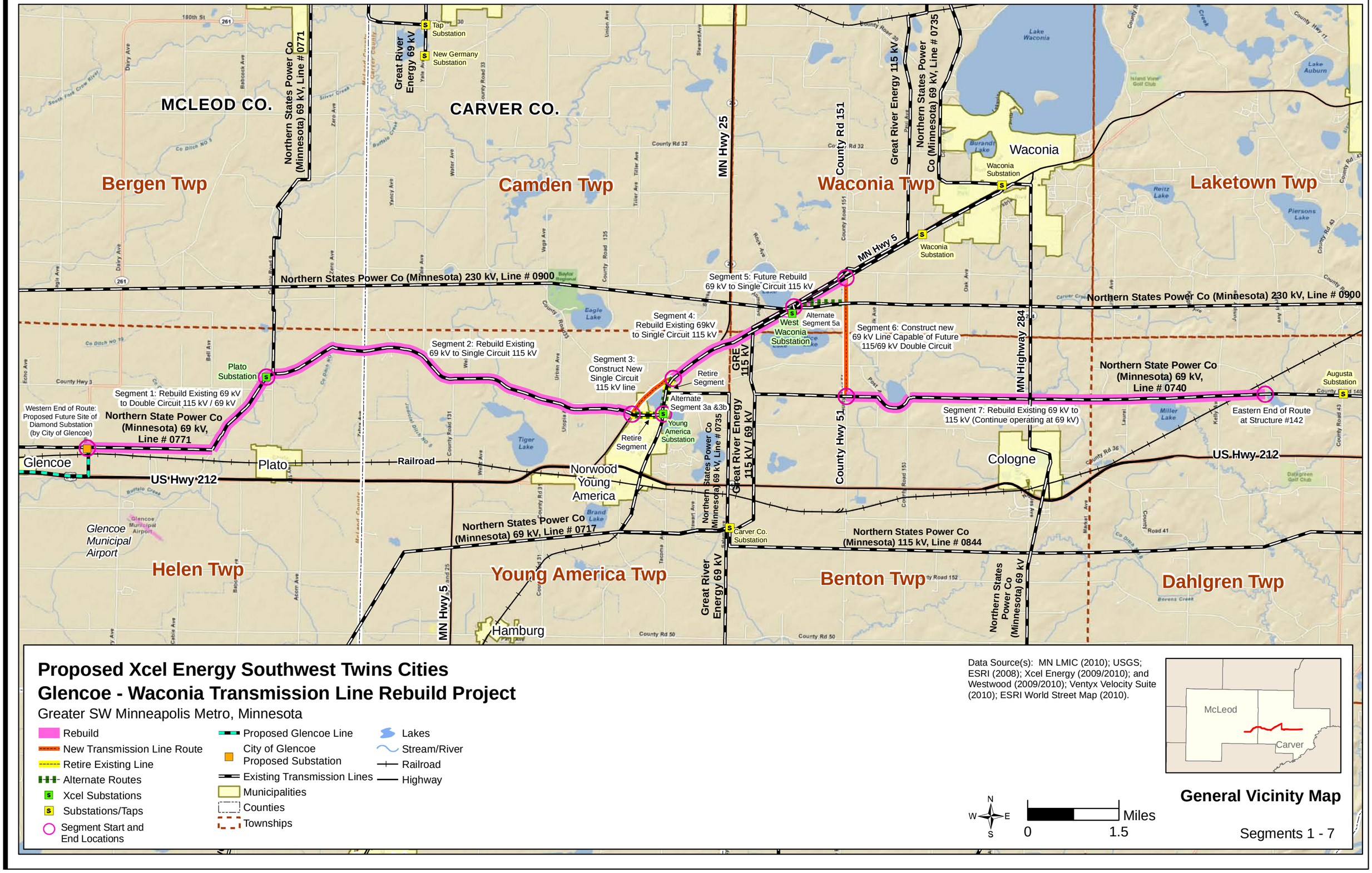
APPENDIX B

MAPS



Proposed Xcel Energy Southwest Twins Cities
Glencoe - Waconia Transmission Line Rebuild Project

Greater SW Minneapolis Metro, Minnesota

- Rebuild
- New Transmission Line Route
- Retire Existing Line
- Alternate Routes
- Xcel Substations
- Substations/Taps
- Segment Start and End Locations
- Proposed Glencoe Line
- City of Glencoe Proposed Substation
- Existing Transmission Lines
- Municipalities
- Counties
- Townships
- Lakes
- Stream/River
- Railroad
- Highway

Data Source(s): MN LMIC (2010); USGS; ESRI (2008); Xcel Energy (2009/2010); and Westwood (2009/2010); Ventyx Velocity Suite (2010); ESRI World Street Map (2010).

