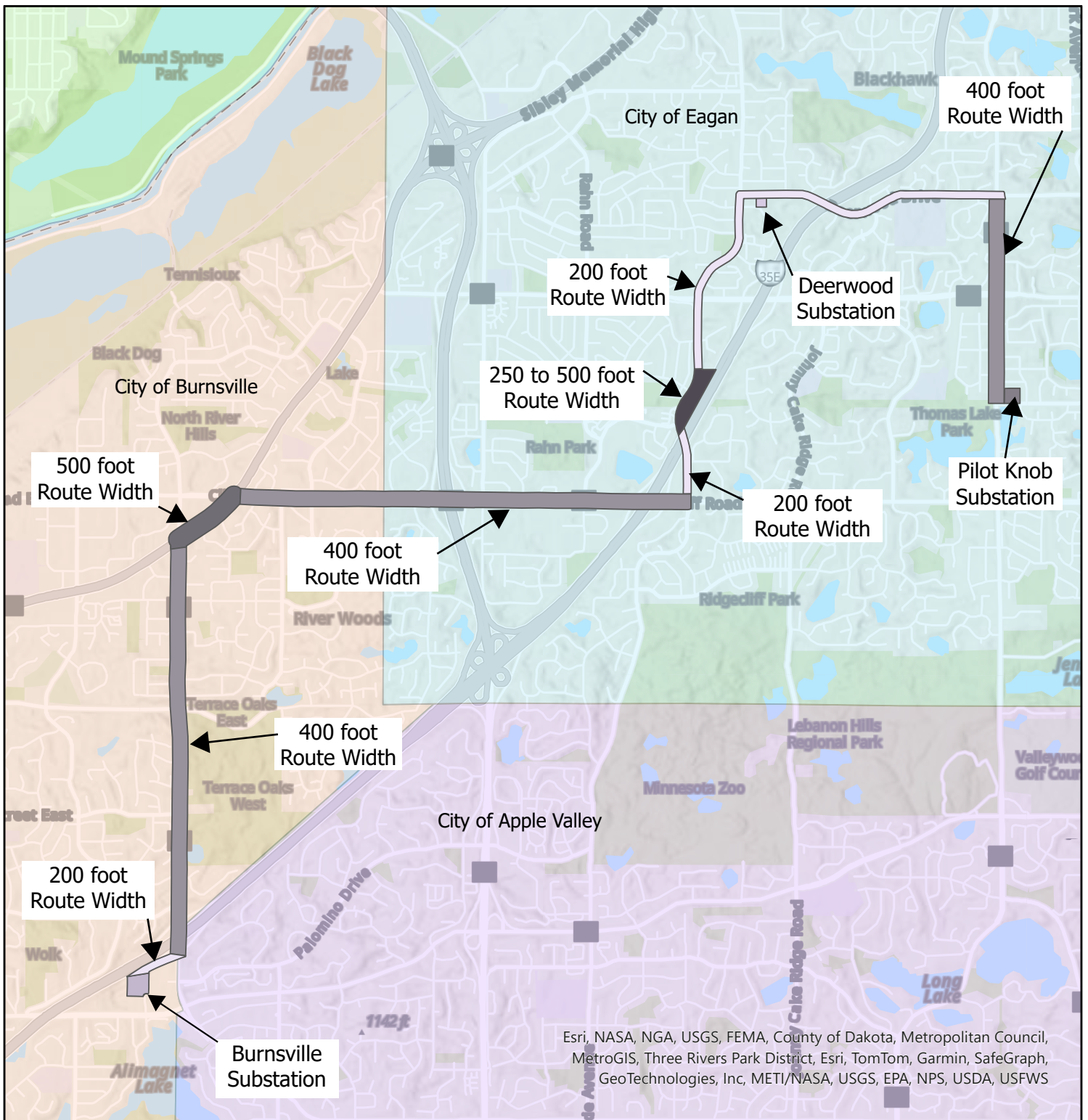
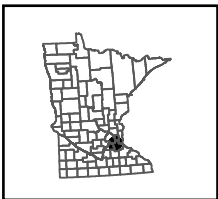


