

Varna Wind, Inc.

Amendment to the Construction Plan Report – Bluewater Wind Energy Centre

Prepared by:

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Project Number:

60301207

Date:

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Glossary of Terms

- EIS Environmental Impact Study
- MNR..... Ontario Ministry of Natural Resources
- MTCS..... Ministry of Tourism, Culture and Sport
- mVA mega Volt-Ampere
- NextEra NextEra Energy Canada, ULC
- NHA Natural Heritage Assessment
- O.Reg. 359/09..... Ontario Regulation 359/09
- POI..... Point of Interconnect
- The Project..... Bluewater Wind Energy Centre
- REA..... Renewable Energy Approval

1. Introduction

Varna Wind, Inc. (Varna) is proposing to construct a wind energy centre in the Municipality of Bluewater and the Municipality Huron East in Huron County, Ontario. The following sections of this Renewable Energy Approval (REA) Amendment Report describe the proposed modifications to this Project and resulting updates to the Construction Plan Report.

1.1 The Proponent

The Project will be owned and operated by Varna, 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:Bluewater.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: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 Huron East 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
-81.680043	43.553413
-81.350138	43.534437
-81.402727	43.471275
-81.679229	43.433866

2. Proposed Project Modifications

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

- Construction disturbance area modified to reduce or eliminate impacts to Conservation Authority regulation limit; and,
- Infrastructure or construction disturbance area added or changed to optimize project design/constructability.

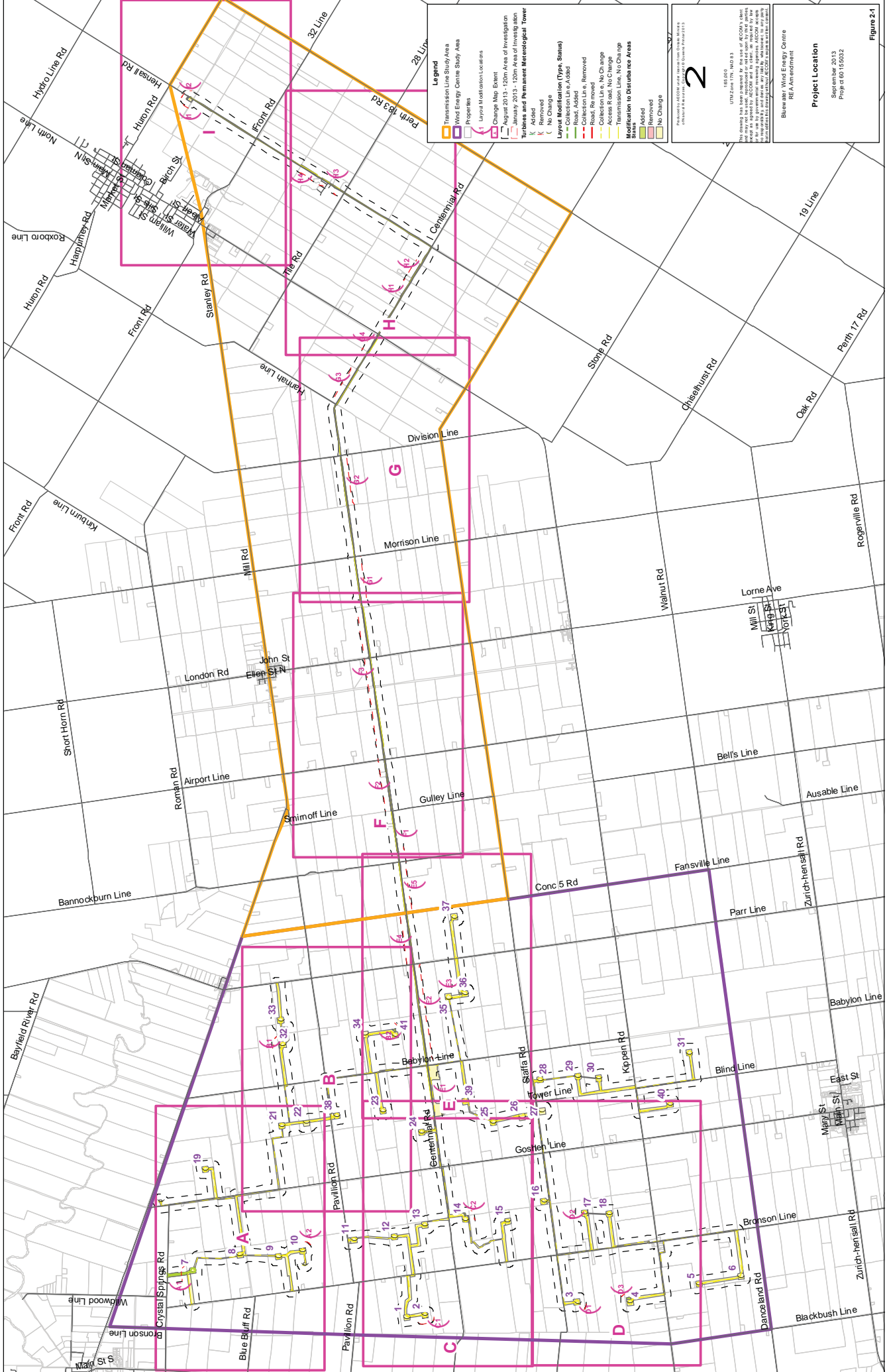
Table 2-1 summarizes and documents the following about each of the proposed modifications:

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	Addition of road to Turbine 7 to travel north towards Crystal Springs Road	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
A2	Removal of construction disturbance area to the south east of Turbine 10	Construction disturbance area modified to reduce or eliminate impacts to Conservation Authority regulation limit	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
B1	Addition of construction disturbance area to the north of Turbine 32	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage features within 120 m; area previously studied for cultural heritage and water body features	N/A
B2	Addition of construction disturbance area to the east of Turbine 41	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage features within 120 m; area previously studied for cultural heritage and water body features	N/A
C1	Addition of construction disturbance area to the west of Turbine 2	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
C2	Addition of construction disturbance area to the south and east of Turbine 14	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
D1	Removal of construction disturbance area to the south west of Turbine 3	Construction disturbance area modified to reduce or eliminate impacts to Conservation Authority regulation limit	None – no new natural heritage features within 120 m; area previously studied for cultural heritage and water body features	N/A
D2	Addition of construction disturbance area to the south of Turbine 17	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
D3	Addition of construction disturbance area to the east of Turbine 4	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
E1 – E2	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage features within 120 m; area previously studied for cultural heritage and water body features	N/A
E3	Addition of construction disturbance area to the north of Turbine 36	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
E4	Addition of construction disturbance area for the transmission line on private property to the north of Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
E5	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
F1	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage features within 120 m; area previously studied for cultural heritage and water body features	N/A
F2	Addition of construction disturbance area for the transmission line on private property to the north of Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
F3	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
G1 – G4	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
H1	Addition of construction disturbance area for the transmission line on private property to the north of Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage and water body features	N/A
H2	Addition of construction disturbance area for the transmission line on private properties to the north of Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability	Construction disturbance area added or changed to optimize project design/ constructability	Cultural Heritage: • None, Location did not require Stage 3 assessment.
H3 – H4	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Hensall Road	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage features within 120 m; area previously studied for cultural heritage and water body features	N/A
I1	Addition of construction disturbance area for the transmission line POI to the north of the existing disturbance area	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	N/A
I2	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Hensall Road	Construction disturbance area added or changed to optimize project design/ constructability	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage	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	N/A	N/A	N/A



