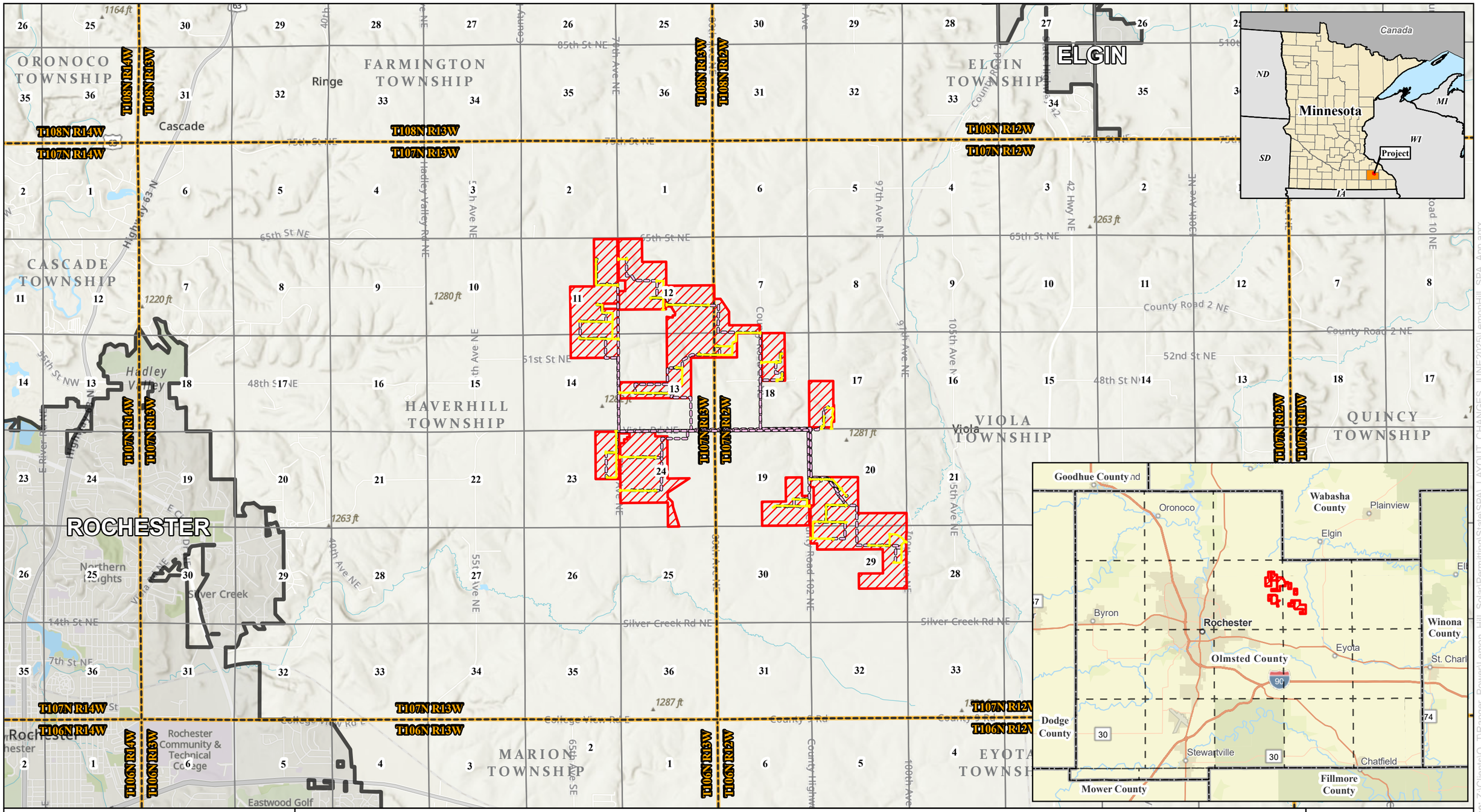
Figures



LEMON HILL SOLAR
A RANGER POWER PROJECT
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Figure 1 - Project Location
Lemon Hill Solar Project

Lemon Hill Solar, LLC
Olmsted County, Minnesota

- Site
- Proposed Access Road
- Proposed Collector Line
- Township Boundary
- Section Line
- Municipal Boundary

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

Date: (6/25/2025)

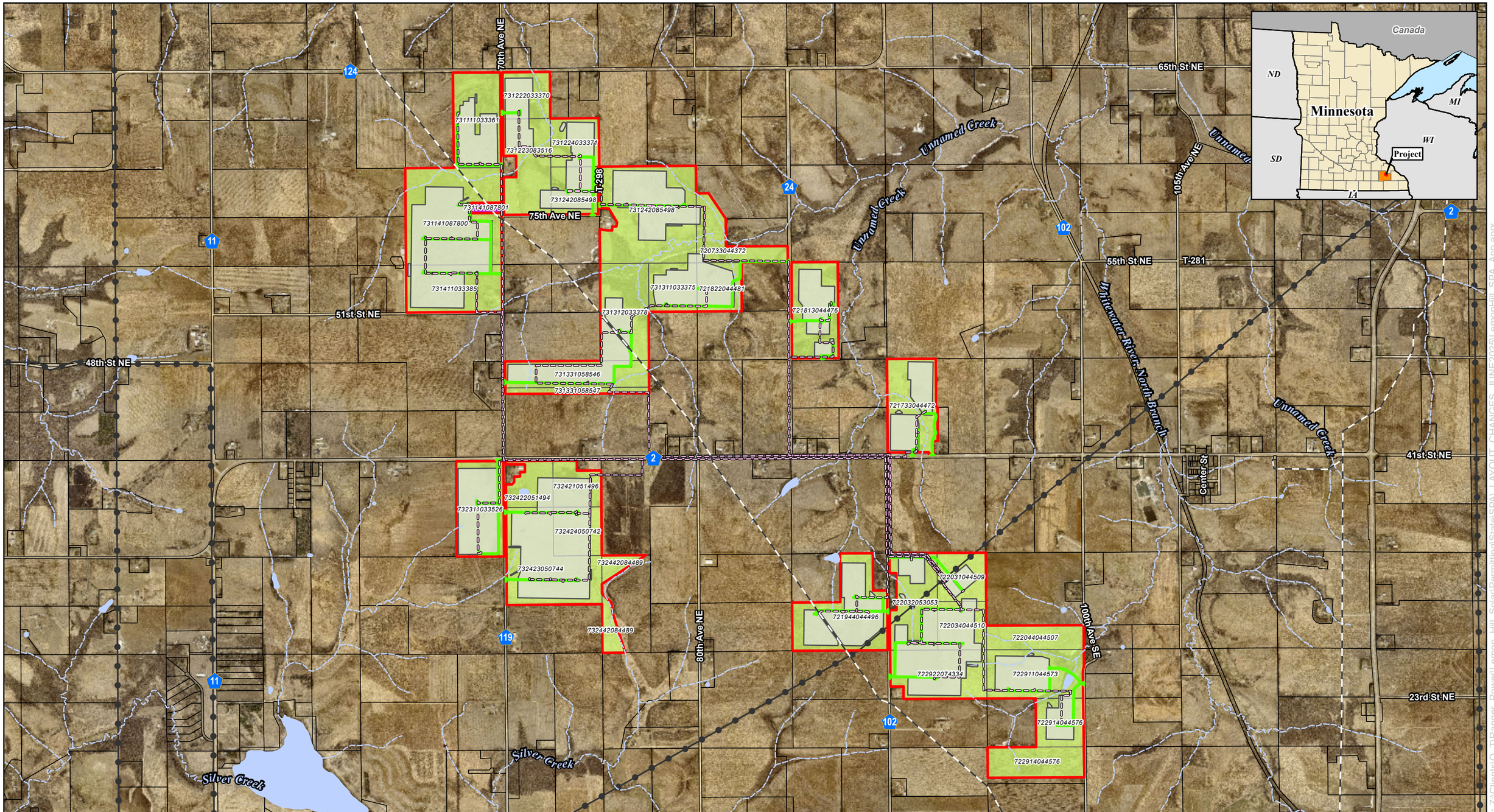

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Figure 2 - Land Rights and Preliminary Development Area
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

- Site
- Participating Landowner
- Non-Participating Landowner
- Preliminary Development Area
- Parcel Boundary
- Proposed Collector Line
- Proposed Access Road
- Lake, Pond or Reservoir (MDNR)
- River or Stream (MDNR)
- Existing Transmission Line
- Existing Pipeline

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

Date: (6/25/2025)

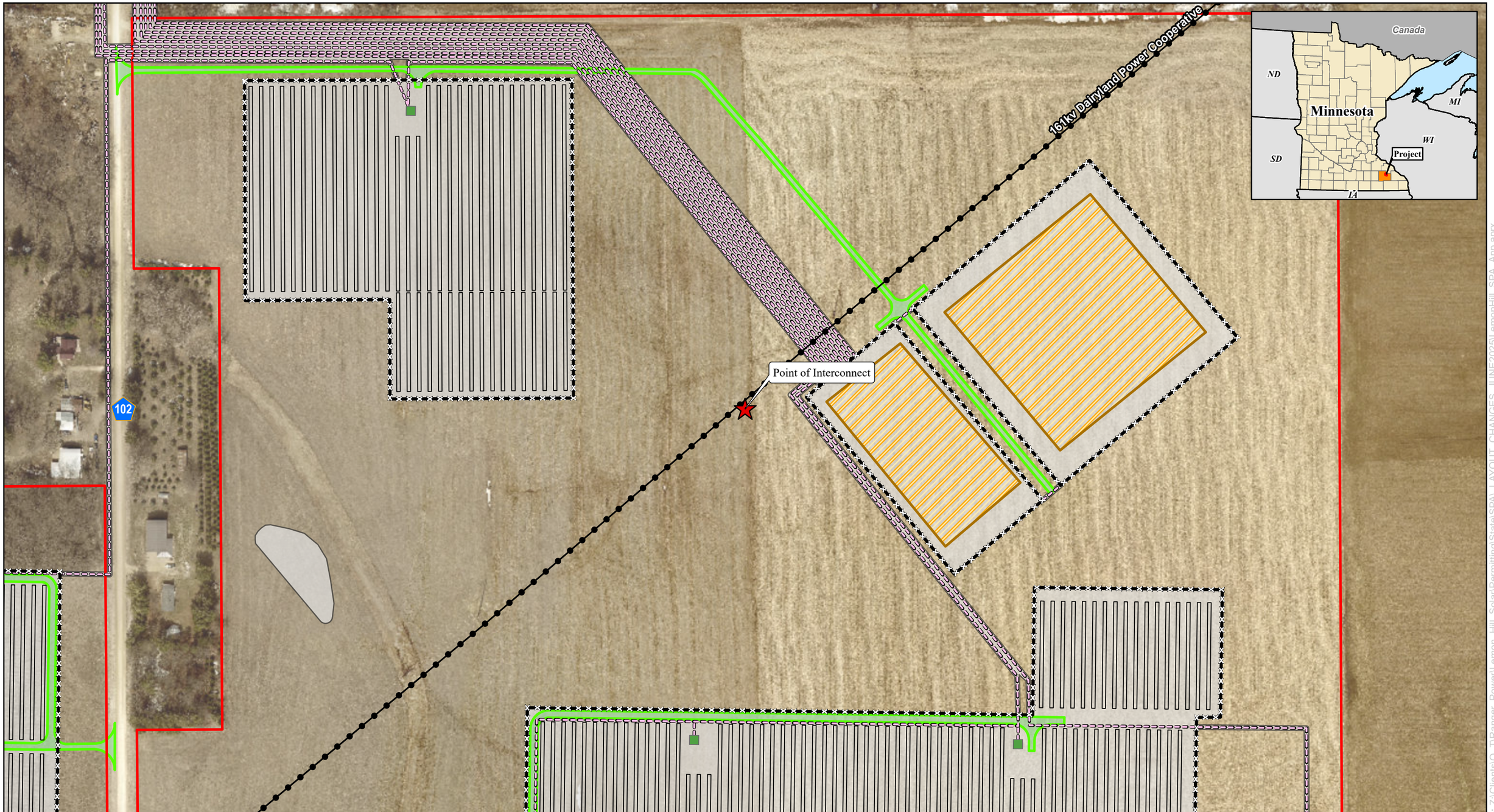

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Figure 3 - Project Interconnect Facilities
Lemon Hill Solar Project
Lemon Hill Solar, LLC
Olmsted County, Minnesota

- Point of Interconnect
- Proposed Solar Panel
- Proposed Substation
- Proposed Access Road
- Proposed Inverter
- Site
- Preliminary Development Area
- Proposed Collector Line
- Fence Line
- Existing 161kV Transmission Line

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

Date: (6/25/2025)

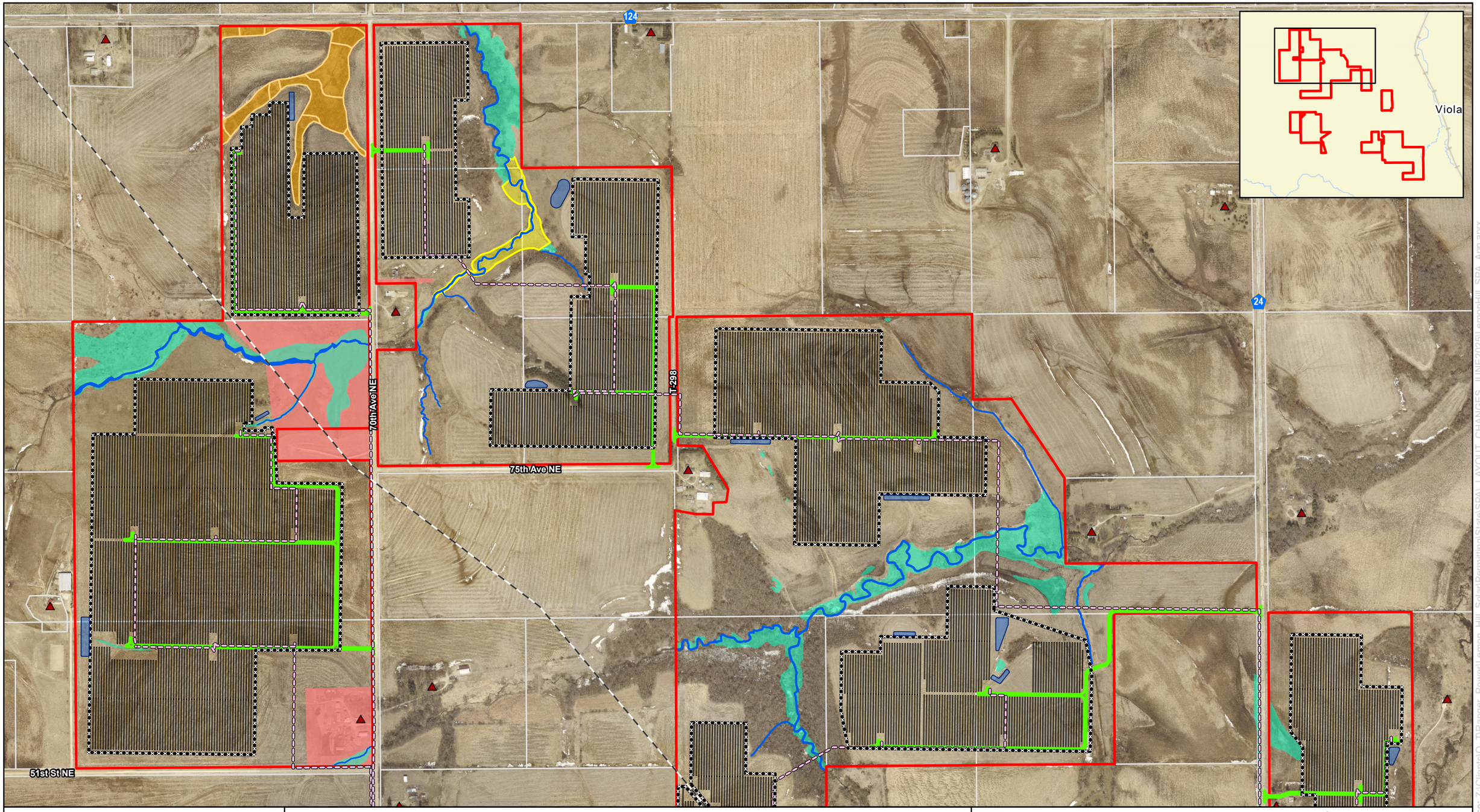

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Figure 4 - Preliminary Facility Design
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