Appendix A Figures

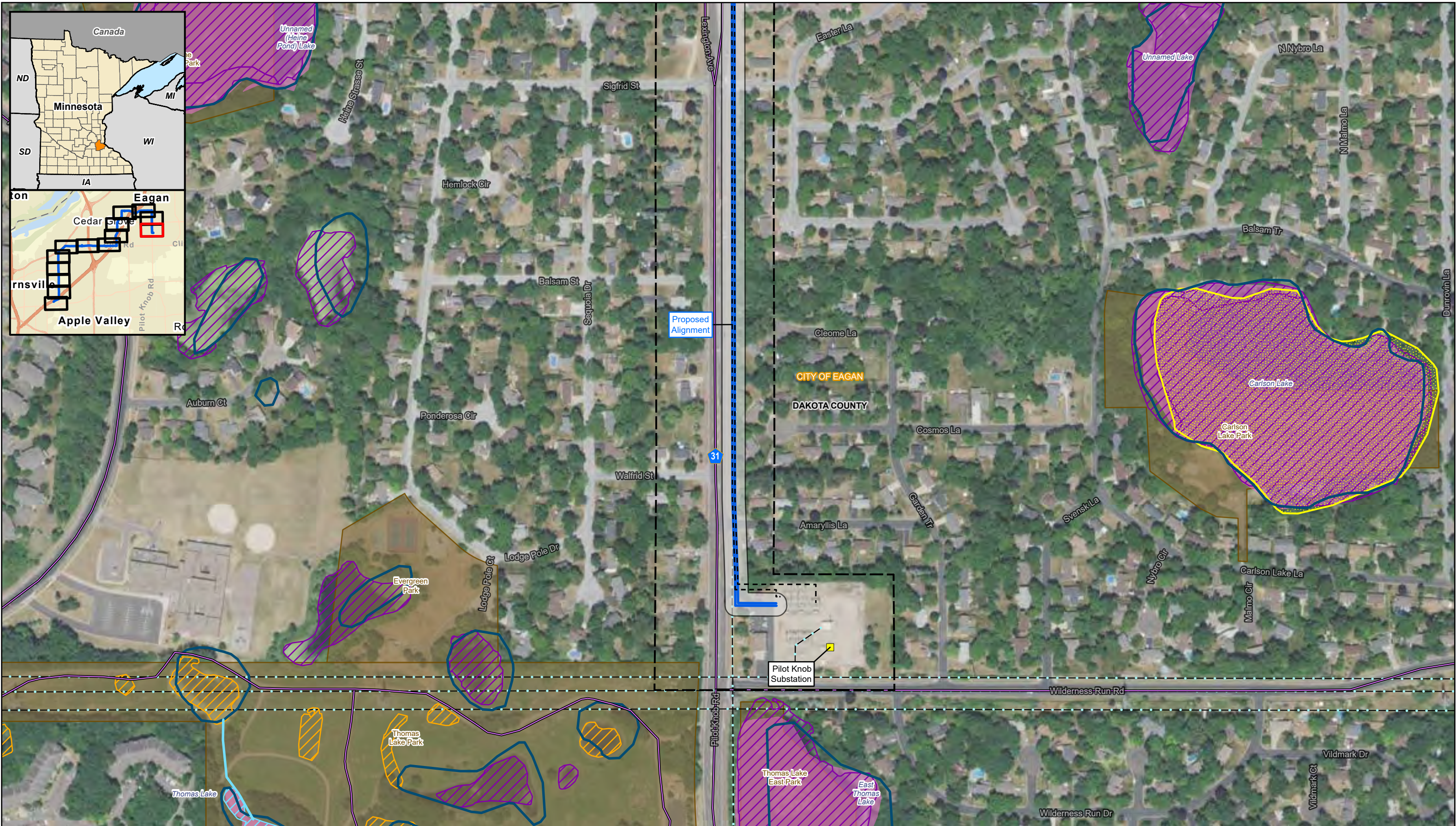


Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project



Route Width Provided by Great River Energy in its Application to the Minnesota Public Utilities Commission for a Route Permit for the Pilot Knob to Burnsville 115 kV Transmission Line Rebuild and Upgrade Project in Dakota County, Minnesota, Docket No. ET2/TL-23-410

Detailed Route Width Request from Application



0 150 300 Feet
1 inch = 300 feet

Appendix A

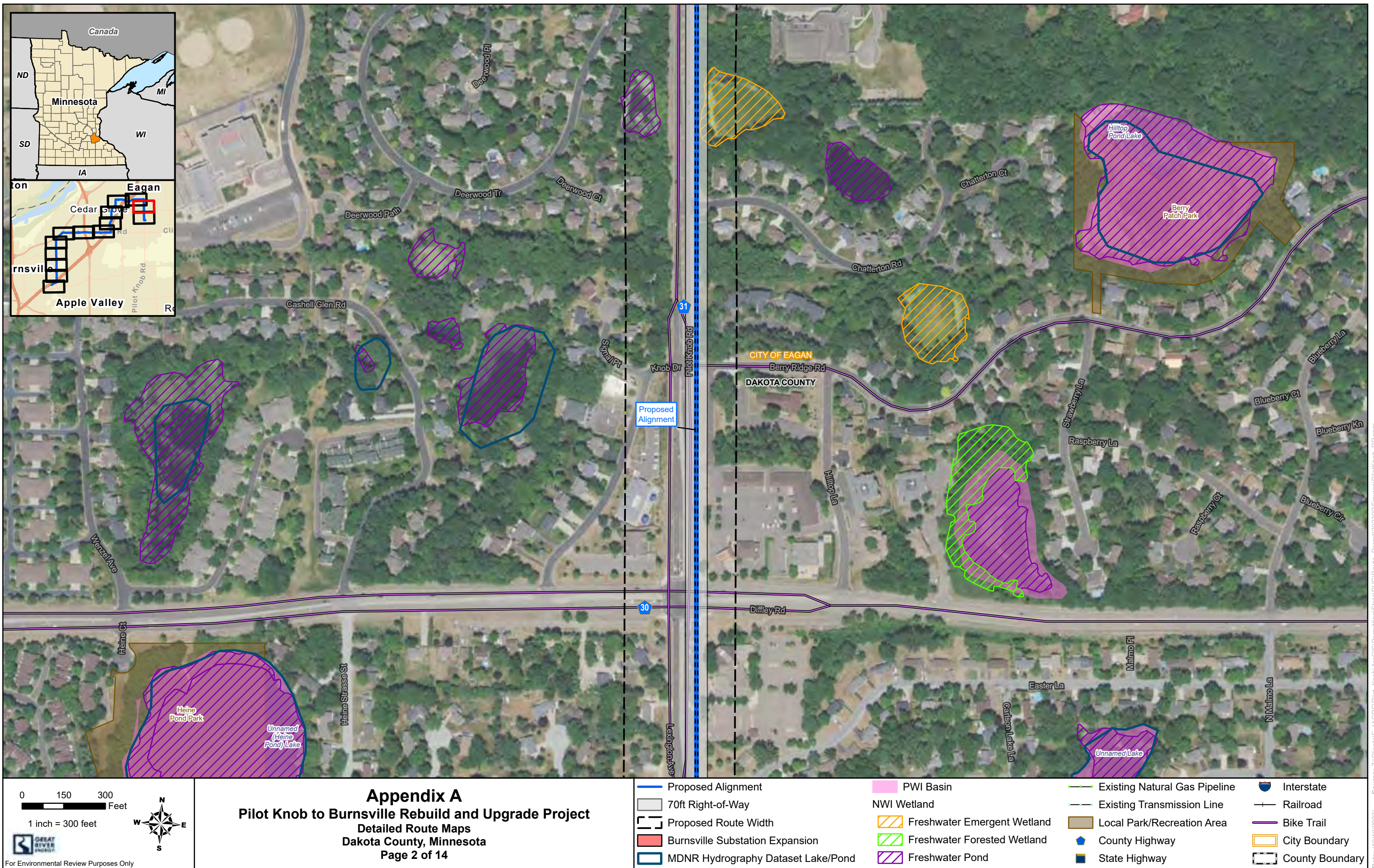
Pilot Knob to Burnsville Rebuild and Upgrade Project