Legend

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

2

1500.000

UTM Zone 17N, MGRS 3

The accuracy of this map is based on the accuracy of the data used to create it. The accuracy of the data used to create this map is based on the accuracy of the data used to create it. The accuracy of the data used to create this map is based on the accuracy of the data used to create it.

Blawie Wind Energy Centre
REA Amendment

Project Location
September 2013
Project 60155032

Figure 2-1

3. Edits to the Construction Plan Report

Table 3-1 documents the edits to the Construction Plan Report resulting from the modifications described above. The table includes the text from the original REA submission (*AECOM, June 2012*) and the *Addendum to the Construction Plan Report – Bluewater Wind Energy Centre (AECOM, March 2013)*, and edits to the text (underlined text represents additions and strikethrough text represents deletions). Updated figures are included in **Appendix B** of this Amendment Report.

Table 3-1 Edits to the Construction Plan Report

Section / Page	Original Text*	Revised Text*
Section 2 / page 5	The proposed Project Location is shown on Figure 2-1, 2-2 and 2-3 , and includes the components of the Project listed below:	The proposed Project Location is shown on Figure 2-1, 2-2 and 2-3 , and includes the components of the Project listed below: <u>(Underlined text represents additions and strikethrough text represents deletions)</u>
Section 3.1 / page 17	Approximately 37 km of turbine access roads; and	Approximately 37 38 km of turbine access roads; and
Section 3.1 / page 17	A Cultural Heritage Assessment was also completed to address built heritage and cultural heritage resources related to the Euro-Canadian land use in the area dating prior to 1970. All work was carried out in accordance with the Ontario Heritage Act, the Provincial Policy Statement, and the Environmental Assessment Act. The report identified 76 structures (45 houses and 31 barns) as greater than 40 years old within the Project Study Area and as having general historical interest as they contribute to the character of the vernacular rural landscape.	In 2013, a third phase of the Stage 2 archaeological assessment was conducted in the wind energy centre study area. A total of 2 additional sites were recorded, neither of which were recommended for a Stage 3 archaeological assessment. The additional Stage 2 archaeological assessment was submitted to the MTCS on August 28, 2013, and MTCS provided signed-off on the assessment on September 9, 2013. A Cultural Heritage Assessment was also completed to address 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 Ontario Heritage Act, the Provincial Policy Statement, and the Environmental Assessment Act. The report and its three addendums (August 2012, December 2012 and September 2013) identified 76 80 structures (45 houses and 31 35 barns) as greater than 40 years old within the Project Study Area and as having general historical interest as they contribute to the character of the vernacular rural landscape.
Section 3.2 / page 19	When applying the criteria set out in Ontario Regulation 9/06, none of these structures were determined to have cultural heritage value or interest. This report was submitted to the MTCS for review and comment. Sign-off from the Ministry confirming that the report is satisfactory was received on March 22, 2012.	When applying the criteria set out in Ontario Regulation 9/06, none of these structures were determined to have cultural heritage value or interest. This The third heritage assessment addendum report was submitted to the MTCS for review and comment on September 6, 2013. Sign-off from the Ministry confirming that the report is satisfactory was received on September 11, 2013.
Section 3.2 / page 19	The potential effects, mitigation measures, net effects and monitoring commitments regarding the natural heritage features, in addition to birds and bats, are evaluated in the Natural Heritage Assessment (NHA) Report and the Environmental Effects Monitoring Plan and were submitted to the Ontario Ministry of Natural Resources (MNR) for review and sign-off. Sign-off from the MNR confirming that the report is satisfactory was received on March 28, 2012. An addendum to the NHA was submitted to the MNR on November 2, 2012 to address the modifications to the Project.	The potential effects, mitigation measures, net effects and monitoring commitments regarding the natural heritage features, in addition to birds and bats, are evaluated in the Natural Heritage Assessment and Environmental Impact Study (NHA and EIS) Report and the Environmental Effects Monitoring Plan and were submitted to the Ontario Ministry of Natural Resources (MNR) for review and sign-off. Sign-off from the MNR confirming that the report is satisfactory was received on March 28, 2012. An addendum to the NHA was submitted to the MNR on November 2, 2012 to address the modifications to the Project. AECOM later prepared a NHA and EIS Report Amendment to the Project Location proposed after the original submission of the NHA and EIS to MNR. The MNR issued a re-confirmation letter for the NHA Amendment on January 11, 2013. A second NHA Amendment was submitted to the MNR on August 29, 2013 to address additional modifications to the Project proposed after MNR confirmation and re-confirmation of the NHA and first NHA Amendment.
