

Goshen Wind, Inc.

Revision to the Design and Operations Report – Goshen Wind Energy Centre

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Glossary of Terms

- EIS Environmental Impact Study
- MNR..... Ontario Ministry of Natural Resources
- mVA mega Volt-Ampere
- NextEra NextEra Energy Canada, ULC
- O.Reg. 359/09..... Ontario Regulation 359/09
- The Project..... Goshen Wind Energy Centre
- REA..... Renewable Energy Approval

1. Introduction

Goshen Wind, Inc. (Goshen) is proposing to construct a wind energy centre in the Municipality of Bluewater and the Municipality of South Huron in Huron County, Ontario. The following sections of this Renewable Energy Approval (REA) Revision Report describe the proposed modifications to this Project and resulting updates to the Design and Operations Report.

1.1 The Proponent

The Project will be owned and operated by Goshen, a wholly owned subsidiary of NextEra Energy Canada, ULC (NextEra). NextEra’s indirect parent company is NextEra Energy Resources, LLC. The proponent has not changed from the initial REA submission.

The primary contacts for the Project are as follows:

Project Proponent	Project Consultant
Nicole Geneau Project Director NextEra Energy Canada, ULC 390 Bay Street, Suite 1720 Toronto, ON M5H 2Y2 Phone:.....1-416-364-9714 Email:Goshen.Wind@NextEraEnergy.com Website: ..www.NextEraEnergyCanada.com	Marc Rose Senior Environmental Planner AECOM 105 Commerce Valley Drive West, Floor 7 Markham, ON, Canada L3T 7W3 Phone:1-905-747-7793 Email:.....marc.rose@aecom.com

1.2 Project Study Area

The proposed Project is located in the Municipality of Bluewater and the Municipality of South Huron in Huron County, Ontario (refer to **Figure 2-1**). The Project Study Area has not changed from the initial REA submission.

The following co-ordinates define the external boundaries of the Project Study Area:

Longitude	Latitude
-81.6753290	43.4155312
-81.3011931	43.3810955
-81.3303330	43.3036317
-81.7743607	43.2379854

2. Proposed Project Modifications

Goshen is proposing modifications to the Project. These proposed Project modifications are categorized as follows:

- Construction disturbance area modified to reduce or eliminate impacts to archaeological resources or Conservation Authority regulation limits;
- Infrastructure or construction disturbance area added or changed to optimize project design/constructability; and,
- Turbine and associated infrastructure removed.

Table 2-1 summarizes and documents the following about each of the proposed modifications:

1. A description of the modification and a rationale for why the modification is proposed; and
2. New potential environmental effects and corresponding mitigation measures.

Figure 2-1 illustrates the modified Project Location. **Appendix A** contains a series of figures showing the details for each of the modifications.

Table 2-1 Summary of Project Modifications

Label on Figure 2-1	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	New Mitigation Measures
A1	Removal of Turbine 7 and associated access road and collection line	Turbine and associated infrastructure removed	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
A2	Removal of a portion of Turbine 11 construction disturbance area	Construction disturbance area modified to reduce or eliminate impacts to Conservation Authority regulation limit	None – removal of infrastructure	N/A
A3	Relocation of collection line to Turbine 9 17 m to southern property boundary, west of Bronson Line	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
B1	Relocation of collection line from private property to Babylon Line and Huron Street right-of-way	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
B2	Temporary construction laydown area modified and increased in size	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
B3	Relocation of Turbine 71 15 m north within the existing turbine construction disturbance area	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
C1	Relocation of access road to Turbine 66 to the west	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
C2	Removal of a portion of construction disturbance area, east of Shipka Line, for the access road and collection line to Turbine 21	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – removal of infrastructure	N/A
C3	Addition of collection line construction disturbance area in the Black Bush Line right-of-way, east of Turbine 86	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
C4	Relocation of collection line from private property to Black Bush Line right-of-way in two locations, northeast of Turbine 64	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
C5	Relocation of collection line from private property to Crediton Road right-of-way, south of Turbine 39	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
C6	Relocation of collection line from private property to Bronson Line right-of-way, southwest of Turbine 81	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
C7	Relocation of collection line from private property to South Road right-of-way, southeast of Turbine 38	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
C8	Relocation of collection line from private property to South Road right-of-way, southwest of Turbine 41	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
C9	Realignment of collection line from Black Bush Line right-of-way onto private property west of Black Bush Line	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
C10	Removal of a portion of collection line disturbance area on private property, along Black Bush Line	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – removal of infrastructure	N/A
D1	Relocation of Turbine 83 and associated construction disturbance area 1,140 m to the east	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	<p>Natural Heritage:</p> <ul style="list-style-type: none"> Generalized Candidate Significant Wildlife Habitat (Amphibian Woodland Breeding Habitat) in Natural Area 255 was changed to Amphibian Woodland Breeding Habitat Feature AWO-36 because it is within 120 m of a proposed access road. Potential effects of operation of the access road include: <ul style="list-style-type: none"> Risk of road mortality to amphibians moving between breeding pools and home range. Turbine is within 120 m of new Generalized Candidate Significant Wildlife Habitat Feature (Plant Species of Conservation Concern Habitat) in Natural Area 227, not previously described in the NHA. There are no potential effects on this feature associated with operation of the turbine. <p>Water Bodies</p> <ul style="list-style-type: none"> Increase in impervious surfaces from presence of turbine foundation and access roads, resulting in increased water temperatures, increased surface runoff and stream peak flows, and reduced infiltration, base flows and upwelling. 	<p>Natural Heritage:</p> <ul style="list-style-type: none"> For operation of the access road within 120 m of Amphibian Woodland Breeding Habitat Feature AWO-36: <ul style="list-style-type: none"> Advise operations staff to avoid driving roads in proximity to this feature at night between April 1 and June 30, and any rainy nights from spring to early autumn, wherever possible. Most access road traffic will be confined to daytime hours. Avoid access road use at night. Maintain wildlife crossing signs and limit speed of vehicles near crossings (30 km/hr). Conduct 3 years post-construction amphibian call surveys (frogs and toads) and egg mass or adult surveys (salamanders) to assess any potential changes in amphibian breeding populations or species distribution at feature AWO-36 by a qualified Biologist, including: <ul style="list-style-type: none"> Call surveys three times between April 1 and June 30, as per the Marsh Monitoring Protocol. Conduct surveys between one half-hour after sunset and 2:00 am and, to the extent possible, on nights that are clear, cloudy, damp, foggy, or have light rain and minimum night air temperatures of 5°C, 10°C and 14°C for each of the three respective survey periods. Complete a 3-minute listening survey at each station. Report the findings of post-construction monitoring to MNR on an annual basis for the first 3 years of operation. Contingency Measures: <ul style="list-style-type: none"> If significant declines or disappearance of species is detected, determine whether likely to have been caused by the Project. If so, corrective measures will be taken, to be determined through consultation with MNR. <p>Water Bodies</p> <ul style="list-style-type: none"> N/A

Table 2-1 Summary of Project Modifications

Label on Figure 2-1	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	New Mitigation Measures
D2	Removal of the southwest portion of Turbine 17 construction disturbance area	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – removal of infrastructure	N/A
D3	Relocation of collection line from private property to Grand Bend Line right-of-way, south and west of Turbine 53	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	Natural Heritage: <ul style="list-style-type: none"> Collection line is within 13 m of Significant Woodland Feature WOD-022, not previously described in the NHA. There are no potential effects on this feature associated with operation of the collection line. Collection line is within 120 m of new Generalized Candidate Significant Wildlife Habitat Feature (Plant Species of Conservation Concern Habitat, Common Nighthawk Habitat, Red-headed Woodpecker Habitat, and Woodland Raptor Nesting Habitat) in Natural Area 204, not previously described in the NHA. There are no potential effects on this feature associated with operation of the collection line. 	N/A
D4	Relocation of collection line from private property to South Road right-of-way, east of Turbine 55	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
E1	Relocation of collection line from private property to Mollard Line right-of-way, west of Turbine 56	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
E2	Removal of a portion of Turbine 56 construction disturbance area	Construction disturbance area modified to reduce or eliminate impacts to Conservation Authority regulation limit	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
E3	Addition of collection line construction disturbance area on private property, heading west to Turbine 60 from Mollard Line, and removal of collection line heading west to Turbine 58 from Mollard Line	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
E4	Addition of construction disturbance area for access road and collection line to Turbine 56 from Eagleson Line	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
F1	Removal of Turbine 46 and associated access road and collection line, including collection line in the Gordon Line right-of-way and collection line on private property to Turbine 77	Turbine and associated infrastructure removed	Natural Heritage: <ul style="list-style-type: none"> Waterfowl (Tundra Swan) Stopover and Staging Area (Terrestrial) Feature WSST-36 was changed to Generalized Candidate Significant Wildlife Habitat because it is more than 120 m away from a proposed turbine and is not overlapped by the Project Location. There are no potential effects on this feature associated with operation of the collection line. 	N/A
F2	Removal of a portion of construction disturbance area for access road and collection line to Turbine 77	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – removal of infrastructure	N/A
F3	Addition of collection line in Babylon Line right-of-way, between the access road to Turbine 77 and the access road to Turbine 49	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
F4	Addition of transmission line construction disturbance area on private property, west of Parr Line	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
F5	Removal of a portion of transmission line construction disturbance area on private property west of Ausable Line and relocation of transmission line from an underground to overhead crossing of the Ausable River	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	Natural Heritage: <ul style="list-style-type: none"> Reptile Hibernacula Feature RH-06 was changed to Generalized Candidate Significant Wildlife Habitat in Natural Area 609 because it is not overlapped by the Project Location. There are no potential effects on this feature associated with operation of the transmission line. The transmission line is spanning the Significant Wetland Feature WET-012. Potential effects from operation of the above ground transmission line include: <ul style="list-style-type: none"> Risk of soil or water contamination from oil, gas, etc. during maintenance of the transmission line in Significant Wetland. 	Natural Heritage: <ul style="list-style-type: none"> For construction of the transmission line above ground spanning the Significant Wetland Feature WET-012: <ul style="list-style-type: none"> Develop and implement an emergency spills plan outlining steps to contain any spills during maintenance activities to avoid contamination of Significant Wetland. Contingency Measures: <ul style="list-style-type: none"> Report the details of the spill to MOE, including a description of any assessment and remediation undertaken.
G1	Addition of transmission line construction disturbance area on private property, west of London Road	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
G2	Addition of transmission line construction disturbance area on private property, west of London Road	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
G3	Addition of transmission line construction disturbance area in the Crediton Road right-of-way	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
G4	Removal of a portion of transmission line construction disturbance area on private property, south of Crediton Road and east of McTaggart Line	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – removal of infrastructure	N/A
H1	Addition of transmission line construction disturbance area on private property, east of Hern Line	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	Natural Heritage: <ul style="list-style-type: none"> The transmission line is within 27 m of Significant Woodland Feature WOD-145. There are no potential effects on this feature associated with operation of the transmission line. 	N/A