General Vicinity Map

N W E S

0 1.5 Miles

Segments 1 - 7

Map Document: (P:\2009\1075\gis\RPA\West_Section\101005\2009\1075Wproj\02B_GenLoc.mxd)
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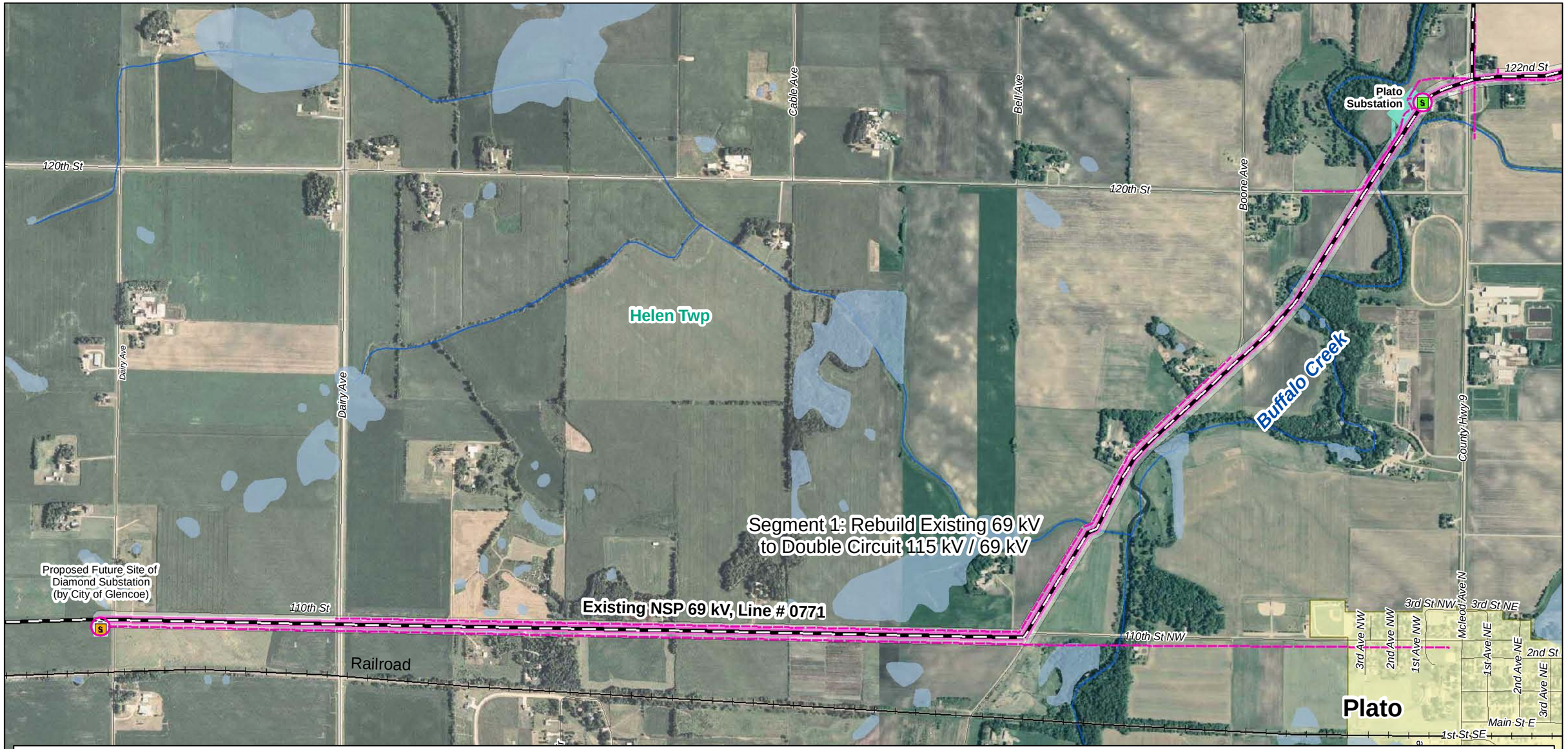