Page 1 of 5

- Site
- Proposed Substation
- Proposed Solar Panel
- Proposed Access Road
- Proposed Stormwater Pond
- Proposed Collector Line
- Proposed Fence Line
- Point of Interconnect
- Existing Transmission Line
- Existing Pipeline
- Delineated Waterway
- Desktop Wetland
- Delineated Wetland
- MDNR River or Stream
- NWI Wetland

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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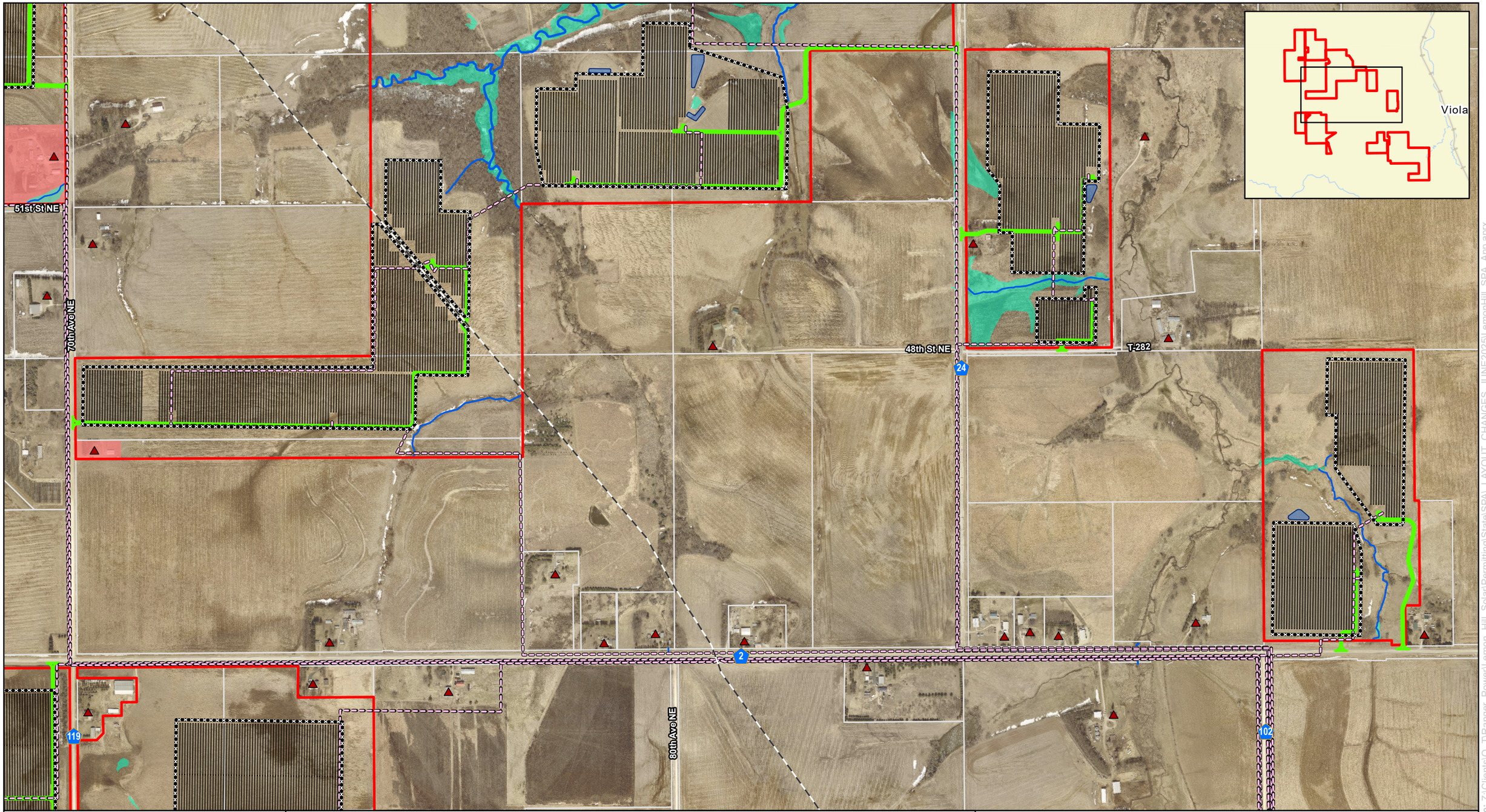

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Figure 4 - Preliminary Facility Design
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

- Site
- Proposed Substation
- Proposed Solar Panel
- Proposed Access Road
- Proposed Stormwater Pond
- Proposed Collector Line
- Proposed Fence Line
- Point of Interconnect
- Existing Transmission Line
- Existing Pipeline
- Delineated Waterway
- Desktop Wetland
- Delineated Wetland
- MDNR River or Stream
- NWI Wetland

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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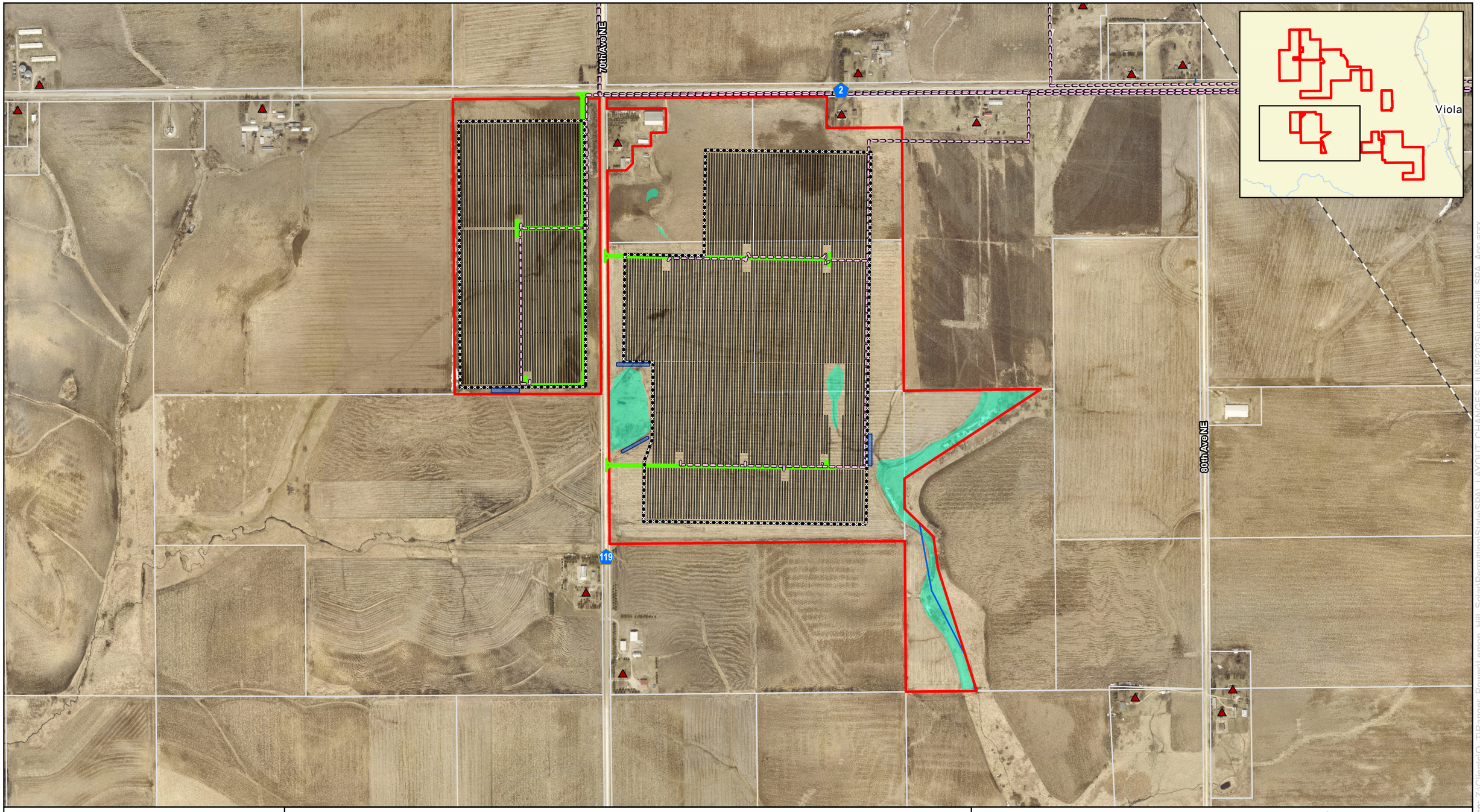

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Figure 4 - Preliminary Facility Design
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

Page 3 of 5

- Site
- Proposed Substation
- Proposed Solar Panel
- Proposed Access Road
- Proposed Stormwater Pond
- Proposed Collector Line
- Proposed Fence Line
- Point of Interconnect
- Existing Transmission Line
- Existing Pipeline
- Delineated Waterway
- Desktop Wetland
- Delineated Wetland
- MDNR River or Stream
- NWI Wetland

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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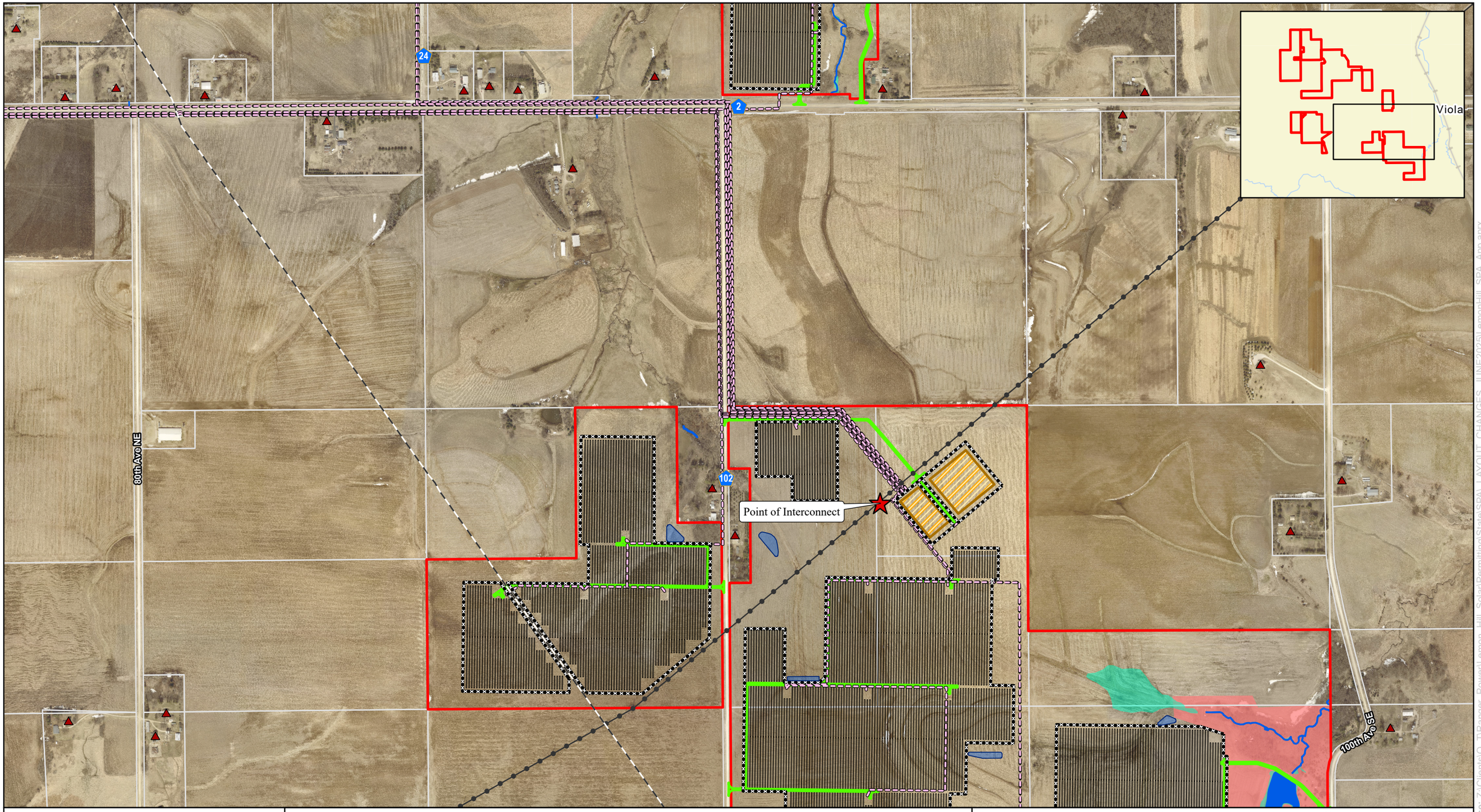

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Figure 4 - Preliminary Facility Design
Lemon Hill Solar Project

Lemon Hill Solar, LLC
Olmsted County, Minnesota

Page 4 of 5

- Site
- Proposed Substation
- Proposed Solar Panel
- Proposed Access Road
- Proposed Stormwater Pond
- Proposed Collector Line
- Proposed Fence Line
- Point of Interconnect
- Existing Transmission Line
- Existing Pipeline
- Delineated Waterway
- Desktop Wetland
- Delineated Wetland
- MDNR River or Stream
- NWI Wetland

