APPENDIX H – PROPERTY SETBACK ASSESSMENT

DNV·GL

NATION RISE WIND FARM

Property Setback Assessment Report

Nation Rise Wind Farm Limited Partnership

Document No.: 10021027-CAMO-R-07
Issue: B**, Status:** FINAL
Date: 13 July 2017

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A	22 March 2017	Draft report	I. Evans	F. Langelier G. Constantin	M. Roberge
B	13 July 2017	Updates to report for final submission	I. Evans	F. Langelier G. Constantin	M. Roberge

Table of contents

Appendices

List of tables

List of figures

List of abbreviations

Abbreviation	Meaning
DNV GL	GL Garrad Hassan Canada Inc.
EPA	*Environmental Protection Act* (EPA)
O. Reg	Ontario Regulation
MOECC	Ministry of the Environment and Climate Change
PSA	Property Setback Assessment
REA	Renewable Energy Approval

1 INTRODUCTION

1.1 Purpose

DNV GL was retained by Nation Rise Wind Farm Limited Partnership (hereafter referred to as the "Proponent") to prepare a Property Setback Assessment (PSA) report for the Nation Rise Wind Farm (the "Project") based on the Ontario Ministry of Environment and Climate Change's (MOECC) Technical Guide to Renewable Energy Approvals [1].

This report presents 22 of the 33 turbines locations being permitted that are less than the prescribed distance from a parcel boundary, as defined in *Ontario Regulation* (*O. Reg.*) *359/09* (Renewable Energy Approvals (REA) [2] under Part V.0.1 of the Ontario *Environmental Protection Act* (EPA)), as amended. Per Section 53(3) of *O. Reg. 359/09*, a PSA must be performed for each turbine in order to:

1. Demonstrate that the proposed location of the wind turbine will not result in adverse impacts on nearby business, infrastructure, properties or land use activities; and
2. Describe any preventive measures that are required to be implemented to address the possibility of any adverse impacts.

1.2 Project Description

The Project is located in eastern Ontario, within the Township of North Stormont, which is located within the United Counties of Stormont, Dundas and Glengarry, Ontario (Figure 1-1). More specifically, the Project is within the western portion of North Stormont and bounded to the south by the Township of South Stormont and bounded to the west by the boundary of the Township of North Dundas. The north portion of the Project is delimited by the municipality boundaries of Russell and The Nation. Courville Road and MacMillan Road are the east boundaries of the Project.

Project components will be mostly installed on privately-owned agricultural lots. Figures 1-2 through 1-5 are representative of the agricultural land use in the Project area. Most of the agricultural fields are planted annually with common crops (e.g. corn, soybeans and winter wheat) or are used as pasture lands. It is anticipated that the electrical collector lines will be partially sited within public road allowances to connect to the substation in the northern section of the Project area. There is no proposed transmission line for the Project.

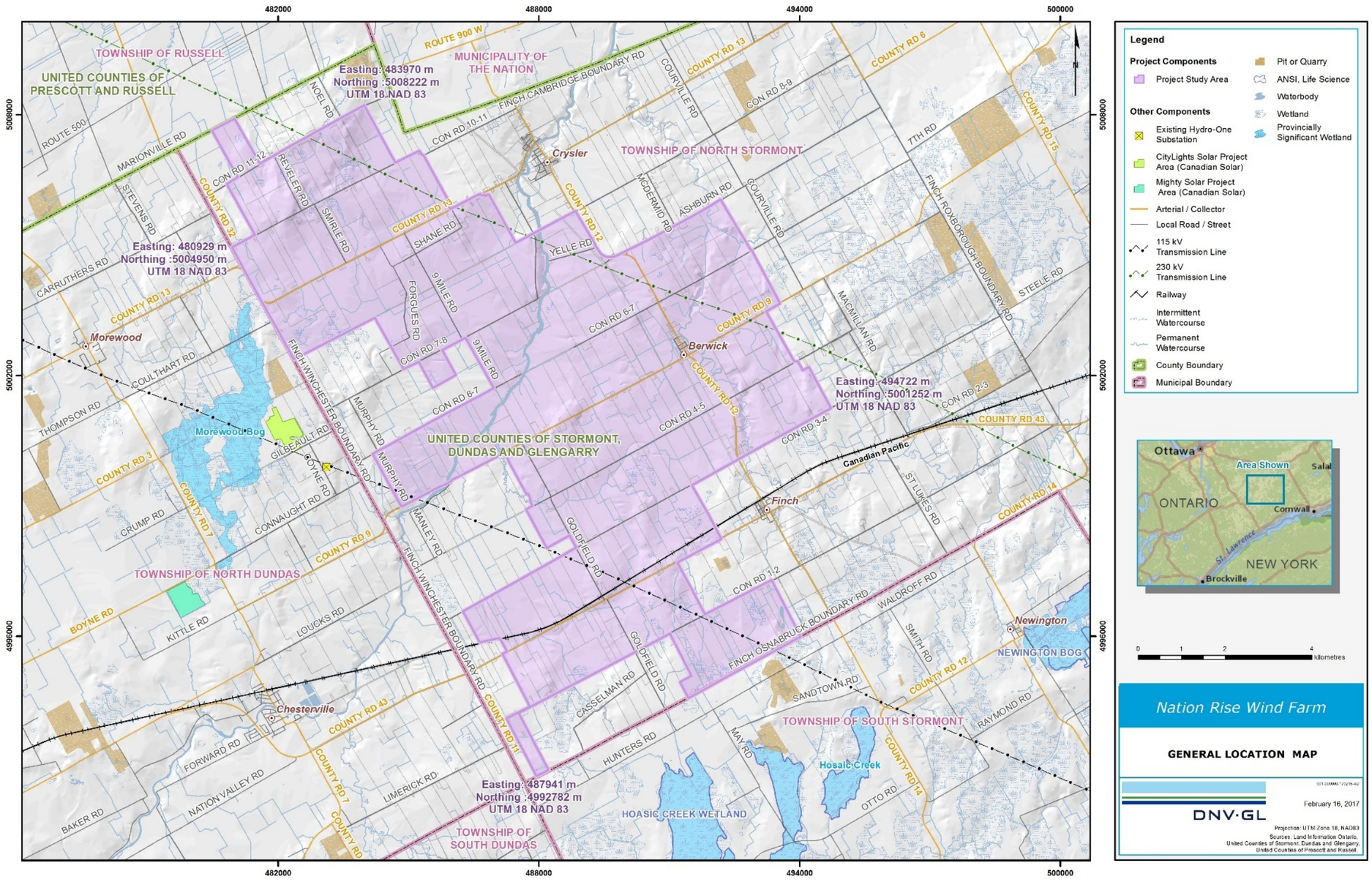

Figure 1-1: General Project Study Area

Figure 1-2: Corner of County Road 13 and Shane Road

Figure 1-3: Corner of Goldfield Road N. and Concession Road 5

Figure 1-4: Concession Road 7

Figure 1-5: Concession Road 3-4

2 ANALYSIS

The property setback analysis will first identify setback thresholds as prescribed by *O. Reg. 359/09* to determine which turbines require assessment (Section 2.1). The relationships between the identified turbines and their neighbouring parcels will then be summarized (Section 2.2) to facilitate the assessment of potential impacts and identify necessary mitigation measures (Section 2.3).

2.1 Legislation

The prescribed setbacks from the property lines defined in *O. Reg. 359/09* Section 53 are summarized in Table 2-1.

Table 2-1: Summary of *O. Reg. 359/09* prescribed setbacks from property line boundaries

Section	Status of adjacent lot(s)	Setback
53 (2)(a)	Lot owner has proposed to engage in the renewable energy project in respect of the wind turbine.	0 m
53 (2)(b)	Owner has entered an agreement with the person mentioned in clause (2)(a) to permit the wind turbine to be located closer than the distance specified in clause (1)(b) (i.e. hub height).	
53 (1)(b)	Owner has **not** entered an agreement with the person mentioned in clause (2)(a) to permit the wind turbine to be located closer than the distance specified in clause (1)(b) (i.e. hub height), **and** no property setback assessment has been conducted for the lot.	Hub height (i.e. the height of the wind turbine, excluding the length of any blades)
53 (3)(b)	Owner has **not** entered an agreement with the person mentioned in clause (2)(a) to permit the wind turbine to be located closer than the distance specified in clause (1)(b) (i.e. hub height), **but** a property setback assessment has been conducted for the lot; (i) Demonstrating that the proposed location of the wind turbine will not result in adverse impacts on nearby business, infrastructure, properties or land use activities; and (ii) Describing any preventative measures that are required to be implemented to address the possibility of any adverse impacts.	Blade length + 10 m

The present analysis focuses solely on potential impacts related to property setbacks. As presented in Table 2-1, in absence of the Proponent owning the adjacent land or an agreement with the adjacent landowner, the minimum setback from property lines is equal to the hub height. An exception to this is if the PSA shows that such a placement will not result in adverse impacts to nearby businesses, infrastructures, properties and land uses. In such instances, the setback may be reduced to the blade length + 10 m.

The following evaluation of impacts therefore considers built structures and land use in all lots that are not owned by the Proponent or subject to a landowner agreement, but that are adjacent to turbines positioned less than hub height and greater than blade length + 10 m from a property line. Applicable mitigation measures are then presented and considered in the evaluation of any residual impacts.

2.2 Assessed Turbines

At the time of this report, the wind turbine technology has not been confirmed; it is likely to be a 3.0 to 3.6 MW turbine. For the purposes of reference, the Vestas V136-3.45 MW turbine will be considered, although an acoustically equivalent wind turbine may be chosen. The technical specifications of the V136-3.45 MW relevant to this PSA are the hub height of 132 m, the rotor diameter of 136 m, and the blade length of 68 m.

This PSA uses 132 m (i.e. the hub height of the V136) for the setback prescribed by *O. Reg. 359/09* clause 53 (1)(b). While the minimum blade + 10 m setback requirement identified by clause 53 (3)(b) is 78 m (i.e. 68 m + 10 m), this PSA uses 81 m as a more conservative value. Turbines situated less than 81 m from the nearest abutting parcel require written agreement from the owner of the abutting parcel.

Using this 81 m setback value, DNV GL identified six turbines requiring a written agreement from the abutting-parcel owner (Table 2-2). The Proponent will accordingly obtain all necessary written agreements for these parcels. As per 53 (2)(b), a PSA is not required for these parcels.

This PSA includes the 23 turbines with minimum setbacks between 81 m and 132 m (Appendix A).

Table 2-2: Turbines requiring a written agreement from abutting parcel owners as per O. Reg. 359/09 53 (2)(b)

Turbine	Host Parcel PIN	Turbine Coordinates (UTM18, NAD 83)		Nearest Abutting Parcel PIN	Closest Point Coordinates (UTM18, NAD 83)		Distance to Abutting Parcel (m)
		Easting (m)	Northing (m)		Easting (m)	Northing (m)	
2	601000059	480992.0	5007313.0	601000055	480972.9	5007301.8	22.1
10	601010059	483097.0	5003468.0	601010062	483119.5	5003480.6	25.8
11	601010062	483354.0	5003162.0	601010059	483310.7	5003137.8	49.6
25	601060263	488426.0	5001668.0	601060261	488407.4	5001657.8	21.2
41	601050112	491182.0	5000208.0	601050111	491143.2	5000187.0	44.1
44	601020145	487121.0	4996303.0	601020119	487082.9	4996282.3	43.4

2.3 Potential Impacts and Mitigation Measures

Table 2-3 summarizes potential impacts and proposed mitigation measures for the Project. The table presented in Appendix A provides details on all turbines included in the property setback assessment and their neighbouring parcels. The figures are correspondingly presented in Appendix B.

Table 2-3: Description of potential impacts and mitigation measures

Potential Incident	Description	Potential Impact	Mitigation Measures	Residual Impact
Spill of hazardous material	Spills, although unlikely, may occur due to an accident or malfunction during construction activities, operation, and decommissioning. Contamination of soil, if any, would mostly be limited to the immediate area surrounding of the spill and promptly addressed. However, it is possible, though highly unlikely, that hazardous materials may affect adjacent lots.	Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Spill incidents, if any, will be minimized by ensuring that industry regulations are properly followed. Refuelling of construction equipment will only take place at crane pads or designated areas, well away from any surface or ground water. Hazardous materials will be stored off site or utilizing secondary containment. Emergency spill kits will be maintained on the Project site, to be used if any spills of hazardous material should occur. Operational control procedure for storage and handling of hazardous materials will be implemented and all construction staff will be trained on proper implementation of this procedure. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented. Routine inspections will be carried out throughout the Project to verify for run-off and erosion.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
Ice throw	The formation of ice on turbine blades can increase downtime and produce ice clusters that theoretically could fall or be projected from the blades. Ice throw is however a very low-probability event that requires specific meteorological conditions. Formation of ice is a very low-probability event that requires specific meteorological conditions. In the event of ice formation, if any, assuming the proper ice event procedure is implemented and maintained throughout the life of the wind farm, the control system (turbine or SCADA) will detect ice formation on the rotor and stop the affected turbine. In this case, ice falls would be limited to the area directly underneath the turbine and in the immediate vicinity. In the present case, no damages to crops or farm equipment are expected as icing events occur in winter, when	Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures Safety incident on roads	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted. The turbine meets the *O. Reg. 359/09* setback from public road right-of-way (blade + 10 m).	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in the vicinity of the property lines is expected.**

Potential Incident	Description	Potential Impact	Mitigation Measures	Residual Impact
	fields are not in use. Additionally, there is no dwelling or other structure located in the immediate vicinity of a turbine, with the exception of the road near Turbine 1. Roads are not subject to damages due to ice throws.			
Turbine failure	Events such as blade fall and tower collapse, although extremely unlikely, could potentially cause safety issues or damage to farmland (loss of crops and soil compaction), farming equipment and surrounding structures. Such events have occurred on extremely rare occasions. Turbines are designed and installed following strict specifications to allow for safe and long-term operation in a specific physical environment. There is no dwelling or other structure located in the immediate vicinity of a turbine, with the exception of a local road near Turbine 1. Damages to farmland (loss of crops or soil compaction) or roads, if any, would be easily remediated. Given that the likelihood of turbine failure is extremely rare, the probability of damage is considered negligible.	Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures Damage to roads Safety incident on roads	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted. The turbine meets the *O. Reg. 359/09* setback from public road right-of-way (blade + 10 m).	**No adverse impact**. Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in the vicinity of the property lines is expected.**

3 CONCLUSIONS

As per *O. Reg. 359/09,* DNV GL has undertaken a PSA for each turbine within the Project layout that falls within the prescribed distance from a parcel boundary (i.e. positioned less than the hub height and greater than the blade length + 10 m). A total of 23 of the 33 turbines were identified as being located within this prescribed distance and thus, subject to a PSA.