Proposed Xcel Energy Southwest Twins Cities
Glencoe - Waconia Transmission Line Rebuild Project

Greater SW Minneapolis Metro, Minnesota

- Rebuild
- New Transmission Line Route
- Retire Existing Line
- Alternate Routes
- Existing Transmission Lines
- OH Primary
- Xcel Substations
- City of Glencoe Proposed Substation
- Segment Start and End Locations
- Switch
- Substations/Taps
- Proposed Route Width (200ft & 400ft)
- General Area of Plato Substation Upgrade

Hydrography

- NWI Wetlands (within 2 miles)
- Lakes
- Public Water Inventory
- Stream/River

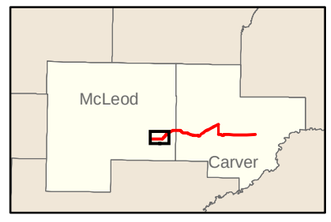
Base

- Counties
- Municipalities
- Township
- Highway
- Railroad

N W E S

0 0.25 Miles

Data Source(s): MN LMIC Imagery (2008), MNDNR PWI (2008), MNDOT (2004), USGS NHD (2008), USFWS NWI (1997), ESRI Transportation (2009), Xcel (2010).



General Vicinity Map

Segment 1

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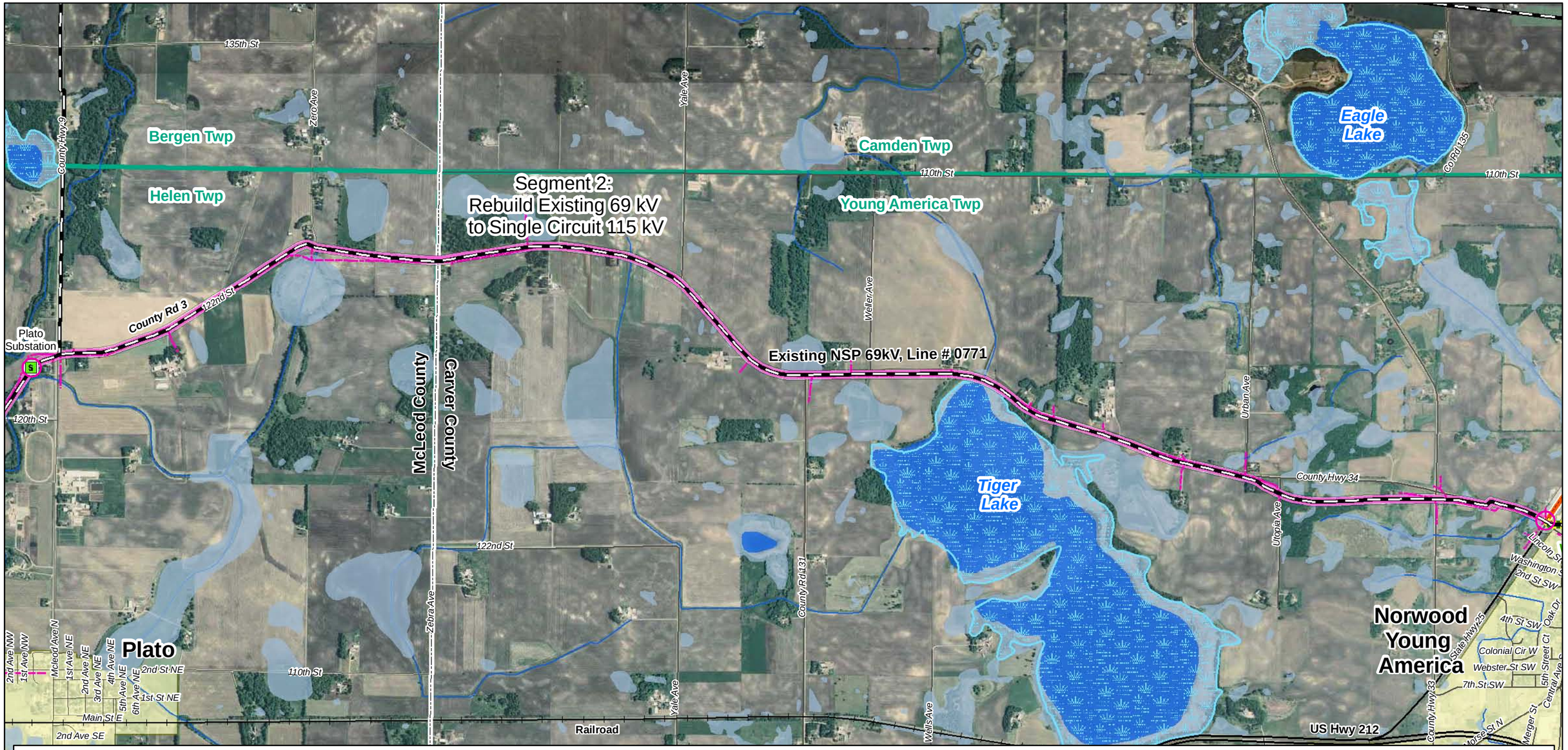