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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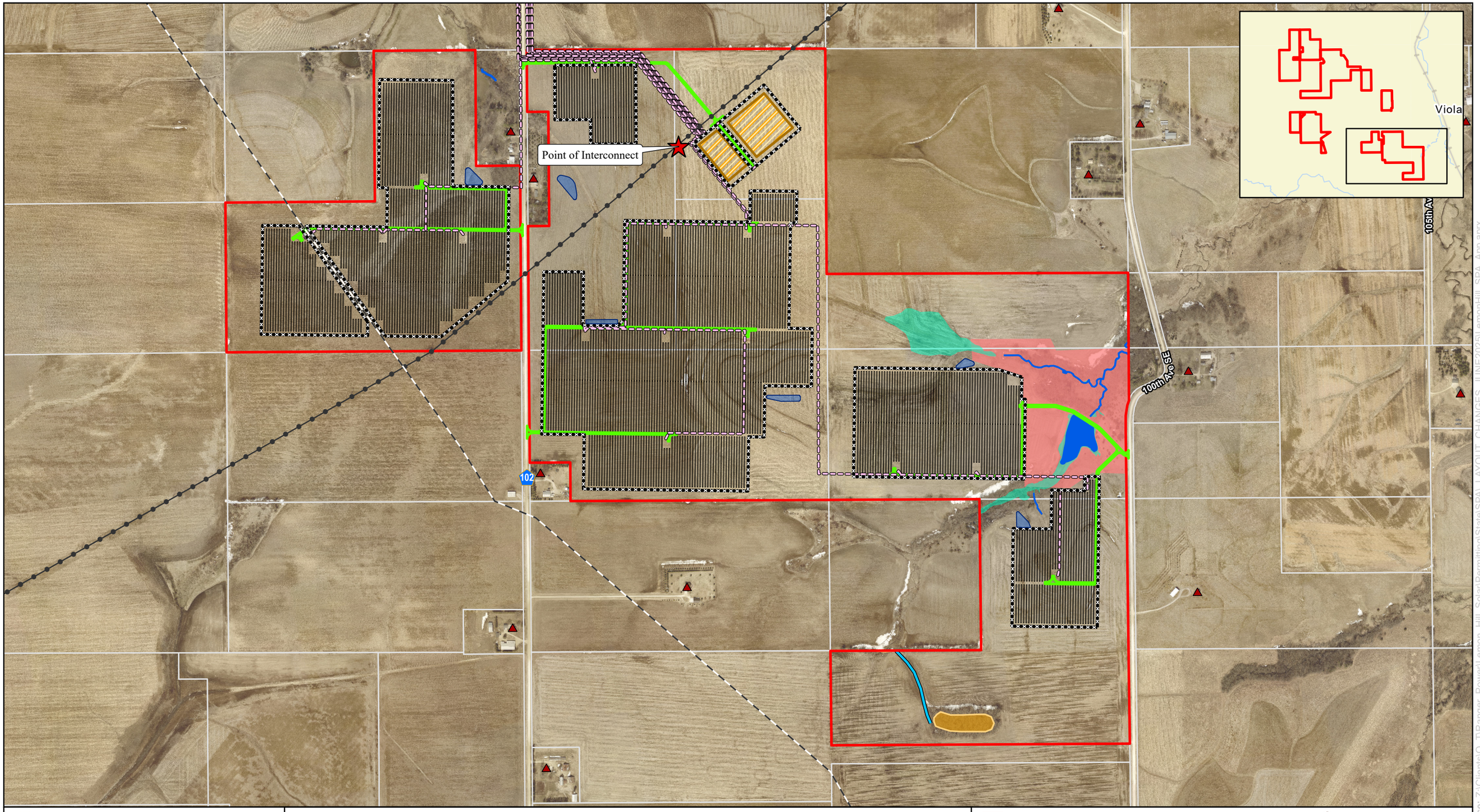

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Figure 4 - Preliminary Facility Design
Lemon Hill Solar Project

Lemon Hill Solar, LLC
Olmsted County, Minnesota

Page 5 of 5

- Site
- Proposed Substation
- Proposed Solar Panel
- Proposed Access Road
- Proposed Stormwater Pond
- Proposed Collector Line
- Proposed Fence Line
- Point of Interconnect
- Existing Transmission Line
- Existing Pipeline
- Delineated Waterway
- Desktop Wetland
- Delineated Wetland
- MDNR River or Stream
- NWI Wetland

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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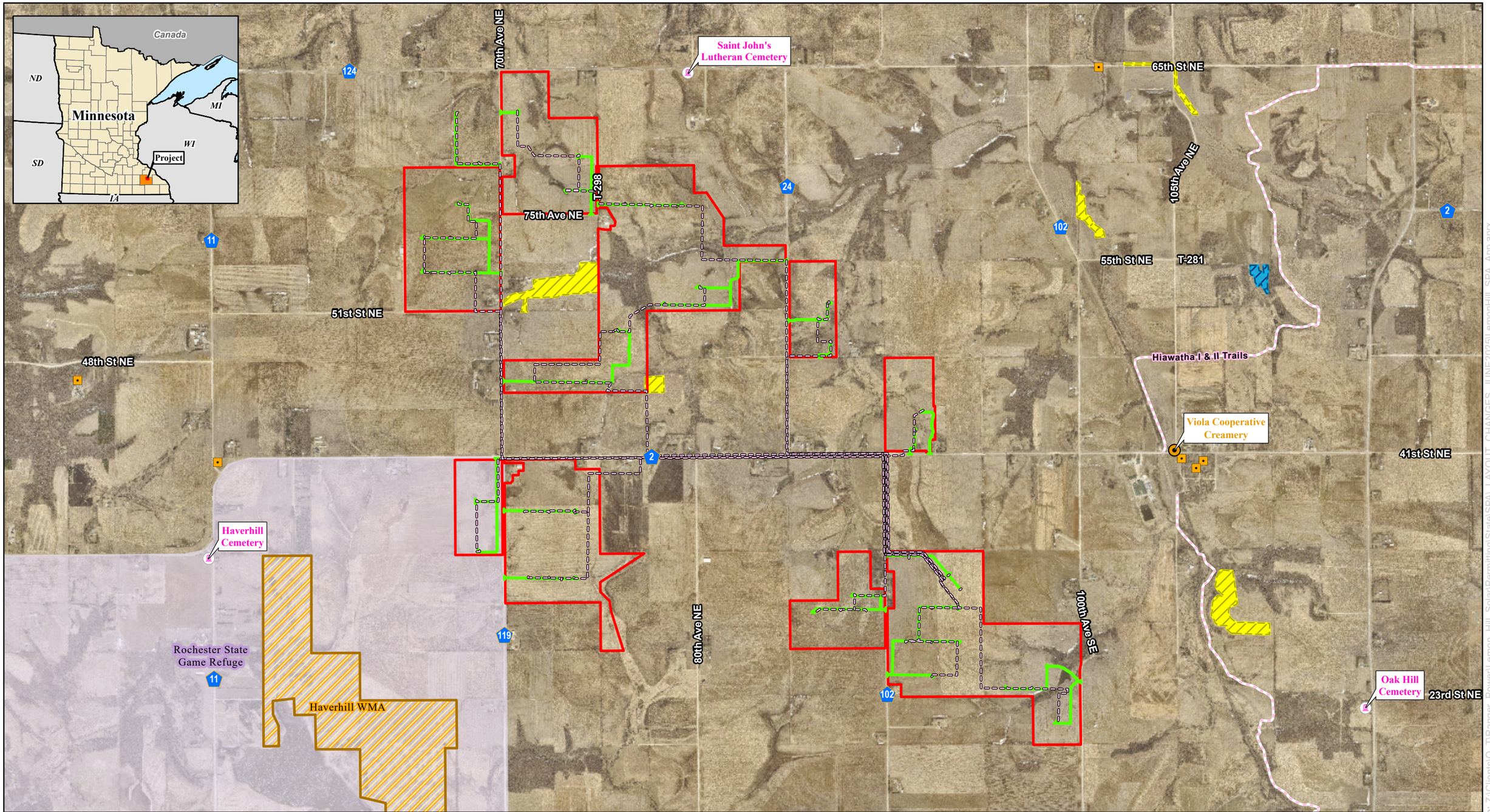

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Figure 5 - Prohibited and Exclusion Sites
Lemon Hill Solar Project

Lemon Hill Solar, LLC
Olmsted County, Minnesota

- Site
- Proposed Access Road
- Proposed Collector Line
- Rochester State Game Refuge
- Wildlife Management Areas (WMA) - Publicly Accessible
- Snowmobile Trail
- State Historic Site
- National Historic Building
- Historic Cemetery

Minnesota Board of Water and Soil Conservation Easement

- CREP II Easement
- RIM Easement

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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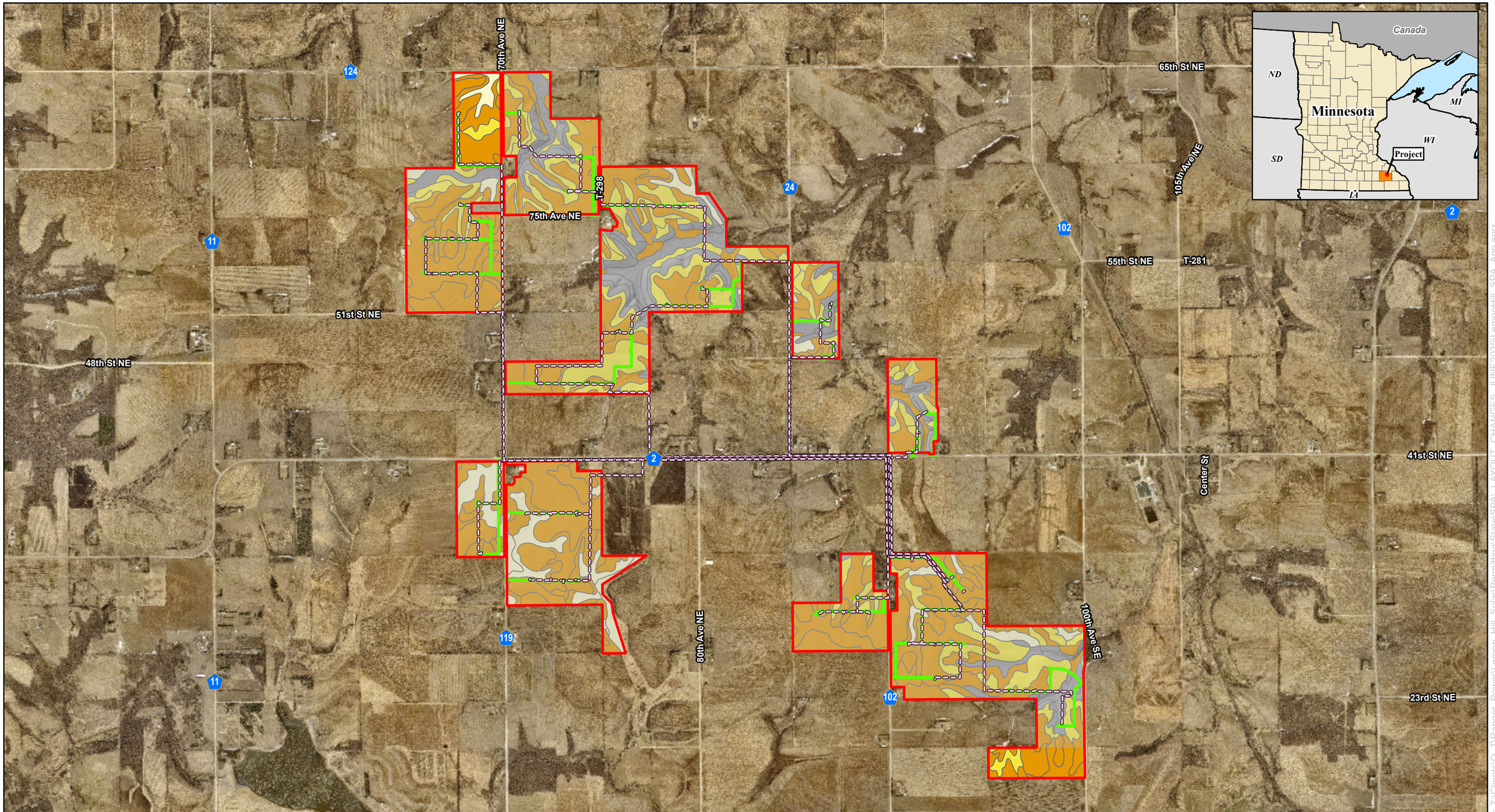

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Figure 6 - Prime Farmland
Lemon Hill Solar Project

Lemon Hill Solar, LLC
Olmsted County, Minnesota

Site
Proposed Access Road
Proposed Collector Line

Farmland Classification

All areas are prime farmland
Farmland of statewide importance
Prime farmland if drained
Not prime farmland

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

Date: (6/25/2025)

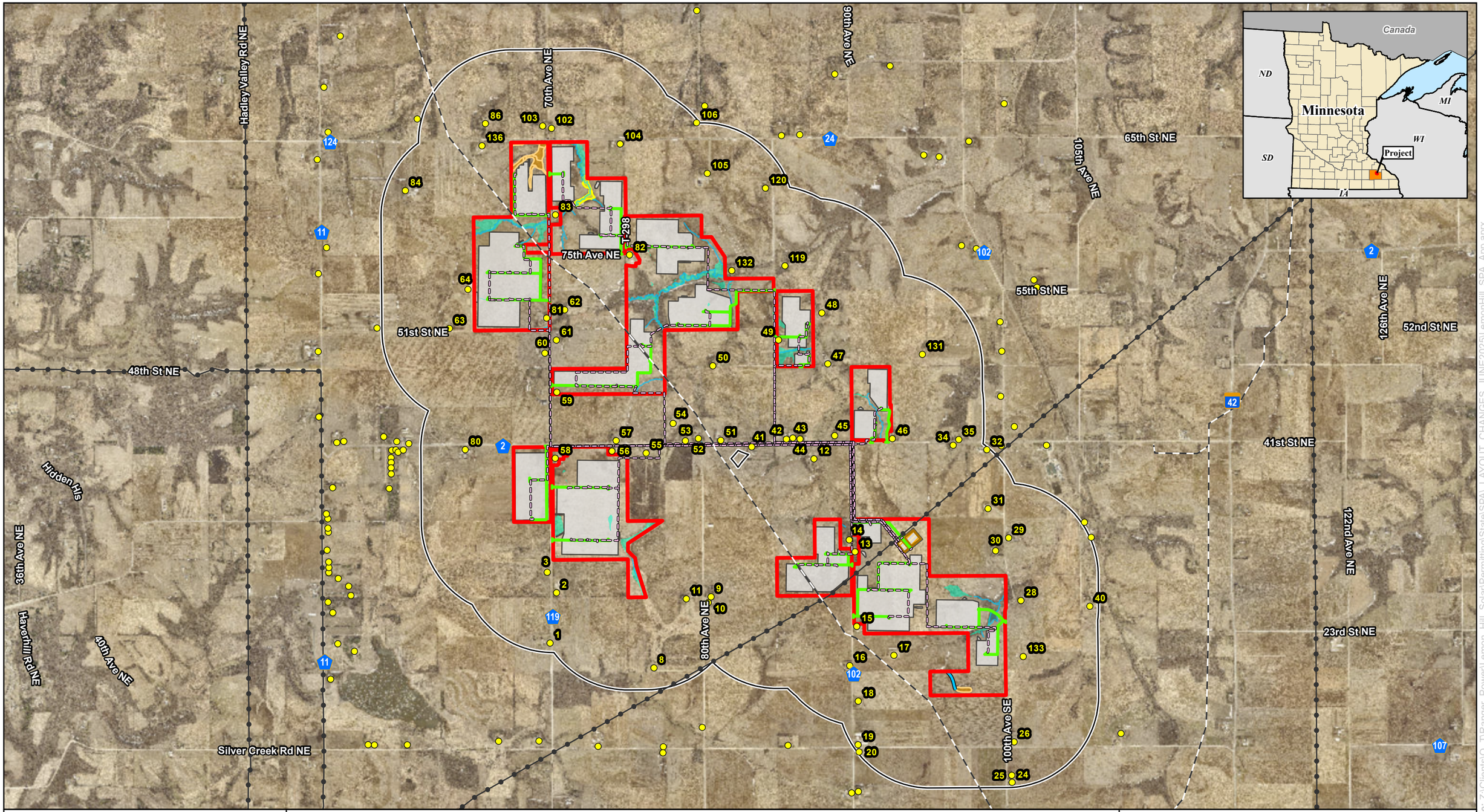

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Figure 7 - Residences and Farmsteads in Project Vicinity
Lemon Hill Solar Project

Lemon Hill Solar, LLC
Olmsted County, Minnesota

- Site
- Proposed Access Road
- Proposed Collector Line
- Proposed Substation
- Preliminary Development Area
- 3,200ft Buffer
- Residence/Farmstead
- Existing Transmission Line
- Existing Pipeline
- Delineated Waterway
- Desktop Wetland
- Delineated Wetland
- MDNR River or Stream *
- NWI Wetland