The assessment determined that the potential adverse impacts to business, infrastructure, properties or land use of adjacent lots are highly unlikely with the implementation of the safety procedures and other mitigation measures proposed in this document.

Lastly, DNV GL notes that the REA setback of 550 m from non-participating dwellings and other Points of Reception has been applied to all turbines which further reduces the already low likelihood that any potentially impacted land uses will be subject to adverse impacts by the proposed turbine locations.

4 REFERENCES

[1] Technical Guide to Renewable Energy Approvals, Ontario Ministry of the Environment, 2017.

[2] Ontario Regulation 359/09, made under the Environmental Protection Act, Renewable Energy Approvals under Part 1.0 of the Act.

APPENDIX A – TURBINES INCLUDED IN THE PROPERTY SETBACK ASSESSMENT AND THEIR NEIGHBORING PARCELS

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
1	B-1	480621.0	5007611.0	**601000055**	**601000196**	480577.6	5007693.3	93.1	Road right-of-way		**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented. The turbine meets the *O. Reg. 359/09* setback from public road right-of-way (blade + 10 m).	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Safety incident on roads	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation. The turbine meets the *O. Reg. 359/09* setback from public road right-of-way (blade + 10 m).	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to the road is expected.**
											Turbine Failure: Damage to road Safety incident on roads	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to the road is expected.**

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
1	B-1	480621.0	5007611.0	**601000055**	**690140108**	480568.2	5007711.1	113.2	Agriculture	Transmission line tower (481259E, 5008157N; UTM18 NAD83) at approximately 835 m from T1.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
1	B-1	480621.0	5007611.0	**601000055**	**601000052**	480519.4	5007555.5	115.8	Agriculture		**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
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Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
5	B-2	484160.0	5007567.0	**601070110**	**601070111**	484201.4	5007489.6	87.8	Agriculture	Watercourse within 132 m from T4	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
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											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.
7	B-3	484187.0	5005760.0	**601000191**	**601000194**	484275.7	5005809.2	101.5	Agriculture	Barn with solar panels (484765E, 5005542N; UTM18 NAD83) at approximately 600 m from T7.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
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Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
10	B-4	483097.0	5003468.0	**601010059**	**601010164**	483058.2	5003540.3	82.1	Agriculture	Dwelling (482206E, 5003840N; UTM18 NAD83) at 963 m from T10.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
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12	B-5	484260.0	5004075.0	**601010069**	**601010071**	484299.7	5003997.8	86.8	Agriculture		**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
12	B-5	484260.0	5004075.0	**601010069**	**601010067**	484181.9	5004032.4	88.9	Agriculture	Dwelling (483295mE, 5004363mN; UTM18 NAD83) at 1007 m from T28.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
16	B-6	485705.8	5001932.4	**601010117**	**601010118**	485762.0	5001831.2	115.7	Agriculture	Dwelling (485915E, 5001227N; UTM18 NAD83 at 736 m from T16; Watercourse within 132 m from T16.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
20	B-7	486784.8	5004255.0	**601060376**	**601060378**	486862.7	5004298.5	89.3	Agriculture		**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.
23	B-8	487073.0	5002532.0	**601060340**	**601060345**	487178.8	5002591.4	121.3	Agriculture		**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
27	B-9	490721.0	5004544.0	**601080177**	**601080178**	490761.8	5004466.7	87.4	Agriculture	Barn (490795mE, 5004161mN; UTM18 Nad83) approximately 390 m from T27. Wooded area within 132 m of T27.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
28	B-10	492449.0	5003929.0	**601090101**	**601090100**	492490.8	5003852.4	87.3	Agriculture and Equestrian Operation	Dwelling (4927223E, 5003428N; UTM18 NAD83) at 569 m from T28.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring and even lower probability of the ice throws occurring within the distance of the surrounding structures, the probability of a safety incident or damaging event from ice throws is considered negligible. Furthermore, the likelihood of horses being outside and within the vicinity of the turbine during an icing event is also considered to be very small. Lastly, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur**.**
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
28	B-10	492449.0	5003929.0	**601090101**	**601090095**	492420.0	5003814.0	118.6	Agriculture and Equestrian Operation	Transmission line tower (492380E, 5003456N; UTM18 NAD83) at approximately 475 m from T28.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring and even lower probability of the ice throws occurring within the distance of the surrounding structures, the probability of a safety incident or damaging event from ice throws is considered negligible. Furthermore, the likelihood of horses being outside and within the vicinity of the turbine during an icing event is also considered to be very small. Lastly, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
29	B-11	492423.0	5005472.0	**601080254**	**601080191**	492496.8	5005516.3	86.1	Agriculture	Dwelling (492618E, 5006210N; UTM18 NAD83) at 762 m from T29.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
29	B-11	492423.0	5005472.0	**601080254**	**601080190**	492466.3	5005392.8	90.2	Agriculture		**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.
32	B-12	488724.0	5000105.0	**601050062**	**601050064**	488817.5	5000155.5	106.2	Agriculture		**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
35	B-13	490094.0	5000515.0	**601050072**	**601050074**	490184.0	5000565.3	103.1	Agriculture	Dwelling (489886E, 5001575N; UTM18 NAD83) at 1080 m from T35.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
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38	B-14	490750.0	5001244.0	**601050078**	**601050077**	490660.5	5001193.5	102.8	Agriculture	Dwelling (490287E, 5001728N; UTM18 NAD83) at 669 m from T38; Watercourse within 132 m from T38.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
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Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
41	B-15	491182.0	5000208.0	**601050112**	**601050113**	491241.2	5000095.6	127.1	Agriculture		**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.
43	B-16	494279.0	5001837.0	**601090204**	**601090182**	494376.9	5001889.9	111.3	Agriculture	Transmission line tower (494634E, 5002559N; UTM18 NAD83) at approximately 800 m from T43.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
43	B-16	494279.0	5001837.0	**601090204**	**601090184**	494404.5	5001838.9	125.5	Agriculture	Dwelling (494657mE, 5001425mN; UTM18 NAD83) at 559 m from T43	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impact.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
44	B-17	487121.0	4996303.0	**601020145**	**601020114**	487207.8	4996350.3	98.8	Agriculture	Watercourse within 132 m of T44.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
46	B-18	487994.0	4993166.0	**601030124**	**601030119**	488068.9	4993205.1	84.5	Agriculture	Wooded area within 132 m of T46.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.
47	B-19	490614.5	4998233.7	**601050138**	**601050137**	490501.6	4998172.1	128.6	Agriculture		**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
48	B-20	491382.0	4997145.0	**601040059**	**601040062**	491456.9	4997185.8	85.3	Agriculture		**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.
48	B-20	491382.0	4997145.0	**601040059**	**601040060**	491425.0	4997058.9	96.2	Agriculture	Wooded area within 132 km from T48.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
52	B-21	488444.0	4995522.0	**601030077**	**601030083**	488538.0	4995543.5	96.4	Agriculture	Watercourse within 132 m of T52.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.
54	B-22	488115.0	4998329.0	**601020081**	**601020085**	488040.6	4998288.6	84.7	Agriculture	Transmission line tower (487969E, 4998093N; UTM18 NAD83) at approximately 278 m from T54; Barn (488215E, 4997702N; UTM18 NAD83) at approximately 628 m from T54.	**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, let alone at the distance of the surrounding structures, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment Damage to surrounding structures	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur. **Given the low probability of the event occurring, in addition to the mitigation measures that will be carried out, no adverse impact to any structure in vicinity or the property line is expected.**
57	B-23	492803	4996220	**601040158**	**601040157**	492695.1	4996163.0	122.0	Agriculture		**Spill of hazardous material**: Contamination of soil or water Transportation of hazardous material to adjacent lots via surface water, ground water, or wind-blown dust	Potential incidents will be minimized by ensuring that industry regulations are properly followed. An Emergency Response Plan will be prepared and implemented. A conceptual Stormwater, Erosion and Sediment Management Plan will be prepared and implemented.	**No adverse impacts**. The mitigation measures minimize the likelihood of hazardous materials being spilled. In the unlikely event of a spill, the Emergency Response Plan will allow onsite workers to minimize and address any impact of the spill.

Turbine ID	Figure (Appendix B)	Turbine Coordinates (UTM18, NAD 83)		Host Parcel PIN	Abutting Parcel PIN	Closest Point to turbine on abutting parcel - Coordinates (UTM18, NAD83)		Distance to Abutting Parcel (m)	Abutting Parcel Land Use and notable nearby structures		Potential Impact	Mitigation Measures	Residual Impact
		Easting (m)	Northing (m)			Easting (m)	Northing (m)		Land Use	List of all nearby structures			
											Ice Throw: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. The operator will identify the probability of an icing event and will implement the Emergency Response Plan as necessary in the event of ice formation.	**No adverse impacts.** Given the very low probability of ice throws occurring, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should ice throw occur.
											Turbine Failure: Damage to farmland (loss of crops, soil compaction) or farm equipment	An Emergency Response Plan will be prepared and implemented. Communication and information will be ensured through the operator's website where periodic updates, newsletters and contact phone numbers will be posted.	**No adverse impacts.** Given that the likelihood of turbine failure is extremely rare, the probability of a safety incident or damage is considered negligible. Furthermore, the implementation of the Emergency Response Plan will mitigate safety issues and/or damage should a turbine failure occur.