Table 3.2 / page 19	Features treated as significant for the purpose of this submission (a determination as to whether the mitigation measures described in the EIS will be applied will be made based on the outcome of evaluation of significance studies to be completed prior to construction):	Features treated as significant for the purpose of this submission (a determination as to whether the mitigation measures described in the EIS will be applied will be made based on the outcome of evaluation of significance studies to be completed prior to construction):
Section 3.2.1.2 / page 20	<ul style="list-style-type: none"> • Reptile hibernacula (RH-01 and RH-02); • Bat maternity colonies (BMC-02, BMC-03, BMC-10, BMC-12, BMC-14, and BMC-15); • Amphibian woodland breeding habitat (AWO-03, AWO-04, AWO-05, AWO-06, AWO-08 and AWO-13); and • Amphibian wetland breeding habitat (AWE-01). 	<ul style="list-style-type: none"> • Reptile hibernacula (RH-01 and RH-02); • Bat maternity colonies (BMC-02, BMC-03, BMC-10, BMC-12, BMC-14, and BMC-15); • Amphibian woodland breeding habitat (AWO-03, AWO-04, AWO-05, AWO-06, AWO-08 and AWO-13); and • Amphibian wetland breeding habitat (AWE-01);
Section 3.2.1.2 / page 20	<ul style="list-style-type: none"> • Accidental intrusion into natural features resulting in: <ul style="list-style-type: none"> ▪ habitat damage at Reptile Hibernacula Features RH-01 and RH-02 and Bat Maternity Colony Features BMC-01, BMC-07, BMC-08, BMC-13, BMC-02, BMC-03, BMC-10, BMC-12 and BMC-14 from turbine construction; ▪ damage to trees at Significant Woodland Units E, F, H, K, L, M, N, O, P, Q, T, U, X, Y, AA, AE, AF, AH, AJ, AK, AM from turbine construction and Units G, K, P, U from access road construction, and Units Q, X, Y and AK from collection line construction; ▪ damage to wetland form and function at Significant Wetland Unit Features WET-01, WET-04, WET-05, WET-06, WET-07, WET-08, WET-10 resulting from turbine construction and Features WET-01, WET-04, WET-05, WET-06, WET-07, WET-08, WET-10 from access road construction; ▪ habitat damage at Amphibian Woodland Breeding Habitat Features AWO-03, AWO-04, AWO-05, AWO-06, AWO-08 and AWO-11, and AWO-12) and Amphibian Wetland Breeding Habitat Feature AWE-01 from access road construction; • Noise disturbance to and/or avoidance behaviour of bats during construction within Bat Maternity Colony Feature BMC-15; 	<ul style="list-style-type: none"> • Accidental intrusion into natural features resulting in: <ul style="list-style-type: none"> ▪ habitat damage at Reptile Hibernacula Features RH-01 and RH-02 and Bat Maternity Colony Features BMC-01, BMC-07, BMC-08, BMC-13, BMC-02, BMC-03, BMC-10, BMC-12 and BMC-14 from turbine construction; ▪ damage to trees at Significant Woodland Units E, F, H, K, L, M, N, O, P, Q, T, U, X, Y, AA, AE, AF, AH, AJ, AK, AM from turbine construction and Units G, K, P, U from access road construction, and Units Q, X, Y and AK from collection line construction; ▪ damage to wetland form and function at Significant Wetland Unit Features WET-01, WET-04, WET-05, WET-06, WET-07, WET-08, WET-10 resulting from turbine construction and Features WET-01, WET-04, WET-05, WET-06, WET-07, WET-08, WET-10 from access road construction; ▪ habitat damage at Amphibian Woodland Breeding Habitat Features AWO-03, AWO-04, AWO-05, AWO-06, AWO-08 and AWO-11, and AWO-12) and Amphibian Wetland Breeding Habitat Feature AWE-01 from access road construction; • Noise disturbance to and/or avoidance behaviour of bats during construction of the transmission line within Bat Maternity Colony Feature BMC-15;
Section 3.2.1.2 / page 20	<ul style="list-style-type: none"> • Noise disturbance to bats during turbine construction at Bat Maternity Colony Features BMC-01, BMC-07, BMC-08, BMC-13, BMC-02, BMC-03, BMC-10, BMC-12 and BMC-14; 	<ul style="list-style-type: none"> • Noise disturbance to bats during turbine construction at Bat Maternity Colony Features BMC-01, BMC-07, BMC-08, BMC-13, BMC-02, BMC-03, BMC-10, BMC-12 and BMC-14;
Section 3.2.1.2 / page 20	<ul style="list-style-type: none"> • Sedimentation or erosion from: <ul style="list-style-type: none"> ▪ turbine and access road construction at Significant Wetland Feature WET-01; ▪ from turbine foundation excavation at Significant Valleylands Feature VAL-01; ▪ directional drilling at Wetland Complexes WET-01, WET-04 and WET-05; and, ▪ transmission line construction at Wetland Complexes WET-05, WET-06, WET-12, and WET-13; • Disruption of amphibians moving to breeding pools and home range and possible indirect threats by changes to surface water drainage patterns resulting from access road construction at Amphibian Woodland Breeding Habitat Features AWO-03, AWO-04, AWO-05, AWO-06, AWO-08 and AWO-11, AWO-12, and Amphibian Wetland Breeding Habitat Feature AWE-01; 	<ul style="list-style-type: none"> • Sedimentation or erosion from: <ul style="list-style-type: none"> ▪ turbine and access road construction at Significant Wetland Feature WET-01; ▪ from turbine foundation excavation at Significant Valleylands Feature VAL-01; ▪ directional drilling at Wetland Complexes WET-01, WET-04 and WET-05; and, ▪ transmission line construction at Wetland Complexes WET-05, WET-06, WET-12, and WET-13; • Disruption of amphibians moving to breeding pools and home range and possible indirect threats by changes to surface water drainage patterns resulting from access road construction at Amphibian Woodland Breeding Habitat Features AWO-03, AWO-04, AWO-05, AWO-06, AWO-08 and AWO-11, AWO-12, and Amphibian Wetland Breeding Habitat Feature AWE-01;