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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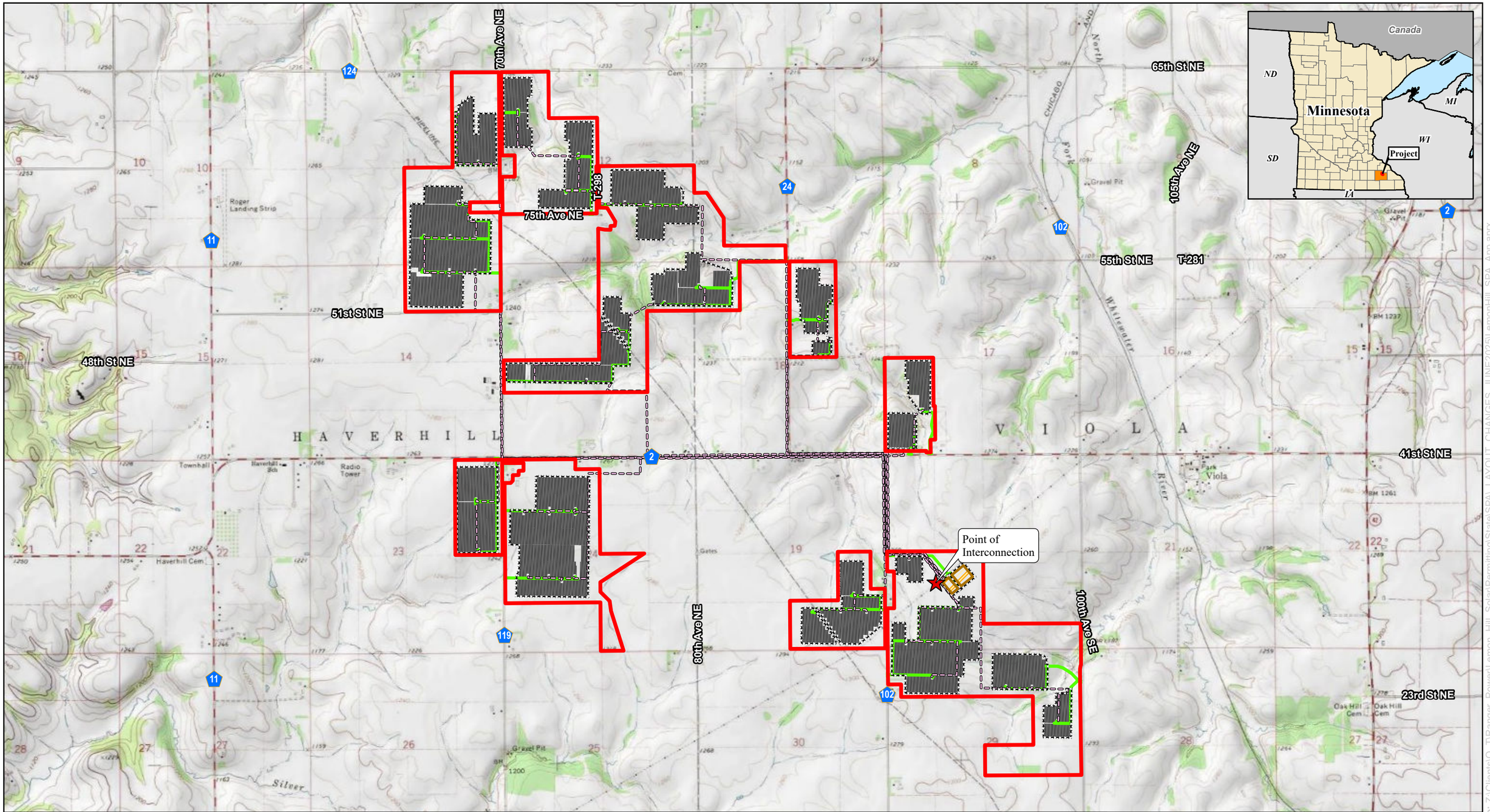

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Figure 8 - Topographic Map
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

- Point of Interconnection
- Site
- Proposed Access Road
- Proposed Substation
- Proposed Solar Panel
- Fence Line
- Proposed Solar Panel
- Proposed Collector Line

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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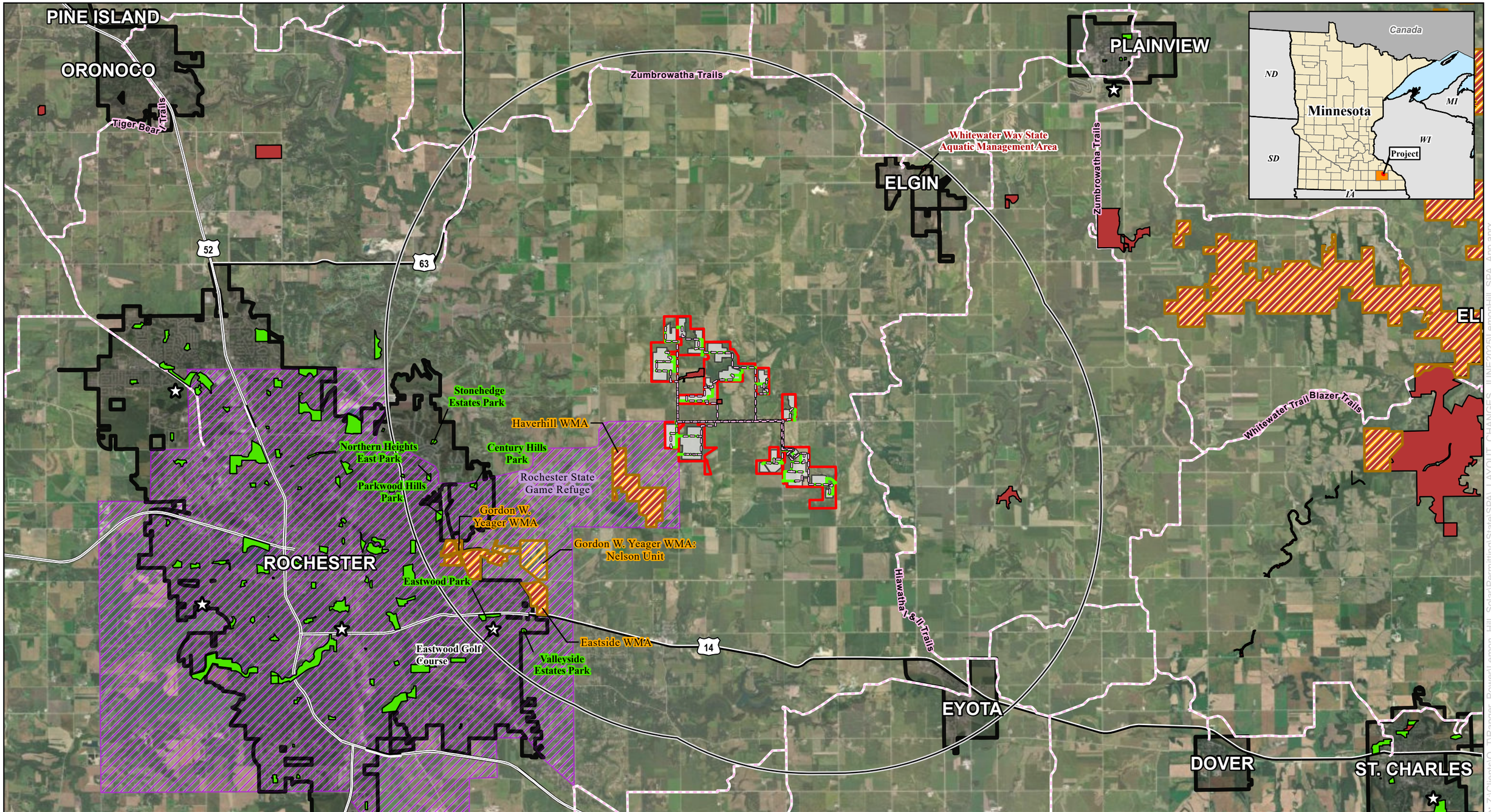

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Figure 9 - Recreational Resources
Lemon Hill Solar Project
Lemon Hill Solar, LLC
Olmsted County, Minnesota

- Site
- Proposed Access Road
- Preliminary Development Area
- Proposed Collector Line
- 5-mile Buffer
- Municipal Boundary
- Golf Course
- Snowmobile Trail
- Wildlife Management Areas (WMA) - Publicly Accessible
- Rochester State Game Refuge

Public Lands (Ownership)

- Local Land
- State Land

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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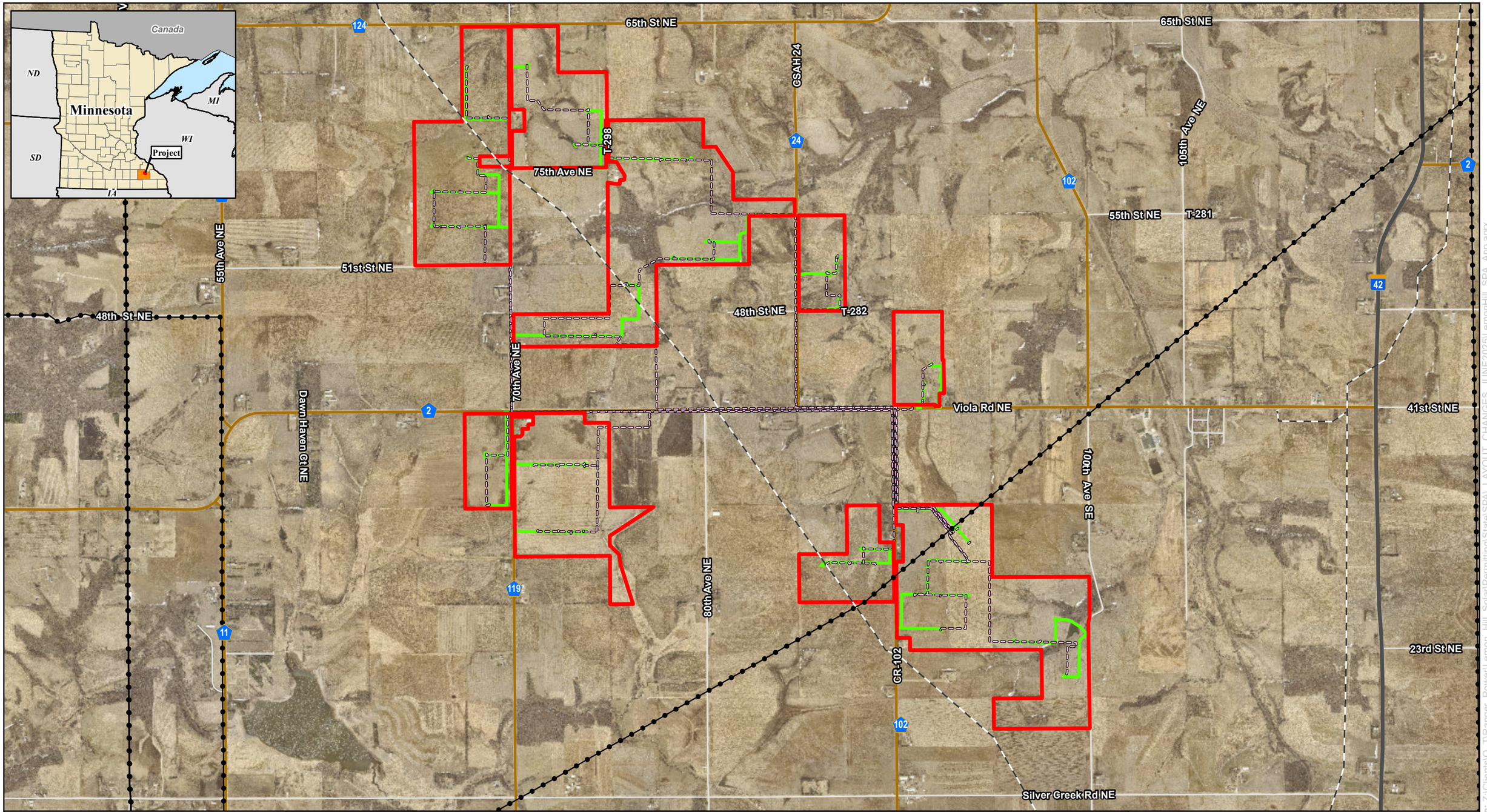

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Figure 10 - Public Services, Utilities, and Transportation
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

- Site
- Proposed Access Road
- Proposed Collector Line
- Existing Transmission Line
- Existing Pipeline
- State Highway
- County Road
- Local Road

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

Date: (6/25/2025)

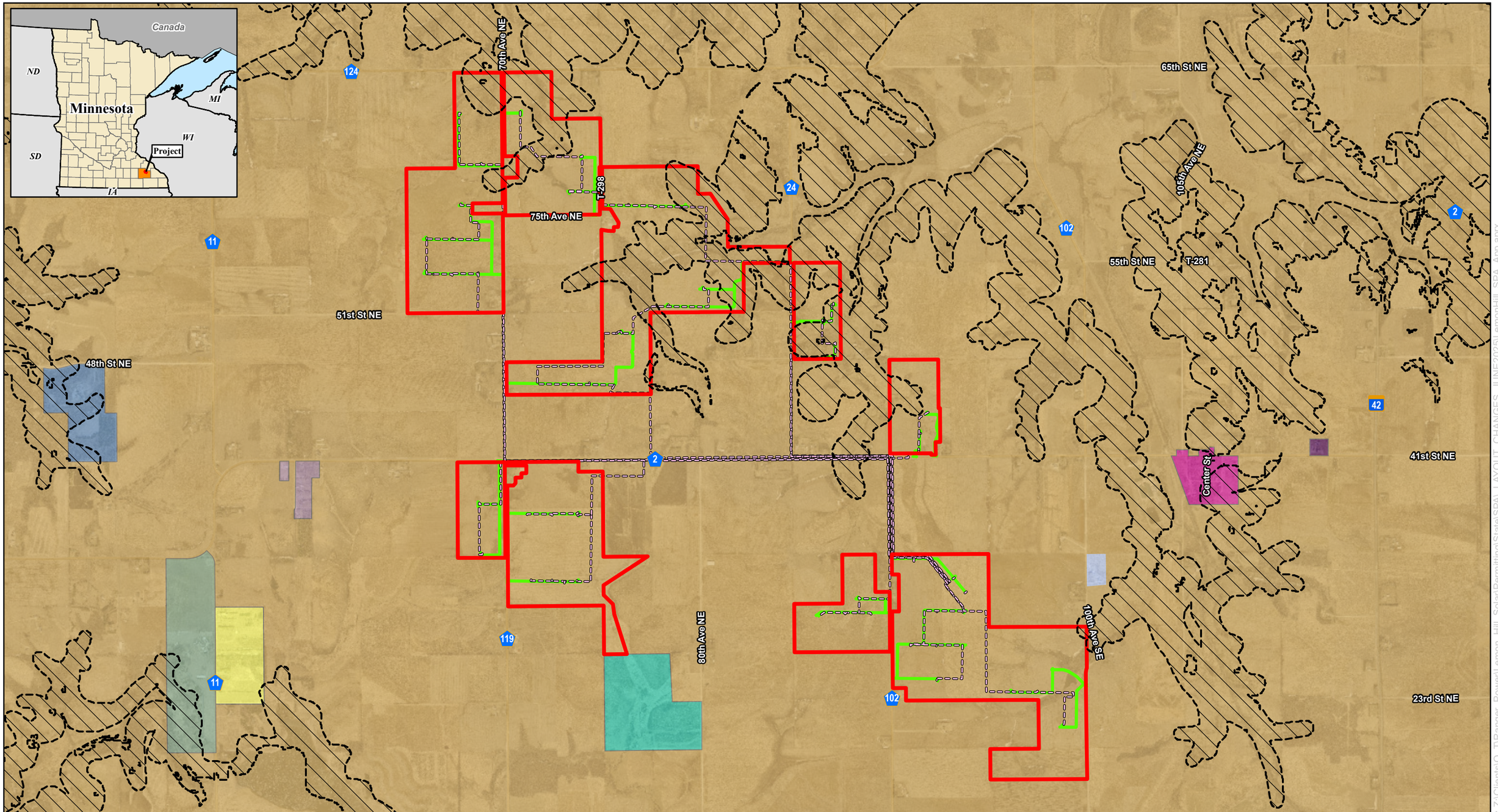

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Figure 11 - Zoning
Lemon Hill Solar Project
Lemon Hill Solar, LLC
Olmsted County, Minnesota