APPENDIX B – TURBINE MAPS

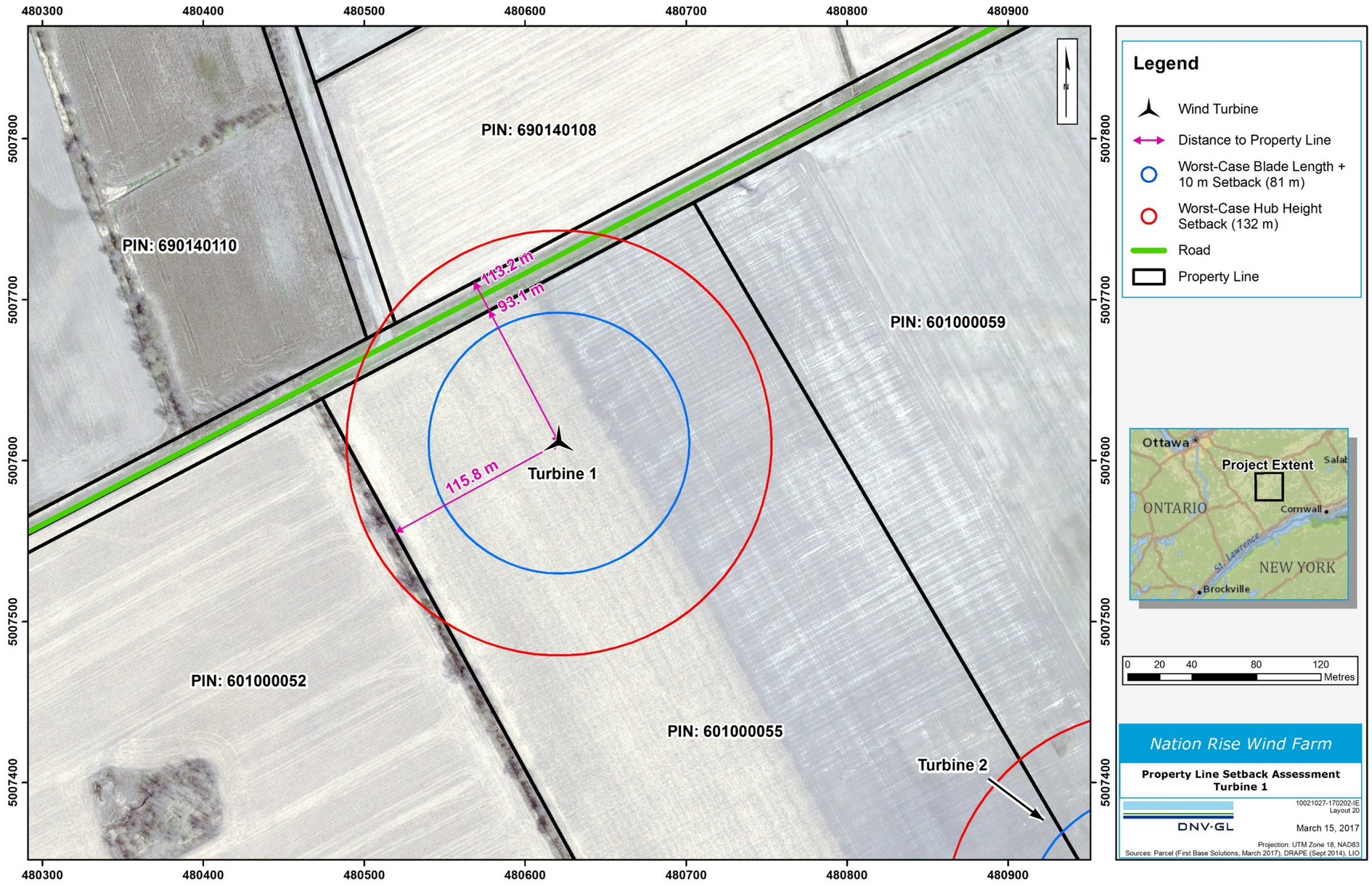

Figure B-1: Property Line Setback Assessment Map – Turbine 1

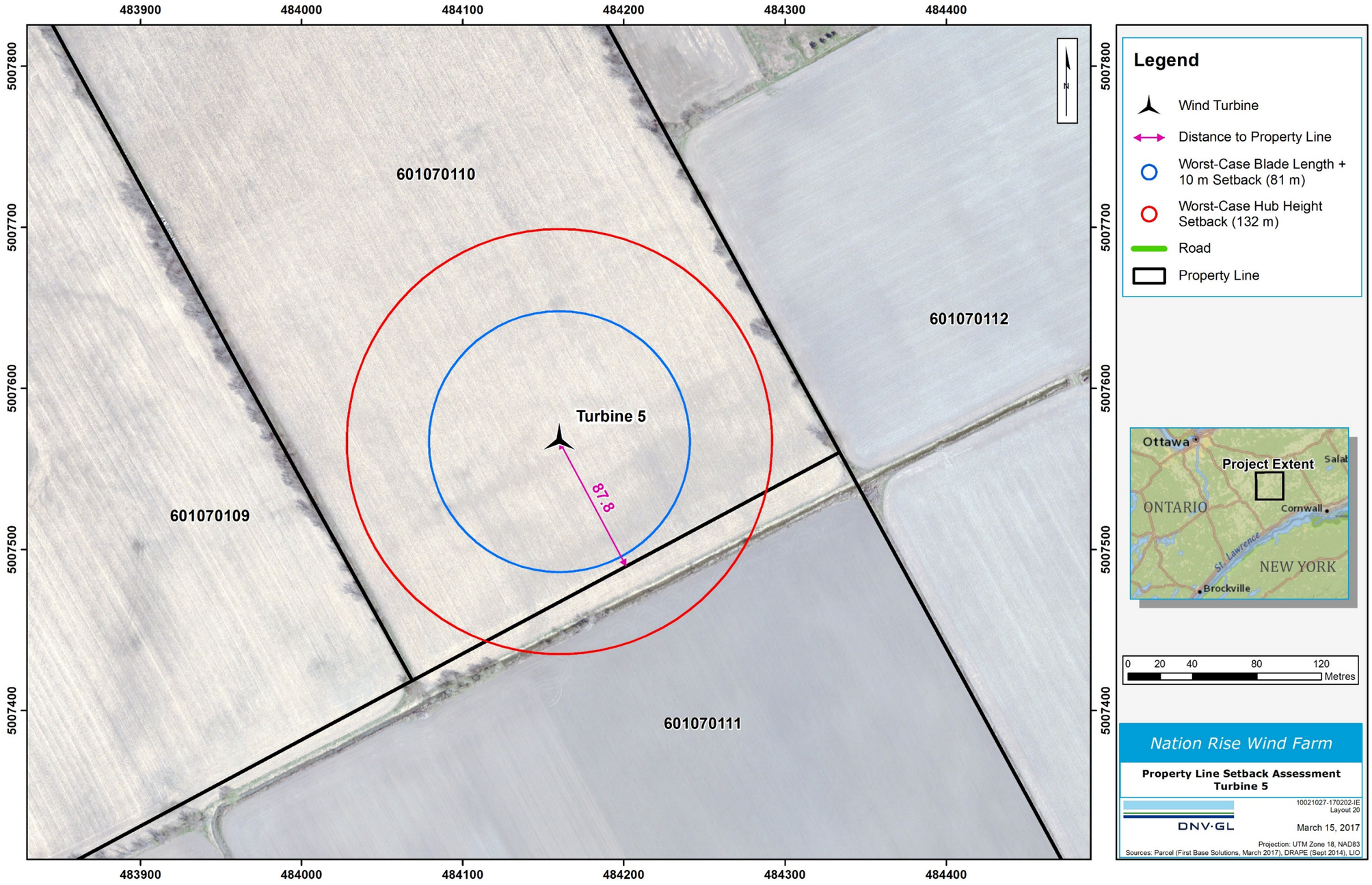

Figure B-2: Property Line Setback Assessment Map – Turbine 5

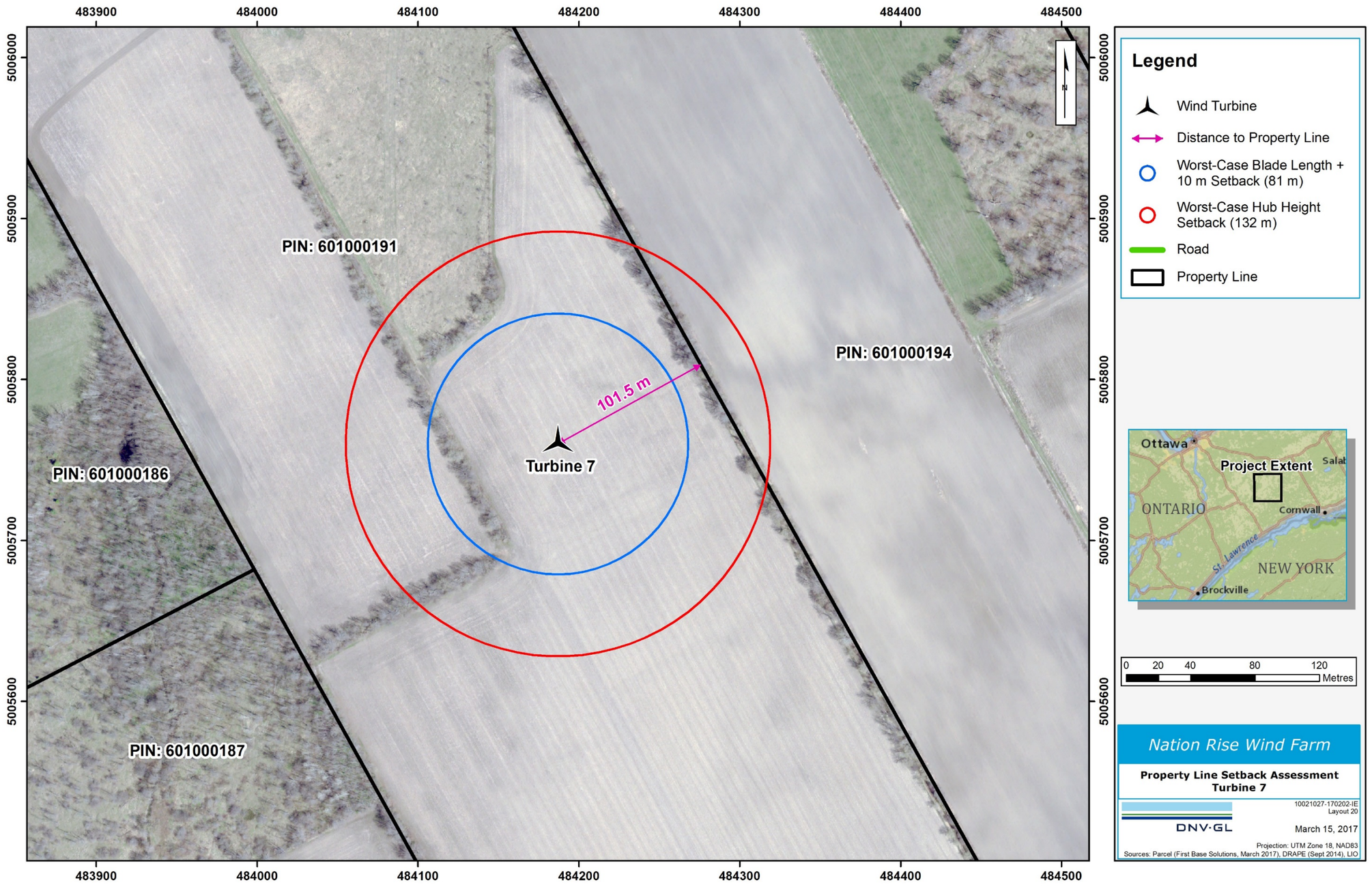

Figure B-3: Property Line Setback Assessment Map – Turbine 7

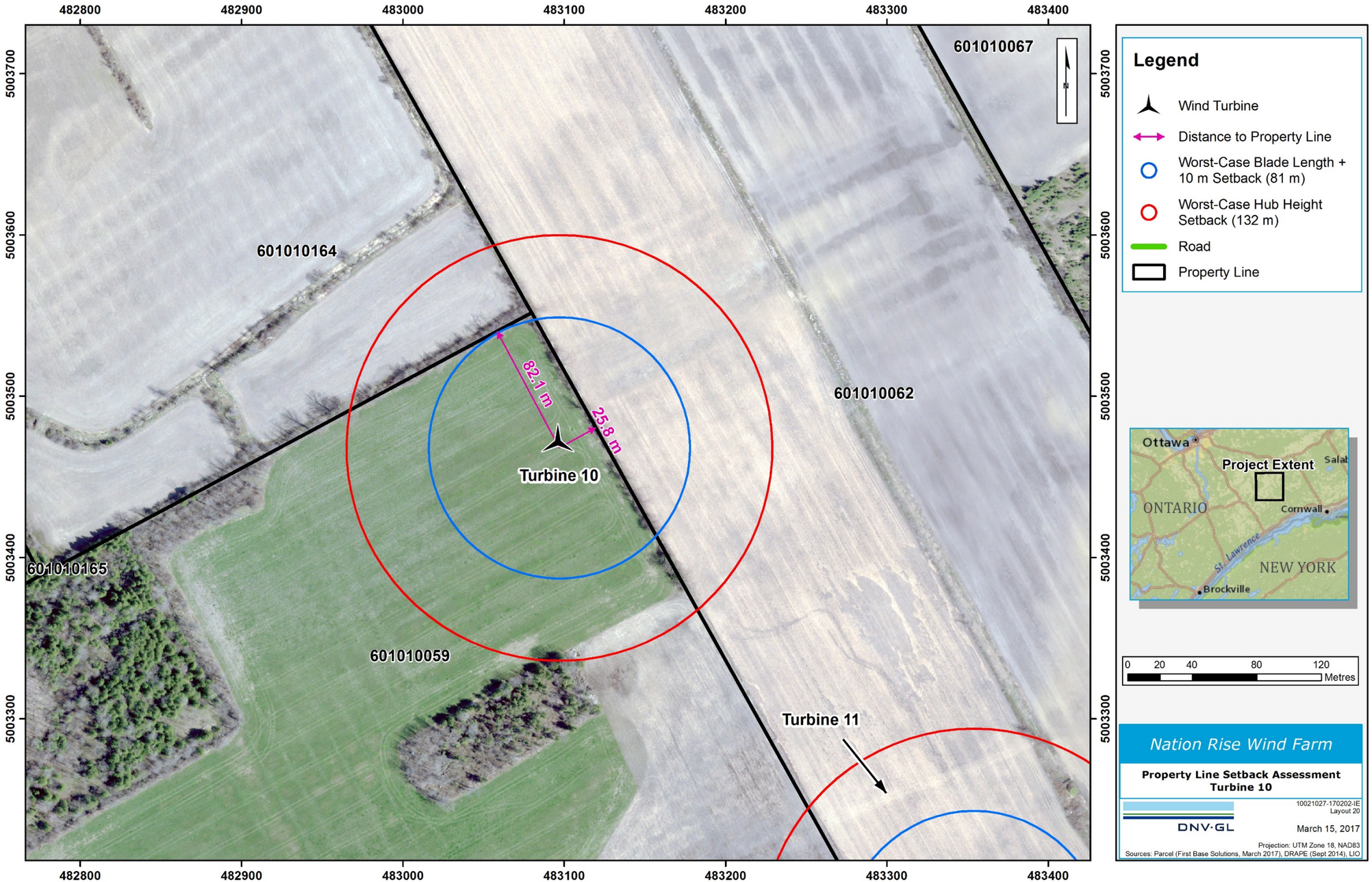

Figure B-4: Property Line Setback Assessment Map – Turbine 10

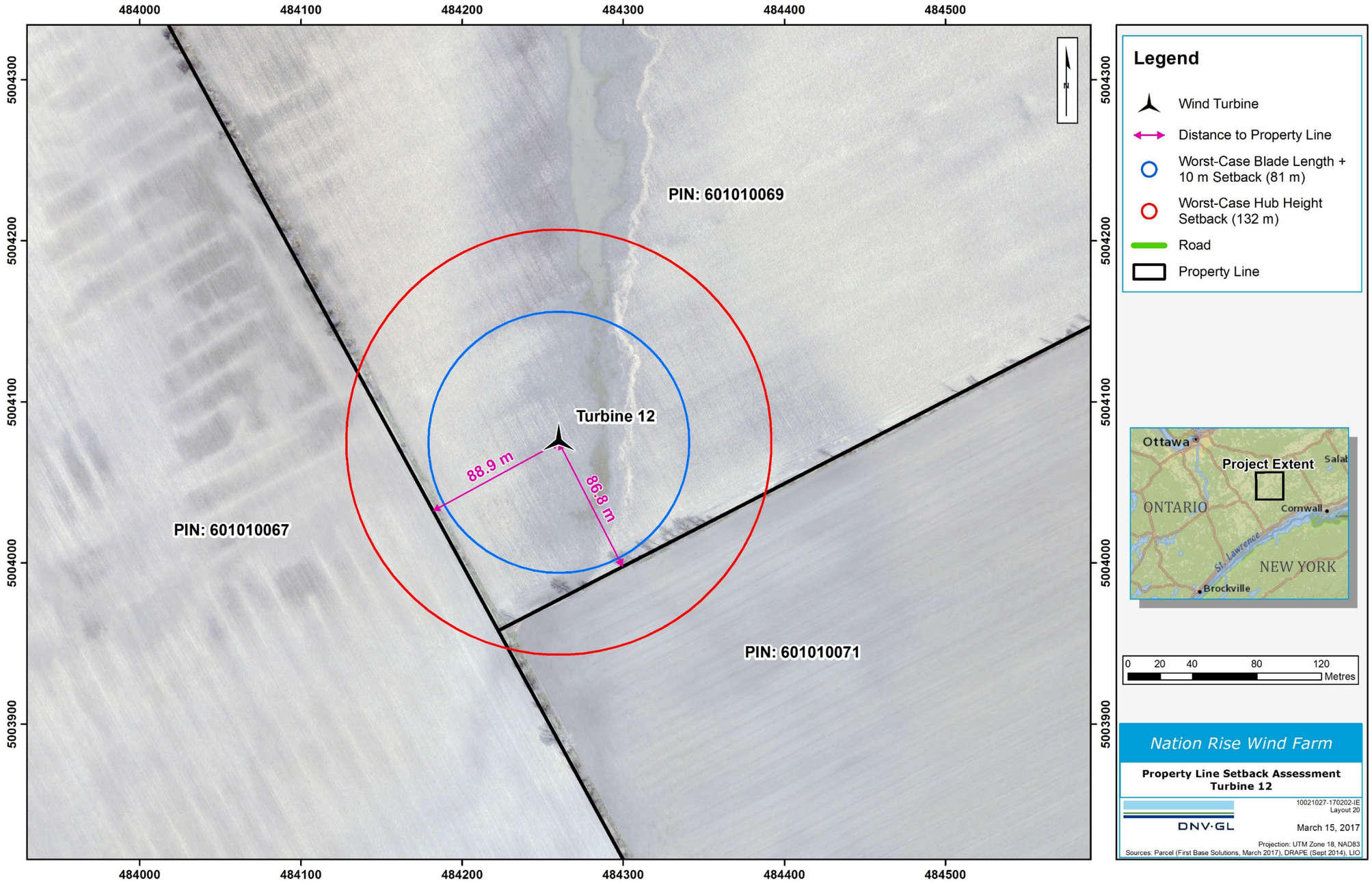

