Adjustments | Tap-in Location | Potential Access Road |
| Area Added | Junction Box | Access Road 20m Construction Area |
| Area Removed | Proposed Culvert | Potential Construction Laydown Area |
| | Preferred Transmission Route | Transformer Substation |
| | Alternate Transmission Route | Wetland Communities |

Notes

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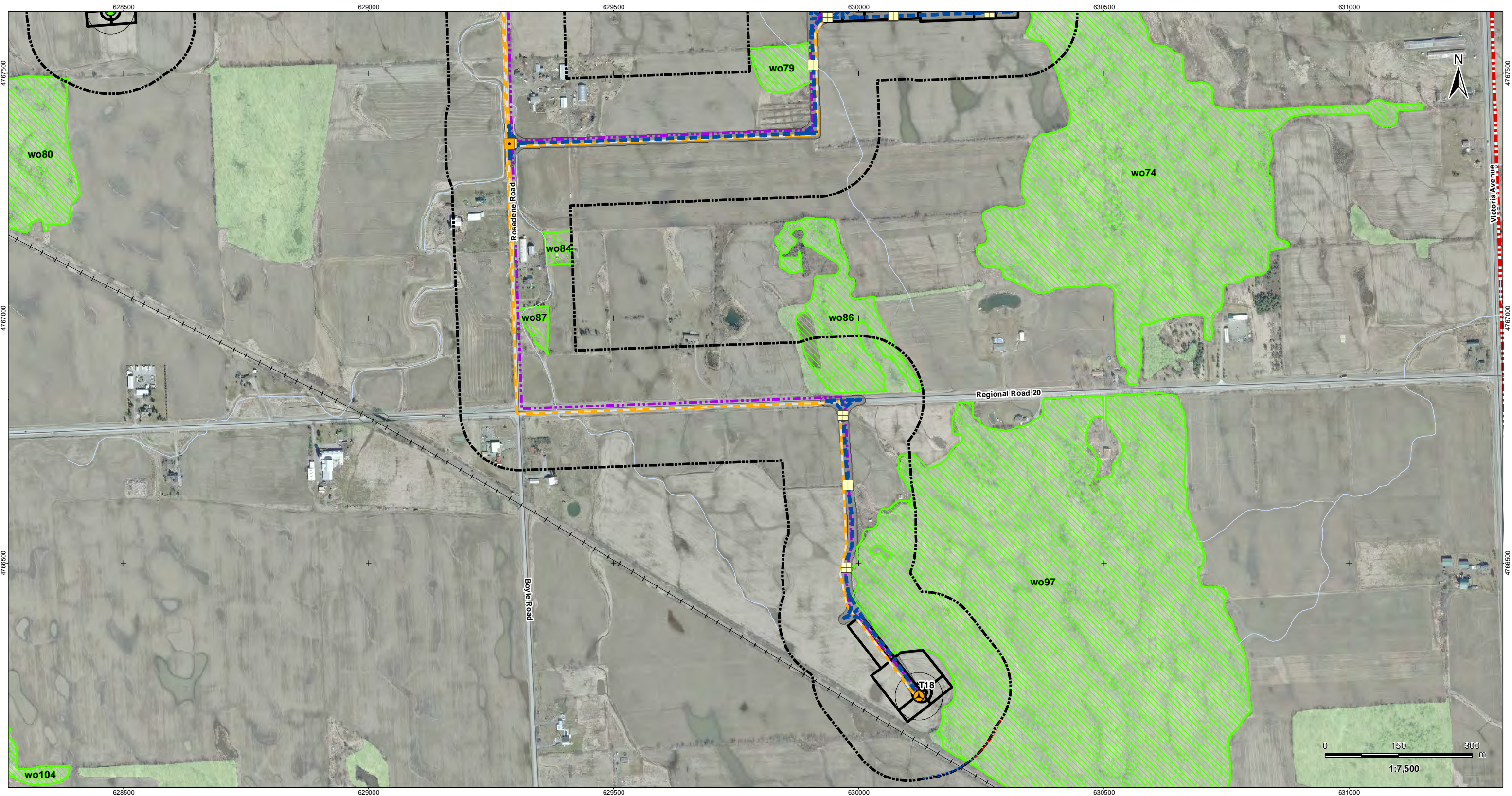


Client/Project
 Niagara Region Wind Corporation
 Natural Heritage Assessment Report

Figure No.
 4.32

Title
Wetland Communities
Figure 4.32
Revised

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 Revised: 2013-05-08 By: bcwper



May, 2013
 160950269

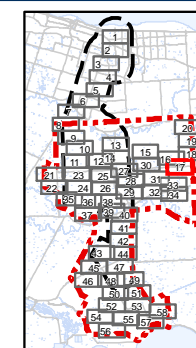


Legend

- | | | |
|-----------------------------------|---|-------------------------------------|
| Project Study Area | Turbine Blade Length | Potential Access Road |
| Interconnector Study Area | Tap-in Location | Access Road 20m Construction Area |
| 120m Zone of Investigation | Junction Box | Fibre Optic Line |
| Zone of Investigation Adjustments | Proposed Culvert | Potential Construction Laydown Area |
| Area Added | Preferred Transmission Route | Transformer Substation |
| Area Removed | Alternate Transmission Route | Woodland Communities |
| Proposed Turbine Location | Temporary Laydown Area | MNR Wooded Area |
| Turbine Relocated | Collector Lines – Underground or Overhead | |

