

Figure 03-1

Project Two-Mile Radius Map

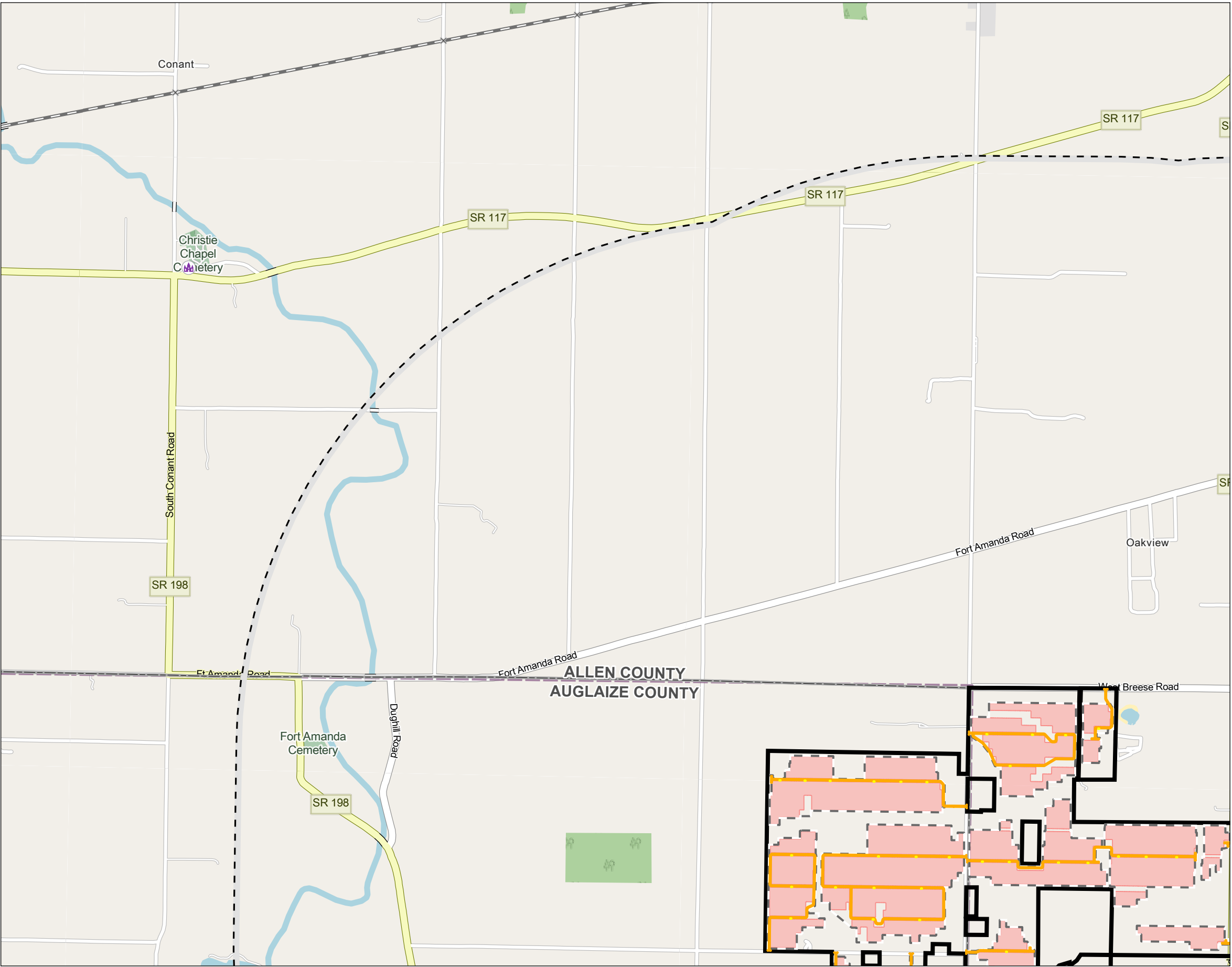


Figure No.
3-1

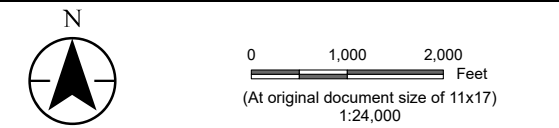
Title
Project Two-Mile Radius Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

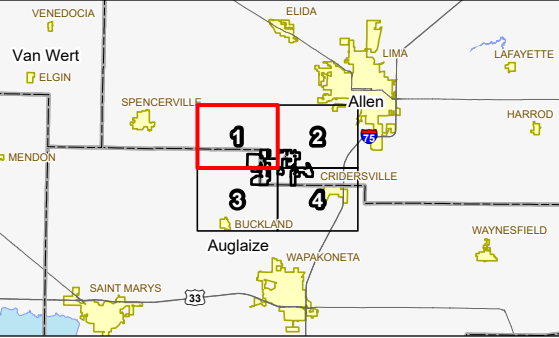
2028113238

Project Location
Allen and Auglaize Counties, Ohio

Prepared by JLH on 2020-12-11
TR by CA on 2021-01-23
IR by CMD on 2021-01-23



- Legend
- Project Area
 - 2 Mile Buffer
 - Solar Array
 - Inverter
 - Substation
 - Fence
 - Access Road
 - Cemetery
 - Place of Worship
 - School
 - Existing Electric Transmission Line
 - Wildlife or Conservation Area
 - National Hydrography Dataset
 - Perennial Stream*
 - Intermittent Stream
 - Waterbody*



Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Sources: Stantec, Lightsource, Esri, USGS, PennWell, PADUS, ODNr, ODOT, NADS
3. Background: Esri

Preliminary Design - Not for Construction

Stantec

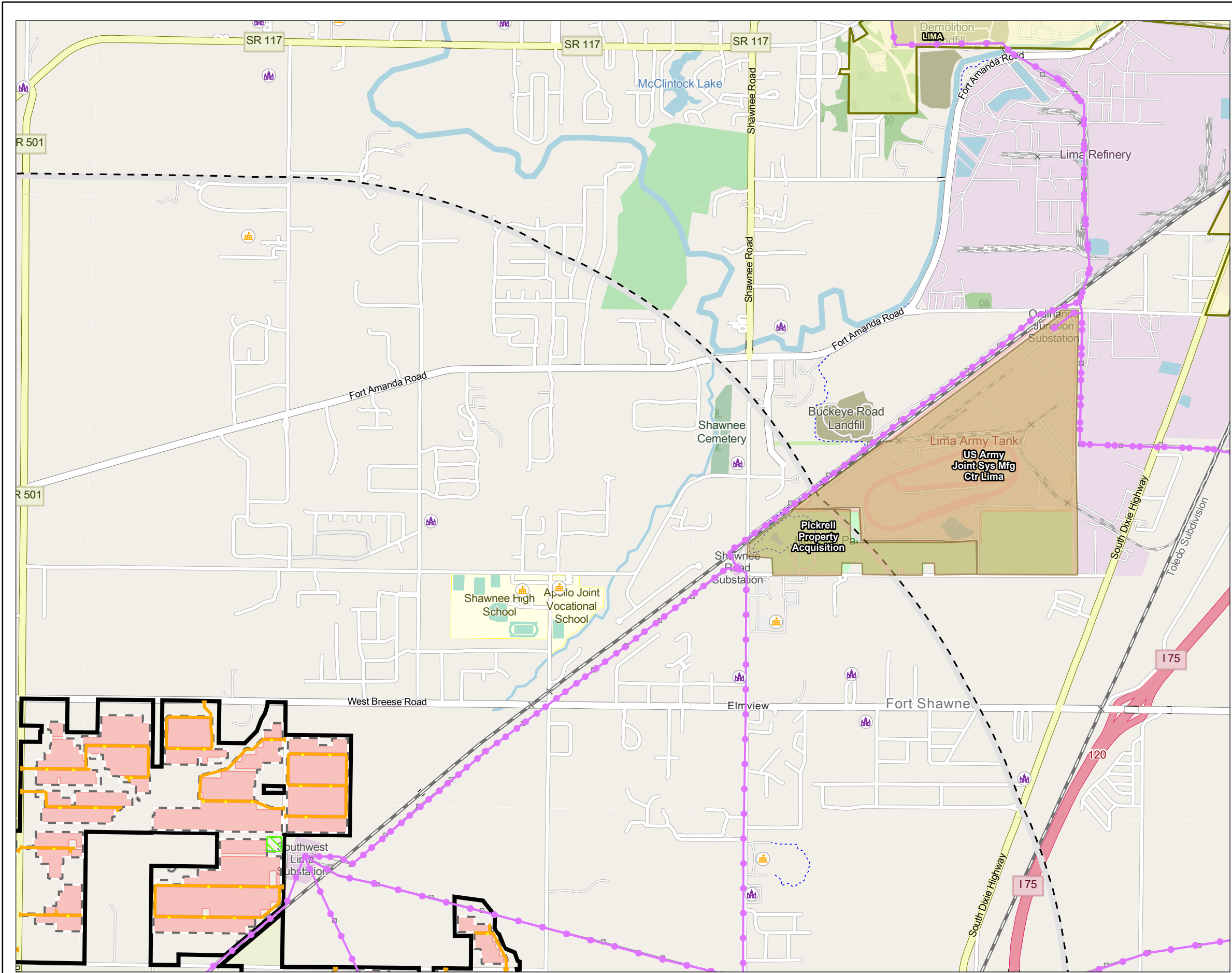


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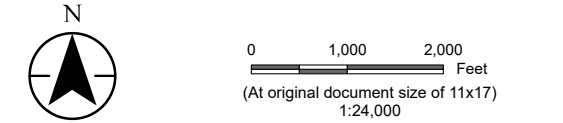
Title
Project Two-Mile Radius Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

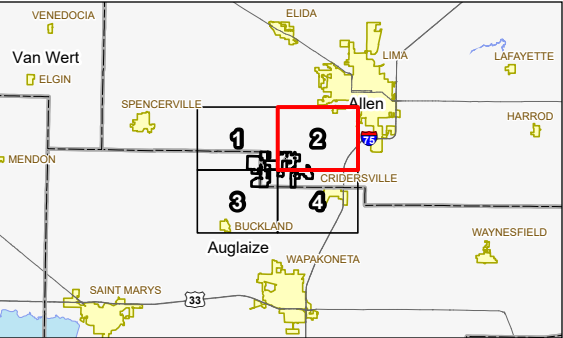
2028113238

Project Location
Allen and Auglaize Counties, Ohio

Prepared by J.L.H. on 2020-12-11
TR by C.A. on 2021-01-23
IR by C.M.D. on 2021-01-23



