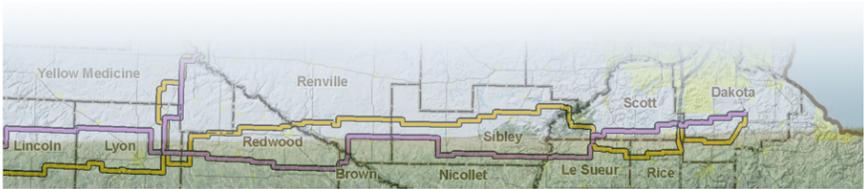
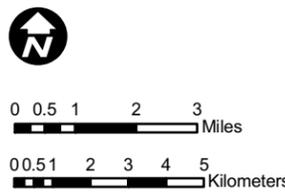
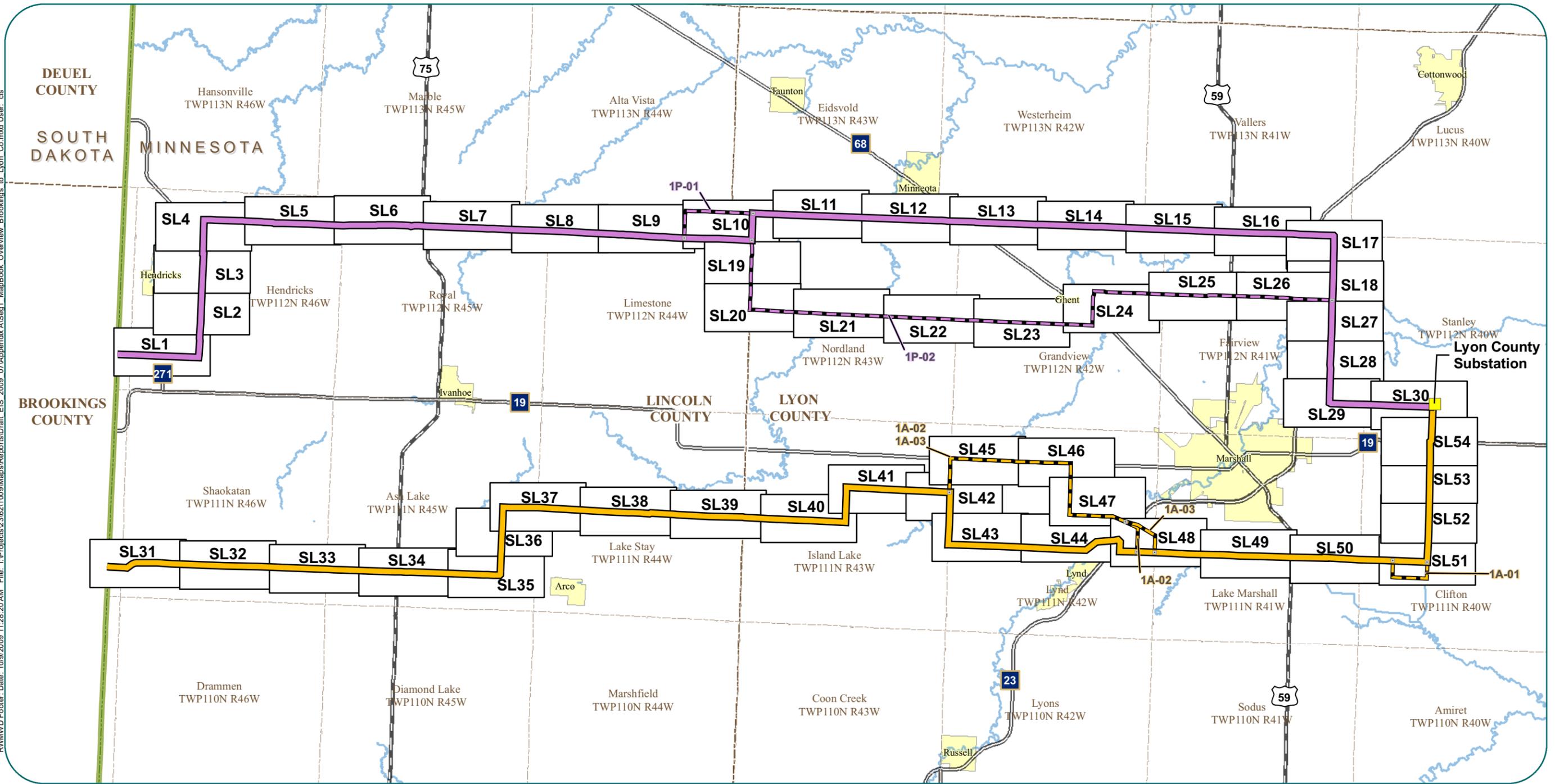


Appendix A—Detailed Map Supplement



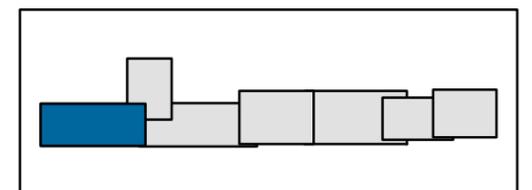
A DVD version is available upon request or can be viewed on the Public Utilities Commission's website at: <http://energyfacilities.puc.state.mn.us/Docket.html?id=19860>

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- SL1 Map Index
- Project Substations
- Alternate Substation Area
- Preferred Substation Area
- Original Alignments
- Preferred Route
- Alternate Route
- Additional Alternative Routes
- Variation on Preferred Route
- Variation on Alternate Route
- Variation on Both
- Minnesota State Line
- County Boundaries

Appendix A - Overview Map
Segment 1,
Brookings County to Lyon County Substation



Refer to Appendix B for information on data sources



- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

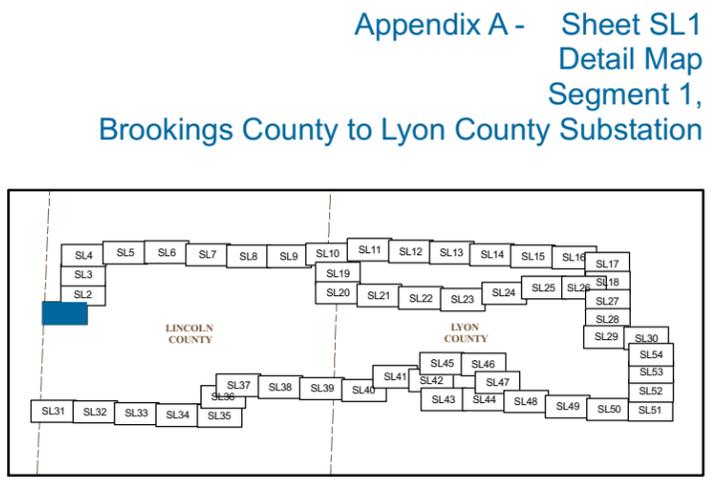
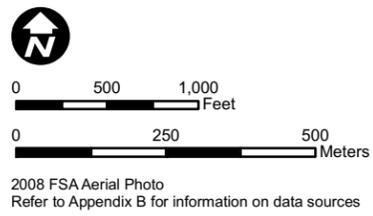
- Project Substations**
- Proposed Substation Areas
 - Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- MN DNR Natural Heritage**
- Airport
 - Organic Farms
 - Center Pivot Irrigation
 - Botanical
 - Ecological
 - Zoological
 - Botanical
 - Ecological
 - Zoological
 - MCBS Biodiversity Significance
 - Moderate Significance
 - High Significance
 - Outstanding Significance
 - State-Designated RR Prairie

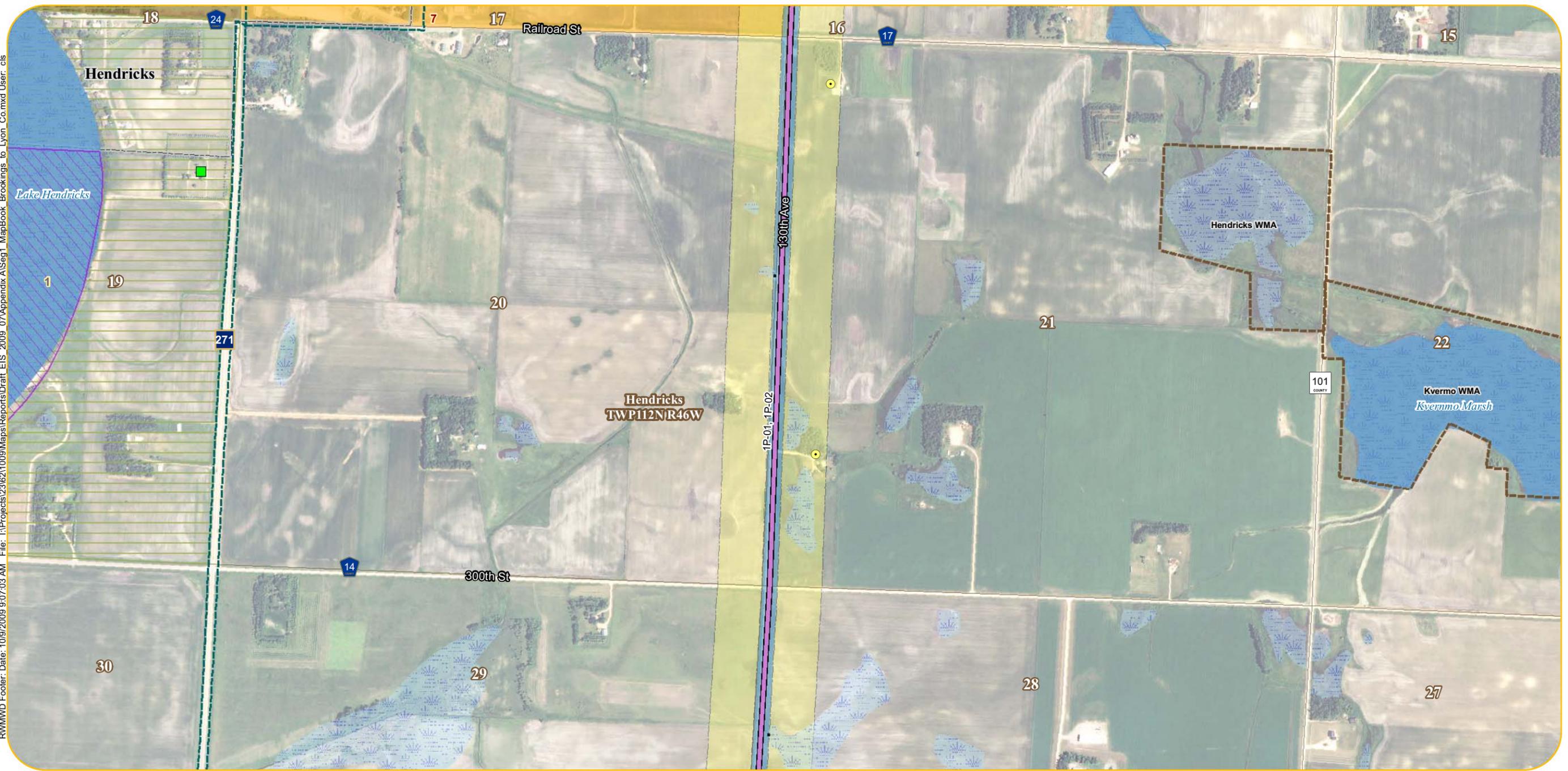
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NW1)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

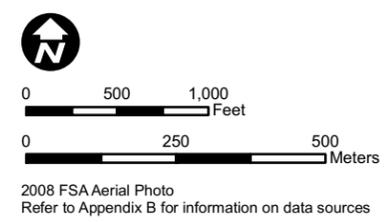
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



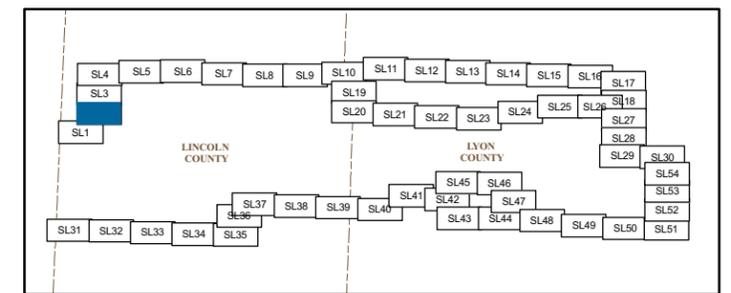
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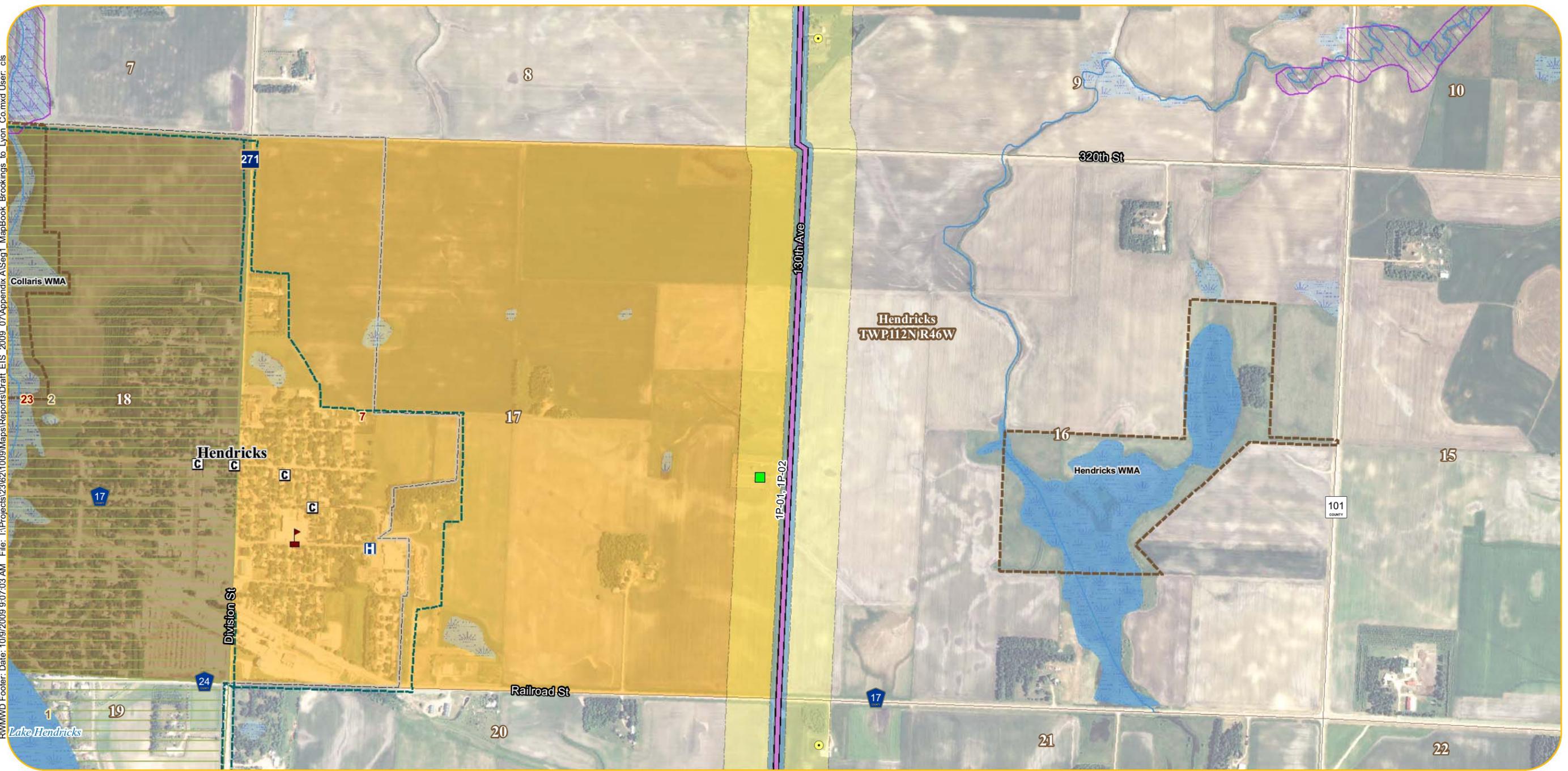
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|--|--|--|--|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
|--|--|--|--|--|--|



