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Sussex County

DELAWARE
sussexcountyde.gov

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COUNTY ADMINISTRATIVE OFFICES
2 THE CIRCLE | PO BOX 417
GEORGETOWN, DELAWARE

PLANNING & ZONING COMMISSION

ROBERT C. WHEATLEY, CHAIRMAN
KIM HOEY STEVENSON, VICE-CHAIRMAN
R. KELLER HOPKINS
J. BRUCE MEARS
HOLLY J. WINGATE



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JAMIE WHITEHOUSE, AICP, MRTPI
DIRECTOR OF PLANNING & ZONING

PLANNING AND ZONING AND COUNTY COUNCIL INFORMATION SHEET

Planning Commission Public Hearing Date: May 12th, 2022

Application: CU 2298 Freeman Solar, LLC

Applicant: Freeman Solar, LLC c/o John Soinenen
200 Liberty Street, 14th Floor
New York, NY 10281

Owner: Calhoun Ventures, LLC c/o Clarence D. Calhoun, Jr.
6714 DuPont Boulevard 7237 Calhoun Road
Milford, DE 19963

Site Location: Lying on the east and west side of Calhoun Road (S.C.R. 621) and South Shawnee Road (Route 36), approximately 1,267 feet south of Shawnee Road (Route 36).

Current Zoning: Agricultural Residential (AR-1), Medium Density Residential (MR) & General Residential (GR) Zoning District

Proposed Use: Solar Farm consisting of 75 Megawatts per acre of photovoltaic electric generation facility.

Comprehensive Land Use Plan Reference: Low Density Area & Developing Area

Councilmanic District: Ms. Green

School District: Milford School District

Fire District: Carlisle Fire Department

Sewer: On-site septic

Water: On-site well

Site Area: 350.96 acres +/-

Tax Map IDs.: 130-3.00-246.00, 247.00 & 247.02 & 130-6.00-75.00, 76.00, 92.00, 94.00, 95.00, 96.00 & 97.00

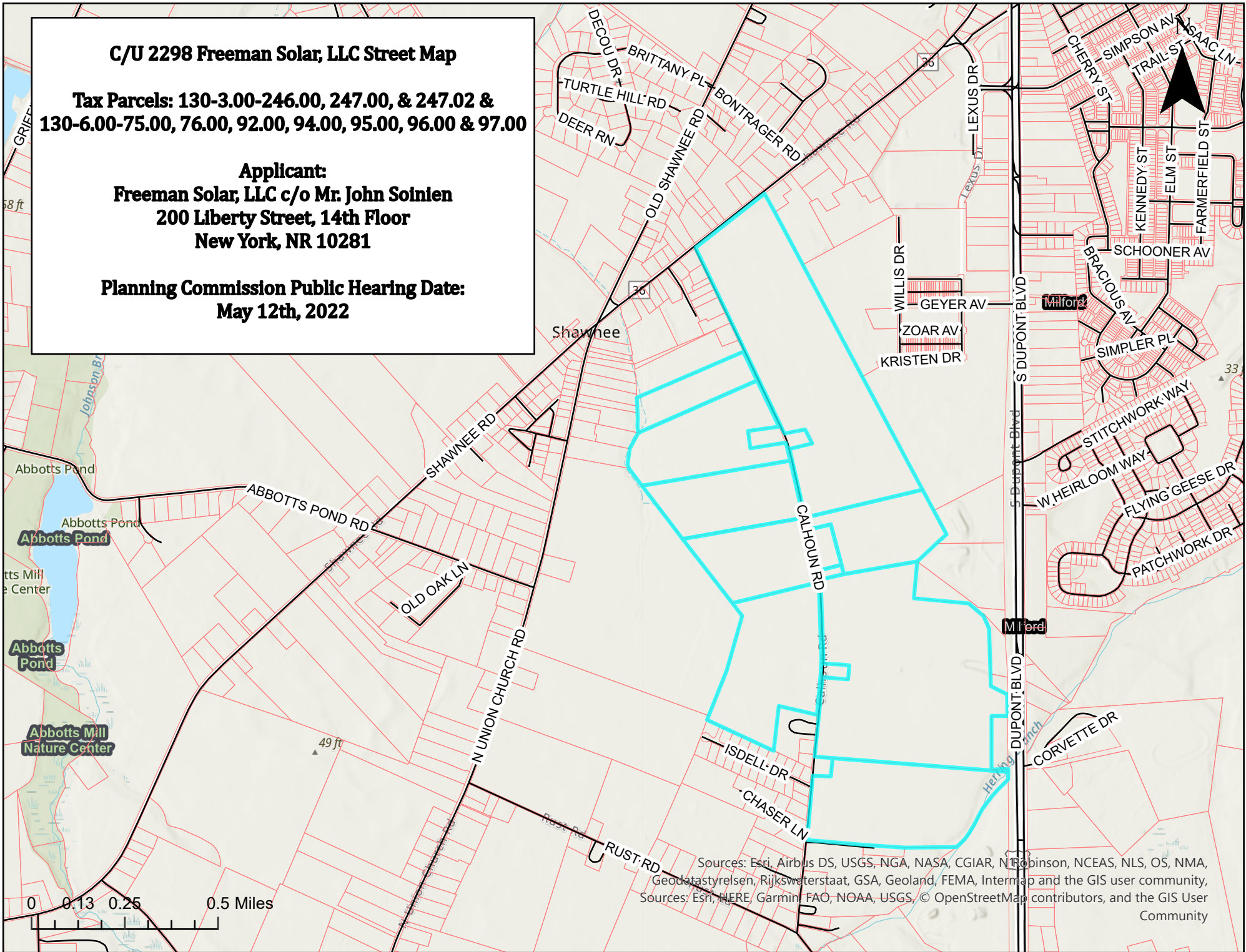


C/U 2298 Freeman Solar, LLC Street Map

Tax Parcels: 130-3.00-246.00, 247.00, & 247.02 & 130-6.00-75.00, 76.00, 92.00, 94.00, 95.00, 96.00 & 97.00

Applicant:
Freeman Solar, LLC c/o Mr. John Soinien
200 Liberty Street, 14th Floor
New York, NR 10281

Planning Commission Public Hearing Date:
May 12th, 2022



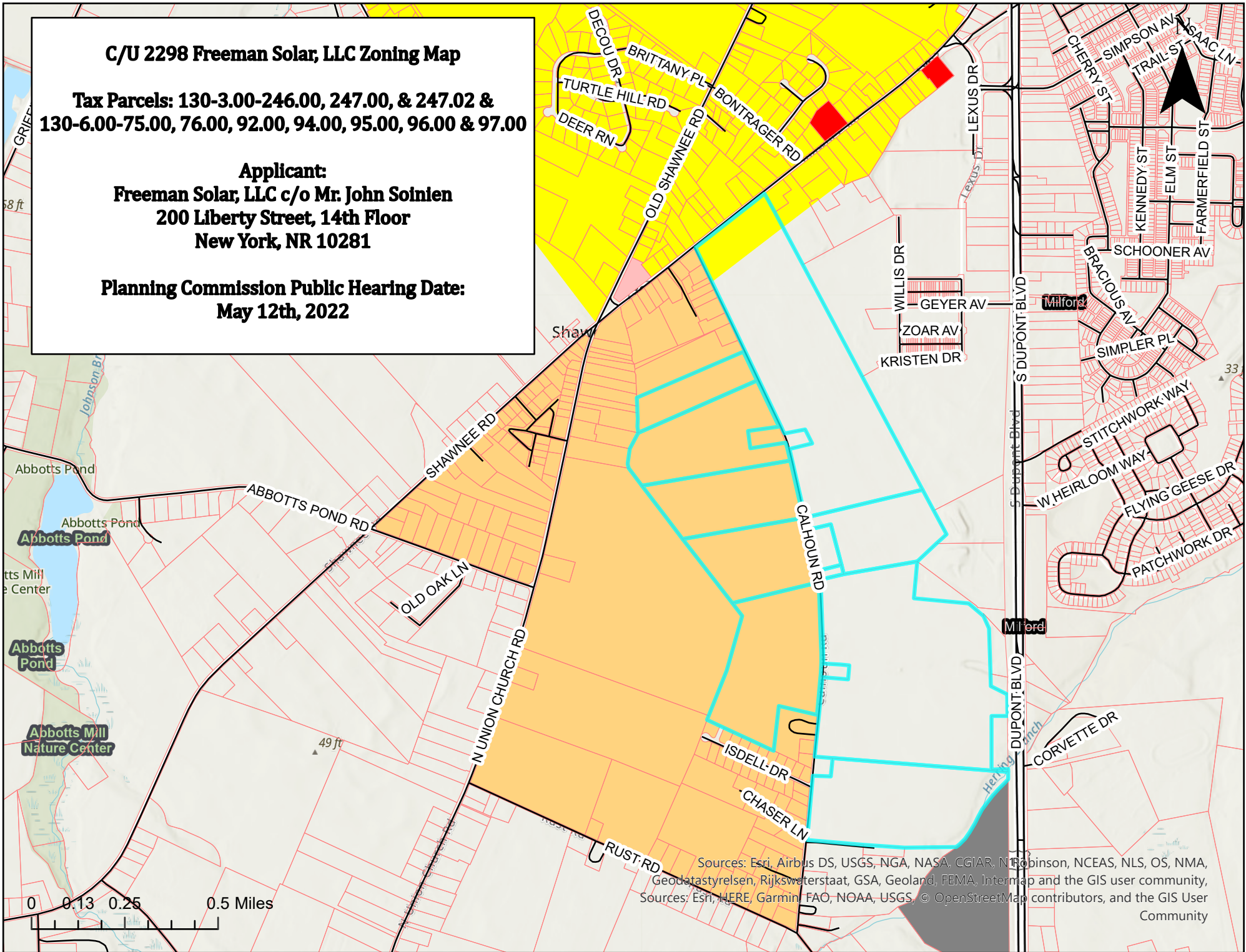
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C/U 2298 Freeman Solar, LLC Zoning Map

**Tax Parcels: 130-3.00-246.00, 247.00, & 247.02 &
130-6.00-75.00, 76.00, 92.00, 94.00, 95.00, 96.00 & 97.00**

**Applicant:
Freeman Solar, LLC c/o Mr. John Sojnien
200 Liberty Street, 14th Floor
New York, NR 10281**

**Planning Commission Public Hearing Date:
May 12th, 2022**



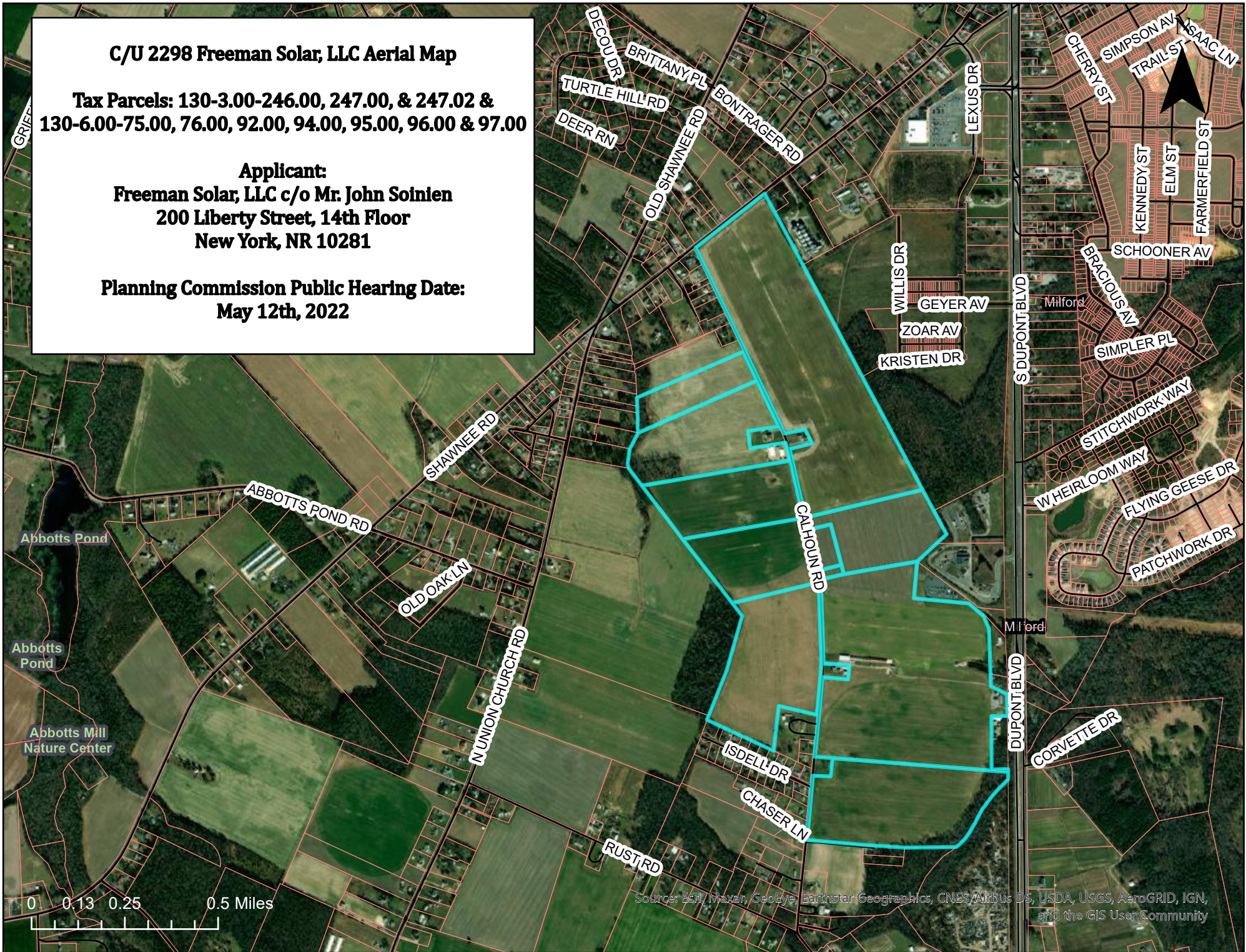
Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

C/U 2298 Freeman Solar, LLC Aerial Map

**Tax Parcels: 130-3.00-246.00, 247.00, & 247.02 &
130-6.00-75.00, 76.00, 92.00, 94.00, 95.00, 96.00 & 97.00**

**Applicant:
Freeman Solar, LLC c/o Mr. John Sojnien
200 Liberty Street, 14th Floor
New York, NR 10281**

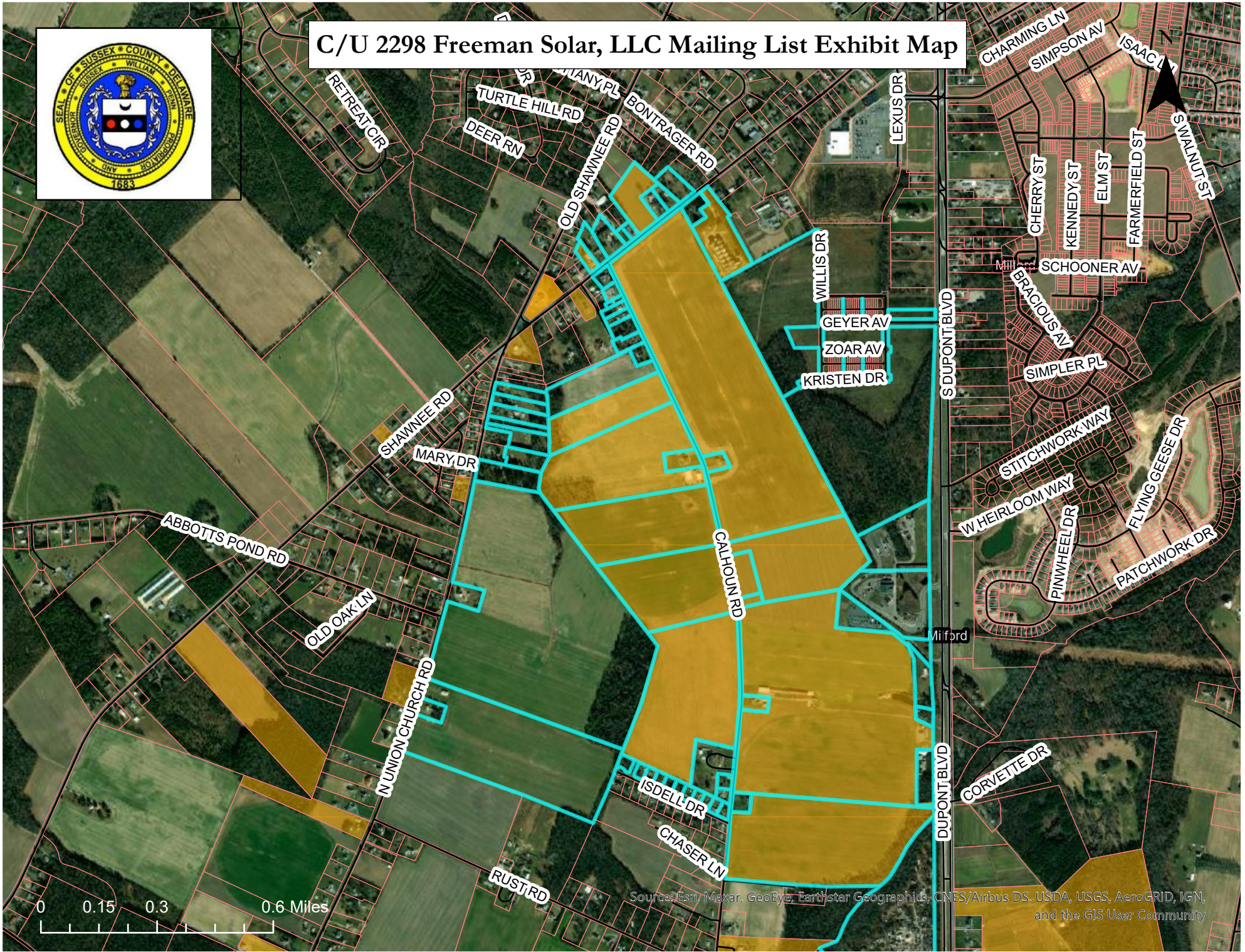
**Planning Commission Public Hearing Date:
May 12th, 2022**



Source: Esri/Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



C/U 2298 Freeman Solar, LLC Mailing List Exhibit Map



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Owner Name	Second Owner Name	Mailing Address	City	State	Zipcode	PIN
FITZGERALD SALVAGE AND RECYCLING	INC	PO BOX 26	LINCOLN	DE	19960	130-6.00-88.00
FANNIN DONNIE R	ELANE B FANNIN	722 N SHORE DR	MILFORD	DE	19963	130-3.00-170.00
KEY PROPERTIES GROUP LLC	<Null>	610 MARSHALL ST	MILFORD	DE	19963	130-3.00-170.01
CALHOUN VENTURES LLC	<Null>	6714 DUPONT BLVD	MILFORD	DE	19963	130-6.00-94.00
CALHOUN VENTURES LLC	<Null>	6714 DUPONT BLVD	MILFORD	DE	19963	130-6.00-95.00
CALHOUN VENTURES LLC	<Null>	6714 DUPONT BLVD	MILFORD	DE	19963	130-6.00-96.00
CALHOUN VENTURES LLC	<Null>	6714 DUPONT BLVD	MILFORD	DE	19963	130-6.00-97.00
CALHOUN CURTISS D TTEE	PATRICIA B CALHOUN TTEE REV TR	8028 DUPONT BLVD	MILFORD	DE	19963	130-6.00-94.01
ATTIX JENNIFER CALHOUN	<Null>	7485B CALHOUN RD	MILFORD	DE	19963	130-6.00-94.02
CALHOUN VENTURES LLC	<Null>	6714 DUPONT BLVD	MILFORD	DE	19963	130-6.00-75.00
MARIANO FULVIANO	SEFERINA NAVA MARIANO	17303 ISDELL ROAD	MILFORD	DE	19963	130-6.00-124.00
GRAY AARON DION	<Null>	17291 ISDELL RD	MILFORD	DE	19963	130-6.00-125.00
FERNANDEZ SHILOH	<Null>	17271 ISDELL RD	MILFORD	DE	19963	130-6.00-127.00
FRY JOHNNA	<Null>	17295 ISDELL ROAD	MILFORD	DE	19963	130-6.00-128.00
CALHOUN CHRISTOPHER D	AMY G CALHOUN	7237 CALHOUN RD	MILFORD	DE	19963	130-3.00-247.01
CALHOUN VENTURES LLC	<Null>	6714 DUPONT BLVD	MILFORD	DE	19963	130-3.00-247.02
REID WILLIAM B	<Null>	7456 UNION CHURCH RD	MILFORD	DE	19963	130-6.00-74.01
CALHOUN VENTURES LLC	<Null>	6714 DUPONT BLVD	MILFORD	DE	19963	130-6.00-76.00
TILLMES ARTHUR E III	<Null>	8091 CALHOUN RD	MILFORD	DE	19963	130-6.00-76.01
DRAIN ROBERT T & SEENA A	DRAIN	8064 CALHOUN RD	MILFORD	DE	19963	130-6.00-76.02
COVERDALE NICHOLAS A	<Null>	8046 CALHOUN ROAD	MILFORD	DE	19963	130-6.00-76.03
CALHOUN VENTURES LLC	<Null>	6714 DUPONT BLVD	MILFORD	DE	19963	130-6.00-92.00
SYLVESTER SAMUEL E	<Null>	8065 CALHOUN RD	MILFORD	DE	19963	130-6.00-93.00
MARTINEZ KATHERINE G	<Null>	3 BAY RIDGE ACE WEST VANCOU	BC CANADA	<Null>	V7	130-6.00-72.01
SHAWNEE FARM LLC	<Null>	105 FOULK RD	VILMINGTO	DE	19803	130-3.00-658.00
WEBB TIMOTHY D	JEAN WEBB	6471 OLD SHAWNEE RD	MILFORD	DE	19963	130-3.00-176.00
ROGERS STEVEN L	PATRICIA A ROGERS	6918 SHAWNEE RD	MILFORD	DE	19963	130-3.00-177.00
GOLDEN LINDA G	KIMBERLY HUMPHREY	6930-SHAWNEE RD	MILFORD	DE	19963	130-3.00-178.00
ROGERS RICHARD A	FAYE T ROGERS	7042 CALHOUN RD	MILFORD	DE	19963	130-3.00-240.00
CASTELOW EDNA MARLENE EVANS	<Null>	7052 CALHOUN RD	MILFORD	DE	19963	130-3.00-241.00
EVANS WILLIAM E JR	WILIAM E EVANS III JENA MARIE WILKINS	7070 CALHOUN RD	MILFORD	DE	19963	130-3.00-242.00
BASS SAM	JENNIFER LYNN CLAUGES	7084 CALHOUN RD	MILFORD	DE	19963	130-3.00-243.00
GILLIS SABRINA	<Null>	6868 SHAWNEE RD	MILFORD	DE	19963	130-3.00-171.00
WRIGHT DOROTHY E	<Null>	6406 MELODY LN	MILFORD	DE	19963	130-6.00-70.00
WEST AARON R	KELLY S WEST	7425 N UNION CHURCH RD	MILFORD	DE	19963	130-6.00-73.00
RUST ROY C B SR	<Null>	17315 ISDELL DR	MILFORD	DE	19963	130-6.00-123.00
DELAWARE SOLID WASTE AUTHORITY	<Null>	1128 S. BRADFORD STREET	DOVER	DE	19904	130-6.00-98.00
DELAWARE SOLID WASTE AUTHORITY	<Null>	1128 S BRADFORD ST	DOVER	DE	19904	130-6.00-99.00
MILFORD CITY OF	<Null>	201 S WALNUT ST	MILFORD	DE	19963	130-6.00-99.02

JONES RUSSELL	<Null>	17281 ISDELL DR	MILFORD	DE	19963	130-6.00-126.00
CLENDANIEL DEBRA LYNN	GLENN WAYNE NAILOR DARLENE LYNN HITC	6700 DUPONT BLVD	MILFORD	DE	19963	130-6.00-100.00
CLENDANIEL DEBRA LYNN	GLENN WAYNE NAILOR DARLENE LYNN HITC	6700 DUPONT BLVD	MILFORD	DE	19963	130-6.00-100.01
FARISSIER JASON	JENNIFER FARISSIER	20412 SPANGLER DR	LINCOLN	DE	19960	130-3.00-245.00
WEBB ALTON J JR & JUANITA	<Null>	7098 CALHOUN RD	MILFORD	DE	19963	130-3.00-245.01
YUTZY WESTON J	STEPHANIE J YUTZY	106 EAST ST	MILFORD	DE	19952	130-3.00-156.01
ATAK CHARLOTTE	<Null>	17347 ISDELL RD	MILFORD	DE	19963	130-6.00-120.00
SHAWNEE FARM LLC	<Null>	105 FOULK RD	MILFORD	DE	19803	130-3.00-261.01
CALHOUN CLARENCE D JR	<Null>	7237 CALHOUN RD	MILFORD	DE	19963	130-3.00-246.00
CALHOUN C DONNELL JR TRUSTEE	IRENE W CALHOUN TRUSTEE	7237 CALHOUN RD	MILFORD	DE	19963	130-6.00-158.00
JONES JEREMIAH L	<Null>	7373 N UNION CHURCH RD	MILFORD	DE	19963	130-3.00-223.01
ROOP VIRGINIA M TRUSTEE	<Null>	8462 COUNTRYSIDE DR	MILFORD	DE	19963	130-6.00-122.00
PHILLIPS JOHN H	<Null>	8082 CALHOUN RD	MILFORD	DE	19963	130-6.00-119.00
MOORE WENDY L	<Null>	65 WISTERIA DRIVE	MILFORD	DE	19963	130-3.00-172.01
CALHOUN CLARENCE D JR	<Null>	7237 CALHOUN RD	MILFORD	DE	19963	130-3.00-247.00
MILFORD GRAIN CO INC	<Null>	6789 SHAWNEE RD	MILFORD	DE	19963	130-3.00-249.00
MILFORD GRAIN CO	<Null>	6789 SHAWNEE RD	MILFORD	DE	19963	130-3.00-250.00
JOHNSON MARK A	<Null>	6832 SHAWNEE RD	MILFORD	DE	19963	130-3.00-170.02
LIDDELL SHARON M	<Null>	17241 ISDELL RD	MILFORD	DE	19963	130-6.00-129.00
MARINER CHARLES H	BRENDA J MARINER	7000 CALHOUN RD	MILFORD	DE	19963	130-3.00-237.00
MCKEE MARCY R	<Null>	7020 CALHOUN RD	MILFORD	DE	19963	130-3.00-238.00
JESTER JAMES R	JOYCE A JESTER	7036 CALHOUN RD	MILFORD	DE	19963	130-3.00-239.00

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Sussex County

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Memorandum

To: Sussex County Planning Commission Members
From: Ms. Lauren DeVore, Planner III
CC: Mr. Vince Robertson, Assistant County Attorney and Applicant
Date: April 26, 2022
RE: Staff Analysis for C/U 2298 Freeman Solar, LLC

This memo is to provide background and analysis for the Planning Commission to consider as a part of application C/U 2298 Freeman Solar, LLC to be reviewed during the May 12th, 2022, Planning Commission Meeting. This analysis should be included in the record of this application and is subject to comments and information that may be presented during the public hearing.

The request is for a Conditional Use for Tax Parcels: 130-3.00-246.00, 247.00, 247.02 & 130-6.00-75.00, 76.00, 92.00, 94.00, 95.00, 96.00 & 97.00 to allow for a solar farm consisting of 75 megawatts per acre of photovoltaic electric generation facility. The properties are located on the east and west side of Calhoun Road (S.C.R. 621) and South Shawnee Road (Route 36), approximately 1,267 feet south of Shawnee Road (Route 36). The parcels comprise a total area of 350.96 acres +/-.

Comprehensive Plan Analysis

The 2018 Sussex County Comprehensive Plan Update (Comprehensive Plan) provides a framework of how land is to be developed. As part of the Comprehensive Plan, a Future Land Use Map is included to help determine how land should be zoned to ensure responsible development. The Future Land Use Map in the plan indicates that the parcels have a designation of “Low Density Area” (to include Parcels 92.00 and 94.00) and “Developing Area” (to include all other parcels as part of this Application). The adjacent parcels to the south and east subject properties retain the Future Land Use Map designation of “Low Density Area.” The properties on the opposite side of S. DuPont Boulevard (Route 113) are also designated as “Low Density Areas.” The parcels to the north and to the west also have a Future Land Use Map designation of “Developing Area.” The balance of the property to the northeast of the subject site contains the Future Land Use Map designation of “Municipalities” as these properties are located within the incorporated town limits of the City of Milford.

As outlined within the 2018 Sussex County Comprehensive Plan, the primary uses envisioned in Low Density Areas are agricultural activities and homes. Business development should be largely confined to businesses addressing the needs of these two uses. Industrial and agribusiness uses that support or depend on agriculture should be permitted. The focus of retail and office uses in Low Density Areas should be providing convenience goods and services to nearby residents. Commercial uses in these residential areas should be limited in their location, size, and hours of operation. More intense commercial uses should be avoided in these areas. Institutional and commercial uses may be appropriate depending on surrounding uses. (Sussex County Comprehensive Plan, 4-19).



Furthermore, as also outlined within the 2018 Sussex County Comprehensive Plan, The Developing Areas are newer, emerging growth areas that demonstrate the characteristics of developmental pressures. Most of the proposed Developing Areas are adjacent to municipalities, within or adjacent to potential future annexation areas of a municipality, or adjacent to Town Centers. – A range of housing types are appropriate in Developing Areas, including single family homes, townhouses, and multi-family units. In selected areas and at appropriate intersections, commercial uses should be allowed. A variety of office uses would be appropriate in many areas. Portions of the Developing Areas with good road access and few nearby homes should allow for business and industrial parks. Appropriate mixed-use development should also be allowed. In doing so, careful mixtures of homes with light commercial and institutional uses can be appropriate to provide for convenient services and to allow people to work close to home (Sussex County Comprehensive Plan, 4-14).

Zoning Information

The subject properties are zoned Agricultural Residential (AR-1) District, Medium Density Residential (MR) District and General Residential (GR) District. The adjacent properties on the west side of Calhoun Road are zoned General Residential (GR) District. The properties on the east side of Calhoun Road are zoned Agricultural Residential (AR-1) District. The parcels to the north of the subject property on the opposite side of the road Shawnee Road (Route 36) are zoned Medium Density Residential (MR) District with a single property to the northeast at the intersection of Shawnee Road and Old Shawnee Road being zoned Neighborhood Business (B-1) District.

Existing Conditional Uses within the Vicinity of the Subject Site

Since 1970, there have been five (5) Conditional Use applications within less than a 0.25-mile radius of the application site. The first application is Conditional Use No. 183 Milford Grain Co. to allow for a grain dryer, storage tanks and office within an Agricultural Residential (AR-1) and Medium Density Residential (MR) Zoning District. The Application was approved by the Sussex County Council at their meeting of Tuesday, January 8, 1974. The second application is Conditional Use No. 551 Richard and Virginia Roop to allow for the establishment of an automobile sales and repair shop within an Agricultural Residential (AR-1) Zoning District. The Application was approved by the Sussex County Council at their meeting of Tuesday, October 23, 1979. The third application is Conditional Use No. 648 Irving J. Hall to allow for an automobile repair shop to be located within the General Residential (GR) Zoning District. The Application was approved by the Sussex County Council at their meeting of Tuesday, October 13, 1981. The fourth application is Conditional Use No. 911 Fredrick Golden to allow for restoration of antique and custom cars within a Medium Density Residential (MR) Zoning District. The Application was withdrawn on August 15, 1989, after being denied by the Planning and Zoning Commission at their meeting of Thursday, July 27, 1989. The fifth application is Conditional Use No. 1909 Thomas P. Collins to operate a beauty salon within a General Residential (GR) Zoning District. The Application was approved by the Sussex County Council at their meeting of Tuesday, September 20, 2011, and the change was adopted through Ordinance No. 2220.

Based on the analysis of the land use, surrounding zoning and uses, the Conditional Use to allow for the placement of a 75 megawatt per acre photovoltaic electric generation facility in this location, subject to considerations of scale and impact, could be considered as being consistent with the land use, area zoning and surrounding uses.

Conditional Use Applications (w/in a 0.25 mile radius of the subject site)*								
Application Number	Application Name	Current Zoning	Proposed Use	P&Z Decision	P&Z Decision Date	CC Decision	CC Decision Date	Ordinance Number
CU 183	Milford Grain Co.	AR-1 & MR	Grain dryer, storage tanks & office	N/A	N/A	Approved	1/8/1974	N/A
CU 551	Richard & Virginia Roop	AR-1	Automobile sales and	N/A	N/A	Approved	10/23/1979	N/A
CU 648	Irving J. Hall	GR	Automobile Repair Shop	N/A	N/A	Approved	10/13/1981	N/A
CU 911	Fredrick Golden	MR	Restoration of Antique & Custom Cars	Recommended Denial	7/27/1989	Withdrawn	Withdrawn	Withdrawn
CU 1909	Thomas P. Collins	GR	Beauty Salon	Recommended Approval	8/25/2011	Approved	9/20/2011	2220

File #: CU 2298
202110066

Planning & Zoning Commission Application Sussex County, Delaware

Sussex County Planning & Zoning Department
2 The Circle (P.O. Box 417) Georgetown, DE 19947
302-855-7878 ph. 302-854-5079 fax

Type of Application: (please check applicable)

Conditional Use
Zoning Map Amendment

Site Address of Conditional Use/Zoning Map Amendment

Various parcels situated along Calhoun Road, Milford, Delaware 19963

Type of Conditional Use Requested:

Installation of a solar farm consisting of approximately 75 MW AC photovoltaic electric generation facility

130-3.00-246.00, 247.00 and 247.02

Tax Map #: 130-6.00-75.00, 76.00, 92.00, 94.00, 95.00, 96.00 & 97.00 **Size of Parcel(s):** 350.96 acres

Current Zoning: AR-1, GR & MR **Proposed Zoning:** AR-1, GR & MR Cond'l Use **Size of Building:** n/a

Land Use Classification: Developing Area/Low Density Area

Water Provider: On-site well **Sewer Provider:** On-site septic

Applicant Information

Applicant Name: Freeman Solar LLC
Applicant Address: 200 Liberty St., 14th Floor
City: New York State: NY ZipCode: 10281
Phone #: (617) 448-1318 E-mail: John.Soininen@brookfieldrenewable.com

Owner Information

Owner Name: Calhoun Ventures, LLC Clarence D. Calhoun, Jr.
Owner Address: 6714 DuPont Blvd. 7237 Calhoun Road
City: Milford State: DE Zip Code: 19963
Phone #: _____ E-mail: _____

Agent/Attorney/Engineer Information

Agent/Attorney/Engineer Name: David C. Hutt, Esquire | Morris James LLP
Agent/Attorney/Engineer Address: 107 W. Market St.; P.O. Box 690
City: Georgetown State: DE Zip Code: 19947
Phone #: (302) 856-0015 E-mail: dhutt@morrisjames.com



Check List for Sussex County Planning & Zoning Applications

The following shall be submitted with the application

Completed Application

Provide eight (8) copies of the Site Plan or Survey of the property

- Survey shall show the location of existing or proposed building(s), building setbacks, parking area, proposed entrance location, etc.
- Provide a PDF of Plans (may be e-mailed to a staff member)
- Deed or Legal description

Provide Fee \$500.00

Optional - Additional information for the Commission/Council to consider (ex. architectural elevations, photos, exhibit books, etc.) If provided submit 8 copies and they shall be submitted a minimum of ten (10) days prior to the Planning Commission meeting.

Please be aware that Public Notice will be sent to property owners within 200 feet of the subject site and County staff will come out to the subject site, take photos and place a sign on the site stating the date and time of the Public Hearings for the application.

DeIDOT Service Level Evaluation Request Response

PLUS Response Letter (if required)

The undersigned hereby certifies that the forms, exhibits, and statements contained in any papers or plans submitted as a part of this application are true and correct.

I also certify that I or an agent on my behalf shall attend all public hearing before the Planning and Zoning Commission and the Sussex County Council and any other hearing necessary for this application and that I will answer any questions to the best of my ability to respond to the present and future needs, the health, safety, morals, convenience, order, prosperity, and general welfare of the inhabitants of Sussex County, Delaware.

Signature of Applicant/Agent/Attorney



Jason Spreyer

Date: July 1, 2021

Signature of Owner



David Herksovits (authorized by owners)

Date: July 1, 2021

For office use only:

Date Submitted: 7/16/21

Staff accepting application: HBA

Location of property: _____

Fee: \$500.00 Check #: 106913

Application & Case #: 202110066

Subdivision: _____

Date of PC Hearing: _____

Date of CC Hearing: _____

Recommendation of PC Commission: _____

Decision of CC: _____

Mailing List Application Form

For Applications Requiring a Public Hearing in Sussex County

Please fill out this form and return it with your application. As a part of your application, a Public Hearing is required. The property owners within 200' of the site of the application will be notified. Staff will notify the property owners.

Application Information:

Site Address: Various Parcels situated along Calhoun Road, Milford, DE 19963
130-6.00-75.00, 76.00, 92.00, 94.00, 95.00, 96.00 & 97.00

Parcel #: see above

Site Address: Various Parcels situated along Calhoun Road, Milford, DE 19963
130-3.00-246.00-247.00 and 247.02

Parcel #: see above

Applicant Name: Freeman Solar LLC

Owner Name: Calhoun Ventures, LLC
Clarence D. Calhoun, Jr.

Type of Application:

Conditional Use:
Change of Zone:
Subdivision:
Board of Adjustment:

Date Submitted: 7/2/21

For office use only:

Date of Public Hearing: _____

File #: _____

Date list created: _____

List created by: _____

Date letters mailed: _____

Letters sent by: _____

PARTICULAR DESCRIPTION
FOR THE PURPOSE OF A
CONDITIONAL USE APPLICATION
FOR
FREEMAN SOLAR, LLC

LANDS NOW OR FORMERLY OF
CLARENCE D. CALHOUN, JR.
CALHOUN VENTURES, LLC

CEDAR CREEK HUNDRED
SUSSEX COUNTY, DELAWARE

TAX MAP

130-3.00-246.00
130-3.00-247.00
130-3.00-247.02
130-6.00-75.00
130-6.00-76.00
130-6.00-92.00
130-6.00-94.00
130-6.00-95.00
130-6.00-96.00
130-6.00-97.00

All those certain lot, piece, and parcel of land, located along East and West side of Calhoun Road and South Shawnee Road and West of South Dupont Boulevard, situate in Cedar Creek Hundred, Sussex County, State of Delaware, and being more particularly described as follows:

BEGINNING, for the purpose of a conditional use for the above-described tax parcel numbers the following combined description:

Thence along a portion of **TM 130-3.00-247.00.**

- 1) South 28 degrees, 56 minutes, 22 seconds East, 904.15 feet more or less to a point,**

- 2) South 28 degrees, 32 minutes, 01 seconds East, 2,724.75 feet more or less to a point,**

Thence along portion of TM 130-6.00-97.00

- 1) South 28 degrees, 27 minutes, 05 seconds East, 620.77 feet more or less to a point,**
2) South 48 degrees, 00 minutes, 07 seconds West, 445.28 feet more or less to a point,

Thence along a portion of TM 130-6.00-94.00

- 1) South 05 degrees, 18 minutes, 20 seconds West, 406.86 feet more or less to a point,**
2) South 84 degrees, 41 minutes, 27 seconds East, 608.14 feet more or less to a point,
3) South 49 degrees, 33 minutes, 52 seconds East, 214.02 feet more or less to a point,
4) South 03 degrees, 32 minutes, 45 seconds East, 571.31 feet to a point,
5) South 07 degrees, 30 minutes, 31 seconds East, 217.91 feet more or less to a point,
6) South 59 degrees, 07 minutes, 59 seconds East, 214.70 feet more or less to a point,
7) South 00 degrees, 55 minutes, 36 seconds West, 201.17 feet more or less to a point,
8) North 89 degrees, 32 minutes, 52 seconds East, 158.00 feet more or less to a point,
9) South 89 degrees, 27 minutes, 07 seconds East, 17.00 feet more or less to a point,
10) South 00 degrees, 27 minutes, 07 seconds East, 590.00 feet more or less to a point,
11) North 87 degrees, 35 minutes, 03 seconds East, 175.10 feet more or less to the approximate centerline of Herring Branch,
12) South 22 degrees, 29 minutes, 10 seconds West, 89.48 feet more or less along the approximate centerline of Herring Branch

Thence along the approximate centerline of Herring Branch and portion of TM 130-6.00-92.00

- 1) South 33 degrees, 17 minutes, 23 seconds West, 1,030.21 feet more or less, as a tie line along the approximate centerline of Herring Branch, to a point,
- 2) North 84 degrees, 14 minutes, 30 seconds West, 1,608.30 feet more or less to a point,
- 3) North 05 degrees, 30 minutes, 30 seconds East, 704.56 feet more or less to a point,
- 4) South 84 degrees, 14 minutes, 30 seconds East, 184.00 feet more or less to a point,
- 5) North 05 degrees, 30 minutes, 30 seconds East, 209.00 feet more or less to a point,

Thence along a portion of TM 130-6.00-94.00

- 1) North 84 degrees, 14 minutes, 30 seconds West, 184.07 feet more or less to a point
- 2) North 05 degrees, 46 minutes, 30 seconds East, 879.30 feet more or less to a point,
- 3) South 84 degrees, 18 minutes, 10 seconds East, 285.08 feet more or less to a point,
- 4) North 05 degrees 41 minutes 44 seconds East, 155.60 feet more or less to a point,
- 5) North 84 degrees, 31 minutes, 00 seconds West, 96.94 feet more or less to a point,
- 6) North 85 degrees, 53 minutes, 38 seconds West, 192.40 feet more or less to a point,
- 7) A curve to the left said curve having an Arc Distance of 125.74 feet more or less, Radius of 1,586.60 feet more or less, Delta 04 degrees, 32 minutes, 27 seconds, Chord Direction of North 00 degrees, 45 minutes, 36 seconds West, 125.71 feet more or less to a point,
- 8) North 03 degrees, 01 minutes, 50 seconds West, 741.49 feet more or less to a point,

Thence along a portion of TM 130-6.00-95.00

- 1) **North 13 degrees, 45 minutes, 56 seconds West, 100.00 feet more or less to a point**

Thence along a portion of TM 130-6.00-96.00

- 1) **North 12 degrees, 36 minutes, 07 seconds West, 467.75 feet more or less to a point,**

Thence along a portion of TM 130-6.00-97.00

- 1) **North 13 degrees, 46 minutes, 12 seconds West, 208.75 feet more or less, to point,**

Said point being a tie line combining these parcels on the East side of Calhoun Road to the parcels located on the West side of Calhoun Road; thence crossing Calhoun Road **South 78 degrees, 03 minutes, 50 seconds West, 30.04 feet more or less to a point;** said point being at or near the approximate centerline of the beginning of Bowman Branch;

Thence along a portion of TM 130-6.00-75.00

- 1) **South 12 degrees, 50 minutes, 51 seconds East, 690.87 feet more or less to a point,**
- 2) **With a curve to the right, said curve having a Radius of 1000.00 feet more or less, an Arc Distance of 76.85 feet more or less, Delta of 4 degrees, 24 minutes, 11 seconds with a Chord Direction of North 10 degrees, 24 minutes, 01 seconds West, 76.83 feet to a point,**

Thence along a portion of TM 130-6.00-76.00

- 1) **With a curve to the right, said curve having a Radius of 1000.00 feet more or less, an Arc Distance of 101.69 feet more or less, Delta 05 degrees, 49 minutes, 36 seconds and Chord Direction of South 05 degrees, 17 minutes, 07 seconds East, 122.58 feet more or less to a point,**

- 2) South 02 degrees, 22 minutes, 19 seconds East, 523.45 feet more or less to a point,
- 3) With a curve to the right, said curve having a Radius of 3400.00 feet more or less, Arc Distance of 476.78 feet more or less, Delta of 8 degrees, 02 minutes, 05 seconds, a Cord Distance of South 01 degrees, 38 minutes, 34 seconds West, 476.39 feet more or less to a point,
- 4) South 05 degrees, 39 minutes, 45 seconds West, 343.34 feet more or less to a point,
- 5) North 84 degrees, 09 minutes, 41 seconds West, 425.77 feet more or less to a point,
- 6) South 05 degrees, 49 minutes, 21 seconds West, 443.91 feet more or less to a point,
- 7) North 65 degrees, 25 minutes, 05 seconds West, 823.85 feet more or less to a point,
- 8) North 22 degrees, 30 minutes, 20 seconds East, 612.70 feet more or less to a point,
- 9) North 16 degrees, 22 minutes, 57 seconds East, 577.93 feet more or less to a point,
- 10) North 36 degrees, 20 minutes, 50 seconds West, 192.99 feet more or less to a point,

Thence along a portion of TM 130-6.00-75.00

- 1) North 36 degrees, 36 minutes, 50 seconds West, 920.64 feet more or less to the approximate centerline of Bowman Branch,

Thence meandering along the approximate centerline of Bowman Branch and then leaving Bowman Branch while remaining along a portion of TM 130-3.00-247.02

- 1) North 38 degrees, 06 minutes, 57 seconds West, 742.86 feet more or less,

Thence meandering approximately parallel to Bowman Branch and along a portion TM 130-3.00-247.00

- 1) North 38 degrees, 08 minutes, 18 seconds West, 220.33 feet more or less to a point,
- 2) North 22 degrees, 30 minutes, 48 seconds West, 33.76 feet more or less to a point,
- 3) North 07 degrees, 19 minutes, 03 seconds West, 16.92 feet more or less to a point,
- 4) North 12 degrees, 35 minutes, 12 seconds East, 110.87 feet more or less to a point,
- 5) North 14 degrees, 07 minutes, 16 seconds East, 182.70 feet more or less to the approximate centerline of Bowman Branch,

Thence along the approximate centerline of Bowman Branch and portion of TM 130-3.00-246.00

- 1) North 11 degrees, 05 minutes, 46 seconds East, 439.22 feet more or less, as a tie line along the approximate centerline of Bowman Branch, to a point,

Thence along a portion of TM 130-3.00-246.00

- 1) North 64 degrees, 08 minutes, 43 seconds East, 1,243.23 feet more or less to a point,
- 2) South 25 degrees, 51 minutes, 17 seconds East, 351.00 feet more or less to a point,

Thence along a portion of TM 130-3.00-247.00

- 1) South 64 degrees, 08 minutes, 43 seconds, West, 10.54 feet more or less to a point,
- 2) South 24 degrees, 34 minutes, 48 seconds East, 590.95 feet more or less to a point,
- 3) South 82 degrees, 14 minutes, 53 seconds West, 345.00 feet more or less to a point,
- 4) South 07 degrees, 49 minutes, 38 seconds East, 192.68 feet more or less to a point,
- 5) North 80 degrees, 51 minutes, 06 seconds East, 395.00 feet more or less to a point,

- 6) **A curve to the right, said curve having an Arc Distance of 71.44 feet more or less, Radius of 865.14 feet more or less, Delta 04 degrees, 43 minutes, 53 seconds, Chord Direction of South 15 degrees, 55 minutes, 54 seconds East, 71.41 feet more or less to a point,**
- 7) **South 12 degrees, 53 minutes, 13 seconds East, 109.40 feet more or less to a point,**

Thence along a portion of TM 130-3.00-247.02

- 1) **North 80 degrees, 25 minutes, 12 seconds East, 10.19 feet more or less to a point,**
- 2) **South 12 degrees, 51 minutes, 19 seconds East, 646.81 feet more or less to a point,**

Said point being at or near the approximate centerline of the beginning of Bowman Branch and said point being a tie line combining these parcels on the West side of Calhoun Road to the parcels located on the East side of Calhoun Road; thence crossing Calhoun Road **North 78 degrees, 03 minutes, 50 seconds East, 30.04 feet more or less to a point,**

Thence along a portion of TM 130-3.00-247.00

- 1) **North 12 degrees, 07 minutes, 50 seconds West, 757.08 feet more or less to a point,**
- 2) **North 78 degrees, 03 minutes, 04 seconds East, 243.00 feet more or less to a point,**
- 3) **North 22 degrees, 09 minutes, 38 seconds West, 167.31 feet more or less to a point,**
- 4) **South 80 degrees, 21 minutes, 24 seconds West, 232.22 feet more or less to a point,**
- 5) **With a curve to the left having an Arc Distance of 29.31 feet more or less, Radius of 906.47 feet more or less, Delta of 01 degrees, 51 minutes, 10 seconds, Chord Direction of North 24 degrees, 32 minutes, 49 seconds West, 29.31 feet more or less to a point,**
- 6) **North 25 degrees, 51 minutes, 17 seconds West, 2,240.91 feet more or less to a point,**



June 30, 2021



Page 8

Freeman Solar, LLC – Calhoun Properties

Particular Description for Conditional Use Application

7) North 51 degrees, 51 minutes, 45 seconds East, 949.40 feet more or less to a point,

said point being the **POINT OF BEGINNING** for this description.

Said property shown on a plat prepared by Pennoni Associates Inc. and entitled "Conditional Use Site Plan" dated 06/30/2021 containing 350.96 acres of land more or less.



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
800 BAY ROAD
P.O. BOX 778
DOVER, DELAWARE 19903

NICOLE MAJESKI
SECRETARY

April 15, 2021

Mr. Jamie Whitehouse, Director
Sussex County Planning & Zoning
P.O. Box 417
Georgetown, DE 19947

Dear Mr. Whitehouse:

The Department has completed its review of a Service Level Evaluation Request for the **Mr. David M. Herskovits, VP – Asset Development, Brookfield Renewable, U. S.** proposed land use application, which we received on April 12, 2021. This application is for an approximately 347.62-acre assemblage of parcels (Tax Parcels: 130-3.00-246.00, 130-3.00-247.00, 130-3.00-247.02, 130-6.00-75.00, 130-6.00-76.00, 130-6.00-97.00, 130-6.00-96.00, 130-6.00-95.00, 130-6.00-94.00, 130-6.00-92.00). The parcels are located on the east and west sides of Calhoun Road from Shawnee Road to Isdell Drive. Tax Parcel 130-3.00-247.00 is located on the south east corner of Shawnee Road and Calhoun Road. Tax Parcel 130-6.00-94.00 has frontage on Dupont Boulevard. The subject lands are currently zoned GR (General Residential), MR (Medium-Density Residential), AR-1 (Agriculture Residential), and the applicant seeks a conditional use approval for a Solar Farm.

Per the 2019 Delaware Vehicle Volume Summary, the annual average daily traffic volume along Calhoun Road (Sussex Road 621), is 812 vehicles per day. The annual average daily traffic volume along Shawnee Road (Sussex Road 36) from Dupont Boulevard (US 113) to North Union Church Road (Sussex Road 42), is 3,719 vehicles per day. The annual average daily traffic volume along Dupont Boulevard (US 113) from Lakeview Road (Sussex Road 36) to Fitzgeralds Road, is 7,468 vehicles per day.

Based on our review, we estimate that the above land use will generate fewer than 50 vehicle trips per day. This number of trips is below DelDOT's minimum warrants for determining that a Traffic Impact Study (TIS) should be required for a particular development. DelDOT's regulations specify the minimum TIS warrants as 50 vehicle trips in any hour and/or 500 vehicle trips per day. Because the proposed land use would generate fewer than 50 vehicle trips per day, we consider the development's traffic impact to be **diminutive** in the context of our agreement with the County regarding land development coordination and we do not recommend that the applicant be required to perform a TIS for the subject application. DelDOT's description of this



Mr. Jamie Whitehouse
Page 2 of 2
April 15, 2021

application as diminutive with regard to warranting a TIS does not mean that it is diminutive in other respects. We recommend that the applicant not be required to perform a TIS for the subject application.

If the County approves this application, the applicant should be reminded that DelDOT requires compliance with State regulations regarding plan approvals and entrance permits, whether or not a TIS is required.

Please contact Ms. Annamaria Furmato, at (302) 760-2710, if you have questions concerning this correspondence.

Sincerely,



T. William Brockenbrough, Jr.
County Coordinator
Development Coordination

TWB:afm

cc: David M. Herskovits, Brookfield Renewable, U. S., Applicant
Mark H. Davidson, Pennoni Associates, Inc.
Russell Warrington, Sussex County Planning & Zoning
Constance C. Holland, Coordinator, Cabinet Committee on State Planning Issues
Todd Sammons, Assistant Director, Development Coordination
Scott Rust, South District Public Works Manager, Maintenance & Operations
Steve McCabe, Sussex County Review Coordinator, Development Coordination
Derek Sapp, Subdivision Manager, Development Coordination
Kevin Hickman, Subdivision Manager, Development Coordination
Brian Yates, Subdivision Manager, Development Coordination
John Andrescavage, Subdivision Manager, Development Coordination
James Argo, South District Project Reviewer, Maintenance & Operations
Troy Brestel, Project Engineer, Development Coordination
Claudy Joinville, Project Engineer, Development Coordination
Annamaria Furmato, Project Engineer, Development Coordination

**SUSSEX COUNTY ENGINEERING DEPARTMENT
UTILITY PLANNING & DESIGN REVIEW DIVISION
C/U & C/Z COMMENTS**

TO: **Jamie Whitehouse**

REVIEWER: **Chris Calio**

DATE: **4/25/2022**

APPLICATION: **CU 2298 Freeman Solar, LLC**

APPLICANT: **Freeman Solar, LLC c/o John Soininen**

FILE NO: **WSPA-5.02**

TAX MAP &
PARCEL(S): **130-3.00-246.00, 247.00 & 247.02 and 130-6.00-75.00, 76.00,
92.00, 94.00, 95.00, 96.00 & 97.00**

LOCATION: **Lying on the east and west side of Calhoun Road (SCR 621)
and South Shawnee Road (Route 36), approximately 1,267 feet
south of Shawnee Road (Route 36).**

NO. OF UNITS: **Solar Farm (75 megawatt A/C photovoltaic electric generation
facility**

GROSS
ACREAGE: **350.96**

SYSTEM DESIGN ASSUMPTION, MAXIMUM NO. OF UNITS/ACRE: **2**

SEWER:

(1). Is the project in a County operated and maintained sanitary sewer and/or water district?

Yes

No

a. If yes, see question (2).

b. If no, see question (7).

(2). Which County Tier Area is project in? **Tier 3**

(3). Is wastewater capacity available for the project? **N/A** If not, what capacity is available? **N/A**.

(4). Is a Construction Agreement required? **No** If yes, contact Utility Engineering at (302) 855-7717.

(5). Are there any System Connection Charge (SCC) credits for the project? **No** If yes, how many? **N/A**. Is it likely that additional SCCs will be required? **N/A**

If yes, the current System Connection Charge Rate is **Unified \$6,600.00** per EDU. Please contact **N/A** at **302-855-7719** for additional information on charges.

(6). Is the project capable of being annexed into a Sussex County sanitary sewer district? **N/A**

Attached is a copy of the Policy for Extending District Boundaries in a Sussex County Water and/or Sanitary Sewer District.

(7). Is project adjacent to the Unified Sewer District? **N/A**

(8). Comments: **The proposed Conditional Use is also within the boundaries of the Growth and Annexation area of the City of Milford. Contact the City concerning the availability of sewer and/or water.**

(9). Is a Sewer System Concept Evaluation required? **Not at this time**

(10). Is a Use of Existing Infrastructure Agreement Required? **Not at this time**

(11). **All residential roads must meet or exceed Sussex County minimum design standards.**

UTILITY PLANNING & DESIGN REVIEW APPROVAL:



John J. Ashman
Sr. Manager of Utility Planning & Design Review

Xc: Hans M. Medlarz, P.E.
Lisa Walls
No Permit Tech Assigned

SITE DATA:

- TAX MAP NUMBER: 130-3.00 PARCELS 247.00, 246.00 & 247.02
130-6.00 PARCELS 75.00, 76.00, 92.00, 94.00, 95.00, 96.00, & 97.00
- OWNERS: 130-3.00 PARCELS 247.00 & 246.00
CALHOUN CLARENCE JR.
7237 CALHOUN ROAD
MILFORD, DE 19963
130-6.00 PARCELS 75.00, 76.00, 92.00, 94.00, 95.00, 96.00, 97.00 & 130-3.00-247.02
CALHOUN VENTURES LLC
6714 DUPONT BLVD
MILFORD, DE 19963
- DEVELOPER NAME: FREEMAN SOLAR, LLC
200 LIBERTY STREET, 14TH FLOOR
NEW YORK, NEW YORK 10281
- TOWN/HUNDRED/COUNTY: MILFORD / CEDAR CREEK HUNDRED / SUSSEX
- CURRENT ZONING: AR-1 (AGRICULTURAL RESIDENTIAL DISTRICT)
GR (GENERAL RESIDENTIAL DISTRICT)
MR (MEDIUM RESIDENTIAL DISTRICT)
PROPOSED ZONING: AR-1 (AGRICULTURAL RESIDENTIAL DISTRICT)
GR (GENERAL RESIDENTIAL DISTRICT)
MR (MEDIUM RESIDENTIAL DISTRICT)
- PRESENT USE: AGRICULTURAL
- PROPOSED USE: SOLAR FARM
- REQUIRED SETBACKS (B.R.L.):
AR-1 (115-25 C.)
DEPTH OF FRONT YARD (FEET) 47
WIDTH OF SIDE YARD (FEET) 15
DEPTH OF REAR YARD (FEET) 20
MINIMUM LOT WIDTH 100
GR (115-42 B.)
DEPTH OF FRONT YARD (FEET) 47
WIDTH OF SIDE YARD (FEET) 10
DEPTH OF REAR YARD (FEET) 10
MINIMUM LOT WIDTH 75
MR (115-33 C.)
DEPTH OF FRONT YARD (FEET) 47
WIDTH OF SIDE YARD (FEET) 10
DEPTH OF REAR YARD (FEET) 10
MINIMUM LOT WIDTH 75
- WATER SUPPLIER: PRIVATE - INDIVIDUAL ON-SITE WELLS (DNREC) WATER IS SUBJECT TO THE APPROVAL OF THE DELAWARE STATE DEPARTMENTS OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL AND THE DELAWARE DIVISION OF PUBLIC HEALTH
- SECTION 89 - SOURCE WATER PROPERTY:
A. SUBJECT PROPERTY IS WITHIN AN AREA OF "FAIR" GROUNDWATER RECHARGE.
B. SUBJECT PROPERTY IS NOT LOCATED IN A WELL-HEAD PROTECTION AREA.
- SANITARY SEWER PROVIDER: PRIVATE - INDIVIDUAL ON-SITE WASTEWATER DISPOSAL SYSTEM (DNREC)
- POSTED SPEED LIMIT (CALHOUN RD): 50 MPH
- STATE INVESTMENT AREA: LEVELS 2, 3, AND 4
- FIRE DISTRICT: CARLISLE FIRE CO. (STATION 42)
- MAXIMUM BUILDING HEIGHT (115-25 D): 42 FEET MAX.
- TAX MAP AREA:
130-3.00-246.00: 11.00 ± A.C.
130-3.00-247.00: 118.04 ± A.C.
130-3.00-247.02: 22.42 ± A.C.
130-6.00-75.00: 21.59 ± A.C.
130-6.00-76.00: 37.50 ± A.C.
130-6.00-92.00: 38.30 ± A.C.
130-6.00-94.00: 79.41 ± A.C.
130-6.00-95.00: 0.55 ± A.C.
130-6.00-96.00: 2.57 ± A.C.
130-6.00-97.00: 20.67 ± A.C.
- TOTAL AREA: 350.86 ± ACRES
- LONGITUDE AND LATITUDE:
STATE PLANE COORDINATES:
LONGITUDE: W 075.4449333°
LATITUDE: N 038.8785636°
- WATERSHED: UPPER AND MIDDLE MISPELLION RIVER
- FLOOD ZONE: ZONE X FIRM NUMBER 1000500039J, DATED JANUARY 6, 2005
ZONE X FIRM NUMBER 1000500130K, DATED MARCH 16, 2015
- WETLANDS AREA: 4.54 ± ACRES (STANTEC DELINEATION)
- TOPOGRAPHY: NAD 83, V NAVD 88 DATUM
- DATUM: HORIZONTAL = NAD83, VERTICAL = NAVD88
- LOCAL GOVERNMENT RESPONSIBLE FOR LAND USE APPROVAL: SUSSEX COUNTY

FREEMAN SOLAR GROUND MOUNT PHOTOVOLTAIC GENERATING FACILITY

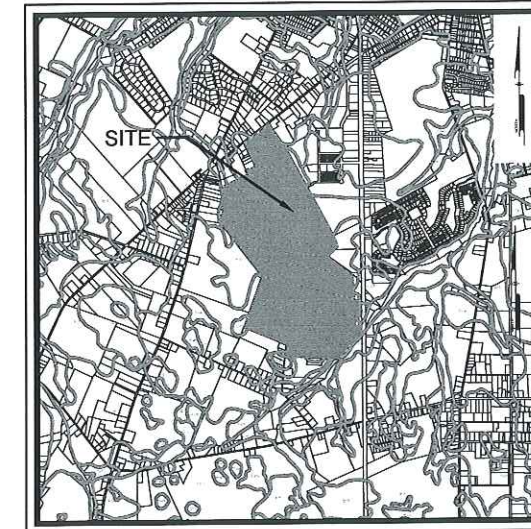
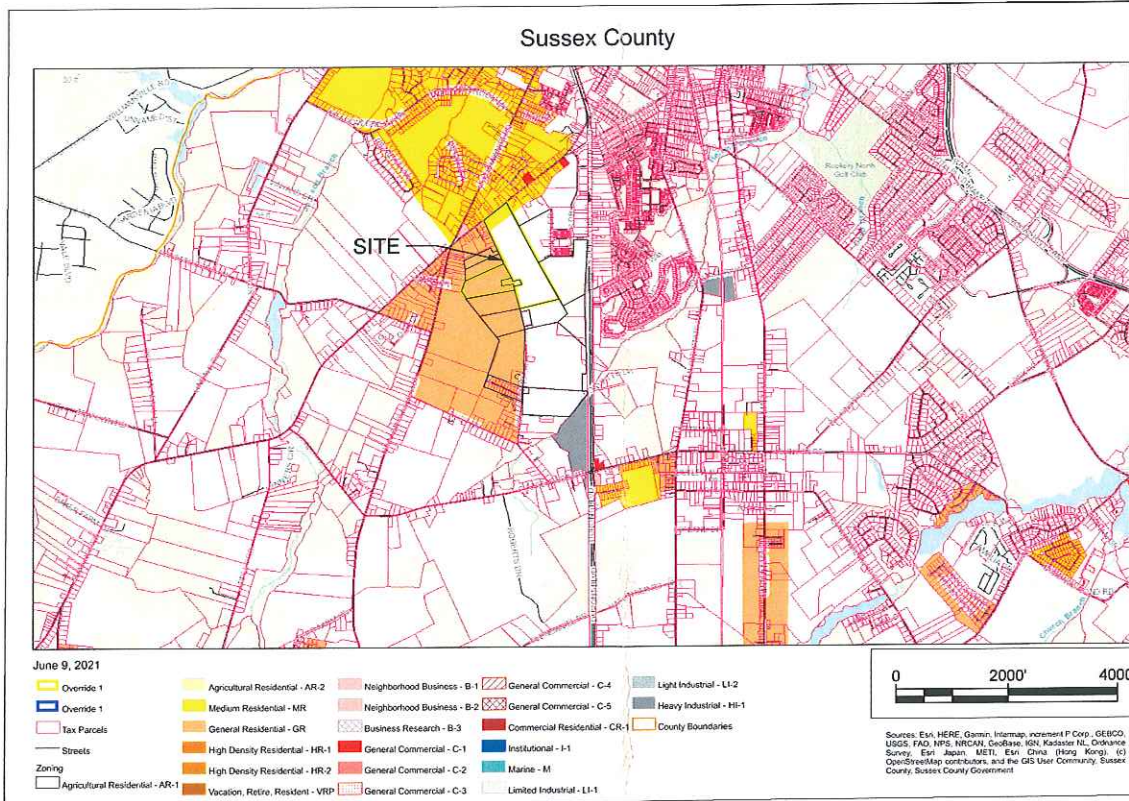
CONDITIONAL USE SITE PLAN

CEDAR CREEK HUNDRED, SUSSEX COUNTY, DE

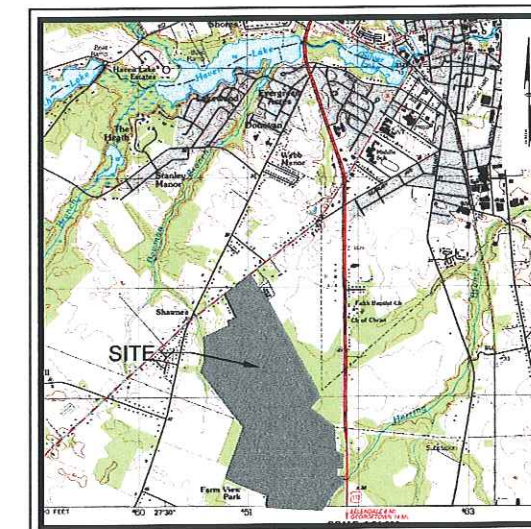
PREPARED FOR:
FREEMAN SOLAR, LLC
BROOKFIELD RENWEABLE, US
200 LIBERTY STREET, 14TH FLOOR
NEW YORK, NEW YORK 10281
(646) 992-2400

LEGEND

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	BUILDING
[Symbol]	[Symbol]	CURB
[Symbol]	[Symbol]	EDGE OF PAVEMENT
[Symbol]	[Symbol]	EDGE OF GRAVEL
[Symbol]	[Symbol]	UTILITY EASEMENT
[Symbol]	[Symbol]	PERMANENT EASEMENT
[Symbol]	[Symbol]	FENCE
[Symbol]	[Symbol]	POWER, UTILITY POLE
[Symbol]	[Symbol]	PROPERTY, LINE
[Symbol]	[Symbol]	LEGAL RIGHT-OF-WAY
[Symbol]	[Symbol]	PROPERTY CORNER FOUND
[Symbol]	[Symbol]	PROPERTY ADJOINING LINED
[Symbol]	[Symbol]	SITE, MAIL BOX
[Symbol]	[Symbol]	SITE, TRAFFIC SIGV
[Symbol]	[Symbol]	VEGETATED SWALE
[Symbol]	[Symbol]	SOIL LABEL
[Symbol]	[Symbol]	WELL
[Symbol]	[Symbol]	SOIL BORING
[Symbol]	[Symbol]	SPOT ELEVATION
[Symbol]	[Symbol]	MARKING, HANDICAP PARKING
[Symbol]	[Symbol]	LIGHT POLE
[Symbol]	[Symbol]	EXISTING COVER TREE
[Symbol]	[Symbol]	EXISTING OAK TREE
[Symbol]	[Symbol]	100Yr FLOOD PLAN
[Symbol]	[Symbol]	CLEAR ZONE LINE
[Symbol]	[Symbol]	UNDERGROUND COMMUNICATIONS LINE
[Symbol]	[Symbol]	POWER UNDERGROUND
[Symbol]	[Symbol]	POWER OVERHEAD
[Symbol]	[Symbol]	CONTOUR, MINOR
[Symbol]	[Symbol]	CONTOUR, MAJOR



SOILS MAP
Scale: 1" = 1000'



USGS MAP
Scale: 1" = 1000'

SOILS		
TYPE	DESCRIPTION	HYDROLOGIC SOIL
W4dA	WOODSTOWN SANDY LOAM, 0 TO 2 PERCENT SLOPES, NORTHERN TIDEWATER AREA	C
LO	LONGMARSH AND INDIANTOWN SOILS, FREQUENTLY FLOODED	B/D
F4dA	FALLSINGTON SANDY LOAMS, 0 TO 2 PERCENT SLOPES, NORTHERN TIDEWATER AREA	B/D
D4a	DOWNER LOAMY SAND, 0 TO 2 PERCENT SLOPES	A
S4dA	SASSAFRAS SANDY LOAM, 0 TO 2 PERCENT SLOPES, NORTHERN TIDEWATER AREA	B
I4a	INGLESIDE LOAMY SAND, 0 TO 2 PERCENT SLOPES	A
F4a	FORT MOTT LOAMY SAND, 0 TO 2 PERCENT SLOPES	A
F4b	FORT MOTT LOAMY SAND, 2 TO 5 PERCENT SLOPES	A
H4a	HAMBROOK SANDY LOAM, 0 TO 2 PERCENT SLOPES	B
R4a	ROSEDALE LOAMY SAND, 0 TO 2 PERCENT SLOPES	A

Sheet List Table		
Sheet Number	Drawing Number	Sheet Title
1	CS0001	COVER SHEET
2	CS1000	KEY SHEET
3	CS1001	CONDITIONAL USE SITE PLAN
4	CS1002	CONDITIONAL USE SITE PLAN
5	CS1003	CONDITIONAL USE SITE PLAN
6	CS1004	CONDITIONAL USE SITE PLAN

PREPARED BY:
PENNONI ASSOCIATES INC.



18072 Davidson Drive
Milton, DE 19968
T 302.684.8030
F 302.684.8054

NOT FOR CONSTRUCTION

CALL BEFORE YOU DIG
Call Miss Utility of Delmarva
800-282-8555
Ticket Number(s):

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
DISCREPANCIES MUST BE NOTIFIED OF ANY
DISCREPANCIES BEFORE PROCEEDING WITH WORK

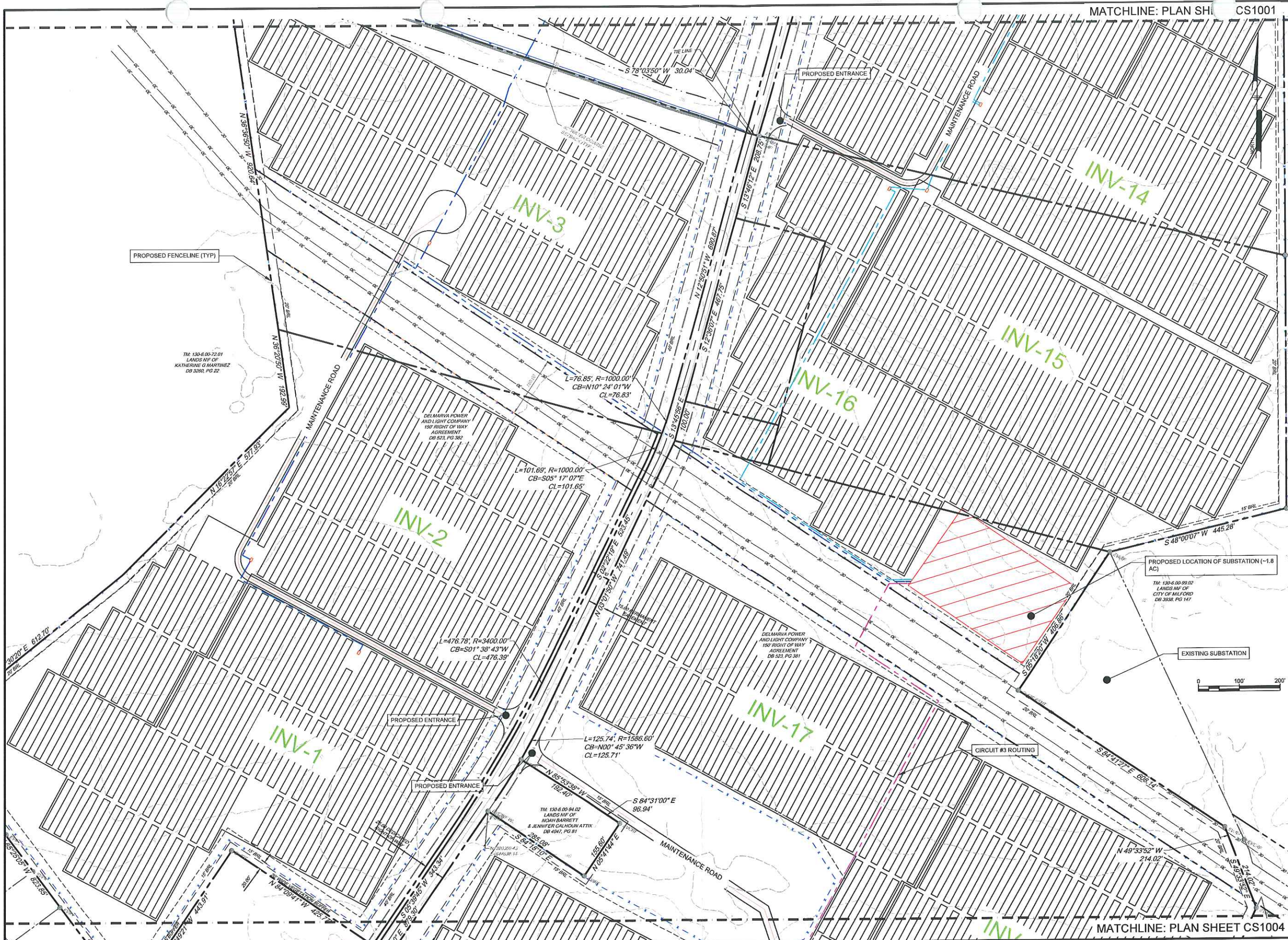
FREEMAN SOLAR GROUND MOUNT
PHOTOVOLTAIC GENERATING FACILITY
COVER SHEET

CEDAR CREEK HUNDRED
MILFORD, DE 19963
FREEMAN SOLAR, LLC
BROOKFIELD RENWEABLE, US
200 LIBERTY STREET, 14TH FLOOR
NEW YORK, NEW YORK 10281

NO.	DATE	REVISIONS	BY

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES
ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE
PROJECT. THEY ARE NOT INTENDED OR REPRESENTED
TO BE SUITABLE FOR REUSE BY OTHERS OR OTHERS
ON THE EXTENSION OF THE PROJECT OR ON ANY OTHER
PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION
OR ADAPTATION BY PENNONI ASSOCIATES FOR THE
SPECIFIC PURPOSES INTENDED WILL BE AT OWNER'S
SOLE RISK AND WITHOUT LIABILITY OR LEGAL
EXPOSURE TO PENNONI ASSOCIATE, AND OWNER SHALL
INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES
FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES
ARISING OUT OF OR RESULTING THEREFROM.

PROJECT	BRKRE21001
DATE	2021-06-09
DRAWING SCALE	AS SHOWN
DRAWN BY	LYJ
APPROVED BY	AMD
CS0001	
SHEET	1 OF 6



MATCHLINE: PLAN SHEET CS1001

MATCHLINE: PLAN SHEET CS1004

Pennoni
 PENNONI ASSOCIATES INC.
 16772 Dandridge Drive
 Milford, DE 19968
 T 302.684.8030 F 302.684.8054

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
 DISCREPANCIES MUST BE NOTICED OF ANY
 DISCREPANCIES BEFORE PROCEEDING WITH WORK

**FREEMAN SOLAR GROUND MOUNT
 PHOTOVOLTAIC GENERATING FACILITY**
 CEDAR CREEK HUNDRED
 MILFORD, DE 19963
CONDITIONAL USE SITE PLAN
 FREEMAN SOLAR, LLC
 BROOKFIELD RENWABLE, US
 200 LIBERTY STREET, 14TH FLOOR
 NEW YORK, NEW YORK 10281

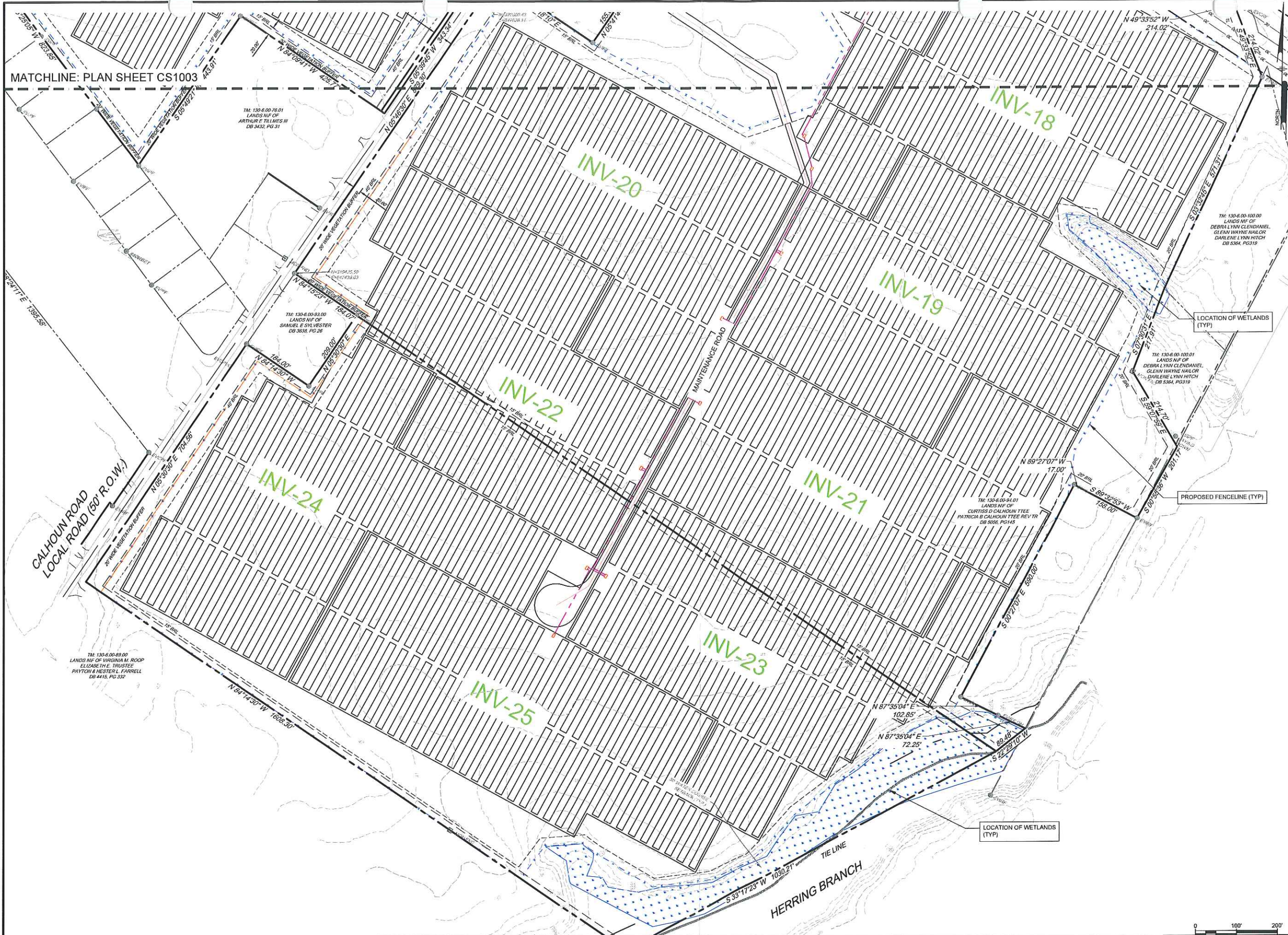
NO.	DATE	REVISIONS	BY

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 THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER
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 OR ADAPTATION BY PENNONI ASSOCIATES FOR THE
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 SOLE RISK AND WITHOUT LIABILITY OR LEGAL
 EXPOSURE TO PENNONI ASSOCIATES, AND OWNER
 SHALL INDEMNIFY AND HOLD HARMLESS PENNONI
 ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND
 EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT: BRKRE21001
 DATE: 2021-06-09
 DRAWING SCALE: 1"=100'
 DRAWN BY: LYJ
 APPROVED BY: AMD

CS1003
 SHEET 5 OF 6

U:\Mountains\BRKRE21001 - Freeman Solar Ground Mount\Drawings\Site\CS1003.dwg
 PLOTTED: 7/13/21 1:53 PM, PLOT: Lane Johnson
 PLOT TITLE: Pennoni\NCSLab
 PROJECT STATUS:



MATCHLINE: PLAN SHEET CS1003



PENNONI ASSOCIATES INC.
 1877 DAVENPORT DRIVE
 MILFORD, DE 19968
 T 302.684.3030 F 302.684.8054

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
 BEFORE PROCEEDING WITH WORK. DISCREPANCIES MUST BE REPORTED TO THE ENGINEER IMMEDIATELY.

**FREEMAN SOLAR GROUND MOUNT
 PHOTOVOLTAIC GENERATING FACILITY**

CONDITIONAL USE SITE PLAN
 CEDAR CREEK HUNDRED
 MILFORD, DE 19963
FREEMAN SOLAR, LLC
 BROOKFIELD RENWEABLE, US
 200 LIBERTY STREET, 14TH FLOOR
 NEW YORK, NEW YORK 10281

NO.	DATE	REVISIONS	BY

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PROJECT: BRKRE21001
 DATE: 2021-06-09
 DRAWING SCALE: 1"=100'
 DRAWN BY: LYJ
 APPROVED BY: AMD

CS1004
 SHEET 6 OF 6

SHEET CS1001

SHEET CS1004



PENNONI ASSOCIATES INC.
1872 Delaware Drive
Milford, DE 19968
T 302.684.0030 F 302.684.8054

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**FREEMAN SOLAR GROUND MOUNT
PHOTOVOLTAIC GENERATING FACILITY**
CEDAR CREEK HUNDRED
MILFORD, DE 19963

KEY SHEET
FREEMAN SOLAR, LLC
BROOKFIELD RENWAEABLE, US
200 LIBERTY STREET, 14TH FLOOR
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PROJECT: BRKRE21001
DATE: 2021-06-09
DRAWING SCALE: 1"=300'
DRAWN BY: LYJ
APPROVED BY: AMD

CS1000
SHEET 2 OF 6

SHAWNEE ROAD (SR36)
MAJOR COLLECTOR (60' R.O.W.)

CALHOUN ROAD
LOCAL ROAD (50' R.O.W.)

US 113-DUPONT BOULEVARD
(SC-113-F)
OTHER PRINCIPAL ARTERIALS

HERRING BRANCH

BOWMAN BRANCH

CALHOUN ROAD
LOCAL ROAD (50' R.O.W.)

MATCHLINE: PLAN SHEET CS1001
MATCHLINE: PLAN SHEET CS1003

MATCHLINE: PLAN SHEET CS1001
MATCHLINE: PLAN SHEET CS1002

MATCHLINE: PLAN SHEET CS1003
MATCHLINE: PLAN SHEET CS1004

SHEET CS1002

SHEET CS1003



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**FREEMAN SOLAR GROUND MOUNT
 PHOTOVOLTAIC GENERATING FACILITY**
 CEDAR CREEK HUNDRED
 WILFORD, DE 19953
CONDITIONAL USE SITE PLAN
FREEMAN SOLAR, LLC
 BROOKFIELD RENNWAELE, US
 200 LIBERTY STREET, 14TH FLOOR
 NEW YORK, NEW YORK 10281

NO.	DATE	REVISIONS	BY

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PROJECT	BRKRE21001
DATE	2021-06-09
DRAWING SCALE	1"=100'
DRAWN BY	LYJ
APPROVED BY	AMD
CS1001	
SHEET	3 OF 6



MATCHLINE: PLAN SHEET CS1002

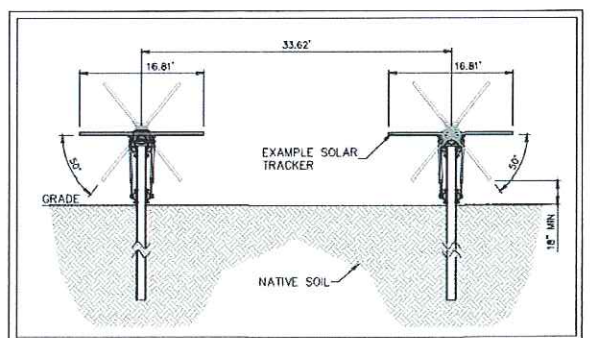
MATCHLINE: PLAN SHEET CS1003

PV System Power Summary

Inverter No.	Inverter AC Rating (MW)	PV Module Rating (W)	Qty of Modules	Qty of Strings	DC Power (MW)	DC/AC Ratio
1	3.000	660	6600	220	4.356	1.45
2	3.000	660	6630	221	4.376	1.46
3	3.000	660	6000	200	3.960	1.32
4	3.000	660	5870	194	3.841	1.28
5	3.000	660	5820	194	3.841	1.28
6	3.000	660	5790	193	3.821	1.27
7	3.000	660	5850	195	3.891	1.29
8	3.000	660	5370	179	3.544	1.18
9	3.000	660	5400	180	3.564	1.19
10	3.000	660	5370	179	3.544	1.18
11	3.000	660	5400	180	3.564	1.19
12	3.000	660	5310	177	3.505	1.17
13	3.000	660	5370	179	3.544	1.18
14	3.000	660	5310	177	3.505	1.17
15	3.000	660	5490	183	3.623	1.21
16	3.000	660	5370	179	3.544	1.18
17	3.000	660	5340	178	3.524	1.17
18	3.000	660	5340	178	3.524	1.17
19	3.000	660	5340	178	3.524	1.17
20	3.000	660	5370	179	3.544	1.18
21	3.000	660	5280	176	3.485	1.16
22	3.000	660	5160	172	3.406	1.14
23	3.000	660	5310	177	3.505	1.17
24	3.000	660	5280	176	3.485	1.16
25	3.000	660	5280	176	3.485	1.16
Total			138,600	4,620	915	1.22

DETAIL - PV SYSTEM POWER SUMMARY
 NOT TO SCALE

1
 CS-1001



DETAIL - SAMPLE TRACKER DETAIL
 NOT TO SCALE

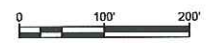
2
 CS-1001

SYSTEM PROPERTIES

PROPERTY	VALUE
AZIMUTH / AXIS TILT	50° E / 0°
TRACKER ROTATION LIMITS	±50°
RACKING	QTY 2-STRING - 201 / 1-STRING - 1406 33.62 PITCH
MODULES	QTY 138,600
MODULES-STRING	30
INVERTERS	3,000kW SMA SUNNY CENTRAL 3000-EV (QTY 25)
DC SIZE (MW)	915.00
AC SIZE (MW)	75.00
OVERBUILD RATIO (DC/AC)	1.22
GROUND COVERAGE RATIO (GCR)	50.00

DETAIL - SYSTEM PROPERTIES
 NOT TO SCALE

3
 CS-1001



U:\Users\pennoni\Documents\Projects\BRKRE21001\Freeman Solar\Facilities\CS1001_Plan\CS1001.dwg
 PLOT DATE: 7/20/21 12:59 PM BY: llyj
 PROJECT STATUS:

U:\Projects\BRKRE21001\Freeman Solar Foundation_SHEETCS1002.dwg PLOTTED: 11/20/21 12:50 PM BY: LISA J. WILSON PROJECT STATUS: —



Pennoni
PENNONI ASSOCIATES INC.
 18072 Davidson Drive
 Milton, DE 19968
 T 302.664.8030 F 302.664.8054

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
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**FREEMAN SOLAR GROUND MOUNT
 PHOTOVOLTAIC GENERATING FACILITY**
 CEDAR CREEK HUNDRED
 MILFORD, DE 19963
CONDITIONAL USE SITE PLAN
 FREEMAN SOLAR, LLC
 BROOKFIELD RENOVABLE, US
 200 LIBERTY STREET, 14TH FLOOR
 NEW YORK, NEW YORK 10281

NO.	DATE	REVISIONS	BY

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PROJECT	BRKRE21001
DATE	2021-06-09
DRAWING SCALE	1"=100'
DRAWN BY	LYJ
APPROVED BY	AMD

CS1002
 SHEET 4 OF 6

FREEMAN SOLAR LLC

CASE NO. CU 2298

OWNER:

CALHOUN VENTURES, LLC
6714 DUPONT BLVD.
MILFORD, DE 19963

CLARENCE D. CALHOUN, JR.
7237 CALHOUN ROAD
MILFORD DE 19963

DEVELOPER:

FREEMAN SOLAR LLC
200 LIBERTY ST. 14TH FLOOR
NEW YORK, NY 10281

LEGAL:

MORRIS JAMES LLP
107 W. MARKET STREET
GEORGETOWN, DE 19947
DAVID C. HUTT, ESQUIRE

PLANNER/ENGINEER/SURVEYOR:

PENNONI
18072 DAVIDSON DRIVE
MILTON, DE 19968

MARK H. DAVIDSON, PRINCIPAL LAND
PLANNER

ALAN DECKTOR, PE., ENV SP

ERIC WAHL, RLA

JOHN W. HAUPT, PLS

STANTEC
810 GLEN EAGLES COURT, SUITE 300
BALTIMORE MD 21286-2237

ELEANOR T. WILSON, PWS

ENVIRONMENTAL:

STANTEC

STANTEC CONSULTING SERVICES INC.