- Legend
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 - National Hydrography Dataset
 - Perennial Stream*
 - Intermittent Stream
 - Waterbody*



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 **Stantec**

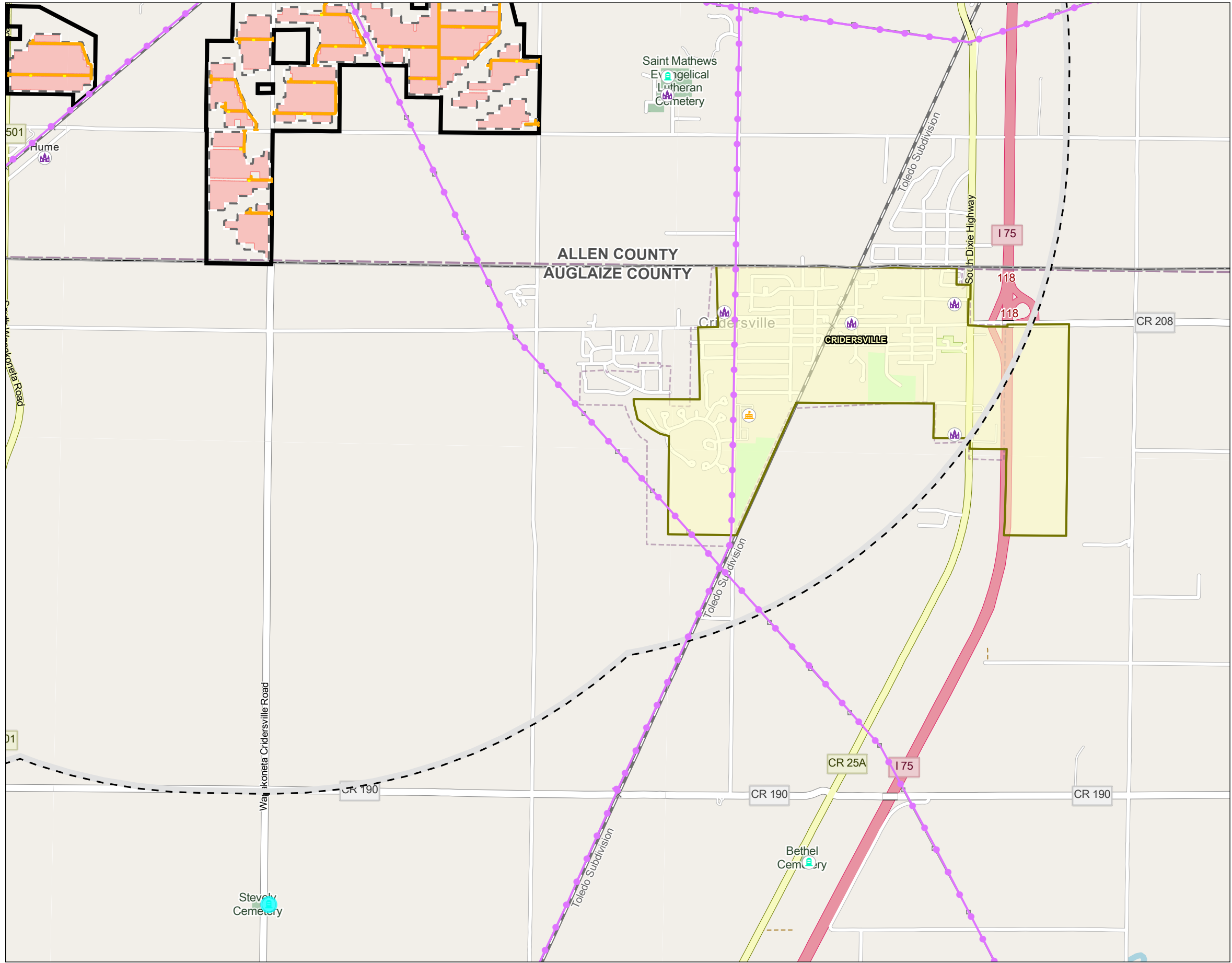


Figure No.
3-1

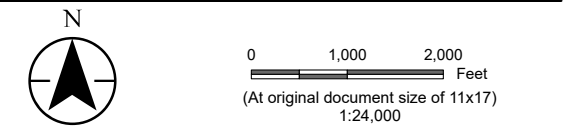
Title
Project Two-Mile Radius Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

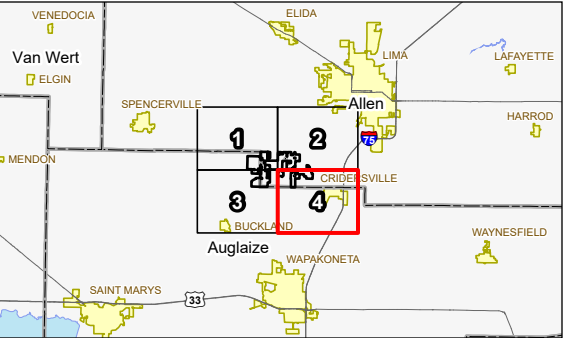
2028113238

Project Location
Allen and Auglaize Counties, Ohio

Prepared by JLH on 2020-12-11
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IR by CMD on 2021-01-23



- Legend
- Project Area
 - 2 Mile Buffer
 - Solar Array
 - Inverter
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 - Fence
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 - Wildlife or Conservation Area
- National Hydrography Dataset
- Perennial Stream*
 - Intermittent Stream
 - Waterbody*



Notes

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3. Background: Esri

Preliminary Design - Not for Construction

Stantec

Figure 03-2

Project Site Layout Map

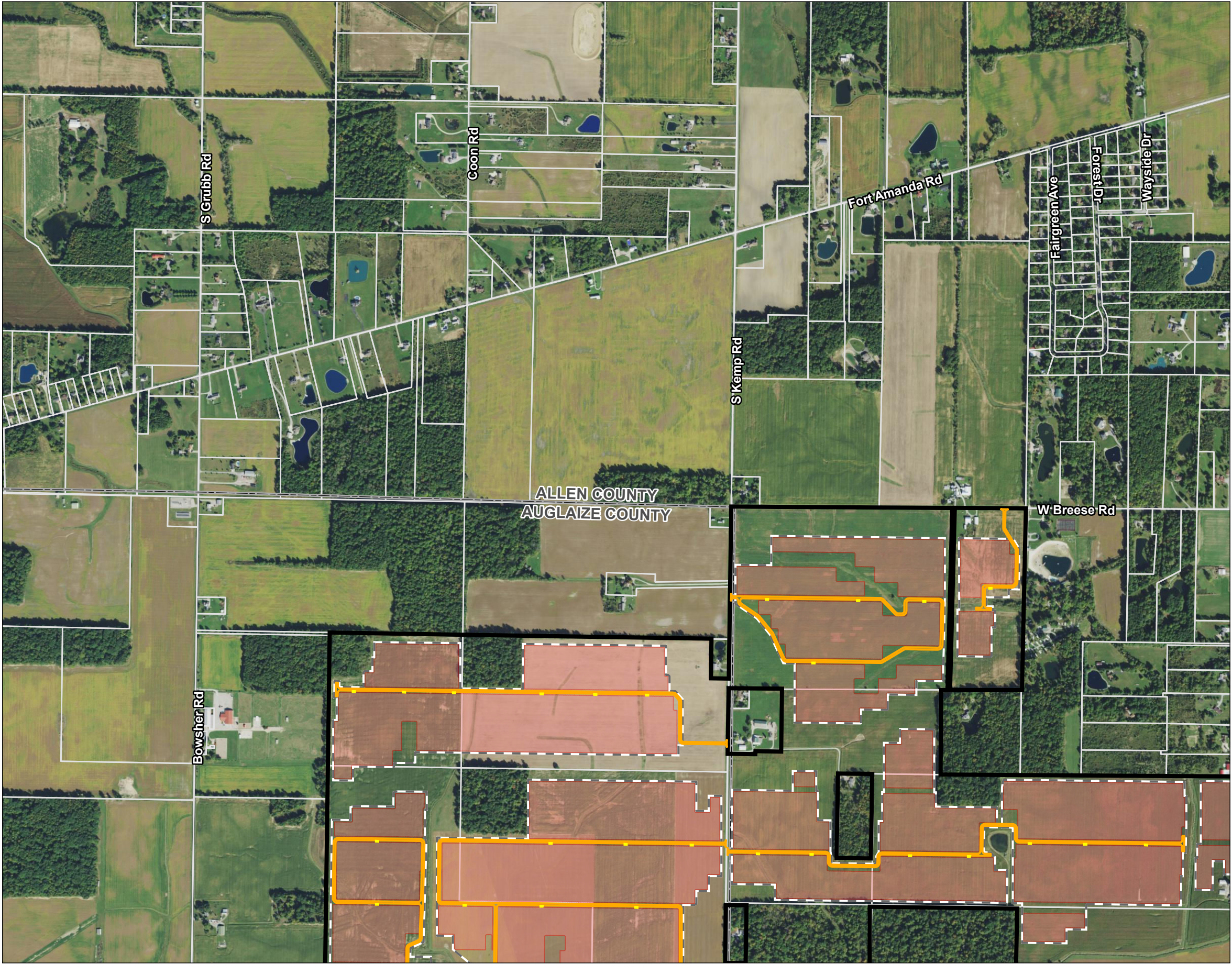


Figure No.
3-2

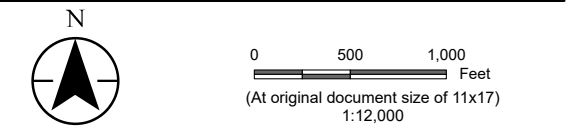
Title
Project Site Layout Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

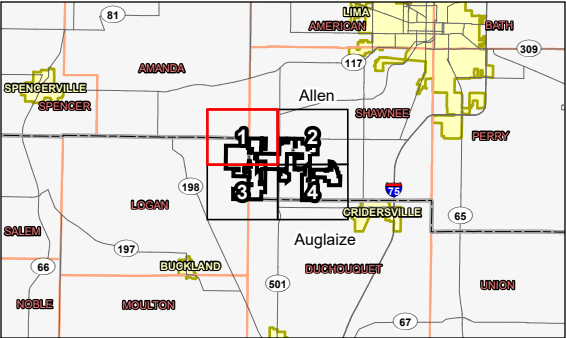
2028113238

Project Location
Allen and Auglaize Counties, Ohio

Prepared by JLH on 2020-12-11
TR by CA on 2021-01-23
IR by CMD on 2021-01-23



- Legend
- Project Area
 - Parcel Boundary
 - Solar Array
 - Inverter
 - Substation
 - Fence
 - Access Road



Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Sources: Stantec, Lightsource, USGS, NAD 83, 2019 NAIP
3. Orthophotography: 2019 NAIP

Preliminary Design - Not for Construction

Stantec

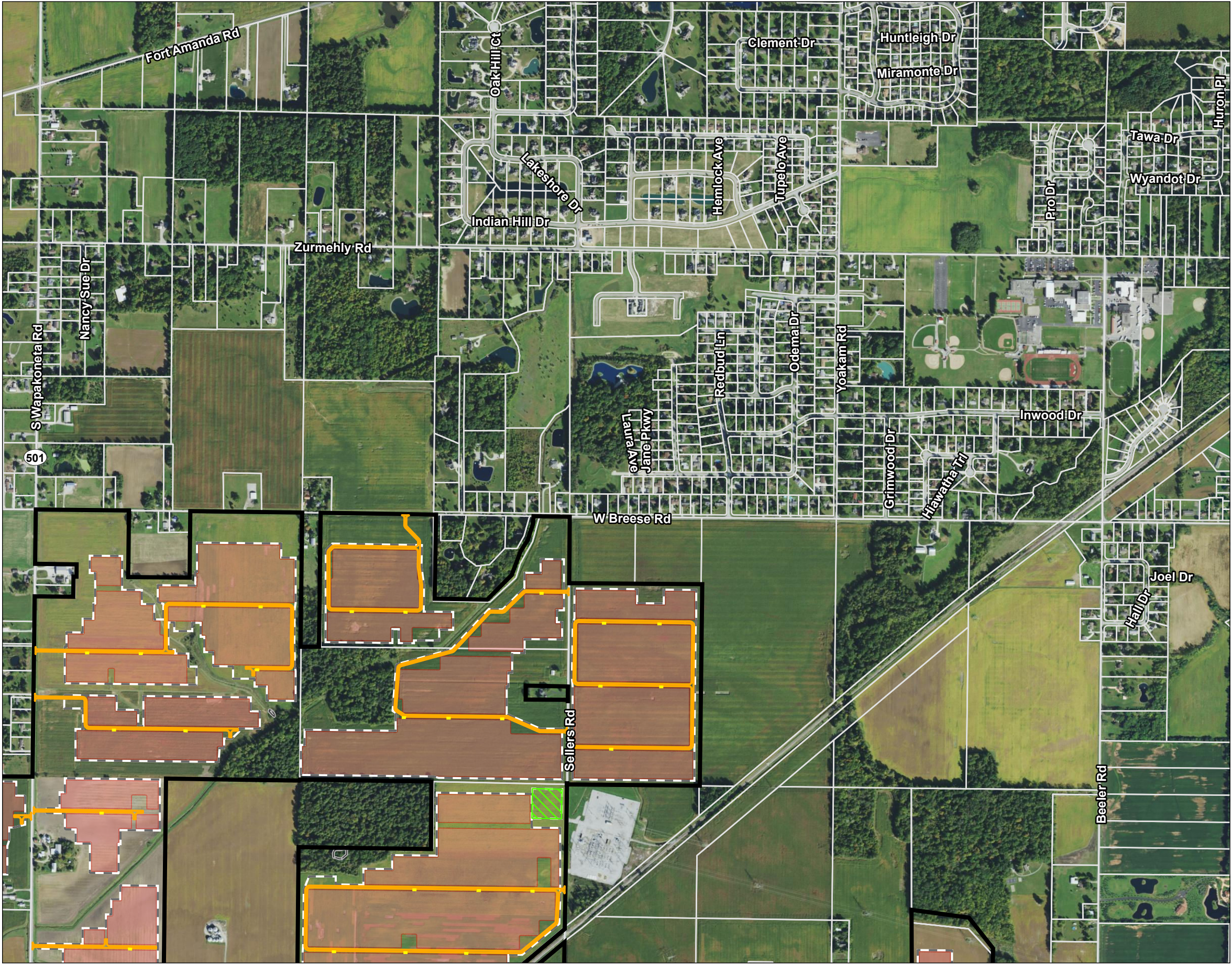


Figure No.
3-2

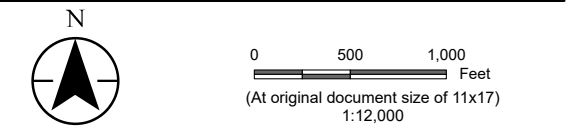
Title
Project Site Layout Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

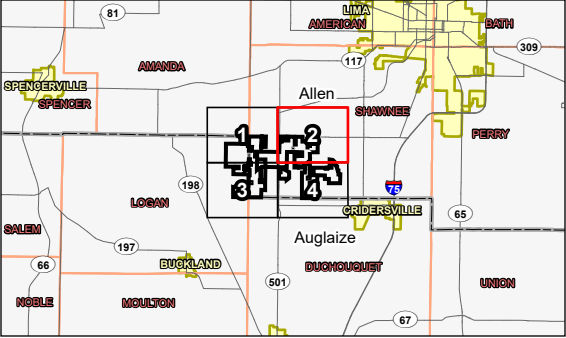
2028113238

Project Location
Allen and Auglaize Counties, Ohio

Prepared by J.L.H. on 2020-12-11
TR by C.A. on 2021-01-23
IR by C.M.D. on 2021-01-23



- Legend
- Project Area
 - Parcel Boundary
 - Solar Array
 - Inverter
 - Substation
 - Fence
 - Access Road



Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Sources: Stantec, Lightsources, USGS, NAD 83, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100
3. Orthophotography: 2019 NAIP

Preliminary Design - Not for Construction

Stantec

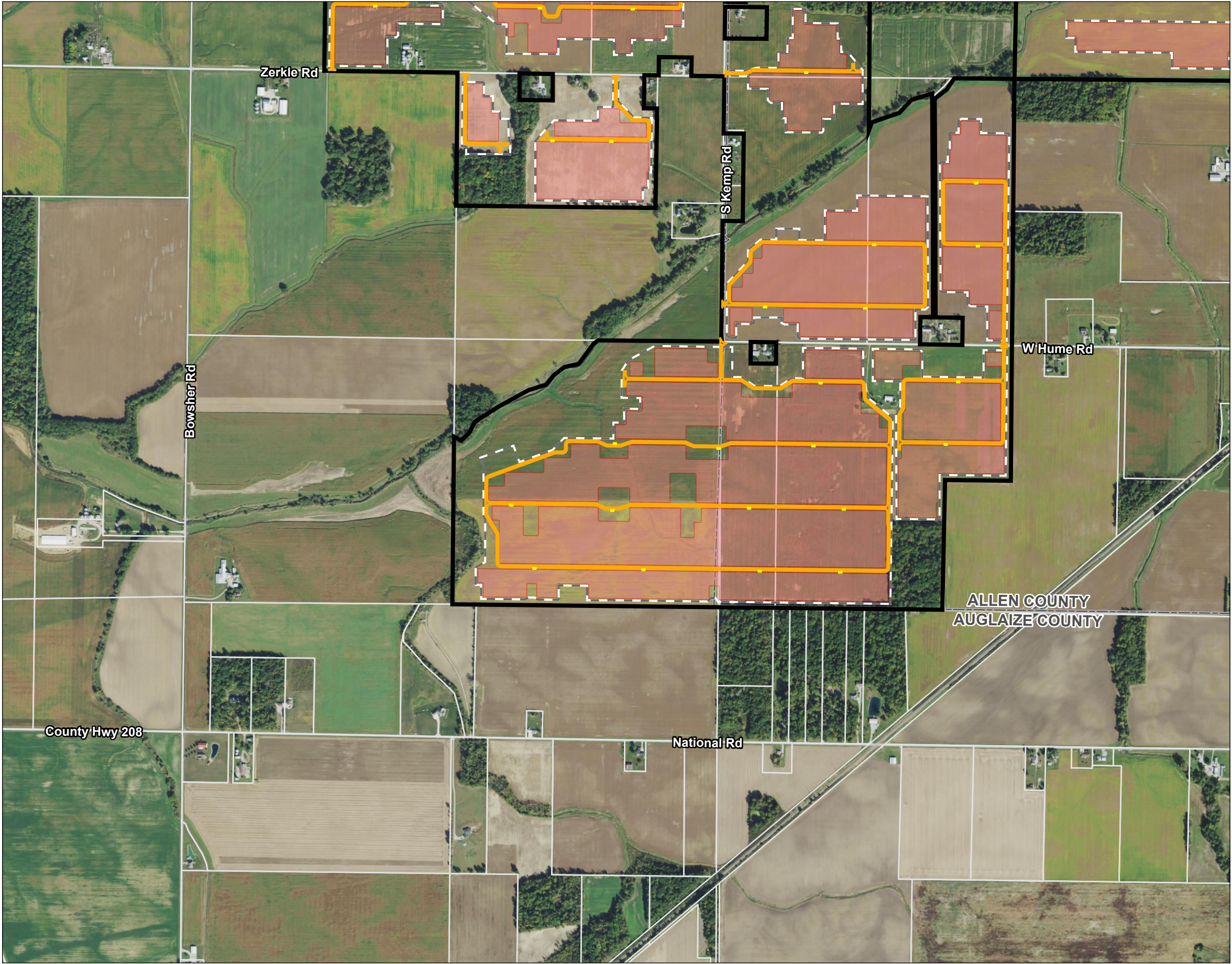


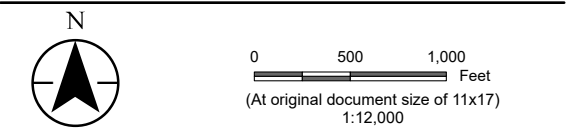
Figure No.
3-2
Title
Project Site Layout Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

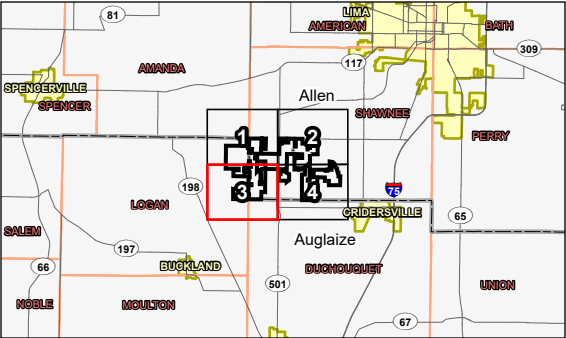
2028113238

Project Location
Allen and Auglaize Counties, Ohio

Prepared by JLH on 2020-12-11
TR by CA on 2021-01-23
IR by CMD on 2021-01-23



- Legend
- Project Area
 - Parcel Boundary
 - Solar Array
 - Inverter
 - Substation
 - Fence
 - Access Road