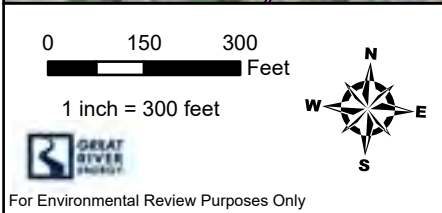
Detailed Route Maps

Dakota County, Minnesota

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- | | | | | |
|--|---|--|---|---|
| <ul style="list-style-type: none">Proposed Alignment70ft Right-of-WayProposed Route WidthExisting SubstationBurnsville Substation ExpansionMDNR Hydrography Dataset Watercourse | <ul style="list-style-type: none">MDNR Hydrography Dataset Lake/PondPWI BasinImpaired Lake (2022) | <ul style="list-style-type: none">NWI WetlandFreshwater Emergent WetlandFreshwater PondLake | <ul style="list-style-type: none">Existing Natural Gas PipelineExisting Transmission LineLocal Park/Recreation AreaCounty HighwayState HighwayInterstate | <ul style="list-style-type: none">RailroadBike TrailCity BoundaryCounty Boundary |
|--|---|--|---|---|





Appendix A

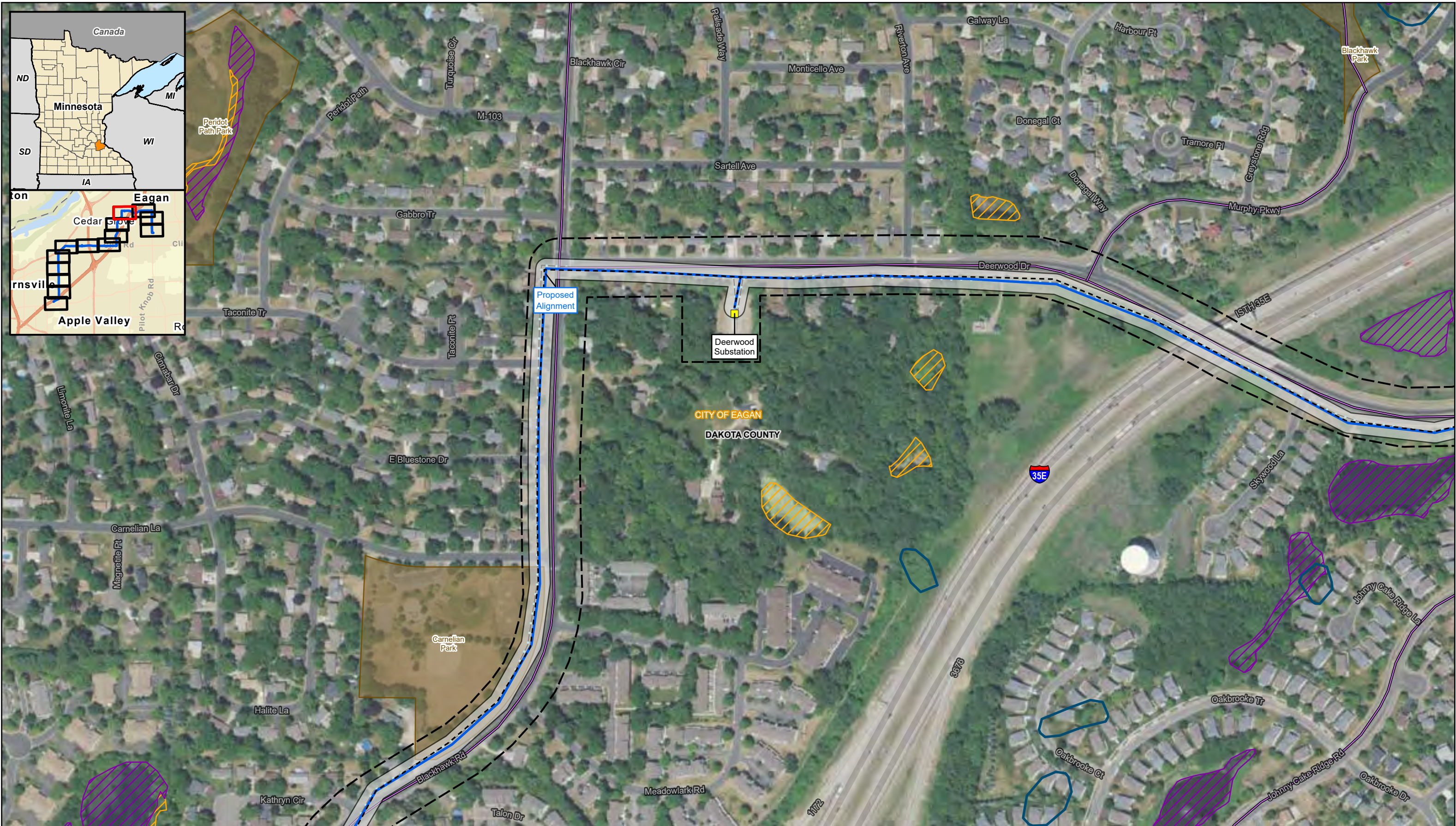
Pilot Knob to Burnsville Rebuild and Upgrade Project

Detailed Route Maps

Dakota County, Minnesota

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Proposed Alignment	Freshwater Emergent Wetland	Existing Natural Gas Pipeline	Interstate
70ft Right-of-Way	Freshwater Forested Wetland	Existing Transmission Line	Railroad
Proposed Route Width	Freshwater Pond	Local Park/Recreation Area	Bike Trail
Burnsville Substation Expansion		County Highway	City Boundary
MDNR Hydrography Dataset Lake/Pond		State Highway	County Boundary



