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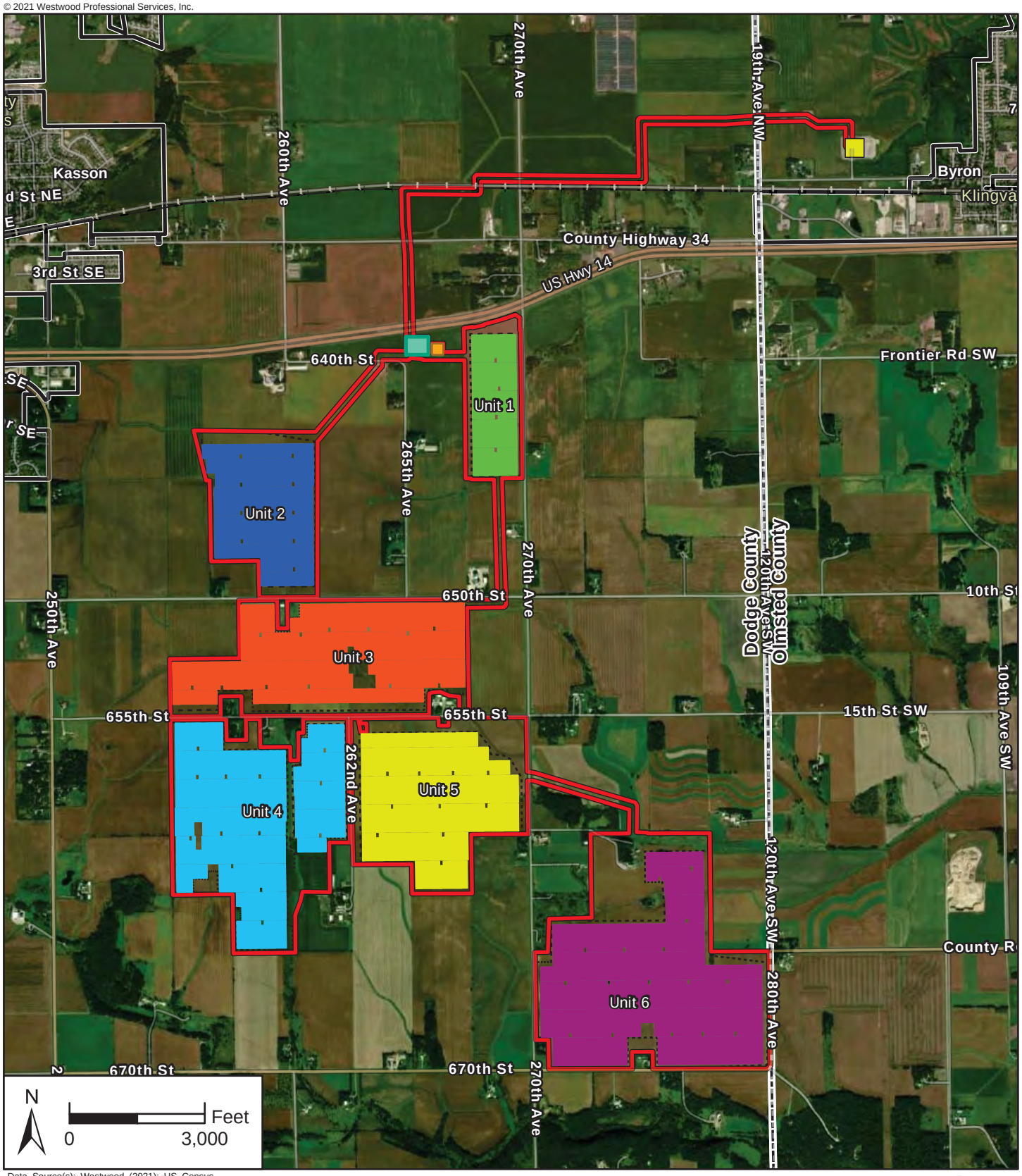

Data Source(s): Westwood (2021); US Census Bureau (2019); Esri World Imagery Basemap (Accessed 2021).

Byron Solar Project

Dodge and Olmsted Counties, Minnesota

Configuration of Proposed Project Arrays

EXHIBIT 4

Legend

- Project Area Boundary
- Existing Substation
- Project Substation
- O&M Building
- Proposed Fence
- County Boundary
- Municipal Boundary

