

Appendix A: Site Plan

RIVERBEND WIND PROJECT

SANILAC COUNTY, MICHIGAN
SPEAKER TOWNSHIP
SPECIAL LAND USE PERMIT PLAN

PROJECT OWNER/DEVELOPER

ALGONQUIN POWER (MI ENERGY DEVELOPMENTS) LLC
354 DAVIS ROAD, SUITE 100
OAKVILLE, ON L6J 2X1
PHONE: 647.528.6439
ATTN: GABRIELLA KOVACS

PROJECT ENGINEER/SURVEYOR

ATWELL, LLC
TWO TOWNE SQUARE, SUITE 700
SOUTHFIELD, MI 48076
PHONE: 248.447.2000
FAX: 248.447.2001
ATTN: JEFF WILLIAMS

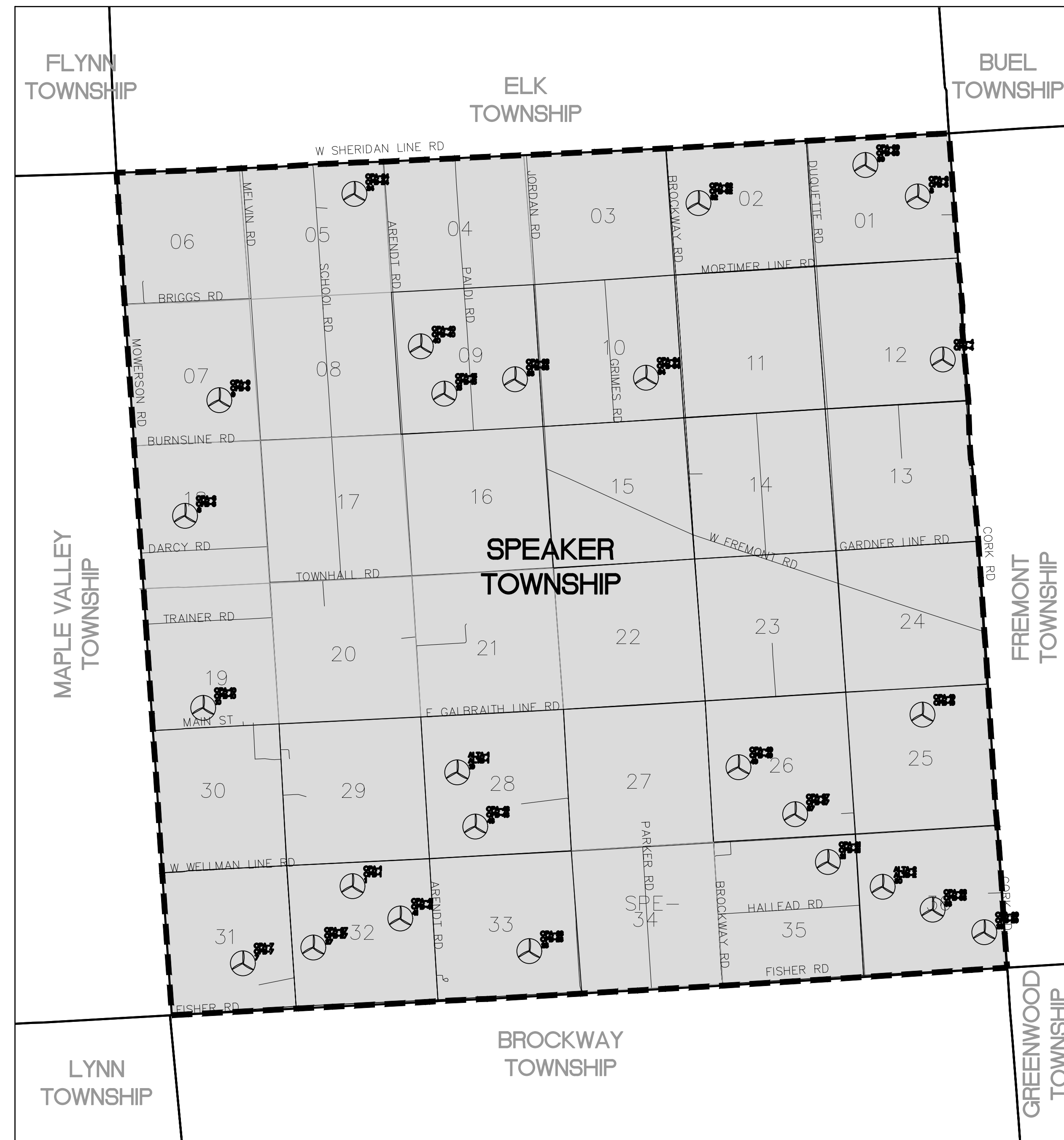
SPEAKER TOWNSHIP

7630 N BROCKWAY ROAD
MELVIN, MI 48454
PHONE: 810.387.3356
ATTN: BEN STEINHOFF

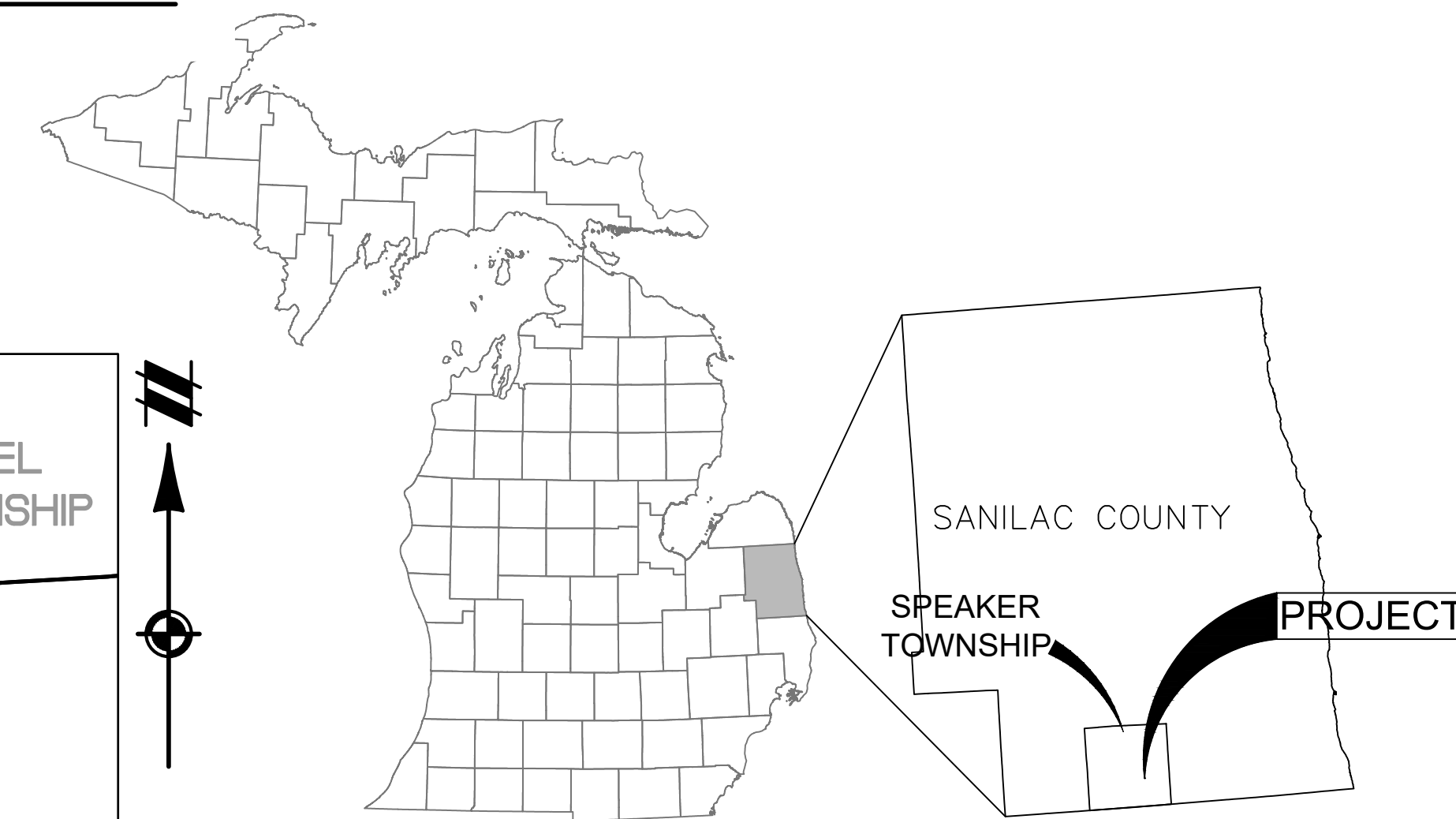
PROJECT NOTE

PROPOSED NUMBER OF WIND TURBINE GENERATORS:

SPEAKER TOWNSHIP: 26



SITE MAP
SCALE 1"=3,000'



VICINITY MAP
NO SCALE

SHEET INDEX	
SHEET NO.	SHEET TITLE
SPE-CV	COVER SHEET
SPE-OVL	PROJECT OVERALL & HAUL ROUTE
SPE-01	SPEAKER TWP - SEC 01
SPE-02	SPEAKER TWP - SEC 02
SPE-05	SPEAKER TWP - SEC 05
SPE-07	SPEAKER TWP - SEC 07
SPE-08	SPEAKER TWP - SEC 08
SPE-09	SPEAKER TWP - SEC 09
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SPE-33	SPEAKER TWP - SEC 33
SPE-35	SPEAKER TWP - SEC 35
SPE-36	SPEAKER TWP - SEC 36
SPE-DET	STANDARD DETAILS

PROJECT SUMMARY

- THE PROPOSED RIVERBEND WIND ENERGY, PROJECT IS LOCATED IN SPEAKER & FREMONT TOWNSHIPS, SANILAC COUNTY, MICHIGAN.
- THE PROJECT WILL BE BUILT, OWNED, AND OPERATED BY ALGONQUIN POWER (MI ENERGY DEVELOPMENTS) LLC.
- THE PROJECT WILL CONTAIN AN UNDERGROUND ELECTRICAL COLLECTION SYSTEM.
- THE PROJECT'S COLLECTION LINES WILL TIE INTO THE NEW SUBSTATION TO BE BUILT IN FREMONT TOWNSHIP.
- THE PROJECT WILL INCLUDE MORE THAN 8,593 ACRES OF PARTICIPATING PARCELS WITHIN SPEAKER TOWNSHIP.

DATA SOURCES

TOPOGRAPHICAL INFORMATION	USGS NATIONAL ELEVATION DATASET (NED), 3 METER DEM DRAIN MAPS PER COUNTY RECORDS
PROPERTY BOUNDARY INFORMATION	GIS PARCEL BOUNDARIES PER CORELOGIC PARCEL DATA (2022) SURVEYED PARCEL BOUNDARIES PROVIDED BY ATWELL (AUGUST 2022)
HABITABLE STRUCTURE LOCATIONS	PROVIDED BY LIBERTY (NOVEMBER 2020) FIELD VERIFIED BY ATWELL (AUGUST 2022)
TURBINE LOCATIONS (ARRAY)	PROVIDED BY LIBERTY (ARRAY SEPTEMBER 6, 2022)
TURBINE ACCESS ROADS	PROVIDED BY ATWELL (SEPTEMBER 2022)
ELECTRICAL COLLECTION LINE	PROVIDED BY LIBERTY (SEPTEMBER 2022)



Know what's below.

Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PREPARE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SOUTHFIELD, MI 48076
248.447.2000

SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALGONQUIN POWER (MI ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
COVER SHEET

DATE: SEPT. 29, 2022

REVISIONS

SCALE 0

DR. GS CH. BS

P.M. JW

BOOK --

JOB 21003645

SHEET NO.

SPE-CV

CAD FILE: S:\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\SPEAKER_SUP\21003645SPE-SUP-00-01

NOT FOR CONSTRUCTION



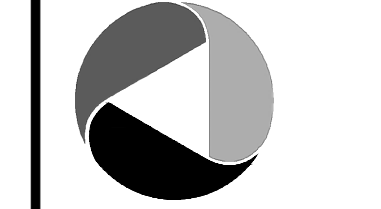
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248.447.2800



TURBINE LOCATION DATA

Turbine ID			Turbine Locations (UTM83-17)		
Layout 16	Layout 16a	Layout 25	Northing (Meters)	Easting (Meters)	Elevation (ASL Meters)
OPA-1	OPB-1	1	349477	4781358	240.0
OPA-3	OPB-3	3	356167	4788880	230.4
OPA-4	OPB-4*	--	356376	4787030	240.0
OPA-6	OPB-6*	6	347755	4785610	240.0
OPA-7	OPB-7	7	348205	4780537	244.9
OPA-9	OPB-9*	9	348194	4786899	240.0
OPA-10	OPB-10	10	347873	4783436	250.0
OPA-15	OPB-15	15	350735	4786871	240.0
OPA-19	OPB-19	--	355986	4783034	240.0
OPA-21	OPB-21	21	354852	4781415	250.0
OPA-24	OPB-24	24	349812	4789164	240.0
OPA-27	OPB-27	27	349007	4780683	240.0
OPA-28	OPB-28*	28	351442	4780545	250.0
OPA-29	OPB-29	29	356585	4780552	237.4
OPA-32	OPB-32	32	353690	4788905	240.0
OPA-33	OPB-33	33	351540	4787001	240.0
OPA-34	OPB-34	34	353018	4786959	240.0
OPA-37	OPB-37	37	354504	4781969	250.0
OPA-38	OPB-38	38	356012	4780830	240.0
OPA-39	OPB-39	39	355590	4789259	235.7
OPA-40	OPB-40	40	350492	4787415	240.0
OPA-41	OPB-41	41	350001	4780971	240.0
OPA-48	OPB-48	48	350889	4781974	250.0
OPA-49	OPB-49	49	353886	4782524	250.0
ALTA-1	ALTB-1	19	350709	4782594	249.8
ALTA-2	ALTB-2	30	355459	4781111	248.6

NOTE: * INDICATES A TURBINE LOCATION CONSIDERING AN ALTERNATE TECHNOLOGY WITH A ROTOR DIAMETER OF 163M (535 FT). REFER TO TURBINE SPECIFICATIONS ON SHEET FRE-DET FOR ADDITIONAL DETAILS.

INTERSECTION IMPROVEMENT SUMMARY TABLE

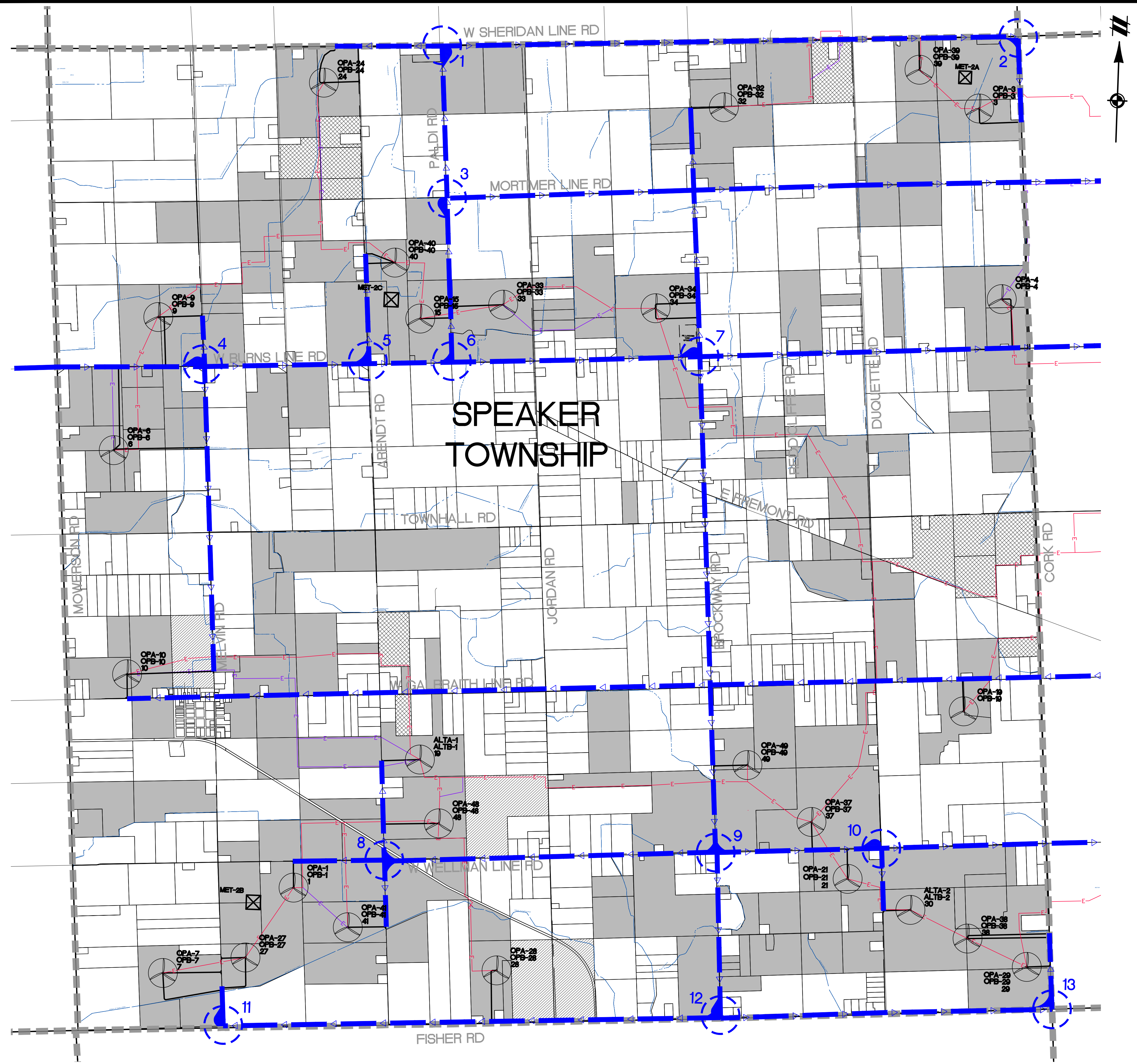
Improvement ID	Intersection
1	Paldi Road & W Sheridan Line Road
2	Cork Road & W Sheridan Line Road
3	Paldi Road & Mortimer Line Road
4	Melvin Road & W Burns Line Road
5	Arendt Road & W Burns Line Road
6	Paldi Road & W Burns Line Road
7	Brockway Road & W Burns Line Road
8	Arendt Road & W Wellman Line Road
9	Brockway Road & W Wellman Line Road
10	Doquette Road & W Wellman Line Road
11	Melvin Road & Fisher Road
12	Brockway Road & Fisher Road
13	Cork Road & Fisher Road

NOTE: HAUL ROUTE SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE PENDING ADDITIONAL STUDIES.

LEGEND

TOWNSHIP BOUNDARY LIMITS
 PROP. TURBINE LOCATION TURBINE #
 RIVERBEND SIGNED PARCEL
 RIVERBEND PENDING PARCEL
 RIVERBEND NEGOTIATING PARCEL
 PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
 ALTERNATE COLLECTION ROUTE
 PROPOSED ACCESS ROAD GRAVEL
 PROPOSED MET TOWER
 PROP. HAUL ROUTE
 PROP. INTERSECTION IMPROVEMENT (TEMPORARY)

NOTE: LAYDOWN YARD IS REPRESENTATIVE LOCATIONS. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.



CLIENT ALGONQUIN POWER (MI ENERGY DEVELOPMENTS) LLC
 RIVERBEND WIND PROJECT
 SPECIAL LAND USE SITE PLANS
 PROJECT OVERALL & HAUL ROUTE

SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

DATE: SEPT. 29, 2022

REVISIONS

SCALE: 0 750 1500
1" = 1500 FEET

DR. GS CH. BS

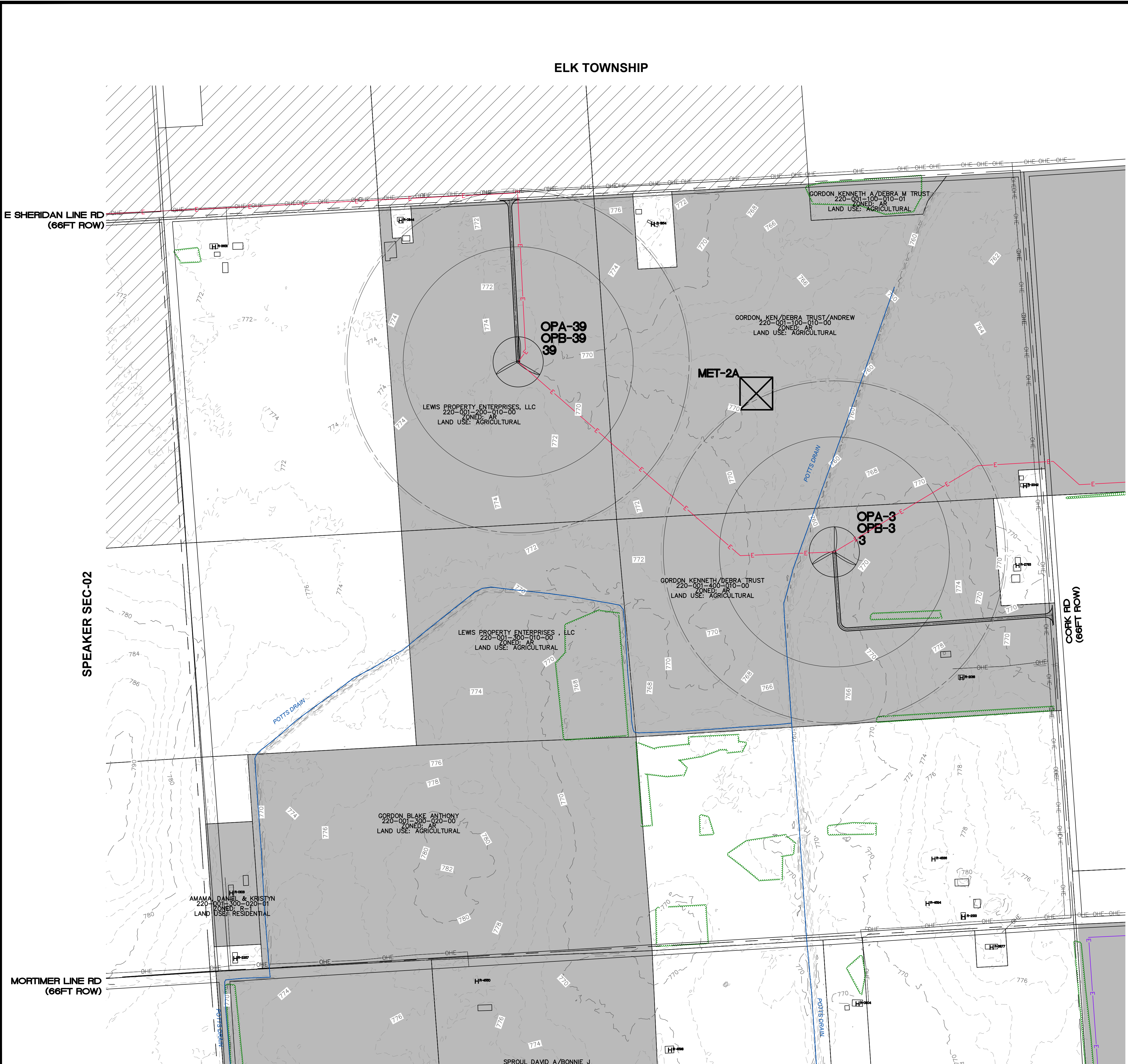
P.M. JW

BOOK --

JOB 21003645

SHEET NO. SPE-OVL

CAD FILE: S:\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\SPEAKER_SUP\21003645SPE-SUP-01-DWG



E SHERIDAN LINE RD
(66FT ROW)

SPEAKER SEC-02

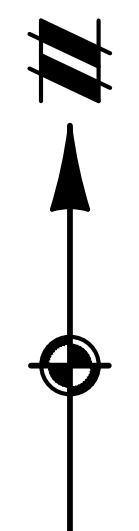
MORTIMER LINE RD
(66FT ROW)

SPEAKER SEC-12

FREMONT TOWNSHIP

CORK RD
(66FT ROW)

ELK TOWNSHIP



SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL



WTG ID

- EXISTING COUNTY ROAD
 - PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
 - PROPOSED WTG (WIND TURBINE GENERATOR)
- HH, HUB HEIGHT: 119M (390 FT)
 118.5M (389 FT)
 RD, ROTOR DIAMETER: 162M (531 FT)
 163M (535 FT)
 APEX, TOTAL HEIGHT: 200M (656 FT)
 200M (656 FT)

WTG SETBACKS

- 1062' OR 1070' MIN. DISTANCE (2x RD) BETWEEN TURBINES
- 706' MIN. DISTANCE (TOTAL HEIGHT + 50') FROM:
THE NEAREST PUBLIC ROAD AND/OR RAILROAD DETERMINED AT THE NEAREST BOUNDARY OF THE RIGHT-OF-WAY EASEMENT AND/OR RAILROAD EASEMENT
- THE NEAREST ABOVE-GROUND PUBLIC UTILITY TRANSMISSION LINE DETERMINED FROM THE EXISTING ABOVE-GROUND POWER LINE OR TELEPHONE LINE.
- THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT
- NON-PARTICIPATING PROPERTY LINE
- 1050' MIN. DISTANCE (160% OF APEX) FROM THE NEAREST DWELLING, SCHOOL, HOSPITAL, CHURCH, PUBLIC LIBRARY, OR MUNICIPAL LIMIT

NOTES:

1. ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
2. ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
3. A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
4. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.