Table 2-1 Summary of Project Modifications

Label on Figure 2-1	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	New Mitigation Measures
H2	Addition of transmission line construction disturbance area on private property, west of Sunshine Line	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
H3	Addition of transmission line construction disturbance area on private property, east of Sunshine Line	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
H4	Removal of a portion of transmission line construction disturbance area on private property, east of Sunshine Line	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
H5	Addition of transmission line construction disturbance area on private property, south of Dump Road and west of Sunshine Line,	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
H6	Addition of transmission line construction disturbance area on private property, south of Dump Road and west of Sunshine Line	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
H7	Addition of transmission line construction disturbance area on private property, on the south side of Dump Road, east of Plugtown Line	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
H8	Addition of transmission line construction disturbance area on private property, on the north side of Dump Road, west of Union Line and addition and removal of portions of the transmission line point of interconnect construction disturbance area	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage, cultural heritage, or water body features within 120 m	N/A
H9	Removal of a portion of transmission line construction disturbance area on private property, north of Crediton Road, and west of Hern Line	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources	None – removal of infrastructure	N/A
N/A	Use of a spare 170 mVA transformer to be stored within the existing footprint of the Jericho Wind Energy Centre substation	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	N/A	N/A

Lake Huron

Legend

- Transmission Line Study Area
- Wind Energy Centre Study Area
- Properties
- Layout Modification Locations
- Change Map Extent
- August 2013 - 120m Area of Investigation
- January 2013 - 120m Area of Investigation

Turbines and Permanent Meteorological Tower

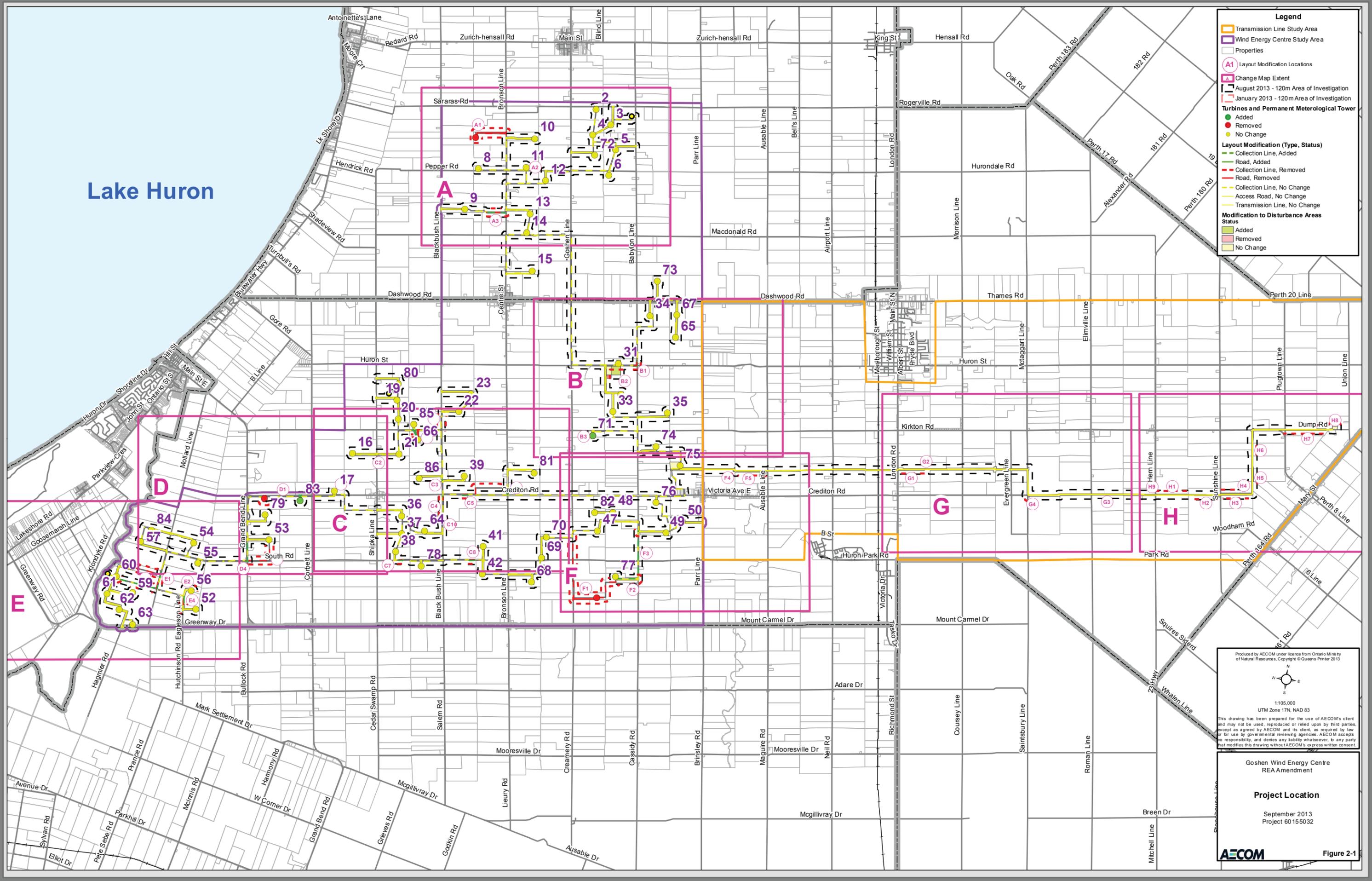
- Added
- Removed
- No Change

Layout Modification (Type, Status)

- Collection Line, Added
- Road, Added
- Collection Line, Removed
- Road, Removed
- Collection Line, No Change
- Access Road, No Change
- Transmission Line, No Change

Modification to Disturbance Areas Status

- Added
- Removed
- No Change



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1:105,000
UTM Zone 17N, NAD 83

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Goshen Wind Energy Centre
REA Amendment

Project Location

September 2013
Project 60155032

Figure 2-1

3. Edits to the Design and Operations Report

Table 3-1 documents the edits to the Design and Operations Report resulting from the modifications described in **Section 2**. The table includes the text from the original REA submission and edits to the text (underlined text represents additions and strikethrough text represents deletions). Updated figures are included in **Appendix B** of this Revision Report. An updated Site Plan, Noise Assessment Report, and Parcel Boundary Setback Reduction Analysis have been included in this Revision Report as **Appendix C**, **Appendix D**, and **Appendix E** respectively.