Proposed Project Array Units

- Unit 1
- Unit 2
- Unit 3
- Unit 4
- Unit 5
- Unit 6

Westwood

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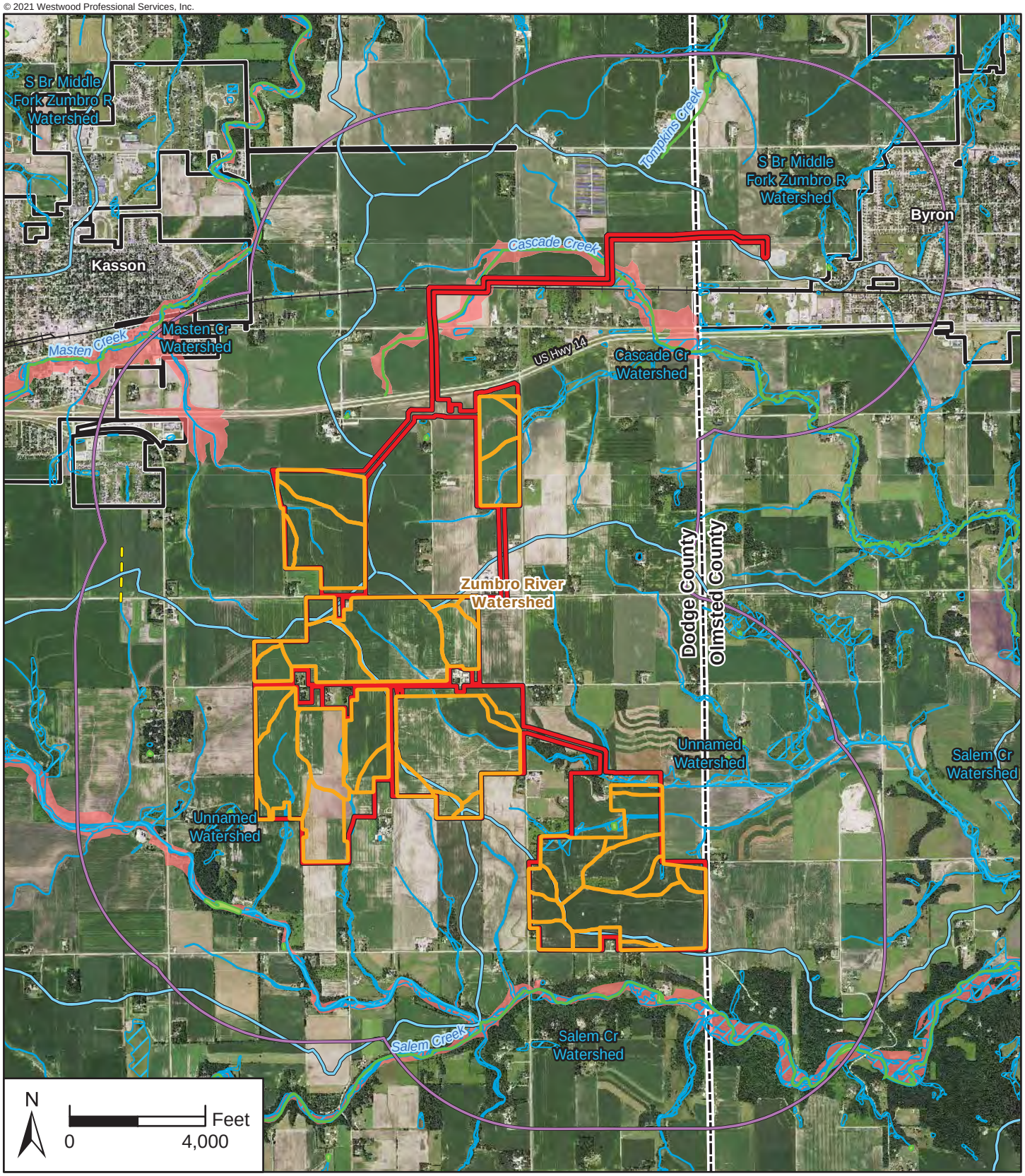

Data Source(s): Westwood (2021); US Census Bureau (2019); USGS NHD Dataset (2013); USFWS NWI (2017); FEMA (Various Dates); Dodge and Olmsted County DOQ Imagery (2019).

Legend

- Project Area Boundary
- 1-Mile Project Boundary Buffer
- Hydro Drainage Area
- Major Watershed Boundary
- Minor Watershed Boundary
- Drainage Ditch
- NWI Wetland
- NHD Flowline
- NHD Waterbody
- PWI Watercourse
- PWI Basin
- FEMA Floodplain
- Railroad
- Municipal Boundary
- County Boundary

