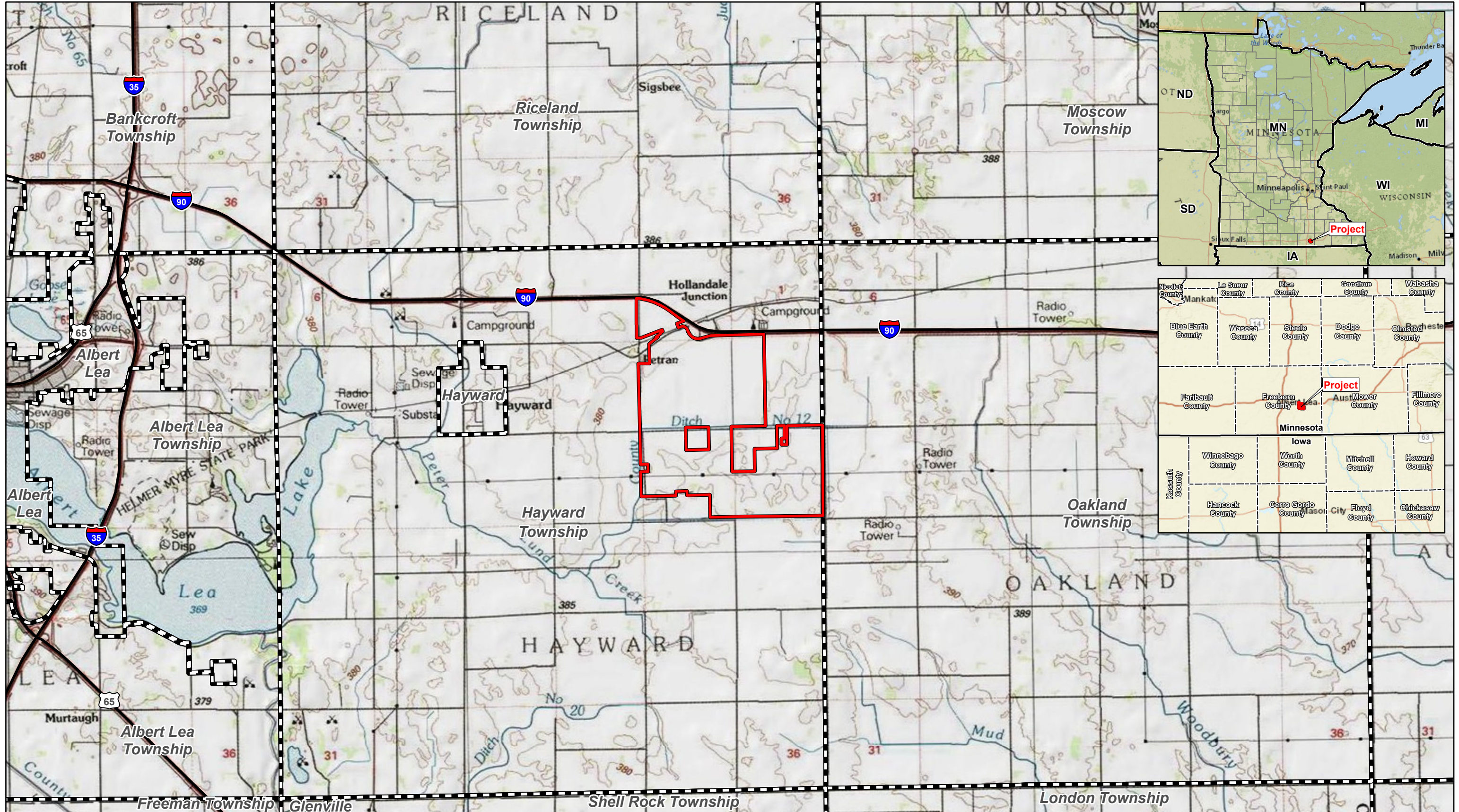


Figures



Data Source(s): Westwood (2021); ESRI WMS
 USA Topo, National Geographic, & World Streets
 Basemaps (Accessed 2021); Census Bureau
 (2019).

