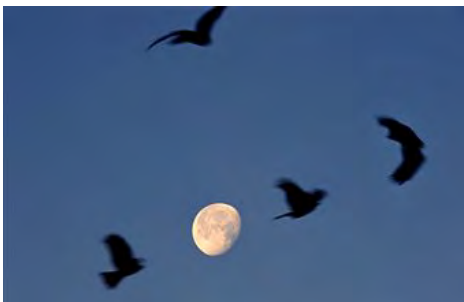


# ***RENEWABLE ENERGY APPROVAL***

## **PROJECT DESIGN CHANGE SUMMARY REPORT**

### **ADELAIDE WIND ENERGY CENTRE**

**AUGUST 2012**



**RENEWABLE ENERGY APPROVAL  
APPLICATION – PROJECT DESIGN  
CHANGE SUMMARY REPORT**

**ADELAIDE WIND ENERGY CENTRE,  
ONTARIO**

Client	NextEra Energy Canada, ULC
Contact	Ben Greenhouse
Document No.	1009-CAMO-R-08
Issue	C
Status	Final
Classification	Client's Discretion
Date	17 August 2012

Author	N. O'Blenes
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Checked by	P. Henn
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Approved by	P. Henn
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GL Garrad Hassan Canada, Inc.

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### REVISION HISTORY

<b>Issue</b>	<b>Issue Date</b>	<b>Summary</b>
A	6 July 2012	Initial issue for review
B	8 August 2012	Updated to included addition land to Project substation, information on standardization of turbine disturbance areas and noise impact assessment
C	17 August 2012	Updated to Include Natural Heritage, archaeology and Built Heritage Addendums

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## **1      PREAMBLE**

NextEra Energy Canada, ULC (the “Client”) is proposing to develop the Adelaide Wind Energy Centre (the “Project”) which is subject to Ontario Regulation 359/09 (Renewable Energy Approvals (REA) [1] under Part V.0.1 of the Ontario Environmental Protection Act (EPA)) and Regulation 521/10 [2]. Kerwood Wind, Inc. (the “Proponent”), was awarded a FIT Contract for this Project in July 2011, and is seeking a Renewable Energy Approval from the Ontario Ministry of the Environment (MOE). Kerwood Wind, Inc. is a wholly-owned subsidiary of NextEra Energy Canada ULC. The parent company of NextEra Energy Canada ULC is NextEra Energy Resources, LLC, a global leader in wind energy generation with a current operating portfolio of over 8,800 wind turbines across North America.

Subsequent to the public release of the Project’s REA reports in April 2012, but prior to the final public open houses, the Project design has undergone a number of modifications with respect to the original Project layout as released in April, 2012. The ultimate layout as presented at the final public meetings included the changes described herein. Descriptions of and rationales for these changes are presented herein, as are the implications that these changes are anticipated to have on the Archaeological and Natural Heritage Assessments.

This Project Design Change Summary Report has been prepared in accordance with Chapter 10, Section 3 of MOE’s “Technical Guide to Renewable Energy Approvals” [3].

## **2 DESCRIPTION OF PROJECT**

### **2.1 Project Name and Project Proponent**

The name of the project is Adelaide Wind Energy Centre (hereafter referred to as “the Project”); Kerwood Wind, Inc. is the Project proponent (the “Proponent”).

### **2.2 General Project Description**

The proposed Project Study Area comprises two main sectors, the Wind Energy Centre Study Area, which contains the wind farm itself, and its associated infrastructure, and the Transmission Line Study Area. Within the transmission line study area, Kerwood wind Inc. is proposing a 115 kV transmission line to run from the Project’s substation on to a switchyard and then on to a second substation (Parkhill substation) where it will be transferred to a Hydro One-owned switchyard and on to Hydro One’s 500 kV transmission line at the east end of the Transmission Line Study Area. It is important to note that the 115 kV line running from the switchyard to the Parkhill substation then to the Hydro One-owned switchyard on to Hydro One’s existing 500 kV line is common to three of NextEra’s Projects, i.e. Adelaide, Bornish and Jericho Wind Energy Centres.

The Wind Energy Centre Study Area is located in south-western Ontario, in the Township of Adelaide-Metcalf, Middlesex County, Ontario. More specifically, the wind farm components are located south of Townsend Line, west of Centre Road, north of Napperton Drive and east of Sexton Road. The total Wind Energy Centre Study Area is approximately 6,515 ha. Project components will be installed on privately-owned agricultural lots within this area, though the Project’s collection system will be partially located on public rights-of-way. General geographic coordinates of the Wind Energy Centre Study Area are presented in Table 1-1.

**Table 1-1: Geographic coordinates of the Wind Energy Centre Study Area**

<b>Site</b>	<b>Easting</b>	<b>Northing</b>
Northwest corner	436378	4767049
Northeast corner	447998	4767049
Southwest corner	447998	4756197
Southeast corner	436378	4756197

The Project also comprises a proposed transmission route which is located to the north of the Wind Energy Centre Study Area and crosses into the Municipality of North Middlesex. The proposed transmission route is to travel north from the Project substation using the existing right-of-way along Kerwood Road to a switchyard located just south of Elginfield Road. From there the transmission route is proposed to run east along Elginfield and Nairn Roads within municipal rights-of-way to a second, Parkhill, substation then to a Hydro one-owned switchyard on to an existing Hydro One 500 kV transmission line. General natural heritage information in the vicinity of the transmission line route is provided in the Natural Heritage Assessment reports, which are submitted as part of the complete REA application package.