Table 3-1 Edits to the Construction Plan Report

Section / Page	Original Text*	Revised Text*
	<p>• Unplanned intrusion into Significant Woodland, Significant Wetlands/wetlands and Significant Wildlife Habitat in event of equipment malfunction due to directional drilling under Significant Woodlands (Units Q (two locations) YK and AK), Significant Wetland Complexes WET-01, WET-04 and WET-05 and Significant Amphibian Woodland Breeding Habitat AWO-06 due to directional drilling; and</p> <p>• Unintended damage to adjacent vegetation due to proximity of transmission line to significant woodlands and wetlands, small size of the right-of-way and constrained work area at Woodland Units: AL, AO, AP, AQ, AR, AS; and Wetland Complexes WET-05, WET-06, WET-12, and WET-13.</p>	<p>(Underlined text represents additions and strikethrough text represents deletions)</p> <p>• Unplanned intrusion into <u>Significant Woodland, Significant Wetlands/wetlands/wildlife habitat and Significant Wildlife Habitat</u> in event of equipment malfunction due to directional drilling under Significant Woodlands (Units Q (two locations) YK and AK), Significant Wetland Complexes WET-01, WET-04 and WET-05 and Significant Amphibian Woodland Breeding Habitat AWO-06 due to directional drilling; and</p> <p>• Unintended damage to adjacent vegetation due to proximity of transmission line to significant woodlands and wetlands, small size of the right-of-way and constrained work area at Woodland Units: AL, AO, AP, AQ, AR, AS; and Wetland Complexes WET-05, WET-06, WET-12, and WET-13.</p>
Table 3-4 / page 26	<p>Potential Effect Displacement and/or mortality of nursing female and juvenile bats resulting from vegetation clearing for transmission line construction within Bat Maternity Colonies (BMC-15).</p> <p>Monitoring Plan and Contingency Measures</p> <ul style="list-style-type: none"> Supervision of tree removal by a qualified Environmental Monitor. Contingency Measures <ul style="list-style-type: none"> Any damaged trees should be pruned through implementation of proper arboricultural techniques, under supervision of an Arborist or Forester. 	<p>Potential Effect Displacement and/or mortality of nursing female and juvenile bats resulting from vegetation clearing for transmission line construction within Bat Maternity Colonies Colony (BMC-15).</p> <p>Monitoring Plan and Contingency Measures</p> <ul style="list-style-type: none"> Supervision of tree removal by a qualified Environmental Monitor. Contingency Measures <ul style="list-style-type: none"> Any damaged trees should be pruned through implementation of proper arboricultural techniques, under supervision of an Arborist or Forester.
Table 3-4 / page 26	<p>Mitigation Strategy</p> <ul style="list-style-type: none"> For each suitable cavity tree to be removed, a bat house will be installed in the closest suitable woodland habitat (the remainder of the woodland for the affected habitat). Details of bat box construction and placement will be provided to MNR for approval prior to installation. If a significant maternity colony must be removed, timing, location and bat house design will be of utmost importance for the colony to successfully re-establish, and will be discussed with the MNR. Tree removal will occur outside of the bat material period of May 1st to July 31st, wherever possible. If this is not possible, MNR will be consulted regarding mitigation measures that may be required. Tree removal will occur during daylight hours. 	<p>Mitigation Strategy</p> <ul style="list-style-type: none"> For each suitable cavity tree to be removed, a bat house will be installed in the closest suitable woodland habitat (the remainder of the woodland for the affected habitat). Details of bat box construction and placement will be provided to MNR for approval prior to installation. If a significant maternity colony must be removed, timing, location and bat house design will be of utmost importance for the colony to successfully re-establish, and will be discussed with the MNR. Tree removal will occur outside of the bat material period of May 1st to July 31st, wherever possible. If this is not possible, MNR will be consulted regarding mitigation measures that may be required. Tree removal will occur during daylight hours. This is not possible, MNR will be consulted regarding mitigation measures that may be required.
Table 3-4 / page 26	<p>Mitigation Strategy</p> <ul style="list-style-type: none"> Tree removal will occur outside of the bat material period of May 1 to July 31. If this is not possible, MNR will be consulted regarding mitigation measures that may be required. Tree removal will occur during daylight hours. 	<p>Mitigation Strategy</p> <ul style="list-style-type: none"> Tree removal will occur outside of the bat material period of May 1 to July 31. If this is not possible, MNR will be consulted regarding mitigation measures that may be required. Tree removal will occur during daylight hours.
Table 3-4 / page 26	<p>Potential Effect Removal of vegetation within significant feature resulting in habitat damage from clearing for transmission line within Red-headed Woodpecker Habitat Feature.</p> <p>Noise disturbance to breeding Red-headed Woodpeckers during transmission line construction within Red-headed Woodpecker Habitat Feature.</p> <p>Monitoring Plan and Contingency Measures</p> <ul style="list-style-type: none"> Supervision of vegetation removal by a qualified Environmental Monitor to limit removal of habitat to the extent possible. Contingency Measures: <ul style="list-style-type: none"> Any damaged trees will be pruned through implementation of proper arboricultural techniques, under supervision of an Arborist or Forester. 	<p>Potential Effect Removal of vegetation within significant feature resulting in habitat damage from clearing for transmission line within Red-headed Woodpecker Habitat Feature SCB-02.</p> <p>Noise disturbance to breeding Red-headed Woodpeckers during transmission line construction within Red-headed Woodpecker Habitat Feature SCB-02.</p> <p>Monitoring Plan and Contingency Measures</p> <ul style="list-style-type: none"> If vegetation clearing is to occur during breeding season, conduct nest cavity searches within the area of vegetation removal and additional 20 m surrounding the area. Identify locations of cavities in dead or partially dead trees within the Red-headed Woodpecker habitat. Nest searches will be conducted by a qualified Biologist on one occasion prior to vegetation clearing in order to confirm active nest cavities. If cavity is observed as active, maintain a 20 m buffer within which no vegetation removal will occur. Supervision of vegetation removal by a qualified Environmental Monitor to limit removal of habitat to the extent possible. Contingency Measures: <ul style="list-style-type: none"> Any damaged trees will be pruned through implementation of proper arboricultural techniques, under supervision of an Arborist or Forester.
Table 3-4 / page 26	<p>Potential Effect Loss of up to 0.5 ha of forest cover within Significant Woodlands from clearing for transmission line.</p> <p>Mitigation Strategy</p> <ul style="list-style-type: none"> Establish an area of forest equal in area to the cleared area (up to 0.5 ha) through tree planting and management (e.g., in partnership with a local Conservation Authority). Details of the afforestation plan will be provided to MNR in a Compensation Plan. Perform vegetation clearing outside of the breeding bird season (May 1 to July 31). If this is not possible, MNR will be consulted regarding mitigation measures that may be required. Clearly stake area to be cleared. Fall trees with a chainsaw toward the construction area to reduce damage to adjacent vegetation being retained. Removal of tree limbs on adjacent trees being retained should be carried out under supervision of an Arborist or Forester. Damaged tree roots will be cut clean as soon as possible and exposed roots covered in approved topsoil. This work to be carried out under 	<p>Potential Effect Loss of up to 0.5 ha of forest cover within Significant Woodlands A.J. AP and AO from clearing for transmission line.</p> <p>Mitigation Strategy</p> <ul style="list-style-type: none"> Establish an area of forest equal in area to the cleared area (up to 0.5 ha) through tree planting and management (e.g., in partnership with a local Conservation Authority). Details of the afforestation plan will be provided to MNR in a Compensation Plan. Perform vegetation clearing outside of the breeding bird season (May 1 to July 31). If this is not possible, MNR will be consulted regarding mitigation measures that may be required. Clearly stake area to be cleared. Fall trees with a chainsaw toward the construction area to reduce damage to adjacent vegetation being retained. Removal of tree limbs on adjacent trees being retained should be carried out under supervision of an Arborist or Forester. Damaged tree roots will be cut clean as soon as possible and exposed roots covered in approved topsoil. This work to be carried out under