Proposed Xcel Energy Southwest Twins Cities Glencoe - Waconia Transmission Line Rebuild Project

Greater SW Minneapolis Metro, Minnesota

N
W E
S

0 0.25 Miles

Data Source(s): MN LMIC Imagery (2008), MNDNR PWI (2008), MNDOT (2004), USGS NHD (2008), USFWS NWI (1997), ESRI Transportation (2009), Xcel (2010).

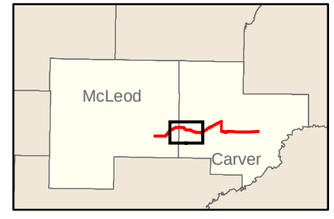
- Rebuild
- New Transmission Line Route
- Retire Existing Line
- Alternate Routes
- Existing Transmission Lines
- OH Primary
- Xcel Substations
- Segment Start and End Locations
- Switch
- Substations/Taps
- Proposed Route Width (200ft & 400ft)

Hydrography

- NWI Wetlands (within 2 miles)
- Lakes
- Public Water Inventory
- Stream/River

Base

- Counties
- Municipalities
- Township
- Highway
- Railroad



General Vicinity Map

Segment 2

Map Document: (P:\2009\1075\gis\RPA\West_Section\101029\20091075Wproj\02B_Segment2.mxd)
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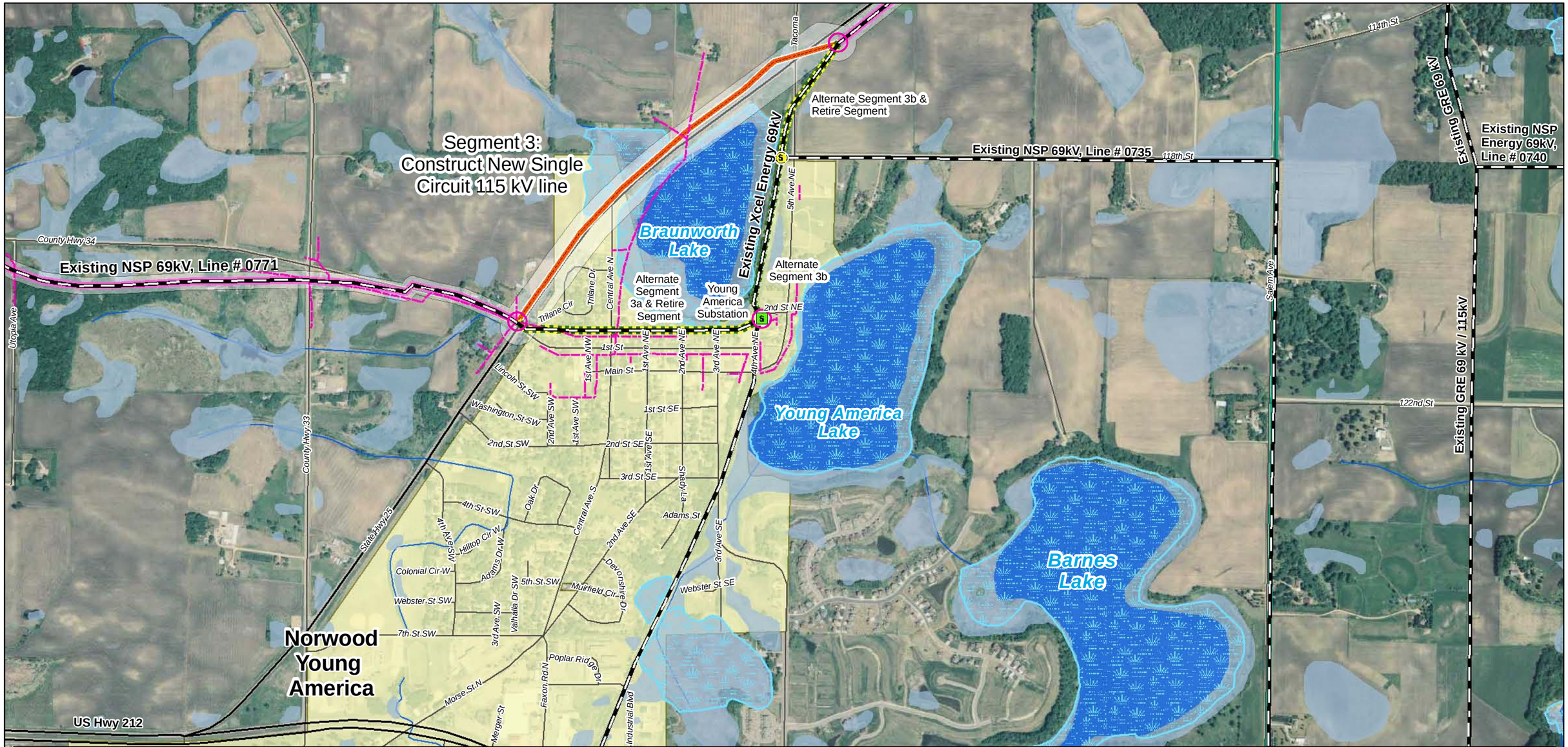