Figure B-5: Property Line Setback Assessment Map – Turbine 12

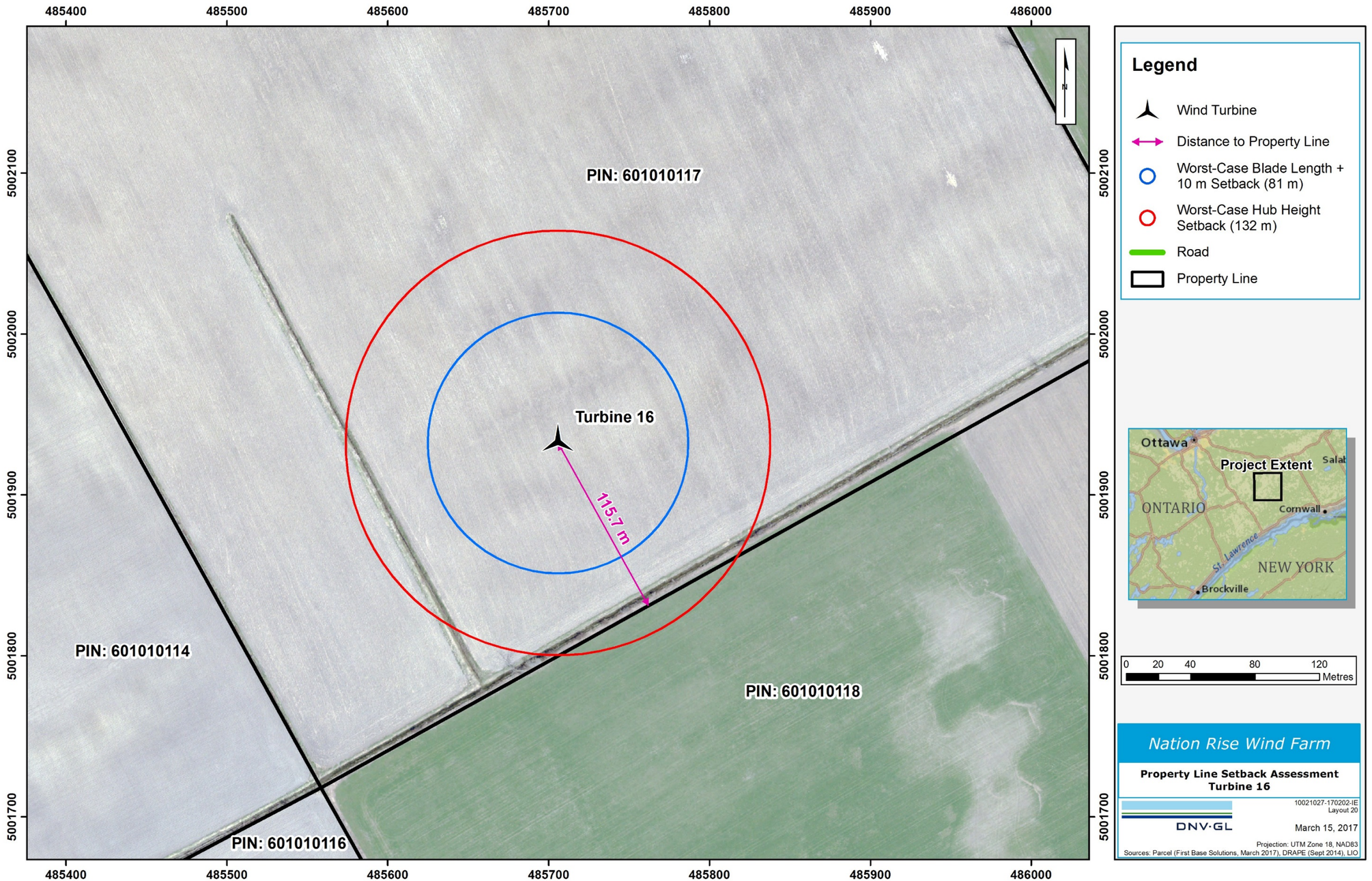

Figure B-6: Property Line Setback Assessment Map – Turbine 16

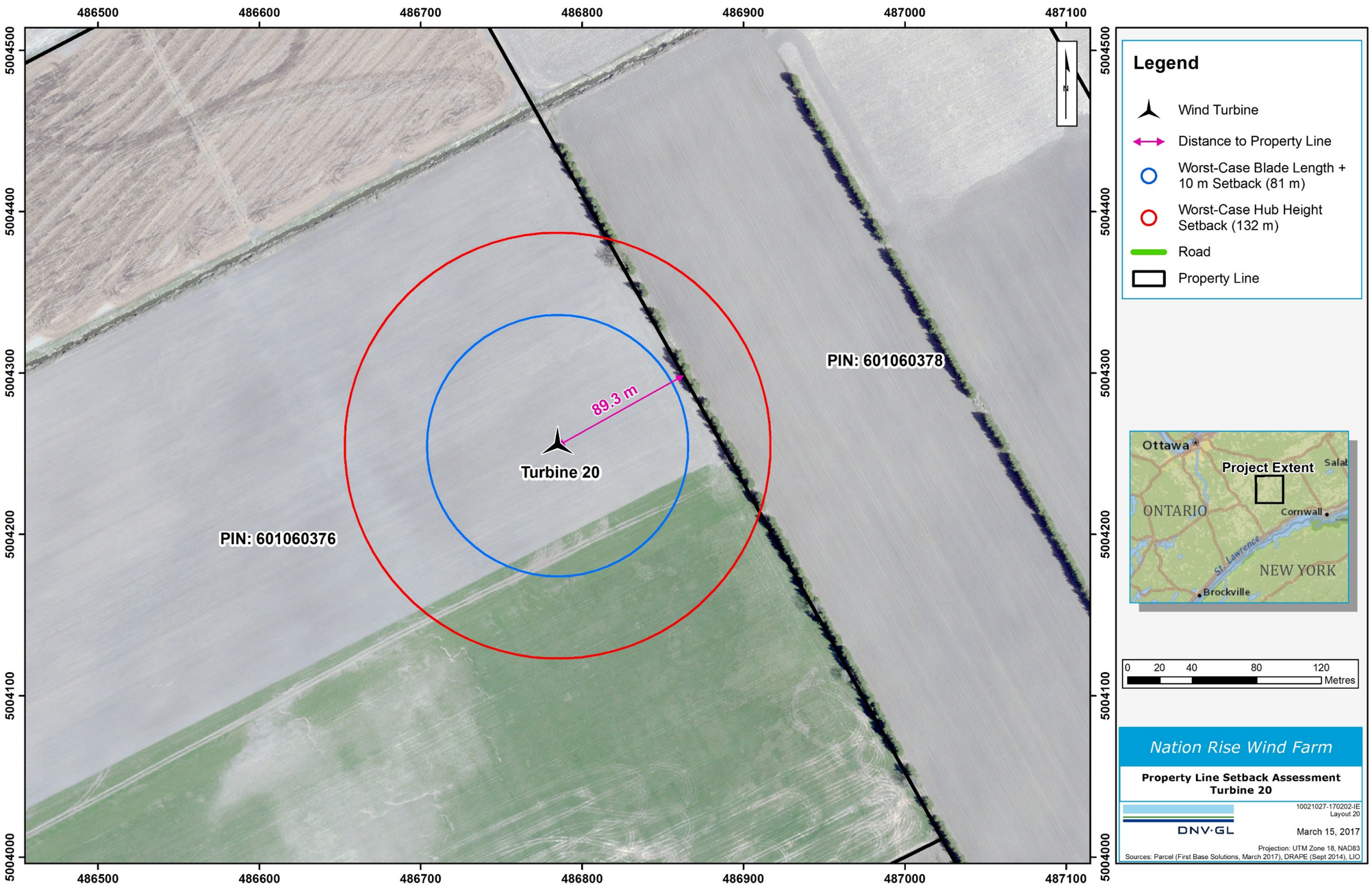

Figure B-7: Property Line Setback Assessment Map – Turbine 20

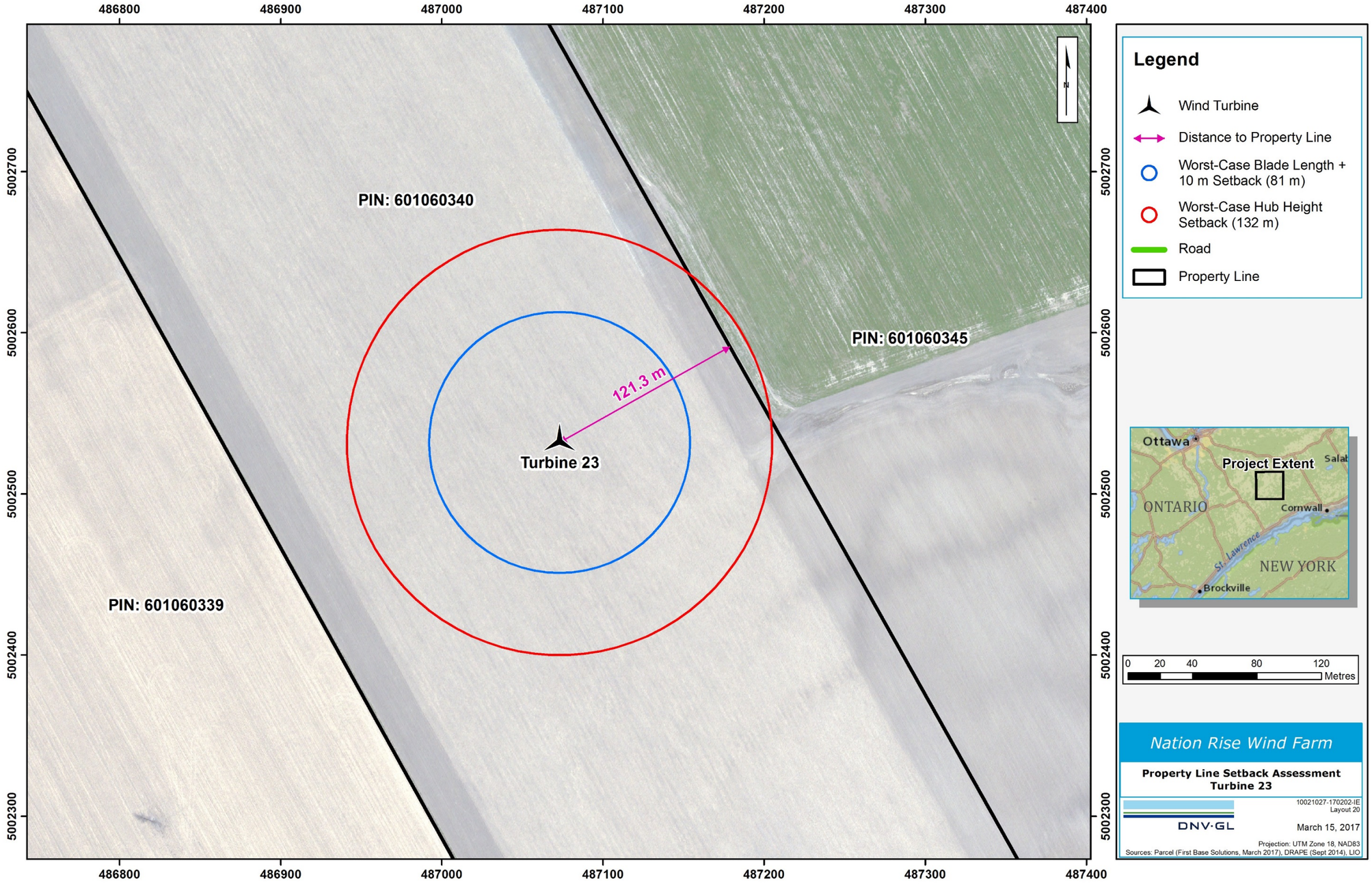

Figure B-8: Property Line Setback Assessment Map – Turbine 23

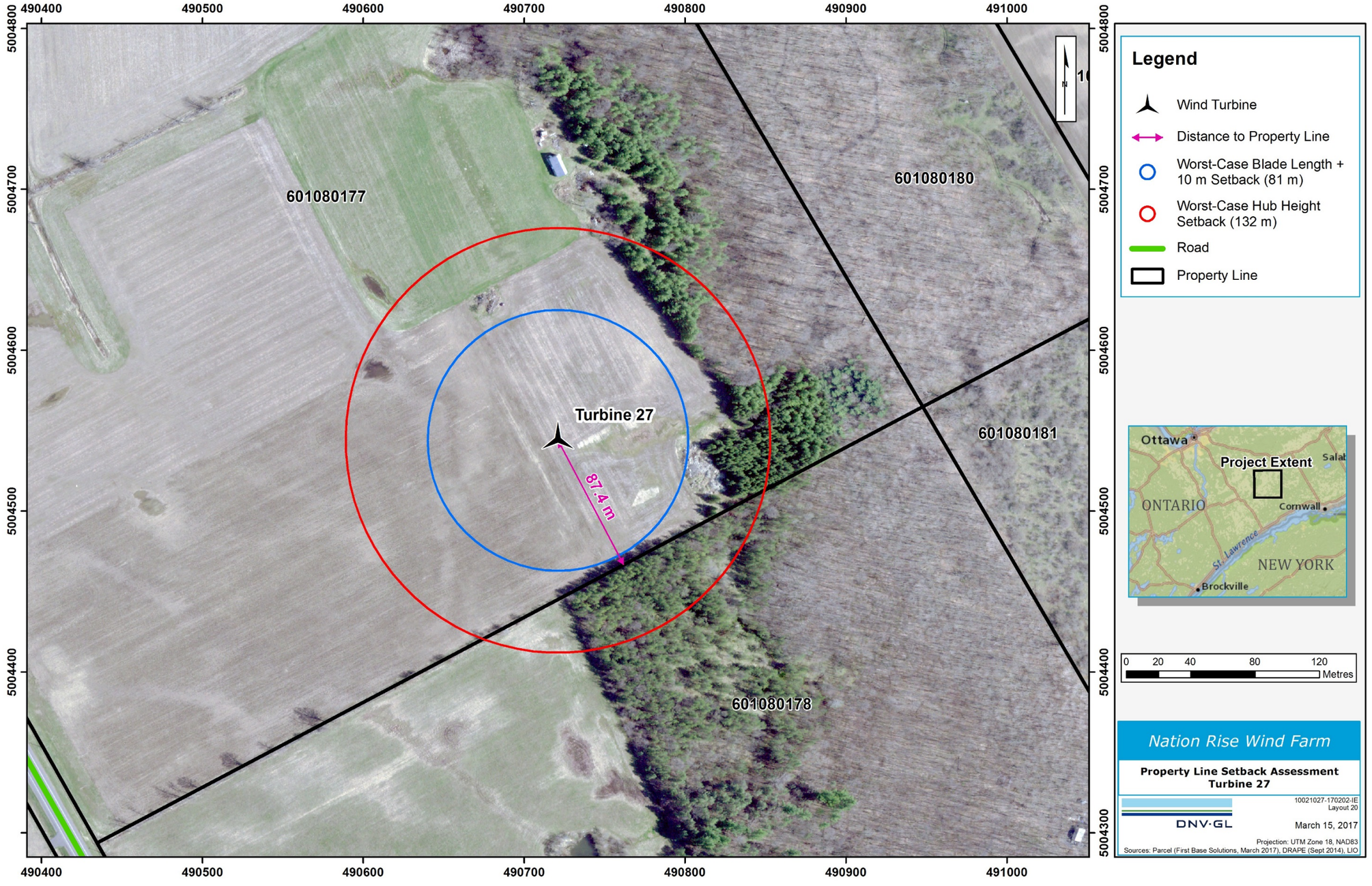

Figure B-9: Property Line Setback Asessment Map – Turbine 27

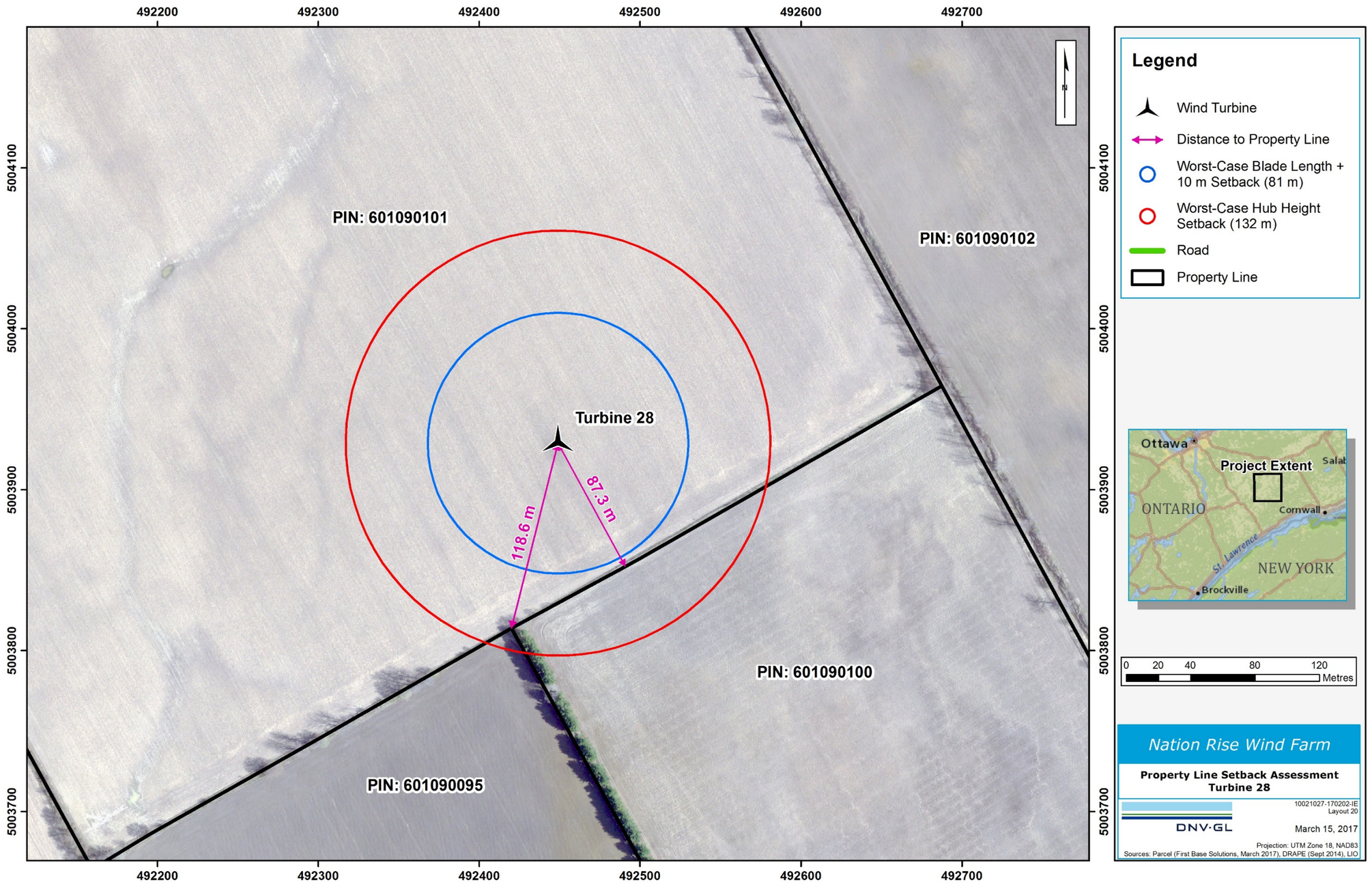