The location of the Wind Energy Centre Study Area was defined early in the planning process for the proposed wind energy facility, based on the wind resource, approximate area required for the proposed Project, and availability of existing infrastructure for connection to the electrical grid. The Project Study Area was used to facilitate information collection and Records Review.

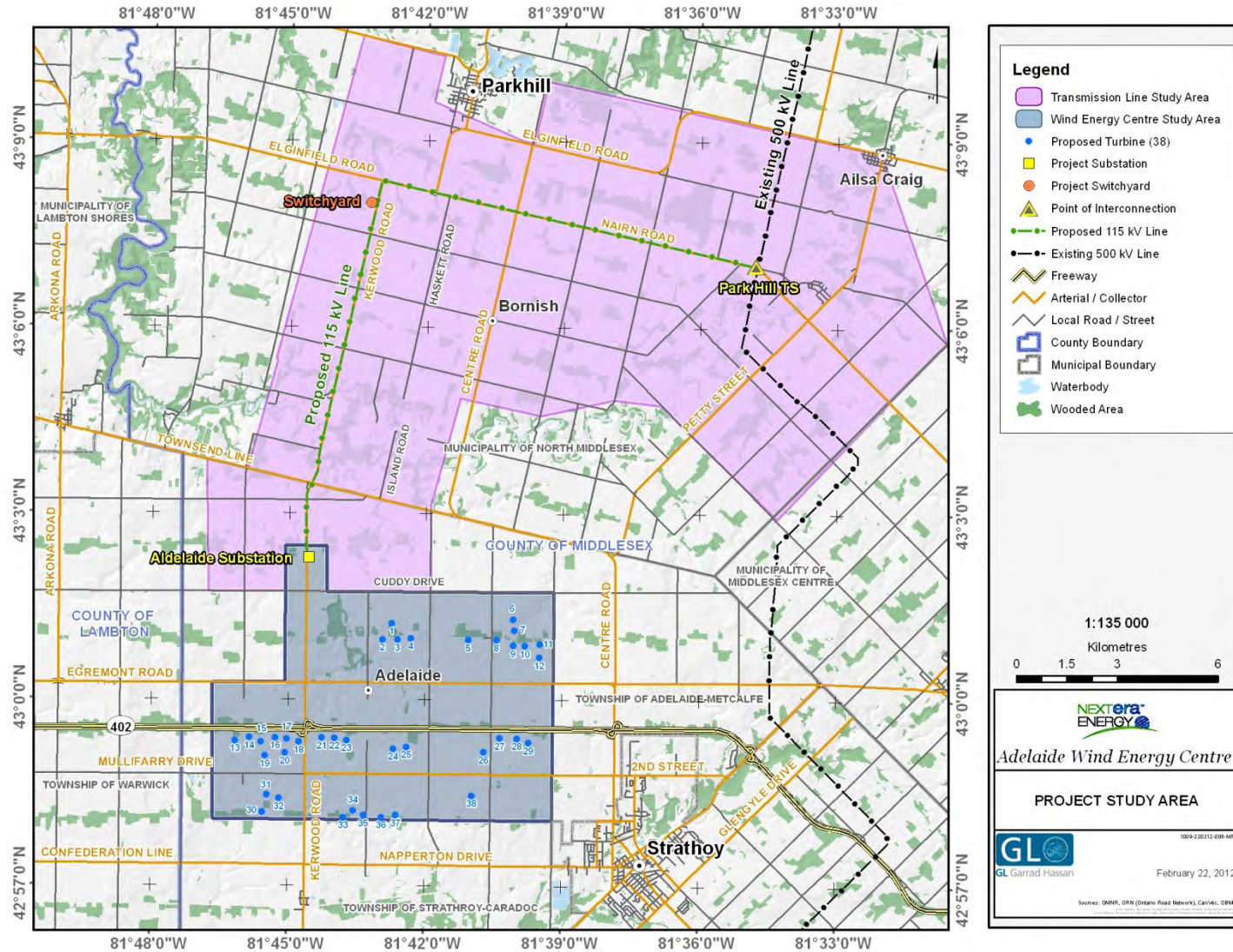


Figure 2-1: Project study area

## **2.3      Description of the Energy Source, Nameplate Capacity, and Class of Facility**

The wind turbine generators of the Project will convert the wind’s energy into electricity which will be fed into the Hydro One transmission system. This Project is considered to be a Class 4 Wind Facility. The Project is proposed to consist of 37, 1.62 MW turbines with a total nameplate capacity of up to 59.9 MW, though 38 turbine locations will be permitted.

## **2.4      Contact Information**

### **Project Proponent**

The Project proponent is Kerwood Wind Inc., a developer of wind energy. The primary contact for Kerwood Wind Inc. for this Project is:

Ben Greenhouse  
NextEra Energy Canada, ULC  
North Service Road, Suite 205  
Burlington, ON L7L 6W6  
Phone 1-877-257-7330  
Fax 905-335-5731  
www.NextEraEnergyCanada.com  
Adelaide.Wind@NextEraEnergy.com

### **Project Consultant**

GL Garrad Hassan Canada, Inc. (hereafter referred to as “GL GH”), a member of the GL Group and part of the GL Garrad Hassan brand, has been retained to lead the environmental assessment for the Adelaide Wind Energy Centre.

The Environmental and Permitting Services team of GL GH has completed mandates throughout Canada, the United States and in many other parts of the world. These mandates include permitting management, permit applications, environmental impact assessment, and various environmental studies for more than 15,000 MW of wind and solar-PV projects.