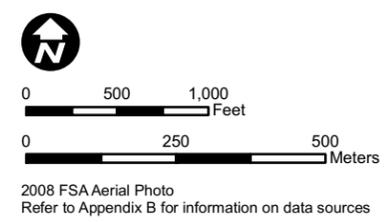
Appendix A - Sheet SL2
Detail Map
Segment 1,
Brookings County to Lyon County Substation



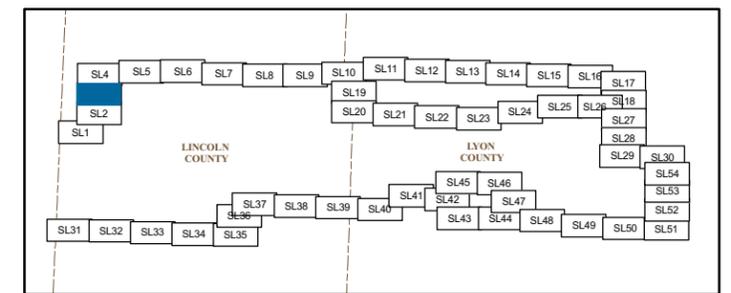
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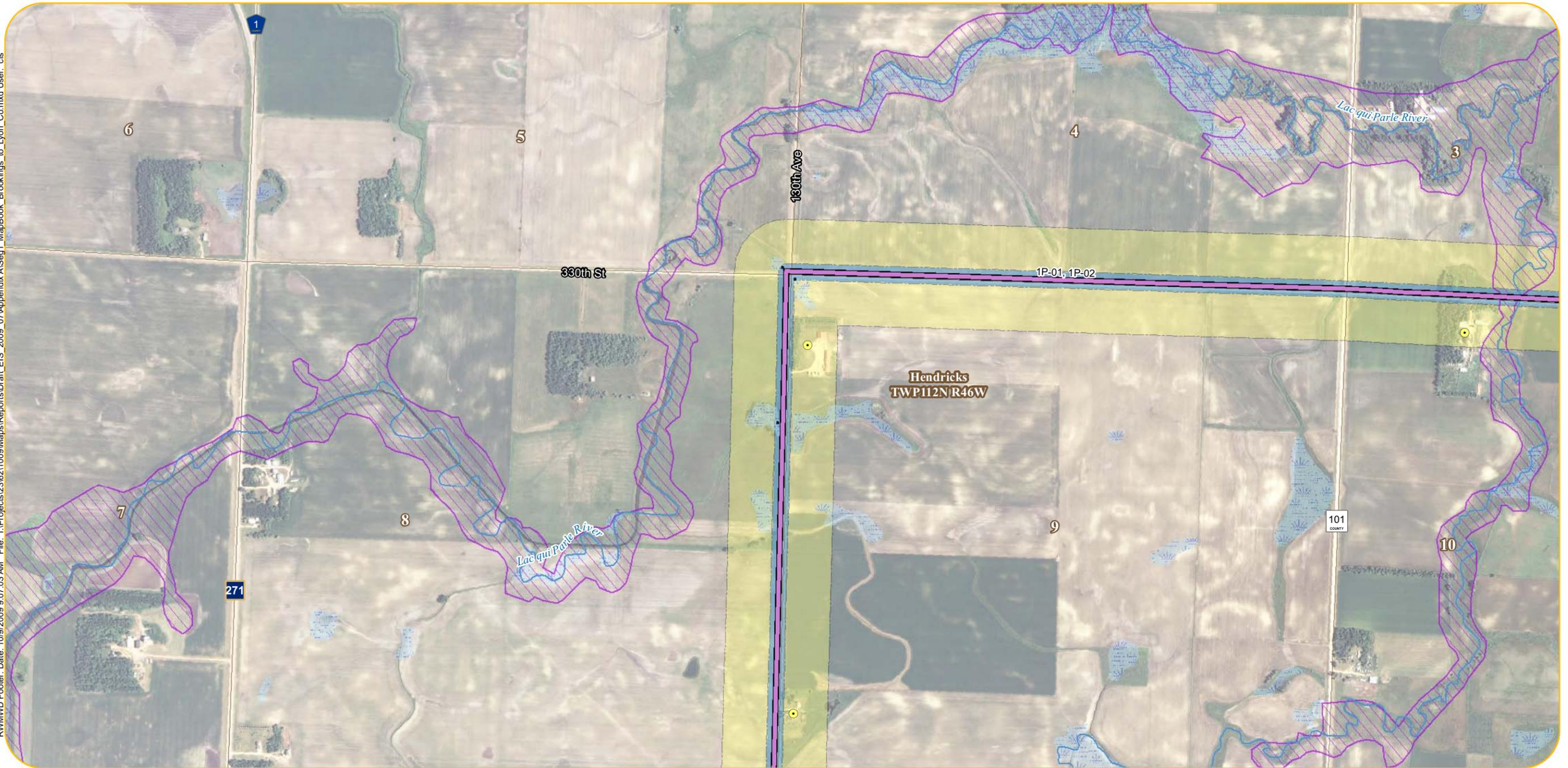


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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
|--|--|--|--|--|--|



Appendix A - Sheet SL3
Detail Map
Segment 1,
Brookings County to Lyon County Substation





- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

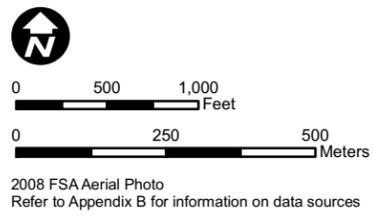
- Airport
- Organic Farms
- Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological
- Botanical
- Ecological
- Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
- High Significance
- Outstanding Significance
- State-Designated RR Prairie

- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

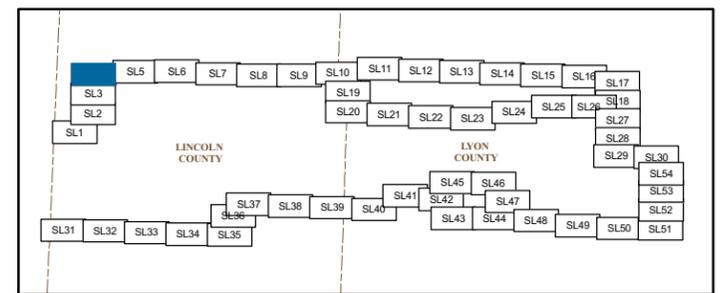
- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4

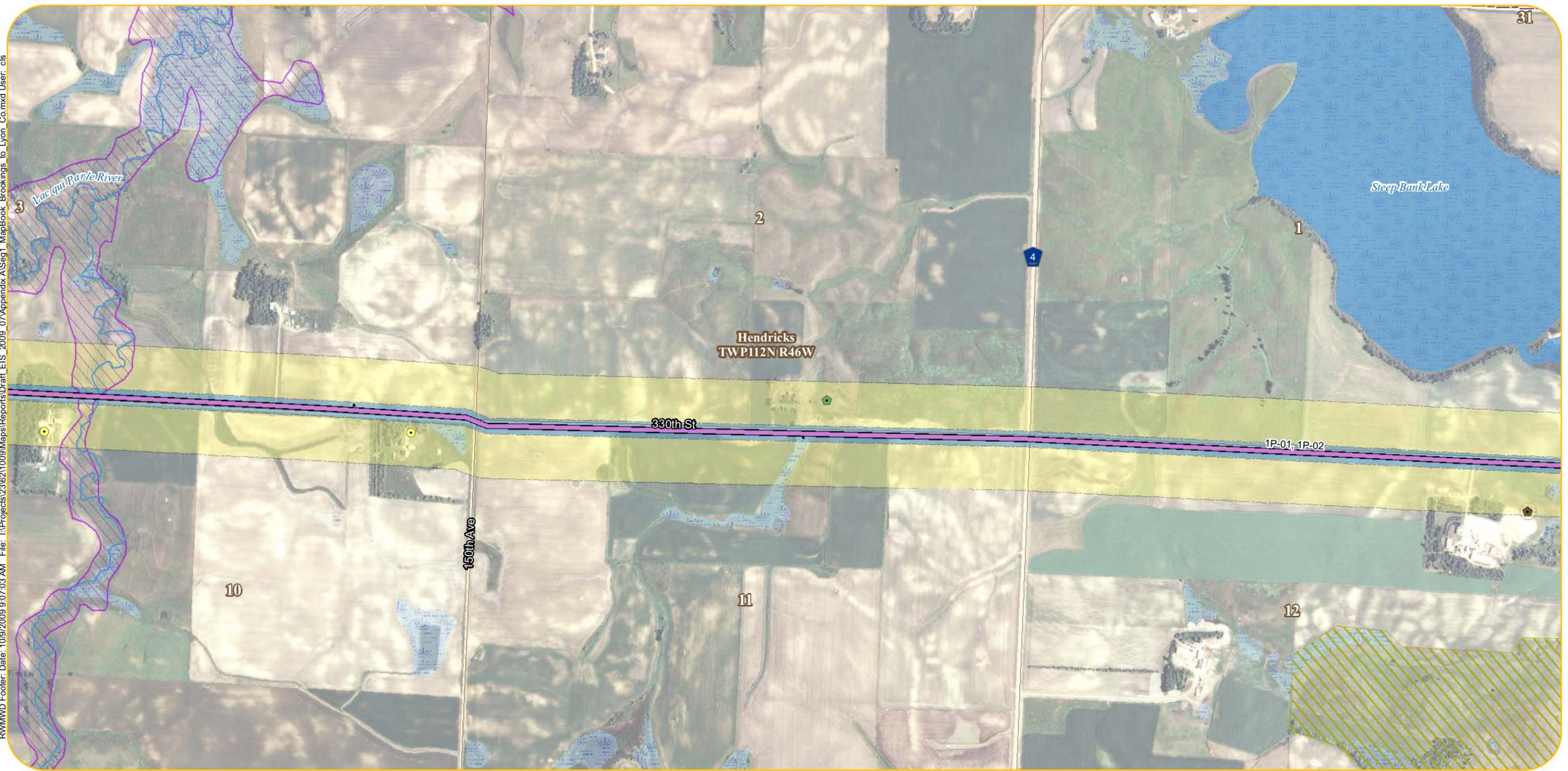
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL4
Detail Map
Segment 1,
Brookings County to Lyon County Substation

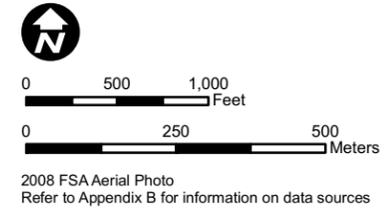


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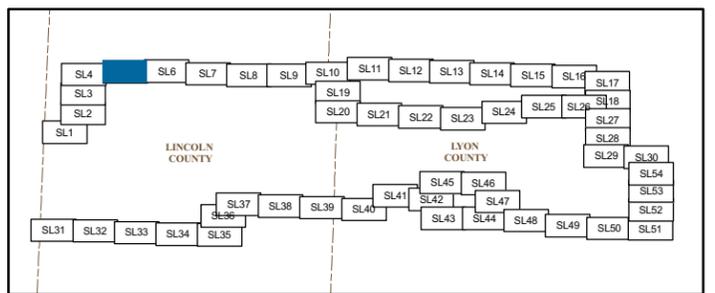


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|--|--|---|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <p> Airport</p> <p> Organic Farms</p> <p> Center Pivot Irrigation</p> <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological Botanical Ecological Zoological <p>MCBS Biodiversity Significance</p> <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance | <p> Recreation Area</p> <ul style="list-style-type: none"> Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
|--|--|---|--|--|

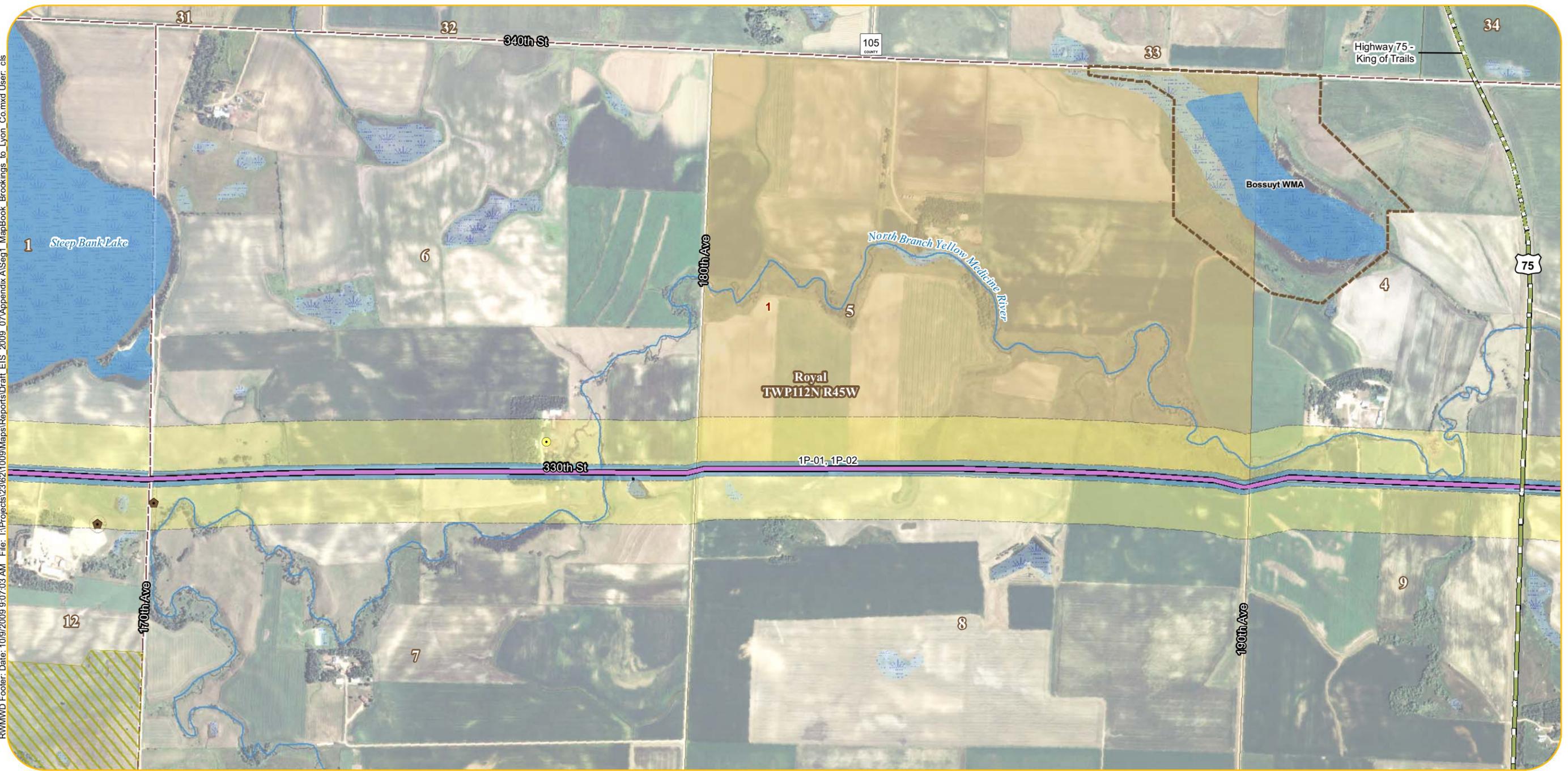
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL5
Detail Map
Segment 1,
Brookings County to Lyon County Substation



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- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

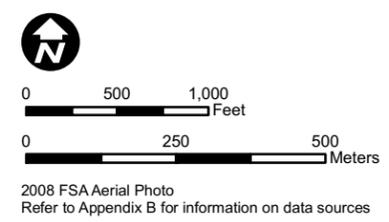
- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport
- Organic Farms
- Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
- High Significance
- Outstanding Significance
- State-Designated RR Prairie