ACCENT ENVIRONMENTAL

WILLIAM J. GANGLOFF, PhD.
PROFESSIONAL
SOIL SCIENTIST

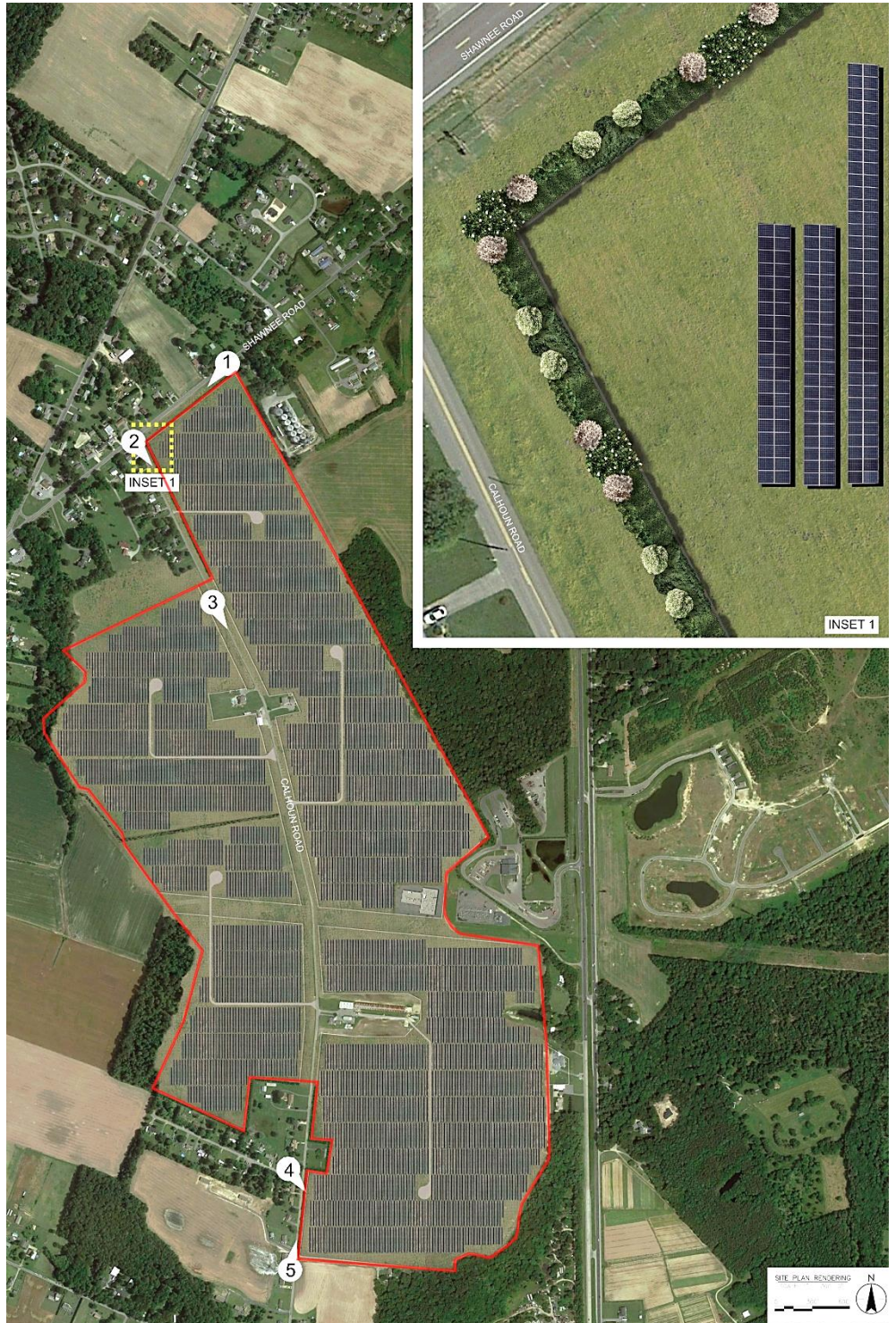


TABLE OF CONTENTS:

1.	APPLICATION	TAB 1
	a. APPLICATION CU 2298	
	b. CONDITIONAL USE SITE PLAN	
	c. METES AND BOUNDS	
	d. SFR RESPONSE LETTER	
2.	EXHIBITS	TAB 2
	a. CONCEPTUAL LAYOUT	
	b. ALTA SURVEY	
	c. WETLAND DELINEATION	
	d. SITE DEVELOPABLE AREA EXHIBIT	
	e. WETLANDS EXHIBIT	
3.	SOLAR ENERGY AND THE PJM	TAB 3
	a. INNOVATIVE RENEWABLE ENERGY SOLUTIONS AND THE PROJECT	
4.	ACOUSTIC REPORT	TAB 4
	a. FREEMAN SOLAR PRE CONSTRUCTION SOUND OPERATIONAL SOUND REPORT	
5.	IMPACT STUDY REPORT	TAB 5
	a. SITE SPECIFIC ANALYSIS REPORT (ADDENDUM)	
	b. SITE SPECIFIC ANALYSIS	
6.	MAPS	TAB 6
	a. 2017, 2012, 2007, 2002, 1997, 1992, 1968, 1961, 1954, 1937, ORTHOPHOTO MAPS, 2020 STATE STRATEGIES, SUSSEX COUNTY ZONING, SUSSEX COUNTY 2019 FLUM. CITY OF MILFORD ZONING, CITY OF MILFORD 2018 COMPREHENSIVE PLAN, STATE WETLANDS, FEMA FLOODPLAIN, 2020 LAND USE LAND COVER, NRCS SOILS, GROUND-WATER RECHARGE POTENTIAL, USGA TOPOGRAPHIC, AREA LAND USE APPLICATIONS MAPS	
7.	LANDSCAPE	TAB 7
	b. COLOR RENDERING	
	c. LANDSCAPE PLAN	
	d. LANDSCAPE PLAN ALT	

TAB 1

APPLICATION

Planning & Zoning Commission Application Sussex County, Delaware

Sussex County Planning & Zoning Department
2 The Circle (P.O. Box 417) Georgetown, DE 19947
302-855-7878 ph. 302-854-5079 fax

Type of Application: (please check applicable)

Conditional Use
Zoning Map Amendment

Site Address of Conditional Use/Zoning Map Amendment

Various parcels situated along Calhoun Road, Milford, Delaware 19963

Type of Conditional Use Requested:

Installation of a solar farm consisting of approximately 75 MW AC photovoltaic electric generation facility

130-3.00-246.00, 247.00 and 247.02

Tax Map #: 130-6.00-75.00, 76.00, 92.00, 94.00, 95.00, 96.00 & 97.00 **Size of Parcel(s):** 350.96 acres

Current Zoning: AR-1, GR & MR **Proposed Zoning:** AR-1, GR & MR Cond'l Use **Size of Building:** n/a

Land Use Classification: Developing Area/Low Density Area

Water Provider: On-site well **Sewer Provider:** On-site septic

Applicant Information

Applicant Name: Freeman Solar LLC
Applicant Address: 200 Liberty St., 14th Floor
City: New York **State:** NY **Zip Code:** 10281
Phone #: (617) 448-1318 **E-mail:** John.Soininen@brookfieldrenewable.com

Owner Information

Owner Name: Calhoun Ventures, LLC Clarence D. Calhoun, Jr.
Owner Address: 6714 DuPont Blvd. 7237 Calhoun Road
City: Milford **State:** DE **Zip Code:** 19963
Phone #: _____ **E-mail:** _____

Agent/Attorney/Engineer Information

Agent/Attorney/Engineer Name: David C. Hutt, Esquire | Morris James LLP
Agent/Attorney/Engineer Address: 107 W. Market St.; P.O. Box 690
City: Georgetown **State:** DE **Zip Code:** 19947
Phone #: (302) 856-0015 **E-mail:** dhutt@morrisjames.com



Check List for Sussex County Planning & Zoning Applications

The following shall be submitted with the application

- Completed Application**
- Provide eight (8) copies of the Site Plan or Survey of the property**
 - Survey shall show the location of existing or proposed building(s), building setbacks, parking area, proposed entrance location, etc.
 - Provide a PDF of Plans (may be e-mailed to a staff member)
 - Deed or Legal description
- Provide Fee \$500.00**
- Optional - Additional information for the Commission/Council to consider** (ex. architectural elevations, photos, exhibit books, etc.) If provided submit 8 copies and they shall be submitted a minimum of ten (10) days prior to the Planning Commission meeting.
- Please be aware that Public Notice will be sent to property owners within 200 feet of the subject site and County staff will come out to the subject site, take photos and place a sign on the site stating the date and time of the Public Hearings for the application.**
- DeIDOT Service Level Evaluation Request Response**
- PLUS Response Letter** (if required)

The undersigned hereby certifies that the forms, exhibits, and statements contained in any papers or plans submitted as a part of this application are true and correct.

I also certify that I or an agent on my behalf shall attend all public hearing before the Planning and Zoning Commission and the Sussex County Council and any other hearing necessary for this application and that I will answer any questions to the best of my ability to respond to the present and future needs, the health, safety, morals, convenience, order, prosperity, and general welfare of the inhabitants of Sussex County, Delaware.

Signature of Applicant/Agent/Attorney



Jason Spreyer

Date: July 1, 2021

Signature of Owner



David Herksovits (authorized by owners)

Date: July 1, 2021

For office use only:

Date Submitted: _____ Fee: \$500.00 Check #: _____
Staff accepting application: _____ Application & Case #: _____
Location of property: _____
Subdivision: _____
Date of PC Hearing: _____ Recommendation of PC Commission: _____
Date of CC Hearing: _____ Decision of CC: _____

SITE DATA:

- TAX MAP NUMBER: 130-3.00 PARCELS 247.00, 246.00 & 247.02
130-6.00 PARCELS 75.00, 76.00, 92.00, 94.00, 95.00, 96.00, & 97.00
- OWNERS: 130-3.00 PARCELS 247.00 & 246.00
CALHOUN CLARENCE D JR.
7237 CALHOUN ROAD
MILFORD, DE 19963
130-6.00 PARCELS 75.00, 76.00, 92.00, 94.00, 95.00, 96.00, 97.00 & 130-3.00-247.02
CALHOUN VENTURES LLC
6714 DUPONT BLVD
MILFORD, DE 19963
- DEVELOPER NAME: FREEMAN SOLAR, LLC
200 LIBERTY STREET, 14TH FLOOR
NEW YORK, NEW YORK 10281
- TOWN/HUNDRED/COUNTY: MILFORD / CEDAR CREEK HUNDRED / SUSSEX
- CURRENT ZONING: AR-1 (AGRICULTURAL RESIDENTIAL DISTRICT)
GR (GENERAL RESIDENTIAL DISTRICT)
MR (MEDIUM RESIDENTIAL DISTRICT)
PROPOSED ZONING: AR-1 (AGRICULTURAL RESIDENTIAL DISTRICT)
GR (GENERAL RESIDENTIAL DISTRICT)
MR (MEDIUM RESIDENTIAL DISTRICT)
- PRESENT USE: AGRICULTURAL
- PROPOSED USE: SOLAR FARM
- REQUIRED SETBACKS (B.R.L.):
AR-1 (115-25 C.)
DEPTH OF FRONT YARD (FEET) 40'
WIDTH OF SIDE YARD (FEET) 15'
DEPTH OF REAR YARD (FEET) 20'
MINIMUM LOT WIDTH 100'
GR (115-42 B.)
DEPTH OF FRONT YARD (FEET) 40'
WIDTH OF SIDE YARD (FEET) 10'
DEPTH OF REAR YARD (FEET) 10'
MINIMUM LOT WIDTH 75'
MR (115-33 C.)
DEPTH OF FRONT YARD (FEET) 40'
WIDTH OF SIDE YARD (FEET) 10'
DEPTH OF REAR YARD (FEET) 10'
MINIMUM LOT WIDTH 75'
- WATER SUPPLIER: PRIVATE - INDIVIDUAL ON-SITE WELLS (DNREC) WATER IS SUBJECT TO THE APPROVAL OF THE DELAWARE STATE DEPARTMENTS OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL AND THE DELAWARE DIVISION OF PUBLIC HEALTH
- SECTION 89 - SOURCE WATER PROPERTY:
A. SUBJECT PROPERTY IS WITHIN AN AREA OF "FAIR" GROUNDWATER RECHARGE.
B. SUBJECT PROPERTY IS NOT LOCATED IN A WELLHEAD PROTECTION AREA.
- SANITARY SEWER PROVIDER: PRIVATE - INDIVIDUAL ON-SITE WASTEWATER DISPOSAL SYSTEM (DNREC)
- POSTED SPEED LIMIT (CALHOUN RD): 50 MPH
- STATE INVESTMENT AREA: LEVELS 2, 3, AND 4
- FIRE DISTRICT: CARLISLE FIRE CO. (STATION 42)
- MAXIMUM BUILDING HEIGHT (115-25 D.): 42 FEET MAX.
- TAX MAP AREA:
130-3.00-246.00: 11.00 ± AC.
130-3.00-247.00: 116.04 ± AC.
130-3.00-247.02: 22.42 ± AC.
130-6.00-75.00: 21.50 ± AC.
130-6.00-76.00: 37.50 ± AC.
130-6.00-92.00: 39.30 ± AC.
130-6.00-94.00: 79.41 ± AC.
130-6.00-95.00: 0.55 ± AC.
130-6.00-96.00: 2.57 ± AC.
130-6.00-97.00: 20.87 ± AC.
- TOTAL AREA: 350.96 ± ACRES
- LONGITUDE AND LATITUDE:
STATE PLANE COORDINATES: LONGITUDE: W 075.4449339°
LATITUDE: N 038.8785636°
- WATERSHED: UPPER AND MIDDLE MISPELLION RIVER
- FLOOD ZONE: ZONE X FIRM NUMBER 10005C0039J, DATED JANUARY 6, 2005
ZONE X FIRM NUMBER 10005C0130K, DATED MARCH 16, 2015
- WETLANDS AREA: 4.54 ± ACRES (STANTEC DELINEATION)
- TOPOGRAPHY: HNAID 83; V.NAVD 88 DATUM.
- DATUM: HORIZONTAL = NAD83, VERTICAL = NAVD88
- LOCAL GOVERNMENT RESPONSIBLE FOR LAND USE APPROVAL: SUSSEX COUNTY

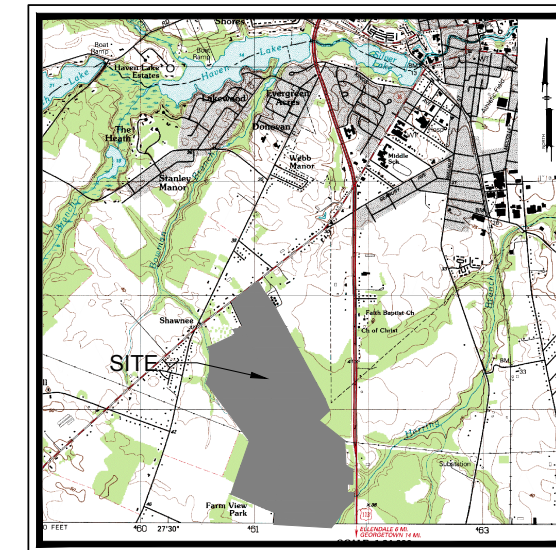
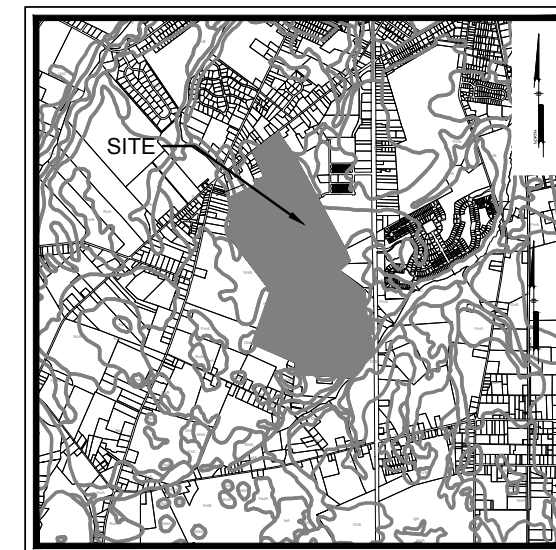
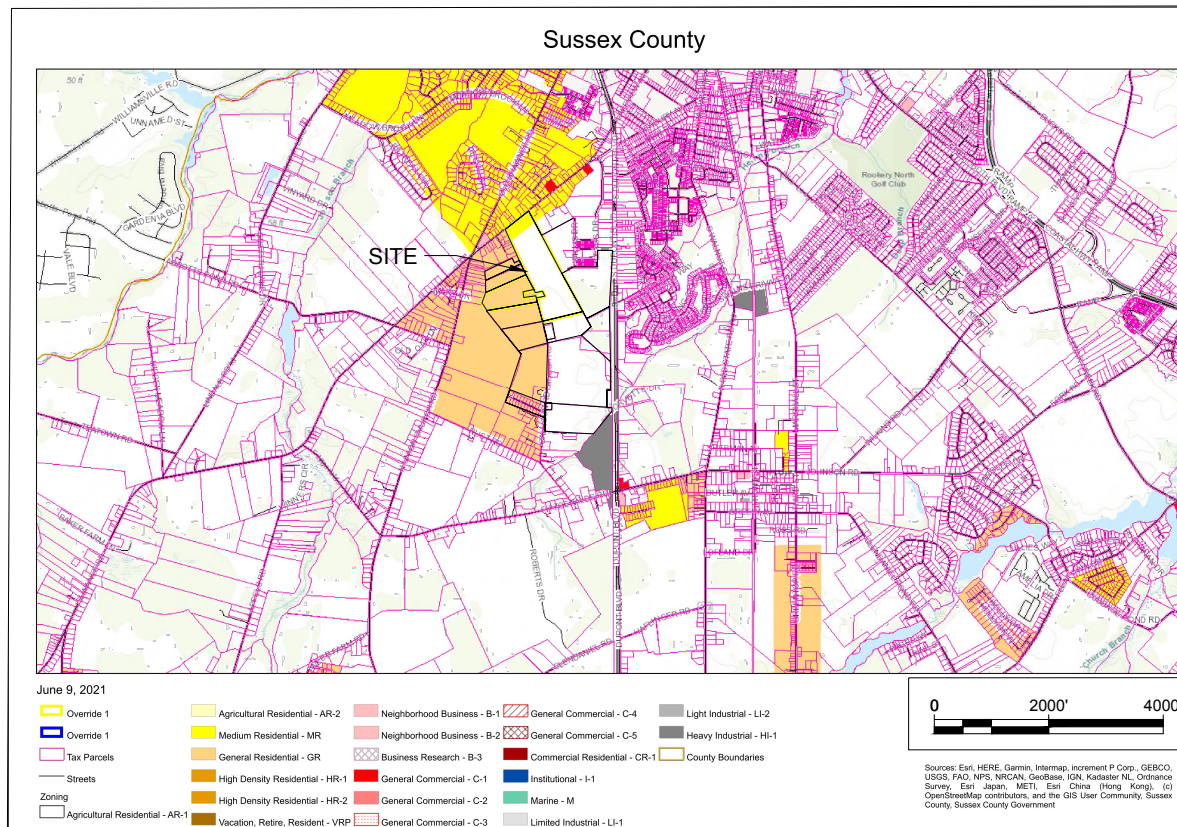
FREEMAN SOLAR GROUND MOUNT PHOTOVOLTAIC GENERATING FACILITY

CONDITIONAL USE SITE PLAN

CEDAR CREEK HUNDRED, SUSSEX COUNTY, DE

PREPARED FOR:
FREEMAN SOLAR, LLC
BROOKFIELD RENWEABLE, US
200 LIBERTY STREET, 14TH FLOOR
NEW YORK, NEW YORK 10281
(646) 992-2400

EXISTING	PROPOSED	DESCRIPTION
		BUILDING
		CURB
		EDGE OF PAVEMENT
		EDGE OF GRAVEL
		UTILITY EASEMENT
		PERMANENT EASEMENT
		FENCE
		POWER, UTILITY POLE
		PROPERTY LINE
		LEGAL RIGHT-OF-WAY
		PROPERTY, CORNER FOUND
		PROPERTY, ADJOINING LINE
		SITE, MAIL BOX
		SITE, TRAFFIC SIGN
		VEGETATED SWALE
		SOIL LABEL
		WELL
		SOIL BORING
		SPOT ELEVATION
		MARKING, HANDICAP PARKING
		LIGHT POLE
		EXISTING CONIFER TREE
		EXISTING OAK TREE
		100yr FLOOD PLAN
		CLEAR ZONE LINE
		UNDERGROUND COMMUNICATIONS LINE
		POWER, UNDERGROUND
		POWER, OVERHEAD
		CONTOUR, MINOR
		CONTOUR, MAJOR



TYPE	DESCRIPTION	HYDROLOGIC SOIL
WdA	WOODSTOWN SANDY LOAM, 0 TO 2 PERCENT SLOPES, NORTHERN TIDEWATER AREA	C
LO	LONGMARSH AND INDIANTOWN SOILS, FREQUENTLY FLOODED	B/D
FaA	FALLSINGTON SANDY LOAMS, 0 TO 2 PERCENT SLOPES, NORTHERN TIDEWATER AREA	B/D
DnA	DOWNER LOAMY SAND, 0 TO 2 PERCENT SLOPES	A
SaA	SASSAFRAS SANDY LOAM, 0 TO 2 PERCENT SLOPES, NORTHERN TIDEWATER AREA	B
IeA	INGLESIDE LOAMY SAND, 0 TO 2 PERCENT SLOPES	A
FmA	FORT MOTT LOAMY SAND, 0 TO 2 PERCENT SLOPES	A
FmB	FORT MOTT LOAMY SAND, 2 TO 5 PERCENT SLOPES	A
HbA	HAMBROOK SANDY LOAM, 0 TO 2 PERCENT SLOPES	B
RoA	ROSDALE LOAMY SAND, 0 TO 2 PERCENT SLOPES	A

Sheet Number	Drawing Number	Sheet Title
1	CS0001	COVER SHEET
2	CS1000	KEY SHEET
3	CS1001	CONDITIONAL USE SITE PLAN
4	CS1002	CONDITIONAL USE SITE PLAN
5	CS1003	CONDITIONAL USE SITE PLAN
6	CS1004	CONDITIONAL USE SITE PLAN

PREPARED BY:
PENNONI ASSOCIATES INC.
18072 Davidson Drive
Milton, DE 19968
T 302.684.8030
F 302.684.8054



NOT FOR CONSTRUCTION

CALL BEFORE YOU DIG
Call Miss Utility of Delmarva
800-282-8555
Ticket Number(s):

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

FREEMAN SOLAR GROUND MOUNT PHOTOVOLTAIC GENERATING FACILITY COVER SHEET
CEDAR CREEK HUNDRED MILFORD, DE 19963
FREEMAN SOLAR, LLC
BROOKFIELD RENWEABLE, US
200 LIBERTY STREET, 14TH FLOOR
NEW YORK, NEW YORK 10281

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PROJECT: BRKRE21001
DATE: 2021-06-09
DRAWING SCALE: AS SHOWN
DRAWN BY: LYJ
APPROVED BY: AMD

CS0001
SHEET 1 OF 6



PENNONI ASSOCIATES INC.
18072 Davidson Drive
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T 302.684.9030 F 302.684.8054

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
AND OWNER MUST BE NOTIFIED OF ANY
DISCREPANCIES BEFORE PROCEEDING WITH WORK

FREEMAN SOLAR GROUND MOUNT
PHOTOVOLTAIC GENERATING FACILITY

CEDAR CREEK HUNDRED
MILFORD, DE 19963

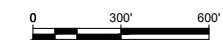
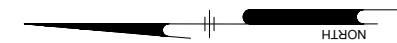
KEY SHEET

FREEMAN SOLAR, LLC
BROOKFIELD RENWEABLE, US
200 LIBERTY STREET, 14TH FLOOR
NEW YORK, NEW YORK 10281

NO.	DATE	REVISIONS	BY

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT	BRKRE21001
DATE	2021-06-09
DRAWING SCALE	1"=300'
DRAWN BY	LYJ
APPROVED BY	AMD



US 113- DUPONT BOULEVARD
(SC-113-F)
OTHER PRINCIPAL ARTERIALS

SHAWNEE ROAD (SR36)
MAJOR COLLECTOR (80' R.O.W.)

CALHOUN ROAD
LOCAL ROAD (50' R.O.W.)

HERRING BRANCH

BOWMAN BRANCH

CALHOUN ROAD
LOCAL ROAD (50' R.O.W.)

MATCHLINE: PLAN SHEET CS1001

MATCHLINE: PLAN SHEET CS1003

MATCHLINE: PLAN SHEET CS1001

MATCHLINE: PLAN SHEET CS1002

MATCHLINE: PLAN SHEET CS1003

MATCHLINE: PLAN SHEET CS1004

U:\Acad\BRKRE21001\Freeman Solar Farm\BRKRE21001_Plot\CS1000.dwg PLOTTED: 7/1/2021 12:31 PM BY: Leah Johnson PROJECT STATUS: PLOTTED: Penon Associates



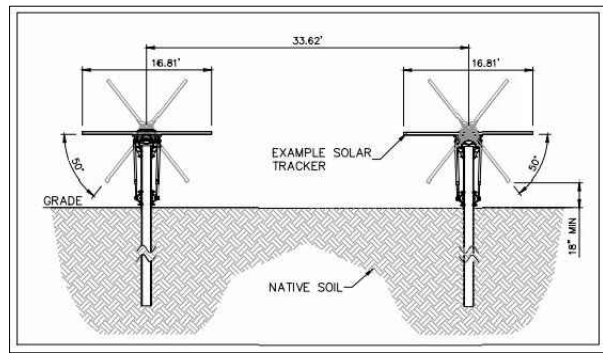
MATCHLINE: PLAN SHEET CS1002

MATCHLINE: PLAN SHEET CS1003

PV System Power Summary						
Inverter No.	Inverter AC Rating (MW)	PV Module Rating (W)	Qty of Modules	Qty of Strings	DC Power (MW)	DC/AC Ratio
1	3.000	660	6600	220	4.356	1.45
2	3.000	660	6630	221	4.376	1.46
3	3.000	660	6000	200	3.960	1.32
4	3.000	660	5820	194	3.841	1.28
5	3.000	660	5820	194	3.841	1.28
6	3.000	660	5790	193	3.821	1.27
7	3.000	660	5850	195	3.861	1.29
8	3.000	660	5370	179	3.544	1.18
9	3.000	660	5400	180	3.564	1.19
10	3.000	660	5370	179	3.544	1.18
11	3.000	660	5400	180	3.564	1.19
12	3.000	660	5310	177	3.505	1.17
13	3.000	660	5370	179	3.544	1.18
14	3.000	660	5310	177	3.505	1.17
15	3.000	660	5490	183	3.623	1.21
16	3.000	660	5370	179	3.544	1.18
17	3.000	660	5340	178	3.524	1.17
18	3.000	660	5340	178	3.524	1.17
19	3.000	660	5340	178	3.524	1.17
20	3.000	660	5370	179	3.544	1.18
21	3.000	660	5280	176	3.485	1.16
22	3.000	660	5160	172	3.406	1.14
23	3.000	660	5310	177	3.505	1.17
24	3.000	660	5280	176	3.485	1.16
25	3.000	660	5280	176	3.485	1.16
Total			138,600	4,620	91.5	1.22

DETAIL - PV SYSTEM POWER SUMMARY
NOT TO SCALE

1
CS-1001



DETAIL - SAMPLE TRACKER DETAIL
NOT TO SCALE

2
CS-1001

SYSTEM PROPERTIES	
CANADIAN SOLAR CSTN-660MB-AG 660W MODULES	
AZIMUTH / AXIS TILT	50°E (0°) / 0°
TRACKER ROTATION LIMITS	±50°
RACKING	QTY: 2-STRING - 201 / 3-STRING - 1406 33.62° PITCH
MODULES	QTY: 138,600
MODULES/STRING	30
INVERTERS	3,000kW SMA SUNNY CENTRAL 3000-EV (QTY: 25)
DC SIZE (MW)	91.50
AC SIZE (MW)	75.00
OVERBUILD RATIO (DC/AC)	1.22
GROUND COVERAGE RATIO (GCR)	50.00

DETAIL - SYSTEM PROPERTIES
NOT TO SCALE

3
CS-1001



Pennonni
PENNONNI ASSOCIATES INC.
 18072 Davidson Drive
 Milton, DE 19968
 T 302.684.3030 F 302.684.8054

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

FREEMAN SOLAR GROUND MOUNT PHOTOVOLTAIC GENERATING FACILITY
 CEDAR CREEK HUNDRED
 MILFORD, DE 19963
CONDITIONAL USE SITE PLAN
 FREEMAN SOLAR, LLC
 BROOKFIELD RENWEAWE, US
 200 LIBERTY STREET, 14TH FLOOR
 NEW YORK, NEW YORK 10281

NO.	DATE	REVISIONS	BY

PROJECT: **BRKRE21001**
 DATE: 2021-06-09
 DRAWING SCALE: 1"=100'
 DRAWN BY: LYJ
 APPROVED BY: AMD
CS1001
 SHEET 3 OF 6

U:\Projects\BRKRE21001 - Freeman Solar Farm\CS1002.dwg
 PLOTTED: 7/1/2021 12:05 PM BY: Leah Johnson
 PLOT STYLE: Pennoni VCL.dwg
 PROJECT STATUS: —



MATCHLINE: PLAN SHEET CS1001

MATCHLINE: PLAN SHEET CS1002

**FREEMAN SOLAR GROUND MOUNT
 PHOTOVOLTAIC GENERATING FACILITY**

CONDITIONAL USE SITE PLAN
 CEDAR CREEK HUNDRED
 MILFORD, DE 19963
FREEMAN SOLAR, LLC
 BROOKFIELD RENWEAWE, US
 200 LIBERTY STREET, 14TH FLOOR
 NEW YORK, NEW YORK 10281

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
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NO.	DATE	REVISIONS	BY

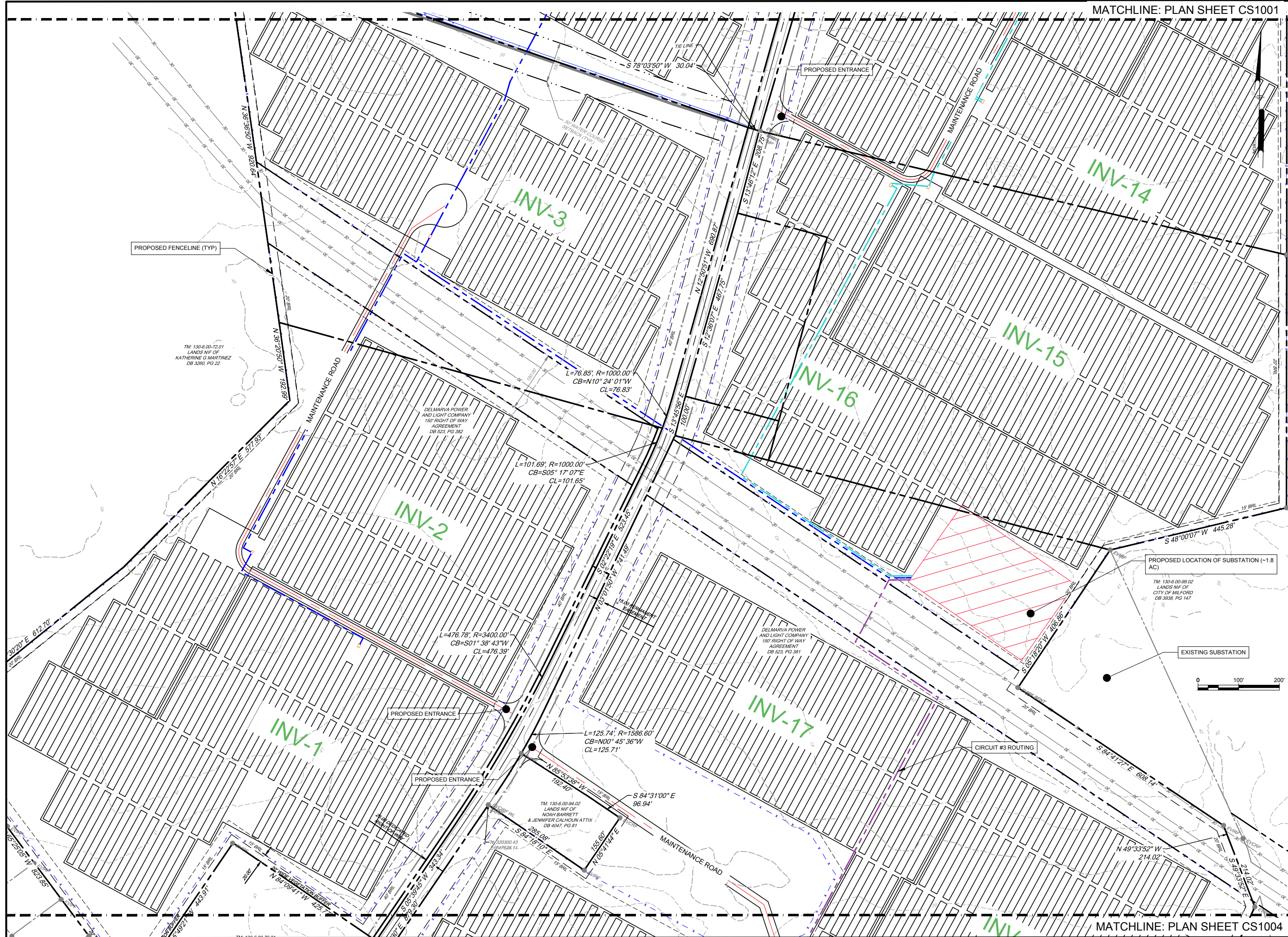
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PROJECT: BRKRE21001
 DATE: 2021-06-09
 DRAWING SCALE: 1"=100'
 DRAWN BY: LYJ
 APPROVED BY: AMD

CS1002
 SHEET 4 OF 6

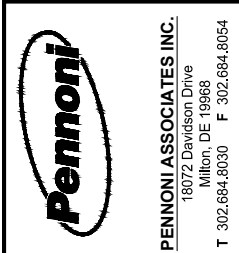


PENNONI ASSOCIATES INC.
 18072 Davidson Drive
 Milton, DE 19968
 T 302.684.9030 F 302.684.8054



MATCHLINE: PLAN SHEET CS1001

MATCHLINE: PLAN SHEET CS1004



ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

FREEMAN SOLAR GROUND MOUNT PHOTOVOLTAIC GENERATING FACILITY
 CEDAR CREEK HUNDRED
 MILFORD, DE 19963
CONDITIONAL USE SITE PLAN
 FREEMAN SOLAR, LLC
 BROOKFIELD RENWEAWE, US
 200 LIBERTY STREET, 14TH FLOOR
 NEW YORK, NEW YORK 10281

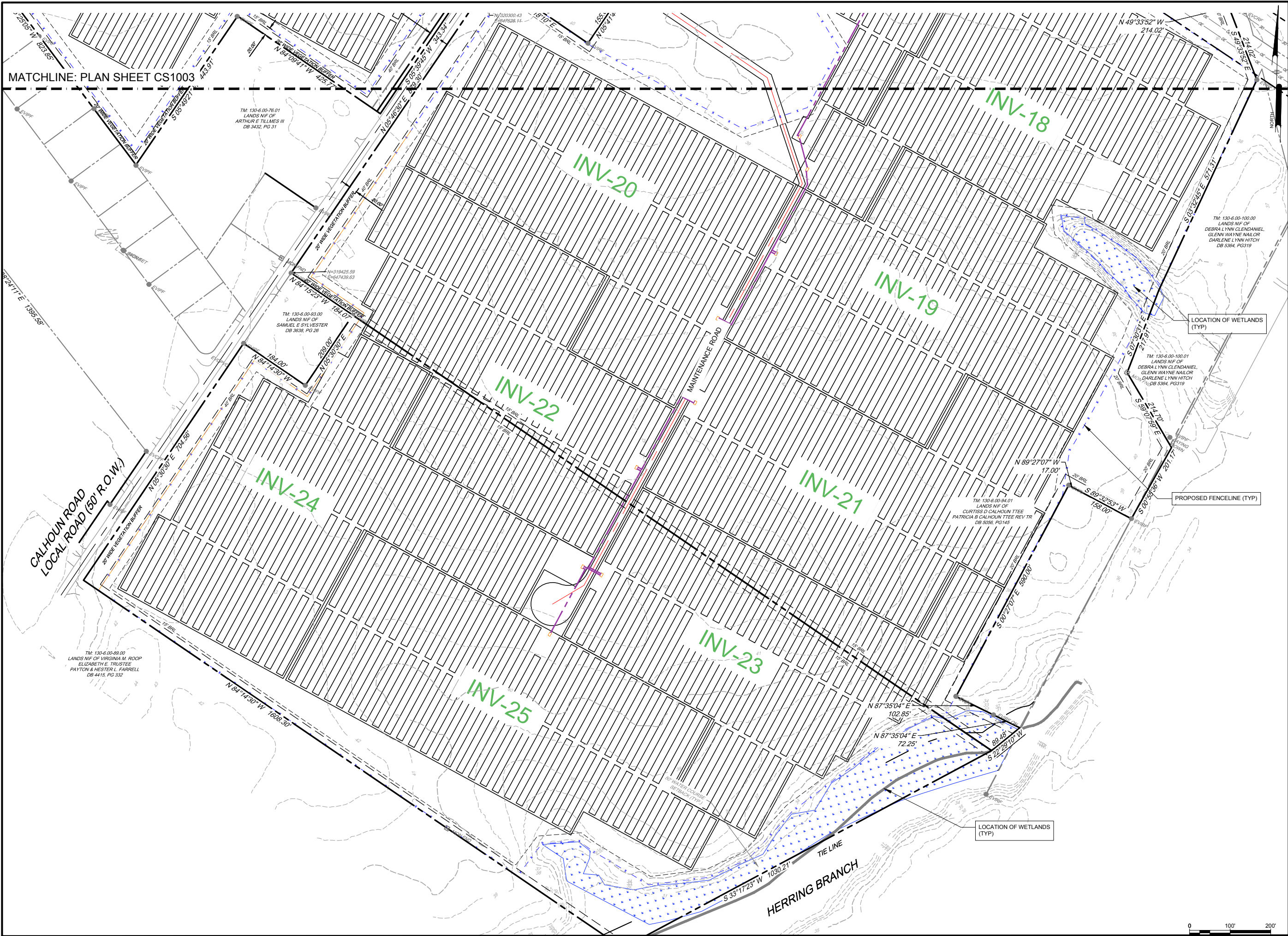
NO.	DATE	REVISIONS	BY

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PROJECT: BRKRE21001
 DATE: 2021-06-09
 DRAWING SCALE: 1"=100'
 DRAWN BY: LYJ
 APPROVED BY: AMD

CS1003
 SHEET 5 OF 6

PLOTTED: 7/1/2021 12:03 PM BY: Lark Johnson
 PROJECT STATUS: —
 PLOTFILE: Pennoni\CS1003.dwg



MATCHLINE: PLAN SHEET CS1003



PENNONI ASSOCIATES INC.
 18072 Davidson Drive
 Milton, DE 19968
 T 302.684.5030 F 302.684.8054

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

FREEMAN SOLAR GROUND MOUNT PHOTOVOLTAIC GENERATING FACILITY

CONDITIONAL USE SITE PLAN

CEDAR CREEK HUNDRED
 WILFORD, DE 19803

FREEMAN SOLAR, LLC
 BROOKFIELD RENWEABLE, US
 200 LIBERTY STREET, 14TH FLOOR
 NEW YORK, NEW YORK 10081

NO.	DATE	REVISIONS	BY

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PROJECT: BRKRE21001
 DATE: 2021-06-09
 DRAWING SCALE: 1"=100'
 DRAWN BY: LYJ
 APPROVED BY: AMD

CS1004

SHEET 6 OF 6



18072 Davidson Drive
Milton, DE 19968
T: 302-684-8030
F: 302-684-8054

www.pennoni.com

PARTICULAR DESCRIPTION
FOR THE PURPOSE OF A
CONDITIONAL USE APPLICATION
FOR
FREEMAN SOLAR, LLC

LANDS NOW OR FORMERLY OF
CLARENCE D. CALHOUN, JR.
CALHOUN VENTURES, LLC

CEDAR CREEK HUNDRED
SUSSEX COUNTY, DELAWARE

TAX MAP

130-3.00-246.00
130-3.00-247.00
130-3.00-247.02
130-6.00-75.00
130-6.00-76.00
130-6.00-92.00
130-6.00-94.00
130-6.00-95.00
130-6.00-96.00
130-6.00-97.00

All those certain lot, piece, and parcel of land, located along East and West side of Calhoun Road and South Shawnee Road and West of South Dupont Boulevard, situate in Cedar Creek Hundred, Sussex County, State of Delaware, and being more particularly described as follows:

BEGINNING, for the purpose of a conditional use for the above-described tax parcel numbers the following combined description:

Thence along a portion of **TM 130-3.00-247.00.**

- 1) South 28 degrees, 56 minutes, 22 seconds East, 904.15 feet more or less to a point,**

- 2) South 28 degrees, 32 minutes, 01 seconds East, 2,724.75 feet more or less to a point,

Thence along portion of TM 130-6.00-97.00

- 1) South 28 degrees, 27 minutes, 05 seconds East, 620.77 feet more or less to a point,
- 2) South 48 degrees, 00 minutes, 07 seconds West, 445.28 feet more or less to a point,

Thence along a portion of TM 130-6.00-94.00

- 1) South 05 degrees, 18 minutes, 20 seconds West, 406.86 feet more or less to a point,
- 2) South 84 degrees, 41 minutes, 27 seconds East, 608.14 feet more or less to a point,
- 3) South 49 degrees, 33 minutes, 52 seconds East, 214.02 feet more or less to a point,
- 4) South 03 degrees, 32 minutes, 45 seconds East, 571.31 feet to a point,
- 5) South 07 degrees, 30 minutes, 31 seconds East, 217.91 feet more or less to a point,
- 6) South 59 degrees, 07 minutes, 59 seconds East, 214.70 feet more or less to a point,
- 7) South 00 degrees, 55 minutes, 36 seconds West, 201.17 feet more or less to a point,
- 8) North 89 degrees, 32 minutes, 52 seconds East, 158.00 feet more or less to a point,
- 9) South 89 degrees, 27 minutes, 07 seconds East, 17.00 feet more or less to a point,
- 10) South 00 degrees, 27 minutes, 07 seconds East, 590.00 feet more or less to a point,
- 11) North 87 degrees, 35 minutes, 03 seconds East, 175.10 feet more or less to the approximate centerline of Herring Branch,
- 12) South 22 degrees, 29 minutes, 10 seconds West, 89.48 feet more or less along the approximate centerline of Herring Branch

Thence along the approximate centerline of Herring Branch and portion of TM 130-6.00-92.00

- 1) South 33 degrees, 17 minutes, 23 seconds West, 1,030.21 feet more or less, as a tie line along the approximate centerline of Herring Branch, to a point,
- 2) North 84 degrees, 14 minutes, 30 seconds West, 1,608.30 feet more or less to a point,
- 3) North 05 degrees, 30 minutes, 30 seconds East, 704.56 feet more or less to a point,
- 4) South 84 degrees, 14 minutes, 30 seconds East, 184.00 feet more or less to a point,
- 5) North 05 degrees, 30 minutes, 30 seconds East, 209.00 feet more or less to a point,

Thence along a portion of TM 130-6.00-94.00

- 1) North 84 degrees, 14 minutes, 30 seconds West, 184.07 feet more or less to a point
- 2) North 05 degrees, 46 minutes, 30 seconds East, 879.30 feet more or less to a point,
- 3) South 84 degrees, 18 minutes, 10 seconds East, 285.08 feet more or less to a point,
- 4) North 05 degrees 41 minutes 44 seconds East, 155.60 feet more or less to a point,
- 5) North 84 degrees, 31 minutes, 00 seconds West, 96.94 feet more or less to a point,
- 6) North 85 degrees, 53 minutes, 38 seconds West, 192.40 feet more or less to a point,
- 7) A curve to the left said curve having an Arc Distance of 125.74 feet more or less, Radius of 1,586.60 feet more or less, Delta 04 degrees, 32 minutes, 27 seconds, Chord Direction of North 00 degrees, 45 minutes, 36 seconds West, 125.71 feet more or less to a point,
- 8) North 03 degrees, 01 minutes, 50 seconds West, 741.49 feet more or less to a point,

Thence along a portion of TM 130-6.00-95.00

- 1) **North 13 degrees, 45 minutes, 56 seconds West, 100.00 feet more or less to a point**

Thence along a portion of TM 130-6.00-96.00

- 1) **North 12 degrees, 36 minutes, 07 seconds West, 467.75 feet more or less to a point,**

Thence along a portion of TM 130-6.00-97.00

- 1) **North 13 degrees, 46 minutes, 12 seconds West, 208.75 feet more or less, to point,**

Said point being a tie line combining these parcels on the East side of Calhoun Road to the parcels located on the West side of Calhoun Road; thence crossing Calhoun Road **South 78 degrees, 03 minutes, 50 seconds West, 30.04 feet more or less to a point;** said point being at or near the approximate centerline of the beginning of Bowman Branch;

Thence along a portion of TM 130-6.00-75.00

- 1) **South 12 degrees, 50 minutes, 51 seconds East, 690.87 feet more or less to a point,**
- 2) **With a curve to the right, said curve having a Radius of 1000.00 feet more or less, an Arc Distance of 76.85 feet more or less, Delta of 4 degrees, 24 minutes, 11 seconds with a Chord Direction of North 10 degrees, 24 minutes, 01 seconds West, 76.83 feet to a point,**

Thence along a portion of TM 130-6.00-76.00

- 1) **With a curve to the right, said curve having a Radius of 1000.00 feet more or less, an Arc Distance of 101.69 feet more or less, Delta 05 degrees, 49 minutes, 36 seconds and Chord Direction of South 05 degrees, 17 minutes, 07 seconds East, 122.58 feet more or less to a point,**

- 2) South 02 degrees, 22 minutes, 19 seconds East, 523.45 feet more or less to a point,
- 3) With a curve to the right, said curve having a Radius of 3400.00 feet more or less, Arc Distance of 476.78 feet more or less, Delta of 8 degrees, 02 minutes, 05 seconds, a Cord Distance of South 01 degrees, 38 minutes, 34 seconds West, 476.39 feet more or less to a point,
- 4) South 05 degrees, 39 minutes, 45 seconds West, 343.34 feet more or less to a point,
- 5) North 84 degrees, 09 minutes, 41 seconds West, 425.77 feet more or less to a point,
- 6) South 05 degrees, 49 minutes, 21 seconds West, 443.91 feet more or less to a point,
- 7) North 65 degrees, 25 minutes, 05 seconds West, 823.85 feet more or less to a point,
- 8) North 22 degrees, 30 minutes, 20 seconds East, 612.70 feet more or less to a point,
- 9) North 16 degrees, 22 minutes, 57 seconds East, 577.93 feet more or less to a point,
- 10) North 36 degrees, 20 minutes, 50 seconds West, 192.99 feet more or less to a point,

Thence along a portion of TM 130-6.00-75.00

- 1) North 36 degrees, 36 minutes, 50 seconds West, 920.64 feet more or less to the approximate centerline of Bowman Branch,

Thence meandering along the approximate centerline of Bowman Branch and then leaving Bowman Branch while remaining along a portion of TM 130-3.00-247.02

- 1) North 38 degrees, 06 minutes, 57 seconds West, 742.86 feet more or less,

Thence meandering approximately parallel to Bowman Branch and along a portion TM 130-3.00-247.00

- 1) North 38 degrees, 08 minutes, 18 seconds West, 220.33 feet more or less to a point,
- 2) North 22 degrees, 30 minutes, 48 seconds West, 33.76 feet more or less to a point,
- 3) North 07 degrees, 19 minutes, 03 seconds West, 16.92 feet more or less to a point,
- 4) North 12 degrees, 35 minutes, 12 seconds East, 110.87 feet more or less to a point,
- 5) North 14 degrees, 07 minutes, 16 seconds East, 182.70 feet more or less to the approximate centerline of Bowman Branch,

Thence along the approximate centerline of Bowman Branch and portion of TM 130-3.00-246.00

- 1) North 11 degrees, 05 minutes, 46 seconds East, 439.22 feet more or less, as a tie line along the approximate centerline of Bowman Branch, to a point,

Thence along a portion of TM 130-3.00-246.00

- 1) North 64 degrees, 08 minutes, 43 seconds East, 1,243.23 feet more or less to a point,
- 2) South 25 degrees, 51 minutes, 17 seconds East, 351.00 feet more or less to a point,

Thence along a portion of TM 130-3.00-247.00

- 1) South 64 degrees, 08 minutes, 43 seconds, West, 10.54 feet more or less to a point,
- 2) South 24 degrees, 34 minutes, 48 seconds East, 590.95 feet more or less to a point,
- 3) South 82 degrees, 14 minutes, 53 seconds West, 345.00 feet more or less to a point,
- 4) South 07 degrees, 49 minutes, 38 seconds East, 192.68 feet more or less to a point,
- 5) North 80 degrees, 51 minutes, 06 seconds East, 395.00 feet more or less to a point,

- 6) **A curve to the right, said curve having an Arc Distance of 71.44 feet more or less, Radius of 865.14 feet more or less, Delta 04 degrees, 43 minutes, 53 seconds, Chord Direction of South 15 degrees, 55 minutes, 54 seconds East, 71.41 feet more or less to a point,**
- 7) **South 12 degrees, 53 minutes, 13 seconds East, 109.40 feet more or less to a point,**

Thence along a portion of TM 130-3.00-247.02

- 1) **North 80 degrees, 25 minutes, 12 seconds East, 10.19 feet more or less to a point,**
- 2) **South 12 degrees, 51 minutes, 19 seconds East, 646.81 feet more or less to a point,**

Said point being at or near the approximate centerline of the beginning of Bowman Branch and said point being a tie line combining these parcels on the West side of Calhoun Road to the parcels located on the East side of Calhoun Road; thence crossing Calhoun Road **North 78 degrees, 03 minutes, 50 seconds East, 30.04 feet more or less to a point,**

Thence along a portion of TM 130-3.00-247.00

- 1) **North 12 degrees, 07 minutes, 50 seconds West, 757.08 feet more or less to a point,**
- 2) **North 78 degrees, 03 minutes, 04 seconds East, 243.00 feet more or less to a point,**
- 3) **North 22 degrees, 09 minutes, 38 seconds West, 167.31 feet more or less to a point,**
- 4) **South 80 degrees, 21 minutes, 24 seconds West, 232.22 feet more or less to a point,**
- 5) **With a curve to the left having an Arc Distance of 29.31 feet more or less, Radius of 906.47 feet more or less, Delta of 01 degrees, 51 minutes, 10 seconds, Chord Direction of North 24 degrees, 32 minutes, 49 seconds West, 29.31 feet more or less to a point,**
- 6) **North 25 degrees, 51 minutes, 17 seconds West, 2,240.91 feet more or less to a point,**

7) North 51 degrees, 51 minutes, 45 seconds East, 949.40 feet more or less to a point,

said point being the **POINT OF BEGINNING** for this description.

Said property shown on a plat prepared by Pennoni Associates Inc. and entitled "Conditional Use Site Plan" dated 06/30/2021 containing 350.96 acres of land more or less.



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
800 BAY ROAD
P.O. BOX 778
DOVER, DELAWARE 19903

NICOLE MAJESKI
SECRETARY

April 15, 2021

Mr. Jamie Whitehouse, Director
Sussex County Planning & Zoning
P.O. Box 417
Georgetown, DE 19947

Dear Mr. Whitehouse:

The Department has completed its review of a Service Level Evaluation Request for the **Mr. David M. Herskovits, VP – Asset Development, Brookfield Renewable, U. S.** proposed land use application, which we received on April 12, 2021. This application is for an approximately 347.62-acre assemblage of parcels (Tax Parcels: 130-3.00-246.00, 130-3.00-247.00, 130-3.00-247.02, 130-6.00-75.00, 130-6.00-76.00, 130-6.00-97.00, 130-6.00-96.00, 130-6.00-95.00, 130-6.00-94.00, 130-6.00-92.00). The parcels are located on the east and west sides of Calhoun Road from Shawnee Road to Isdell Drive. Tax Parcel 130-3.00-247.00 is located on the south east corner of Shawnee Road and Calhoun Road. Tax Parcel 130-6.00-94.00 has frontage on Dupont Boulevard. The subject lands are currently zoned GR (General Residential), MR (Medium-Density Residential), AR-1 (Agriculture Residential), and the applicant seeks a conditional use approval for a Solar Farm.

Per the 2019 Delaware Vehicle Volume Summary, the annual average daily traffic volume along Calhoun Road (Sussex Road 621), is 812 vehicles per day. The annual average daily traffic volume along Shawnee Road (Sussex Road 36) from Dupont Boulevard (US 113) to North Union Church Road (Sussex Road 42), is 3,719 vehicles per day. The annual average daily traffic volume along Dupont Boulevard (US 113) from Lakeview Road (Sussex Road 36) to Fitzgeralds Road, is 7,468 vehicles per day.

Based on our review, we estimate that the above land use will generate fewer than 50 vehicle trips per day. This number of trips is below DelDOT's minimum warrants for determining that a Traffic Impact Study (TIS) should be required for a particular development. DelDOT's regulations specify the minimum TIS warrants as 50 vehicle trips in any hour and/or 500 vehicle trips per day. Because the proposed land use would generate fewer than 50 vehicle trips per day, we consider the development's traffic impact to be **diminutive** in the context of our agreement with the County regarding land development coordination and we do not recommend that the applicant be required to perform a TIS for the subject application. DelDOT's description of this



Mr. Jamie Whitehouse

Page 2 of 2

April 15, 2021

application as diminutive with regard to warranting a TIS does not mean that it is diminutive in other respects. We recommend that the applicant not be required to perform a TIS for the subject application.

If the County approves this application, the applicant should be reminded that DelDOT requires compliance with State regulations regarding plan approvals and entrance permits, whether or not a TIS is required.

Please contact Ms. Annamaria Furmato, at (302) 760-2710, if you have questions concerning this correspondence.

Sincerely,



T. William Brockenbrough, Jr.
County Coordinator
Development Coordination

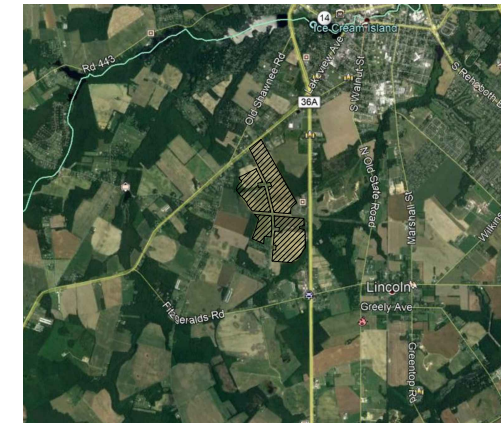
TWB:afm

cc: David M. Herskovits, Brookfield Renewable, U. S., Applicant
Mark H. Davidson, Pennoni Associates, Inc.
Russell Warrington, Sussex County Planning & Zoning
Constance C. Holland, Coordinator, Cabinet Committee on State Planning Issues
Todd Sammons, Assistant Director, Development Coordination
Scott Rust, South District Public Works Manager, Maintenance & Operations
Steve McCabe, Sussex County Review Coordinator, Development Coordination
Derek Sapp, Subdivision Manager, Development Coordination
Kevin Hickman, Subdivision Manager, Development Coordination
Brian Yates, Subdivision Manager, Development Coordination
John Andrescavage, Subdivision Manager, Development Coordination
James Argo, South District Project Reviewer, Maintenance & Operations
Troy Brestel, Project Engineer, Development Coordination
Claudy Joinville, Project Engineer, Development Coordination
Annamaria Furmato, Project Engineer, Development Coordination

TAB 2
EXHIBITS



- NOTES:
1. BASE IMAGERY COPYRIGHT MICROSOFT AND DIGITAL GLOBE 2021.
 2. 14' INTERIOR ROADS
 3. MINIMUM SETBACKS CONSIDERED:
 - a. 20' MINIMUM FROM FENCE TO INTERIOR ROADS OR PV ARRAY
 - b. 53' RADIUS ALLOWED FOR TURNAROUNDS



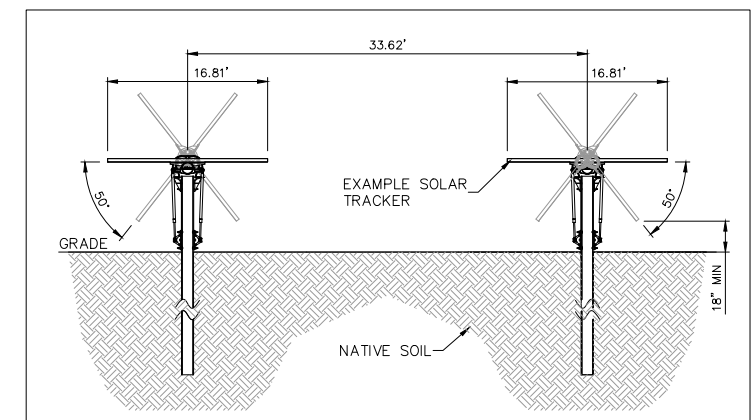
A KEYMAP-GPS: 38°52'55.71"N 75°26'49.52"W
N.T.S

SYSTEM PROPERTIES	
	CANADIAN SOLAR CS7N-660MB-AG 660W MODULES
AZIMUTH / AXIS TILT	S0°E (0°) / 0°
TRACKER ROTATION LIMITS	±50°
RACKING	QTY: 2-STRING - 201 / 3-STRING - 1406 33.62' PITCH
MODULES	QTY: 138,600
MODULES/STRING	30
INVERTERS	3,000kW SMA SUNNY CENTRAL 3000-EV (QTY: 25)
DC SIZE (MW)	91.50
AC SIZE (MW)	75.00
OVERBUILD RATIO (DC/AC)	1.22
GROUND COVERAGE RATIO (GCR)	50.00

B SYSTEM PROPERTIES
N.T.S

PV System Power Summary						
Inverter No.	Inverter AC Rating (MW)	PV Module Rating (W)	Qty Of Modules	Qty of Strings	DC Power (MW)	DC/AC Ratio
1	3.000	660	6600	220	4.356	1.45
2	3.000	660	6630	221	4.376	1.46
3	3.000	660	6000	200	3.960	1.32
4	3.000	660	5820	194	3.841	1.28
5	3.000	660	5820	194	3.841	1.28
6	3.000	660	5790	193	3.821	1.27
7	3.000	660	5850	195	3.861	1.29
8	3.000	660	5370	179	3.544	1.18
9	3.000	660	5400	180	3.564	1.19
10	3.000	660	5370	179	3.544	1.18
11	3.000	660	5400	180	3.564	1.19
12	3.000	660	5310	177	3.505	1.17
13	3.000	660	5370	179	3.544	1.18
14	3.000	660	5310	177	3.505	1.17
15	3.000	660	5490	183	3.623	1.21
16	3.000	660	5370	179	3.544	1.18
17	3.000	660	5340	178	3.524	1.17
18	3.000	660	5340	178	3.524	1.17
19	3.000	660	5340	178	3.524	1.17
20	3.000	660	5370	179	3.544	1.18
21	3.000	660	5280	176	3.485	1.16
22	3.000	660	5160	172	3.406	1.14
23	3.000	660	5310	177	3.505	1.17
24	3.000	660	5280	176	3.485	1.16
25	3.000	660	5280	176	3.485	1.16
Total			138,600	4,620	91.5	1.22

C PV SYSTEM POWER SUMMARY
N.T.S



D SAMPLE TRACKER DETAIL
N.T.S

I:\2028095052\Drawings\2D Drawings\20700_electrical\20722_elementary_nv_mv\E1_ConceptualPV Layout.dwg 2021.06.22 10:52:33 AM J:\Projects\2028095052\Drawings\2D Drawings\20700_electrical\20722_elementary_nv_mv\E1_ConceptualPV Layout.dwg

Revision	By	Appd.	YY.MM.DD	Issued	By	Appd.	YY.MM.DD
0				CONCEPT DESIGN	CMA	TX	21.06.22

1599 RT 34 Suite 3
Wall Township, NJ
www.stantec.com

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Client/Project	BROOKFIELD RENEWABLE US 75MW AC FREEMAN SOLAR
MILFORD, SUSSEX COUNTY, DE	
File Name: E1 Conceptual PV Layout	CMA TX CMA 21.06.15 Dwn. Chkd. Dgn. YY.MM.DD

Title	CONCEPTUAL LAYOUT	
Project No.	2028095052	Scale AS SHOWN
Drawing No.	E-1	Sheet 1 of 1
Revision		0

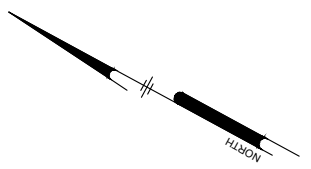
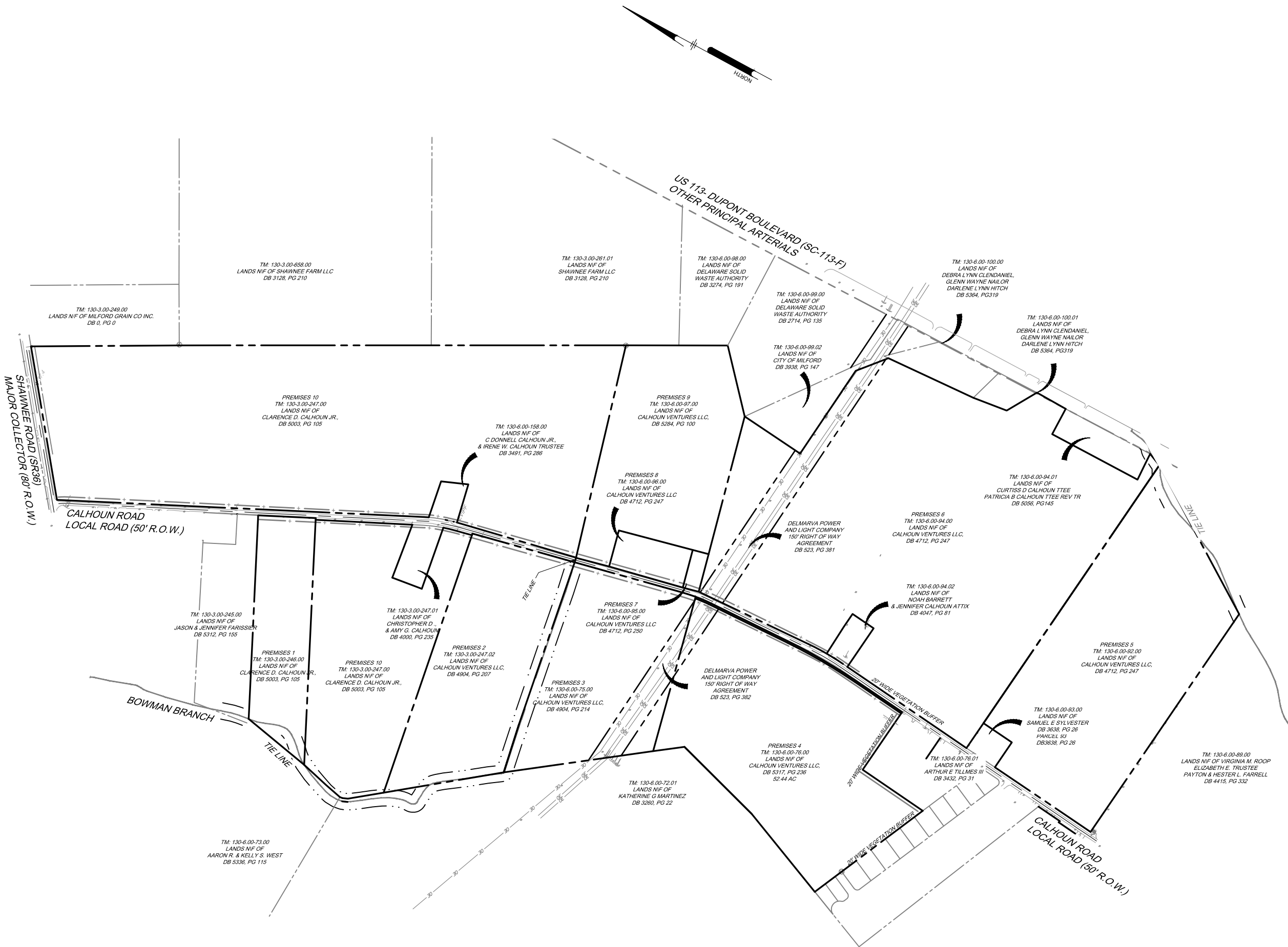


ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

FREEMAN SOLAR FARM
CALHOUN ROAD
MILFORD, DE 19963

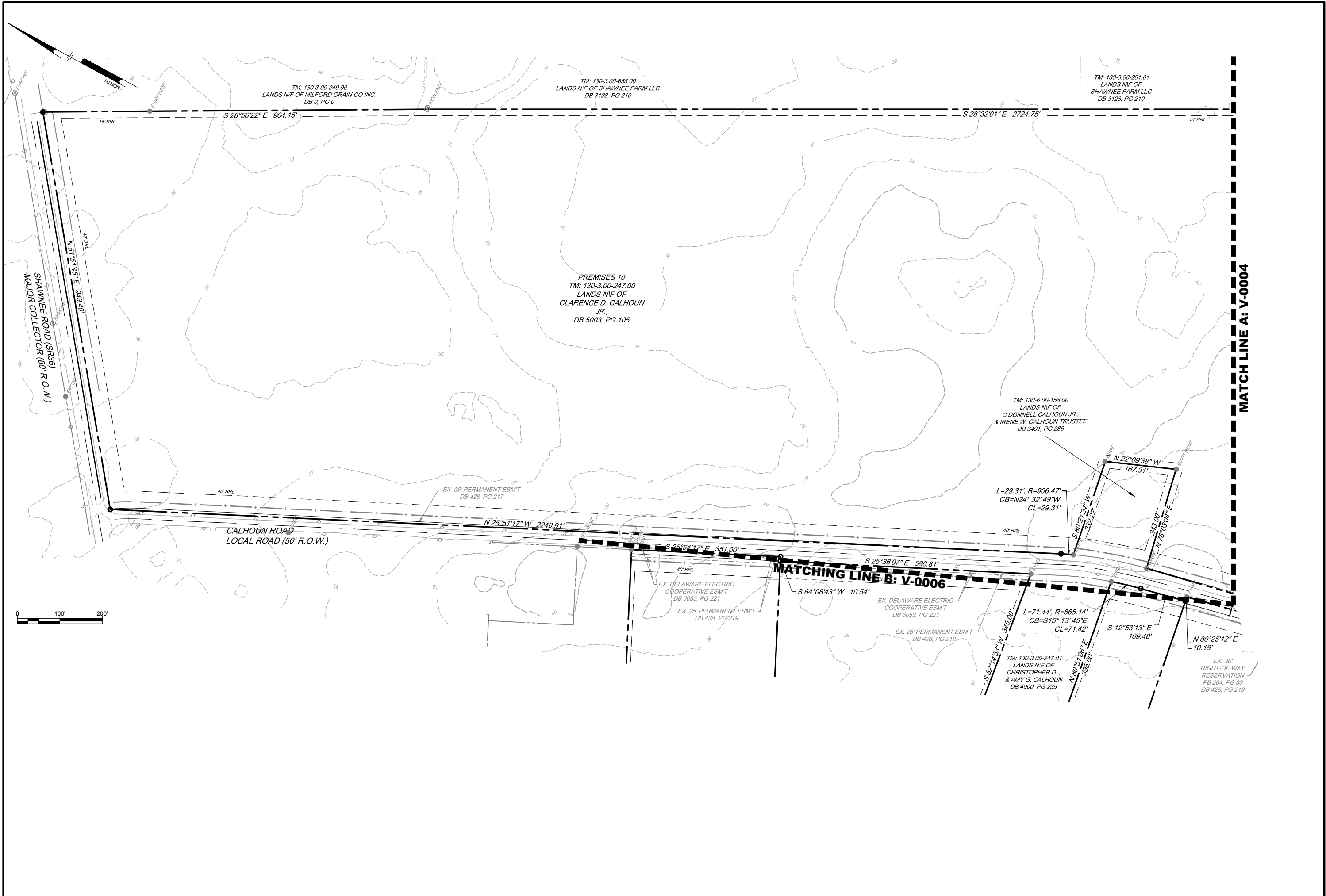
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PROJECT: _____
DATE: _____
DRAWING SCALE: _____



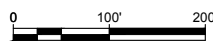
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PLOT STYLE: Pennoni NCS.rvt

Freeman Solar Farm/DESIGN_SHEETS/ALTA_V-DRAWINGS/1401.dwg



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Freeman Solar Farm\DESIGN_SHEETS\ALTA_V-DRAWINGS\0001.dwg

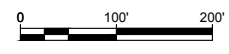
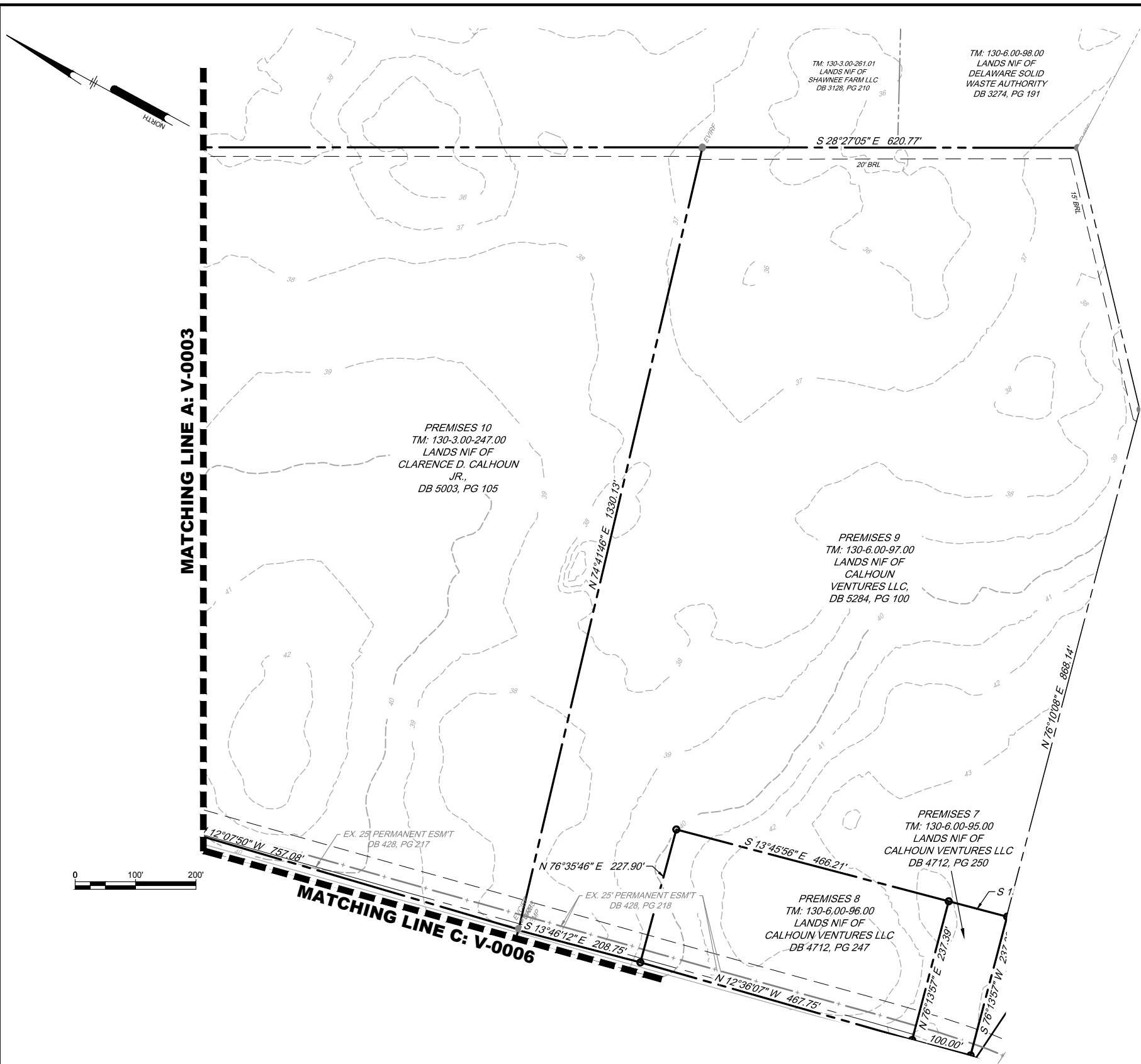


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 AND OWNER MUST BE NOTIFIED OF ANY
 DISCREPANCIES BEFORE PROCEEDING WITH WORK

FREEMAN SOLAR FARM
 CALHOUN ROAD
 MILFORD, DE 19963

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PROJECT: _____
 DATE: _____
 DRAWING SCALE: _____



HILSON

PLOTTED: 8/13/2021 2:01 PM BY: Gregory S. Edwards PLOTSTYLE: Pennoni NCS.tbl PROJECT STATUS: —

Freeman Solar Farm/DESIGN_SHEETS/ALTA_V-DRAWINGS/0006.dwg



ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

FREEMAN SOLAR FARM
 CALHOUN ROAD
 MILFORD, DE 19963

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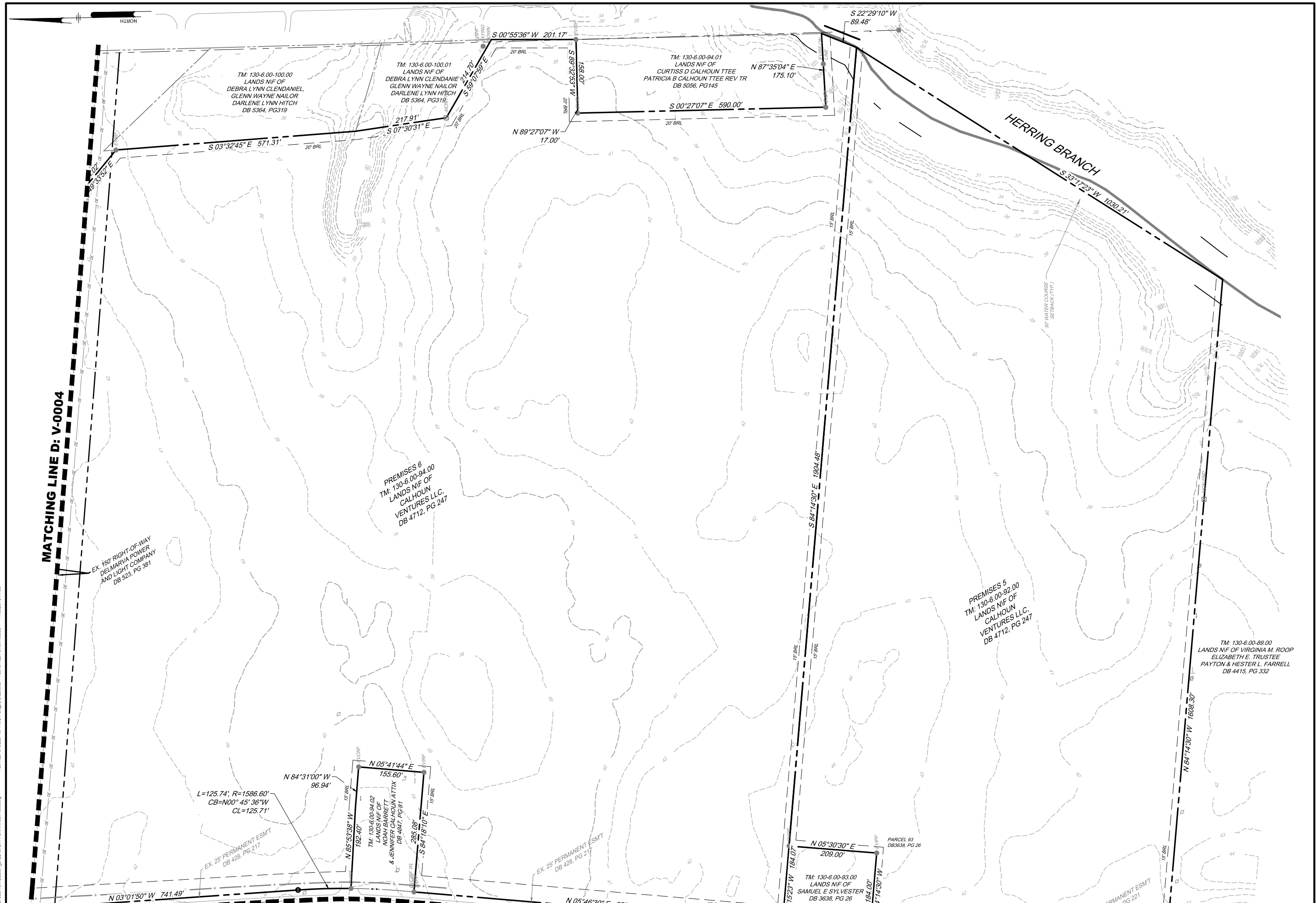
PROJECT
 DATE
 DRAWING SCALE



ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

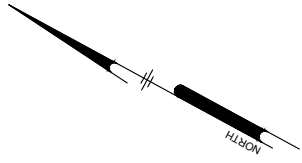
FREEMAN SOLAR FARM
CALHOUN ROAD
MILFORD, DE 19963

PROJECT
DATE
DRAWING SCALE



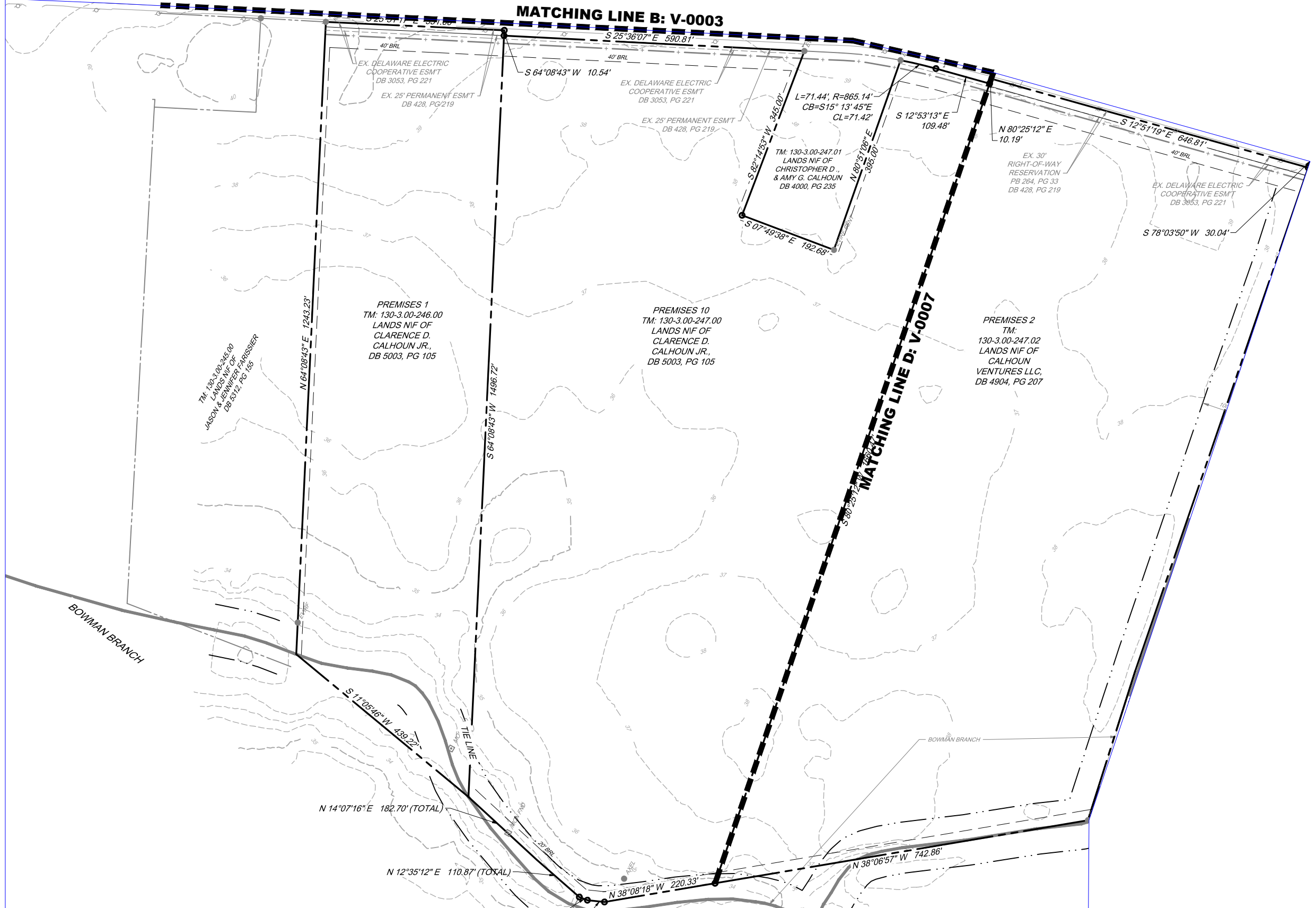
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Freeman Solar Farm/DESIGN_SHEETS/ALTA_V-DRAWINGS/0005.dwg



MATCHING LINE B: V-0003

MATCHING LINE D: V-0007



EX. DELAWARE ELECTRIC COOPERATIVE ESMT DB 3053, PG 221
EX. 25' PERMANENT ESMT DB 428, PG 219

EX. DELAWARE ELECTRIC COOPERATIVE ESMT DB 3053, PG 221
EX. 25' PERMANENT ESMT DB 428, PG 219

L=71.44', R=865.14'
CB=S15° 13' 45" E
CL=71.42'
TM: 130-3.00-247.01
LANDS NIF OF CHRISTOPHER D. & AMY G. CALHOUN DB 4000, PG 235

EX. 30' RIGHT-OF-WAY RESERVATION PB 264, PG 33 DB 428, PG 219

EX. DELAWARE ELECTRIC COOPERATIVE ESMT DB 3053, PG 221

TM: 130-3.00-246.00
LANDS NIF OF JASON & JENNIFER FARPSSNER DB 3312, PG 153

PREMISES 1
TM: 130-3.00-246.00
LANDS NIF OF CLARENCE D. CALHOUN JR., DB 5003, PG 105

PREMISES 10
TM: 130-3.00-247.00
LANDS NIF OF CLARENCE D. CALHOUN JR., DB 5003, PG 105

PREMISES 2
TM: 130-3.00-247.02
LANDS NIF OF CALHOUN VENTURES LLC, DB 4904, PG 207

PLOTTED: 8/10/2021 1:56 PM BY: Gregory S. Edwards PLOTSTYLE: Pennoni NCS.tbl PROJECT STATUS: —

Freeman Solar Farm DESIGN SHEETS ALTA V-DRAWINGS\0006.dwg



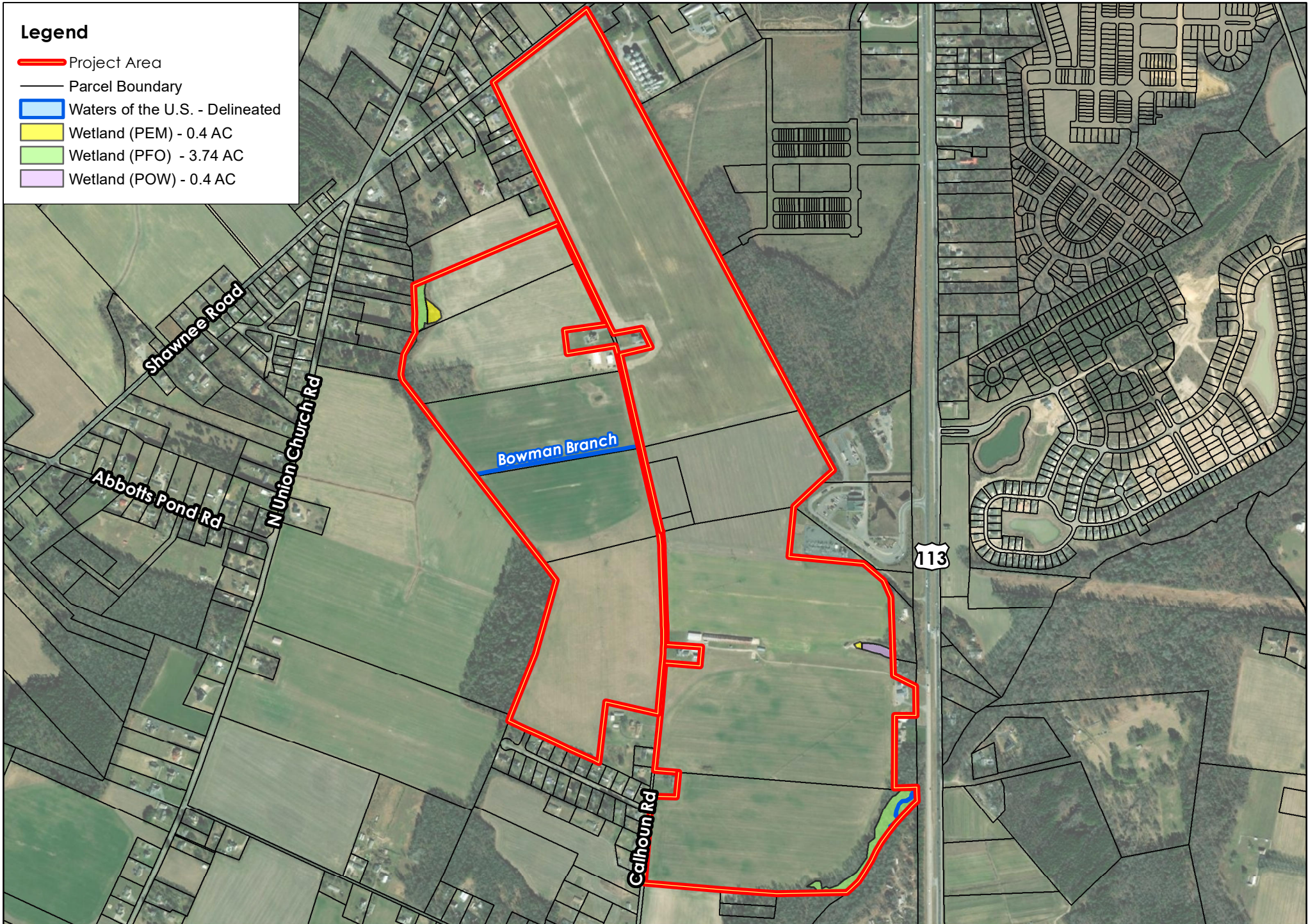
ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

FREEMAN SOLAR FARM
CALHOUN ROAD
MILFORD, DE 19963

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PROJECT: _____
DATE: _____
DRAWING SCALE: _____

Legend

- Project Area
- Parcel Boundary
- Waters of the U.S. - Delineated
- Wetland (PEM) - 0.4 AC
- Wetland (PFO) - 3.74 AC
- Wetland (POW) - 0.4 AC



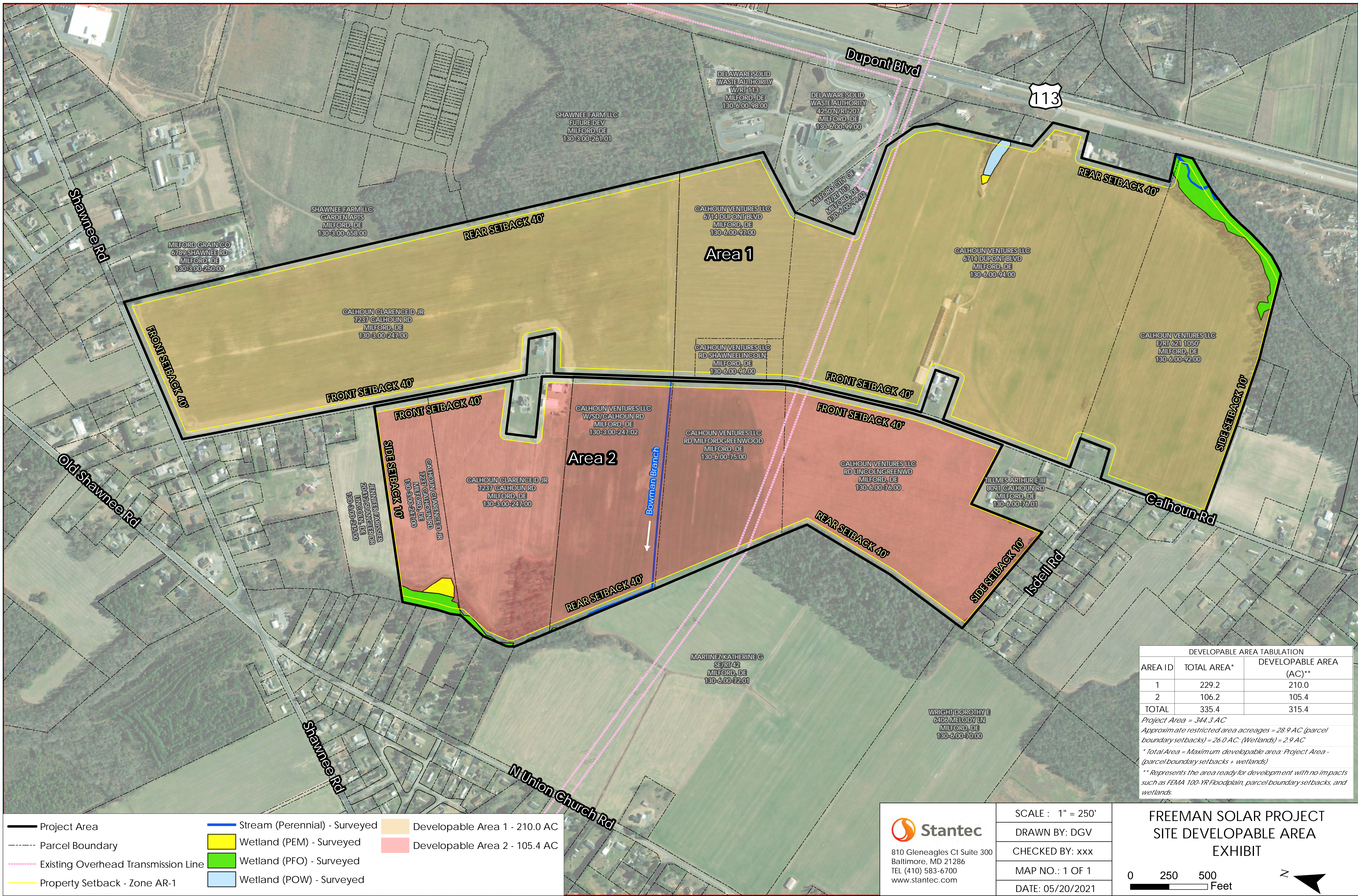
Notes:
1. Wetland delineation was conducted on February 8, 2021 and May 19, 2021.
2. Coordinate System: NAD 1983 COR596 StatePlane Delaware FIPS 0700 F1 US
3. Source data: Delaware First Map Online GIS Revised by Stantec
4. Imagery: Street Map [c] ESRI

FREEMAN SOLAR PROJECT
Figure 7: Wetland Delineation
May 2021

Stantec Consulting Services Inc.
810 Gleneagles Ct Suite 300
Baltimore, MD 21286
tel (410) 583-6700
fax (410) 583-6704



Prepared by: D.G.V 05/21/21
CD
Independent Review by: ETW



DEVELOPABLE AREA TABULATION		
AREA ID	TOTAL AREA*	DEVELOPABLE AREA (AC)**
1	229.2	210.0
2	106.2	105.4
TOTAL	335.4	315.4

Project Area = 344.3 AC
Approximate restricted area acreages = 28.9 AC (parcel boundary setbacks) = 26.0 AC; (Wetlands) = 2.9 AC
** Total Area = Maximum developable area - Project Area - (parcel boundary setbacks + wetlands)*
*** Represents the area ready for development with no impacts such as FEMA 100-YR Floodplain, parcel boundary setbacks, and wetlands.*

<ul style="list-style-type: none"> Project Area Parcel Boundary Existing Overhead Transmission Line Property Setback - Zone AR-1 	<ul style="list-style-type: none"> Stream (Perennial) - Surveyed Wetland (PEM) - Surveyed Wetland (PFO) - Surveyed Wetland (POW) - Surveyed 	<ul style="list-style-type: none"> Developable Area 1 - 210.0 AC Developable Area 2 - 105.4 AC
--	---	--

Stantec
 810 Gleneagles Ct Suite 300
 Baltimore, MD 21286
 TEL (410) 583-6700
 www.stantec.com

SCALE: 1" = 250'
 DRAWN BY: DGV
 CHECKED BY: xxx
 MAP NO.: 1 OF 1
 DATE: 05/20/2021

FREEMAN SOLAR PROJECT
SITE DEVELOPABLE AREA
EXHIBIT

0 250 500 Feet

THE BOUNDARY SHOWN ON THIS PLAN WAS TAKEN FROM INFORMATION OF PUBLIC RECORD AND FOLLOWS THE LIMITED GUIDELINES OF BOUNDARY LINE SURVEYS IN ORDER TO IDENTIFY THE BORDER OF THE TAX PARCELS IDENTIFIED WITHIN THE DRAWING. THIS IS NOT A STATUTORY BOUNDARY SURVEY; LINES RUN OR SHOWN HAVE NOT BEEN EVALUATED FOR TITLE RIGHTS EITHER WRITTEN OR UNWRITTEN. OCCUPATION, STRUCTURAL ENCROACHMENTS, EASEMENTS, UTILITIES OR USE LINES ARE SHOWN BY LOCATION ONLY WITHOUT ASSESSING OWNERSHIP.