- Site
- Proposed Access Road
- Proposed Collector Line
- Decorah Edge

Olmsted County Zoning

- Agricultural/Resource Commercial District – Land Intensive Low
- Agricultural Protection District
- Agricultural Residential Cluster District
- Industrial District
- Medical Institution District
- Low Density Residential District
- Rural Residential District
- Rural Service District
- Service District

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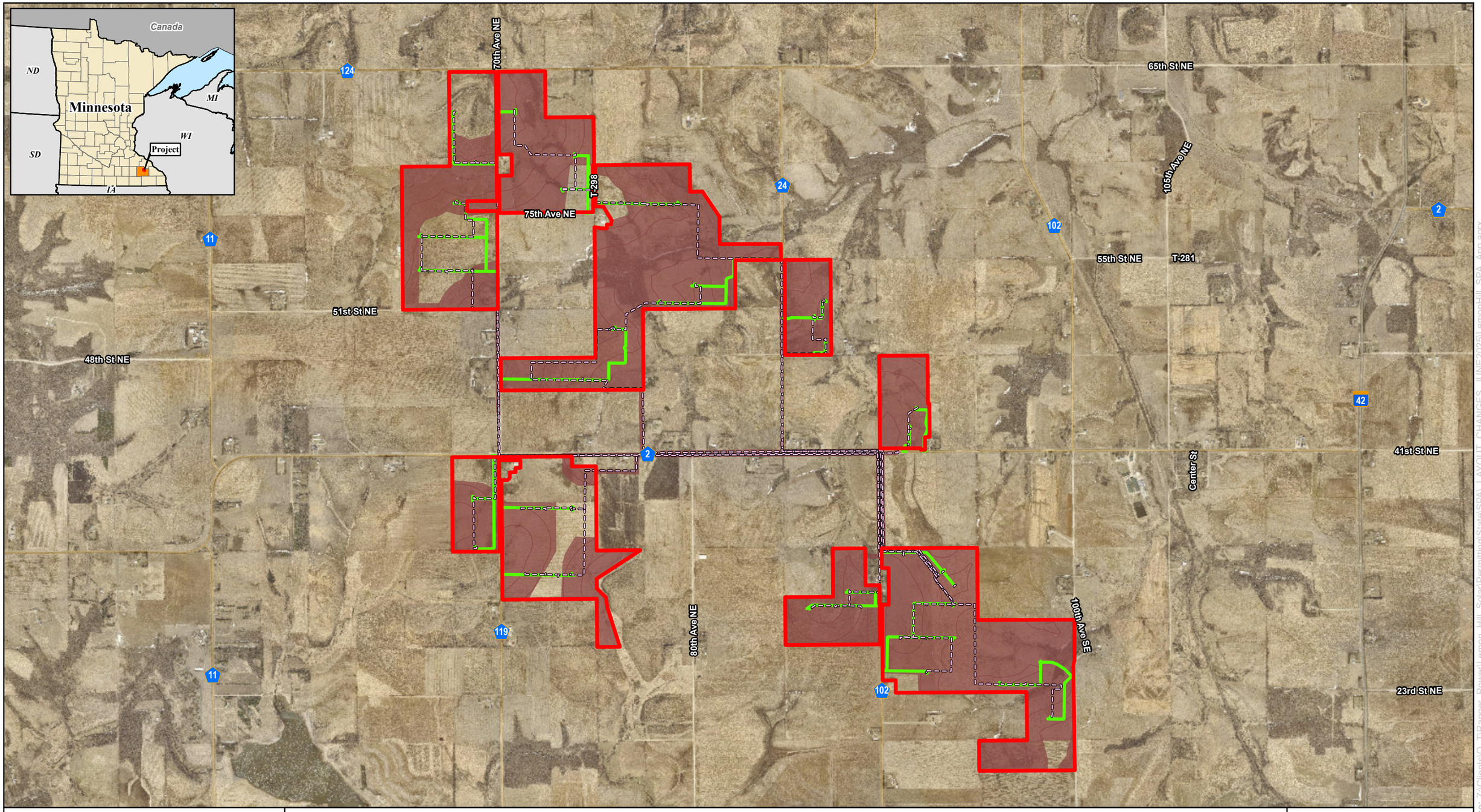

LEMON HILL SOLAR
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Figure 12 - Archaeological Survey
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

- Site
- Proposed Access Road
- Proposed Collector Line
- Archaeological Survey Coverage

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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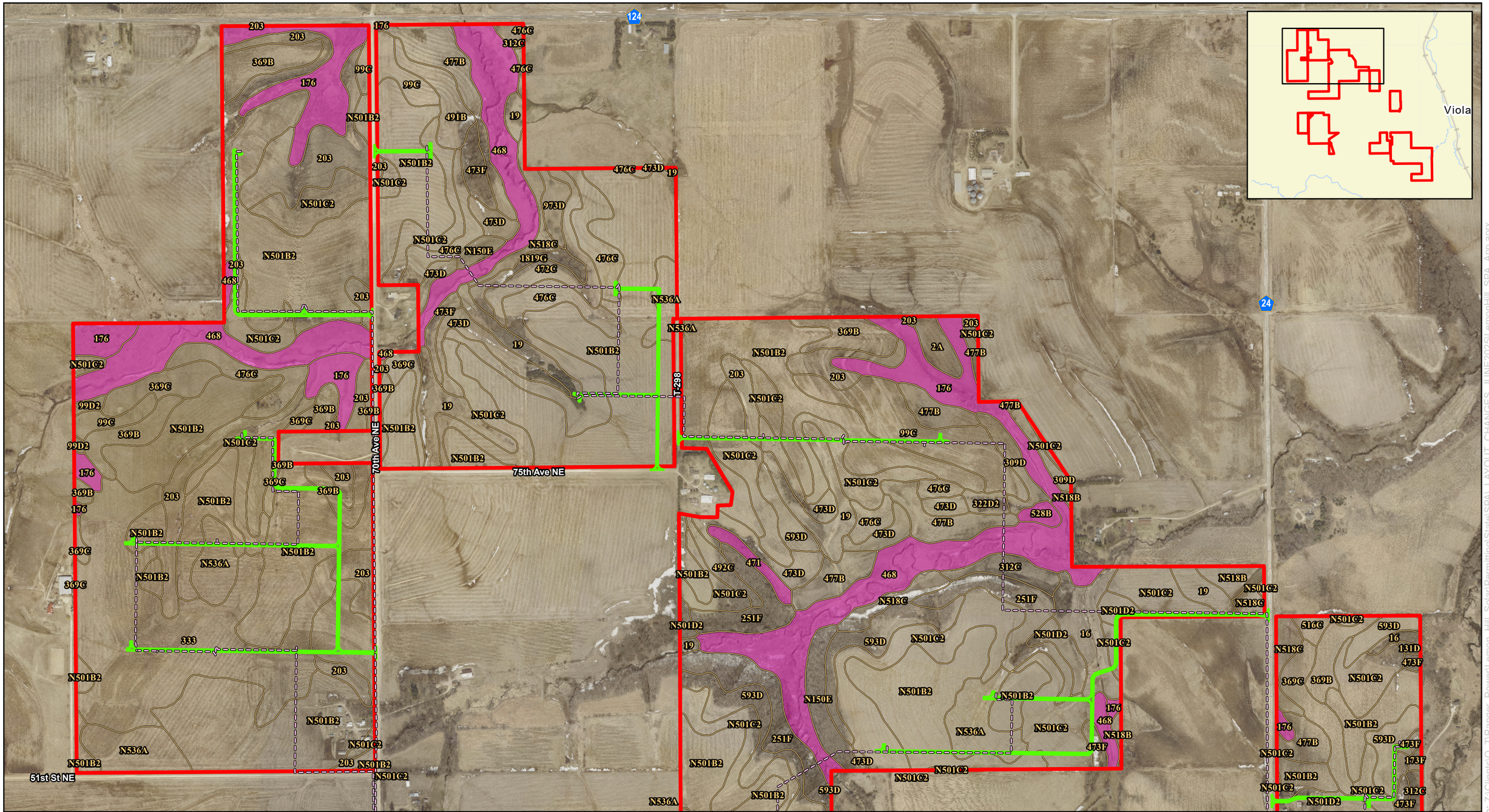

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Figure 13 - Hydric Soils
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

- Site
- Proposed Access Road
- Proposed Collector Line
- SSURGO Soil Unit

Soil Hydric Classification

- Predominantly Hydric
- Non-Hydric (<15%)

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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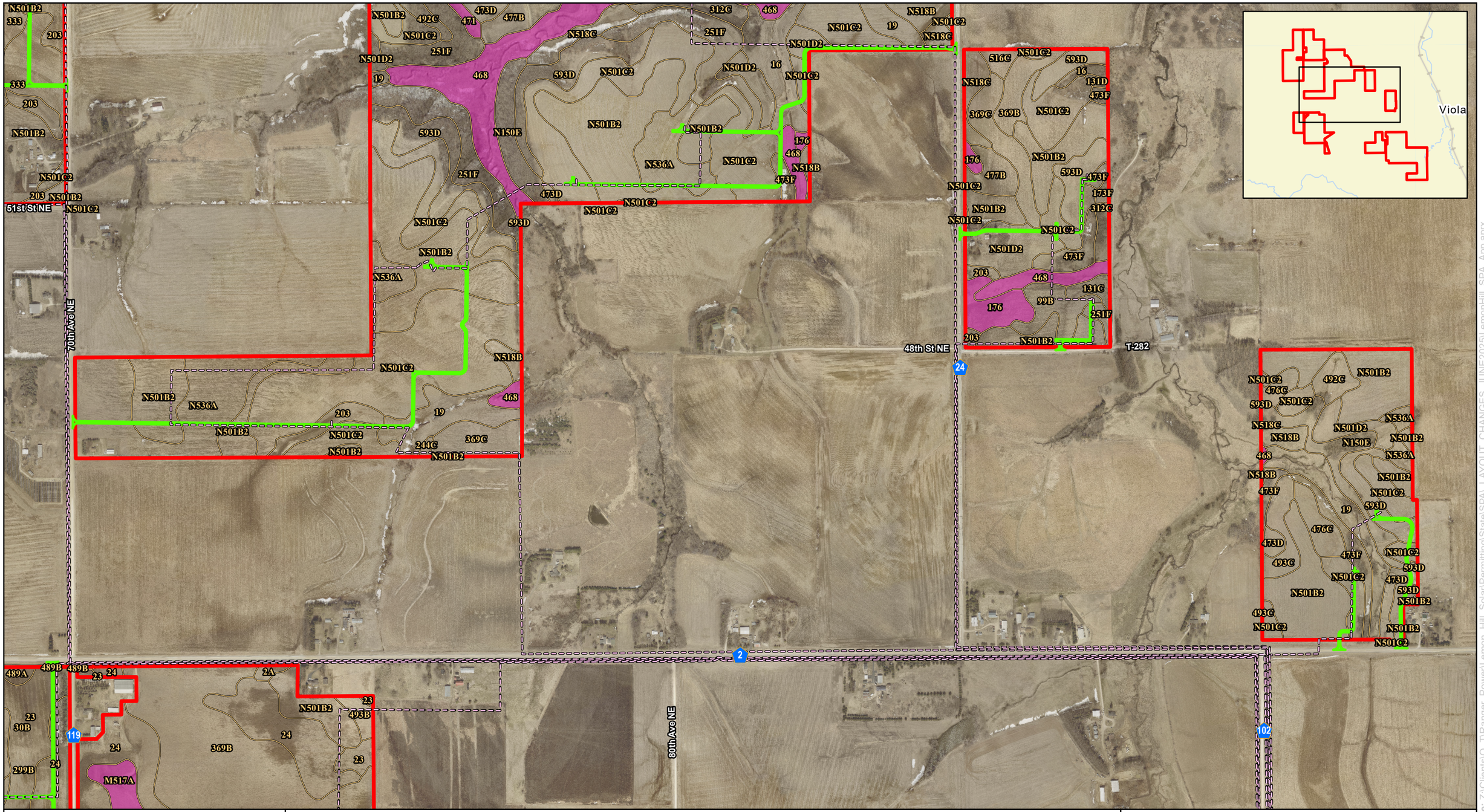

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Figure 13 - Hydric Soils
Lemon Hill Solar Project
Lemon Hill Solar, LLC
Olmsted County, Minnesota

Page 2 of 5

Site
Proposed Access Road
Proposed Collector Line
SSURGO Soil Unit

Soil Hydric Classification
Predominantly Hydric
Non-Hydric (<15%)

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx
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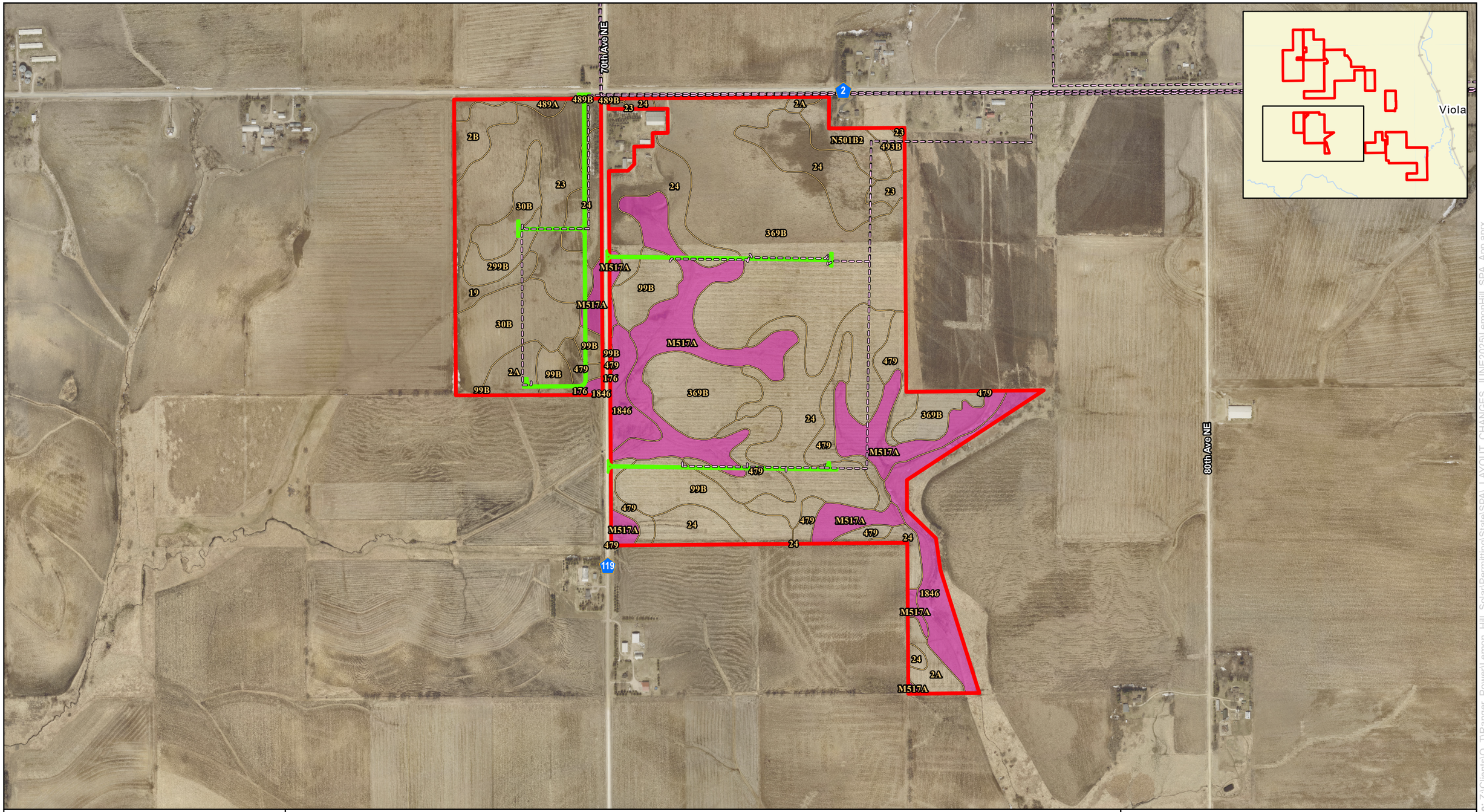