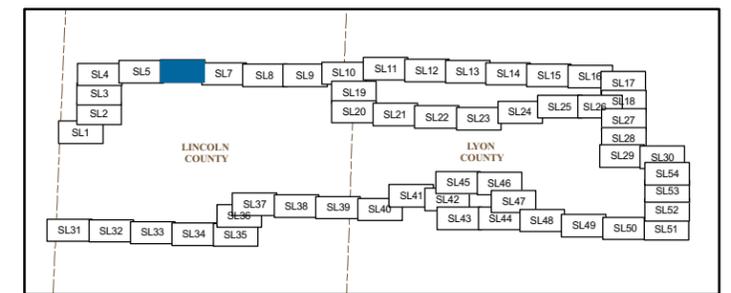
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

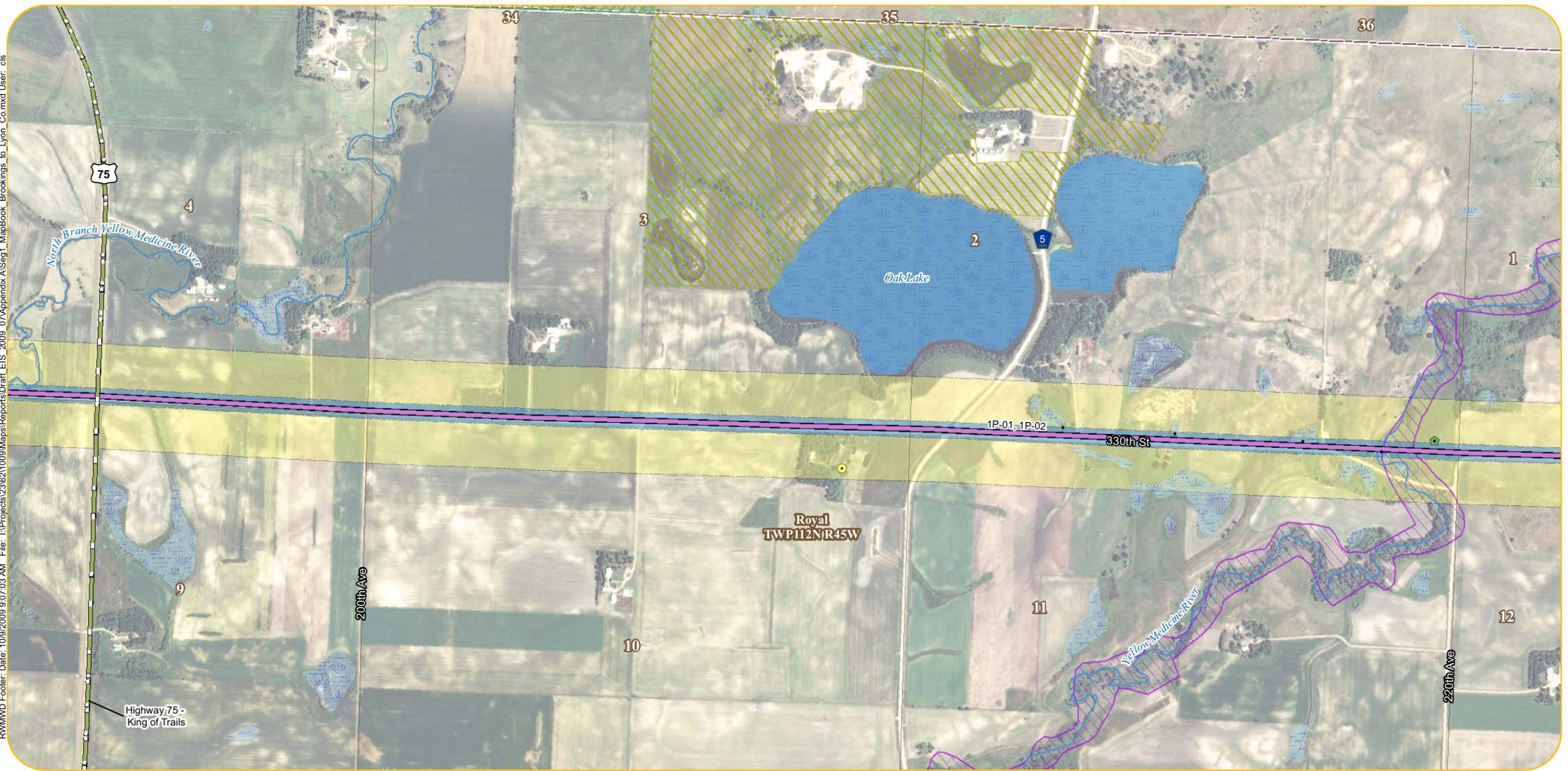
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



**Appendix A - Sheet SL6
Detail Map
Segment 1,
Brookings County to Lyon County Substation**



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- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

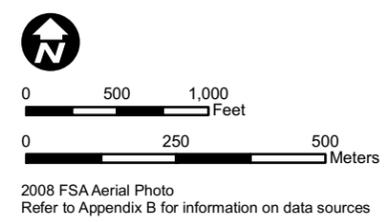
- Project Substations**
- Proposed Substation Areas
 - Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- MN DNR Natural Heritage**
- Botanical
 - Ecological
 - Zoological
 - Botanical
 - Ecological
 - Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance

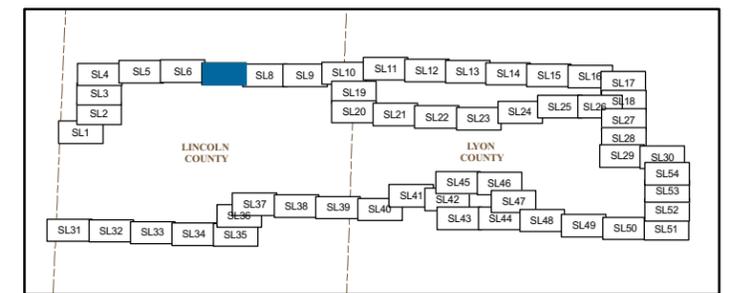
- Recreation Area**
- Regional Existing Trail
 - Regional Planned Trail
 - Regional Proposed Trail
 - State Existing Trail
 - Snowmobile Trail
 - Scenic Byway
 - Regional Park
 - Scientific & Natural Area
 - State Park
 - State Recreation Area
 - State Wayside
 - Wildlife Management Area
 - Wildlife Refuge
 - Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NW1)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

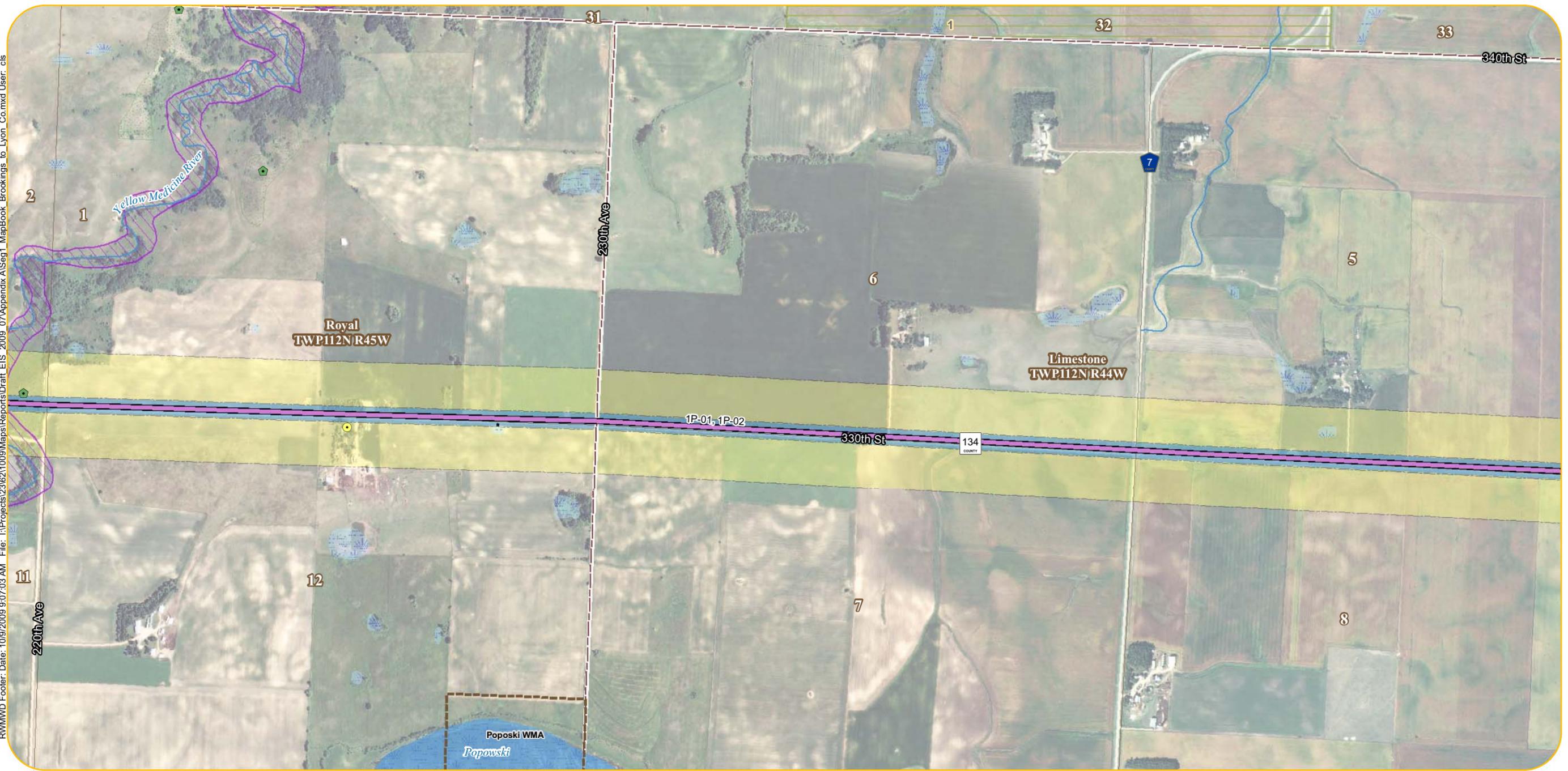
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL7
Detail Map
Segment 1,
Brookings County to Lyon County Substation

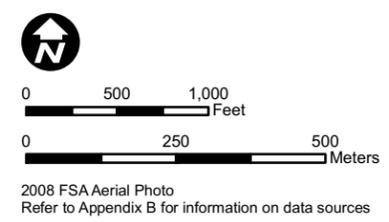


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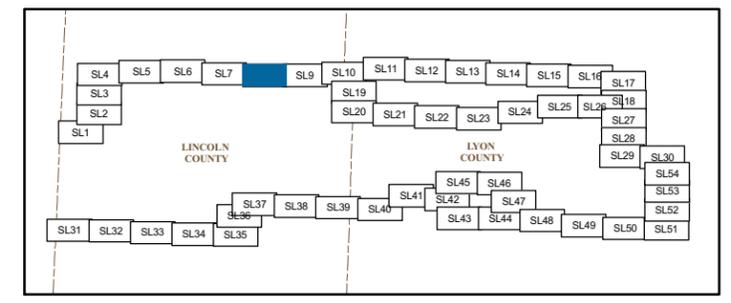


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|--|--|--|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
|--|--|--|--|--|

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL8
Detail Map
Segment 1,
Brookings County to Lyon County Substation



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- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

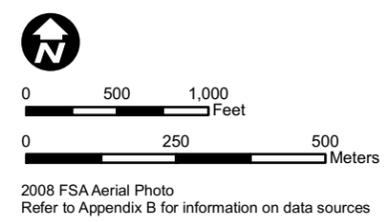
- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport
- Organic Farms
- Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological
- Botanical
- Ecological
- Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
- High Significance
- Outstanding Significance
- State-Designated RR Prairie

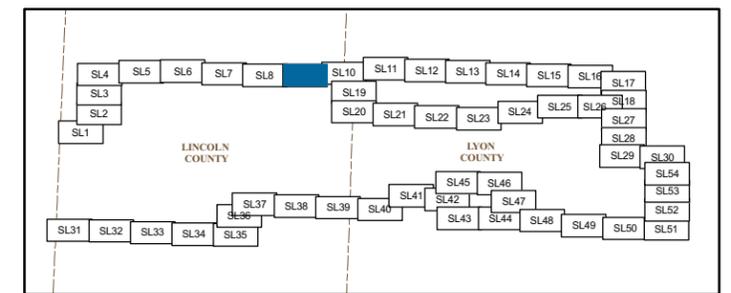
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

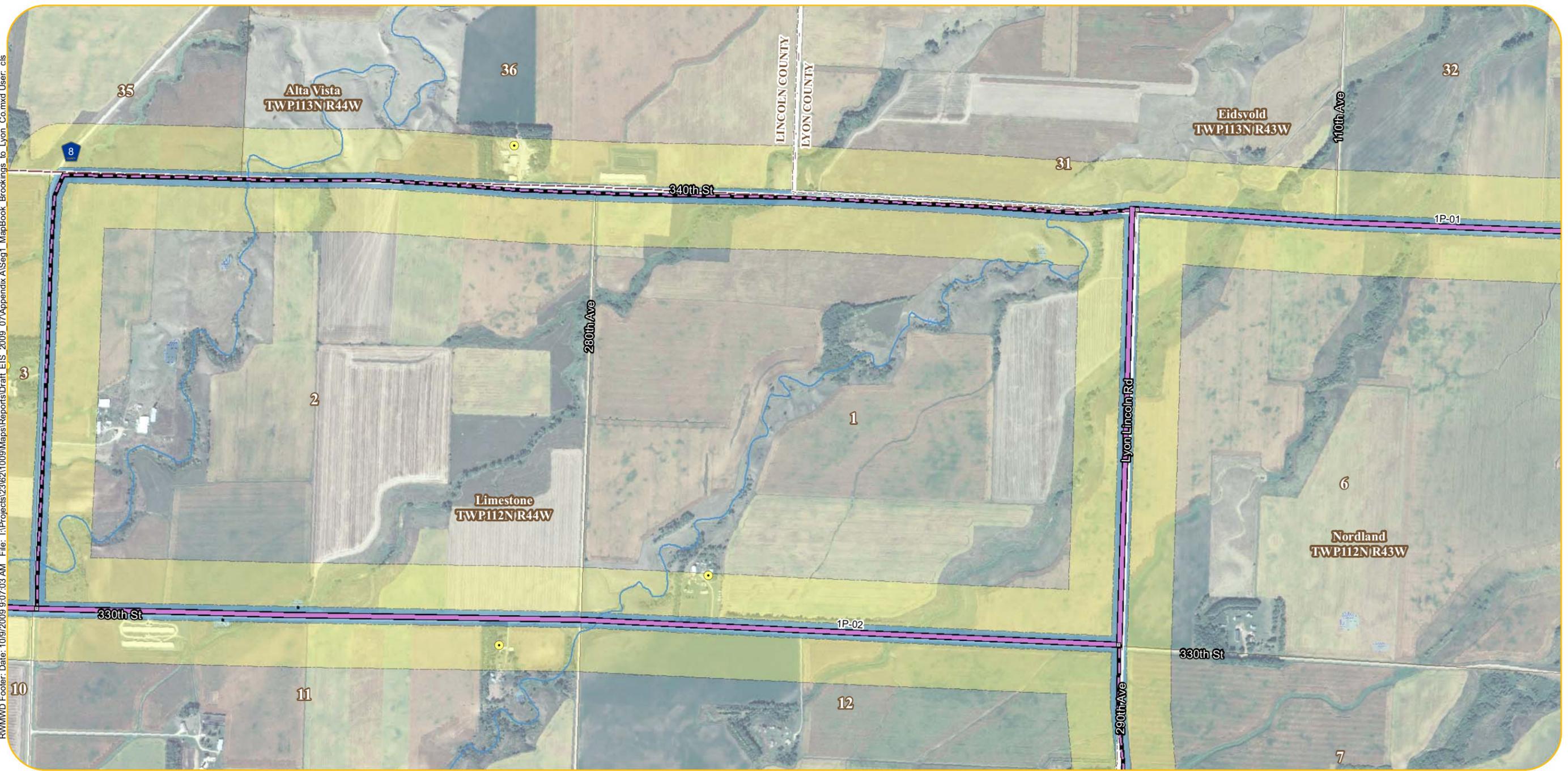
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