Table 3-1 Edits to the Construction Plan Report

Section / Page	Original Text*	Revised Text*
<p>Table 3-4 / page 27</p>	<p><i>supervision of an Arborist or Forester.</i></p> <p>Potential Effect Sedimentation and erosion associated with transmission line construction affecting function of significant Wetland Complexes WET-05, WET-06, WET-12, and WET-13.</p>	<p>(Underlined text represents additions and throughout text represents deletions)</p> <p><i>supervision of an Arborist or Forester.</i></p> <p>Potential Effect Sedimentation and erosion associated with transmission line construction affecting function of significant Wetland Complexes WET-05, WET-06, WET-12, and WET-13.</p>
<p>Table 3-4 / page 28</p>	<p>N/A</p>	<p>Potential Effect <i>Unplanned intrusion into significant wildlife habitat (AWO-06) in event of equipment malfunction due to directional drilling.</i></p> <p>Performance Objectives <i>See directional drilling above.</i></p> <p>Mitigation Strategy <i>See directional drilling above.</i></p> <p>Residual Effects <i>See directional drilling above.</i></p> <p>Monitoring Plan and Contingency Measures <i>See directional drilling above.</i></p>
<p>Section 3.9 / page 43</p>	<p>There are three authorized aggregate resources located within the Project Study Area. The first aggregate resource is a 36 ha site owned by Huron County and has a Class A Licence for over 20,000 tonnes. This is located 1,510 m from the nearest Project infrastructure (access road to Turbine 33). The second aggregate resource is a 19 ha site owned by G. Heard Construction Limited and has a Class B Licence for 20,000 tonnes or less. This is located 402 m from the nearest Project infrastructure (access road to Turbine 7). The third aggregate resource is a 4 ha Class B site licensed to Donald G. Heard, but which has since been surrendered. This is located 242 m from the nearest Project infrastructure (transmission line).</p>	<p>There are three authorized aggregate resources located within the Project Study Area. The first aggregate resource is a 36 ha site owned by Huron County and has a Class A Licence for over 20,000 tonnes. This is located 1,510 m from the nearest Project infrastructure (access road to Turbine 33). The second aggregate resource is a 19 ha site owned by G. Heard Construction Limited and has a Class B Licence for 20,000 tonnes or less. This is located 402 m from the nearest Project infrastructure (access road to Turbine 7). The third aggregate resource is a 4 ha Class B site licensed to Donald G. Heard, but has since been surrendered. This is located 242 m from the nearest Project infrastructure (transmission line). The third aggregate resource is a 19 ha site owned by G. Heard Construction Limited. This is an active authorized aggregate resource with a Class B Licence for 20,000 tonnes or less and is located adjacent to the proposed access road to Turbine 7 along Coastal Springs Road. As the resource is situated to the north of the road allowance (Coastal Springs Road), and the access road is proposed to be constructed running north to south on the south side of the road allowance, no effects as a result of construction activities are anticipated.</p>

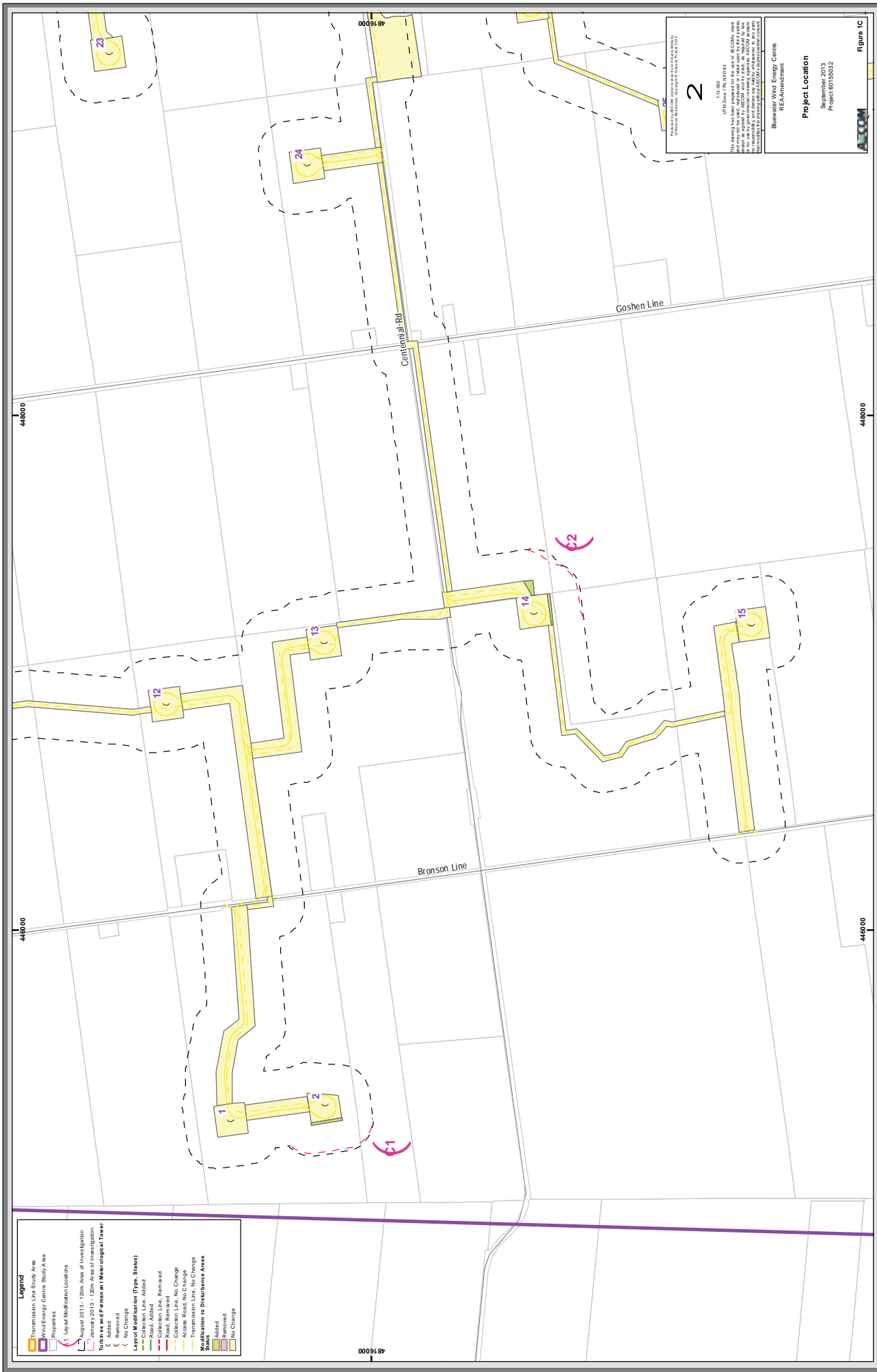
Note: * Italics denotes changes from the Addendum to the Construction Plan Report – Bluewater Wind Energy Centre (AECOM, March 2013)

4. Summary and Conclusions

The Project modifications described in this REA Amendment Report do not change the overall conclusion of the Construction Plan Report which states that “this Project can be constructed and installed without any significant adverse residual effects”.