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Figure 13 - Hydric Soils
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

Site

Proposed Access Road

Proposed Collector Line

SSURGO Soil Unit

Soil Hydric Classification

Predominantly Hydric

Non-Hydric (<15%)

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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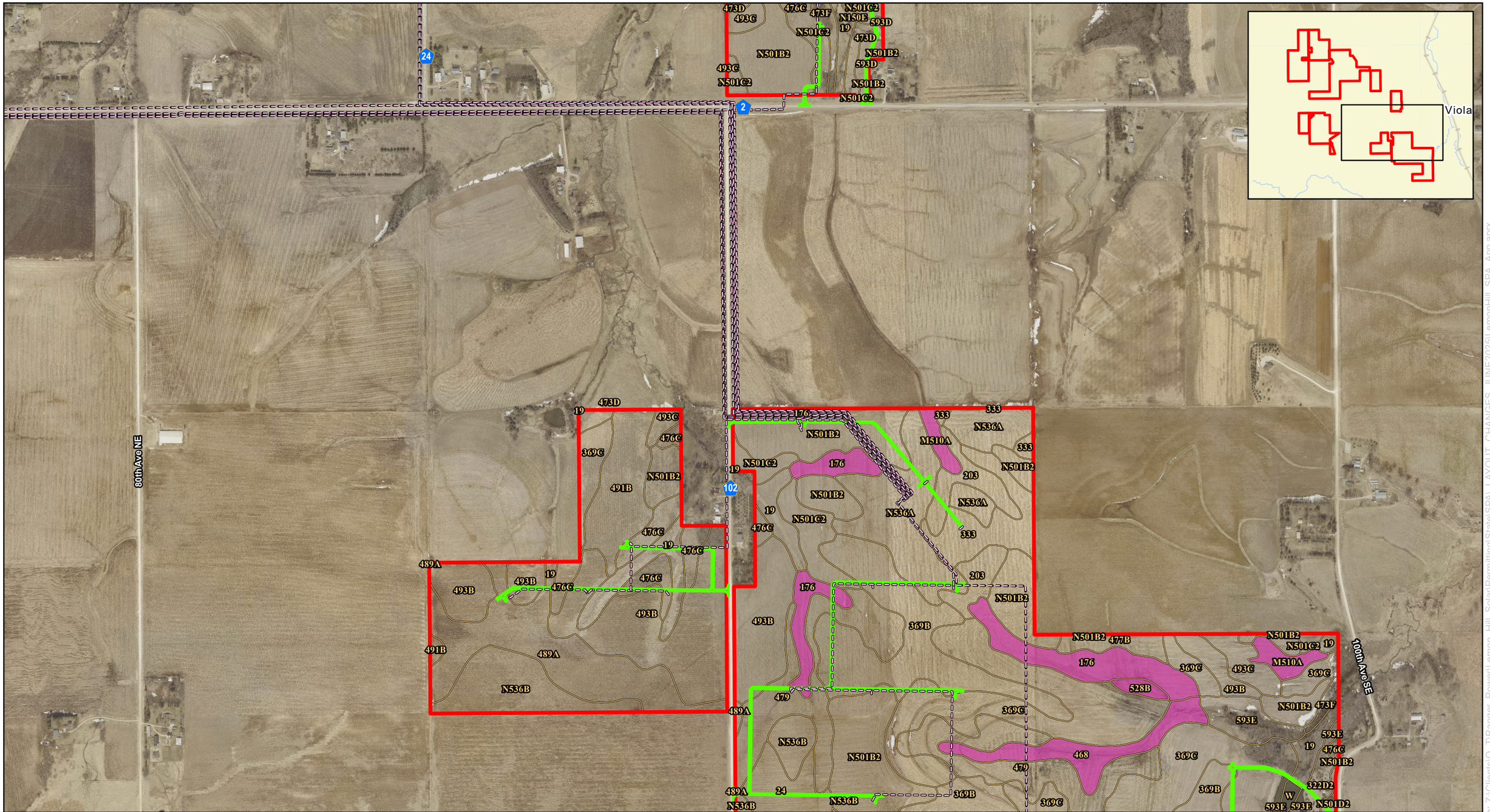

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For Environmental Review Purposes Only

Figure 13 - Hydric Soils
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

Site

Proposed Access Road

Proposed Collector Line

SSURGO Soil Unit

Soil Hydric Classification

Predominantly Hydric

Non-Hydric (<15%)

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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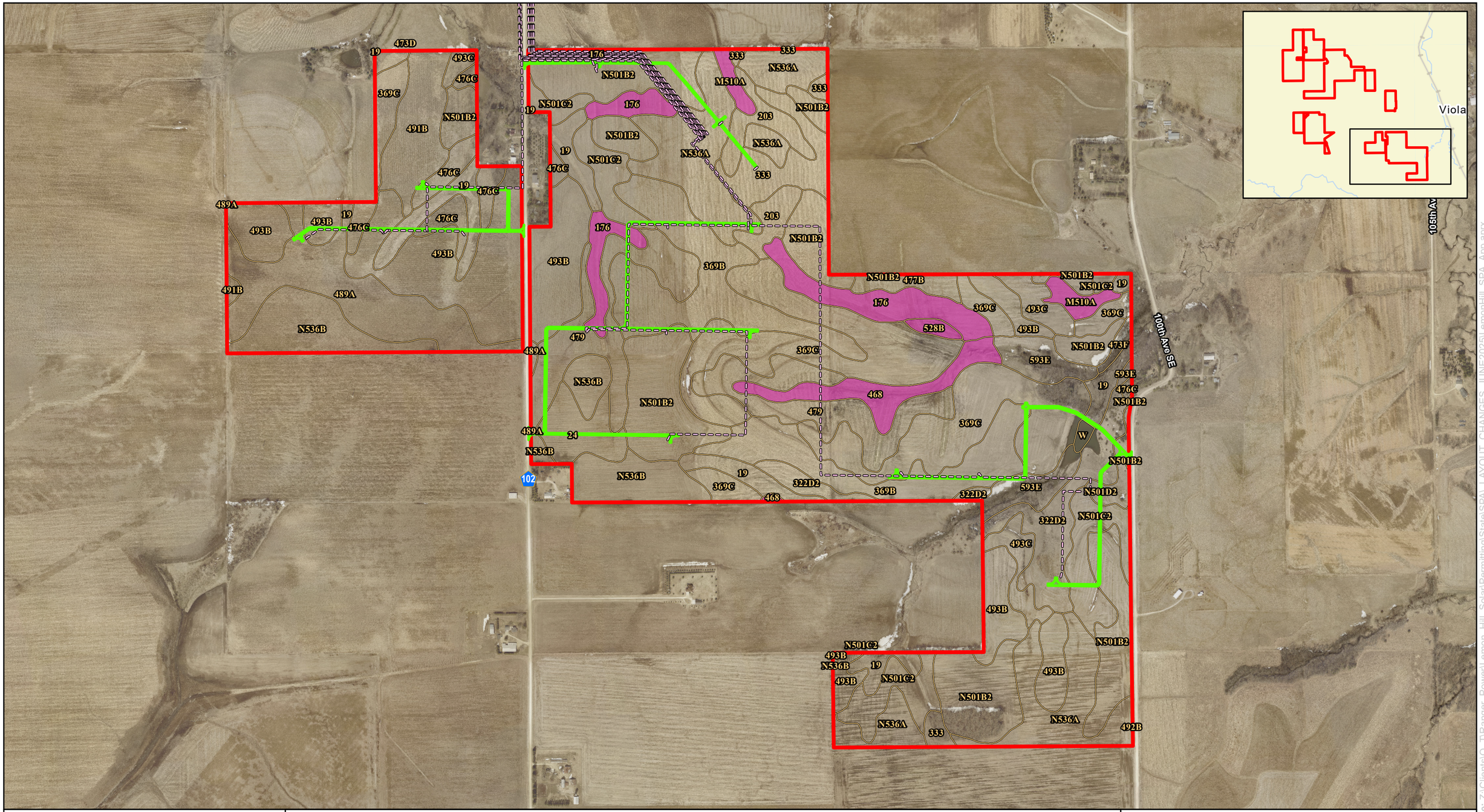

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Figure 13 - Hydric Soils
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

- Site
- Proposed Access Road
- Proposed Collector Line
- SSURGO Soil Unit

Soil Hydric Classification

- Predominantly Hydric
- Non-Hydric (<15%)

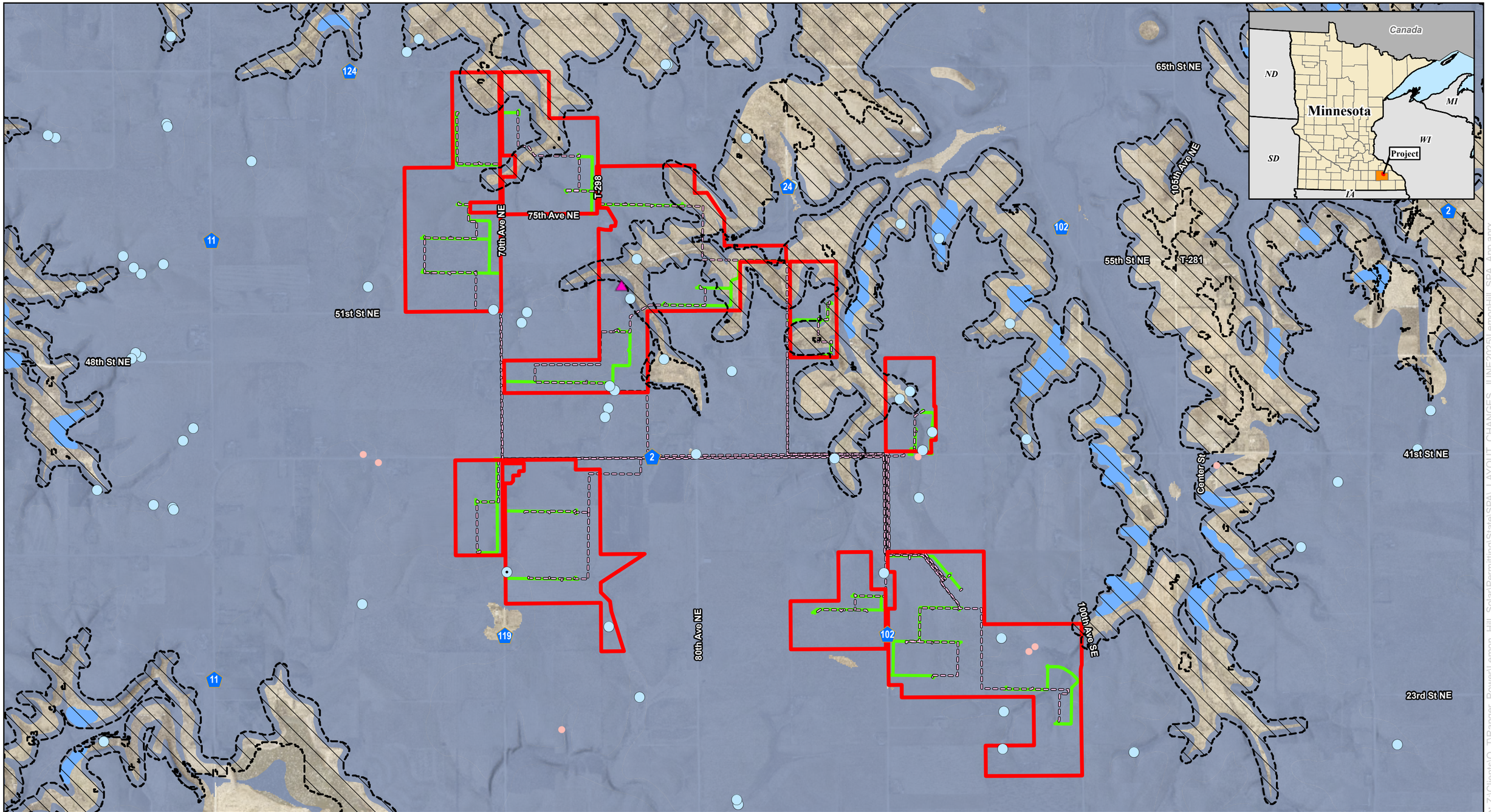

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Figure 14 - Geological Features
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

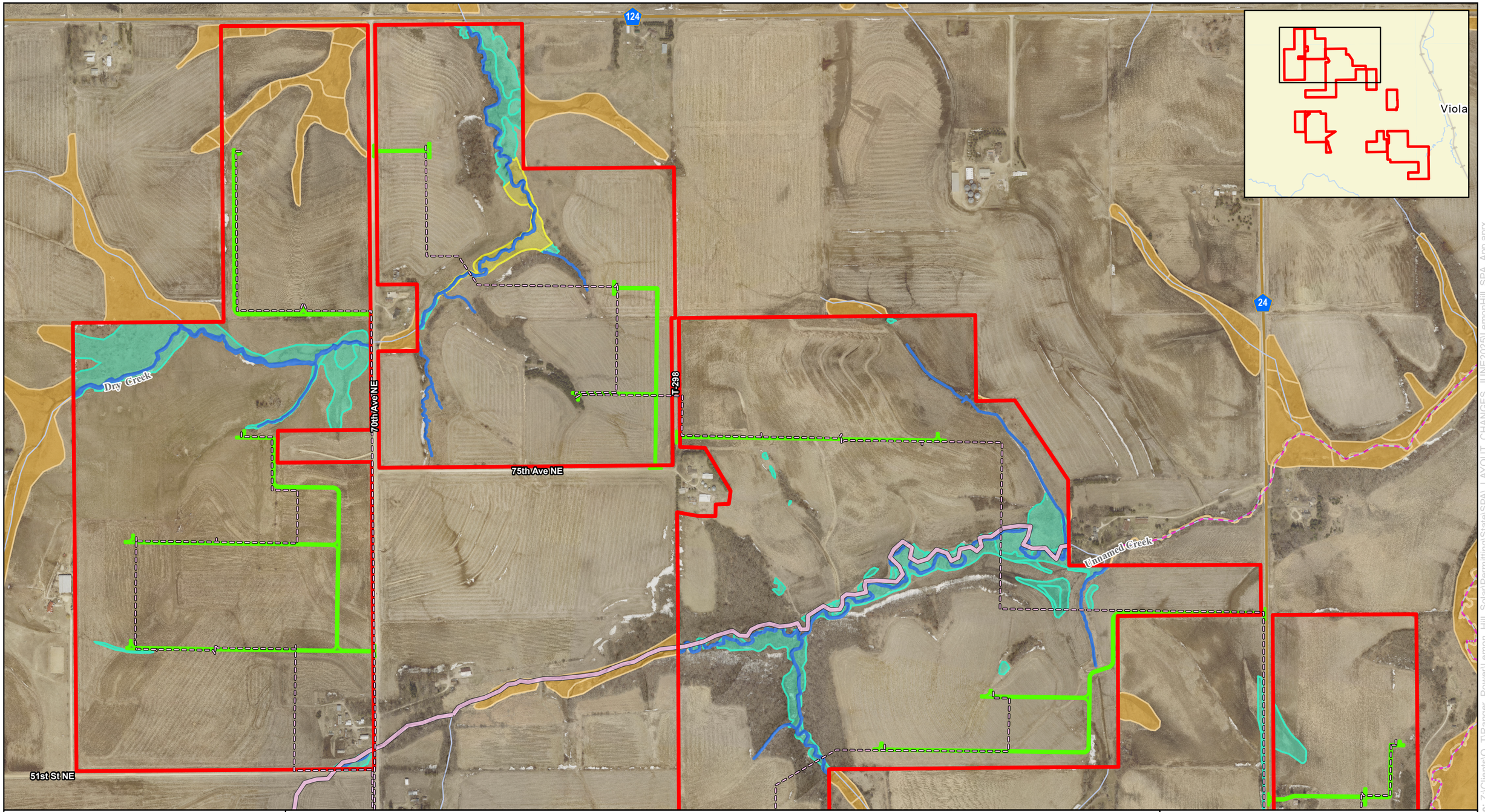
- Site
- Proposed Access Road
- Proposed Collector Line
- Decorah Edge
- 50' Buffer of Seeps in Edge