Proposed Xcel Energy Southwest Twins Cities Glencoe - Waconia Transmission Line Rebuild Project

Greater SW Minneapolis Metro, Minnesota

N W E S

0 0.1 Miles

Data Source(s): MN LMIC Imagery (2008), MNDNR PWI (2008), MNDOT (2004), USGS NHD (2008), USFWS NWI (1997), ESRI Transportation (2009), Xcel (2010).

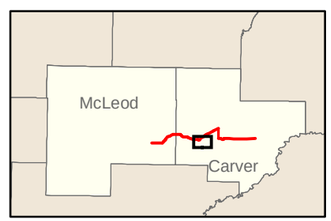
- Rebuild
- New Transmission Line Route
- Retire Existing Line
- Alternate Routes
- Existing Transmission Lines
- OH Primary
- Xcel Substations
- Segment Start and End Locations
- Switch
- Substations/Taps
- Proposed Route Width (200ft & 400ft)

Hydrography

- NWI Wetlands (within 2 miles)
- Lakes
- Public Water Inventory
- Stream/River

Base

- Counties
- Municipalities
- Township
- Highway
- Railroad



General Vicinity Map

Segment 3

Map Document: (P:\20091075\gis\RPA\West_Section\101029\20091075Wproj\02B_Segment3.mxd)
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Proposed Xcel Energy Southwest Twins Cities Glencoe - Waconia Transmission Line Rebuild Project

Greater SW Minneapolis Metro, Minnesota

N W E S

0 0.1 Miles

Data Source(s): MN LMIC Imagery (2008), MNDNR PWI (2008), MNDOT (2004), USGS NHD (2008), USFWS NWI (1997), ESRI Transportation (2009), Xcel (2010).

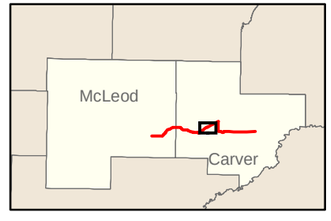
- Rebuild
- New Transmission Line Route
- Retire Existing Line
- Alternate Routes
- Existing Transmission Lines
- OH Primary
- Xcel Substations
- Segment Start and End Locations
- Switch
- Substations/Taps
- Proposed Route Width (200ft & 400ft)