811
Know what's below.
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CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 01

DATE: SEPT. 29, 2022

REVISIONS

SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M.	JW		
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-01		

CAD FILE: S: 21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\SPEAKER_SUP\21003645SPE-SUP-02-EN

NOT FOR CONSTRUCTION



SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
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LEGEND

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- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
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- EXISTING OVERHEAD ELECTRICAL
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- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL

- WTG ID**
- PROPOSED MET TOWER
 - EXISTING COUNTY ROAD
 - PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
 - PROPOSED WTG (WIND TURBINE GENERATOR)
- HH, HUB HEIGHT: 119M (390 FT)
 118.5M (389 FT)
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WTG SETBACKS

- 1062' OR 1070' MIN. DISTANCE (2x RD) BETWEEN TURBINES
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THE NEAREST PUBLIC ROAD AND/OR RAILROAD DETERMINED AT THE NEAREST BOUNDARY OF THE RIGHT-OF-WAY EASEMENT AND/OR RAILROAD EASEMENT
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CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
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SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 02

DATE: SEPT. 29, 2022

REVISIONS

SCALE	0	150	300
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DR.	GS	CH.	BS
P.M. JW			
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-02		



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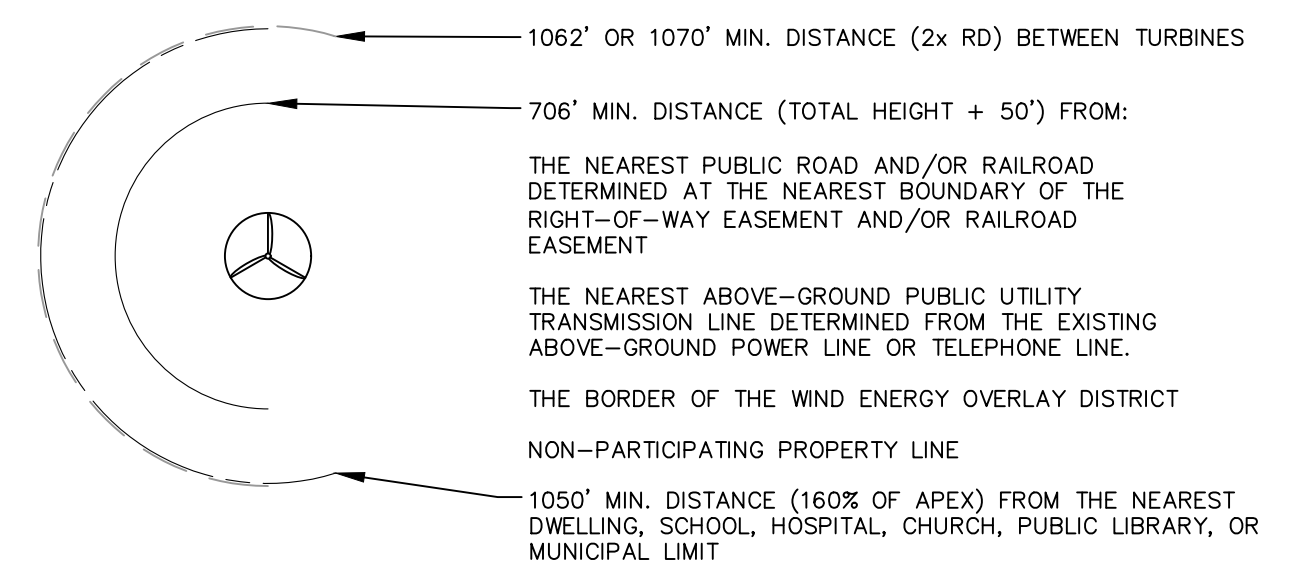
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RD,	APEX: 163M (535 FT)
RD,	TOTAL HEIGHT: 200M (656 FT)
RD,	200M (656 FT)

WTG SETBACKS



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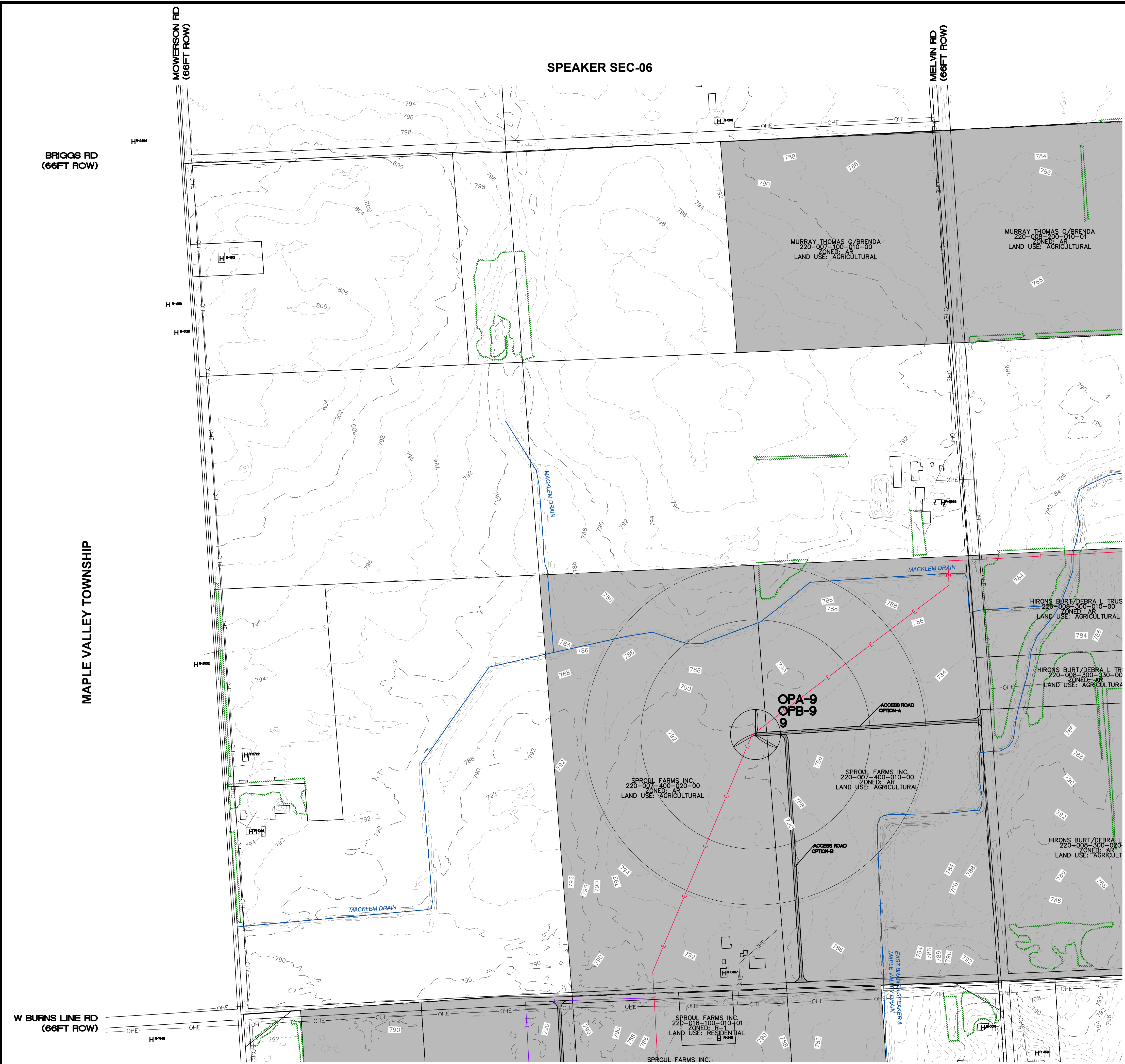
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SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 05

DATE: SEPT. 29, 2022

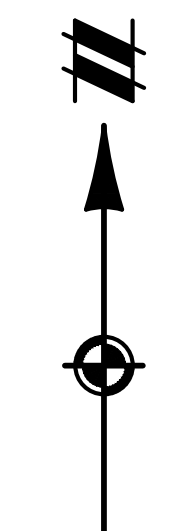
REVISIONS			
SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M. JW	BOOK		
JOB	21003645		
SHEET NO.	SPE-05		



NOT FOR CONSTRUCTION



SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36



LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL

- PROPOSED MET TOWER
 - EXISTING COUNTY ROAD
 - PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
 - PROPOSED WTG (WIND TURBINE GENERATOR)
- WTG ID
- HH, HUB HEIGHT: 119M (390 FT)
 - 118.5M (389 FT)
 - RD, ROTOR DIAMETER: 162M (531 FT)
 - 163M (535 FT)
 - APEX, TOTAL HEIGHT: 200M (656 FT)
 - 200M (656 FT)

WTG SETBACKS

- 1062' OR 1070' MIN. DISTANCE (2x RD) BETWEEN TURBINES
- 706' MIN. DISTANCE (TOTAL HEIGHT + 50') FROM:
 - THE NEAREST PUBLIC ROAD AND/OR RAILROAD DETERMINED AT THE NEAREST BOUNDARY OF THE RIGHT-OF-WAY EASEMENT AND/OR RAILROAD EASEMENT
 - THE NEAREST ABOVE-GROUND PUBLIC UTILITY TRANSMISSION LINE DETERMINED FROM THE EXISTING ABOVE-GROUND POWER LINE OR TELEPHONE LINE.
 - THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT
 - NON-PARTICIPATING PROPERTY LINE
- 1050' MIN. DISTANCE (160% OF APEX) FROM THE NEAREST DWELLING, SCHOOL, HOSPITAL, CHURCH, PUBLIC LIBRARY, OR MUNICIPAL LIMIT

NOTES:

1. ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
2. ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
3. A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
4. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.



Know what's below.
Call before you dig.

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NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OR OF ANY OTHER PERSONS.

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SECTION: REFER TO SHEETS
TOWN 03 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
PROJECT: RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 07

DATE: SEPT. 29, 2022

REVISIONS

SCALE	0	150	300
1" =	300 FEET		
DR.	GS	CH	BS
P.M. JW			
BOOK			
JOB	21003645		
SHEET NO.	SPE-07		



SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER
- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)

WTG ID

- HH, HUB HEIGHT: 119M (390 FT)
- RD, ROTOR DIAMETER: 118.5M (389 FT)
- 162M (531 FT)
- 163M (535 FT)
- APEX, TOTAL HEIGHT: 200M (656 FT)
- 200M (656 FT)

WTG SETBACKS

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 - THE NEAREST ABOVE-GROUND PUBLIC UTILITY TRANSMISSION LINE DETERMINED FROM THE EXISTING ABOVE-GROUND POWER LINE OR TELEPHONE LINE.
 - THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT
 - NON-PARTICIPATING PROPERTY LINE
 - 1050' MIN. DISTANCE (160% OF APEX) FROM THE NEAREST DWELLING, SCHOOL, HOSPITAL, CHURCH, PUBLIC LIBRARY, OR MUNICIPAL LIMIT

NOTES:

1. ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
2. ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
3. A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
4. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.



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SECTION: REFER TO SHEETS
 TOWN 09 NORTH, RANGE 14 EAST
 SPEAKER TOWNSHIP
 SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
 RIVERBEND WIND PROJECT
 SPECIAL LAND USE SITE PLANS
 SPEAKER TWP - SEC 08

DATE: SEPT. 29, 2022

REVISIONS			
SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M.	JW		
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-08		

NOT FOR CONSTRUCTION



Know what's below.

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SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
PROJECT: RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 09

DATE: SEPT. 29, 2022

REVISIONS	
SCALE	0 150 300
1" = 300 FEET	
DR.	GS CH. BS
P.M. JW	
BOOK	--
JOB	21003645
SHEET NO.	SPE-09

SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5 FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL

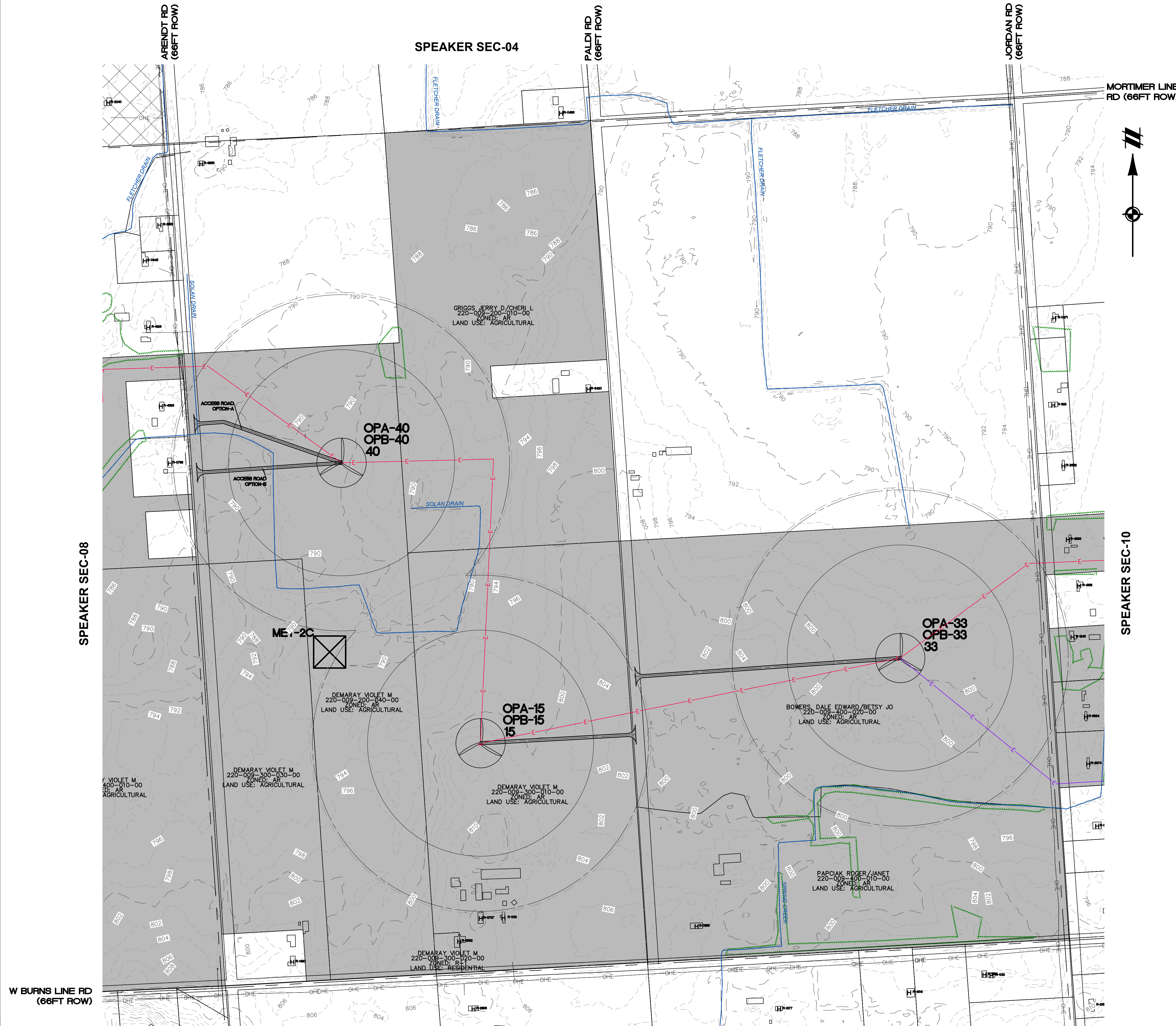
- PROPOSED MET TOWER
 - EXISTING COUNTY ROAD
 - PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
 - PROPOSED WTG (WIND TURBINE GENERATOR)
- WTG ID
- HH, HUB HEIGHT: 119M (390 FT)
 - RD, ROTOR DIAMETER: 118.5M (389 FT)
 - RD, ROTOR DIAMETER: 162M (531 FT)
 - RD, ROTOR DIAMETER: 163M (535 FT)
 - APEX, TOTAL HEIGHT: 200M (656 FT)
 - RD, ROTOR DIAMETER: 200M (656 FT)

WTG SETBACKS

- 1062' OR 1070' MIN. DISTANCE (2x RD) BETWEEN TURBINES
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 - NON-PARTICIPATING PROPERTY LINE
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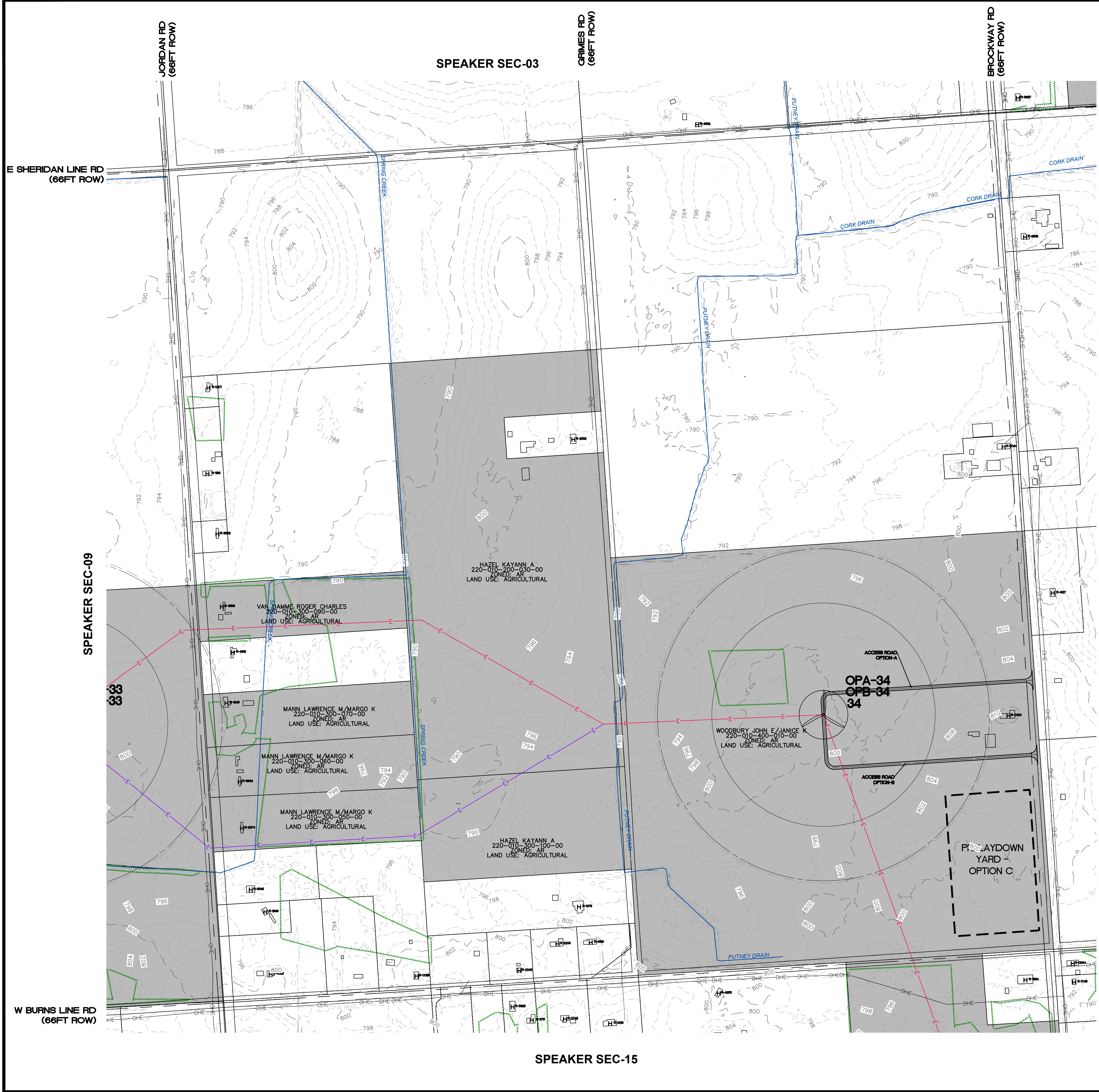
NOTES:

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4. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.