Figure B-10: Property Line Setback Asessment Map – Turbine 28

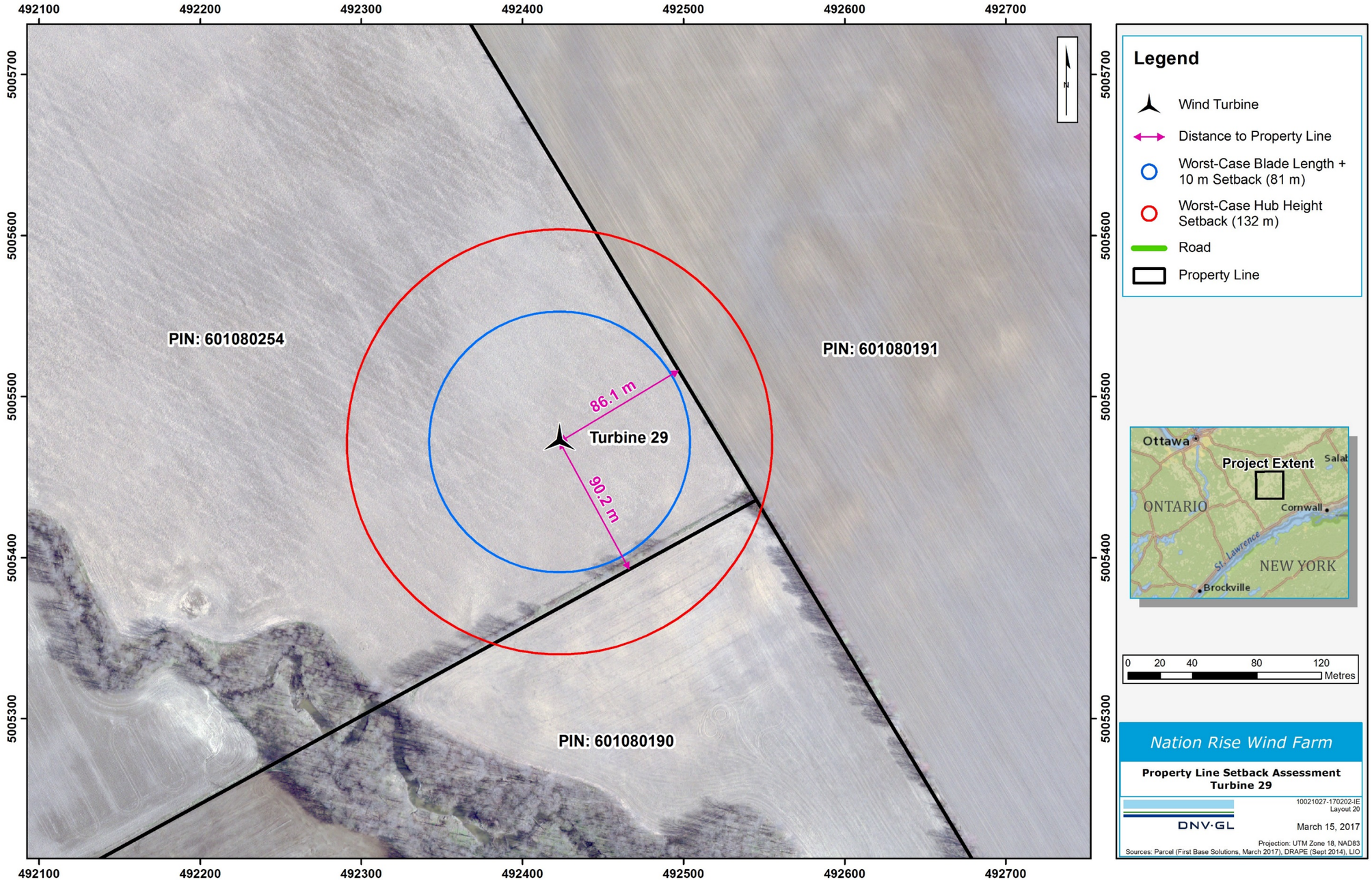

Figure B-11: Property Line Setback Asessment Map – Turbine 29

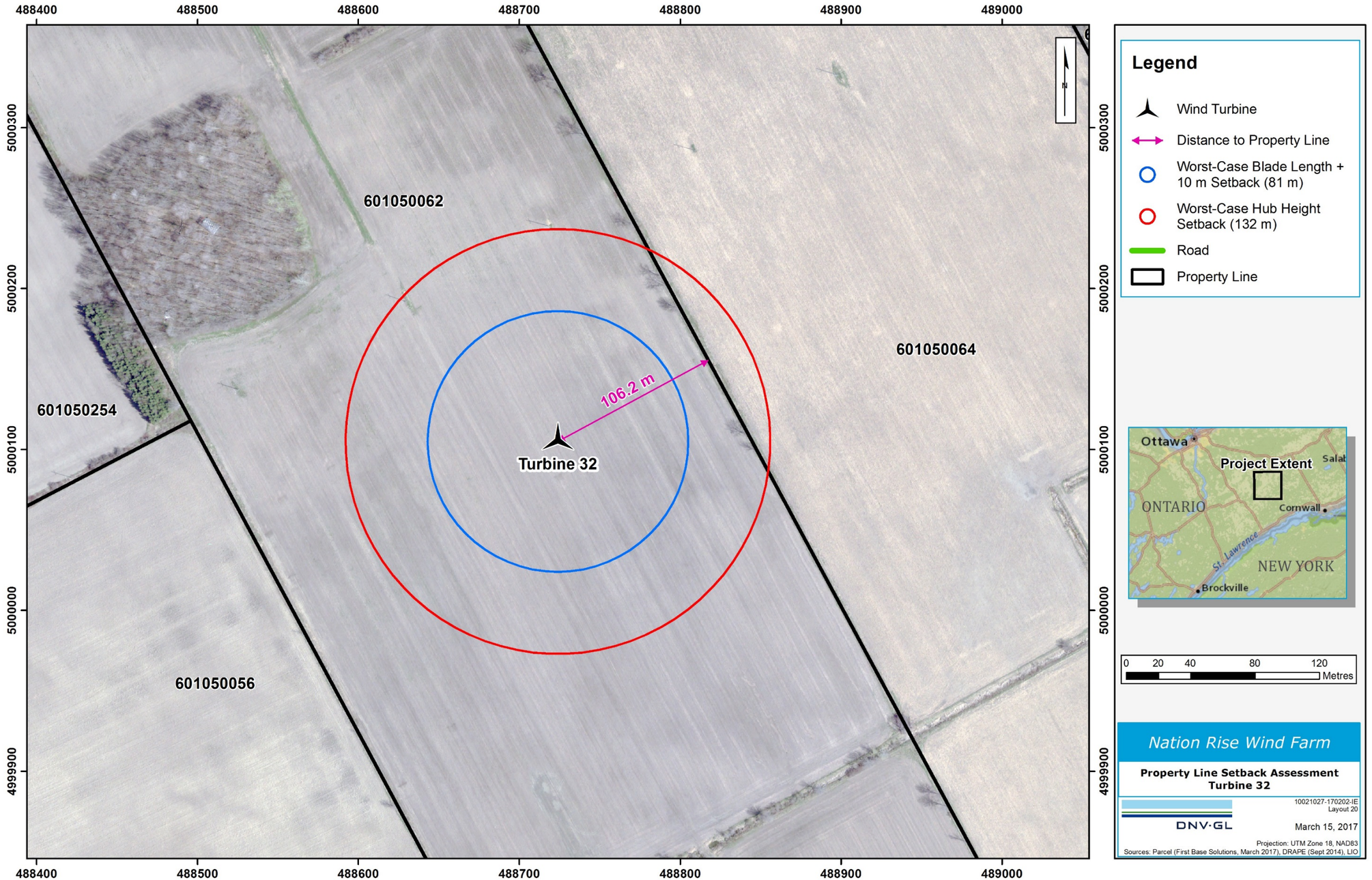

Figure B-12: Property Line Setback Assessment Map – Turbine 32

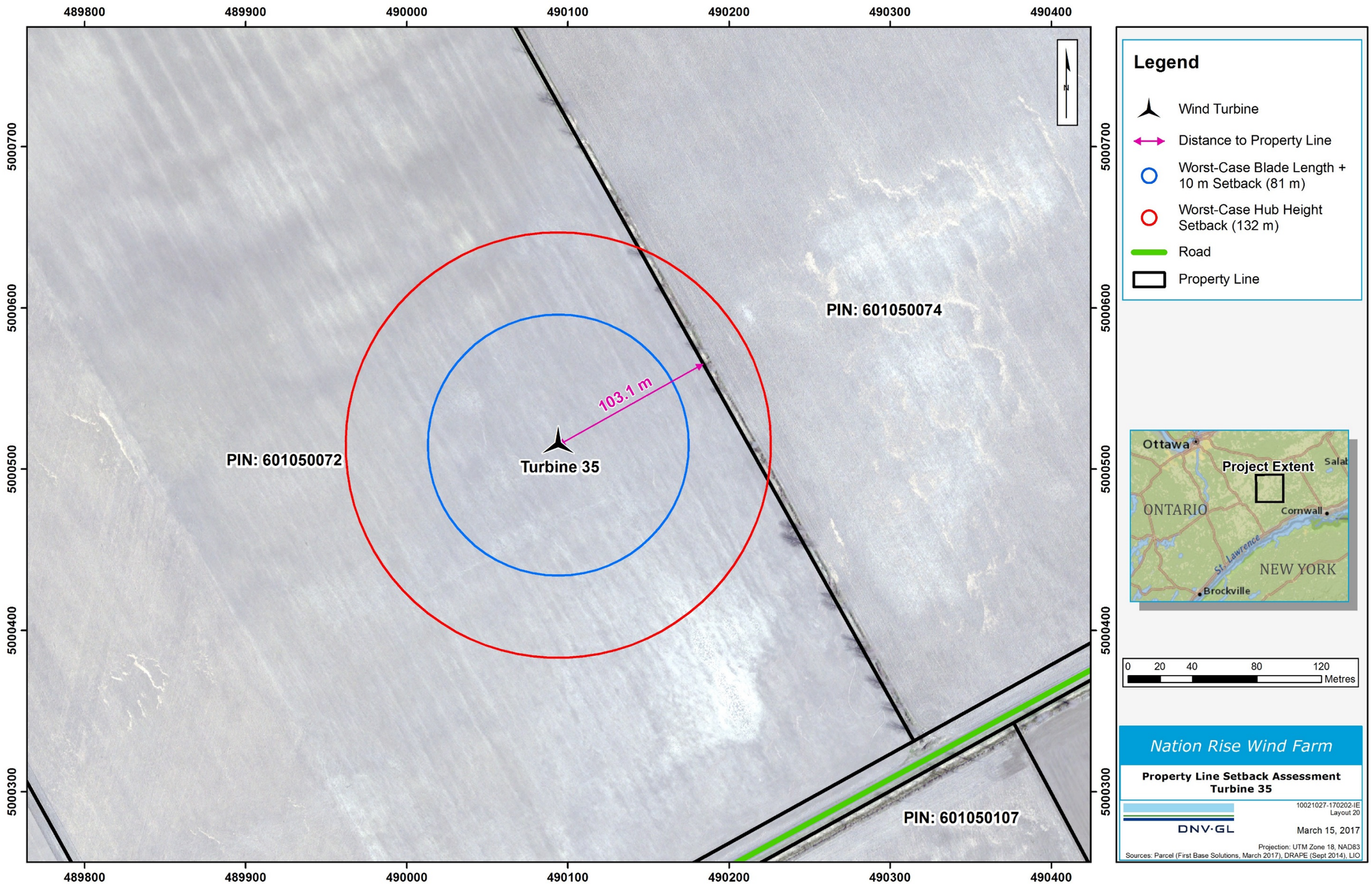

Figure B-13: Property Line Setback Assessment Map – Turbine 35

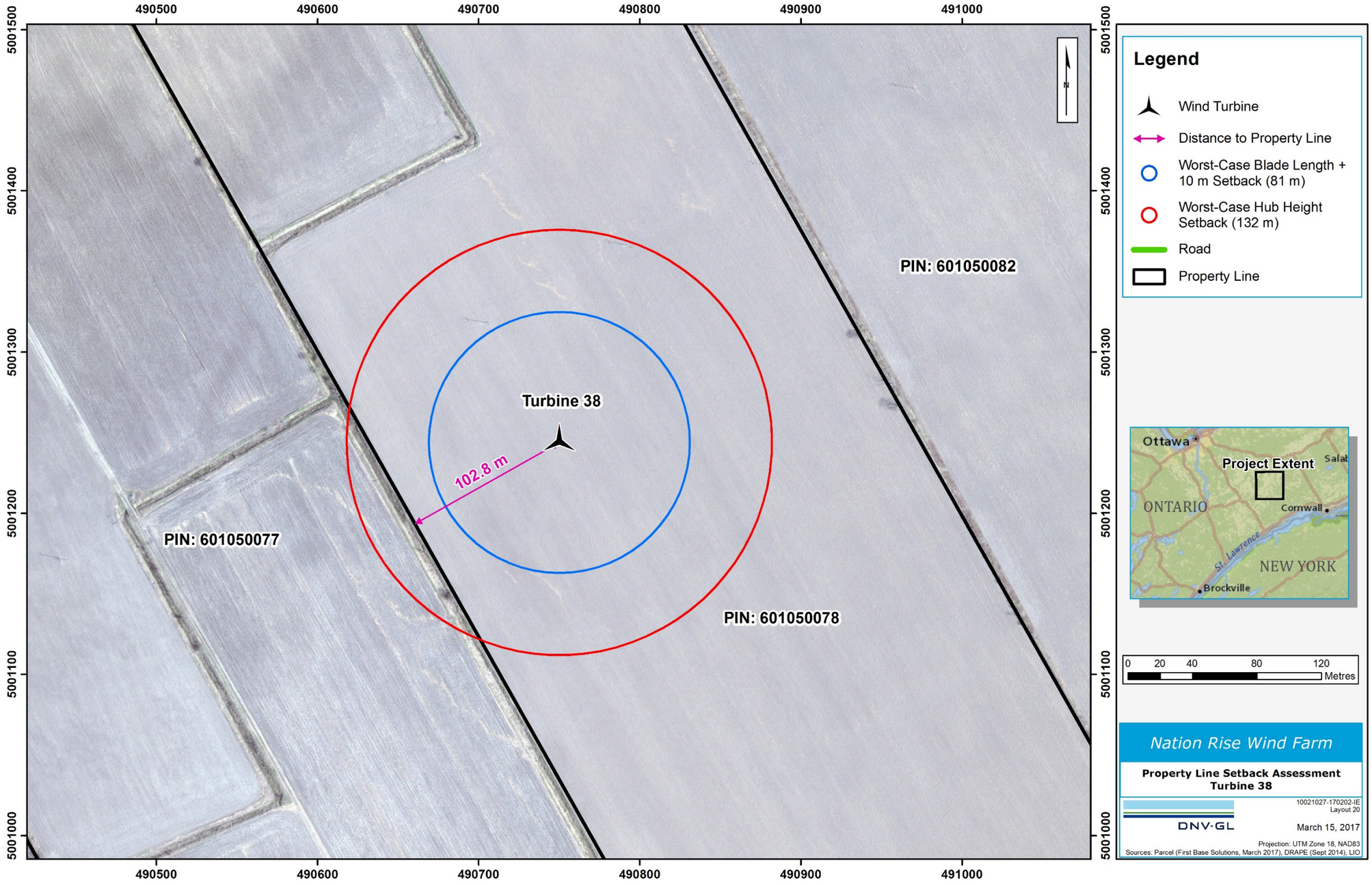

Figure B-14: Property Line Setback Assessment Map – Turbine 38

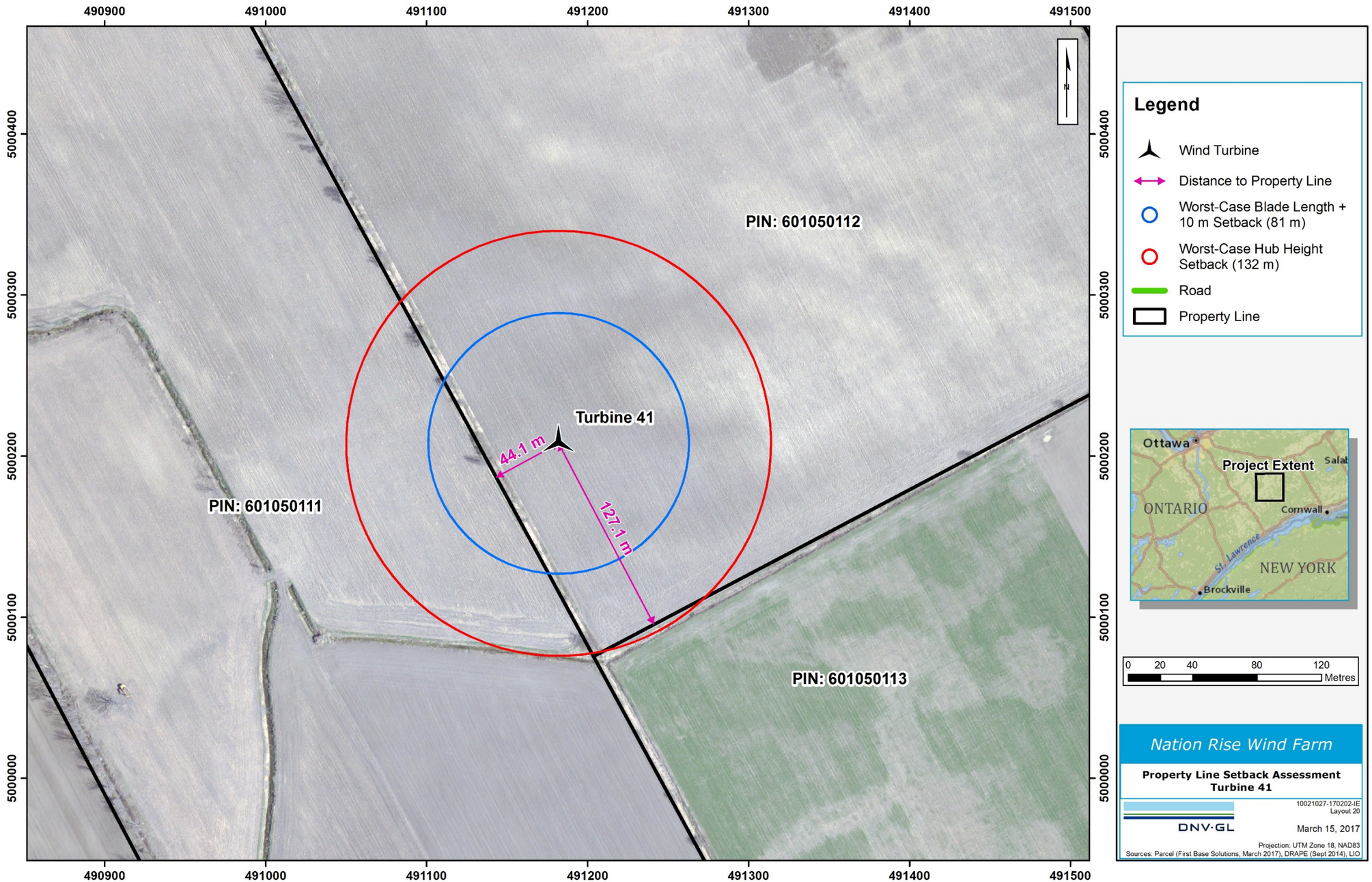