Notes

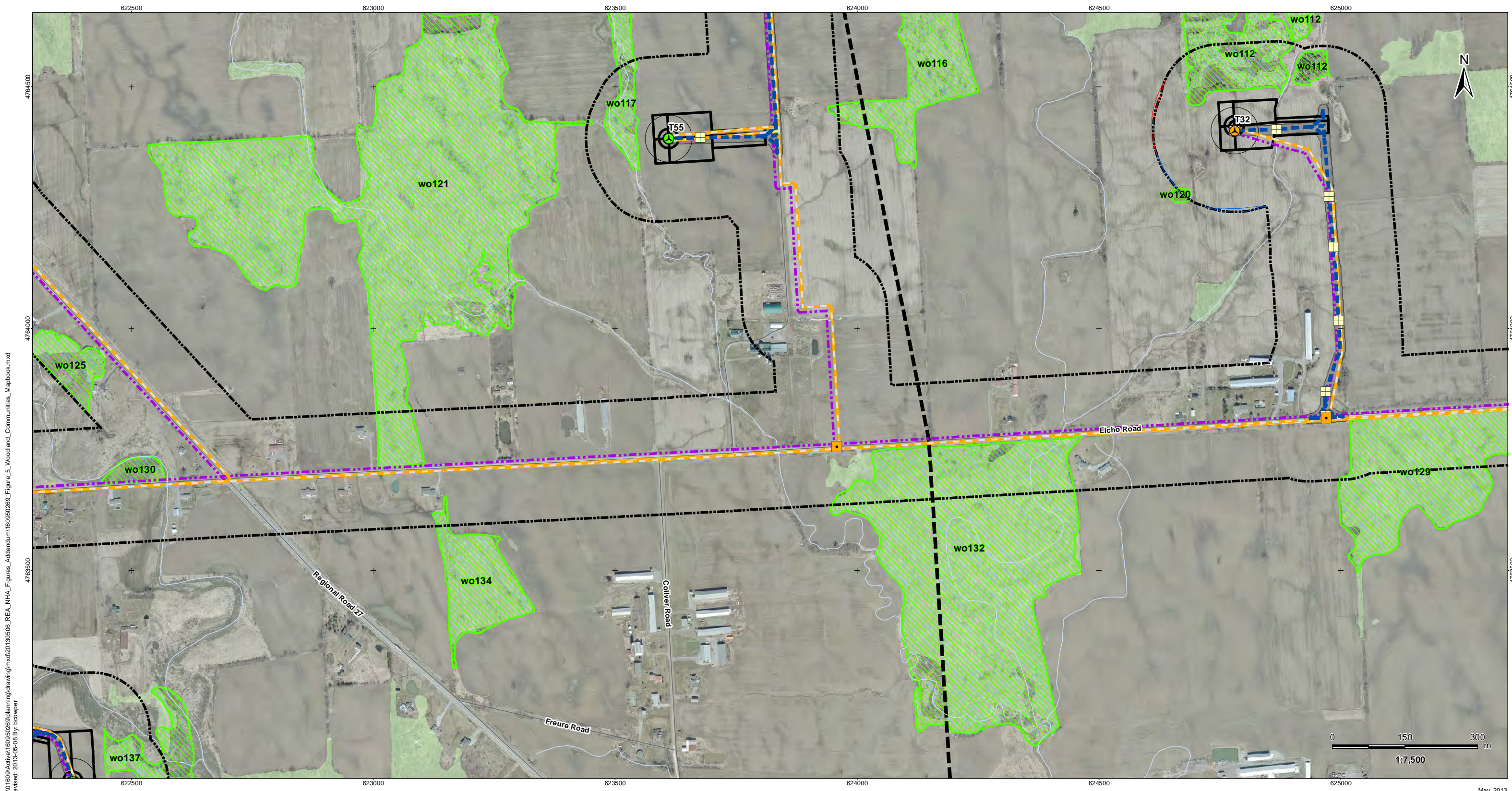
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 Niagara Region Wind Corporation
 Natural Heritage Assessment Report

Figure No.
 5.17

Title
Woodland Communities
Figure 5.17
Revised



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 Revised: 2013-05-08 By: bcowper

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160950269

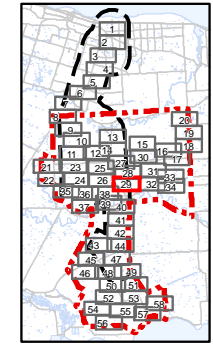


Legend

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|-----------------------------------|---|-------------------------------------|
| Project Study Area | Turbine Blade Length | Potential Access Road |
| Interconnector Study Area | Tap-in Location | Access Road 20m Construction Area |
| 120m Zone of Investigation | Junction Box | Fibre Optic Line |
| Zone of Investigation Adjustments | Proposed Culvert | Potential Construction Laydown Area |
| Area Added | Preferred Transmission Route | Transformer Substation |
| Area Removed | Alternate Transmission Route | Woodland Communities |
| Proposed Turbine Location | Temporary Laydown Area | MNR Wooded Area |
| Turbine Relocated | Collector Lines – Underground or Overhead | |

Notes

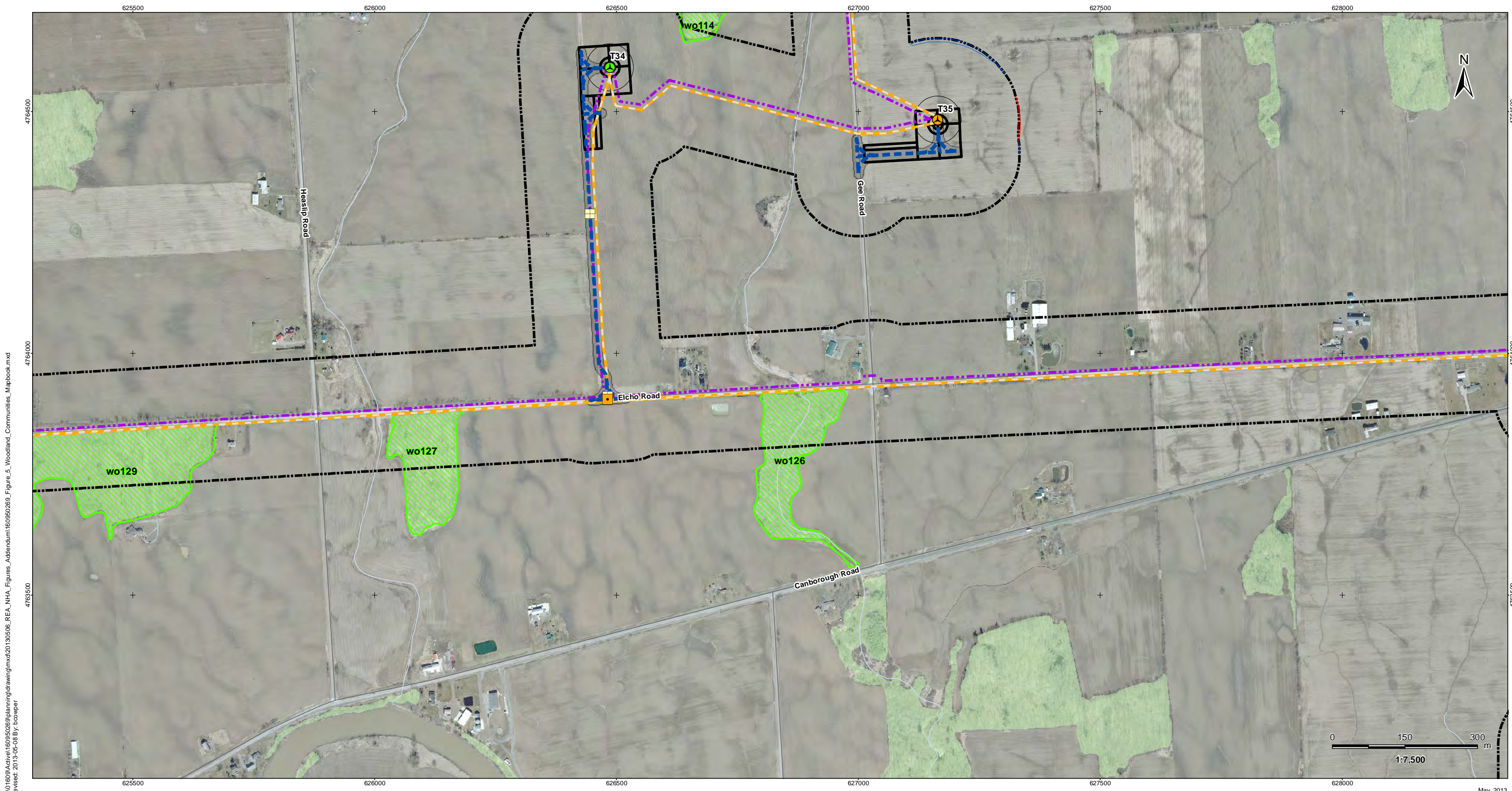
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 Niagara Region Wind Corporation
 Natural Heritage Assessment Report