Legend

- Project Area
- Municipal Boundary
- Major Road



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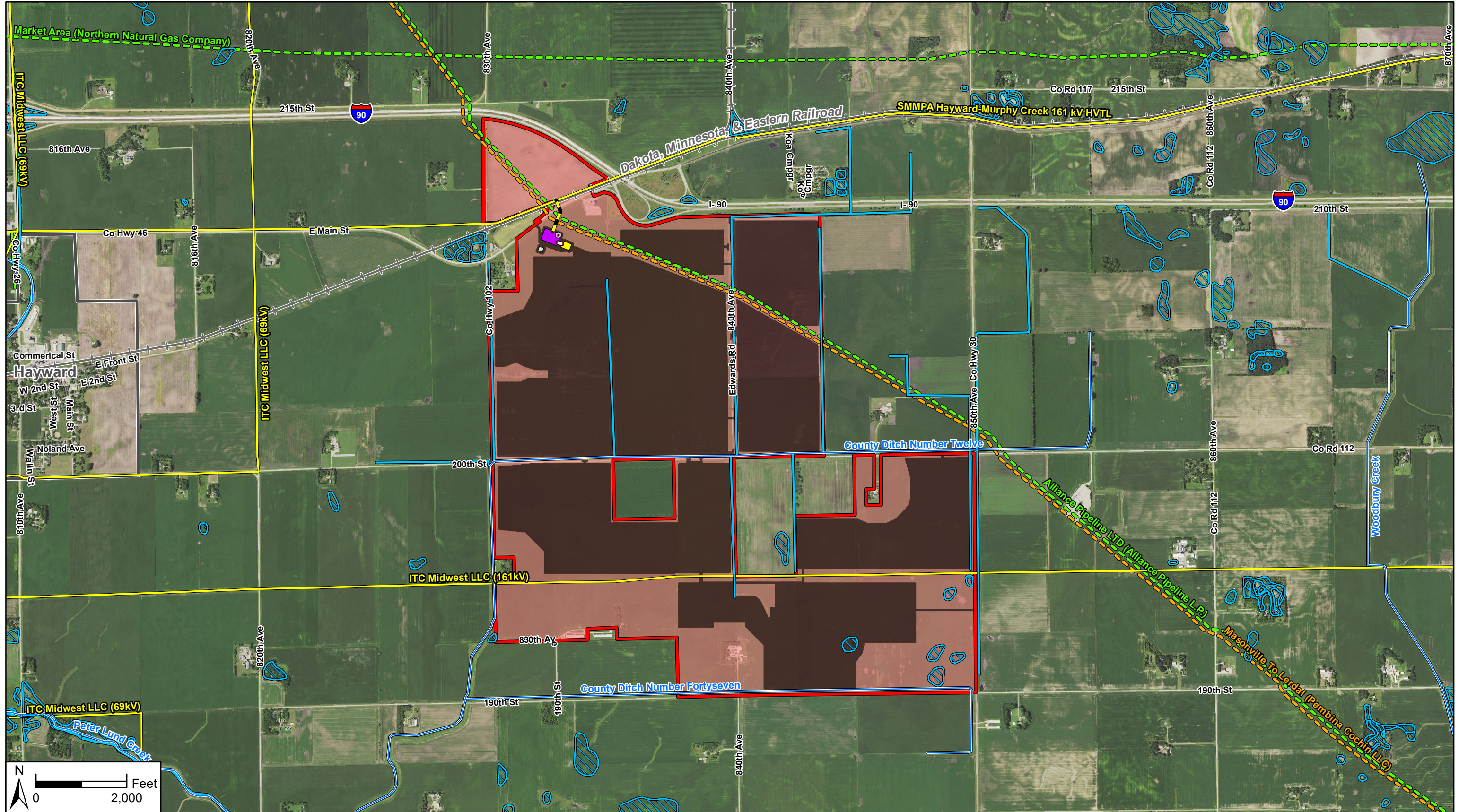
Hayward Solar Project

Freeborn County, Minnesota

Project Location &
 USGS Topography

FIGURE 1

Map Document: N:\0026599_00\GIS\SPA\Figures\Hayward_SPA_Fig01_ProjectLocation&USGSTopography_210427.mxd 4/27/2021 5:03:26 PM radevici



Data Source(s): Westwood (2021); Minnesota NAIP Imagery (2019); Census Bureau (2019); Ventyx Velocity Suite, Ventyx Energy LLC (2020); USGS NHD Dataset (2019); U.S. Fish and Wildlife Service (2020); Ducks Unlimited (2020); NPMS (2021). Existing pipeline routes are approximate.