Appendix A

Project Modifications



2

11.3.200

UTP/Zone 176, N4383

This study has been prepared for the use of the client. It is not to be used for any other purpose without the written consent of the client. The client is responsible for the accuracy of the information provided. The client is also responsible for the accuracy of the information provided. The client is also responsible for the accuracy of the information provided.

Blowwater Wind Energy Centre
REA Amendment

Project Location
September 2013
Project 60155032

ALCON

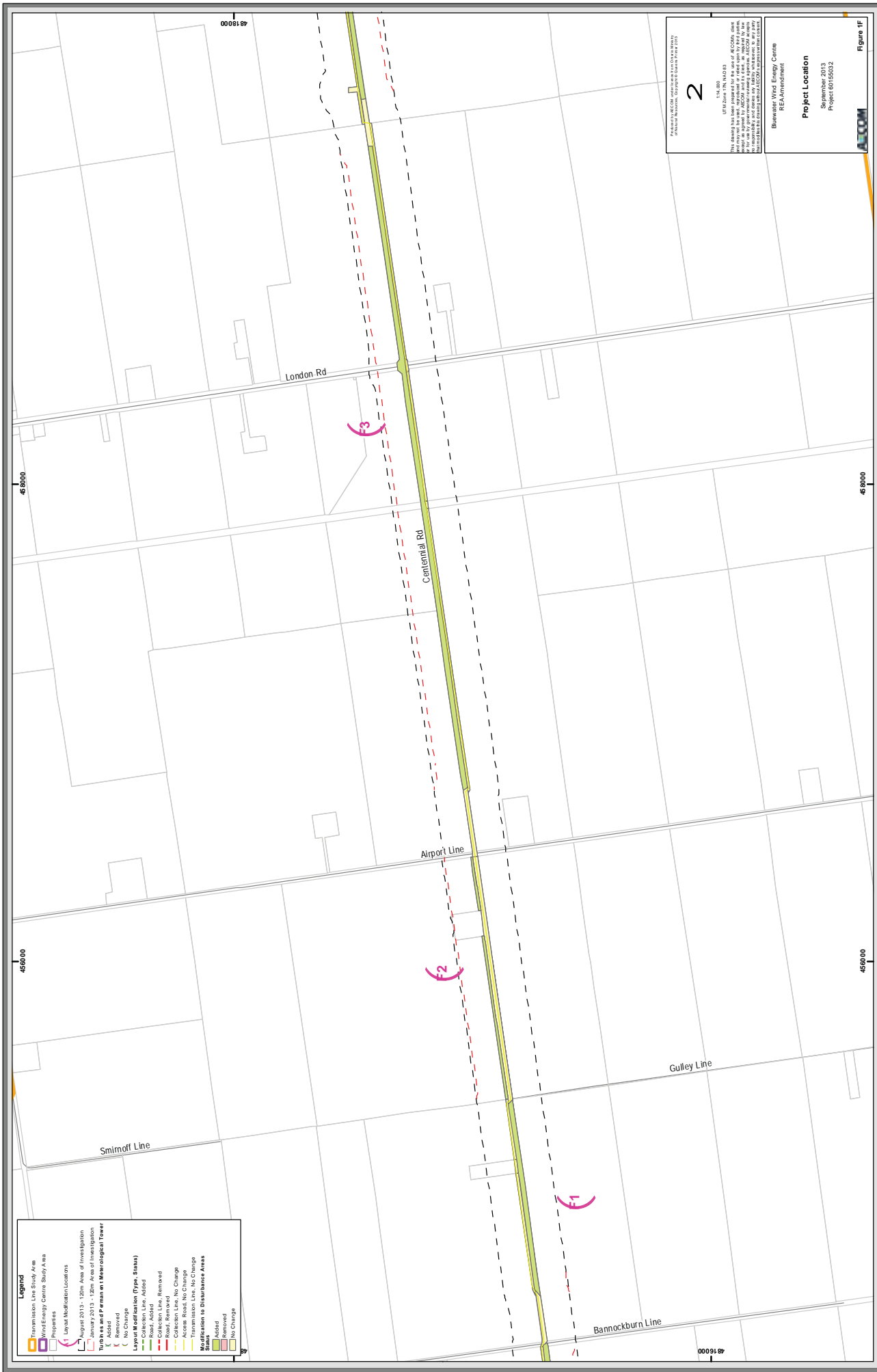
Figure 1C



Project No. 60156032
 1/13/2013
 UPLAZING PERMITS
 The study has been completed and the results of the study are available for review. The study was conducted in accordance with the requirements of the Environmental Assessment Act and the Environmental Assessment Regulations. The study was conducted by the project proponent and the results of the study are available for review. The study was conducted by the project proponent and the results of the study are available for review.

Bannockburn Wind Energy Centre
 REA Amendment
Project Location
 September 2013
 Project 60156032