SHAWNEE ROAD (GR36)
MAJOR COLLECTOR
(80' RIGHT OF WAY)

N 51° 52' 00" E 947.91'

40' BR.

S 29° 32' 27" E 302.15'

TM: 130-3-60-249.00
MILFORD GRAIN CO. INC

N 61° 32' 08" E 888.23'

N 61° 17' 17" E 372.54'

TM: 130-3.00-247.00
LANDS NIF OF
CLARENCE D. CALHOUN JR.,
DB 5003, PG 105

TM: 130-3.00-658.00
LANDS NIF OF
SHAWNEE FARM LLC
DB 3128, PG 210

TM: 130-3.00-245.00
LANDS NIF OF
JASON & JENNIFER FARISSIER
DB 5312, PG 155

TM: 130-3.00-246.00
LANDS NIF OF
CLARENCE D. CALHOUN JR.,
DB 5003, PG 105

S 64° 34' 18" W 1268.11'

S 25° 11' 27" E
128.00'

25.00 DEDICATED
RIGHT-OF-WAY
15.00 PERMANENT
EASEMENT

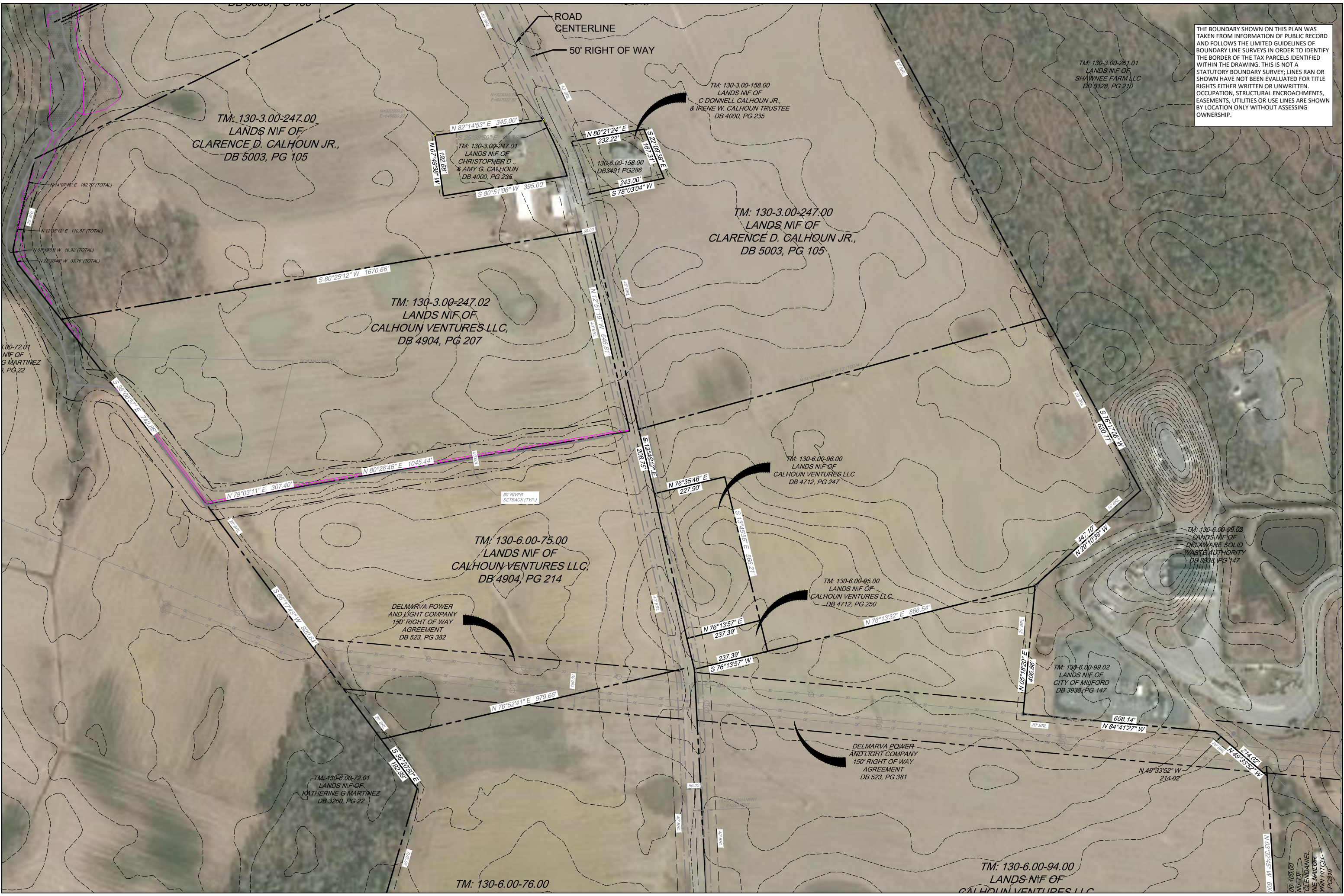
CALHOUN ROAD (GR37)
LOCAL ROAD

S 29° 32' 27" E 302.15'

ROAD
CENTERLINE

50' RIGHT OF WAY

THE BOUNDARY SHOWN ON THIS PLAN WAS TAKEN FROM INFORMATION OF PUBLIC RECORD AND FOLLOWS THE LIMITED GUIDELINES OF BOUNDARY LINE SURVEYS IN ORDER TO IDENTIFY THE BORDER OF THE TAX PARCELS IDENTIFIED WITHIN THE DRAWING. THIS IS NOT A STATUTORY BOUNDARY SURVEY; LINES RAN OR SHOWN HAVE NOT BEEN EVALUATED FOR TITLE RIGHTS EITHER WRITTEN OR UNWRITTEN. OCCUPATION, STRUCTURAL ENCROACHMENTS, EASEMENTS, UTILITIES OR USE LINES ARE SHOWN BY LOCATION ONLY WITHOUT ASSESSING OWNERSHIP.



TM: 130-3.00-247.00
LANDS NIF OF
CLARENCE D. CALHOUN JR.,
DB 5003, PG 105

TM: 130-3.00-247.01
LANDS NIF OF
CHRISTOPHER D.
& AMY G. CALHOUN
DB 4000, PG 235

TM: 130-3.00-158.00
LANDS NIF OF
C DONNELL CALHOUN JR.
& IRENE W. CALHOUN TRUSTEE
DB 4000, PG 235

TM: 130-3.00-261.01
LANDS NIF OF
SHAWNEE FARM LLC
DB 3128, PG 210

TM: 130-3.00-247.00
LANDS NIF OF
CLARENCE D. CALHOUN JR.,
DB 5003, PG 105

TM: 130-3.00-247.02
LANDS NIF OF
CALHOUN VENTURES LLC,
DB 4904, PG 207

TM: 130-6.00-75.00
LANDS NIF OF
CALHOUN VENTURES LLC,
DB 4904, PG 214

TM: 130-6.00-72.01
LANDS NIF OF
KATHERINE G MARTINEZ
DB 3260, PG 22

TM: 130-6.00-76.00

TM: 130-6.00-96.00
LANDS NIF OF
CALHOUN VENTURES LLC
DB 4712, PG 247

TM: 130-6.00-95.00
LANDS NIF OF
CALHOUN VENTURES LLC
DB 4712, PG 250

TM: 130-6.00-99.02
LANDS NIF OF
CITY OF MIDFORD
DB 3938, PG 147

TM: 130-6.00-99.03
LANDS NIF OF
DELAWARE SOLID
WASTE AUTHORITY
DB 3933, PG 147

TM: 130-6.00-94.00
LANDS NIF OF
CALHOUN VENTURES LLC

TM: 130-6.00-99.01
LANDS NIF OF
CANDACE M. HITCHCOCK
DB 3938, PG 147



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TAB 3

SOLAR ENERGY AND THE PJM

Brookfield Renewable U.S

FREEMAN SOLAR LLC

JOHN SOININEN – PROJECT MANAGER

MAY 3RD 2022



A LEADING RENEWABLE POWER COMPANY IN THE U.S.

PROVIDING INNOVATIVE **RENEWABLE ENERGY** SOLUTIONS

TO ADVANCE YOUR SUSTAINABILITY GOALS

120

Years Experience

8,080 MW

Installed Capacity

25,000 GWH

Power Produced
Annually

5 SECTORS

Multi-technology

Bear Swamp Pumped Storage, Massachusetts

DIVERSIFIED OPERATING PORTFOLIO OF HIGH-QUALITY ASSETS

HYDRO

Our portfolio provides emission-free baseload power and flood control while preserving aquatic habitat

3,150 MW

WIND

Our turbines harness world-class wind resources, providing reliable, competitively priced clean power

2,360 MW

SOLAR

Our portfolio of utility and distributed-scale solar facilities enable diversified solutions sized to your needs

680 MW**

DISTRIBUTED ENERGY RESOURCES

We operate over 5,400 on-site renewables, lowering fossil-fuel use and energy costs for customers

1,130 MW*

ENERGY STORAGE

Our pumped storage and battery assets strengthen grid reliability and help integrate intermittent renewable resources onto the system

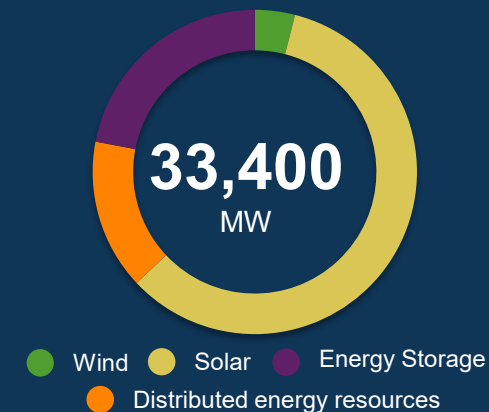
650 MW

* Distributed energy resources owned and operated by Luminace, a Brookfield Renewable company. Rated in DC.

** Includes 175 megawatts of assets owned through X-Elio

ROBUST U.S. RENEWABLE DEVELOPMENT

Together with our portfolio companies Urban Grid and Luminace, we have a diversified pipeline of renewable development projects totaling 33,400 megawatts, making us one of the largest developers in the U.S. Leveraging our in-house technical expertise, we oversee projects, from site acquisition through interconnection, permitting, and commercialization, to ensure that our projects meet best-in-class quality standards at competitive costs.



* Includes proposed development projects by Urban Grid, X-Elio, Luminace

POWER MARKETING EXPERTISE

- Expertise in structured power products and managing merchant renewable portfolios
- Optimize asset value across ISO and bilateral markets, including interconnections with adjoining power markets
- Flexible, incremental, shaped or full requirements power
- Schedule, dispatch and arrange for transmission

OWNER-OPERATORS

- Maximize energy yield
- Focused on plant efficiency
- Deploy hands-on, preemptive maintenance
- Leverage advanced technology to optimize operations
- Low-cost operations

DEVELOPMENT & CONSTRUCTION

- Deliver projects from conception through development, financing, construction and operation
- In-house technical experts oversee planning and construction to ensure projects meet best-in-class quality standards at competitive costs
- Proven ability to manage large capital projects
- Experience working with local agencies, communities and regulators

800+

Employees

12 MILLION

Metric Tons Of Avoided
Emissions Annually

3 MILLION

Homes Electricity Use
Annually

24/7




National System
Control Center

LEADING RENEWABLE ENERGY PROVIDER IN THE U.S.

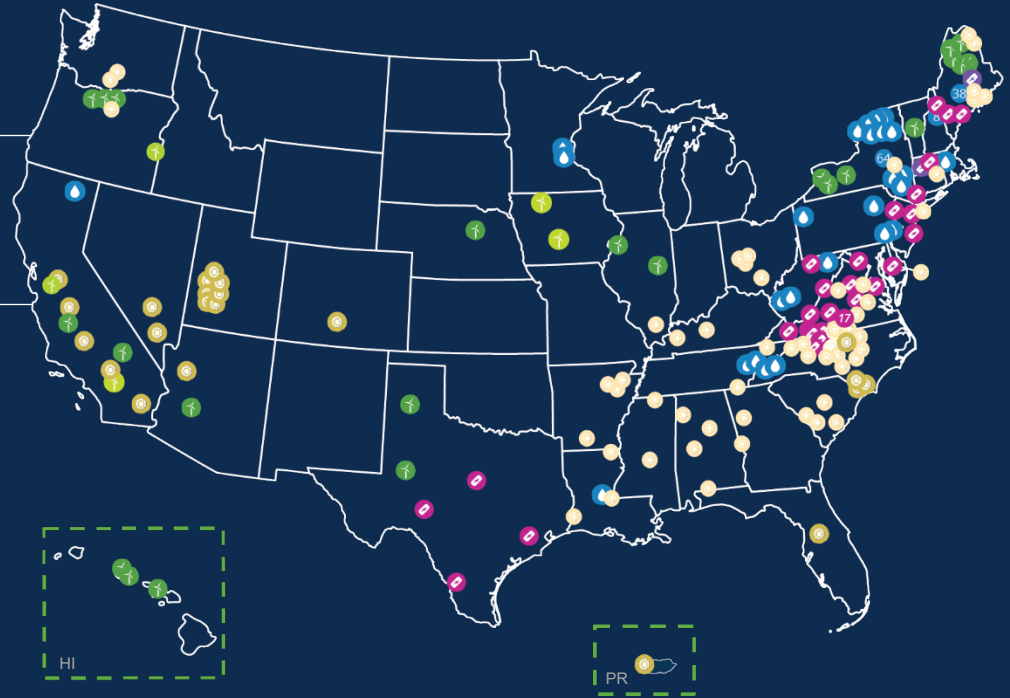
Data as of Q4 2021

Operating |    

8,080 MW

Development |   

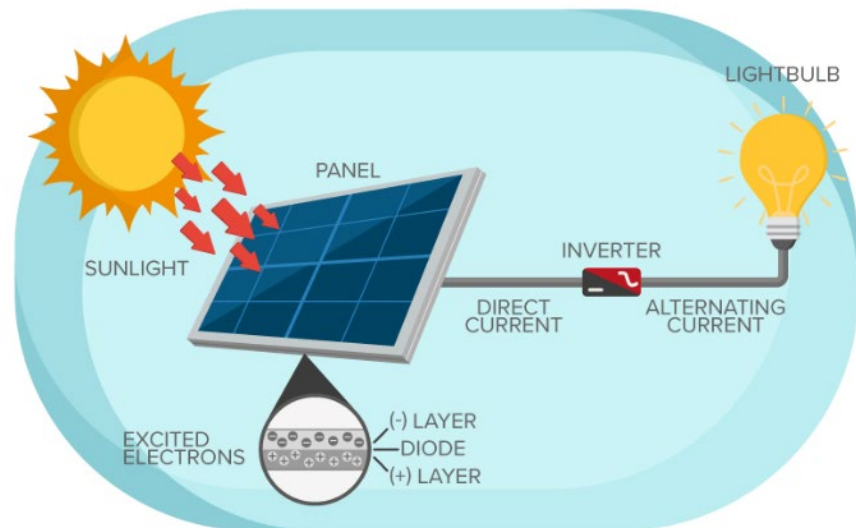
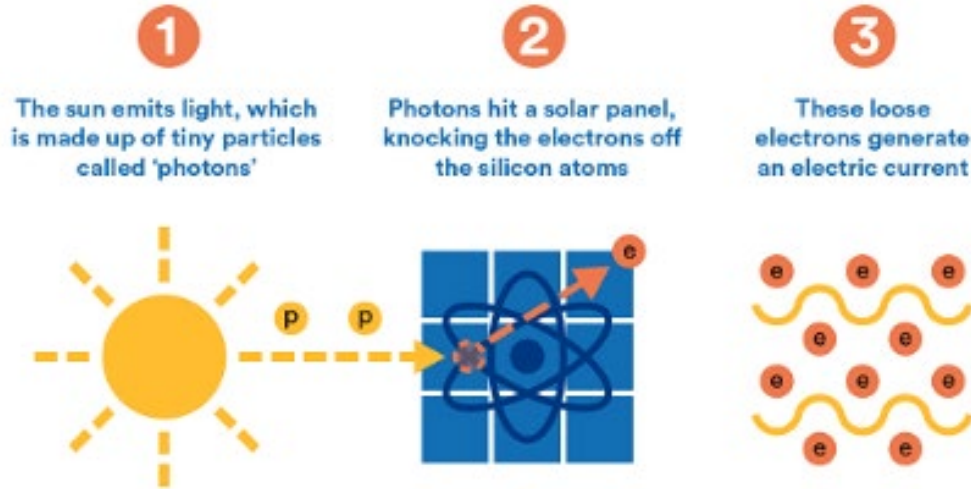
33,400 MW



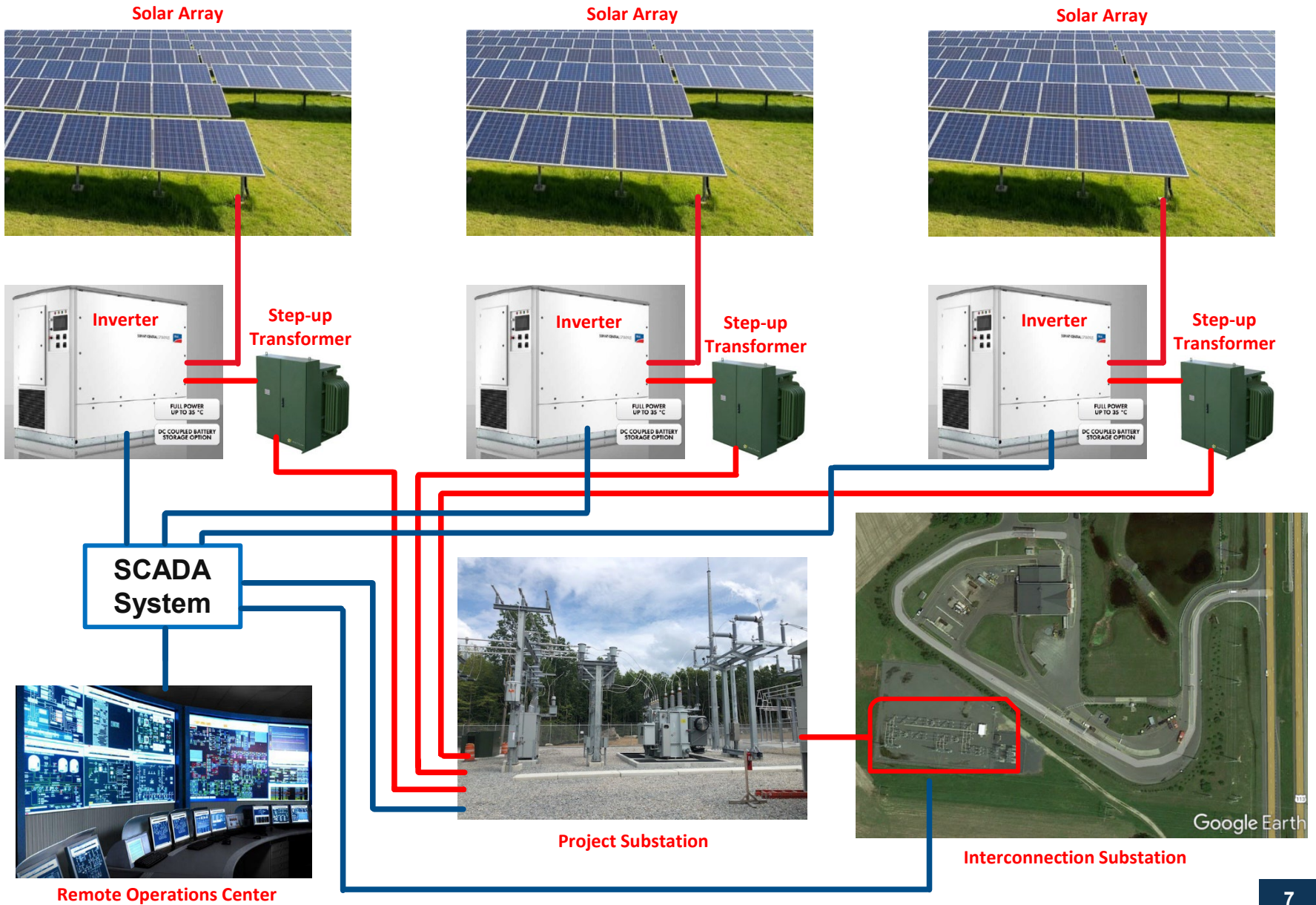
 140 Hydropower Facilities 3,150 MW	 5,400 DER Facilities* 1,130 MW	 23 Wind Farms 2,360 MW	 34 Solar Farms** 680 MW
 1 Pumped Storage Facility 630 MW  1 Battery Storage Facility 20 MW		 Multiple Facilities at Location	

- Operating and development totals include assets and projects by Brookfield Renewable companies Luminance and Urban Grid. Luminance assets and projects not reflected on the map.
- Operating total also includes solar assets owned through X-Elio (175 MW) and one cogeneration plant (105 MW)

The Photovoltaic Effect



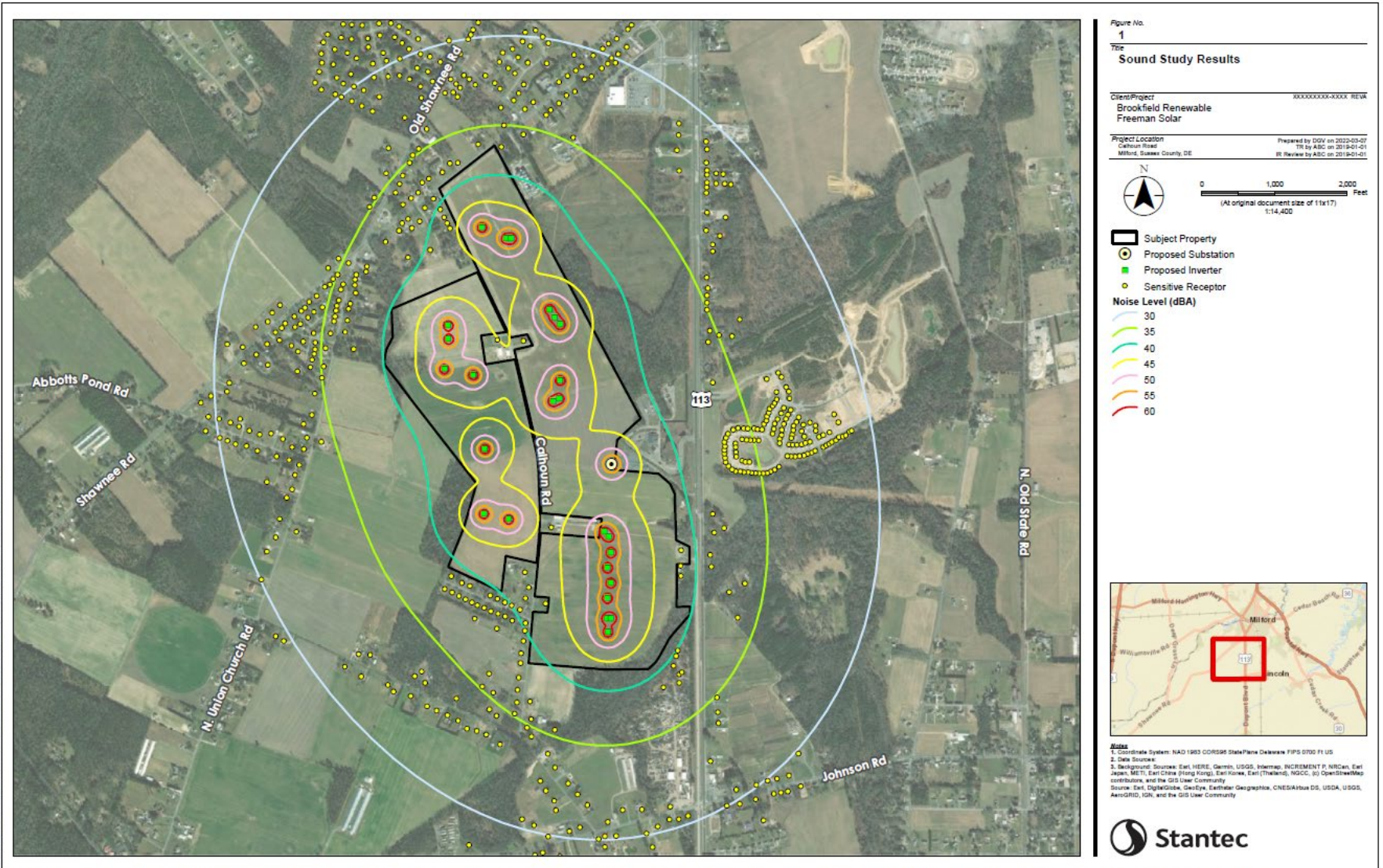
HOW A SOLAR PROJECT WORKS





PROJECT DETAILS:

- 75 Megawatt(MW) Nameplate Capacity
- 351 Acres of Calhoun Family Property
- Operating Life of +20 years
- ~150,000 MWh of Energy/Year
- 13,350 Average Delaware Homes Energy Usage
- Single Axis Tracking Solar Racking
- ~166,500 Solar Panels
- Full Decommissioning Is Developer Responsibility
- Land Returned To Owner In “Current Condition”
- Virtually No Noise
- Designed To Withstand Hurricane Force Winds
- Fully Insured By Project Owner



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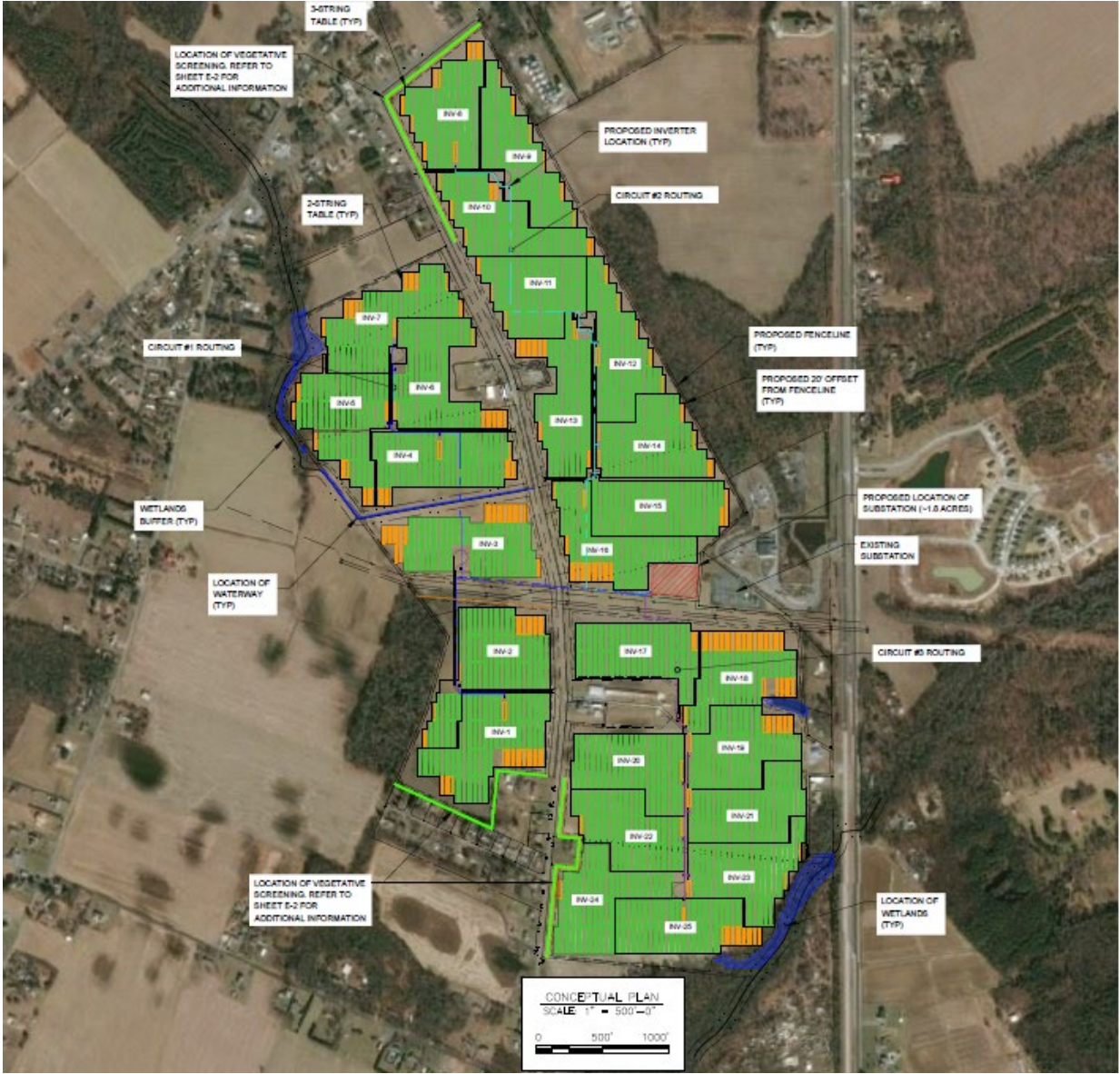


PHOTO SIMULATIONS

























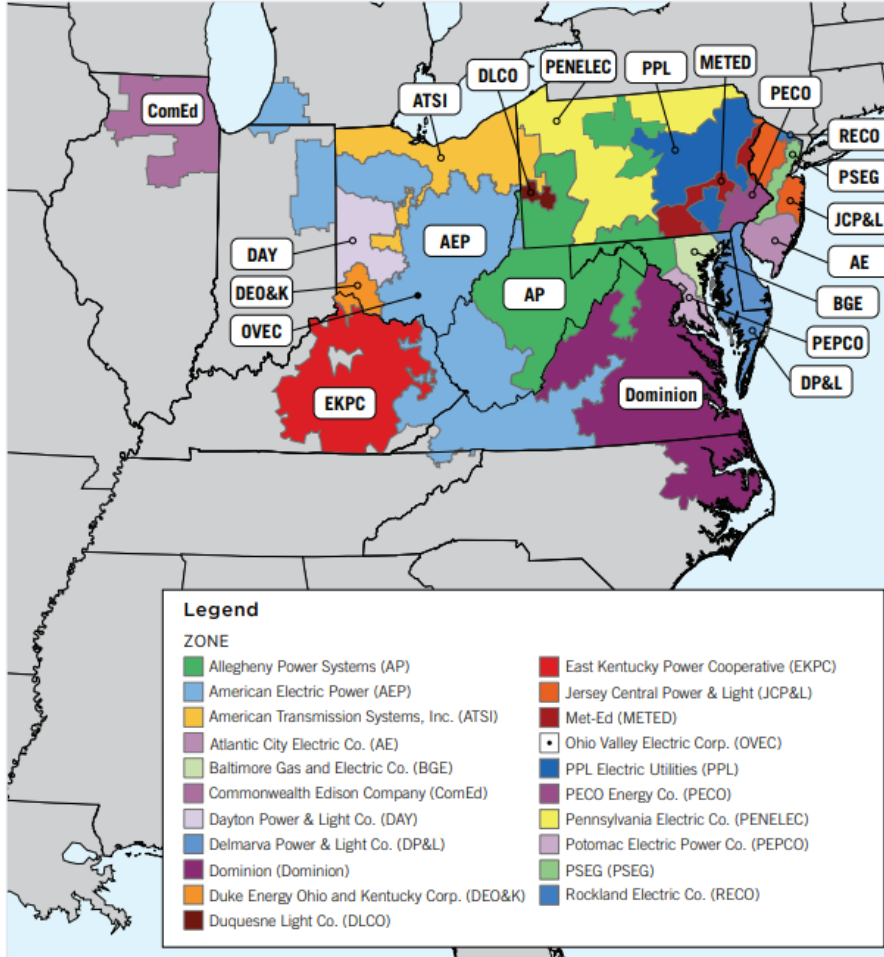






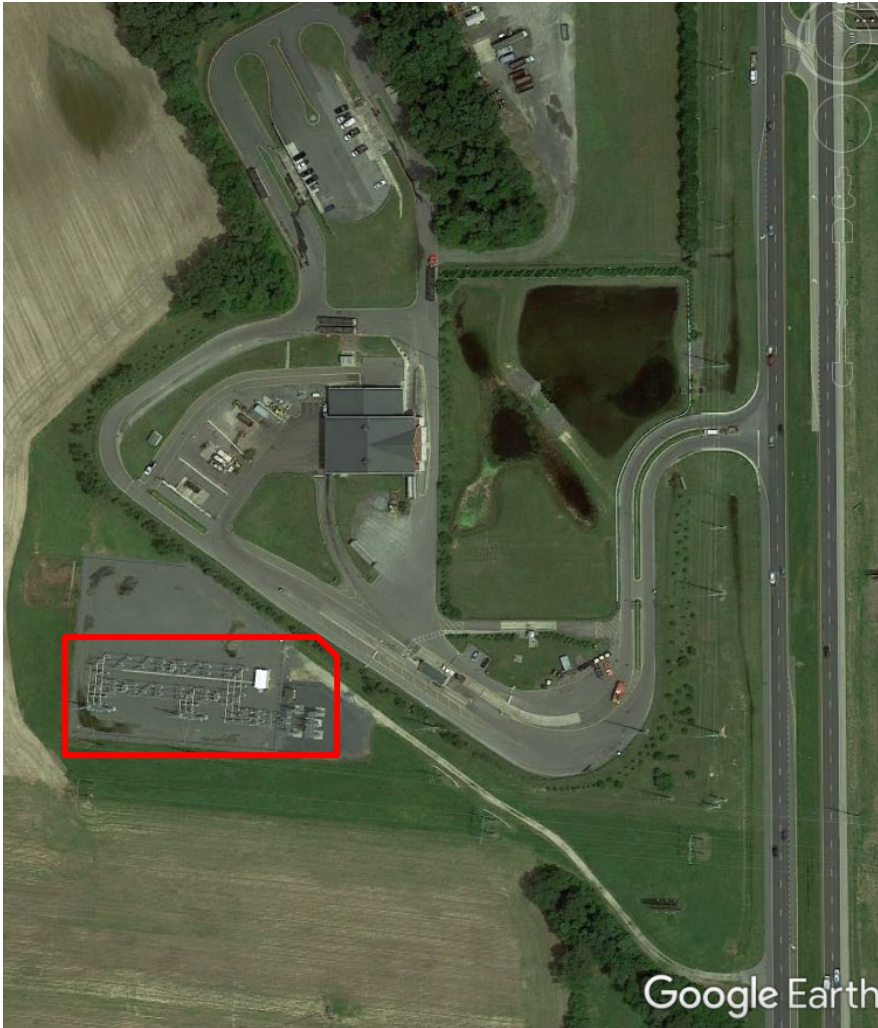


Large Generator Interconnection Agreement - PJM



- PJM is a regional transmission organization (RTO) also known as an independent service operator (ISO) that coordinates the movement, reliable supply and trading of wholesale electricity in all or part of 13 states and the District of Columbia.
- Authority is delegated from the Federal Energy Regulatory Commission (FERC).
- PJM is responsible for managing interconnection within its region for all FERC jurisdictional projects.
- Projects that interconnect at Transmission Voltage >69kV are typically FERC jurisdictional.
- Projects that interconnect to DP&L's Distribution System are not typically subject to the same regulations.
- PJM has a FERC approved Tariff that details the interconnection process.

Large Generator Interconnection Agreement - PJM



- Freeman Solar LLC submitted an interconnection request to PJM in the fall of 2020 and obtained queue position AG1-529
- Freeman Solar LLC proceeded through the interconnection process and obtained System Impact Study Results in September of 2021.
- Freeman Solar LLC entered into a Facilities Study Agreement in October of 2021 with an expected study delivery date of May 31st 2023
- PJM currently has a backlog of +2,000 projects and is experiencing significant delays.
- PJM is advancing a queue reform process through FERC so the current timing for study delivery for this project is unknown.



- Freeman Solar LLC is committed to being a good neighbor and long-term owner operator actively involved in the community.
- The construction phase of the project will be the most disruptive, but will last for less than a year, followed by +20 years of quiet operations.
- Studies demonstrate that solar projects do not negatively impact adjacent residential property values and, in many instances, help support healthy communities.
- At the end of its functional life the project will be fully decommissioned and the property will be returned to the landowners in its “current condition”.
- This project will produce enough clean, renewable energy to power approximately 13,350 homes every year for its operational life.

THANK YOU

FOR MORE INFORMATION

John Soininen

John.Soininen@brookfieldrenewbale.com

(617) 448-1318

TAB 4

ACOUSTIC REPORT

**Freeman Solar Project Operational
Pre-Construction Sound Report**



Prepared for:
Freeman Solar, LLC
200 Liberty Street, 14th Floor
New York, NY 10281

Prepared by:
Stantec Consulting Services Inc.
1165 Scheuring Road
De Pere, WI 54115

Project Number: 2028095052

March 18, 2022

FREEMAN SOLAR PROJECT OPERATIONAL PRE-CONSTRUCTION SOUND REPORT

March 18, 2022

Table of Contents

ABBREVIATIONS	ii
1.0 PROJECT DESCRIPTION	1
2.0 SOUND LEVEL DESCRIPTION	2
3.0 SOUND REGULATIONS	2
4.0 PREDICTED SOUND ANALYSIS METHODS	2
5.0 ASSESSMENT OF SOUND IMPACTS DURING OPERATION	3
6.0 SUMMARY	3

Figures

Figure 1 – Sound Study Modelling Results

Appendices

Appendix A – Manufacturer Specification Sheet – Inverters

Appendix B – Project Inverter and Substation Transformer Locations (UTM 18 Coordinates)

Appendix C – Receptor Locations (UTM 18 Coordinates) and Sound Model Results

FREEMAN SOLAR PROJECT OPERATIONAL PRE-CONSTRUCTION SOUND REPORT

March 18, 2022

Abbreviations

AC	alternating current
dB	decibel
dB(Z) or dBZ	decibel (unweighted)
dB(A) or dBA	decibel (A-weighted)
dB(C) or dBc	decibel (C-weighted)
DC	direct current
Hz	hertz
L_{eq}	equivalent continuous sound level
MW	megawatt
Project	Freeman Solar Project
PV	photovoltaic

FREEMAN SOLAR PROJECT OPERATIONAL PRE-CONSTRUCTION SOUND REPORT

March 18, 2022

1.0 Project Description

Freeman Solar, LLC (Freeman Solar) is proposing to develop and construct the Freeman Solar Project, a 75-megawatt (MW) utility-scale solar powered electric generating facility located in southern Sussex County, Delaware (Project). The Project will include photovoltaic (PV) solar panels mounted on a single-axis tracking system to maximize solar energy capture and electric generation of the array. The Project will be sited in an approximately 350-acre agricultural area approximately 1.6 miles southwest of the City of Milford, Delaware.

In addition to photovoltaic modules and single access trackers, the Project will include inverter stations, an electrical collection system, access roads, a Project substation, switchyard, and perimeter security fencing. Freeman Solar retained the services of Stantec Consulting Services Inc. (Stantec) to conduct a pre-construction sound study assessing the potential sound due to operation of the Project.

The solar arrays will be constructed on predominantly agricultural parcels roughly bounded by Dupont Boulevard/US Hwy 113 to the east, Fitzgeralds Road to the south, Old Shawnee Road to the west, and Shawnee Road/Seabury Avenue to the north. The electricity generated by the solar facility will be routed to an electrical substation located on the east-central portion of the Project area. The predominant land use of the area for the Project is agricultural land with surrounding residential development.

The two main sources of sound emissions from the operational Project will be the inverter stations and the substation transformer.

Solar panels produce direct current (DC) voltage which must be converted to alternating current (AC) voltage through a series of inverters. Solar energy facilities operate by converting solar radiation into electricity, meaning the Project will only produce electricity between sunrise and sunset. After sunset, the site no longer receives solar radiation, and the inverters will shift into stand-by mode.

Approximately 25 inverters will be installed in the Project area for the proposed 75-MW Project. The analysis performed for this report assumed the maximum sound pressure level of each inverter skid at the source is approximately 95.8 decibels, A-weighted (dBA). Manufacturer's specifications for an example inverter are provided in Appendix A.

The Project will include one main power transformer located within the substation footprint. The sound specification of the substation transformer indicates a sound pressure level of approximately 96.3 dBA at the source.¹

¹ National Electric Manufacturers Association, *NEMA TR 1-2013 Transformers, Step Voltage Regulators and Reactors*

FREEMAN SOLAR PROJECT OPERATIONAL PRE-CONSTRUCTION SOUND REPORT

March 18, 2022

The Project inverters and transformers are generally expected to run during the times that the solar array will be generating power (daylight hours). The equipment will be energized during the nighttime but will produce minimal sound.

2.0 Sound Level Description

Sound is caused by vibrations that generate waves of minute pressure fluctuations in the surrounding air. Sound levels are typically measured using a logarithmic decibel (dB) scale. Human hearing varies in sensitivity for different sound frequencies. The ear is most sensitive to sound frequencies between 800 and 8,000 hertz (Hz) and is least sensitive to sound frequencies below 400 Hz or above 12,500 Hz. Consequently, several different frequency weighting schemes have been used to approximate the way the human ear responds to sound levels. The decibel (A-weighted) or dBA scale is the most widely used for regulatory requirements, such as the Occupational Safety and Health Administration, because it discriminates against low frequencies, like the response of the human ear. The decibel (C-weighted) sound level (dBC) does not discriminate against low frequencies. Unweighted sound levels are generally reported as dB or dBZ.

For context, a soft whisper has a sound level of approximately 30 dBA, while a normal conversation is approximately 60 dBA. Common household appliances range in sound pressure levels from 40 dBA (refrigerator hum) to 60 dBA (air conditioner)².

3.0 Sound Regulations

The proposed Project is located in northern Sussex County, Delaware. No local sound ordinance or regulations were identified; however, Chapter 71, Title 7 of the Delaware Code provides a state-wide standard for "Noise Control and Abatement." Pursuant to Title 7 of the Delaware Code, the Department of Natural Resources and Environmental Control adopted "Regulations Governing the Control of Noise" which are found in the Delaware Administrative Code. The most applicable regulation is found in Title 7, Chapter 1149 which states that no person(s) shall operate, or cause to be operated, any stationary source of sound in such a manner as to create a 24-hour equivalent A-weighted sound level which exceeds the L_{eq} limits set forth for a residential property when measured at the point of complaint origination within the receiving property boundary. Therefore, sound from the operation of Project facilities cannot exceed the daytime (7 am – 10 pm) limit of 65 dBA and the nighttime (10 pm – 7 am) limit of 55 dBA, as set forth in the Regulations.

4.0 Predicted Sound Analysis Methods

Approximately 25 inverters will be installed within the Project area. A maximum sound power level of approximately 95.8 dBA at the source was utilized for this analysis, including a tonal penalty of 5 dBA. The inverters will convert electricity when the sun is shining; therefore, they will produce minimal sound when operating in stand-by mode between sunset and sunrise.

² Centers for Disease Control and Prevention. 2019. What Noises Cause Hearing Loss? https://www.cdc.gov/nceh/hearing_loss/what_noises_cause_hearing_loss.html

FREEMAN SOLAR PROJECT OPERATIONAL PRE-CONSTRUCTION SOUND REPORT

March 18, 2022

A conservative sound power level of 96.3 dBA at the source was utilized for the single-transformer substation. The substation transformer will be energized during nighttime hours but will produce minimal sound.

Sound attenuates between the source and the receptor due to a variety of factors, including but not limited to, atmospheric absorption, interaction with the ground, and attenuation due to vegetation and ground cover. Sound impact is also dependent on the distance between the sound source and each receptor. Locations of the inverters and substation are based on the current layout of the Project provided by Freeman Solar. Residences within approximately one-half mile of the Project facilities were identified and included in the analysis. Elevations for inverters, substation and receptors were calculated within the model, using the National Elevation Dataset acquired from the U.S. Geological Survey.

Sound results were calculated using sound modeling software and conservative ISO 9613-2 algorithms to estimate sound propagation and atmospheric absorption. The parameters and assumptions made in developing the estimates include the following:

- All inverters and the substation were considered as running at all times.
- An inverter sound power level of 95.8 dBA was used.
- A substation transformer sound power level of 96.3 dBA was used.
- A ground attenuation factor of 0.5 (on a scale of 0.0 representing hard ground to 1.0 representing porous ground) was modelled.
- Meteorological conditions used were conducive to sound propagation (10 degrees Celsius and 70 percent relative humidity).

5.0 Assessment of Sound Impacts during Operation

A sound analysis was completed for the inverter skids and the Project substation operating at full load. Coordinates (UTM Zone 18) of the inverter and transformer locations are included in Appendix B. Results of the sound analysis at receptors within approximately one-half mile of the Project are provided in tabular format in Appendix C. Sound contours are displayed in Figure 1; the figure displays the overall expected sound levels from within the solar array and substation, with a ground attenuation of 0.5. Results demonstrate that the maximum expected daytime sound from Project operation is 45.8 dBA at nearby residences. Nighttime noise will be substantially less, as all equipment will be energized, but operating in stand-by mode, only, and thereby producing minimal sound.

6.0 Summary

Sound analyses were completed for the Project, considering 25 inverters and one substation in full operation. The sound signature of the inverter is based on information provided by the equipment manufacturer for the example inverter. The maximum sound impact at a residence is predicted to be approximately 45.8 dBA. Sound due to Project operation is not expected to exceed 55 dBA at any non-participating residential property boundary. The facility will operate converting power during daytime hours, only. Sound from the inverters and substation will be minimal during the nighttime hours, due to equipment operating in an energized stand-by mode.

FREEMAN SOLAR PROJECT OPERATIONAL PRE-CONSTRUCTION SOUND REPORT

March 18, 2022

Figure

Sound Study Modelling Results



Figure No.

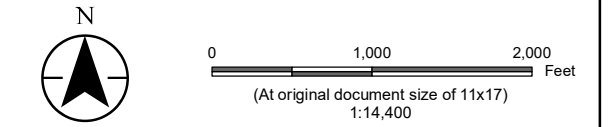
1

Title

Sound Study Results

Client/Project: Brookfield Renewable Freeman Solar
 XXXXXXXXXXX-XXXX REVA

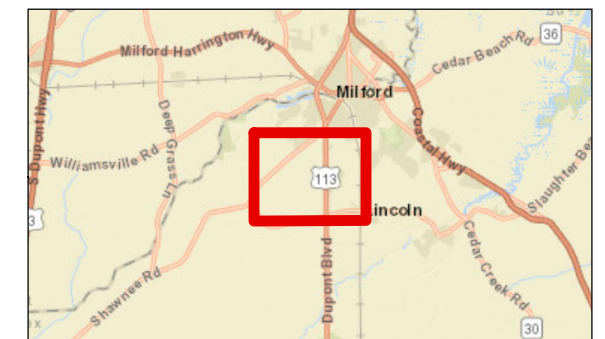
Project Location: Calhoun Road, Milford, Sussex County, DE
 Prepared by DGV on 2022-03-07
 TR by ABC on 2019-01-01
 IR Review by ABC on 2019-01-01



- Subject Property
- Proposed Substation
- Proposed Inverter
- Sensitive Receptor

Noise Level (dBA)

- 30
- 35
- 40
- 45
- 50
- 55
- 60



Notes
 1. Coordinate System: NAD 1983 CORS96 StatePlane Delaware FIPS 0700 Ft US
 2. Data Sources:
 3. Background: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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FREEMAN SOLAR PROJECT OPERATIONAL PRE-CONSTRUCTION SOUND REPORT

March 18, 2022

Appendix A

Manufacturer Specification Sheet – Inverters

SUNNY CENTRAL

2200 / 2475 / 2500-EV / 2750-EV / 3000-EV



SC-2200-10 / SC-2475-10 / SC-2500-EV-10 / SC-2750-EV-10 / SC-3000-EV-10



Optional now with
DC Coupled Storage Systems
for 1500V devices

Full power up to 35 °C

Efficient

- Up to 4 inverters can be transported in one standard shipping container
- Overdimensioning up to 225% is possible
- Full power at ambient temperatures of up to 35 °C

Robust

- Intelligent air cooling system OptiCool for efficient cooling
- Suitable for outdoor use in all climatic ambient conditions worldwide

Flexible

- Conforms to all known grid requirements worldwide
- Q on demand
- Available as a single device or turnkey solution, including medium-voltage block

Easy to Use

- Improved DC connection area
- Connection area for customer equipment
- Integrated voltage support for internal and external loads

SUNNY CENTRAL 2200 / 2475 / 2500-EV / 2750-EV / 3000-EV

The new Sunny Central: more power per cubic meter

With an output of up to 3000 kVA and system voltages of 1100 V DC or 1500 V DC, the SMA central inverter allows for more efficient system design and a reduction in specific costs for PV power plants. A separate voltage supply and additional space are available for the installation of customer equipment. True 1500 V technology and the intelligent cooling system OptiCool ensure smooth operation even in extreme ambient temperature as well as a long service life of 25 years.

SUNNY CENTRAL 1000 V

Technical Data	Sunny Central 2200	Sunny Central 2475
Input (DC)		
MPP voltage range V_{DC} (at 25 °C / at 35 °C / at 50 °C)	570 to 950 V / 800 V / 800 V	638 V to 950 V / 800 V / 800 V
Min. input voltage $V_{DC, min}$ / Start voltage $V_{DC, Start}$	545 V / 645 V	614 V / 714 V
Max. input voltage $V_{DC, max}$	1100 V	1100 V
Max. input current $I_{DC, max}$ (at 35 °C / at 50 °C)	3960 A / 3600 A	3960 A / 3600 A
Max. short-circuit current $I_{DC, sc}$	6400 A	6400 A
Number of DC inputs	24 double pole fused (32 single pole fused)	
Max. number of DC cables per DC input (for each polarity)	2 x 800 kcmil, 2 x 400 mm ²	
Integrated zone monitoring	○	
Available DC fuse sizes (per input)	200 A, 250 A, 315 A, 350 A, 400 A, 450 A, 500 A	
Output (AC)		
Nominal AC power at $\cos \varphi = 1$ (at 35 °C / at 50 °C)	2200 kVA / 2000 kVA	2475 kVA / 2250 kVA
Nominal AC power at $\cos \varphi = 0.8$ (at 35 °C / at 50 °C)	1760 kW / 1600 kW	1980 kW / 1800 kW
Nominal AC current $I_{AC, nom} = \text{Max. output current } I_{AC, max}$	3300 A	3300 A
Max. total harmonic distortion	< 3% at nominal power	
Nominal AC voltage / nominal AC voltage range ^{1) 8)}	385 V / 308 V to 462 V	434 V / 347 V to 521 V
AC power frequency / range	50 Hz / 47 Hz to 53 Hz 60 Hz / 57 Hz to 63 Hz	
Min. short-circuit ratio at the AC terminals ⁹⁾	> 2	
Power factor at rated power / displacement power factor adjustable ^{8) 10)}	● 1 / 0.8 overexcited to 0.8 underexcited ○ 1 / 0.0 overexcited to 0.0 underexcited	
Efficiency		
Max. efficiency ²⁾ / European efficiency ²⁾ / CEC efficiency ³⁾	98.6% / 98.4% / 98.0%	98.6% / 98.4% / 98.0%
Protective Devices		
Input-side disconnection point	DC load break switch	
Output-side disconnection point	AC circuit breaker	
DC overvoltage protection	Surge arrester, type I	
AC overvoltage protection (optional)	Surge arrester, class I	
Lightning protection (according to IEC 62305-1)	Lightning Protection Level III	
Ground-fault monitoring / remote ground-fault monitoring	○ / ○	
Insulation monitoring	○	
Degree of protection: electronics / air duct / connection area (as per IEC 60529)	IP65 / IP34 / IP34	
General Data		
Dimensions (W / H / D)	2780 / 2318 / 1588 mm (109.4 / 91.3 / 62.5 inch)	
Weight	< 3400 kg / < 7496 lb	
Self-consumption (max. ⁴⁾ / partial load ⁵⁾ / average ⁶⁾)	< 8100 W / < 1800 W / < 2000 W	
Self-consumption (standby)	< 300 W	
Internal auxiliary power supply	Integrated 8.4 kVA transformer	
Operating temperature range ⁸⁾	-25 °C to 60 °C / -13 °F to 140 °F	
Noise emission ⁷⁾	64.7 dB(A)	
Temperature range (standby)	-40 °C to 60 °C / -40 °F to 140 °F	
Temperature range (storage)	-40 °C to 70 °C / -40 °F to 158 °F	
Max. permissible value for relative humidity (condensing / non-condensing)	95% to 100% (2 month/year) / 0% to 95%	
Maximum operating altitude above MSL ⁸⁾ 1000 m / 2000 m ¹¹⁾ / 3000 m ¹¹⁾ / 4000 m ¹¹⁾	● / ○ / ○ / ○	
Fresh air consumption	6500 m ³ /h	
Features		
DC connection	Terminal lug on each input (without fuse)	
AC connection	With busbar system (three busbars, one per line conductor)	
Communication	Ethernet, Modbus Master, Modbus Slave	
Communication with SMA string monitor (transmission medium)	Modbus TCP / Ethernet (FO MM, Cat-5)	
Enclosure / roof color	RAL 9016 / RAL 7004	
Supply transformer for external loads	○ (2.5 kVA)	
Standards and directives complied with	CE, IEC / EN 62109-1, IEC / EN 62109-2, BDEW-MSRL, IEEE1547, UL 840 Cat. IV, Arrêté du 23/04/08	
EMC standards	IEC / EN 61000-6-2, FCC Part 15 Class A, Cisp11, DIN EN55011:2017	
Quality standards and directives complied with	VDI/VDE 2862 page 2, DIN EN ISO 9001	
● Standard features ○ Optional		
Type designation	SC-2200-10	SC-2475-10

1) At nominal AC voltage, nominal AC power decreases in the same proportion

2) Efficiency measured without internal power supply

3) Efficiency measured with internal power supply

4) Self-consumption at rated operation

5) Self-consumption at < 75% Pn at 25 °C

6) Self-consumption averaged out from 5% to 100% Pn at 25 °C

7) Sound pressure level at a distance of 10 m

8) Values apply only to inverters. Permissible values for SMA MV solutions from SMA can be found in the corresponding data sheets.

9) A short-circuit ratio of < 2 requires a special approval from SMA

10) Depending on the DC voltage

11) Earlier temperature-dependent de-rating and reduction of DC open-circuit voltage

SUNNY CENTRAL 1500 V

Technical Data	Sunny Central 2500-EV	Sunny Central 2750-EV	Sunny Central 3000-EV
Input (DC)			
MPP voltage range V_{DC} (at 25 °C / at 35 °C / at 50 °C)	850 V to 1425 V / 1200 V / 1200 V	875 V to 1425 V / 1200 V / 1200 V	956 V to 1425 V / 1200 V / 1200 V
Min. input voltage $V_{DC, min}$ / Start voltage $V_{DC, Start}$	778 V / 928 V	849 V / 999 V	927 V / 1077 V
Max. input voltage $V_{DC, max}$	1500 V	1500 V	1500 V
Max. input current $I_{DC, max}$ (at 35 °C / at 50 °C)	3200 A / 2956 A	3200 A / 2956 A	3200 A / 2970 A
Max. short-circuit current rating	6400 A	6400 A	6400 A
Number of DC inputs	24 double pole fused (32 single pole fused) for PV		
Number of DC inputs with optional DC coupled storage	18 double pole fused (36 single pole fused) for PV and 6 double pole fused for batteries		
Max. number of DC cables per DC input (for each polarity)	2 x 800 kcmil, 2 x 400 mm ²		
Integrated zone monitoring	○		
Available DC fuse sizes (per input)	200 A, 250 A, 315 A, 350 A, 400 A, 450 A, 500 A		
Output (AC)			
Nominal AC power at $\cos \phi = 1$ (at 35 °C / at 50 °C)	2500 kVA / 2250 kVA	2750 kVA / 2500 kVA	3000 kVA / 2700 kVA
Nominal AC power at $\cos \phi = 0.8$ (at 35 °C / at 50 °C)	2000 kW / 1800 kW	2200 kW / 2000 kW	2400 kW / 2160 kW
Nominal AC current $I_{AC, nom} = \text{Max. output current } I_{AC, max}$	2624 A	2646 A	2646 A
Max. total harmonic distortion	< 3% at nominal power	< 3% at nominal power	< 3% at nominal power
Nominal AC voltage / nominal AC voltage range ^{1) 8)}	550 V / 440 V to 660 V	600 V / 480 V to 720 V	655 V / 524 V to 721 V ⁹⁾
AC power frequency	50 Hz / 47 Hz to 53 Hz 60 Hz / 57 Hz to 63 Hz		
Min. short-circuit ratio at the AC terminals ¹⁰⁾	> 2		
Power factor at rated power / displacement power factor adjustable ^{8) 11)}	● 1 / 0.8 overexcited to 0.8 underexcited ○ 1 / 0.0 overexcited to 0.0 underexcited		
Efficiency			
Max. efficiency ²⁾ / European efficiency ²⁾ / CEC efficiency ³⁾	98.6% / 98.3% / 98.0%	98.7% / 98.5% / 98.5%	98.8% / 98.6% / 98.5%
Protective Devices			
Input-side disconnection point	DC load-break switch		
Output-side disconnection point	AC circuit breaker		
DC overvoltage protection	Surge arrester, type I & II		
AC overvoltage protection (optional)	Surge arrester, class I & II		
Lightning protection (according to IEC 62305-1)	Lightning Protection Level III		
Ground-fault monitoring / remote ground-fault monitoring	○ / ○		
Insulation monitoring	○		
Degree of protection: electronics / air duct / connection area (as per IEC 60529)	IP65 / IP34 / IP34		
General Data			
Dimensions (W / H / D)	2780 / 2318 / 1588 mm (109.4 / 91.3 / 62.5 inch)		
Weight	< 3400 kg / < 7496 lb		
Self-consumption (max. ⁴⁾ / partial load ⁵⁾ / average ⁶⁾	< 8100 W / < 1800 W / < 2000 W		
Self-consumption (standby)	< 370 W		
Internal auxiliary power supply	Integrated 8.4 kVA transformer		
Operating temperature range ⁶⁾	-25 to 60 °C / -13 to 140 °F		
Noise emission ⁷⁾	67.8 dB(A)		
Temperature range (standby)	-40 to 60 °C / -40 to 140 °F		
Temperature range (storage)	-40 to 70 °C / -40 to 158 °F		
Max. permissible value for relative humidity (condensing / non-condensing)	95% to 100% (2 month / year) / 0% to 95%		
Maximum operating altitude above MSL ⁸⁾ 1000 m / 2000 m ¹²⁾ / 3000 m ¹²⁾	● / ○ / -	● / ○ / -	● / ○ / -
Fresh air consumption	6500 m ³ /h		
Features			
DC connection	Terminal lug on each input (without fuse)		
AC connection	With busbar system (three busbars, one per line conductor)		
Communication	Ethernet, Modbus Master, Modbus Slave		
Communication with SMA string monitor (transmission medium)	Modbus TCP / Ethernet (FO MM, Cat-5)		
Enclosure / roof color	RAL 9016 / RAL 7004		
Supply transformer for external loads	○ (2.5 kVA)		
Standards and directives complied with	CE, IEC / EN 62109-1, IEC / EN 62109-2, BDEW-MSRL, IEEE1547, Arrêté du 23/04/08		
EMC standards	EN55011:2017, IEC/EN 61000-6-2, FCC Part 15 Class A		
Quality standards and directives complied with	VDI/VDE 2862 page 2, DIN EN ISO 9001		
● Standard features ○ Optional – not available			
Type designation	SC-2500-EV-10	SC-2750-EV-10	SC-3000-EV-10

1) At nominal AC voltage, nominal AC power decreases in the same proportion

2) Efficiency measured without internal power supply

3) Efficiency measured with internal power supply

4) Self-consumption at rated operation

5) Self-consumption at < 75% Pn at 25 °C

6) Self-consumption averaged out from 5% to 100% Pn at 35 °C

7) Sound pressure level at a distance of 10 m

8) Values apply only to inverters. Permissible values for SMA MV solutions from SMA can be found in the corresponding data sheets.

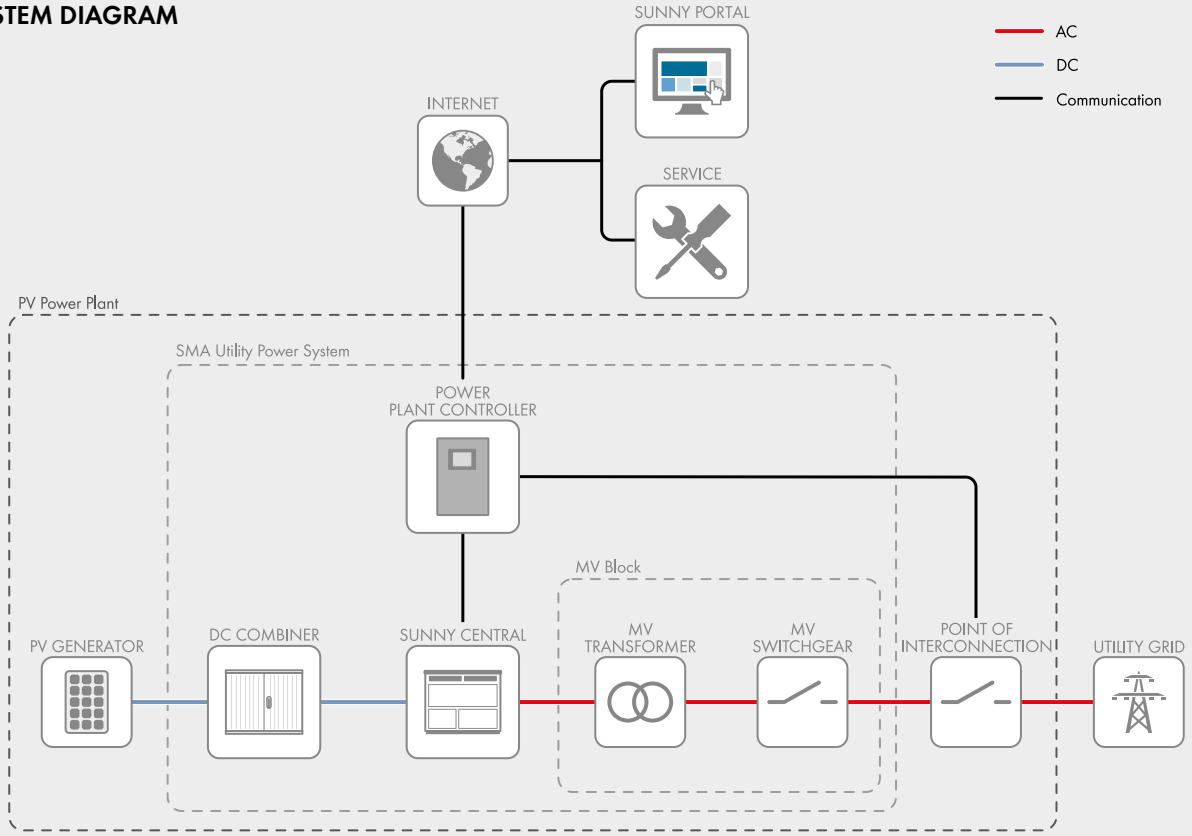
9) AC voltage range can be extended to 753V for 50Hz grids only (option „Aux power supply: external“ must be selected, option “housekeeping” not combinable).

10) A short-circuit ratio of < 2 requires a special approval from SMA

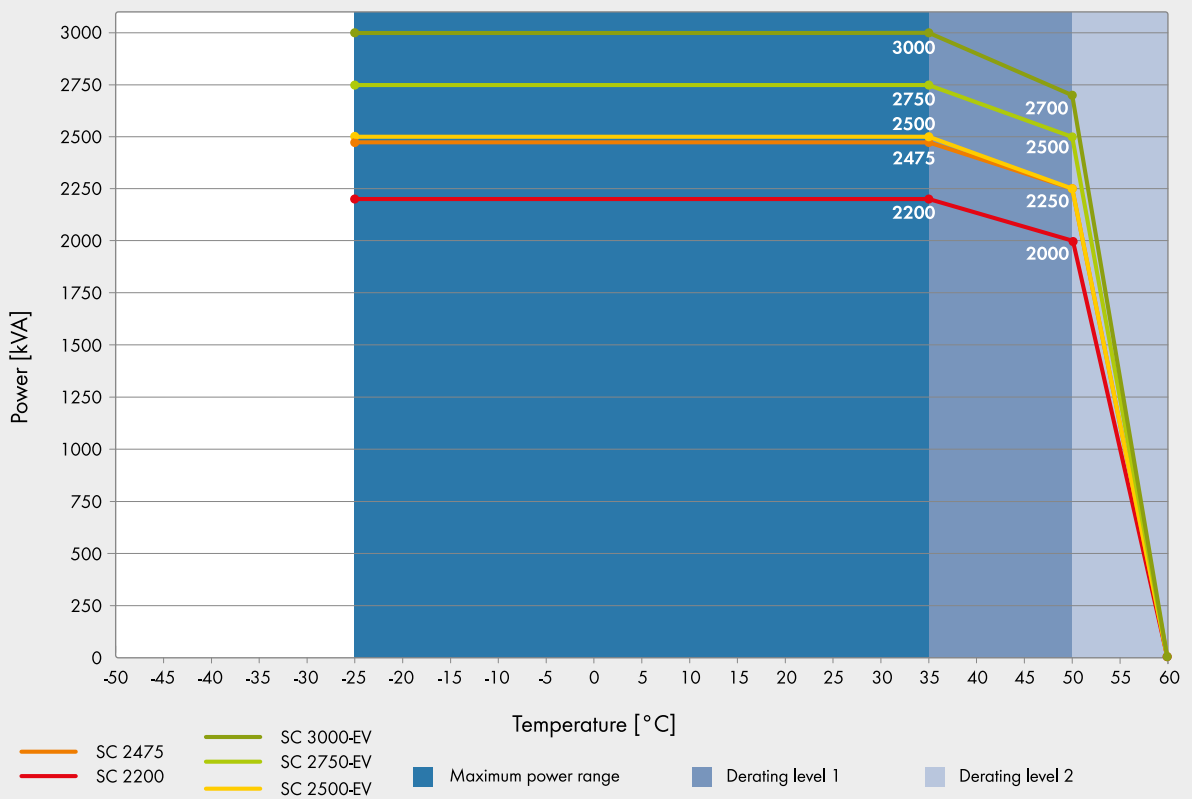
11) Depending on the DC voltage

12) Available as a special version, earlier temperature-dependent de-rating and reduction of DC open-circuit voltage

SYSTEM DIAGRAM



TEMPERATURE BEHAVIOR (at $\cos \phi = 1$ and installation altitudes of up to 1,000 m*)



*) For the temperature behavior for installations at above 1,000 m see the Technical Information document.