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Legend

- Project Area
- Proposed Substation
- Current Site Control Area
- SMPMA Switchyard
- Preliminary Development Area
- Proposed O&M Building
- Municipal Boundary
- POI
- SMPMA Line Tap
- Project Gen-Tie Line
- Existing Transmission Line
- Existing Natural Gas Pipeline
- Existing Crude Oil Pipeline
- Major Waterway
- NW1 Wetland
- Railroad

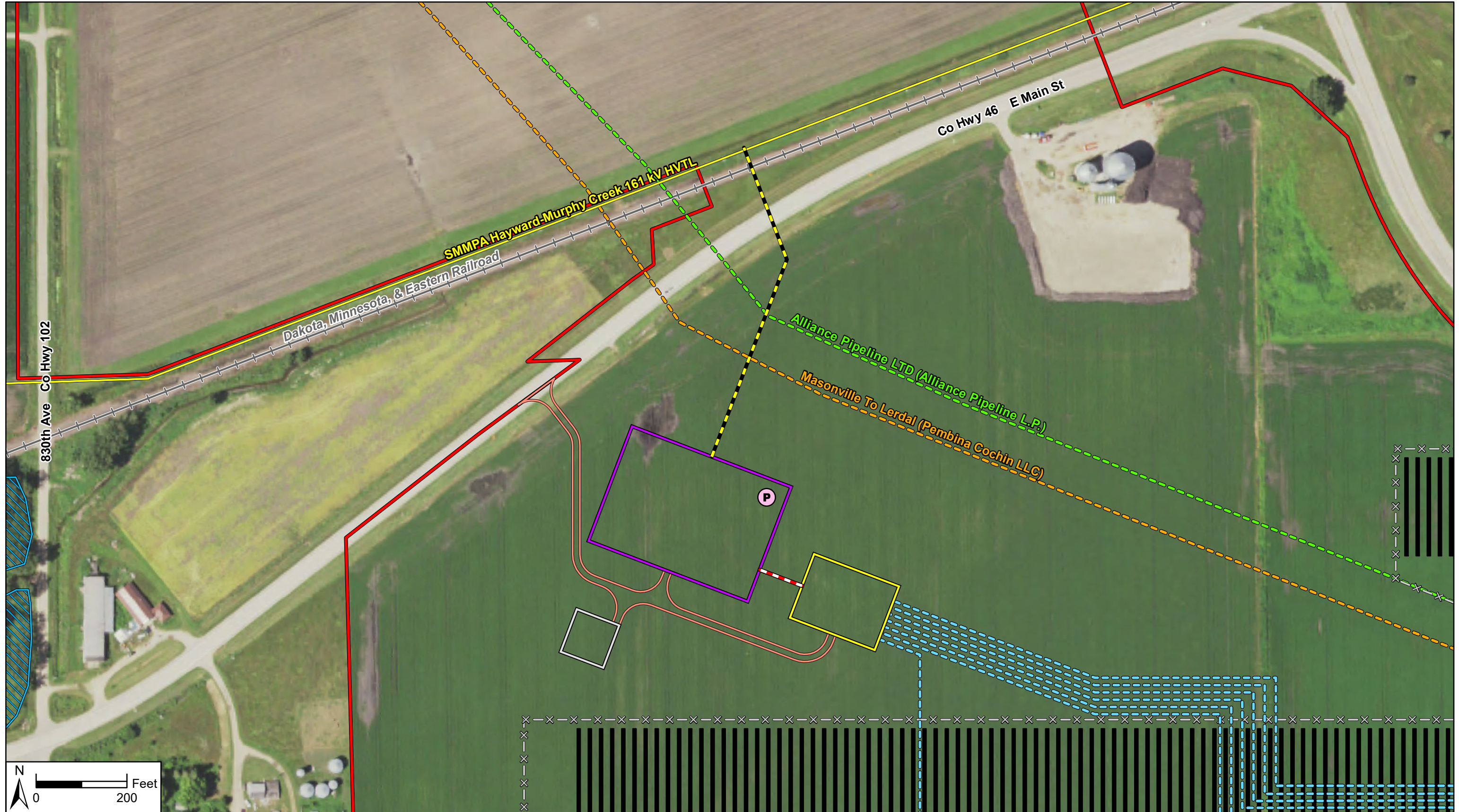
Hayward Solar Project

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Land Rights & Preliminary Development Area