GL GH’s environmental team is composed of over 20 environmental professionals, including environmental impact specialists, planners, GIS, technicians and engineers.

GL GH has no equity stake in any device or project. This rule of operation is central to its philosophy, distinguishing it from many other players and underscoring its independence.

GL GH's contact information is as follows:

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nancy.oblenes@gl-garradhassan.com

Further information about GL GH can be found at: [www.gl-garradhassan.com](http://www.gl-garradhassan.com).

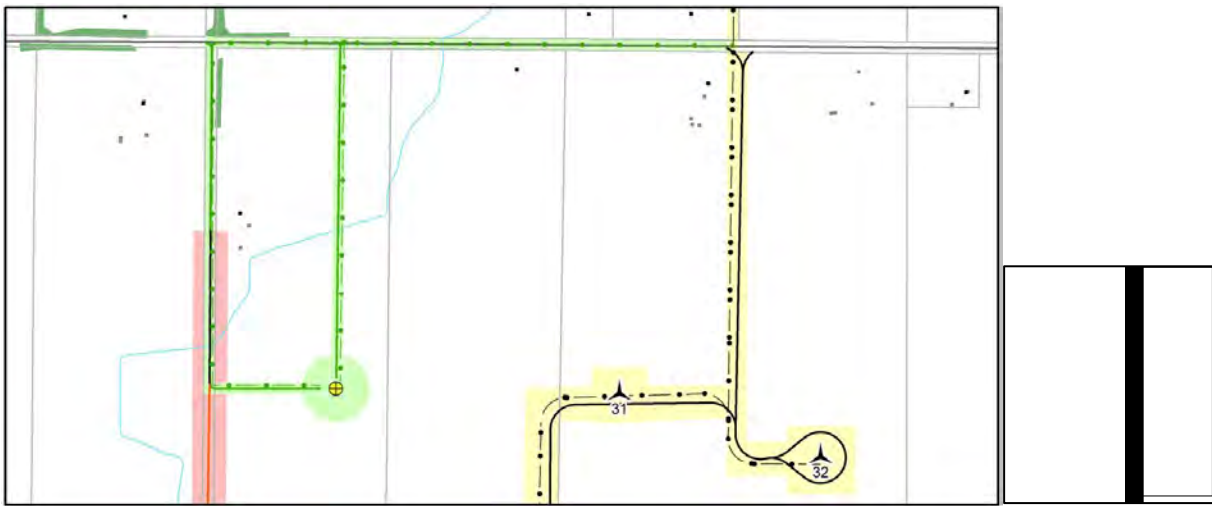
### 3 CHANGES TO PROJECT DESIGN

#### 3.1 Design Change 1 – Permanent Meteorological Tower Location

##### Description of Change

The permanent meteorological tower is located in the southwest section of the Project area. The proposed location is approximately 502 m west of Turbine 31.

Figure 3-1 below shows a screenshot of this design change.



**Figure 3-1: Design Change 1**

##### Rationale for Change

At the time the Site plan was released for public consultation the final location of the permanent meteorological tower had not been confirmed. Pursuant to consultation with the affected landowner and the development team a final location has been confirmed.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

##### Archaeological Assessment

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.



MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

### Natural Heritage

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

## 3.2 Design Change 2 – Removal of Access Road to Turbine 30

### Description of Change

The west access road to Turbine 30 has been removed from the Project layout. Turbine 30 will be accessed via a new access road travelling south from Turbine 31.

Figure 3-2 below shows a screenshot of this design change.

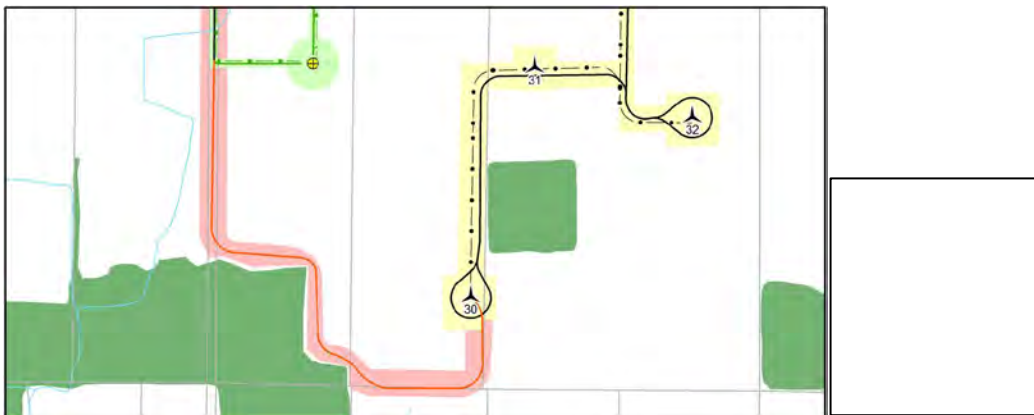


Figure 3-2: Design Change 2

## **Rationale for Change**

The reconfigured access road to Turbine 30 is a result of consultation with the affected landowner to reduce the impact on active agricultural land by reducing the length of road required.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

## **Archaeological Assessment**

A Stage 2 archaeological study of the Project design change identified was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

## **Natural Heritage**

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### **3.3 Design Change 3 – Reconfigured Access Roads to Turbines 13 and 14**

#### **Description of Change**

The access road for Turbines 13 and 14 has been re-configured to travel along the north property lines of the properties hosting the turbines.

Figure 3-3 below shows a screenshot of this design change.