0 150 300 Feet
1 inch = 300 feet





For Environmental Review Purposes Only

Appendix A

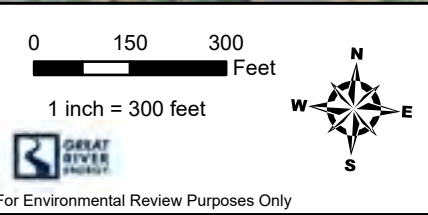
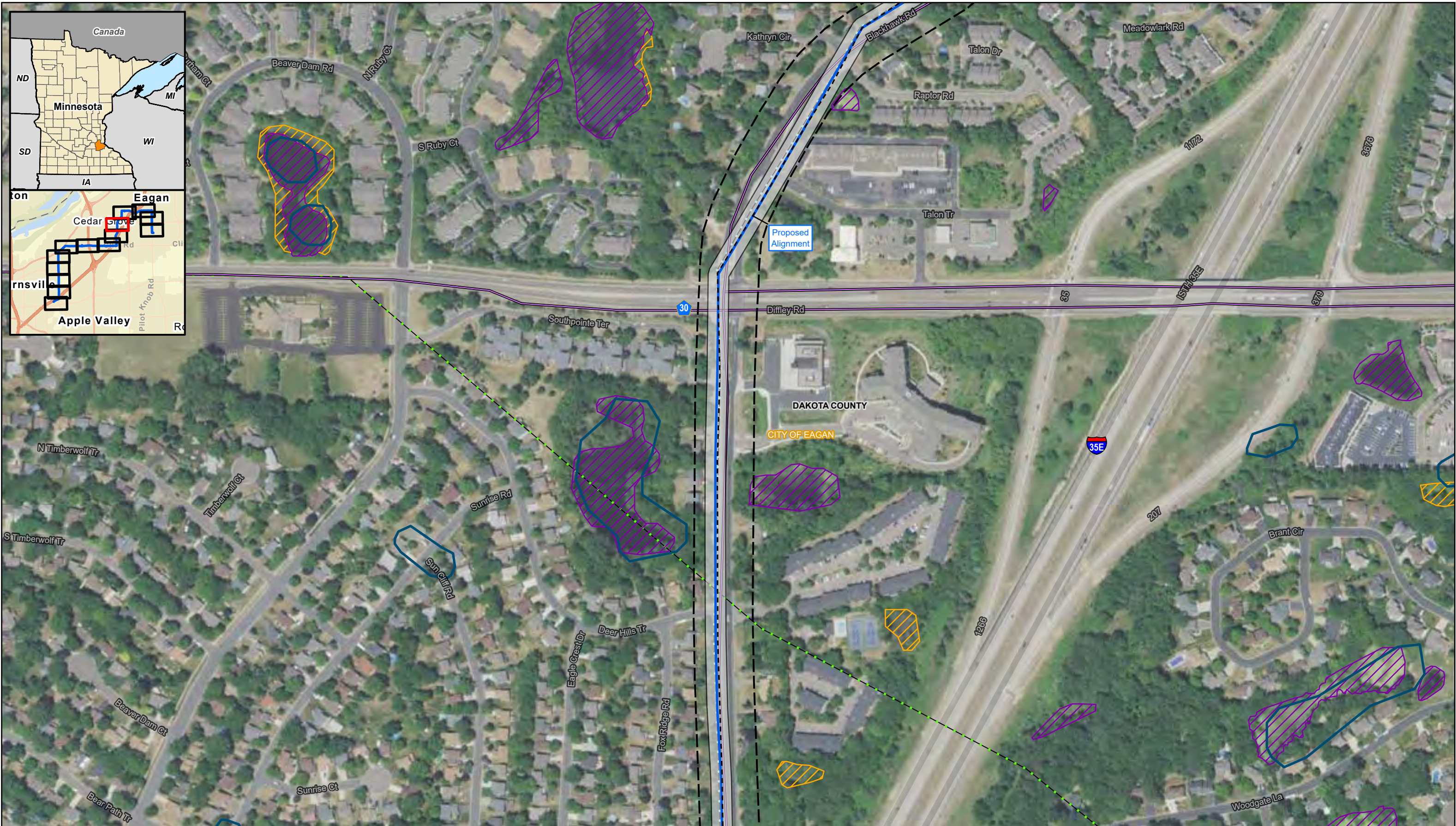
Pilot Knob to Burnsville Rebuild and Upgrade Project

Detailed Route Maps

Dakota County, Minnesota

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 Proposed Alignment	 MDNR Hydrography Dataset Lake/Pond	 Existing Natural Gas Pipeline	 Interstate
 70ft Right-of-Way	 NWI Wetland	 Existing Transmission Line	 Railroad
 Proposed Route Width	 Freshwater Emergent Wetland	 Local Park/Recreation Area	 Bike Trail
 Existing Substation	 Freshwater Pond	 County Highway	 City Boundary
 Burnsville Substation Expansion		 State Highway	 County Boundary



Appendix A

Pilot Knob to Burnsville Rebuild and Upgrade Project

Detailed Route Maps

Dakota County, Minnesota

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Proposed Alignment	MDNR Hydrography Dataset Lake/Pond	Existing Natural Gas Pipeline	Interstate	County Boundary
70ft Right-of-Way	NW1 Wetland	Existing Transmission Line	Railroad	
Proposed Route Width	Freshwater Emergent Wetland	County Highway	Bike Trail	
Burnsville Substation Expansion	Freshwater Pond	State Highway	City Boundary	



0 150 300 Feet
1 inch = 300 feet

GREAT RIVERS
Watershed

For Environmental Review Purposes Only

Appendix A

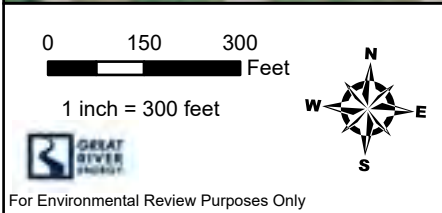
Pilot Knob to Burnsville Rebuild and Upgrade Project

Detailed Route Maps

Dakota County, Minnesota

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- | | | | |
|------------------------------------|-----------------------------------|-------------------------------|-----------------|
| Proposed Alignment | Freshwater Emergent Wetland | Existing Natural Gas Pipeline | Railroad |
| 70ft Right-of-Way | Freshwater Forested Wetland | Existing Transmission Line | Bike Trail |
| Proposed Route Width | Freshwater Pond | Local Park/Recreation Area | City Boundary |
| Burnsville Substation Expansion | Freshwater Shrub Wetland | County Highway | County Boundary |
| MDNR Hydrography Dataset Lake/Pond | Freshwater Shrub/Emergent Wetland | State Highway | |
| PWI Basin | | Interstate | |