SPEAKER SEC-16

NOT FOR CONSTRUCTION



SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
 - EXISTING HABITABLE STRUCTURE
 - EXISTING ROAD R.O.W.
 - EXISTING RAILROAD
 - EXISTING SECTION LINE
 - EXISTING OVERHEAD ELECTRICAL
 - EXISTING TRANSMISSION LINE
 - EXISTING TREE LINE
 - EXISTING COUNTY DRAIN
 - EXISTING PARCEL BOUNDARY
 - RIVERBEND SIGNED PARCEL
 - RIVERBEND PENDING PARCEL
 - RIVERBEND NEGOTIATING PARCEL
 - PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
 - PROPOSED COLLECTION ALTERNATE
 - PROPOSED ACCESS ROAD GRAVEL
 - PROPOSED MET TOWER
 - EXISTING COUNTY ROAD
 - PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
 - PROPOSED WTG (WIND TURBINE GENERATOR)
- WTG ID**
- HH, HUB HEIGHT: 119M (390 FT)
 - RD, ROTOR DIAMETER: 162M (531 FT)
 - APEX, TOTAL HEIGHT: 200M (656 FT)

WTG SETBACKS

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 - THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT NON-PARTICIPATING PROPERTY LINE
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811
Know what's below.
Call before you dig.
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248.447.2000

SECTION: REFER TO SHEETS
TOWN 03 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 10

DATE: SEPT. 29, 2022

REVISIONS	
SCALE	0 150 300
1" = 300 FEET	
DR.	GS CH. BS
P.M. JW	
BOOK	--
JOB	21003645
SHEET NO.	SPE-10

CAD FILE: S: 21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\SPEAKER_SIP\21003645SPE-SIP-02-EN



SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL

WTG ID

- PROPOSED MET TOWER
 - EXISTING COUNTY ROAD
 - PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
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FREMONT TOWNSHIP

811
 Know what's below.
 Call before you dig.
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 248.447.2000

SECTION: REFER TO SHEETS
 TOWN 09 NORTH, RANGE 14 EAST
 SPEAKER TOWNSHIP
 SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (MI ENERGY DEVELOPMENTS) LLC
 RIVERBEND WIND PROJECT SPECIAL LAND USE SITE PLANS
 SPEAKER TWP - SEC 12

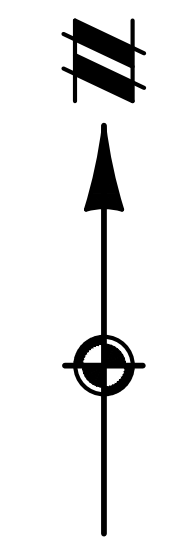
DATE: SEPT. 29, 2022

REVISIONS	
SCALE	0 150 300
1" = 300 FEET	
DR.	GS CH. BS
P.M. JW	
BOOK	--
JOB	21003645
SHEET NO.	SPE-12

CAD FILE: S: 21003645 - LIBERTY POWER RIVERBEND WIND PROJECT (UWA) PLAN SETS/SPEAKER_SIP/21003645SPE-SUP-02-EN



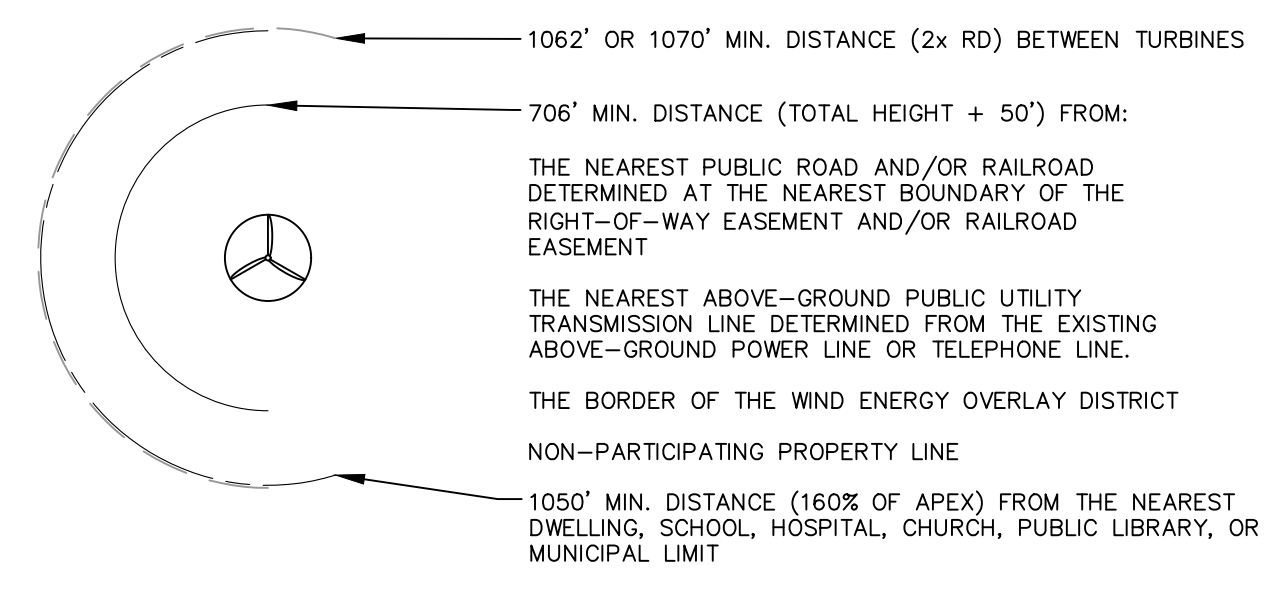
SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
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SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36



LEGEND

- EXISTING STRUCTURE
 - EXISTING HABITABLE STRUCTURE
 - EXISTING ROAD R.O.W.
 - EXISTING RAILROAD
 - EXISTING SECTION LINE
 - EXISTING OVERHEAD ELECTRICAL
 - EXISTING TRANSMISSION LINE
 - EXISTING TREE LINE
 - EXISTING COUNTY DRAIN
 - EXISTING PARCEL BOUNDARY
 - RIVERBEND SIGNED PARCEL
 - RIVERBEND PENDING PARCEL
 - RIVERBEND NEGOTIATING PARCEL
 - PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
 - PROPOSED COLLECTION ALTERNATE
 - PROPOSED ACCESS ROAD GRAVEL
 - PROPOSED MET TOWER
 - EXISTING COUNTY ROAD
 - PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
 - PROPOSED WTG (WIND TURBINE GENERATOR)
- WTG ID**
- HH, HUB HEIGHT: 119M (390 FT)
 - RD, ROTOR DIAMETER: 162M (531 FT)
 - APEX, TOTAL HEIGHT: 200M (656 FT)

WTG SETBACKS



NOTES:

1. ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
2. ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
3. A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
4. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.

811
Know what's below.
Call before you dig.
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
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SECTION: REFER TO SHEETS
TOWN 03 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 13

DATE: SEPT. 29, 2022

REVISIONS

SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS

P.M. JW
BOOK ---
JOB 21003645
SHEET NO. SPE-13

CAD FILE: S: 21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\SPEAKER_SUP\21003645SPE-SUP-02-EN

NOT FOR CONSTRUCTION



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SECTION: REFER TO SHEETS
TOWN 03 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 14

DATE: SEPT. 29, 2022

REVISIONS			
SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M.	JW		
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-14		

SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER

WTG ID

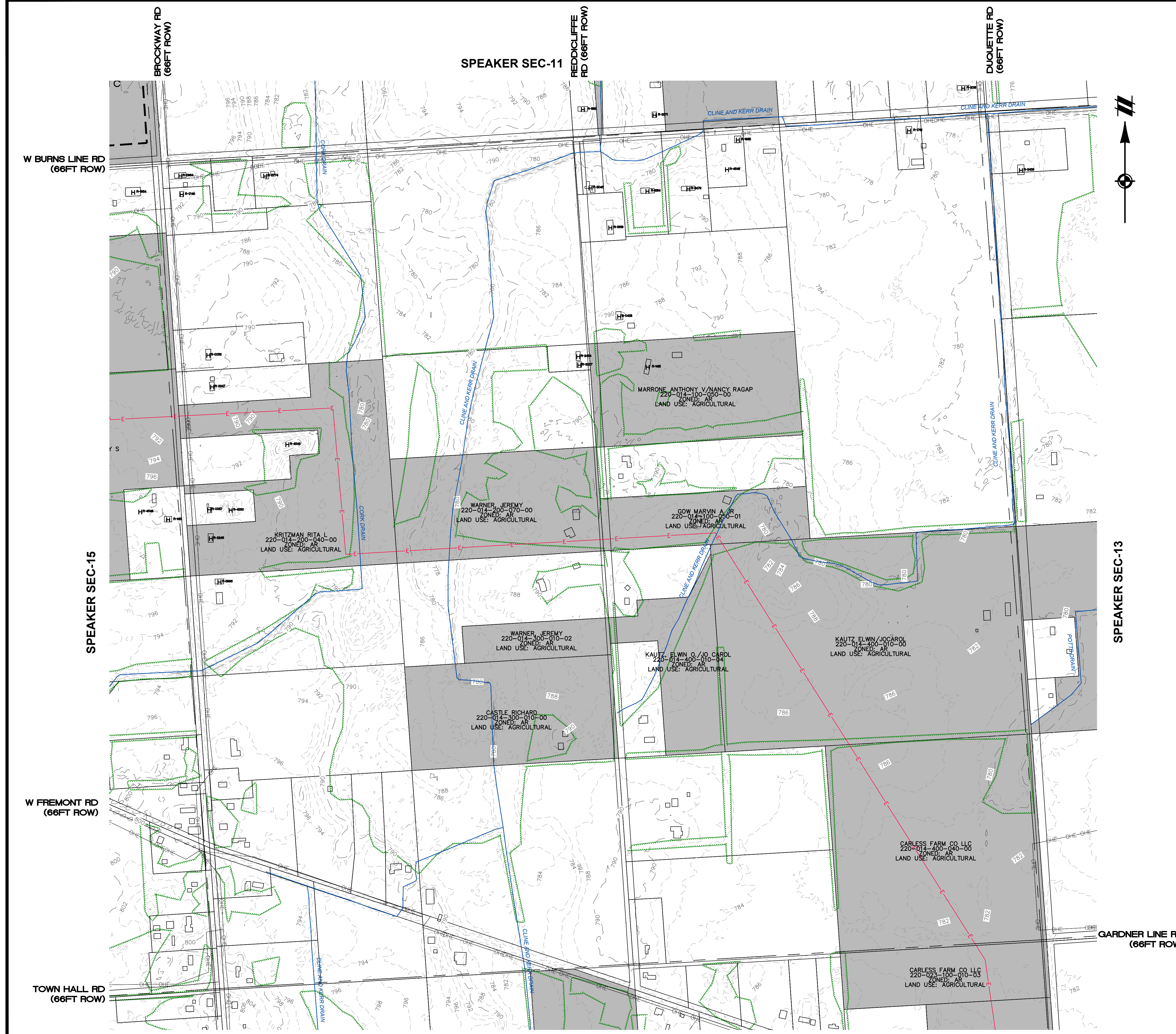
- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)
- HH, HUB HEIGHT: 119M (390 FT)
- RD, ROTOR DIAMETER: 118.5M (389 FT)
- 162M (531 FT)
- 163M (535 FT)
- APEX, TOTAL HEIGHT: 200M (656 FT)
- 200M (656 FT)

WTG SETBACKS

- 1062' OR 1070' MIN. DISTANCE (2x RD) BETWEEN TURBINES
- 706' MIN. DISTANCE (TOTAL HEIGHT + 50') FROM:
 - THE NEAREST PUBLIC ROAD AND/OR RAILROAD DETERMINED AT THE NEAREST BOUNDARY OF THE RIGHT-OF-WAY EASEMENT AND/OR RAILROAD EASEMENT
 - THE NEAREST ABOVE-GROUND PUBLIC UTILITY TRANSMISSION LINE DETERMINED FROM THE EXISTING ABOVE-GROUND POWER LINE OR TELEPHONE LINE.
 - THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT
 - NON-PARTICIPATING PROPERTY LINE
 - 1050' MIN. DISTANCE (160% OF APEX) FROM THE NEAREST DWELLING, SCHOOL, HOSPITAL, CHURCH, PUBLIC LIBRARY, OR MUNICIPAL LIMIT

NOTES:

1. ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
2. ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
3. A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
4. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.



SPEAKER SEC-23

NOT FOR CONSTRUCTION



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SECTION: REFER TO SHEETS
 TOWN 09 NORTH, RANGE 14 EAST
 SPEAKER TOWNSHIP
 SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
 RIVERBEND WIND PROJECT
 SPECIAL LAND USE SITE PLANS
 SPEAKER TWP - SEC 15

DATE: SEPT. 29, 2022

REVISIONS		
SCALE	0	150
	1" = 300 FEET	
DR.	GS	CH. BS
P.M. JW		
BOOK		
JOB	21003645	
SHEET NO.	SPE-15	

CAD FILE: S: 21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\SPEAKER_SUP\21003645SPE-SUP-02-EN

SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER

WTG ID

- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)
- HH, HUB HEIGHT: 119M (390 FT)
- RD, ROTOR DIAMETER: 162M (531 FT)
- APEX, TOTAL HEIGHT: 200M (656 FT)
- 200M (656 FT)

WTG SETBACKS

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- 706' MIN. DISTANCE (TOTAL HEIGHT + 50') FROM:
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 - THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT NON-PARTICIPATING PROPERTY LINE
 - 1050' MIN. DISTANCE (160% OF APEX) FROM THE NEAREST DWELLING, SCHOOL, HOSPITAL, CHURCH, PUBLIC LIBRARY, OR MUNICIPAL LIMIT

NOTES:

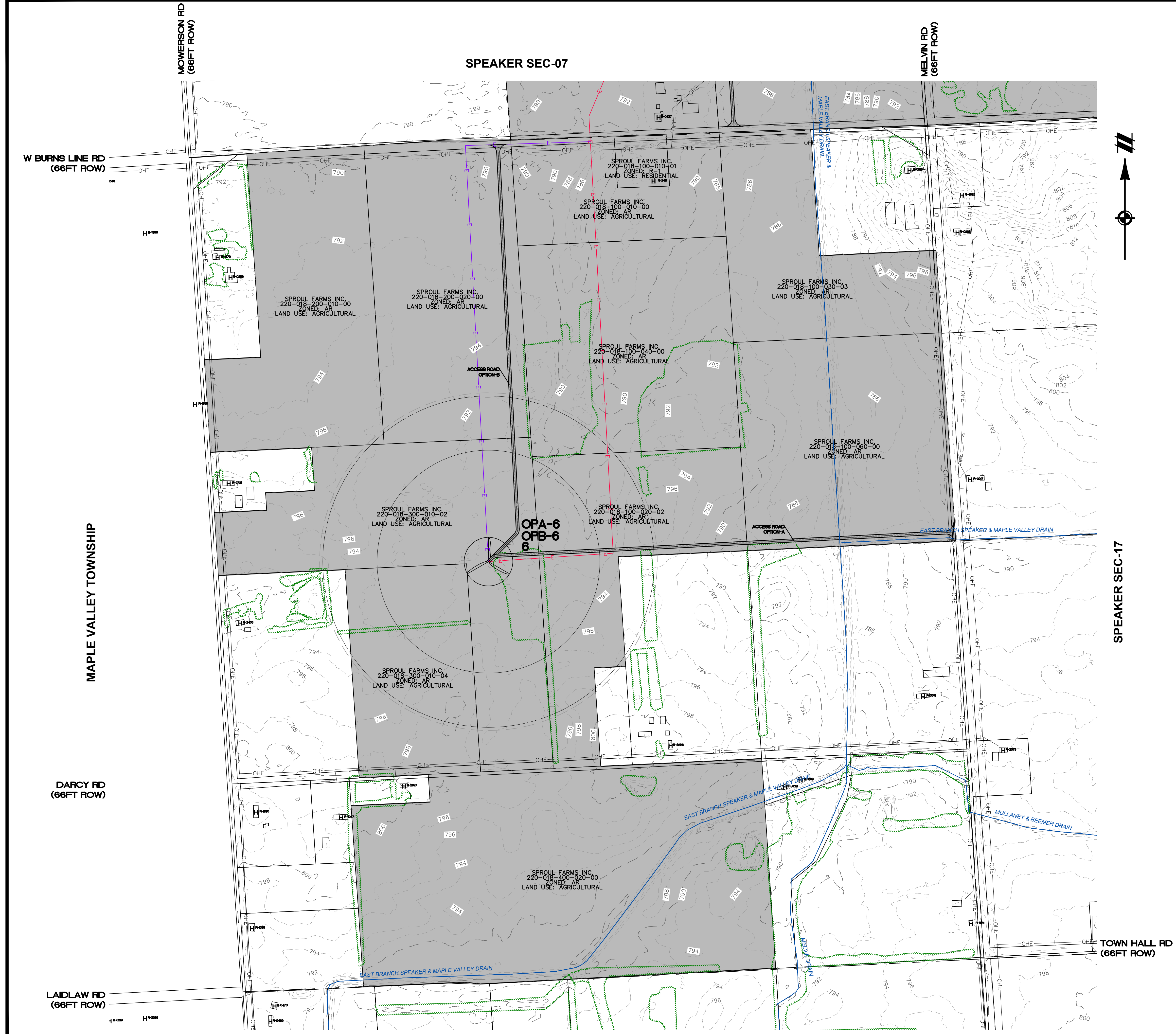
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NOT FOR CONSTRUCTION

SPEAKER SEC-07

SPEAKER SEC-19



SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER

WTG ID

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 - PROPOSED WTG (WIND TURBINE GENERATOR)
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 APEX, TOTAL HEIGHT: 200M (656 FT)
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- THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT NON-PARTICIPATING PROPERTY LINE
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SECTION: REFER TO SHEETS
TOWN 03 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 18

DATE: SEPT. 29, 2022

REVISIONS

SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M.	JW		
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-18		

SPEAKER SEC-18



SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER
- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)

WTG ID

- HH, HUB HEIGHT: 119M (390 FT)
118.5M (389 FT)
- RD, ROTOR DIAMETER: 162M (531 FT)
163M (535 FT)
- APEX, TOTAL HEIGHT: 200M (656 FT)
200M (656 FT)

WTG SETBACKS

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- 706' MIN. DISTANCE (TOTAL HEIGHT + 50') FROM:
 - THE NEAREST PUBLIC ROAD AND/OR RAILROAD DETERMINED AT THE NEAREST BOUNDARY OF THE RIGHT-OF-WAY EASEMENT AND/OR RAILROAD EASEMENT
 - THE NEAREST ABOVE-GROUND PUBLIC UTILITY TRANSMISSION LINE DETERMINED FROM THE EXISTING ABOVE-GROUND POWER LINE OR TELEPHONE LINE.
 - THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT
 - NON-PARTICIPATING PROPERTY LINE
 - 1050' MIN. DISTANCE (160% OF APEX) FROM THE NEAREST DWELLING, SCHOOL, HOSPITAL, CHURCH, PUBLIC LIBRARY, OR MUNICIPAL LIMIT

NOTES:

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248.447.2000

SECTION: REFER TO SHEETS
TOWN 03 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 19

DATE: SEPT. 29, 2022

REVISIONS

SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M.	JW		
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-19		

CAD FILE: S: 21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\SPEAKER_SUP\21003645SPE-SUP-02-EN



Know what's below.

Call before you dig.

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248.447.2000

SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 20

DATE: SEPT. 29, 2022

REVISIONS		
SCALE	0	150
	1" = 300 FEET	
DR.	GS	CH. BS
P.M. JW		
BOOK		
JOB	21003645	
SHEET NO.		
	SPE-20	

SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

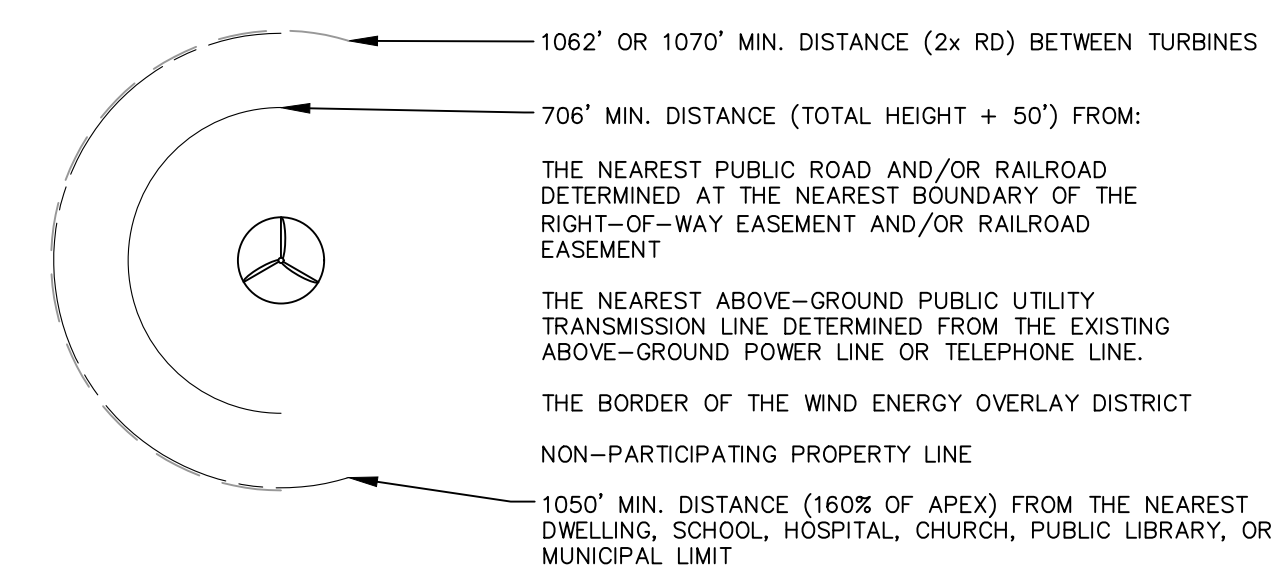
LEGEND

	EXISTING STRUCTURE
	EXISTING HABITABLE STRUCTURE
	EXISTING ROAD R.O.W.
	EXISTING RAILROAD
	EXISTING SECTION LINE
	EXISTING OVERHEAD ELECTRICAL
	EXISTING TRANSMISSION LINE
	EXISTING TREE LINE
	EXISTING COUNTY DRAIN
	EXISTING PARCEL BOUNDARY
	RIVERBEND SIGNED PARCEL
	RIVERBEND PENDING PARCEL
	RIVERBEND NEGOTIATING PARCEL
	PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
	PROPOSED COLLECTION ALTERNATE
	PROPOSED ACCESS ROAD GRAVEL
	PROPOSED MET TOWER

WTG ID

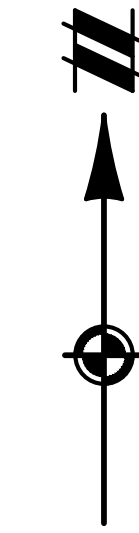
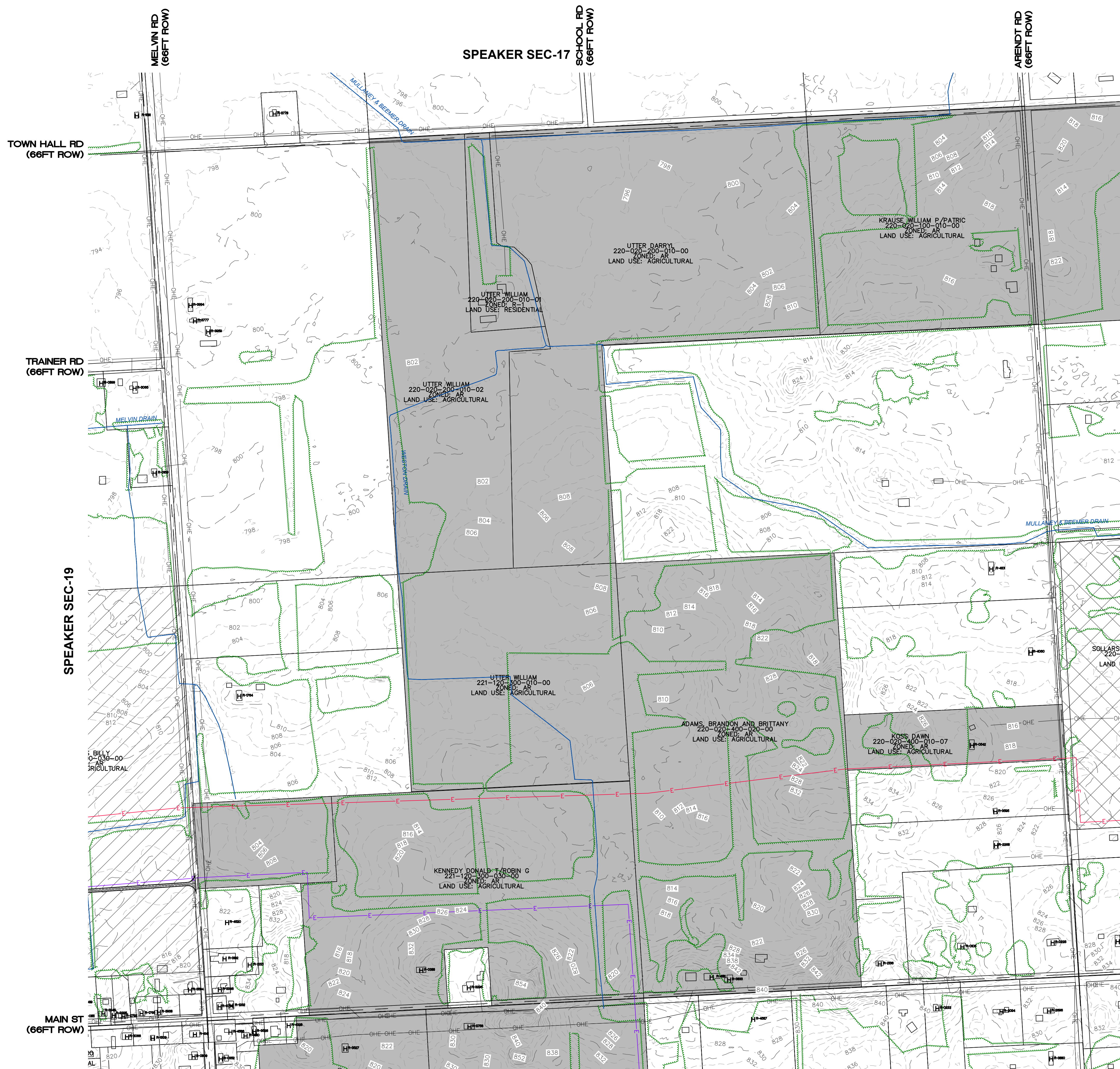
	EXISTING COUNTY ROAD
	PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
	PROPOSED WTG (WIND TURBINE GENERATOR)
	HH, HUB HEIGHT: 119M (390 FT)
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	RD, ROTOR DIAMETER: 163M (535 FT)
	APEX, TOTAL HEIGHT: 200M (656 FT)
	RD, ROTOR DIAMETER: 200M (656 FT)