**Figure 3-3: Design Change 3**

### **Rationale for Change**

Pursuant to consultation with the affected landowners the proposed layout was optimized to reduce the impact on the operation of active agricultural land by re-routing the access road and collector cable to follow the edge of crop lines as closely as possible.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

### **Archaeological Assessment**

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

### **Natural Heritage**

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### 3.4 Design Change 4 – Reconfigured Collector Cable and Access Road to Turbine 33

#### Description of Change

The collector cable and access road to Turbine 33 has been re-configured to travel directly west of Turbine 34.

Figure 3-4 below shows a screenshot of this design change.



**Figure 3-4: Design Change 4**

#### Rationale for Change

Pursuant to consultation with the affected landowner and the construction team the layout has been optimized to reduce the length of access road and collector cable required.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

#### Archaeological Assessment

A Stage 2 archaeological study of the Project design change identified was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

### Natural Heritage

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

## 3.5 Design Change 5 – Turbine 35 Move

### Description of Change

Turbine 35 has been relocated 5 m to the west of the original proposed layout.

Figure 3-5 below shows a screenshot of this design change.

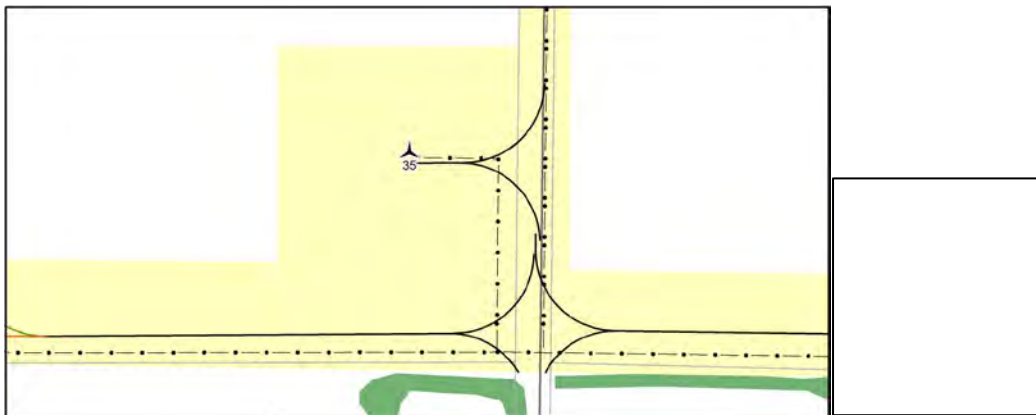


Figure 3-5: Design Change 5

## Archaeological Assessment

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

## Natural Heritage

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

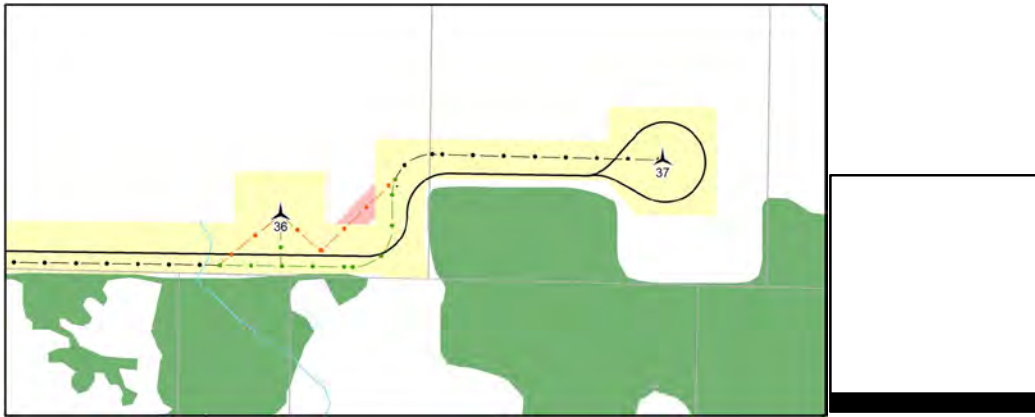
MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### 3.6 Design Change 6 – Reconfigured Collector Cable between Turbines 36 and 37

#### Description of Change

The collector cable from turbine 36 to turbine 37 has been reconfigured to the south to follow the access road.

Figure 3-6 below shows a screenshot of this design change.



**Figure 3-6: Design Change 6**

### **Rationale for Change**

At the request of the landowner and in consultation with the construction team, the layout was optimized to follow the access road, reducing the disturbance of active agricultural land during construction.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

### **Archaeological Assessment**

A Stage 2 archaeological study of the Project design change identified was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

### **Natural Heritage**

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and

as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### 3.7 Design Change 7– Reconfigured Collector Cable to Turbines 24 and 25

#### Description of Change

The collector cable from Turbine 24 has been re-configured to travel north from Mullifarry Drive then east to Turbine 25. The collector cable from the original design to Turbine 24, east from Brown Road, has been removed.

Figure 3-7 below shows a screenshot of this design change.