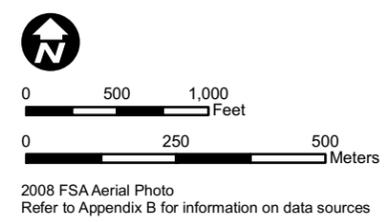
**Appendix A - Sheet SL9
Detail Map
Segment 1,
Brookings County to Lyon County Substation**



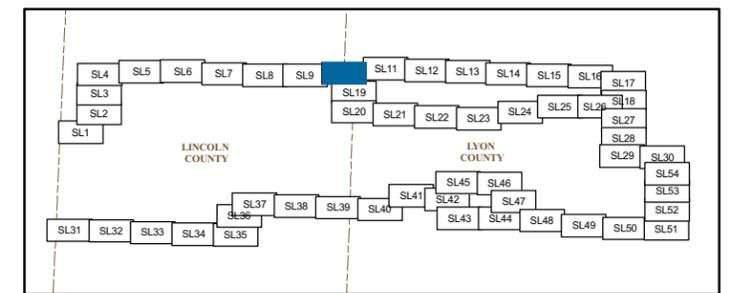
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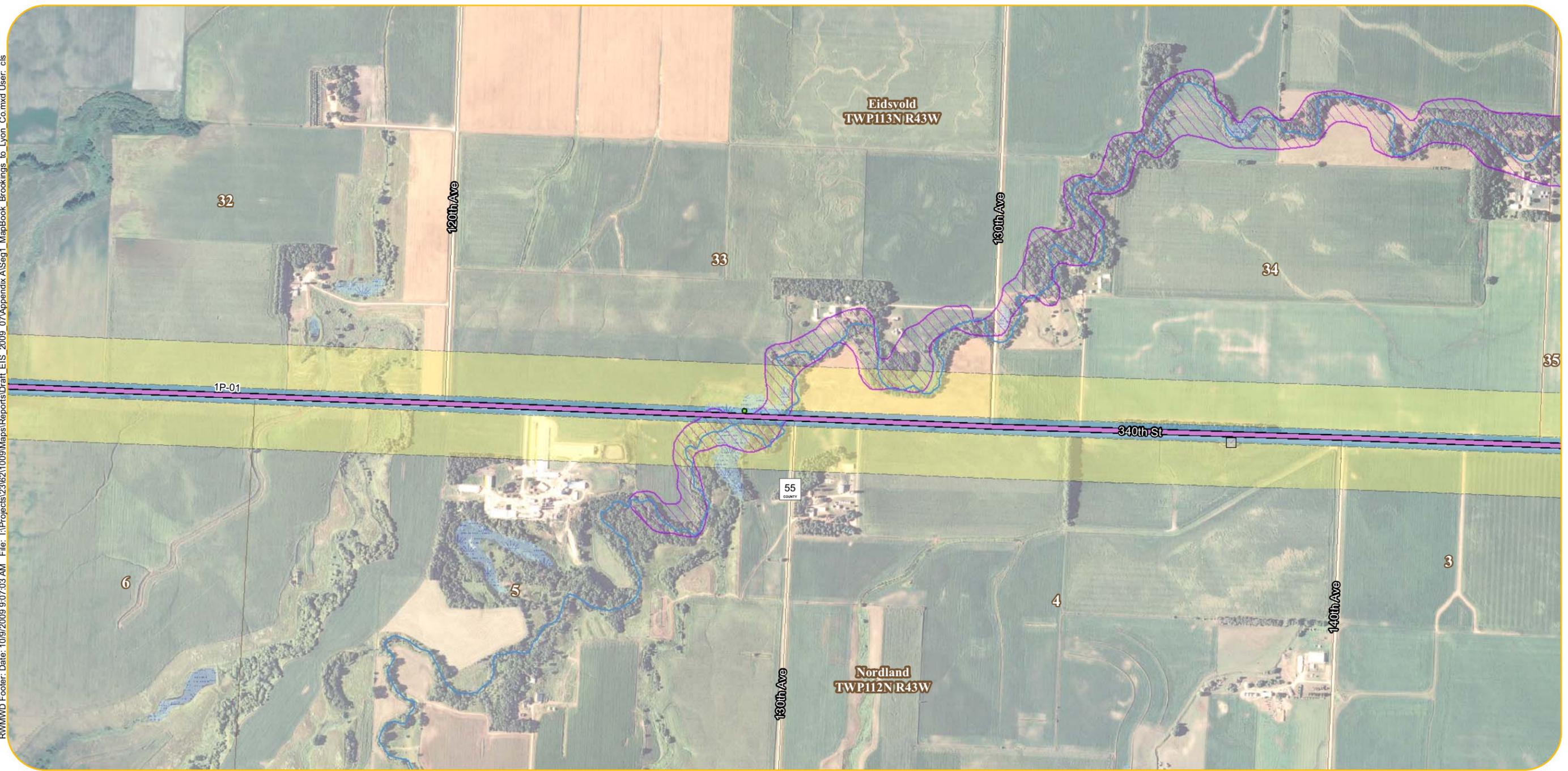
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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
|--|--|--|--|--|--|



Appendix A - Sheet SL10
Detail Map
Segment 1,
Brookings County to Lyon County Substation

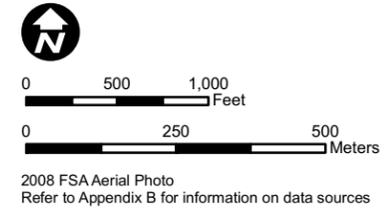


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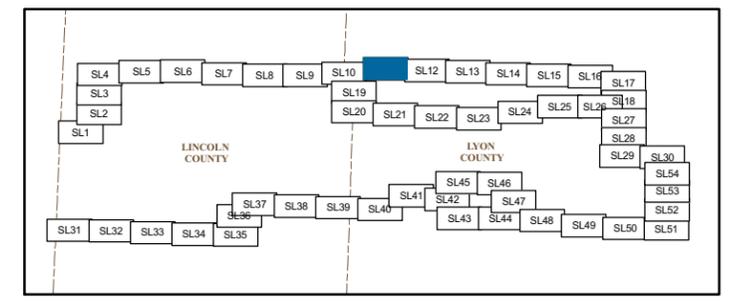


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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <p> Airport</p> <p> Organic Farms</p> <p> Center Pivot Irrigation</p> <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological Botanical Ecological Zoological <p>MCBS Biodiversity Significance</p> <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <p> Recreation Area</p> <p> Regional Existing Trail</p> <p> Regional Planned Trail</p> <p> Regional Proposed Trail</p> <p> State Existing Trail</p> <p> Snowmobile Trail</p> <p> Scenic Byway</p> <p> Regional Park</p> <p> Scientific & Natural Area</p> <p> State Park</p> <p> State Wayside</p> <p> Wildlife Management Area</p> <p> Wildlife Refuge</p> <p> Tribal Land</p> | <p> Fish Technology Center</p> <p> Fisheries Research Station</p> <p> National Fish Hatchery</p> <p> National Wildlife Refuge</p> <p> Waterfowl Production Area</p> <p> Q3 FEMA Floodplain</p> <p> Trout Streams</p> <p> Wild and Scenic Rivers</p> <p> Wetland (NWI)</p> <p> Designated Wildlife Lakes</p> <p> Public Waters Inventory Basins</p> <p> Public Water Inventory Watercourse</p> <p> Wetland Crossings > 1,000 Feet</p> |
|--|--|---|---|---|

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL11
Detail Map
Segment 1,
Brookings County to Lyon County Substation

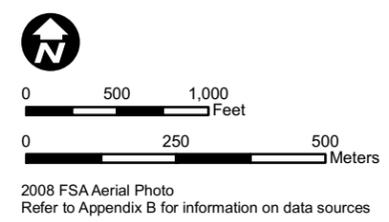


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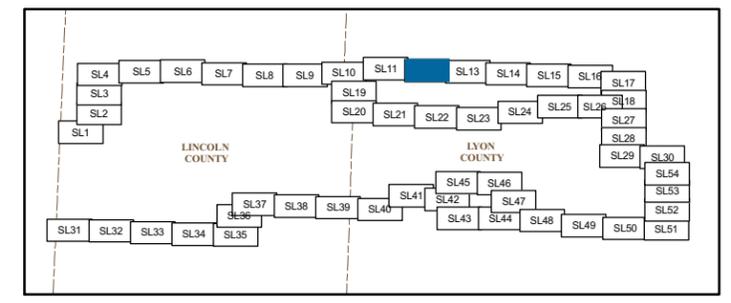


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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
|--|--|--|--|--|

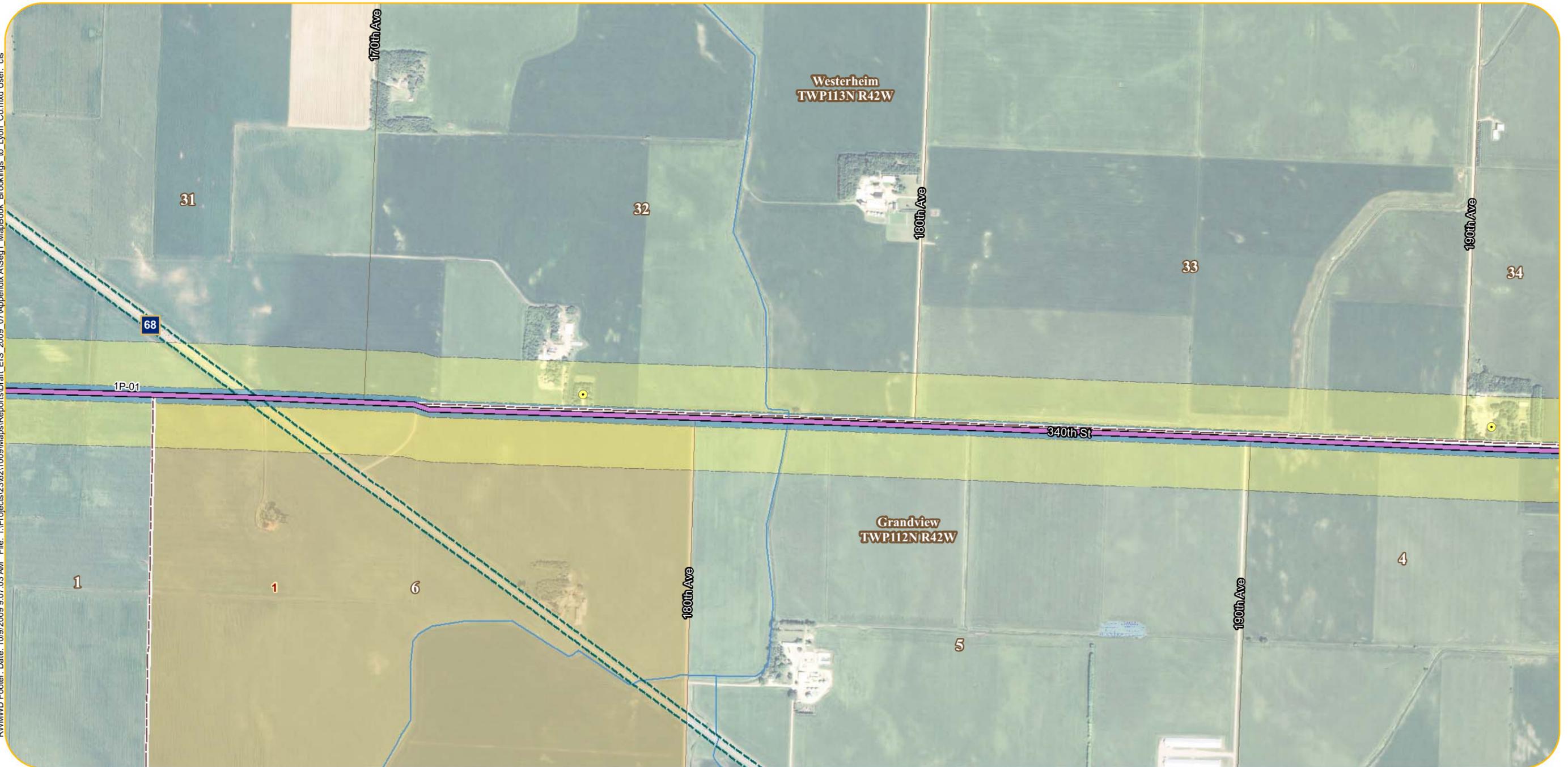
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL12
Detail Map
Segment 1,
Brookings County to Lyon County Substation



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- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

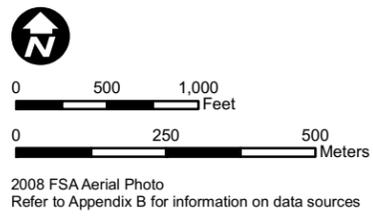
- Project Substations**
- Proposed Substation Areas
 - Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- MN DNR Natural Heritage**
- Airport
 - Organic Farms
 - Center Pivot Irrigation
 - Botanical
 - Ecological
 - Zoological
 - Botanical
 - Ecological
 - Zoological
 - MCBS Biodiversity Significance
 - Moderate Significance
 - High Significance
 - Outstanding Significance
 - State-Designated RR Prairie

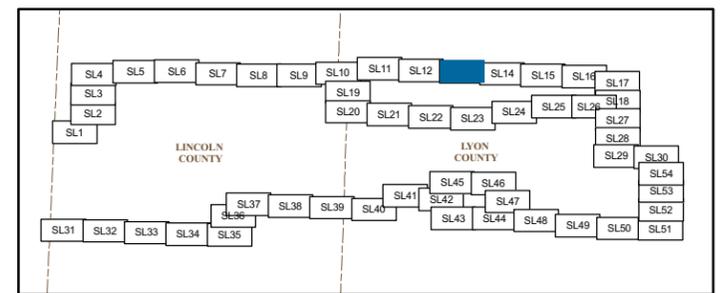
- Recreation Area**
- Regional Existing Trail
 - Regional Planned Trail
 - Regional Proposed Trail
 - State Existing Trail
 - Snowmobile Trail
 - Scenic Byway
 - Regional Park
 - Scientific & Natural Area
 - State Park
 - State Recreation Area
 - State Wayside
 - Wildlife Management Area
 - Wildlife Refuge
 - Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



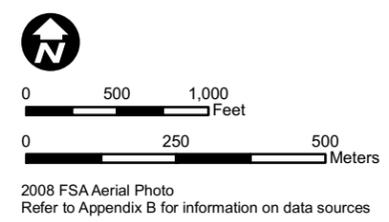
Appendix A - Sheet SL13
Detail Map
Segment 1,
Brookings County to Lyon County Substation