Hydrography

- NWI Wetlands (within 2 miles)
- Lakes
- Public Water Inventory
- Stream/River

Base

- Counties
- Municipalities
- Township
- Highway
- Railroad



General Vicinity Map

Segment 4

Map Document: (P:\2009\1075\gis\RPA\West_Section\101029\20091075Wproj02B_Segment4.mxd)
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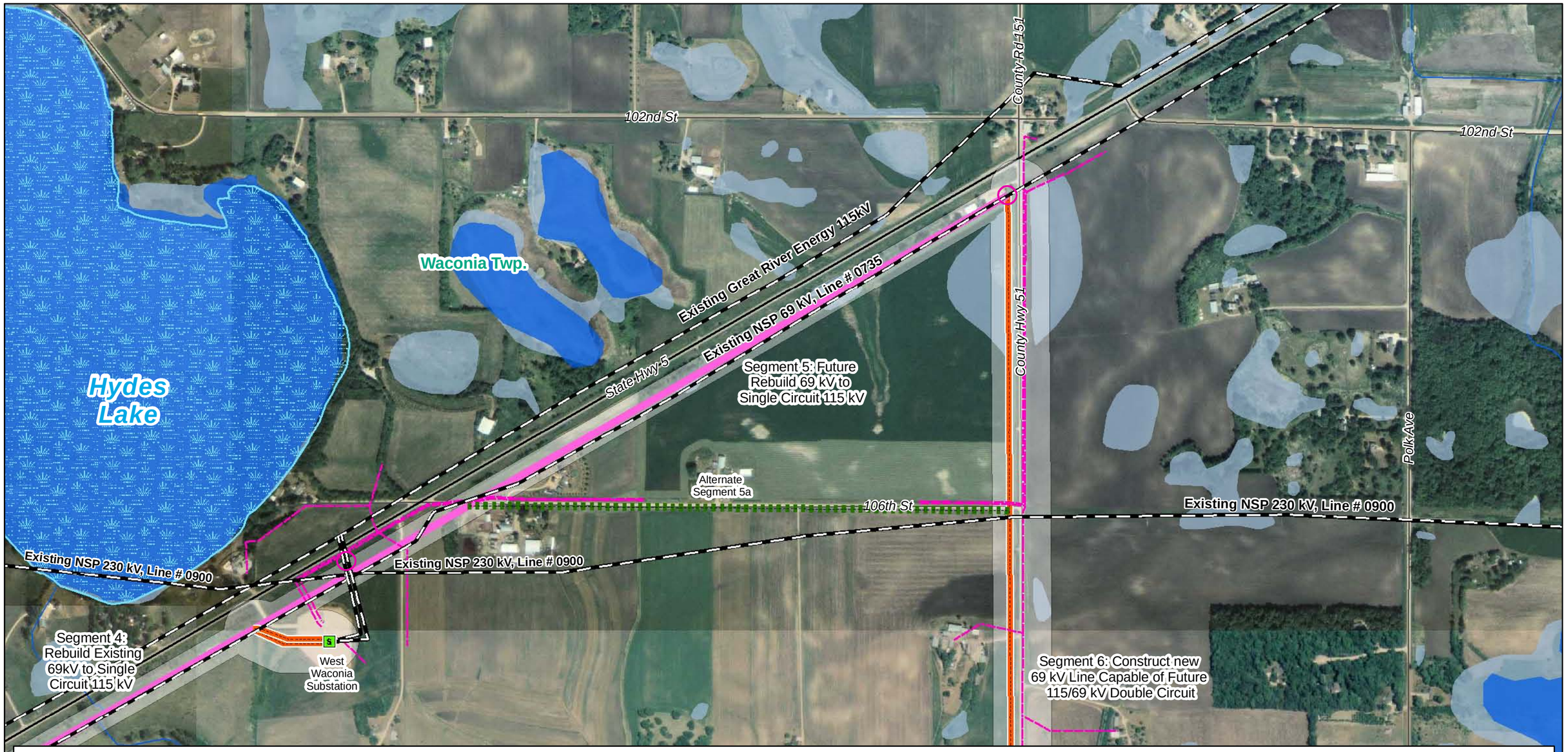


Proposed Xcel Energy Southwest Twins Cities Glencoe - Waconia Transmission Line Rebuild Project

Greater SW Minneapolis Metro, Minnesota

N W E S

0 0.1 Miles

Data Source(s): MN LMIC Imagery (2008), MNDNR PWI (2008), MNDOT (2004), USGS NHD (2008), USFWS NWI (1997), ESRI Transportation (2009), Xcel (2010).