Byron Solar Project

Dodge and Olmsted Counties, Minnesota

Surface Waters & Watersheds of Project Area

EXHIBIT 5

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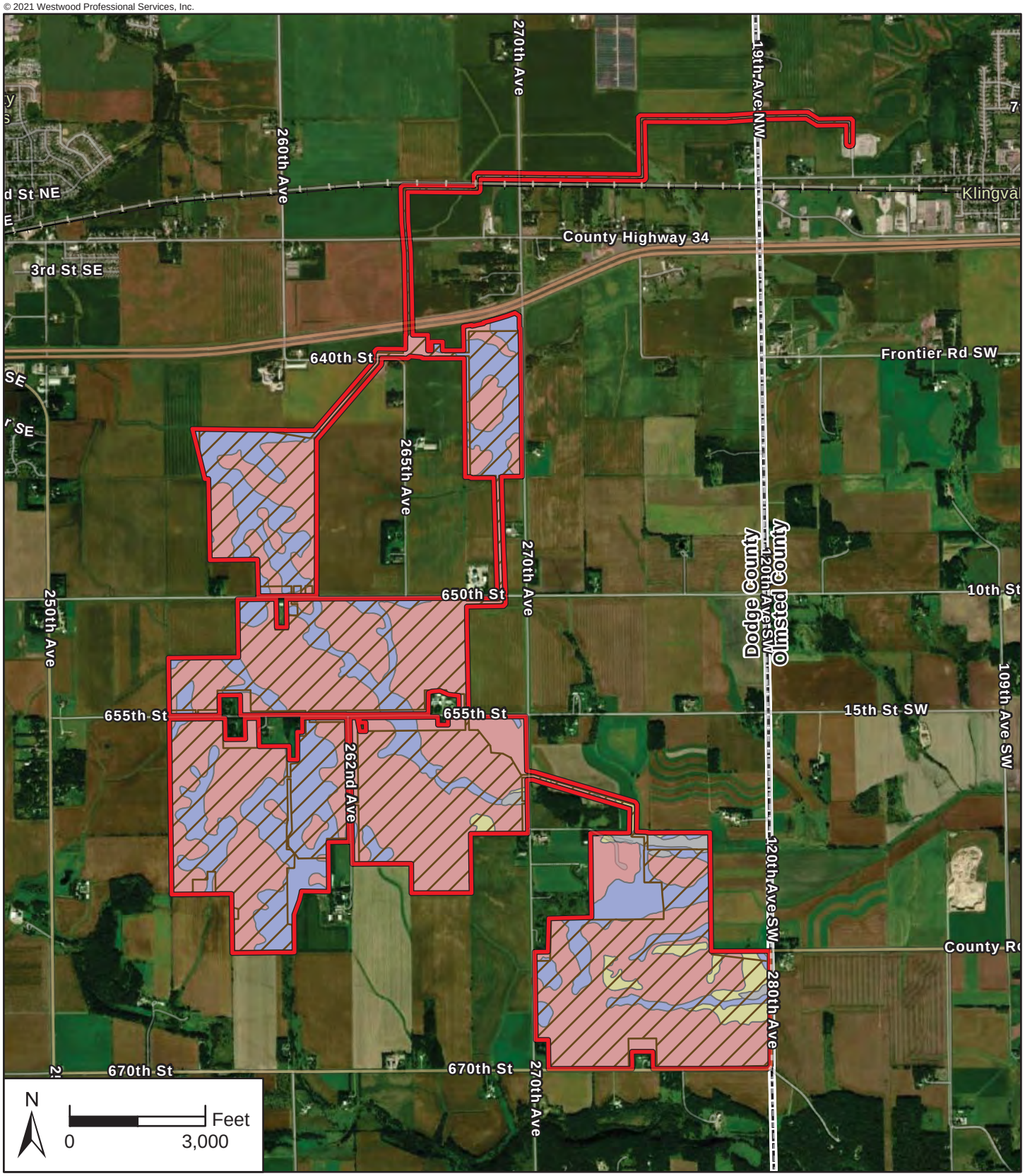

Data Source(s): Westwood (2021); US Census Bureau (2019); USGS NLCD (2016); NRCS (2021); ESRI World Imagery Basemap (Accessed 2021).

Legend

- Project Area Boundary
- Preliminary Development Area
- Railroad
- County Boundary

Farmland Classification - Acreage (% of Preliminary Development Area)

- All areas are prime farmland (67.8%)
- Farmland of statewide importance (2.8%)
- Prime farmland if drained (28.2%)
- Prime farmland if protected from flooding or not frequently flooded during the growing season (0.1%)
- Not prime farmland (1.1%)

Byron Solar Project

Dodge and Olmsted Counties, Minnesota

Project Area Prime Farmland

EXHIBIT 6

Westwood

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Appendix A

Selected Soils Physical Features, Classifications, Interpretations, and Limitations

Byron Solar Project
Dodge and Olmsted Counties, Minnesota

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	Selected Soil Physical Features					Selected Soil Classifications			
Map Unit Name[3]	Particle Size Family[3]	Slope Range[4]	Drainage Class[5]	Topsoil Thickness (in)[6]	Prime Farmland[3]	Land Capability Classification[3]	Hydric Soil Rating[3]	Highly Erodible Water[7]	Highly Erodible Wind[8]
Clyde silty clay loam, 0 to 3 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Clyde silty clay loam, 0 to 3 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Clyde-Floyd complex, 1 to 4 percent slopes	fine-loamy	2.00	Poorly drained	23	Prime farmland if drained	2w	Yes	No	No
Kasson silt loam, 2 to 6 percent slopes	fine-loamy	3.00	Moderately well drained	8	All areas are prime farmland	2e	No	No	No
Mantorville loam, 6 to 12 percent slopes, moderately eroded	fine-loamy over sandy or sandy-skeletal	9.00	Well drained	15	Farmland of statewide importance	3e	No	No	No
Marquis silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Moderately well drained	19	All areas are prime farmland	2e	No	No	No
Nasset-Winneshiek complex, 12 to 18 percent slopes, moderately eroded	fine-silty	15.00	Well drained	6	Not prime farmland	4e	No	Yes	No
Oran silt loam, 1 to 4 percent slopes	fine-loamy	3.00	Somewhat poorly drained	8	All areas are prime farmland	1	No	No	No
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Tripoli silty clay loam, 0 to 2 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Winneshiek silt loam, 2 to 6 percent slopes	fine-loamy	4.00	Well drained	7	All areas are prime farmland	2e	No	No	No
Winneshiek silt loam, 6 to 12 percent slopes, moderately eroded	fine-loamy	8.00	Well drained	7	Farmland of statewide importance	3e	No	No	No
Barremills silt loam, drainageway, 1 to 5 percent slopes, occasionally flooded	fine-silty	3.00	Well drained	27	All areas are prime farmland	2e	No	No	No
Bassett-Kasson complex, 6 to 12 percent slopes, eroded	fine-loamy	8.00	Moderately well drained	7	Farmland of statewide importance	3e	No	No	No
Clyde silty clay loam, 0 to 3 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Clyde-Floyd complex, 1 to 4 percent slopes	fine-loamy	2.00	Poorly drained	23	Prime farmland if drained	2w	Yes	No	No
Coland-Spillville complex, 0 to 2 percent slopes, flooded	fine-loamy	1.00	Poorly drained	32	Not prime farmland	5w	Yes	No	No
Kasson silt loam, 2 to 6 percent slopes	fine-loamy	3.00	Moderately well drained	8	All areas are prime farmland	2e	No	No	No
Mantorville loam, 6 to 12 percent slopes, moderately eroded	fine-loamy over sandy or sandy-skeletal	9.00	Well drained	15	Farmland of statewide importance	3e	No	No	No
Marquis silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Moderately well drained	19	All areas are prime farmland	2e	No	No	No
Nasset-Winneshiek complex, 12 to 18 percent slopes, moderately eroded	fine-silty	15.00	Well drained	6	Not prime farmland	4e	No	Yes	No