Figure No.
 5.29

Title
Woodland Communities
Figure 5.29
Revised



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 Revised: 2013-05-08 By: bcowper

May, 2013
160950269

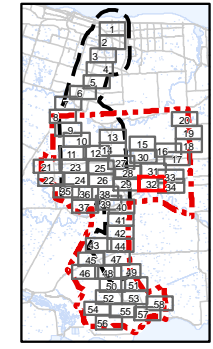


Legend

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|--|---|-------------------------------------|
| Project Study Area | Turbine Blade Length | Potential Access Road |
| Interconnector Study Area | Tap-in Location | Access Road 20m Construction Area |
| 120m Zone of Investigation | Junction Box | Fibre Optic Line |
| Zone of Investigation Adjustments | Proposed Culvert | Potential Construction Laydown Area |
| Area Added | Preferred Transmission Route | Transformer Substation |
| Area Removed | Alternate Transmission Route | Woodland Communities |
| Proposed Turbine Location | Temporary Laydown Area | MNR Wooded Area |
| Turbine Relocated | Collector Lines – Underground or Overhead | |

Notes

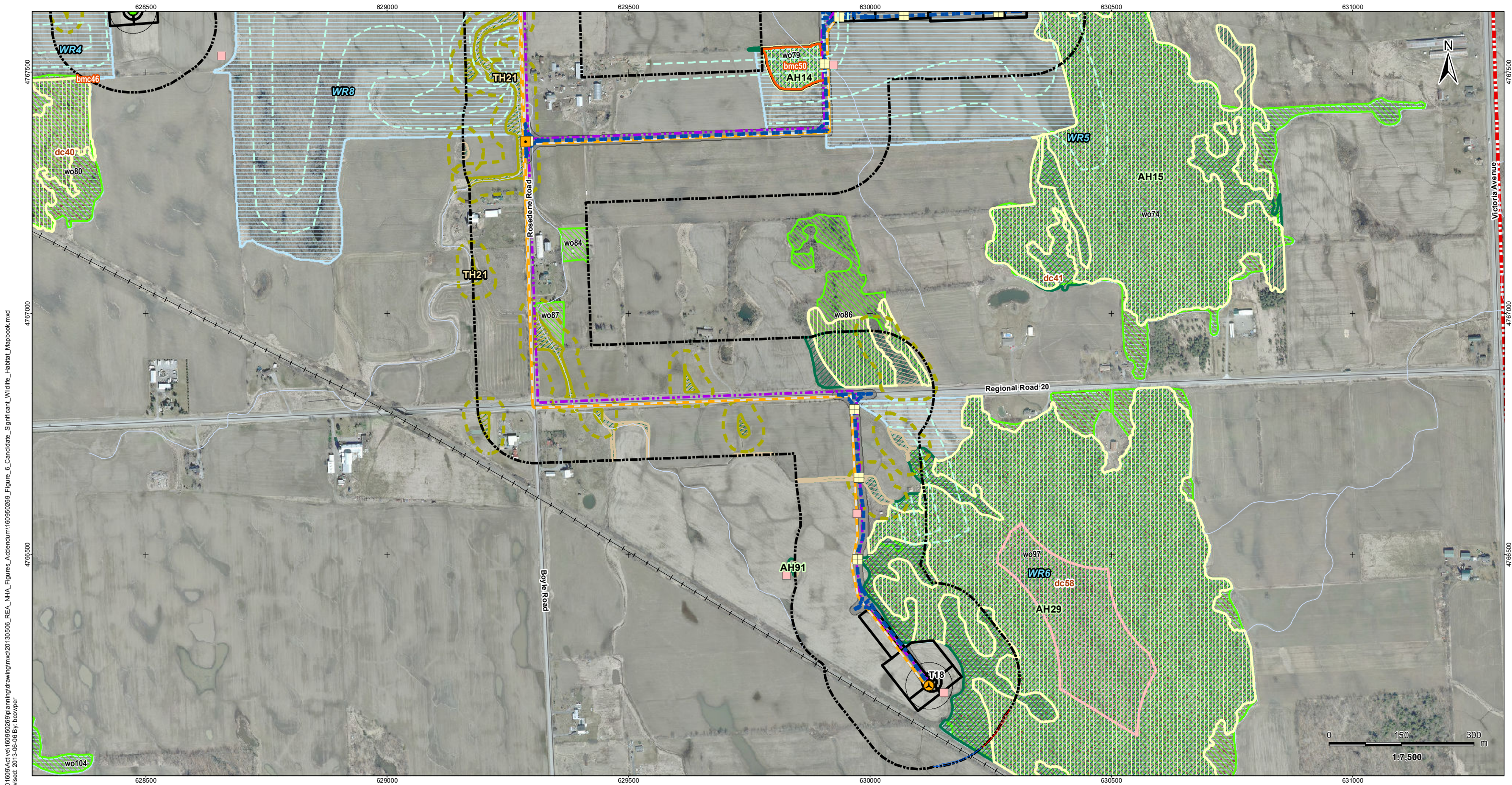
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 Niagara Region Wind Corporation
 Natural Heritage Assessment Report