FREEMAN SOLAR PROJECT OPERATIONAL PRE-CONSTRUCTION SOUND REPORT

March 18, 2022

Appendix C

Receptor Locations (UTM 18 Coordinates) and Sound Model Results

Appendix B
Freeman Solar Project - Inverter and Substation Transformer Locations

Inverter ID	X (UTM 18)	Y (UTM 18)
I-01	461,498	4,303,353
I-02	461,497	4,303,225
I-03	461,497	4,303,141
I-04	461,499	4,303,084
I-05	461,513	4,303,142
I-06	461,513	4,303,289
I-07	461,514	4,303,416
I-08	461,504	4,303,483
I-09	461,488	4,303,502
I-10	461,274	4,304,049
I-11	461,299	4,304,061
I-12	461,305	4,304,136
I-13	461,306	4,304,370
I-14	461,261	4,304,434
I-15	461,283	4,304,399
I-16	461,083	4,304,731
I-17	461,103	4,304,731
I-18	460,980	4,304,777
I-19	461,086	4,303,557
I-20	460,983	4,303,580
I-21	460,820	4,304,186
I-22	460,837	4,304,368
I-23	460,838	4,304,311
I-24	460,941	4,304,161
I-25	460,988	4,303,852

Substation ID	X (UTM 18)	Y (UTM 18)
SS-01	461,518	4,303,787

FREEMAN SOLAR PROJECT OPERATIONAL PRE-CONSTRUCTION SOUND REPORT

March 18, 2022

Appendix B

Project Inverter Locations (UTM 18 Coordinates)

Appendix C Freeman Solar Project - Receptor Locations and Total Sound Results

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-001	459,801	4,304,050	29.5
R-002	459,843	4,304,078	29.9
R-003	459,831	4,303,991	29.7
R-004	459,879	4,303,981	30.1
R-005	459,910	4,304,096	30.5
R-006	459,920	4,304,132	30.6
R-007	459,982	4,304,213	31.2
R-008	460,081	4,304,205	32.2
R-009	460,034	4,304,250	31.7
R-010	459,913	4,304,293	30.5
R-011	459,978	4,304,281	31.1
R-012	460,032	4,304,365	31.6
R-013	460,080	4,304,294	32.2
R-014	460,082	4,304,388	32.1
R-015	460,101	4,304,424	32.2
R-016	460,115	4,304,342	32.5
R-017	460,140	4,304,360	32.8
R-018	460,155	4,304,379	32.9
R-019	460,131	4,304,310	32.7
R-020	460,181	4,304,286	33.4
R-021	460,208	4,304,262	33.7
R-022	460,230	4,304,304	34
R-023	460,281	4,304,298	34.7
R-024	460,275	4,304,338	34.5
R-025	460,197	4,304,364	33.5
R-026	460,133	4,304,456	32.5
R-027	460,194	4,304,409	33.3
R-028	460,218	4,304,377	33.7
R-029	460,251	4,304,404	34.1
R-030	460,223	4,304,431	33.6
R-031	460,238	4,304,446	33.8
R-032	460,276	4,304,426	34.3
R-033	460,257	4,304,470	34.0
R-034	460,287	4,304,494	34.3
R-035	460,312	4,304,447	34.8
R-036	460,360	4,304,388	35.7
R-037	460,416	4,304,391	36.6
R-038	460,364	4,304,409	35.7
R-039	460,322	4,304,531	34.6
R-040	460,368	4,304,433	35.6
R-041	460,371	4,304,452	35.6
R-042	460,421	4,304,440	36.5

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-043	460,429	4,304,462	36.5
R-044	460,380	4,304,475	35.7
R-045	460,388	4,304,520	35.6
R-046	460,451	4,304,505	36.6
R-047	460,447	4,304,538	36.3
R-048	460,449	4,304,562	36.2
R-049	460,453	4,304,582	36.2
R-050	460,398	4,304,542	35.6
R-051	460,343	4,304,541	34.8
R-052	460,358	4,304,564	34.9
R-053	460,376	4,304,582	35.1
R-054	460,337	4,304,611	34.4
R-055	460,495	4,304,594	36.7
R-056	460,499	4,304,616	36.6
R-057	460,422	4,304,630	35.4
R-058	460,379	4,304,649	34.7
R-059	460,496	4,304,669	36.2
R-060	460,671	4,304,654	39.0
R-061	460,764	4,304,684	40.5
R-062	460,633	4,304,765	37.5
R-063	460,578	4,304,719	37.0
R-064	460,687	4,304,776	38.3
R-065	460,511	4,304,865	34.9
R-066	460,634	4,304,765	37.5
R-067	460,647	4,304,797	37.4
R-068	460,576	4,304,835	36.0
R-069	460,672	4,304,814	37.7
R-070	460,721	4,304,804	38.8
R-071	460,531	4,304,903	34.8
R-072	460,620	4,304,923	35.8
R-073	460,651	4,304,874	36.8
R-074	460,847	4,304,774	43.2
R-075	460,834	4,304,796	42.4
R-076	460,823	4,304,819	41.6
R-077	460,807	4,304,853	40.6
R-078	460,742	4,304,860	38.7
R-079	460,778	4,304,897	39.0
R-080	460,684	4,304,900	37.1
R-081	460,714	4,304,924	37.3
R-082	460,732	4,304,966	37.0
R-083	460,759	4,304,981	37.2
R-084	460,581	4,305,005	34.5

Appendix C Freeman Solar Project - Receptor Locations and Total Sound Results

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-085	460,637	4,304,960	35.7
R-086	460,651	4,304,995	35.5
R-087	460,678	4,305,049	35.1
R-088	460,816	4,305,008	37.6
R-089	460,847	4,305,046	37.2
R-090	460,882	4,305,048	37.6
R-091	460,591	4,305,110	33.5
R-092	460,693	4,305,080	34.9
R-093	460,718	4,305,108	34.8
R-094	460,751	4,305,190	33.9
R-095	460,661	4,305,237	32.7
R-096	460,967	4,305,124	36.4
R-097	461,159	4,304,982	39.8
R-098	461,075	4,305,203	35.0
R-099	461,063	4,305,113	36.8
R-100	461,156	4,305,165	35.6
R-101	461,118	4,305,241	34.3
R-102	461,062	4,305,278	33.8
R-103	461,163	4,305,271	33.8
R-104	461,197	4,305,300	33.3
R-105	461,116	4,305,308	33.3
R-106	461,137	4,305,337	32.9
R-107	461,252	4,305,246	33.9
R-108	461,270	4,305,267	33.5
R-109	461,305	4,305,295	33.0
R-110	461,267	4,305,359	32.3
R-111	461,330	4,305,083	35.9
R-112	461,364	4,305,151	34.6
R-113	460,829	4,305,340	32.4
R-114	460,863	4,305,342	32.5
R-115	460,881	4,305,324	32.8
R-116	460,893	4,305,361	32.3
R-117	460,875	4,305,377	32.1
R-118	460,852	4,305,397	31.7
R-119	460,956	4,305,373	32.3
R-120	460,931	4,305,396	32.0
R-121	460,998	4,305,412	31.9
R-122	461,037	4,305,380	32.3
R-123	460,908	4,305,413	31.7
R-124	460,909	4,305,413	31.7
R-125	461,158	4,305,373	32.4
R-126	460,726	4,305,367	31.6

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-127	461,254	4,305,462	31.1
R-128	461,059	4,305,357	32.6
R-129	461,122	4,305,420	31.8
R-130	461,093	4,305,443	31.5
R-131	461,058	4,305,469	31.2
R-132	461,071	4,305,507	30.8
R-133	461,112	4,305,522	30.6
R-134	461,135	4,305,487	31.0
R-135	461,187	4,305,533	30.4
R-136	461,262	4,305,546	30.2
R-137	461,175	4,305,465	31.2
R-138	461,155	4,305,553	30.2
R-139	460,730	4,305,319	32.2
R-140	460,894	4,305,502	30.6
R-141	460,776	4,305,389	31.6
R-142	460,680	4,305,397	31.0
R-143	460,758	4,305,429	31.0
R-144	460,810	4,305,470	30.8
R-145	460,639	4,305,413	30.7
R-146	460,766	4,305,492	30.4
R-147	460,712	4,305,445	30.7
R-148	460,727	4,305,503	30.2
R-149	460,679	4,305,524	29.8
R-150	460,641	4,305,483	30.0
R-151	460,585	4,305,476	29.8
R-152	460,525	4,305,264	31.4
R-153	460,480	4,305,286	30.9
R-154	460,553	4,305,325	31.1
R-155	460,489	4,305,352	30.4
R-156	460,439	4,305,307	30.5
R-157	460,447	4,305,368	30.0
R-158	460,394	4,305,324	30.1
R-159	460,403	4,305,381	29.7
R-160	460,370	4,305,337	29.8
R-161	460,435	4,305,421	29.5
R-162	460,592	4,305,410	30.5
R-163	460,532	4,305,405	30.2
R-164	460,527	4,305,464	29.6
R-165	460,459	4,305,486	29.1
R-166	460,310	4,305,356	29.3
R-167	460,285	4,305,386	28.9
R-168	460,302	4,305,431	28.7

Appendix C Freeman Solar Project - Receptor Locations and Total Sound Results

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-169	460,314	4,305,469	28.5
R-170	460,312	4,305,506	28.2
R-171	460,320	4,305,553	27.9
R-172	460,338	4,305,587	27.8
R-173	460,375	4,305,405	29.3
R-174	460,363	4,305,461	28.8
R-175	460,367	4,305,524	28.4
R-176	460,421	4,305,508	28.8
R-177	460,395	4,305,573	28.1
R-178	460,404	4,305,629	27.8
R-179	460,441	4,305,627	27.9
R-180	460,438	4,305,567	28.4
R-181	460,484	4,305,624	28.1
R-182	460,507	4,305,568	28.7
R-183	460,510	4,305,534	29.0
R-184	460,571	4,305,508	29.5
R-185	460,557	4,305,582	28.8
R-186	460,553	4,305,632	28.3
R-187	460,603	4,305,633	28.5
R-188	460,619	4,305,573	29.1
R-189	460,650	4,305,551	29.4
R-190	460,638	4,305,618	28.8
R-191	460,676	4,305,594	29.1
R-192	460,525	4,305,702	27.7
R-193	460,845	4,305,559	29.9
R-194	460,717	4,305,566	29.5
R-195	460,926	4,305,563	30.0
R-196	460,936	4,305,582	29.9
R-197	460,947	4,305,604	29.7
R-198	460,969	4,305,634	29.4
R-199	460,985	4,305,666	29.1
R-200	461,004	4,305,704	28.7
R-201	461,040	4,305,690	28.9
R-202	461,024	4,305,710	28.7
R-203	460,969	4,305,776	28.1
R-204	461,238	4,305,573	30.0
R-205	461,209	4,305,599	29.7
R-206	461,165	4,305,591	29.8
R-207	460,975	4,305,835	27.5
R-208	460,995	4,305,867	27.3
R-209	461,087	4,305,865	27.3
R-210	461,102	4,305,899	27.1

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-211	461,337	4,305,328	32.4
R-212	461,305	4,305,383	31.9
R-213	461,372	4,305,343	32.1
R-214	461,342	4,305,410	31.5
R-215	461,412	4,305,394	31.4
R-216	461,442	4,305,406	31.1
R-217	461,377	4,305,431	31.1
R-218	461,550	4,305,312	31.6
R-219	461,588	4,305,418	30.4
R-220	461,647	4,305,462	29.7
R-221	461,401	4,305,448	30.9
R-222	461,369	4,305,497	30.5
R-223	461,449	4,305,494	30.2
R-224	461,484	4,305,441	30.6
R-225	461,510	4,305,459	30.3
R-226	461,542	4,305,463	30.2
R-227	461,526	4,305,483	30.1
R-228	461,554	4,305,499	29.8
R-229	461,489	4,305,522	29.8
R-230	461,513	4,305,543	29.6
R-231	461,547	4,305,563	29.3
R-232	461,595	4,305,603	28.8
R-233	461,629	4,305,514	29.4
R-234	461,590	4,305,529	29.4
R-235	461,610	4,305,620	28.6
R-236	460,406	4,304,342	36.5
R-237	460,346	4,304,336	35.6
R-238	460,441	4,304,271	37.3
R-239	460,280	4,304,271	34.7
R-240	460,276	4,304,252	34.6
R-241	460,324	4,304,276	35.3
R-242	460,315	4,304,199	35.2
R-243	460,268	4,304,227	34.5
R-244	460,260	4,304,196	34.4
R-245	460,308	4,304,152	35.0
R-246	460,205	4,304,179	33.7
R-247	460,279	4,304,086	34.5
R-248	460,305	4,303,885	34.3
R-249	460,230	4,303,959	33.7
R-250	460,245	4,303,901	33.7
R-251	460,266	4,303,997	34.2
R-252	460,211	4,303,787	33.0

Appendix C Freeman Solar Project - Receptor Locations and Total Sound Results

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-253	460,169	4,303,808	32.6
R-254	460,231	4,303,854	33.4
R-255	460,144	4,303,897	32.6
R-256	460,182	4,303,862	32.9
R-257	460,117	4,303,825	32.1
R-258	460,095	4,303,919	32.1
R-259	460,047	4,303,916	31.6
R-260	460,038	4,303,848	31.4
R-261	460,003	4,303,932	31.2
R-262	459,991	4,303,868	31.0
R-263	459,946	4,303,876	30.6
R-264	459,911	4,303,890	30.3
R-265	459,961	4,303,949	30.9
R-266	459,965	4,303,981	30.9
R-267	459,925	4,303,967	30.5
R-268	459,880	4,303,902	30.1
R-269	459,820	4,303,932	29.6
R-270	460,194	4,303,746	32.7
R-271	460,181	4,303,686	32.4
R-272	460,159	4,303,651	32.1
R-273	460,076	4,303,718	31.5
R-274	460,128	4,303,563	31.5
R-275	460,199	4,303,508	32.0
R-276	460,112	4,303,486	31.1
R-277	460,074	4,303,426	30.6
R-278	460,051	4,303,309	30.0
R-279	460,143	4,303,052	29.7
R-280	460,110	4,303,072	29.6
R-281	460,399	4,302,943	31.1
R-282	460,457	4,302,996	31.8
R-283	460,505	4,302,992	32.2
R-284	460,466	4,302,902	31.3
R-285	460,579	4,302,867	31.9
R-286	460,601	4,302,839	31.9
R-287	460,674	4,302,820	32.3
R-288	460,691	4,302,903	33.1
R-289	460,720	4,302,922	33.5
R-290	460,735	4,302,875	33.2
R-291	460,742	4,302,776	32.5
R-292	460,781	4,302,759	32.7
R-293	460,826	4,302,739	32.8
R-294	460,864	4,302,808	33.7

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-295	460,872	4,302,716	33.0
R-296	460,973	4,302,857	35.2
R-297	461,019	4,302,832	35.3
R-298	461,001	4,302,911	36.0
R-299	461,002	4,302,763	34.5
R-300	461,033	4,302,735	34.4
R-301	461,108	4,302,744	35.1
R-302	461,126	4,302,895	37.2
R-303	461,121	4,302,843	36.5
R-304	461,118	4,302,791	35.8
R-305	461,173	4,302,795	36.4
R-306	461,178	4,302,721	35.4
R-307	461,158	4,302,685	34.8
R-308	461,179	4,302,648	34.4
R-309	461,276	4,302,676	35.5
R-310	461,247	4,302,576	33.9
R-311	461,047	4,302,616	33.2
R-312	460,989	4,302,656	33.3
R-313	460,949	4,302,672	33.1
R-314	460,908	4,302,683	32.9
R-315	461,277	4,302,517	33.2
R-316	461,214	4,302,462	32.3
R-317	461,236	4,302,422	31.9
R-318	461,272	4,302,379	31.5
R-319	461,137	4,302,303	30.4
R-320	461,331	4,302,452	32.5
R-321	461,279	4,302,340	31.1
R-322	461,370	4,302,405	32.0
R-323	461,411	4,302,361	31.6
R-324	460,914	4,302,197	28.7
R-325	461,187	4,302,276	30.3
R-326	461,335	4,302,252	30.3
R-327	460,979	4,301,979	27.2
R-328	461,222	4,302,162	29.2
R-329	461,191	4,302,152	29.1
R-330	461,294	4,302,146	29.2
R-331	461,246	4,302,231	29.9
R-332	461,379	4,302,267	30.5
R-333	461,497	4,302,290	30.8
R-334	461,484	4,302,231	30.1
R-335	461,483	4,302,185	29.7
R-336	461,457	4,302,218	30.0

Appendix C Freeman Solar Project - Receptor Locations and Total Sound Results

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-337	461,530	4,302,231	30.1
R-338	461,559	4,302,339	31.3
R-339	461,639	4,302,341	31.2
R-340	461,657	4,302,241	30.1
R-341	461,704	4,302,269	30.3
R-342	461,683	4,302,183	29.5
R-343	461,696	4,302,138	29.0
R-344	461,754	4,302,298	30.4
R-345	461,794	4,302,299	30.3
R-346	461,832	4,302,314	30.3
R-347	461,761	4,302,481	32.4
R-348	461,797	4,302,535	32.9
R-349	461,815	4,302,479	32.2
R-350	461,757	4,302,352	31.0
R-351	461,583	4,302,505	33.3
R-352	461,807	4,302,398	31.3
R-353	461,994	4,302,355	30.0
R-354	462,049	4,302,363	29.8
R-355	462,147	4,302,293	28.7
R-356	462,116	4,302,381	29.6
R-357	462,192	4,302,404	29.3
R-358	462,220	4,302,409	29.2
R-359	462,249	4,302,415	29.1
R-360	462,304	4,302,435	28.9
R-361	462,294	4,302,572	29.8
R-362	462,118	4,302,442	30.1
R-363	462,165	4,302,459	29.9
R-364	462,205	4,302,468	29.7
R-365	462,255	4,302,480	29.5
R-366	462,034	4,302,423	30.4
R-367	461,957	4,302,423	30.8
R-368	461,927	4,302,541	32.2
R-369	461,933	4,302,475	31.5
R-370	461,960	4,302,701	33.6
R-371	461,959	4,302,746	34.1
R-372	461,956	4,302,808	34.8
R-373	461,798	4,302,870	37.7
R-374	461,732	4,302,851	38.3
R-375	461,773	4,302,940	39.2
R-376	461,798	4,302,905	38.2
R-377	461,808	4,302,914	38.2
R-378	461,784	4,302,982	39.7

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-379	461,791	4,303,005	39.8
R-380	462,044	4,303,141	36.2
R-381	462,008	4,303,248	37.2
R-382	462,074	4,303,284	36.2
R-383	461,806	4,303,317	41.5
R-384	461,806	4,303,358	41.5
R-385	461,933	4,303,354	38.7
R-386	461,929	4,303,404	38.8
R-387	461,808	4,303,425	41.4
R-388	461,946	4,303,497	38.3
R-389	461,987	4,303,516	37.6
R-390	461,940	4,303,575	38.3
R-391	462,220	4,303,771	34.0
R-392	462,201	4,303,759	34.3
R-393	462,184	4,303,751	34.5
R-394	462,169	4,303,745	34.7
R-395	462,153	4,303,743	34.9
R-396	462,136	4,303,743	35.1
R-397	462,120	4,303,744	35.3
R-398	462,104	4,303,746	35.5
R-399	462,089	4,303,748	35.7
R-400	462,072	4,303,748	35.9
R-401	462,057	4,303,752	36.1
R-402	462,038	4,303,753	36.3
R-403	462,021	4,303,761	36.5
R-404	462,008	4,303,775	36.7
R-405	461,995	4,303,792	36.8
R-406	461,993	4,303,810	36.8
R-407	461,990	4,303,827	36.7
R-408	461,991	4,303,843	36.7
R-409	461,993	4,303,857	36.6
R-410	461,991	4,303,875	36.6
R-411	461,998	4,303,892	36.4
R-412	462,006	4,303,909	36.2
R-413	462,135	4,303,881	34.7
R-414	462,115	4,303,883	35.0
R-415	462,099	4,303,883	35.2
R-416	462,084	4,303,884	35.3
R-417	462,066	4,303,887	35.6
R-418	462,037	4,303,869	36.0
R-419	462,038	4,303,853	36.0
R-420	462,039	4,303,833	36.1

Appendix C Freeman Solar Project - Receptor Locations and Total Sound Results

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-421	462,040	4,303,815	36.1
R-422	462,065	4,303,798	35.8
R-423	462,078	4,303,793	35.7
R-424	462,095	4,303,792	35.5
R-425	462,230	4,303,904	33.6
R-426	462,222	4,303,886	33.7
R-427	462,223	4,303,869	33.8
R-428	462,275	4,303,905	33.1
R-429	462,272	4,303,890	33.2
R-430	462,261	4,303,863	33.4
R-431	462,277	4,303,863	33.2
R-432	462,294	4,303,862	33.0
R-433	462,314	4,303,864	32.8
R-434	462,330	4,303,870	32.7
R-435	462,349	4,303,876	32.5
R-436	462,325	4,303,897	32.7
R-437	462,356	4,303,829	32.5
R-438	462,338	4,303,824	32.7
R-439	462,323	4,303,818	32.8
R-440	462,305	4,303,815	33.0
R-441	462,287	4,303,813	33.2
R-442	462,270	4,303,814	33.4
R-443	462,254	4,303,815	33.6
R-444	462,028	4,303,927	35.9
R-445	462,048	4,303,934	35.6
R-446	462,072	4,303,933	35.3
R-447	462,089	4,303,931	35.1
R-448	462,115	4,303,932	34.8
R-449	462,130	4,303,929	34.7
R-450	462,149	4,303,928	34.4
R-451	462,156	4,303,951	34.3
R-452	462,166	4,303,964	34.1
R-453	462,170	4,303,983	34.1
R-454	462,177	4,303,997	33.9
R-455	462,181	4,304,013	33.8
R-456	462,194	4,304,024	33.7
R-457	462,203	4,304,037	33.5
R-458	462,211	4,304,052	33.4
R-459	462,210	4,304,082	33.3
R-460	462,262	4,304,085	32.8
R-461	462,265	4,304,056	32.9
R-462	462,240	4,304,017	33.2

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-463	462,228	4,303,994	33.4
R-464	462,214	4,303,970	33.6
R-465	462,202	4,303,952	33.8
R-466	462,198	4,303,930	33.9
R-467	462,194	4,303,909	34.0
R-468	462,269	4,304,008	33.0
R-469	462,258	4,303,989	33.1
R-470	462,249	4,303,971	33.3
R-471	462,240	4,303,950	33.4
R-472	462,231	4,303,926	33.6
R-473	462,279	4,303,924	33.1
R-474	462,281	4,303,942	33.0
R-475	462,294	4,303,958	32.8
R-476	462,302	4,303,978	32.7
R-477	462,322	4,303,946	32.6
R-478	462,314	4,303,919	32.7
R-479	462,349	4,303,955	32.3
R-480	462,372	4,303,942	32.1
R-481	462,374	4,303,921	32.1
R-482	462,387	4,303,895	32.1
R-483	462,404	4,303,903	31.9
R-484	462,431	4,303,914	31.6
R-485	462,467	4,303,956	31.2
R-486	462,451	4,303,990	31.3
R-487	462,371	4,303,837	32.3
R-488	462,404	4,303,851	32.0
R-489	462,417	4,303,859	31.8
R-490	462,430	4,303,866	31.7
R-491	462,441	4,303,874	31.6
R-492	462,457	4,303,881	31.4
R-493	462,470	4,303,894	31.3
R-494	462,487	4,303,896	31.1
R-495	462,499	4,303,901	31.0
R-496	462,514	4,303,916	30.8
R-497	462,524	4,303,921	30.7
R-498	462,251	4,304,104	32.9
R-499	462,231	4,304,146	32.9
R-500	462,218	4,304,163	33.0
R-501	462,168	4,304,138	33.6
R-502	461,694	4,303,893	41.6
R-503	461,943	4,304,124	36.1
R-504	462,024	4,304,318	34.4

Appendix C Freeman Solar Project - Receptor Locations and Total Sound Results

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-505	461,971	4,304,323	34.9
R-506	461,924	4,304,293	35.6
R-507	461,932	4,304,342	35.3
R-508	462,057	4,304,387	33.8
R-509	461,920	4,304,429	35.0
R-510	461,920	4,304,458	34.9
R-511	461,921	4,304,489	34.7
R-512	461,924	4,304,520	34.5
R-513	461,920	4,304,563	34.4
R-514	461,946	4,304,672	33.5
R-515	461,946	4,304,701	33.3
R-516	461,976	4,304,738	32.8
R-517	461,918	4,304,760	33.2
R-518	461,922	4,304,835	32.7
R-519	462,000	4,304,814	32.2
R-520	461,921	4,304,864	32.5
R-521	461,920	4,304,917	32.2
R-522	461,921	4,304,941	32.0
R-523	461,922	4,304,961	31.9
R-524	461,962	4,304,956	31.6
R-525	461,997	4,304,955	31.3
R-526	462,022	4,304,952	31.2
R-527	461,991	4,304,995	31.1
R-528	461,961	4,304,998	31.3
R-529	461,923	4,304,994	31.7
R-530	461,923	4,305,012	31.5
R-531	461,921	4,305,043	31.4
R-532	461,807	4,305,009	32.5
R-533	461,798	4,305,096	31.9
R-534	461,920	4,305,132	30.7
R-535	461,923	4,305,100	30.9
R-536	461,806	4,305,160	31.3
R-537	461,807	4,305,208	30.9
R-538	461,133	4,302,956	38.1
R-539	461,136	4,302,996	38.6
R-540	461,146	4,303,047	39.4
R-541	461,036	4,303,100	38.2
R-542	460,943	4,303,142	37.6
R-543	461,153	4,303,091	40.0
R-544	461,155	4,303,123	40.3
R-545	461,101	4,303,132	39.5
R-546	461,070	4,303,152	39.2

Receptor ID	X (UTM 18)	Y (UTM 18)	Expected Sound (dBA)
R-547	461,041	4,303,162	38.9
R-548	461,011	4,303,174	38.7
R-549	460,982	4,303,187	38.5
R-550	460,955	4,303,198	38.3
R-551	460,931	4,303,210	38.1
R-552	460,905	4,303,222	38.0
R-553	460,877	4,303,237	37.9
R-554	460,848	4,303,252	37.7
R-555	460,818	4,303,266	37.5
R-556	460,845	4,303,320	38.6
R-557	461,008	4,303,239	39.4
R-558	461,038	4,303,224	39.5
R-559	461,068	4,303,210	39.7
R-560	461,098	4,303,196	40.0
R-561	461,132	4,303,178	40.4
R-562	461,239	4,303,204	42.8
R-563	461,169	4,303,271	41.7
R-564	460,923	4,303,278	38.9
R-565	460,890	4,303,293	38.7
R-566	461,156	4,303,227	41.2
R-567	461,154	4,303,334	42.2
R-568	461,266	4,303,522	44.4
R-569	461,151	4,304,302	45.8
R-570	461,043	4,304,306	45.0

TAB 5

IMPACT STUDY REPORT



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REAL ESTATE ADJACENT PROPERTY VALUE IMPACT REPORT:

**Site Specific Analysis Addendum Report:
For the Proposed 75 MW Freeman Solar Project
To Be Located in Cedar Creek Hundred, Sussex County,
Delaware**

Prepared For:

Mr. John Soininen
Senior Director, Asset Development
Brookfield Renewables, US
200 Liberty Street, 14th Floor
New York, NY 10006

Submitted By:

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Patricia L. McGarr, MAI, CRE, FRICS
Andrew R. Lines, MAI
Sonia K. Singh, MAI

April 11, 2022

LETTER OF TRANSMITTAL

April 11, 2022

Mr. John Soininen
Senior Director, Asset Development
Brookfield Renewable US
200 Liberty Street, 14th Floor
New York, NY 10006

SUBJECT: Addendum - Property Value Impact Report
Proposed 75 MW Freeman Solar Project
Cedar Creek Hundred, Sussex County, Delaware

Dear Mr. Soininen:

This letter and associated report are considered an Addendum to the previously prepared property value impact report with an effective date of April 1, 2022 (“Primary Report”). All facts and circumstances surrounding the property value impact report that analyzes existing solar farms and any effect on adjacent property values are contained within the cited Primary Report. This Addendum cannot be properly understood without the cited Primary Report and should be reviewed in unison.

Per the client’s request, we have researched the proposed solar farm on land located in Cedar Creek Hundred, in Sussex County, Delaware. The proposed solar use, called Freeman Solar, will have a total capacity of 75 MW AC (megawatts alternating current).

The purpose of this consulting assignment is to determine whether the proximity of the proposed renewable energy use (solar farm) will result in impact on adjacent property values.

The intended use of our opinions and conclusions is to assist the client in addressing local concerns and to address the required criteria for obtaining approvals for the solar project. We have not been asked to value any specific property, and we have not done so.

The client and intended user for the assignment is Freeman Solar, LLC. Additional intended users of our findings include Brookfield Renewable US, and Sussex County, Delaware Planning and Zoning Commission officials. The report may be used only for the aforementioned purpose and may not be distributed without the written consent of CohnReznick LLP (“CohnReznick”).

The assignment is intended to conform to the Uniform Standards of Professional Appraisal Practice (USPAP), the Code of Professional Ethics and Standards of Professional Appraisal Practice of the Appraisal Institute as well as applicable state appraisal regulations.

Based on the analysis in the accompanying report, and subject to the definitions, assumptions, and limiting conditions expressed in the report, our findings follow below.

FINDINGS

- I. **Academic Studies:** CohnReznick reviewed and analyzed published academic studies that specifically analyzed the impact of solar facilities on nearby property values. These studies include multiple regression analyses of hundreds and thousands of sales transactions, and opinion surveys, for both residential homes and farmland properties in rural communities, which concluded existing solar facilities have had no negative impact on adjacent property values.

Peer Authored Studies: CohnReznick also reviewed studies prepared by other real estate valuation experts that specifically analyzed the impact of solar facilities on nearby property values. These studies found little to no measurable or consistent difference in value between the Test Area Sales and the Control Area Sales attributed to the proximity to existing solar farms and noted that solar energy uses are generally considered a compatible use.

- II. **CohnReznick Studies:** Further, CohnReznick has performed 27 studies in over 16 states, of both residential and agricultural property, in which we have determined that the existing solar facilities have not caused any consistent and measurable negative impact on property values.

For this Project, we have included 10 of our studies in the Primary Report which are most similar to the subject in terms of general location and size, summarized as follows:

CohnReznick - Existing Solar Farms Studied					
#	Solar Farm	County	State	MW AC	Acreage
1	North Star Solar	Chisago	MN	100.00	±1,000
2	Indy Solar III	Marion	IN	8.60	129.04
3	Dougherty Solar	Dougherty	GA	120.00	1,037.42
4	Miami-Dade Solar Energy Center	Miami-Dade	FL	74.50	465.61
5	Barefoot Bay Solar Energy Center	Brevard	FL	74.50	504.75
6	Innovative Solar 42	Bladen & Cumberland	NC	71.00	413.99
7	Rutherford Farm	Rutherford	NC	61.00	488.84
8	Elm City Solar	Wilson	NC	40.00	354.00
9	Woodland Solar	Isle of Wight	VA	19.00	211.12
10	DTE Lapeer Solar	LaPeer	MI	48.28	365.68

It is noted that proximity to the solar farms has not deterred sales of nearby agricultural land and residential single-family homes, nor has it deterred the development of new single-family homes on adjacent land.

The Primary Report also includes four “Before and After” analyses, in which sales that occurred prior to the announcement and subsequent development of the solar farm project were compared with sales that occurred after completion of the solar farm project, for both adjoining and non-adjoining properties. No measurable impact on property values was demonstrated.

- III. **Market Participant Interviews:** Our conclusions also consider interviews with over 45 County and Township Assessors, who have at least one solar farm in their jurisdiction, and determined that solar farms have not negatively affected adjacent property values.

To give us additional insight as to how the market evaluates farmland and single-family homes with views of solar farms, we interviewed numerous real estate brokers and other market participants who were party to actual sales of property adjacent to solar; these professionals also confirmed that solar farms did not diminish property values or marketability in the areas they conducted their business.

CONCLUSION

Considering all of the preceding, the data indicates that solar facilities do not have a negative impact on adjacent property values.

If you have any questions or comments, please contact the undersigned. Thank you for the opportunity to be of service.

Very truly yours,

CohnReznick LLP



Andrew R. Lines, MAI
Principal - Valuation Advisory Services
Certified General Real Estate Appraiser
Delaware License No. X5-0011520
Expires 7/28/2022



Patricia L. McGarr, MAI, CRE, FRICS
National Director - Valuation Advisory Services



Sonia K. Singh, MAI
Director – Valuation Advisory Services

TABLE OF CONTENTS

SCOPE OF WORK 7

 CLIENT 7

 INTENDED USERS..... 7

 INTENDED USE 7

 PURPOSE..... 7

 DEFINITION OF VALUE..... 7

 EFFECTIVE DATE & DATE OF REPORT 8

 PRIOR SERVICES 8

 INSPECTION..... 8

IDENTIFICATION AND DESCRIPTION OF THE PROPOSED PROJECT 9

OVERVIEW OF THE SURROUNDING AREA OF THE PROJECT 12

 TRAFFIC PATTERNS AND CONNECTIVITY 13

 DEMOGRAPHIC FACTORS 13

 CONCLUSION..... 13

DELAWARE SOIL PRODUCTIVITY AND VALUE TRENDS 14

 NCCPI PRODUCTIVITY INDEX 14

 AREA VALUE TRENDS - CROPLAND 17

 AREA VALUE TRENDS – RESIDENTIAL HOMES 18

LOCAL LAND DEVELOPMENT TRENDS 20

SUMMARY AND FINAL CONCLUSIONS..... 21

CERTIFICATION 23

ASSUMPTIONS AND LIMITING CONDITIONS..... 25

ADDENDUM A: APPRAISER QUALIFICATIONS 29

Disclaimer: This report is limited to the intended use, intended users (Freeman Solar, LLC, Brookfield Renewable US, and Sussex County, Delaware Planning and Zoning Commission officials as it relates to the evaluation of the Project), and purpose stated within. No part of this report may otherwise be reproduced or modified in any form, or by any means, without the prior written permission of CohnReznick LLP.

SCOPE OF WORK

CLIENT

The client for this assignment is Freeman Solar, LLC.

INTENDED USERS

Freeman Solar, LLC, Brookfield Renewable US, as well as Sussex County Planning and Zoning Commission officials; other intended users may include the client's legal and site development professionals.

INTENDED USE

The intended use of our findings and conclusions is to address certain criteria required for the granting of approvals for the proposed solar energy center use in Sussex County, Delaware. We have not been asked to value any specific property, and we have not done so. The report may be used only for the aforementioned purpose and may not be distributed without the written consent of CohnReznick LLP ("CohnReznick").

PURPOSE

The purpose of this consulting assignment is to determine whether proximity to the proposed solar facility will result in an impact on adjacent property values.

DEFINITION OF VALUE

This report utilizes Market Value as the appropriate premise of value. Market value is defined as:

"The most probable price which a property should bring in a competitive and open market under all conditions requisite to a fair sale, the buyer and seller each acting prudently and knowledgeably, and assuming the price is not affected by undue stimulus. Implicit in this definition are the consummation of a sale as of a specified date and the passing of title from seller to buyer under conditions whereby:

1. Buyer and seller are typically motivated;
2. Both parties are well informed or well advised, and acting in what they consider their own best interests;
3. A reasonable time is allowed for exposure in the open market.
4. Payment is made in terms of cash in U.S. dollars or in terms of financial arrangements comparable thereto; and

The price represents the normal consideration for the property sold unaffected by special or creative financing or sales concessions granted by anyone associated with the sale."¹

¹ Code of Federal Regulations, Title 12, Chapter I, Part 34.42[h]

EFFECTIVE DATE & DATE OF REPORT

April 11, 2022 (Paired sale analyses contained within each study in the Primary Report are periodically updated.)

PRIOR SERVICES

USPAP requires appraisers to disclose to the client any services they have provided in connection with the subject property in the prior three years, including valuation, consulting, property management, brokerage, or any other services.

We have not previously evaluated the Project site.

INSPECTION

Patricia L. McGarr, MAI, CRE, FRICS, Andrew R. Lines, MAI, and Sonia K. Singh, MAI have viewed the exterior of all comparable data referenced in this report in person, via photographs, or aerial imagery.

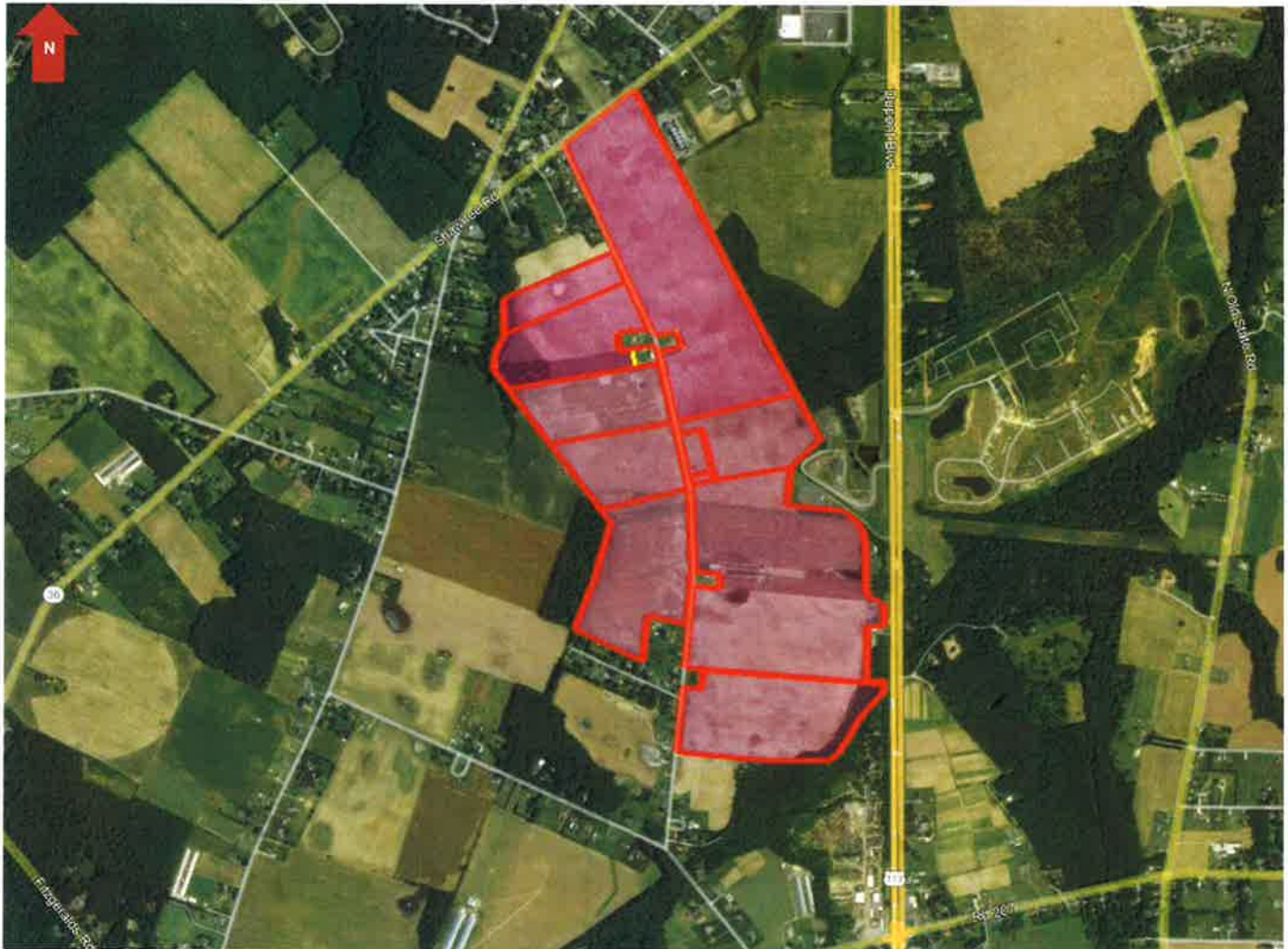
IDENTIFICATION AND DESCRIPTION OF THE PROPOSED PROJECT

The proposed Freeman Solar Project (“Freeman Solar” or “the Project”) is to be 75 MW and will be located in the Cedar Creek Hundred in Sussex County, Delaware.

Based on development plans for a typical solar farm, the proposed 75-megawatt solar energy center project would generally consist of single-axis tracker mounted solar photovoltaic arrays, electrical inverters, underground and above-ground collection lines, security fencing, safety lighting, and other auxiliary infrastructure. The project will take approximately 9 to 12 months to construct and is expected to become operational in 2026. Vegetation in the solar array area and the on-site equipment will be maintained periodically.

Setbacks of 50-feet will be implemented around all property boundaries near inverters and solar panels. Landscape screening will also be implemented where necessary in areas around the solar project. Vegetative buffers of up to 15 foot wide strips at various locations around the solar site will be planted with trees and shrubs planned to be at least eight feet in height within five years. The electric generation facility will be surrounded by six-foot agricultural security fencing, which meets local and National Electrical Code (NEC) Article 100 requirements.

The Project will be situated on approximately ten leased land parcels utilized for agricultural purposes and is illustrated on the following page by the red outlined polygons. The Project parcels are bordered by agricultural farmland and rural homesteads.

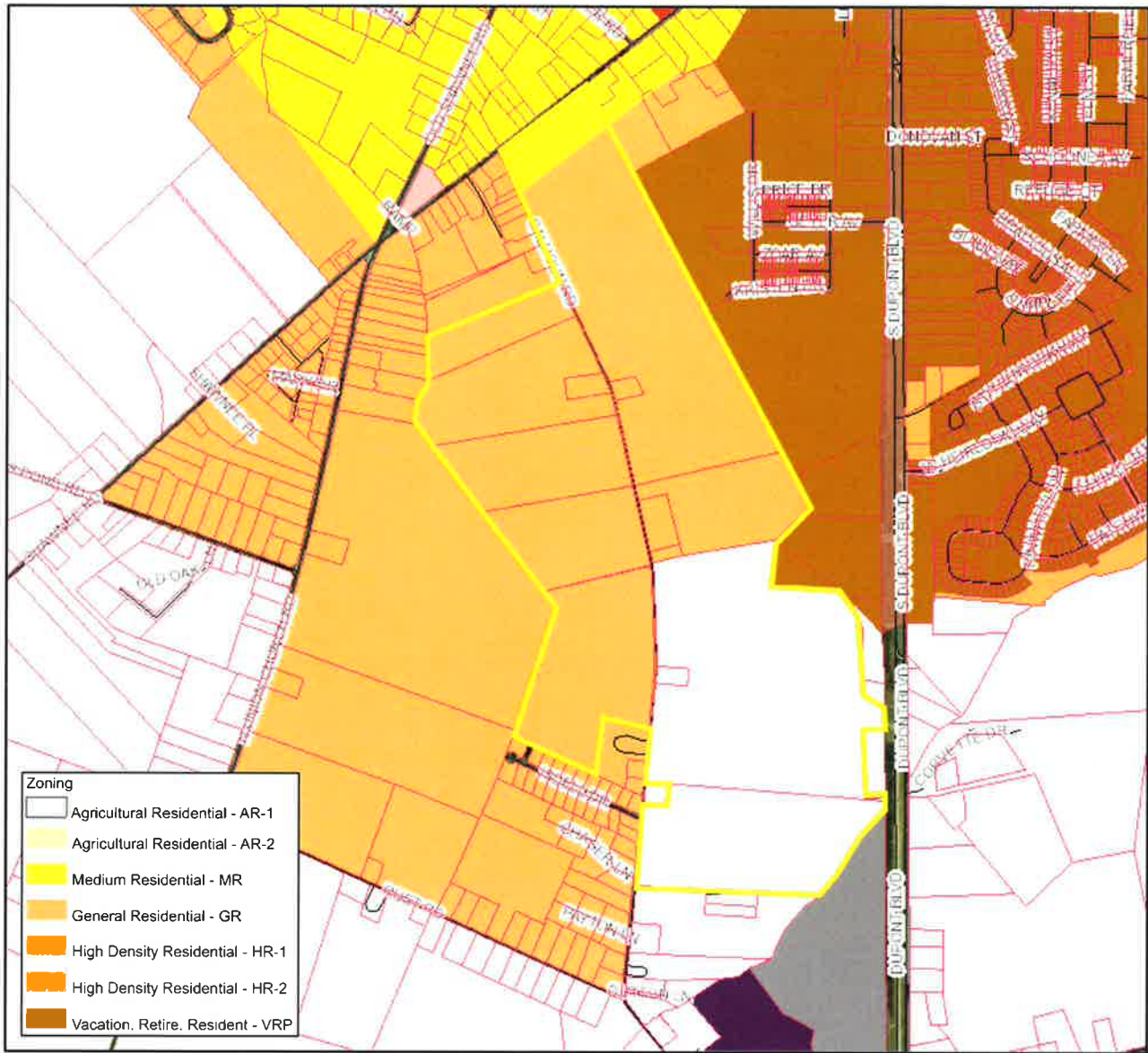


Proposed Freeman Solar Project boundaries outlined in red, solar array area outlined in red
Imagery provided by Brookfield Renewable US

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ZONING REGULATIONS

The Project is to be located on land with three zoning classifications: General Residential (GR), Agricultural Residential-1 (AR-1), and Medium Residential (MR), under the jurisdiction of Sussex County, Delaware. The zoning map below shows the proposed solar site outlined in yellow. The predominant zoning of the site is GR, followed by AR-1, with a small portion on the north side, along Shawnee Road, zoned MR. According to the Sussex County Future Land Use map from 2019, the proposed site area is to remain as currently zoned.

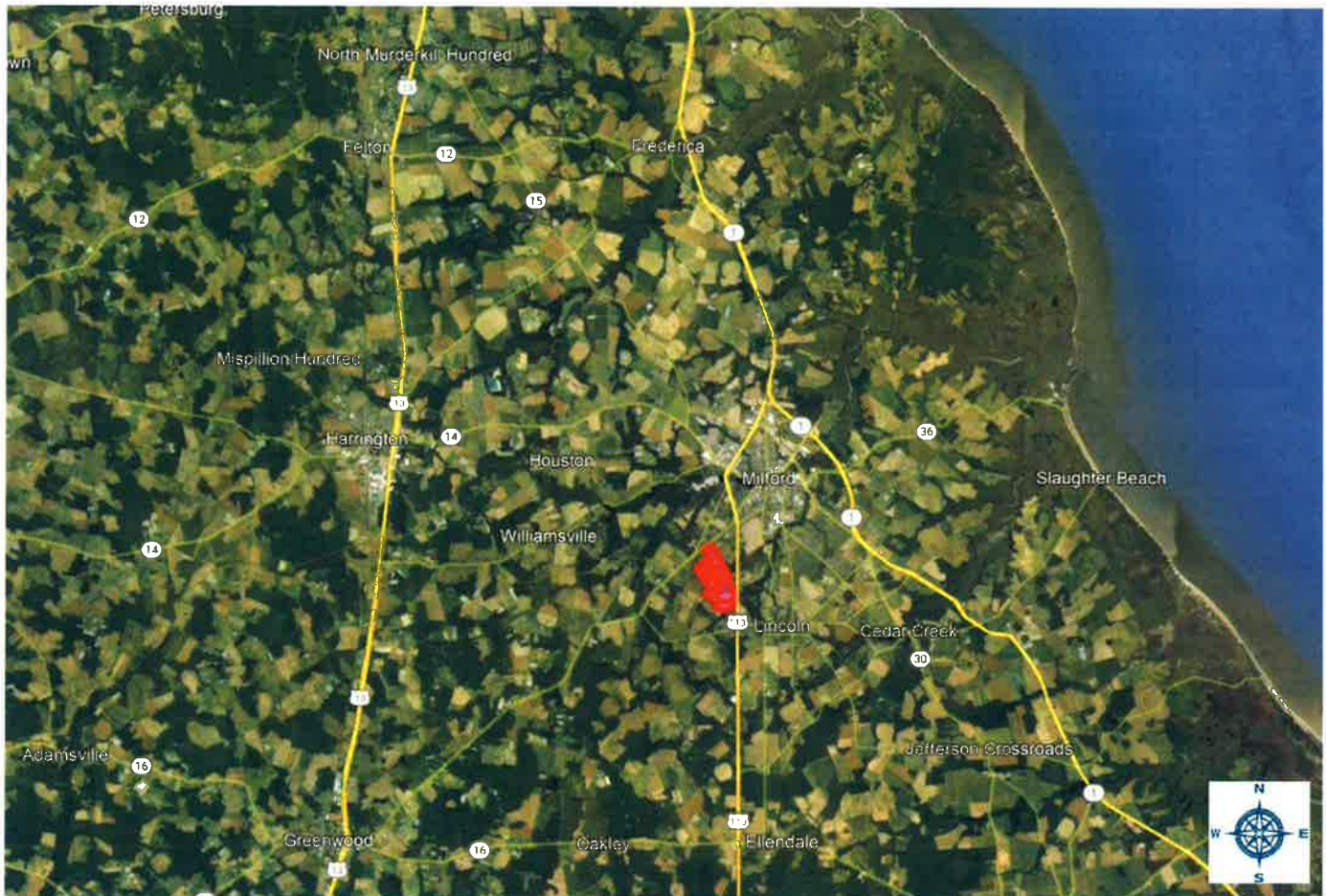


Sussex County, Delaware Zoning Map

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OVERVIEW OF THE SURROUNDING AREA OF THE PROJECT

The Project consists of a utility-scale, solar energy use in Cedar Creek Hundred, in Sussex County, Delaware known as the 75 MW Freeman Solar Project. A surrounding area map indicating the location of the Project (shown outlined in red) is presented below.



Aerial imagery provided by Google Earth, dated 2021
Parcel boundaries in red provided by Brookfield Renewable US

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TRAFFIC PATTERNS AND CONNECTIVITY

The entirety of the proposed Project Area is west of US Route 113 (Dupont Boulevard) and east of North Union Church Road, between State Route 36 (Shawnee Road) to the north, and Fitzgeralds Road to the south. Calhoun Road bisects the site from north to south. The city of Milford is approximately two miles northeast of the Project Area along Route 36.

DEMOGRAPHIC FACTORS

Demographic data is presented below, as compiled by ESRI, which indicates an increase in population in the area surrounding the Project, the county, and the state since 2010, but a relative slow-down in the increase in population in the next five years. The area is slightly more owner-occupied than renters. Median household income is lower at the local area than in the county and state. These features indicate a stable economic base.

DEMOGRAPHIC PROFILE			
	Milford City	Sussex County	Delaware
Population			
2026 Projection	12,577	279,275	1,055,548
2021 Estimate	11,586	253,731	1,003,934
2010 Census	9,767	197,145	897,934
Growth 2021 - 2026	8.55%	10.07%	5.14%
Growth 2010 - 2021	18.62%	28.70%	11.80%
Total Land Area	6,362 acres	765,440 acres	1,268,480 acres
Population Quotient	1.82/acre	0.33/acre	0.79/acre
Households			
2026 Projection	4,964	115,269	409,227
2021 Estimate	4,558	104,155	387,510
2010 Census	3,828	79,368	342,297
Growth 2021 - 2026	8.91%	10.67%	5.60%
Growth 2010 - 2021	19.07%	31.23%	13.21%
2021 Owner Occupied (%)	59.61%	54.53%	59.24%
2021 Renter Occupied (%)	40.39%	45.47%	40.76%
2021 Med. Household Income	\$55,915	\$64,404	\$69,332
2021 Avg. Household Income	\$70,925	\$87,002	\$93,253

CONCLUSION

Land uses in the area immediately surrounding the Project can be categorized as predominantly agricultural with some residential and industrial uses (waste transfer station). The factors presented previously indicate that the proposed Project would not be incompatible with surrounding uses and would not negatively impact surrounding properties.

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DELAWARE SOIL PRODUCTIVITY AND VALUE TRENDS

NCCPI PRODUCTIVITY INDEX

Crop yields have been the basis for establishing a soil productivity index, and are used by county assessors, farmers, and market participants in assessing agricultural land. While crop yields are an integral part in assessing soil qualities, it is not an appropriate metric to rely on because “yields fluctuate from year to year, and absolute yields mean little when comparing different crops. Productivity indices provide a single scale on which soils may be rated according to their suitability for several major crops under specified levels of management, such as an optimum level.”² The productivity index, therefore, not crop yields, is best suited for applications in land appraisal and land-use planning.

The United States Department of Agriculture’s (USDA) National Resources Conservation Services (NRCS) developed and utilizes the National Commodity Crop Productivity Index (NCCPI) as a national soil interpreter and is used in the National Soil Information System (NASIS), but it is not intended to replace other crop production models developed by individual states.³ The focus of the model is on identifying the best soils for the growth of commodity crops, as the best soils for the growth of these crops are generally the best soils for the growth of other crops.⁴ The NCCPI model describes relative productivity ranking over a period of years and not for a single year where external influences such as extreme weather or change in management practices may have affected production. At the moment, the index only describes non-irrigated crops, and will later be expanded to include irrigated crops, rangeland, and forestland productivity.⁵

Yields are influenced by a variety of different factors including environmental traits and management inputs. Tracked climate and soil qualities have been proven by researchers to directly explain fluctuations in crop yields, especially those qualities that relate to moisture-holding capacity. Except for these factors, “inherent soil quality or inherent soil productivity varies little over time or from place to place for a specific soil (map unit component) identified by the National Cooperative Soil Survey (NCSS).”⁶ The NRCS Web Soil Survey website has additional information on how the ratings are determined. The state of Delaware does not have its own crop production model and utilizes the NCCPI.

The proposed solar energy project is located in Sussex County, on the northern border of the southernmost county in the state. An excerpt of a soil productivity map is presented on the following page as retrieved from the USDA Web Soil Survey, which provides an illustration of the variation in soil productivity across the local area that is based on the NCCPI. The approximate site area for the Project is within the boundary delineated in the image below. Note, numerical labels correspond to soil type, not productivity index.

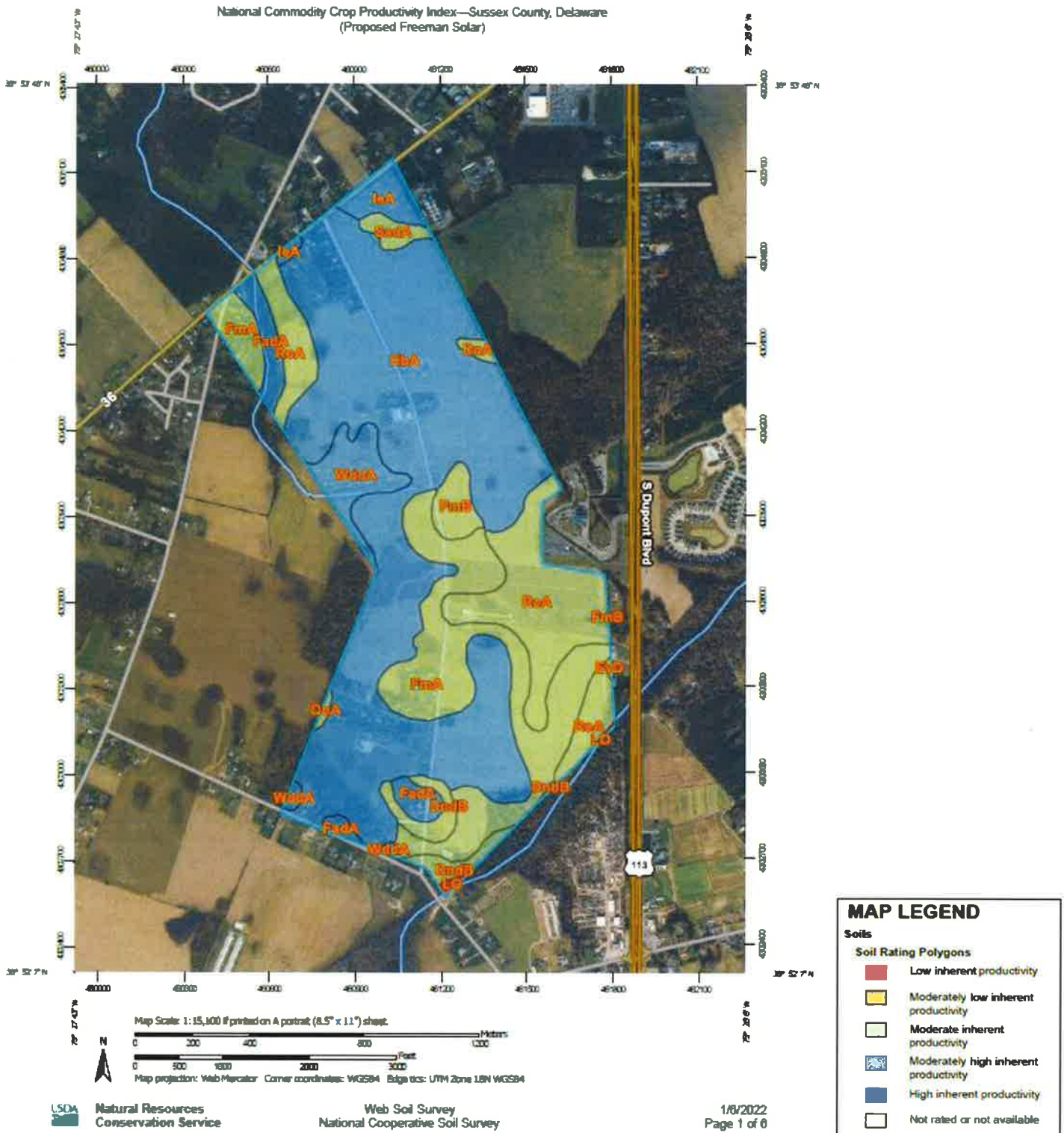
2 Bulletin 811: Optimum Crop Productivity of Illinois Soils. University of Illinois, College of Agricultural, Consumer and Environmental Sciences, Office of Research. August 200.

3 Agricultural land rental payments are typically tied to crop production of the leased agricultural land and is one of the primary reasons the NCCPI was developed, especially since the model needed to be consistent across political boundaries.

4 Per the User Guide for the National Commodity Crop Productivity Index, the NCCPI uses natural relationships of soil, landscape and climate factors to model the response of commodity crops in soil map units. The present use of the land is not considered in the ratings.

5 AgriData Inc. Docs: [http://support.agridatainc.com/NationalCommodityCropProductivityIndex\(NCCPI\).ashx](http://support.agridatainc.com/NationalCommodityCropProductivityIndex(NCCPI).ashx)

6 USDA NRCS’s User Guide National Commodity Crop Productivity Index (NCCPI)



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Per the NCCPI, soil productivity is measured on both a numerical scale from 0 to 100, with 0 being the worst and 100 being the best,⁷ and by qualitative ratings. The qualitative rating classifications below are determined by the USDA NRCS and provide general comments on the productivity of the soil.

High inherent productivity indicates that the soil, site, and climate have features that are very favorable for crop production. High yields and low risk of crop failure can be expected if a high level of management is employed.

Moderately high inherent productivity indicates that the soil has features that are generally quite favorable for crop production. Good yields and moderately low risk of crop failure can be expected.

Moderate inherent productivity indicates that the soil has features that are generally favorable for crop production. Good yields and moderate risk of crop failure can be expected.

Moderately low inherent productivity indicates that the soil has features that are generally not favorable for crop production. Low yields and moderately high risk of crop failure can be expected.

Low inherent productivity indicates that the soil has one or more features that are unfavorable for crop production. Low yields and high risk of crop failure can be expected.

The weighted average soil productivity for the general area was determined to be approximately 58.23. A numerical scale that corresponds to the indicated qualitative ratings above was not available for the NCCPI; however, the soil productivity for this area is near the middle of the range, aligning with the “moderate inherent productivity” category. According to the qualitative scale above, land with the moderate inherent productivity classification is generally favorable for crop production with good yields, and a moderate risk of crop failure.

⁷ Quantitative ratings are also show in ranges of 0.00 to 1.00. AgriData Inc. presents the NCCPI index rating multiplied by 100 in a range of 0.00 to 100.00 to show up to four significant figures.

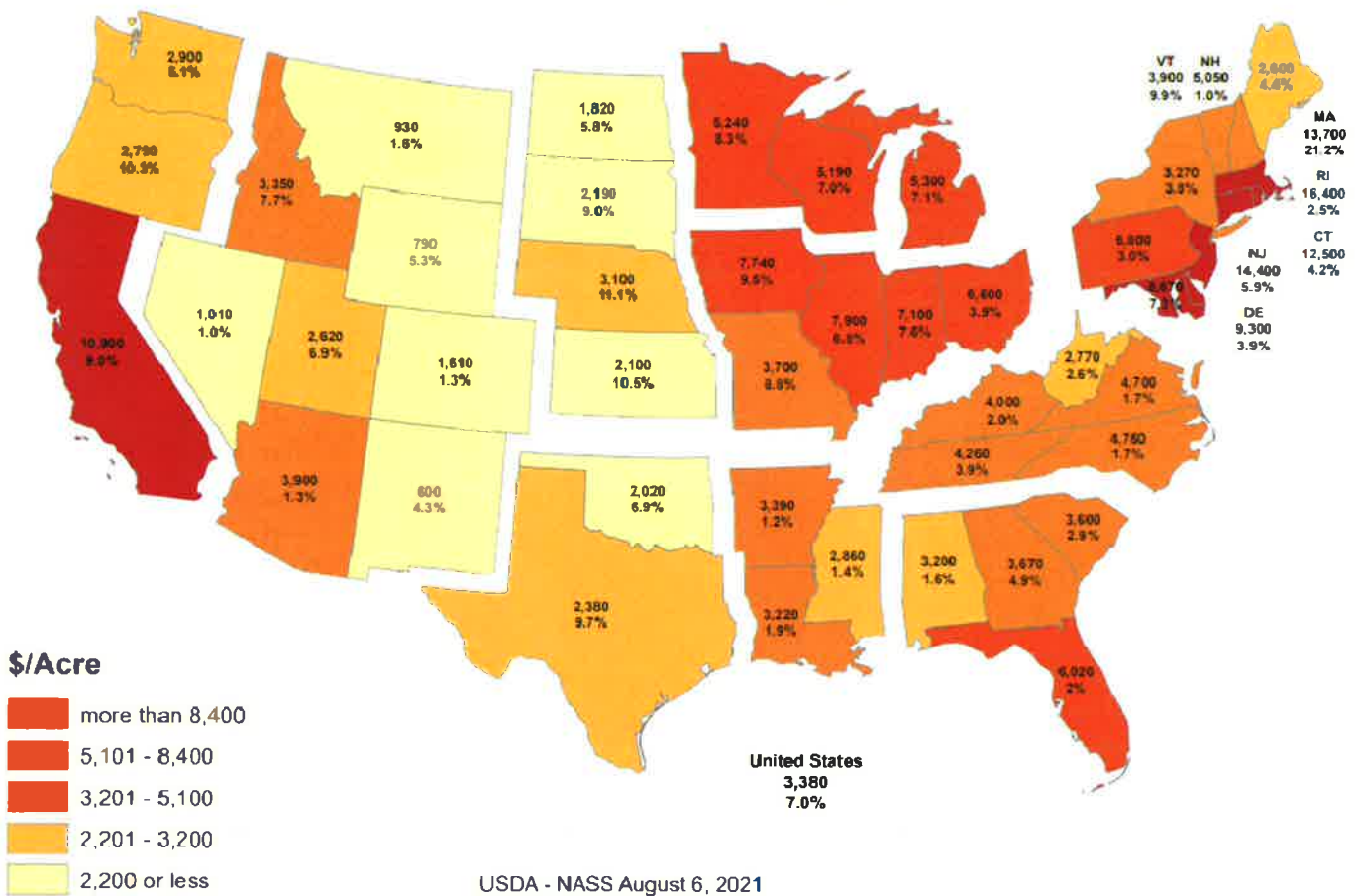
Disclaimer: This report is limited to the intended use, intended users (Freeman Solar, LLC, Brookfield Renewable, U.S., and Sussex County, Delaware planning and development department officials as it relates to the evaluation of the Project), and purpose stated within. No part of this report may otherwise be reproduced or modified in any form, or by any means, without the prior written permission of CohnReznick LLP.

AREA VALUE TRENDS - CROPLAND

Agricultural land values are heavily influenced by relative crop production yields. The following exhibit compiled by the USDA National Agricultural Statistics Service (NASS) provides an illustration of how regional conditions such as weather conditions, geographies, and soil conditions can affect farm real estate values.

2021 Farm Real Estate Value by State

Dollars per Acre and Percent Change from 2020



Per the NASS report, the average value of cropland in Delaware for 2021 was \$9,300 per acre, which is an increase of 3.9 percent from 2020.

AREA VALUE TRENDS – RESIDENTIAL HOMES

The proposed Project is to be located in Sussex County, in Cedar Creek Hundred, southwest of the city of Milford, Delaware. There has been some home sale activity in the area surrounding the proposed Project in the past year.

We researched sales in the surrounding area, from January 2021 through the end of December 2021, and identified eight market transactions of single-family homes in the area surrounding the proposed Project Area. The following table presents our findings.

**Home Sales Surrounding Proposed Project Area
(January 2021 through December 2021)**

Single Family Homes	Median Lot Size (Acres)	Median Living Area (SF)	Min. Sale Price	Max. Sale Price	Median Sale Price PSF
Milford Area	0.29	1,629	\$165,000	\$360,000	\$143.06

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The table below illustrates residential home value trends for the proposed Project’s Sussex County location. The source is the Federal Housing Finance Agency’s (FHFA) House Price Index (HPI), which is a weighted, repeat-sales index measuring changes in single-family house prices.

FHFA House Price Index Sussex County, Delaware		
Year	Annual Change (%)	HPI
2001	11.13	266.05
2002	8.63	289.02
2003	8.19	312.68
2004	15.65	361.61
2005	18.79	429.58
2006	8.93	467.94
2007	1.68	475.80
2008	-3.53	459.01
2009	-7.22	425.87
2010	-5.47	402.58
2011	-5.67	379.74
2012	-2.61	369.84
2013	-0.84	366.75
2014	1.69	372.94
2015	2.89	383.74
2016	1.65	390.08
2017	3.48	403.66
2018	4.82	423.13
2019	3.03	435.93
2020	3.45	450.97
Annual Average Compounded % Change	2.67%	

Based on the data shown above, the trend in residential home values in Sussex County have fluctuated with the national macroeconomy over the past twenty years but show an average annual increase rate of 2.67 percent. The housing values in the county are considered to be stable.

LOCAL LAND DEVELOPMENT TRENDS

Land values can be driven by a site's proximity to the path of development. The closer a property is to the path of development, and without natural barriers to development, the more value a property may have in the future; however, the path of development in the local area is north and east of the proposed Project Area, in the city of Milford. The Project Area has been agricultural land for at least 30 years.



Aerial Imagery dated September 2005



Aerial Imagery dated September 2021

According to the images above, there has been little new development in the local area over the past 16 years. Generally, any undeveloped agricultural land is considered to be an interim use as the intensity of uses grows in step with macroeconomic factors; however, the Project and the land surrounding have future designated land uses for agricultural purposes.

SUMMARY AND FINAL CONCLUSIONS

The Project is located in a stable area that is predominantly agricultural in nature with some neighboring residential and industrial development. The population quotient (persons per acre) for Sussex County where the proposed Project is to be located is 0.33, which reflects a semi-rural environment. Local development has not been robust over the past 16 years, and the future land use designations of the immediately adjoining land parcels will remain unchanged. Based on our analysis of real estate taxes in the Primary Report, solar farm uses incur anywhere from 131% to $\pm 1,000\%$ increase in real estate tax revenue for the local area, feeding back into essential services and schools. Local land and residential home prices have remained stable over the past five years and are anticipated to align in the future with macroeconomic changes. Overall, the proposed Project is considered a locally compatible use.

The purpose of the Primary Report and this addendum is to determine whether the presence of a solar farm has caused a measurable and consistent impact on adjacent property values. Under the identified methodology and scope of work detailed in the Primary Report, CohnReznick reviewed published methodology for measuring impact on property values as well as published reports that analyzed the impact of solar farms on property values. These studies found little to no measurable and consistent difference between Test Area Sales and Control Area Sales attributed to the solar farms.

The chosen existing solar farms analyzed in the Primary Report reflected sales of property adjoining an existing solar farm (Test Area Sales) in which the unit sale prices were effectively the same or higher, except for one, than the comparable Control Area Sales that were not near a solar farm. The conclusions support that there is no negative impact for improved residential homes adjacent to solar, nor agricultural acreage. This was confirmed with market participants interviews, which provided additional insight as to how the market evaluates farmland and single-family homes with views of the solar farm.

It can be concluded that since the adjoining property sales (Test Area Sales) were not adversely affected by their proximity to the solar farm, that properties surrounding other proposed solar farms operating in compliance with all regulatory standards will similarly not be adversely affected, in either the short or long term periods.

Based upon the examination, research, and analyses of the existing solar farm uses, the surrounding areas, and an extensive market database, we have concluded that **no consistent negative impact has occurred to adjacent property that could be attributed to proximity to the adjacent solar farm**, with regard to unit sale prices or other influential market indicators. Additionally, in our workfile we have retained analyses of additional existing solar farms, each with their own set of matched control sales, which had consistent results, indicating no consistent and measurable impact on adjacent property values. This conclusion has been confirmed by numerous county assessors who have also investigated this use's potential impact on property values

If you have any questions or comments, please contact the undersigned. Thank you for the opportunity to be of service.

Respectfully submitted,

CohnReznick LLP



Andrew R. Lines, MAI
Principal - Valuation Advisory Services
Certified General Real Estate Appraiser
Delaware License No. X5-0011520
Expires 7/28/2022



Patricia L. McGarr, MAI, CRE, FRICS
National Director - Valuation Advisory Services



Sonia K. Singh, MAI
Director – Valuation Advisory Services

CERTIFICATION

We certify that, to the best of our knowledge and belief:

1. The statements of fact and data reported are true and correct.
2. The reported analyses, findings, and conclusions in this consulting report are limited only by the reported assumptions and limiting conditions, and are our personal, impartial, and unbiased professional analyses, findings, and conclusions.
3. We have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved.
4. We have performed no services, as an appraiser or in any other capacity, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment.
5. We have no bias with respect to the property that is the subject of this report, or the parties involved with this assignment.
6. Our engagement in this assignment was not contingent upon developing or reporting predetermined results.
7. Our compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value finding, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this report.
8. Our analyses, findings, and conclusions were developed, and this report has been prepared, in conformity with the requirements of the Code of Professional Ethics and Standards of Professional Appraisal Practice of the Appraisal Institute, which includes the Uniform Standards of Professional Appraisal Practice (USPAP).
9. The use of this report is subject to the requirements of the Appraisal Institute relating to review by its duly authorized representatives.
10. Patricia L. McGarr, MAI, CRE, FRICS, Andrew R. Lines, MAI, and Sonia K. Singh, MAI have viewed the exterior of the Project and of all comparable data referenced in this report in person, via photographs, or aerial imagery.
11. We have not relied on unsupported conclusions relating to characteristics such as race, color, religion, national origin, gender, marital status, familial status, age, and receipt of public assistance income, handicap, or an unsupported conclusion that homogeneity of such characteristics is necessary to maximize value.
12. Amanda G. Edwards provided consulting assistance to the persons signing this certification, including data verification, research, and administrative work all under the appropriate supervision.
13. We have experience in reviewing properties similar to the subject and we are in compliance with the Competency Rule of USPAP.
14. As of the date of this report, Patricia L. McGarr, MAI, CRE, FRICS, Andrew R. Lines, MAI, and Sonia K. Singh, MAI have completed the continuing education program for Designated Members of the Appraisal Institute.

If you have any questions or comments, please contact the undersigned. Thank you for the opportunity to be of service.

Respectfully submitted,

CohnReznick LLP



Andrew R. Lines, MAI
Principal - Valuation Advisory Services
Certified General Real Estate Appraiser
Delaware License No. X5-0011520
Expires 7/28/2022



Patricia L. McGarr, MAI, CRE, FRICS
National Director - Valuation Advisory Services



Sonia K. Singh, MAI
Director – Valuation Advisory Services

ASSUMPTIONS AND LIMITING CONDITIONS

The fact witness services will be subject to the following assumptions and limiting conditions:

1. No responsibility is assumed for the legal description provided or for matter pertaining to legal or title considerations. Title to the property is assumed to be good and marketable unless otherwise stated. The legal description used in this report is assumed to be correct.
2. The property is evaluated free and clear of any or all liens or encumbrances unless otherwise stated.
3. Responsible ownership and competent management are assumed.
4. Information furnished by others is believed to be true, correct and reliable, but no warranty is given for its accuracy.
5. All engineering studies are assumed to be correct. The plot plans and illustrative material in this report are included only to help the reader visualize the property.
6. It is assumed that there are no hidden or unapparent conditions of the property, subsoil, or structures that render it more or less valuable. No responsibility is assumed for such conditions or for obtaining the engineering studies that may be required to discover them.
7. It is assumed that the property is in full compliance with all applicable federal, state, and local and environmental regulations and laws unless the lack of compliance is stated, described, and considered in the evaluation report.
8. It is assumed that the property conforms to all applicable zoning and use regulations and restrictions unless nonconformity has been identified, described, and considered in the evaluation report.
9. It is assumed that all required licenses, certificates of occupancy, consents, and other legislative or administrative authority from any local, state, or national government or private entity or organization have been or can be obtained or renewed for any use on which the value estimate contained in this report is based.
10. It is assumed that the use of the land and improvements is confined within the boundaries or property lines of the property described and that there is no encroachment or trespass unless noted in this report.
11. The date of value to which the findings are expressed in this report apply is set forth in the letter of transmittal. The appraisers assume no responsibility for economic or physical factors occurring at some later date which may affect the opinions herein stated.
12. Unless otherwise stated in this report, the existence of hazardous materials, which may or may not be present on the property, was not observed by the appraisers. The appraisers have no knowledge of the existence of such substances on or in the property. The appraisers, however, are not qualified to detect such substances. The presence of substances such as asbestos, urea-formaldehyde foam insulation, radon gas, lead or lead-based products, toxic waste contaminants, and other potentially hazardous materials may affect the value of the property. The value estimate is predicated on the assumption that there is no such material on or in the property that would cause a loss in value. No

responsibility is assumed for such conditions or for any expertise or engineering knowledge required to discover them. The client is urged to retain an expert in this field, if desired.

13. The forecasts, projections, or operating estimates included in this report were utilized to assist in the evaluation process and are based on reasonable estimates of market conditions, anticipated supply and demand, and the state of the economy. Therefore, the projections are subject to changes in future conditions that cannot be accurately predicted by the appraisers, and which could affect the future income or value projections.
14. Fundamental to the appraisal analysis is the assumption that no change in zoning is either proposed or imminent, unless otherwise stipulated. Should a change in zoning status occur from the property's present classification, the appraisers reserve the right to alter or amend the value accordingly.
15. It is assumed that the property does not contain within its confined any unmarked burial grounds which would prevent or hamper the development process.
16. The Americans with Disabilities Act (ADA) became effective on January 26, 1992. We have not made a specific compliance survey and analysis of the property to determine if it is in conformance with the various detailed requirements of the ADA. It is possible that a compliance survey of the property, together with a detailed analysis of the requirements of the ADA, could reveal that the property is not in compliance with one or more of the requirements of the Act. If so, this fact could have a negative effect on the value of the property. Unless otherwise noted in this report, we have not been provided with a compliance survey of the property. Any information regarding compliance surveys or estimates of costs to conform to the requirements of the ADA are provided for information purposes. No responsibility is assumed for the accuracy or completeness of the compliance survey cited in this report, or for the eventual cost to comply with the requirements of the ADA.
17. Any value estimates provided in this report apply to the entire property, and any proration or division of the total into fractional interests will invalidate the value estimate, unless such proration or division of interests has been set forth in this report.
18. Any proposed improvements are assumed to have been completed unless otherwise stipulated; any construction is assumed to conform with the building plans referenced in this report.
19. Unless otherwise noted in the body of this report, this evaluation assumes that the subject does not fall within the areas where mandatory flood insurance is effective.
20. Unless otherwise noted in the body of this report, we have not completed nor are we contracted to have completed an investigation to identify and/or quantify the presence of non-tidal wetland conditions on the subject property.
21. This report should not be used as a basis to determine the structural adequacy/inadequacy of the property described herein, but for evaluation purposes only.
22. It is assumed that the subject structure meets the applicable building codes for its respective jurisdiction. We assume no responsibility/liability for the inclusion/exclusion of any structural component item which may have an impact on value. It is further assumed that the subject property will meet code requirements as they relate to proper soil compaction, grading, and drainage.

23. The appraisers are not engineers, and any references to physical property characteristics in terms of quality, condition, cost, suitability, soil conditions, flood risk, obsolescence, etc., are strictly related to their economic impact on the property. No liability is assumed for any engineering-related issues.

The evaluation services will be subject to the following limiting conditions:

1. The findings reported herein are only applicable to the properties studied in conjunction with the Purpose of the Evaluation and the Function of the Evaluation as herein set forth; the evaluation is not to be used for any other purposes or functions.
2. Any allocation of the total value estimated in this report between the land and the improvements applies only to the stated program of utilization. The separate values allocated to the land and buildings must not be used in conjunction with any other appraisal and are not valid if so used.
3. No opinion is expressed as to the value of subsurface oil, gas, or mineral rights, if any, and we have assumed that the property is not subject to surface entry for the exploration or removal of such materials, unless otherwise noted in the evaluation.
4. This report has been prepared by CohnReznick under the terms and conditions outlined by the enclosed engagement letter. Therefore, the contents of this report and the use of this report are governed by the client confidentiality rules of the Appraisal Institute. Specifically, this report is not for use by a third party and CohnReznick is not responsible or liable, legally or otherwise, to other parties using this report unless agreed to in writing, in advance, by both CohnReznick and/or the client or third party.
5. Disclosure of the contents of this evaluation report is governed by the by-laws and Regulations of the Appraisal Institute has been prepared to conform with the reporting standards of any concerned government agencies.
6. The forecasts, projections, and/or operating estimates contained herein are based on current market conditions, anticipated short-term supply and demand factors, and a continued stable economy. These forecasts are, therefore, subject to changes with future conditions. This evaluation is based on the condition of local and national economies, purchasing power of money, and financing rates prevailing at the effective date of value.
7. This evaluation shall be considered only in its entirety, and no part of this evaluation shall be utilized separately or out of context. Any separation of the signature pages from the balance of the evaluation report invalidates the conclusions established herein.
8. **Possession of this report, or a copy thereof, does not carry with it the right of publication, nor may it be used for any purposes by anyone other than the client without the prior written consent of the appraisers, and in any event, only with property qualification.**
9. The appraisers, by reason of this study, are not required to give further consultation or testimony or to be in attendance in court with reference to the property in question unless arrangements have been previously made.

10. Neither all nor any part of the contents of this report shall be conveyed to any person or entity, other than the appraiser's client, through advertising, solicitation materials, public relations, news, sales or other media, without the written consent and approval of the authors, particularly as to evaluation conclusions, the identity of the appraisers or CohnReznick, LLC, or any reference to the Appraisal Institute, or the MAI designation. Further, the appraisers and CohnReznick, LLC assume no obligation, liability, or accountability to any third party. If this report is placed in the hands of anyone but the client, client shall make such party aware of all the assumptions and limiting conditions of the assignment.
11. This evaluation is not intended to be used, and may not be used, on behalf of or in connection with a real estate syndicate or syndicates. A real estate syndicate means a general or limited partnership, joint venture, unincorporated association or similar organization formed for the purpose of, and engaged in, an investment or gain from an interest in real property, including, but not limited to a sale or exchange, trade or development of such real property, on behalf of others, or which is required to be registered with the United States Securities and Exchange commissions or any state regulatory agency which regulates investments made as a public offering. It is agreed that any user of this evaluation who uses it contrary to the prohibitions in this section indemnifies the appraisers and the appraisers' firm and holds them harmless from all claims, including attorney fees, arising from said use.

**ADDENDUM A:
APPRAISER QUALIFICATIONS**

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Patricia L. McGarr, MAI, CRE, FRICS, CRA
Principal and CohnReznick Group –
Valuation Advisory National Director

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patricia.mcgarr@cohnreznick.com

Patricia L. McGarr, MAI, CRE, FRICS, CRA, is a principal and National Director of CohnReznick Advisory Group's Valuation Advisory Services practice. Pat's experience includes market value appraisals of varied property types for acquisition, condemnation, mortgage, estate, ad valorem tax, litigation, zoning, and other purposes. Pat has been involved in the real estate business since 1980. From June 1980 to January 1984, she was involved with the sales and brokerage of residential and commercial properties. Her responsibilities during this time included the formation, management, and training of sales staff in addition to her sales, marketing, and analytical functions. Of special note was her development of a commercial division for a major Chicago-area brokerage firm.

Since January 1984, Pat has been exclusively involved in the valuation of real estate. Her experience includes the valuation of a wide variety of property types including residential (SF/MF/LIHTC), commercial, industrial, and special purpose properties including such diverse subjects as quarries, marinas, riverboat gaming sites, shopping centers, manufacturing plants, and office buildings. She is also experienced in the valuation of leasehold and leased fee interests. Pat has performed appraisal assignments throughout the country, including the Chicago Metropolitan area as well as New York, New Jersey, California, Nevada, Florida, Utah, Texas, Wisconsin, Indiana, Michigan, and Ohio. Pat has gained substantial experience in the study and analysis of the establishment and expansion of sanitary landfills in various metropolitan areas including the preparation of real estate impact studies to address criteria required by Senate Bill 172. She has also developed an accepted format for allocating value of a landfill operation between real property, landfill improvements, and franchise (permits) value.

Over the past several years, Pat has developed a valuation group that specializes in the establishment of new utility corridors for electric power transmission and pipelines. This includes determining acquisition budgets, easement acquisitions, corridor valuations, and litigation support. Pat has considerable experience in performing valuation impact studies on potential detrimental conditions and has studied properties adjoining solar farms, wind farms, landfills, waste transfer stations, stone quarries, cellular towers, schools, electrical power transmission lines, "Big Box" retail facilities, levies, properties with restrictive covenants, landmark districts, environmental contamination, airports, material defects in construction, stigma, and loss of view amenity for residential high rises. Most recently, the firm has studied property values adjacent to Solar Farms to address criteria required for special use permits across the Midwest.

Pat has qualified as an expert valuation witness in numerous local, state, and federal courts.

Pat has participated in specialized real estate appraisal education and has completed more than 50 courses and seminars offered by the Appraisal Institute totaling more than 600 classroom hours, including real estate transaction courses as a prerequisite to obtaining a State of Illinois Real Estate Salesman License.

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purpose stated within. No part of this report may otherwise be reproduced or modified in any form, or by any means, without the prior written permission of CohnReznick LLP.

Pat has earned the professional designations of Counselors of Real Estate (CRE), Member of the Appraisal Institute (MAI), Fellow of Royal Institution of Chartered Surveyors (FRICS) and Certified Review Appraiser (CRA). She has also been a certified general real estate appraiser in 21 states (see below).

Education

- North Park University: Bachelor of Science, General Studies

Professional Affiliations

- National Association of Realtors
- CREW Commercial Real Estate Executive Women
- IRWA International Right Of Way Association

Licenses and Accreditations

- Member of the Appraisal Institute (MAI)
- Counselors of Real Estate, designated CRE
- Fellow of Royal Institution of Chartered Surveyors (FRICS)
- Certified Review Appraiser (CRA)
- Alabama State Certified General Real Estate Appraiser
- California State Certified General Real Estate Appraiser
- Connecticut State Certified General Real Estate Appraiser
- Colorado State Certified General Real Estate Appraiser
- District of Columbia Certified General Real Estate Appraiser
- Illinois State Certified General Real Estate Appraiser
- Indiana State Certified General Real Estate Appraiser
- Louisiana State Certified General Real Estate Appraiser
- Maryland State Certified General Real Estate Appraiser
- Massachusetts Certified General Real Estate Appraiser
- Michigan State Certified General Real Estate Appraiser
- North Carolina State Certified General Real Estate Appraiser
- New Jersey State Certified General Real Estate Appraiser
- Nevada State Certified General Real Estate Appraiser
- New York State Certified General Real Estate Appraiser
- Pennsylvania State Certified General Real Estate Appraiser
- South Carolina State Certified General Real Estate Appraiser
- Tennessee State Certified General Real Estate Appraiser
- Texas State Certified General Real Estate Appraiser
- Virginia State Certified General Real Estate Appraiser
- Wisconsin State Certified General Real Estate Appraiser

Appointments

- Appointed by two Governors of Illinois to the State Real Estate Appraisal Board (2017 & 2021)
- Chairwoman of the State of Illinois Real Estate Appraisal Board (2021)

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Andrew R. Lines, MAI

Principal, CohnReznick Advisory

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Andrew R. Lines is a principal in CohnReznick's Valuation Advisory Services practice where he specializes in Real Estate, Affordable Housing, Cannabis and Renewable Energy. Andrew leads a group of appraisers across the country performing valuations of a wide variety of real estate property types including residential, commercial, industrial, hospitality and special purpose properties: landfills, waste transfer stations, marinas, hospitals, universities, self-storage facilities, racetracks, CCRCs, and railroad corridors. Affordable Housing experience includes Market Studies, Rent Compatibility Studies and Feasibility Analysis for LIHTC and mixed-income developments. Cannabis assignments have covered cultivation, processing, and dispensaries in over 10 states, including due diligence for mergers and acquisitions of multi-state operational and early stage companies. Renewable Energy assignments have included preparation of impact studies and testimony at local zoning hearings in eight states.

Andrew is experienced in the valuation of leasehold, leased fee, and partial interests and performs appraisals for all purposes including financial reporting, litigation, and gift/estate planning. Andrew is a State Certified General Real Estate Appraiser in the states of Illinois, Indiana, Maryland, Georgia, Florida, Ohio, New York, New Jersey, Arizona, Kentucky, and the District of Columbia.

Before joining CohnReznick, Andrew was with Integra Realty Resources, starting as analyst support in 2002 and leaving the firm as a director in late 2011 (including two years with the Phoenix chapter). His real estate experience also includes one year as administrator for the residential multifamily REIT Equity Residential Properties Trust (ERP), in the transactions department, where he performed due diligence associated with the sale and acquisition of REIT properties and manufactured home communities.

Education

- Syracuse University: Bachelor of Fine Arts
- MAI Designation (Member of the Appraisal Institute)

Professional Affiliations

- Chicago Chapter of the Appraisal Institute
 - Alternate Regional Representative (2016 - 2018)
 - MAI Candidate Advisor (2014 - Present)
- International Real Estate Management (IREM)
- National Council of Real Estate Investment Fiduciaries (NCREIF)

Community Involvement

- Syracuse University Regional Council - Active Member
- Syracuse University Alumni Association of Chicago, Past Board member
- Chicago Friends School - Treasurer & Board Member

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Sonia K. Singh, MAI

Director – Valuation Advisory Services

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Sonia K. Singh, MAI is a director in the CohnReznick Valuation Advisory Services practice and is based in the Bethesda office. Since 2011, she has engaged in real estate valuation and other real estate consulting services and valued over \$5 billion in real property.

Sonia is adept at valuing a variety of commercial real estate across the United States, including the following complex property types: athletic clubs; full-service hotels and beach resorts; marinas; historic redevelopment projects; recycling facilities; single-family rental home portfolios; master planned communities; and for-sale residential units or subdivisions. She has also performed real estate appraisals involving leasehold interests, air rights ownership, and right-of-way fee simple and easement acquisitions for utility corridors. She has performed these and other appraisals others for purposes including financial reporting, estate planning, gift and estate tax, bond and conventional financing, litigation (eminent domain), and asset management, with the ability to handle appraisals of large portfolios in expedited timeframes. With significant experience in the appraisal of senior living facilities including continuing care retirement communities, skilled nursing facilities, assisted living and memory care facilities, as well as age-restricted housing, Ms. Singh has elevated the firm’s modelling of complex healthcare property ownership structures to help illuminate debt/income and lease coverage ratios for federal courts, resulting in millions of dollars in recovered credits for clients.

Additionally, Sonia is experienced in purchase price allocations (GAAP, IFRS, and IRC 1060) for financial reporting, including the early adoption of ASU 2017-01. She has also provided valuation services related to highest and best use analysis, market feasibility studies, and useful life analysis. She has prepared impact studies measuring the possible detrimental impact of economic and environmental influences on property values, including those related to high-voltage transmission lines, distribution warehouses, wind farms, and solar farms. She has provided expert witness testimony at local county zoning hearings for proposed solar energy uses and their potential detrimental impacts on adjacent property values.

Education

- University of Illinois: Bachelor of Science, Actuarial Science

Professional Affiliation, Licenses, and Exams

- MAI - Appraisal Institute, Designated Member
- Urban Land Institute, Associate Member
- Certified General Real Estate Appraiser with Active Licenses in DC and the States of MD, MO, and VA
- Successful completion of the following actuarial exams: Probability (1/P), Financial Mathematics (2/FM), and Models for Financial Economics (3/MFE)

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Awards and Recognitions

- 2019 National Association of Certified Valuers and Analysts (NACVA) and the Consultants Training Institute (CTI) 40 Under Forty Honoree

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Amanda Edwards is a valuation research specialist in CohnReznick's Valuation Advisory Services practice group and is based in Chicago. Amanda has assisted other appraisers in the valuation of a variety of industrial properties, medical offices, hotels, multifamily properties, condominium developments, retail and mixed-use properties, developable and open space land, and single family subdivisions. She has also assisted with appraisals and continuing consulting for eminent domain litigation. Additionally, Amanda has provided audit support for Assurance clients of the firm.

Before joining CohnReznick, Amanda worked at the Inland Group of companies valuing properties and underwriting, as well as assisting in the closing of commercial mortgage loans, nationwide. Property types included industrial, office, multi-family, retail, and hotel, with an emphasis on value-add properties and new construction projects. Amanda has also worked as a commercial lender for builder-developer housing at Fifth Third Bank, specializing in the Chicago metro area. She has also worked valuing senior housing properties and associated business models for acquisition purposes at a senior housing developer/operator.

Amanda has spent considerable time in the consulting environment, developing and conducting in-depth interviews for primary research in a variety of industries such as technology, financial institutions, and industrial manufacturing for private equity clients.

Education

- Bryn Mawr College, Bachelor of Arts

Professional Affiliations

- Appraisal Institute - Practicing Affiliate
- Chicago Real Estate Council - Member

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**IMPACT STUDY REPORT
WIP 4-01-2022**



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REAL ESTATE ADJACENT PROPERTY VALUE IMPACT REPORT:

**Academic and Peer Authored Property Value Impact Studies,
Research and Analysis of Existing Solar Facilities, and
Market Participant and Assessor Interviews**

Prepared For:

Mr. John Soininen
Senior Director, Asset Development
Brookfield Renewable, U.S.

Submitted By:

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Patricia L. McGarr, MAI, CRE, FRICS
Andrew R. Lines, MAI
Sonia K. Singh, MAI

April 1, 2022



LETTER OF TRANSMITTAL

April 1, 2022

Mr. John Soinenen
Senior Director, Asset Development
Brookfield Renewable, U.S.

SUBJECT: Property Value Impact Report
An Analysis of Existing Solar Farms

To Whom it May Concern:

CohnReznick is pleased to submit the accompanying property values impact report for proposed solar energy uses in Delaware. Per the client's request, CohnReznick researched property transactions adjacent to existing solar farms, researched and analyzed articles and other published studies, and interviewed real estate professionals and Township/County Assessors active in the market where solar farms are located, to gain an understanding of actual market transactions in the presence of solar energy uses.

The purpose of this consulting assignment is to determine whether proximity to a renewable energy use (solar farm) has an impact adjacent property values. The intended use of our opinions and conclusions is to assist the client in addressing local concerns and to provide information that local bodies are required to consider in their evaluation of solar project use applications. We have not been asked to value any specific property, and we have not done so.

The client and intended user for the assignment is Brookfield Renewable, U.S. Additional intended users of our findings include all relevant permitting authorities for Brookfield Renewable, U.S.'s proposed solar projects in Delaware. The report may be used only for the aforementioned purpose and may not be distributed without the written consent of CohnReznick LLP ("CohnReznick").

This consulting assignment is intended to conform to the Uniform Standards of Professional Appraisal Practice (USPAP), the Code of Professional Ethics and Standards of Professional Appraisal Practice of the Appraisal Institute, as well as applicable state appraisal regulations.

Based on the analysis in the accompanying report, and subject to the definitions, assumptions, and limiting conditions expressed in the report, our findings are:

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FINDINGS

- I. Academic Studies (pages 20-22): CohnReznick reviewed and analyzed published academic studies that specifically analyzed the impact of solar facilities on nearby property values. These studies include multiple regression analyses of hundreds and thousands of sales transactions, and opinion surveys, for both residential homes and farmland properties in rural communities, which concluded existing solar facilities have had no negative impact on adjacent property values.

Peer Authored Studies: CohnReznick also reviewed studies prepared by other real estate valuation experts that specifically analyzed the impact of solar facilities on nearby property values. These studies found little to no measurable or consistent difference in value between the Test Area Sales and the Control Area Sales attributed to the proximity to existing solar farms and noted that solar energy uses are generally considered a compatible use.

- II. CohnReznick Studies (pages 23-120): Further, CohnReznick has performed 27 studies in over 16 states, of both residential and agricultural properties, in which we have determined that the existing solar facilities have not caused any consistent and measurable negative impact on property values.

For this Project, we have included 10 of these studies which are most similar to the subject in terms of general location and size, summarized as follows:

CohnReznick - Existing Solar Farms Studied					
#	Solar Farm	County	State	MW AC	Acreage
1	North Star Solar	Chisago	MN	100.00	±1,000
2	Dominion Indy Solar III	Marion	IN	8.60	129.04
3	Dougherty Solar	Dougherty	GA	120.00	1,280.93
4	Miami-Dade Solar Energy Center	Miami-Dade	FL	74.50	465.61
5	Barefoot Bay Solar Energy Center	Brevard	FL	74.50	504.75
6	Innovative Solar 42	Bladen & Cumberland	NC	71.00	413.99
7	Rutherford Farm	Rutherford	NC	61.00	488.84
8	Elm City Solar	Wilson	NC	40.00	354.00
9	Woodland Solar	Isle of Wight	VA	19.00	211.12
10	DTE Lapeer Solar	LaPeer	MI	48.28	365.68

It is noted that proximity to the solar farms has not deterred sales of nearby agricultural land and residential single-family homes, nor has it deterred the development of new single-family homes on adjacent land.

This report also includes four "Before and After" analyses, in which sales that occurred prior to the announcement and construction of the solar farm project were compared with sales that occurred after completion of the solar farm project, for both adjoining and non-adjoining properties. No measurable impact on property values was demonstrated. We have also included an additional study of the New Road Solar farm in New Jersey, for informational purposes.

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- III. Market Participant Interviews (pages 121-124): Our conclusions also consider interviews with over 45 County and Township Assessors, who have at least one solar farm in their jurisdiction, and in which they have determined that solar farms have not negatively affected adjacent property values.

With regards to the Project, we specifically interviewed Assessors in Delaware and neighboring states:

- Cheryl Bundek, the Supervisor of Assessments of Kent County, Delaware, reported that when she worked in the city of Dover's tax assessor's office, they had never received a complaint or appeal request about assessed values from home owners in nearby manufactured home communities regarding the Dover Sun Park solar farm.
- Nancy Cook in the South Brunswick Township tax assessor's office, in Middlesex County, New Jersey, said that to her recollection there had been no complaints or appeals filed about the presence of the New Road Solar facility in the township from nearby subdivision homeowners.
- Steve Lehr at the Department of Assessment for Tompkins County, New York, mentioned that the appraisal staff has made no adjustments regarding assessed values of properties surrounding solar farms. Marketing times for properties have also stayed consistent. Lehr noted that a few of the solar farms in Tompkins County are on land owned by colleges and universities and a few are in rural areas.
- Al Fiorille, Senior Valuation Specialist in the Tompkins County Assessment department in New York, reported that he could not measure any negativity from the solar farms and arrays that have been installed within the county.
- Mason Hass, the Riverhead Assessor in Suffolk County, on Long Island, New York stated that the solar farms in his town are in industrial zoned areas, and he has not seen any impact on adjacent properties.
- The Assessor for the town of Smithtown in Suffolk County, New York, Irene Rice, has not seen any impact on property values as a result of their location near the newly built solar farms in her town.
- Michael Zazzara, Assessor of the City of Rochester in Monroe County, New York commented that the City has a couple of solar farms, and they have seen no impact on nearby property values and have received no complaints from property owners.
- While there are one or two homes nearby to existing solar farms in the town of Lisbon in St. Lawrence County, New York, Assessor Stephen Teele has not seen any impact on property values in his town. The solar farms in the area are in rural or agricultural areas in and around Lisbon.
- The Assessor for the Village of Whitehall in Washington County, New York, Bruce Caza, noted that there are solar farms located in both rural and residential areas in the village and he has seen no impact on adjacent properties, including any concerns related to glare from solar panels.

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To give us additional insight as to how the market evaluates farmland and single-family homes with views of solar farms, we interviewed numerous real estate brokers and other market participants who were party to actual sales of property adjacent to solar; these professionals also confirmed that solar farms did not diminish property values or marketability in the areas they conducted their business.

- IV. Solar Farm Factors on Harmony of Use (*pages 125-130*): In the course of our research and studies, we have recorded information regarding the compatibility of these existing solar facilities and their adjoining uses, including the continuing development of land adjoining these facilities.

CONCLUSION

Considering all of the preceding, the data indicates that solar facilities do not have a negative impact on adjacent property values.

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If you have any questions or comments, please contact the undersigned. Thank you for the opportunity to be of service.

Very truly yours,

CohnReznick LLP

Andrew R. Lines, MAI
Principal - Valuation Advisory Services
Certified General Real Estate Appraiser

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Florida License No. RZ3899
Expires 11/30/2022
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Expires 6/30/2022
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Expires 10/31/2023

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Michigan License No. 1201072979
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Director – Valuation Advisory Services
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Expires 3/31/2024

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TABLE OF CONTENTS

LETTER OF TRANSMITTAL 2

 FINDINGS 3

 CONCLUSION..... 5

SCOPE OF WORK 9

 CLIENT AND INTENDED USERS..... 9

 INTENDED USE 9

 PURPOSE..... 9

 DEFINITION OF VALUE..... 9

 EFFECTIVE DATE & DATE OF REPORT 10

 PRIOR SERVICES..... 10

 INSPECTION..... 10

OVERVIEW OF SOLAR DEVELOPMENT IN THE UNITED STATES..... 11

 NATIONAL UTILITY-SCALE ENERGY PRODUCTION..... 12

 ENERGY PRODUCTION IN DELAWARE..... 15

APPRAISAL THEORY – ADAJCENT PROPERTY’S IMPACT ON VALUE 16

 METHODOLOGY 17

 SCOPE OF WORK..... 18

TECHNIQUE 1: REVIEW OF PUBLISHED STUDIES 20

 ACADEMIC REPORTS 20

 VALUATION EXPERT REPORTS 21

 REAL ESTATE ASSESSOR SOLAR IMPACT REPORTS 22

 CONCLUSION..... 22

TECHNIQUE 2: PAIRED SALE ANALYSIS 23

 SOLAR FARM 1: NORTH STAR SOLAR FARM, CHISAGO COUNTY, MINNESOTA..... 23

 SOLAR FARM 2: DOMINION INDY SOLAR III, MARION COUNTY, IN..... 47

 SOLAR FARM 3: DOUGHERTY SOLAR, DOUGHERTY COUNTY, GEORGIA..... 57

 SOLAR FARM 4: MIAMI-DADE SOLAR ENERGY CENTER, MIAMI DADE COUNTY, FL..... 65

 SOLAR FARM 5: BAREFOOT BAY SOLAR ENERGY CENTER, BREVARD COUNTY, FL..... 69

 SOLAR FARM 6: INNOVATIVE SOLAR 42, BLADEN AND CUMBERLAND COUNTIES, NC..... 79

 SOLAR FARM 7: RUTHERFORD FARM, RUTHERFORD COUNTY, NC..... 84

 SOLAR FARM 8: ELM CITY SOLAR FACILITY, WILSON COUNTY, NC 89

 SOLAR FARM 9: WOODLAND SOLAR FARM, ISLE OF WIGHT COUNTY, VA 94

 SOLAR FARM 10: DTE’S LAPEER SOLAR PROJECT, LAPEER, MICHIGAN 98

 NEW ROAD SOLAR, MIDDLESEX COUNTY, NEW JERSEY 111

TECHNIQUE 3: MARKET COMMENTARY 121

SOLAR FARM FACTORS ON HARMONY OF USE..... 125

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SUMMARY OF ADJOINING USES 131

SUMMARY AND FINAL CONCLUSIONS 132

CERTIFICATION 135

ASSUMPTIONS AND LIMITING CONDITIONS 137

ADDENDUM A: APPRAISER QUALIFICATIONS 141

Work in Progress 4.1.22

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SCOPE OF WORK

CLIENT AND INTENDED USERS

The client and intended user of this report is Brookfield Renewable, U.S.; other intended users may include the client's legal and site development professionals. Additional intended users of our findings include all relevant permitting authorities for Brookfield Renewable, U.S.'s proposed solar projects in Delaware.