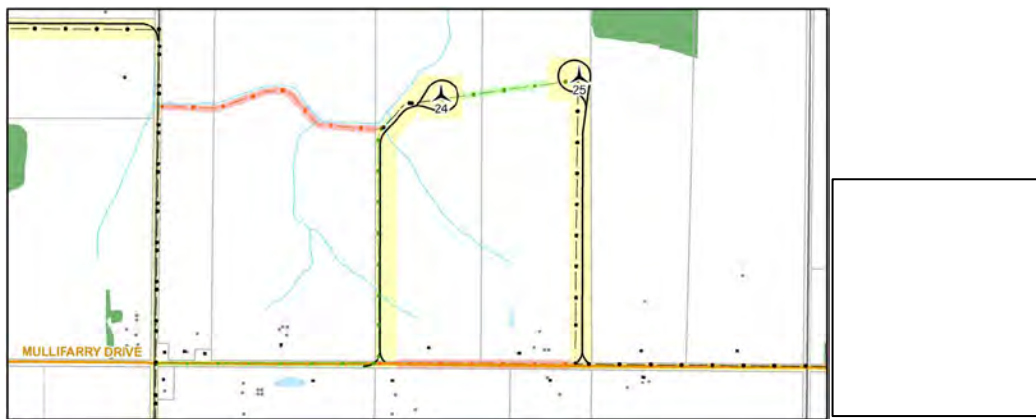


Figure 3-7: Design Change 7

#### Rationale for Change

At the request of the landowner and in consultation with the construction team, the layout has been optimized to reduce the disturbance of active agricultural land during construction.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

#### Archaeological Assessment

A Stage 2 archaeological study of the Project design change identified was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning



those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

### Natural Heritage

A Natural Heritage review of the natural features within 120 m of the Project design change identified was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

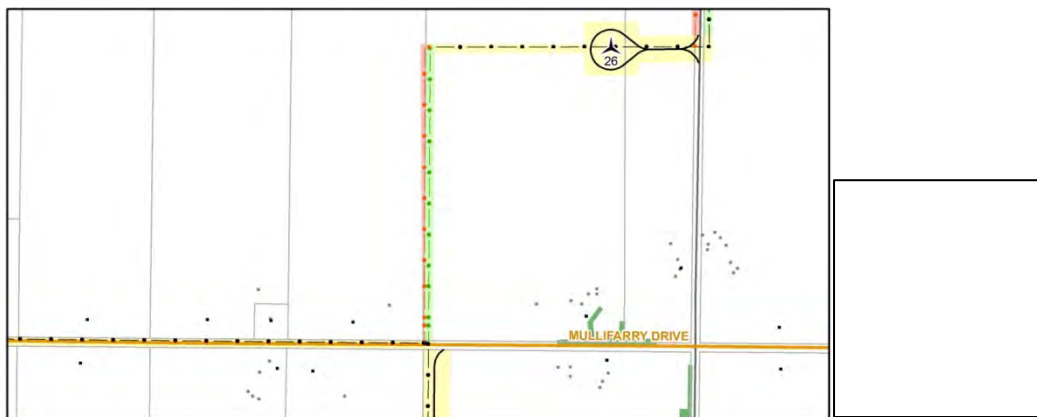
MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### 3.8 Design Change 8 – Relocated Collector Cable to Turbine 26

#### Description of Change

The collector cable from Turbine 26 has been moved approximately 9-13 m to the east of the original proposed location.

Figure 3-8 below shows a screenshot of this design change.



**Figure 3-8: Design Change 8**

## **Rationale for Change**

In consultation with the affected landowner and the construction team, the layout was optimized to utilize private lands instead of the previous location proposed on the municipal right of way.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

## **Archaeological Assessment**

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

## **Natural Heritage**

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

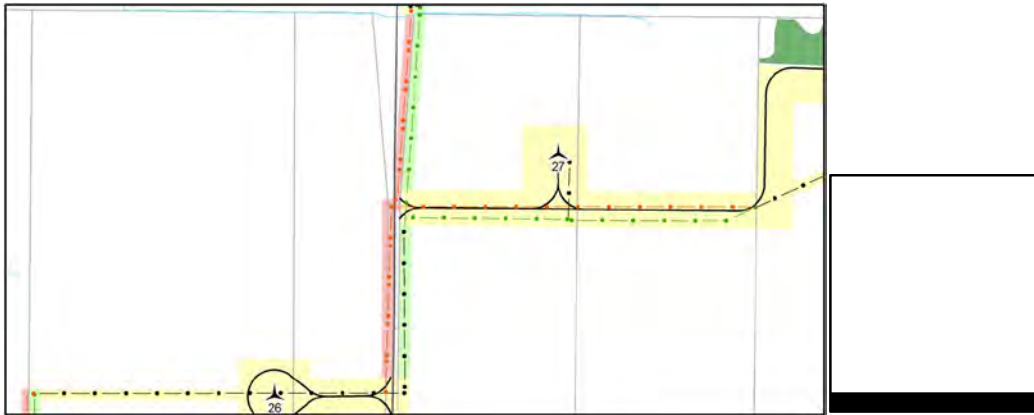
MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### **3.9 Design Change 9 – Relocated Collector Cable to Turbine 27**

#### **Description of Change**

The collector cable from Turbine 27 has been moved approximately 15- 32 m to the east of the original proposed location.

Figure 3-9 below shows a screenshot of this design change.



**Figure 3-9: Design Change 9**

### **Rationale for Change**

In consultation with the affected landowner and the construction team, the layout was optimized to utilize private lands instead of the previous location proposed on the municipal right of way.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

### **Archaeological Assessment**

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

### **Natural Heritage**

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed

mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### 3.10 Design Change 10 – Partial Collector Cable to Turbine 8 Relocated

#### Description of Change

Part of the collector cable for to Turbine 8 has been moved approximately 30 m west of the original proposed location.

Figure 3-10 below shows a screenshot of this design change.