	Selected Soil Physical Features					Selected Soil Classifications			
Map Unit Name[3]	Particle Size Family[3]	Slope Range[4]	Drainage Class[5]	Topsoil Thickness (in)[6]	Prime Farmland[3]	Land Capability Classification[3]	Hydric Soil Rating[3]	Highly Erodible Water[7]	Highly Erodible Wind[8]
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Tripoli silty clay loam, 0 to 2 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Winneshiek silt loam, 2 to 6 percent slopes	fine-loamy	4.00	Well drained	7	All areas are prime farmland	2e	No	No	No
Winneshiek silt loam, 6 to 12 percent slopes, moderately eroded	fine-loamy	8.00	Well drained	7	Farmland of statewide importance	3e	No	No	No
Barremills silt loam, drainageway, 1 to 5 percent slopes, occasionally flooded	fine-silty	3.00	Well drained	27	All areas are prime farmland	2e	No	No	No
Clyde silty clay loam, 0 to 3 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Clyde-Floyd complex, 1 to 4 percent slopes	fine-loamy	2.00	Poorly drained	23	Prime farmland if drained	2w	Yes	No	No
Coland-Spillville complex, 0 to 2 percent slopes, flooded	fine-loamy	1.00	Poorly drained	32	Not prime farmland	5w	Yes	No	No
Kasson silt loam, 2 to 6 percent slopes	fine-loamy	3.00	Moderately well drained	8	All areas are prime farmland	2e	No	No	No
Mantorville loam, 2 to 6 percent slopes	fine-loamy over sandy or sandy-skeletal	4.00	Well drained	15	All areas are prime farmland	2e	No	No	No
Mantorville loam, 6 to 12 percent slopes, moderately eroded	fine-loamy over sandy or sandy-skeletal	9.00	Well drained	15	Farmland of statewide importance	3e	No	No	No
Marquis silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Moderately well drained	19	All areas are prime farmland	2e	No	No	No
Nasset-Winneshiek complex, 12 to 18 percent slopes, moderately eroded	fine-silty	15.00	Well drained	6	Not prime farmland	4e	No	Yes	No
Oran silt loam, 1 to 4 percent slopes	fine-loamy	3.00	Somewhat poorly drained	8	All areas are prime farmland	1	No	No	No
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Tripoli silty clay loam, 0 to 2 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Winneshiek silt loam, 2 to 6 percent slopes	fine-loamy	4.00	Well drained	7	All areas are prime farmland	2e	No	No	No
Winneshiek silt loam, 6 to 12 percent slopes, moderately eroded	fine-loamy	8.00	Well drained	7	Farmland of statewide importance	3e	No	No	No
Clyde silty clay loam, 0 to 3 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Clyde-Floyd complex, 1 to 4 percent slopes	fine-loamy	2.00	Poorly drained	23	Prime farmland if drained	2w	Yes	No	No
Kasson silt loam, 2 to 6 percent slopes	fine-loamy	3.00	Moderately well drained	8	All areas are prime farmland	2e	No	No	No

	Selected Soil Physical Features					Selected Soil Classifications			
Map Unit Name[3]	Particle Size Family[3]	Slope Range[4]	Drainage Class[5]	Topsoil Thickness (in)[6]	Prime Farmland[3]	Land Capability Classification[3]	Hydric Soil Rating[3]	Highly Erodible Water[7]	Highly Erodible Wind[8]
Marquis silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Moderately well drained	19	All areas are prime farmland	2e	No	No	No
Oran silt loam, 1 to 4 percent slopes	fine-loamy	3.00	Somewhat poorly drained	8	All areas are prime farmland	1	No	No	No
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Tripoli silty clay loam, 0 to 2 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Winneshiek silt loam, 2 to 6 percent slopes	fine-loamy	4.00	Well drained	7	All areas are prime farmland	2e	No	No	No
Winneshiek silt loam, 6 to 12 percent slopes, moderately eroded	fine-loamy	8.00	Well drained	7	Farmland of statewide importance	3e	No	No	No
Barremills silt loam, drainageway, 1 to 5 percent slopes, occasionally flooded	fine-silty	3.00	Well drained	27	All areas are prime farmland	2e	No	No	No
Kasson silt loam, 2 to 6 percent slopes	fine-loamy	3.00	Moderately well drained	8	All areas are prime farmland	2e	No	No	No
Marquis silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Moderately well drained	19	All areas are prime farmland	2e	No	No	No
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Tripoli silty clay loam, 0 to 2 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Marquis silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Moderately well drained	19	All areas are prime farmland	2e	No	No	No
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Tripoli silty clay loam, 0 to 2 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Clyde silty clay loam, 0 to 3 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Clyde-Floyd complex, 1 to 4 percent slopes	fine-loamy	2.00	Poorly drained	23	Prime farmland if drained	2w	Yes	No	No
Coland-Spillville complex, 0 to 2 percent slopes, flooded	fine-loamy	1.00	Poorly drained	32	Not prime farmland	5w	Yes	No	No
Kasson silt loam, 2 to 6 percent slopes	fine-loamy	3.00	Moderately well drained	8	All areas are prime farmland	2e	No	No	No
Nasset-Winneshiek complex, 12 to 18 percent slopes, moderately eroded	fine-silty	15.00	Well drained	6	Not prime farmland	4e	No	Yes	No
Oran silt loam, 1 to 4 percent slopes	fine-loamy	3.00	Somewhat poorly drained	8	All areas are prime farmland	1	No	No	No
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Tripoli silty clay loam, 0 to 2 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Winneshiek silt loam, 2 to 6									