Appendix A

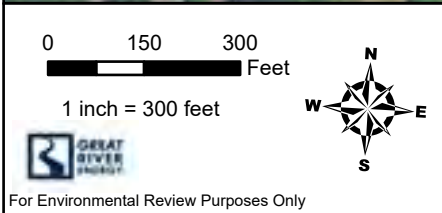
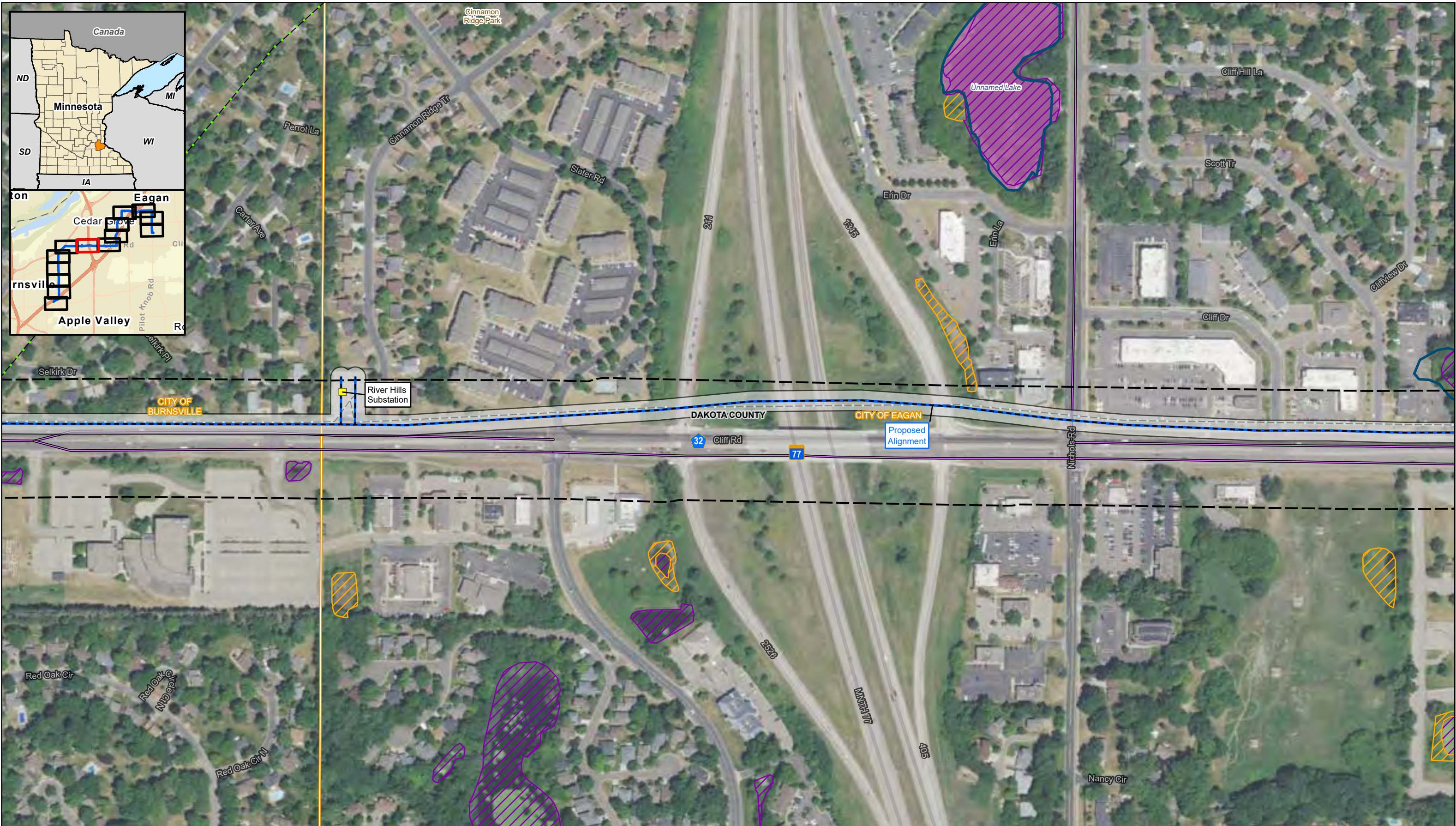
Pilot Knob to Burnsville Rebuild and Upgrade Project

Detailed Route Maps

Dakota County, Minnesota

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	Proposed Alignment		NWI Wetland		Existing Natural Gas Pipeline		Railroad
	70ft Right-of-Way		Freshwater Emergent Wetland		Existing Transmission Line		Local Park/Recreation Area
	Proposed Route Width		Freshwater Forested Wetland				County Highway
	Burnsville Substation Expansion		Freshwater Pond				State Highway
	MDNR Hydrography Dataset Lake/Pond		Freshwater Shrub Wetland				Interstate
	PWI Basin		Freshwater Shrub/Emergent Wetland				
							Bike Trail
							City Boundary
							County Boundary



Appendix A

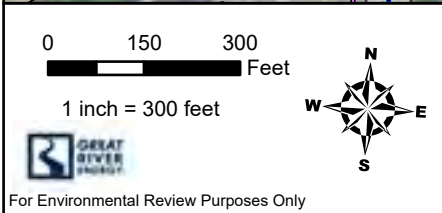
Pilot Knob to Burnsville Rebuild and Upgrade Project

Detailed Route Maps

Dakota County, Minnesota

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Proposed Alignment	MDNR Hydrography Dataset Lake/Pond	Existing Natural Gas Pipeline	Interstate
70ft Right-of-Way	PWI Basin	Existing Transmission Line	Railroad
Proposed Route Width	Freshwater Emergent Wetland	Local Park/Recreation Area	Bike Trail
Existing Substation	Freshwater Pond	County Highway	City Boundary
Burnsville Substation Expansion		State Highway	County Boundary