Table 3-1 Edits to the Design and Operations Report

Section / Page	Original Text	Revised Text (Underlined text represents additions and strikethrough text represents deletions)
Section 1 / page 1	Although NextEra is seeking a Renewable Energy Approval (REA) for up to 72 wind turbines, only 63 will be constructed for the Project.	Although NextEra is seeking a Renewable Energy Approval (REA) for up to 72 <u>70</u> wind turbines, only 63 will be constructed for the Project.
Section 2 / page 5	Up to 71 GE 1.6-100 Wind Turbine generator locations and pad mounted step-up transformers and one GE 1.56-100 Wind Turbine generator location and pad mounted step-up transformer (however, only 63 turbines will be constructed)	Up to 74 <u>69</u> GE 1.6-100 Wind Turbine generator locations and pad mounted step-up transformers and one GE 1.56-100 Wind Turbine generator location and pad mounted step-up transformer (however, only 63 turbines will be constructed)
Section 3.1 / page 10	Although NextEra is seeking an REA for up to 72 wind turbines, only 63 are proposed to be constructed for the Project.	Although NextEra is seeking an REA for up to 72 <u>70</u> wind turbines, only 63 are proposed to be constructed for the Project.
Section 6.1 / page 17	In 2011 and 2012, pedestrian surveys were conducted within the Project Study Area in support of the Stage 2 Archaeological Assessment, according to the 2011 <i>Standards and Guidelines for Consultant Archaeologists</i> issued by the Ontario Ministry of Tourism, Culture and Sport (MTCS) (Government of Ontario, 2011). A total of 62 archaeological sites were identified and 33 sites have been recommended for further Stage 3 archaeological assessment.	In 2011 and 2012, pedestrian surveys were conducted within the Project Study Area in support of the Stage 2 Archaeological Assessment, according to the 2011 <i>Standards and Guidelines for Consultant Archaeologists</i> issued by the Ontario Ministry of Tourism, Culture and Sport (MTCS) (Government of Ontario, 2011). A total of 62 archaeological sites were identified and 33 sites have been <u>were</u> recommended for further Stage 3 archaeological assessment. <u>Based on further Stage 2 Archeological Assessment in 2013, 2 additional sites were identified, of which no additional sites have been recommended for Stage 3 Archaeological Assessment.</u>
Section 6.1 / page 17	A Cultural Heritage Assessment (Golder, 2012) was also completed to identify built heritage and cultural heritage landscape resources related to the Euro-Canadian land use in the area dating prior to 1970. All work was carried out in accordance with the <i>Ontario Heritage Act</i> , the <i>Provincial Policy Statement</i> , and the <i>Environmental Assessment Act</i> . The report identified 135 structures (67 houses and 68 barns or barn complexes) as greater than 40 years old within the Project Study Area and as having general historical interest contributing to the character of the vernacular rural landscape. When applying the criteria set out in <i>Ontario Regulation 9/06</i> , 99 of these structures (46 houses and 53 barns) were determined to have cultural heritage value or interest. Following the evaluation of anticipated impacts, both direct and indirect, according to <i>InfoSheet #5</i> (Government of Ontario, 2006), no anticipated impacts were identified. As there are no anticipated impacts to the cultural heritage features, no further work is recommended.	A Cultural Heritage Assessment (Golder, 2012) was also completed to identify built heritage and cultural heritage landscape resources related to the Euro-Canadian land use in the area dating prior to 1970. All work was carried out in accordance with the <i>Ontario Heritage Act</i> , the <i>Provincial Policy Statement</i> , and the <i>Environmental Assessment Act</i> . The report and its addenda (December 2012 and September 2013) identified 135 <u>145</u> structures (67 <u>73</u> houses and 68 <u>72</u> barns or barn complexes) as greater than 40 years old within the Project Study Area and as having general historical interest contributing to the character of the vernacular rural landscape. When applying the criteria set out in <i>Ontario Regulation 9/06</i> , 99 <u>109</u> of these structures (46 <u>52</u> houses and 53 <u>57</u> barns) were determined to have cultural heritage value or interest. Following the evaluation of anticipated impacts, both direct and indirect, according to <i>InfoSheet #5</i> (Government of Ontario, 2006), no anticipated impacts were identified. As there are no anticipated impacts to the cultural heritage features, no further work is recommended.
Section 6.2 / page 18	The potential effects, mitigation measures, residual effects and monitoring commitments regarding the natural heritage features (including Significant Wetlands, woodlands, valleylands, and wildlife habitat) were identified and evaluated in the Natural Heritage Assessment Report and Environmental Effects Monitoring Plan (AECOM, 2013) prepared based on the <i>Natural Heritage Assessment Guide for Renewable Energy Projects</i> (Government of Ontario, 2010) and submitted to the Ontario Ministry of Natural Resources (MNR) for review and sign-off.	The potential effects, mitigation measures, residual effects and monitoring commitments regarding the natural heritage features (including Significant Wetlands, woodlands, valleylands, and wildlife habitat) were identified and evaluated in the Natural Heritage Assessment and <u>Environmental Impact Study (NHA and EIS) Report and Environmental Effects Monitoring Plan (AECOM, 2013) prepared based on the <i>Natural Heritage Assessment Guide for Renewable Energy Projects</i> (Government of Ontario, 2010) and submitted to the Ontario Ministry of Natural Resources (MNR) for review and sign-off. AECOM prepared an NHA and EIS Addendum in respect to modifications to the Project Location proposed after the original submission of the NHA and EIS to MNR. MNR issued confirmation and re-confirmation letters on January 15 and 16, 2013, respectively, stating that the NHA and EIS Report and the NHA and EIS Report Addendum met all requirements in accordance with the REA regulation for this Project.</u> <u>Two Addenda to the NHA and EIS Report were subsequently prepared to address modifications to the Project Location proposed after MNR confirmation and re-confirmation of the NHA and EIS and were submitted to MNR for review on September 16, 2013. The MNR provided a confirmation letter on October 22, 2013 stating that the Second NHA Addendum met all requirements in accordance with the REA regulation for this Project. Based on further modifications to the Project Location, AECOM subsequently submitted to the MNR the NHA and EIS Third Addendum on November 15, 2013 for review. The MNR provided a confirmation letter on November 15, 2013, stating that the Third NHA Addendum met all requirements in accordance with the REA regulation for this Project.</u>
Table 6-1 / page 18	14 wetland units or wetland complexes were treated as significant and included in the EIS.	14 <u>13</u> wetland units or wetland complexes were treated as significant and included in the EIS.
Table 6-1 / page 18	65 woodlands were determined to be significant or treated as significant and therefore included in the EIS.	65 <u>66</u> woodlands were determined to be significant or treated as significant and therefore included in the EIS.
Table 6-1 / page 18	4 amphibian woodland breeding habitats	4 <u>5</u> amphibian woodland breeding habitats
Table 6-1 / page 18	<ul style="list-style-type: none"> • 2 Waterfowl stopover and staging areas (terrestrial); • 11 Bat maternity colonies; • 2 turtle wintering areas; • 8 Reptile hibernacula; • One deer winter congregation area; • One deer movement corridor; and, • 4 amphibian woodland breeding habitats. 	<ul style="list-style-type: none"> • 2 <u>Waterfowl stopover and staging areas (terrestrial);</u> • 11 Bat maternity colonies; • 2 <u>turtle wintering areas;</u> • 8 <u>7</u> Reptile hibernacula; • One deer winter congregation area; • One deer movement corridor; and, • 4 <u>3</u> amphibian woodland breeding habitats.
Table 6-1 / page 18	<ul style="list-style-type: none"> • Waterfowl nesting areas; • Reptile hibernacula; • Bat maternity colonies; • Amphibian woodland breeding habitat; • Amphibian wetland breeding habitat; • Habitats of plant species of conservation concern (numerous); • Habitat of bird species of conservation concern (numerous); • Habitat of insect species of conservation concern (numerous); • Mature forest stands; • Rare vegetation communities; • Turtle nesting area; • Turtle wintering areas; • Woodland raptor nesting habitat; • Woodland area-sensitive bird breeding habitat; • Terrestrial crayfish habitat; and, • Seeps and springs. 	<ul style="list-style-type: none"> • <u>Waterfowl stopover and staging area (terrestrial);</u> • Waterfowl nesting areas; • Reptile hibernacula; • Bat maternity colonies; • Amphibian woodland breeding habitat; • Amphibian wetland breeding habitat; • Habitats of plant species of conservation concern (numerous); • Habitat of bird species of conservation concern (numerous); • Habitat of insect species of conservation concern (numerous); • Mature forest stands; • Rare vegetation communities; • Turtle nesting area; • Turtle wintering areas; • Woodland raptor nesting habitat; • Woodland area-sensitive bird breeding habitat; • Terrestrial crayfish habitat; and, • Seeps and springs.

Table 3-1 Edits to the Design and Operations Report

Section / Page	Original Text	Revised Text (Underlined text represents additions and strikethrough text represents deletions)
Table 6-2 / page 20	<p>Potential Effect Avoidance by Tundra Swans of stopover and staging habitats during migration due to proximity of turbines.</p> <p>Performance Objective Minimize disturbance or disruption to Tundra Swan stopover and staging habitats.</p> <p>Mitigation Strategy Implement contingency mitigation measures if disturbance effects are detected through post-construction monitoring (contingency measures).</p> <p>Residual Effects Significance of residual effects will be determined based on the results of post-construction monitoring.</p> <p>Monitoring Plan and Contingency Measures</p> <ul style="list-style-type: none"> Conduct 3 years of post-construction Tundra Swan monitoring at Features WSST-15 and WSST-36 (if determined to be significant) by a qualified Biologist, including: <ul style="list-style-type: none"> Conduct surveys on three occasions approximately one week apart during the peak migratory period, which typically occurs in March but can range from mid-February to mid-April. One survey station will be placed per 0.5 km of candidate Tundra Swan stopover and staging habitat and be monitored for approximately 15 min. All observed waterfowl will be recorded along with their approximate location, age and behavior. The findings of the Tundra Swan monitoring programs will be reported back to MNR on an annual basis for the first 3 years of operation. Contingency Measures: <ul style="list-style-type: none"> If significant declines or disappearance of species is detected, determine whether this is likely to have been caused by the Project. If so, implement corrective measures that are developed through consultation with MNR. 	<p>Potential Effect Avoidance by Tundra Swans of stopover and staging habitats during migration due to proximity of turbines.</p> <p>Performance Objective Minimize disturbance or disruption to Tundra Swan stopover and staging habitats.</p> <p>Mitigation Strategy Implement contingency mitigation measures if disturbance effects are detected through post-construction monitoring (contingency measures).</p> <p>Residual Effects Significance of residual effects will be determined based on the results of post-construction monitoring.</p> <p>Monitoring Plan and Contingency Measures</p> <ul style="list-style-type: none"> Conduct 3 years of post-construction Tundra Swan monitoring at Features WSST-15 and WSST-36 (if determined to be significant) by a qualified Biologist, including: <ul style="list-style-type: none"> Conduct surveys on three occasions approximately one week apart during the peak migratory period, which typically occurs in March but can range from mid-February to mid-April. One survey station will be placed per 0.5 km of candidate Tundra Swan stopover and staging habitat and be monitored for approximately 15 min. All observed waterfowl will be recorded along with their approximate location, age and behavior. The findings of the Tundra Swan monitoring programs will be reported back to MNR on an annual basis for the first 3 years of operation. Contingency Measures: <ul style="list-style-type: none"> If significant declines or disappearance of species is detected, determine whether this is likely to have been caused by the Project. If so, implement corrective measures that are developed through consultation with MNR.
Table 6-2 / page 21	<p>Potential Effect Disturbance to Tundra Swan stopover and staging habitats due to vehicular traffic on access roads.</p> <p>Performance Objective Minimize disturbance or disruption to Tundra Swan stopover and staging habitat.</p> <p>Mitigation Strategy</p> <ul style="list-style-type: none"> Schedule regular (non-critical) maintenance activities to occur outside of the important period of staging Tundra Swan (March 1 to April 15), to the extent possible. Maintain wildlife crossing signs and limit speed of vehicles (30 km/hr) near stopover and staging areas. <p>Residual Effects</p> <ul style="list-style-type: none"> Disturbance effects reduced through mitigation measures. Operational effects minor (i.e., no or limited disturbance expected). <p>Monitoring Plan and Contingency Measures</p> <ul style="list-style-type: none"> No monitoring or contingency measures required. 	<p>Potential Effect Disturbance to Tundra Swan stopover and staging habitats due to vehicular traffic on access roads.</p> <p>Performance Objective Minimize disturbance or disruption to Tundra Swan stopover and staging habitat.</p> <p>Mitigation Strategy</p> <ul style="list-style-type: none"> Schedule regular (non-critical) maintenance activities to occur outside of the important period of staging Tundra Swan (March 1 to April 15), to the extent possible. Maintain wildlife crossing signs and limit speed of vehicles (30 km/hr) near stopover and staging areas. <p>Residual Effects</p> <ul style="list-style-type: none"> Disturbance effects reduced through mitigation measures. Operational effects minor (i.e., no or limited disturbance expected). <p>Monitoring Plan and Contingency Measures</p> <ul style="list-style-type: none"> No monitoring or contingency measures required.
Table 6-2 / page 23	<p>Potential Effect Risk of road mortality to turtles moving between wintering ponds and other areas.</p> <p>Performance Objective Minimize turtle mortality along access roads.</p> <p>Mitigation Strategy</p> <ul style="list-style-type: none"> Maintain wildlife crossing signs and limit speed of vehicles (30 km/hr) near turtle wintering areas. <p>Residual Effects</p> <ul style="list-style-type: none"> Risk of turtle road mortality reduced through mitigation measures. Low likelihood of occurring and limited magnitude due to limited volume of maintenance vehicles. <p>Monitoring Plan and Contingency Measures</p> <ul style="list-style-type: none"> No monitoring or contingency measures required. 	<p>Potential Effect Risk of road mortality to turtles moving between wintering ponds and other areas.</p> <p>Performance Objective Minimize turtle mortality along access roads.</p> <p>Mitigation Strategy</p> <ul style="list-style-type: none"> Maintain wildlife crossing signs and limit speed of vehicles (30 km/hr) near turtle wintering areas. <p>Residual Effects</p> <ul style="list-style-type: none"> Risk of turtle road mortality reduced through mitigation measures. Low likelihood of occurring and limited magnitude due to limited volume of maintenance vehicles. <p>Monitoring Plan and Contingency Measures</p> <ul style="list-style-type: none"> No monitoring or contingency measures required.
Table 6-2 / page 24	<p>Potential Effect Risk of road mortality to amphibians moving between breeding pools and home range.</p> <p>Monitoring Plan and Contingency Measures Conduct 3 years post-construction amphibian call surveys (frogs and toads) and egg mass or adult surveys (salamanders) to assess any potential changes in amphibian breeding populations or species distribution (if Features deemed to be significant) at features AWO-02, AWO-25, AWO-27 and AWO-30 by a qualified Biologist</p>	<p>Potential Effect Risk of road mortality to amphibians moving between breeding pools and home range.</p> <p>Monitoring Plan and Contingency Measures Conduct 3 years post-construction amphibian call surveys (frogs and toads) and egg mass or adult surveys (salamanders) to assess any potential changes in amphibian breeding populations or species distribution (if Features deemed to be significant) at features AWO-02, AWO-25, AWO-27, and AWO-30 and <u>AWO-36</u> by a qualified Biologist</p>