Notes
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2. Data Sources: Stantec, Lightsource, USGS, NAD 83, 2011 NAD 83
3. Orthophotography: 2019 NAIP

Preliminary Design - Not for Construction

 **Stantec**

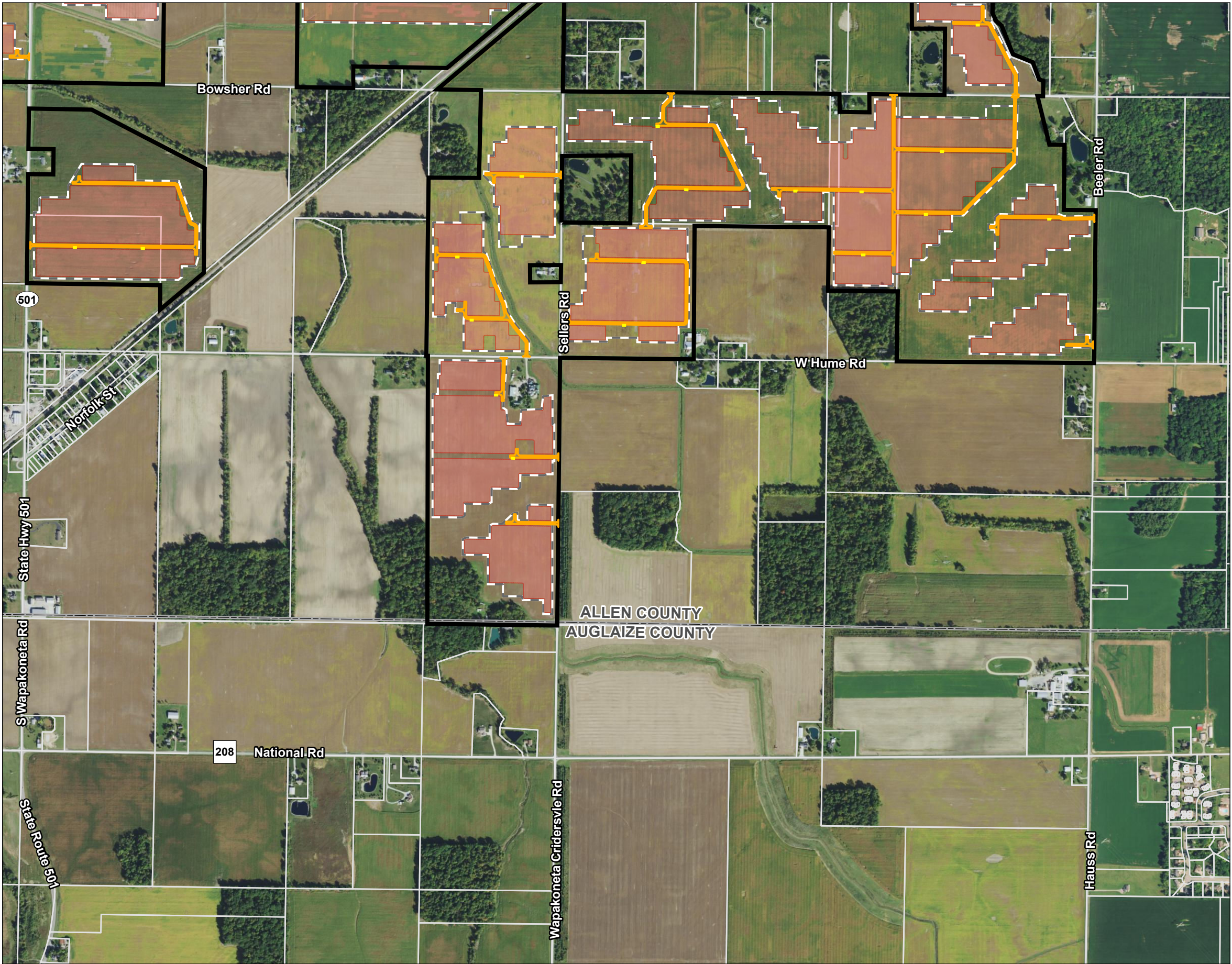


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3-2

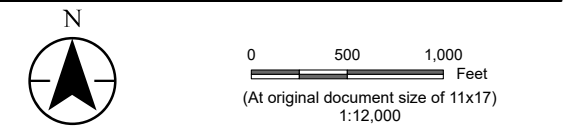
Title
Project Site Layout Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

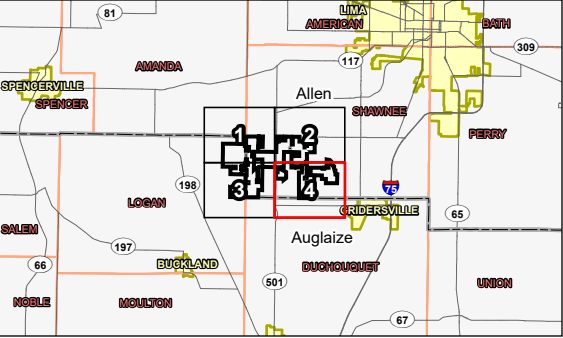
2028113238

Project Location
Allen and Auglaize Counties, Ohio

Prepared by JLH on 2020-12-11
TR by CA on 2021-01-23
IR by CMD on 2021-01-23



- Legend
- Project Area
 - Parcel Boundary
 - Solar Array
 - Inverter
 - Substation
 - Fence
 - Access Road



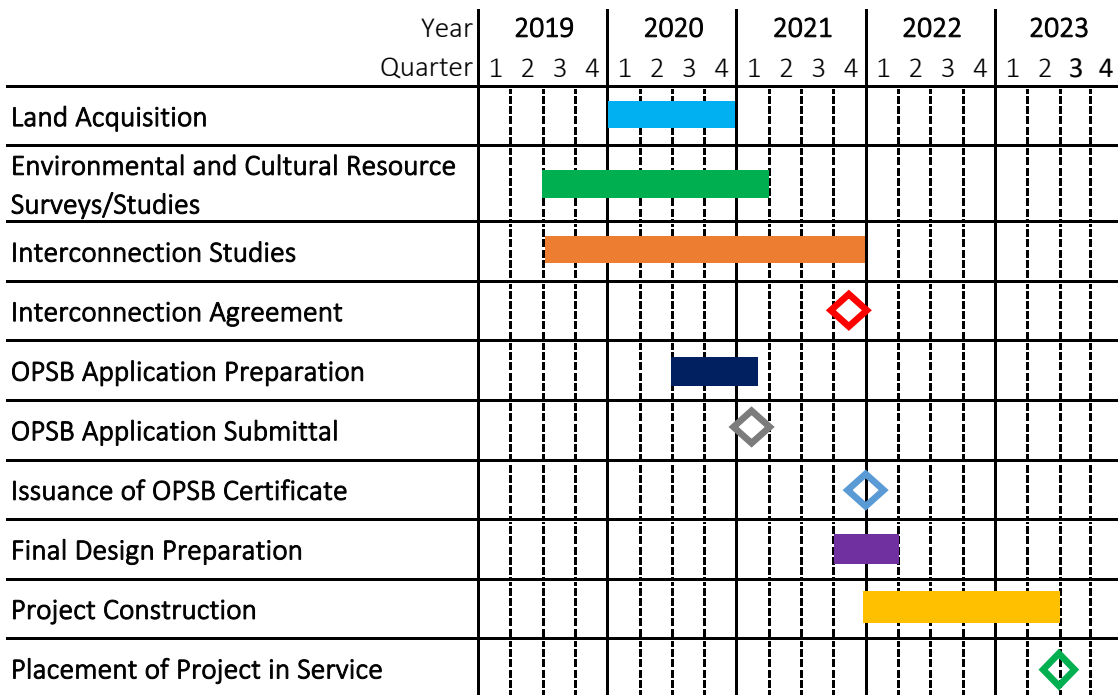
Notes

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3. Orthophotography: 2019 NAIP


Preliminary Design - Not for Construction

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Figure 03-3 Schedule



Key:

Milestone 

Task 

Figure 04-1 Project Constraints Map

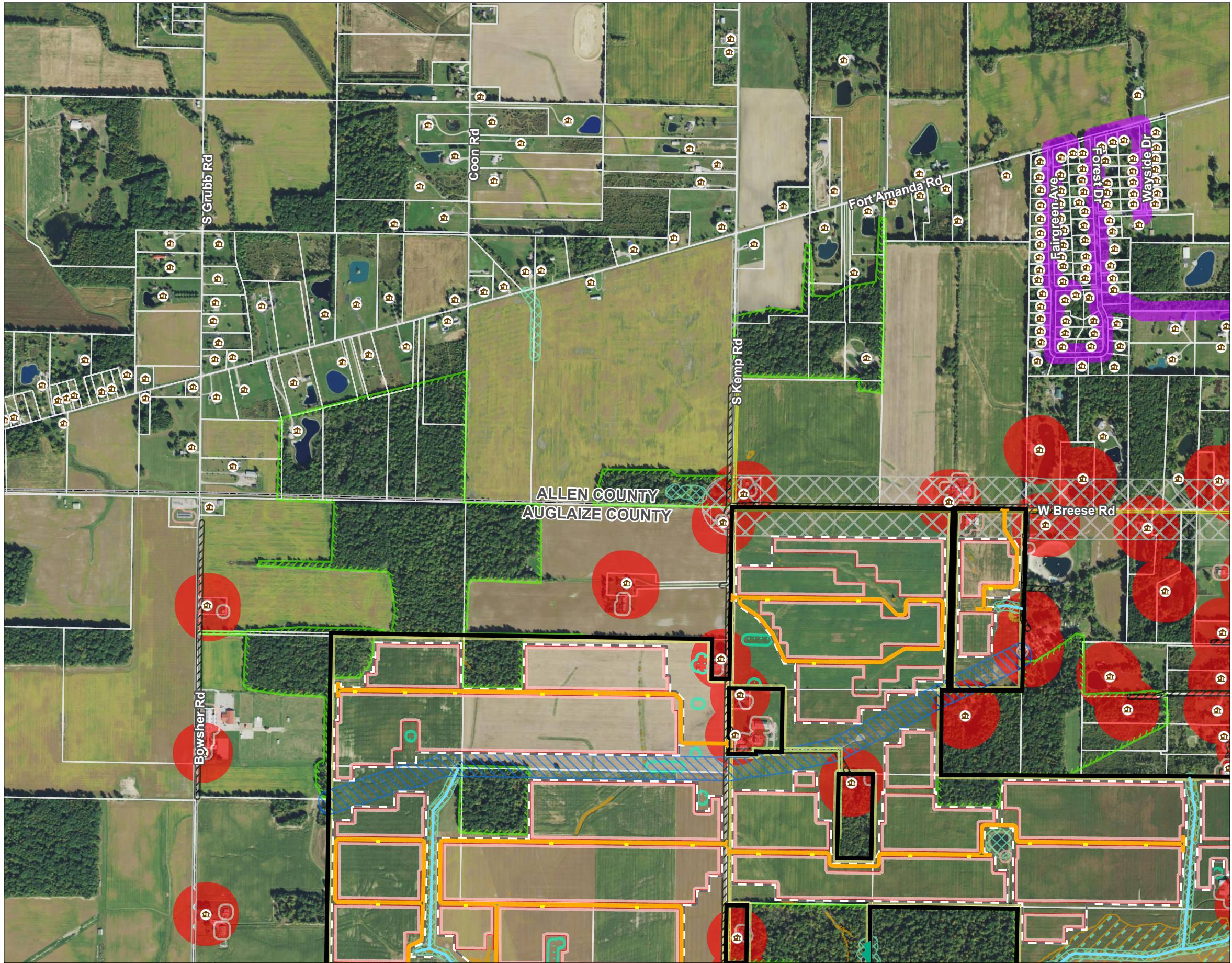


Figure No.