2
 Figure 1E



Legend

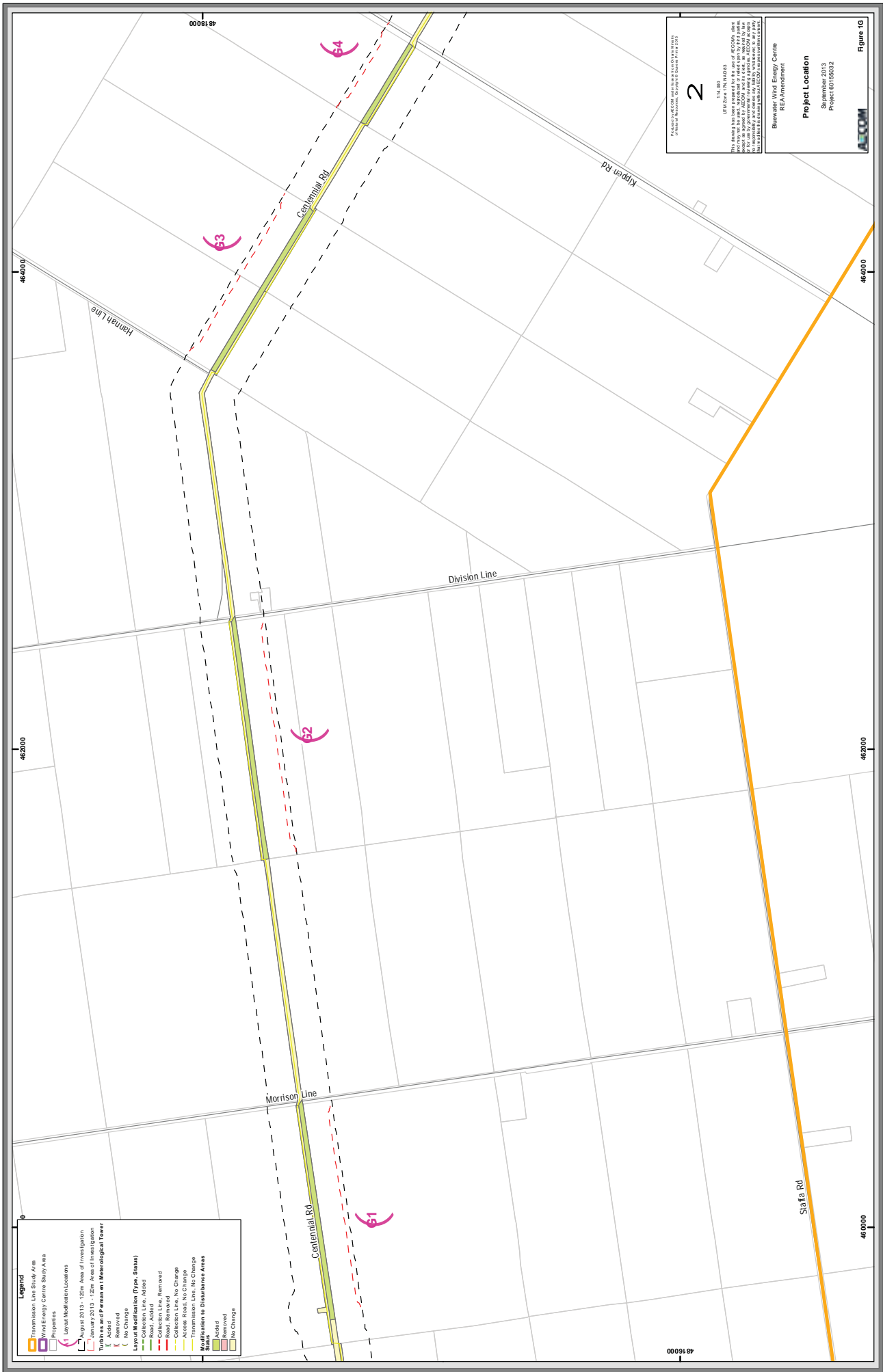
- Transmission Line Study Area
- Wind Energy Centre Study Area
- Properties
- Layout Modification Locations
 - August 2013 - 120m Area of Investigation
 - January 2013 - 120m Area of Investigation
 - Turnkeys and Permanent Meteorological Tower
 - Added
 - Removed
 - No Change
- Layout Modification (Type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

2

Project: BRECOM - Wind Energy Centre REA Amendment
 Date: 13/09/2013
 UTM Zone: 17N, MGRS: 4816000 4580000
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Bannockburn Wind Energy Centre
 REA Amendment
Project Location
 September 2013
 Project: 60156032

AECOM Figure 1F



Legend

- Transmission Line Study Area
- Wind Energy Center Study Area
- Properties
- Layout Modification Locations
- August 2013 - 120m Area of Investigation
- January 2013 - 120m Area of Investigation
- January 2013 - 120m Area of Investigation
- Removed
- Added
- No Change

Layout Modification (Type - Status)