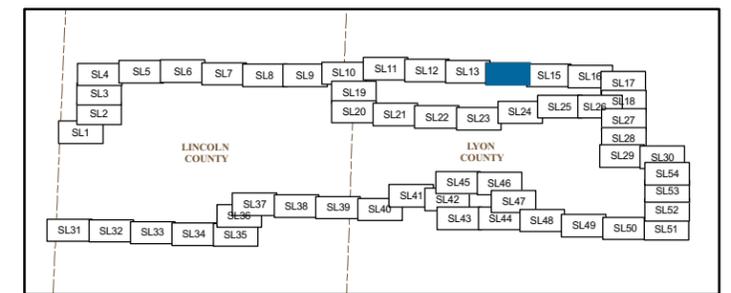
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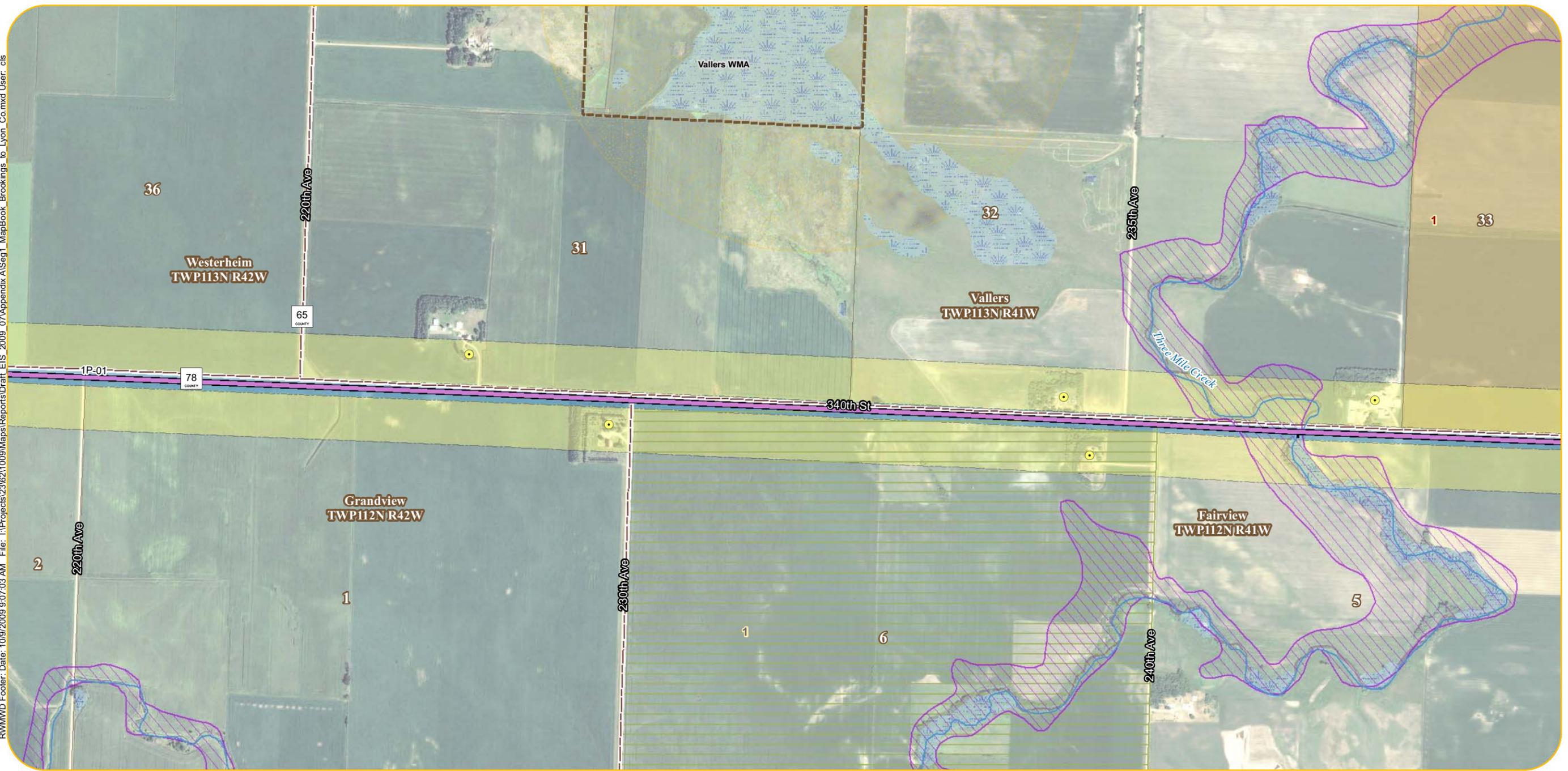
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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
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Appendix A - Sheet SL14
Detail Map
Segment 1,
Brookings County to Lyon County Substation



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- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

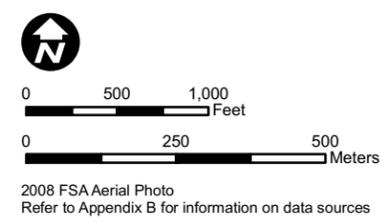
- Project Substations**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport**
- Airport
 - Organic Farms
 - Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
 - Ecological
 - Zoological
 - Botanical
 - Ecological
 - Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance
 - State-Designated RR Prairie

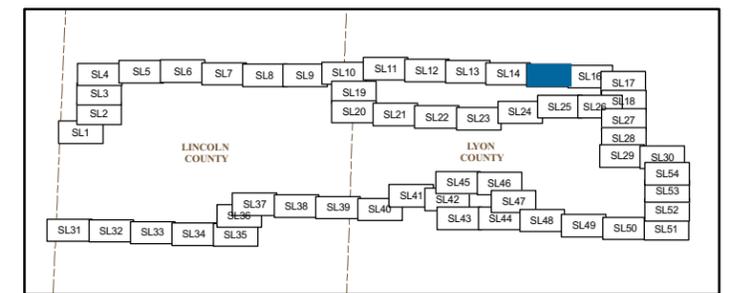
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NW1)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

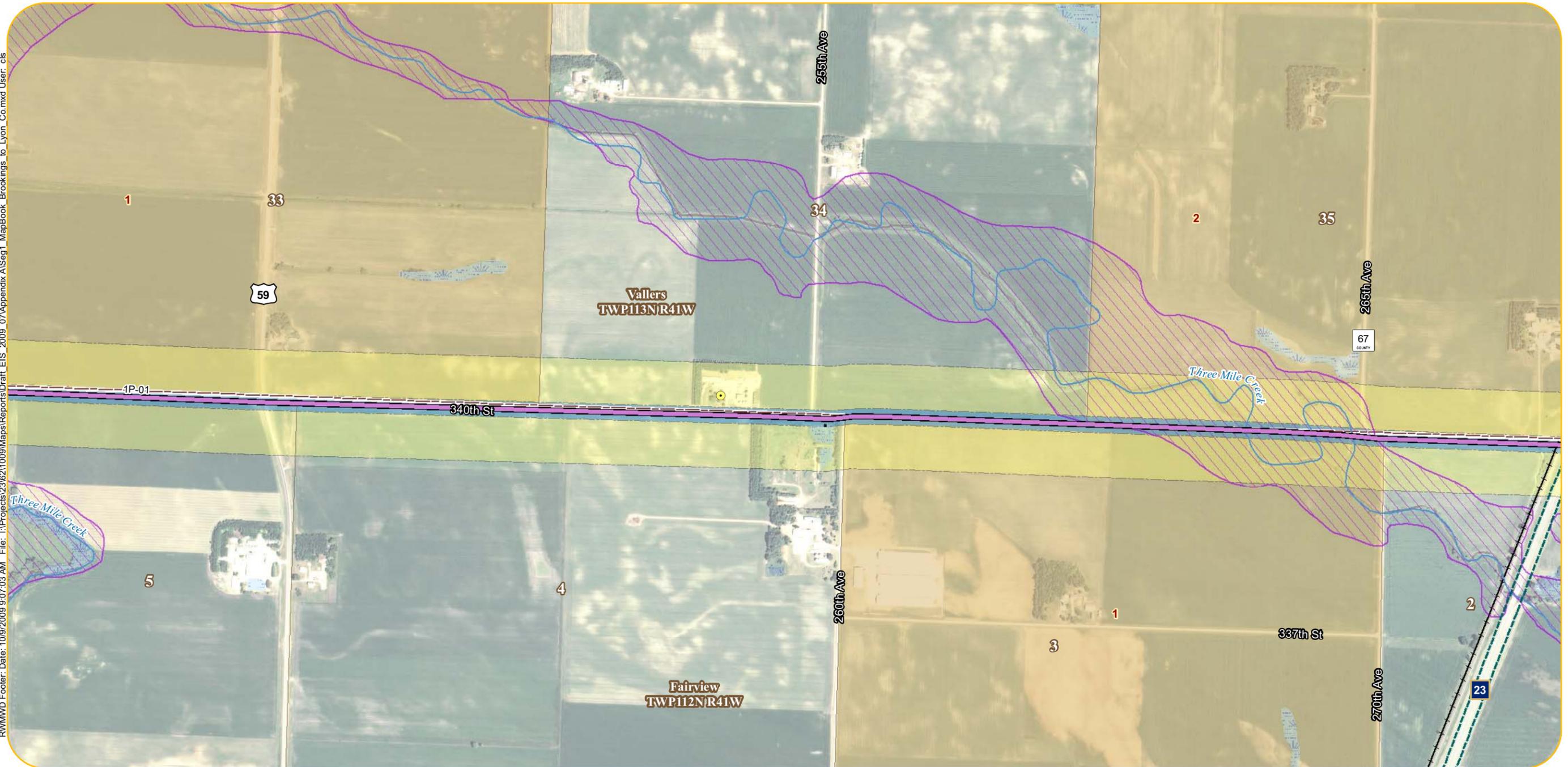
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



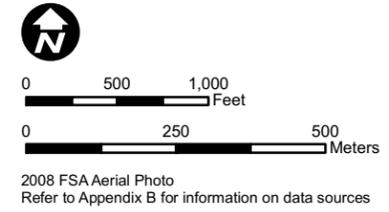
**Appendix A - Sheet SL15
Detail Map
Segment 1,
Brookings County to Lyon County Substation**



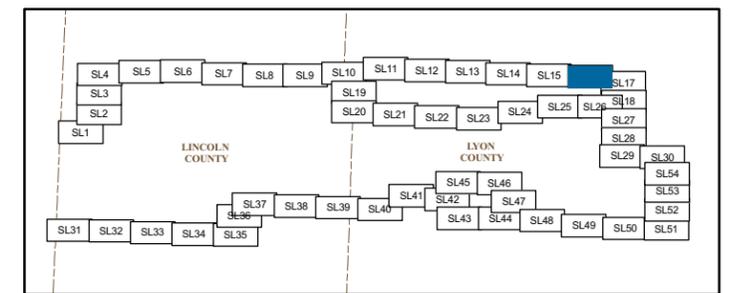
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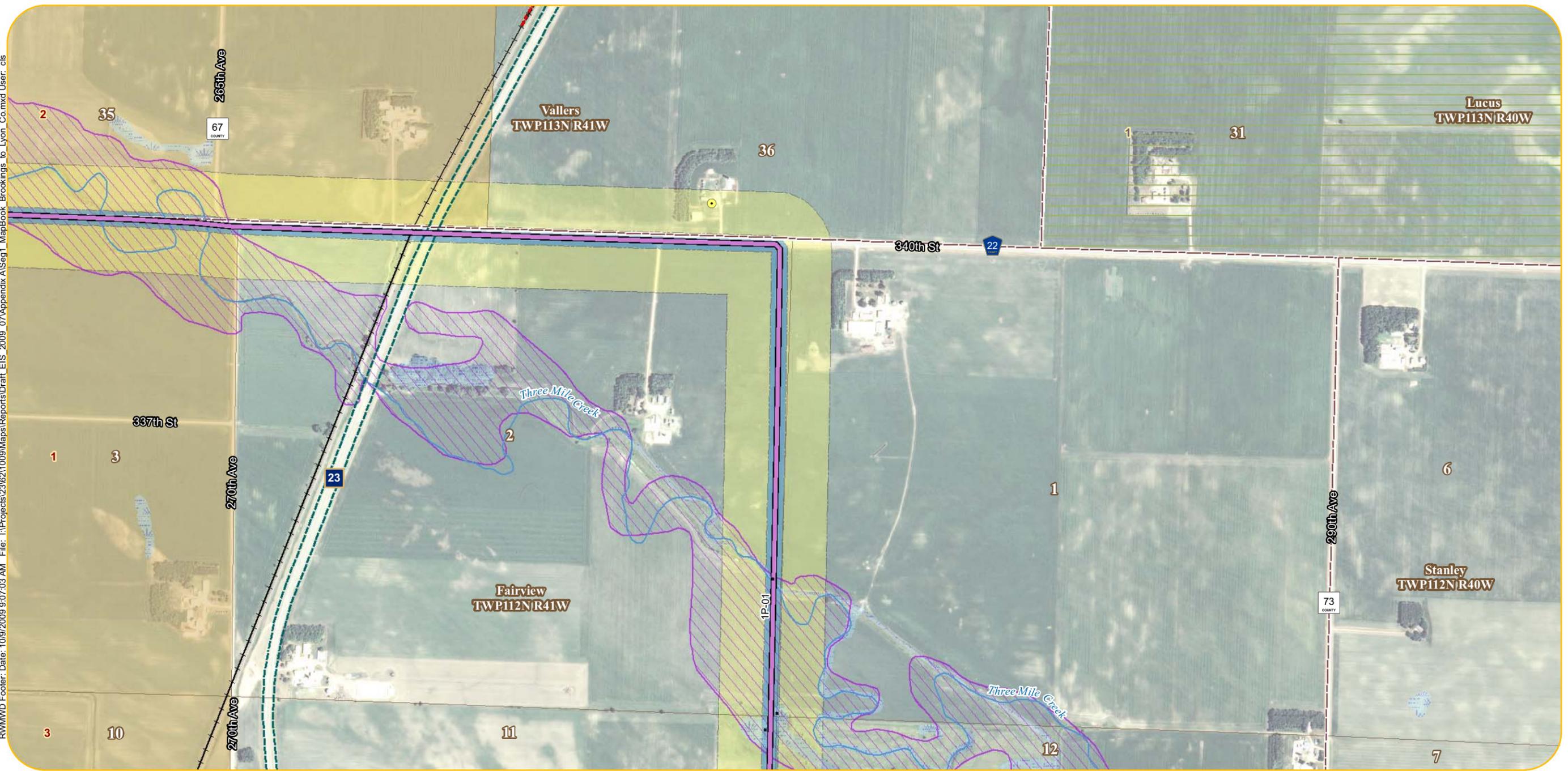
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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
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Appendix A - Sheet SL16
Detail Map
Segment 1,
Brookings County to Lyon County Substation

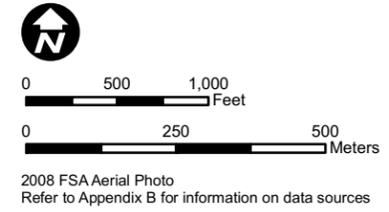


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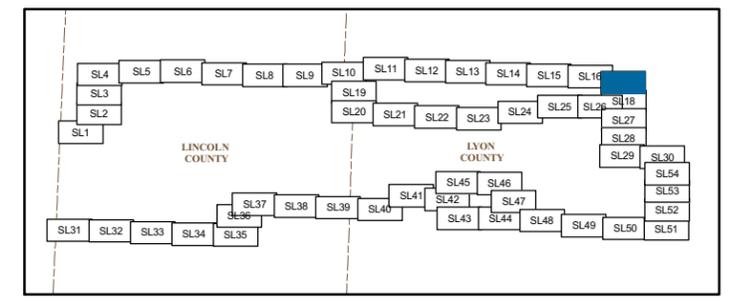


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|--|--|--|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
|--|--|--|--|--|

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 1 - 5
 - 6 - 10
 - 11 - 15
- Historical Sites**
- 1 - 5
 - 6 - 20
 - >20



Appendix A - Sheet SL17
Detail Map
Segment 1,
Brookings County to Lyon County Substation

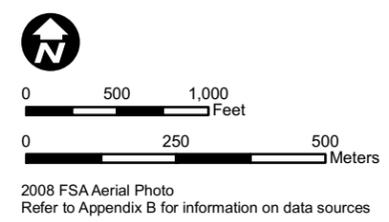


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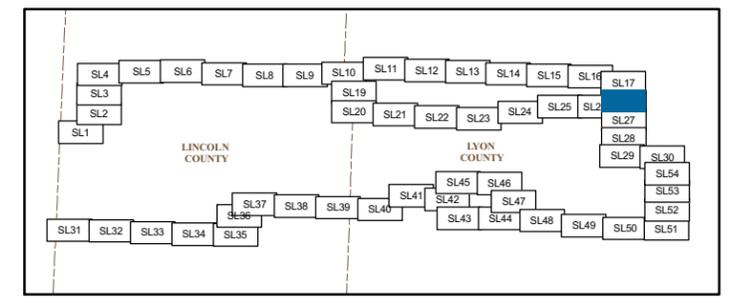


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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <p> Airport</p> <p> Organic Farms</p> <p> Center Pivot Irrigation</p> <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological Botanical Ecological Zoological <p>MCBS Biodiversity Significance</p> <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <p> Recreation Area</p> <ul style="list-style-type: none"> Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
|--|--|---|--|--|

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL18
Detail Map
Segment 1,
Brookings County to Lyon County Substation





- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

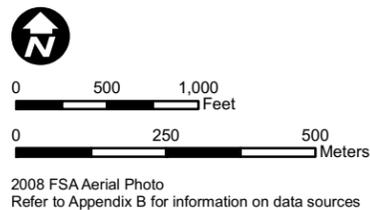
- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport
- Organic Farms
- Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological
- Botanical
- Ecological
- Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
- High Significance
- Outstanding Significance
- State-Designated RR Prairie

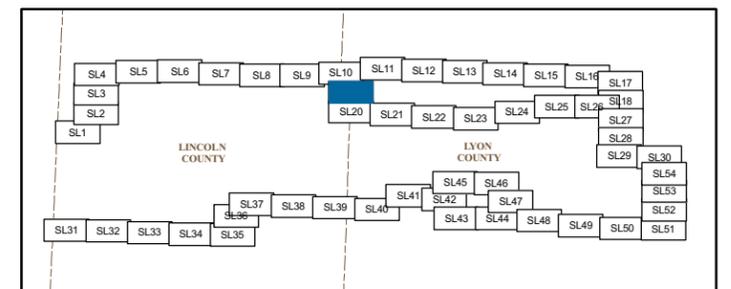
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

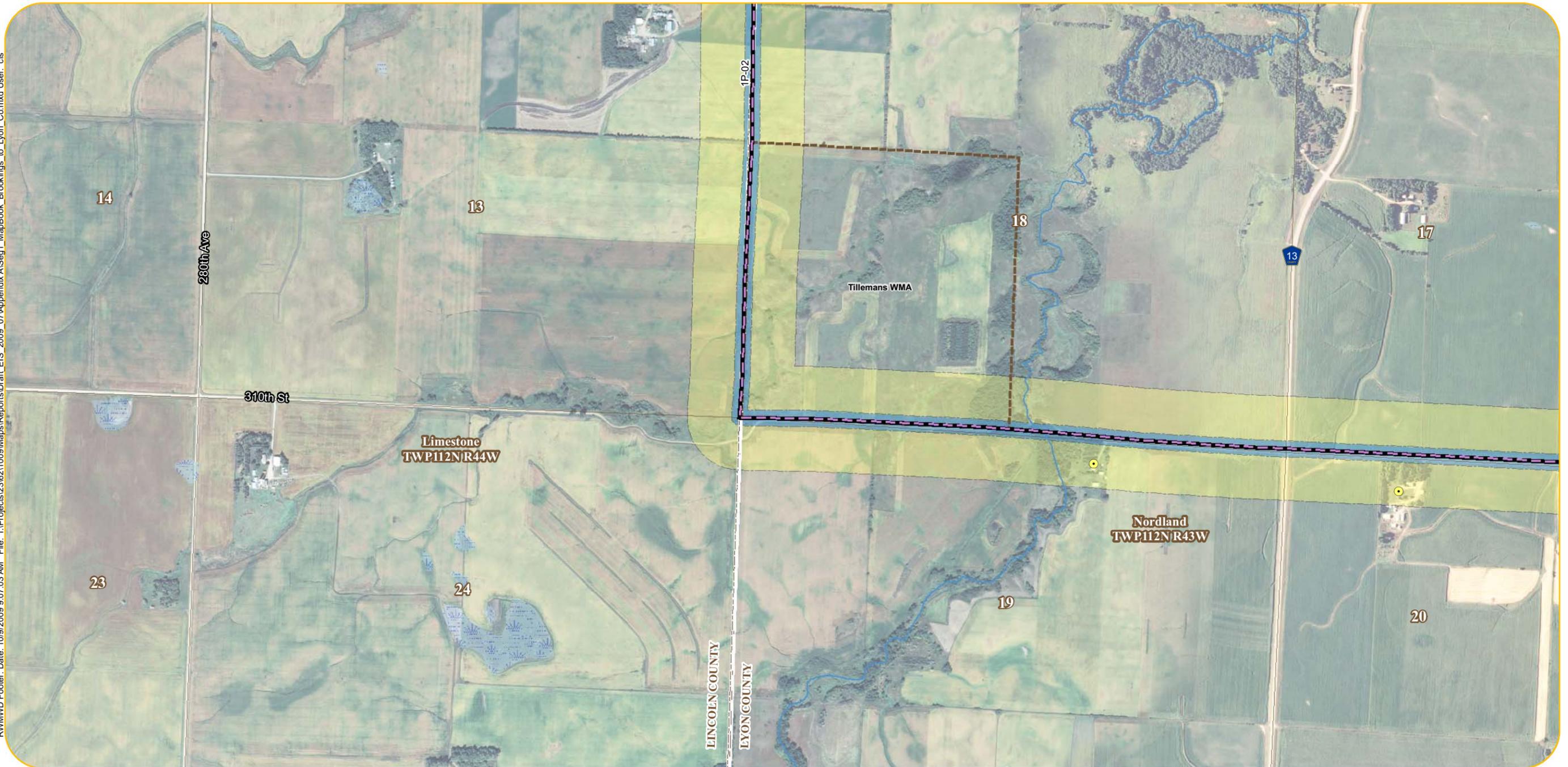
- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NW1)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL19
Detail Map
Segment 1,
Brookings County to Lyon County Substation





- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

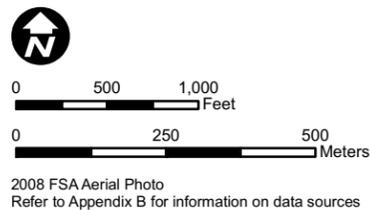
- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport
- Organic Farms
- Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological
- Botanical
- Ecological
- Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
- High Significance
- Outstanding Significance
- State-Designated RR Prairie

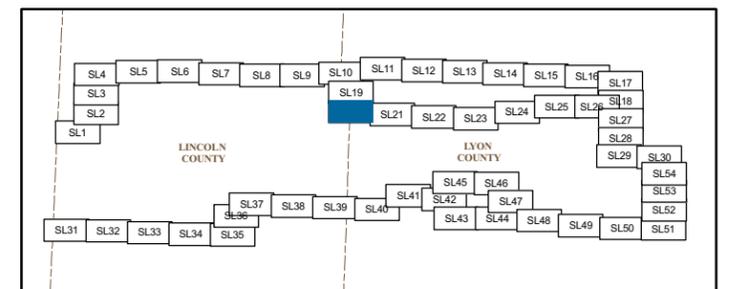
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

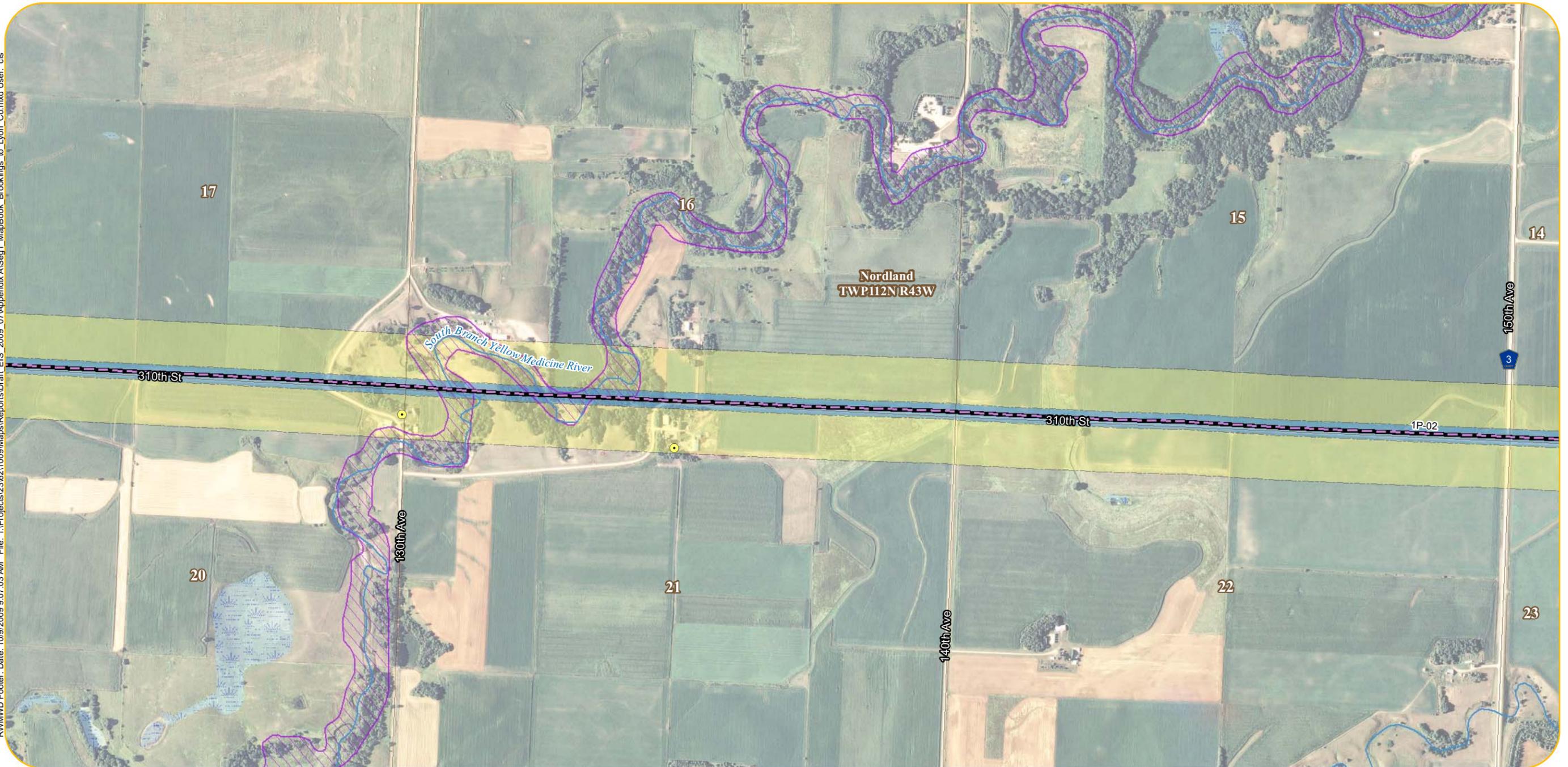
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL20
Detail Map
Segment 1,
Brookings County to Lyon County Substation



R:\MWD Footer: Date: 10/9/2009 9:07:03 AM File: I:\Projects\23162\1009\Maps\Reports\Draft EIS_2009_07\Appendix A\Seg1_MapBook_Brookings to Lyon_Co.mxd User: cjs



- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

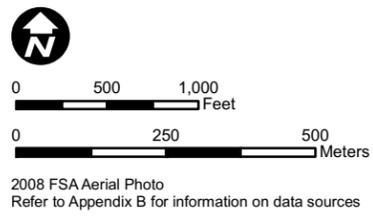
- Project Substations**
- Proposed Substation Areas
 - Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- MN DNR Natural Heritage**
- Botanical
 - Ecological
 - Zoological
 - Botanical
 - Ecological
 - Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance
 - State-Designated RR Prairie

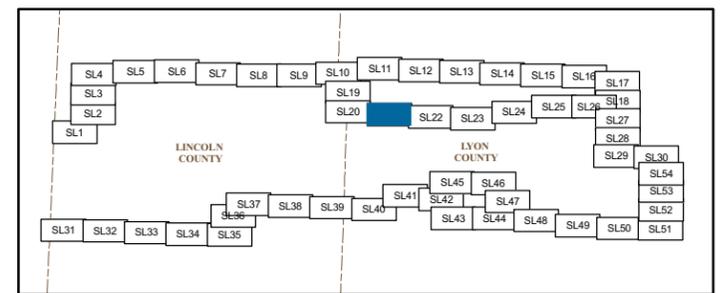
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NW1)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

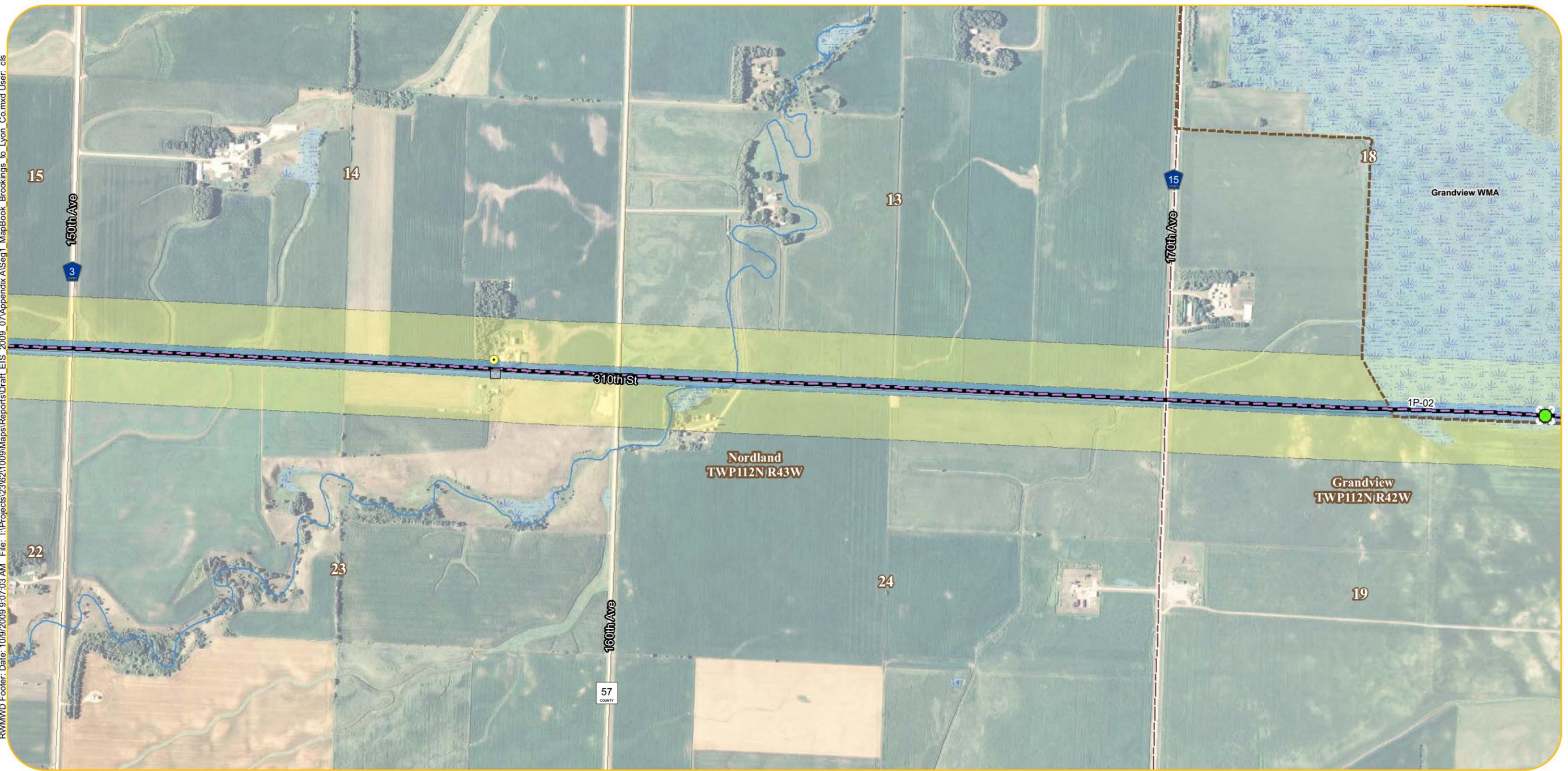
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



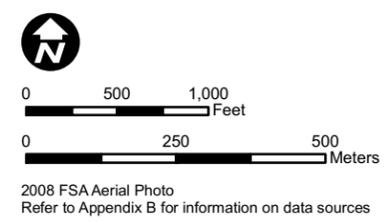
Appendix A - Sheet SL21
Detail Map
Segment 1,
Brookings County to Lyon County Substation



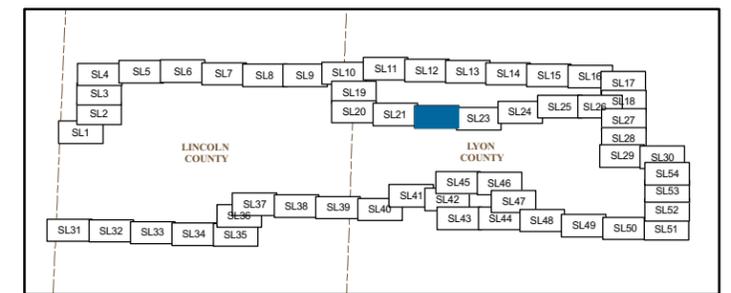
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|--|--|--|--|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
|--|--|--|--|--|--|