WTG SETBACKS



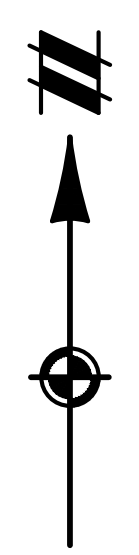
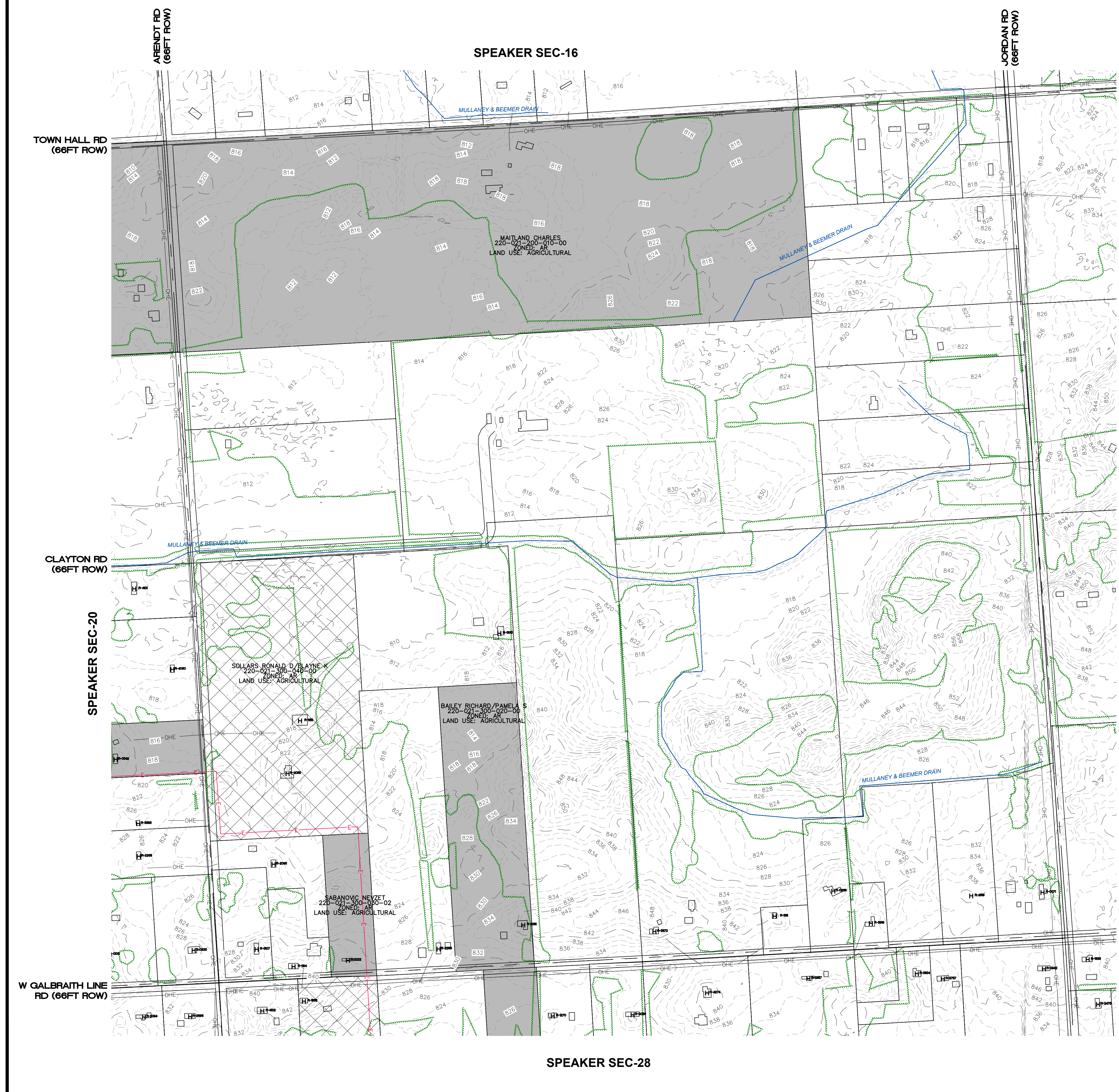
NOTES:

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- ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
- A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
- LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.



SPEAKER SEC-29

NOT FOR CONSTRUCTION

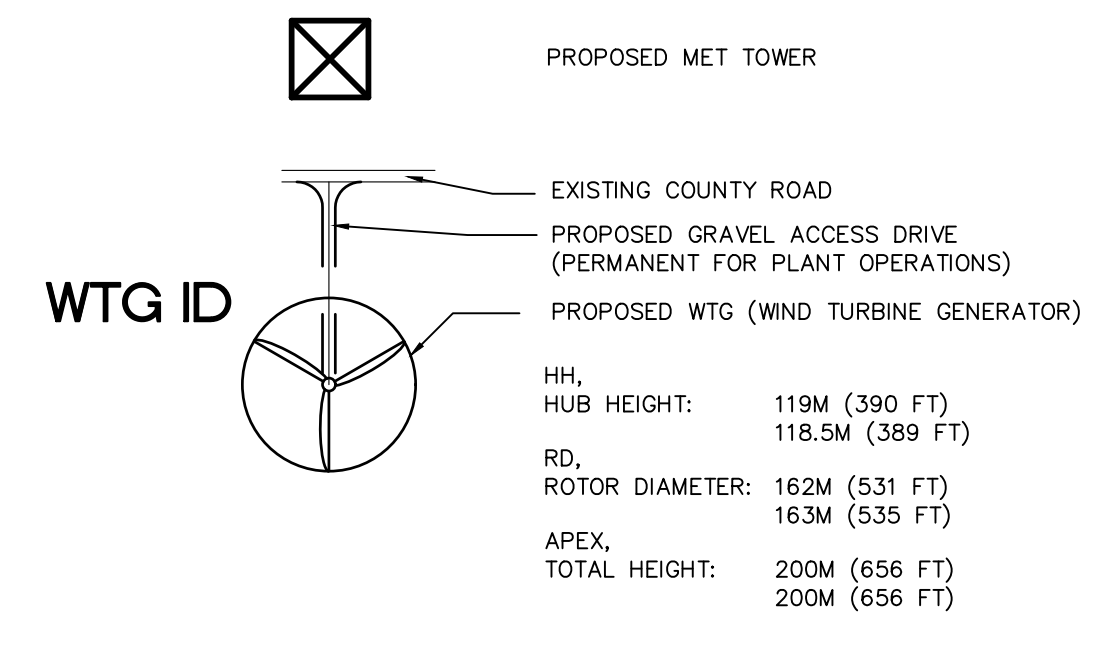


SPEAKER SEC-22

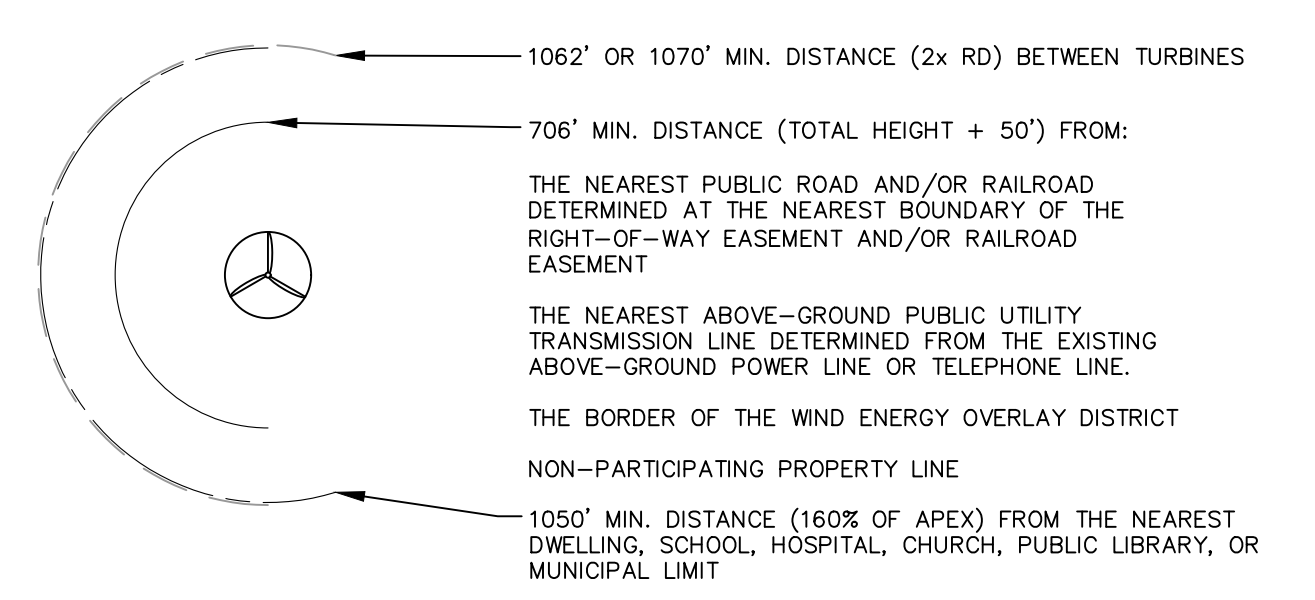
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SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL



WTG SETBACKS



NOTES:

- ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
- ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
- A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.

811
Know what's below.
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NOTICE:
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248.447.2000

SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

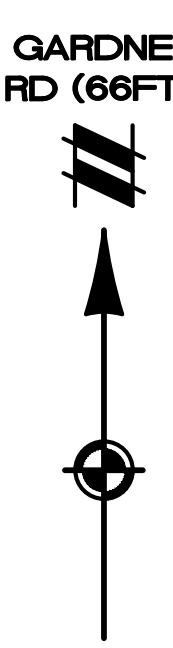
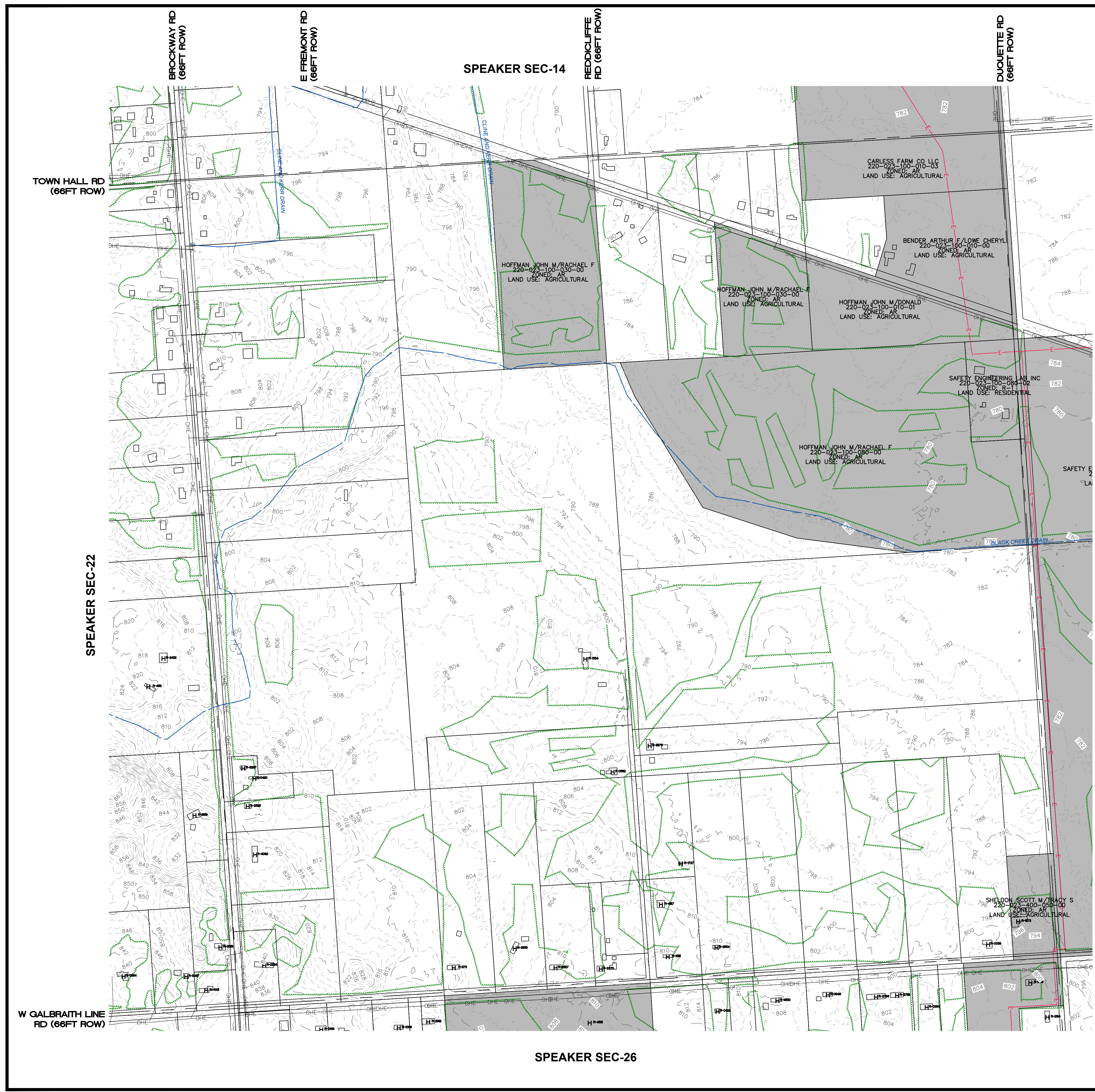
CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 21

DATE: SEPT. 29, 2022

REVISIONS

SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M. JW			
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-21		

NOT FOR CONSTRUCTION



SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER

WTG ID

- EXISTING COUNTY ROAD
 - PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
 - PROPOSED WTG (WIND TURBINE GENERATOR)
- HH, HUB HEIGHT: 119M (390 FT)
 RD, ROTOR DIAMETER: 162M (531 FT)
 APEX, TOTAL HEIGHT: 200M (656 FT)

WTG SETBACKS

- 1062' OR 1070' MIN. DISTANCE (2x RD) BETWEEN TURBINES
- 706' MIN. DISTANCE (TOTAL HEIGHT + 50') FROM:
THE NEAREST PUBLIC ROAD AND/OR RAILROAD DETERMINED AT THE NEAREST BOUNDARY OF THE RIGHT-OF-WAY EASEMENT AND/OR RAILROAD EASEMENT
- THE NEAREST ABOVE-GROUND PUBLIC UTILITY TRANSMISSION LINE DETERMINED FROM THE EXISTING ABOVE-GROUND POWER LINE OR TELEPHONE LINE
- THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT
- NON-PARTICIPATING PROPERTY LINE
- 1050' MIN. DISTANCE (160% OF APEX) FROM THE NEAREST DWELLING, SCHOOL, HOSPITAL, CHURCH, PUBLIC LIBRARY, OR MUNICIPAL LIMIT

NOTES:

1. ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
2. ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
3. A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
4. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.

811
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Call before you dig.
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NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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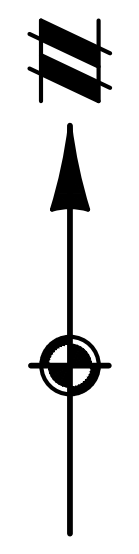
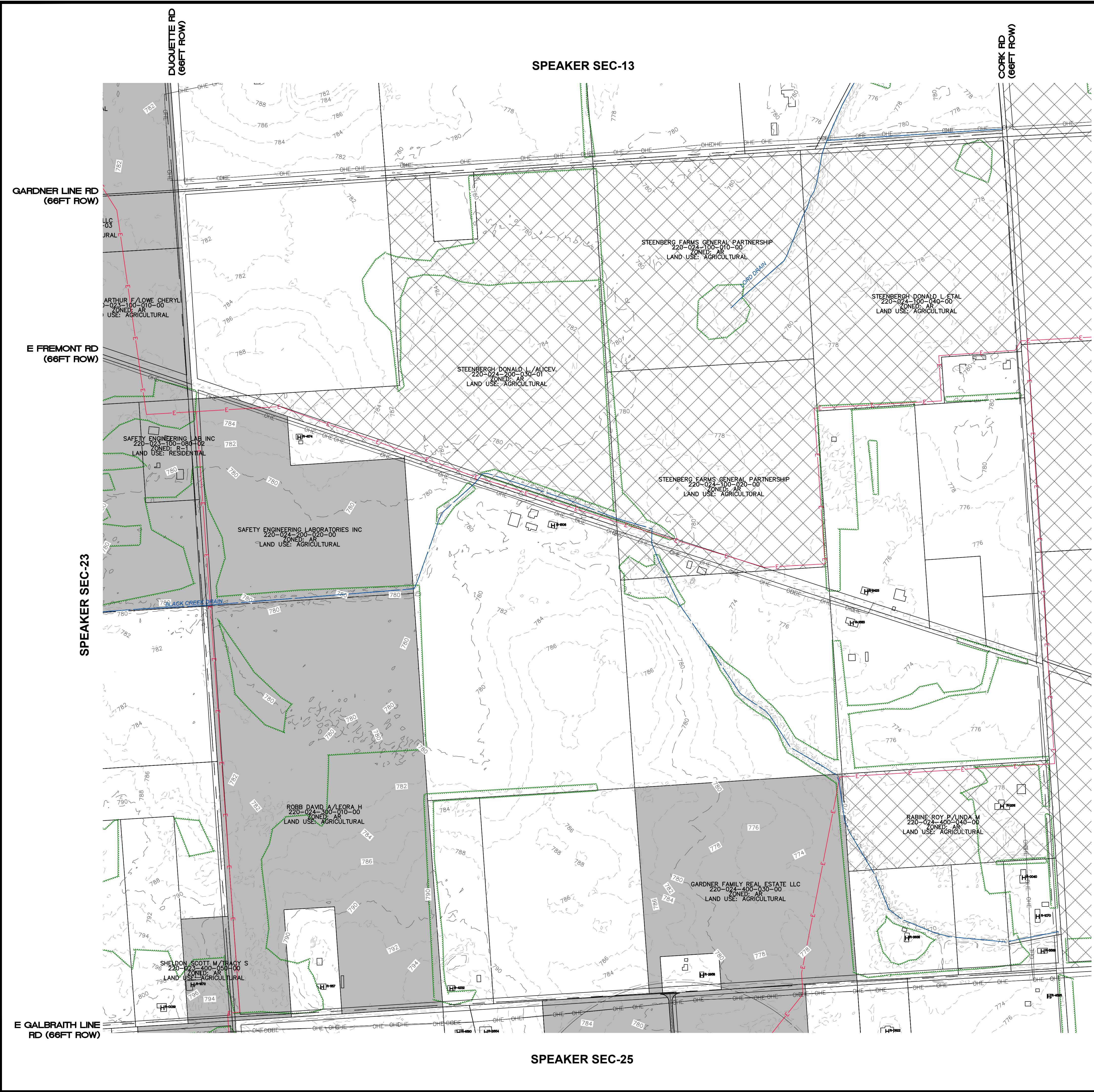
SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 23

DATE: SEPT. 29, 2022

REVISIONS		
SCALE	0	150
	300	
1" = 300 FEET		
DR.	GS	CH. BS
P.M. JW		
BOOK		
JOB	21003645	
SHEET NO.	SPE-23	

NOT FOR CONSTRUCTION



FREMONT TOWNSHIP

SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER
- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)

WTG ID

- HH, HUB HEIGHT: 119M (390 FT)
- RD, ROTOR DIAMETER: 118.5M (389 FT)
- AP, APEX, TOTAL HEIGHT: 162M (531 FT)
- BT, ROTOR DIAMETER: 163M (535 FT)
- AT, APEX, TOTAL HEIGHT: 200M (656 FT)
- BT, ROTOR DIAMETER: 200M (656 FT)

WTG SETBACKS

- 1062' OR 1070' MIN. DISTANCE (2x RD) BETWEEN TURBINES
- 706' MIN. DISTANCE (TOTAL HEIGHT + 50') FROM:
 - THE NEAREST PUBLIC ROAD AND/OR RAILROAD DETERMINED AT THE NEAREST BOUNDARY OF THE RIGHT-OF-WAY EASEMENT AND/OR RAILROAD EASEMENT
 - THE NEAREST ABOVE-GROUND PUBLIC UTILITY TRANSMISSION LINE DETERMINED FROM THE EXISTING ABOVE-GROUND POWER LINE OR TELEPHONE LINE.
 - THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT
 - NON-PARTICIPATING PROPERTY LINE
 - 1050' MIN. DISTANCE (160% OF APEX) FROM THE NEAREST DWELLING, SCHOOL, HOSPITAL, CHURCH, PUBLIC LIBRARY, OR MUNICIPAL LIMIT

NOTES:

1. ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
2. ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
3. A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
4. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.