Table 3-1 Edits to the Design and Operations Report

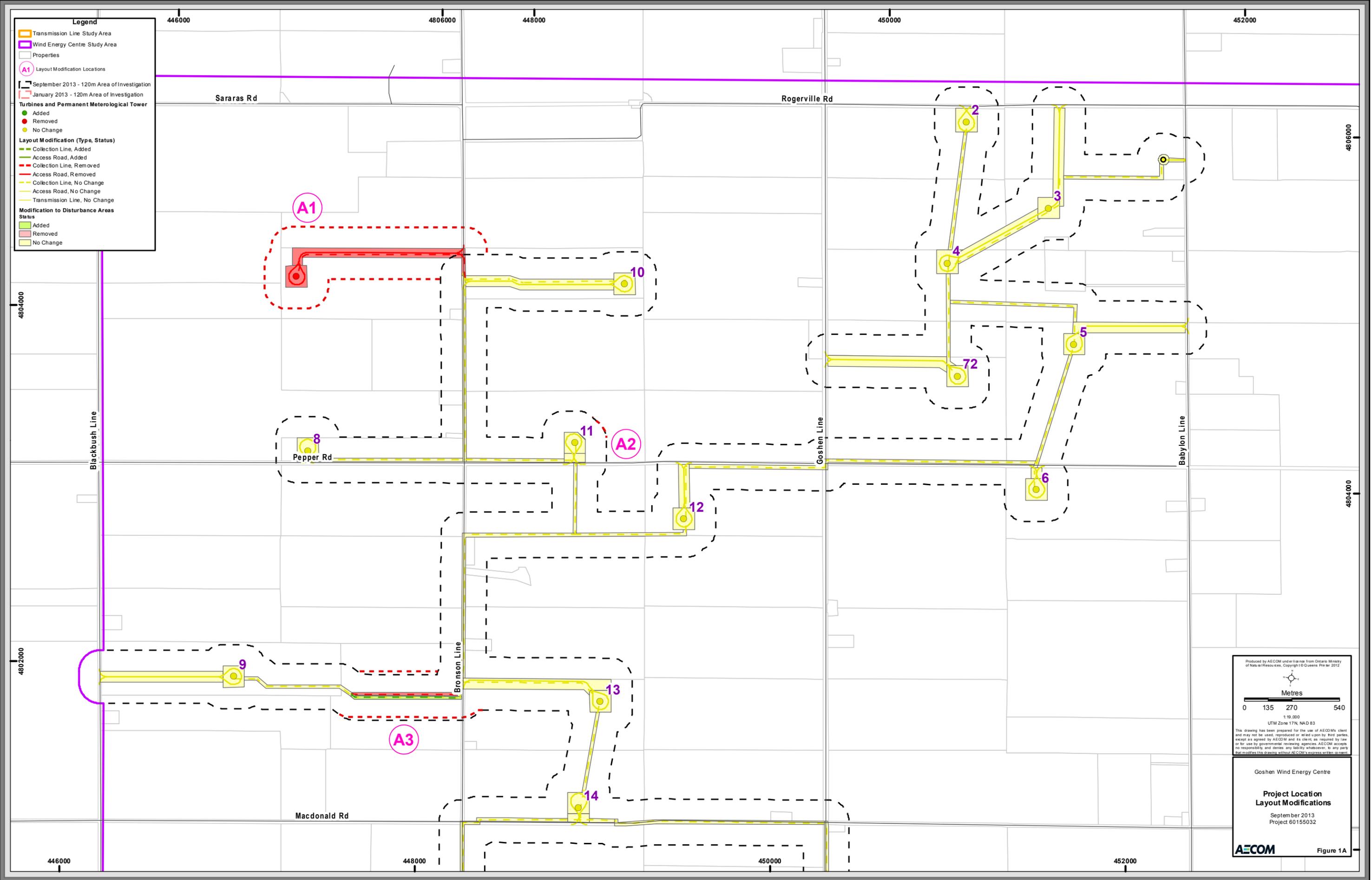
Section / Page	Original Text	Revised Text (Underlined text represents additions and struckthrough text represents deletions)																																																																																
Table 6-2 / page 30		<p>Potential Effects Risk of soil or water contamination from oil, gas, etc. during maintenance of the transmission line in Significant Wetland WET-012.</p> <p>Performance Objective</p> <ul style="list-style-type: none"> No off-site contamination of soil and no contamination of groundwater or surface water. <p>Mitigation Strategy</p> <ul style="list-style-type: none"> Develop and implement an emergency spills plan outlining steps to contain any spills during maintenance activities to avoid contamination of Significant Wetland. <p>Residual Effects</p> <ul style="list-style-type: none"> Residual effects considered negligible. <p>Monitoring Plan and Contingency Measures</p> <ul style="list-style-type: none"> No monitoring required. Contingency Measures: Report the details of the spill to MOE, including a description of any assessment and remediation undertaken. 																																																																																
Section 6.3.1 / page 31	<p>Following the Records Review and Site Investigation, 83 water bodies were identified.</p> <p>Based on a sensitivity ranking conducted by AECOM, 1 water body was classified as high sensitivity (<i>i.e.</i>, not very resilient to environmental change); 45 water bodies were moderate; and 37 water bodies were low.</p>	<p>Following the Records Review and Site Investigation, 83 <u>82</u> water bodies were identified.</p> <p>Based on a sensitivity ranking conducted by AECOM, 1 water body was classified as high sensitivity (<i>i.e.</i>, not very resilient to environmental change); 45 water bodies were moderate; and 37 <u>36</u> water bodies were low.</p>																																																																																
Section 6.6.1.1 / page 35	Damage to crops or trees due to turbine malfunction or failure associated with 16 turbines that are located within 80 m of neighbouring property lines	Damage to crops or trees due to turbine malfunction or failure associated with 16 <u>15</u> turbines that are located within 80 m of neighbouring property lines																																																																																
Table 6-6 / page 36	Damage to crops or trees due to turbine malfunction or failure associated with 16 turbines located within 80 m of neighbouring property lines	Damage to crops or trees due to turbine malfunction or failure associated with 16 <u>15</u> turbines located within 80 m of neighbouring property lines																																																																																
Table 6-7 / page 36	<table border="1"> <thead> <tr> <th>Owner</th> <th>Area (ha)</th> <th>Licence Class</th> <th>Status</th> <th>Distance to Closest Project Infrastructure</th> </tr> </thead> <tbody> <tr> <td>McCann Construction Inc.</td> <td>40.47</td> <td>Class A > 20000 tonnes</td> <td>Active</td> <td>330 m</td> </tr> <tr> <td>Prout Farms</td> <td>90.60</td> <td>Class A > 20000 tonnes</td> <td>Active</td> <td>1.2 km</td> </tr> <tr> <td>Jennison Construction Ltd.</td> <td>11.24</td> <td>Class A > 20000 tonnes</td> <td>Surrendered</td> <td>2.2 km</td> </tr> <tr> <td>Scott, Alan E.</td> <td>47.50</td> <td>Class A > 20000 tonnes</td> <td>Surrendered</td> <td>370 m</td> </tr> <tr> <td>McCann Redi-Mix Inc.</td> <td>8.78</td> <td>Class A > 20000 tonnes</td> <td>Active</td> <td>7 km</td> </tr> <tr> <td>The Municipality of South Huron</td> <td>16.13</td> <td>Class A > 20000 tonnes</td> <td>Surrendered</td> <td>1 km</td> </tr> <tr> <td>Taylor, Jeffrey</td> <td>23.76</td> <td>Class A > 20000 tonnes</td> <td>Active</td> <td>1.2 km</td> </tr> </tbody> </table>	Owner	Area (ha)	Licence Class	Status	Distance to Closest Project Infrastructure	McCann Construction Inc.	40.47	Class A > 20000 tonnes	Active	330 m	Prout Farms	90.60	Class A > 20000 tonnes	Active	1.2 km	Jennison Construction Ltd.	11.24	Class A > 20000 tonnes	Surrendered	2.2 km	Scott, Alan E.	47.50	Class A > 20000 tonnes	Surrendered	370 m	McCann Redi-Mix Inc.	8.78	Class A > 20000 tonnes	Active	7 km	The Municipality of South Huron	16.13	Class A > 20000 tonnes	Surrendered	1 km	Taylor, Jeffrey	23.76	Class A > 20000 tonnes	Active	1.2 km	<table border="1"> <thead> <tr> <th>Owner</th> <th>Area (ha)</th> <th>Licence Class</th> <th>Status</th> <th>Distance to Closest Project Infrastructure</th> </tr> </thead> <tbody> <tr> <td>McCann Construction Inc.</td> <td>40.47</td> <td>Class A > 20000 tonnes</td> <td>Active</td> <td>330 <u>305</u> m</td> </tr> <tr> <td>Prout Farms</td> <td>90.60</td> <td>Class A > 20000 tonnes</td> <td>Active</td> <td>1.2 km</td> </tr> <tr> <td>Jennison Construction Ltd.</td> <td>11.24</td> <td>Class A > 20000 tonnes</td> <td>Surrendered</td> <td>2.2 km</td> </tr> <tr> <td>Scott, Alan E.</td> <td>47.50</td> <td>Class A > 20000 tonnes</td> <td>Surrendered</td> <td>370 m</td> </tr> <tr> <td>McCann Redi-Mix Inc.</td> <td>8.78</td> <td>Class A > 20000 tonnes</td> <td>Active</td> <td>7 <u>0.55</u> km</td> </tr> <tr> <td>The Municipality of South Huron</td> <td>16.13</td> <td>Class A > 20000 tonnes</td> <td>Surrendered</td> <td>1 km</td> </tr> <tr> <td>Taylor, Jeffrey</td> <td>23.76</td> <td>Class A > 20000 tonnes</td> <td>Active</td> <td>1.2 km</td> </tr> </tbody> </table>	Owner	Area (ha)	Licence Class	Status	Distance to Closest Project Infrastructure	McCann Construction Inc.	40.47	Class A > 20000 tonnes	Active	330 <u>305</u> m	Prout Farms	90.60	Class A > 20000 tonnes	Active	1.2 km	Jennison Construction Ltd.	11.24	Class A > 20000 tonnes	Surrendered	2.2 km	Scott, Alan E.	47.50	Class A > 20000 tonnes	Surrendered	370 m	McCann Redi-Mix Inc.	8.78	Class A > 20000 tonnes	Active	7 <u>0.55</u> km	The Municipality of South Huron	16.13	Class A > 20000 tonnes	Surrendered	1 km	Taylor, Jeffrey	23.76	Class A > 20000 tonnes	Active	1.2 km
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Section 6.7.2 / page 38	The remaining pit/quarry of the three identified is located approximately 530 m north of the access road between Turbines 7 and 10, close to the northern boundary of the Wind Energy Centre Study Area.	The remaining pit/quarry of the three identified is located approximately 530 m north of the access road between <u>for</u> Turbines 7 <u>and</u> 10, close to the northern boundary of the Wind Energy Centre Study Area.																																																																																