INTENDED USE

The intended use of our findings and conclusions is to address certain criteria required for the granting of approvals for proposed solar energy uses. We have not been asked to value any specific property, and we have not done so. The report may be used only for the aforementioned purpose and may not be distributed without the written consent of CohnReznick LLP ("CohnReznick").

PURPOSE

The purpose of this consulting assignment is to determine whether proximity to the proposed solar facility will result in an impact on adjacent property values.

DEFINITION OF VALUE

This report utilizes Market Value as the appropriate premise of value. Market value is defined as:

"The most probable price which a property should bring in a competitive and open market under all conditions requisite to a fair sale, the buyer and seller each acting prudently and knowledgeably, and assuming the price is not affected by undue stimulus. Implicit in this definition are the consummation of a sale as of a specified date and the passing of title from seller to buyer under conditions whereby:

1. Buyer and seller are typically motivated;
2. Both parties are well informed or well advised, and acting in what they consider their own best interests;
3. A reasonable time is allowed for exposure in the open market.
4. Payment is made in terms of cash in U.S. dollars or in terms of financial arrangements comparable thereto; and
5. The price represents the normal consideration for the property sold unaffected by special or creative financing or sales concessions granted by anyone associated with the sale."¹

¹ Code of Federal Regulations, Title 12, Chapter I, Part 34.42[h]

EFFECTIVE DATE & DATE OF REPORT

April 1, 2022 (Paired sale analyses contained within each study are periodically updated.)

PRIOR SERVICES

USPAP requires appraisers to disclose to the client any services they have provided in connection with the subject property in the prior three years, including valuation, consulting, property management, brokerage, or any other services.

This report is a compilation of the Existing Solar Farms which we have studied over the past year and is not evaluating a specific subject site. In this instance, there is no "subject property" to disclose.

INSPECTION

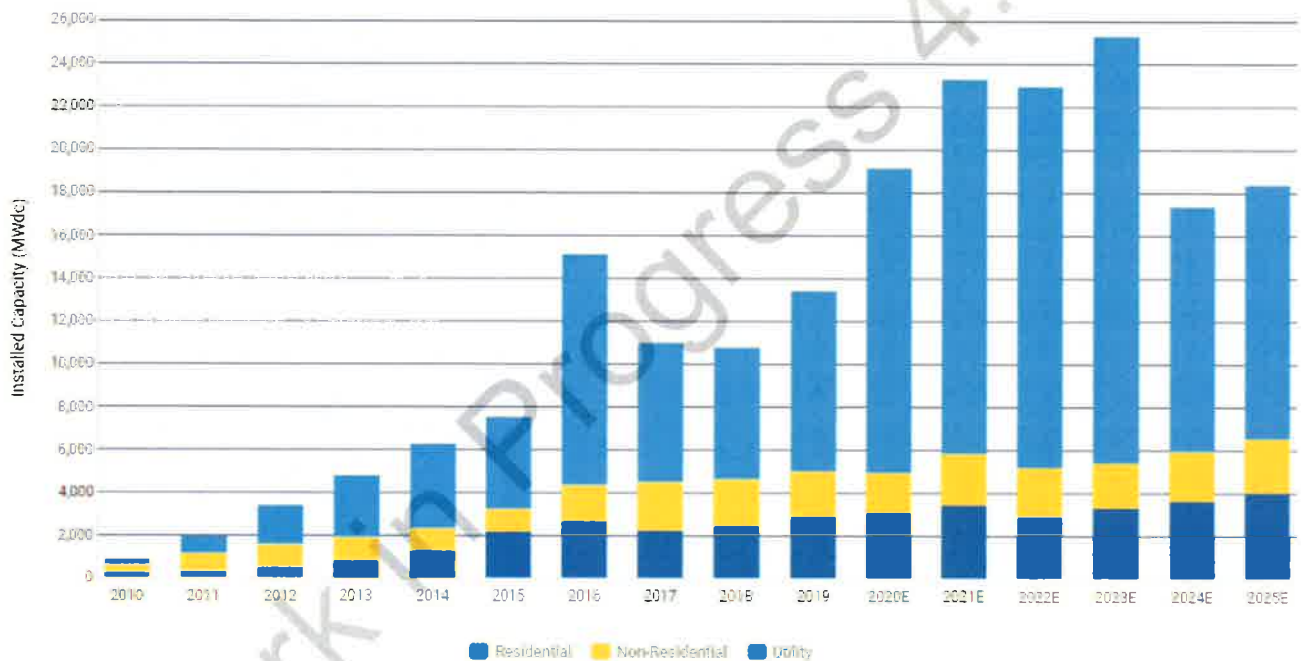
Patricia L. McGarr, MAI, CRE, FRICS, Andrew R. Lines, MAI, and Sonia K. Singh, MAI have viewed the exterior of all comparable data referenced in this report in person, via photographs, or aerial imagery.

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OVERVIEW OF SOLAR DEVELOPMENT IN THE UNITED STATES

Solar development increased almost exponentially over the past ten years in the United States as technology and the economic incentives (Solar Investment Tax Credits or ITC) made the installation of solar farms economically reasonable. The cost to install solar panels has dropped nationally by 70 percent since 2010, which has been one cause that led to the increase in installations. A majority of these solar farm installations are attributed to larger-scale solar farm developments for utility purposes. The chart below portrays the historical increase on an annual basis of solar installations in the US as a whole, courtesy of research by Solar Energy Industries Association (SEIA) and Wood Mackenzie, and projects solar photovoltaic (PV) deployment for the next five years through 2025, with the largest percentage of installations attributed to utility-scale projects.

U.S. Solar PV Deployment Forecast



SEIA, Wood Mackenzie Power & Renewables U.S. Solar Market Insights 2020-24



The United States installed a record of 19.2 Gigawatts (GW) DC of solar photovoltaic capacity for both residential and utility-scale solar projects installed in 2020, representing an increase of 43 percent since 2019. Since the cost to install solar has decreased more than 70% over the past decade, solar has continued to rank either first or second in new electric capacity additions in each of the past eight years. The first quarter of 2021 was the largest Q1 on record, with the U.S. solar market installing more than 5 GW DC of solar capacity. Although, the coronavirus pandemic had put some supply-side constraint on solar construction. According to SEIA, “increasing demand for solar, combined with pandemic-related macroeconomic realities (such as increased shipping costs,

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microchip availability, and a residential home renovation boom) have led to increased commodity prices and delivery delays.” The pipeline for utility-scale PV, as of first quarter 2021, includes capacity of 85 GW for contracted projects.² With the increase of utility-scale solar installations across the country, solar projects have become a common and understood feature of the landscape and will continue to do so with the projected additional capacity to come online in the coming years despite the downside risks caused by the coronavirus pandemic.

Recent articles show that over the past decade, the solar industry has experienced unprecedented growth. Among the factors contributing to its growth were government incentives, significant capacity additions from existing and new entrants and continual innovation. Solar farms offer a wide array of economic and environmental benefits to surrounding properties. Unlike other energy sources, solar energy does not produce emissions that may cause negative health effects or environmental damage. Solar farms produce a lower electromagnetic field exposure than most household appliances, such as TV and refrigerators, and studies have confirmed there are no health issues related to solar farms.³

Solar farm construction in rural areas has also dramatically increased the tax value of the land on which they are built, which has provided a financial boost to some counties. CohnReznick has studied real estate tax increases due to the installation of solar, which can range up to 10-12 times the rate for farmland. Majority of tax revenue is funneled back into the local area, and as much as 50% of tax revenue can typically be allocated to the local school district. By converting farmland to a passive solar use for the duration of the system’s life, the solar energy use would not burden school systems, utilities, traffic, nor infrastructure as it is a passive use that does not increase population as say a residential subdivision would.

Beyond creating jobs, solar farms are also benefiting the overall long-term agricultural health of the community. The unused land, and also all the land beneath the solar panels, will be left to repair naturally. In the long run this is a better use of land since the soil is allowed to recuperate instead of being ploughed and fertilized year in and year out. A solar farm can offer some financial security for the property owner over 20 to 25 years. Once solar panel racking systems are removed, the land can revert to its original use.⁴

NATIONAL UTILITY-SCALE ENERGY PRODUCTION

As of July 2021, the U.S. produces almost 1.224 million megawatts (MW) of power each year, according to the U.S. Energy Information Administration (EIA) in ±23,700 unique power generation facilities. Of that power produced, approximately four percent is generated from solar facilities, or 51,907 MW AC, at 4,828 solar facilities across the country, reflecting an average facility size of 10.75 MW AC. For utility scale solar production, the

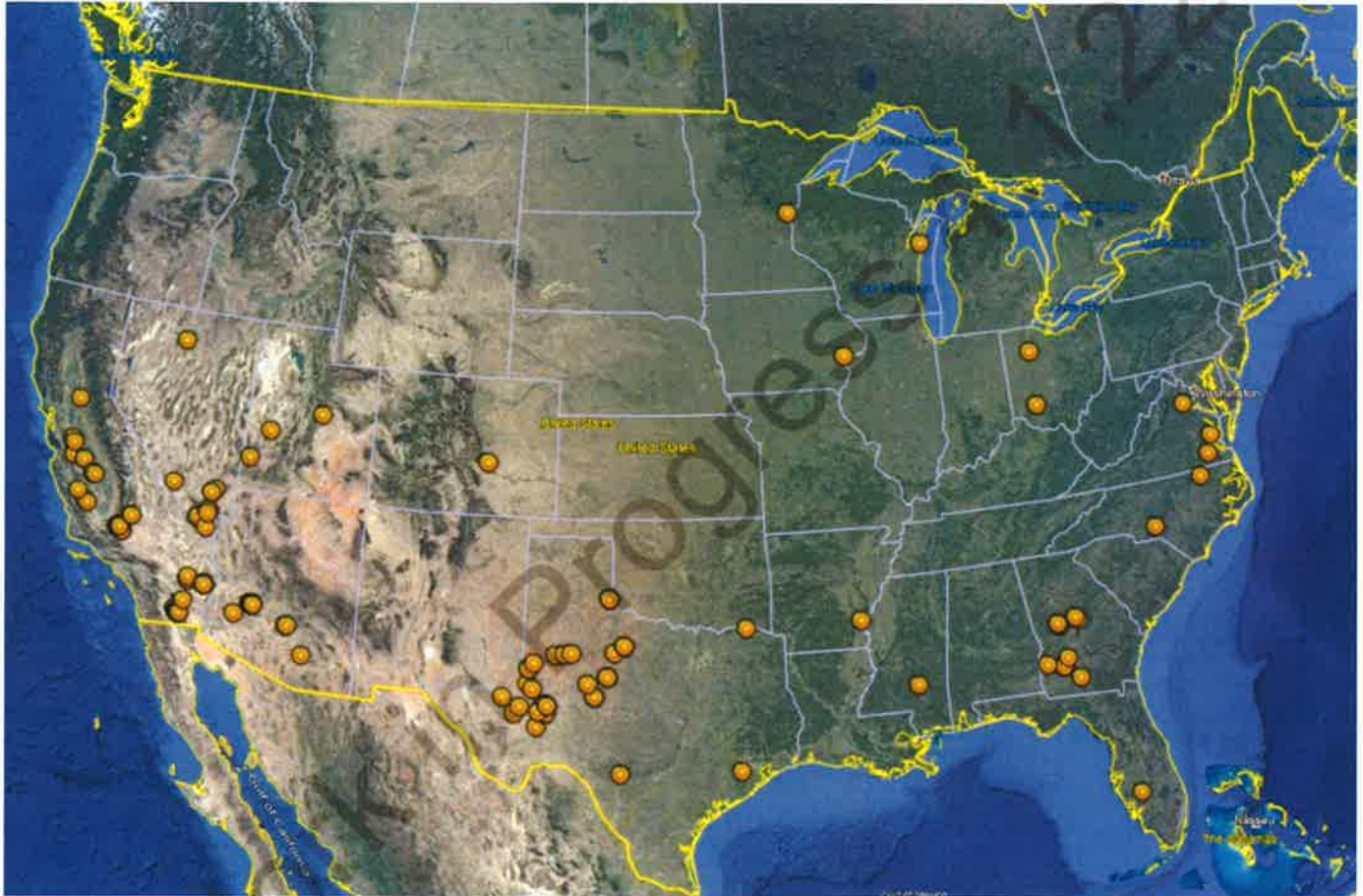
² Solar Energy Industries Association, Solar Market Insight Report 2021 Q2

³ “Electromagnetic Field and Public Health.” Media Centre (2013): 1-4. World Health Organization.

⁴ NC State Extension. (May 2016). Landowner Solar Leasing: Contract Terms Explained. Retrieved from: <https://content.ces.ncsu.edu/landowner-solar-leasing-contract-terms-explained>

number of facilities that generate over 5 MW of power accounts for 33.6 percent of all solar facilities, nationwide, whereas 88.8 percent of solar power generated in the country comes from utility scale facilities, overall.

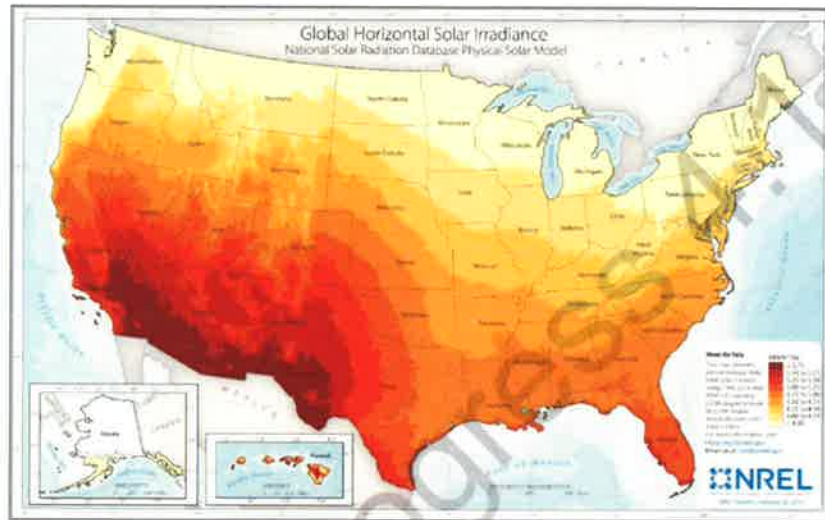
According to the U.S. Energy Information Administration (EIA) through July 2021, ± 130 solar facilities in operation that generate 100 MW AC or more of power. A map illustrating existing solar farms with capacities greater than 100 MW is presented below (indicated by yellow suns), using data retrieved from the Energy Information Administration (EIA).



To meet zoning and planning requirements, and/or to take advantage of certain incentive programs, several solar farms are built by the same developer around the same location, de facto functioning as one larger solar farm. Many of these solar facilities are located in California, with several located in Florida, Texas, Nevada, North Carolina, Arizona, Georgia and Utah. Additionally, these installations are typically located in outlying areas where site costs are lowest, and residential development and sales activity is minimal in these areas. While we reviewed each for surrounding uses, the majority are not good candidates for a paired sales analysis since they were either recently constructed or surrounding development/sales activity was minimal.

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In the United States, there are ±41 operating solar farms with generating capacities above 200 MW AC, presented below. All of the existing solar farms in operation as of July 2021 that have a generating capacity of greater than 200 MW AC are located in the southwestern United States, with the exception of the 200 MW Hillcrest Solar project in Ohio and the 204 MW Twiggs Solar Project in Georgia. This is due to economies of scale for reducing development costs by maximizing size in areas where there is maximum sunlight. The map developed by the National Renewable Energy Laboratory (NREL), presented next, shows the solar resources released by the sun daily throughout in the United States. Red indicates the areas with the most solar resources.



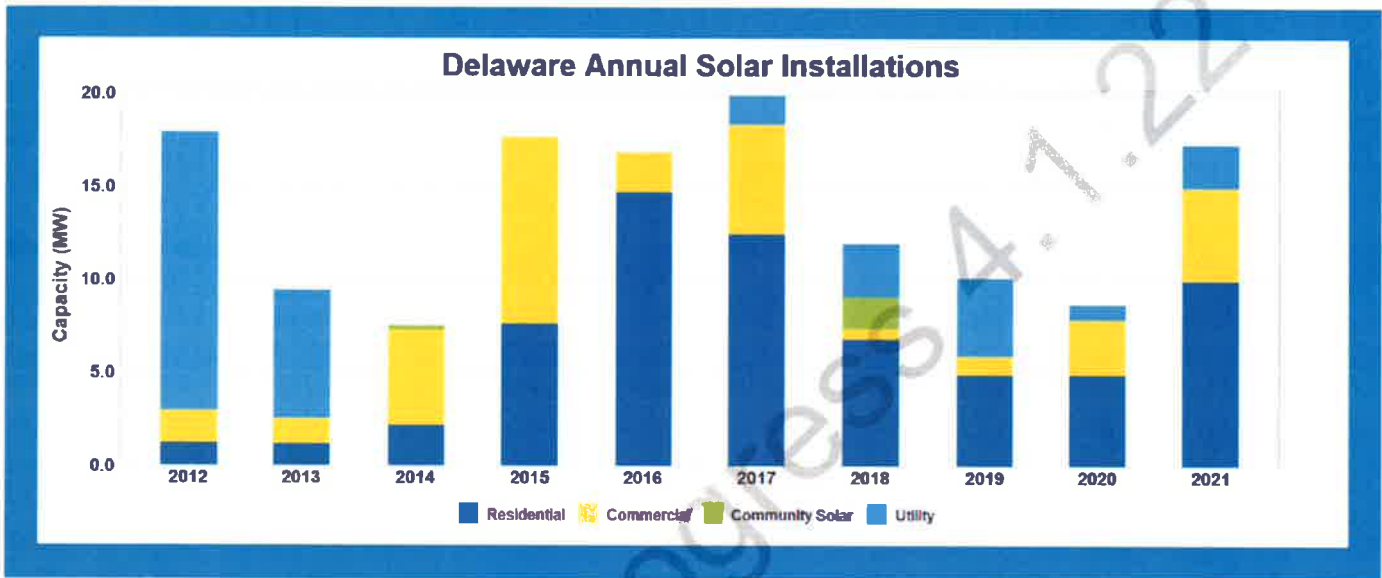
The map below has solar installations larger than 200 MW (marked by green suns) and shows that the largest solar installations have been built in areas where there are the most solar resources.



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ENERGY PRODUCTION IN DELAWARE

As of the end of 2021, Delaware had 38.1 MW of solar installed, ranking only 41st in the nation for the capacity of solar installed. There have been only 9.3 MW of solar power installed in the state since 2015. However, significantly more utility investments in clean energy are on the horizon, with 214 MW of solar proposed to be installed over the next two years, and the state is expected to have over 400 MW installed in five years.



Delaware currently has 12 non-residential solar facilities in service and two generate over 5 MW, totaling 21.8 MW of power in utility-scale facilities. Milford Solar Farm in Kent County generates the most power at 11.8 MW and was developed in 2012. The most recent facility to be developed became operational in 2021 with 1.3 MW in suburban Wilmington on the JP Morgan Chase office campus.

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APPRAISAL THEORY – ADAJCENT PROPERTY'S IMPACT ON VALUE

According to Randall Bell, PhD, MAI, author of text *Real Estate Damages*, published by the Appraisal Institute in 2016, understanding the market's perceptions on all factors that may have an influence on a property's desirability (and therefore its value) is essential in determining if a diminution or enhancement of value has occurred.⁵ According to Dr. Bell:

*"There is often a predisposition to believe that detrimental conditions automatically have a negative impact on property values. However, it is important to keep in mind that if a property's value is to be affected by a negative condition, whether internal or external to the property, that condition must be given enough weight in the decision-making process of buyers and sellers to have a material effect on pricing relative to all the other positive and negative attributes that influence the value of that particular property."*⁶

Market data and empirical research through the application of the three traditional approaches to value should be utilized to estimate the market value to determine if there is a material effect on pricing due, to the influence of a particular characteristic of or on a property.

A credible impact analysis is one that is logical, innate, testable and repeatable, prepared in conformity with approved valuation techniques. In order to produce credible assignment results, more than one valuation technique should be utilized for support for the primary method, or a check of reasonableness, such as utilization of more than one approach to value, conducting a literature review, or having discussions (testimony) with market participants.⁷ CohnReznick implemented the scientific method⁸ to determine if a detrimental condition of proximity to a solar farm exists, further described in the next section.

⁵ Bell, Randall, PhD, MAI. *Real Estate Damages*. Third ed. Chicago, IL: Appraisal Institute, 2016. (Pages 1-2)

⁶ Ibid, Page 314

⁷ Ibid, Pages 7-8

⁸ The scientific method is a process that involves observation, development of a theory, establishment of a hypothesis, and testing. The valuation process applies principles of the scientific method as a model, based upon economic principles (primarily substitution) as the hypothesis. The steps for the scientific method are outlined as follows:

1. Identify the problem.
2. Collect relevant data.
3. Propose a hypothesis.
4. Test the hypothesis.
5. Assess the validity of the hypothesis.

Bell, Randall, PhD, MAI. *Real Estate Damages*. Third ed. Chicago, IL: Appraisal Institute, 2016. (Pages 314-316)

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METHODOLOGY

The purpose of this report is to determine whether proximity to the solar facility resulted in any measurable and consistent impact on adjacent property values. To test this hypothesis, CohnReznick identified three relevant techniques to test if a detrimental condition exists.

- (1) A review of published studies;
- (2) Paired sale analysis of properties adjacent to existing solar generating facilities, which may include repeat sale analyses or “Before and After” analyses; and,
- (3) Interviews with real estate professionals and local real estate assessors.

The paired sales analysis is an effective method of determining if there is a detrimental impact on surrounding properties.

*“One of the most useful applications of the sales comparison approach is paired sale analysis. This type of analysis may compare the subject property or similarly impacted properties called **Test Areas** (at Points B, C, D, E, or F) with unimpaired properties called **Control Areas** (Point A). A comparison may also be made between the unimpaired value of the subject property before and after the discovery of a detrimental condition. If a legitimate detrimental condition exists, there will likely be a **measurable and consistent difference** between the two sets of market data; if not, there will likely be no significant difference between the two sets of data. This process involves the study of a group of sales with a detrimental condition, which are then compared to a group of otherwise similar sales without the detrimental condition.”⁹*

As an approved method, paired sales analysis can be utilized to extract the effect of a single characteristic on value. By definition, paired data analysis is “a quantitative technique used to identify and measure adjustments to the sale prices or rents of comparable properties; to apply this technique, sales or rental data on nearly identical properties is analyzed to isolate a single characteristic’s effect on value or rent.”¹⁰ The text further describes that this method is theoretically sound when an abundance of market data, or sale transactions, is available for analysis.

Where data is available, CohnReznick has also prepared “Before and After” analyses or a Repeat Sale Analysis,¹¹ to determine if a detrimental impact has occurred.

⁹ Bell, Randall, PhD, MAI. *Real Estate Damages. Third ed.* Chicago, IL: Appraisal Institute, 2016. (Page 33)

¹⁰ *The Appraisal of Real Estate 14th Edition.* Chicago, IL: Appraisal Institute, 2013.

¹¹ Another type of paired sales analysis involves studying the sale and subsequent resale of the same property. This method is used to determine the influence of time on market values or to determine the impact of a detrimental condition by comparing values before and after the discovery of the condition.

Bell, Randall, PhD, MAI. *Real Estate Damages. Third ed.* Chicago, IL: Appraisal Institute, 2016. (Page 35)

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SCOPE OF WORK

The scope of work utilized to test the hypothesis stated on the prior page is as follows:

1. Review published studies, assess credibility, and validity of conclusions;
2. Prepare paired sale analyses for existing solar farms as follows:
 - 2.1. Identify existing solar farms comparable to the proposed project to analyze;
 - 2.2. Define Test Area Sales and Control Areas Sales;
 - 2.3. Collect market data (sale transactions) for both Test Area and Control Area Sales;
 - 2.4. Analyze and confirm sales, including omission of sales that are not reflective of market value;
 - 2.5. Prepare comparative analysis of Test Area and Control Area sales, adjusting for market conditions;
 - 2.6. Interpret calculations; and
3. Conduct interviews with real estate professionals and local real estate assessors who have evaluated real property adjacent to existing solar farms.

It should be noted that our impact report data and methodology have been previously reviewed by our peer in the field – Kirkland Appraisals, LLC – as well as by the Solar Energy Industries Association (SEIA).

The following bullet points summarize important elements to consider in our scope of work:

- Due to the limited number of existing larger utility scale projects in the state of Delaware, we have incorporated other utility scale projects in other states.
- Test Area Sales consists of sales that are adjacent to an existing solar facility. Ownership and sales history for each adjoining property to an existing solar farm through the effective date of this report is maintained within our workfile. Adjoining properties with no sales data or that sold prior to the announcement of the solar farm were excluded from further analysis.
- Control Area Sales are generally located in the same market area, although varies based on the general location of the existing solar farm under analysis. In rural areas, sales are identified first within the township, and expands radially outward through the county until a reliable set of data points is obtained.
- Control Area Sales are generally between 12 and 18 months before or after the date of the Test Area Sale(s), and are comparable in physical characteristics such as age, condition, style, and size.
- Sales of properties that sold in a non-arm's length transaction (such as a transaction between related parties, bank-owned transaction, or between adjacent owners) were excluded from analysis as these are not considered to be reflective of market value, as defined earlier in this report. The sales that remained after exclusions were considered for a paired sale analysis.
- The methodology employed in this report for paired sale analysis does not rely on multiple subjective adjustments that are typical in many appraisals and single-paired sales analyses. Rather, the

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methodology remains objective, and the only adjustment required is for market conditions:¹² the analysis relies upon market conditions trends tracked by credible agencies such as the Federal Housing Finance Agency (“FHFA”), who maintains a House Price Index (“HPI”)¹³ for macro and micro regions in the United States. A market conditions adjustment is a variable that affects all properties similarly and can be adjusted for in an objective manner.

- To make direct comparisons, the sale price of the Control Area Sales was adjusted for market conditions to a common date. In this analysis, the common date is the date of the Test Area Sale(s). After adjustment, any measurable difference between the sale prices would be indicative of a possible price impact by the solar facility.
- If there is more than one Test Area Sale to evaluate, the sales are grouped if they exhibit similar transactional and physical characteristics; otherwise, they are evaluated separately with their own respective Control Area Sale groups.

¹² Adjusting for market conditions is necessary as described in The Appraisal of Real Estate 14th Edition as follows: “Comparable sales that occurred under market conditions different from those applicable to the subject on the effective date of appraisal require adjustment for any differences that affect their values. An adjustment for market conditions is made if general property values have increased or decreased since the transaction dates.”

¹³ The FHFA HPI is a weighted, repeat-sales index, meaning that it measures average price changes in repeat sales or refinancings on the same properties. This information is obtained by reviewing repeat mortgage transactions on single-family properties whose mortgages have been purchased or securitized by Fannie Mae or Freddie Mac since January 1975. The FHFA HPI serves as a timely, accurate indicator of house price trends at various geographic levels. Because of the breadth of the sample, it provides more information than is available in other house price indexes.

TECHNIQUE 1: REVIEW OF PUBLISHED STUDIES

The following is a discussion of various studies that consider the impact of solar farms on surrounding property values. The studies range from quantitative analysis to survey-based formal research to less-formal analyses.

ACADEMIC REPORTS

There have been three academic reports that attempt to quantify the effect on property values due to proximity to solar.

- i. The first report is a study completed by **The University of Texas at Austin**, published in May 2018.¹⁴ The portion of the study focusing on property impact was an Opinion Survey of Assessors with no sales data or evidence included in the survey. The opinion survey was sent to 400 assessors nationwide and received only 37 responses. Of those 37 assessors, only 18 had assessed a home near a utility-scale solar installation, the remainder had not. Of the 18 assessors with experience in valuing homes near solar farms, 17 had not found any impact on home values near solar. Those are the actual facts in the study. A small number of those assessor respondents hypothetically surmised an impact, but none had evidence to support such statements.

The paper admits that there is no actual sales data analyzed, and further denotes its own areas of weakness, including “This study did not differentiate between ground-mounted and rooftop installations.” The author states on the last line of page 22: **“Finally, to shift from perceived to actual property value impacts, future research can conduct analyses on home sales data to collect empirical evidence of actual property value impacts.”**

The paper concludes with a suggestion that a statistic hedonic regression model may better identify impacts. It should be noted that the type of statistical analysis that the author states is required to determine “*actual property value impacts*” was completed two years later by the following Academic Studies.

- ii. The second report is a study prepared by a team at the **University of Rhode Island**, published in September 2020, “*Property Value Impacts of Commercial-Scale Solar Energy in Massachusetts and Rhode Island.*”¹⁵ The study utilized a hedonic pricing model, or multiple regression analysis, to quantify the effect of proximity on property values due to solar by studying existing solar installations in Massachusetts and Rhode Island. The study evaluated 208 solar facilities, 71,373 housing sales occurring within one-mile of the solar facilities (Test Group), and 343,921 sales between one-to-three

¹⁴ Al-Hamoodah, Leila, et al. An Exploration of Property-Value Impacts Near Utility-Scale Solar Installations. Policy Research Project (PRP), LBJ School of Public Affairs, The University of Texas at Austin, May 2018, emp.lbl.gov/sites/default/files/property-value_impacts_near_utility-scale_solar_installations.pdf.

¹⁵ Gaur, V. and C. Lang. (2020). Property Value Impacts of Commercial-Scale Solar Energy in Massachusetts and Rhode Island. Submitted to University of Rhode Island Cooperative Extension on September 29, 2020. Accessed at <https://web.uri.edu/coopext/valuing-sitingoptions-for-commercial-scale-solar-energy-in-rhode-island/>.

miles (Control Group). Because it is a hedonic regression model, it allowed them to isolate specific variables that could impact value, including isolating rural and non-rural locations. The study defines “Rural,” as an area having a “population density of 850 people per square mile or fewer.”

The study provides data which found no negative impact to residential homes near solar arrays in rural areas: “these results suggest that [the Test Area] in rural areas **is effectively zero** (a statistically insignificant 0.1%), and that the negative externalities of solar arrays are only occurring in non-rural areas.”¹⁶ Further, the study tested to determine if the size of the installation impacted values, and found no evidence of differential property values impacts by the solar installation’s size.

Thus, not only are there no impacts to homes in similar areas as the proposed Project, but any differences in the size of a solar farm are similarly not demonstrating an impact.

- iii. The third report is a published study prepared by Dr. Nino Abashidze, School of Economics, Georgia Institute of Technology, dated October 20, 2020, entitled “*Utility Scale Solar Farms and Agricultural Land Values.*” Abashidze examined 451 solar farms in North Carolina. “Across many samples and specifications, we find **no direct negative or positive spillover effect of a solar farm construction on nearby agricultural land values.** Although there are no direct effects of solar farms on nearby agricultural land values, we do find evidence that suggests construction of a solar farm may create a small, positive, option-value for landowners that is capitalized into land prices. Specifically, after construction of a nearby solar farm, we find that agricultural land that is also located near transmission infrastructure may increase modestly in value.”

VALUATION EXPERT REPORTS

We have similarly considered property value impact studies prepared by other experts, which have also noted that the installation of utility-scale solar on a property has no measurable or consistent impact on adjoining property value. According to a report titled “Mapleton Solar Impact Study” from Kirkland Appraisals, LLC, conducted in Murfreesboro, North Carolina in September 2017, which studied 13 existing solar farms in the state, found that the solar farms had no impact on adjacent vacant residential, agricultural land, or residential homes. The paired sales data analysis in the report primarily consisted of low density residential and agricultural land uses and included one case where the solar farm adjoined to two dense subdivisions of homes.

Donald Fisher, ARA, who has served six years as Chair of the American Society of Farm Managers and Rural Appraisers, and has prepared several market studies examining the impact of solar on residential values was quoted in a press release dated February 15, 2021 stating, “Most of the locations were in either suburban or

¹⁶ The University of Rhode Island study’s conclusion that there may be an impact to non-rural communities is surmised is that “land is abundant in rural areas, so the development of some land into solar does little to impact scarcity, whereas in non-rural areas it makes a noticeable impact.”

rural areas, and all of these studies found either a neutral impact or, ironically, a positive impact, where values on properties after the installation of solar farms went up higher than time trends.”

REAL ESTATE ASSESSOR SOLAR IMPACT REPORTS

The Chisago County (Minnesota) Assessor’s Office conducted their own study on property prices adjacent to and in the close vicinity of the North Star solar farm in Chisago County, Minnesota. At the November 2017 Chisago County Board meeting, John Keefe, the Chisago County Assessor, presented data from his study. He concluded that the North Star solar farm had, “no adverse impact” on property values. His study encompassed 15 parcels that sold and were adjacent or in the close vicinity to the solar farm between January 2016 and October 2017; the control group used for comparison comprised of over 700 sales within the county. Almost all of the [Test Area] properties sold were at a price above the assessed value. He further stated that, “It seems conclusive that valuation has not suffered.”¹⁷

Furthermore, Grant County, Kentucky Property Value Administrator, Elliott Anderson, stated that Duke Energy built a solar farm near Crittenden, adjacent to existing homes on Claiborne Drive in December 2017. At the time of the interview, there have been nine arm’s length homes sales on that street since the solar farm commenced operations. Each of those nine homes sold higher than its assessed value, and one over 32 percent higher. At the time, Anderson noted that several more lots were for sale by the developer and four more homes were currently under construction. Anderson said that the solar farm had no impact either on adjoining home values or on marketability or desirability of those homes adjacent to the solar farm.

CONCLUSION

These published studies and other valuation expert opinions, conclude that there is no impact to property adjacent to established solar farms. These conclusions have been confirmed by academic studies utilizing large sales databases and regression analysis investigating this uses’ potential impact on property values. Further, the conclusion has been confirmed by county assessors who have also investigated this adjacent land use’ potential impact on property values.

¹⁷ Chisago County Press: County Board Real Estate Update Shows No “Solar Effects” (11/03/2017)

TECHNIQUE 2: PAIRED SALE ANALYSIS

SOLAR FARM 1: NORTH STAR SOLAR FARM, CHISAGO COUNTY, MINNESOTA

Coordinates: Latitude 45.486756, Longitude -92.884206

PINs: Multiple

Population Density (2020) Chisago County: 136 people per square mile (Largest City = North Branch)

Total Land Size: ±1,000 Acres

Date Project Announced: 2014

Date Project Completed: October 2016

Output: 100 MW AC



Overview and Surrounding Area:

The North Star Solar Farm is located approximately four miles southeast of the City of North Branch in unincorporated Chisago County, near the intersection of Route 69 and Route 72. The solar farm was developed by Community Energy Solar in 2016 and is the largest solar farm in the Midwest. The solar farm features 440,000

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solar panels and a power output capacity of 100 MW AC, which is enough to power 20,000 homes. The owner, North Star, LLC, has a 25-year purchase contract for the power produced by the project with Xcel Energy.

Chisago County lies on Minnesota's eastern border, abutting the western border of Wisconsin, across the Saint Croix River. The North Star Solar Farm is approximately 16 miles west of the border with Wisconsin and is just over one mile west of the Kost Dam public park and reservoir, a 28-acre park on the south branch of the Sunrise River.

The Immediate Area:

The North Star Solar Farm is adjoined by agricultural land to the north and west. To the south and east of the project there are several residential properties, including some located within the actual solar farm. The solar farm has agricultural and deer fencing around parts of the project. Additionally, native vegetation and trees previously existed as a buffer along the frontage roads.

Prior Use: Agricultural use

Real Estate Tax Information:

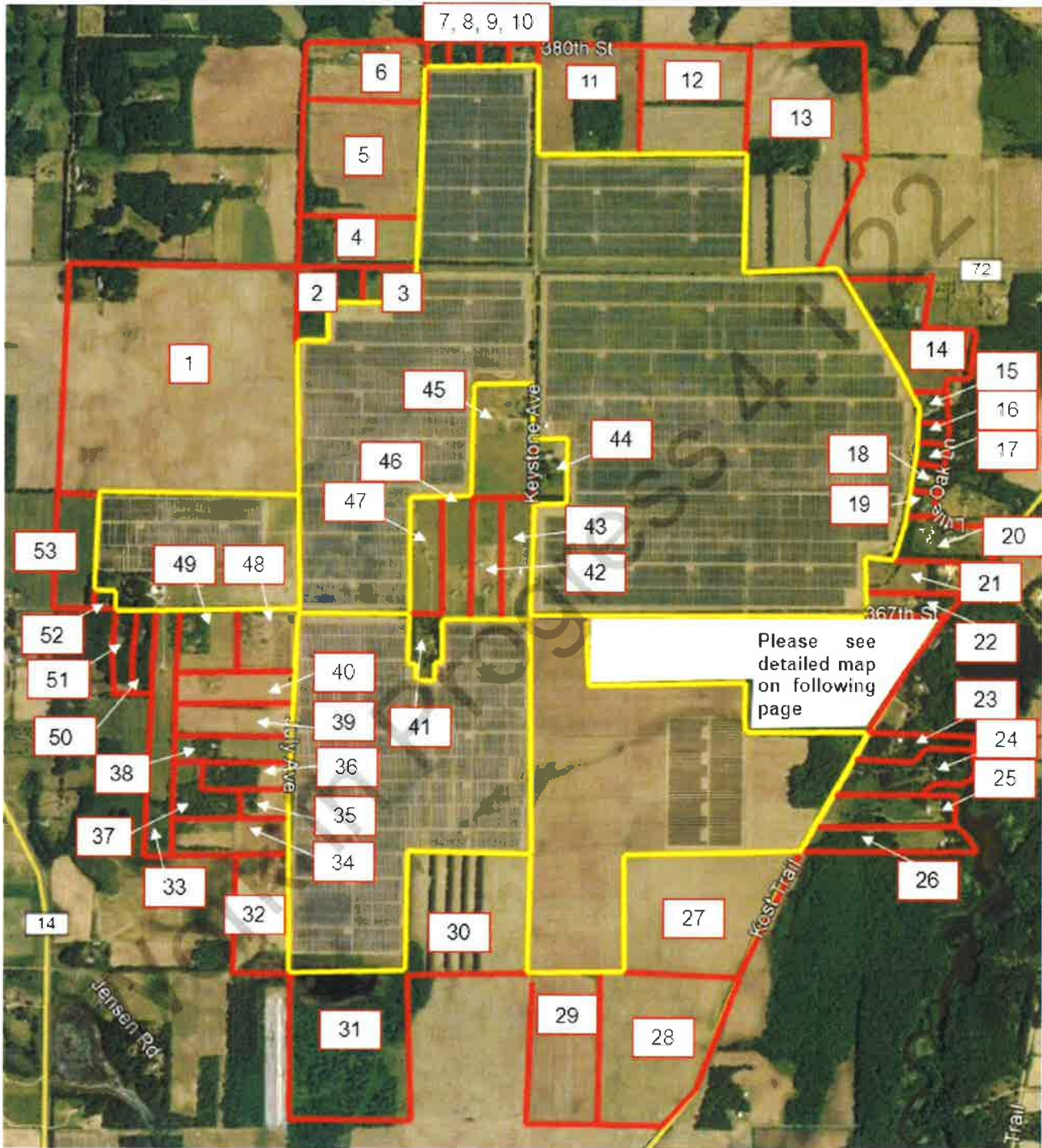
Prior to development of the solar farm, in 2015, this ±1,000-acre site paid real estate taxes of \$37,250, annually. After the solar farm development, in 2017, real estate taxes increased to \$112,856, a 203 percent increase in tax revenue for the site.

PIN	Acres	2015 Taxes Paid	2017 Taxes Paid	Tax Increase	2015 Assessed Value	2017 Assessed Value	Value Increase
Chisago County, MN							
09.00348.00	74.91	\$ 2,806	\$ 8,546	205%	\$ 198,800	\$ 233,900	18%
09.00349.00	74.30	\$ 2,818	\$ 8,578	204%	\$ 199,600	\$ 234,800	18%
09.00350.10	16.95	\$ 644	\$ 2,752	327%	\$ 45,600	\$ 75,300	65%
09.00351.10	68.01	\$ 3,260	\$ 9,806	201%	\$ 230,900	\$ 268,400	16%
09.00353.00	81.87	\$ 3,114	\$ 8,678	179%	\$ 220,500	\$ 237,500	8%
09.00354.00	121.84	\$ 4,578	\$ 13,324	191%	\$ 324,200	\$ 364,700	12%
11.00517.00	72.07	\$ 3,382	\$ 7,440	120%	\$ 194,400	\$ 224,100	15%
11.00528.00	66.42	\$ 1,460	\$ 6,836	368%	\$ 180,000	\$ 210,000	17%
11.00529.00	60.26	\$ 1,506	\$ 7,284	384%	\$ 168,700	\$ 168,800	0%
11.00726.00	40.55	\$ 1,010	\$ 3,968	293%	\$ 110,700	\$ 140,700	27%
11.00730.00	68.32	\$ 3,426	\$ 7,638	123%	\$ 315,700	\$ 338,200	7%
11.00731.00	160.83	\$ 3,598	\$ 17,924	398%	\$ 422,500	\$ 469,100	11%
11.00732.00	30.52	\$ 788	\$ 4,748	503%	\$ 84,900	\$ 109,500	29%
11.00732.10	10.00	\$ 4,860	\$ 5,334	10%	\$ 257,700	\$ 290,100	13%
TOTAL	946.85	\$ 37,250	\$ 112,856	203%	\$ 2,954,200	\$ 3,365,100	14%

Adjoining Properties:

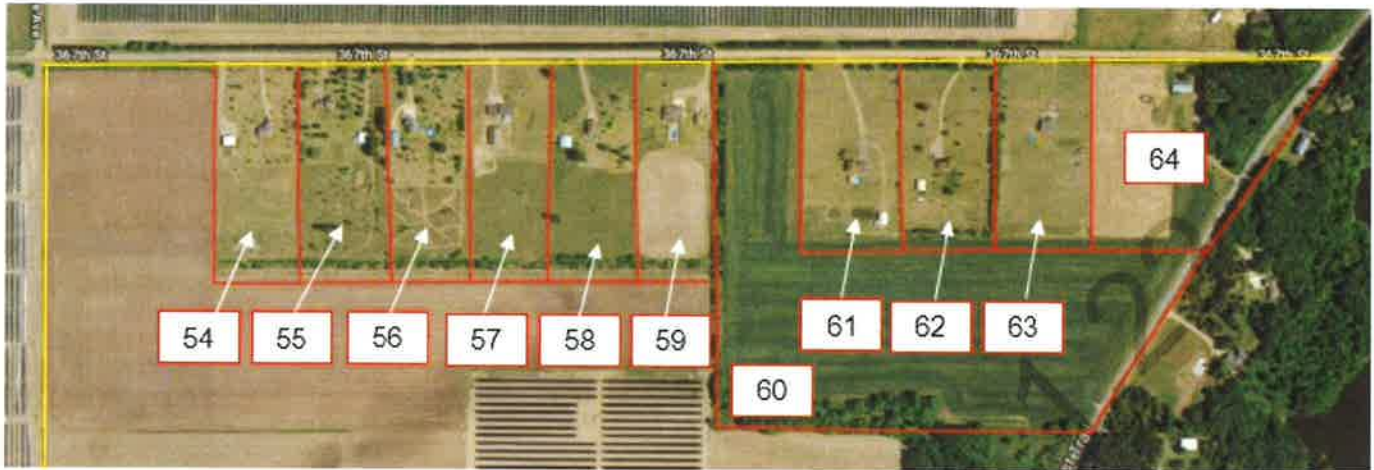
The maps on the following pages display the parcels that contain the solar farm (outlined in yellow). Properties adjoining the solar site (outlined in red) are numbered for subsequent analysis.

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North Star Solar Farm - Adjoining Properties

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North Star Solar Farm - Adjoining Properties

In reviewing Adjoining Properties to study in a Paired Sales Analysis, several properties and sales were considered but eliminated from further consideration as discussed below.

While assembling the solar development site, the developer of the solar farm acquired seven homes along 367th Street and Keystone Avenue, which we refer to as Adjoining Properties 41, 42, 43, 44, 45, 46, and 47, and are surrounded by the solar arrays. According to conversations with the solar developer, they purchased the homes prior to development to provide interim housing for employees as the solar farm was under construction or for potential use for the project area (which ultimately was not necessary). The developer had each home appraised, and then negotiated separately with each homeowner. All of the houses sold above their appraised values, which the developer considered to be an assemblage premium. After construction, the developer sold all seven homes at market prices, six to new buyers, and one, Adjoining Property 47, which was re-purchased by the original owner. Over a year later, these subsequent sales from the developer to individual homeowners were still higher than the originally appraised values. This indicates that the development of the North Star Solar Farm did not deter transactions nor affect sale prices in the surrounding area.

Clifford Sheppeck, broker at Keller Williams Classic, was hired by Renewable Energy Asset Co, LLC, the solar farm developer, to market and sell the remaining properties that the developer owned. We discussed these transactions with Mr. Sheppeck who indicated they all sold within two months, which was in line with the market.

In addition to the seven homes sold by the developer, we identified six other properties all which sold since the construction of the solar farm: Adjoining Properties 3, 10, 18, 19, 22, 38, 54, 57 and 64. In all, a total of 16 identified Adjoining Properties have sold during or since the construction of the solar farm. These properties are discussed further in the following sections.

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Properties Excluded from Paired Sales Analysis

Adjoining Property 10, located at 10270 380th Street, sold in June 2018 for \$163,800, or \$143.18 per square foot of finished living area. The property is improved with a small, single-story, modular/pre-fabricated home with no basement, which is atypical for the area. Most of the homes in the area, while similar in gross living areas, are one-story, single-family homes with finished basements. We conducted a search in the area for comparable modular homes without basements but did not find sufficient data yield reliable conclusions in a paired sale analysis. Additionally, this home does not appear to have been listed on the local MLS as we could not identify a broker contact for the most recent sale. We have reached out to the buyer and seller to confirm the nature of the transaction, but as of this writing, we have not made contact. We note that the home sold previously in July 2004; however, county sale records indicate the 2004 sale was between related parties which disqualifies it as an arm's length transaction. Due to limited sales in the area to categorize as Control Area Sales, Adjoining Property 10 was excluded from further analysis.

Adjoining Property 38, located at 36438 July Avenue, sold during construction of the solar farm in October 2015 for \$225,000, or \$117.68 per square foot of finished living area. It is a home designed specifically as a passive solar home, taking advantage of the same renewable energy potential of the North Star solar farm. The property is set back behind five acres of agricultural land and is secluded behind trees and operates as a mixed-use "hobby farm." This is a highly atypical use with no comparable sales which sold during construction; we have excluded the 2015 sale from paired sale analysis because we cannot separate any influence from construction on the sale price at that time. We note that the home sold previously in November 2003; however, we could not prepare a Before and After analysis utilizing this prior transaction as the most recent sale was marketed as a passive solar home. For these reasons, Adjoining Property 38 was excluded from further analysis.

Adjoining Property 41, located at 10095 367th Street, is subject to an existing 30-year lease for the southern 6.24 acres of the parcel for solar panels in the North Star solar farm. The property most recently sold in April 2021 for \$339,186 and previously in June 2017 for \$336,900. The sale of this property in May 2016 was to the solar developer for an above appraised value of \$365,000, which was an atypically motivated transaction. Because the property is a participating parcel in the solar farm, and due to the additional rental income from the land, this property was excluded from both paired sale and the Before and After Analysis.

Adjoining Property 44, located at 37083 Keystone Avenue, sold for \$257,000, or \$157.86 per square foot of finished living area, in August 2017 and is a one-story rambler style home with an unfinished basement. Sale listing materials indicated significant deferred maintenance, which would need to be accurately assessed in order to quantify an appropriate adjustment. Most comparable sales in the area either have finished or walk-out basements and no items of significant deferred maintenance. Due to limited comparable sales for this property, and the required adjustment for deferred maintenance, Adjoining Property 44 was excluded from a paired sales analysis. The prior sale of this property was in October 2016, to the solar developer for assemblage, for \$302,500. Because this home traded in an atypically motivated transaction in 2016, we have not included it in a Before and After analysis.

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Adjoining Property 45, located at 37206 Keystone Avenue, sold in June 2017 for \$290,000, or \$149.48 per square foot of finished living area, from the solar farm developer. The property is a split-entry home on over 20 acres. The home features an attached 3-car garage, a detached two-car garage with a finished second story, and a fenced in-ground pool. The County Assessor classified this property as agricultural due to its large acreage. Because this home is atypical (large acreage and pool) there were no comparable sales in the area and Adjoining Property 45 was excluded from further analysis. This home was previously purchased by the solar farm developer in July 2016 for \$450,000, an above market price, for assemblage during solar farm construction. After construction was complete, the home was sold in 2017 at a market-oriented price, in an average number of days listed on the Multiple Listing Service (MLS). Because this home traded in an atypically motivated transaction in 2016, we have not included it in a Before and After analysis.

Adjoining Property 47, located at 10090 367th Street, most recently sold in March 2018 for \$302,500, or \$127.53 per square foot of finished living area, from the solar farm developer. This home was previously purchased by the solar farm developer in August 2016 for \$360,800, an above market price, for assemblage during solar farm construction. According to the broker, Cliff Sheppeck, the original owner leased the house back from the developer after the sale, never moved out, and was hired to do maintenance and upkeep on the other six houses the developer purchased in the area. When the developer no longer needed the property, he sold it back to the original owner in 2018 at a market-oriented price. Because of the relationship between the parties in 2018 and 2016, we have not included it in a Paired Sales Analysis nor a Before and After analysis.

Properties Included in Paired Sales Analysis

Adjoining Property 3, located at 10009 375th Street, sold most recently in July 2019 for \$260,000, or \$172.41 per square foot of finished living area. This property is improved with a one-story, modular/pre-fabricated home in the rambler style, with an English basement, on just over five acres of land. Although this home sold most recently in July 2019 for \$260,000, it had also sold in March 2016 for \$219,900, during construction of the solar farm. The home previously sold in March of 2005 for \$163,000. We have excluded the 2016 sale from paired sale analysis because we cannot separate any influence from construction on the sale price at that time. However, we can calculate the average monthly appreciation from 2005 to 2019 (+0.27 percent), which is higher than the average monthly home price appreciation in the same zip code of 55056 - according to the FHFA Housing Price Index (discussed in more detail later), local home appreciation was 0.0 percent per month over the same period. It is evident that the home value increased at a higher rate than homes in the local area over the same period. This information is also presented in the Before and After Analysis later in the study of the North Star solar farm. The buyer's broker in the 2019 sale, Gail Reinhard, noted that the buyer had no concerns or issues with the home's proximity to the solar farm and the price paid was market oriented. This home qualified for a paired sales analysis and was studied in Group 4, as detailed on subsequent pages.

Adjoining Property 18, located at 37096 Little Oak Lane, sold in April 2017 for \$289,000, or \$119.82 per square foot of finished living area. The home is a rambler style, one-story, home with a finished walk-out basement on a 2.07-acre parcel. The improvements on this property are located approximately 225 feet from the nearest solar panel. The buyer's broker, Amy Lamb, noted that the home was in good shape and had been on the market for two years, because the seller would not lower the price to market levels during previous listings. In the summer,

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Lamb noted, the solar panels were barely visible from the back of the property, but in winter they were visible. Lamb asked the buyers if the solar panel view would be a problem and their opinion was that the neighboring solar panels meant no other development that created traffic or noise would be built to disturb them. This home qualified for a paired sales analysis and was studied in Group 2, as detailed on subsequent pages. We have also studied this property in a Before and After analysis later in this report as it also sold in 2006, prior to construction of the North Star solar farm. The average monthly change in value from 2006 to 2017 (-0.05 percent) is higher than the average monthly home price appreciation in the same zip code of 55056 according to the FHFA Housing Price Index, which was -0.10 percent per month over the same period. It is evident that the home's value reflects a better rate from the prior sale than homes in the local area over the same period.

Adjoining Property 19, located at 37056 Little Oak Lane, sold in August 2021 for \$435,000, or \$205.09 per square foot of finished living area. The property was listed for approximately 14 days on the market before going under contract. The home is a split-level style house on 2.37 acres. The improvements on this property are located approximately 280 feet from the nearest solar panel. This property also sold previously in June 2013 for \$208,000 before the solar farm was constructed. The average monthly appreciation from 2013 to 2021 (+0.76 percent) was higher than the average monthly home price appreciation in the same zip code, per the FHFA Housing Price Index, of 0.58 percent per month over the same period. The data indicates the home value increased at a higher rate than homes in the local area over the same period. This information is also presented in the Before and After Analysis later in the study of the North Star solar farm. This home qualified for a paired sales analysis and was studied in Group 5, as detailed on subsequent pages.

Adjoining Property 22, located at 11210 367th Street, sold in April 2021 for \$430,000, or \$114.48 per square foot of finished living area. The property was listed on the market for 5 days before going under contract and sold \$5,000 above its asking price. It is a rambler built in 1974 with a full finished basement and has some ancillary farm buildings on a 5.2 acre site. This property also sold previously in March 2015 for \$280,000 during the construction of the solar farm and December 2003 for \$107,000 before the solar farm was constructed. We have excluded the 2015 sale from paired sale analysis, due to the influence from construction on the sale price at that time but have analyzed the 2021 sale in our analysis. This sale's average monthly appreciation from 2003 to 2021 (+0.67 percent), is higher than the average monthly home price appreciation in the same zip code, per the FHFA Housing Price Index of 0.12 percent per month over the same period. This demonstrates that the Target home value increased at a higher rate than homes in the local area over the same period. This information is also presented in the Before and After Analysis later in the study of the North Star solar farm. Additionally, the most recent sale of the Adjoining Property 22 was studied in Group 6, as detailed on subsequent pages.

Adjoining Property 42, located at 10200 367th Street, sold in November 2017 for \$330,000, or \$151.93 per square foot of finished living area. The home is a split-level style house on 9.30 acres. The improvements on this property are approximately 393 feet from the nearest solar panel. This home qualified for a paired sales analysis and was studied in Group 1, as detailed on subsequent pages. This home was previously purchased by the solar farm developer in July 2016 for \$387,900, an above market price, for assemblage during solar farm construction. After construction was complete, the home was sold in 2017 at a market-oriented price, in an average number of days listed on the Multiple Listing Service (MLS). Because this home traded in an atypically motivated transaction in 2016, we have not included it in a Before and After analysis. However, this property also sold previously in

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October 2004 for \$309,900 before the solar farm was constructed. The average monthly appreciation from 2004 to 2017 (+0.04 percent) is higher than the average monthly home price appreciation in the same zip code, per the FHFA Housing Price Index, of -0.02 percent per month over the same period. This home's value increased at a higher rate than homes in the local area over the same period. This information is also presented in the Before and After Analysis later in the study of the North Star solar farm.

Adjoining Property 43, located at 10254 367th Street, sold for \$335,000 in July 2017, for \$156.84 per square foot of finished gross living area, and is a split-level home with an atypical floor design. Most of the homes in the area, while having similar gross living areas, are one-story, single-family homes with basements. We conducted a search in the area for comparable above-grade, split level homes. Mr. Sheppeck was the listing broker for this property and confirmed its atypical nature. He indicated that it sold at a price that was in-line with the market even though split-level, two story homes are considered to be rare in the area. However, we were able to find comparably designed sales in the area, and have included the sale within our analysis, studied in Group 7, as detailed on subsequent pages. The prior sale of this property was to the solar developer for assemblage during construction for \$535,000, an above market price, in July 2016. Because this home traded in an atypically motivated transaction in 2016, we have not included this transaction a Before and After analysis. However, this property also sold previously in November 2005 for \$373,000 before the solar farm was constructed. The average monthly change in value from 2005 to 2017 (-0.08 percent) was the same as the average monthly home price appreciation in the same zip code, according to the FHFA Housing Price Index over the same period. This information is also presented in the Before and After Analysis later in the study of the North Star solar farm.

Adjoining Property 46, located at 10132 367th Street, sold most recently in December 2020 for \$415,000, or \$196.87 per square foot of finished living area. The home is a split-level style house on 9.31 acres. The home features an attached 3-car heated garage, an 816 square foot detached heated garage, and a 1,400 square foot outbuilding. The improvements on this property are approximately 330 feet from the nearest solar panel. This home also sold in October 2017 for \$333,000 from the solar developer who had purchased it in September 2016 for \$387,900, an above market price, for assemblage during solar farm construction. After construction was complete, the home was sold in 2017 at a market-oriented price, in an average number of days listed on the Multiple Listing Service (MLS). This home qualified for a paired sales analysis and was studied in Group 1 (2017 sale), and in Group 3 (2020 sale), as detailed on subsequent pages. Because this home traded in an atypically motivated transaction in 2016, we have not included the 2016 sale in a Before and After analysis. However, this property also sold previously in July 2001 for \$226,800 before the solar farm was constructed. The average monthly appreciation from 2001 to 2017 (+0.20 percent) is higher than the average monthly home price appreciation in the same zip code according to the FHFA Housing Price Index, which was +0.08 percent per month over the same period. This information is also presented in the Before and After Analysis later in the study of the North Star solar farm.

Adjoining Property 54, located at 10505 367th Street, sold in August 2016 for \$260,500, or \$137.83 per square foot of finished living area. The home is a split-level style house on 5.0 acres. The improvements on this property are located approximately 352 feet from the nearest solar panel. The sale of the property was at the end of the construction period, which completed in October 2016, after majority of the project infrastructure was completed; thus, we have incorporated this sale in the analysis. This home qualified for a paired sales analysis and was

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studied in Group 1, as detailed on subsequent pages. We have also studied this property in a Before and After analysis later in this report as it also sold in 1999 for \$123,294, prior to construction of the North Star solar farm. The average monthly appreciation from 1999 to 2016 (+0.36 percent) is higher than the average monthly home price appreciation in the same zip code, according to the FHFA Housing Price Index, which was +0.15 percent per month over the same period. This information is also presented in the Before and After Analysis later in the study of the North Star solar farm.

Adjoining Property 57, located at 10655 367th Street, sold in November 2018 for \$304,900, or \$101.63 per square foot of finished living area. The home is a split-level style house on 5.0 acres. The home has an opportunity for a purchaser to add two baths (roughed in at the time of sale), two bedrooms, a family room, and storage in the lower level. We spoke with Jenna Bruski, the listing agent, who indicated that the improvements are unique, and could be divided into two separate dwelling units. According to the agent, the price paid reflected a slight discount because it required a specific buyer to undertake the build-out project on the lower level. It was on the market for a few months, but it was not unreasonable for the asset given its characteristics. Additionally, the agent indicated that potential purchasers did not mention the adjacency to the solar panels; there was no impact on the sale price because of adjacency to the panels. The improvements on this property are located approximately 285 feet from the nearest solar panel. This home qualified for a paired sales analysis and was studied in Group 9, as detailed on subsequent pages.

Adjoining Property 64, located at 36640 Kost Trail, sold in December 2019 for \$310,000, or \$139.70 per square foot of finished living area. The property is an above-grade, two-story home and has a partially finished basement, on 9.29 acres of land. The property also includes a detached 2-car garage and a pole barn. Jeff Turbeville, broker at Edina Realty Inc., explained this two-story home style is atypical in the area. However, we have identified comparable Control Area Sales and Adjoining Property 64 was studied in Group 8, as detailed on subsequent pages.

Paired Sales Analysis

Group 1

We analyzed three split-level homes that sold between 2016 and 2017 that were located adjacent to the North Star solar farm.

North Star Solar Test Area Sales - Group 1									
Adj. Property #	Address	Sale Price	Site Size (AC)	Beds	Baths	Year Built	GLA (SF)	Sale Date	Price PSF
54	10505 367th St	\$260,500	5.00	3	2	1999	1,890	Aug-16	\$137.83
42	10200 367th St	\$330,000	9.30	4	3	2003	2,172	Nov-17	\$151.93
46	10132 367th St	\$333,000	9.31	4	3	2001	2,108	Oct-17	\$157.97
Median		\$330,000	9.30	4	3	2001	2,108	Oct-17	\$151.93

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Throughout our analysis we have relied on square footage data from the Chisago County Assessor's office for home sizes. We have included above-grade and finished below-grade square footage in our calculations as the market in this area considers finished square feet on every level to be livable. Split-level homes and those with basements or walkout basements are prevalent in this area. We note that the square footage for Adjoining Property 42 is shown on the MLS real estate listing from 2017 as being 2,350, we have utilized the Assessor's livable square footage of 2,172 in our analysis.

We analyzed 11 Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sales, which were not located in close proximity to the solar farm.

The Control Area Sales for Group 1 are split-level homes with either 3 or 4 bedrooms and 1.5 to 4 bathrooms. We excluded sales that were bank-owned, those between related parties, or others under duress as non-arm's length transactions.

When adjusting sale prices for market conditions (time between date of Test Area Sale and Control Area Sale date) throughout this analysis we have used regression analysis to identify the appropriate monthly market conditions adjustment. We utilized the Federal Housing Finance Agency House Price Index (FHFA HPI) for the zip code 55056, the zip code of all Test Area and Control Area Sales, for the compounded monthly rate of appreciation. The FHFA HPI is a broad measure of the movement of single-family house prices. The FHFA HPI is a weighted, repeat-sales index, meaning that it measures average price changes in repeat sales or re-financings on the same properties. The FHFA HPI serves as a timely, accurate indicator of house price trends at various geographic levels.¹⁸ We adjusted Group 1 Control Area Sales using the FHFA HPI for the period from 2016 through 2017.

The results of our analysis for Group 1 are presented following.

¹⁸ <https://www.fhfa.gov/DataTools/Downloads/Pages/House-Price-Index.aspx>

CohnReznick Paired Sale Analysis North Star Solar Group 1		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (3)	Adjoining solar farm	\$151.93
Control Area Sales (11)	No: Not adjoining solar farm	\$139.50
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		8.91%

We note a somewhat large positive difference in adjusted median price per square foot between the median of the Test Area Sales and the Control Area Sales. The price differential is likely attributable to the larger parcel sizes of the Test Area Sales, which range from 5.00 acres to 9.31 acres. The Control Area Sales home sites range from 2.29 to 7.10 acres, with a median of 5.0 acres. Control Area Sales with lot sizes that bracketed the Test Area Sales on the high side did not transact during the period studied but the properties are considered comparable. **The sale prices of Adjoining Properties in Group 1 were not negatively impacted by the homes' proximity to the North Star solar farm.**

We note that the median unit sale price of the most recent sales of each of the excluded adjoining properties identified previously is \$141.44 per square foot. As indicated above, the included Test Area Sales have a median unit price of \$151.93 per square foot. Inclusion of the excluded adjoining property sales would not have made a conclusive impact on the conclusions of the paired sale analysis.

Group 2

We analyzed Adjoining Property 18, a single-story, rambler style home that sold in 2017.

North Star Solar Test Area Sale - Group 2									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median GLA (SF)	Median Sale Date	Median Price PSF
18	37096 Little Oak Ln	\$289,000	2.07	4	3.0	2001	2,412	Apr-17	\$119.82

We analyzed 10 Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sale, which were not located in close proximity to the solar farm.

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Adjoining Property 18 sits on a somewhat small lot for the home size in this area. So as to capture homes that bracket the Test Area Sale home size, those ranging from 1,700 square feet to 3,400 square feet of finished gross living area were included. The parameters of our search for Control Area Sales were widened to include lot sizes between 1 and 10 acres.

The Control Area Sales for Group 2 are rambler style homes with 4 bedrooms and 2 to 4 bathrooms on less than 10-acre parcels. We excluded sales that were bank-owned, those between related parties, or others under duress as non-arm's length transactions. We adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index for the zip code, for the period from 2016 through 2018.

CohnReznick Paired Sale Analysis North Star Solar Group 2		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$119.82
Control Area Sales (10)	No: Not adjoining solar farm	\$116.33
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		3.00%

Noting no significant price differential, it does not appear that the North Star solar farm had any negative impact on adjacent property value in Group 2.

Group 3

Adjoining Property 46 was analyzed as a 2017 sale in Group 1 and sold again most recently in December 2020.

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Photo of 10132 367th Street (Adjoining Property 46) with view of solar arrays from 2020 MLS listing

North Star Solar Test Area Sale - Group 3									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median GLA (SF)	Median Sale Date	Median Price PSF
46	10132 367th St	\$415,000	9.31	4	3.0	2001	2,108	Dec-20	\$196.87

We analyzed ten Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sale, which were not located in close proximity to the solar farm.

The Control Area Sales for Group 3 are split-level style homes and similar with 4 bedrooms and 2 or 3 bathrooms on one to ten acre parcels. We excluded sales that were bank-owned, those between related parties, or others under duress as non-arm's length transactions. We adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index, for the period from 2018 through mid-year 2021 (the most recent data available). The results of our analysis are presented next.

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CohnReznick Paired Sale Analysis North Star Solar Group 3		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Adjoining solar farm	\$196.87
Control Area Sales (10)	No: Not adjoining solar farm	\$151.73
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		29.75%

We note that the sale price of the 2020 sale of Adjoining Property 46 is one of the highest for this home type (split-level) in all the County Assessor data from 2016 to year to date 2021 for North Branch and Sunrise Townships. However, the selling broker, Candace Rindahl, remarked that the price was market for the area at the time of sale. We see this in a study of the rate of appreciation over the course of three years between the prior sale and most recent sale. Adjoining Property 46 appreciated at a higher rate than the local area, as seen in the following table.

Test Area Sale										55056 Zip Code FHFA Housing Price Index Change	
Property ID	Address	Land Area (Acres)	Total Finished Living Area (SF)	Most Recent Sale Date	Most Recent Sale Price	Prior Sale Date	Prior Sale Price	Total Appreciation	Monthly Appreciation Rate	Total Appreciation	Monthly Appreciation Rate
AP 46	10132 367th St	9.31	2,108	12/20/20	\$415,000	10/20/17	\$333,000	24.62%	0.58%	17.43%	0.42%

We note a somewhat large positive difference in adjusted median price per square foot between the Test Area Sale and the Control Area Sales. The most comparable Control Area Sale, 6836 410th Street, sold for an adjusted sale price per square foot of \$193.35, reflecting a difference of 1.8 percent to the unit sale price of the Test Area Sale. We find that on a macro and micro level of analysis, **the sale price of Adjoining Property 46 (Group 3) was not negatively impacted by its proximity to the North Star solar farm.**

The differential between the Test Area Sale and the Control Area Sales is much higher than any of our other studies; we have considered this to be an outlier. While the indication shows that the adjacent solar farm has not negatively impacted the property value for this home, we have considered that this house has “set the market” for this kind of property type (home style, age and acreage) – we believe that this differential will likely stabilize in the near future as other homes catch up to the appreciation shown by Adjoining Property 46. Thus, we have not included this Group in the collection of impact studies in our conclusion.

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Group 4

We analyzed Adjoining Property 3, a single-story, rambler style home that sold in 2019.

North Star Solar Test Area Sale - Group 4									
Adj. Property #	Address	Sale Price	Site Size (AC)	Bedrooms	Bathrooms	Year Built/ Renovated	GLA (SF)	Sale Date	Price PSF
3	10009 375TH ST	\$260,000	5.05	3	2.5	1980 / 2005	1,508	Jul-19	\$172.41

We analyzed seven Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sale, which were not located in close proximity to the solar farm.

Adjoining Property 3 sits on a somewhat large lot for the home size in this area. So as to capture homes that bracket the Test Area Sale home size, those ranging from 1,200 to 2,000 square feet of finished gross living area were included. The parameters of our search for Control Area Sales were widened to include lot sizes between 2 and 7 acres.

The Control Area Sales for Group 4 are rambler style homes with 2 to 4 bedrooms and 2 to 3 bathrooms on less than 7-acre parcels but greater than 2 acre parcels. We excluded sales that were bank-owned, those between related parties, or others under duress as non-arm's length transactions. We adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index, for the period from 2018 through 2020.

CohnReznick Paired Sale Analysis North Star Solar Group 4		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Adjoining solar farm	\$172.41
Control Area Sales (7)	No: Not adjoining solar farm	\$170.86
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		0.91%

Noting no significant price differential, it does not appear that the North Star solar farm had any negative impact on adjacent property value in Group 4.

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Group 5

We analyzed Adjoining Property 19, a split level-style home that sold in 2021. While this sale is not yet published in the Chisago County Assessor's data, the sale has been recorded in the public record and the MLS.

North Star Solar Test Area Sale - Group 5									
Adj. Property #	Address	Sale Price	Site Size (AC)	Bedrooms	Bathrooms	Year Built/ Renovated	GLA (SF)	Sale Date	Price PSF
19	37056 LITTLE OAK LN	\$435,000	2.37	4	3.0	2001	2,121	Aug-21	\$205.09

We analyzed eight Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sale, which were not located in close proximity to the solar farm.

So as to capture homes that bracket the Test Area Sale home size, those ranging from 1,500 to 2,500 square feet of finished gross living area were included. The parameters of our search for Control Area Sales were widened to include lot sizes between 2 and 6 acres.

The Control Area Sales for Group 5 are split level homes with 3 to 5 bedrooms and 2 to 3 bathrooms on less than 6-acre parcels but greater than 2 acre parcels. We adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index, for the period from 2019 through mid-year 2021 (the most recent data available).

CohnReznick Paired Sale Analysis North Star Solar Group 5		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Adjoining solar farm	\$205.09
Control Area Sales (8)	No: Not adjoining solar farm	\$170.88
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		20.02%

Noting no significant negative price differential, it does not appear that the North Star solar farm had any negative impact on adjacent property value in Group 5. We note that the sale price of the 2021 sale of Adjoining Property 19 is one of the highest for this home type (split-level) in all the County Assessor data from 2016 to year to date 2021 for North Branch and Sunrise Townships. We see this in a study of the rate of appreciation between the prior sale and most recent sale. Adjoining Property 19 appreciated at a higher rate than the local area, as seen in the following table.

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Test Area Sale										55056 Zip Code FHFA Housing Price Index Change	
Property ID	Address	Land Area (Acres)	Total Finished Living Area (SF)	Most Recent Sale Date	Most Recent Sale Price	Prior Sale Date	Prior Sale Price	Total Appreciation	Monthly Appreciation Rate	Total Appreciation*	Monthly Appreciation Rate
AP 19	37056 Little Oak Lane	2.37	2,121	8/20/21	\$435,000	6/21/13	\$208,000	109.13%	0.76%	75.96%	0.58%

*The 2021 HPI for the zip code is not available as of the report date. The estimate presented relies on the index for 2020, grown by the 2021 trend for the census region on a monthly basis through August 2021.

Group 6

We analyzed Adjoining Property 22, a rambler style home that sold in 2019. We note this site has a large lower-level with a second full kitchen, which is much larger than surrounding homes in the same marketplace.

North Star Solar Test Area Sale - Group 6									
Adj. Property #	Address	Sale Price	Site Size (AC)	Bedrooms	Bathrooms	Year Built/Renovated	Finished GLA (SF)	Sale Date	Price PSF
22	11210 367TH ST	\$430,000	5.34	4	2.5	1975	3,756	Apr-21	\$114.48

We analyzed four Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sale, which were not located in close proximity to the solar farm.

Adjoining Property 22 sits on a large lot for the home size in this area. So as to capture homes that bracket the Test Area Sale home size, those ranging from 3,200 to 5,000 square feet of finished gross living area were included. The parameters of our search for Control Area Sales include lot sizes between 1 and 10 acres.

Comparable sales of large rambler-style homes on larger lots with finished basements were less prevalent in Sunrise and North Branch Townships. The Control Area Sales for Group 6 are rambler style homes with 4 to 6 bedrooms on less than 10-acre parcels but greater than 1 acre parcels. We adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index, for the period from 2020 through mid-year 2021 (the most recent data available).

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CohnReznick Paired Sale Analysis North Star Solar Group 6		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Adjoining solar farm	\$114.48
Control Area Sales (4)	No: Not adjoining solar farm	\$120.49
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		-4.99%

One of the Control Area Sales located at 44869 John Avenue reflects an adjusted unit value of \$114.96 per square feet of finished gross living area, or a differential of -0.42 percent, which is considered nominal. While the unique characteristics of the Test Area Sale (Adjoining Property 22) result in what we consider to be an outlier in the marketplace, it does not appear that the North Star solar farm had any negative impact on adjacent property value in Group 6.

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Group 7

We analyzed Adjoining Property 43, which is a split-level style home that sold in 2017.

North Star Solar Test Area Sale - Group 7									
Adj. Property #	Address	Sale Price	Site Size (AC)	Bedrooms	Bathrooms	Year Built/ Renovated	GLA (SF)	Sale Date	Price PSF
43	10254 367TH ST	\$335,000	9.29	3	2.5	2005/2009	2,136	Oct-17	\$156.84
Median		\$335,000	9.29	3	2.5	2005/2009	2,136	Oct-17	\$156.84

We analyzed 11 Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sale, which were not located in close proximity to the solar farm.

Adjoining Property 43 sits on a large lot for the home size in this area. So as to capture homes that bracket the Test Area Sale home size, those ranging from 1,500 square feet to 2,500 square feet of finished gross living area were included. The parameters of our search for Control Area Sales were widened to include lot sizes between 2 and 10 acres.

The Control Area Sales for Group 7 are generally split-level homes with 3 to 4 bedrooms and 2 to 3 bathrooms on less than 10-acre parcels, but greater than 2 acre parcels. We adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index, for the period from 2016 through 2019.

CohnReznick Paired Sale Analysis North Star Solar Group 7		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Adjoining solar farm	\$156.84
Control Area Sales (11)	No: Not adjoining solar farm	\$135.63
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		15.64%

Noting no significant negative price differential, it does not appear that the North Star solar farm had any negative impact on adjacent property value in Group 6. Homes in this area are typically on 2 to 5 acre lot sizes. One home sale at 40723 Lowden Ave, an 1,896 square foot split level home built in 1999 on 10.1 acres, sold for a unit price of \$152.43 per square foot, unadjusted, in June 2018, or \$146.92 per square foot after adjustments for market conditions. This reflects a variance of 6.8 percent, which does not indicate a diminution in price.

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Group 8

We analyzed Adjoining Property 64, a two-story home that sold in 2019.

North Star Solar Test Area Sale - Group 8									
Adj. Property #	Address	Sale Price	Site Size (AC)	Bedrooms	Bathrooms	Year Built/ Renovated	GLA (SF)	Sale Date	Price PSF
64	36640 KOST TRL	\$310,000	8.13	4	3.0	1987 / 2003	2,219	Dec-19	\$139.70

We analyzed five Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sale, which were not located in close proximity to the solar farm.

Adjoining Property 64 sits on a somewhat large lot for the home size in this area. So as to capture homes that bracket the Test Area Sale home size, those ranging from 1,500 square feet to 2,500 square feet of finished gross living area, the parameters of our search for Control Area Sales were widened to include lot sizes between 2 and 10 acres.

The Control Area Sales for Group 8 are two story homes with 3 to 4 bedrooms and 1.5 to 3 bathrooms on less than 10-acre parcels but greater than 2 acre parcels. We adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index, for the period from 2018 through 2020.

CohnReznick Paired Sale Analysis North Star Solar Group 8		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Adjoining solar farm	\$139.70
Control Area Sales (5)	No: Not adjoining solar farm	\$132.68
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		5.29%

Noting no significant price differential. it does not appear that the North Star solar farm had any negative impact on adjacent property value in Group 8.

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Group 9

We analyzed Adjoining Property 57, a split-level home with a partially finished lower level that sold in 2018. The home has an opportunity for a purchaser to add two baths (roughed in at the time of sale), two bedrooms, a family room, and storage in the lower level. While the lower level is not fully finished, a purchaser would likely evaluate the sale price against comparables based on the potential gross living area, inclusive of the cost to complete the build-out. We have relied on this unit of comparison in our analysis.

North Star Solar Test Area Sale - Group 9									
Adj. Property #	Address	Sale Price	Site Size (AC)	Bedrooms	Bathrooms	Year Built/Renovated	GLA (SF)	Sale Date	Price PSF
57	10655 367TH ST	\$304,900	5.00	3	4.0	1998	3,000	Nov-18	\$101.63

We analyzed eight Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sale, which were not located in close proximity to the solar farm.

Adjoining Property 57 sits on a somewhat large lot for the home size in this area. So as to capture homes that bracket the Test Area Sale home size, those ranging from 2,648 square feet to 4,324 square feet of finished gross living area were included. The parameters of our search for Control Area Sales were widened to include lot sizes between approximately 1 and 7 acres.

The Control Area Sales for Group 9 are split level and rambler homes with lower levels, with 3 to 5 bedrooms and 2 to 4 bathrooms on less than 7-acre parcels but greater than approximately 1 acre parcels. We adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index, for the period from 2017 through 2019.

CohnReznick Paired Sale Analysis North Star Solar Group 9		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Adjoining solar farm	\$101.63
Control Area Sales (8)	No: Not adjoining solar farm	\$103.95
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		-2.22%

Noting no significant price differential, it does not appear that the North Star solar farm had any negative impact on adjacent property value in Group 9.

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Repeat Sales Analysis (Before and After Construction of the Solar Farm)

In a 2017 study conducted by Chisago County Assessor John Keefe, Keefe analyzed the sales of 15 homes alongside or near the North Star Solar Farm that sold between January 2016 and October 2017. Based on trends exhibited by 750+ sales throughout the county, Keefe concluded that the homes, located on 375th, 367th, Keystone, Little Oak, Lincoln Trail, and Kost Trail were all “in excess of assessed” and reported that “valuation hasn’t suffered.”¹⁹

Considering Keefe’s 2017 study, we conducted a supplemental analysis in which we compared the sale prices of homes that are in our Test Area Groups that are adjacent to the North Star Solar Farm to the previous sale price of the home, commonly known as a “Repeat Sales Analysis” utilizing a sale and resale of the same property. These sales reflect the average site size, home type, and home size of properties in the surrounding area. In our comparison for each property analyzed, we calculated the total appreciation between each sale, the number of months that elapsed between each sale, and determined the monthly appreciation rate for the property. We then compared the extracted monthly appreciation rates to the change in the Federal Housing Finance Agency (FHFA) Home Price Index in Minnesota’s 55056 zip code (where the studied homes are located) over the same period. The index for zip codes is measured on a yearly basis and is presented to the right. We note, there were two Test Area Sales which transacted in April and August 2021. The FHFA Home Price Index (HPI) by zip code does not have 2021 data available as of the report date since the calendar year has not completed. We have analyzed the FHFA Home Price Index, not seasonally adjusted, for the West North Central region of the USA, which includes Minnesota, and have estimated the percentage increase from December 2020 to each April and August 2021 by the corresponding monthly change for the West North Central census division.

55056 Zip Code - Housing Price Index Change (Year Over Year) Not Seasonally Adjusted			
Year	Annual Index	Annual Change (%)	Compounded Monthly Change (%)
1991	100.00		
1992	101.15	1.15%	0.10%
1993	105.00	3.81%	0.31%
1994	110.54	5.28%	0.43%
1995	121.51	9.92%	0.79%
1996	127.27	4.74%	0.39%
1997	134.29	5.52%	0.45%
1998	141.08	5.06%	0.41%
1999	149.86	6.22%	0.50%
2000	169.13	12.86%	1.01%
2001	187.18	10.67%	0.85%
2002	200.83	7.29%	0.59%
2003	212.82	5.97%	0.48%
2004	226.83	6.58%	0.53%
2005	246.73	8.77%	0.70%
2006	251.83	2.07%	0.17%
2007	243.35	-3.37%	-0.29%
2008	223.07	-8.33%	-0.72%
2009	196.72	-11.81%	-1.04%
2010	179.99	-8.50%	-0.74%
2011	163.09	-9.39%	-0.82%
2012	155.38	-4.73%	-0.40%
2013	165.02	6.20%	0.50%
2014	175.59	6.41%	0.52%
2015	187.02	6.51%	0.53%
2016	203.03	8.56%	0.69%
2017	220.28	8.50%	0.68%
2018	235.98	7.13%	0.58%
2019	248.44	5.28%	0.43%
2020	258.67	4.12%	0.34%

We conducted the same analysis for 38 single-family Control Group properties that had repeat sales that are not within proximity to the North Star Solar Farm. The tables on the following page present this study. The applied same estimation for the HPI for the Control Area Sales that sold in 2021.

Some homes experienced depreciation between sale dates. During the calendar years of 2005, 2006 and 2007, housing prices in the United States were reaching their peak. In 2006

¹⁹ <https://www.cleanenergyresourceteams.org/chisago-county-boards-real-estate-update-shows-solar-has-no-impact-property-values>

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the HPI for the zip code reached 251.83, a record at that time. Post-recession homes prices, after 2008 continued to fall until 2012, the effective bottom at 155.38, a drop of more than 38% in market value over 6 years from the peak. The market did not recover to the same or higher levels until 2019 and 2020. When the homes sold in 2017 and 2016, respectively, the housing market had not fully recovered in the area and the negative appreciation tracks with the overall market conditions.

Table: Test Area Sales Group. Columns include Property ID, Address, Land Area (Acres), Total Finished Living Area (SF), Most Recent Sale Date, Most Recent Sale Price, Prior Sale Date, Prior Sale Price, Total Appreciation, Months Elapsed Between Sales, Monthly Appreciation Rate, 55056 Zip Code - FHFA Housing Price Index Change (Index Level, Prior Sale Year Index, Total Appreciation, Monthly Appreciation Rate). Rows include AP 3 through AP 54 and a Median row.

Table: Control Area Sales Group. Columns include Property ID, Address, Land Area (Acres), Total Finished Living Area (SF), Most Recent Sale Date, Most Recent Sale Price, Prior Sale Date, Prior Sale Price, Total Appreciation, Months Elapsed Between Sales, Monthly Appreciation Rate, 55056 Zip Code - FHFA Housing Price Index Change (Index Level, Prior Sale Year Index, Total Appreciation, Monthly Appreciation Rate). Rows include G1-1 through G9-8 and a Median row.

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Most home sites outside of a subdivision in this area are within the 2.00- to 5.00-acre range, as shown in the Control Area Sales table above. The median gross living area for each group differs by approximately 160 square feet of living area; however, the analysis described in this section, does not require adjustments to the sales as we are evaluating the difference in appreciation rates between a sale and resale of the same property.

Conclusion

In our analysis of 102 resales of homes adjacent to the North Star Solar facility and in the surrounding area, when compared to the FHFA home price index for the local zip code, the median monthly appreciation rate of the Test Area Sales group and the Control Area Sales group both outperformed the average for the zip code, as depicted in the far-right column in the tables on the prior page. Additionally, there is no discernable difference between the median rates of appreciation for the Test Area Sales compared to the Control Area Sales. As such, we concur with Assessor Keefe's conclusion that there does not appear to be a consistent detrimental impact on properties adjacent to the North Star Solar Farm.

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SOLAR FARM 2: DOMINION INDY SOLAR III, MARION COUNTY, IN

Coordinates: Latitude 39°39'14.16"N, Longitude 86°15'35.06"W

PIN: 49-13-13-113-001.000-200

Population Density (2019) Marion County: 2,434 people per square mile (Largest City = Indianapolis)

Total Land Size: 129.04 acres

Date Project Announced: August 2012

Date Project Completed: December 2013

Output: 8.6 MW AC (11.9 MW DC)



Aerial imagery retrieved from Google Earth

Overview and Surrounding Area:

The Dominion Indy III Solar Farm was developed by Dominion Renewable Energy and became operable in December 2013. This solar farm has ground-mounted solar panels and has the capacity for 8.6 Megawatts (MW) AC of power. The panels are mounted in a fixed tilt fashion with 12 inverters.

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The Dominion Indy III solar farm is located in Decatur Township, in the southwest portion of Marion County, Indiana. The solar farm is approximately 10 miles southeast of the Indianapolis International Airport and approximately eight and a half miles from the center of Indianapolis.

The Immediate Area:

The solar installation is on the southern side of West Southport Road. Adjoining parcels to the west, south, and east are agricultural in nature, actively farmed primarily with row crops and large areas of mature trees. There is one single family home on 4.78 acres of land at the northwest corner of the solar site, with frontage on West Southport Road, identified in our analysis as Adjoining Property 9.

To the north, across West Southport Road from the solar site, is the single-family residential subdivision known as Crossfield. Originally developed with over 81 acres of land by the Key Life Insurance Company, the one- and two-story homes in the subdivision were built between approximately 1998 and 2011.

All of the adjacent land parcels to the solar farm are used for agricultural or residential purposes.

The solar farm is surrounded by a chain link fence that contains all the solar panels. Additionally, there are some natural shrubs and deciduous trees on all sides of the property; this vegetation was in place before the solar farm was developed.