Karst Features

- Sinkhole
- tile drain outlet
- Spring
- Spring - not field verified
- Regions Prone to Surface Karst Feature Development

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

Date: (6/25/2025)



LEMON HILL SOLAR
A RANGER POWER PROJECT

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N W E S

For Environmental Review Purposes Only

Figure 15 - Surface Waters
Lemon Hill Solar Project
Lemon Hill Solar, LLC
Olmsted County, Minnesota

Page 1 of 5

- Site
- Proposed Access Road
- Proposed Collector Line
- PWI Stream
- PWI Ditch
- Impaired Stream (2024)
- MDNR River or Stream
- MDNR Lake, Pond or Reservoir
- NWI Wetland
- Delineated Wetland
- Desktop Wetland
- Delineated Waterway

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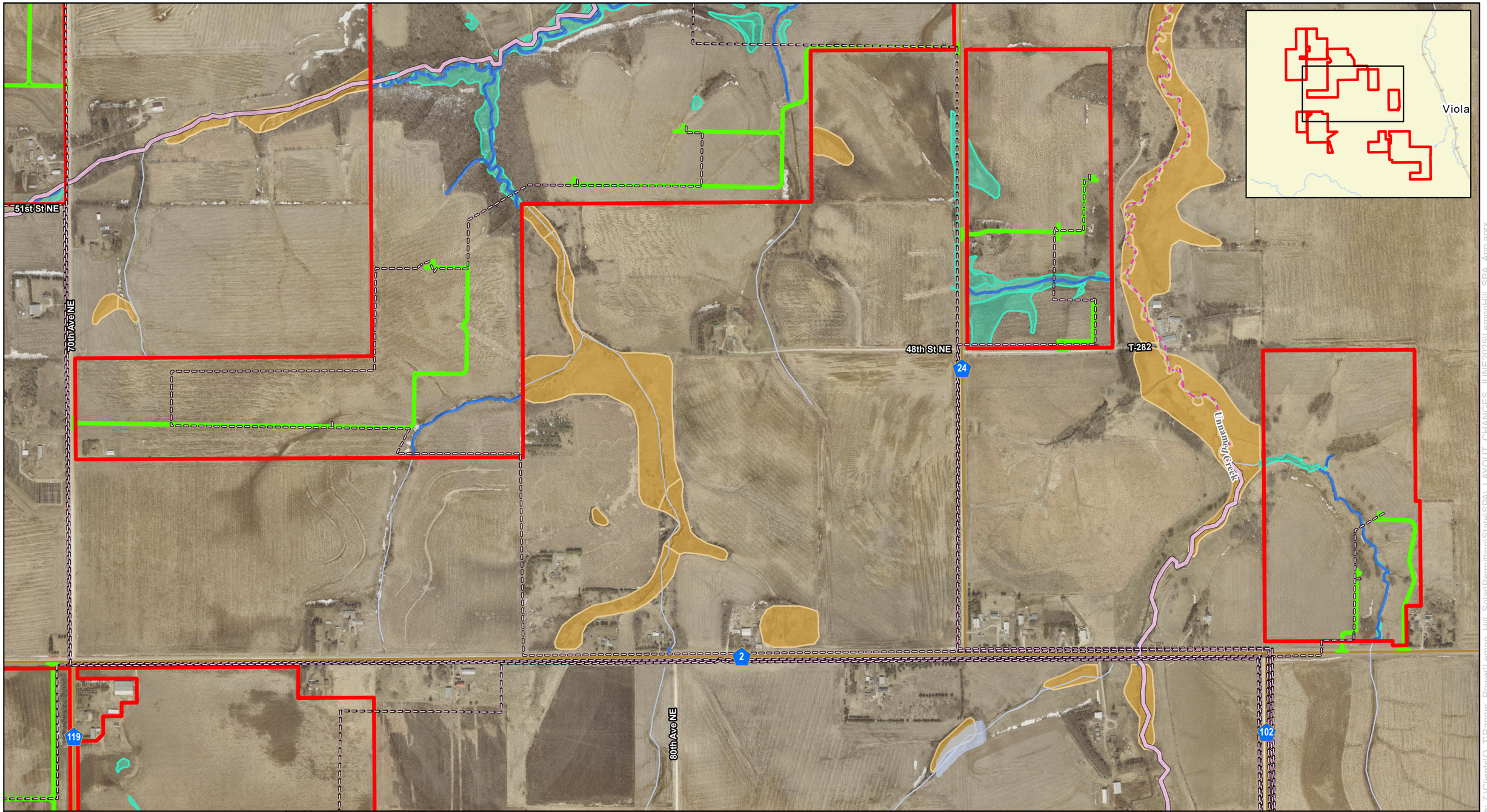

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For Environmental Review Purposes Only

Figure 15 - Surface Waters
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Lemon Hill Solar, LLC
Olmsted County, Minnesota

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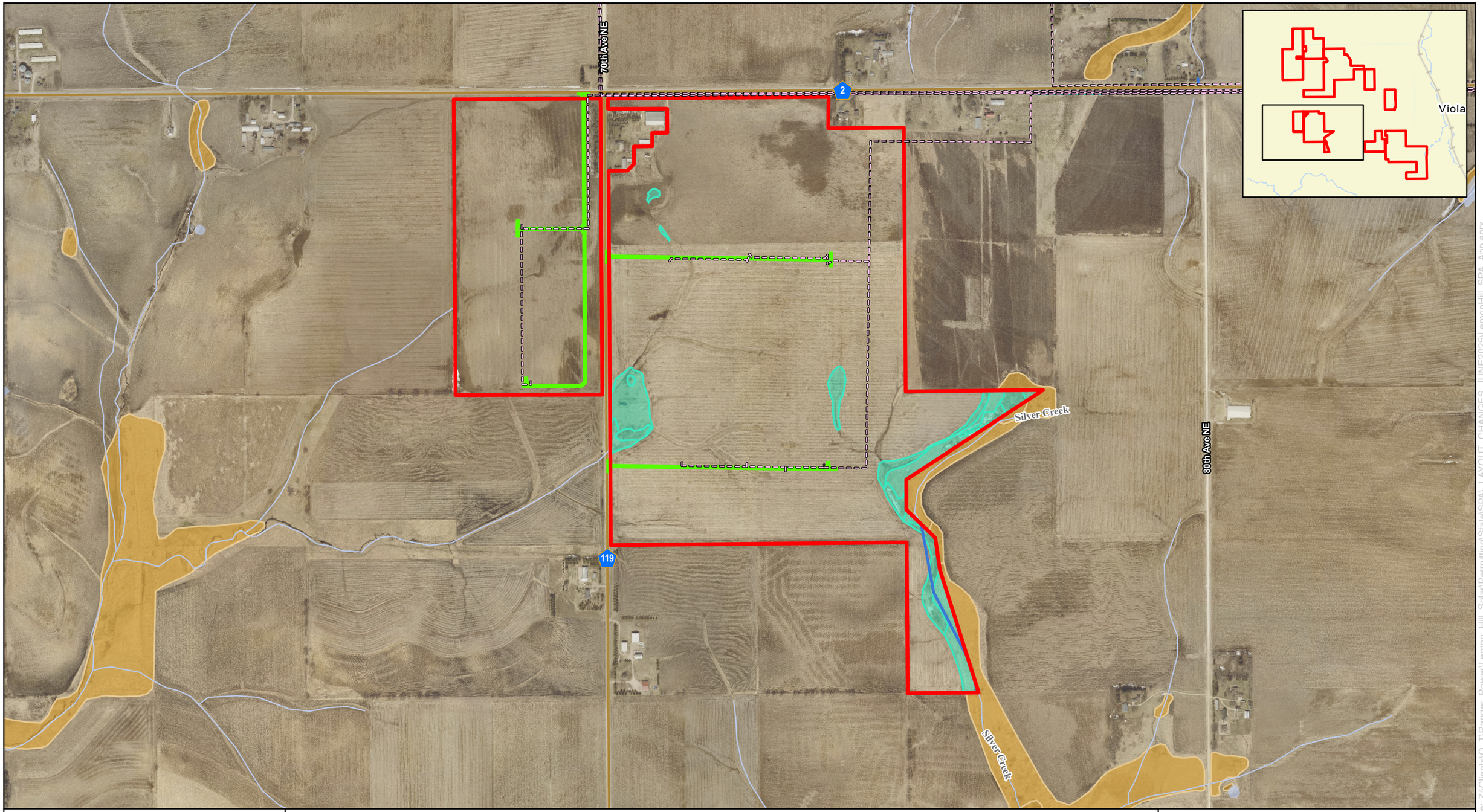

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For Environmental Review Purposes Only

Figure 15 - Surface Waters
Lemon Hill Solar Project
Lemon Hill Solar, LLC
Olmsted County, Minnesota

Page 3 of 5

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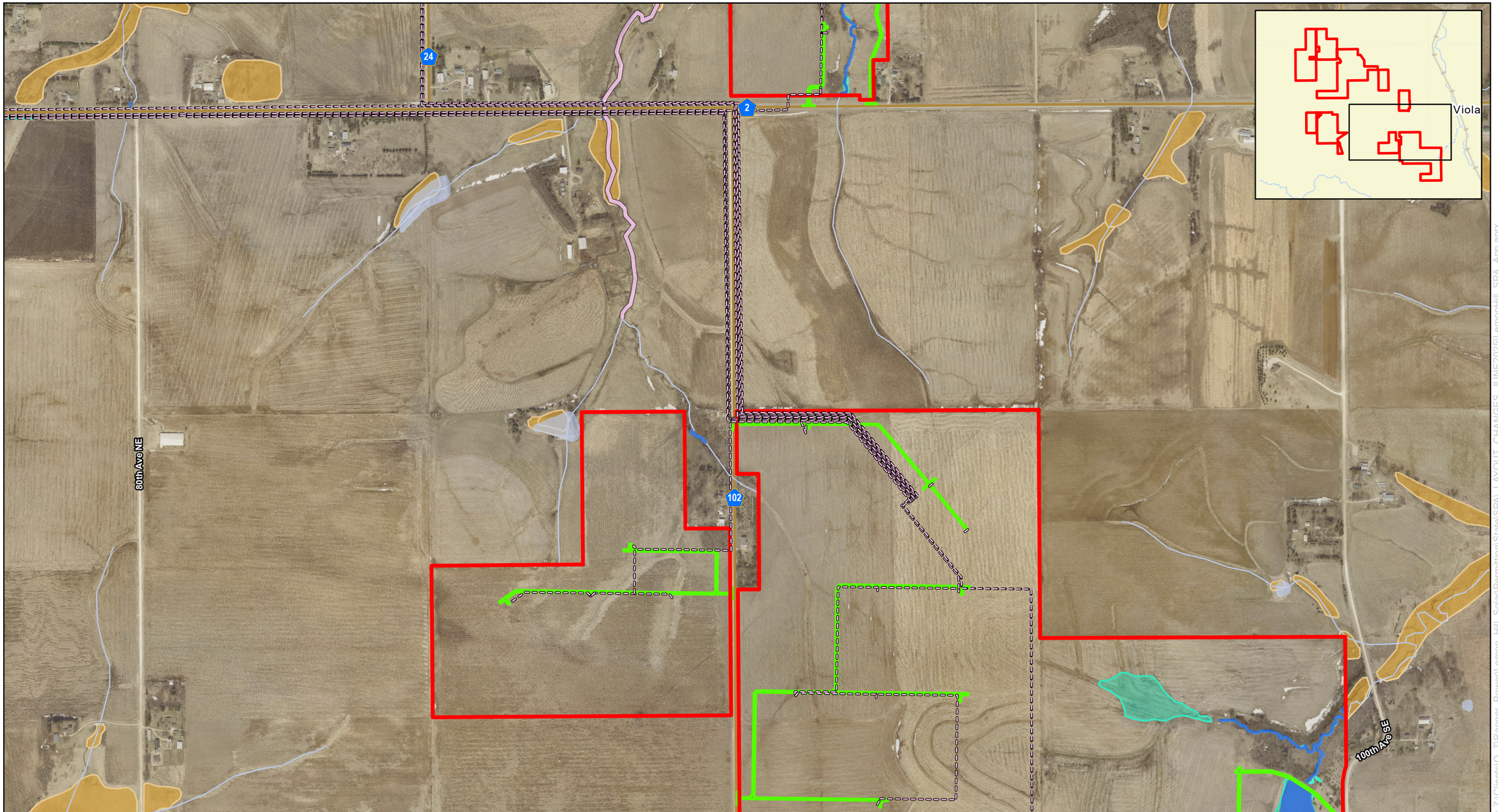

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For Environmental Review Purposes Only

Figure 15 - Surface Waters
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Lemon Hill Solar, LLC
Olmsted County, Minnesota