FIGURE 2

Map Document: N:\0026599_00\GIS\SPA_Figures\Hayward_SPA_Fig02_LandRights&PreliminaryDevelopmentArea_210427.mxd, 4/27/2021, 5:08:01 PM, adevib



Data Source(s): Westwood (2021); Minnesota NAIIP Imagery (2019); Census Bureau (2019); Ventyx Velocity Suite, Ventyx Energy LLC (2020); USGS NHD Dataset (2019); U.S. Fish and Wildlife Service (2020); Ducks Unlimited (2020); NPMS (2021). Existing pipeline routes are approximate.



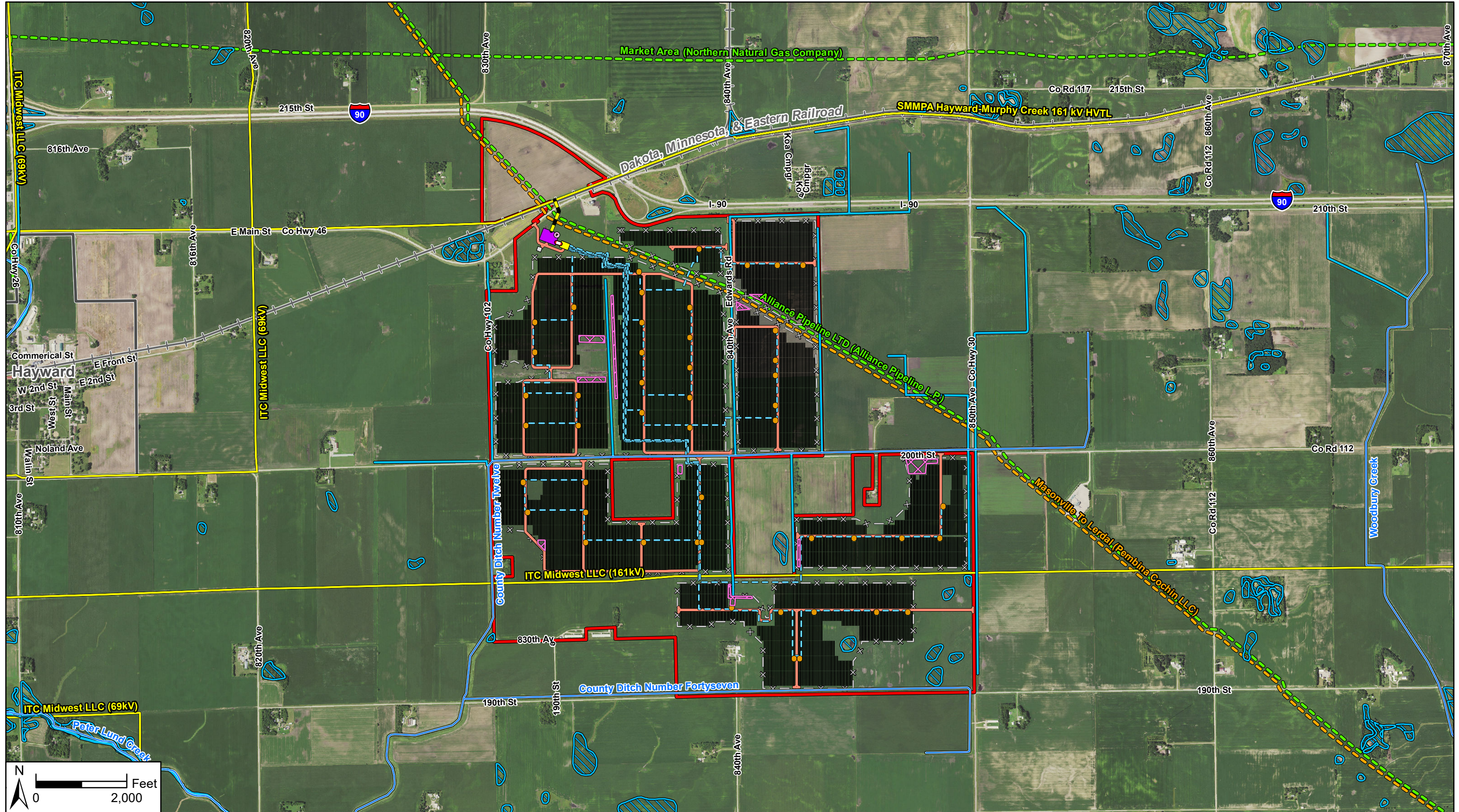
Legend

- Project Area
- Proposed Project Access Road
- SMMPA Line Tap
- Project Gen-Tie Line
- Proposed Project Underground Collection Line
- Proposed Project Substation
- SMMPA Switchyard
- Proposed Project O&M Building
- Proposed Project Inverter
- P POI
- Proposed Project Water Basin
- Major Waterway
- NWI Wetland
- Existing Transmission Line
- Existing Natural Gas Pipeline
- Existing Crude Oil Pipeline
- Railroad

Hayward Solar Project
Freeborn County, Minnesota

Project Interconnection Facilities

FIGURE 3



Data Source(s): Westwood (2021); Minnesota NAIP Imagery (2019); Census Bureau (2019); Ventyx Velocity Suite, Ventyx Energy LLC, (2020); USGS NHD Dataset (2019); U.S. Fish and Wildlife Service (2020); Ducks Unlimited (2020); NPMS (2021). Existing pipeline routes are approximate.

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Legend	
	Project Area
	Proposed Project Solar Array Layout
	Proposed Project Fence Boundary
	Municipal Boundary
	Proposed Project Access Road
	Proposed Project Collection Line
	Proposed Project Inverter
	Proposed Project Substation
	SMMPA Switchyard
	Proposed Project O&M Building
	POI
	SMMPA Line Tap
	Project Gen-Tie Line
	Proposed Project Water Basin
	Major Waterway
	NWI Wetland
	Existing Transmission Line
	Existing Natural Gas Pipeline
	Existing Crude Oil Pipeline
	Railroad