	Selected Soil Physical Features					Selected Soil Classifications			
Map Unit Name[3]	Particle Size Family[3]	Slope Range[4]	Drainage Class[5]	Topsoil Thickness (in)[6]	Prime Farmland[3]	Land Capability Classification[3]	Hydric Soil Rating[3]	Highly Erodible Water[7]	Highly Erodible Wind[8]
Winneshiek silt loam, 6 to 12 percent slopes, moderately eroded	fine-loamy	8.00	Well drained	7	Farmland of statewide importance	3e	No	No	No
Marquis silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Moderately well drained	19	All areas are prime farmland	2e	No	No	No
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Clyde-Floyd complex, 1 to 4 percent slopes	fine-loamy	2.00	Poorly drained	23	Prime farmland if drained	2w	Yes	No	No
Garwin silty clay loam	fine-silty	1.00	Poorly drained	13	Prime farmland if drained	2w	Yes	No	No
Joy silt loam, 1 to 4 percent slopes	fine-silty	2.00	Somewhat poorly drained	20	All areas are prime farmland	2e	No	No	No
Joy-Ossian, occasionally flooded, complex, 1 to 5 percent slopes	fine-silty	3.00	Somewhat poorly drained	17	Prime farmland if protected from flooding or not frequently flooded during the growing season	1	No	No	No
Marquis silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Moderately well drained	19	All areas are prime farmland	2e	No	No	No
Port Byron silt loam, 0 to 2 percent slopes	fine-silty	1.00	Well drained	15	All areas are prime farmland	1	No	No	No
Port Byron silt loam, 2 to 6 percent slopes	fine-silty	4.00	Well drained	15	All areas are prime farmland	2e	No	No	No
Port Byron silt loam, 6 to 12 percent slopes, moderately eroded	fine-silty	8.00	Well drained	15	Farmland of statewide importance	3e	No	No	No
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Tama-Dinsmore complex, 2 to 6 percent slopes	fine-silty	4.00	Well drained	13	All areas are prime farmland	2e	No	No	No
Tripoli silty clay loam, 0 to 2 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Clyde-Floyd complex, 1 to 4 percent slopes	fine-loamy	2.00	Poorly drained	23	Prime farmland if drained	2w	Yes	No	No
Garwin silty clay loam	fine-silty	1.00	Poorly drained	13	Prime farmland if drained	2w	Yes	No	No
Joy silt loam, 1 to 4 percent slopes	fine-silty	2.00	Somewhat poorly drained	20	All areas are prime farmland	2e	No	No	No
Joy-Ossian, occasionally flooded, complex, 1 to 5 percent slopes	fine-silty	3.00	Somewhat poorly drained	17	Prime farmland if protected from flooding or not frequently flooded during the growing season	1	No	No	No
Marquis silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Moderately well drained	19	All areas are prime farmland	2e	No	No	No
Oronoco loam, 6 to 12 percent slopes	coarse-loamy	8.00	Well drained	11	Farmland of statewide importance	3e	No	No	No
Port Byron silt loam, 0 to 2 percent slopes	fine-silty	1.00	Well drained	15	All areas are prime farmland	1	No	No	No