Figure No.
 5.32

Title
Woodland Communities
Figure 5.32
Revised



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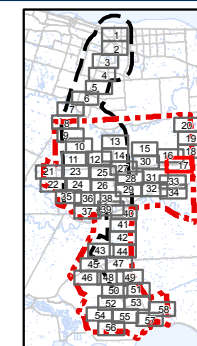
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Legend

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|--|---|-------------------------------------|--|---|
| Project Study Area | Tap-in Location | Potential Access Road | Winter Raptor Transect | Woodland Vole Habitat |
| Interconnector Study Area | Junction Box | Access Road 20m Construction Area | Woodland Communities | Terrestrial Crayfish Habitat |
| 120m Zone of Investigation | Proposed Culvert | Potential Construction Laydown Area | Deer Congregation Areas (MNR) | Turtle Nesting Habitat/ Snapping Turtle Habitat |
| Zone of Investigation Adjustments | Preferred Transmission Route | Transformer Substation | Landbird Migratory Stopover | Turtle Habitat 30m Buffer |
| Area Added | Alternate Transmission Route | Amphibian Breeding Stations | Other Rare Vegetation Community | Turtle Wintering Area |
| Area Removed | Temporary Laydown Area | Snake Hibernacula | Amphibian Breeding Habitat | Bat Maternity Colonies |
| Proposed Turbine Location | Collector Lines - Underground or Overhead | Snake Hibernacula 30m Buffer | Cliff and Talus Communities | |
| Turbine Relocated | Fibre Optic Line | MBB Point Count Location | Raptor Wintering Areas | |
| Turbine Blade Length | | Migratory Bird Transect | Woodland Raptor Nesting Habitat/ Woodland Area Sensitive Bird Breeding Habitat | |

Notes

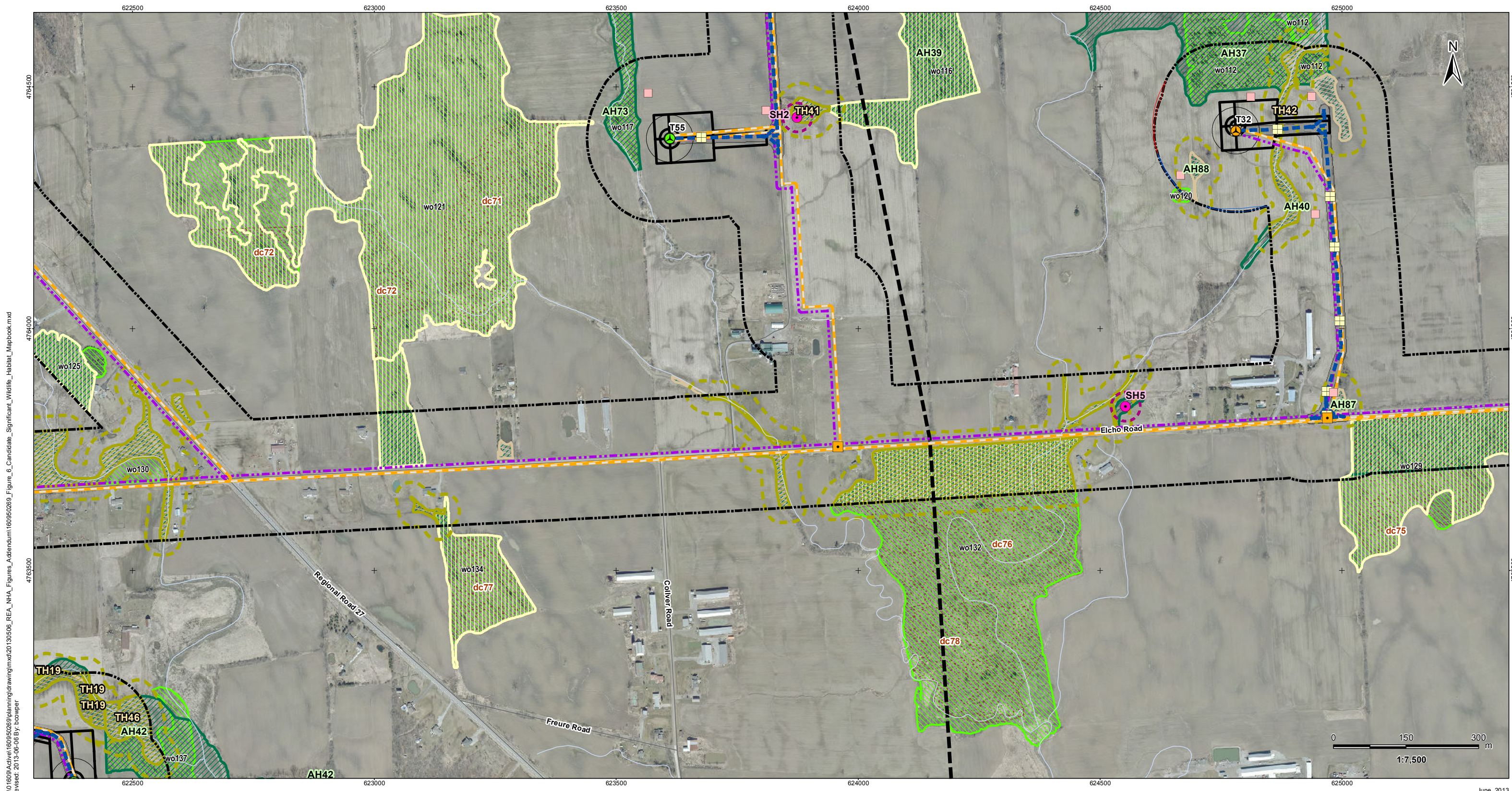
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Client/Project
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Natural Heritage Assessment Report

Figure No.
6.17

Title
**Candidate Significant
Wildlife Habitat
Figure 6.17
Revised**



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 Revised: 2013-06-06 By: boowper