811
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NOTICE:
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SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
PROJECT: RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 24

DATE: SEPT. 29, 2022

REVISIONS

SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M.	JW		
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-24		

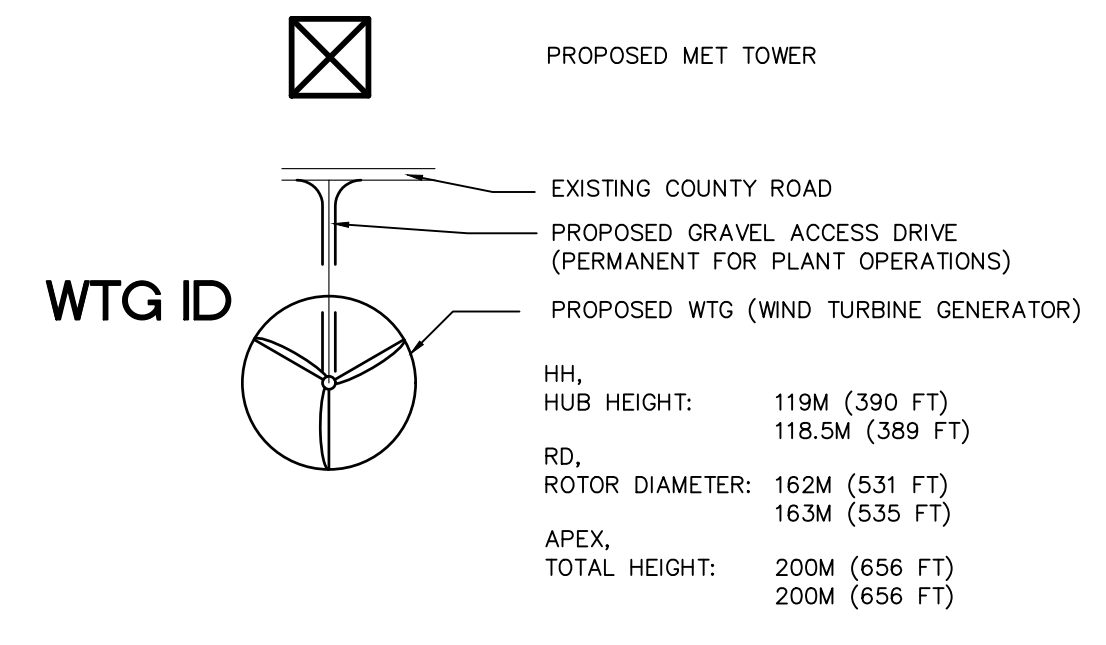
NOT FOR CONSTRUCTION



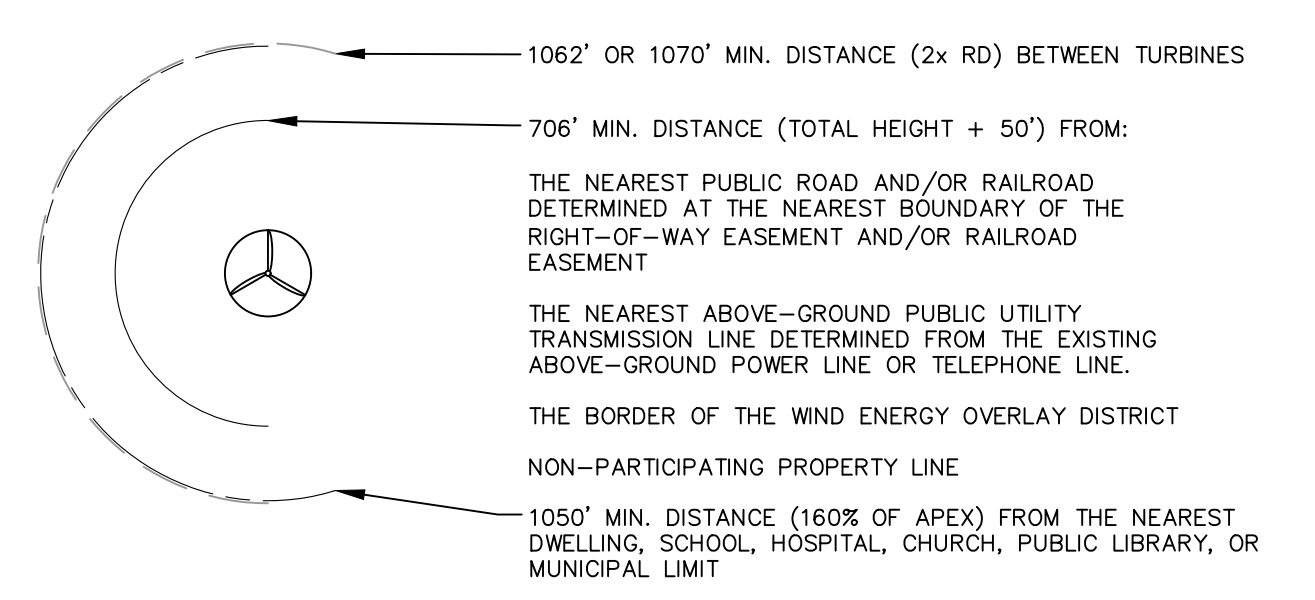
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SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL



WTG SETBACKS



NOTES:

1. ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
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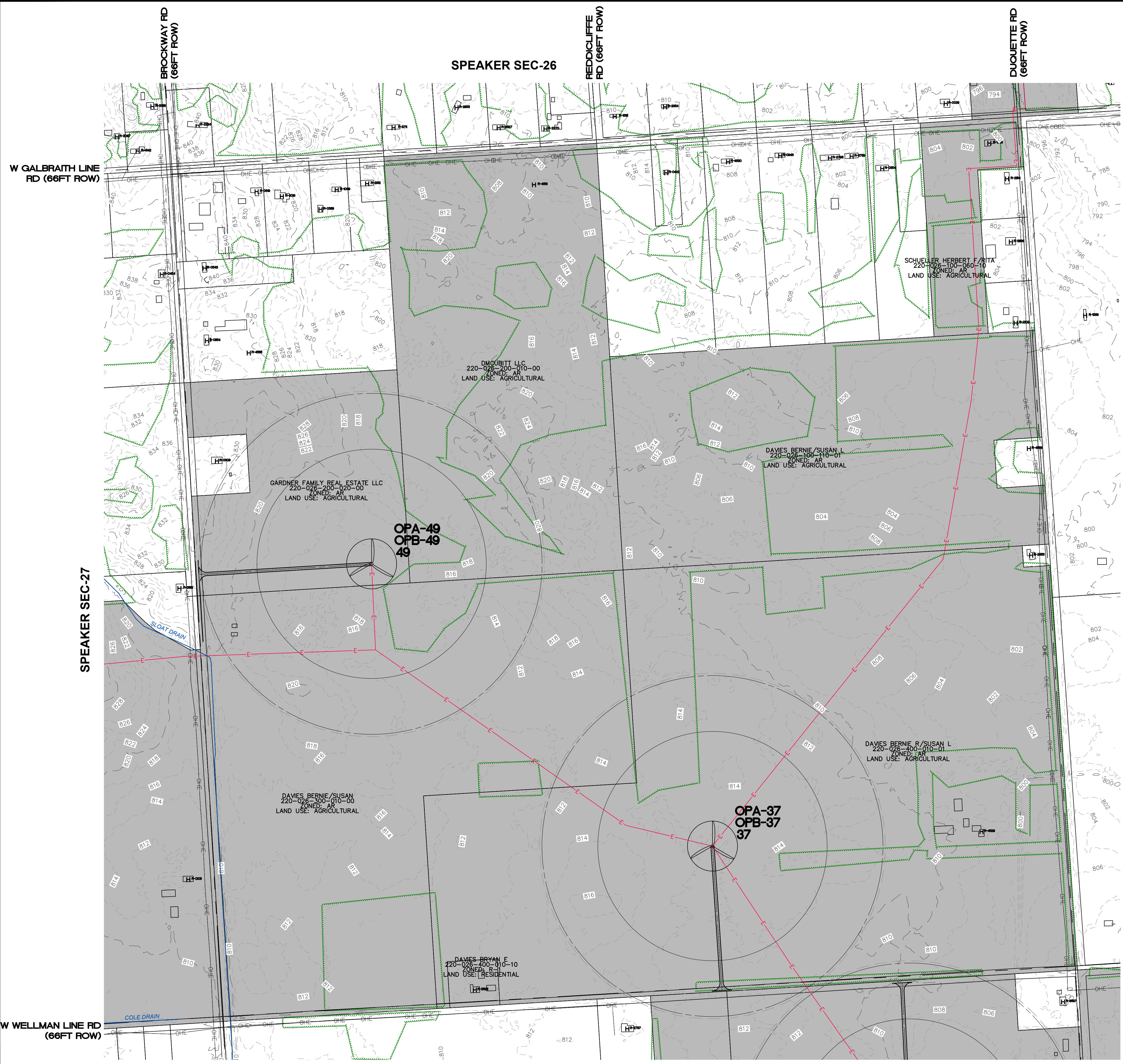
SECTION: REFER TO SHEETS
TOWN 03 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 25

DATE: SEPT. 29, 2022

REVISIONS	
SCALE	0 150 300
1" = 300 FEET	
DR.	GS CH. BS
P.M. JW	
BOOK	--
JOB	21003645
SHEET NO.	SPE-25

CAD FILE: S: 21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\SPEAKER_SIP\21003645SPE-SIP-02-EN



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SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER

WTG ID

- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)
- HH, HUB HEIGHT: 119M (390 FT)
- RD, ROTOR DIAMETER: 162M (531 FT)
- APEX, TOTAL HEIGHT: 200M (656 FT)

WTG SETBACKS

- 1062' OR 1070' MIN. DISTANCE (2x RD) BETWEEN TURBINES
- 706' MIN. DISTANCE (TOTAL HEIGHT + 50') FROM:
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NOTES:

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SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
PROJECT: RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 26

DATE: SEPT. 29, 2022

REVISIONS

SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M.	JW		
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-26		

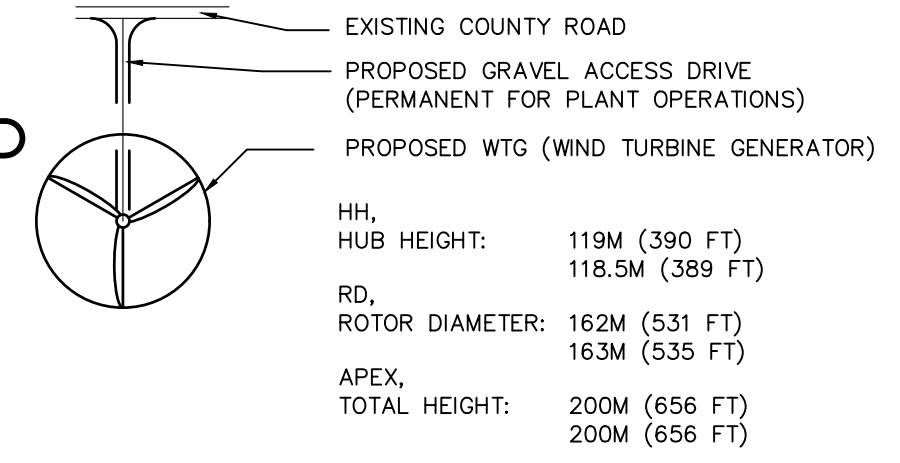


SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

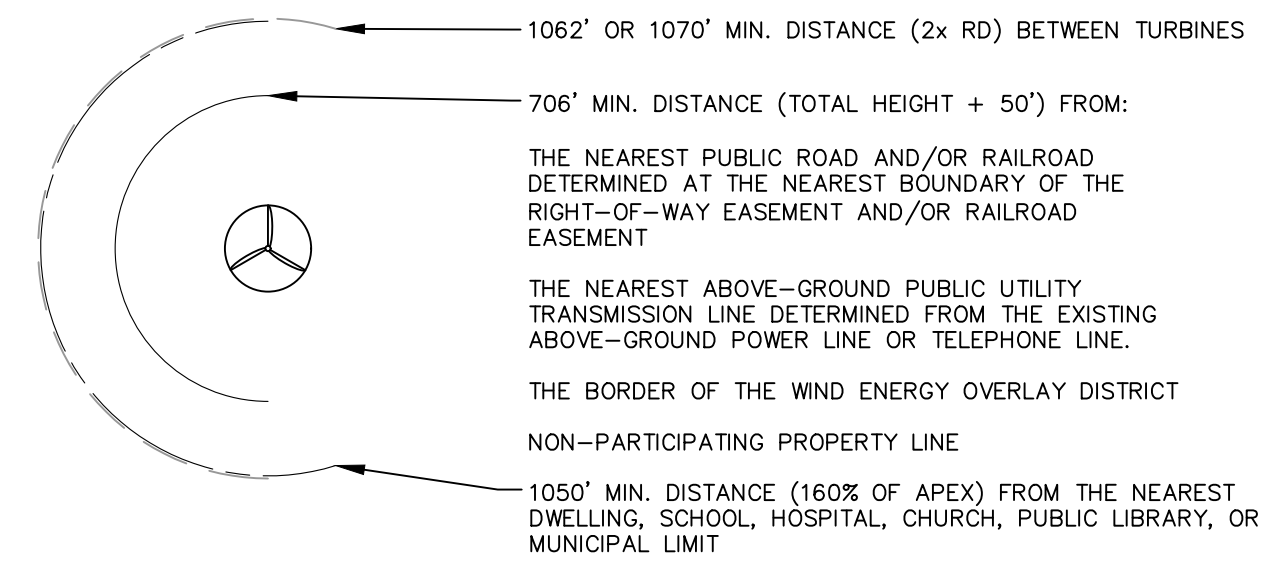
LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER
- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)

WTG ID



WTG SETBACKS



NOTES:

- ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
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- A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
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811
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Call before you dig.
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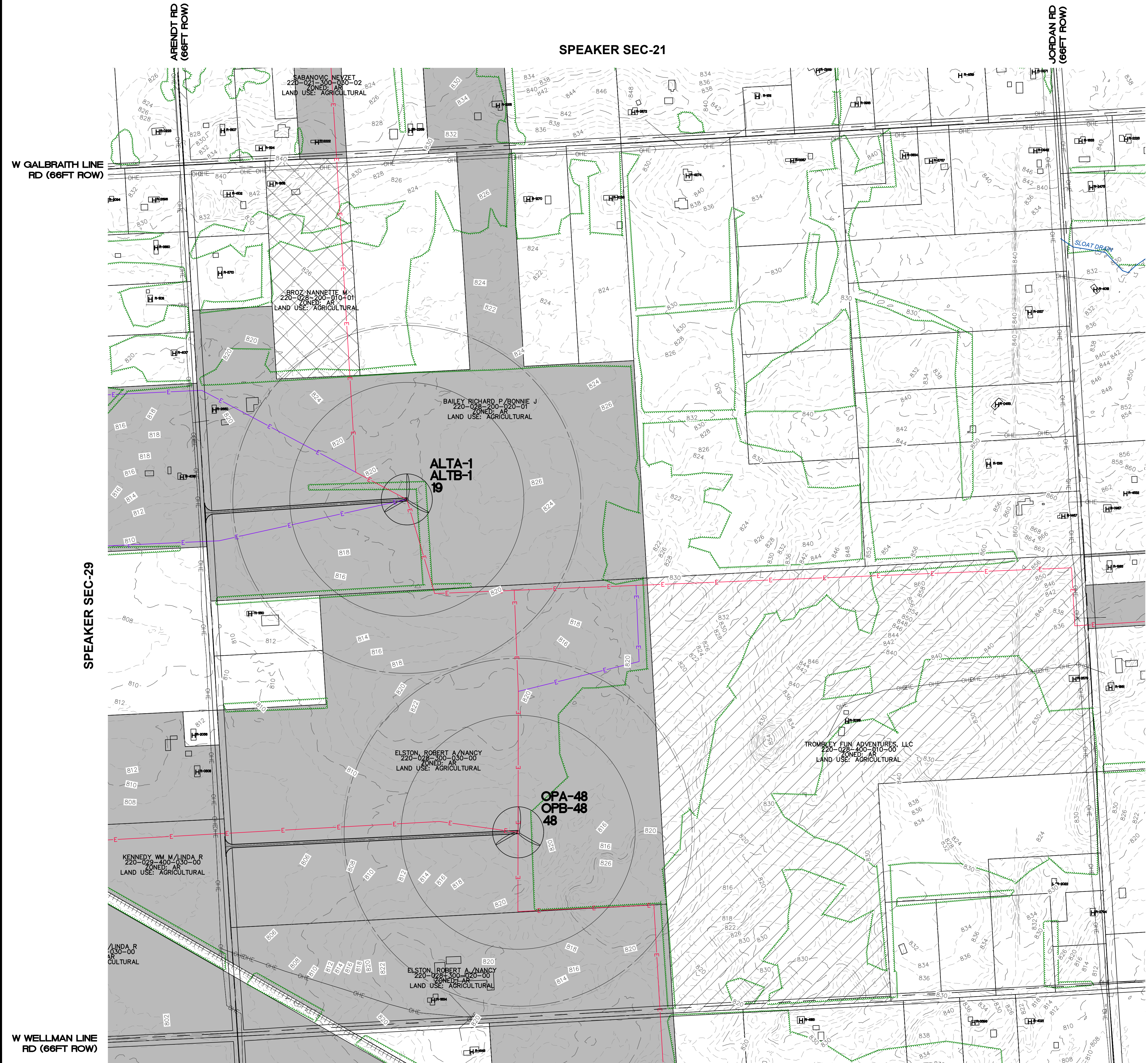
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SOUTHFIELD, MI 48076
248.447.2000

SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 27

DATE: SEPT. 29, 2022

REVISIONS	
SCALE	0 150 300
1" = 300 FEET	
DR.	GS CH. BS
P.M. JW	
BOOK	--
JOB	21003645
SHEET NO.	SPE-27

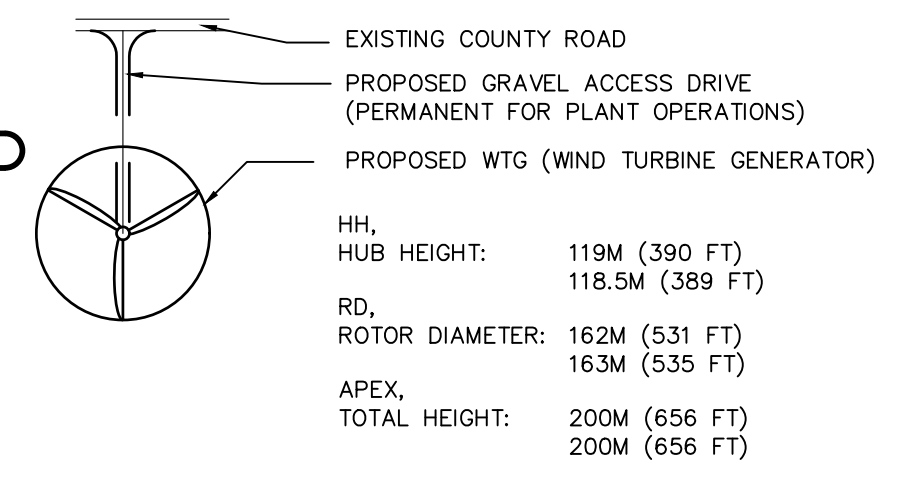


SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

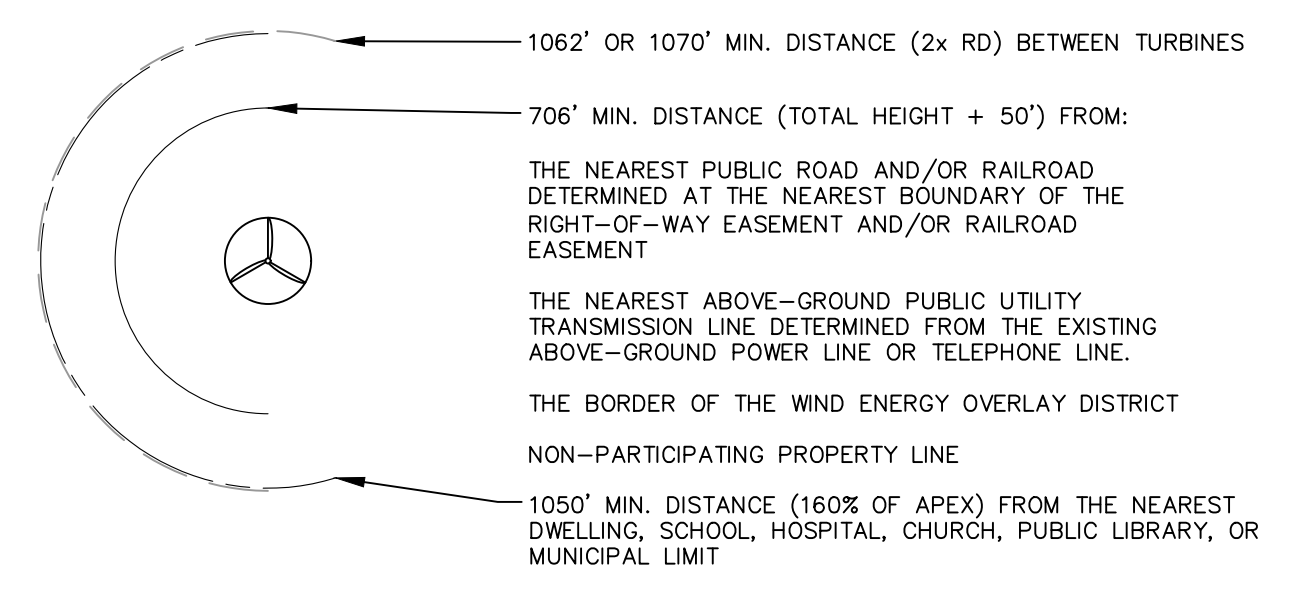
LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER
- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)

WTG ID



WTG SETBACKS



NOTES:

1. ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
2. ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
3. A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
4. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.



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THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCURRED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK OF ANY READY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 28

DATE: SEPT. 29, 2022

REVISIONS

SCALE	0	150	300
1" =	300 FEET		
DR.	GS	CH.	BS
P.M. JW			
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-28		

NOT FOR CONSTRUCTION

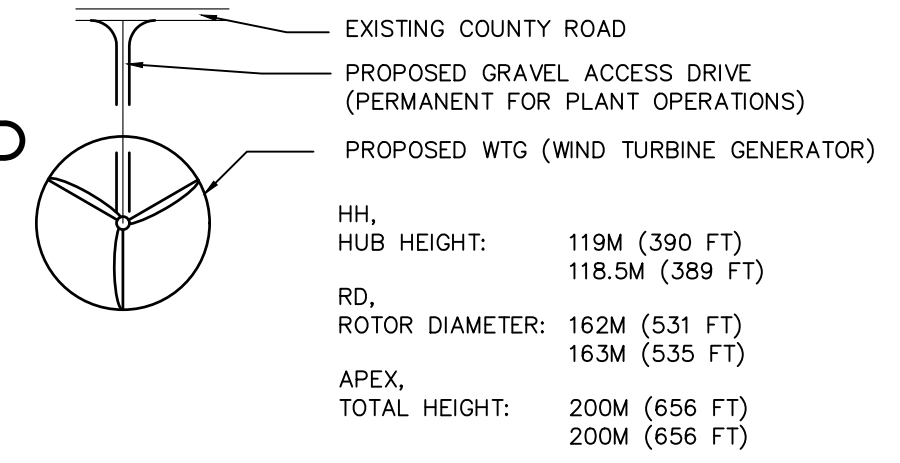


SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

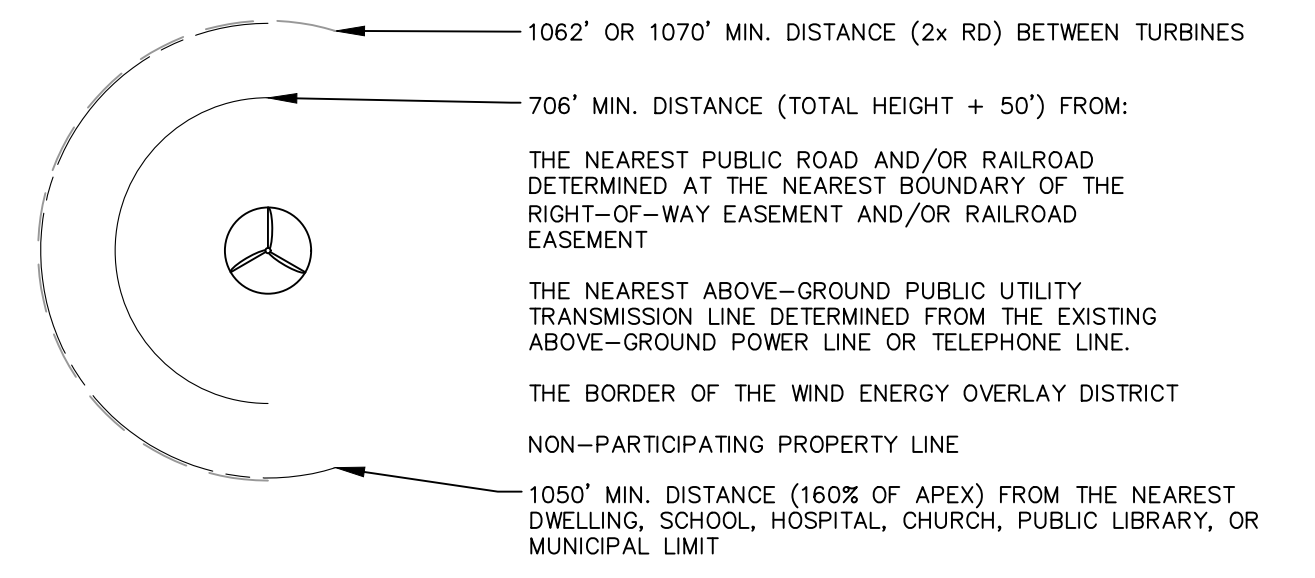
LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5 FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER

WTG ID



WTG SETBACKS



NOTES:

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3. A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
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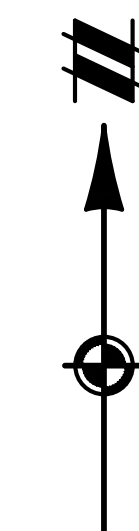
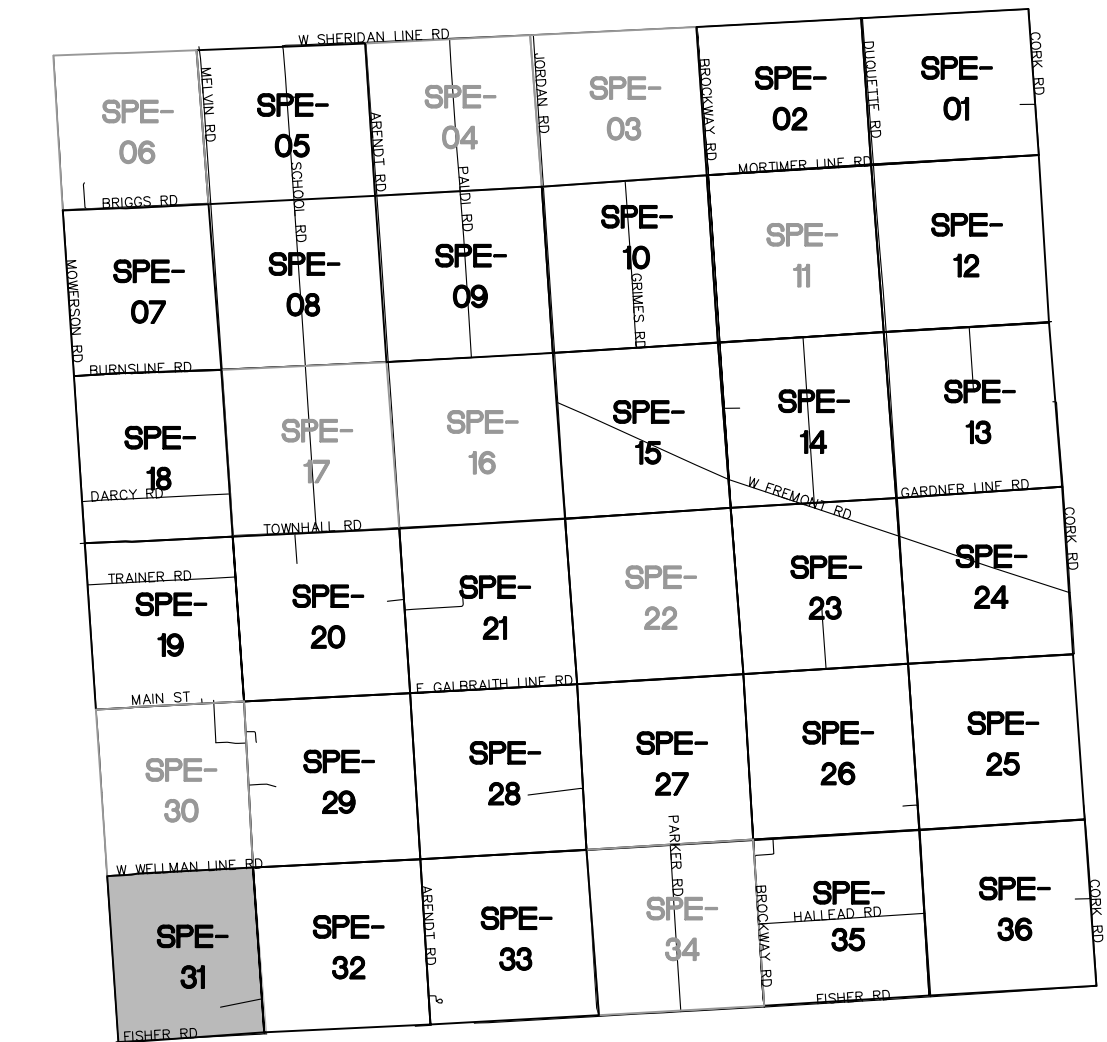
SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 29

DATE: SEPT. 29, 2022

REVISIONS	
SCALE	0 150 300
1" = 300 FEET	
DR.	GS CH. BS
P.M. JW	
BOOK	--
JOB	21003645
SHEET NO.	SPE-29

CAD FILE: S: 21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\SPEAKER_SIP\21003645SPE-SIP-02-EN



LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER

WTG ID

WTG SETBACKS

- 1062' OR 1070' MIN. DISTANCE (2x RD) BETWEEN TURBINES
- 706' MIN. DISTANCE (TOTAL HEIGHT + 50') FROM:
 - THE NEAREST PUBLIC ROAD AND/OR RAILROAD DETERMINED AT THE NEAREST BOUNDARY OF THE RIGHT-OF-WAY EASEMENT AND/OR RAILROAD EASEMENT
 - THE NEAREST ABOVE-GROUND PUBLIC UTILITY TRANSMISSION LINE DETERMINED FROM THE EXISTING ABOVE-GROUND POWER LINE OR TELEPHONE LINE.
 - THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT
 - NON-PARTICIPATING PROPERTY LINE
 - 1050' MIN. DISTANCE (160% OF APEX) FROM THE NEAREST DWELLING, SCHOOL, HOSPITAL, CHURCH, PUBLIC LIBRARY, OR MUNICIPAL LIMIT

NOTES:

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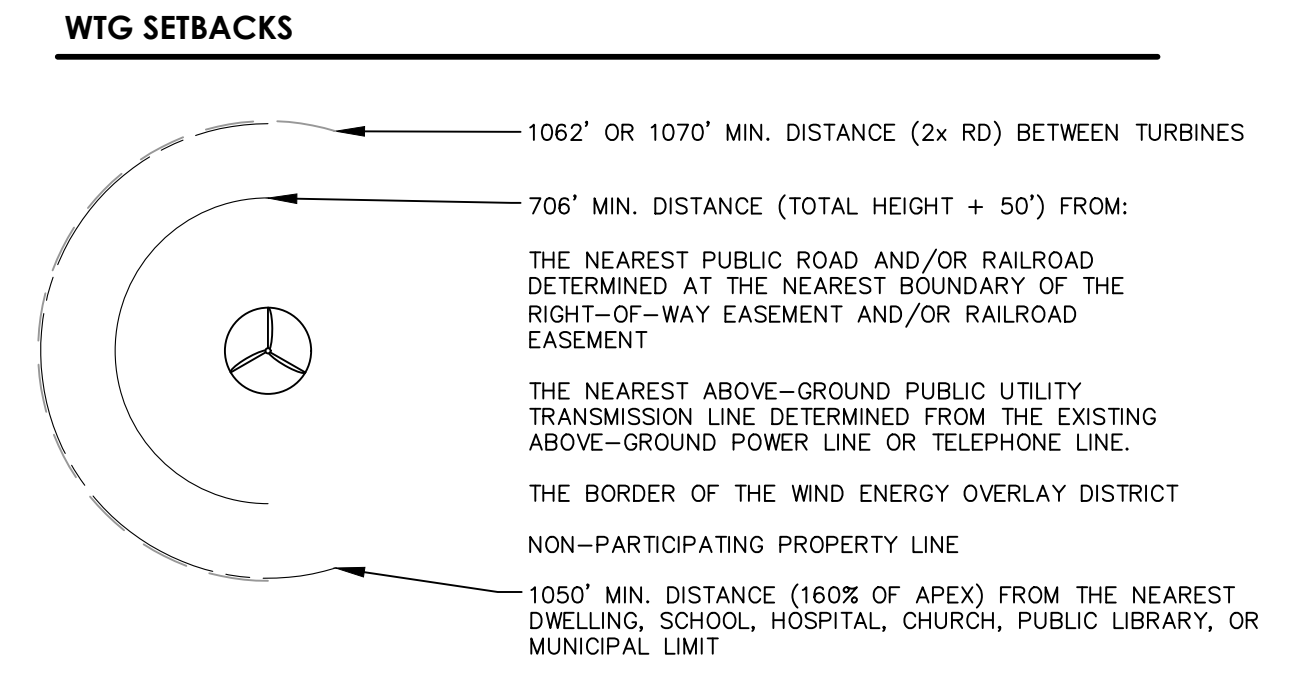
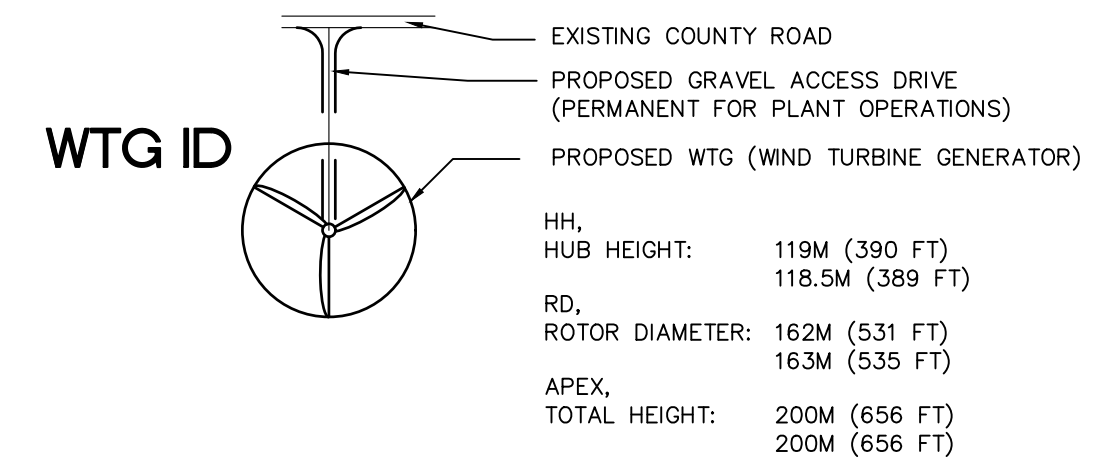
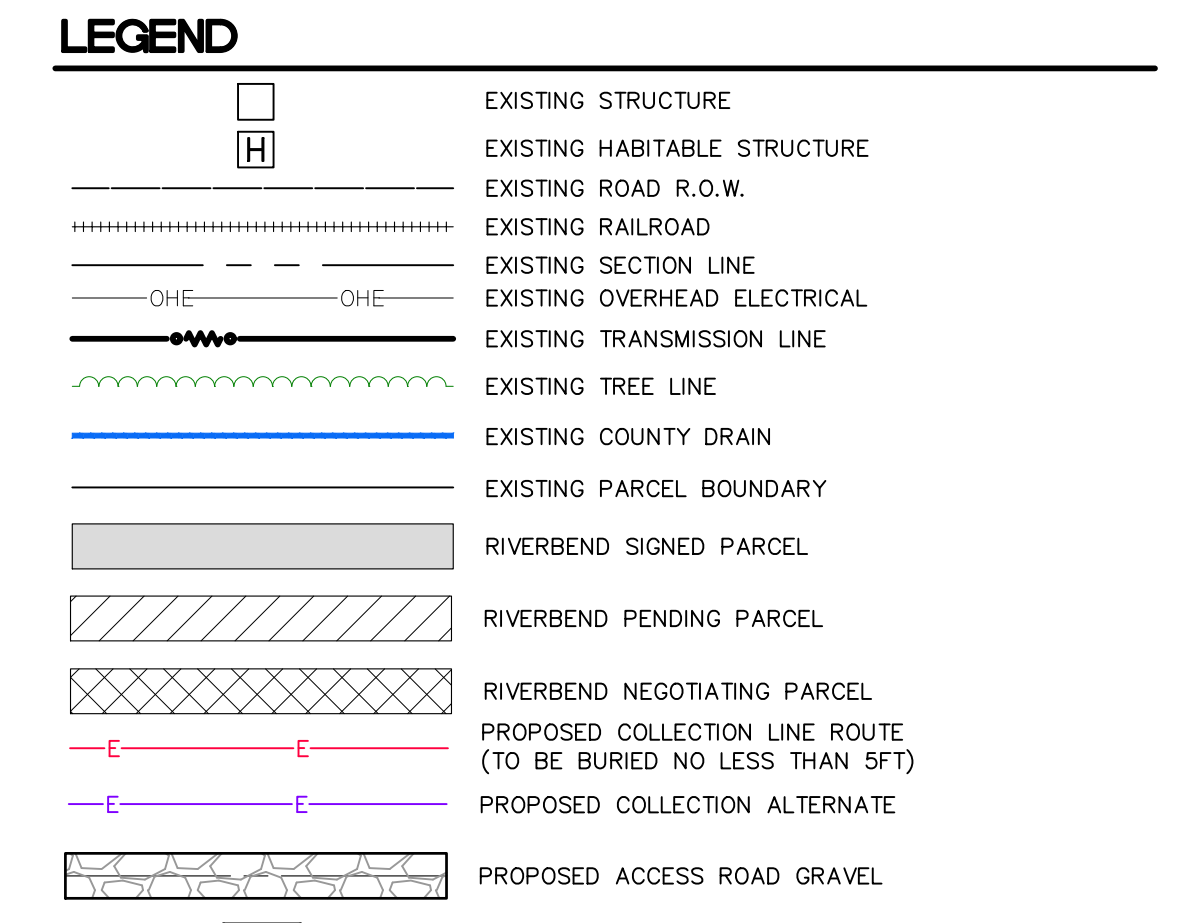
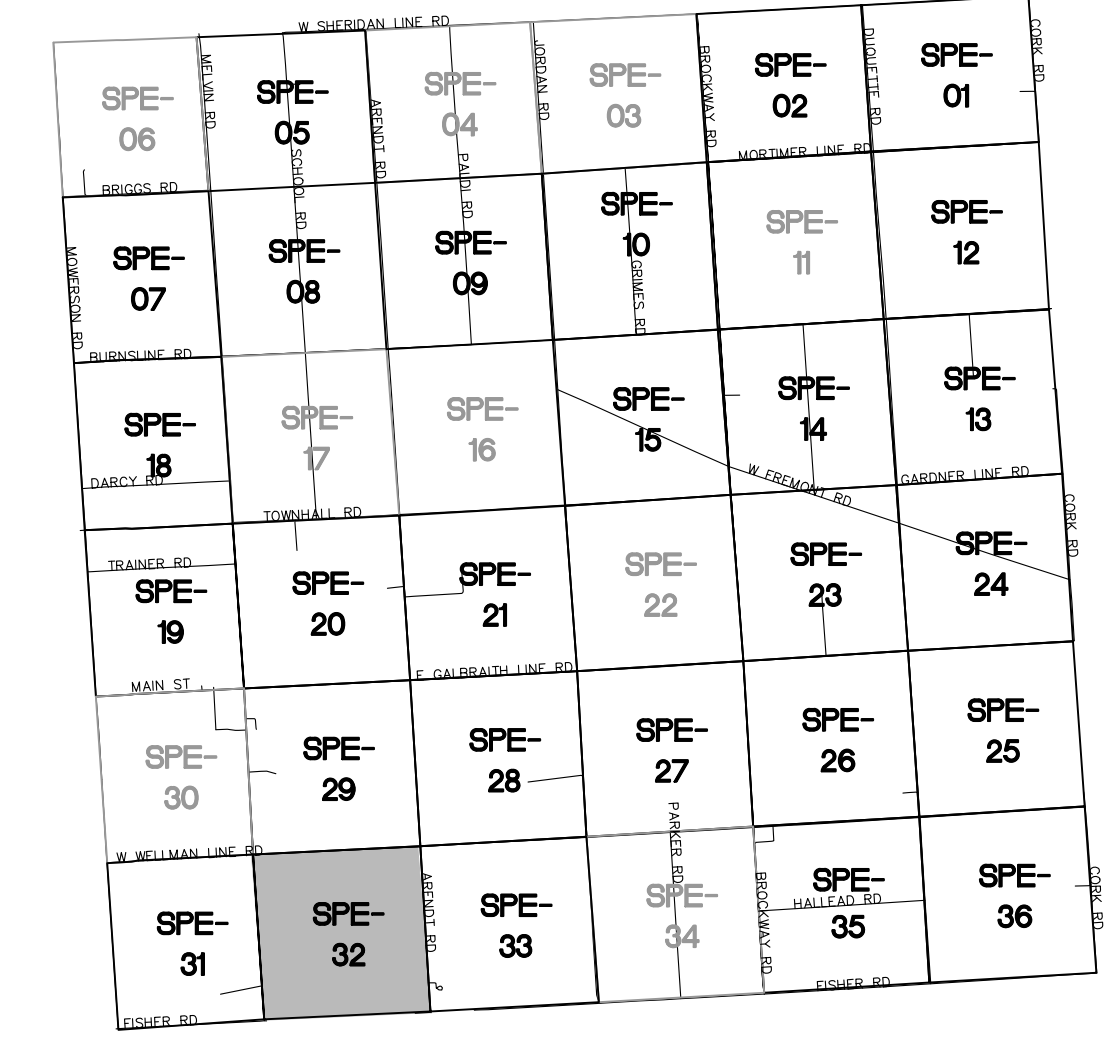
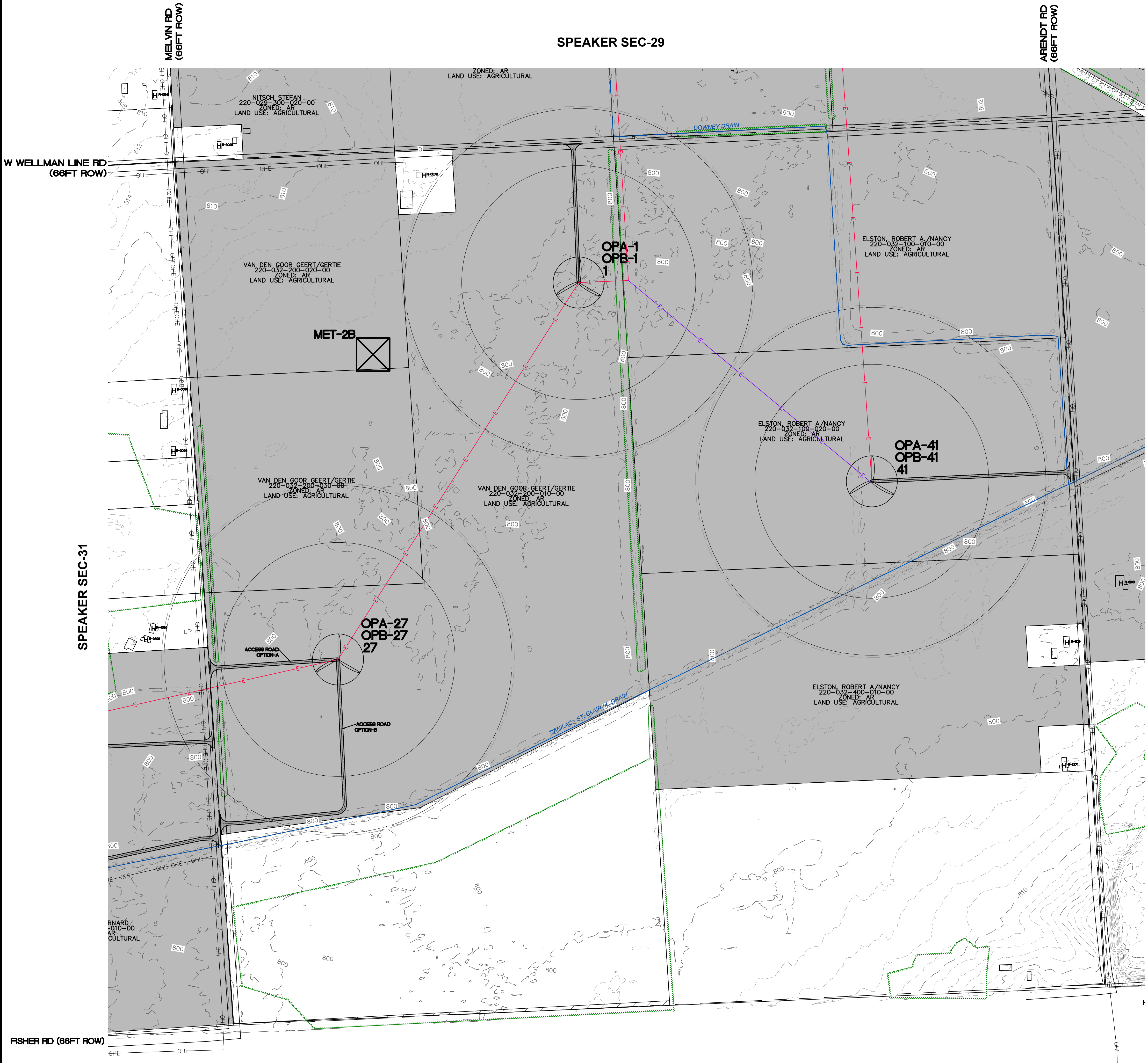
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 248.447.2000

SECTION: REFER TO SHEETS
 TOWN 09 NORTH, RANGE 14 EAST
 SPEAKER TOWNSHIP
 SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
 PROJECT: RIVERBEND WIND PROJECT SPECIAL LAND USE SITE PLANS
 SHEET: SPEAKER TWP - SEC 31

DATE: SEPT. 29, 2022

REVISIONS	
SCALE	0 150 300
1" = 300 FEET	
DR.	GS CH. BS
P.M. JW	
BOOK	--
JOB	21003645
SHEET NO.	SPE-31



- NOTES:
- ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
 - ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
 - A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
 - LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.