Figure B-15: Property Line Setback Assessment Map – Turbine 41

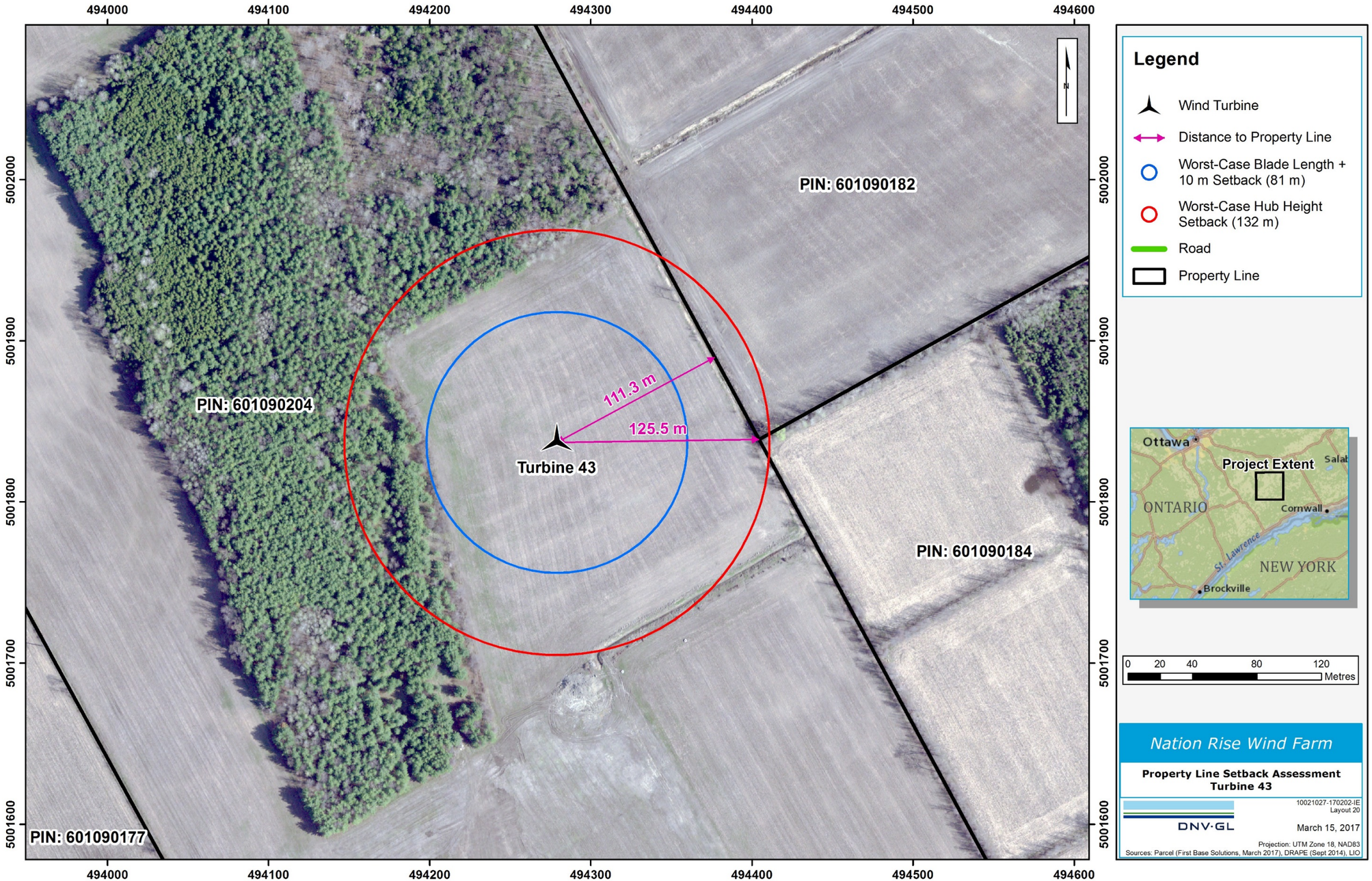

Figure B-16: Property Line Setback Assessment Map – Turbine 43

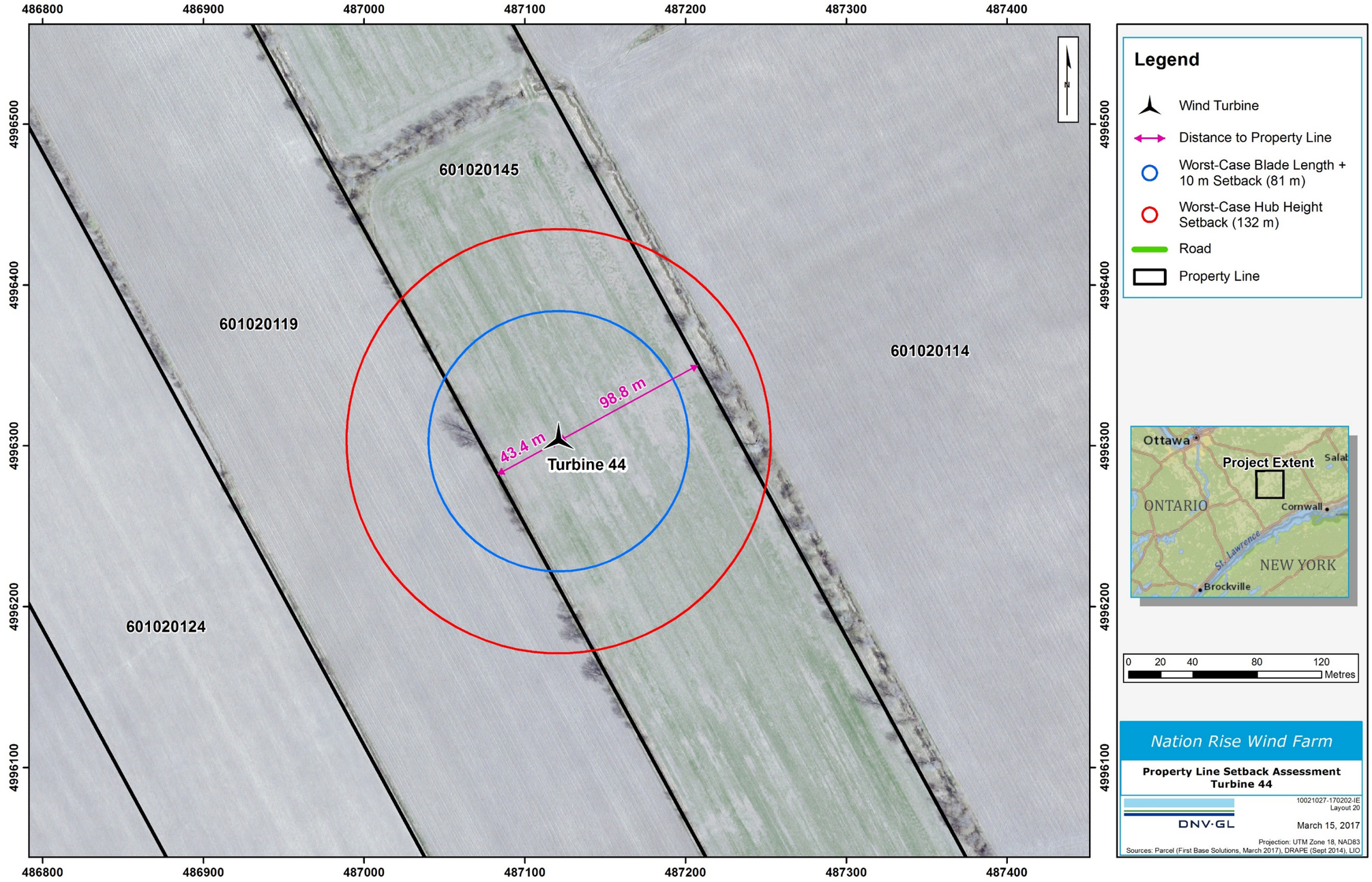

Figure B-17: Property Line Setback Assessment Map – Turbine 44

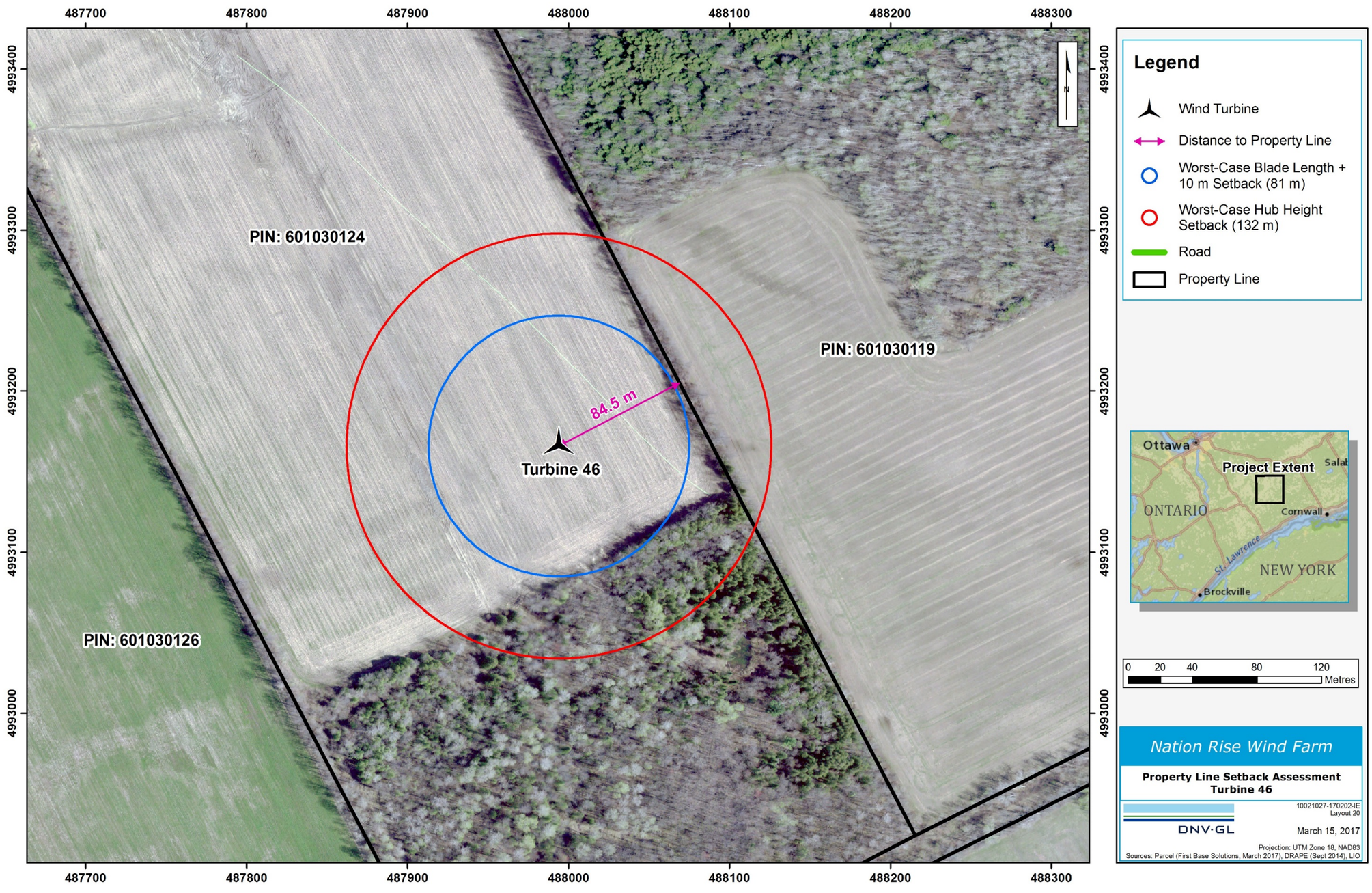

Figure B-18: Property Line Setback Assessment Map – Turbine 46

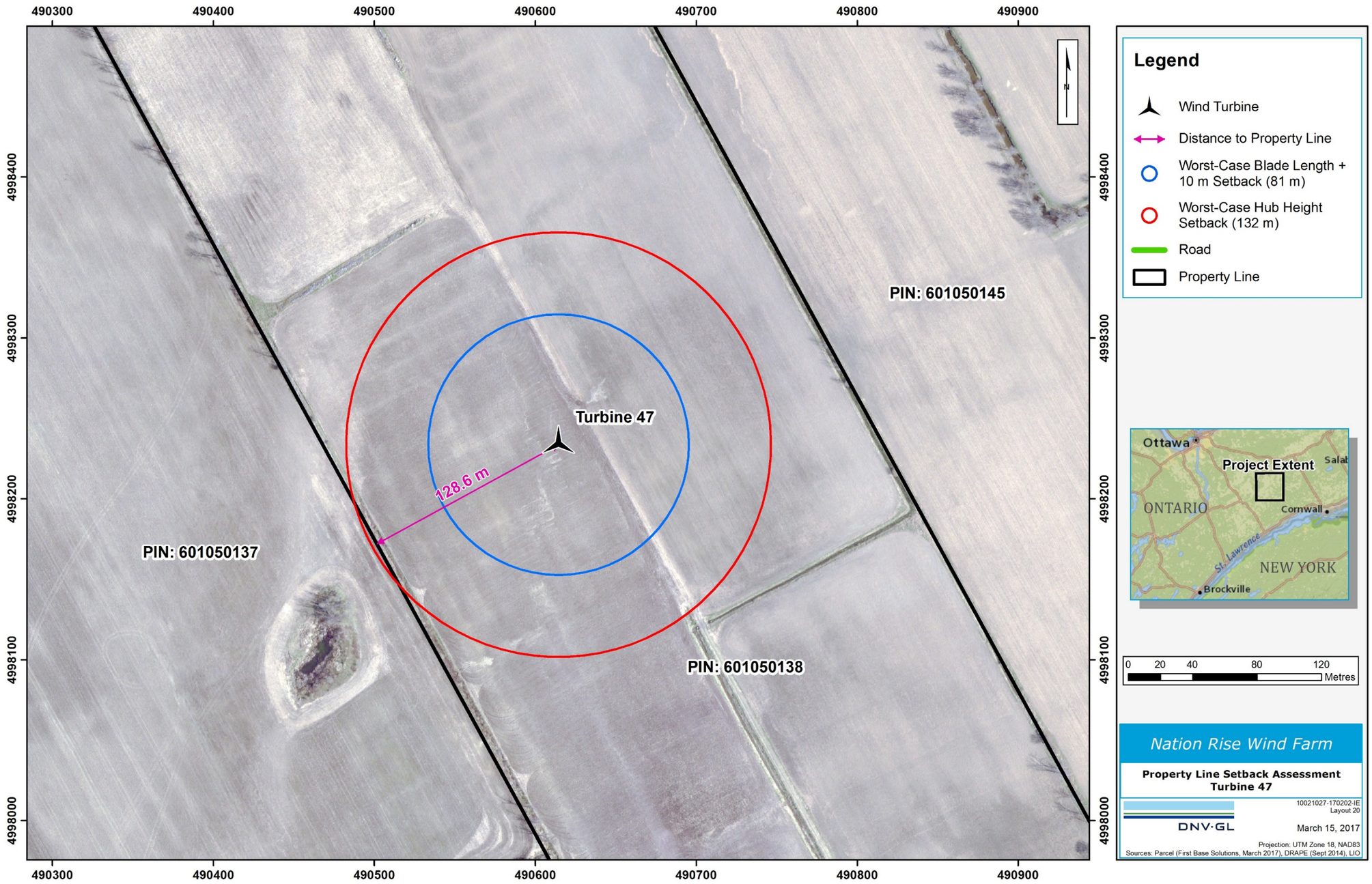

Figure B-19: Property Line Setback Assessment Map – Turbine 47

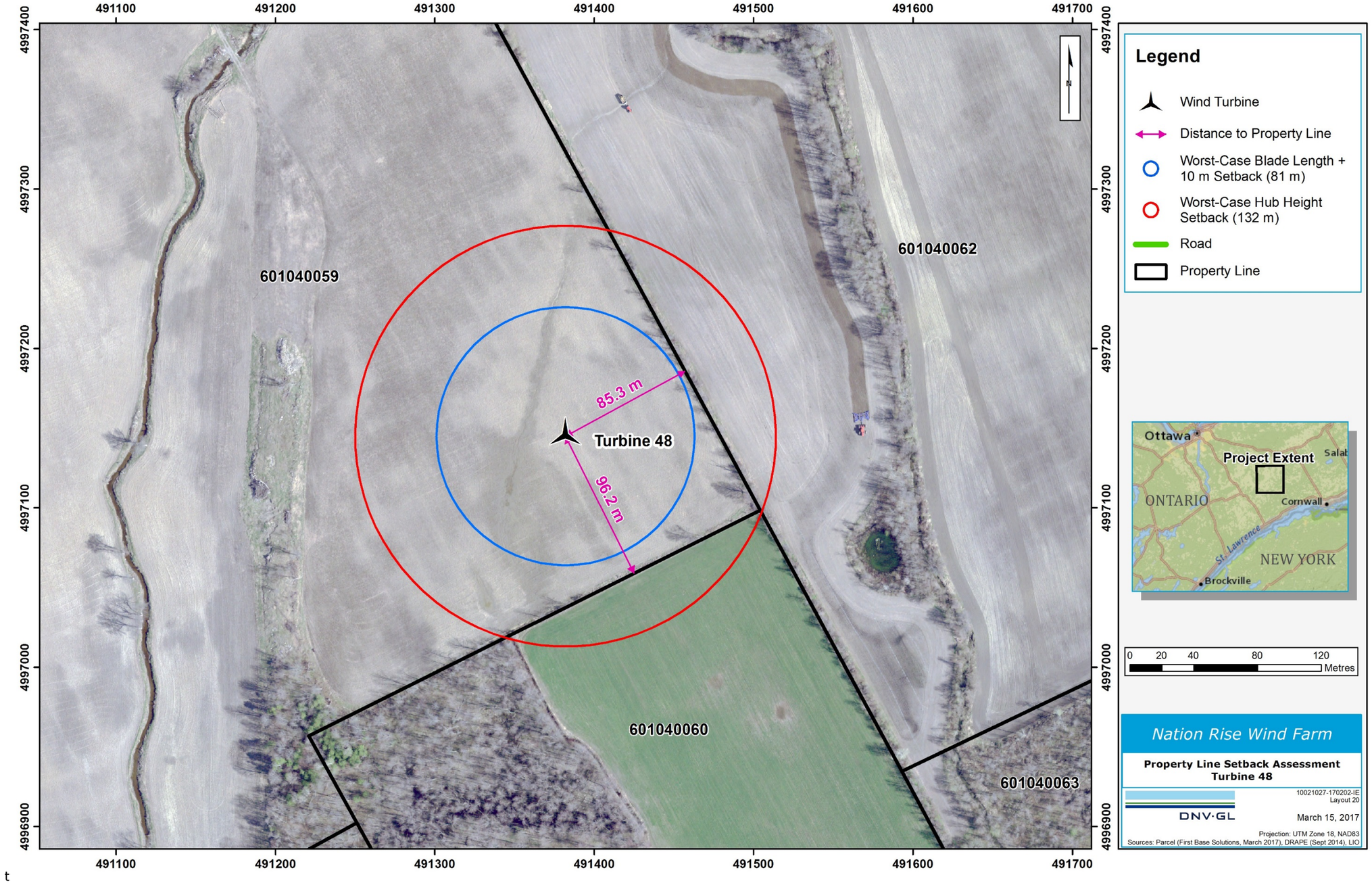