4-1

Title

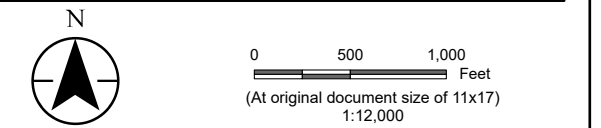
Project Constraints Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

2028113238

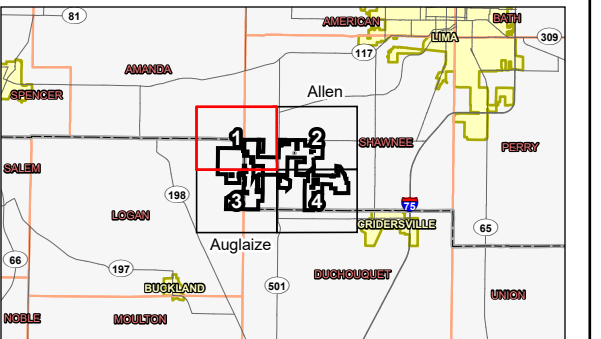
Project Location
Allen and Auglaize Counties, Ohio

Prepared by JLH on 2020-12-11
TR by CA on 2021-02-08
IR by CMD on 2021-02-08



Legend

Project Area	Setback/Avoidance Type
Parcel Boundary	Project Boundary
Solar Array	Residential Building
Inverter	Non-Residential Building
Substation	Access Easement
Fence	Drainage Easement
Access Road	Underground Water Line
Cemetery	Sanitary Main
Place of Worship	Pipeline
School	Well and Gathering Pipeline
Residence	Distribution Easement
Existing Electric Transmission Line	Transmission Easement
Railroad	Overhead Electric Line
Field Delineated Waterway	Telephone Line
Field Delineated Wetland	Wetland and Waterbody
	Forested Area
	Floodplain
	Railroad ROW
	Public Road ROW



Notes
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2. Data Sources: Stantec, Lightsource, Esri, USGS, ODOT, PennWell, NADS
3. Orthophotography: 2019 NAIP

Preliminary Design - Not for Construction



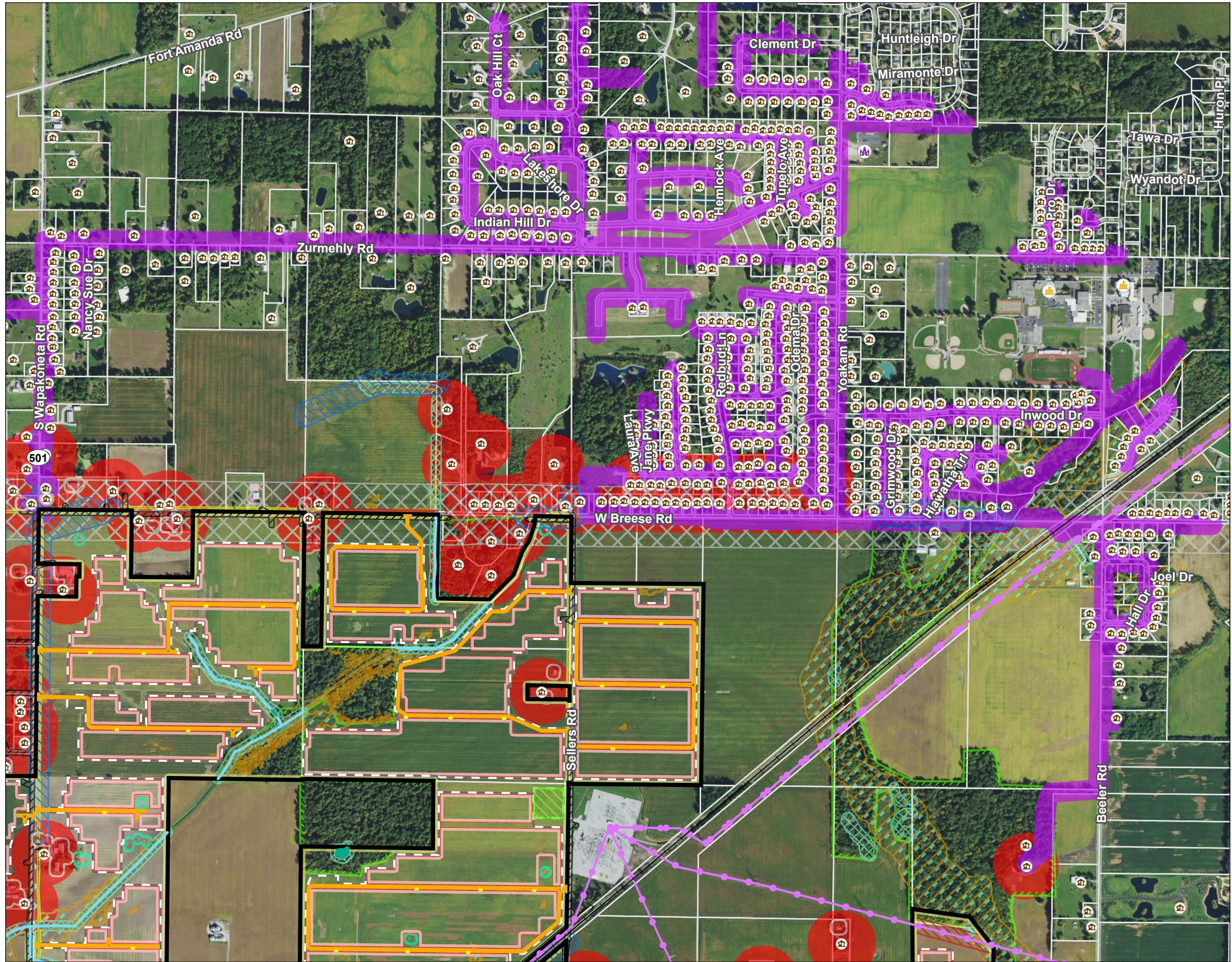


Figure No.
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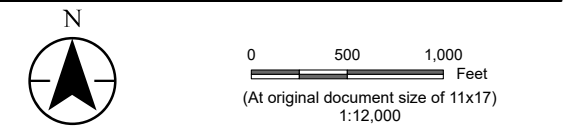
Title
Project Constraints Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

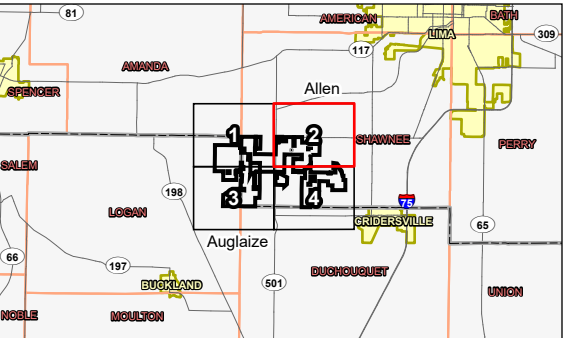
2028113238

Project Location
Allen and Auglaize Counties, Ohio

Prepared by JLH on 2020-12-11
TR by CA on 2021-02-08
IR by CMD on 2021-02-08



- Legend
- | | |
|-------------------------------------|-----------------------------|
| Project Area | Setback/Avoidance Type |
| Parcel Boundary | Project Boundary |
| Solar Array | Residential Building |
| Inverter | Non-Residential Building |
| Substation | Access Easement |
| Fence | Drainage Easement |
| Access Road | Underground Water Line |
| Cemetery | Sanitary Main |
| Place of Worship | Pipeline |
| School | Well and Gathering Pipeline |
| Residence | Distribution Easement |
| Existing Electric Transmission Line | Transmission Easement |
| Railroad | Overhead Electric Line |
| Field Delineated Waterway | Telephone Line |
| Field Delineated Wetland | Wetland and Waterbody |
| | Forested Area |
| | Floodplain |
| | Railroad ROW |
| | Public Road ROW |



Notes

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3. Orthophotography: 2019 NAIP