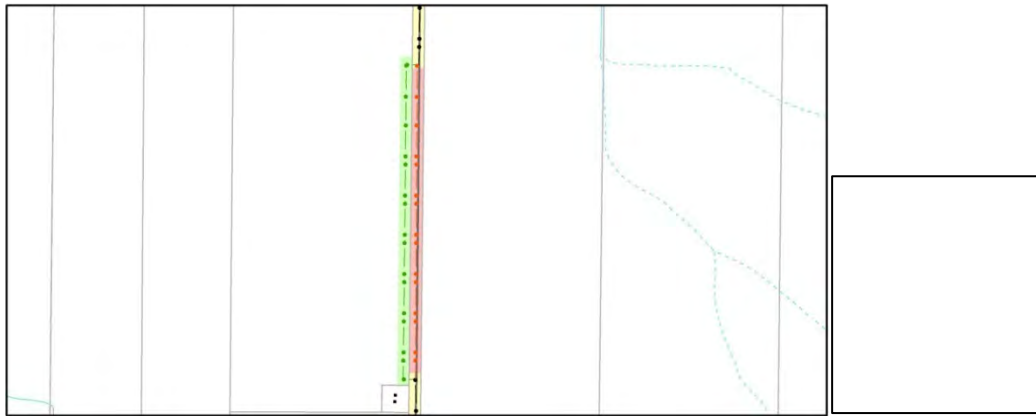


Figure 3-10: Design Change 10

#### Rationale for Change

In consultation with the affected landowner and the construction team, the layout was optimized to locate part of the collector cable to Turbine 8 on private lands instead of the previous location proposed on the municipal right of way.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

#### Archaeological Assessment

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

### Natural Heritage

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### 3.11 Design Change 11 – Partial Collector Cable from Turbine 4 Relocated South

#### Description of Change

The collector cable from Turbine 4 has been re-located approximately 150 m south of the original proposed location. The cable will run approximately 586 m west in this position along Cuddy Drive.

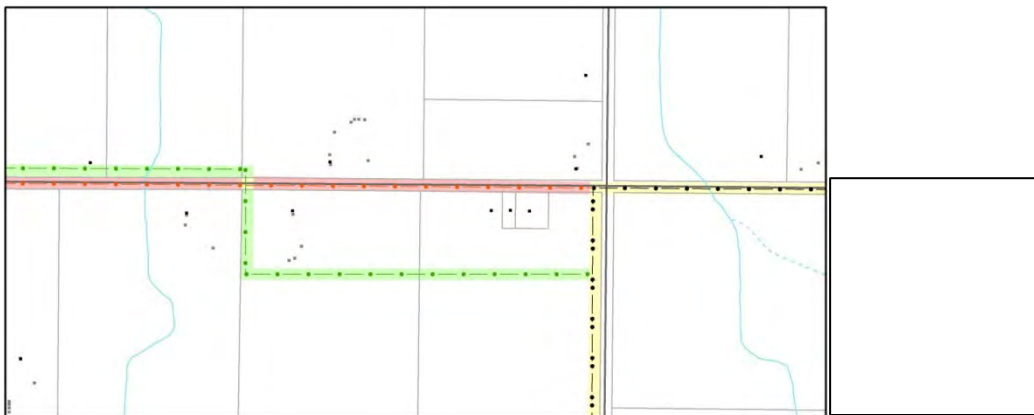


Figure 3-11: Design Change 11

## **Rationale for Change**

In consultation with the affected landowners and the construction team, the layout was optimized to locate part of the collector cable from Turbine 4 on private lands instead of the previous location proposed on the municipal right of way.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

## **Archaeological Assessment**

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

## **Natural Heritage**

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### **3.12 Design Change 12 – Partial Collector Cable from Turbine 4 Relocated North**

#### **Description of Change**

Part of the collector cable from Turbine 4 has been relocated approximately 25 m to the north of the original proposed location and runs approximately 1.2 km to the west along Cuddy Road.

Figure 3 -12 below shows a screenshot of this design change.



**Figure 3-12: Design Change 12**

### **Rationale for Change**

In consultation with the affected landowners and the construction team, the layout was optimized to locate part of the collector cable from Turbine 4 on private lands instead of the previous location proposed on the municipal right of way.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

### **Archaeological Assessment**

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

## Natural Heritage

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### 3.13 Design Change 13 –T2 Moved 62 m East

#### Description of Change

Turbine 2 and its associated road has been moved 62 m east of the location presented in the original proposed layout.

Figure 3-13 below shows a screenshot of this design change.



**Figure 3-13: Design Change 13**

#### Rationale for Change

This design change was made to address the concern of a landowner located directly west of the turbine location.

Specific to the Noise Impact Assessment (NIA), this change does not impact the noise compliance of turbine 2. All noise levels for non-participating points of reception remain below 40 dBA as identified by the NIA, which is available as part of the final REA submission package.



## Archaeological Assessment

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

## Natural Heritage

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### 3.14 Design Change 14 – Relocation of Transmission Line

Subsequent to presenting the following proposed change to the Public and in consultation with Hydro One, the affected landowner and the engineering team, the proposed design change has been revoked. The originally proposed transmission line routing within existing rights-of-way will be used in the area described below.

#### Description of Change

The transmission line has been relocated approximately 50 m east of the original proposed location. This section runs approximately 1 km to the north along the private easement then returns to municipal right-of-way.

Figure 3-14 below shows a screenshot of this design change.



**Figure 3-14: Design Change 14**

### **Rationale for Change**

In consultation with the affected landowners and the construction team, the layout was optimized to use private easements where possible.