	Selected Soil Physical Features					Selected Soil Classifications			
Map Unit Name[3]	Particle Size Family[3]	Slope Range[4]	Drainage Class[5]	Topsoil Thickness (in)[6]	Prime Farmland[3]	Land Capability Classification[3]	Hydric Soil Rating[3]	Highly Erodible Water[7]	Highly Erodible Wind[8]
Port Byron silt loam, 6 to 12 percent slopes, moderately eroded	fine-silty	8.00	Well drained	15	Farmland of statewide importance	3e	No	No	No
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Tama-Dinsmore complex, 2 to 6 percent slopes	fine-silty	4.00	Well drained	13	All areas are prime farmland	2e	No	No	No
Tripoli silty clay loam, 0 to 2 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Barremills silt loam, drainageway, 1 to 5 percent slopes, occasionally flooded	fine-silty	3.00	Well drained	27	All areas are prime farmland	2e	No	No	No
Bassett-Kasson complex, 6 to 12 percent slopes, eroded	fine-loamy	8.00	Moderately well drained	7	Farmland of statewide importance	3e	No	No	No
Clyde silty clay loam, 0 to 3 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Clyde-Floyd complex, 1 to 4 percent slopes	fine-loamy	2.00	Poorly drained	23	Prime farmland if drained	2w	Yes	No	No
Coland-Spillville complex, 0 to 2 percent slopes, flooded	fine-loamy	1.00	Poorly drained	32	Not prime farmland	5w	Yes	No	No
Kasson silt loam, 2 to 6 percent slopes	fine-loamy	3.00	Moderately well drained	8	All areas are prime farmland	2e	No	No	No
Mantorville loam, 6 to 12 percent slopes, moderately eroded	fine-loamy over sandy or sandy-skeletal	9.00	Well drained	15	Farmland of statewide importance	3e	No	No	No
Marquis silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Moderately well drained	19	All areas are prime farmland	2e	No	No	No
Nasset-Winneshiek complex, 12 to 18 percent slopes, moderately eroded	fine-silty	15.00	Well drained	6	Not prime farmland	4e	No	Yes	No
Oran silt loam, 1 to 4 percent slopes	fine-loamy	3.00	Somewhat poorly drained	8	All areas are prime farmland	1	No	No	No
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Readlyn silt loam, 1 to 3 percent slopes	fine-loamy	2.00	Somewhat poorly drained	15	All areas are prime farmland	1	No	No	No
Tripoli silty clay loam, 0 to 2 percent slopes	fine-loamy	1.00	Poorly drained	18	Prime farmland if drained	2w	Yes	No	No
Winneshiek silt loam, 2 to 6 percent slopes	fine-loamy	4.00	Well drained	7	All areas are prime farmland	2e	No	No	No
Winneshiek silt loam, 6 to 12 percent slopes, moderately eroded	fine-loamy	8.00	Well drained	7	Farmland of statewide importance	3e	No	No	No

	Selected Soil Physical Features					Selected Soil Classifications				
Map Unit Name[3]	Particle Size Family[3]	Slope Range[4]	Drainage Class[5]	Topsoil Thickness (in)[6]	Prime Farmland[3]	Land Capability Classification[3]	Hydric Soil Rating[3]	Highly Erodible Water[7]	Highly Erodible Wind[8]	

olar lease but that are not anticipated to be disturbed during construction or operations.
ith the SSURGO spatial date in ArcGIS. Summations were performed in Microsoft Excel.
eospatial database.
from the SSURGO database. The SSURGO2 database provides representative slope values for all component soil series. Slope classes represent the slope class grouping in percent that contains the representative slope value for a major component soil
ithin the 0-5% slope range.
RGO database. ED, PD, and VPD indicate Excessively Drained, Poorly Drained, and Very Poorly Drained soils, respectively.
f the A horizons described in the SSURGO database.
ough 8e or that have a representative slope value greater than or equal to 9%.
d 2.
ed to very poorly drained soils in loamy sands and finer textural classes.
ength as indicated by engineering texture classification, drainage class, and slope. In general, soils on low slopes in wetter drainage classes, and comprised of sediments with low strength will have potential rutting hazards.
loam or coarser that are moderately well to excessively drained.

Appendix B

NRCS Soils Map for the Project

Byron Solar Project
Dodge and Olmsted Counties, Minnesota

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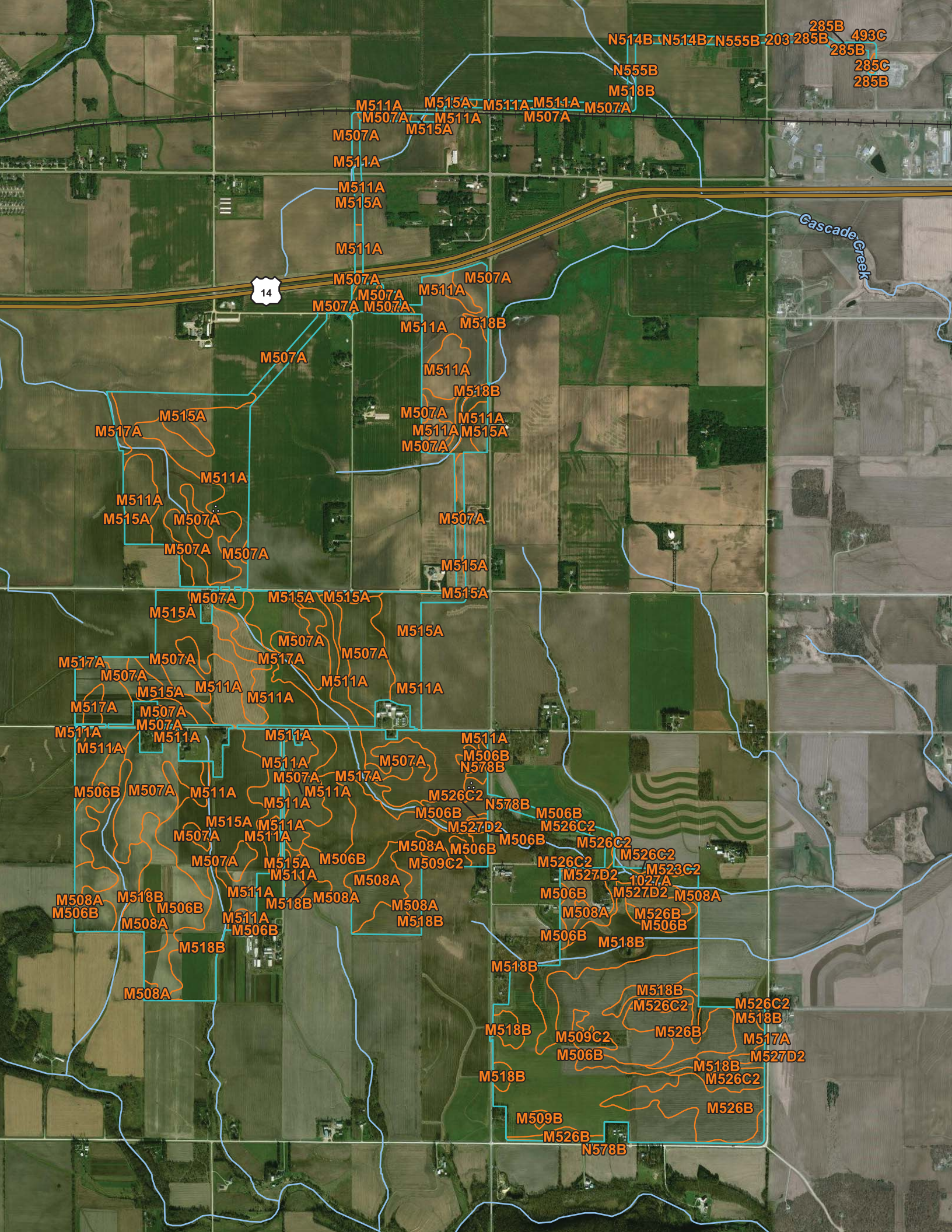
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N578B