4. Summary and Conclusions

The Project modifications described in this REA Revision Report do not change the overall conclusion of the Design and Operations Report which states that “this Project can be operated without any significant adverse residual effects. Post-construction monitoring related to effects on wildlife, including birds and bats, will be undertaken to confirm this conclusion”.

Appendix A

Project Modifications



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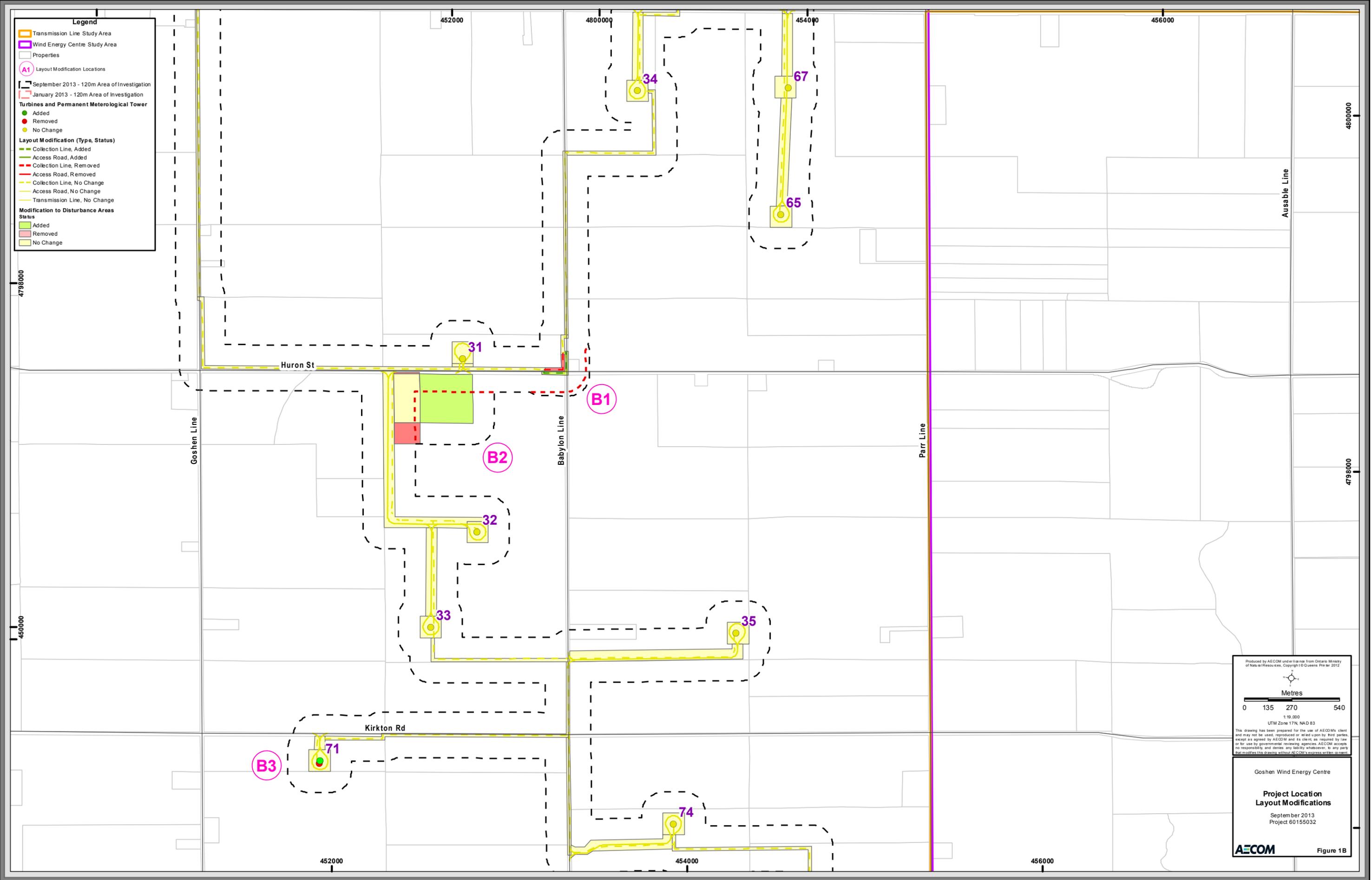
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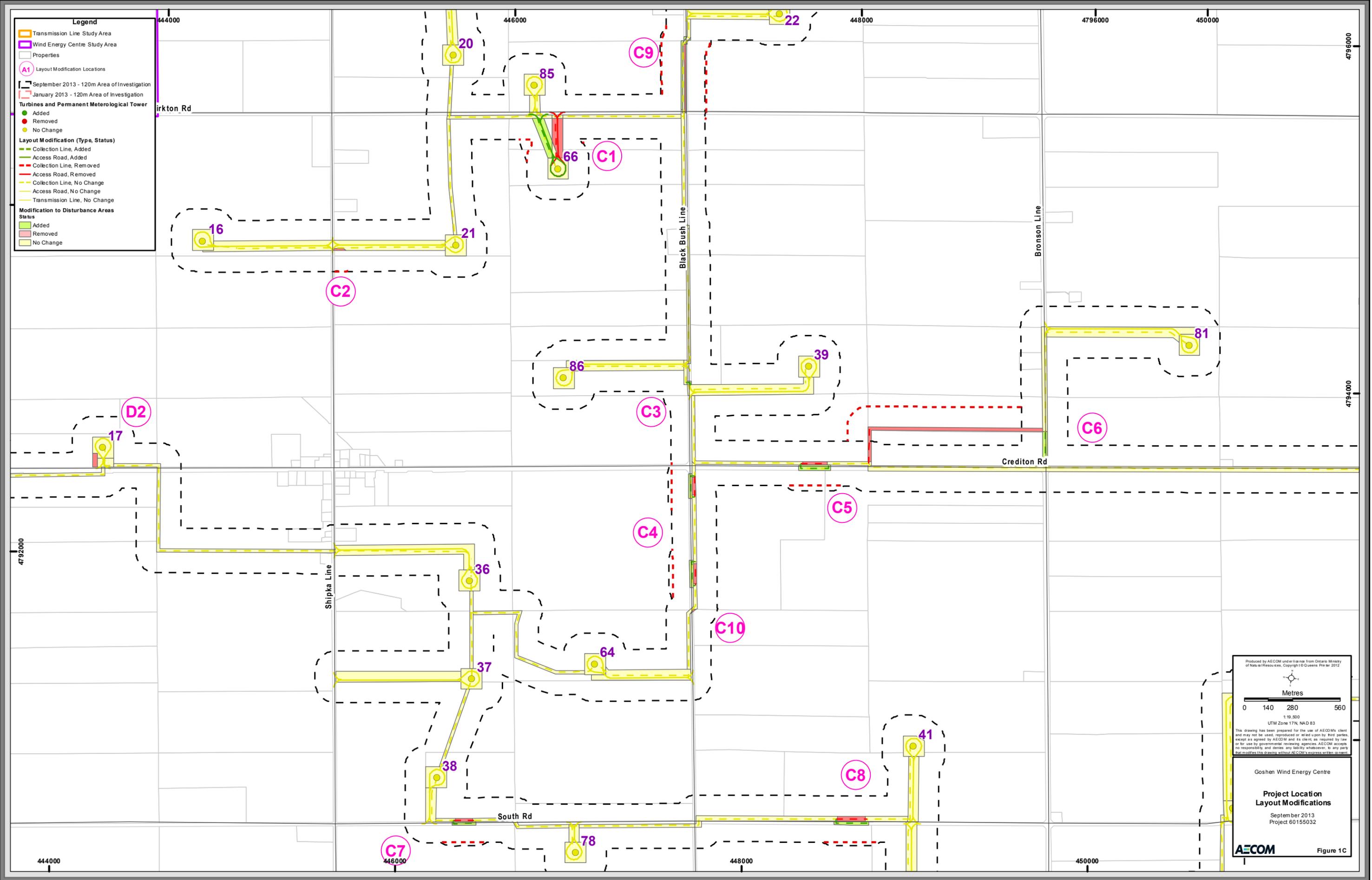
Goshen Wind Energy Centre