Appendix A

Pilot Knob to Burnsville Rebuild and Upgrade Project

Detailed Route Maps

Dakota County, Minnesota

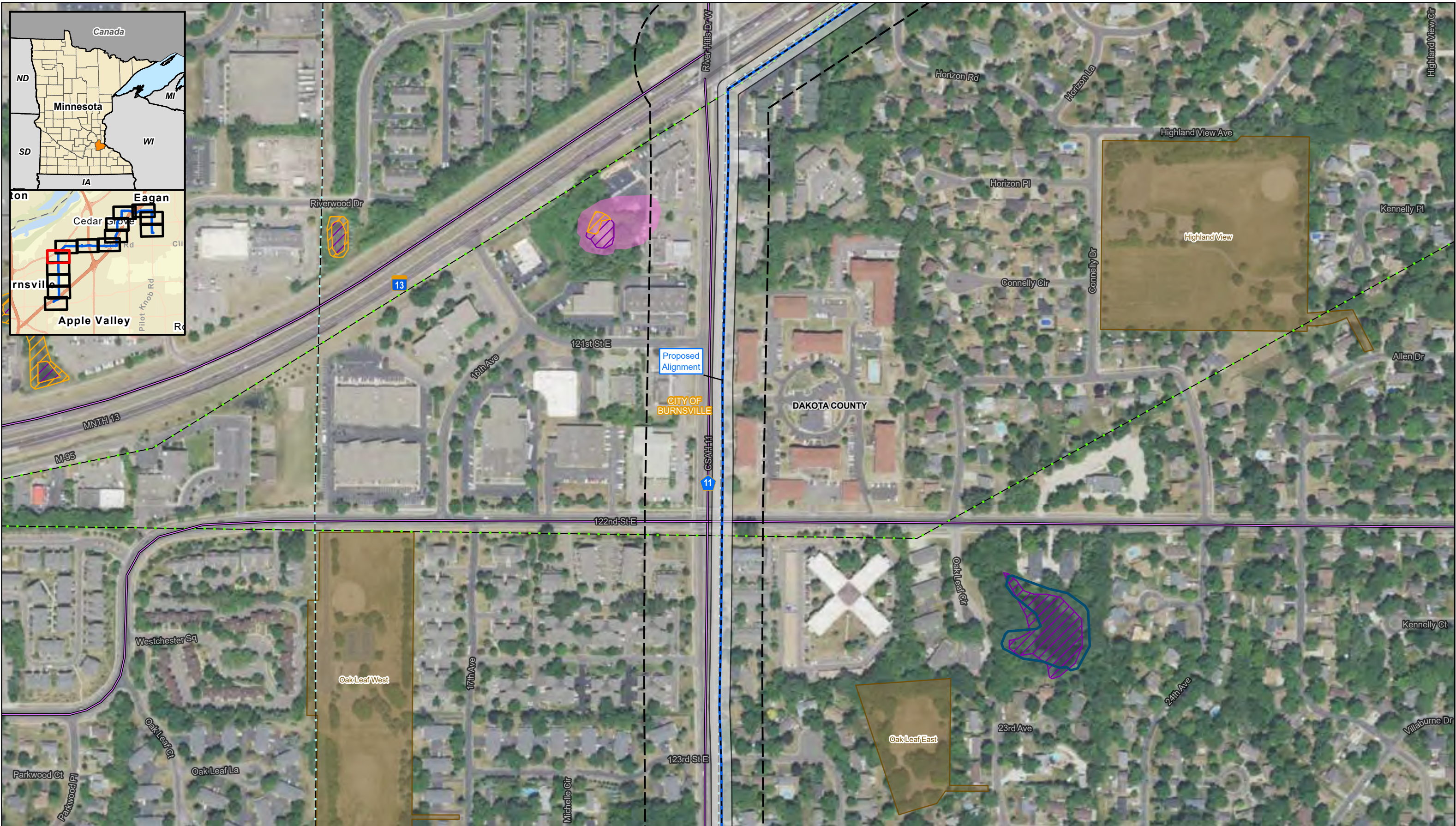
Page 9 of 14

- Proposed Alignment
- 70ft Right-of-Way
- Proposed Route Width
- Burnsville Substation Expansion
- MDNR Hydrography Dataset Lake/Pond

- PWI Basin
- NWI Wetland
- Freshwater Emergent Wetland
- Freshwater Pond
- Freshwater Shrub Wetland

- Existing Natural Gas Pipeline
- Existing Transmission Line
- Local Park/Recreation Area
- County Highway
- State Highway

- Interstate
- Railroad
- Bike Trail
- City Boundary
- County Boundary



0 150 300 Feet
1 inch = 300 feet
GREAT RIVER ENERGY SERVICES
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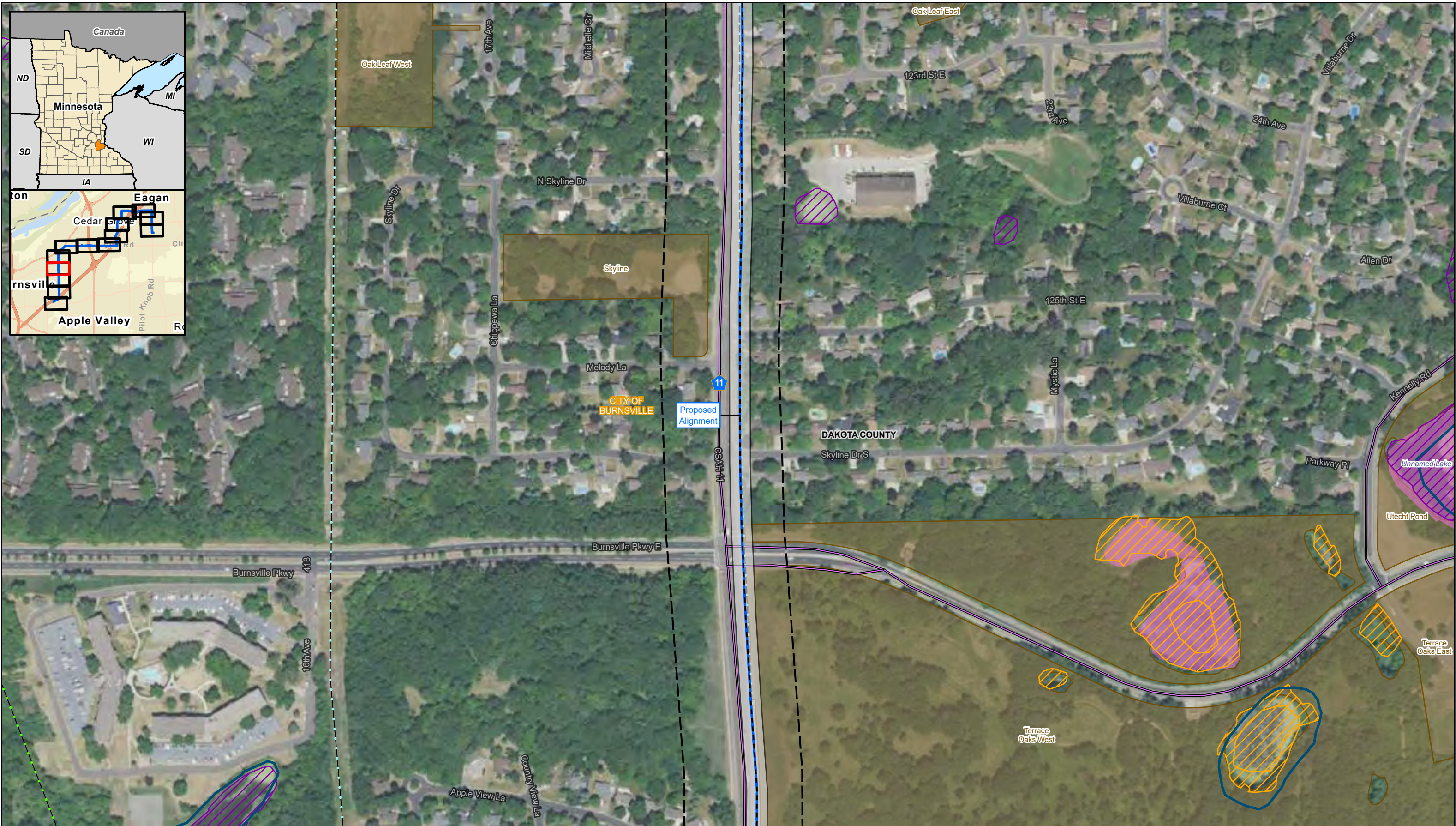
Appendix A