Specific to the Noise Impact Assessment (NIA), this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

### **Archaeological Assessment**

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

### **Natural Heritage**

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed

mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### 3.15 Design Change 15- Relocation of the Parkhill Substation, Re-configuration of Associated Transmission Lines and Access Road

#### Description of Change

The Parkhill substation has been relocated approximately 135 m west and approximately 520 m north of the original proposed location. The change in the substation location has resulted in the reconfiguration of the transmission line, which now runs approximately 208 m west and approximately 700 m north of the original location.

Figure 3-15 below shows a screenshot of this design change.



Figure 3-15: Design Change 15

#### Rationale for Change

In consultation with the construction team and the Ausable Bayfield Conservation Authority (ABCA), the substation was re-located to a more favourable position.

Specific to the Noise Impact Assessment (NIA), this change does not impact the noise compliance of the Parkhill Substation. All noise levels for non-participating points of reception remain below 40 dBA as identified by the NIA, which is available as part of the final REA submission package.

## **Archaeological Assessment**

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

## **Natural Heritage**

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

### **3.16 Design Change 16- Addition of approximately 5 acres to the Project substation and Operations and Maintenance (O&M) area**

#### **Description of Change**

An additional 5 acres of land has been added to the proposed substation and O& M area. The additional land is added directly south of the previously proposed substation and O&M location.

Figure 3-15 below shows a screenshot of this design change.



**Figure 3-16: Design Change 16**

### **Rationale for Change**

In consultation with the construction team it was agreed that a larger area should be permitted as a contingency to ensure sufficient area for the construction of the Project substation and O&M building.

Specific to the Noise Impact Assessment (NIA), because the proposed location of the transformer within this parcel has not changed, this change does not have a negative effect on points of reception identified by the NIA, which is available as part of the final REA submission package.

### **Archaeological Assessment**

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

### **Natural Heritage**

A Natural Heritage review of the natural features within 120 m of the Project design change identified was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

#### **4 STANDARDIZATION OF TURBINE DISTURBANCE AREAS**

For all turbine locations, disturbance areas for construction purposes were standardized at an area of 121 m x 121 m (14,641 m<sup>2</sup>). Previously, disturbance areas ranged from 9,100 m<sup>2</sup> to 17,400 m<sup>2</sup>. This change was done in consultation with the construction team. The additional area is minimal in comparison to the original proposed disturbance area design and will be reduced following construction in accordance with the details outlined in the Construction Plan Report.

Specific to the noise impact assessment, this change does not have a negative effect on points of reception identified by the Noise Impact Assessment, which is available as part of the final REA submission package.

##### **Archaeological Assessment**

A Stage 2 archaeological study of the Project design change was conducted [5] and concluded that no negative impact on archaeological resources is anticipated as a result of this change. A copy of this report will be included as part of the complete REA Application Package.

MTCS had previously issued a written letter [4] informing the MOE that the MTCS was satisfied with the archaeological recommendations made during Stage 1 and Stage 2 archaeological assessments concerning those archaeological sites impacted by the original Project design (see Appendix B). Subsequent to the above-described Project design change and per MOE requirements [3], MTCS was duly notified of the design change and the details thereof. Pursuant to follow-up Stage 2 archaeological assessment and reporting to said regulatory body and its review of the additional reporting provided, the MTCS has determined that the Project design change has been addressed by this additional Stage 2 archaeological assessment.

##### **Natural Heritage**

A Natural Heritage review of the natural features within 120 m of the Project design change was conducted and concluded that no negative impact on natural heritage features is anticipated as a result of this change.

MNR had previously issued a written letter confirming that the Natural Heritage Features within 120 m of the original Project Location have been adequately studied and effectively addressed through proposed mitigation measures [6] (see Appendix B). Subsequent to the above-described Project design change and as per MOE requirements [3], MNR has been duly notified of the design change and the details thereof. Pursuant to follow-up discussions with the said regulatory body and its review of the documentation

provided, the MNR has determined that the Project design change is not expected to alter the conclusions drawn in the previously conducted Natural Heritage Assessment [7].

## **5      NOISE IMPACT ASESSMENT**

Subsequent to the submission of the Noise Impact Assessment dated January 2012, provided for public review and consultation, NextEra has received updated technical specifications for the GE 1.6-100 turbine with a lower predicted sound output level. The noise model was re-run using the updated specifications, which can be found in Appendix E of the Noise Impact Assessment (July 2012).

Since the Manufacturer’s Guaranteed sound levels are lower this change does not have a negative effect on points of reception identified by the Noise Impact Assessment, which is available as part of the final REA submission package.