June, 2013
160950269

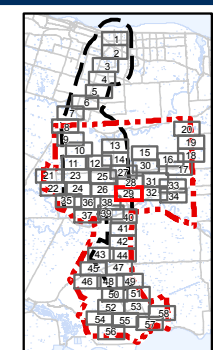


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|--|---|-------------------------------------|--|---|
| Project Study Area | Tap-in Location | Potential Access Road | Winter Raptor Transect | Woodland Vole Habitat |
| Interconnector Study Area | Junction Box | Access Road 20m Construction Area | Woodland Communities | Terrestrial Crayfish Habitat |
| 120m Zone of Investigation | Proposed Culvert | Potential Construction Laydown Area | Deer Congregation Areas (MNR) | Turtle Nesting Habitat/ Snapping Turtle Habitat |
| Zone of Investigation Adjustments | Preferred Transmission Route | Transformer Substation | Landbird Migratory Stopover | Turtle Habitat 30m Buffer |
| Area Added | Alternate Transmission Route | Amphibian Breeding Stations | Other Rare Vegetation Community | Turtle Wintering Area |
| Area Removed | Temporary Laydown Area | Snake Hibernacula | Amphibian Breeding Habitat | Bat Maternity Colonies |
| Proposed Turbine Location | Collector Lines – Underground or Overhead | Snake Hibernacula 30m Buffer | Cliff and Talus Communities | |
| Turbine Relocated | Fibre Optic Line | MBB Point Count Location | Raptor Wintering Areas | |
| Turbine Blade Length | | Migratory Bird Transect | Woodland Raptor Nesting Habitat/ Woodland Area Sensitive Bird Breeding Habitat | |

Notes

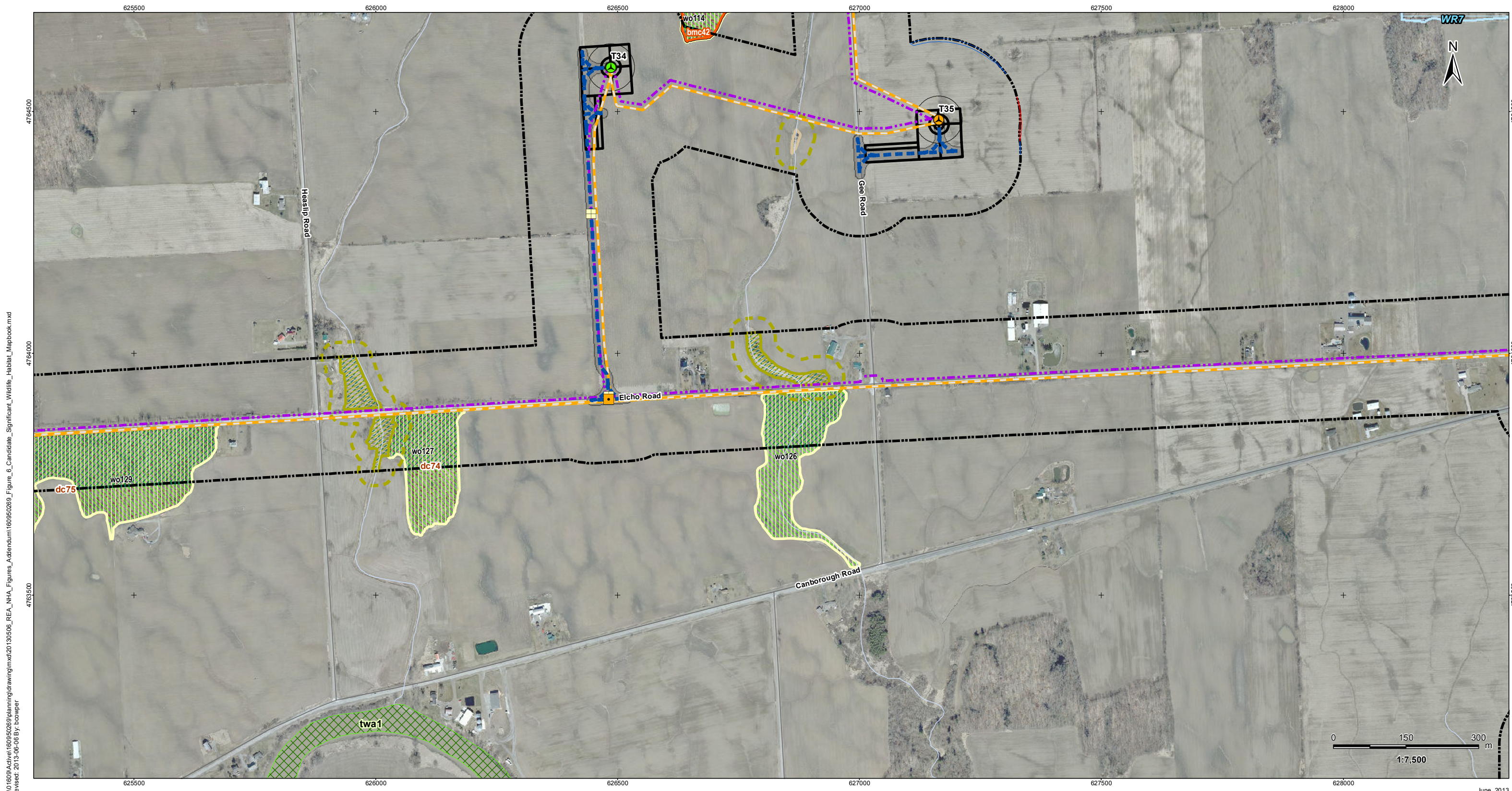
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Client/Project
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Natural Heritage Assessment Report

Figure No.
6.29

Title
**Candidate Significant
Wildlife Habitat
Figure 6.29
Revised**



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 Revised: 2013-06-06 By: boowper