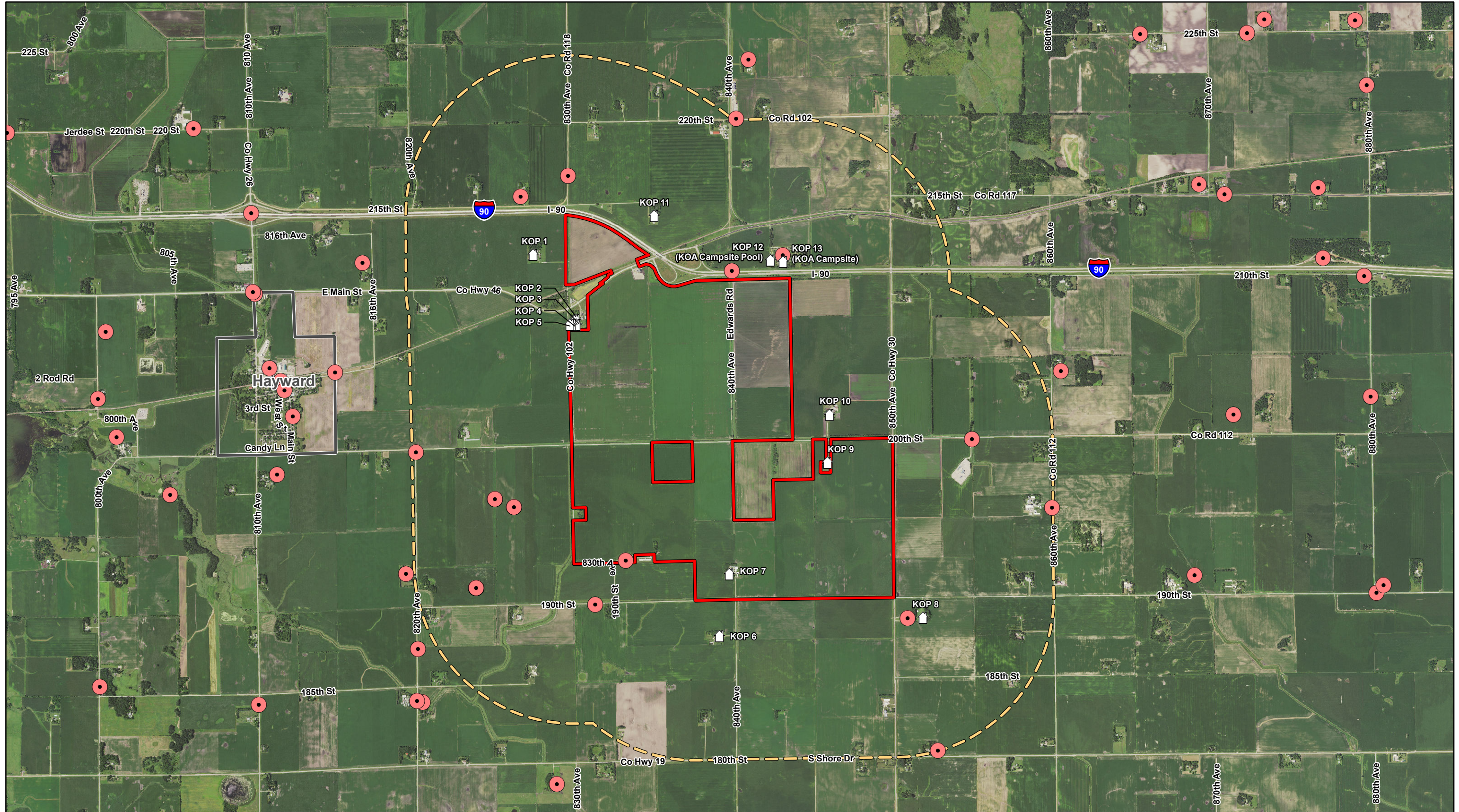
Hayward Solar Project

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Preliminary Facility Design

FIGURE 4

Map Document: N:\0026599.00\GIS\SPA_Figures\Hayward_SPA_Fig04_PreliminaryFacilityDesign_210427.mxd, 4/27/2021, 5:07:16 PM, radevito



Data Source(s): Westwood (2021); Minnesota NAIP Imagery (2019); Census Bureau (2019); Minnesota Pollution Control Agency (2021).