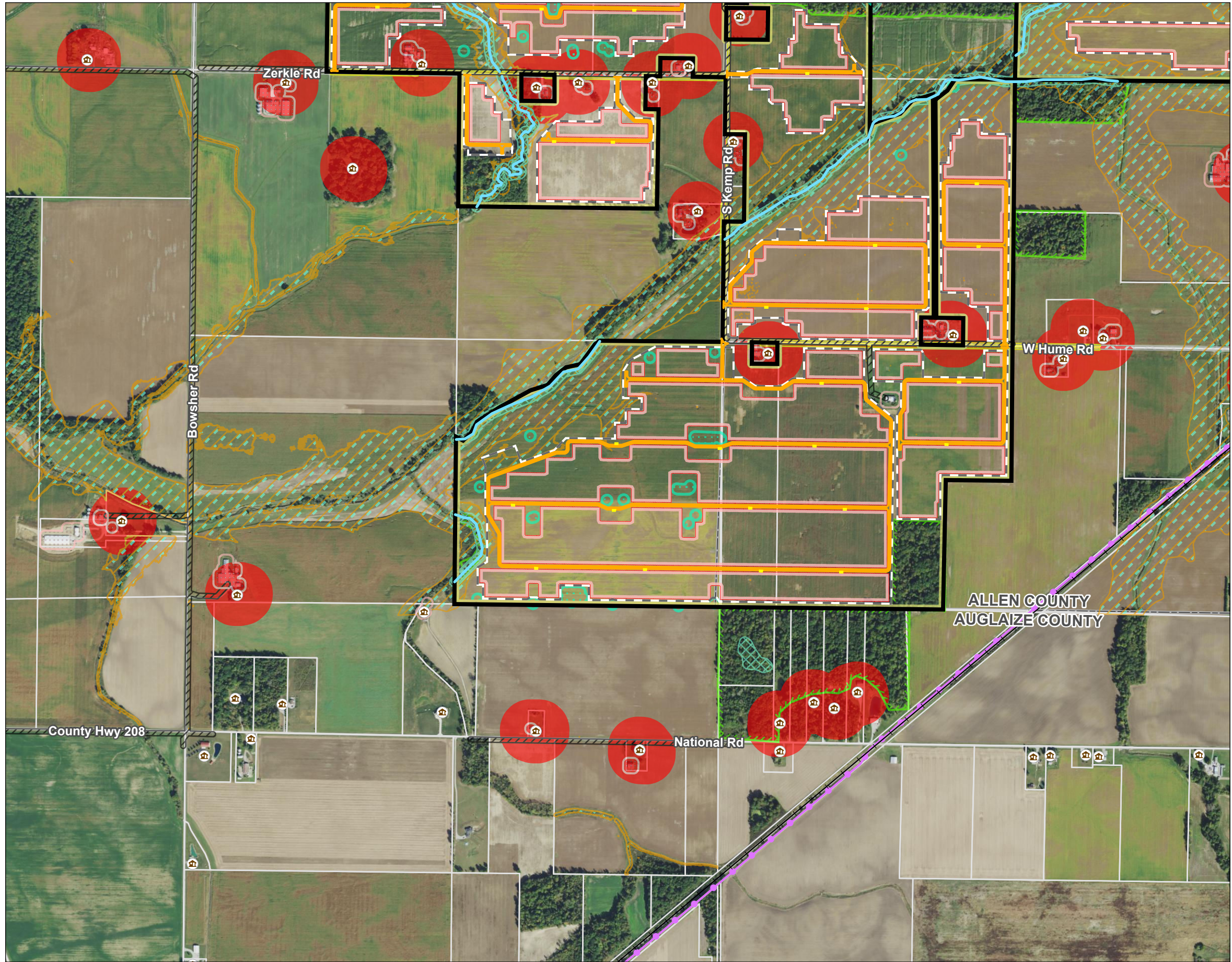
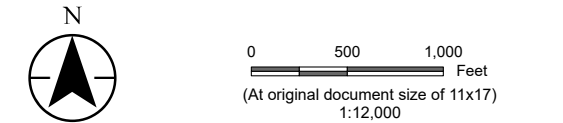


Figure No. 4-1
Title Project Constraints Map

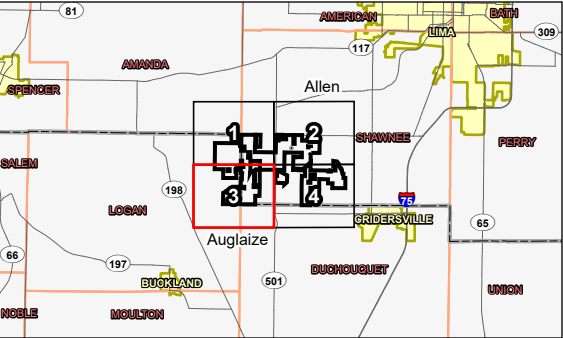
Client/Project Birch Solar 1, LLC
Birch Solar Project

2028113238

Project Location Allen and Auglaize Counties, Ohio
Prepared by JLH on 2020-12-11
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Legend	
	Project Area
	Parcel Boundary
	Solar Array
	Inverter
	Substation
	Fence
	Access Road
	Cemetery
	Place of Worship
	School
	Residence
	Existing Electric Transmission Line
	Railroad
	Field Delineated Waterway
	Field Delineated Wetland
	Project Boundary
	Residential Building
	Non-Residential Building
	Access Easement
	Drainage Easement
	Underground Water Line
	Sanitary Main
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	Forested Area
	Floodplain
	Railroad ROW
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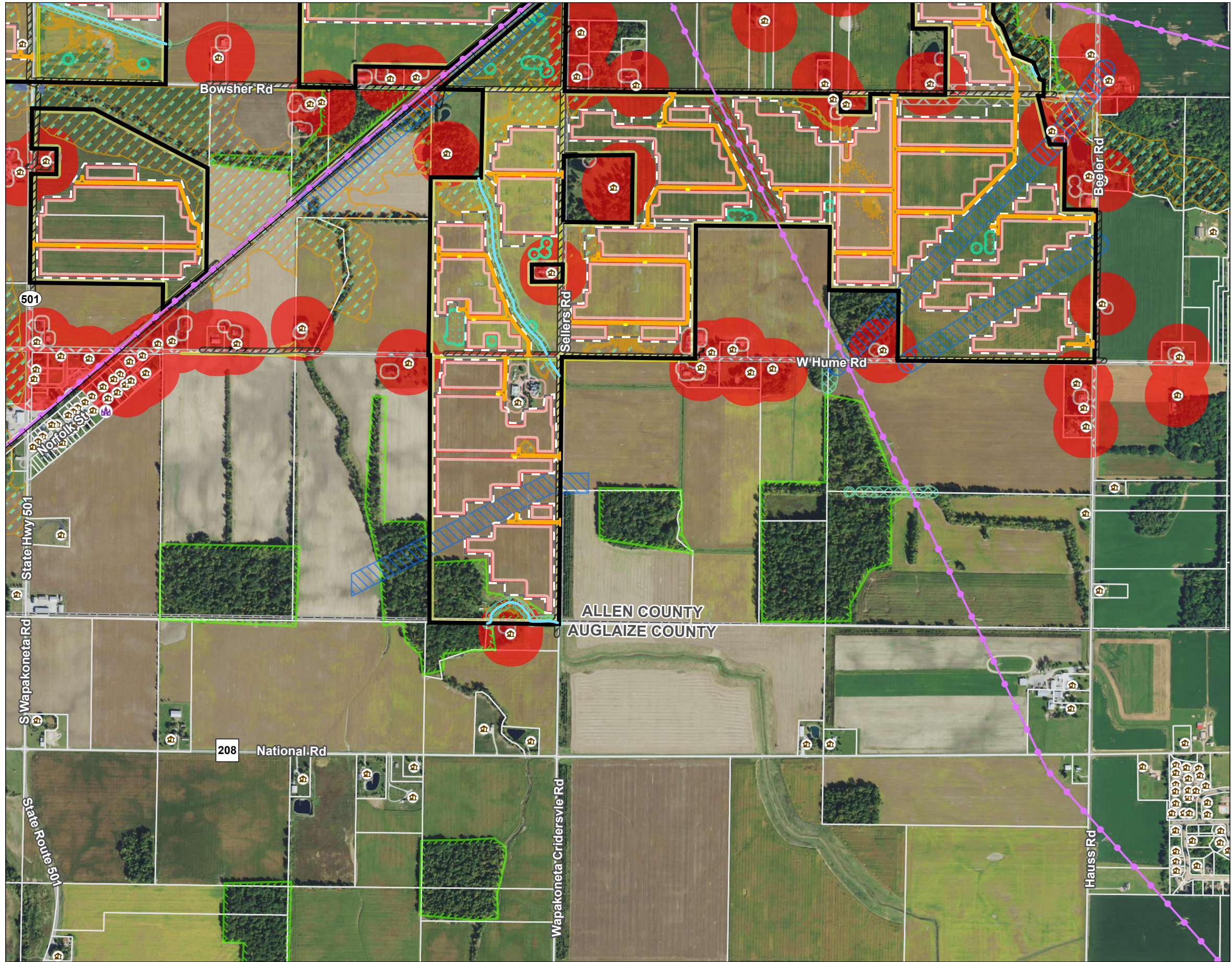


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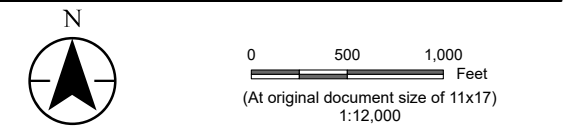
Title
Project Constraints Map

Client/Project
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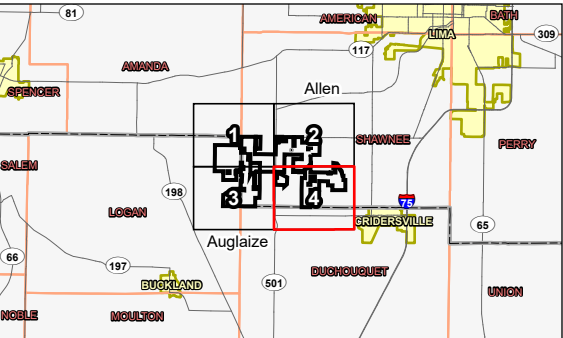
2028113238

Project Location
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| Substation | Access Easement |
| Fence | Drainage Easement |
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| Cemetery | Sanitary Main |
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| Railroad | Overhead Electric Line |
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Preliminary Design - Not for Construction