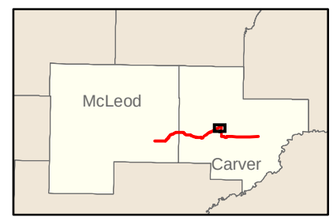
- Rebuild
- New Transmission Line Route
- Retire Existing Line
- Alternate Routes
- Existing Transmission Lines
- OH Primary
- Xcel Substations
- Segment Start and End Locations
- Switch
- Substations/Taps
- Proposed Route Width (200ft & 400ft)

Hydrography

- NWI Wetlands (within 2 miles)
- Lakes
- Public Water Inventory
- Stream/River

Base

- Counties
- Municipalities
- Township
- Highway
- Railroad



General Vicinity Map

Segment 5

Map Document: (P:\2009\1075\gis\RPA\West_Section\101029\20091075Wproj\02B_Segment5.mxd)
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Proposed Xcel Energy Southwest Twins Cities Glencoe - Waconia Transmission Line Rebuild Project

Greater SW Minneapolis Metro, Minnesota

Segment 5: Future Rebuild 69 kV to Single Circuit 115 kV

Existing NSP 69 kV, Line # 0735

Existing CRE 115kV

Alternate Segment 5a

Segment 4: Rebuild Existing 69kV to Single Circuit 115 kV

Existing NSP 230 kV, Line # 0900

Segment 6: Construct new 69 kV Line Capable of Future 115/69 kV Double Circuit

West Waconia Substation

Hydes Lake

Rice Lake

Winkler Lake

Barlous Lake

Khauer

Camden Twp.

Waconia Twp.

Young America Twp.

Benton Twp.

Sunset Rd

State Hwy 25

Rome Ave

State Highway 5

106th St

102nd St

Orchard Rd

Oak Ave

Anthony La

Polk Ave

110th St

114th St

118th St

County Hwy 51

County Rd 153

Existing NSP 69kV, Line # 0740

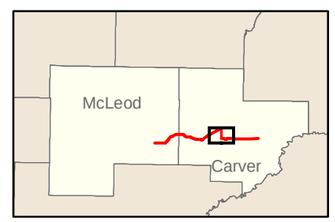
Segment 7: Rebuild Existing 69kV to Single Circuit 115 kV (Continue operating at 69 kV)

Existing NSP 69 kV, Line # 0740

N W E S

0 0.25 Miles

Data Source(s): MN LMIC Imagery (2008), MNDNR PWI (2008), MNDOT (2004), USGS NHD (2008), USFWS NWI (1997), ESRI Transportation (2009), Xcel (2010).



General Vicinity Map

Segment 6

- Rebuild
- New Transmission Line Route
- Retire Existing Line
- Alternate Routes
- Existing Transmission Lines
- OH Primary
- Xcel Substations
- Segment Start and End Locations
- Switch
- Substations/Taps
- Proposed Route Width (200ft & 400ft)