Page 4 of 5

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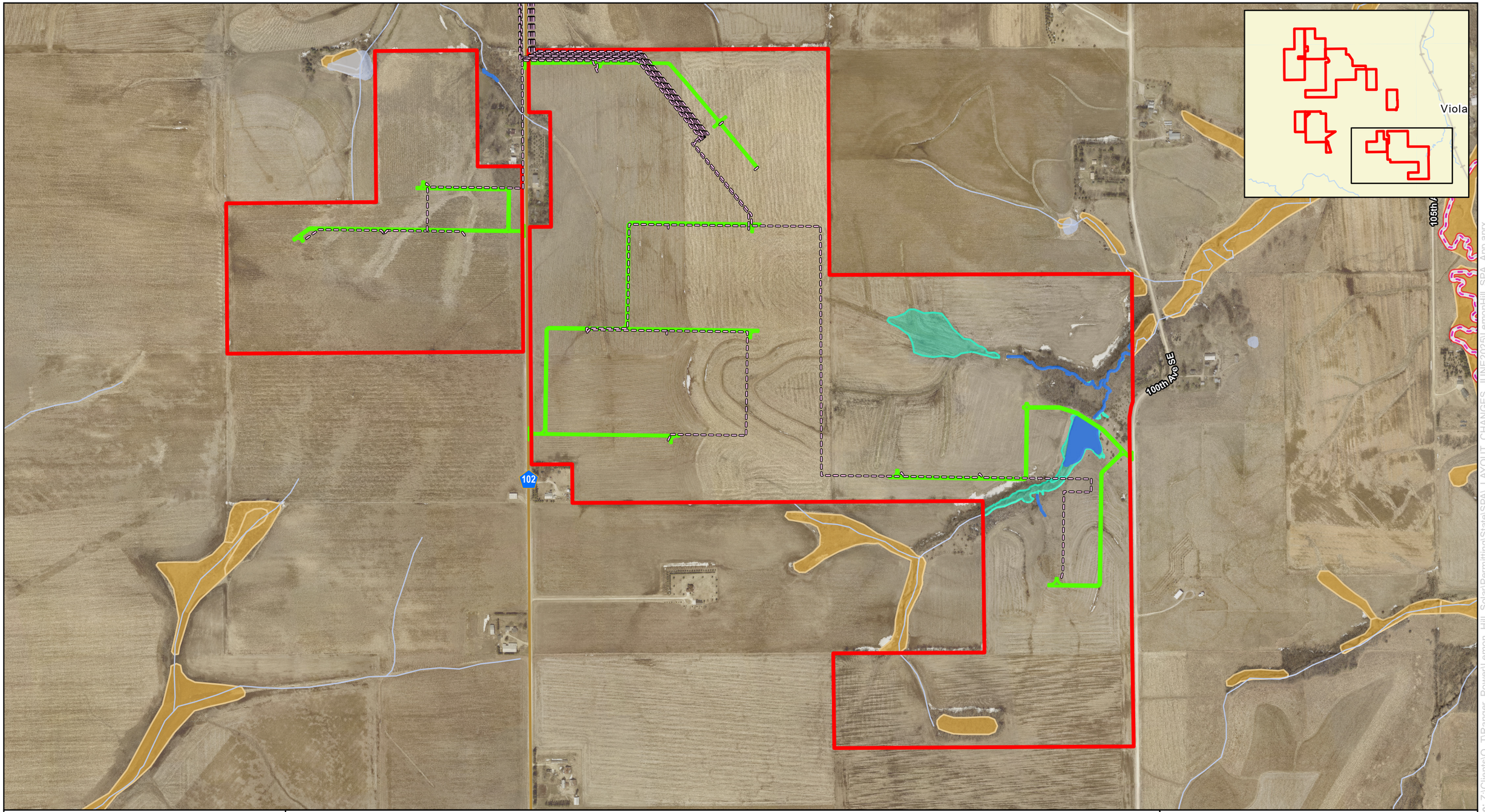

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For Environmental Review Purposes Only

Figure 15 - Surface Waters
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Lemon Hill Solar, LLC
Olmsted County, Minnesota

Page 5 of 5

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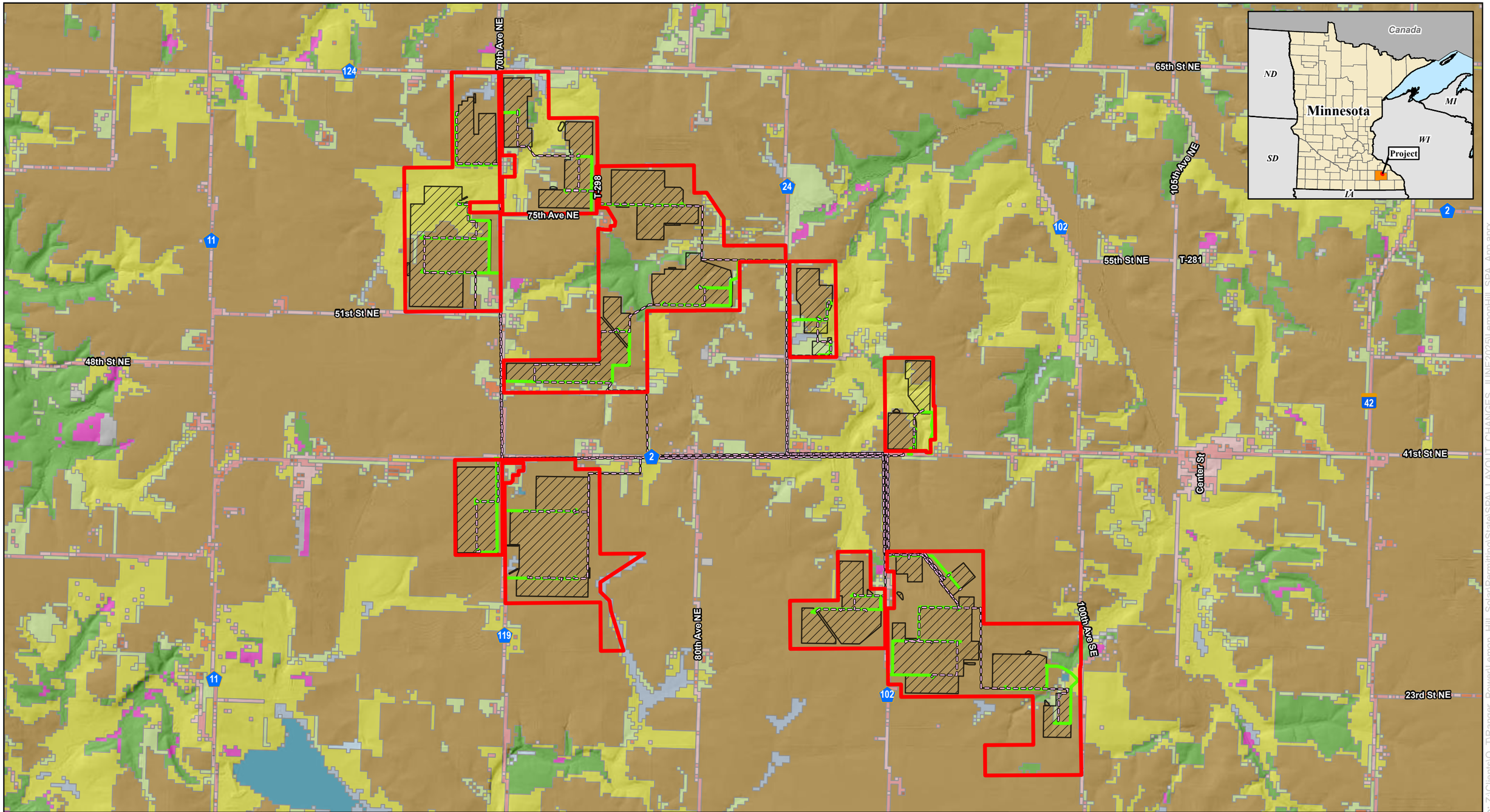

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For Environmental Review Purposes Only

Figure 16 - NLCD Land Cover
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

- Site
- Proposed Access Road
- Preliminary Development Area
- Proposed Collector Line

NLCD Land Cover Type

- Barren Land
- Cultivated Crops
- Deciduous Forest
- Developed, High Intensity
- Developed, Low Intensity
- Developed, Medium Intensity
- Developed, Open Space
- Emergent Herbaceous Wetlands
- Hay/Pasture
- Herbaceous
- Mixed Forest
- Open Water
- Woody Wetlands

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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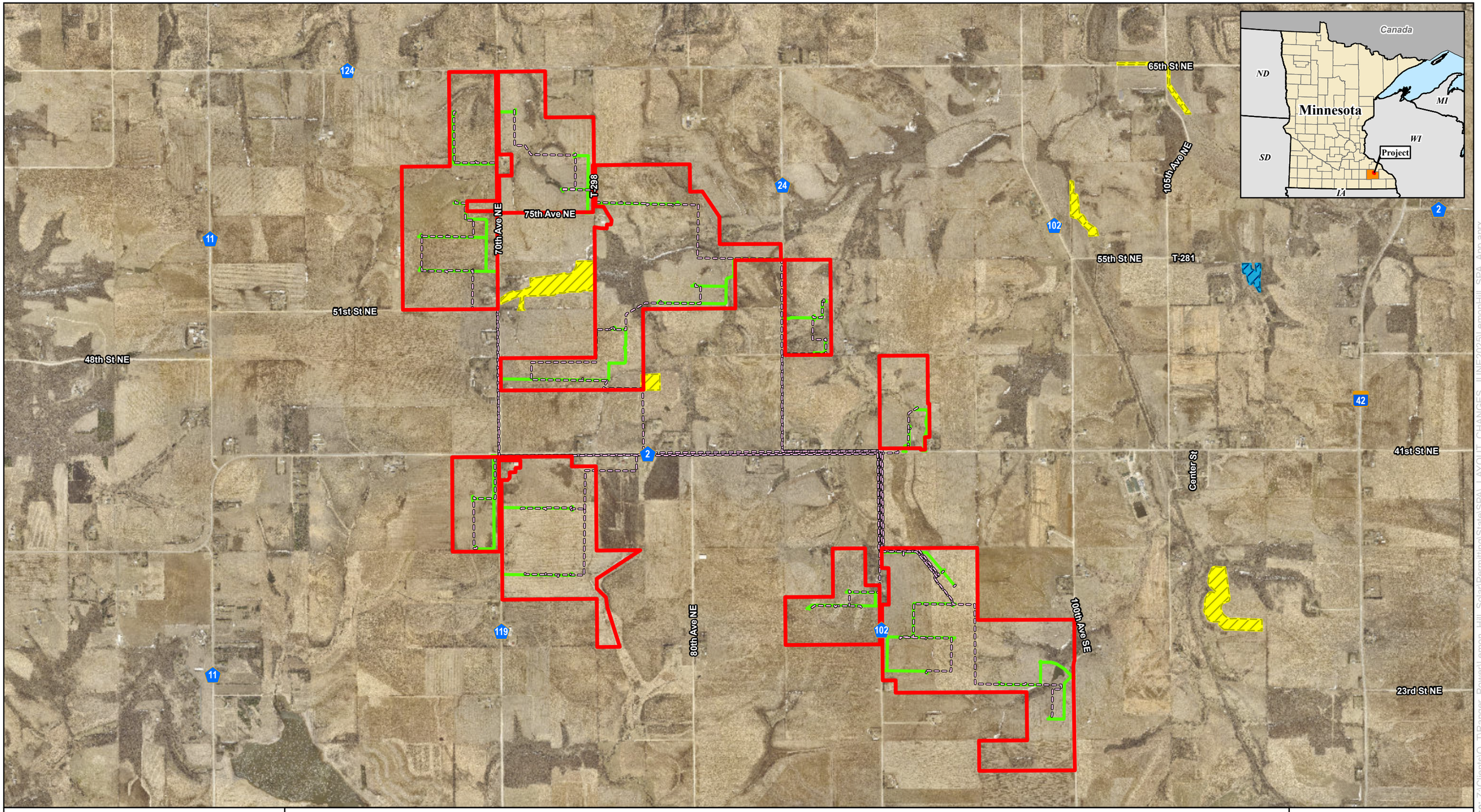

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For Environmental Review Purposes Only

Figure 17 - Conservation Reserve Enhancement Program (CREP) and Reinvest In Minnesota (RIM) Program Easements
Lemon Hill Solar Project
Lemon Hill Solar, LLC
Olmsted County, Minnesota

- Site
- Proposed Access Road
- Proposed Collector Line
- CREP II Easement
- RIM Easement

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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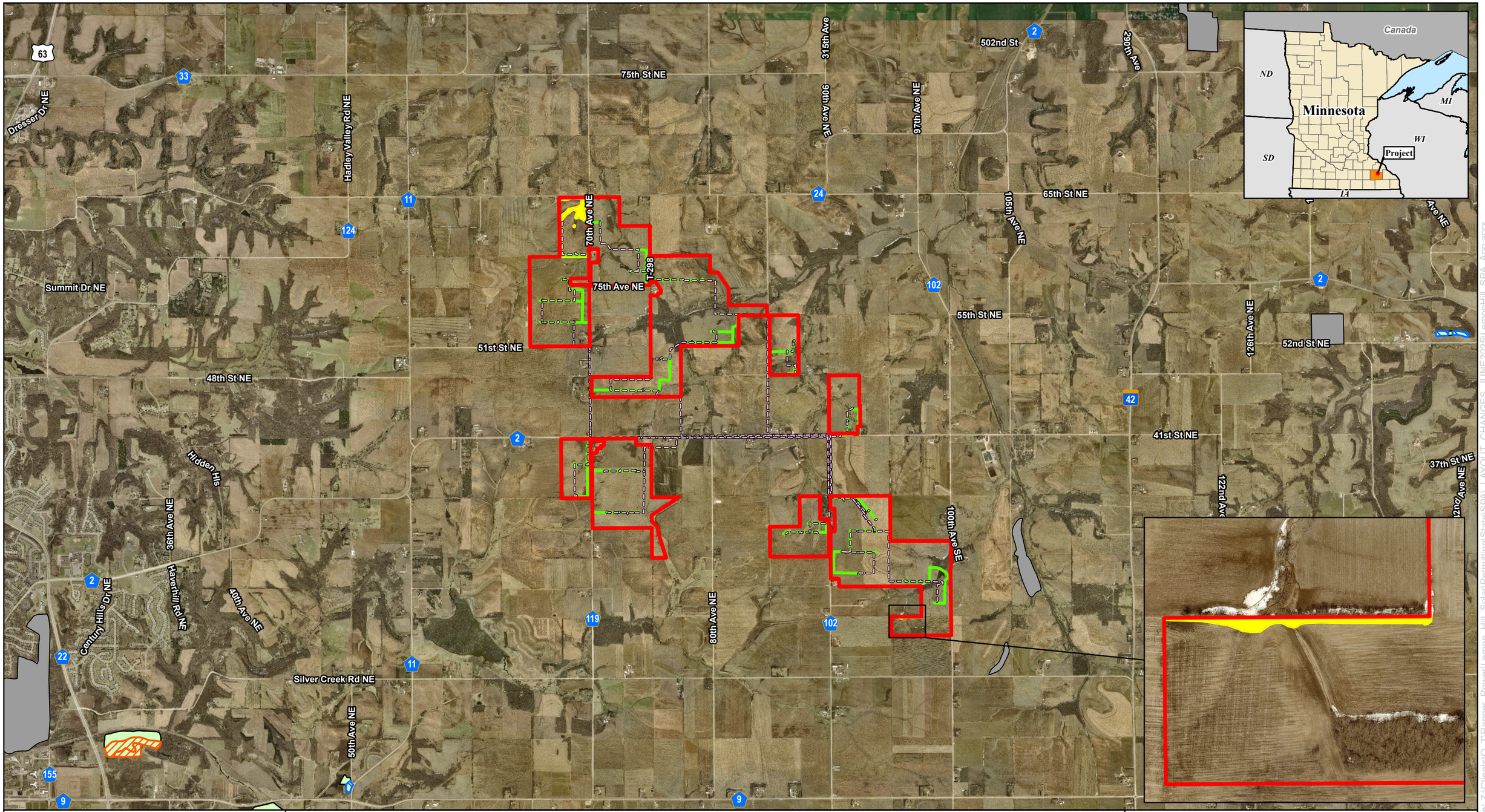

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A RANGER POWER PROJECT

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Figure 18 - Unique and Natural Features
Lemon Hill Solar Project

Lemon Hill Solar, LLC

Olmsted County, Minnesota

- Site
- Proposed Access Road
- Proposed Collector Line
- Potential Desktop Evaluated Native Prairie

DNR Native Plant Communities

- Mesic Hardwood Forest System
- Upland Prairie System

MBS Sites of Biodiversity Significance

- Moderate
- Below

Source: Z:\Clients\Q_T\Ranger_Power\Lemon_Hill_Solar\Permitting\State\SPA_LAYOUT_CHANGES_JUNE2025\LemonHill_SPA_App.aprx

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