June, 2013
160950269

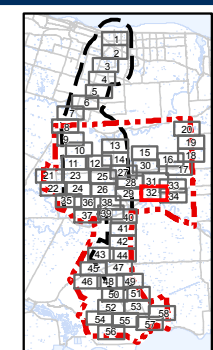


Legend

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|--|---|-------------------------------------|--|---|
| Project Study Area | Tap-in Location | Potential Access Road | Winter Raptor Transect | Woodland Vole Habitat |
| Interconnector Study Area | Junction Box | Access Road 20m Construction Area | Woodland Communities | Terrestrial Crayfish Habitat |
| 120m Zone of Investigation | Proposed Culvert | Potential Construction Laydown Area | Deer Congregation Areas (MNR) | Turtle Nesting Habitat/ Snapping Turtle Habitat |
| Zone of Investigation Adjustments | Preferred Transmission Route | Transformer Substation | Landbird Migratory Stopover | Turtle Habitat 30m Buffer |
| Area Added | Alternate Transmission Route | Amphibian Breeding Stations | Other Rare Vegetation Community | Turtle Wintering Area |
| Area Removed | Temporary Laydown Area | Snake Hibernacula | Amphibian Breeding Habitat | Bat Maternity Colonies |
| Proposed Turbine Location | Collector Lines – Underground or Overhead | Snake Hibernacula 30m Buffer | Cliff and Talus Communities | |
| Turbine Relocated | Fibre Optic Line | MBB Point Count Location | Raptor Wintering Areas | |
| Turbine Blade Length | | Migratory Bird Transect | Woodland Raptor Nesting Habitat/ Woodland Area Sensitive Bird Breeding Habitat | |

Notes

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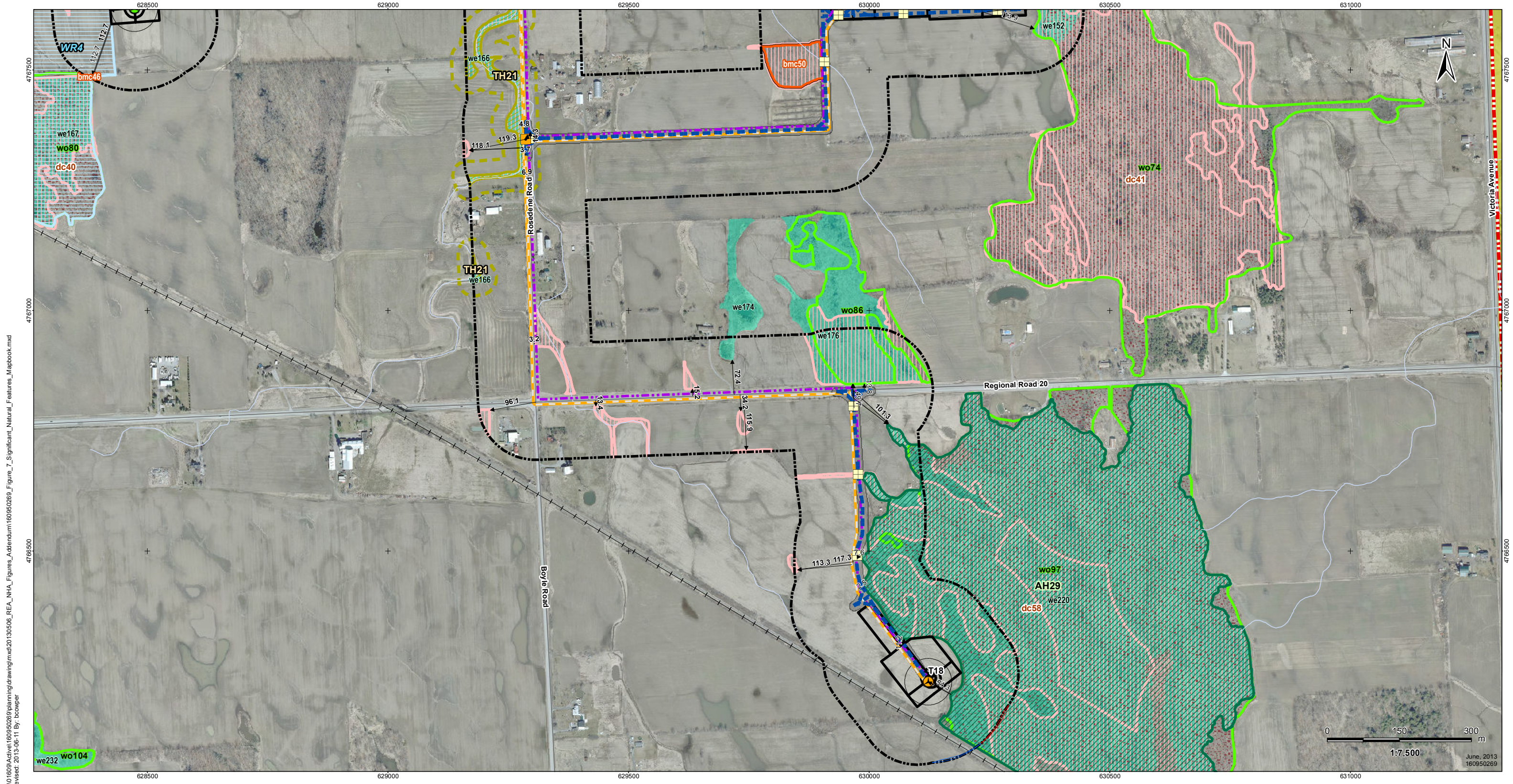


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 Niagara Region Wind Corporation
 Natural Heritage Assessment Report

Figure No.
 6.32

Title
**Candidate Significant
 Wildlife Habitat
 Figure 6.32
 Revised**





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 Revised: 2013-06-11 By: bcowper



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Legend

- Project Study Area
- Interconnector Study Area
- 120m Zone of Investigation
- Zone of Investigation Adjustments**
- Area Added
- Area Removed
- Proposed Turbine Location
- Turbine Relocated
- Turbine Blade Length
- Tap-in Location
- Junction Box
- Proposed Culvert
- Preferred Transmission Line Route
- Alternate Transmission Route
- Temporary Laydown Area
- Collector Lines – Underground or Overhead
- Fibre Optic Line
- Potential Access Road
- Access Road 20m Construction Area
- Potential Construction Laydown Area
- Transformer Substation

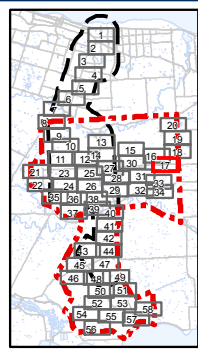
- Significant Wildlife Habitat**
- Snake Hibernacula
 - Snake Hibernacula 30m Buffer
 - Landbird Migratory Stopover
 - Raptor Wintering Areas
 - Wetland Communities
 - Other Rare Vegetation Community
 - Woodland Amphibian Breeding Habitat
 - Wetland Amphibian Breeding Habitat
 - Woodland Communities