Prior Use: Agricultural use

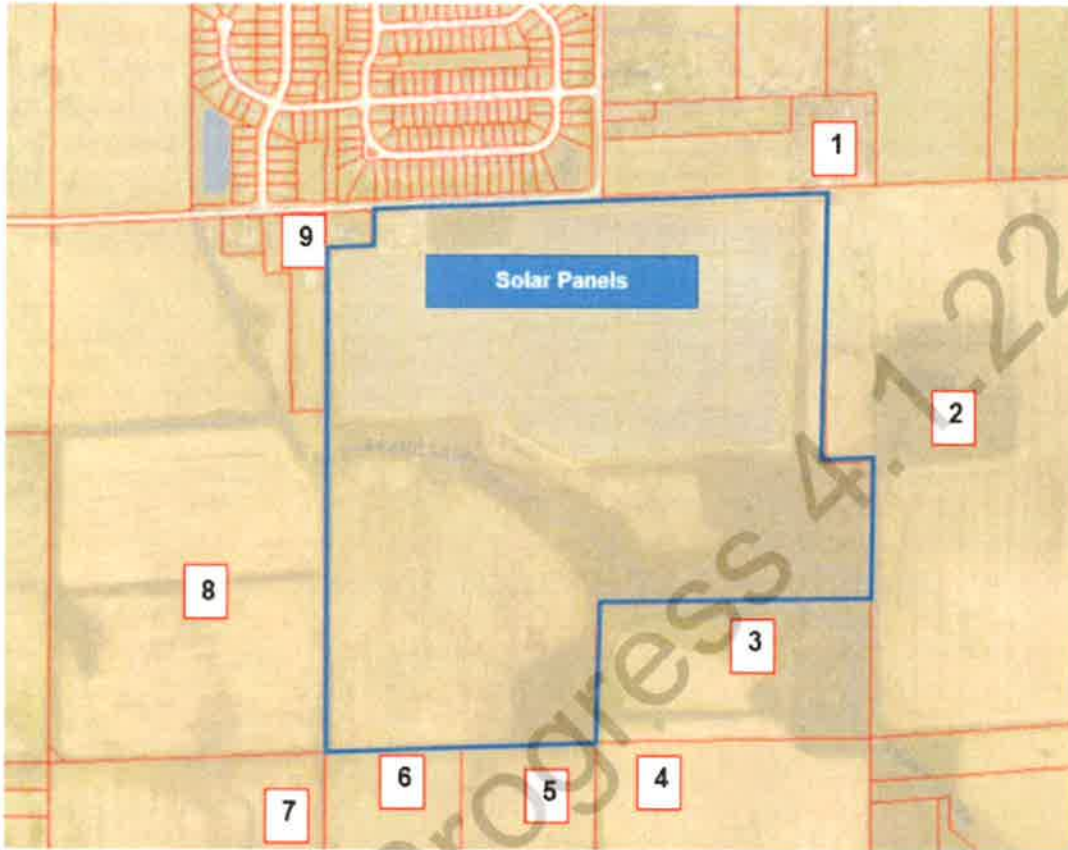
Real Estate Tax Information: Prior to development of the solar farm, in 2013, the owner of this 129-acre site paid real estate taxes of \$1,788 annually. After development of the solar farm development, in 2015, real estate taxes increased to approximately \$16,405, an 818 percent increase in tax revenue for the site.

PIN	Acres	2013 Taxes Paid	2015 Taxes Paid	Tax Increase	2013 Assessed Value	2015 Assessed Value	Value Increase
Marion County, IN 49-13-13-113-001.000-200	129.04	\$ 1,788	\$ 16,405	818%	\$ 89,400	\$ 109,900	23%
TOTAL	129.04	\$ 1,788	\$ 16,405	818%	\$ 89,400	\$ 109,900	23%

Paired Sale Analysis:

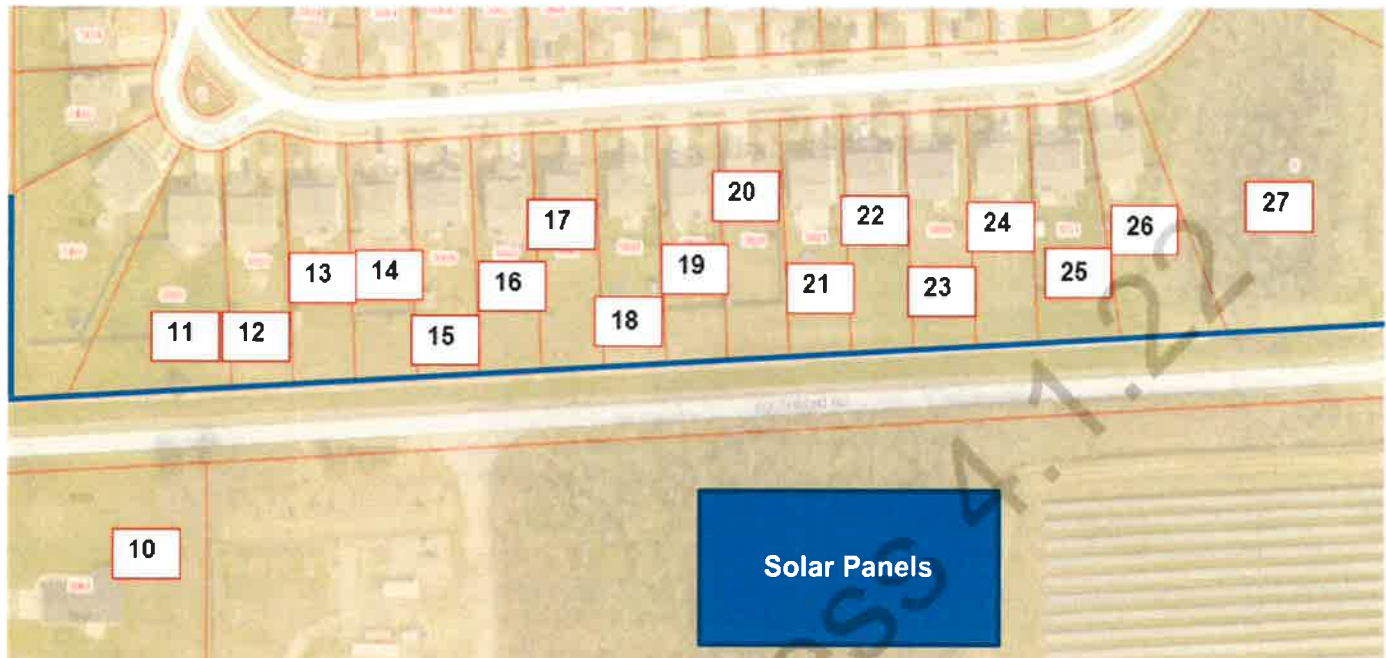
The maps on the following pages display the parcels within the solar farm is located (outlined in blue). Properties adjoining this site are numbered for subsequent analysis.

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Dominion Indy III - Adjoining Properties

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Dominion Indy III - Adjoining Properties

We have considered two types of paired sales analysis with regards to the Dominion Indy III Solar Farm. The first compares sales of Adjoining Properties to the solar farm after the completion of the solar farm site (Test Area Sales) to similar properties not proximate to the solar farm (Control Area Sales). We utilized this type of paired sale analysis for all three Groups of Adjoining Properties under study.

The second type of paired sale analysis is known as a Before and After analysis which compares sales of Adjoining Properties that occurred prior to the announcement of the solar farm with the sales of the same Adjoining Properties after the completion of the solar farm development. We were able to use home sale data from the Crossfield subdivision that is located to the north of the solar site, across West Southport Road.

Group 1 – Agricultural Land

Adjoining Property 2 is a vacant 86.96-acre agricultural parcel located to the east of the solar site. Adjoining Property 2 sold in October 2017 and was considered for a paired sale analysis, known as a Test Area Sale, in Group 1.

The property line of this unimproved parcel is approximately 166 feet from the closest solar panel. The following table outlines the other important characteristics of Adjoining Property 2.

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Test Area Sale Group 1 - Agricultural Land								
Adjoining Property #	Address	Sale Price	Site Size (AC)	NCCPI Index	Wetlands	Floodplain	Sale Price/AC	Sale Date
Adjoining Property 2	5755 W Southport Rd, Indianapolis, IN	\$738,584	89.96	63.4	1%	Zone X	\$8,210	Oct-17

Crop yields have been the basis for establishing a soil productivity index, and are used by county assessors, farmers, and market participants in assessing agricultural land. While crop yields are an integral part in assessing soil qualities, it is not an appropriate metric to rely on because “yields fluctuate from year to year, and absolute yields mean little when comparing different crops. Productivity indices provide a single scale on which soils may be rated according to their suitability for several major crops under specified levels of management such as an average level.” The productivity index, therefore, not crop yields, is best suited for applications in land appraisal and land-use planning.

The United States Department of Agriculture’s (USDA) National Resources Conservation Services (NRCS) developed and utilizes the National Commodity Crop Productivity Index (NCCPI) as a national soil interpreter and is used in the National Soil Information System (NASIS), but it is not intended to replace other crop production models developed by individual states.²⁰ The focus of the model is on identifying the best soils for the growth of commodity crops, as the best soils for the growth of these crops are generally the best soils for the growth of other crops.²¹ The NCCPI model describes relative productivity ranking over a period of years and not for a single year where external influences such as extreme weather or change in management practices may have affected production. At the moment, the index only describes non-irrigated crops, and will later be expanded to include irrigated crops, rangeland, and forestland productivity.²²

Yields are influenced by a variety of different factors including environmental traits and management inputs. Tracked climate and soil qualities have been proven by researchers to directly explain fluctuations in crop yields, especially those qualities that relate to moisture-holding capacity. Some states such as Illinois have developed a soil productivity model that considers these factors to describe “optimal” productivity of farmed land. Except for these factors, “inherent soil quality or inherent soil productivity varies little over time or from place to place for a specific soil (map unit component) identified by the National Cooperative Soil Survey (NCSS).”²³ The NRCS Web Soil Survey website has additional information on how the ratings are determined. The **State of Indiana** does not have its own crop production model and utilizes the NCCPI.

²⁰ Agricultural land rental payments are typically tied to crop production of the leased agricultural land and is one of the primary reasons the NCCPI was developed, especially since the model needed to be consistent across political boundaries.

²¹ Per the User Guide for the National Commodity Crop Productivity Index, the NCCPI uses natural relationships of soil, landscape and climate factors to model the response of commodity crops in soil map units. The present use of the land is not considered in the ratings.

²² AgriData Inc. Docs: [http://support.agridatainc.com/NationalCommodityCropProductivityIndex\(NCCPI\).ashx](http://support.agridatainc.com/NationalCommodityCropProductivityIndex(NCCPI).ashx)

²³ USDA NRCS's User Guide National Commodity Crop Productivity Index (NCCPI)

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In analyzing agricultural land sales for Control Area Sales with similar characteristics to Adjoining Property 12, we have excluded any parcels with NCCPI soil indices less than 50.0 and greater than 85.0.

We identified and analyzed four Control Area Sales that were comparable in location, size, and use that were not located in close proximity to the solar farm. The Control Area Sales for Adjoining Property 2 are land tracts that were larger than 20 acres and utilized specifically as farmland. We excluded sales that were bank-owned, those between related parties, split transactions, and land with significant improvements.

The Control Area Sales were adjusted for market conditions using a regression and trend analysis to identify the appropriate monthly market condition adjustment. Using the agricultural land sale data published in the *Land Sales Bulletin*,²⁴ from January 2016 through December 2017, which includes reliable and credible data for analysis, we extracted a monthly rate of change of 0.50 percent.

The results of our analysis for Adjoining Property 2, in Group 1 is presented below.

CohnReznick Paired Sale Analysis Dominion Indy III Solar Group 1 - Agricultural Land		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per Acre
Test Area Sale (Adjoining Property 2)	Yes: Solar Farm was completed by the sale date	\$8,210
Control Area Sales (4)	No: Not adjoining solar farm	\$8,091
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		1.47%

It is noted that we have kept this analysis within our study despite it being the sole land-only analysis. While we have not tabulated the difference in our reconciled average of variance (from study to study), this is important because it shows that agricultural land adjacent to solar but also lying in the future path of development does not show any degradation of value.

Noting the relatively low price differential, in which the Test Area Sale was higher than the median for the Control Areas Sales, it does not appear that the Dominion Indy III solar farm had any negative impact on the adjoining agricultural property values.

We identified a total of nine Adjoining Properties that sold after the development of the solar farm as single-family home uses. Adjoining Properties 11, 13, 14, 15, 18, 20, 22, 24 and 26 were analyzed in two paired sales analyses

²⁴ <https://www.landsalesbulletin.com/>

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(Group 2 and Group 3). These nine properties were analyzed as single-family homes and they are located in the Crossfield subdivision, across West Southport Road from the solar site, as seen in the prior aerials.

It should be noted that Adjoining Properties 11 and 24 have sold more than once since the solar farm was constructed, and each sale is included in the analysis. Adjoining Property 11 sold first in December 2015 and later in July 2018, approximately two and a half years later. Adjoining Property 24 sold first in February 2014 and later in April 2019, approximately five years later. Our research indicated that these were arm's-length sales between typically motivated buyers and sellers.

The nine Adjoining Properties that were included in our paired sales analysis were divided into two groups, based on the sale dates of the Test Area Sales.

Group 2

For Group 2 (sales occurring between 2014 – 2016), we analyzed four Control Area Sales with similar location, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Group 2 Test Area Sales described below.

Dominion Indy III Solar Test Area Sales Group 2									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median Square Feet	Median Sale Date	Median Price PSF
11, 20, 22, 24	5933 Sable Dr, 5829 Sable Dr, 5813 Sable Dr, 5737 Sable Dr	\$129,375	0.23	4	2.0	2008	2,163	Jul-15	\$59.10

The Test Area Sales in Group 2 are located between 230 feet and 404 feet from the house to the solar panels. The Control Area Sales for Group 2 are located beyond this area in other areas of the Crossfield subdivision and in other nearby subdivisions. The Control Area Sales did not have a view of the solar farm.

Group 3

For Group 3 (sales between 2017 - 2019), we analyzed a set of seven Control Area Sales with similar locations, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Group 3 Test Area Sales described on the next page.

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Test Area Sales Group 3									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median Square Feet	Median Sale Date	Median Price PSF
11, 13, 14, 15, 18, 24, 26	5933 Sable Dr, 5921 Sable Dr, 5921 Sable Dr, 5915 Sable Dr, 5909 Sable Dr, 5841 Sable Dr, 5737 Sable Dr, 5731 Sable Dr	\$169,900	0.23	3	2.5	2006	2,412	Jul-18	\$72.15

The Test Area Sales in Group 3 are located between 227 feet and 419 feet from the house to the solar panels. The Control Area Sales are located beyond this area, in other areas of the Crossfield Subdivision, and in other nearby subdivisions. The Control Area Sales did not have a view of the solar farm.

Control Area Sales in Groups 2 and 3 were adjusted for market conditions using a regression analysis to identify the appropriate monthly market condition adjustment. The results of our study are presented below.

CohnReznick Paired Sale Analysis Dominion Indy III Solar Group 2		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (4)	Adjoining solar farm	\$59.10
Control Area Sales (8)	No: Not adjoining solar farm	\$57.84
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		2.18%

CohnReznick Paired Sale Analysis Dominion Indy III Solar Group 3		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (7)	Adjoining solar farm	\$72.15
Control Area Sales (11)	No: Not adjoining solar farm	\$71.69
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		0.65%

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The Test Area Sales for Group 2 sold with a median of 33 days on market, while the Control Area Sales for Group 2 sold with a median of 31 days on market. The Test Area Sales for Group 3 sold with a median of 17 days on market, while the Control Area Sales for Group 3 sold with a median of 25 days on market. There is no **significant negative marketing time differential**.

Noting the relatively low price differentials, it does not appear that the Dominion Indy III solar farm has had any negative impact on adjoining residential property values.

Before Announcement and After Construction of the Solar Farm Analysis:

Due to the number of sales over time in the Crossfield subdivision, we were able to conduct an analysis on the unit prices of single-family homes before the solar farm announcement date in comparison to the prices of single-family homes after the construction of the Dominion Indy III solar farm. We have provided our conclusions from the data below and the following page contains a chart with the data.

- 25 Test Area Sales were sold from 2006 to 2019 and 46 Control Area Sales sold from 2008 to 2019.
 - The Test Area Sales are homes located adjoining the Dominion Indy III Solar Farm in the Crossfield subdivision.
 - The Control Area Sales are homes located in the remainder of the Crossfield subdivision, not adjoining the solar farm.
- In both the Test Area Sales (ORANGE) and Control Area Sales (BLUE) plotted on the chart on the following page, new construction homes sold through 2011, prior to announcement of the solar farm.
- The dotted lines are polynomial trend lines plotted by Microsoft Excel in order to illustrate and approximate the "average" trend of each set of data.
- The economic climate improved in the period from 2013 to 2019 as shown by the red line representing the Federal Housing Finance Agency's House Price Index for the East North Central region that includes Indiana. After construction of the solar farm, in parallel with the improving economic climate, it appears that unit prices for both the Test Area Sales and the Control Area Sales appreciated at a similar rate over the period from 2013 to 2019.

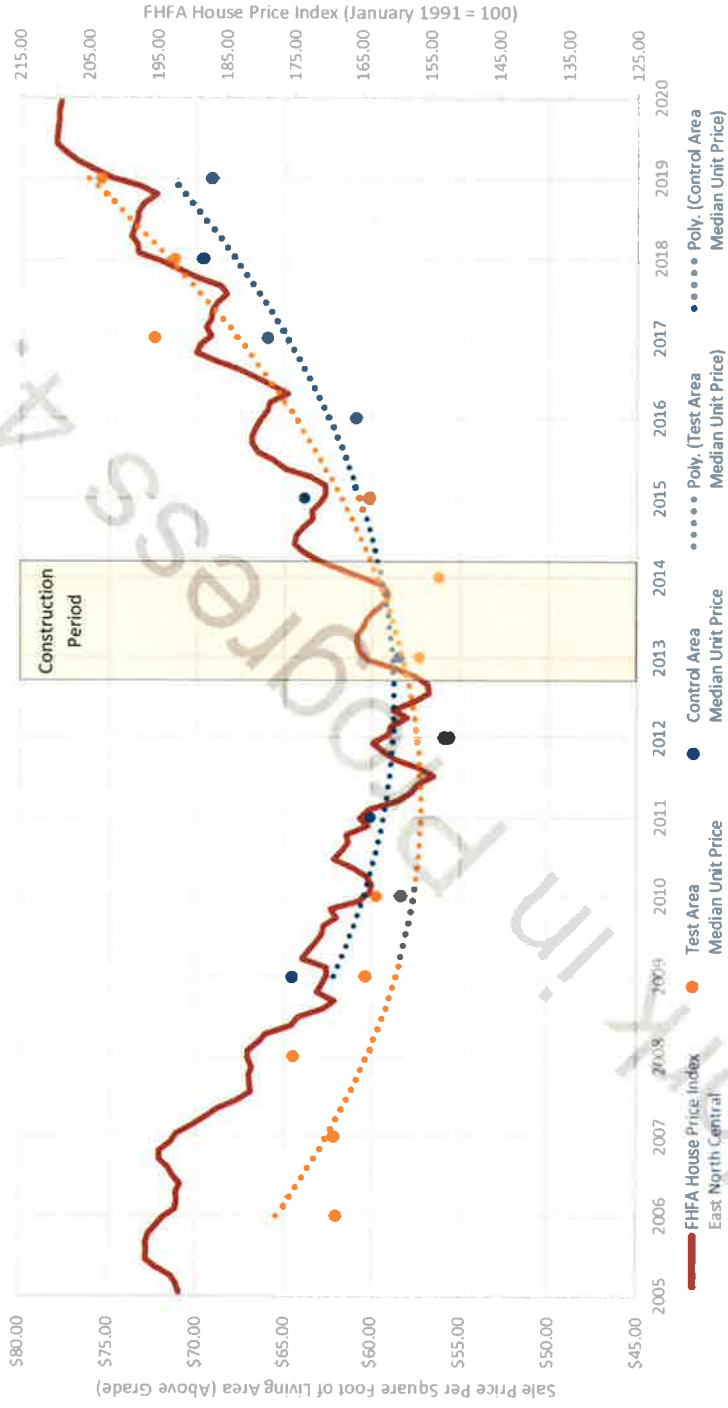
A difference in appreciation rates does not appear to exist between Test Area Sale homes versus the Control Area Sale homes.

Sale prices of single-family homes after the construction of the solar farm exhibit a similar appreciation trend as sales prior to the solar farm announcement. Overall, our findings indicate that there *is not a consistent and measurable difference* in prices that exists in association with homes proximate to the Dominion Indy III solar farm.

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Before Announcement and After Construction of the Solar Farm Analysis:

Dominion Indy III - Crossfield Subdivision:
Test Area vs Control Area Comparison of Unit Sale Prices from 2006 to 2019



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SOLAR FARM 3: DOUGHERTY SOLAR, DOUGHERTY COUNTY, GEORGIA

Coordinates: Latitude 31.305614, Longitude 84.022637

PIN: 00144/00001/03D, 00120/00001/007,00146/00001/01B

Population Density (2019) Dougherty County: 288 people per square mile (Largest City = Albany)

Total Land Size: ±1,280.93 Acres

Date Project Announced: August 2018

Date Project Completed: November 2019

Output: 120 MW AC



Aerial imagery retrieved from Google Earth

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The 120 MW AC capacity, Dougherty Solar project was developed by NextEra in 2019. This solar site is expected to generate \$10 million in tax revenue over its lifetime. The project sits on a ±1,037.42-acre site which was a former agricultural land site. Georgia Power signed a 30-year Power Purchase Agreement with NextEra Energy to buy the solar generated power and NextEra Energy owns and maintains the installation. The solar facility consists of 5,232 rows of support beams for 440,535 solar panels.

The Surrounding Area: The Dougherty County Solar project is located in unincorporated Dougherty County, with a city of Albany mailing address, Georgia. Georgia Route 3 (Liberty Expressway) is approximately 4.5 mile west of the solar site, and connects the surrounding area to downtown Albany, which is approximately 8 miles northwest of the solar site. We note the nearest interstate, Interstate 75, is approximately 31 miles east of the solar site. The surrounding area is rural in nature with agricultural and low density residential uses surrounding the property.

The Immediate Area: Within a one-mile radius of the solar farm, surrounding uses mainly consist of agricultural land, with some single-family homes to the south and the northwest. Adjacent land parcels to the solar farm are mainly residential, with some agricultural uses. Additional surrounding land uses are an industrial use to the southeast of the southern-most panels. The majority of the residential housing is located to the south of the solar site, along Spring Flats Road, with some homes located along Gaissert Road to the northeast.

The solar site is built on a large, mostly flat agricultural site. The site is bounded by Spring Flats Road and Moultrie Road to the south with single family homes along these roads, agricultural land to the west, vacant land to the east, and agricultural land and more single family homes to the north. The adjoining homes sites are all buffered from the solar site by mature trees, bushes, and other shrubbery.

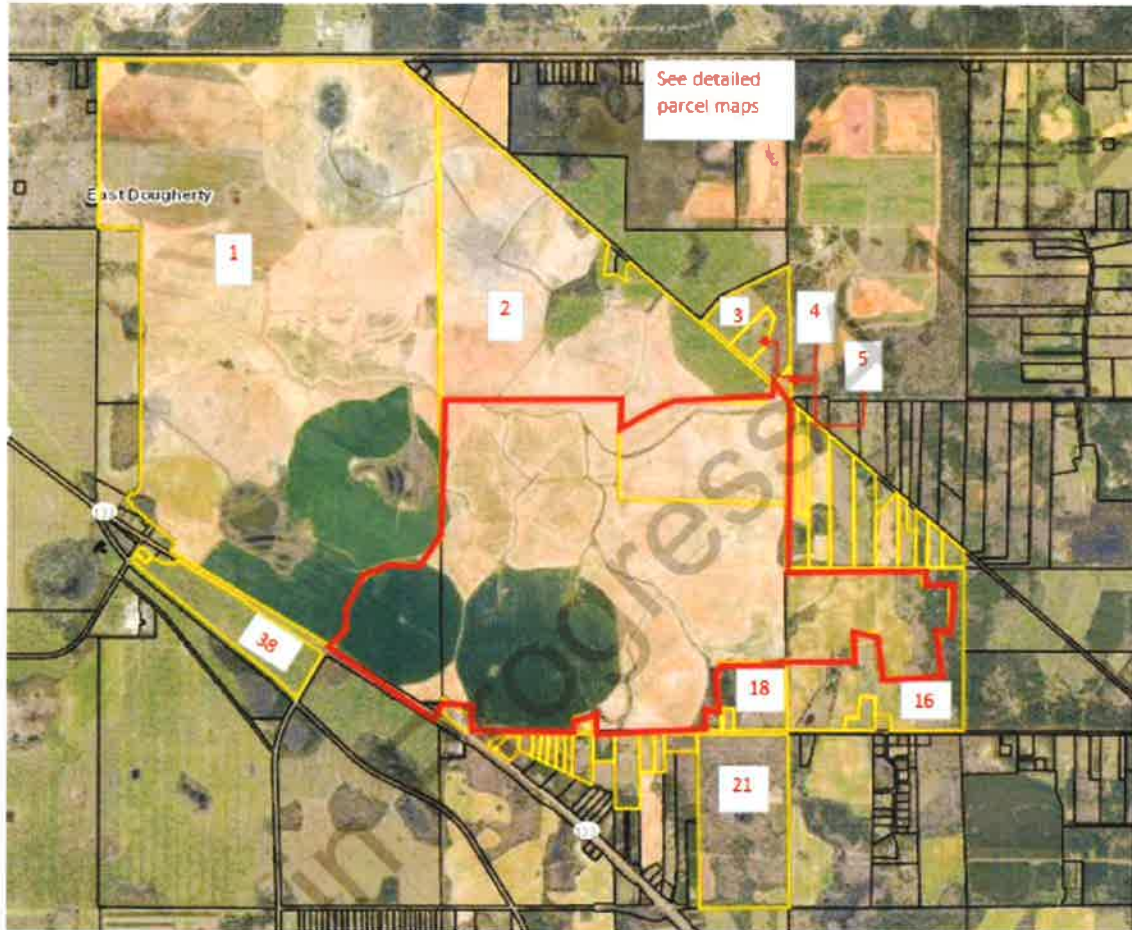
Prior Use: Agricultural use

Real Estate Tax Information: The assessed value in Dougherty County has not changed for the solar parcel since decreased slightly from 2018, prior to the development of the solar farm, to 2020, after the development of the solar farm. We note \$61,000 of this decrease is due to the demolition of existing improvements (Parcel 00120/00001/007). Removing the improvements from the 2018 assessed value only accounts for a decrease of 0.32% from this parcel, although given the solar farm's recent construction it is possible the site would be reassessed during the next cycle. Historical real estate taxes are not available from Dougherty County public records.

PIN	Acres	2018 Taxes Paid	2020 Taxes Paid	Tax Increase	2018 Assessed Value	2020 Assessed Value	Value Increase
Dougherty County, GA							
00144/00001/03D	143.75	\$ 9,435	\$ 9,388	0%	\$ 546,300	\$ 546,300	0%
00120/00001/007	792.98	\$ 38,909	\$ 37,550	-3%	\$ 2,253,000	\$ 2,185,100	-3%
00146/00001/01B	100.69	\$ 6,884	\$ 6,850	0%	\$ 398,600	\$ 398,600	0%
00118/00001/07C (Post 2021 split)	125.47	Not Released	Not Released		Not Released	Not Released	
TOTAL	1,280.93	\$ 55,228	\$ 53,787	-3%	\$ 3,197,900	\$ 3,130,000	-2%

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The maps below and following display the solar project (parcels outlined in red). Properties adjoining the solar site are outlined in yellow and numbered for subsequent analysis. We note the Dougherty County GIS has not updated its aerial imagery to include the solar panels on the solar site.



Dougherty Solar - Adjoining Properties

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Dougherty Solar - Adjoining Properties

Work in Progress

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Dougherty Solar - Adjoining Properties

Work in

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Dougherty Solar - Adjoining Properties

Adjoining Properties 1-18, 20, 21, 24-31, 33-38 all sold between August 1973 and September 2019, prior to the date of completion of the subject solar site. These properties have been excluded from further analysis.

We do note Adjoining Property 27 was sold in July 2019, during the construction period of the solar farm. Since it was sold during the construction period, we have excluded it from being considered as a Test Area Sale since we cannot extract the external influence of construction on the sale price. We spoke to the selling broker for this transaction, Christy Wingate, with Parker Real Estate Group. She noted the future presence of the solar farm did not impact the sales price at all. Additionally, she noted in her experience, the presence of a solar farm is neither an attraction nor a deterrent for nearby home buyers. She noted a similar case with a new solar farm in Leesburg, Georgia, which is much smaller than the solar farm under analysis, within a predominately residential area.

Adjoining Property 32 sold in December 2019 and we analyzed it for potential inclusion as a Test Area Sale; however, since the sale was a gift sale with no allocated sales price, we have not analyzed it further since the transaction was not a market transaction.

Adjoining Property 19 was sold in February 2020, however this sale was also a gift sale between family members with no allocated sales price. Therefore we did not analyze it.

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Adjoining Property 22 sold in August 2020 for \$19,500, although according to public records does not note this sale was a "Fair Market Sale." Additionally, the county GIS marked this sale as unqualified for a market transactions. Therefore, we did not analyze this sale further.

Paired Sales Analysis:

We have considered only one type of paired sales analysis, which compares sales of properties proximate to the solar farm (Control Area) to the sales of adjoining properties after the completion of the solar farm project (Test Area).

We found one adjoining property that qualified for a paired sales analysis. Adjoining Property 23 (Test Area Sale), circled in blue on the previous page, was considered for a paired sales analysis, and sold in June 2020, after the completion of the solar farm. This property was analyzed as single-family home use.

Adjoining Property 23 (Test Area Sale) was considered for a paired sales analysis, and we analyzed this property as a single-family home use, which is a 2,750 square foot home located on a 3.44- acre parcel that sold in June 2020. The property line of this parcel is approximately 202 feet from the closest solar panel, and the improvements are approximately 312 feet from the closest solar panel. The following table outlines the other important characteristics of Adjoining Property 23.

Adjoining Property 23												
Status	Address	City	County	Sale Price	Site Size (AC)	Beds	Baths	Year Built	Square Feet	Improvements	Sale Price/SF	Sale Date
Sold	2916 SPRING FLATS RD	Albany	Dougherty	\$205,000	3.44	4	2.5	1980	2,750	1-Story SFR	\$74.55	Jun-20

We note that Adjoining Property 23 has an in-ground pool. We have found Control Area Sale data through Zillow and verified these sales through county records, conversations with brokers, and the County Assessor's Office. We excluded sales that were not arm's length, such as REO sales or those transactions between related parties. We have included only sales with a similar number of bedrooms, bathrooms, and living area, as well as land area. Additionally, we only selected Control Area Sales of single-family homes also had an in-ground pool.

It is important to note that these Control Area Sales are not adjoining a solar farm, nor do they have a view of one from the property at the time of their sales. Therefore, the announcement nor the completion of the solar farm use could not have impacted the sales price of these properties. It is informative to note that the average and median marketing time (from list date to off market date) for Control Area Sales was 83 days and 119 days, respectively. The Test Area sale had a marketing time of 99 days. This is an indication that the marketability of the Test Area sale was not negatively influenced by proximity to the Dougherty Solar project. The Control Area Sales are comparable in most physical characteristics and bracket Adjoining Property 23 reasonably.

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Control Area sales were adjusted for market conditions using the Federal Housing Finance Agency's House Price Index (HPI), a weighted, repeat-sales index measuring average price changes in repeat sales or refinancing of the same properties. The results of the paired sales analysis for the Dougherty Solar project are presented below.

CohnReznick Paired Sales Analysis Dougherty County Solar Facility Adjoining Property 23		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Yes: Adjoining solar farm	\$74.55
Control Area Sales (5)	No: Not adjoining solar farm	\$76.23
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		-2.21%

The difference between the unit price of the Test Area Sale and the Adjusted Median Unit Price of the Control Area Sales is considered within the range for a typical market area. One of the Control Area Sales was 20 years newer than the Test Area Sale. A secondary analysis excluding this sale indicated an adjusted median unit sale price of \$74.47 per square foot, which is in line with the Test Area Sale unit price of \$74.55 per square foot.

Noting no significant price differential, it does not appear that the Dougherty Solar project impacted the sales price of the Test Sale, Adjoining Property 23.

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SOLAR FARM 4: MIAMI-DADE SOLAR ENERGY CENTER, MIAMI DADE COUNTY, FL

Coordinates: Latitude 25°38'34.5"N, 80°29'16.5"W

PIN: 30-5813-000-0020

Population Density (2019): 1,000 people per square mile (Largest City = Miami)

Recorded Owner: Florida Power & Light Company

Total Land Size: 465 acres

Date Project Announced: October 2017

Date Project Completed: January 2019

Output: 74.5 MW AC



2020 Aerial imagery retrieved from Google Earth

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Overview and Surrounding Area:

The Miami Dade Solar Energy Center is situated in unincorporated Miami-Dade County, just west of Florida State Road 997. The site comprises approximately 300,000 solar panels on a fixed-tilt system, generating enough energy to power around 15,000 homes.

It is surrounded to the north, west, and south by rural residences and agricultural uses. The Kendall Tamiami Executive Airport is located due east, along the flight path for one of the airport's runways. A canal runs along the west side of the property, and beyond that is 306 acres of federal government land and four agricultural use lots. The predominant lot size in the surrounding area is approximately five acres and uses vary from palm tree farms, equestrian centers, citrus groves, to rural residences. These lots are zoned GU – Interim District, which categorizes land not otherwise specified in the unincorporated areas of Miami Dade County. This designation allows for uses consistent with the surrounding character, or a density of one residence for every 5 acres.²⁵ As such, development is limited to rural residences or agricultural uses

Prior Use: Agricultural use

Real Estate Tax Info: The chart below shows the increase from 2018 (before construction) to 2019 (after construction) in the assessed value of the parcels and the total real estate taxes.

PIN	Acres	2018 Taxes Paid	2019 Taxes Paid	Tax Increase	2018 Assessed Value	2019 Assessed Value	Value Increase
Miami-Dade County 30-5813-000-0020	465.61	\$ 40,777	\$ 179,761	341%	\$ 2,460,316	\$ 10,575,924	330%
TOTAL	465.61	\$ 40,777	\$ 179,761	341%	\$ 2,460,316	\$ 10,575,924	330%

²⁵ <http://www.miamidade.gov/zoning/districts.asp>

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Paired Sale Analysis – Residential Land:

The following map numbers the adjoining parcels for subsequent analysis. The 39 adjoining parcels are a mix of single-family residences, agricultural land, and government land. We have identified five parcels that have transferred since the solar farm was completed, adjoining parcels 3, 13, 31, 33, and 35. Adjoining properties 3 and 33 transferred as deed corrections between related parties and are not considered market sales. Adjoining Property 35 was bought by the owner of the adjoining parcel for assemblage purposes and was also removed from the study. The remaining three parcels, adjoining properties 13, 31, and 33 were considered for a paired sales analysis. These three parcels have an interim agricultural use with residential development allowed under the GU zoning.



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We identified six Control Area sales with similar location, square footages, lot sizes, and ages that sold from a reasonable sale time from the median sales date of the test sales. Control Area sales were adjusted for market conditions using the Federal Housing Finance Agency's House Price Index (HPI), a weighted, repeat-sales index measuring average price changes in repeat sales or refinancing of the same properties. The result of our study is presented below.

CohnReznick Paired Sales Analysis Miami-Dade Solar Energy Center		
No. Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per Acre
Test Area Sales (3)	Yes: Adjoining solar farm	\$82,491
Control Area Sales (6)	No: Not adjoining solar farm	\$81,866
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		0.76%

Noting no negative price differential, it does not appear that the Miami Dade Solar Energy Center impacted the sales price of adjoining properties 13, 31, and 33.

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SOLAR FARM 5: BAREFOOT BAY SOLAR ENERGY CENTER, BREVARD COUNTY, FL

Coordinates: Latitude 27°52'15.5"N, Longitude 80°31'38.3"W

PINs: Several

Population Density (2020): 597 people per square mile (Largest City = Palm Bay)

Recorded Owner: Florida Power & Light Company

Total Land Size: 505 acres

Date Project Announced: January 2017

Date Project Completed: May 2018

Output: 74.5 MW AC



2020 Aerial imagery retrieved from Google Earth

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Overview and Surrounding Area:

The Barefoot Bay Solar Energy Center is located north of Sebastian, in the unincorporated community of Micco, in coastal Brevard County, Florida. The solar installation sits on a 462-acre site, on land that was formerly an orange grove. Florida Power & Light held an open house for the area residents in January of 2017. The construction started in June of 2017 and was completed in May of 2018. The solar energy center has a capacity of approximately 74.5 MW AC. The site comprises approximately 300,000 solar panels on a fixed-tilt system, generating enough energy to power around 15,000 homes.

The solar site is approximately 450 feet south of Micco Road, an east-west arterial, approximately 1.5 miles west of U.S. 1, which runs along the shores of the Indian River. The solar installation is surrounded by trees and vegetation and is adjoined by residential development to the north and east. Along Micco Road, to the northwest of the solar farm are several mixed-use lots, with agricultural, rural residential, and industrial uses.

The solar site is surrounded to the north and northeast primarily by the Barefoot Bay manufactured home community. Barefoot Bay is the largest manufactured home community in Florida where homes are permanently built, bought, and sold as real property. The community has three pools, a bar and restaurant, a golf course and other recreational and entertainment activities.

The population is estimated to be over 12,000 persons and approximately 80 percent of residents are over 55 years old, however, there is no age restriction in the community. The entire community sits on approximately 1,000 acres originally purchased and developed starting in 1968, with almost total absorption of lots by 1996. A total of 5,000 lots were platted and lot sizes currently range from 50 feet wide by 80 feet deep (4,000 square feet) to 75 feet wide by 100 feet deep (7,500 square feet). Homes are close together and with the standard setbacks homes can be 15 feet apart from one another.

A longtime local real estate agent and community resident at Barefoot Bay Realty said that the homes that border the solar site to the northeast, along Papaya Circle, are considered perimeter lots and are more desirable due to the lack of backyard neighbors. There is a swale (a broad and shallow ditch with water) that separates the lots from the solar site and the agent noted that many people in the community are unaware that the solar site is even there. The prices and marketing times of homes adjoining the solar farm on Papaya Circle in Barefoot Bay are not impacted by their proximity to the installation, and in fact may benefit from the increased privacy provided by the solar site.

The Barefoot Bay agent reported that small homes on small lots may sell for \$70,000 and larger homes on larger and better located lots can sell for over \$200,000. In the experience of Barefoot Bay Realty agents, there are typically 80 to 100 homes on the market at any one time and the average marketing time is considered to be 60 days.

To the east of the solar farm are rural residential lots with extended driveways. Several of these parcels are flag lots with secluded residences set back. At the southeast corner of the solar site, are approximately 441 acres of land zoned agricultural-residential by Brevard County owned by a cattle ranch operation.

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To the south of the solar site lies the Wheeler Stormwater Park which is a 300-acre stormwater management area. The site includes 163 acres of park land with dynamic walking and nature trails, which was opened to the public in 2017.

On the western boundary of the solar site is the Sottile Canal, a canal that flows into the north prong of the St. Sebastian River, a major tributary of the Indian River Lagoon. South of Micco Road west of the Canal is the new residential subdivision known as the Lakes at St. Sebastian Preserve, on land platted as Paladin Estates. The Lakes at St. Sebastian Preserve is located approximately 2.3 miles west of the Indian River. The single-family home community features new homes being built by two national homebuilders. The homes will have city water and septic, but the subdivision is outside the city limits of Sebastian in Brevard County. Several homes have been built in the community as of July 2020 but the street with lots that back onto the Sottile Canal (Lago Vista Drive) will be built in a later phase. Real estate salespeople for both builders noted that the view of the solar installation is primarily obstructed from the lots that will back to the Canal and there has been no impact on home sales or interest in the development due to its location proximate to the solar installation.

To the west of the solar site, south of Lakes at St. Sebastian Preserve, is state-owned land utilized for flood control.

Prior Use: Agricultural use

Real Estate Tax Info: The chart below shows the increase from 2016 (before construction) to 2018 (after construction) in the assessed value of the parcels and the total real estate taxes.

PIN	Acres	2016 Taxes Paid	2018 Taxes Paid	Tax Increase	2016 Assessed Value	2018 Assessed Value	Value Increase
Brevard County							
3006694	56.20	\$ 1,038	\$ 9,426	808%	\$ 67,440	\$ 618,200	817%
3007862	48.51	\$ 896	\$ 10,859	1112%	\$ 58,210	\$ 727,650	1150%
3008628	320.14	\$ 6,077	\$ 60,433	895%	\$ 384,170	\$ 4,001,750	942%
3008630	1.00	\$ 23	\$ 22	-4%	\$ 600	\$ 600	0%
3008632	9.00	\$ 162	\$ 1,888	1069%	\$ 10,500	\$ 126,000	1100%
3010467	69.90	\$ 1,291	\$ 13,685	960%	\$ 83,880	\$ 908,700	983%
TOTAL	504.75	\$ 9,485	\$ 96,313	915%	\$ 604,800	\$ 6,382,900	955%

Paired Sale Analysis:

The maps on the following pages number the adjacent parcels for subsequent analysis. We have identified thirteen sales that have transferred since the solar farm construction, adjacent parcels 6, 7, 13, 14, 18, 30, 37, 40, 47, 50, 51, 76, and 86. Adjoining property 14 was a liquidation sale and removed from consideration. Adjoining properties 37 and 50 transferred off the multiple listing service and are non-owner occupied. Adjoining property 30 has a large, converted patio and is atypical for Barefoot Bay: this sale was considered an outlier and removed from analysis. While adjoining properties 76 and 86 are technically adjacent, they are atypical flag lots with driveways that operate as de facto roads. The residence for property 76 is buffered from the solar farm by

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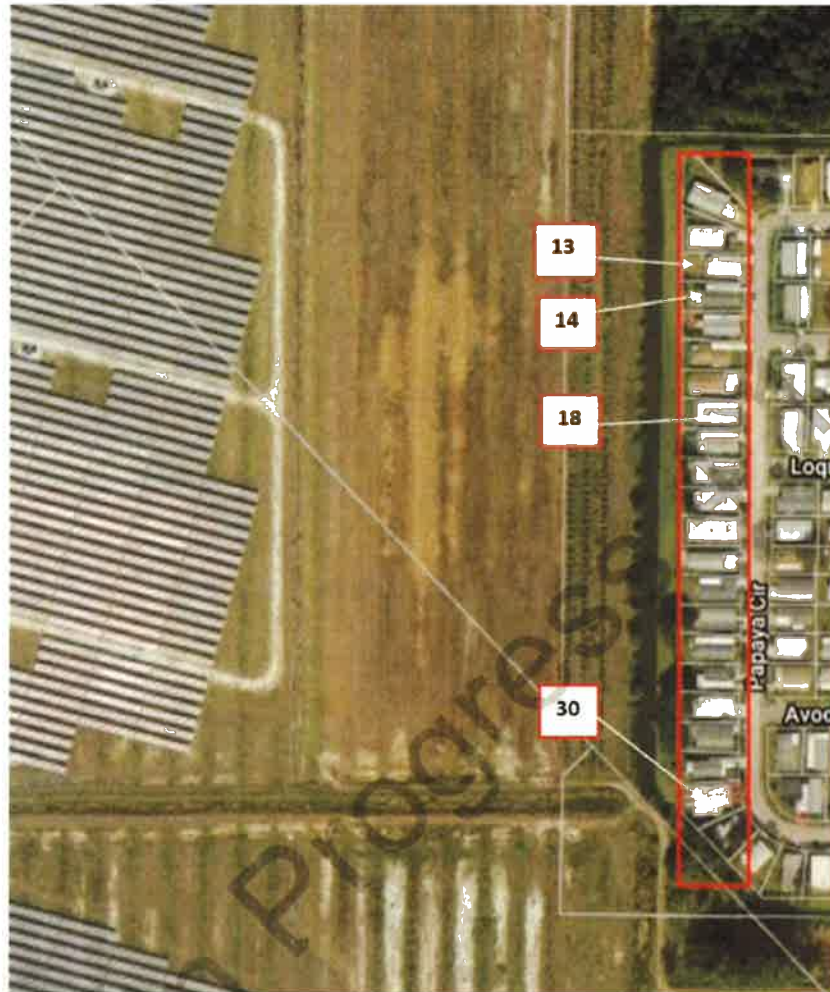
two other residences. Adjoining property 86 is atypically larger than other sales in the market area and is approximately forty percent wetland. Properties 76 and 86 were considered outliers and removed from the study.

The remaining seven parcels, adjoining properties 6, 7, 13, 18, 40, 47, and 51 were considered for a paired sales analysis. We have divided these properties into two groups as discussed further on the following pages.



Barefoot Bay Farm Adjoining Properties

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Barefoot Bay Farm Adjoining Properties - Insert A

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Barefoot Bay Farm Adjoining Properties - Insert B



Barefoot Bay Farm Adjoining Properties - Insert C

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Adjoining properties 6 and 7 are residential lots. They were purchased by the same buyer from two different sellers on different sale dates. We identified seven Control Area Sales with similar location and lot sizes that sold from a reasonable sale time from the median sales date of the test sales. The test sales had a median marketing time of two to three months, as did the control sales. Control Area sales were adjusted for market conditions using the Federal Housing Finance Agency's House Price Index (HPI), a weighted, repeat-sales index measuring average price changes in repeat sales or refinancing of the same properties. The result of our study is presented below.

CohnReznick Paired Sales Analysis Barefoot Bay Solar Energy Center GROUP 1		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price per Acre
Test Area Sales (2)	Yes: Adjoining Solar Farm	\$54,500
Control Area Sales (7)	No: Not Adjoining Solar Farm	\$51,000
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		6.86%

Adjoining properties 13, 18, 40, 47, and 51 are improved residential dwellings. Since Barefoot Bay is a homogenous subdivision with a large number of residences, we were able to identify 126 control sales located in the Barefoot Bay manufactured home community, all manufactured homes on residential lots, with gross living areas of 1,100 SF to 1,800 SF, that sold from a reasonable sale time from the median sales date of the test sales, excluding outliers and non-arm's length transactions. Barefoot Bay has typical marketing times of two months. The test sales had a median marketing time of approximately a month and a half. Control Area sales were adjusted for market conditions using the Federal Housing Finance Agency's House Price Index (HPI), a weighted, repeat-sales index measuring average price changes in repeat sales or refinancing of the same properties. The result of our study is presented on the following page.

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CohnReznick Paired Sales Analysis Barefoot Bay Solar Energy Center GROUP 2		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price per SF
Test Area Sales (5)	Yes: Adjoining Solar Farm	\$95.90
Control Area Sales (126)	No: Not Adjoining Solar Farm	\$93.95
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		2.07%

Noting the relatively low price differential, in which the Test Area Sales were higher than the median for the Control Areas Sales, it does not appear that the Barefoot Bay Solar Energy Center had any negative impact on adjoining property values or marketing times.

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Summary of Before and After Construction of the Solar Farm Analysis:

Due to the frequency of sales in the Barefoot Bay subdivision, we were able to conduct an analysis on the prices of manufactured homes before the solar farm announcement date in comparison to the prices of manufactured homes after the construction of the solar farm. We have provided our conclusions from the data below and the following page contains a chart with the data.

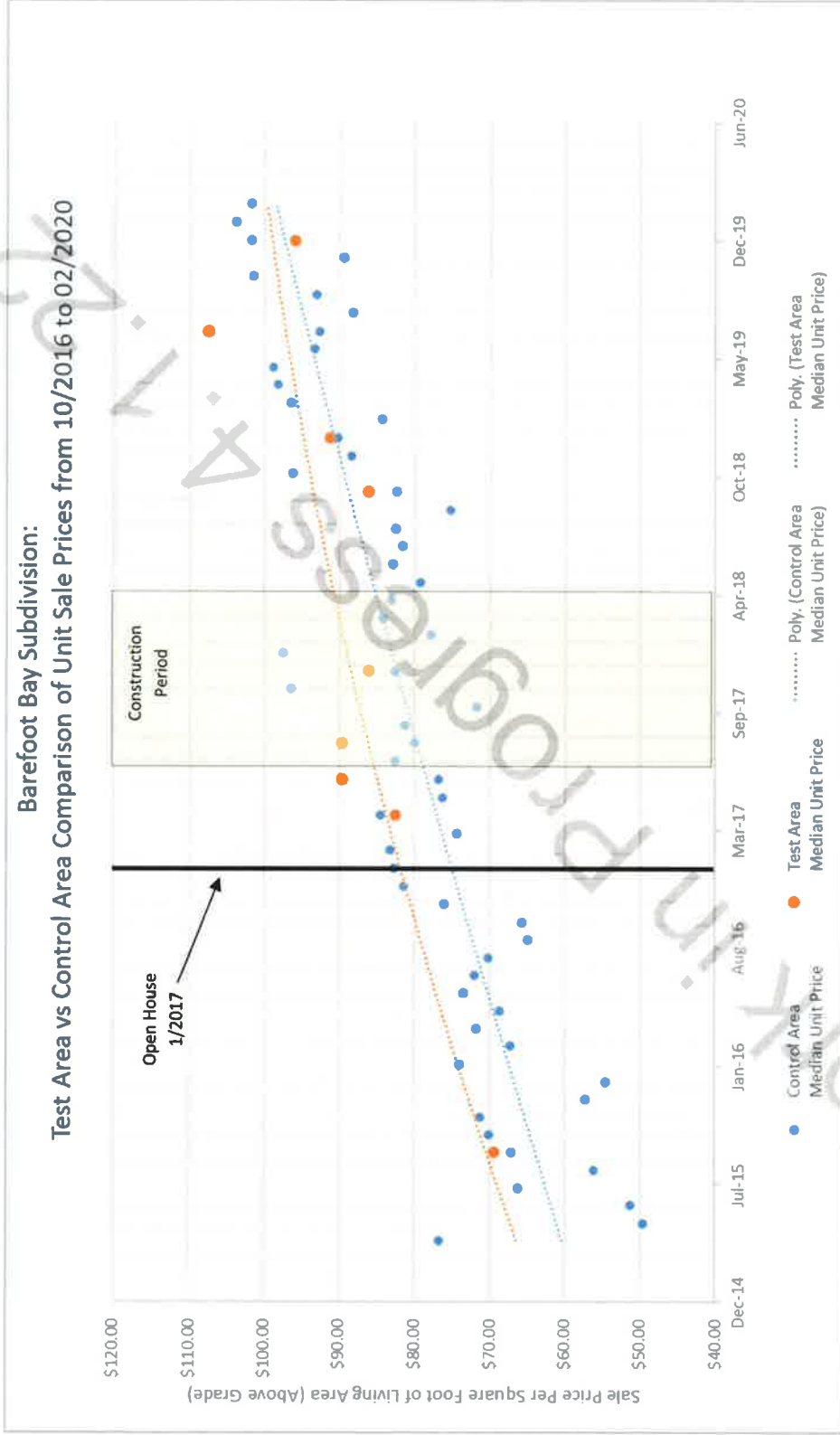
Nine Test Area sales and 903 Control Area Sales were identified from Q2 2015 to Q1 2020.

- The Test area sales (ORANGE) are located adjoining to the Barefoot Bay Solar Energy Center.
- The Control area sales (BLUE) are located in the remainder of the Barefoot Bay subdivision.

The dotted lines are polynomial trend lines plotted by Microsoft Excel in order to illustrate and approximate the “average” trend of each set of data. After construction of the solar farm, in parallel with the improving economic climate, it appears that unit prices for both the test and control areas appreciated at a similar rate over the period from Q2 2015 to Q1 2020. A difference in appreciation rates does not appear to exist between homes in the Test Area versus homes in the Control Area.

Sale prices of manufactured homes after the construction of the solar farm exhibit a similar appreciation trend as sales prior to the solar farm announcement. Overall, our findings indicate that there is not a consistent and measurable difference that exists in association with proximity to a solar farm.

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SOLAR FARM 6: INNOVATIVE SOLAR 42, BLADEN AND CUMBERLAND COUNTIES, NC

Coordinates: Latitude 34.847627, Longitude -78.877360

Cumberland County PIN: 0339-67-3814

Bladen County PINs: 033900553698, 033900751483, 033900658763

Population Density (2019): 501 people per square mile (Largest City = Fayetteville, Cumberland Cty)

(2018): 40 people per square mile (Largest City = Elizabethtown, Bladen Cty)

Total Land Size: 414 acres

Date Project Announced: May 2014

Date Project Completed: September 2017

Output: 71 MW AC



Aerial imagery retrieved from Google Earth

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Overview and Surrounding Area:

Innovative Solar Farm 42 was developed by Innovative Solar Systems and became operational in September 2017. There are over 271,000 solar arrays on the farm that can generate power for approximately 12,000 homes.

Innovative Solar Farm 42 is located in unincorporated Bladen and Cumberland Counties, in North Carolina, approximately 17 miles south of Fayette, North Carolina and 21 miles north of Elizabethtown, North Carolina. The county line bisects the solar farm, with Cumberland County on the north side and Bladen County on the south side. Innovative Solar Farm is located just south of County Line Road in Cumberland County and approximately one mile west of North Carolina Highway 87.

The Immediate Area: The solar farm is surrounded by residential land to the north, residential and forest land to the west, and agricultural and forest land to the south and east.

Landscaping: The solar farm is buffered from the residences along County Line Road with a chain link fence, and tree plantings. The solar farm is clearly visible.

Prior Use: Agricultural use

Real Estate Tax Info: The chart below shows the increase from 2017 (before construction) to 2018 (after construction) in the assessed value of the parcels and the total real estate taxes.

PIN	Acres	2017 Taxes Paid	2018 Taxes Paid	Tax Increase	2017 Assessed Value	2018 Assessed Value	Value Increase
Cumberland County, NC							
0339-67-3814	261.39	\$ 5,263	\$ 37,699	616%	\$ 541,500	\$ 3,920,850	624%
Bladen County, NC							
33900553698	82.48	\$ 920	\$ 947	2.96%	\$ 108,870	\$ 108,870	0.00%
33900751483	17.92	\$ 234	\$ 241	2.96%	\$ 27,690	\$ 27,690	0.00%
033900658763	52.20	\$ 622	\$ 640	2.96%	\$ 73,600	\$ 73,600	0.00%
TOTAL	413.99	\$ 7,039	\$ 39,527	462%	\$ 751,660	\$ 4,131,010	450%

Paired Sale Analysis:

We found two Adjoining Properties that qualified for a paired sales analysis: Adjoining Property 11 and Adjoining Property 2. Adjoining Property 2 was a speculative construction home built after the completion of the solar farm (see further discussion in the Solar Farm Factors in Harmony of Use section). The map on the following page displays the parcels adjoining to the solar farm panels (outlined in red), these parcels are numbered for subsequent analysis. Note, that the GIS map views do not have updated aerial imagery that display the solar panels in the image on the following page.

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Cumberland County Map



Innovative Solar 42 - Adjoining Properties

Bladen County Map



Innovative Solar 42 - Adjoining Properties

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Group 1

Adjoining Property 11 was considered for a paired sales analysis, and sold during the construction period of the solar farm. The property was analyzed as a single-family home use.

The Control Area Sales were 1-story homes, with three bedrooms and two or three bathrooms with comparable sizes that sold within a reasonable time frame. We excluded sales that were bank-owned, and those between related parties.

The Control Area Sales were adjusted for market conditions using a regression analysis to identify the appropriate monthly market conditions adjustment. The result of our analysis for Innovative Solar 42 – Group 1e are presented below.

CohnReznick Paired Sale Analysis Innovative Solar 42 Group 1		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$107.09
Control Area Sales (7)	No: Not adjoining solar farm	\$100.18
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		6.91%

The Test Area Sale sold after 71 days on market (2-3 months), while the Control Area Sales ranged from 1 day on market to 175 days on market (0-6 months), with a median of 116 days on market. We note **no negative marketing time differential.**

Noting no negative price differential, with the Test Area Sale having a higher unit sale price than the median adjusted unit sale price of the Control Area Sales, it does not appear that the Innovative Solar 42 energy use had any negative impact on adjacent property values.

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Group 2

Adjoining Property 2 was considered for a paired sales analysis, and sold after completion of the solar farm. We discussed this sale with the listing broker, Kevin Grullon, who said the solar farm did not impact the sales price nor the marketing time.

The Control Area Sales were 2-story homes, with three and four bedrooms and two to four bathrooms with comparable sizes that sold within a reasonable time frame. We excluded sales that were bank-owned, and those between related parties. For Adjoining Property 2, we analyzed seven Control Area Sales.

Control Area Sales were adjusted for market conditions using regression analysis to identify the appropriate monthly market conditions adjustment. The result of our analysis for Innovative Solar 42 – Group 2 are presented below.

CohnReznick Paired Sale Analysis Innovative Solar Group 2		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$111.77
Control Area Sales (7)	No: Not adjoining solar farm	\$105.34
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		6.10%

The Control Area Sales ranged from 13 days on market to 225 days on market (0-8 months), with a median of 46 days on market. The Test Area Sale sold after 153 days on market (3-4 months) and it was listed during construction, which explains the above average time on market since closing can only occur after the home had been completed.

Noting no negative price differential, with the Test Area Sale having a higher unit sale price than the median adjusted unit sale price of the Control Area Sales, it does not appear that the Innovative Solar 42 energy use had any negative impact on adjacent property values.

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SOLAR FARM 7: RUTHERFORD FARM, RUTHERFORD COUNTY, NC

Coordinates: Latitude 35.257778, Longitude -81.830560

PIN: 1556-31-0185

Population Density (2018): 120 people per square mile (Largest City = Forest City)

Total Land Size: 489 acres

Date Project Announced: November 24, 2015

Date Project Completed: December 2016

Output: 61 MW AC



Aerial imagery retrieved from Google Earth

Overview and Surrounding Area:

The Rutherford Farm Solar use is located in unincorporated Rutherford County, North Carolina. The solar farm was developed by Cypress Creek Renewables and became operational in December 2016. Southern Power

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and Turner Renewable Energy purchased the solar facility on July 8, 2016. The solar farm has over 289,000 solar modules that can generate power for approximately 12,000 homes.

The Rutherford Farm solar use is approximately 7 miles southeast of Forest City, in Rutherford County, in southwestern North Carolina. The solar facility is situated approximately 3 miles northeast of the intersection of Chase High Road and US 221, a major thoroughfare that traverses the county.

The Immediate Area:

Surrounding land uses consists of residential and forest land to the north, forest and commercial to the east, vacant and forest land to the south. All of the adjacent land parcels to the solar farm are used for agricultural or residential purposes.

The solar farm has a hedge buffer along portions of the farms where the residential development is closest. Along all solar panels areas adjacent to residential, a row of trees buffers the view of the panels.

Prior Use: Wooded

Real Estate Tax Information:

Prior to development of the solar farm, the assessed value of the property was \$466,200 and ownership paid \$3,156 in taxes. In 2018, after the completion of the solar farm, the assessed value of the solar farm property increased to \$1,075,800 and taxes increased to \$7,391, a 131 percent increase in tax revenue.

PIN	Acres	2016 Taxes Paid	2018 Taxes Paid	Tax Increase	2016 Assessed Value	2018 Assessed Value	Value Increase
Rutherford County 1556-31-0185	488.84	\$ 3,203	\$ 7,391	131%	\$ 466,200	\$ 1,075,800	131%
TOTAL	488.84	\$ 3,203	\$ 7,391	131%	\$ 466,200	\$ 1,075,800	131%

Paired Sale Analysis:

In reviewing adjoining properties to study in a Paired Sale Analysis, seven properties and sales were considered in total but six were eliminated from further consideration as discussed below.

The map on the following page displays the Adjoining Properties (outlined in red) to the solar farm parcel (outlined in yellow). Properties adjoining this parcel are numbered for subsequent analysis.

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Rutherford Farm Solar - Adjoining Properties

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Five Adjoining Properties (21, 22, 36, 56, and 57) were eliminated from further consideration because they were sales with no recorded sales value or property transfers in off-market transactions. Adjoining Property 2 was a transfer between related parties. Adjoining Property 55 sold in October 2020; however, this property is a duplex with one two-bedroom unit rented. We were not able to locate sales of other duplex properties in the surrounding area that are comparable to the property. As additional duplex sales occur, we will monitor and generate a paired sale analysis for this property at a later date.

We found one Adjoining Property that qualified for a Paired Sale analysis. Adjoining Property 46, the Test Area Sale, was considered for a paired sales analysis. The property was analyzed as a single-family home use. It should be noted that this sale occurred after announcement but prior to construction of the solar farm. We spoke with the selling broker for this property, Brent Washburn, who confirmed that the solar farm had not been constructed at the time of sale, and said the announcement had no impact on the sale.

Adjoining Property 46 was considered for a paired sales analysis, and we analyzed this properties as single-family home use. The improvements on this property are located 139 feet to the nearest solar panel.

Test Area Sale Rutherford Farm Solar									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median Square Feet	Median Sale Date	Median Price PSF
46	434 Ferry Rd	\$85,000	0.41	3	2.0	1977	1,590	Jan-16	\$53.46

We analyzed six Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages, use that were not located in close proximity to the solar farm, that also sold within a reasonable time frame from the median sale date of the Test Area Sale. The Control Area Sales are one-story homes with 3 bedrooms and one to two bathrooms. We excluded sales that were bank-owned, and those between related parties.

The Control Area Sales were adjusted for market conditions using a regression to identify the appropriate monthly market conditions adjustment. The results of our analysis for the Rutherford Farm solar facility are presented on the next page:

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CohnReznick Paired Sale Analysis Rutherford Farm Solar		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$53.46
Control Area Sales (6)	No: Not adjoining solar farm	\$52.49
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		1.85%

Noting no significant price differential, with the Control Area Sales having a slightly lower median unit sale price than the unit sale price of the Test Area Sale, it does not appear that the Rutherford Farm Solar energy use had any negative impact on adjacent property values.

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SOLAR FARM 8: ELM CITY SOLAR FACILITY, WILSON COUNTY, NC

Coordinates: Latitude 35.781111, Longitude -77.846940

PINs: 3744-33-6758.01, 3744-11-9000.000

Population Density (2019): 221 people per square mile (Largest City = Wilson)

Total Land Size: 354 acres

Date Project Announced: September 2014

Date Project Completed: July 2012

Output: 40 MW AC



Aerial imagery retrieved from Google Earth

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Overview and Surrounding Area:

The Elm City Solar use is located in Elm City, North Carolina. Duke Energy owns the solar facility and selected HelioSage Energy to develop it. The solar farm went into operation in March 2016 and can generate power for approximately 7,000 homes. Nearly a half million solar panels comprise the farm.

Wilson County is located in central North Carolina. The county is primary rural in nature, with the city of Wilson being the county seat. Elm City is actually a town with a population of less than 1,200. The Elm City Solar Farm is located to the southeast of Elm City, approximately a third of a mile to the east of State Highway 301. Surrounding land uses consist of residential and forest land to the north; forest and agricultural land to the east; vacant, forest, and residential land to the south; and residential, industrial, vacant, and forest land to the west.

The Immediate Area:

All of the adjacent land parcels to the solar farm are used for agricultural, residential, and/or industrial purposes.

Landscaping: The Elm City Solar Farm is buffered from the adjoining residential lots with a fence and tree plantings.

Prior Use: Agricultural use

Real Estate Tax Info: In 2016, prior to the property being assessed as a solar farm, the assessed value of the property was \$206,220 and ownership paid \$2,805 in real estate taxes. In 2017, the assessed value increased to \$1,779,830 and the real estate tax increased to \$24,206.

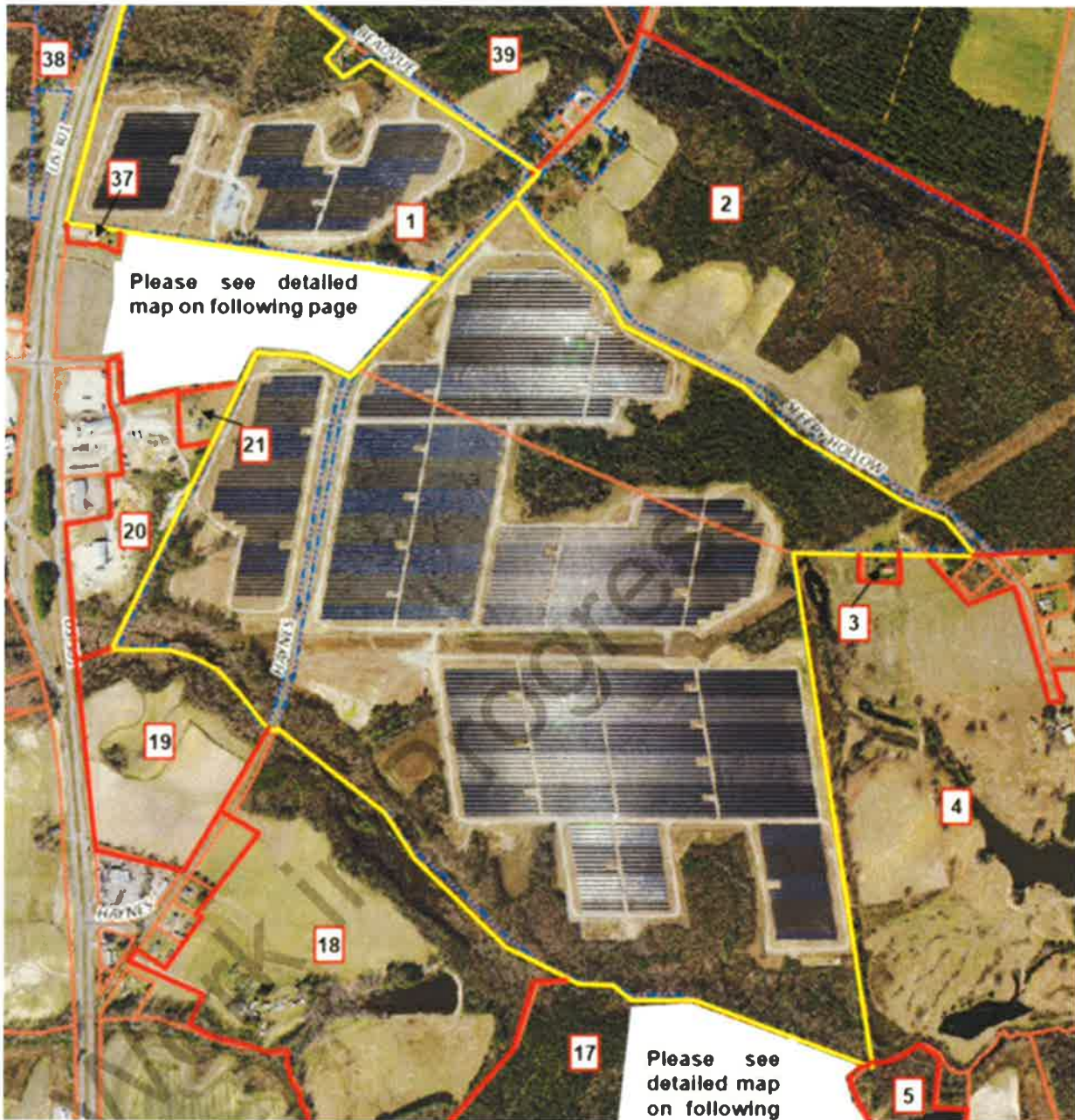
PIN	Acres	2016 Taxes Paid	2017 Taxes Paid	Tax Increase	2016 Assessed Value	2017 Assessed Value	Value Increase
Wilson County							
3744119000.000	249.00	\$ 2,805	\$ 14,624	421%	\$ 206,220	\$ 1,075,330	421%
3744336758.01*	105.00	\$ 1,494	\$ 9,581	541%	\$ 117,881	\$ 704,500	498%
TOTAL	354.00	\$ 4,298	\$ 24,206	463%	\$ 324,101	\$ 1,779,830	449%

* This parcel was split from it's parent prior to construction. The 2016 Assessed Value is based on the pro-rata amount for the entire 471.53 acre parent parcel.

Paired Sale Analysis:

The map on the following page displays the parcels adjoining the solar farm (outlined in red). Properties adjoining the solar parcels are numbered for subsequent analysis.

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Elm City Solar - Adjoining Properties

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Elm City Solar - Adjoining Properties



Elm City Solar - Adjoining Properties

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Adjoining Property 23 (Test Area Sale) was considered for a paired sales analysis, which sold after development of the solar farm. The property was analyzed as a single-family home use. We discussed this sale with Selby Brewer with First Wilson Properties, Inc who sold the property. He said the buyers "did not even mention" the solar farm, and he saw **no market difference**.

For Adjoining Property 23, we analyzed eight Control Area Sales that sold within a reasonable time frame from the sale date of Adjoining Property 23. The Control Area Sales are ranch homes with three bedrooms and one and two bathrooms. We excluded sales that were bank-owned, and those between related parties.

The Control Area Sales were adjusted for market conditions using a regression analysis to identify the appropriate monthly market conditions adjustment. The result of our analysis for Elm City Solar is presented below.

CohnReznick Paired Sale Analysis Elm City Solar		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$56.60
Control Area Sales (8)	No: Not adjoining solar farm	\$55.57
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		1.85%

Noting no negative marketing time differential, the days on market for the Test Area Sale was 38 days (0-1 month), while the Control Area Sales ranged from five to 204 days on market (0-8 months).

Noting no negative price differential, it does not appear that the Elm City Solar impacted the sales price of the Test Sale, Adjoining Property 23. This was confirmed by the real estate agent who marketed and sold this home.

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SOLAR FARM 9: WOODLAND SOLAR FARM, ISLE OF WIGHT COUNTY, VA

Coordinates: Latitude 36.890000, Longitude -76.611000

PINs: 41-02-004, 41-02-001, 41-02-001A, 41-02-005

Population Density (2018): 97 people per square mile (Largest City = Smithfield)

Total Land Size: 211.12 acres

Date Project Announced: August 4, 2015

Date Project Completed: December 2016

Output: 19.0 MW AC



Aerial imagery retrieved from Google Earth

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Overview and Surrounding Area:

The Woodland Solar Farm is located in unincorporated Isle of Wight County, Virginia, and was developed by Dominion Virginia Power in 2016. This solar farm has a capacity of 19.0 Megawatts (MW) AC of power, which is enough to power 4,700 homes. The solar farm sits on 204 acres, part of Oliver Farms, a 1,000-acre site that was chosen for its flat land and proximity to power lines. The land under the solar arrays was previously farmed and used to grow broccoli, collards, peas, strawberries and butter beans. The solar installation includes 79,648 solar panels and was one of the largest of its kind at the time of construction.

Isle of Wight County is in the southeast part of Virginia and has shoreline along the James River on its eastern border. The county is predominantly rural and has two incorporated towns, Smithfield and Windsor. The Woodland Solar facility is approximately 27 miles northwest of Norfolk, Virginia, across the Elizabeth River and the Nansemond River. The solar site is also approximately 21 miles southwest of Newport News, Virginia. The town of Smithfield is approximately nine miles northeast of the solar facility and the town of Windsor is approximately 12 miles southwest. The solar facility is near the intersection of State Route 600 (Oliver Drive) and State Route 602 (Longview Drive).

The Immediate Area:

Land uses surrounding the Woodland Solar facility include forests and agricultural land to the north, west, and south, and residential and farmland to the east.

Landscaping around the solar site consists of the naturally occurring vegetation and forests. It should be noted that the landowner that leases the land to the developer has agricultural buildings and other structures along Longview Drive and the nearest solar panels are approximately 220 feet from the property line.

Prior Use: Agricultural use

Real Estate Tax Info: In 2015, prior to the property being assessed as a solar farm, the assessed value of the property was approximately \$542,200 and ownership paid \$4,609 in real estate taxes (see below). In 2016, the assessed value increased to \$3,021,600 and the real estate tax increased to \$27,844.

PIN	Acres	2015 Taxes Paid	2016 Taxes Paid	Tax Increase	2015 Assessed Value	2016 Assessed Value	Value Increase
Isle of Wight County, VA							
41-02-004	107.32	\$ 2,250	\$ 15,985	610%	\$ 264,700	\$ 1,728,100	553%
41-02-001	62.66	\$ 1,369	\$ 8,601	529%	\$ 161,000	\$ 939,900	484%
41-02-001A	8.08	\$ 230	\$ 1,193	420%	\$ 27,000	\$ 110,700	310%
41-02-005	33.06	\$ 761	\$ 2,065	171%	\$ 89,500	\$ 242,900	171%
TOTAL	211.12	\$ 4,609	\$ 27,844	504%	\$ 542,200	\$ 3,021,600	457%

Paired Sale Analysis:

The map below displays the Adjoining Properties to the solar farm (outlined in red). Properties adjoining the solar farm parcels are numbered for subsequent analysis.

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Woodland Solar - Adjoining Properties

In reviewing Adjoining Properties to study in a Paired Sale Analysis, several properties and sales were considered but eliminated from further consideration as discussed below.

We identified three Adjoining Properties that sold since the solar farm started operations in December 2016: Adjoining Property 3, and two parcels included in Adjoining Property 5. The two properties that were considered part of Adjoining Property 5, sold between related parties, and were sales between family members of the land lessor for the solar site. These two sales were excluded from further analysis.

Adjoining Property 3 was considered for a paired sales analysis, and we analyzed this property as single-family home use. The improvements on this property is located approximately 600 feet to the nearest solar panel.

Test Area Sale - Adjoining Property 3									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median GLA (SF)	Median Sale Date	Median Price PSF
3	18146 Longview Drive	\$175,000	1.00	3	1	1978	1,210	Jun-16	\$144.63

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We analyzed five Control Area Sales of single-family homes with similar construction and use that were not located in close proximity to the solar farm, which sold within a reasonable time frame from the median sale date of the Test Area Sale. The Control Area Sales one-story homes with three bedrooms and one and two bathrooms. We excluded sales that were bank-owned, and those between related parties.

The Control Area Sales were adjusted for market conditions using a regression analysis to identify the appropriate monthly market conditions adjustment. The result of our analysis for Woodland Solar Farm is presented below.

CohnReznick Paired Sales Analysis Woodland Solar Farm Adjoining Property 3		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Yes: Adjoining solar farm	\$144.63
Control Area Sales (5)	No: Not adjoining solar farm	\$137.76
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		4.99%

The difference between the unit price of the Test Area Sale and the Adjusted Median Unit Price of the Control Area Sales is considered within the range for a typical market area.

Noting no negative marketing time differential, the Test Area Sale sold in 33 days (1-2 months), while the Control Area Sales sold between 17 and 37 days (0-2 months), with a median time on market of 28 days.

Noting no negative price differential, with the Test Area Sale having a higher unit sale price than the Control Area sales, it does not appear that the Woodland Solar Farm had any negative impact on adjacent property values.

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SOLAR FARM 10: DTE'S LAPEER SOLAR PROJECT, LAPEER, MICHIGAN

Coordinates: Latitude 43.0368219316, Longitude -83.3369986251

PINs: L20-95-705-050-00, L20-98-008-003-00

Population Density (2020): 137 people per square mile (Largest City = Lapeer)

Owner of Record: DTE Electric Company & City of Lapeer

Total Land Size: ±365 Acres

Date Project Announced: 2016

Date Project Completed: May 2017

Output: 48.28 MW AC



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Overview and Surrounding Area:

The DTE Lapeer solar farm is located just south of the City of Lapeer, in Lapeer County, Michigan and is a joint project between the City of Lapeer and DTE Electric Company. The solar farm was developed with Inovateus Solar MI, LLC to meet Michigan renewable energy standards. The solar farm features over 200,000 panels, a power output of 48.28 MW AC, and produces enough energy to power 14,000 homes. The Lapeer solar project was developed in two phases: the Demille Solar installation and the Turrill Solar installation. For purposes of our study, taken together, both installations are considered one solar farm.



DTE's Lapeer Solar Projects Demille and Turrill Solar installations

Lapeer is considered to be in the Tri-Cities area of central Michigan and is approximately 21 miles east of the City of Flint. Interstate-69 serves Lapeer and runs east-west just south of the solar farm. The two phases of the solar installation are on the east and west sides of Michigan State Route 24 from each other.

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The Immediate Area:

Land uses surrounding the Demille installation include a correctional facility and industrial uses to the west, buffered by a mature stand of trees, a retail center to the northeast, other commercial uses to the east along MI-24/South Lapeer Road, and residential homes to the southeast. Interstate-69 runs south of the Demille solar installation.

The Turrill installation is surrounded to the north by a residential subdivision, to the north and east by industrial uses, to the south by vacant land and residential homes, and to the west by light commercial and professional uses along MI-24/South Lapeer Road. Hunter’s Creek divides two sets of solar arrays in the Turrill installation.

The Demille installation adjoins Interstate-69 to the South; while a residential subdivision adjoins the solar farm to the east. To the northeast corner of the solar panels is a senior living facility, Stonegate Health Campus, developed before the solar facility.

Prior Use: Agricultural use

Real Estate Tax Information:

Prior to the development of the solar farm, the land under the Demille and Turrill solar installations were municipal-owned and were not subject to property tax. After development, in 2017, the land became taxable and taxes were \$82,889 total, as shown below.

PIN	Acres	2016 Taxes Paid	2017 Taxes Paid	Tax Increase	2016 Assessed Value	2017 Assessed Value	Value Increase
Lapeer County, MI							
L20-98-008-003-00*	110.84	\$ -	\$ 34,294	N/A	\$ -	\$ 726,700	N/A
L20-95-705-050-00*	254.84	\$ -	\$ 48,595	N/A	\$ -	\$ 1,029,750	N/A
TOTAL	365.68	\$ -	\$ 82,889	N/A	\$ -	\$ 1,756,450	N/A

* Prior to development as a solar farm, the parcels were municipal property without a taxable value.

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Paired Sale Analysis:

The maps, below, and on the following pages display properties adjoining the solar sites that are numbered in red for subsequent analysis.

Demille Solar Farm



DTE's Lapeer Solar Projects - Demille Adjoining Properties

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DTE's Lapeer Solar Projects - Demille Adjoining Properties

Work

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Turrill Solar Farm



DTE's Lapeer Solar Projects - Turrill Adjoining Properties

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DTE's Lapeer Solar Projects - Turrill Adjoining Properties

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In reviewing Adjoining Properties to study in a Paired Sale Analysis, several properties and sales were considered but eliminated from further consideration as discussed below.

We identified eight Adjoining Properties that sold since the solar farm started operations in May of 2017: Adjoining Properties 3, 4, 7, 9, 10, and 16 for the Demille Solar Farm, and Adjoining Properties 3 and 4 for the Turrill Solar Farm. Of these properties, three were considered atypical for the area.

Adjoining Property 7 adjacent to the Demille Solar farm is a split-level home with a finished walk out basement with a pool. The typical home in the area has a traditional basement and pools are atypical. The unusual nature of this sale was confirmed with the selling broker, Renee Voss (see comments below). We note that this home sold twice after the construction of the solar farm, once in September 2018 and again in August 2019. The appreciate rate between the two sale dates are analyzed further later in this section.

Adjoining Property 16 just south of the Demille Solar Farm is a 10.1-acre lot that is buffered by trees. The home is atypical for the area, as most homes are situated on lots between 1-acre and 1.5-acres in size and were built before 1980; this home was built in 2008. We interviewed the broker Josh Holbrook (see comments below) who confirmed the atypical nature of this property.

Adjoining Property 3, just west of the Turrill Solar Farm, was a ranch home with 1,348 square feet on a lot that was just over one acre. Comparables for homes of this size, type, and lot size were not available in the immediate market area. It should be noted that the price per square foot for this home (\$108.01) is significantly higher than median price per square foot of either data set we studied.

As a part of our research, we interviewed three local real estate brokers that sold homes adjacent to the Lapeer Solar farm. According to the brokers, there was no impact on the home prices or marketability due to the homes' proximity to the solar arrays.

Renee Voss of Coldwell Banker, selling broker of the raised ranch at 1138 Don Wayne Drive (Adjoining Property 7), which is adjacent to the Demille solar farm at the southeast corner, noted that there was no impact on this sale from the solar farm located to the rear. The home, which has a pool in the backyard, sold quickly with multiple offers, Voss stated.

Josh Holbrook, the selling broker of 1408 Turrill Road (known as Adjoining Property 16), located just south of the Demille Solar Farm, said the solar farm had no impact on the sale and that the community takes pride in the solar farm.

Anne Pence of National Realty Centers, the selling broker for 1126 Don Wayne Drive, a single-family home adjacent to the Demille solar farm (known as Test Area Sale 9), reported that "the solar farm did not have any effect on the sale of this home. The buyers did not care one bit about the solar field in the back yard. The fact is that you know no one is going to be behind you when they develop a solar farm in your back yard. And [sometimes the developer] put up trees to block the view. My in-laws also actually live at end of that street, even though they haven't sold or put their house on market, they don't mind the solar panels either. It's not an eyesore. And another house sold on that block, a raised ranch home, and it sold with no problems."

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Group 1 – Demille:

Adjoining Properties 3, 4, and 9 to the Demille Solar Farm were considered for a paired sales analysis, and we analyzed these properties as single-family home uses in Group 1. The improvements on these properties are located between 275 to 305 feet to the nearest solar panel.

Test Area Sales Group 1 - Demille Solar									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median Square Feet	Median Sale Date	Median Price PSF
3, 4, 9	1174 Alice Dr, 1168 Alice Dr, 1126 Don Wayne Drive	\$165,000	0.50	3	2.0	1973	1,672	Jan-19	\$105.26

We analyzed six Control Area Sales of single-family homes with similar construction and use that were not located in close proximity to the solar farm, which sold within a reasonable time frame from the median sale date of the Test Area Sales in Group 1. The Control Area Sales for Group 1 are ranch homes with three bedrooms and one and a half to two bathrooms. We excluded sales that were bank-owned, and those between related parties.

Control Area sales were adjusted for market conditions using the Federal Housing Finance Agency's House Price Index (HPI), a weighted, repeat-sales index measuring average price changes in repeat sales or refinancing of the same properties. The result of our analysis for DTE's Lapeer Solar Project - Group 1 is presented below.

CohnReznick Paired Sale Analysis DTE Lapeer Solar Group 1 - Demille Solar		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (3)	Adjoining solar farm	\$105.26
Control Area Sales (6)	No: Not adjoining solar farm	\$99.64
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		5.65%

The days on market for the three Test Area Sales had a median of 29 days on market (ranging from 5 to 48 days), while the median days on market for the Control Area sales was 21 days (ranging from 5 to 224 days), **and we note no significant marketing time differential.**

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Group 2 – Demille:

Adjoining Property 10 to the Demille Solar Farm was considered for a paired sales analysis, and we analyzed this property as a single-family home use in Group 2. The improvements on this property is located approximately 315 to the nearest solar panel.

Test Area Sale Group 2 - Demille Solar										
Adj. Property #	Address	Sale Price	Median Site Size (AC)	Bedrooms	Bathrooms	Year Built/Renovated	Square Feet	Other Features	Sale Date	Price PSF
10	1120 Don Wayne Drive	\$194,000	0.47	3	2.5	1976/2006	1,700	Above Ground Pool, Two Car Garage	Nov-19	\$114.12

We analyzed five Control Area Sales of single-family homes with similar construction and use that were not located in close proximity to the solar farm, which sold within a reasonable time frame from the median sale date of the Test Area Sales in Group 2. The Control Area Sales for Group 2 are similarly sized homes in Lapeer County with three to four bedrooms and two to three bathrooms, with a pool and an attached garage. We excluded sales that were bank-owned, and those between related parties.

Control Area sales were adjusted for market conditions using the Federal Housing Finance Agency's House Price Index (HPI), a weighted, repeat-sales index measuring average price changes in repeat sales or refinancing of the same properties. The result of our analysis for DTE's Lapeer Solar Project - Group 2 is presented below.

CohnReznick Paired Sale Analysis DTE Lapeer Solar Group 2 - Demille Solar		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$114.12
Control Area Sales (5)	No: Not adjoining solar farm	\$113.01
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		0.98%

The days on market for the Test Area Sales was 90 days on market, while the median days on market for the Control Area sales was 34 days (ranging from 3 to 73 days). We note the Test Area sale was initially listed above its market value, as there was a listing price decline after a month of marketing. We note since the final drop of the list price, there was only 51 days on market, which is within the range exhibited by the Control Area sales.

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Group 3 – Turrill:

Adjoining Property 4 to the Turrill Solar Farm was analyzed separately since it is a two-story home on a larger lot as Group 2. The home on Adjoining Property 4 is 290 feet from the property line to the nearest solar panel.

Test Area Sale Group 3 - Turrill Solar									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median Square Feet	Median Sale Date	Median Price PSF
4	1060 Cliff Drive	\$200,500	1.30	4	2.5	1970	2,114	Sep-18	\$94.84

We analyzed four Control Area single-family homes sales with similar construction that were not located in close proximity to the solar farm, which sold within a reasonable time frame from the sale date of Adjoining Property 4.

The Control Area Sales for Group 3 are 2-story homes with between two and four bedrooms and 2.5 to 3.0 bathrooms. We excluded sales that were bank-owned, and those between related parties.

Control Area sales were adjusted for market conditions using the Federal Housing Finance Agency's House Price Index (HPI), a weighted, repeat-sales index measuring average price changes in repeat sales or refinancing of the same properties. The result of our analysis for DTE's Lapeer Solar Project – Group 3 is presented below.

CohnReznick Paired Sale Analysis DTE Lapeer Solar Group 3 - Turrill Solar		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Adjoining solar farm	\$94.84
Control Area Sales (4)	No: Not adjoining solar farm	\$96.32
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		-1.53%

The days on market for the Test Area Sale was 2 days, while the median days on market for the Control Area sales was 35 days (ranging from 11 to 177 days), **and we note no negative marketing time differential.**

Noting no significant price differential, it does not appear that the DTE's Lapeer Solar had any negative impact on adjacent property values.

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Before & After Analysis – Demille Solar Project:

We note two of the Test Area Sales in Group 1 of the Demille Solar project (Adjoining Properties 4 and 9), one sale in Group 2 of the Demille Solar Farm (Adjoining Property 10), as well as Adjoining Property 7 have sold at least twice over the past 15 years. To determine if any of the rates of appreciation for these identified home sales were affected by the proximity to the Demille Solar farm, we prepared a Repeat-Sales Analysis on each identified adjoining property. First, we calculated the total appreciation between each sale of the same property, the number of months that elapsed between each sale, and determined the monthly appreciation rate. Then, we compared extracted appreciation rates reflected in the Federal Housing Finance Agency (FHFA) Home Price Index for Michigan's 48446 zip code (where the identified homes are located) over the same period. The index for zip codes is measured on a yearly basis and is presented below.

48446 Zip Code - Housing Price Index Change (Year over Year) Not Seasonally Adjusted						
Five-Digit ZIP Code	Year	Annual Change (%)	HPI	HPI with 1990 base	HPI with 2000 base	
48446	2004	2.02	438.38	206.29	111.35	
48446	2005	3.68	454.53	213.89	115.45	
48446	2006	-1.76	446.53	210.12	113.42	
48446	2007	-6.35	418.17	196.78	106.22	
48446	2008	-8.37	383.17	180.31	97.33	
48446	2009	-10.62	342.49	161.16	86.99	
48446	2010	-8.94	311.86	146.75	79.21	
48446	2011	-6.89	290.37	136.64	73.75	
48446	2012	0.29	291.22	137.04	73.97	
48446	2013	7.27	312.39	147.00	79.35	
48446	2014	7.10	334.56	157.43	84.98	
48446	2015	5.10	351.63	165.47	89.32	
48446	2016	6.10	373.08	175.56	94.76	
48446	2017	6.74	398.23	187.39	101.15	
48446	2018	5.96	421.96	198.56	107.18	
48446	2019	5.74	446.17	209.95	113.33	
48446	2020	4.99	468.43	220.43	118.98	

We have presented the full repeat sales analysis on the following page.