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at scales ranging from 1:12,000 to 1:15,800.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dodge County, Minnesota
Survey Area Data: Version 17, Jun 5, 2020

Soil Survey Area: Olmsted County, Minnesota
Survey Area Data: Version 15, Jun 5, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 4, 2010—May 25, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1027A	Coland, frequently flooded-Spillville, occasionally flooded complex, 0 to 2 percent slopes	11.9	0.6%
M506B	Kasson silt loam, 2 to 6 percent slopes	368.4	19.9%
M507A	Marquis silt loam, 1 to 3 percent slopes	239.4	12.9%
M508A	Oran silt loam, 1 to 4 percent slopes	73.8	4.0%
M509B	Mantorville loam, 2 to 6 percent slopes	2.1	0.1%
M509C2	Mantorville loam, 6 to 12 percent slopes, moderately eroded	10.6	0.6%
M511A	Readlyn silt loam, 1 to 3 percent slopes	449.9	24.3%
M515A	Tripoli clay loam, 0 to 2 percent slopes	259.4	14.0%
M517A	Clyde silty clay loam, 0 to 3 percent slopes	74.7	4.0%
M518B	Clyde-Floyd complex, 1 to 4 percent slopes	184.6	10.0%
M523C2	Bassett-Kasson complex, 6 to 12 percent slopes, eroded	0.7	0.0%
M526B	Winneshiek silt loam, 2 to 6 percent slopes	106.6	5.8%
M526C2	Winneshiek silt loam, 6 to 12 percent slopes, moderately eroded	40.1	2.2%
M527D2	Nasset-Winneshiek complex, 12 to 18 percent slopes, moderately eroded	8.4	0.5%
N514B	Joy-Ossian, occasionally flooded, complex, 1 to 5 percent slopes	2.3	0.1%
N555B	Tama-Dinsmore complex, 2 to 6 percent slopes	8.7	0.5%
N578B	Barremills silt loam, drainageway, 1 to 5 percent slopes, occasionally flooded	3.2	0.2%
Subtotals for Soil Survey Area		**1,844.8**	**99.5%**
Totals for Area of Interest		**1,853.8**	**100.0%**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
176	Garwin silty clay loam	3.5	0.2%
203	Joy silt loam, 1 to 4 percent slopes	0.6	0.0%
285A	Port Byron silt loam, 0 to 2 percent slopes	0.9	0.0%
285B	Port Byron silt loam, 2 to 6 percent slopes	3.0	0.2%
285C	Port Byron silt loam, 6 to 12 percent slopes, moderately eroded	0.9	0.1%
493C	Oronoco loam, 6 to 12 percent slopes	0.0	0.0%
M517A	Clyde silty clay loam, 0 to 3 percent slopes	0.0	0.0%
Subtotals for Soil Survey Area		**9.0**	**0.5%**
Totals for Area of Interest		**1,853.8**	**100.0%**