811
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248.447.2000

SECTION: REFER TO SHEETS
TOWN 03 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

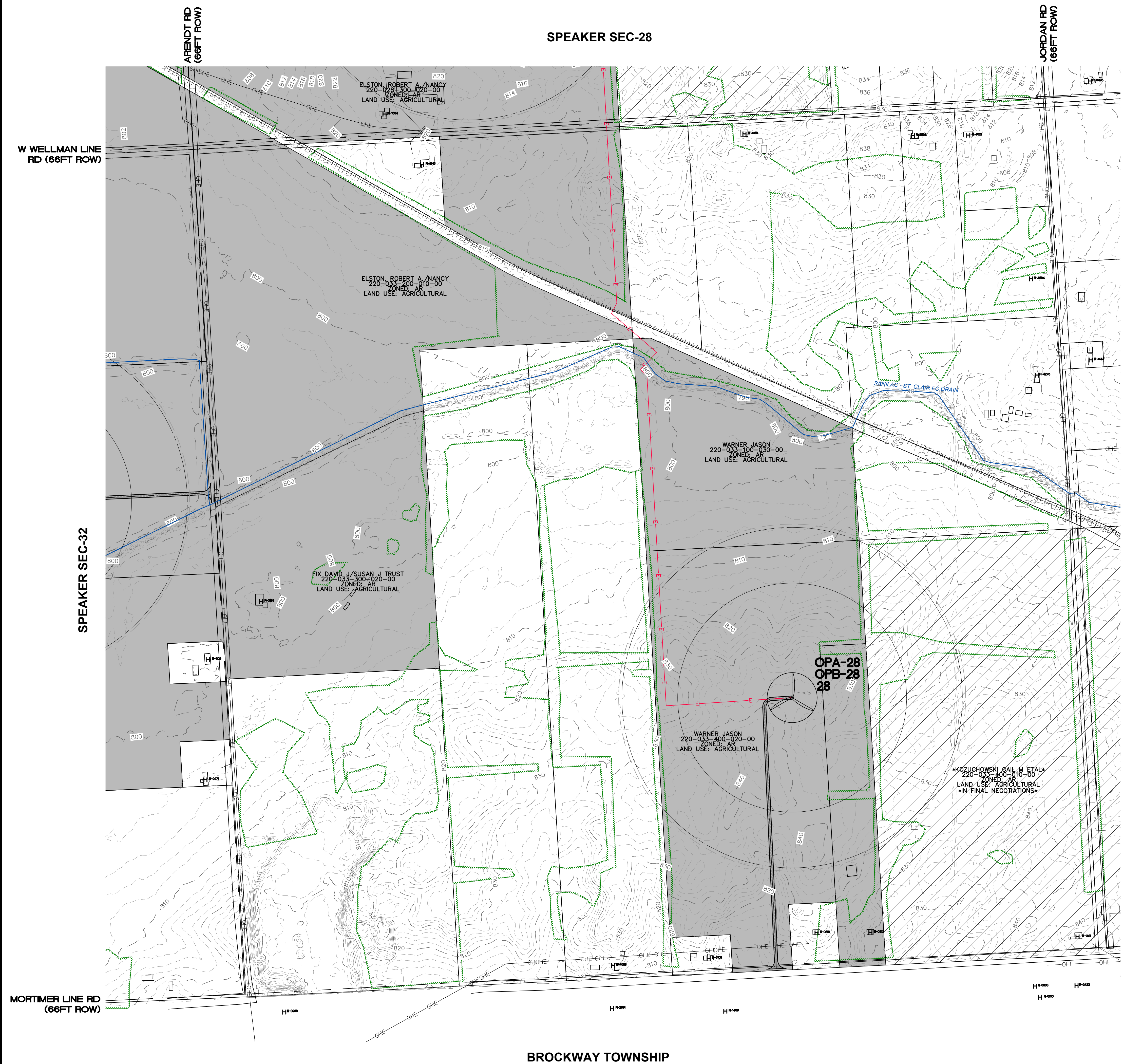
CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
PROJECT: RIVERBEND WIND PROJECT SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 32

DATE: SEPT. 29, 2022

REVISIONS

SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M. JW			
BOOK			
JOB	21003645		
SHEET NO.	SPE-32		

NOT FOR CONSTRUCTION



SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

	EXISTING STRUCTURE
	EXISTING HABITABLE STRUCTURE
	EXISTING ROAD R.O.W.
	EXISTING RAILROAD
	EXISTING SECTION LINE
	EXISTING OVERHEAD ELECTRICAL
	EXISTING TRANSMISSION LINE
	EXISTING TREE LINE
	EXISTING COUNTY DRAIN
	EXISTING PARCEL BOUNDARY
	RIVERBEND SIGNED PARCEL
	RIVERBEND PENDING PARCEL
	RIVERBEND NEGOTIATING PARCEL
	PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5 FT)
	PROPOSED COLLECTION ALTERNATE
	PROPOSED ACCESS ROAD GRAVEL
	PROPOSED MET TOWER

WTG ID

	EXISTING COUNTY ROAD
	PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
	PROPOSED WTG (WIND TURBINE GENERATOR)
HH	119M (390 FT)
HUB HEIGHT:	118.5M (389 FT)
RD	162M (531 FT)
ROTOR DIAMETER:	163M (535 FT)
APEX	200M (656 FT)
TOTAL HEIGHT:	200M (656 FT)

WTG SETBACKS

	1062' OR 1070' MIN. DISTANCE (2x RD) BETWEEN TURBINES
	706' MIN. DISTANCE (TOTAL HEIGHT + 50') FROM: THE NEAREST PUBLIC ROAD AND/OR RAILROAD DETERMINED AT THE NEAREST BOUNDARY OF THE RIGHT-OF-WAY EASEMENT AND/OR RAILROAD EASEMENT
	THE NEAREST ABOVE-GROUND PUBLIC UTILITY TRANSMISSION LINE DETERMINED FROM THE EXISTING ABOVE-GROUND POWER LINE OR TELEPHONE LINE.
	THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT
	NON-PARTICIPATING PROPERTY LINE
	1050' MIN. DISTANCE (160% OF APEX) FROM THE NEAREST DWELLING, SCHOOL, HOSPITAL, CHURCH, PUBLIC LIBRARY, OR MUNICIPAL LIMIT

- NOTES:**
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 - LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.

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248.447.2000

SECTION: REFER TO SHEETS
TOWN 03 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 33

DATE: SEPT. 29, 2022

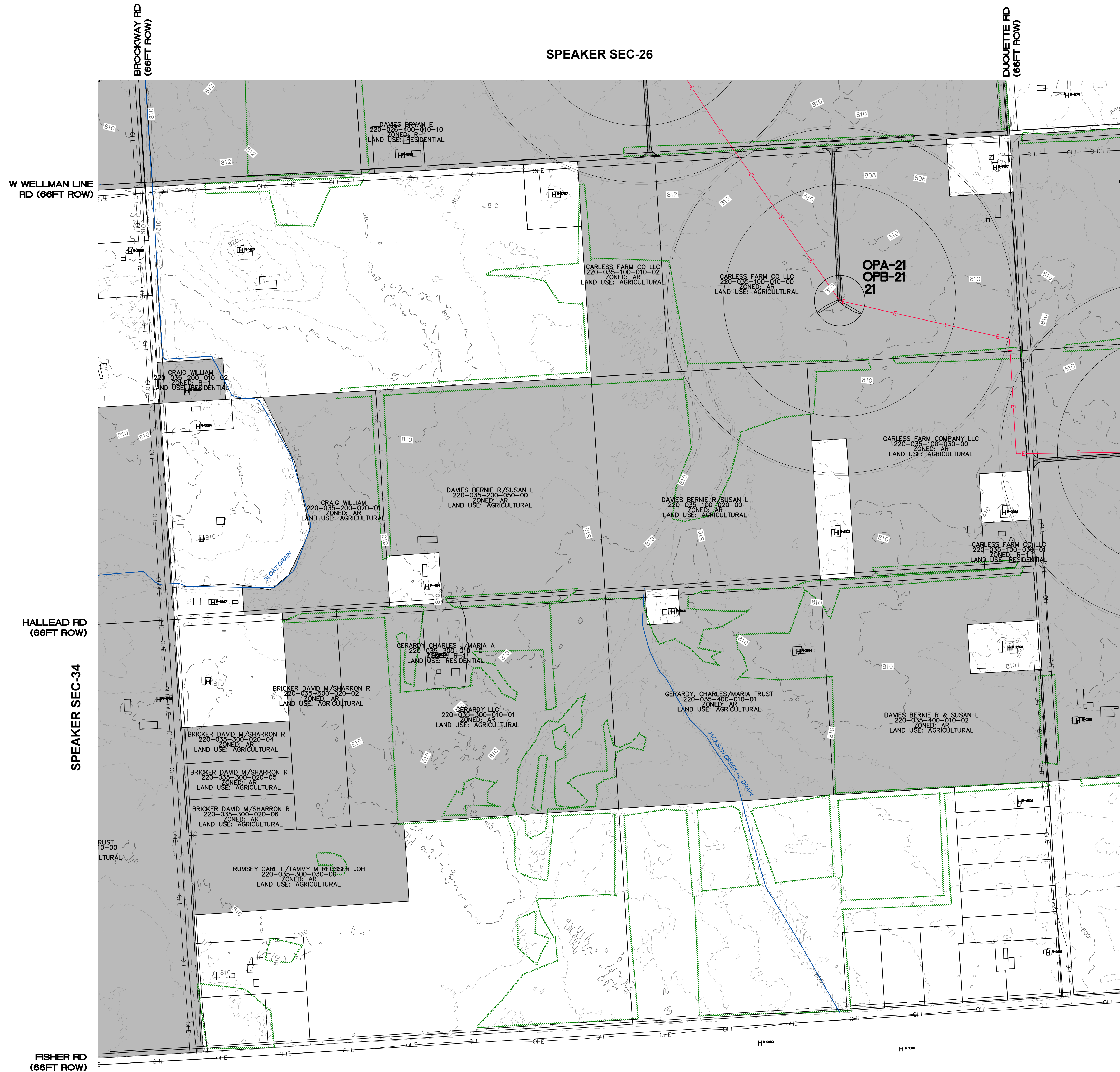
REVISIONS

SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M.	JW		
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-33		

CAD FILE: S: 21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\SPEAKER_SUP\21003645SPE-SUP-02-EN

NOT FOR CONSTRUCTION

SPEAKER SEC-26



BROCKWAY TOWNSHIP

SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
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SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

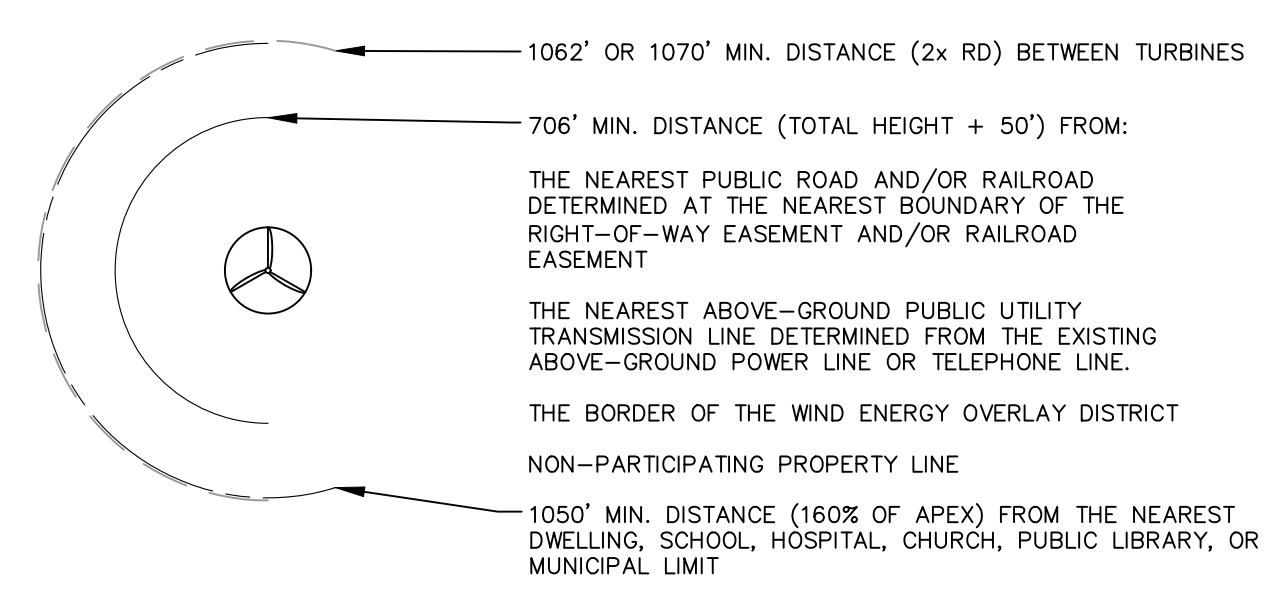
SPEAKER SEC-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL

- PROPOSED MET TOWER
 - EXISTING COUNTY ROAD
 - PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
 - PROPOSED WTG (WIND TURBINE GENERATOR)
- WTG ID**
 HH, HUB HEIGHT: 119M (390 FT)
 RD, 118.5M (389 FT)
 ROTOR DIAMETER: 162M (531 FT)
 163M (535 FT)
 APEX, TOTAL HEIGHT: 200M (656 FT)
 200M (656 FT)

WTG SETBACKS



NOTES:

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2. ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
3. A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
4. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.

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 SANILAC COUNTY, MICHIGAN

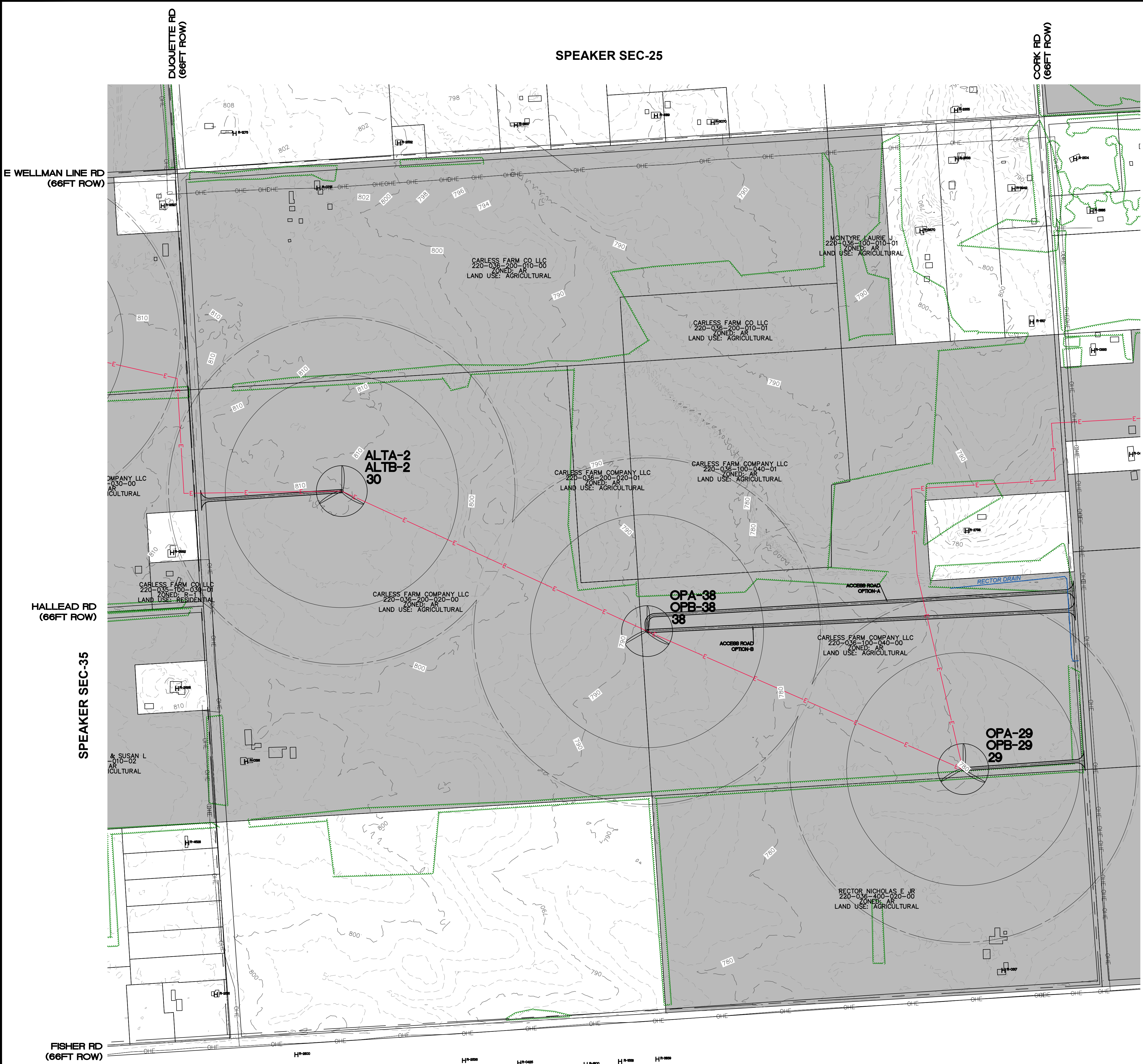
CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
 PROJECT: RIVERBEND WIND PROJECT
 SPECIAL LAND USE SITE PLANS
 SPEAKER TWP - SEC 35

DATE: SEPT. 29, 2022

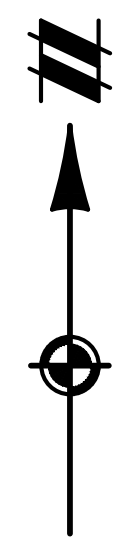
REVISIONS

SCALE	0	150	300
1" = 300 FEET			
DR.	GS	CH.	BS
P.M. JW			
BOOK			
JOB	21003645		
SHEET NO.	SPE-35		

NOT FOR CONSTRUCTION



BROCKWAY TOWNSHIP



FREMONT TOWNSHIP

SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

- EXISTING STRUCTURE
- EXISTING HABITABLE STRUCTURE
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING COUNTY DRAIN
- EXISTING PARCEL BOUNDARY
- RIVERBEND SIGNED PARCEL
- RIVERBEND PENDING PARCEL
- RIVERBEND NEGOTIATING PARCEL
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 5FT)
- PROPOSED COLLECTION ALTERNATE
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER

WTG ID

- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)
- HH, HUB HEIGHT: 119M (390 FT)
118.5M (389 FT)
- RD, ROTOR DIAMETER: 162M (531 FT)
163M (535 FT)
- APEX, TOTAL HEIGHT: 200M (656 FT)
200M (656 FT)

WTG SETBACKS

- 1062' OR 1070' MIN. DISTANCE (2x RD) BETWEEN TURBINES
- 706' MIN. DISTANCE (TOTAL HEIGHT + 50') FROM:
 - THE NEAREST PUBLIC ROAD AND/OR RAILROAD DETERMINED AT THE NEAREST BOUNDARY OF THE RIGHT-OF-WAY EASEMENT AND/OR RAILROAD EASEMENT
 - THE NEAREST ABOVE-GROUND PUBLIC UTILITY TRANSMISSION LINE DETERMINED FROM THE EXISTING ABOVE-GROUND POWER LINE OR TELEPHONE LINE.
 - THE BORDER OF THE WIND ENERGY OVERLAY DISTRICT
 - NON-PARTICIPATING PROPERTY LINE
 - 1050' MIN. DISTANCE (160% OF APEX) FROM THE NEAREST DWELLING, SCHOOL, HOSPITAL, CHURCH, PUBLIC LIBRARY, OR MUNICIPAL LIMIT

NOTES:

1. ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
2. ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
3. A BOUNDARY SURVEY WAS CONDUCTED AT ALL INSTANCES WHERE A NON-PARTICIPATING PARCEL WAS WITHIN 50' OF THE REQUIRED SETBACK TO ENSURE COMPLIANCE.
4. LAYDOWN YARD IS REPRESENTATIVE LOCATION. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.

811
Know what's below.
Call before you dig.
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCURRED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OR OF ANY OTHER PERSONS.

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SOUTHFIELD, MI 48076
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SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

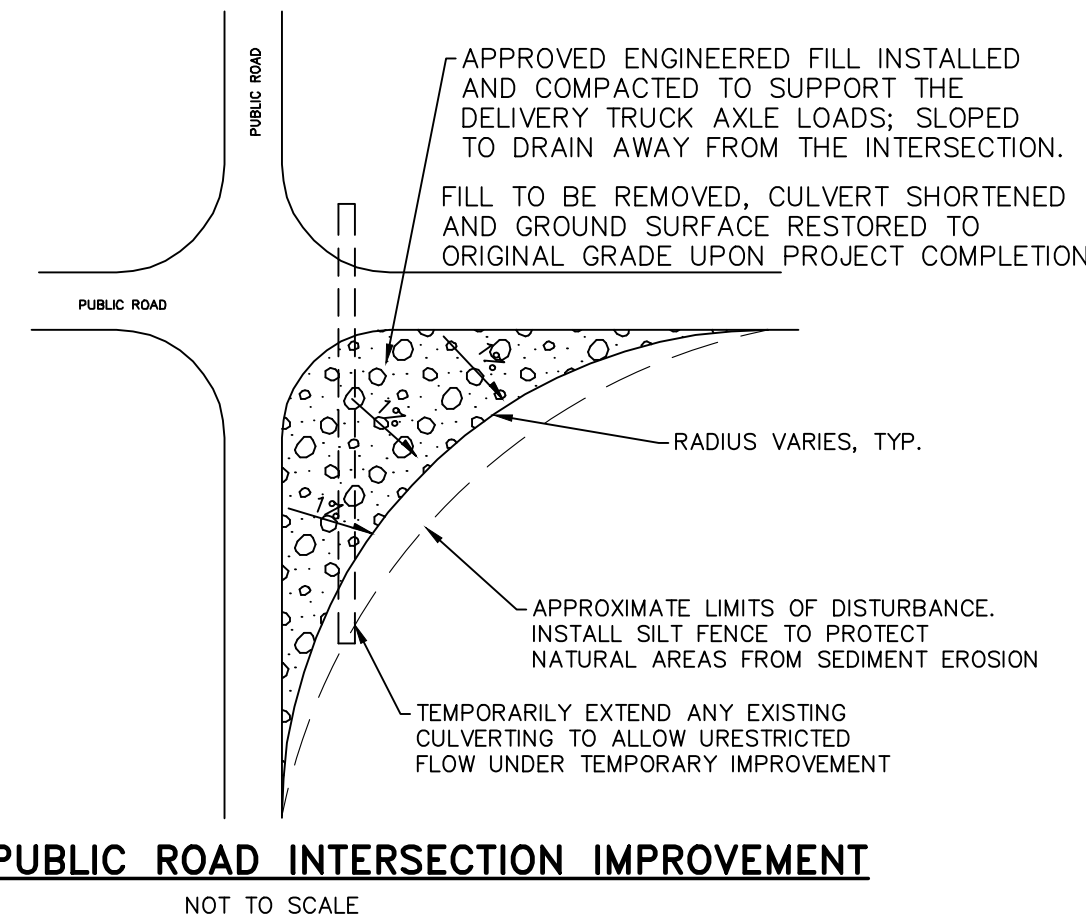
CLIENT: ALCONQUIN POWER (AN ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
SPEAKER TWP - SEC 36

DATE: SEPT. 29, 2022

REVISIONS	
SCALE	0 150 300
1" = 300 FEET	
DR.	GS CH. BS
P.M. JW	
BOOK	--
JOB	21003645
SHEET NO.	SPE-36

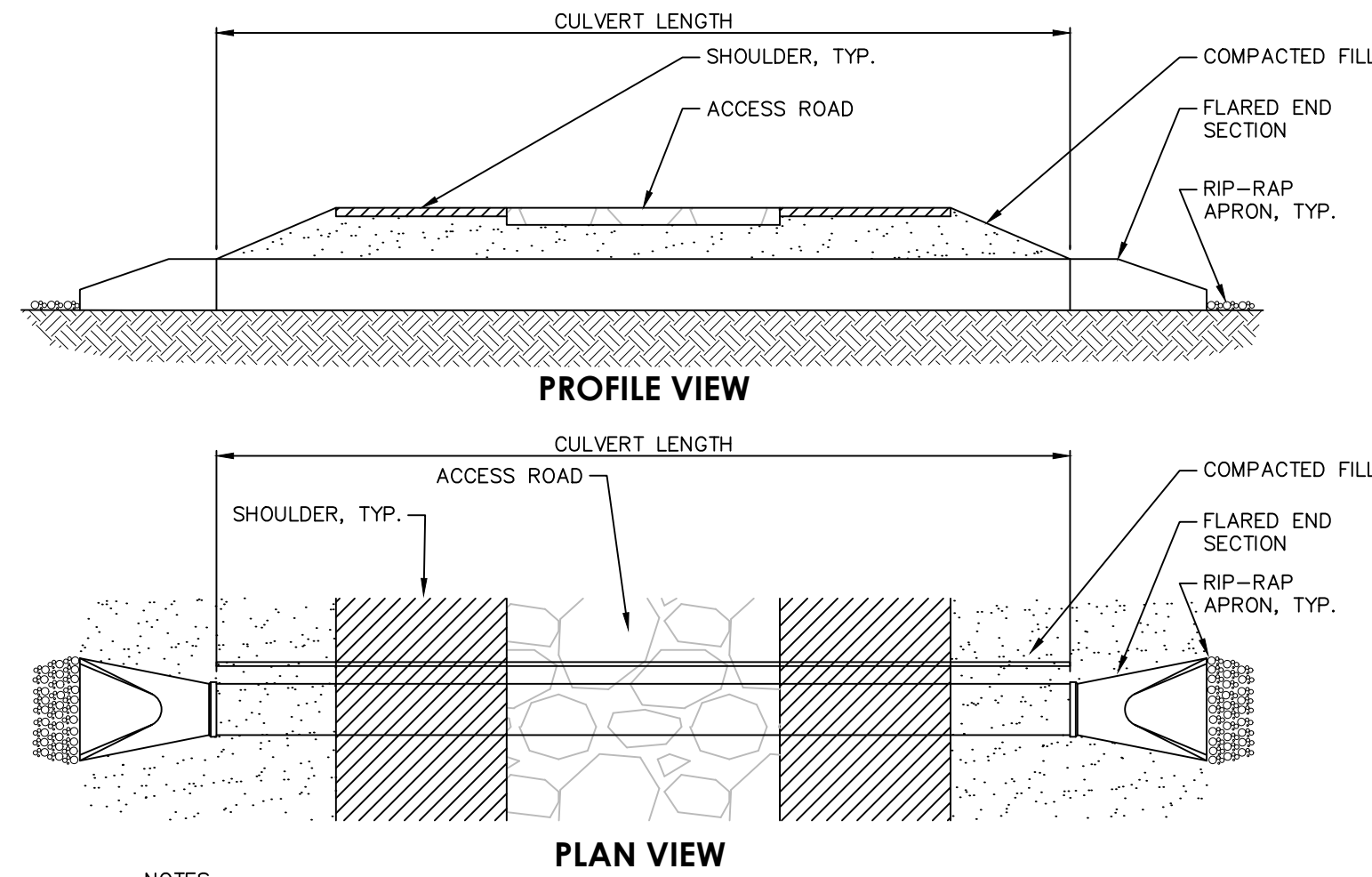
CAD FILE: S: 21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\SPEAKER_SIP\21003645SPE-SIP-02-EN