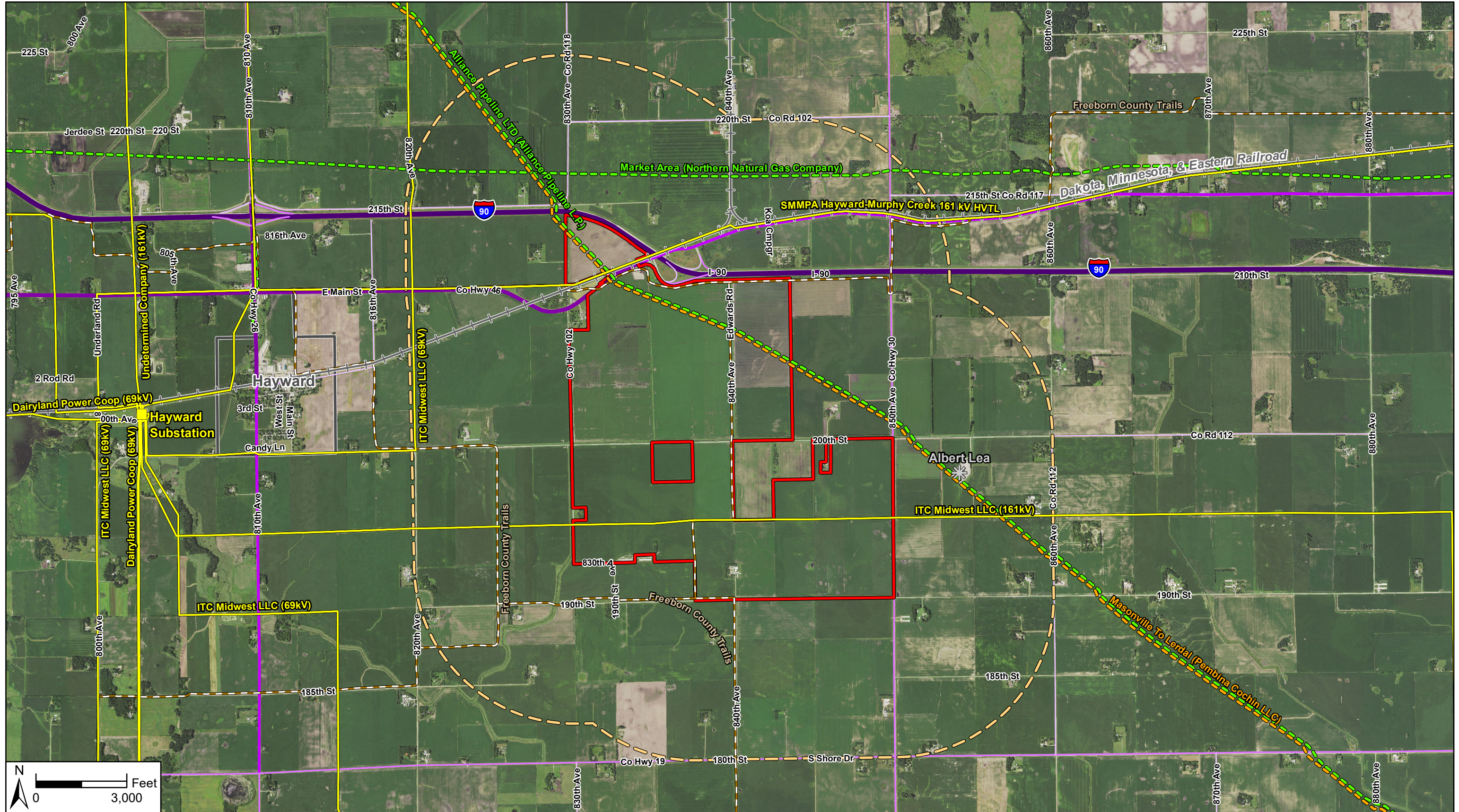
Legend

- Project Area
- 1-Mile Project Area Buffer
- MPCA Site
- Nearby Residence or Campground Site
- Municipal Boundary



Hayward Solar Project
Freeborn County, Minnesota

MPCA Sites in Project Vicinity



Data Source(s): Westwood (2021); Minnesota NAIP Imagery (2019); Census Bureau (2019); Ventyx Velocity Suite, Ventyx Energy LLC (2021); NIMS (2020); MNDOT (2021); NPMS (2021). Existing pipeline routes are approximate.