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Repeat Sales Analysis														48446 Zip Code - FHFA House Price Index Change			
Property ID	Address	Land Area (Acres)	Total Finished Living Area (SF)	Most Recent Sale Date	Most Recent Sale Price	Prior Sale Date	Prior Sale Price	Total Appreciation	Months Elapsed Between Sales	Monthly Appreciation Rate	Index Level During Year of Most Recent Sale	Prior Year Index Level	Total Appreciation	Monthly Appreciation Rate			
4	1168 Alice Drive	0.46	1,672	10/9/2019	\$176,000	12/8/2017	\$144,000	22.22%	22	0.92%	446.17	398.23	12.04%	0.52%			
4	1168 Alice Drive	0.46	1,672	12/8/2017	\$144,000	10/1/1993	\$100,000	44.00%	290	0.13%	398.23	238.05	67.29%	0.18%			
9	1126 Don Wayne Drive	0.50	1,900	5/21/2018	\$160,000	12/21/2007	\$119,000	34.45%	125	0.24%	446.17	418.17	6.70%	0.05%			
10	1120 Don Wayne Drive	0.47	1,700	11/8/2019	\$194,000	10/15/2014	\$173,200	12.01%	61	0.19%	446.17	334.56	33.36%	0.47%			
7	1138 Don Wayne Drive	0.47	2,128	9/7/2018	\$179,900	8/22/2014	\$148,500	21.14%	49	0.40%	446.17	334.56	33.36%	0.60%			
7	1138 Don Wayne Drive	0.47	2,128	8/28/2019	\$191,000	9/7/2018	\$179,900	6.17%	12	0.51%	446.17	446.17	0.00%	0.00%			
Median - Test Area Sales		0.47	1,800							0.32%				0.33%			
Median - Before/After		0.49	2,019							0.21%				0.11%			

Conclusion

When compared to the FHFA home price index for the local zip code, the median monthly appreciation rate of the sales of properties adjoining the Demille Solar Farm that sold before construction of the solar farm and again after construction of the solar farm outperformed the median for the zip code, as depicted in the far-right column in the table above (and highlighted in orange). Additionally, the extract appreciation rate for the resales of Adjoining Properties 4 and 7 that sold twice after the solar farm was constructed exhibited higher rates of appreciation than the Home Price Index for the zip code (highlighted in white). As such, we have concluded that there does not appear to be a consistent detrimental impact on properties adjacent to the Demille Solar Farm.

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NEW ROAD SOLAR, MIDDLESEX COUNTY, NEW JERSEY

Coordinates: Latitude 40.403238, Longitude -74.56779

PINs: 1221_96_39.03, 1221_96_39.01, 1221_96_43.01, 1221_96_36

Population Density (2021): 1,112 people per square mile (Largest City = New Brunswick)

Total Land Size: approximately 68 acres

Date Project Completed: June 2018

Output: 10 MW AC



The New Road Solar project is located in the southwest portion of Middlesex County, New Jersey, in South Brunswick Township. The 10 MW AC solar facility became operational in June 2018 and sits on approximately 68 acres. The site was a landfill from 1959 to 1979. From 1982 to 1985, it underwent remediation to rid the area of any hazardous materials. The Superfund site had remained unused until it was redeveloped with the solar facility. Given the length of time between closure of the previous use and the development of the solar facility,

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we believe enough time passed that the market regards the site as a passive, open space use; thus, no original negative influence was perceived to persist that might otherwise taint the study.

The 40,000 solar panels are owned, operated, and maintained by CEV, the renewable energy subsidiary of New Jersey Resources and the project was redeveloped in partnership with CEP Renewables, a firm specializing in remediated sites.

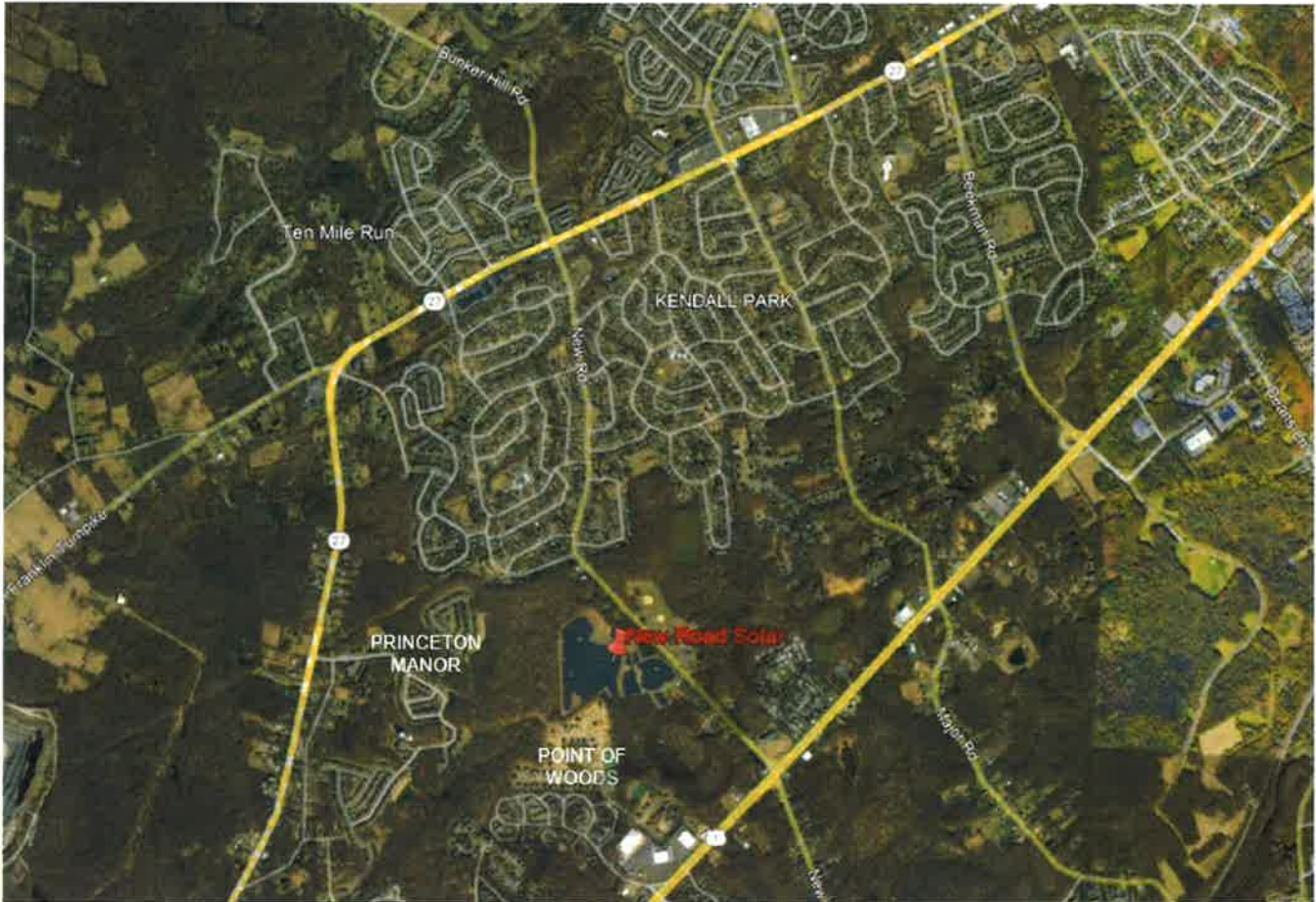
The Surrounding Area: The New Road solar installation is in Kendall Park, a census designated place, in South Brunswick Township. Much of the town of South Brunswick's 42 square miles remain undeveloped and there are still significant amounts of wetlands, woodlands, and open space within the community.

The solar site is approximately nine miles southwest of New Brunswick, nine miles northeast of Princeton and 17 miles from Trenton, the state capital. New Jersey Transit's northeast corridor trains stop in Princeton and a new station is being built in North Brunswick that will take commuters directly into New York City's Penn Station.

The Immediate Area: The immediate area is primarily residential with supporting commercial uses, and there are some industrial warehouse uses to the southeast of the site in Dayton. In neighboring Franklin Township, there is an active quarry approximately four miles southwest of the solar site.

The solar site is on the west side of New Road that runs roughly north-south between NJ-27 and US Route 1. Along New Road is the Kendall Park First Aid and Rescue Squad facility, a preschool, and across the New Road from the solar site is the municipal Woodlot Park with baseball fields, tennis courts and a recreation center.

The solar site is buffered from neighboring residential developments by thick groves of woodlands, as seen in the image on the following page.



New Road Solar – Overview Map of Surrounding Subdivisions

Kendall Park is a planned residential community of 1,500 houses built between 1956 and 1961, adjacent to the north and northeast of the solar site. The development was built in three stages: the initial development in 1956-67 (between New Road and Sand Hill Road-the middle section), the Constable development in 1959 (south of New Road-the south section), followed by the Greenbrook development (north of Sand Hill Road-the north section) in 1961. The initial development offered two styles of three-bedroom, one and a half bath ranch-style homes, mostly built on one third-acre lots. The subsequent sections offered a wider selection of styles, including four-bedroom ranches and four-bedroom colonial-style homes. The development of Kendall Park doubled the population of South Brunswick Township and marked the beginning of its transformation from a rural farming area to a suburban bedroom community. Several other nearby tracts developed after Kendall's original development are also part of the Census Designated Place known as Kendall Park.

National homebuilders, Toll Brothers, developed the luxury active adult age restricted community (55+) of single family homes to the west of the solar site, called Princeton Manor. Sales of the 349-home community started in 2006 and the last homes, closest to the solar site, were built circa 2015-2017. Home models range from 1,814

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to 2,821 square feet, and some homes had an additional basement option. The community includes an 11,000 square foot clubhouse with spa facilities, bocce and tennis courts, billiards, an outdoor swimming pool and spa, and jogging and bicycle trails. The homeowner's association handles exterior maintenance of homes and mows lawns and handles snow removal for all homes. Monthly homeowner's fees are in the \$300s.

Point of Woods is a luxury home subdivision of 72 single family homes built in the last several years by the Kaplan Companies that is adjacent to the solar site to the south. The community has homes with four different floorplans. The houses feature four or five bedrooms, three or four bathrooms, two- or three-car garages and full basements, as well as custom options. Floorplans range from 3,638 to 4,291 square feet of above grade living space and prices ranged from \$900,000 to recent home sales of over \$1.3 million.

The homes in the Point of Woods subdivision that are the closest to the solar site there are approximately 150 to 250 feet between the homes and the panels.

The detailed descriptive data on the homes backing to the solar site that details square footage and bedrooms and bathrooms is not publicly available and was not able to be obtained from the developer. The homes were not listed on the Multiple Listing Service (MLS) at the time of sale; therefore, we could not reliably conduct a paired sale analysis on them. However, in public recording documents the sale prices for the five homes sold adjacent to the solar site, since development of the solar facility, range from \$998,778 to \$1,336,613. Given the difficulty in obtaining the official home and lot sizes of the recent sales within the Point of Woods subdivision, we have not performed a paired sales analysis of these homes. However, we do note the relatively large sale prices of the homes in this subdivision are approximately 150 to 250 away from solar panels.

Real Estate Tax Information: The solar farm is located on municipal government owned land and is not subject to real estate taxation.

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The map below displays the properties adjoining the solar arrays and are numbered for subsequent analysis in red boxes.



New Road Solar—Map of Adjoining Properties

Paired Sales Analysis

We have considered only one type of paired sales analysis, which was comparing sales of properties not proximate to the solar farm (Control Area Sales) to the sales of adjoining properties after the completion of the solar farm project (Test Area Sales). We identified two groups of Test Area Sales based on primarily on location and home type. We have analyzed sales of homes that occurred after the completion of the solar farm, starting in June 2018. The first group comprises the one sale in the Princeton Manor subdivision that occurred after the completion of the solar farm. The second group consists of homes in the Kendall Park subdivision.

We have excluded one home sale that was initially considered for a Test Area Sale, the home located at 12 Wheeler Road in the Kendall Park subdivision, Adjoining Property 27. After speaking with the listing broker, we determined that the condition of this home at sale was far inferior to all others in the marketplace. The broker commented that the home needed at least \$30,000 of repairs to cure deferred maintenance, (for example, the roof needed replacement, the foundation had shifted, and the kitchen floor was slanted), and the interior finishes had never been updated since construction in 1958. Additionally, the garage had been illegally converted to living space with poor construction, so the property did not have covered parking unlike virtually every other home in the Kendall Park market. The seller made a \$10,000 concession at closing to cover more issues

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discovered at inspection as well. Due to the inferior condition of the home, we considered it to be an outlier and could not find comparable properties to use as Control Area Sales.

We have found Control Area Sale data through the RealQuest database which aggregates real estate sales from public records and verified marketing information through online sources such as Zillow.com, Redfin.com and Realtor.com. We have verified these sales through county records, and conversations with brokers and sellers. We excluded sales that were not arm's length, such as REO sales or bank-owned properties, or those between related parties.

It is important to note that these Control Area Sales are not adjoining to any solar farm, nor do they have a view of one from the property. Therefore, the announcement nor the completion of the solar farm use could not have impacted the sales price of these properties.

Work in Progress 4.1.22

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Group 1

Adjoining Property 13 (Test Area Sale) was considered for a paired sales analysis, and we analyzed this property as a single-family home use, a two-story, four bedroom and three bathroom, 2,884 square foot home located on a 0.15- acre parcel that sold in July 2020. This home is in the Princeton Manor subdivision. The property line is approximately 1,492 feet from the closest solar panel, and the improvements are approximately 1,520 feet from the closest solar panel. The following table outlines the other important characteristics of Adjoining Property 13.

New Road Solar Test Area Sales - Group 1									
Adj. Property #	Address	Sale Price	Site Size (AC)	Beds	Baths	Year Built	GLA (SF)	Sale Date	Price PSF
13	54 Inverness Drive	\$630,000	0.15	4	3	2016	2,884	Jul-20	\$218.45



We have utilized two-story single-family home sales for Control Area Sales also located exclusively in the Princeton Manor subdivision as those are each similar in square footage and layout, as well as quality of construction as the Test Area Sale.

We analyzed nine Control Area Sales and adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index, for the period from January 2019 to the end of December 2020, the most recent data available, (24 months).

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When adjusting sales prices for market conditions (time between date of Test Area Sale and Control Area Sale date) throughout this analysis we have used regression analysis to identify the appropriate monthly market conditions adjustment. We utilized the Federal Housing Finance Agency House Price Index (FHFA HPI) for Middlesex County for the average monthly rate of appreciation. The FHFA HPI is a broad measure of the movement of single-family house prices. The FHFA HPI is a weighted, repeat-sales index, meaning that it measures average price changes in repeat sales or re-financings on the same properties. The FHFA HPI serves as a timely, accurate indicator of house price trends at various geographic levels.²⁶

The results of the paired sales analysis for Group 1 - Adjoining Property 13 are presented below.

CohnReznick Paired Sale Analysis New Road Solar Group 1		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$218.45
Control Area Sales (9)	No: Not adjoining solar farm	\$201.78
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		8.26%

The difference between the unit price of the Test Area Sale and the Adjusted Median Unit Price of the Control Area Sales is considered reasonable, especially given the age of the home, which was built in 2016. Out of nine Control Area Sales only two were built after 2013 (2015 and 2016, respectively), and the median year built was 2012.

Noting no negative price differential. it does not appear that the New Road Solar installation impacted the sale price of the Test Area Sale, Adjoining Property 13. We note that the distance from the panels to the Test Area Sale is over 1,500 linear feet and that heavy woods interrupts any views from the house to the solar panels. Given these characteristics, we have excluded this paired sales analysis from our reconciliation at the end of this report but have retained the analysis for information purposes.

²⁶ <https://www.fhfa.gov/DataTools/Downloads/Pages/House-Price-Index.aspx>

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Group 2

We have grouped four home sales in the Kendall Park subdivision that sold after the completion of the solar farm and studied them together. The single-story ranch homes had either three or four bedrooms and either two or three bathrooms, and ranged in size from 1,572 to 2,464 square feet. Because these homes were built over a four year period (1958 to 1961) and are similar in style, we considered them on the whole comparable to 20 Control Area Sales in the same subdivision that share the range of physical characteristics. The solar panels range from 905 feet from panel to property line of the Test Area Sales to 1,370 feet, and 945 feet to 1,483 feet from solar panel to home improvement. The homes are separated from solar panels by dense woodlands.

The table below outlines the other important characteristics of the homes in Group 2.

New Road Solar Test Area Sales - Group 2									
Adj. Property #	Address	Sale Price	Site Size (AC)	Beds	Baths	Year Built/Renovated	GLA (SF)	Sale Date	Price PSF
16	6 Quentin Road	\$485,000	0.42	4	3.0	1958/2018	2,464	Jul-18	\$196.83
22	22 Wheeler Road	\$380,500	0.31	4	3.0	1958	1,959	Aug-20	\$194.23
29	8 Wheeler Road	\$358,000	0.31	4	2.0	1958	2,220	Nov-19	\$161.26
31	2 Wheeler Road	\$365,000	0.51	3	2.0	1958	1,572	Jun-18	\$232.19
Median		\$372,750	0.37	4	2.5	1958	2,090	Mar-19	\$195.53



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We have utilized single-family home sales for Control Area Sales also located exclusively in the Kendall Park subdivision as those were built during the same time-frame and are each similar in square footage and layout, as well as quality of construction as the Test Area Sales. In Group 2, we have excluded homes that had an in-ground pool.

We analyzed 18 Control Area Sales and adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index, for the period from January 2018 to the end of December 2020, the latest data available (36 months).

The results of the paired sales analysis for Group 2 are presented below.

CohnReznick Paired Sale Analysis New Road Solar Group 2		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (4)	Adjoining solar farm	\$195.53
Control Area Sales (18)	No: Not adjoining solar farm	\$199.89
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		-2.18%

The small differential between the Test Area Sales and the Control Area Sales is within the range of normal market variance, and therefore it does not appear that the New Road Solar installation impacted the sale price of the Test Area Sales in the Kendall Park subdivision. We note that the control data had a smaller median home size, which likely explains the relative difference in adjusted median price per square foot. Again, we note that the linear distance from the Test Area Sales to the adjacent panels is over 900 feet and that there is heavy wooded screening between the Test Area Sales and the solar facility. Given these physical characteristics, we have included this paired sales analysis as an additional consideration in our analysis but have excluded it from the reconciliation at the end of this report.

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TECHNIQUE 3: MARKET COMMENTARY

Additionally, we have contacted market participants such as appraisers, brokers, and developers familiar with property values around solar farms. Commentary from our conversations with these market participants is recorded below.

Cheryl Bundek, the Supervisor of Assessments of Kent County, Delaware, reported that when she worked in the city of Dover's tax assessor's office, they had never received a complaint or appeal request about assessed values from home owners in nearby manufactured home communities regarding the Dover Sun Park solar farm.

Nancy Cook in the South Brunswick Township tax assessor's office, in Middlesex County, New Jersey, said that to her recollection there had been no complaints or appeals filed about the presence of the New Road Solar facility in the township from nearby subdivision homeowners.

The Interim Assessor for the town of Whitestown in Oneida County, New York, Frank Donato, stated that he has seen no impact on property values of properties nearby solar farms.

Steve Lehr at the Department of Assessment for Tompkins County, New York, mentioned that the appraisal staff has made no adjustments regarding assessed values of properties surrounding solar farms. Marketing times for properties have also stayed consistent. Lehr noted that a few of the solar farms in Tompkins County are on land owned by colleges and universities and a few are in rural areas.

At this point in time, Al Fiorille, Senior Valuation Specialist in the Tompkins County Assessment department in New York, reported that he cannot measure any negativity from the solar farms and arrays that have been installed within the county.

Mason Hass, the Riverhead Assessor in Suffolk County, on Long Island, New York stated that the solar farms in his town are in industrial zoned areas, and he has not seen any impact on adjacent properties.

The Assessor for the town of Smithtown in Suffolk County, New York, Irene Rice, has not seen any impact on property values as a result of their location near the newly built solar farms in her town.

In the Assessor's office in the town of Seneca, Ontario County, New York, Shana Jo Hamilton stated that she has seen no impact on property values of properties adjacent to solar farms.

Michael Zazzara, Assessor of the City of Rochester in Monroe County, New York commented that the City has a couple of solar farms, and they have seen no impact on nearby property values and have received no complaints from property owners.

While there are one or two homes nearby to existing solar farms in the town of Lisbon in St. Lawrence County, New York, Assessor Stephen Teele has not seen any impact on property values in his town. The solar farms in the area are in rural or agricultural areas in and around Lisbon.

The Assessor for the Village of Whitehall in Washington County, New York, Bruce Caza, noted that there are solar farms located in both rural and residential areas in the village and he has seen no impact on adjacent properties, including any concerns related to glare from solar panels.

Laurie Lambertson, the Town Assessor for Bethlehem, in Albany County, New York noted that the solar farms in her area are tucked away in rural or industrial areas. Lambertson has seen no impact on property values in properties adjacent to solar farms.

A Miami Dade County, Florida Assessor stated that they do not reduce assessed property values for adjacency to solar farms.

A Putnam County, Florida Assessor stated that they have not seen a reduction in assessed value for adjacency to solar farms.

Renee Davis, Tax Administrator for Bladen County, North Carolina, stated that she has not seen any effect on property values due to proximity to a solar farm.

We spoke with Jim Brown, an appraiser for Scotland County, North Carolina, who stated that he has seen no effect on property values due to proximity to a solar farm.

We spoke with Gary Rose, a tax assessor for Duplin County, North Carolina, who stated that he has seen no effect on property values with regard to proximity to a solar farm.

Kathy Renn, a property Valuation Manager for Vance County, North Carolina, stated that she has not noticed any effect on property values due to proximity to a solar farm.

Larry Newton, a Tax Assessor for Anson County, North Carolina, stated that there are six solar farms in the county ranging from 20 to 40 acres and he has not seen any evidence that solar farms have had any effect on property values due to proximity to a solar farm.

We spoke with Patrice Stewart, a Tax Administrator for Pasquotank County, North Carolina, and she has seen no effect on land or residential property values due to proximity to the solar farms in Pasquotank County.

We spoke with the selling broker of the Adjoining Property for Elm City Solar, in North Carolina, Selby Brewer, who said the solar farm did not impact the buyer's motivation.

We spoke with Amy Carr, Commissioner of Revenue in Southampton County, Virginia, who stated that most of the solar farms are in rural areas, but she has not seen any effect or made any adjustments on property values. They have evaluated the solar farmland considering a more intense use, which increased the assessed value.

Lisa Ruhlen, Real Estate Clerk in the Hardin County, Ohio Auditor's office reported that as of first quarter 2022, there have been no complaints or petitions to lower assessed values on homes near the Hardin Solar farm. Primarily because the solar facility went into operation in 2021 and there has not been a tri-annual reassessment

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of the county yet. However, in the northern part of the county, where solar facilities have been in operation longer, there have still been no complaints about property value impacts.

Bill Nichols, Chief Appraiser with the Trumbull County Auditor in Ohio, stated that he has seen no effect on property values in properties near a solar farm and no one has come in to complain to the Auditor's office about an impact on their property value.

Beth Fritz, the Valuation Specialist in the Wood County, Ohio Auditor's office has seen no effect or impact on residential, commercial, or agricultural property values on any properties with proximity to a solar farm.

Jarra Underwood, Wayne County Auditor in Ohio reported that she has seen no impact on property values due to their location near a solar farm. There is one solar farm in the county near residential properties and while it is not a highly sought after location, Underwood has still not seen an effect on those property values due to the nearby solar farm.

We spoke with Ken Surface, a Senior Vice President of Nexus Group. Nexus Group is a large valuation group in Indiana and has been hired by 20 counties in Indiana regarding property assessments. Mr. Surface is familiar with the solar farm sites in Harrison County (Lanesville Solar Farm) and Monroe County (Ellettsville Solar Farm) and stated he has noticed no impact on property values from proximity to these sites.

We interviewed Missy Tetrick, a Commercial Valuation Analyst for the Marion County Indiana Assessor. She mentioned the Indy Solar III sites and stated that she saw no impact on land or property prices from proximity to this solar farm.

We spoke with Dorene Greiwe, Decatur County Indiana Assessor, and she stated that solar farms have only been in the county a couple of years, but she has seen no impact on land or property prices due to proximity to this solar farm.

Connie Gardner, First Deputy Assessor for Madison County Indiana, stated that there are three solar farms in her county, and she has seen no impact on land or property prices due to proximity to these solar farms.

We spoke with Tara Shaver, Director of Administration for Marion County, Indiana Assessor/Certified Assessor, and she stated that she has seen no impact on land or property prices due to proximity to solar farms.

Candace Rindahl of ReMax Results, a real estate broker with 16 years of experience in the North Branch, Minnesota area, said that she has been in most of the homes surrounding the North Star Solar Farm and personally sold two of them. She reported that the neighboring homes sold at market rates comparable to other homes in the area not influenced by the solar farm, and they sold within 45 days of offering, at the end of 2017, which was in line with the market.

Dan Squires, Chisago County Tax Assessor, confirmed that the Chisago County Assessor's Office completed their own study on property values adjacent to and in close vicinity to the solar farm from January 2016 to October

2017. From the study, the assessor determined the residential homes adjacent to the North Star Solar Farm were in-line with the market and were appreciating at the same rate as the market.²⁷

A Clark County, Kentucky Property Valuation Administrator, Jason Neely, noted there have been no complaints regarding East Kentucky Power Cooperative, Inc.'s Cooperative Solar One project installed in November 2017 located in the county, which has a capacity to generate 8.5 MW of electricity. Additionally, Neely stated he has not seen any evidence of lowered property values in the area and no reduction in assessed property values has been made due to proximity to the solar farm.

A Grant County, Kentucky Assessor stated that they have not seen a reduction in assessed property values or market values for adjacency to solar farms.

A McNairy County, Tennessee Assessor stated that they have not applied reductions to assessed value for adjacency to solar farms.

Work in Progress 4.1.22

²⁷ Chisago County Press: County Board Real Estate Update Shows No "Solar Effects" (11/03/2017)

SOLAR FARM FACTORS ON HARMONY OF USE

Zoning changes and conditional use permits often require that the proposed use is compatible with surrounding uses.

The following section analyzes specific physical characteristics of solar farms and is based on research and CohnReznick's personal solar farm site visits and indicate that solar farms are generally harmonious with surrounding property and compliant with most zoning standards.

Appearance: Most solar panels have a similar appearance to a greenhouse or single-story residence can range from 8 to 20 feet but are usually not more than 15 feet high. As previously mentioned, developers generally surround a solar farm with a fence and often leave existing perimeter foliage, which minimizes the visibility of the solar farm. The physical characteristics of solar farms are compatible with adjoining agricultural and residential uses.

Sound: Solar panels in general are effectively silent and sound levels are minimal, like ambient sound. There are limited sound-emitting pieces of equipment on-site, which only produce a quiet hum (e.g., substation). However, these sources are not typically heard outside the solar farm perimeter fence.

Odor: Solar panels do not produce any byproduct or odor.

Greenhouse Gas (GHG) Emissions: Much of the GHG produced in the United States is linked to the combustion of fossil fuels, such as coal, natural gas, and petroleum, for energy use. Generating renewable energy from operating solar panels for energy use does not have significant GHG emissions, promoting cleaner air and reducing carbon dioxide (CO₂) emissions to fight climate change.

Traffic: The solar farm requires minimal daily onsite monitoring by operational employees and thus minimal operational traffic.

Hazardous Material: Modern solar panel arrays are constructed to U.S. government standards. Testing shows that modern solar modules are both safe to dispose of in landfills and are also safe in worst case conditions of abandonment or damage in a disaster.²⁸ Reuse or recycling of materials would be prioritized over disposal. Recycling is an area of significant focus in the solar industry, and programs for both batteries and solar panels are advancing every year. While the exact method of recycling may not be known yet as it is dependent on specific design and manufacturer protocol, the equipment is designed with recyclability of its components in mind, and it is likely that solar panel and battery energy storage recycling and reuse programs will only improve in 25 years' time.

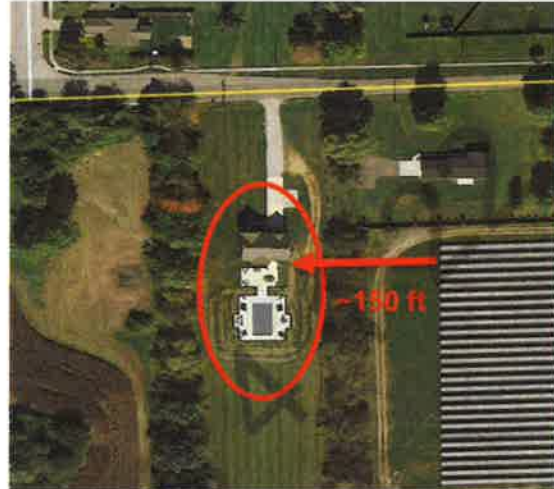
Examples of homes built adjoining to solar farms are presented on the following pages.

²⁸ Virginia Solar Initiative - Weldon Cooper Center for Public Service – University of Virginia
(<https://solar.coopercenter.org/taxonomy/term/5311>)

For the Dominion Indy III solar farm, the adjacent land to the west was acquired and subsequently developed with a large estate home – after the solar panels had been in operation for years.



*Dominion Indy III Solar Farm
September 2014*



*Dominion Indy III Solar Farm
October 2016*



Estate home adjacent to Dominion Indy III Solar Farm

In ground pool and attached garage (home cost estimated at \$450,000 - October 2015)

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Innovative Solar 42 (2017)
Cumberland County, NC

- Single Family Home Development (1)
- End-user built
 - 2,933 SF
 - Completed on 3/1/2019
 - Cost estimate: \$170,300

- Single Family Home Development (2)
- Developer built
 - 4 Bedroom
 - 3 Bathroom
 - 2,401 SF
 - Sold 6/18/19 for \$265,900 (\$110.75/sf)



Innovative Solar 42 (2019)
Cumberland County, NC

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Developer Built Home

Sold 6/18/19 for \$265,900 (\$110.75/sf)

Cumberland County, NC (adjacent to Innovative 42 solar farm)

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Portage Solar Farm, IN
October 2015



Portage Solar Farm, IN
October 2016



4,255 square foot estate home under construction, adjacent to Portage Solar Farm located in Indiana

On-site pond and attached garage (cost estimated at \$465,000) April 2018

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The Brighton PV Solar farm became operational in December 2012. Located in Adams County, north of Denver, CO, this solar farm has a capacity of 1.8 MW AC and is located on a triangular parcel of land east of an area of existing custom-built estate homes. A photo of one home (15880 Jackson Street) located directly north of the circled area below is presented to the right.



In December 2012, the 2.55-acre lot encircled in red below (15840 Jackson Street) was purchased for future development of a single-family home. This home was built in 2017, and per the county assessor, the two-story home is 3,725 square feet above ground with 4 bedrooms and 3.5 bathrooms. According to the building permit issued in August 2016, the construction cost was budgeted at \$410,000.



Brighton PV Solar, Adams County, CO
June 2016



Brighton PV Solar, Adams County, CO
June 2017

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SUMMARY OF ADJOINING USES

The table below summarizes each Existing Solar Farm’s adjoining uses.

Solar Farm #	Solar Farm	Composition of Surrounding Uses (% of Surrounding Acreage)					Avg. Distance from Panels to Improvements (Feet)
		Acreage % of Surrounding Agricultural Uses	Acreage % of Surrounding Residential Uses	Acreage % of Surrounding Industrial Uses	Acreage % of Surrounding Office Uses	Acreage % of Surrounding Other Uses	
1	North Star	75.00%	15.00%	0.00%	0.00%	10.00%	325
2	Dominion Indy Solar III	97.70%	2.30%	0.00%	0.00%	0.00%	474
3	Dougherty Solar	76.42%	22.46%	1.12%	0.00%	0.00%	350
4	Miami-Dade Solar Energy Center	56.10%	10.00%	0.00%	0.00%	34.00%	915
5	Barefoot Bay Solar Energy Center	0.00%	9.71%	88.08%	0.00%	2.20%	734
6	Innovative Solar 42	20.00%	25.00%	0.00%	0.00%	55.00%	405
7	Woodland Solar	25.00%	5.00%	0.00%	0.00%	60.00%	615
8	Rutherford Farm	10.00%	40.00%	10.00%	0.00%	40.00%	180
9	Elm City Solar	20.00%	15.00%	10.00%	0.00%	50.00%	295
10	Lapeer Solar	60.00%	35.00%	0.00%	0.00%	5.00%	260

Overall, the vast majority of the surrounding acreage for each comparable solar farm is made up of agricultural land, some of which have homesteads. There are also smaller single-family home sites that adjoin the solar farms analyzed in this report. Generally, these solar farms are sound comparables to Brookfield Renewable, U.S.’s proposed solar project in terms of adjoining uses, location, and size.

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SUMMARY AND FINAL CONCLUSIONS

The purpose of this property value impact report is to determine whether the presence of a solar farm has caused a measurable and consistent impact on adjacent property values. Under the identified methodology and scope of work, CohnReznick reviewed published methodology for measuring impact on property values as well as published reports that analyzed the impact of solar farms on property values. These studies found little to no measurable and consistent difference between Test Area Sales and Control Area Sales attributed to the solar farms.

A summary of the chosen CohnReznick impact studies prepared is presented below.

CohnReznick Solar Analysis Conclusions									
#	Solar Farm	Number of Test Area Sales	Number of Control Area Sales	Median Adjoining Property Sale (Test Area) Price per Unit	Control Area Sales Median Price per Unit	Difference (%)	Avg. Feet from Panel to Lot	Avg. Feet from Panel to House	Impact Found?
Single-Family Residential									
1	North Star Solar Group 1	3	11	\$151.93	\$139.50	+8.91%	123	358	No Impact
	North Star Solar Group 2	1	10	\$119.82	\$116.33	+3.00%	152	225	No Impact
	North Star Solar Group 3*	1	10						
	North Star Solar Group 4	1	7	\$172.41	\$170.88	+0.91%	90	180	No Impact
	North Star Solar Group 5	1	8	\$205.09	\$170.88	+20.02%	90	280	No Impact
	North Star Solar Group 6	1	4	\$114.48	\$120.49	-4.99%	130	730	No Impact
	North Star Solar Group 7	1	11	\$156.84	\$135.63	+15.64%	200	330	No Impact
	North Star Solar Group 8	1	5	\$139.70	\$132.68	+5.29%	295	800	No Impact
	North Star Solar Group 9	1	8	\$101.63	\$103.95	-2.22%	115	285	No Impact
2	Indy Solar III Group 2	4	8	\$59.10	\$57.84	+2.18%	240	350	No Impact
	Indy Solar III Group 3	7	11	\$72.15	\$71.69	+0.65%	165	300	No Impact
3	Dougherty Solar	1	5	\$74.55	\$76.23	-2.21%	202	312	No Impact
5	Barefoot Bay Solar Energy Center Group 2	5	126	\$95.90	\$93.95	+2.07%	675	750	No Impact
6	Innovative Solar 42 Group 1	1	7	\$107.09	\$100.18	+6.91%	215	405	No Impact
	Innovative Solar 42 Group 2	1	7	\$111.77	\$105.34	+6.10%	240	300	No Impact
7	Rutherford Farm	1	6	\$53.46	\$52.49	+1.85%	135	180	No Impact
8	Elm City Solar	1	8	\$56.60	\$55.57	+1.85%	255	295	No Impact
9	Woodland Solar	1	5	\$144.63	\$137.76	+4.99%	420	615	No Impact
10	DTE Lapeer Solar Group 1	3	6	\$105.26	\$99.64	+5.65%	205	285	No Impact
	DTE Lapeer Solar Group 2	1	5	\$114.12	\$113.01	+0.98%	225	315	No Impact
	DTE Lapeer Solar Group 3	1	4	\$94.84	\$96.32	-1.53%	160	290	No Impact
Median Variance in Sale Prices for Test to Control Areas						+2.13%			
38 Adjoining Test Sales studied and compared to 272 Control Sales									
* Note, the paired sale analysis for this group is an outlier as determined earlier in this report and was excluded from this summary table.									
Land (Agricultural/Single Family Lots)									
2	Indy Solar III Group 1	1	4	\$8,210	\$8,091	+1.47%	280	-	No Impact
4	Miami-Dade Solar Energy Center	3	6	\$82,491	\$81,866	+0.76%	766	-	No Impact
5	Barefoot Bay Solar Energy Center Group 1	2	7	\$54,500	\$51,000	+6.86%	475	-	No Impact
Median Variance in Sale Prices for Test to Control Areas						+1.47%			
6 Adjoining Test Sales studied and compared to 17 Control Sales									

As summarized above, we evaluated 44 property sales adjoining existing solar facilities (Test Area Sales) and 289 Control Area Sales. In addition, we studied a total of 62 Test Area Sales and 1,035 Control Area Sales in four Before and After analyses. In total, we have studied over 1,430 sale transactions.

The solar farms analyzed reflected sales of property adjoining an existing solar farm (Test Area Sales) in which the unit sale prices were effectively the same or higher than the comparable Control Area Sales that were not near a solar farm. The conclusions support that there is no negative impact for improved residential homes adjacent to solar, nor agricultural acreage. This was confirmed with market participants interviews, which

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provided additional insight as to how the market evaluates farmland and single-family homes with views of the solar farm.

It can be concluded that since the Adjoining Property Sales (Test Area Sales) were not adversely affected by their proximity to the solar farm, that properties surrounding other proposed solar farms operating in compliance with all regulatory standards will similarly not be adversely affected, in either the short or long term periods.

Based upon the examination, research, and analyses of the existing solar farm uses, the surrounding areas, and an extensive market database, we have concluded that **no consistent negative impact has occurred to adjacent property values that could be attributed to proximity to the adjacent solar farm**, with regard to unit sale prices or other influential market indicators. Additionally, in our workfile we have retained analyses of additional existing solar farms, each with their own set of matched control sales, which had consistent results, indicating no consistent and measurable impact on adjacent property values. This conclusion has been confirmed by numerous county assessors who have also investigated this use's potential impact on property values.

Work in Progress

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If you have any questions or comments, please contact the undersigned. Thank you for the opportunity to be of service.

Respectfully submitted,

CohnReznick LLP

Andrew R. Lines, MAI
Principal - Valuation Advisory Services
Certified General Real Estate Appraiser

Patricia L. McGarr, MAI, CRE, FRICS
National Director - Valuation Advisory Services
Certified General Real Estate Appraiser

Delaware License No. X5-0011520
Expires 7/28/2022
Florida License No. RZ3899
Expires 11/30/2022
Indiana License No. CG41500037
Expires 6/30/2022
Kentucky License 5663
Expires 6/30/2022
Georgia License No. 360939
Expires 10/31/2023

Indiana License No. CG49600131
Expires 6/30/2022
North Carolina License No. A8131
Expires 6/30/2022
Virginia License No. 4001016998
Expires 3/31/2024
Michigan License No. 1201072979
Expires 7/31/2022

Sonia K. Singh, MAI
Director – Valuation Advisory Services
Certified General Real Estate Appraiser

Virginia License No. 4001017615
Expires 3/31/2024

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CERTIFICATION

We certify that, to the best of our knowledge and belief:

1. The statements of fact and data reported are true and correct.
2. The reported analyses, findings, and conclusions in this consulting report are limited only by the reported assumptions and limiting conditions, and are our personal, impartial, and unbiased professional analyses, findings, and conclusions.
3. We have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved.
4. We have performed no services, as an appraiser or in any other capacity, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment.
5. We have no bias with respect to the property that is the subject of this report, or the parties involved with this assignment.
6. Our engagement in this assignment was not contingent upon developing or reporting predetermined results.
7. Our compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value finding, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this report.
8. Our analyses, findings, and conclusions were developed, and this report has been prepared, in conformity with the requirements of the Code of Professional Ethics and Standards of Professional Appraisal Practice of the Appraisal Institute, which includes the Uniform Standards of Professional Appraisal Practice (USPAP).
9. The use of this report is subject to the requirements of the Appraisal Institute relating to review by its duly authorized representatives.
10. Patricia L. McGarr, MAI, CRE, FRICS, Andrew R. Lines, MAI, and Sonia K. Singh, MAI have viewed the exterior of all comparable data referenced in this report in person, via photographs, or aerial imagery.
11. We have not relied on unsupported conclusions relating to characteristics such as race, color, religion, national origin, gender, marital status, familial status, age, and receipt of public assistance income, handicap, or an unsupported conclusion that homogeneity of such characteristics is necessary to maximize value.
12. Michael F. Antypas, TJ Schemmel, and Amanda G. Edwards provided significant appraisal consulting assistance to the persons signing this certification, including data verification, research, and administrative work all under the appropriate supervision.
13. We have experience in reviewing properties similar to the subject and are in compliance with the Competency Rule of USPAP.
14. As of the date of this report, Patricia L. McGarr, MAI, CRE, FRICS, Andrew R. Lines, MAI, and Sonia K. Singh, MAI have completed the continuing education program for Designated Members of the Appraisal Institute.

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If you have any questions or comments, please contact the undersigned. Thank you for the opportunity to be of service.

Respectfully submitted,

CohnReznick LLP

Andrew R. Lines, MAI
Principal - Valuation Advisory Services
Certified General Real Estate Appraiser

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Certified General Real Estate Appraiser

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ASSUMPTIONS AND LIMITING CONDITIONS

The fact witness services will be subject to the following assumptions and limiting conditions:

1. No responsibility is assumed for the legal description provided or for matter pertaining to legal or title considerations. Title to the property is assumed to be good and marketable unless otherwise stated. The legal description used in this report is assumed to be correct.
2. The property is evaluated free and clear of any or all liens or encumbrances unless otherwise stated.
3. Responsible ownership and competent management are assumed.
4. Information furnished by others is believed to be true, correct, and reliable, but no warranty is given for its accuracy.
5. All engineering studies are assumed to be correct. The plot plans and illustrative material in this report are included only to help the reader visualize the property.
6. It is assumed that there are no hidden or unapparent conditions of the property, subsoil, or structures that render it more or less valuable. No responsibility is assumed for such conditions or for obtaining the engineering studies that may be required to discover them.
7. It is assumed that the property is in full compliance with all applicable federal, state, and local and environmental regulations and laws unless the lack of compliance is stated, described, and considered in the evaluation report.
8. It is assumed that the property conforms to all applicable zoning and use regulations and restrictions unless nonconformity has been identified, described and considered in the evaluation report.
9. It is assumed that all required licenses, certificates of occupancy, consents, and other legislative or administrative authority from any local, state, or national government or private entity or organization have been or can be obtained or renewed for any use on which the value estimate contained in this report is based.
10. It is assumed that the use of the land and improvements is confined within the boundaries or property lines of the property described and that there is no encroachment or trespass unless noted in this report.
11. The date of value to which the findings are expressed in this report apply is set forth in the letter of transmittal. The appraisers assume no responsibility for economic or physical factors occurring at some later date which may affect the opinions herein stated.
12. Unless otherwise stated in this report, the existence of hazardous materials, which may or may not be present on the property, was not observed by the appraisers. The appraisers have no knowledge of the existence of such substances on or in the property. The appraisers, however, are not qualified to detect such substances. The presence of substances such as asbestos, urea-formaldehyde foam insulation, radon gas, lead or lead-based products, toxic waste contaminants, and other potentially hazardous materials may affect the value of the property. The value estimate is predicated on the

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assumption that there is no such material on or in the property that would cause a loss in value. No responsibility is assumed for such conditions or for any expertise or engineering knowledge required to discover them. The client is urged to retain an expert in this field, if desired.

13. The forecasts, projections, or operating estimates included in this report were utilized to assist in the evaluation process and are based on reasonable estimates of market conditions, anticipated supply and demand, and the state of the economy. Therefore, the projections are subject to changes in future conditions that cannot be accurately predicted by the appraisers, and which could affect the future income or value projections.
14. Fundamental to the appraisal analysis is the assumption that no change in zoning is either proposed or imminent, unless otherwise stipulated. Should a change in zoning status occur from the property's present classification, the appraisers reserve the right to alter or amend the value accordingly.
15. It is assumed that the property does not contain within its confined any unmarked burial grounds which would prevent or hamper the development process.
16. The Americans with Disabilities Act (ADA) became effective on January 26, 1992. We have not made a specific compliance survey and analysis of the property to determine if it is in conformance with the various detailed requirements of the ADA. It is possible that a compliance survey of the property, together with a detailed analysis of the requirements of the ADA, could reveal that the property is not in compliance with one or more of the requirements of the Act. If so, this fact could have a negative effect on the value of the property. Unless otherwise noted in this report, we have not been provided with a compliance survey of the property. Any information regarding compliance surveys or estimates of costs to conform to the requirements of the ADA are provided for information purposes. No responsibility is assumed for the accuracy or completeness of the compliance survey cited in this report, or for the eventual cost to comply with the requirements of the ADA.
17. Any value estimates provided in this report apply to the entire property, and any proration or division of the total into fractional interests will invalidate the value estimate, unless such proration or division of interests has been set forth in this report.
18. Any proposed improvements are assumed to have been completed unless otherwise stipulated; any construction is assumed to conform with the building plans referenced in this report.
19. Unless otherwise noted in the body of this report, this evaluation assumes that the subject does not fall within the areas where mandatory flood insurance is effective.
20. Unless otherwise noted in the body of this report, we have not completed nor are we contracted to have completed an investigation to identify and/or quantify the presence of non-tidal wetland conditions on the subject property.
21. This report should not be used as a basis to determine the structural adequacy/inadequacy of the property described herein, but for evaluation purposes only.
22. It is assumed that the subject structure meets the applicable building codes for its respective jurisdiction. We assume no responsibility/liability for the inclusion/exclusion of any structural

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component item which may have an impact on value. It is further assumed that the subject property will meet code requirements as they relate to proper soil compaction, grading, and drainage.

23. The appraisers are not engineers, and any references to physical property characteristics in terms of quality, condition, cost, suitability, soil conditions, flood risk, obsolescence, etc., are strictly related to their economic impact on the property. No liability is assumed for any engineering-related issues.

The evaluation services will be subject to the following limiting conditions:

1. The findings reported herein are only applicable to the properties studied in conjunction with the Purpose of the Evaluation and the Function of the Evaluation as herein set forth; the evaluation is not to be used for any other purposes or functions.
2. Any allocation of the total value estimated in this report between the land and the improvements applies only to the stated program of utilization. The separate values allocated to the land and buildings must not be used in conjunction with any other appraisal and are not valid if so used.
3. No opinion is expressed as to the value of subsurface oil, gas or mineral rights, if any, and we have assumed that the property is not subject to surface entry for the exploration or removal of such materials, unless otherwise noted in the evaluation.
4. This report has been prepared by CohnReznick under the terms and conditions outlined by the enclosed engagement letter. Therefore, the contents of this report and the use of this report are governed by the client confidentiality rules of the Appraisal Institute. Specifically, this report is not for use by a third party and CohnReznick is not responsible or liable, legally or otherwise, to other parties using this report unless agreed to in writing, in advance, by both CohnReznick and/or the client or third party.
5. Disclosure of the contents of this evaluation report is governed by the by-laws and Regulations of the Appraisal Institute has been prepared to conform with the reporting standards of any concerned government agencies.
6. The forecasts, projections, and/or operating estimates contained herein are based on current market conditions, anticipated short-term supply and demand factors, and a continued stable economy. These forecasts are, therefore, subject to changes with future conditions. This evaluation is based on the condition of local and national economies, purchasing power of money, and financing rates prevailing at the effective date of value.
7. This evaluation shall be considered only in its entirety, and no part of this evaluation shall be utilized separately or out of context. Any separation of the signature pages from the balance of the evaluation report invalidates the conclusions established herein.
8. **Possession of this report, or a copy thereof, does not carry with it the right of publication, nor may it be used for any purposes by anyone other than the client without the prior written consent of the appraisers, and in any event, only with property qualification.**

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9. The appraisers, by reason of this study, are not required to give further consultation or testimony or to be in attendance in court with reference to the property in question unless arrangements have been previously made.
10. Neither all nor any part of the contents of this report shall be conveyed to any person or entity, other than the appraiser's client, through advertising, solicitation materials, public relations, news, sales or other media, without the written consent and approval of the authors, particularly as to evaluation conclusions, the identity of the appraisers or CohnReznick, LLC, or any reference to the Appraisal Institute, or the MAI designation. Further, the appraisers and CohnReznick, LLC assume no obligation, liability, or accountability to any third party. If this report is placed in the hands of anyone but the client, client shall make such party aware of all the assumptions and limiting conditions of the assignment.
11. This evaluation is not intended to be used, and may not be used, on behalf of or in connection with a real estate syndicate or syndicates. A real estate syndicate means a general or limited partnership, joint venture, unincorporated association or similar organization formed for the purpose of, and engaged in, an investment or gain from an interest in real property, including, but not limited to a sale or exchange, trade or development of such real property, on behalf of others, or which is required to be registered with the United States Securities and Exchange commissions or any state regulatory agency which regulates investments made as a public offering. It is agreed that any user of this evaluation who uses it contrary to the prohibitions in this section indemnifies the appraisers and the appraisers' firm and holds them harmless from all claims, including attorney fees, arising from said use.

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**ADDENDUM A:
APPRAISER QUALIFICATIONS**

Work in Progress 4.1.22

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Patricia L. McGarr, MAI, CRE, FRICS, CRA
Principal and CohnReznick Group –
Valuation Advisory National Director

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Chicago, IL 60606
312-508-5802
patricia.mcgarr@cohnreznick.com

Patricia L. McGarr, MAI, CRE, FRICS, CRA, is a principal and National Director of CohnReznick Advisory Group's Valuation Advisory Services practice. Pat's experience includes market value appraisals of varied property types for acquisition, condemnation, mortgage, estate, ad valorem tax, litigation, zoning, and other purposes. Pat has been involved in the real estate business since 1980. From June 1980 to January 1984, she was involved with the sales and brokerage of residential and commercial properties. Her responsibilities during this time included the formation, management, and training of sales staff in addition to her sales, marketing, and analytical functions. Of special note was her development of a commercial division for a major Chicago-area brokerage firm.

Since January 1984, Pat has been exclusively involved in the valuation of real estate. Her experience includes the valuation of a wide variety of property types including residential (SF/MF/LIHTC), commercial, industrial, and special purpose properties including such diverse subjects as quarries, marinas, riverboat gaming sites, shopping centers, manufacturing plants, and office buildings. She is also experienced in the valuation of leasehold and leased fee interests. Pat has performed appraisal assignments throughout the country, including the Chicago Metropolitan area as well as New York, New Jersey, California, Nevada, Florida, Utah, Texas, Wisconsin, Indiana, Michigan, and Ohio. Pat has gained substantial experience in the study and analysis of the establishment and expansion of sanitary landfills in various metropolitan areas including the preparation of real estate impact studies to address criteria required by Senate Bill 172. She has also developed an accepted format for allocating value of a landfill operation between real property, landfill improvements, and franchise (permits) value.

Over the past several years, Pat has developed a valuation group that specializes in the establishment of new utility corridors for electric power transmission and pipelines. This includes determining acquisition budgets, easement acquisitions, corridor valuations, and litigation support. Pat has considerable experience in performing valuation impact studies on potential detrimental conditions and has studied properties adjoining solar farms, wind farms, landfills, waste transfer stations, stone quarries, cellular towers, schools, electrical power transmission lines, "Big Box" retail facilities, levies, properties with restrictive covenants, landmark districts, environmental contamination, airports, material defects in construction, stigma, and loss of view amenity for residential high rises. Most recently, the firm has studied property values adjacent to Solar Farms to address criteria required for special use permits across the Midwest.

Pat has qualified as an expert valuation witness in numerous local, state, and federal courts.

Pat has participated in specialized real estate appraisal education and has completed more than 50 courses and seminars offered by the Appraisal Institute totaling more than 600 classroom hours, including real estate transaction courses as a prerequisite to obtaining a State of Illinois Real Estate Salesman License.

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Pat has earned the professional designations of Counselors of Real Estate (CRE), Member of the Appraisal Institute (MAI), Fellow of Royal Institution of Chartered Surveyors (FRICS) and Certified Review Appraiser (CRA). She has also been a certified general real estate appraiser in 21 states (see below).

Education

- North Park University: Bachelor of Science, General Studies

Professional Affiliations

- National Association of Realtors
- CREW Commercial Real Estate Executive Women
- IRWA International Right of Way Association

Licenses and Accreditations

- Member of the Appraisal Institute (MAI)
- Counselors of Real Estate, designated CRE
- Fellow of Royal Institution of Chartered Surveyors (FRICS)
- Certified Review Appraiser (CRA)
- Alabama State Certified General Real Estate Appraiser
- California State Certified General Real Estate Appraiser
- Connecticut State Certified General Real Estate Appraiser
- Colorado State Certified General Real Estate Appraiser
- District of Columbia Certified General Real Estate Appraiser
- Illinois State Certified General Real Estate Appraiser
- Indiana State Certified General Real Estate Appraiser
- Louisiana State Certified General Real Estate Appraiser
- Maryland State Certified General Real Estate Appraiser
- Massachusetts Certified General Real Estate Appraiser
- Michigan State Certified General Real Estate Appraiser
- North Carolina State Certified General Real Estate Appraiser
- New Jersey State Certified General Real Estate Appraiser
- Nevada State Certified General Real Estate Appraiser
- New York State Certified General Real Estate Appraiser
- Pennsylvania State Certified General Real Estate Appraiser
- South Carolina State Certified General Real Estate Appraiser
- Tennessee State Certified General Real Estate Appraiser
- Texas State Certified General Real Estate Appraiser
- Virginia State Certified General Real Estate Appraiser
- Wisconsin State Certified General Real Estate Appraiser

Appointments

- Appointed by two Governors of Illinois to the State Real Estate Appraisal Board (2017 & 2021)
- Chairwoman of the State of Illinois Real Estate Appraisal Board (2021)

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Andrew R. Lines, MAI

Principal, CohnReznick Advisory

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Andrew R. Lines is a principal in CohnReznick's Valuation Advisory Services group where he specializes in Real Estate, Affordable Housing, Cannabis and Renewable Energy. Andrew leads a group of appraisers across the country performing valuations on a wide variety of real estate property types including residential, commercial, industrial, hospitality and special purpose properties: landfills, waste transfer stations, marinas, hospitals, universities, self-storage facilities, racetracks, CCRCs, and railroad corridors. Affordable Housing experience includes Market Studies, Rent Compatibility Studies and Feasibility Analysis for LIHTC and mixed-income developments. Cannabis assignments have covered cultivation, processing, and dispensaries in over 10 states, including due diligence for mergers and acquisitions of multi-state operational and early stage companies. Renewable Energy assignments have included preparation of impact studies and testimony at local zoning hearings in eight states.

He is experienced in the valuation of leasehold, leased fee, and partial interests and performs appraisals for all purposes including financial reporting, litigation, and gift/estate planning. Andrew is a State Certified General Real Estate Appraiser in the states of Illinois, Indiana, Maryland, Georgia, Florida, Ohio, New York, New Jersey, Arizona, Kentucky, and the District of Columbia.

Before joining CohnReznick, Andrew was with Integra Realty Resources, starting as analyst support in 2002 and leaving the firm as a director in late 2011 (including two years with the Phoenix chapter). His real estate experience also includes one year as administrator for the residential multifamily REIT Equity Residential Properties Trust (ERP), in the transactions department, where he performed due diligence associated with the sale and acquisition of REIT properties and manufactured home communities.

Education

- Syracuse University: Bachelor of Fine Arts
- MAI Designation (Member of the Appraisal Institute)

Professional Affiliations

- Chicago Chapter of the Appraisal Institute
 - Alternate Regional Representative (2016 - 2018)
 - MAI Candidate Advisor (2014 - Present)
- International Real Estate Management (IREM)
- National Council of Real Estate Investment Fiduciaries (NCREIF)

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Community Involvement

- Syracuse University Regional Council – Active Member
- Syracuse University Alumni Association of Chicago, Past Board member
- Chicago Friends School – Treasurer & Board Member

Work in Progress 4.1.22

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Sonia K. Singh, MAI

Director – Valuation Advisory Services

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sonia.singh@cohnreznick.com

Sonia K. Singh, MAI is a director in CohnReznick Advisory Group's Valuation Advisory practice and based in the Bethesda office. For the past ten years, she has engaged in real estate valuation and other real estate consulting services and valued over \$5 billion in real property.

Sonia is adept at valuing a variety of commercial real estate across the United States, including the following complex property types: athletic clubs; full-service hotels and beach resorts; marinas; historic redevelopment projects; recycling facilities; single-family rental home portfolios; master planned communities; and for-sale residential units or subdivisions. She has also performed real estate appraisals involving leasehold interests, air rights ownership, and right-of-way fee simple and easement acquisitions for utility corridors. She has performed these and other appraisals others for purposes including financial reporting, estate planning, gift and estate tax, bond and conventional financing, litigation (eminent domain), and asset management, with the ability to handle appraisals of large portfolios in expedited timeframes. With significant experience in the appraisal of senior living facilities including continuing care retirement communities, skilled nursing facilities, assisted living and memory care facilities, as well as age-restricted housing, Ms. Singh has elevated the firm's modelling of complex healthcare property ownership structures to help illuminate debt/income and lease coverage ratios for federal courts, resulting in millions of dollars in recovered credits for clients.

Additionally, Sonia is experienced in purchase price allocations (GAAP, IFRS, and IRC 1060) for financial reporting, including the early adoption of ASU 2017-01. She has also provided valuation services related to highest and best use analysis, market feasibility studies, and useful life analysis. She has prepared impact studies measuring the possible detrimental impact of economic and environmental influences on property values, including those related to high-voltage transmission lines, distribution warehouses, wind farms, and solar farms. She has provided expert witness testimony at local county zoning hearings for proposed solar energy uses and their potential detrimental impacts on adjacent property values.

Education

- University of Illinois: Bachelor of Science, Actuarial Science

Professional Affiliation, Licenses, and Exams

- MAI - Appraisal Institute, Designated Member
- Urban Land Institute, Associate Member
- Certified General Real Estate Appraiser with Active Licenses in DC and the States of MD, MO, and VA
- Successful completion of the following actuarial exams: Probability (1/P), Financial Mathematics (2/FM), and Models for Financial Economics (3/MFE)

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Awards and Recognitions

- 2019 National Association of Certified Valuators and Analysts (NACVA) and the Consultants Training Institute (CTI) 40 Under Forty Honoree

Work in Progress 4.1.22

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Michael F. Antypas

Manager, Valuation Advisory Services

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Michael Antypas is a manager in CohnReznick's Valuation Advisory Services practice group and is based in the Bethesda office. He has assisted other associates and appraisers in the valuation of a variety of retail shopping centers, hotels, market rate and restricted rental apartment properties, industrial properties, Class A office complexes with GSA tenants, mixed-use properties, developable land, master planned communities, subdivisions, and single-family rental home portfolios owned by REITs. He has also completed solar farm impact studies, appraisals for eminent domain disputes, above/below market lease analyses, as well as purchase price allocations on various senior living facilities, medical office buildings, industrial buildings, retail centers, and cannabis facilities. In addition, Michael is certified in working with Argus Enterprise valuation software. He is a practicing affiliate in the Appraisal Institute and is working towards becoming a Certified General Real Estate Appraiser.

He graduated from the Villanova School of Business in May of 2016. Some of his other experience working in Real Estate originated through interning with commercial brokers. Throughout his senior year in college, Michael interned with Newmark Grubb Knight Frank as a Capital Markets intern. There he helped create and revise many marketing packages for the firm's senior managing directors. He also assisted in developing underwriting models and projections for offering memorandums. He also worked with a boutique restaurant broker in Washington D.C, Papadopoulos Properties where he compiled market research for his client's use and surveyed prospective restaurants to gauge their interest in expanding to the Washington D.C. market.

Education

- Villanova University Bachelor of Business Administration, Finance and Real Estate, Minor in Business Analytics

Certifications

- Argus Enterprise Certified

Professional Affiliations

- Appraisal Institute, Practicing Affiliate

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TJ Schemmel

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www.cohnreznick.com

TJ Schemmel is a manager in CohnReznick Advisory Group's Valuation Advisory Services practice and is based in the Chicago office. For the past two years, he has completed real estate valuation and other real estate consulting services valued at over \$2 billion in real property.

TJ has acquired competency in valuing a variety of commercial real estate across the United States, including the following complex property types: full-service hotels, single family rental home portfolios, cannabis cultivation facilities, hospitals, utility corridors, and for-sale residential units or subdivisions. He has also performed real estate appraisals involving leasehold interests, air rights ownership, and right-of-way fee simple and easement acquisitions for utility corridors. He has performed these and other appraisals for purposes including financial reporting, estate planning, bond and conventional financing, litigation (eminent domain and LaSalle factors), and asset management, with the ability to handle complex appraisals in expedited timeframes. TJ has also participated in assignments to determine the highest and best use of subject properties, which included determining the value of the properties under potential zoning designations and determining the likelihood of potential rezoning.

Education

- University of Cincinnati: Bachelor of Business Administration

Professional Affiliations

- Thomas Schemmel, Practicing Affiliate, Appraisal Institute
- Routes to Success, Incorporated (HOBY Ohio West) - Board President
- Chicago Tutoring - Associate Board Member

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Amanda G. Edwards

Valuation Research Specialist, Valuation Advisory Services

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Chicago, Illinois 60606
312-508-5453
amanda.edwards@cohnreznick.com

Amanda Edwards is a valuation research specialist in CohnReznick's Valuation Advisory Services practice group and is based in Chicago. Amanda has assisted other appraisers in the valuation of a variety of industrial properties, medical offices, hotels, multifamily properties, condominium developments, retail and mixed-use properties, developable and open space land, and single family subdivisions. She has also assisted with appraisals and continuing consulting for eminent domain litigation. Additionally, Amanda has provided audit support for Assurance clients of the firm.

Before joining CohnReznick, Amanda worked at the Inland Group of companies valuing properties and underwriting, as well as assisting in the closing of commercial mortgage loans, nationwide. Property types included industrial, office, multi-family, retail, and hotel, with an emphasis on value-add properties and new construction projects. Amanda has also worked as a commercial lender for builder-developer housing at Fifth Third Bank, specializing in the Chicago metro area. She has also worked valuing senior housing properties and associated business models for acquisition purposes at a senior housing developer/operator.

Amanda has spent considerable time in the consulting environment, developing and conducting in-depth interviews for primary research in a variety of industries such as technology, financial institutions, and industrial manufacturing for private equity clients.

Education

- Bryn Mawr College, Bachelor of Arts

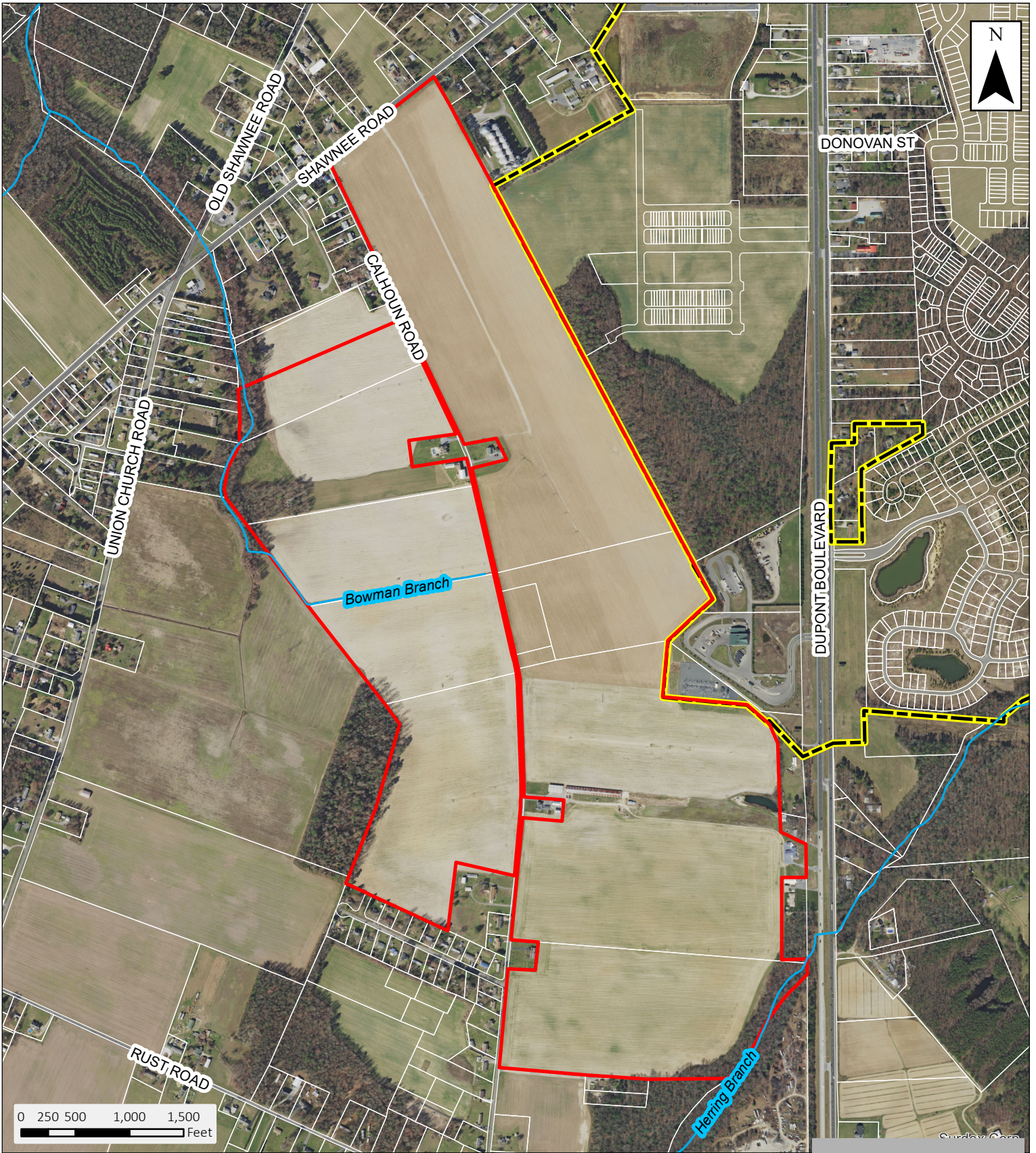
Professional Affiliations

- Appraisal Institute - Practicing Affiliate
- Chicago Real Estate Council - Member

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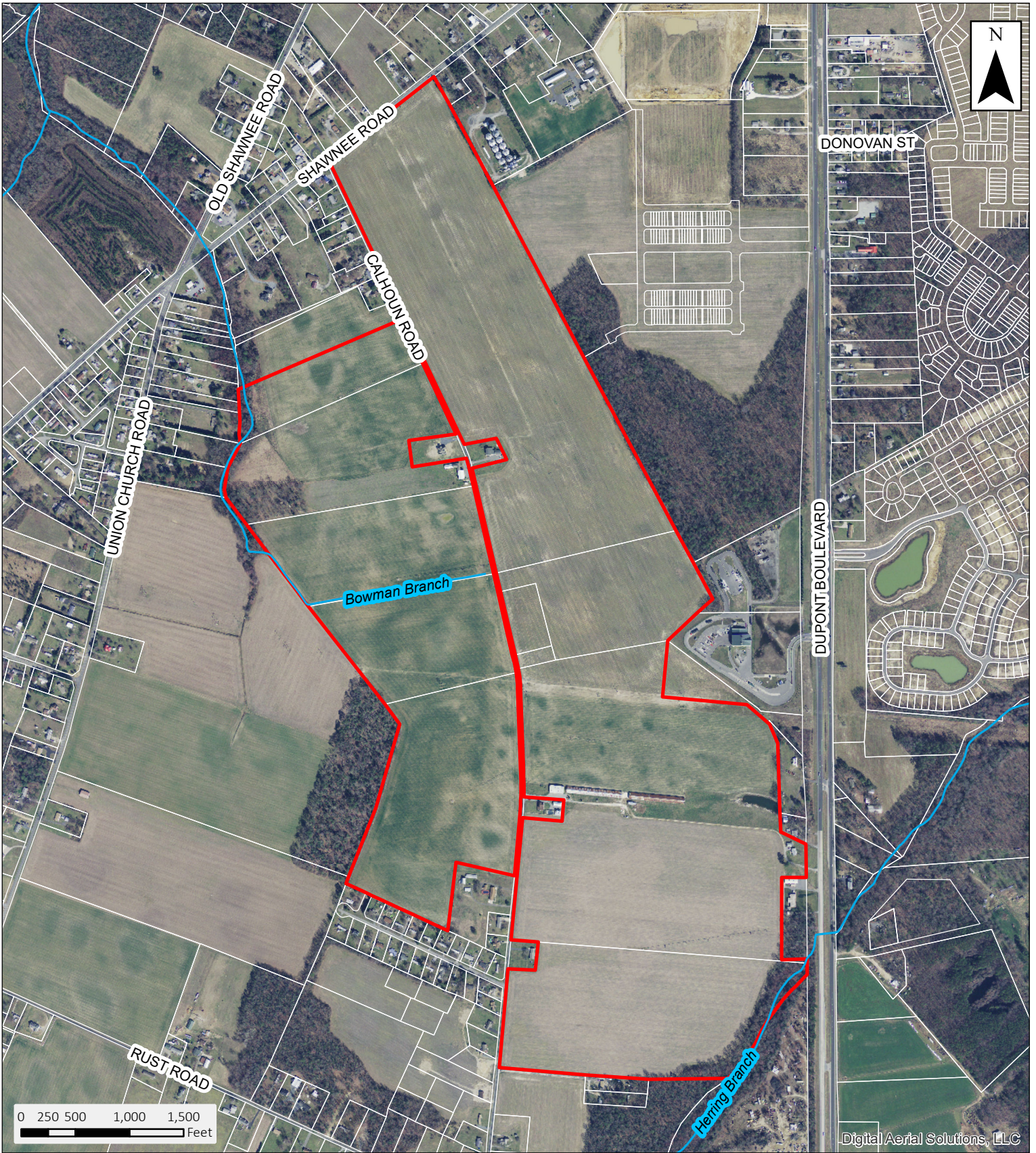
TAB 6

MAPS

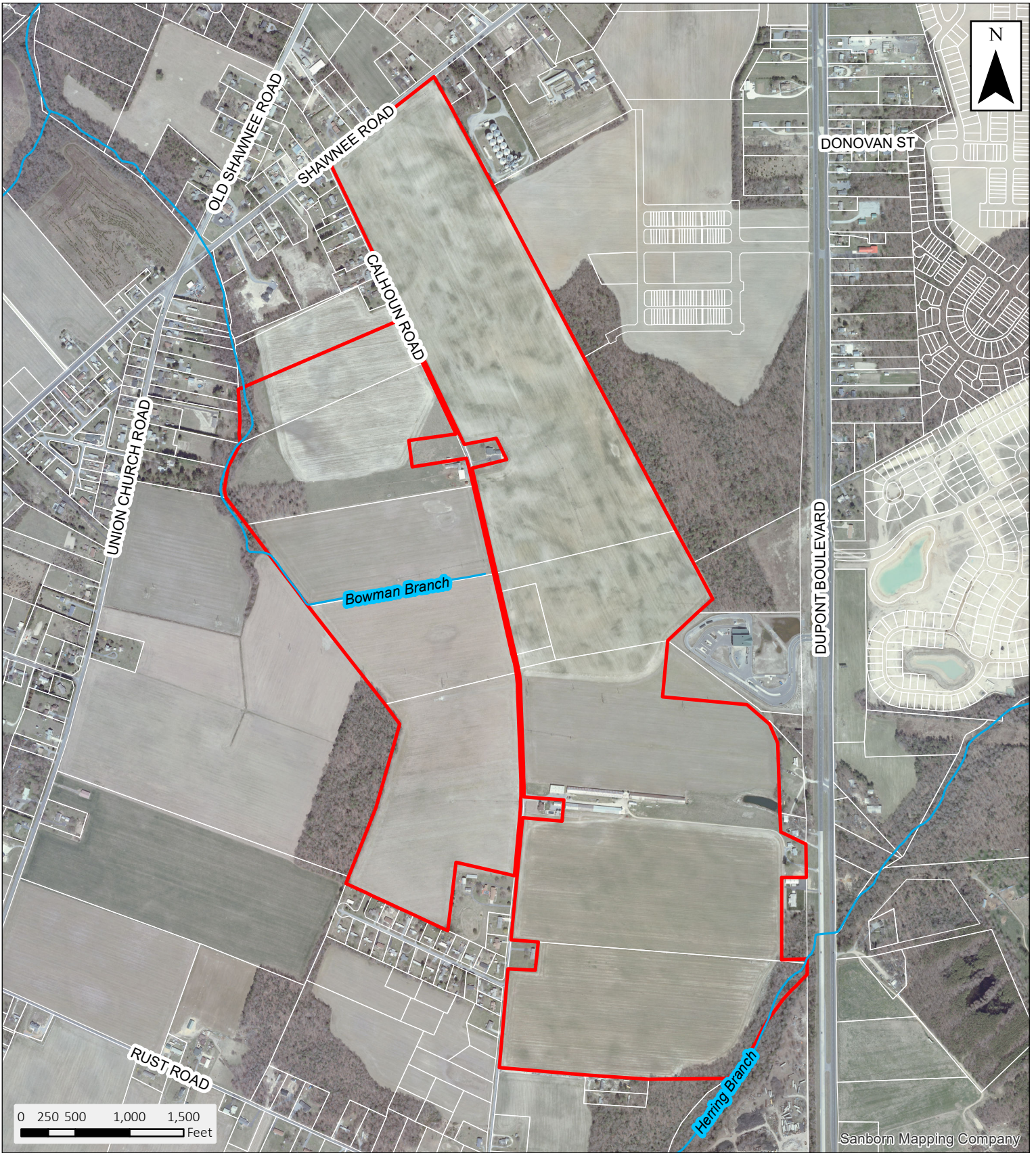


0 250 500 1,000 1,500
Feet

1	2017 Orthophoto		<ul style="list-style-type: none"> — Streams Subject Parcels City Of Milford Other Tax Parcels
	Freeman Solar Farm		
	BRKRE21001		



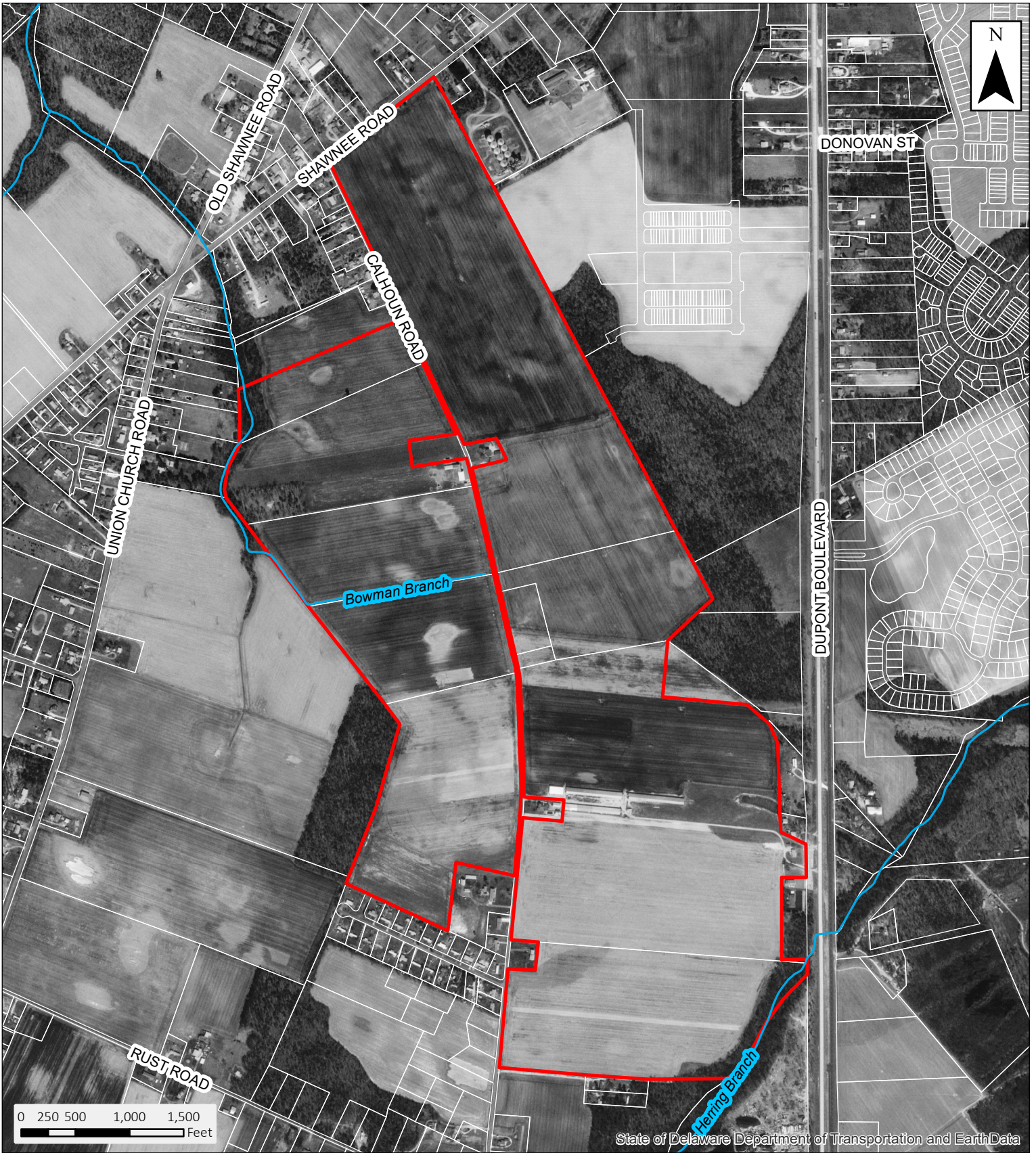
2	2012 Orthophoto		
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	BRKRE21001		



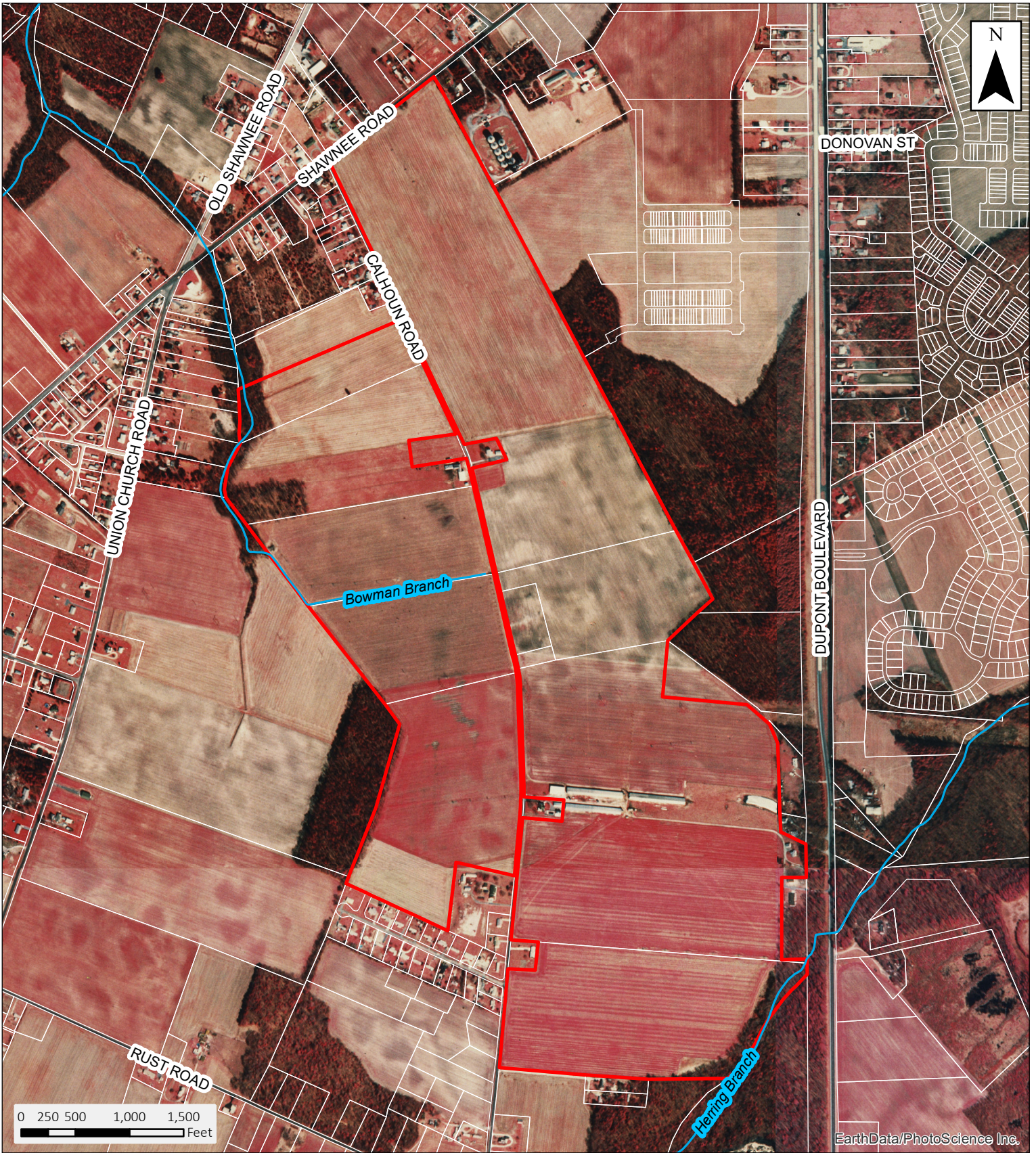
3	2007 Orthophoto		<ul style="list-style-type: none"> — Streams Subject Parcels Other Tax Parcels
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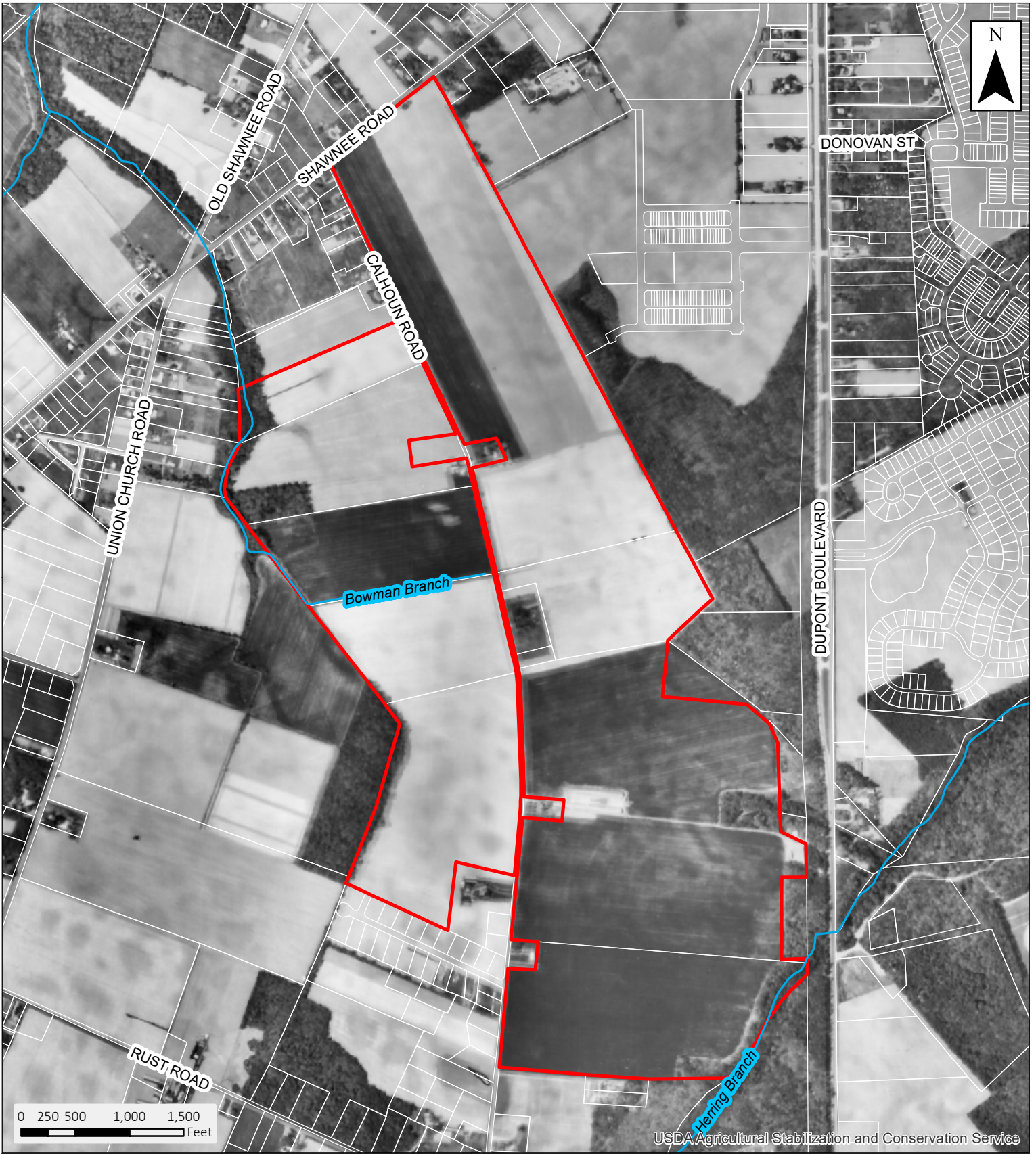
4	2002 Orthophoto		
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	BRKRE21001		