Appendix A - Sheet SL22
Detail Map
Segment 1,
Brookings County to Lyon County Substation





- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport
- Organic Farms
- Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological
- Botanical
- Ecological
- Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
- High Significance
- Outstanding Significance
- State-Designated RR Prairie

- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

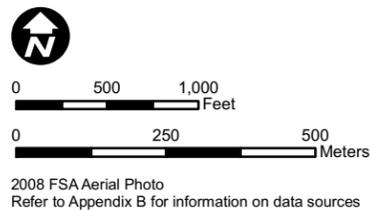
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4

- Archaeological Sites**

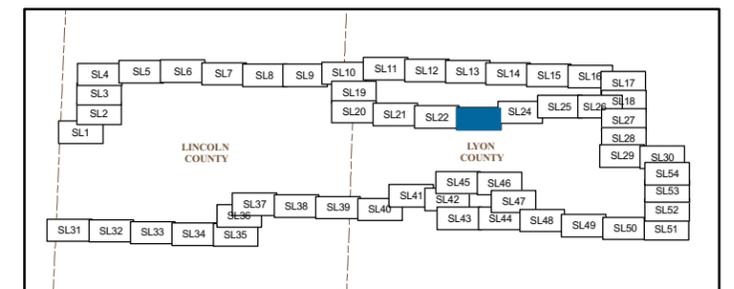
- 2 1 - 5
- 7 6 - 10
- 13 11 - 15
- 2 1 - 5
- 10 6 - 20
- 53 >20

- Historical Sites**

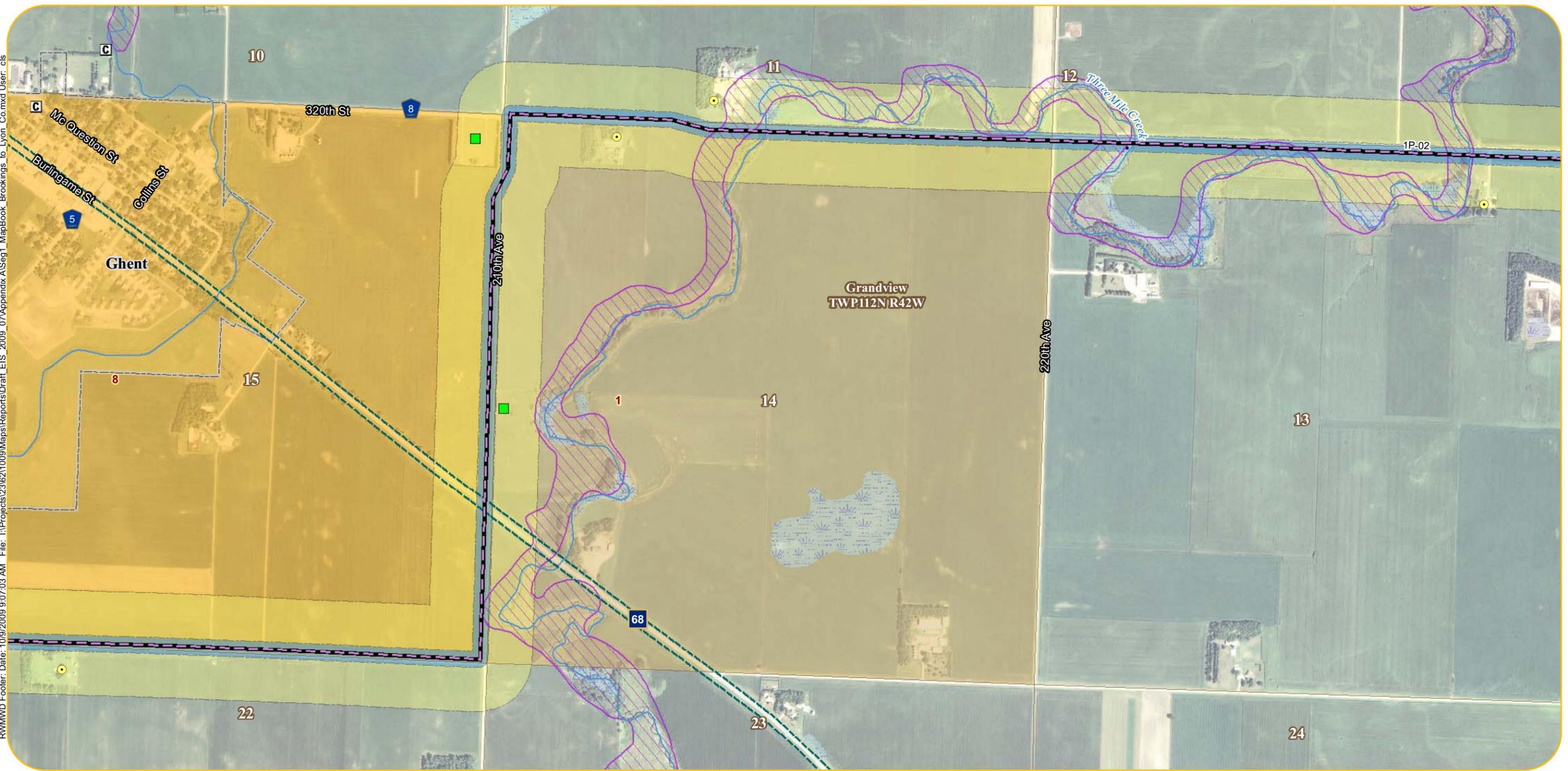
- 2 1 - 5
- 10 6 - 20
- 53 >20



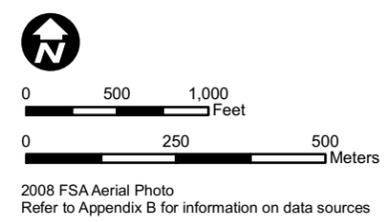
Appendix A - Sheet SL23
Detail Map
Segment 1,
Brookings County to Lyon County Substation



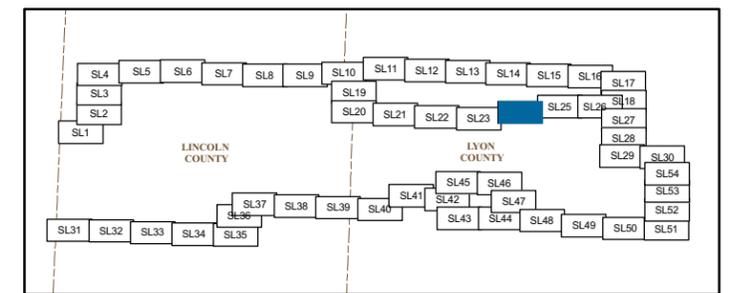
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|--|--|---|--|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <p> Airport</p> <p> Organic Farms</p> <p> Center Pivot Irrigation</p> <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological Botanical Ecological Zoological <p>MCBS Biodiversity Significance</p> <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <p> Recreation Area</p> <ul style="list-style-type: none"> Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
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Appendix A - Sheet SL24
Detail Map
Segment 1,
Brookings County to Lyon County Substation



RMMWD Footer: Date: 10/9/2009 9:07:03 AM File: I:\Projects\23162\1009\Maps\Reports\Draft EIS 2009_07\Appendix A\Seg1_MapBook_Brookings to Lyon Co.mxd User: cjs



- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

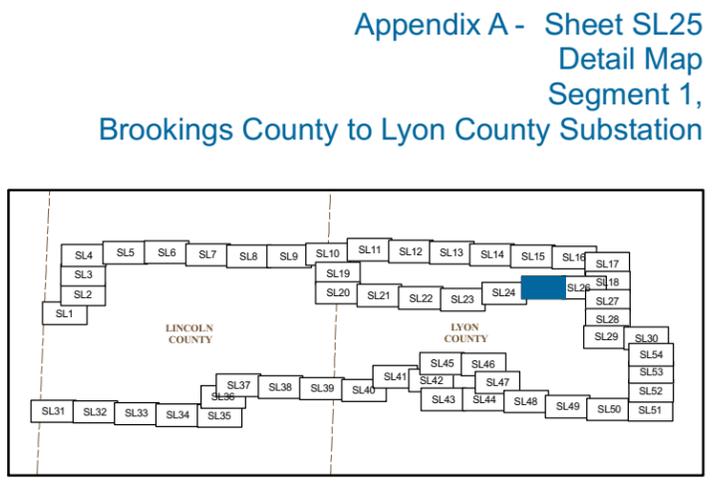
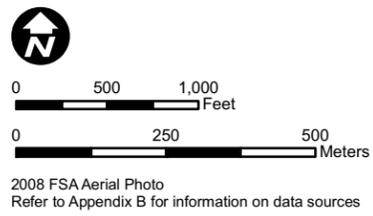
- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport
- Organic Farms
- Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological
- Botanical
- Ecological
- Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
- High Significance
- Outstanding Significance
- State-Designated RR Prairie

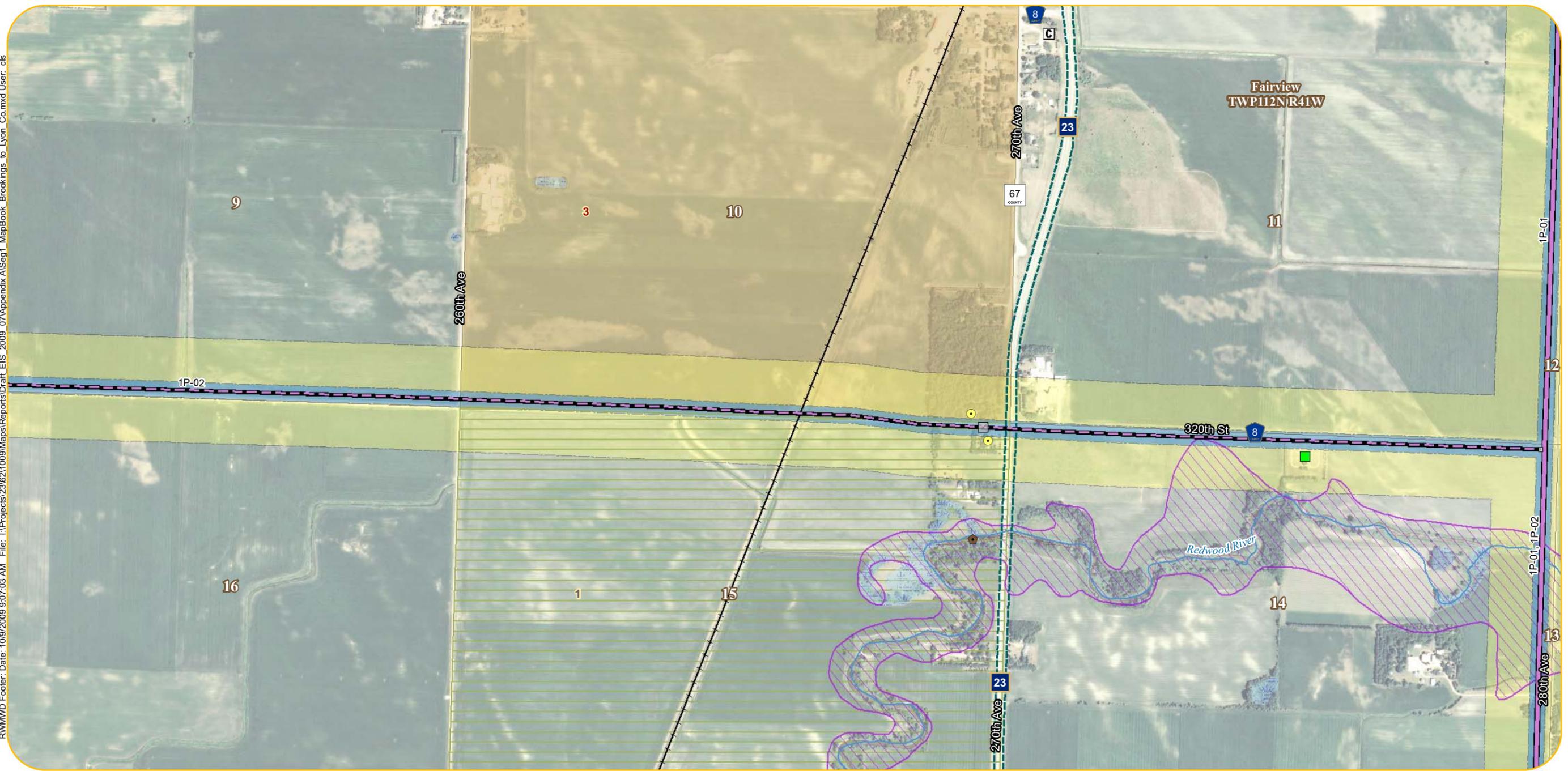
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

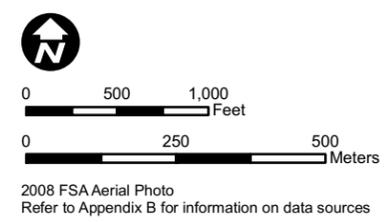
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



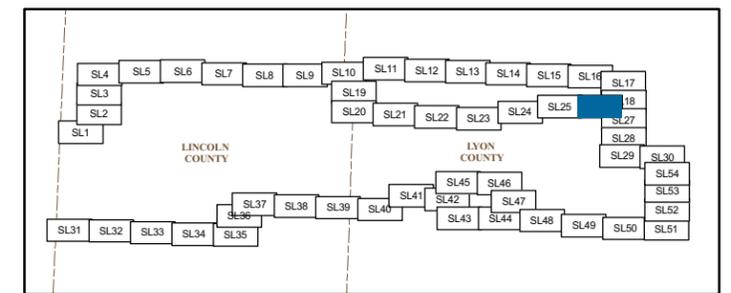
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|--|--|--|--|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
|--|--|--|--|--|--|



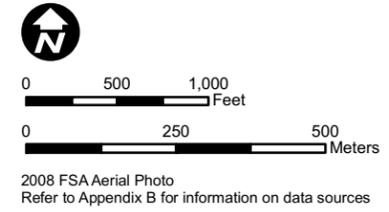
Appendix A - Sheet SL26
Detail Map
Segment 1,
Brookings County to Lyon County Substation



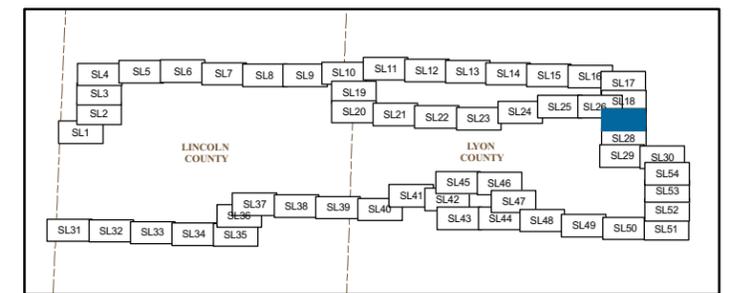
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|--|--|--|--|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
|--|--|--|--|--|--|



Appendix A - Sheet SL27
Detail Map
Segment 1,
Brookings County to Lyon County Substation





- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

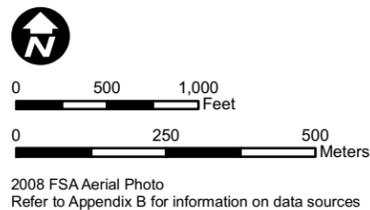
- Project Substations**
- Proposed Substation Areas
 - Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- MN DNR Natural Heritage**
- Botanical
 - Ecological
 - Zoological
 - Botanical
 - Ecological
 - Zoological
 - MCBS Biodiversity Significance
 - Moderate Significance
 - High Significance
 - Outstanding Significance
 - State-Designated RR Prairie