Legend

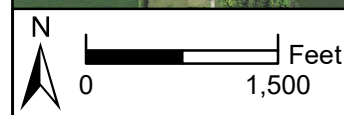
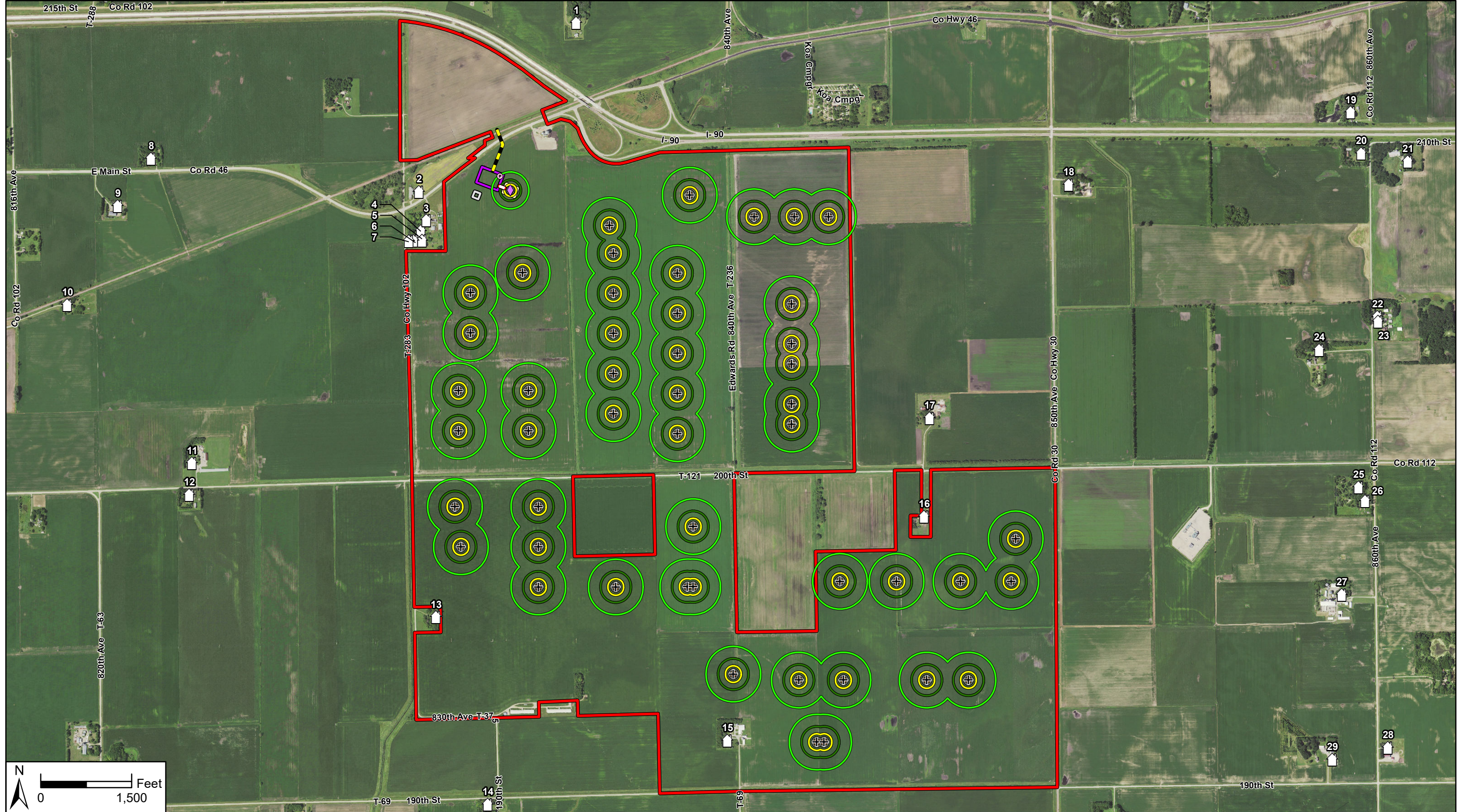
- | | | | | | |
|----------------------------|--------------------------------|-------------------------------|------------------|-------------|----------------|
| Project Area | Existing Substation | Existing Transmission Line | Railroad | 15 - 205 | 1,501 - 2,800 |
| 1-Mile Project Area Buffer | Airport | Existing Natural Gas Pipeline | Snowmobile Trail | 206 - 810 | 2,801 - 12,700 |
| Municipal Boundary | Natural Gas Compressor Station | Existing Crude Oil Pipeline | | 811 - 1,500 | |

Hayward Solar Project
Freeborn County, Minnesota

Existing Infrastructure & Traffic Summary

FIGURE 6

Map Document: N:\0026599_00\GIS\SPAs\Figures\Hayward_SPA_Fig06_ExistingInfrastructure&TrafficSummary_210427.mxd 4/27/2021 5:20:52 PM rdevillo



Data Source(s): Westwood (2021); Minnesota NAIP Imagery (2019); Census Bureau (2019).

Legend

- Project Area
- Proposed Project Substation
- SMMPA Switchyard
- Proposed Project O&M Building
- + POI
- + SMMPA Line Tap
- + Project Gen-Tie Line
- + Proposed Project Inverter Skid
- + Proposed Project Substation Transformer
- + Residence

Decibel Levels

- 90dBA
- 75dBA
- 60dBA
- 55dBA
- 50dBA
- 45dBA
- 40dBA
- 35dBA

Hayward Solar Project
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Noise Modeling Results



FIGURE 7

Map Document: N:\0026599_00\GIS\SPA\Figures\Hayward_SPA_Fig07_NoiseModelingResults_210427.mxd 4/27/2021 5:38:09 PM radervito