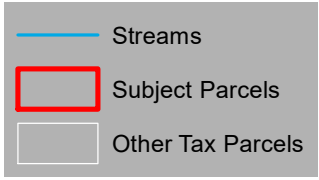


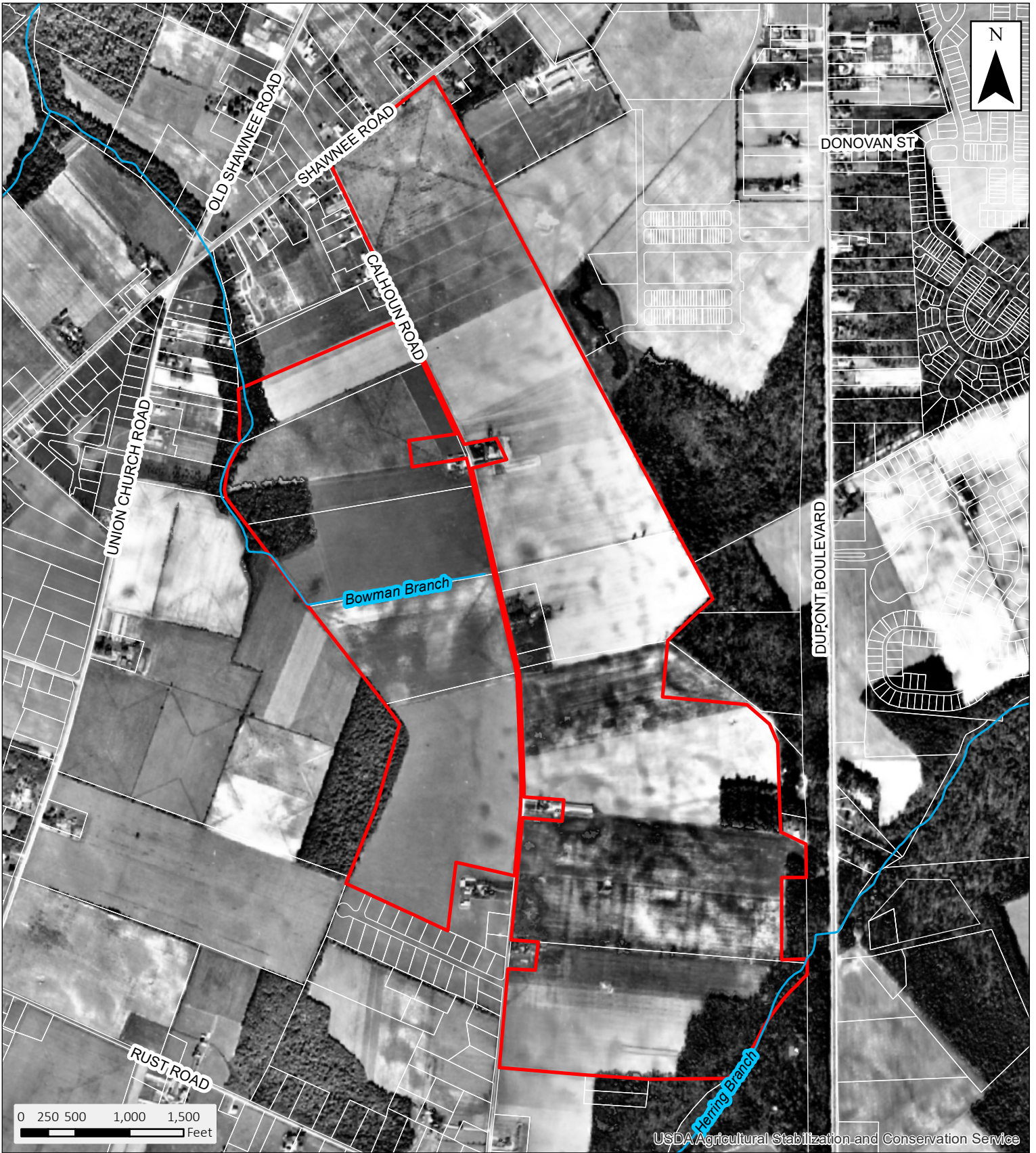
5	1997 Orthophoto		<ul style="list-style-type: none"> — Streams Subject Parcels Other Tax Parcels
	Freeman Solar Farm		
	BRKRE21001		



6	1992 Orthophoto		<ul style="list-style-type: none"> Streams Subject Parcels Other Tax Parcels
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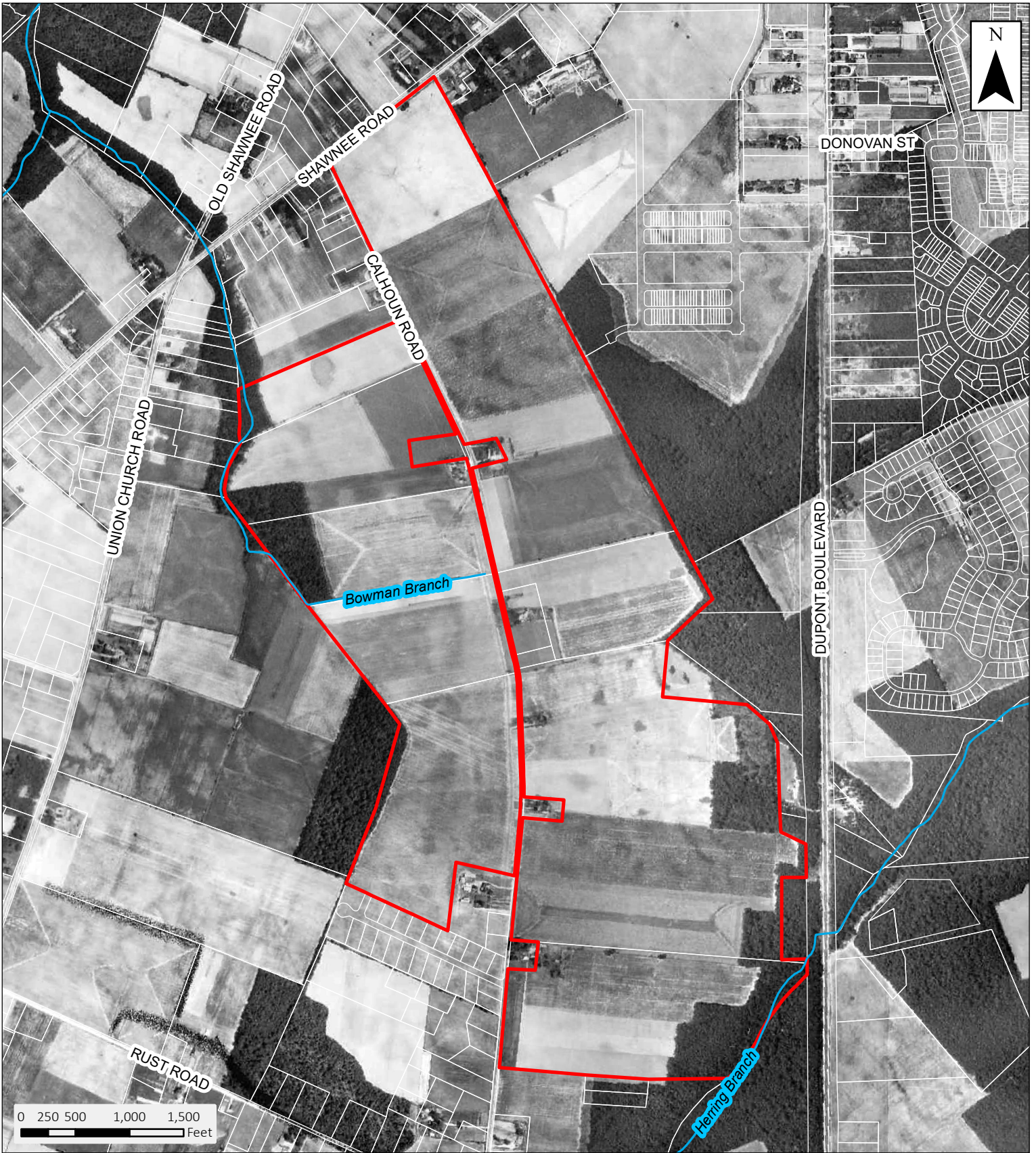


7	1968 Orthophoto		
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	BRKRE21001		

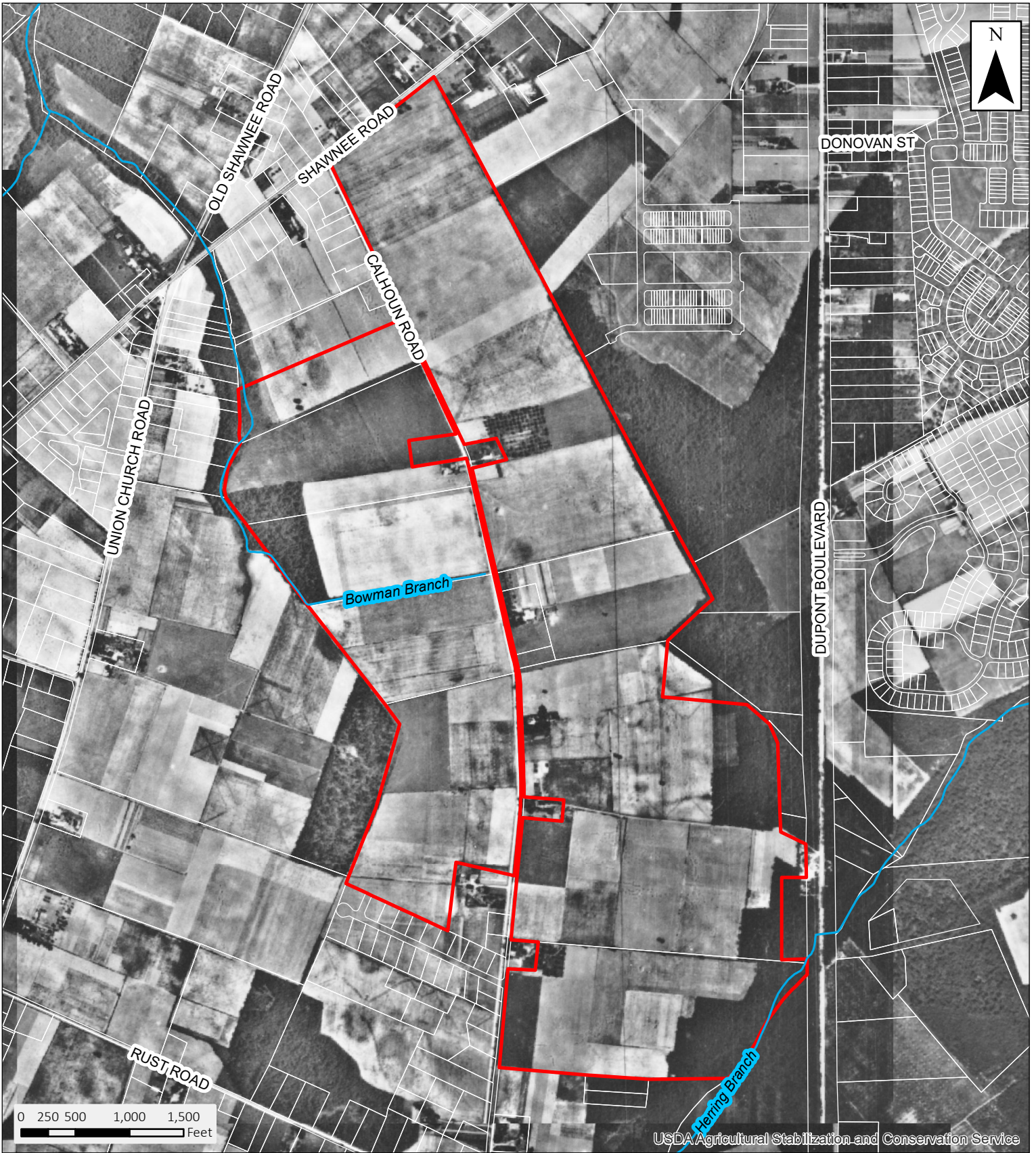


USDA Agricultural Stabilization and Conservation Service

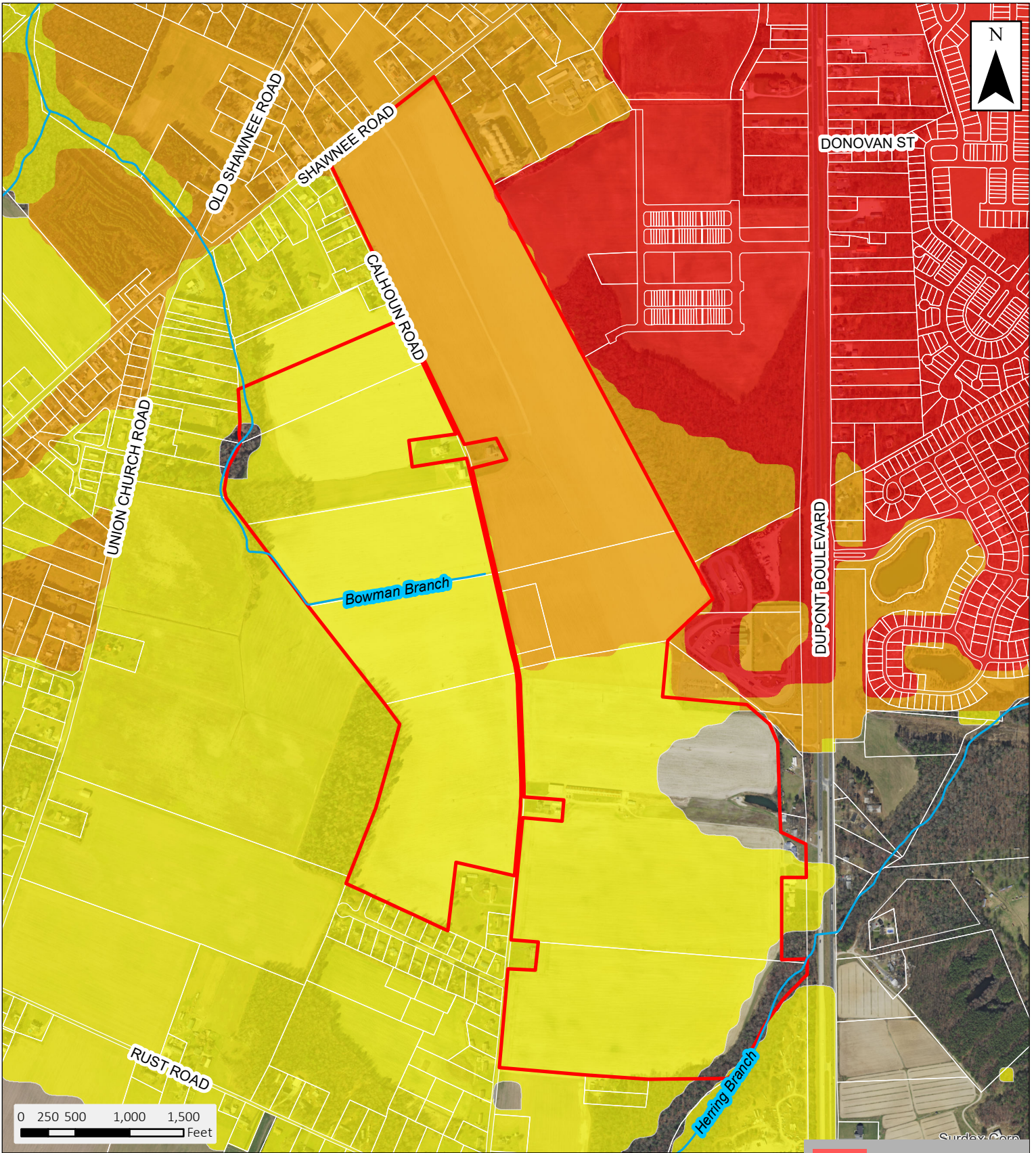
8	1961 Orthophoto		<ul style="list-style-type: none"> — Streams Subject Parcels Other Tax Parcels
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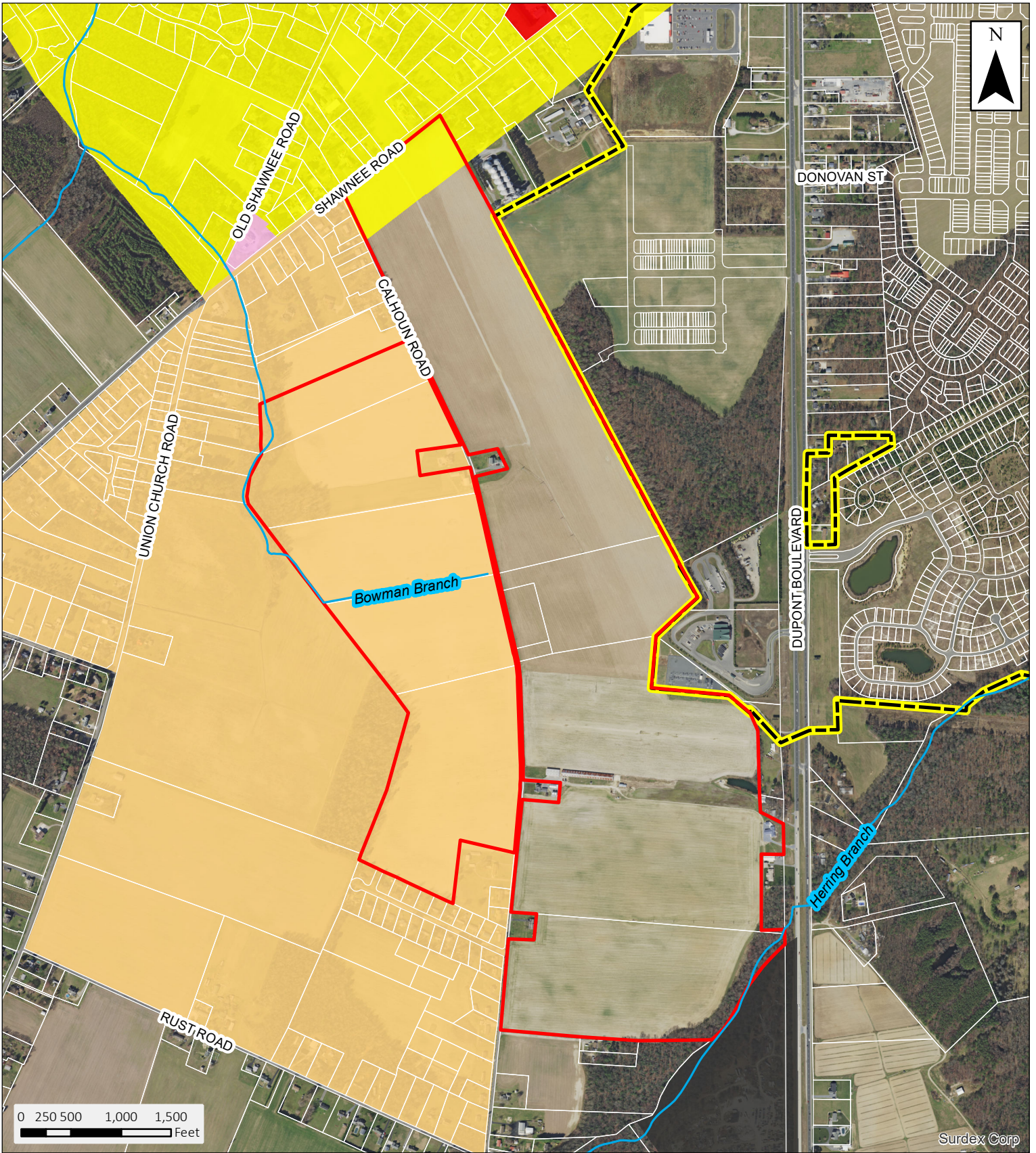
9	1954 Orthophoto		<ul style="list-style-type: none"> — Streams Subject Parcels Other Tax Parcels
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10	1937 Orthophoto		<ul style="list-style-type: none"> — Streams Subject Parcels Other Tax Parcels
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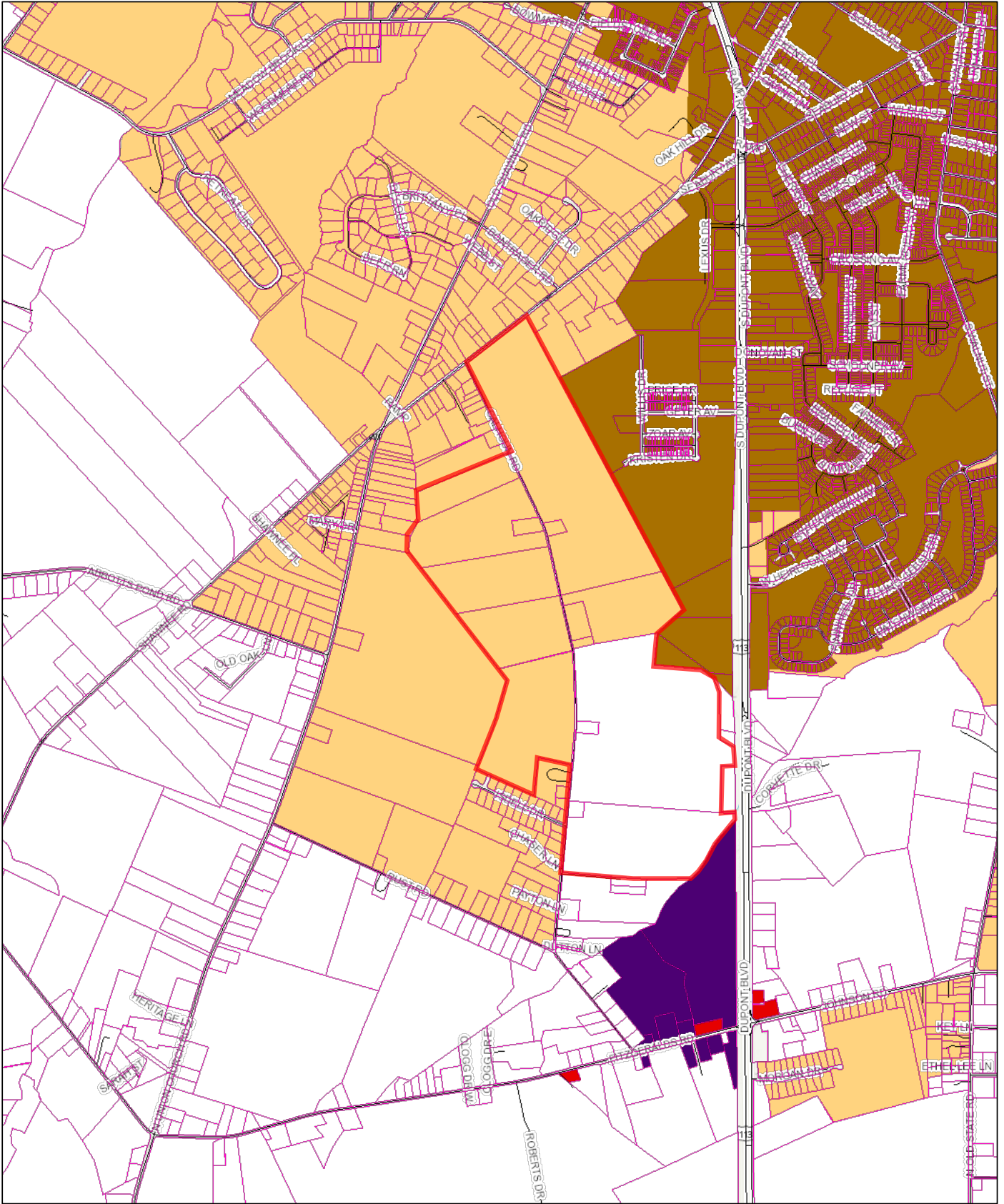


11	2020 Delaware State Strategies & Investment Levels		<ul style="list-style-type: none"> Level 1 Level 2 Level 3 Level 4 (Unshaded)
	Freeman Solar Farm		
	BRKRE21001		



12	County Zoning		 AR-1 (Unshaded)	 HI-1
	Freeman Solar Farm		 GC	 MR
	BRKRE21001		 GR	 B-1

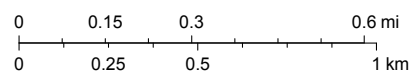
Sussex County



April 28, 2022

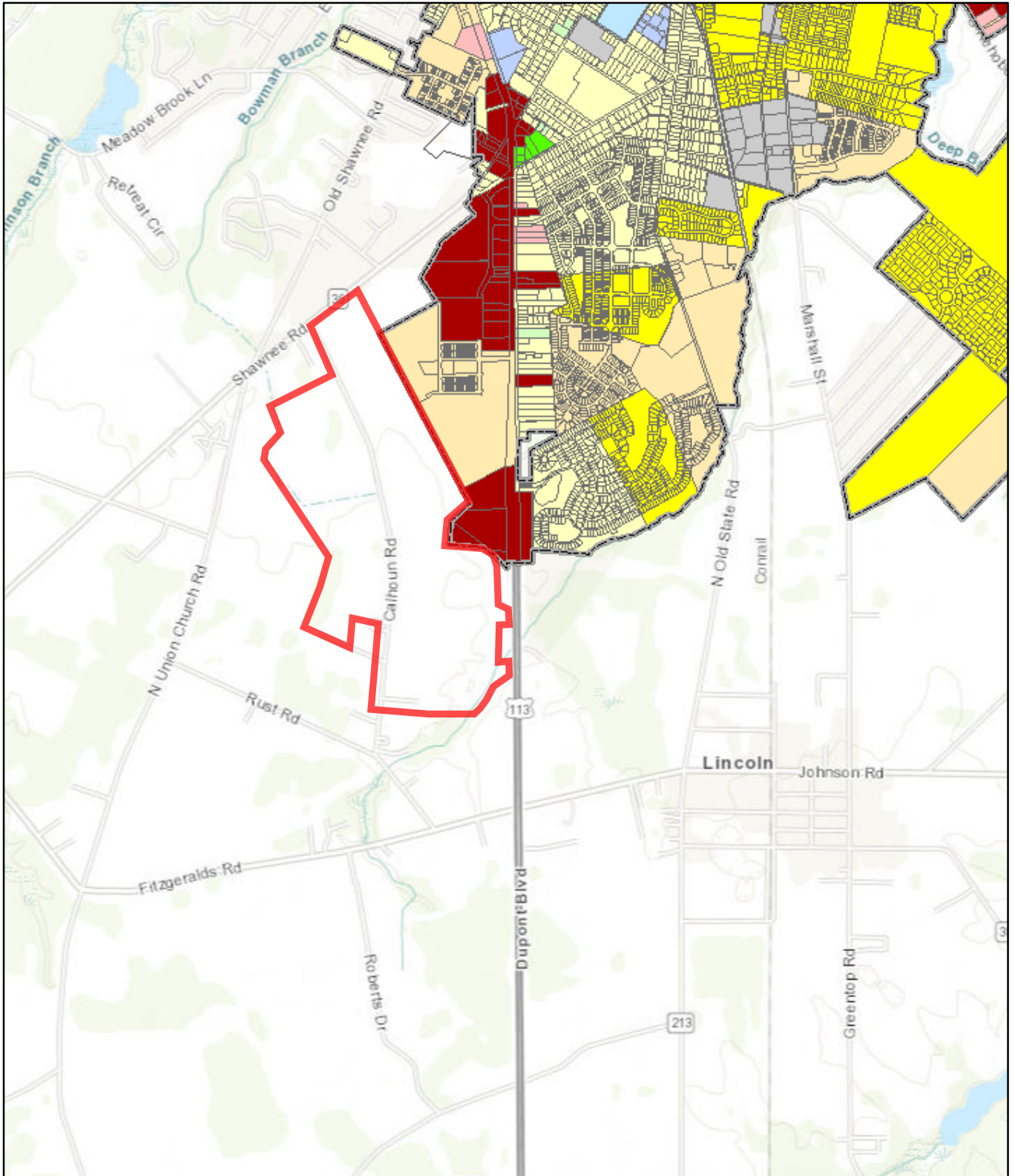
- | | | |
|-----------------------------|---------------------------|----------------|
| Tax Parcels | Coastal Area | Industrial |
| Streets | Commercial | Municipalities |
| County Boundaries | Developing Area | Town Center |
| 2019 Future Land Use | Existing Development Area | |
| Low Density | | |

1:18,056



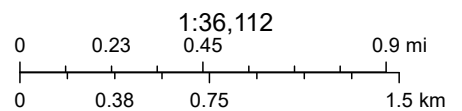
County of Sussex, DE, Delaware FirstMap, State of New Jersey, VITA, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, METI/ NASA, EPA, USDA, Sussex County Government, Esri Community Maps Contributors, County of Sussex, DE, Delaware FirstMap, VGIN, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc.

ArcGIS Web Map

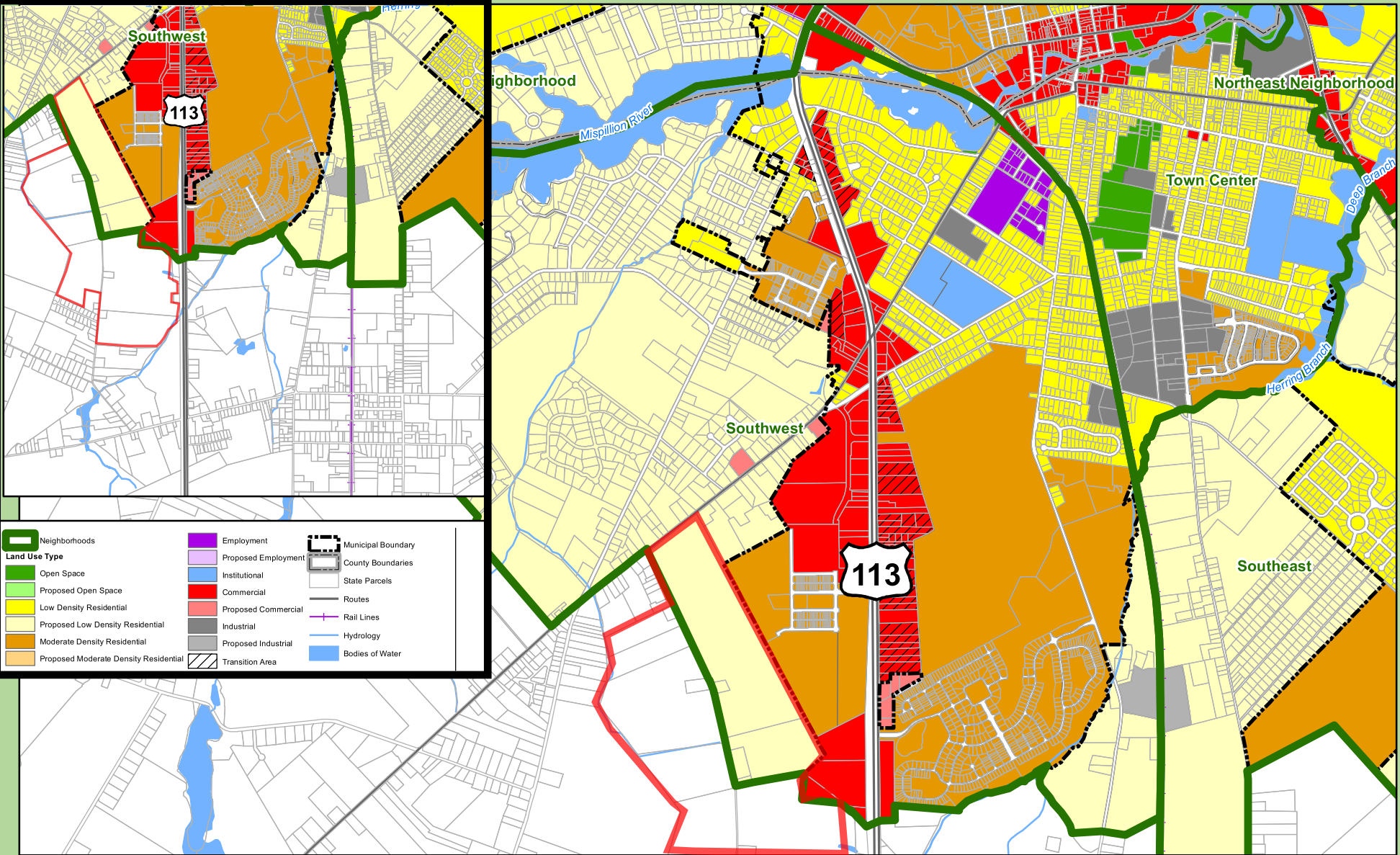


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Zoning District	I-1	R-1
BP	I-2	R-2
C-1	IM	R-3
C-2	IS	R-8
C-2A	OB-1	Tax Parcels
C-3	OC-1	DDD Boundary
H-1		Municipal Boundary



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



Neighborhoods	Employment	Municipal Boundary
Land Use Type	Proposed Employment	County Boundaries
Open Space	Institutional	State Parcels
Proposed Open Space	Commercial	Routes
Low Density Residential	Proposed Commercial	Rail Lines
Proposed Low Density Residential	Industrial	Hydrology
Moderate Density Residential	Proposed Industrial	Bodies of Water
Proposed Moderate Density Residential	Transition Area	

Neighborhoods	Employment	Municipal Boundary
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Low Density Residential	Proposed Commercial	Rail Lines
Proposed Low Density Residential	Industrial	Hydrology
Moderate Density Residential	Proposed Industrial	Bodies of Water
Proposed Moderate Density Residential	Transition Area	

City of Milford, Delaware

Future Land Use

Southwest

Adopted Jan. 22, 2018, Certified May 2018

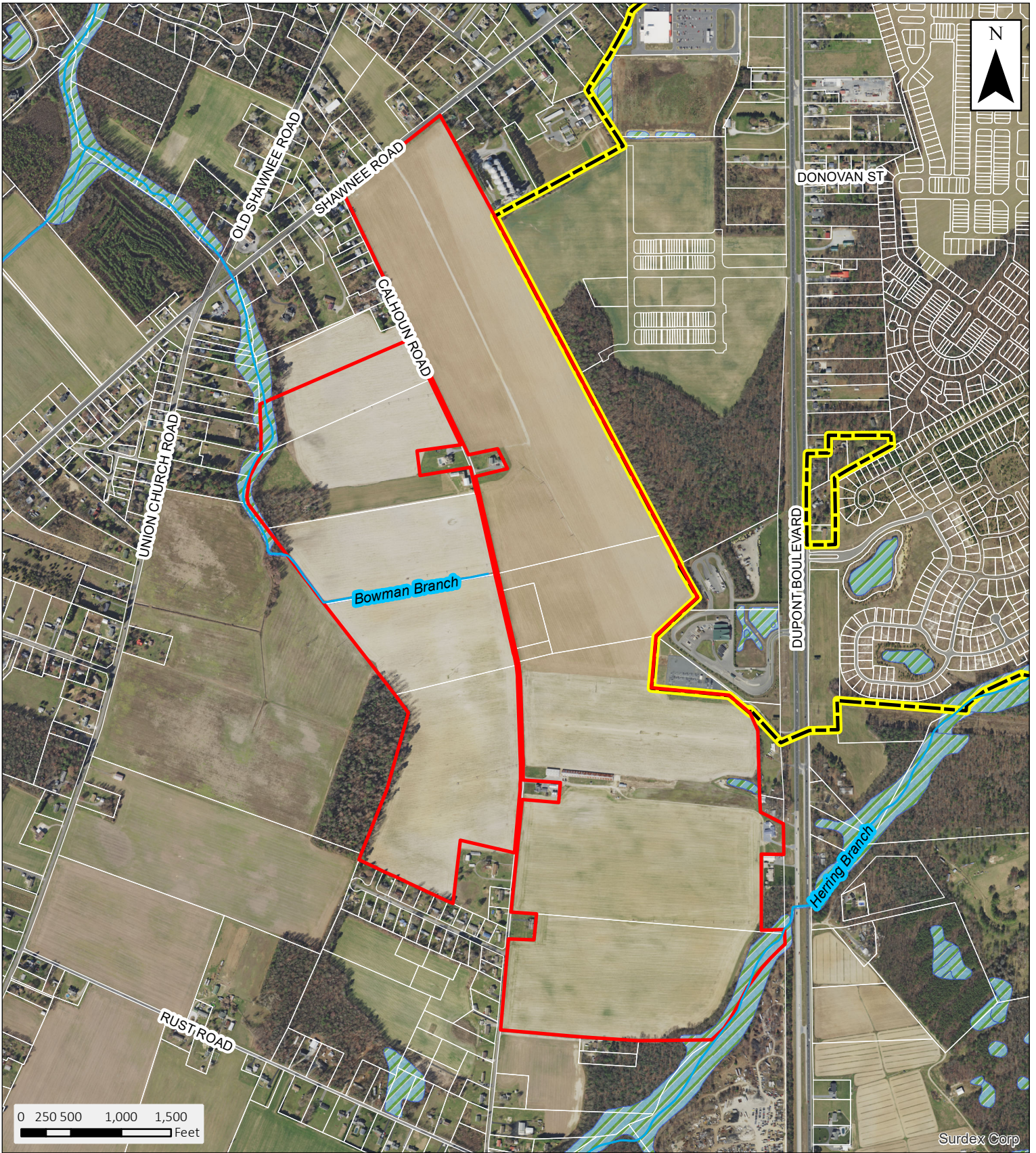


Sources:
 Municipal Boundaries - Delaware Office of State Planning Coordination, FirstMap 10/17.
 DRAFT Future Landuse - City of Milford, Delaware 01/18.
 Road and Rail Network - Delaware Department of Transportation, FirstMap 01/18.
 Hydrology - USGS and EPA, FirstMap 01/18.
 Note: This map is provided by the University of Delaware, Institute for Public Administration (IPA) solely for display and reference purposes and is subject to change without notice. No claims, either real or assumed, as to the absolute accuracy or precision of any data contained herein are made by IPA, nor will IPA be held responsible for any use of this document for purposes other than which it was intended.

THE CITY OF
Milford
 DELAWARE

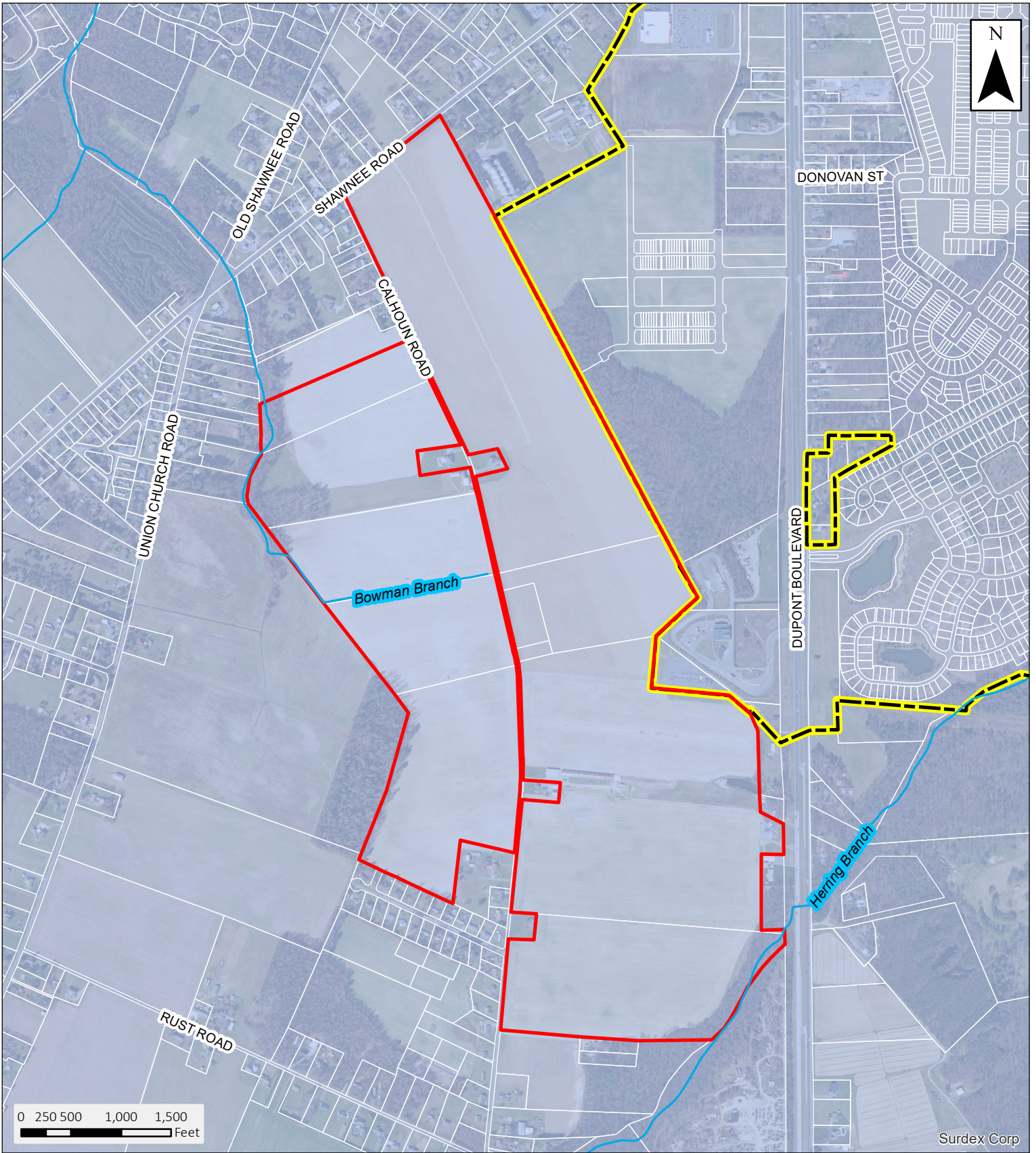
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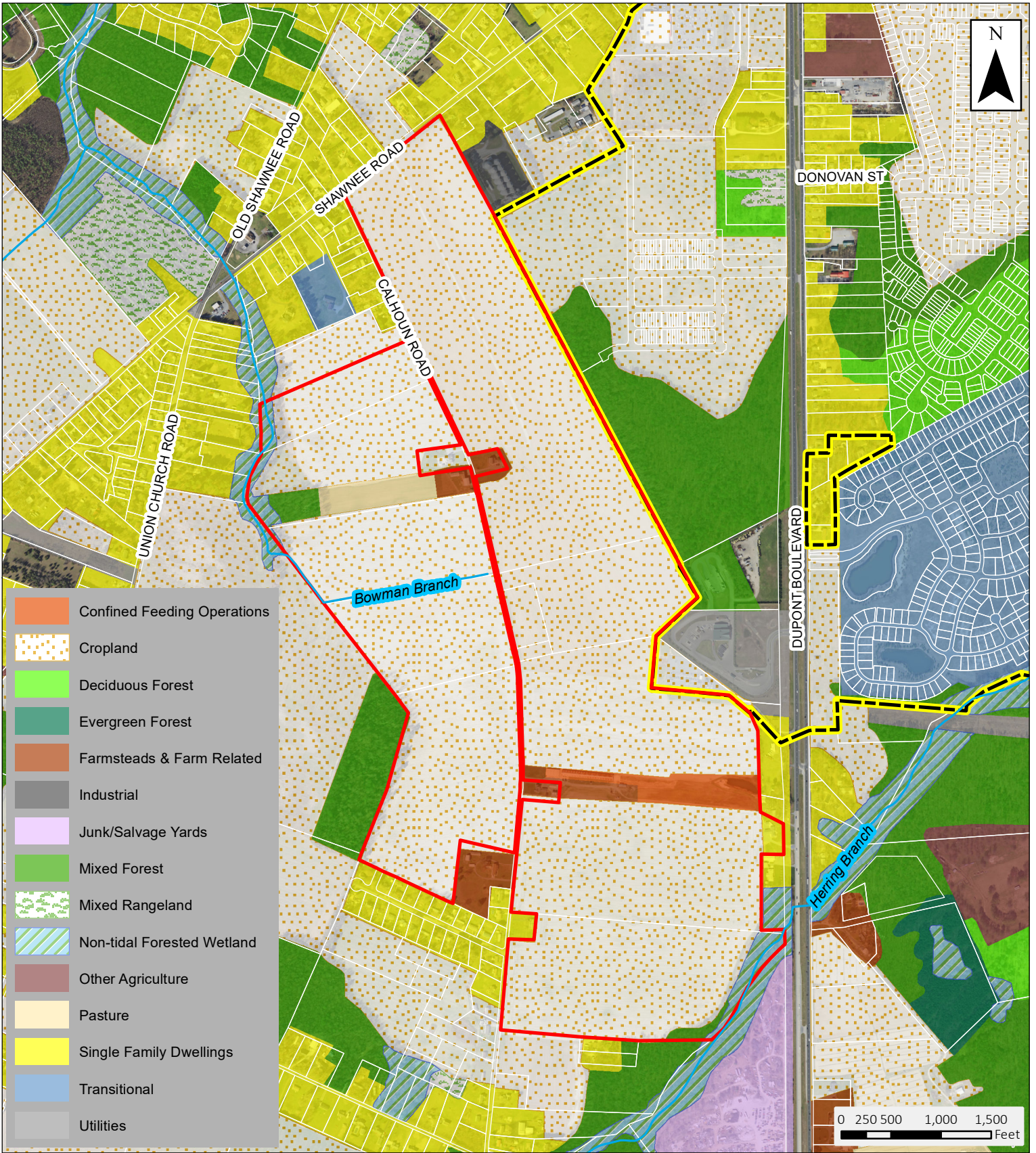
Surdex Corp


13	State Wetlands Mapping		 DNREC Wetlands
	Freeman Solar Farm		
	BRKRE21001		

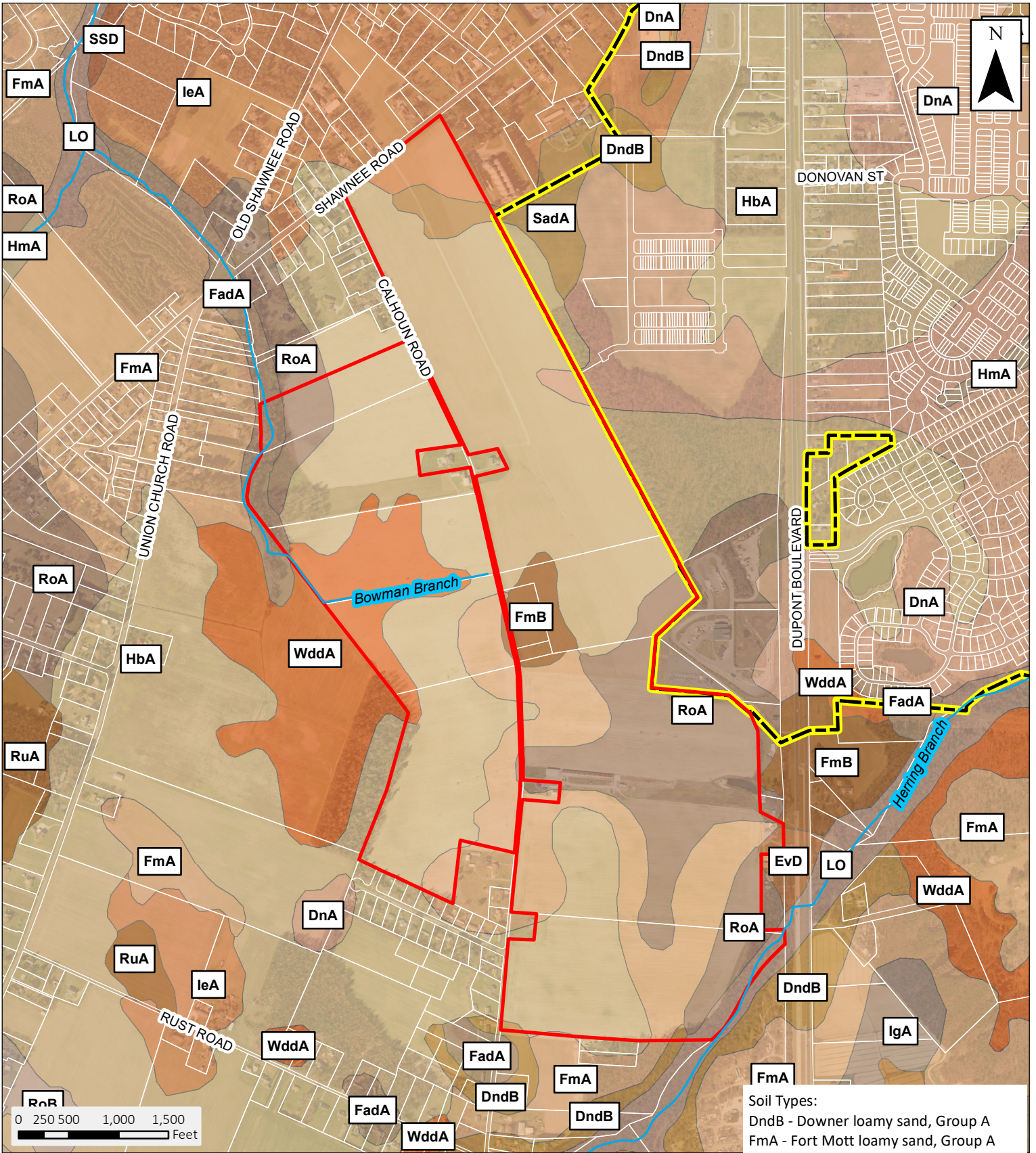


Surdex Corp

14	FEMA Floodplain Mapping			
	Freeman Solar Farm			Flood Map Reference: 10005C0039J (1/6/2005) 10005C0130K (3/16/15)
	BRKRE21001			



15	2020 Land Use Land Cover	
	Freeman Solar Farm	
	BRKRE21001	

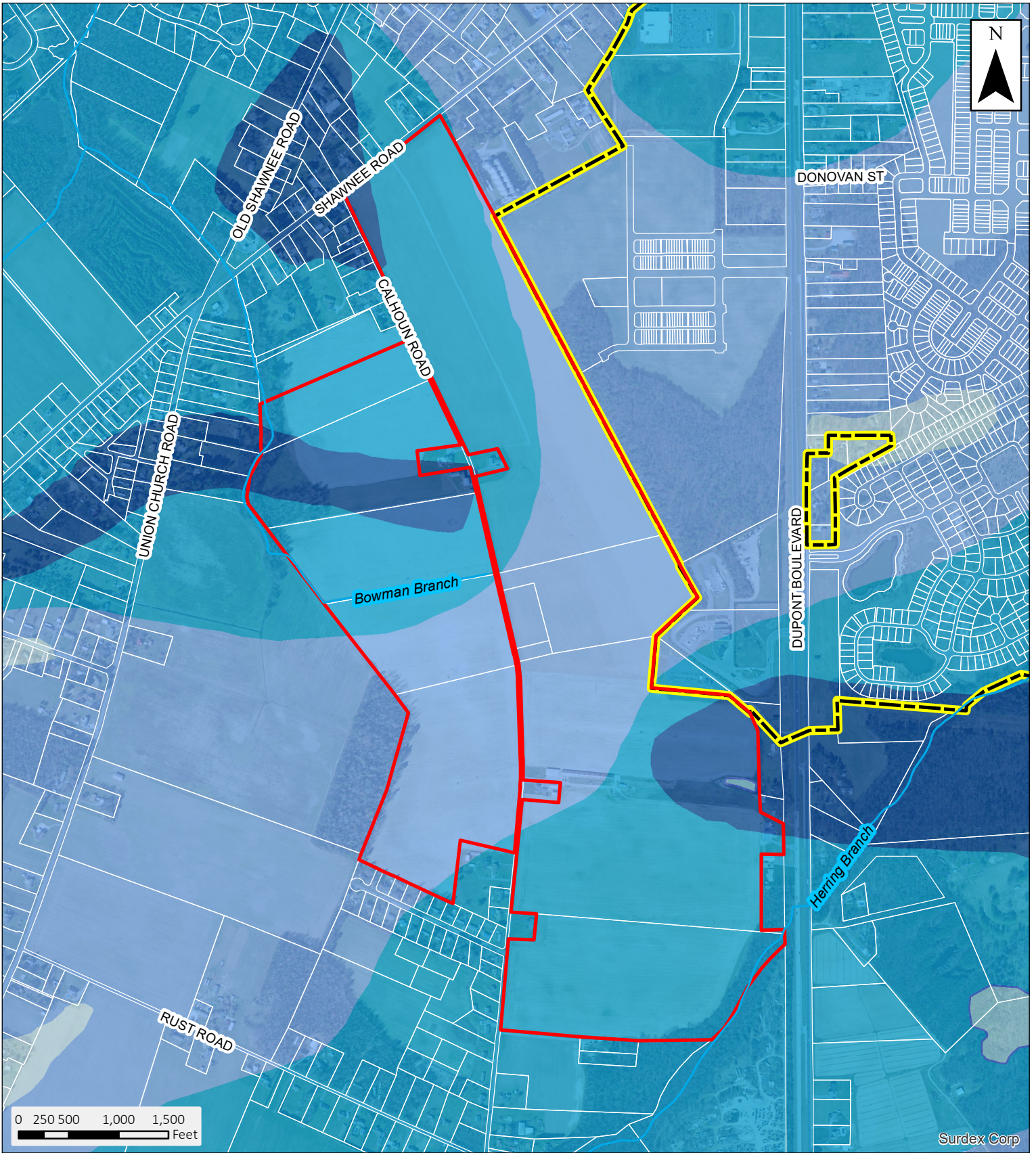


16

NRCS Soils Mapping
 Freeman Solar Farm
 BRKRE21001

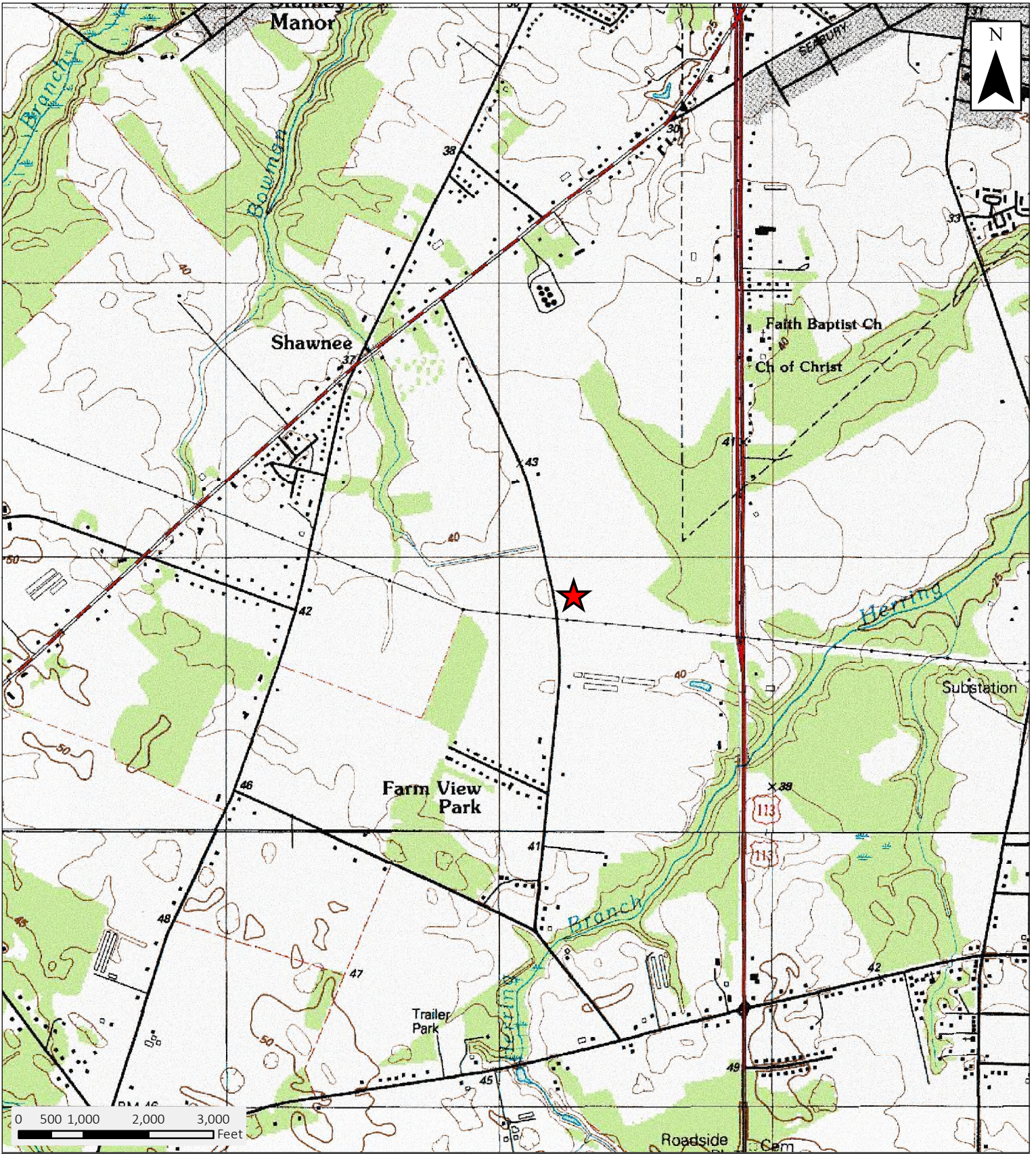



Soil Types:
 DndB - Downer loamy sand, Group A
 FmA - Fort Mott loamy sand, Group A
 FmB - Fort Mott loamy sand, Group A
 HbA - Hambrook sandy loam, Group B
 HmA - Hammonton loamy sand, Group B
 leA - Ingleside loamy sand, Group A
 RoA - Rosedale loamy sand, Group A
 SadA - Sassafras sandy loam, Group B
 WddA - Woodstown sandy loam, Group C

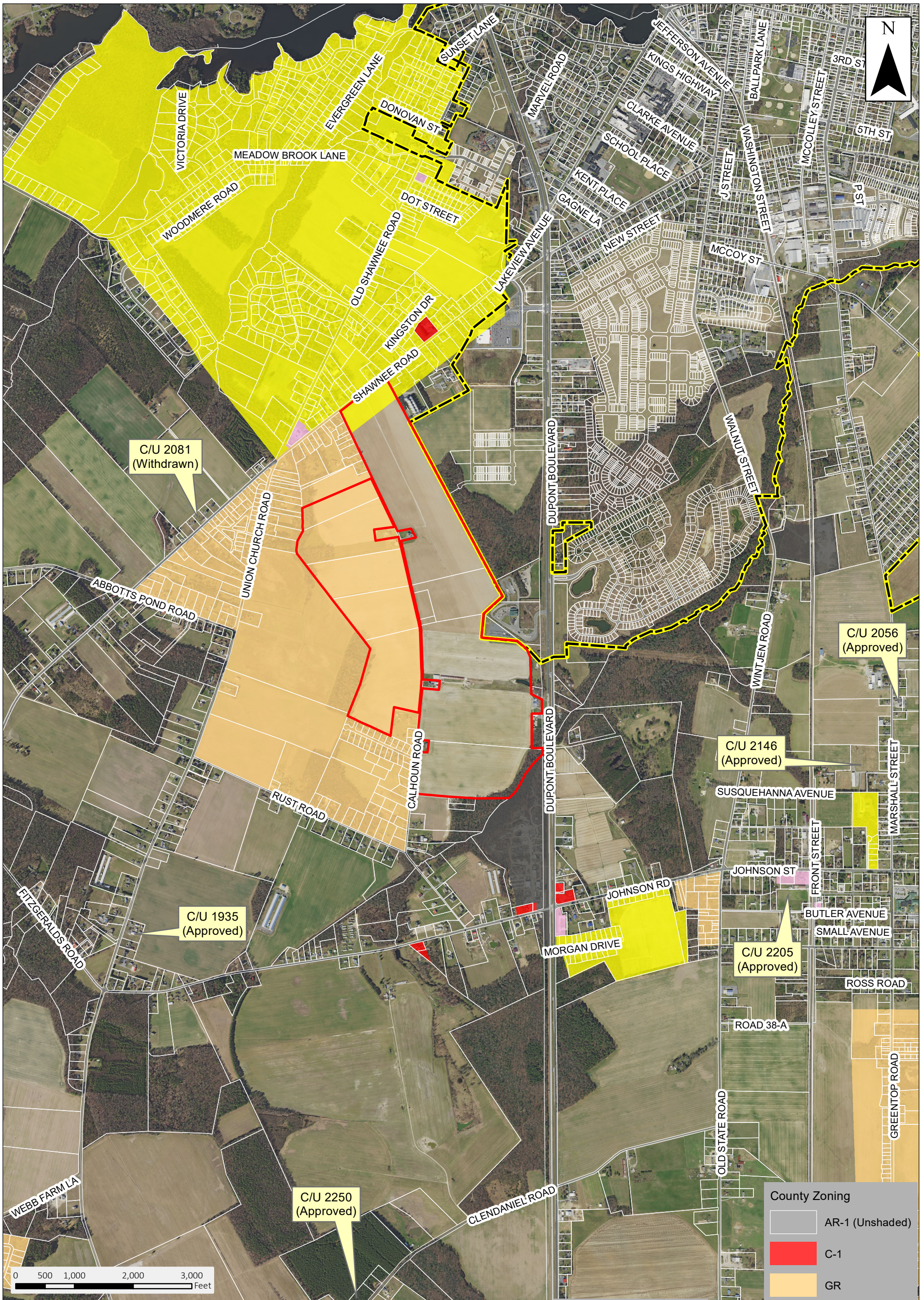


Surdex Corp

17	Groundwater Recharge Potential		<table border="1"> <tr> <td style="background-color: #4a7ebb; color: white;">Excellent</td> <td style="background-color: #e6f2ff;">Poor</td> </tr> <tr> <td style="background-color: #00a0e3; color: white;">Good</td> <td style="background-color: #cfe2f3;">Water Area</td> </tr> <tr> <td style="background-color: #99c2ff;">Fair</td> <td></td> </tr> </table>		Excellent	Poor	Good	Water Area	Fair	
	Excellent		Poor							
	Good		Water Area							
Fair										
Freeman Solar Farm										
BRKRE21001										



18	USGS Topographic Map	
	Freeman Solar Farm	
	BRKRE21001	



19	Area Land Use Applications
	Freeman Solar Farm
	BRKRE22001



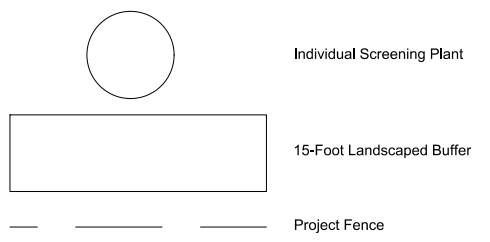
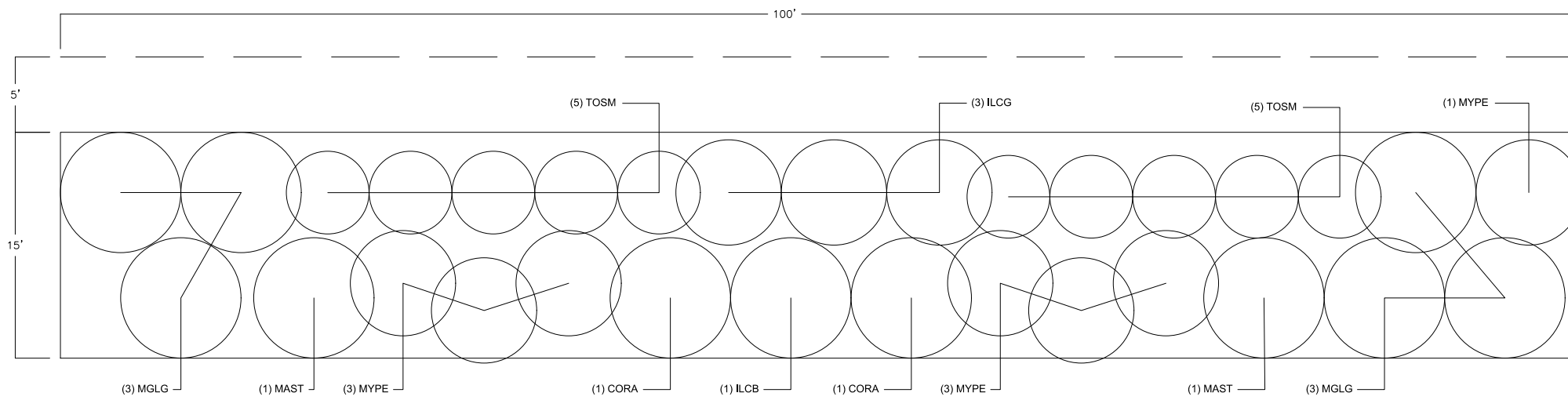
- Subject Parcels
- City of Milford
- Other Tax Parcels

County Zoning	
	AR-1 (Unshaded)
	C-1
	GR
	HI-1
	MR
	B-1

TAB 7

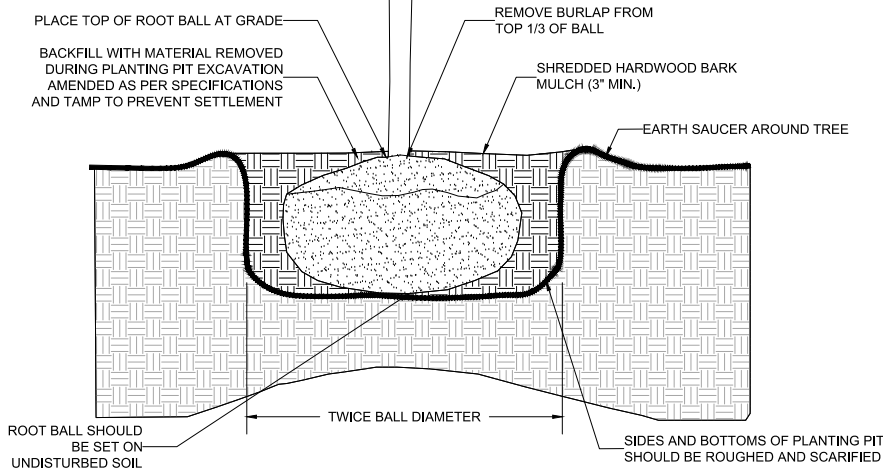
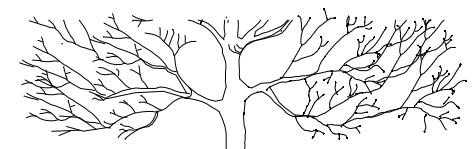
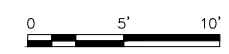
LANDSCAPE





Notes
 1. Data Sources: Stantec
 2. Exact plant selection and layout may vary depending on plant availability and site conditions.

TYPICAL 100' SECTION OF PLANTED VEGETATIVE SCREEN



VEGETATIVE BUFFER NOTES

GENERAL NOTES

- WHERE SUFFICIENT NATURAL VEGETATION DOES NOT EXIST TO PROTECT SENSITIVE VIEWS, A PLANTED BUFFER CONSISTING OF A LANDSCAPED STRIP OF AT LEAST FIFTEEN (15) FEET WIDE SHALL BE INSTALLED WITHIN THE REQUIRED SETBACKS.
- BUFFER SHALL CONSIST OF EXISTING VEGETATION AND, WHERE EXISTING VEGETATION IS NOT SUFFICIENT, AN INSTALLED LANDSCAPED STRIP CONSISTING OF TWO ROWS OF SMALL TREES AND POLLINATOR-FRIENDLY SEEDING.
- BUFFER SHALL BE MAINTAINED FOR THE LIFE OF THE FACILITY.

EXISTING BUFFER NOTES

- BUFFER SHALL BE MET WHERE POSSIBLE BY EXISTING WETLAND AND WOODLANDS.
- EXISTING WETLANDS OR WOODLANDS SERVING AS VEGETATIVE BUFFER SHALL BE MAINTAINED FOR THE LIFE OF THE FACILITY.
- IF EXISTING TREES AND VEGETATION ARE DISTURBED WHICH ARE PROVIDING REQUIRED SCREEN, NEW PLANTINGS SHALL BE PROVIDED FOR THE BUFFER.

PROPOSED BUFFER NOTES

- BUFFER SHALL BE SOWN WITH APPROPRIATE GRASS SPECIES THAT MEET EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- BUFFER SHALL BE, WHEN NECESSARY, PLANTED AND SEEDED PROMPTLY FOLLOWING COMPLETION OF CONSTRUCTION IN SUCH A MANNER AS TO REDUCE INVASIVE WEED GROWTH AND SEDIMENT RUN-OFF.
- TREES PLANTED IN THE BUFFER SHALL GROW TO A MINIMUM OF EIGHT (8) FEET WITHIN FIVE (5) YEARS.
- BUFFER SHALL BE MAINTAINED IN GOOD CONDITION UNTIL THE FACILITY HAS BEEN DECOMMISSIONED OR REMOVED.
- SECURITY FENCING SHALL BE INSTALLED ON THE INTERIOR OF THE BUFFER.

GENERAL PLANTING NOTES:

SHRUB AND TREE INSTALLATION

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK COVERED UNDER THESE PLANS.
- ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE UNIFORMLY BRANCHED AND HAVE A VIGOROUS ROOT SYSTEM. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE FROM DEFECTS, DECAY, DISEASES, INSECT PEST EGGS, AND ALL FORMS OF INFESTATION. ALL PLANT MATERIAL SHALL BE FRESH, FREE FROM TRANSPLANT SHOCK OR VISIBLE WILT. PLANTS DEEMED UNHEALTHY SHALL BE REJECTED.
- ALL PLANT MATERIAL SHALL MEET THE MINIMUM SPECIFICATIONS AND STANDARDS DESCRIBED IN THE CURRENT ISSUE OF "THE AMERICAN STANDARD FOR NURSERY STOCK," PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, 1250 I STREET, N.W., SUITE 500, WASHINGTON, D.C. 20005.
- ALL CONTAINER STOCK SHALL HAVE BEEN PROPAGATED IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL. CONTAINER STOCK WITH POORLY DEVELOPED ROOT SYSTEMS SHALL NOT BE ACCEPTED.
- PLANTS SHALL BE PREPARED FOR SHIPMENT IN A MANNER THAT SHALL NOT CAUSE DAMAGE TO THE BARK, BUDS, BRANCHES, STEMS, OR OVERALL SHAPE OF THE STOCK. CONTAINER GROWN PLANTS SHALL BE TRANSPORTED IN THE CONTAINERS IN WHICH THEY HAVE BEEN GROWN.
- PLANTS NOT INSTALLED ON THE DAY OF ARRIVAL AT THE SITE SHALL BE STORED AND PROTECTED BY THE CONTRACTOR. OUTSIDE STORAGE AREAS SHALL BE SHADED AND PROTECTED FROM THE WIND AND SUN. PLANTS STORED ON SITE SHALL BE PROTECTED FROM ANY DRYING AT ALL TIMES BY COVERING THE BALLS OR ROOTS WITH MOIST SAWDUST, WET BURLAP, WOOD CHIPS, SHREDDED BARK, PEAT MOSS, OR OTHER SIMILAR MULCHING MATERIAL.
- PLANT SUBSTITUTIONS MAY BE MADE BASED ON AVAILABILITY BUT MUST BE INCLUDED IN THE DELAWARE DEPARTMENT OF TRANSPORTATION'S "ROADSIDE VEGETATION CONCEPT AND PLANNING MANUAL" AND BE OF SIMILAR SIZE AND LANDSCAPE (SCREENING) VALUE. ALL SUBSTITUTIONS MUST BE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
- NO PLANTING SHALL OCCUR WHEN THE SOIL IS FROZEN.

PLANTING SEQUENCE

- HOLES FOR INDIVIDUAL PLANTINGS SHALL BE EXCAVATED TO PRODUCE VERTICAL SIDES AND FLAT BOTTOMS. ALL PLANTING HOLES SHALL HAVE ROUGHED, SCARIFIED SIDES AND BOTTOMS.
- THE CONTRACTOR SHALL APPLY AGRIFORM FOREST STARTER TABLETS, OR EQUIVALENT PRODUCT, TO EACH PLANT AS PER MANUFACTURER'S DIRECTIONS ON LABEL AT TIME OF PLANTING.
- CONTAINERED PLANTS SHALL BE SET IN THE PLANTING PIT AT THE PROPER DEPTH ON TAMPED SOIL. SOIL REMOVED FROM THE PLANTING PIT SHALL THEN BE FILLED AROUND THE ROOTS AND TAMPED.
- THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO INDICATED FINAL GRADES IF DISTURBED BY THE INSTALLATION OF SHRUBS AND TREES.

VISUAL SCREENING PLANTS

SYMBOL	BOTANICAL NAME	COMMON NAME	APPROXIMATE MATURE HEIGHT	APPROXIMATE MATURE SPREAD	INSTALLED SIZE SPECIFICATION	NOTES
ILCG	ILEX x MESERVEAE 'MESOG'	CHINA GIRL HOLLY	9'	7'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	PLANTS TO BE INSTALLED IN TWO OFF-SET ROWS.
ILCB	ILEX x MESERVEAE 'MESDOB'	CHINA BOY HOLLY	9'	6'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	SPACE PLANTS 5 TO 8 FEET ON CENTER OR AS APPROPRIATE PER THE SPECIES GROWTH HABIT AND SHOWN ABOVE.
CORA	CORNUS RACEMOSA	GRAY DOGWOOD	12'	12'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	INTENT IS TO LET THE CANOPIES GROW TOGETHER AND CREATE A FULL SCREEN OF THE SOLAR EQUIPMENT WITHIN 5 YEARS.
TOSM	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	12'	4'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF PLANT MATERIAL PER THE PLAN.
MGLG	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA	18'	8'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	PLANT A MIXTURE OF CHINA BOY AND CHINA GIRL HOLLY TO PROMOTE BERRY PRODUCTION. 4 CHINA GIRL FOR EVERY 1 CHINA BOY.
MYPE	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	8'	8'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	
MAST	MAGNOLIA STELLATA	STAR MAGNOLIA	18'	15'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	

NOTES: 1) PROPOSED PLANTS WERE SELECTED BASED ON THE DELAWARE DEPARTMENT OF TRANSPORTATION'S PUBLICATION - "ROADSIDE VEGETATION CONCEPT AND PLANNING MANUAL." IN SOME CASES CULTIVARS OR CLOSELY RELATED SPECIES WERE SELECTED WITH SHORTER TYPICAL HEIGHTS TO AVOID SHADING CONFLICTS.
 2) ESTIMATED INSTALLED COST IS BASED ON AN INDUSTRY RULE OF THUMB OF THREE TIMES THE COST OF THE PLANT. CONTRACTOR PRICES WILL VARY.

DETAIL: TREE PLANTING

NTS

Revision	By	Appd.	YY.MM.DD
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			

1599 RT 34 Suite 3
 Wall Township, NJ
 www.stantec.com

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Client/Project
 BROOKFIELD RENEWABLE US
 75MW AC FREEMAN SOLAR

MILFORD, SUSSEX COUNTY, DE

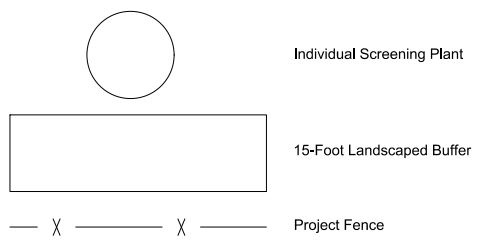
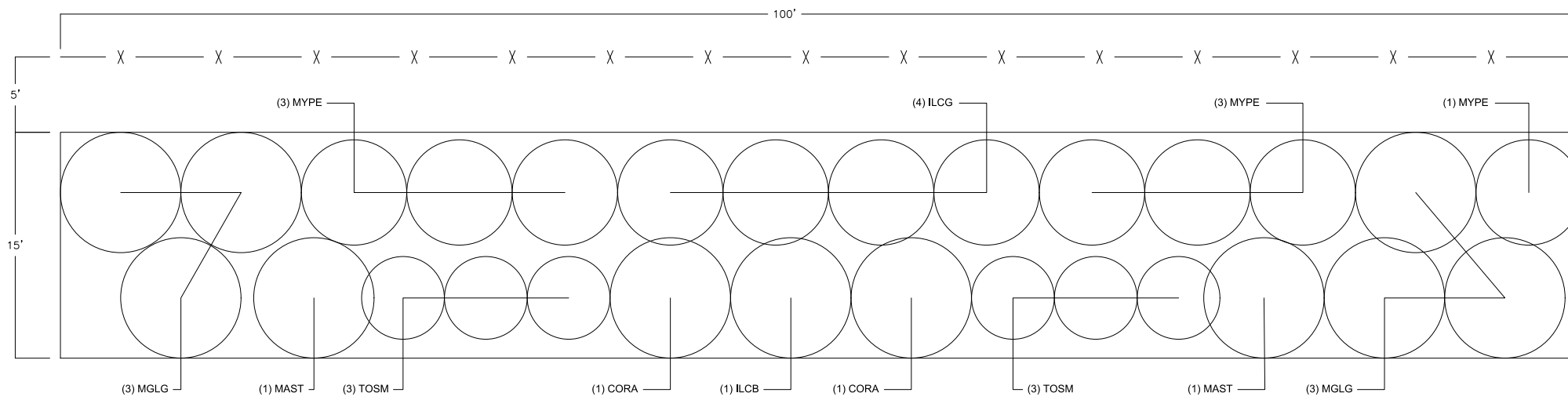
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Title
 PLANTING NOTES

Project No. 2028095052 Scale AS SHOWN

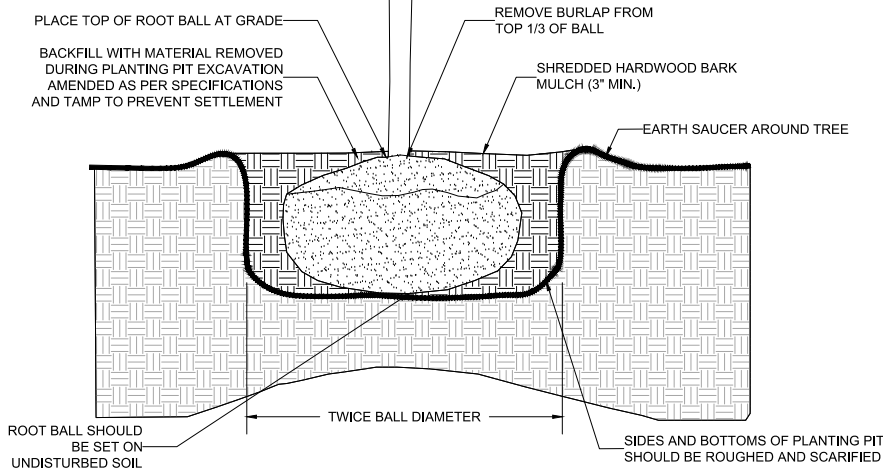
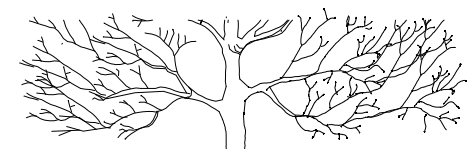
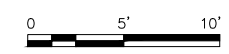
Drawing No. E-2 Sheet 2 of 2 Revision 0

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Notes
 1. Data Sources: Stantec
 2. Exact plant selection and layout may vary depending on plant availability and site conditions.

TYPICAL 100' SECTION OF PLANTED VEGETATIVE SCREEN



DETAIL: TREE PLANTING

NTS

VEGETATIVE BUFFER NOTES

GENERAL NOTES

- WHERE SUFFICIENT NATURAL VEGETATION DOES NOT EXIST TO PROTECT SENSITIVE VIEWS, A PLANTED BUFFER CONSISTING OF A LANDSCAPED STRIP OF AT LEAST FIFTEEN (15) FEET WIDE SHALL BE INSTALLED WITHIN THE REQUIRED SETBACKS.
- BUFFER SHALL CONSIST OF EXISTING VEGETATION AND, WHERE EXISTING VEGETATION IS NOT SUFFICIENT, AN INSTALLED LANDSCAPED STRIP CONSISTING OF TWO ROWS OF SMALL TREES AND POLLINATOR-FRIENDLY SEEDING.
- BUFFER SHALL BE MAINTAINED FOR THE LIFE OF THE FACILITY.

EXISTING BUFFER NOTES

- BUFFER SHALL BE MET WHERE POSSIBLE BY EXISTING WETLAND AND WOODLANDS.
- EXISTING WETLANDS OR WOODLANDS SERVING AS VEGETATIVE BUFFER SHALL BE MAINTAINED FOR THE LIFE OF THE FACILITY.
- IF EXISTING TREES AND VEGETATION ARE DISTURBED WHICH ARE PROVIDING REQUIRED SCREEN, NEW PLANTINGS SHALL BE PROVIDED FOR THE BUFFER.

PROPOSED BUFFER NOTES

- BUFFER SHALL BE SOWN WITH APPROPRIATE GRASS SPECIES THAT MEET EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- BUFFER SHALL BE, WHEN NECESSARY, PLANTED AND SEEDED PROMPTLY FOLLOWING COMPLETION OF CONSTRUCTION IN SUCH A MANNER AS TO REDUCE INVASIVE WEED GROWTH AND SEDIMENT RUN-OFF.
- TREES PLANTED IN THE BUFFER SHALL GROW TO A MINIMUM OF EIGHT (8) FEET WITHIN FIVE (5) YEARS.
- BUFFER SHALL BE MAINTAINED IN GOOD CONDITION UNTIL THE FACILITY HAS BEEN DECOMMISSIONED OR REMOVED.
- SECURITY FENCING SHALL BE INSTALLED ON THE INTERIOR OF THE BUFFER.

GENERAL PLANTING NOTES:

SHRUB AND TREE INSTALLATION

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK COVERED UNDER THESE PLANS.
- ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE UNIFORMLY BRANCHED AND HAVE A VIGOROUS ROOT SYSTEM. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE FROM DEFECTS, DECAY, DISEASES, INSECT PEST EGGS, AND ALL FORMS OF INFESTATION. ALL PLANT MATERIAL SHALL BE FRESH, FREE FROM TRANSPLANT SHOCK OR VISIBLE WILT. PLANTS DEEMED UNHEALTHY SHALL BE REJECTED.
- ALL PLANT MATERIAL SHALL MEET THE MINIMUM SPECIFICATIONS AND STANDARDS DESCRIBED IN THE CURRENT ISSUE OF "THE AMERICAN STANDARD FOR NURSERY STOCK," PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, 1250 I STREET, N.W., SUITE 500, WASHINGTON, D.C. 20005.
- ALL CONTAINER STOCK SHALL HAVE BEEN PROPAGATED IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL. CONTAINER STOCK WITH POORLY DEVELOPED ROOT SYSTEMS SHALL NOT BE ACCEPTED.
- PLANTS SHALL BE PREPARED FOR SHIPMENT IN A MANNER THAT SHALL NOT CAUSE DAMAGE TO THE BARK, BUDS, BRANCHES, STEMS, OR OVERALL SHAPE OF THE STOCK. CONTAINER GROWN PLANTS SHALL BE TRANSPORTED IN THE CONTAINERS IN WHICH THEY HAVE BEEN GROWN.
- PLANTS NOT INSTALLED ON THE DAY OF ARRIVAL AT THE SITE SHALL BE STORED AND PROTECTED BY THE CONTRACTOR. OUTSIDE STORAGE AREAS SHALL BE SHADED AND PROTECTED FROM THE WIND AND SUN. PLANTS STORED ON SITE SHALL BE PROTECTED FROM ANY DRYING AT ALL TIMES BY COVERING THE BALLS OR ROOTS WITH MOIST SAWDUST, WET BURLAP, WOOD CHIPS, SHREDDED BARK, PEAT MOSS, OR OTHER SIMILAR MULCHING MATERIAL.
- PLANT SUBSTITUTIONS MAY BE MADE BASED ON AVAILABILITY BUT MUST BE INCLUDED IN THE DELAWARE DEPARTMENT OF TRANSPORTATION'S "ROADSIDE VEGETATION CONCEPT AND PLANNING MANUAL" AND BE OF SIMILAR SIZE AND LANDSCAPE (SCREENING) VALUE. ALL SUBSTITUTIONS MUST BE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
- NO PLANTING SHALL OCCUR WHEN THE SOIL IS FROZEN.

PLANTING SEQUENCE

- HOLES FOR INDIVIDUAL PLANTINGS SHALL BE EXCAVATED TO PRODUCE VERTICAL SIDES AND FLAT BOTTOMS. ALL PLANTING HOLES SHALL HAVE ROUGHED, SCARIFIED SIDES AND BOTTOMS.
- THE CONTRACTOR SHALL APPLY AGRIFORM FOREST STARTER TABLETS, OR EQUIVALENT PRODUCT, TO EACH PLANT AS PER MANUFACTURER'S DIRECTIONS ON LABEL AT TIME OF PLANTING.
- CONTAINERED PLANTS SHALL BE SET IN THE PLANTING PIT AT THE PROPER DEPTH ON TAMPED SOIL. SOIL REMOVED FROM THE PLANTING PIT SHALL THEN BE FILLED AROUND THE ROOTS AND TAMPED.
- THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO INDICATED FINAL GRADES IF DISTURBED BY THE INSTALLATION OF SHRUBS AND TREES.

VISUAL SCREENING PLANTS

SYMBOL	BOTANICAL NAME	COMMON NAME	APPROXIMATE MATURE HEIGHT	APPROXIMATE MATURE SPREAD	INSTALLED SIZE SPECIFICATION	NOTES
ILCG	ILEX x MESERVEAE 'MESOG'	CHINA GIRL HOLLY	9'	7'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	PLANTS TO BE INSTALLED IN TWO OFF-SET ROWS.
ILCB	ILEX x MESERVEAE 'MESDOB'	CHINA BOY HOLLY	9'	6'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	SPACE PLANTS 5 TO 8 FEET ON CENTER OR AS APPROPRIATE PER THE SPECIES GROWTH HABIT AND SHOWN ABOVE.
CORA	CORNUS RACEMOSA	GRAY DOGWOOD	12'	12'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	INTENT IS TO LET THE CANOPIES GROW TOGETHER AND CREATE A FULL SCREEN OF THE SOLAR EQUIPMENT WITHIN 5 YEARS.
TOSM	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	12'	4'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF PLANT MATERIAL PER THE PLAN.
MGLG	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA	18'	8'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	PLANT A MIXTURE OF CHINA BOY AND CHINA GIRL HOLLY TO PROMOTE BERRY PRODUCTION. 4 CHINA GIRL FOR EVERY 1 CHINA BOY.
MYPE	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	8'	8'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	
MAST	MAGNOLIA STELLATA	STAR MAGNOLIA	18'	15'	B&B OR CONTAINER, 4' HEIGHT MINIMUM	

NOTES: 1) PROPOSED PLANTS WERE SELECTED BASED ON THE DELAWARE DEPARTMENT OF TRANSPORTATION'S PUBLICATION - "ROADSIDE VEGETATION CONCEPT AND PLANNING MANUAL." IN SOME CASES CULTIVARS OR CLOSELY RELATED SPECIES WERE SELECTED WITH SHORTER TYPICAL HEIGHTS TO AVOID SHADING CONFLICTS.
 2) ESTIMATED INSTALLED COST IS BASED ON AN INDUSTRY RULE OF THUMB OF THREE TIMES THE COST OF THE PLANT. CONTRACTOR PRICES WILL VARY.

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Revision	By	Appd.	YY.MM.DD	Description	By	Appd.	YY.MM.DD
0				CONCEPT DESIGN	CMA	TX	21.06.22
				Issued			

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 Wall Township, NJ
 www.stantec.com

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Client/Project
 BROOKFIELD RENEWABLE US
 75MW AC FREEMAN SOLAR

MILFORD, SUSSEX COUNTY, DE

File Name: Freeman_Landscape_dwg
 JKM Dwn. MGS Chkd. JO Dsgn. 21.06.21 YY.MM.DD

Title
 PLANTING NOTES

Project No. 2028095052 Scale AS SHOWN

Drawing No. E-2 Sheet 2 of 2 Revision 0





**STATE OF DELAWARE
EXECUTIVE DEPARTMENT
OFFICE OF STATE PLANNING COORDINATION**

April 27, 2022

Ms. Lauren Devore
Sussex County Planning
P.O. Box 589
Georgetown, DE 19947

RE: PLUS Waiver Request – Proposed Freeman Solar Farm
Tax Parcels: 130-3.00-246.00, 130-3.00-247.00, 130.-3.00-247.02, 130-6.00-75.00,
130-6.00-76.00, 130-3.00-92.00, 130-3.00-94.00, 130-3.00-95.00, 130-3.00-96.00,
and 130-3.00-97.00

Dear Ms. Devore:

Our office received your request for a PLUS waiver for the proposed Freeman Solar farm. Upon review of the submitted plans and the description of the project, our office agrees that the proposed solar farm is a low-impact project. It will bring more renewable energy to Sussex County and it will have minimal land use and environmental impacts. Therefore, our office approves the waiver request.

This does not waive the applicant from contacting State agencies to determine code and permitting requirements. Any development on the site will still be required to follow all relevant codes and permitting procedures set forth by the State of Delaware. In addition, this does not waive the local Sussex County review and approval process.

If you have any questions, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Edgell", written over a white background.

David L. Edgell, AICP
Director, Office of State Planning Coordination

Cc: Calhoun Ventures
City of Milford