## 6      **CONSULTATIONS**

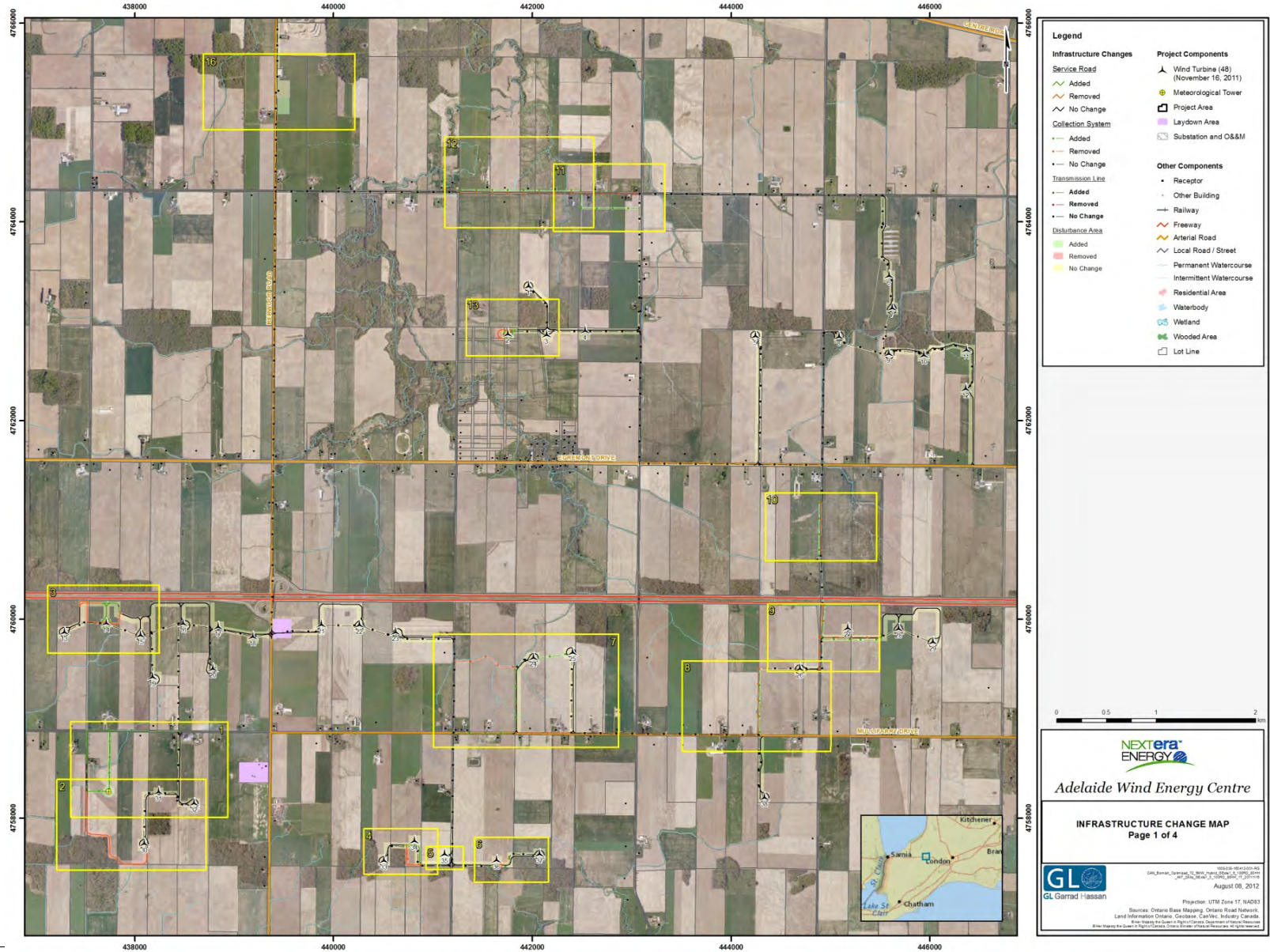
Pursuant to the above-described Project design changes and in accordance with MOE guidelines [3], the Proponent took the necessary measures to notify the public, municipalities, and Aboriginal communities of these changes. The proposed design changes were presented to the stakeholders as part of the final public meeting. In addition to this reports being made available for public review, presentation boards (36” x 48”) were used to highlight the design changes and bring them to the attention of the public. Subject matter experts were made available at the meeting to address any questions or concerns stakeholders may have regarding the Project including the potential impact of the changes presented herein. Any comments received, along with a copy of the presentation material, will be included in the consultation report as part of the complete REA application submission.



## 7 REFERENCES

- [1] Ontario Regulation 359/09, made under the *Environmental Protection Act*, Renewable Energy Approvals under Part 1.0 of the Act.
- [2] Ontario Regulation 521/10, made under the *Environmental Protection Act*, Renewable Energy Approvals under Part 1.0 of the Act.
- [3] Draft Technical Guide to Renewable Energy Approvals, Ontario Ministry of the Environment, July 2012.
- [4] Ministry of Tourism and Culture Letter, April 2012.
- [5] Stage 2 Archaeological Assessments, Golder Associates, 2012.
- [6] Ministry of Natural Resources Letter, April 2012.
- [7] Adelaide Wind Energy Centre, Natural Heritage Assessment, Natural Resources Solutions Inc., 2012.

## **APPENDIX A ORIGINAL VS. MODIFIED PROJECT DESIGN MAPS**





Legend	
<b>Infrastructure Changes</b>	<b>Project Components</b>
<b>Service Road</b>	▲ Wind Turbine (48) (November 16, 2011)
— Added	● Meteorological Tower
— Removed	■ Project Area
— No Change	■ Laydown Area
<b>Collection System</b>	■ Substation and O&M
— Added	
— Removed	
— No Change	
<b>Transmission Line</b>	<b>Other Components</b>
— Added	● Receptor
— Removed	■ Other Building
— No Change	— Railway
<b>Disturbance Area</b>	— Freeway
■ Added	— Arterial Road
■ Removed	— Local Road / Street
■ No Change	— Permanent Watercourse
	— Intermittent Watercourse
	■ Residential Area
	■ Waterbody
	■ Wetland
	■ Wooded Area
	□ Lot Line

0 0.5 1 2 km

**NEXTERA ENERGY**

Adelaide Wind Energy Centre

**INFRASTRUCTURE CHANGE MAP**  
Page 2 of 4

GL Garrad Hassan

Projection: UTM Zone 17, NAD83  
Sources: Ontario Base Mapping, Ontario Road Network, Land Information Ontario, Geomatics Canada, Industry Canada  
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August 08, 2012