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

Modification to Disturbance Areas

- Added
- Removed
- No Change

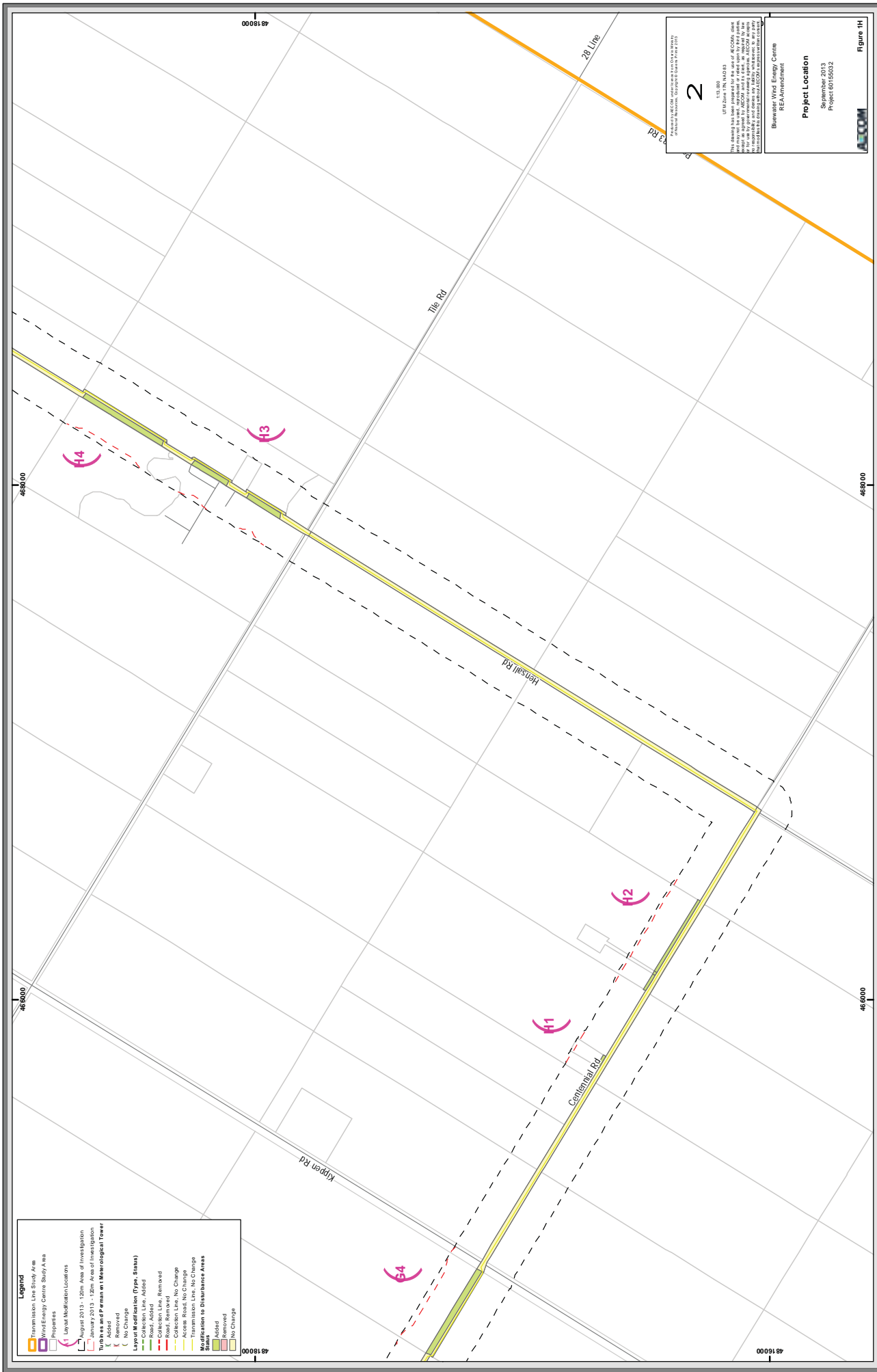
2

UTP/Zone 176, N4333
1:14, 000

Blowwater Wind Energy Centre
REA Amendment

Project Location
September 2013
Project 60155032

ALCOM Figure 1G



Legend

- Transmission Line Study Area
- Wind Energy Centre Study Area
- Properties
- Layout Modification Locations
 - August 2013 - 120m Area of Investigation
 - January 2013 - 120m Area of Investigation
 - Turn-ins and Perman on Newological Tower
 - Removed
 - No Change
- Layout Modification (Type Status)
 - Collection Line Added
 - Collection Line Removed
 - Road Removed
 - Collection Line No Change
 - Transmission Line No Change
- Modification to Disturbance Areas
 - Added
 - Removed
 - No Change

2

Project No. M2013-001
 UFT/Zone 1/PA/M2013-001
 1/13/2013

Blenworth Wind Energy Centre
 REA Amendment

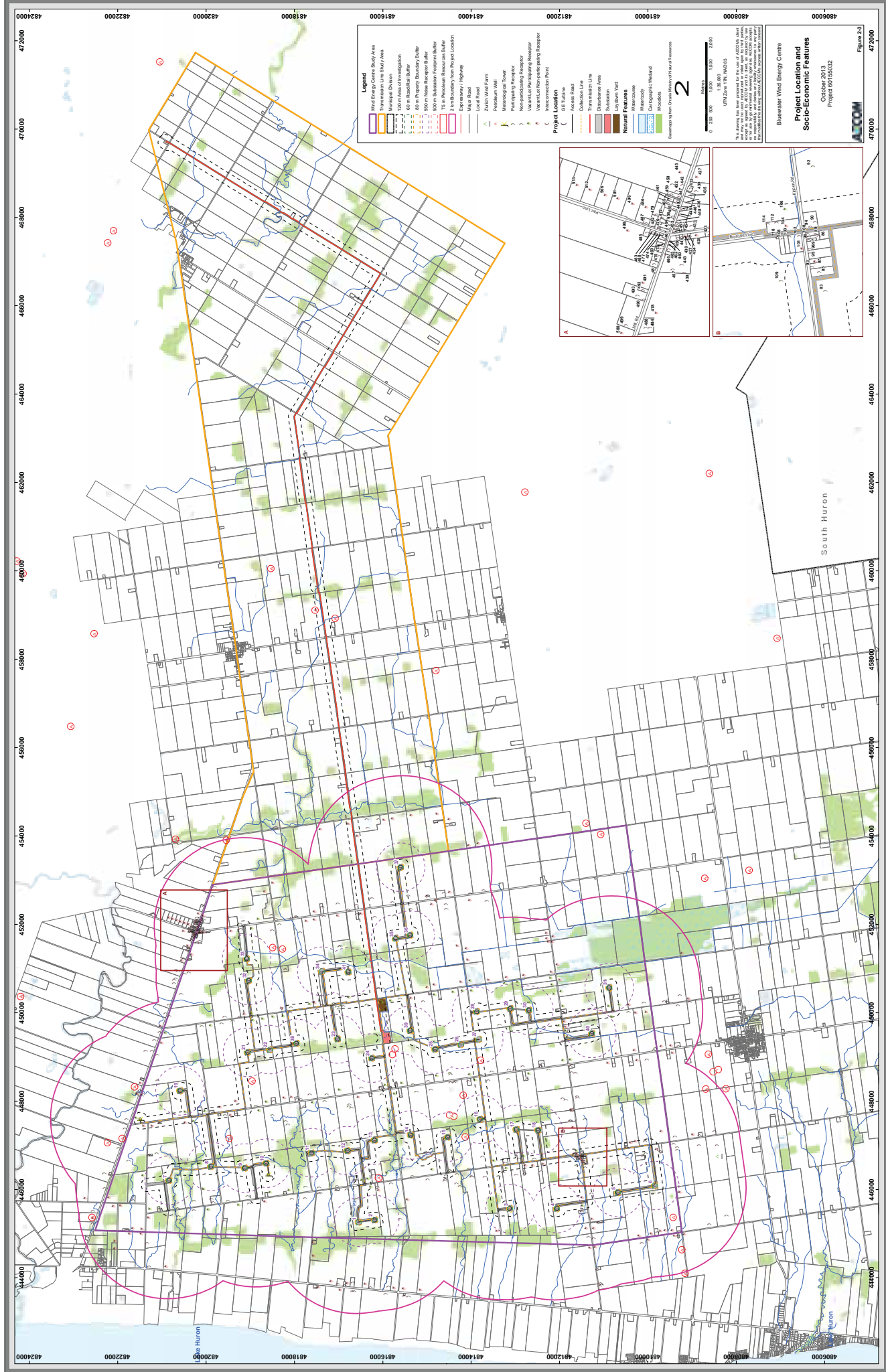
Project Location
 September 2013
 Project 60155032

ALCOM

Figure 1H

Appendix B

Amended Figures for the
Construction Plan Report



Legend

- Work Area Study Area
- Transmission Line Study Area
- Municipal Division
- 100 m Area of Investigation
- 50 m Residential Buffer
- 100 m Non-Residential Buffer
- 500 m Substation Footprint Buffer
- 75 m Premium Recreational Buffer
- 2 km Boundary from Project Location
- Highway / Highway
- Local Road
- Zach's Wind Farm
- Premium Well
- Recreational Tower
- Nonparticipating Receptor
- Value-at-Risk Participating Receptor
- Value-at-Risk Nonparticipating Receptor
- Recreation Point
- Project Location
- OE Turbine
- Access Road
- Collection Line
- Transmission Line
- Transformer Area
- Substation
- Levee/Wall
- Natural Features
- Watercourse
- Outcrop/Walland
- Woodlot

Project Location

Scale: 0 250 500 1000 1500 2000

UTM Zone 18N, NAD83

This drawing has been prepared to the scale of 1:2000. All dimensions are shown in meters. All dimensions are shown in meters. All dimensions are shown in meters.

Blowwater Wind Energy Centre
 Project Location and
 Socio-Economic Features
 October 2013
 Project 60155032
ATCOM