Stantec

Figure 08-1 Sensitive Receptors Map

Stantec

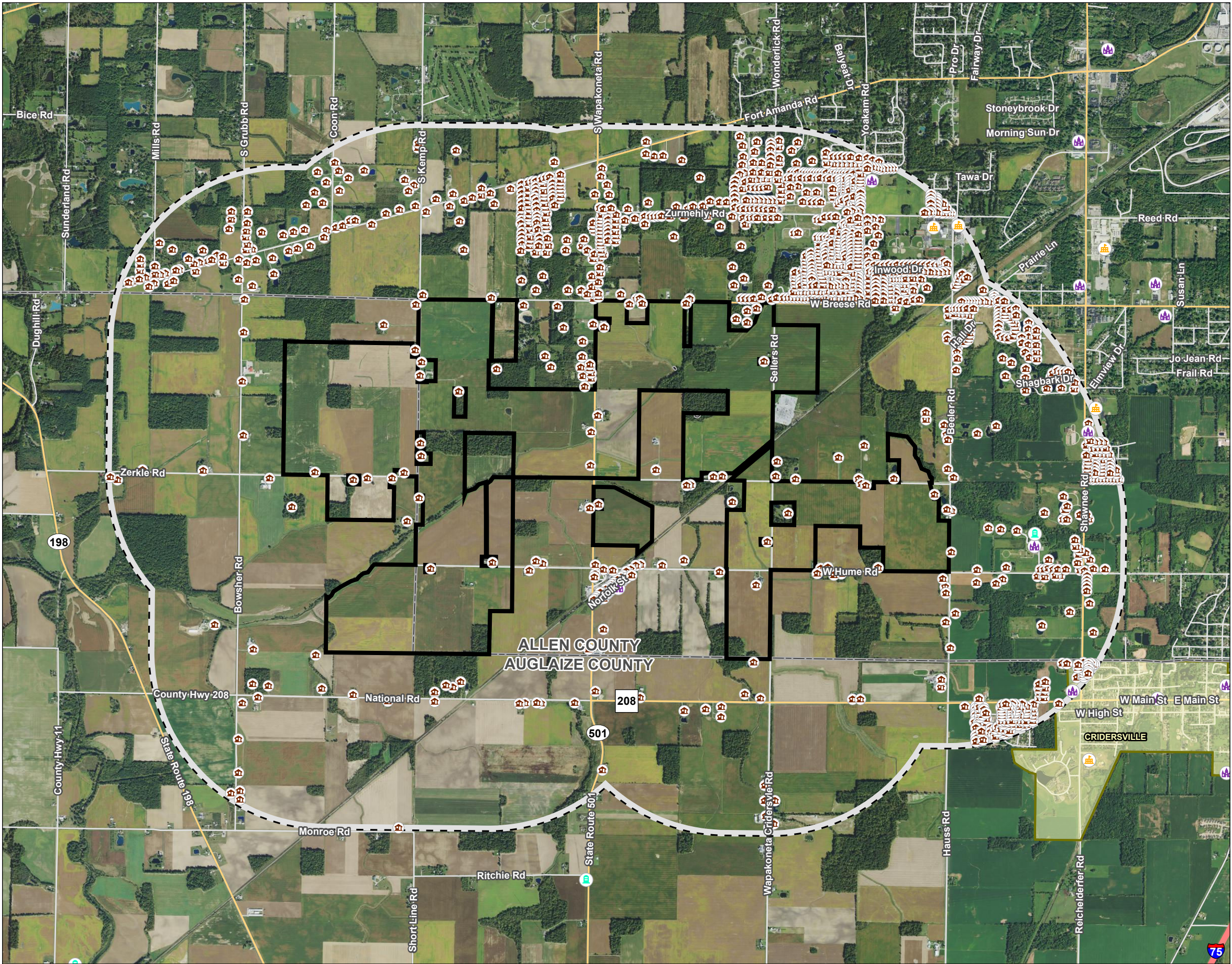


Figure No.

8-1

Title

Sensitive Receptors Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

2028113238

Project Location
Allen and Auglaize Counties, Ohio

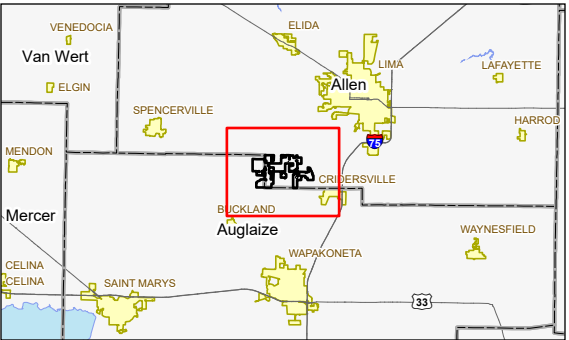
Prepared by JLH on 2020-12-11
TR by CA on 2021-01-23
IR by CMD on 2021-01-23



0 1,500 3,000
Feet
(At original document size of 11x17)
1:36,000

Legend

- Project Area
- 1 Mile Buffer
- Cemetery
- Place of Worship
- School
- Residence



Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Data Sources: Stantec, Lightsource, USGS, NADS
- Orthophotography: 2019 NAIP



Figure 08-2
Aquifers, Water Wells,
Source Water Protection Areas,
and Floodplains Map

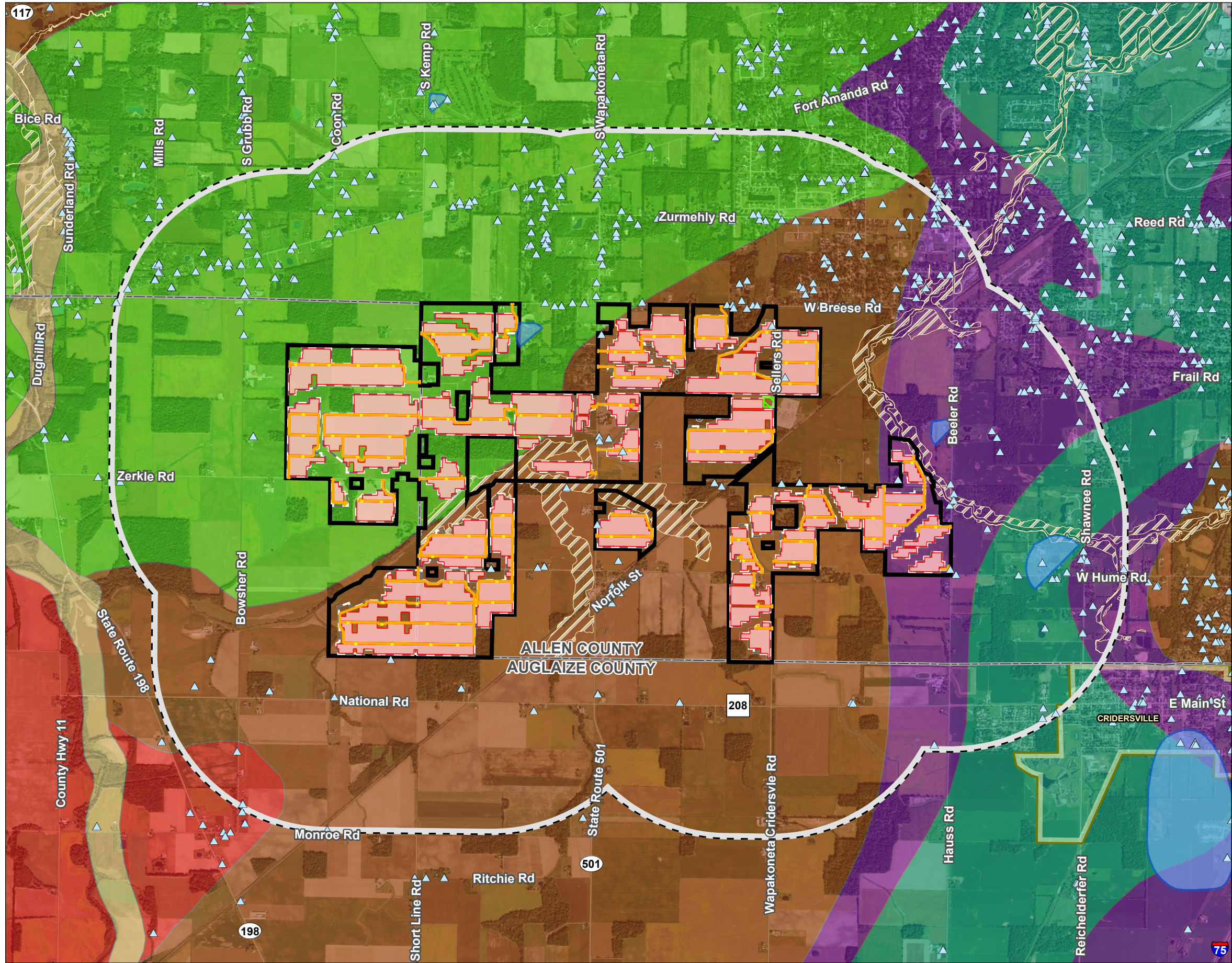


Figure No.
8-2

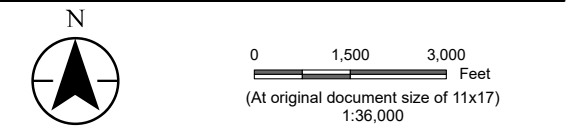
Title
Aquifers, Water Wells, Source Water Protection Areas, and Floodplains Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

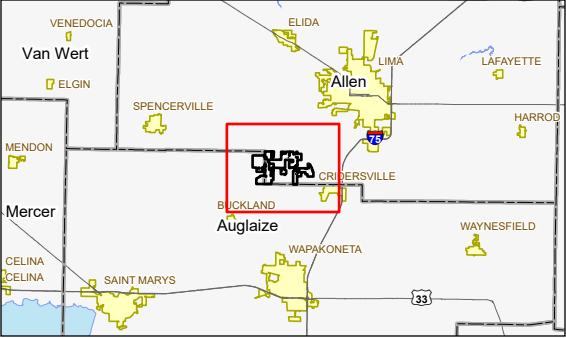
2028113238

Project Location
Allen and Auglaize Counties, Ohio

Prepared by J.L.H. on 2020-12-11
TR by C.A. on 2021-01-23
IR by C.M.D. on 2021-01-23



- Legend**
- Project Area
 - 1 Mile Buffer
 - Solar Array
 - Inverter
 - Substation
 - Fence
 - Access Road
 - Water Well
 - Source Water Protection Area
 - Unconsolidated Aquifer**
 - Auglaize River Alluvial Aquifer
 - Lima Complex Aquifer
 - Lima End Moraine Aquifer
 - Lima Ground Moraine Aquifer
 - Lima Thin Upland Aquifer
 - Teays River Valley Buried Valley Aquifer
 - FEMA Flood Hazard Area**
 - 100-year Flood Zone



Notes

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2. Data Sources: Stantec, Lightsource, USGS, FEMA, ODNr, NADS
3. Orthophotography: 2019 NAIP