Appendix C

Grading Heat Map

Byron Solar Project
Dodge and Olmsted Counties, Minnesota

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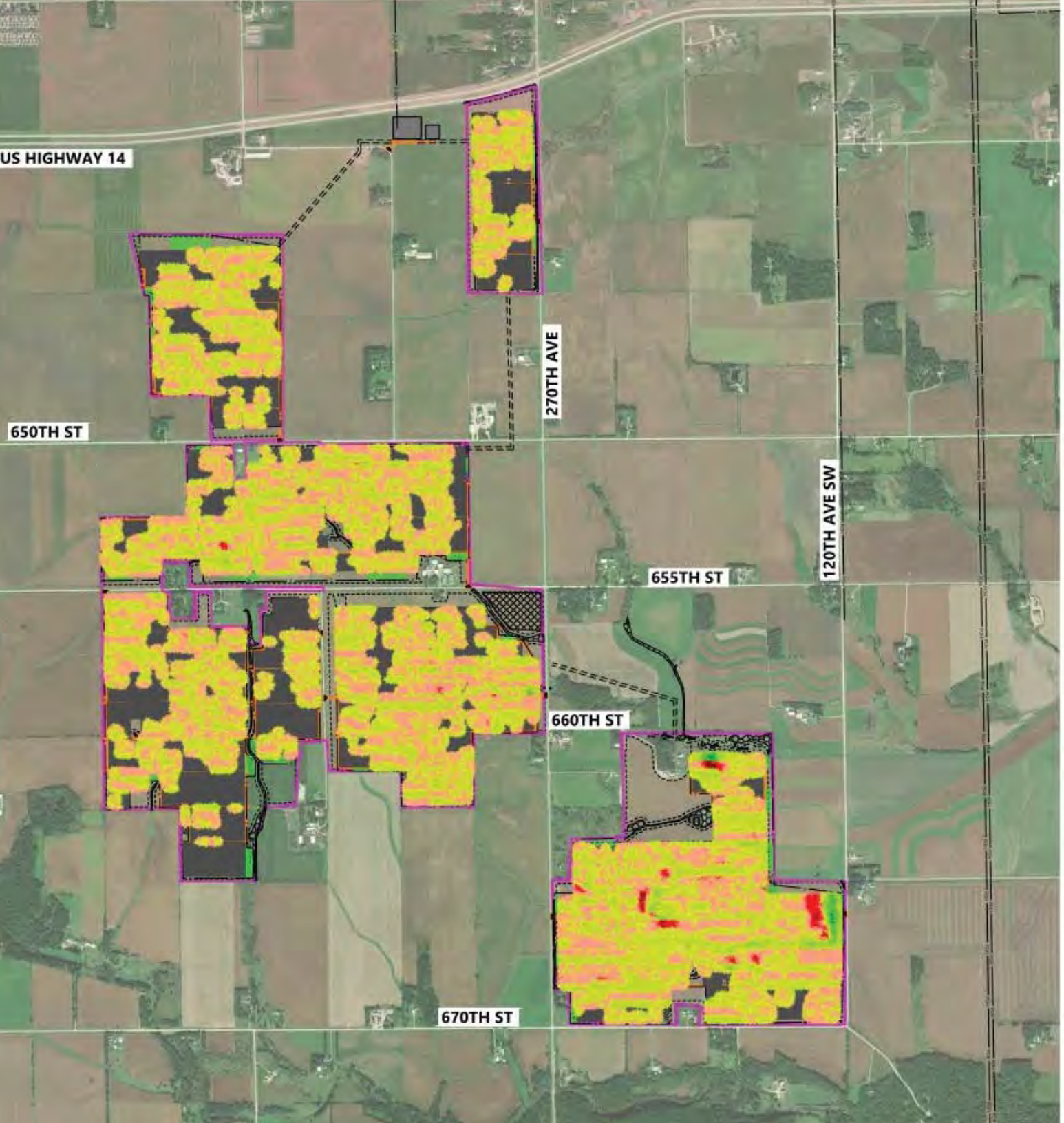

LEGEND:

- PROJECT BOUNDARY
- EX. OVERHEAD POWER
- EX. STREAM
- EX. WETLAND
- PROPOSED SOLAR ARRAY
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED HV OVERHEAD GEN-TIE LINE
- PROPOSED EASEMENT LINE
- PROPOSED SUBSTATION
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED WET SEDIMENTATION BASIN

PRELIMINARY CUT/FILL VOLUME COMPARISON

- 6' - 4' CUT
- 4' - 2' CUT
- 2' - 0' CUT
- 0' - 2' FILL
- 2' - 4' FILL
- 4' - 6' FILL
- 6' - 8' FILL

PROJECT QUANTITIES	
ITEM	QUANTITY
Solar Array Cut Volume	240,000 CY
Solar Array Fill Volume	240,000 CY
Grading Area	907 ACRES

- FOR ESTIMATING ONLY, ENGINEER MAKES NO GUARANTEE OF ACCURACY
- CUT/FILL QUANTITIES LISTED ARE RAW QUANTITIES AND DO NOT ACCOUNT FOR SITE EXCAVATIONS OR ANY UTILITY EXCAVATIONS. THE QUANTITIES SHOWN WERE DETERMINED USING THE ANTICIPATED GRADES AS SHOWN ON THE SITE PLAN AND ARE FOR ESTIMATING PURPOSES ONLY.
- *IN THE EVENT OF EXCESS CUT, QUANTITY TO BE SPREAD EVENLY OVER SITE
- PROJECT COORDINATE SYSTEM IS NAD83 MINNESOTA STATE PLANES, SOUTH ZONE, US FOOT
- 1.0' GRADING REVEAL WINDOW FOR ARRAY GRADING ASSUMES A 0.25' TOPOGRAPHY BUFFER ADDED TO MINIMUM REVEAL AND TOPOGRAPHY BUFFER SUBTRACTED FROM MAXIMUM REVEAL. THIS TAKES INTO ACCOUNT ANY MINOR VARIATIONS BETWEEN TOPOGRAPHY USED FOR THE ANALYSIS AND THE FIELD TOPOGRAPHY FOR CONSTRUCTION
- 12% MAX SLOPE FOR NORTH FACING SLOPES

Byro
Dodge C

G

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