- ANSI, Earth Science, Provincially Significant
- ANSI, Life Science, Provincially Significant
- ANSI, Life Science, Regionally Significant
- Niagara Escarpment Protection Area
- Greenbelt Natural Heritage System
- Turtle Nesting Habitat/Snapping Turtle Habitat
- Turtle Habitat 30m Buffer
- Turtle Wintering Area

- Generalized Habitat**
- Snake Hibernacula
 - Generalized Wildlife Habitat
 - Deer Congregation Areas (MNR) (Generalized)
 - Bat Maternity Colonies

Notes

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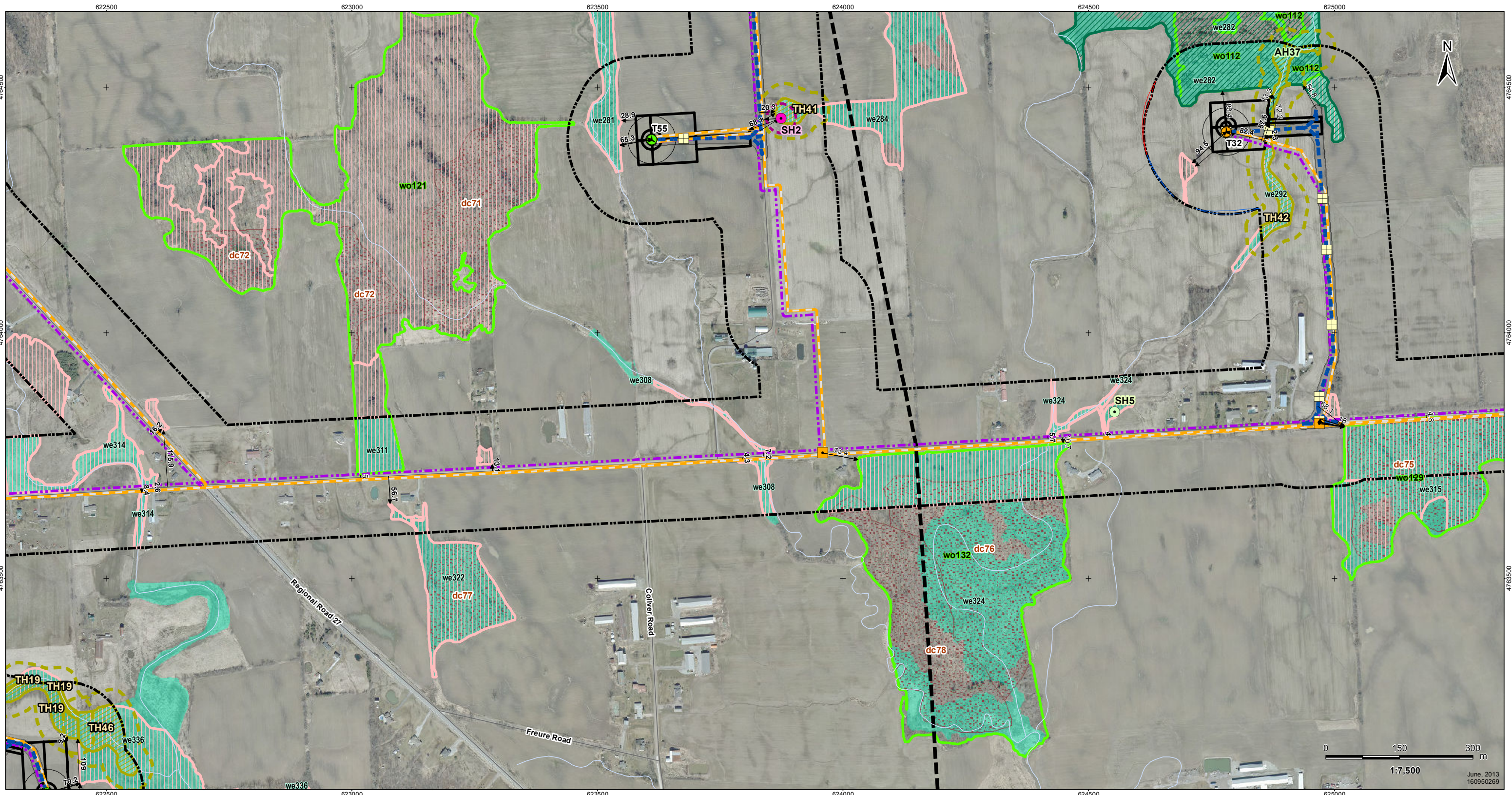


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 Niagara Region Wind Corporation
 Natural Heritage Assessment Report

Figure No.
 7.17

Title
Significant Natural Features
Figure 7.17
 Revised





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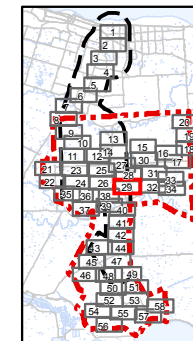
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| <ul style="list-style-type: none"> Project Study Area Interconnector Study Area 120m Zone of Investigation Zone of Investigation Adjustments Area Added Area Removed Proposed Turbine Location Turbine Relocated Turbine Blade Length Tap-in Location | <ul style="list-style-type: none"> Junction Box Proposed Culvert Preferred Transmission Line Route Alternate Transmission Route Temporary Laydown Area Collector Lines - Underground or Overhead Fibre Optic Line Potential Access Road Access Road 20m Construction Area Potential Construction Laydown Area Transformer Substation | Significant Wildlife Habitat <ul style="list-style-type: none"> Snake Hibernacula Snake Hibernacula 30m Buffer Landbird Migratory Stopover Raptor Wintering Areas Wetland Communities Other Rare Vegetation Community Woodland Amphibian Breeding Habitat Wetland Amphibian Breeding Habitat Woodland Communities | <ul style="list-style-type: none"> ANSI, Earth Science, Provincially Significant ANSI, Life Science, Provincially Significant ANSI, Life Science, Regionally Significant Niagara Escarpment Protection Area Greenbelt Natural Heritage System Turtle Nesting Habitat/Snapping Turtle Habitat Turtle Habitat 30m Buffer Turtle Wintering Area |
|---|--|--|--|