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Figure B-20: Property Line Setback Assessment Map – Turbine 48

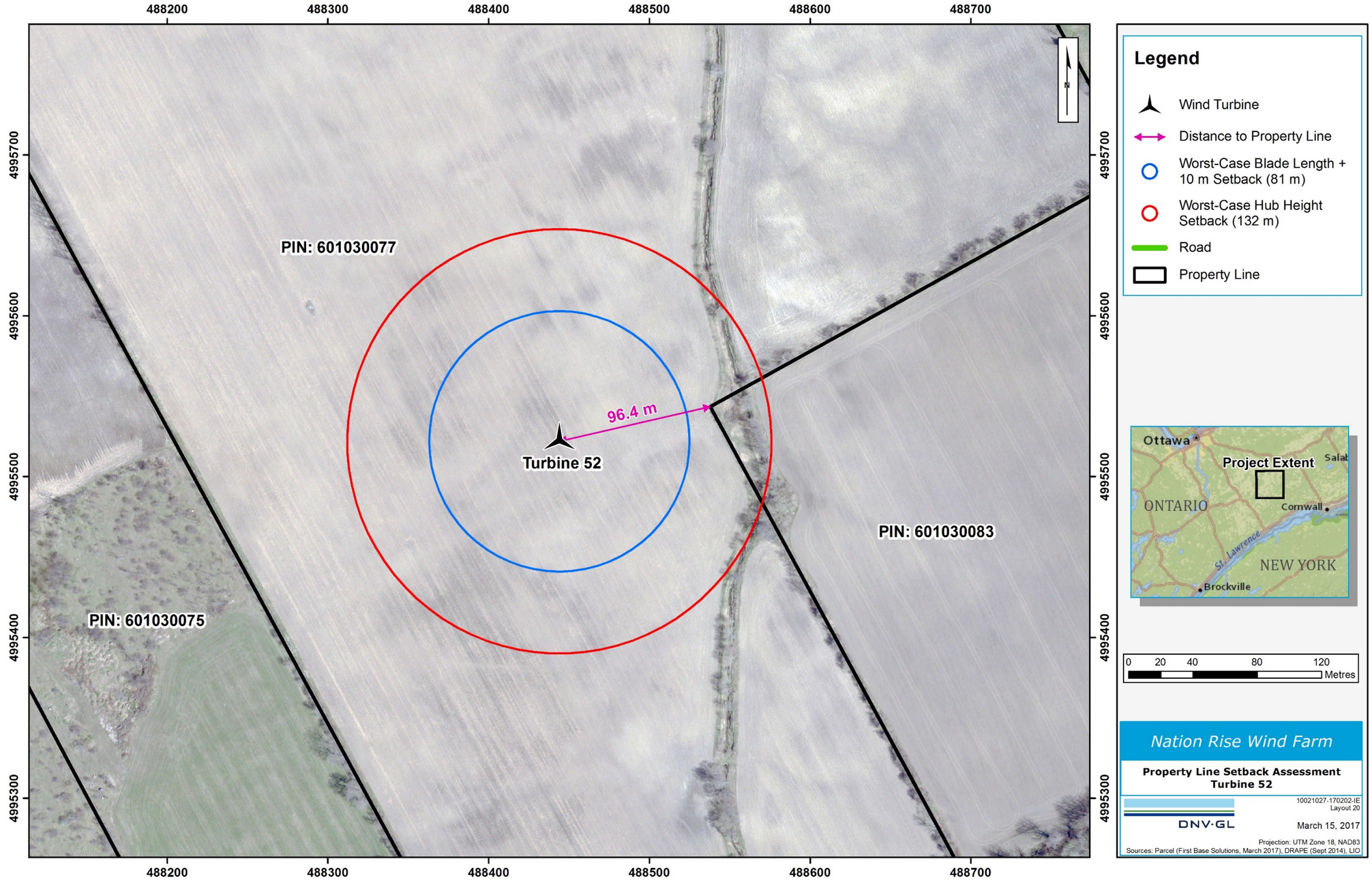

Figure B-21: Property Line Setback Assessment Map – Turbine 52

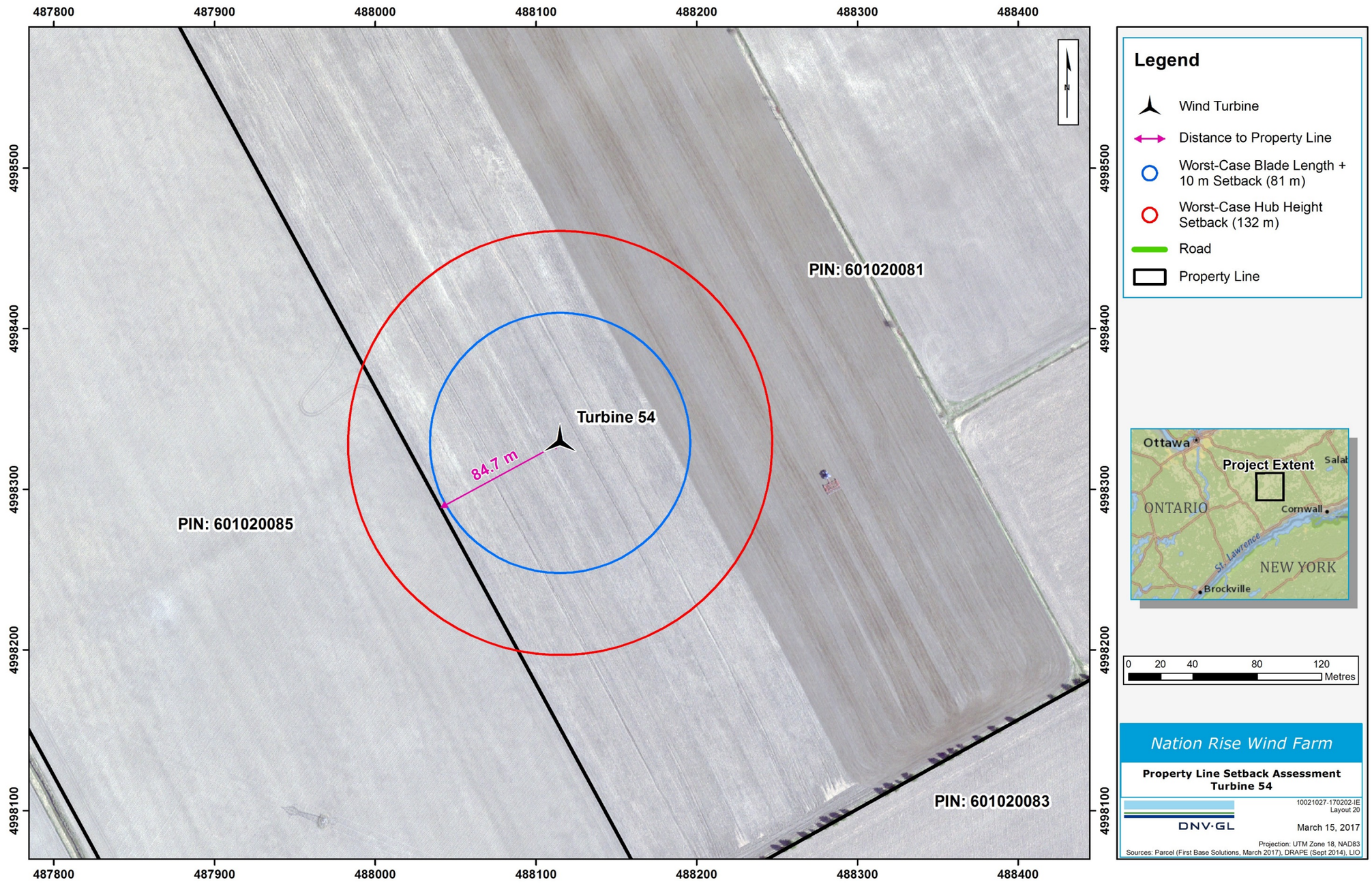

Figure B-22: Property Line Setback Assessment Map – Turbine 54

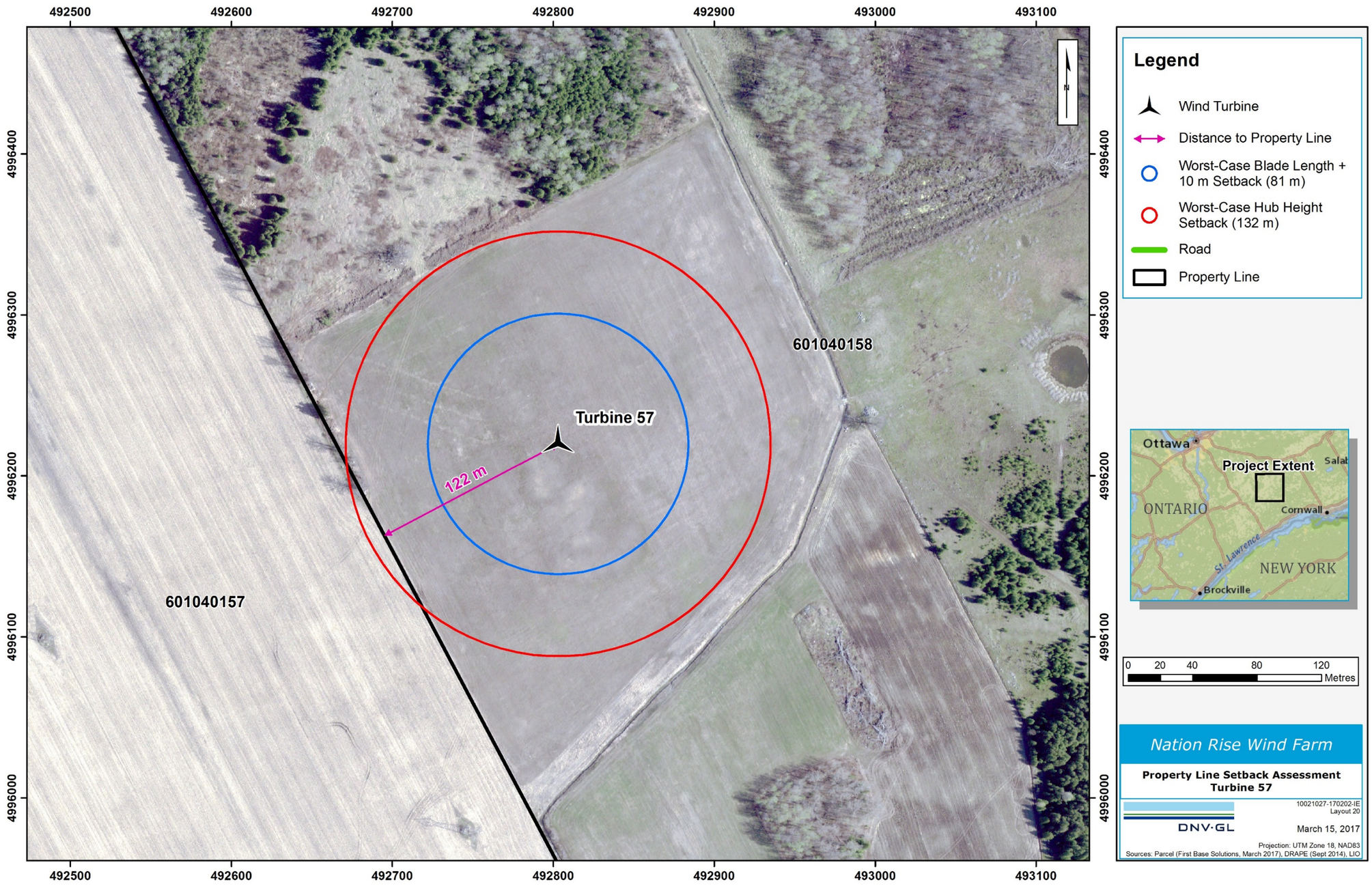

Figure B-23: Property Line Setback Assessment Map – Turbine 57

About DNV GL

Driven by our purpose of safeguarding life, property and the environment, DNV GL enables organizations to advance the safety and sustainability of their business. We provide classification and technical assurance along with software and independent expert advisory services to the maritime, oil and gas, and energy industries. We also provide certification services to customers across a wide range of industries. Operating in more than 100 countries, our 16,000 professionals are dedicated to helping our customers make the world safer, smarter, and greener.