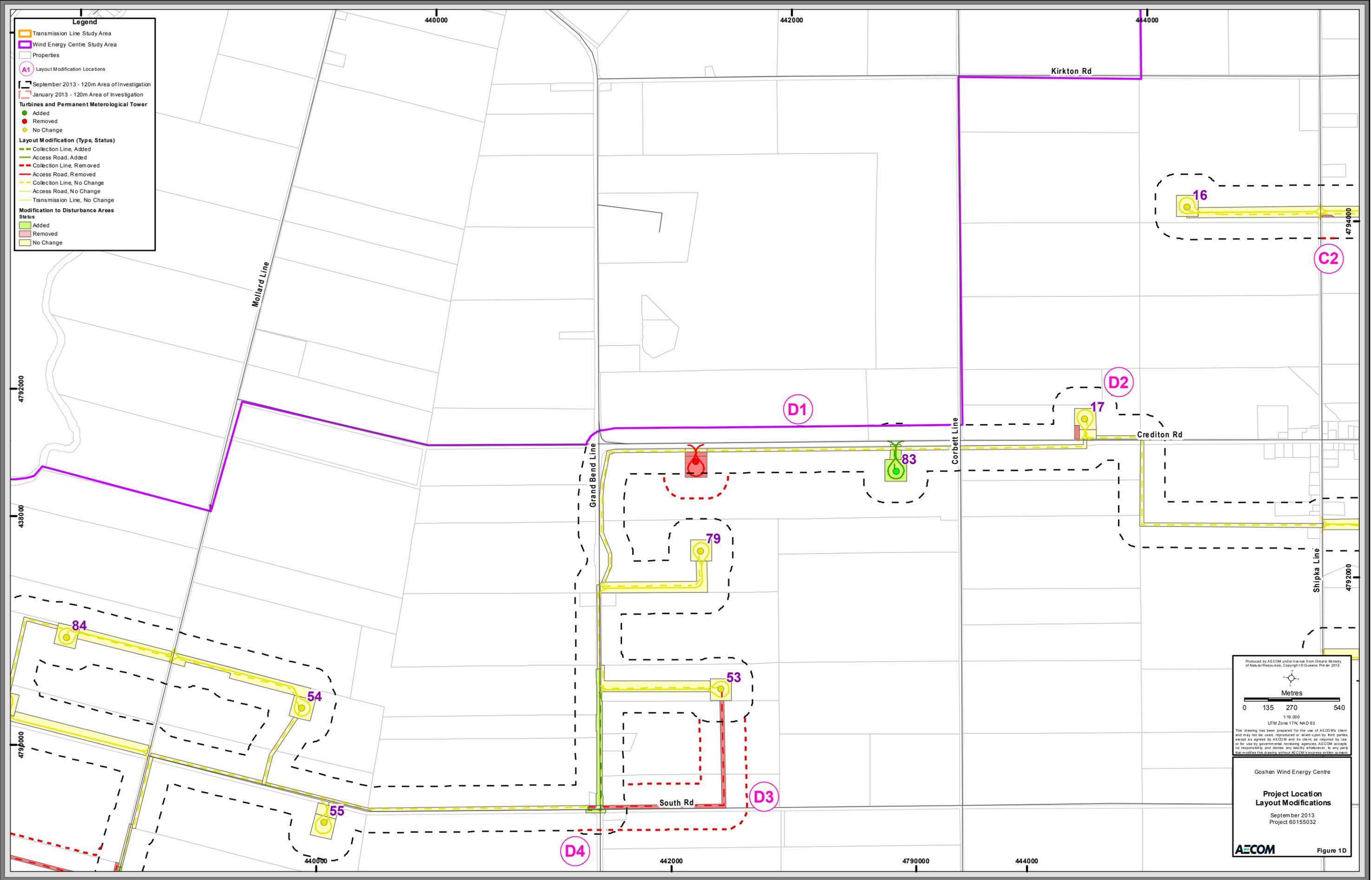
**Project Location
Layout Modifications**

September 2013
Project 60155032

AECOM Figure 1A







Legend

- Transmission Line Study Area
- Wind Energy Centre Study Area
- Properties
- A1 Layout Modification Locations
- September 2013 - 120m Area of Investigation
- January 2013 - 120m Area of Investigation

Turbines and Permanent Meteorological Tower

- Added
- Removed
- No Change

Layout Modification (Type, Status)

- Collection Line, Added
- Access Road, Added
- Collection Line, Removed
- Access Road, Removed
- Collection Line, No Change
- Access Road, No Change
- Transmission Line, No Change

Modification to Disturbance Areas Status

- Added
- Removed
- No Change

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UTM Zone 17N, NAD 83

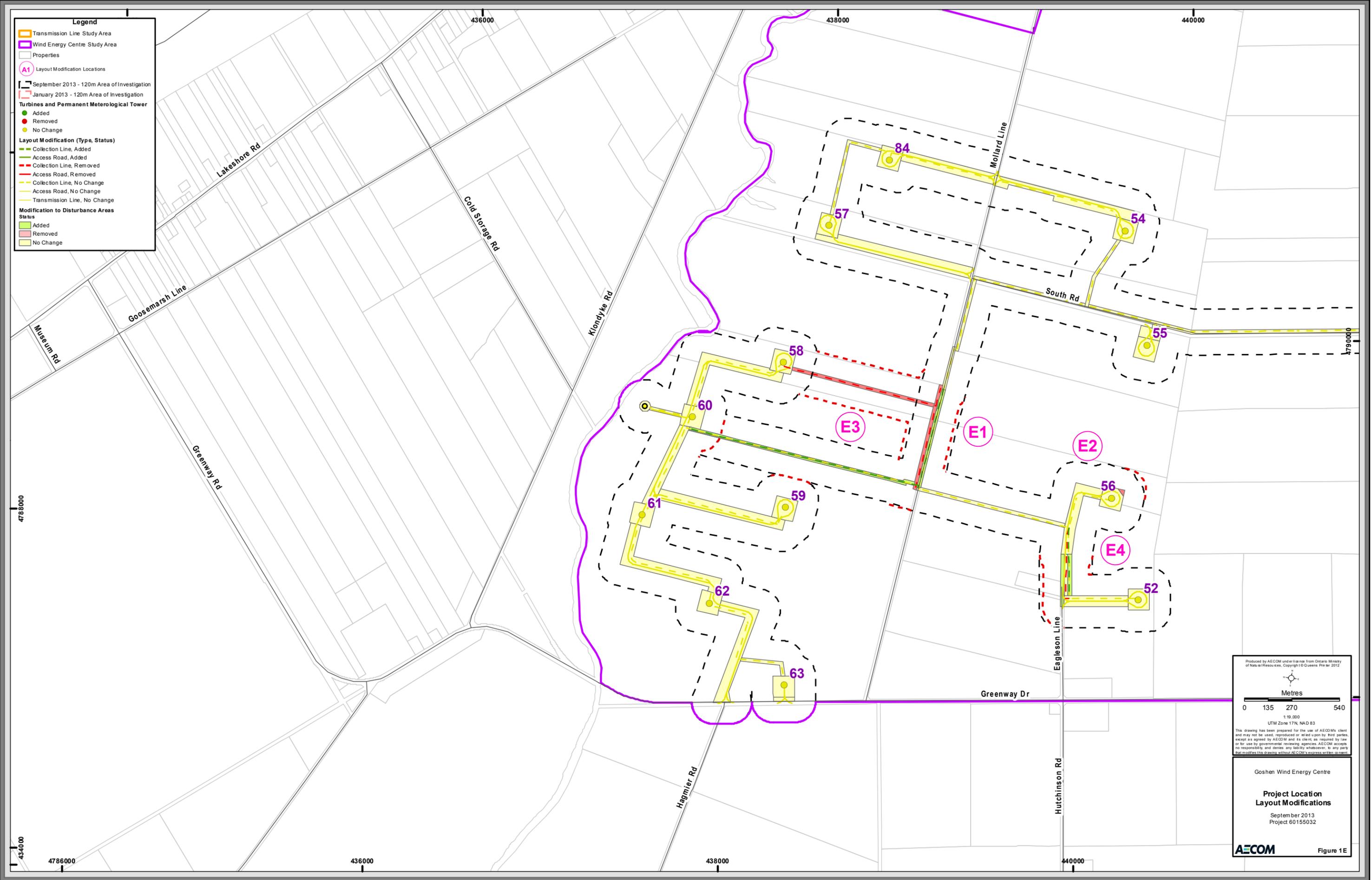
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Goshen Wind Energy Centre