Pilot Knob to Burnsville Rebuild and Upgrade Project

Detailed Route Maps

Dakota County, Minnesota
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- | | | | |
|------------------------------------|-----------------------------|-------------------------------|-----------------|
| Proposed Alignment | PWI Basin | Existing Natural Gas Pipeline | Interstate |
| 70ft Right-of-Way | NWI Wetland | Existing Transmission Line | Railroad |
| Proposed Route Width | Freshwater Emergent Wetland | Local Park/Recreation Area | Bike Trail |
| Burnsville Substation Expansion | Freshwater Pond | County Highway | City Boundary |
| MDNR Hydrography Dataset Lake/Pond | | State Highway | County Boundary |



0150300

Feet

1 inch = 300 feet

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Appendix A

Pilot Knob to Burnsville Rebuild and Upgrade Project

Detailed Route Maps

Dakota County, Minnesota

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	Proposed Alignment		PWI Basin		Existing Natural Gas Pipeline		Interstate
	70ft Right-of-Way		NWI Wetland		Existing Transmission Line		Railroad
	Proposed Route Width		Freshwater Emergent Wetland		Local Park/Recreation Area		Bike Trail
	Burnsville Substation Expansion		Freshwater Pond		County Highway		City Boundary
	MDNR Hydrography Dataset Lake/Pond				State Highway		County Boundary



0150300

Feet

1 inch = 300 feet

For Environmental Review Purposes Only

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Appendix A

Pilot Knob to Burnsville Rebuild and Upgrade Project

Detailed Route Maps

Dakota County, Minnesota

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Proposed Alignment

70ft Right-of-Way

Proposed Route Width

Burnsville Substation Expansion

MDNR Hydrography Dataset Lake/Pond

PWI Basin

NWI Wetland

Freshwater Emergent Wetland

Freshwater Pond

Existing Natural Gas Pipeline

Existing Transmission Line

Local Park/Recreation Area

County Highway

State Highway

Interstate

Railroad

Bike Trail

City Boundary

County Boundary

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0150300

Feet

1 inch = 300 feet

For Environmental Review Purposes Only

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Appendix A

Pilot Knob to Burnsville Rebuild and Upgrade Project

Detailed Route Maps

Dakota County, Minnesota

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Proposed Alignment

70ft Right-of-Way

Proposed Route Width

Existing Substation

Burnsville Substation Expansion

MDNR Hydrography Dataset Lake/Pond

PWI Basin

Impaired Lake (2022)