NOT FOR CONSTRUCTION



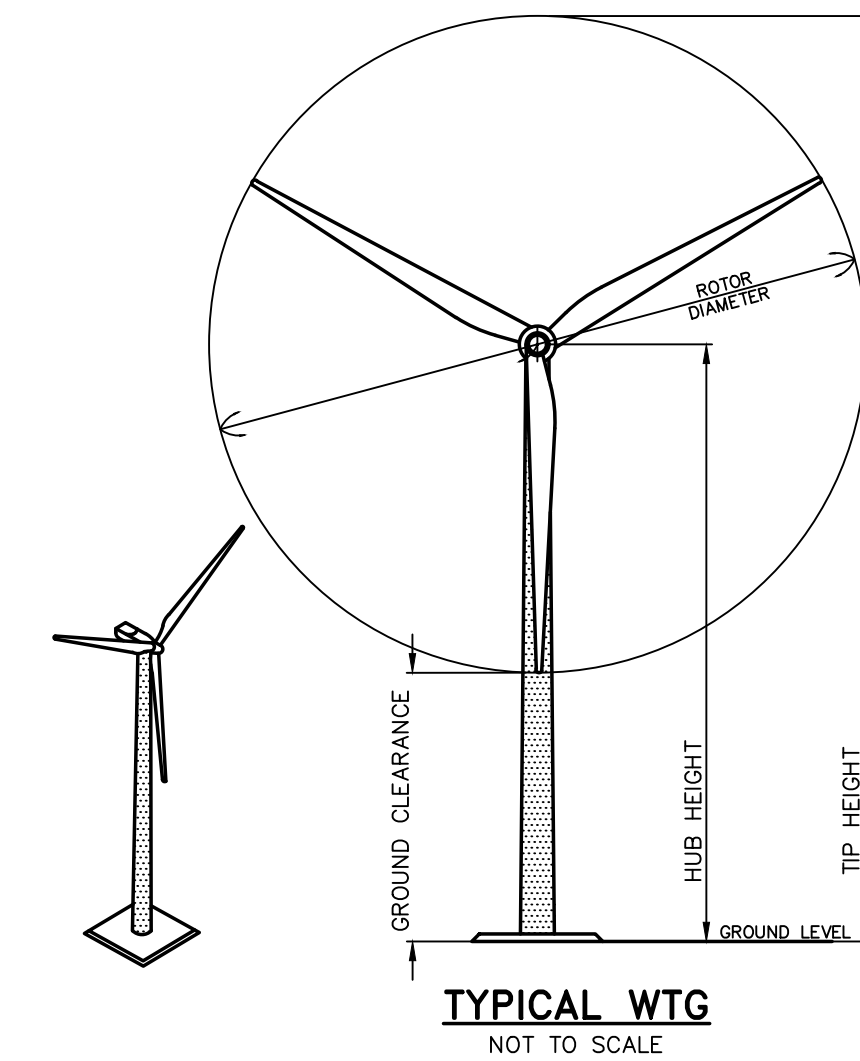
TYPICAL PUBLIC ROAD INTERSECTION IMPROVEMENT
NOT TO SCALE

- NOTES:
- IMPROVEMENT TO BE CONSTRUCTED IN COMPLIANCE WITH ANY INTERSECTION SPECIFIC DOT PERMIT REQUIREMENTS.
 - ANY SIGNAGE RELOCATION TO BE DONE IN COMPLIANCE WITH ANY SPECIFIC DOT AND COUNTY ENGINEER REQUIREMENTS.
 - ANY UTILITY REMOVAL, RELOCATION OR BURIAL SHALL BE COORDINATED WITH THE LOCAL UTILITY COMPANY.



TYPICAL CULVERT
NOT TO SCALE

- NOTES:
- CULVERT DIMENSIONS AND BURIAL DEPTHS VARY.
 - CULVERTS UNDER SANILAC COUNTY JURISDICTION LARGER THAN 36" DIAMETER SHALL BE PROTECTED WITH RIP-RAP. RIP-RAP SHALL BE "MDOT PLAIN," PLACED AT EACH END OF THE CULVERT TO A HEIGHT OF ONE FOOT ABOVE THE TOP OF THE CULVERT, PROTECTING CULVERT BACKFILL.
 - RIP-RAP TO BE UNDERLAIN WITH NON-WOVEN GEOFABRIC FOR EROSION PROTECTION.
 - DITCH SHALL BE CLEANED OF SODS AND DEBRIS PRIOR TO PIPE INSTALLATION.



TYPICAL WTG
NOT TO SCALE

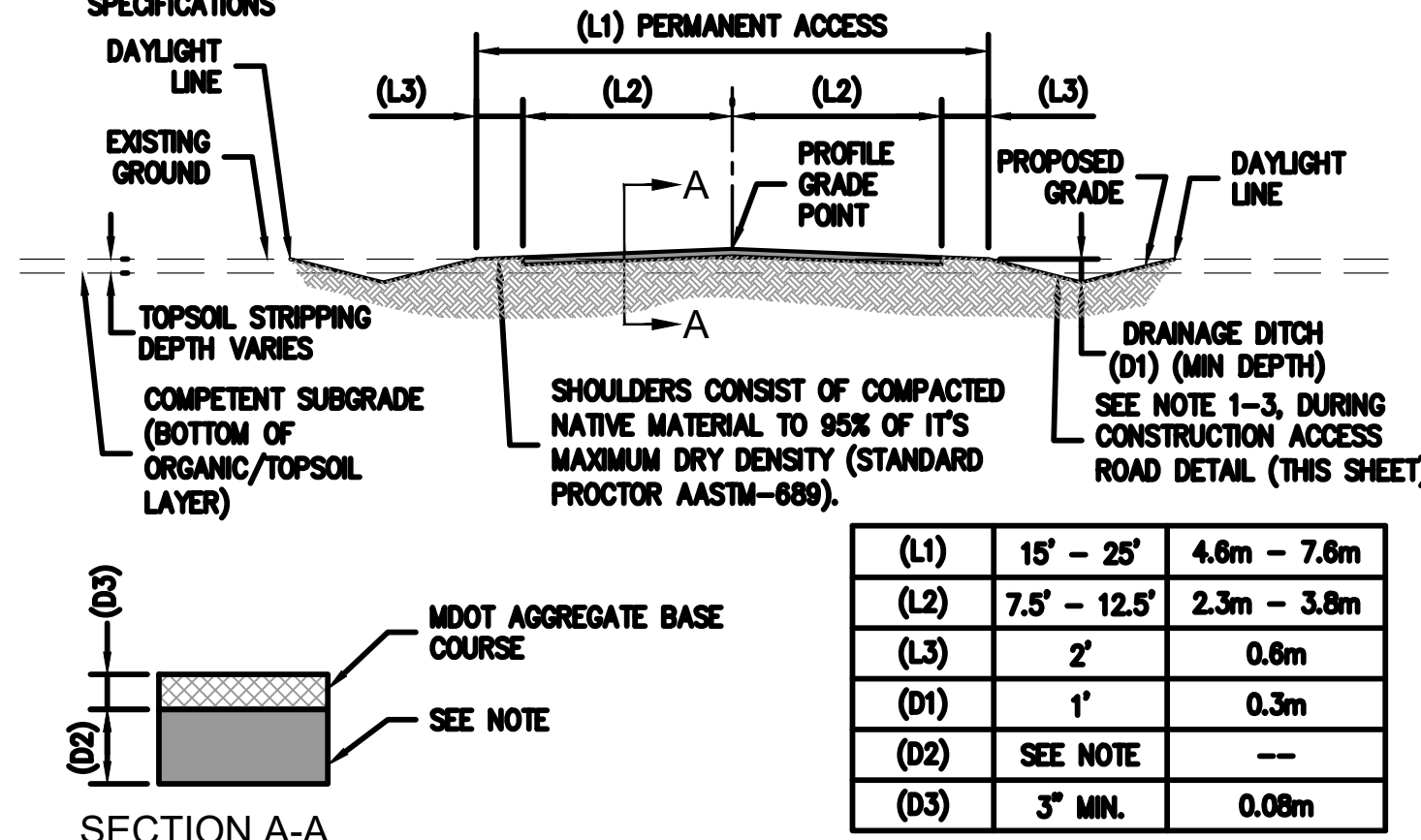
Typical Turbine Specifications								
Hub Height (m)	Hub Height (ft)	Rotor Diameter (m)	Rotor Diameter (ft)	Tip Height (m)	Tip Height (ft)	Ground Clearance (m)	Ground Clearance (ft)	
119	390	162	531	200	656	38	125	
118.5	389	163	535	200	656	37	121	

ROAD CONSTRUCTION TYPICAL WORKFLOW:

- STAKE CENTERLINE AND CLEARING LIMITS.
- REMOVE AND STOCKPILE EXISTING VEGETATION AND TOPSOIL.
- FORM UNIFORM SUBGRADE FOR WIDTH OF ROAD, SHOULDERS AND SWALES. (MAY REQUIRE MILLING, HAMMERING OR RIP-RAP. REFER TO GEOTECHNICAL REPORT FOR CONSTRUCTION RECOMMENDATIONS.)
- SUBGRADE SHALL BE CROWNED 1%-2% CROSS SLOPE (MAX 2%). MIX CEMENT AND COMPACT SUBGRADE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
- PROOF ROLL SUBGRADE TO SPECIFIED COMPACTION OR PROOF ROLL CRITERIA.
- PLACE AND COMPACT AGGREGATE BASE.
- CLEAR AND STOCKPILE VEGETATION AND TOPSOIL IN THE IMPROVEMENT AREAS.
- FORM UNIFORM SUBGRADE FOR WIDTH OF ROAD AND SHOULDERS FOLLOWING MINIMUM CRITERIA IN THE DETAIL.
- COMPACT AND PROOF ROLL THE PREPARED ROAD BED.
- USE AGGREGATE BASE AS REQUIRED TO FILL POTHOLES, DIPS, OR UNEVEN AREAS IN THE ROAD AND SHOULDER LANES.
- PLACE AND COMPACT AGGREGATE BASE TO MINIMUM DEPTH.
- PLACE AND COMPACT ADDITIONAL AGGREGATE BASE IF FIELD CONDITIONS REQUIRE TO MEET SPECIFICATIONS

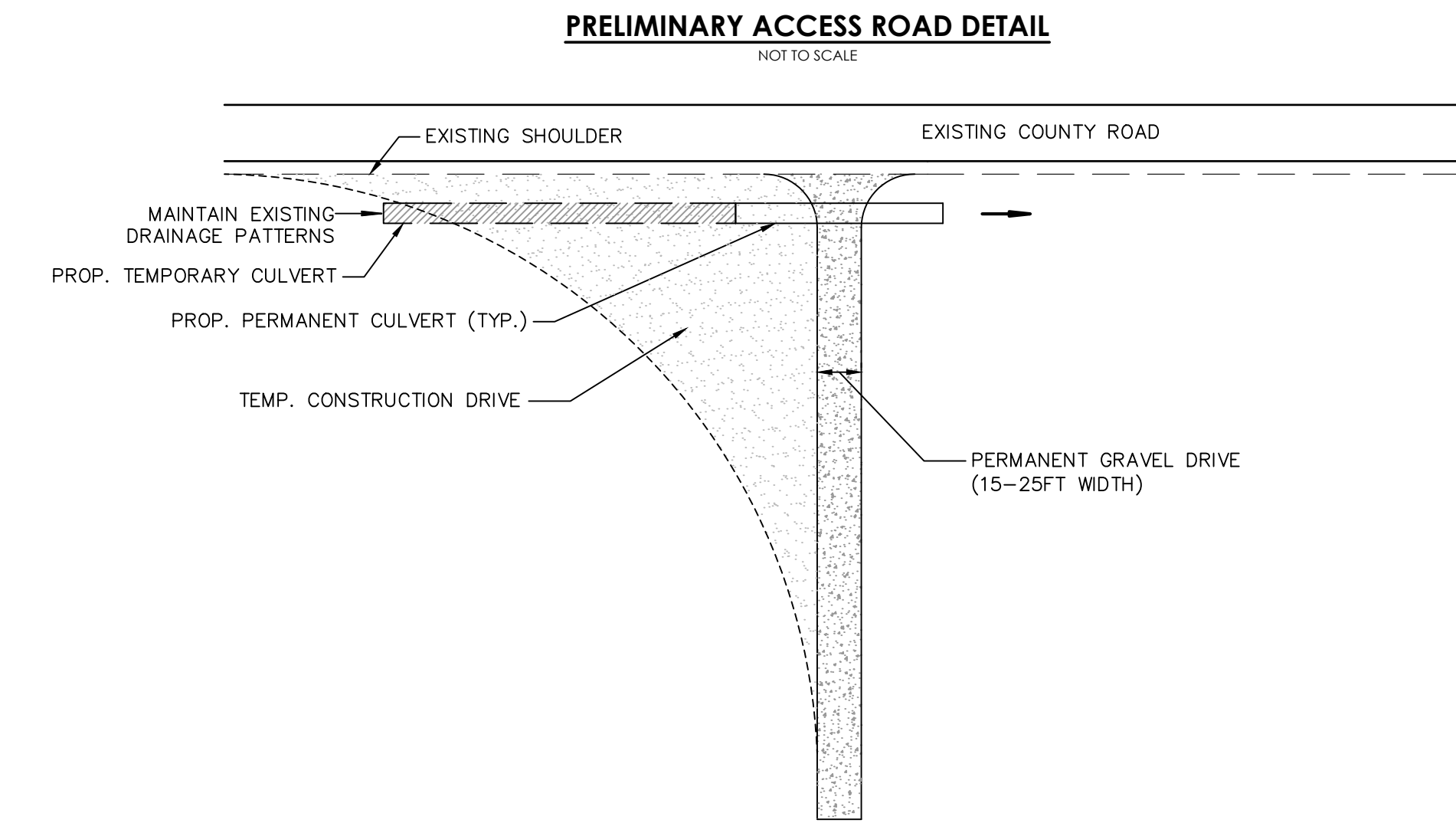
CONSTRUCTION NOTES

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL MICHIGAN ONE-CALL (811) AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK NATURAL OR MANMADE DRAINAGE SWALES CAUSING RAINWATER TO POND.
- THE CONTRACTOR SHALL INSTALL DRIVE CULVERTS AS NECESSARY TO INSURE POSITIVE DRAINAGE AROUND THE PROPOSED ACCESS ROADS.
- EXISTING CULVERTS AND DRAIN TILES SHALL BE EXTENDED, REROUTED, OR DIRECTLY CONNECTED TO PROPOSED ACCESS ROAD CULVERTS AS NECESSARY TO ENSURE POSITIVE DRAINAGE. AN ANIMAL GRATE SHALL BE PROVIDED AT THE OUTLET OF EVERY MODIFIED DRAIN TILE.
- IT WILL BE THE CONTRACTORS RESPONSIBILITY TO BE FAMILIAR WITH THE POSTED WEIGHT LIMITATIONS ON PUBLIC ROADS AND BRIDGES WITHIN THE PROJECT AREA. IT WILL ALSO BE THE CONTRACTORS RESPONSIBILITY TO SECURE THE NECESSARY PERMITS FROM THE TOWNSHIPS, COUNTY, OR STATE AGENCIES BEFORE UTILIZING THESE PUBLIC ROADS AND BRIDGES FOR HAULING.
- EXISTING FEATURES REMOVED AS A RESULT OF CONSTRUCTION ACTIVITIES (MAILBOXES, FENCES, ETC.) SHALL BE REPLACED BY THE CONTRACTOR IN A CONDITION AS GOOD AS EXISTING.
- CONTRACTOR TO CONTACT THE SANILAC COUNTY ROAD COMMISSION FOR ALL NECESSARY SIGN REMOVALS/RELOCATIONS.
- SOIL EROSION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE SOIL EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE USEPA "STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES." THE EXISTING SITE SLOPES ARE INSIGNIFICANT, PRODUCING VERY LITTLE SURFACE RUN-OFF WHICH FLOWS TO EXISTING FARM LAND. CONTRACTOR TO DISTURB AS LITTLE AS POSSIBLE DURING CONSTRUCTION. ALL STOCKPILES ARE TO BE TAPERED FOR FARMLAND PLACEMENT. TOPSOIL SHOULD BE PLACED ADJACENT TO FARM FIELD TO BE TILLED AND USED AS FARMLAND.
- EACH WIND TURBINE SHALL HAVE ONE SIGN NOT TO EXCEED TWO SQUARE FEET POSTED AT THE BASE OF THE TOWER, OR IF THE STRUCTURE IS FENCED, ON THE FENCE. THE SIGN SHALL INCLUDE THE WORDS "WARNING: HIGH VOLTAGE" AND EMERGENCY PHONE NUMBERS.
- ALL DISTURBED BANKS WITHIN COUNTY DRAINS DUE TO CULVERT INSTALLATION MUST BE STABILIZED PER MDT AND COUNTY ROAD/DRAIN COMMISSION SPECIFICATIONS.
- THE DESIGN AND INSTALLATION OF ALL UNDERGROUND ELECTRIC CABLES SHALL MEET ALL NATIONAL, STATE AND LOCAL ELECTRICAL SAFETY CODES.
- REFER TO ELECTRICAL PLANS BY OTHERS FOR SPECIFICATIONS ON ELECTRIC CABLES, CROSS BOXES, JUNCTION CABINETS, ETC. ELECTRIC CABLES AND ASSOCIATED STRUCTURES SHOWN IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND REPRESENT APPROXIMATE CABLE PLACEMENT LOCATIONS.

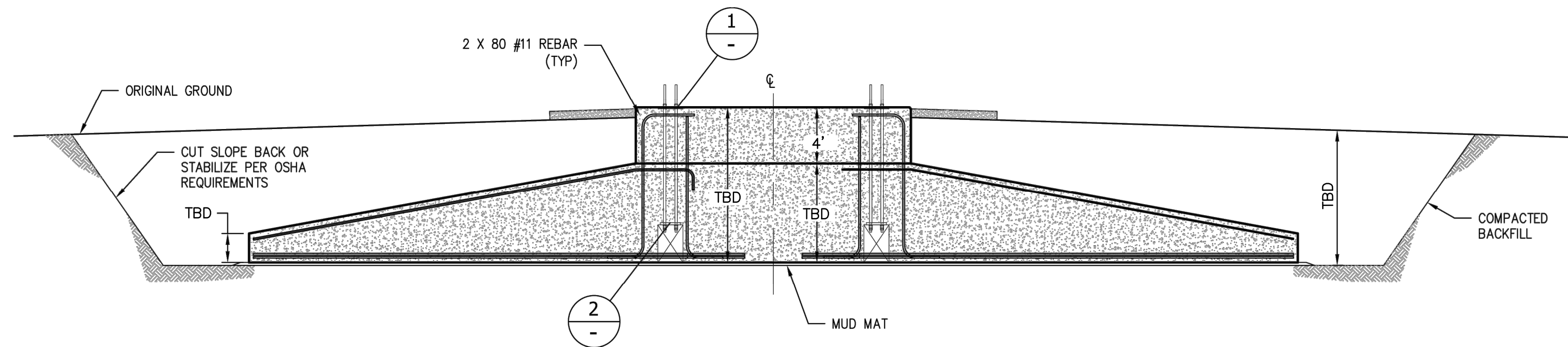


ACCESS ROAD WITHOUT CRANE WALK
NOT TO SCALE

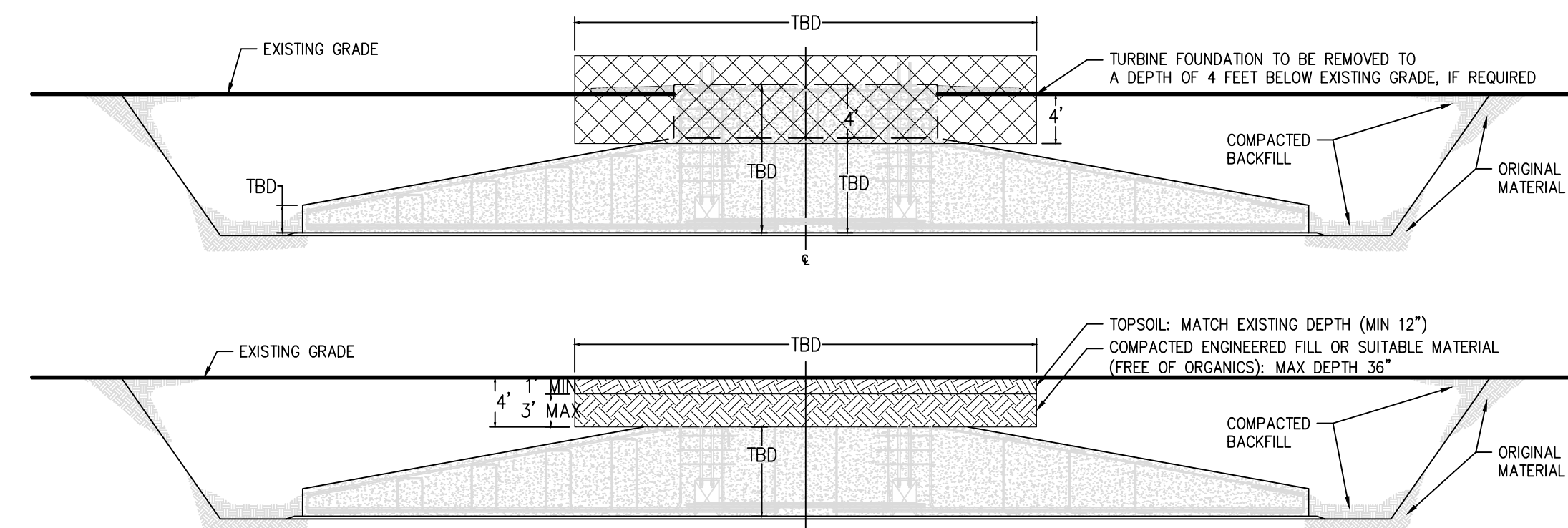
NOTE: SOIL STABILIZATION SPECIFICATIONS TO BE DETERMINED BY GEO-TECHNICAL ENGINEER.



PRELIMINARY ACCESS ROAD DETAIL
NOT TO SCALE



SECTION: SAMPLE FOUNDATION SECTION AND TYPICAL GRADING
NOTE: ONLY PRIMARY REINFORCEMENT IS SHOWN



FOUNDATION RESTORATION DETAIL
NOT TO SCALE



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SECTION: REFER TO SHEETS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT: ALCONQUIN POWER (MI ENERGY DEVELOPMENTS) LLC
RIVERBEND WIND PROJECT
SPECIAL LAND USE SITE PLANS
STANDARD DETAILS

DATE: SEPT. 29, 2022

NO.	REVISIONS
0	

SCALE: 0

DR.	GS	CH.	BS
P.M.	JW		
BOOK	---		
JOB	21003645		
SHEET NO.	SPE-DET		