**Project Location
Layout Modifications**

September 2013
Project 60155032

AECOM Figure 1D



Legend

- Transmission Line Study Area
- Wind Energy Centre Study Area
- Properties
- A1 Layout Modification Locations
- September 2013 - 120m Area of Investigation
- January 2013 - 120m Area of Investigation
- Turbines and Permanent Meteorological Tower**
- Added
- Removed
- No Change
- Layout Modification (Type, Status)**
- Collection Line, Added
- Access Road, Added
- Collection Line, Removed
- Access Road, Removed
- Collection Line, No Change
- Access Road, No Change
- Transmission Line, No Change
- Modification to Disturbance Areas Status**
- Added
- Removed
- No Change

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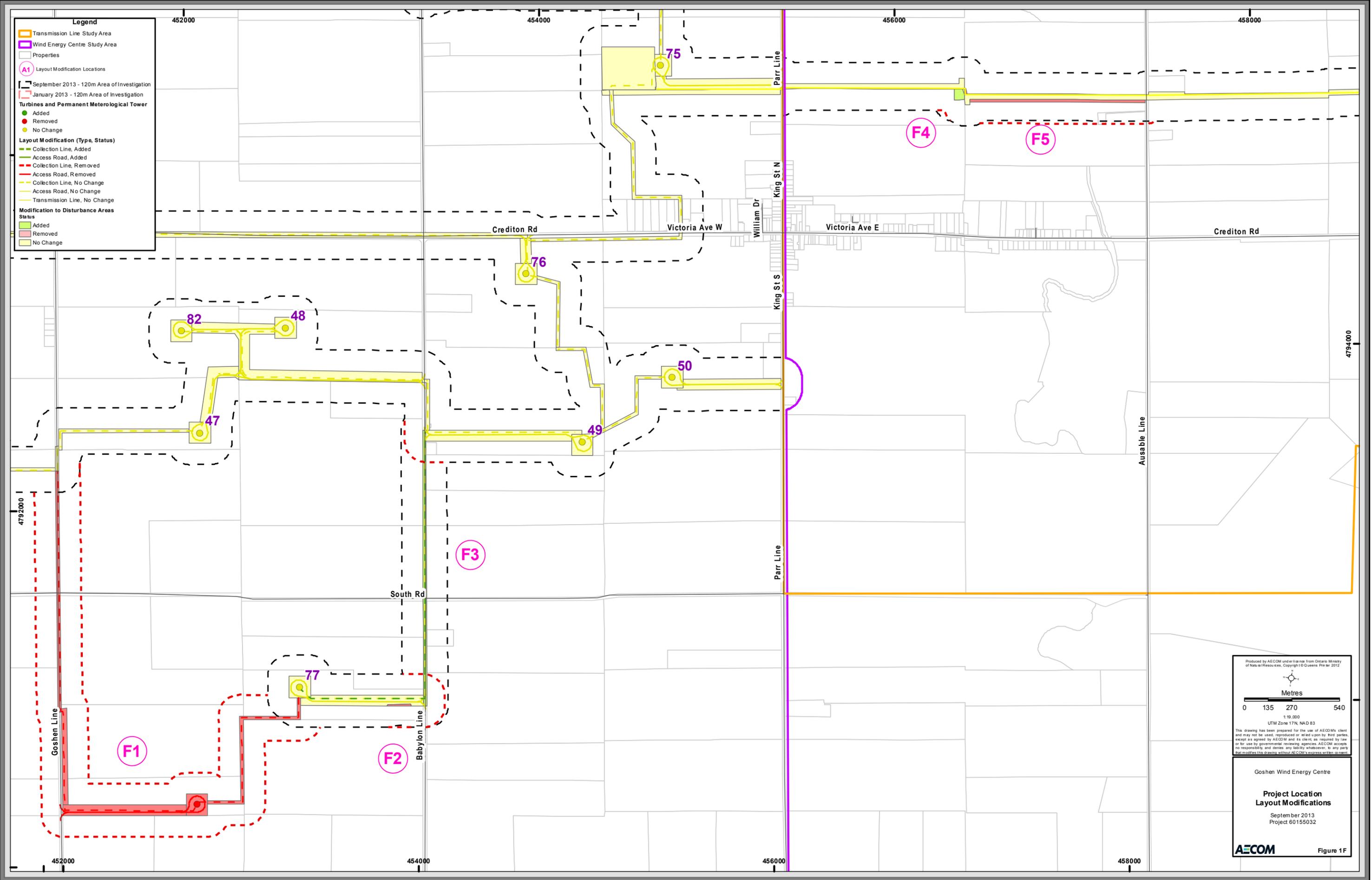
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Goshen Wind Energy Centre

**Project Location
Layout Modifications**

September 2013
Project 60155032

AECOM Figure 1E



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UTM Zone 17N, NAD 83

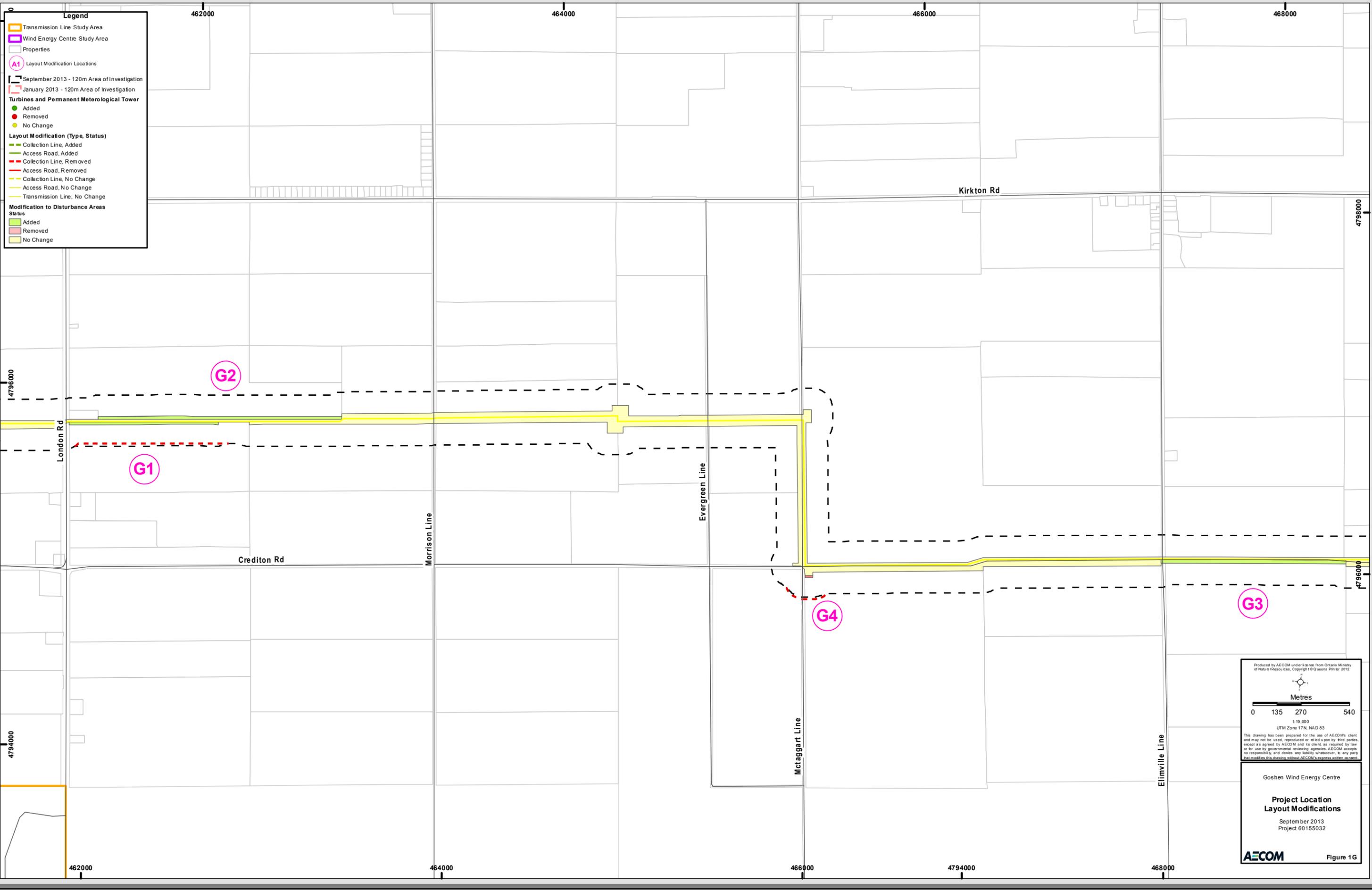
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Goshen Wind Energy Centre

**Project Location
Layout Modifications**

September 2013
Project 60155032

AECOM Figure 1F



Legend

- Transmission Line Study Area
- Wind Energy Centre Study Area
- Properties
- A1 Layout Modification Locations
- September 2013 - 120m Area of Investigation
- January 2013 - 120m Area of Investigation

Turbines and Permanent Meteorological Tower

- Added
- Removed
- No Change

Layout Modification (Type, Status)