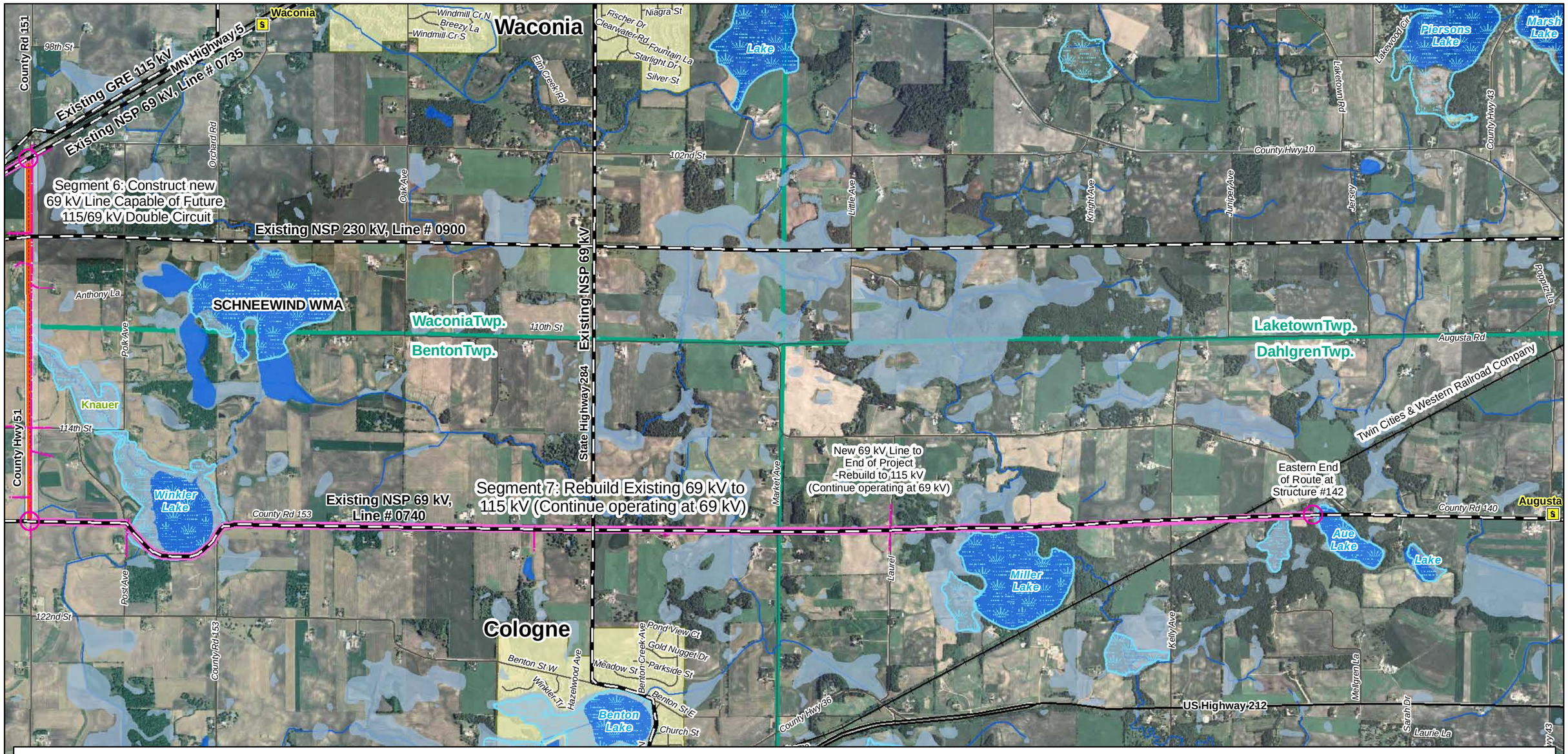
Hydrography

- NWI Wetlands (within 2 miles)
- Lakes
- Public Water Inventory
- Stream/River

Base

- Counties
- Municipalities
- Township
- Highway
- Railroad

Map Document: (P:\2009\1075\gis\RPA\West_Section\101029\20091075Wproj02B_Segment6.mxd) 10/29/2010 – 3:44:16 PM



Proposed Xcel Energy Southwest Twins Cities Glencoe - Waconia Transmission Line Rebuild Project

Greater SW Minneapolis Metro, Minnesota

N
W E
S

0 0.25 Miles

Data Source(s): MN LMIC Imagery (2008), MNDNR PWI (2008), MNDOT (2004), USGS NHD (2008), USFWS NWI (1997), ESRI Transportation (2009), Xcel (2010).

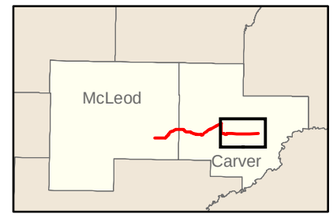
- Rebuild
- New Transmission Line Route
- Retire Existing Line
- Alternate Routes
- Existing Transmission Lines
- OH Primary
- Xcel Substations
- Segment Start and End Locations
- Switch
- Substations/Taps
- Proposed Route Width (200ft & 400ft)

Hydrography

- NWI Wetlands (within 2 miles)
- Lakes
- Public Water Inventory
- Stream/River

Base

- Counties
- Municipalities
- Township
- Highway
- Railroad



General Vicinity Map

Segment 7

Map Document: (P:\20091075\gis\RPA\West_Section\101029\20091075\wproj\02B_Segment7.mxd)
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