Preliminary Design - Not for Construction

Stantec

Figure 08-3

Geological and Topographic Features Map

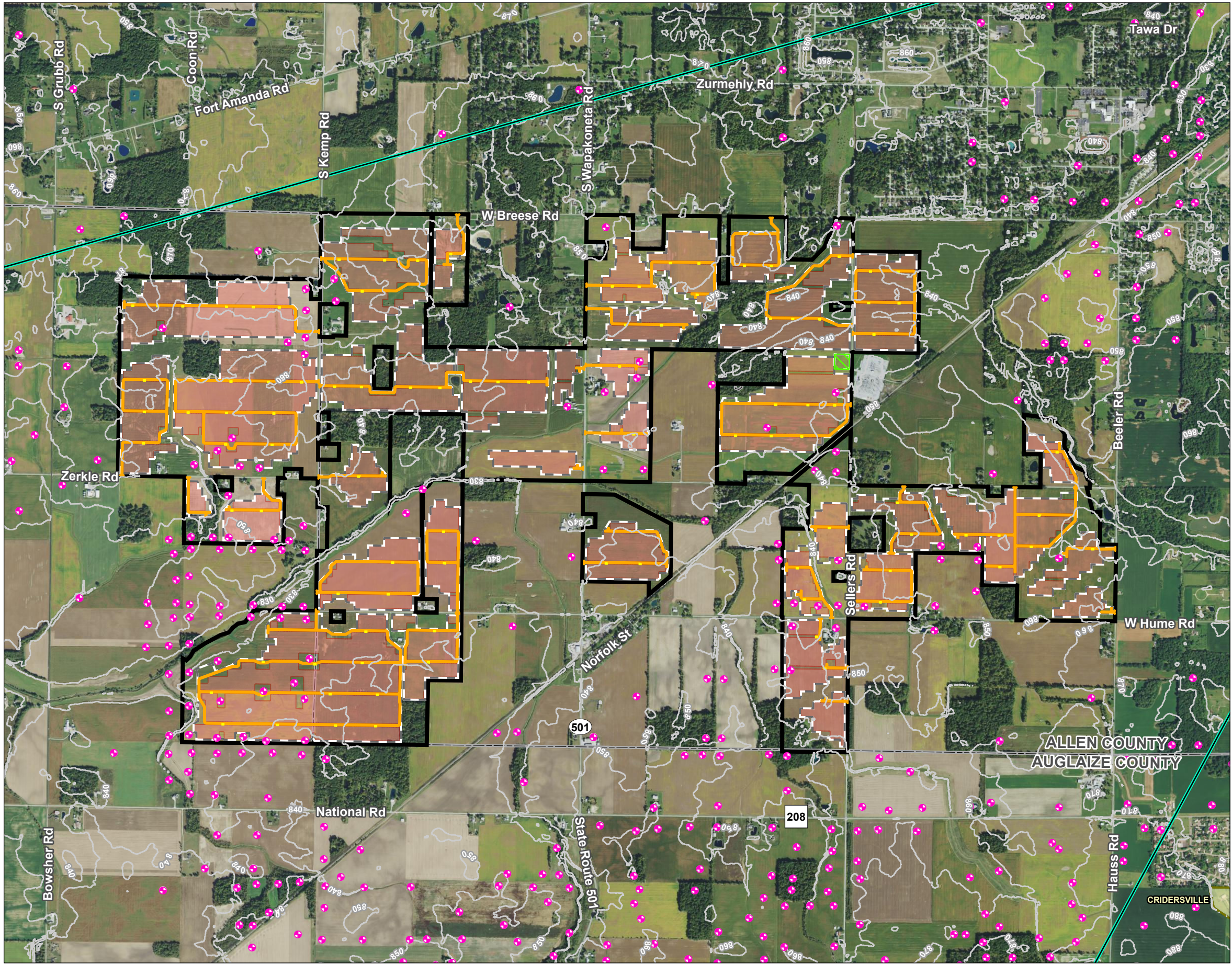
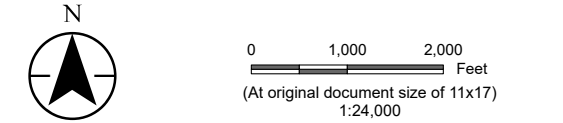


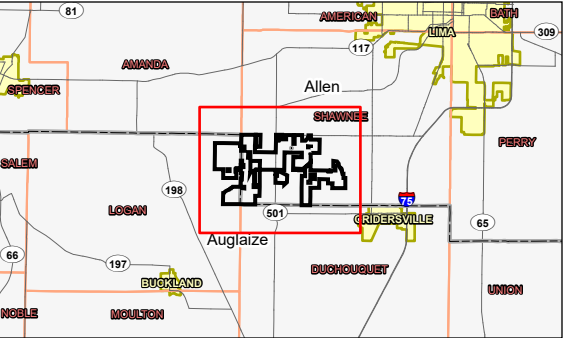
Figure No. 8-3
Title Geological and Topographic Features Map

Client/Project Birch Solar 1, LLC
Birch Solar Project

Project Location Allen and Auglaize Counties, Ohio
Prepared by JLH on 2020-12-11
TR by CA on 2021-01-23
IR by CMD on 2021-01-23



- Legend
- Project Area
 - Solar Array
 - Inverter
 - Substation
 - Fence
 - Access Road
 - Oil and Gas Well
 - Crude Oil Pipeline
 - 10ft Elevation Contour



Notes
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2. Data Sources: Stantec, Lightsource, USGS, ODNR, EIA, NADS
3. Orthophotography: 2019 NAIP

Preliminary Design - Not for Construction
Stantec

Figure 08-4 Ecological Communities Map

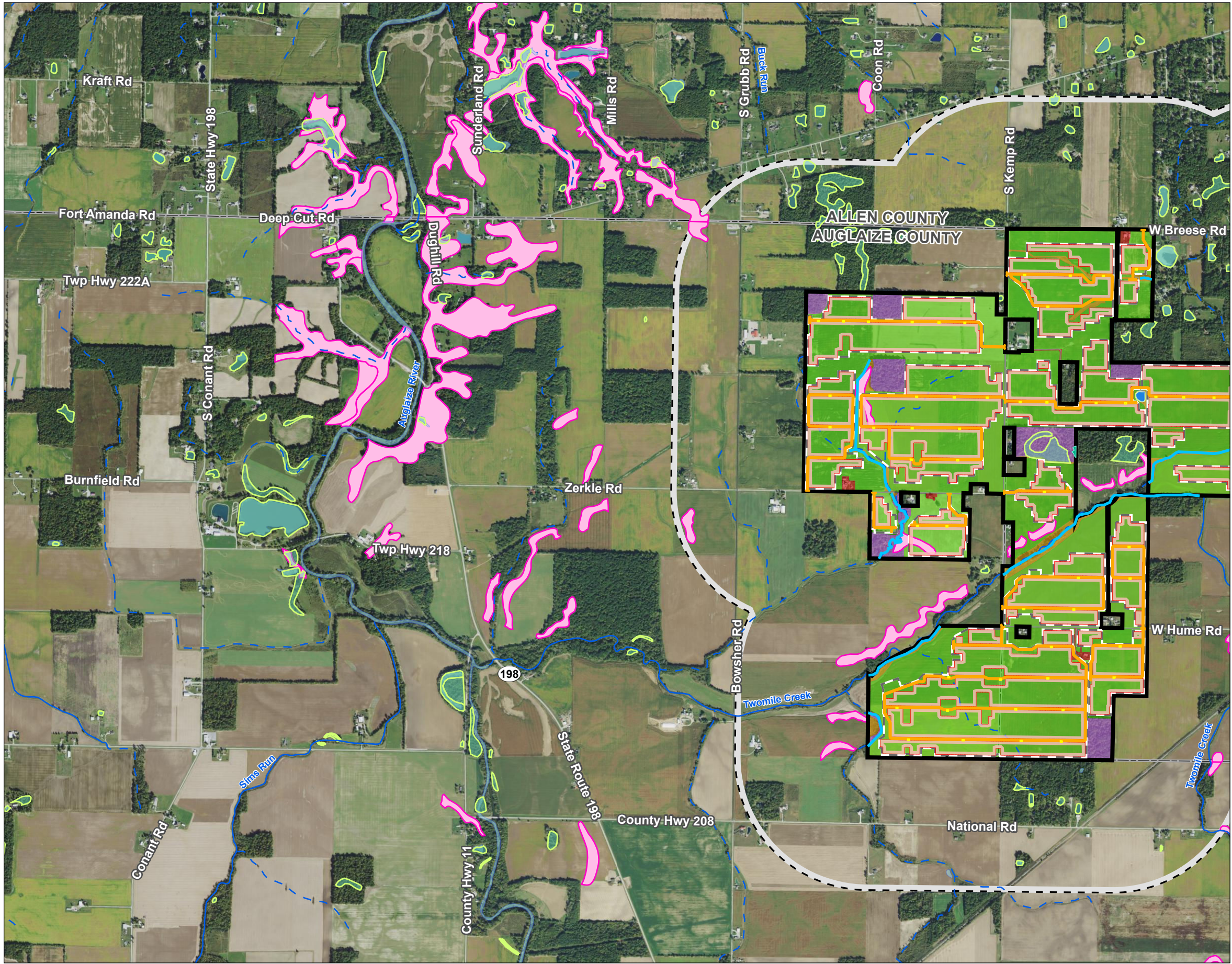


Figure No.
8-4

Title
Ecological Communities Map

Client/Project
Birch Solar 1, LLC
Birch Solar Project

2028113238

Project Location
Allen and Auglaize Counties, Ohio

Prepared by JLH on 2020-12-11
TR by CA on 2021-01-23
IR by CMD on 2021-01-23

N

01,0002,000

Feet

(At original document size of 11x17)

1:24,000

Legend

Project Area

0.5 Mile Buffer

Solar Array

Inverter

Substation

Fence

Access Road

Highly Erodible Soil

National Wetlands Inventory Feature

Perennial Stream

Intermittent Stream

Waterbody

Field Delineated Waterway

Field Delineated Wetland

Field Habitat Area

Agricultural Field

New Field

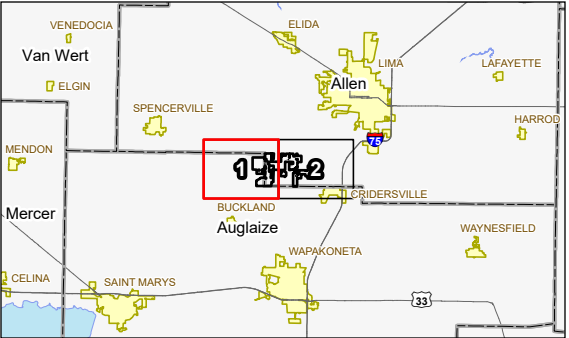
Old Field

Second Growth Deciduous Forest

Developed/Residential

Existing Roadway

Open Water



Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Sources: Stantec, Lightsource, USGS, USFWS, NRCS, NADS
3. Orthophotography: 2019 NAIP

Preliminary Design - Not for Construction

Stantec

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in

Case No(s). 20-1605-EL-BGN

Summary: Application - 2 of 31 (Figures beginning with 03-1) electronically filed by Christine M.T. Pirik on behalf of Birch Solar 1, LLC