- Collection Line, Added
- Access Road, Added
- Collection Line, Removed
- Access Road, Removed
- Collection Line, No Change
- Access Road, No Change
- Transmission Line, No Change

Modification to Disturbance Areas Status

- Added
- Removed
- No Change

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Metres

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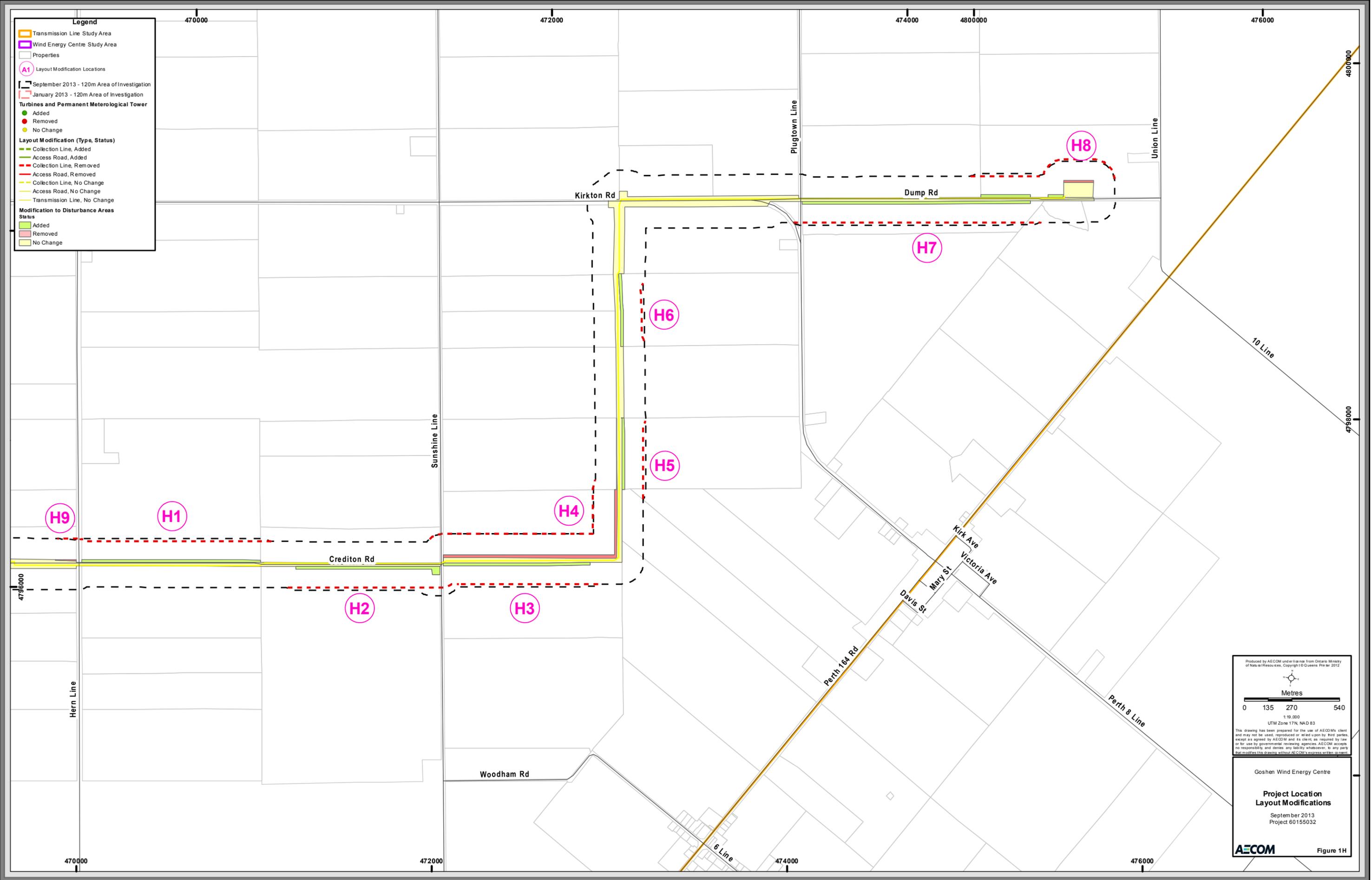
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Goshen Wind Energy Centre

**Project Location
Layout Modifications**

September 2013
Project 60155032

AECOM Figure 1G



Legend

- Transmission Line Study Area
- Wind Energy Centre Study Area
- Properties
- A1 Layout Modification Locations
- September 2013 - 120m Area of Investigation
- January 2013 - 120m Area of Investigation

Turbines and Permanent Meteorological Tower

- Added
- Removed
- No Change

Layout Modification (Type, Status)

- Collection Line, Added
- Collection Line, Removed
- Access Road, Added
- Access Road, Removed
- Collection Line, No Change
- Access Road, No Change
- Transmission Line, No Change

Modification to Disturbance Areas Status

- Added
- Removed
- No Change

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UTM Zone 17N, NAD 83

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Goshen Wind Energy Centre

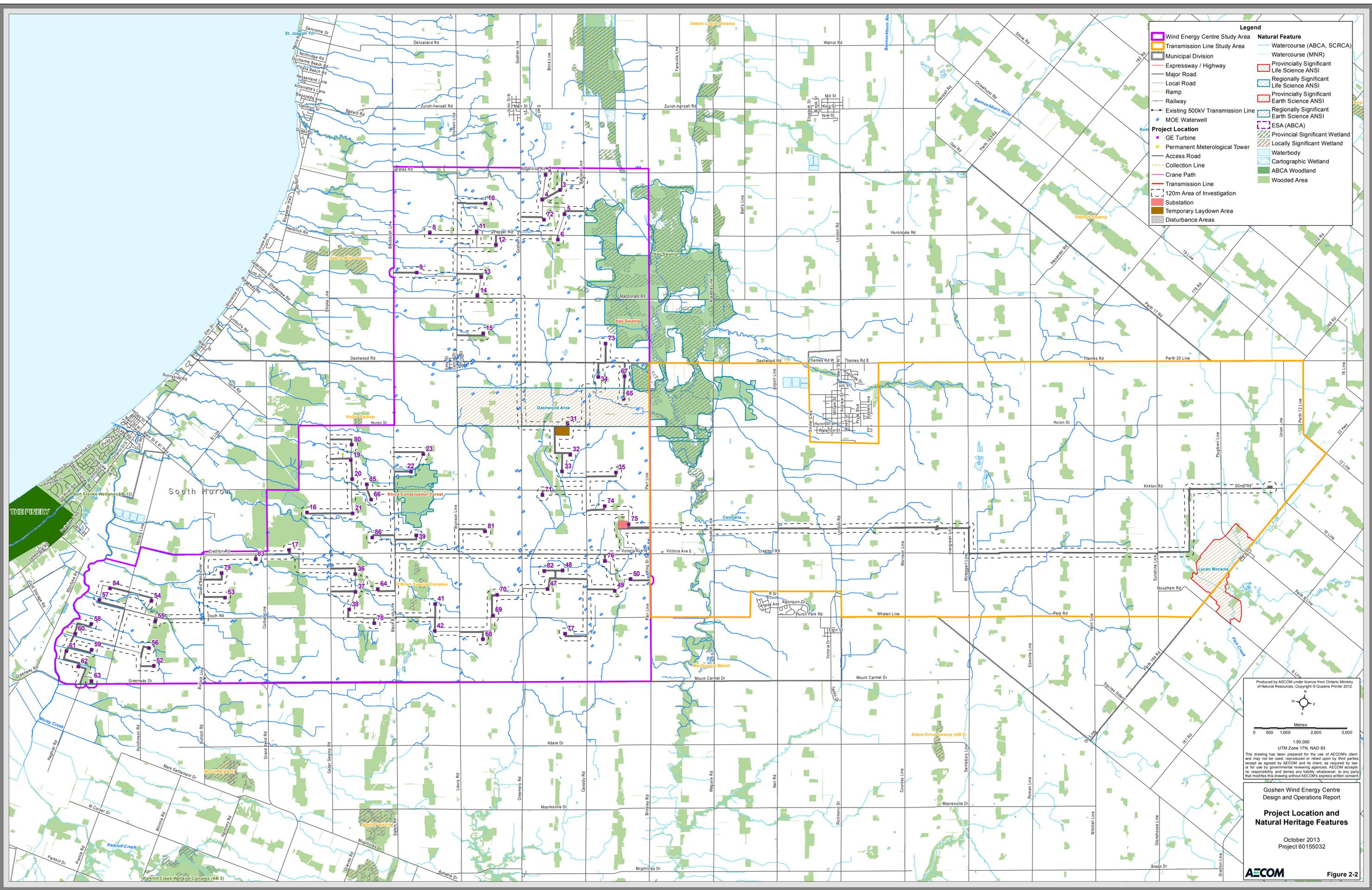
**Project Location
Layout Modifications**

September 2013
Project 60155032

AECOM Figure 1H

Appendix B

Revised Figures for the Design
and Operations Report



Legend

Wind Energy Centre Study Area	Natural Feature
Transmission Line Study Area	Watercourse (ABCA, SCRCA)
Municipal Division	Watercourse (MNR)
Expressway / Highway	Provincially Significant Life Science ANSI
Major Road	Regionally Significant Life Science ANSI
Local Road	Provincially Significant Earth Science ANSI
Ramp	Regionally Significant Earth Science ANSI
Railway	ESA (ABCA)
Existing 500kV Transmission Line	Provincial Significant Wetland
MOE Waterwell	Locally Significant Wetland
GE Turbine	Waterbody
Permanent Meteorological Tower	Cartographic Wetland
Access Road	ABCA Woodland
Collection Line	Wooded Area
Crane Path	
Transmission Line	
Substation	
Temporary Laydown Area	
Disturbance Areas	

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UTM Zone 17N, NAD 83

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Goshen Wind Energy Centre
Design and Operations Report

**Project Location and
Natural Heritage Features**

October 2013
Project 60155032

AECOM

Figure 2-2