- Generalized Habitat**
- Snake Hibernacula
 - Generalized Wildlife Habitat
 - Deer Congregation Areas (MNR) (Generalized)
 - Bat Maternity Colonies

Notes

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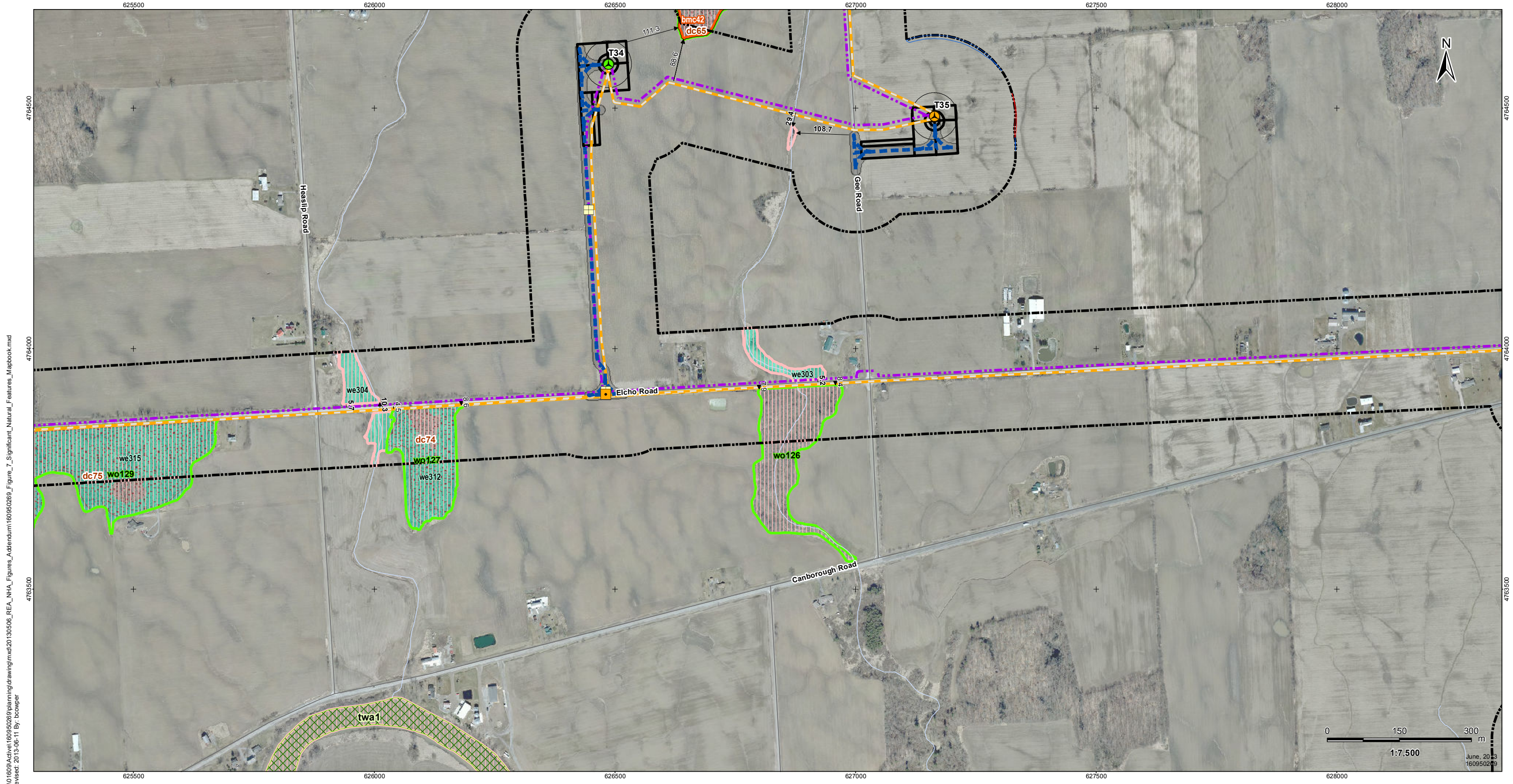


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 Niagara Region Wind Corporation
 Natural Heritage Assessment Report

Figure No.
 7.29

Title
Significant Natural Features
Figure 7.29
 Revised

June, 2013
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 Revised: 2013-06-11 By: bcowper

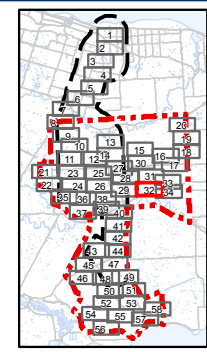


Legend

- | | | | | |
|---|--|--|--|---|
| <ul style="list-style-type: none"> Project Study Area Interconnector Study Area 120m Zone of Investigation Zone of Investigation Adjustments Area Added Area Removed Proposed Turbine Location Turbine Relocated Turbine Blade Length Tap-in Location | <ul style="list-style-type: none"> Junction Box Proposed Culvert Preferred Transmission Line Route Alternate Transmission Route Temporary Laydown Area Collector Lines – Underground or Overhead Fibre Optic Line Potential Access Road Access Road 20m Construction Area Potential Construction Laydown Area Transformer Substation | Significant Wildlife Habitat <ul style="list-style-type: none"> Snake Hibernacula Snake Hibernacula 30m Buffer Landbird Migratory Stopover Raptor Wintering Areas Wetland Communities Other Rare Vegetation Community Woodland Amphibian Breeding Habitat Wetland Amphibian Breeding Habitat Woodland Communities | <ul style="list-style-type: none"> ANSI, Earth Science, Provincially Significant ANSI, Life Science, Provincially Significant ANSI, Life Science, Regionally Significant Niagara Escarpment Protection Area Greenbelt Natural Heritage System Turtle Nesting Habitat/Snapping Turtle Habitat Turtle Habitat 30m Buffer Turtle Wintering Area | Generalized Habitat <ul style="list-style-type: none"> Snake Hibernacula Generalized Wildlife Habitat Deer Congregation Areas (MNR) (Generalized) Bat Maternity Colonies |
|---|--|--|--|---|

Notes

- Coordinate System: NAD 1983 UTM Zone 17N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
- Orthoimagery © First Base Solutions, 2010.



Client/Project
 Niagara Region Wind Corporation
 Natural Heritage Assessment Report

Figure No.
 7.32

Title
Significant Natural Features
Figure 7.32
 Revised

June, 2013
 160950269