NWI Wetland

Freshwater Emergent Wetland

Freshwater Forested Wetland

Freshwater Pond

Lake

Existing Natural Gas Pipeline

Existing Transmission Line

Local Park/Recreation Area

County Highway

State Highway

Interstate

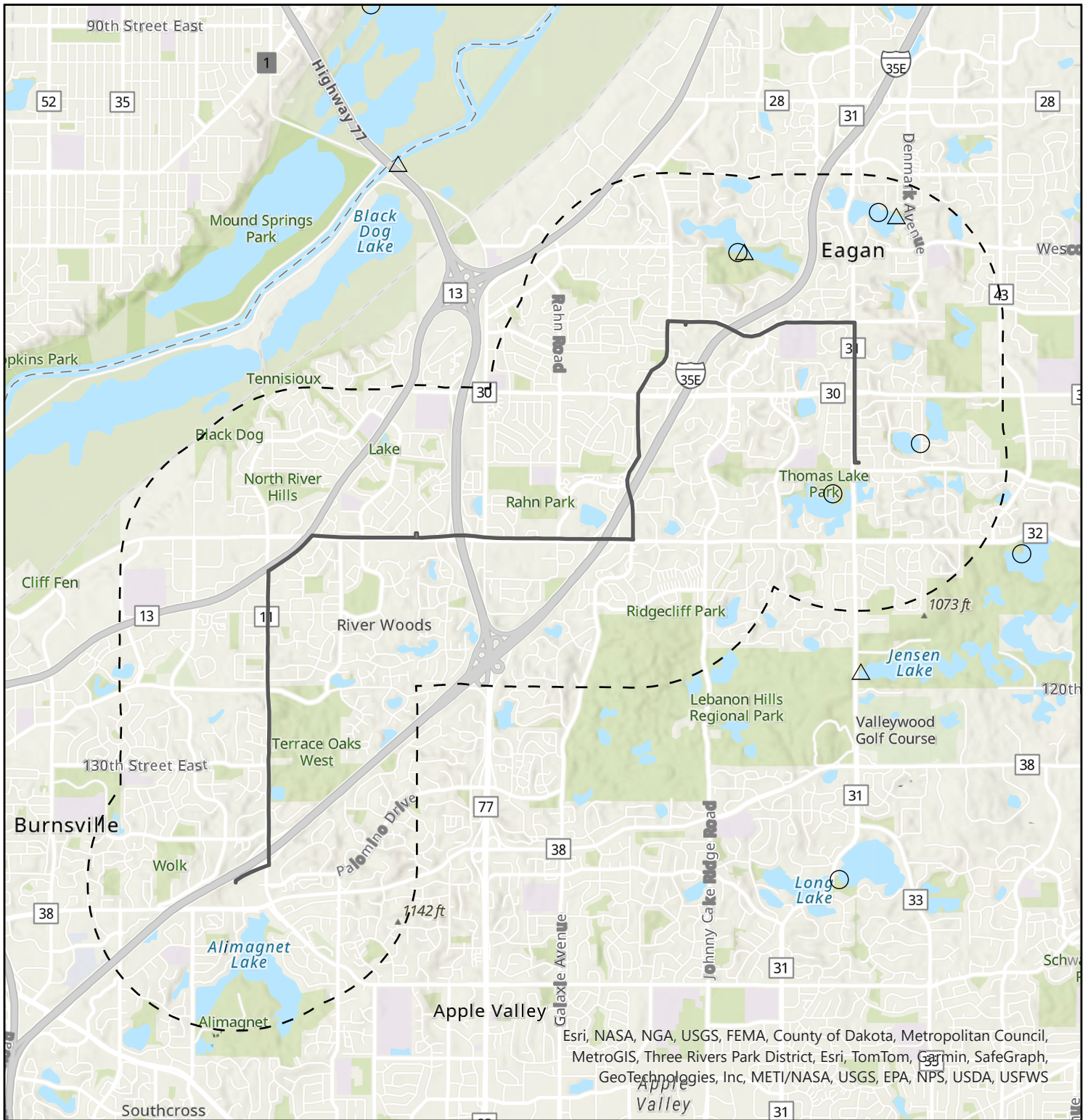
Railroad

Bike Trail

City Boundary

County Boundary

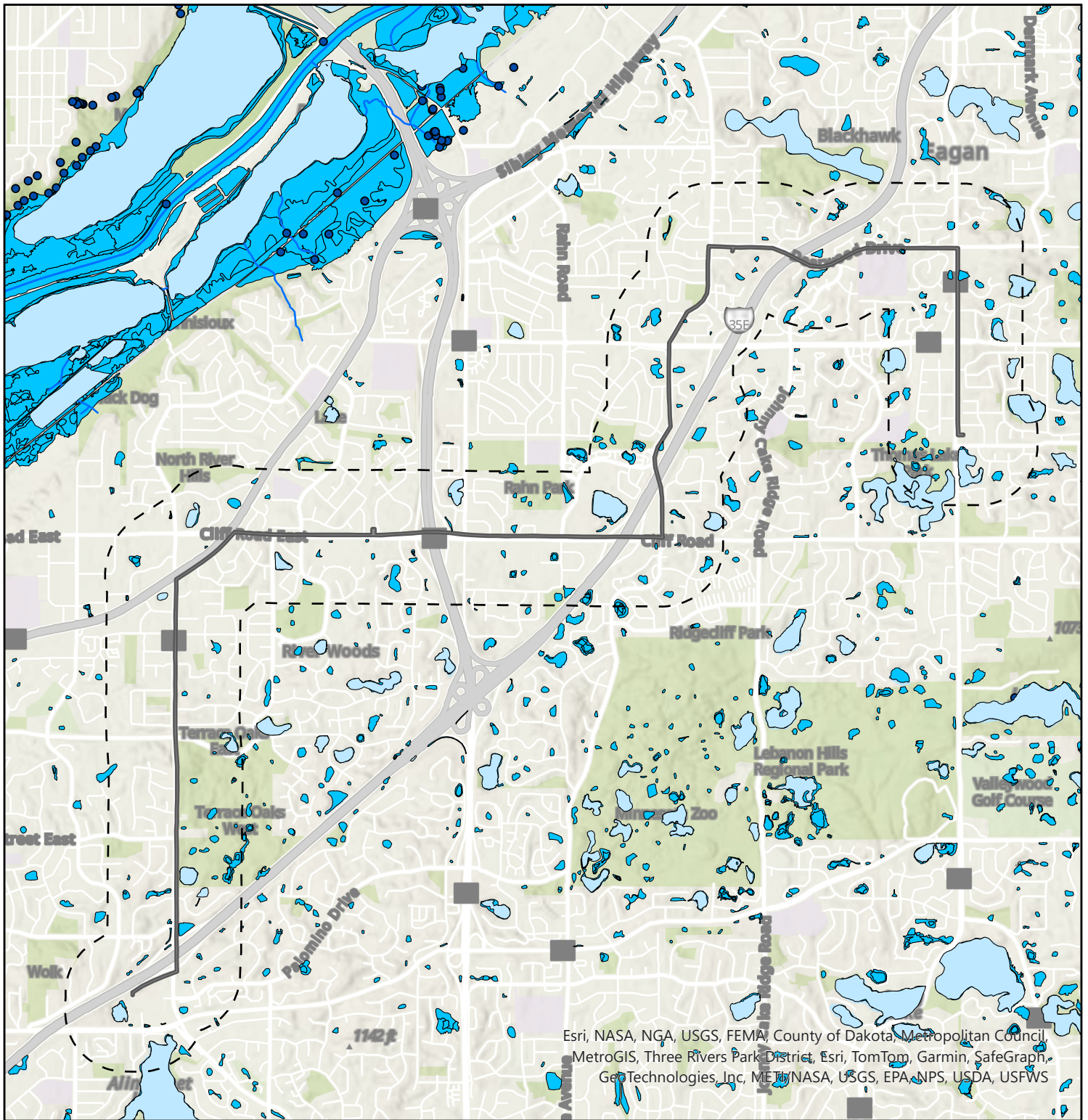
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Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project

Legend

- Pilot Knob Rebuild and Upgrade Project
- Project Area (1 mile)
- Public Fishing Access
- Public Water Access



Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project

- Project Vicinity (1600 ft)
- Water Basin
- Spring
- Stream
- Wetland
- Pilot Knob Rebuild and Upgrade Project

Figure 3 Surface Water Resources
in the Project Vicinity