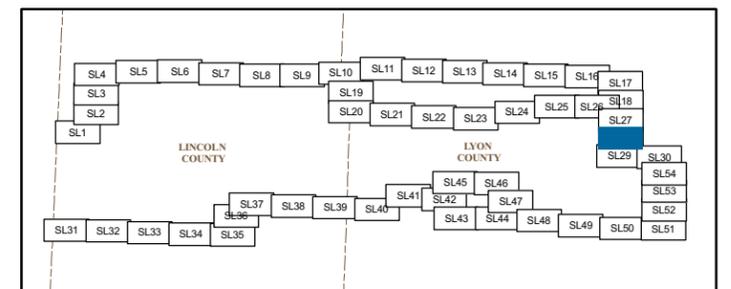
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

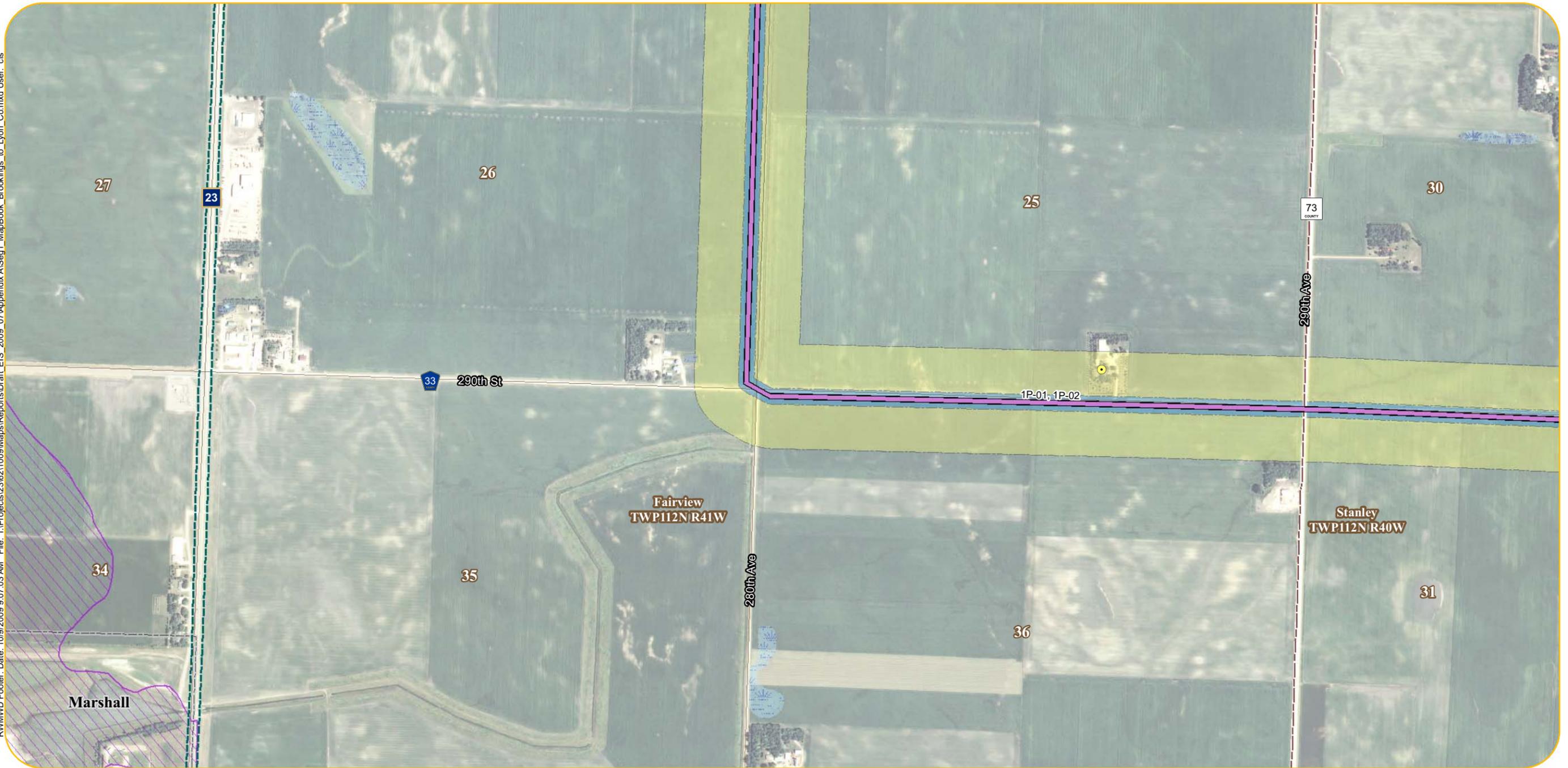
- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20

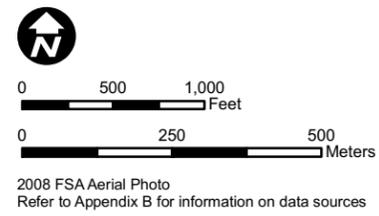


Appendix A - Sheet SL28
Detail Map
Segment 1,
Brookings County to Lyon County Substation

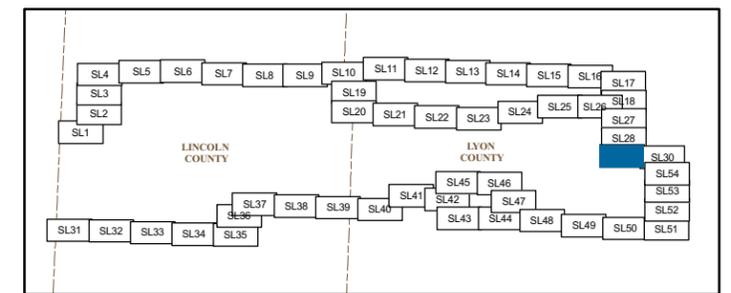


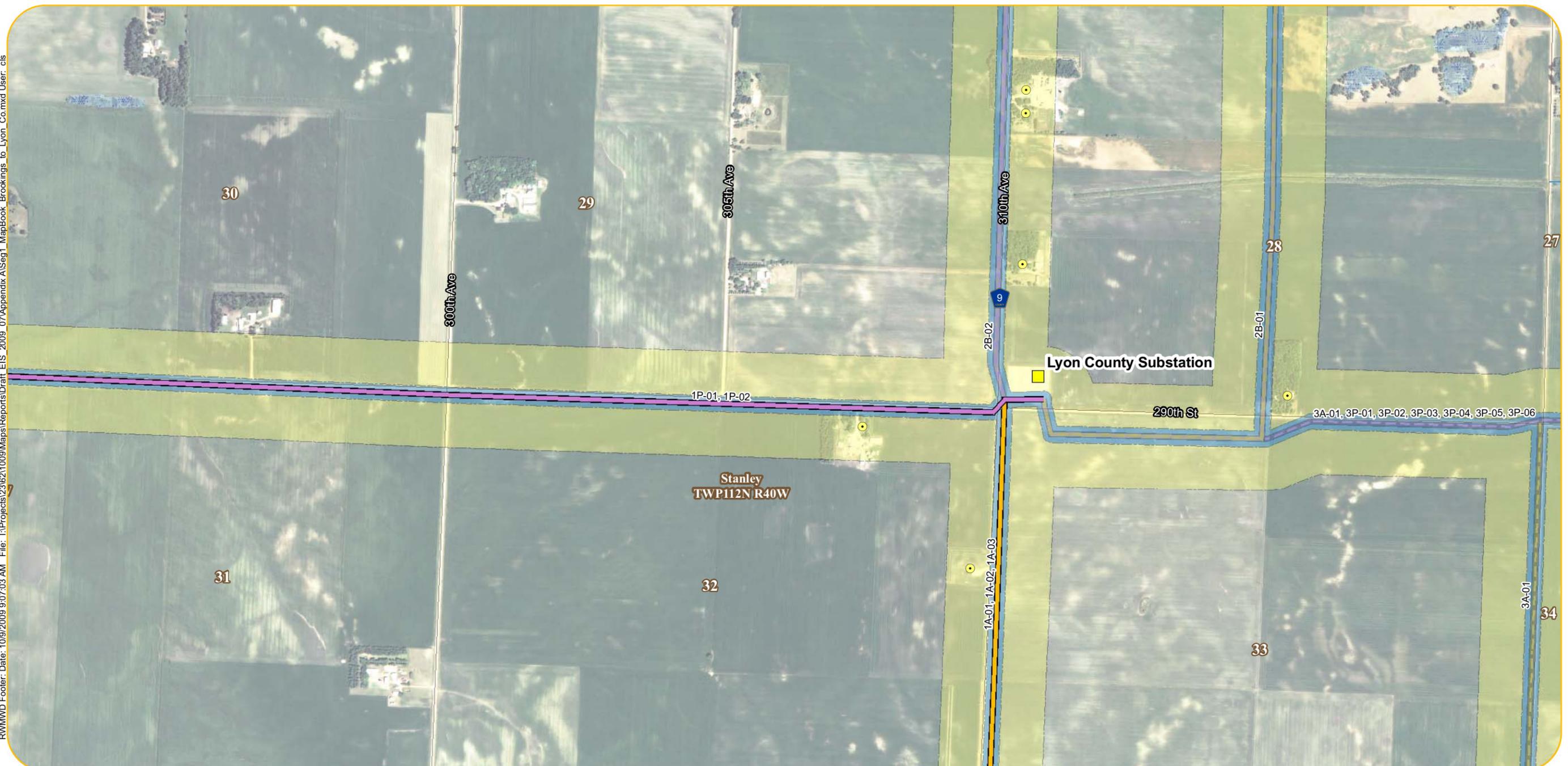


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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <ul style="list-style-type: none"> Project Substations <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
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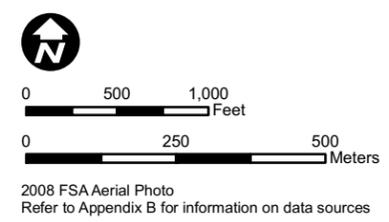


Appendix A - Sheet SL29
Detail Map
Segment 1,
Brookings County to Lyon County Substation

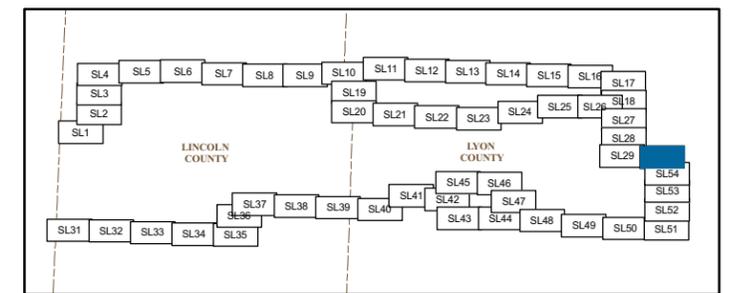


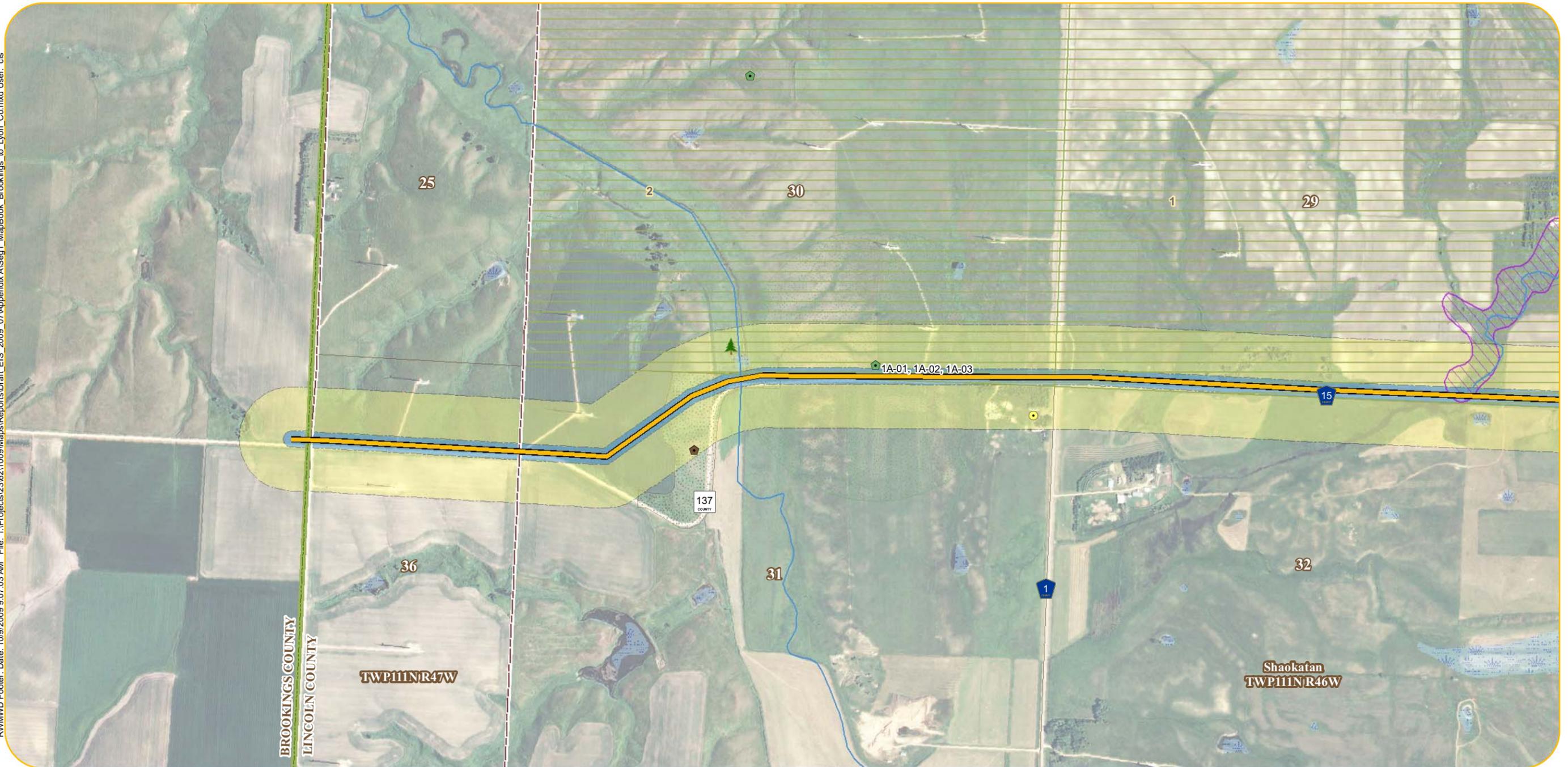


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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <ul style="list-style-type: none"> Project Substations <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
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Appendix A - Sheet SL30
Detail Map
Segment 1,
Brookings County to Lyon County Substation





- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

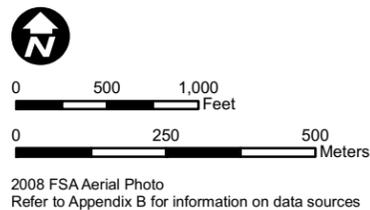
- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport**
- Organic Farms**
- Center Pivot Irrigation**
- MN DNR Natural Heritage**
- Botanical
 - Ecological
 - Zoological
 - Botanical
 - Ecological
 - Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance

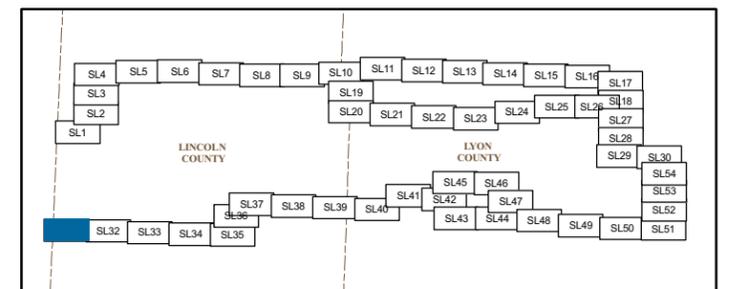
- Recreation Area**
- Regional Existing Trail**
- Regional Planned Trail**
- Regional Proposed Trail**
- State Existing Trail**
- Snowmobile Trail**
- Scenic Byway**
- Regional Park**
- Scientific & Natural Area**
- State Park**
- State Recreation Area**
- State Wayside**
- Wildlife Management Area**
- Wildlife Refuge**
- Tribal Land**

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

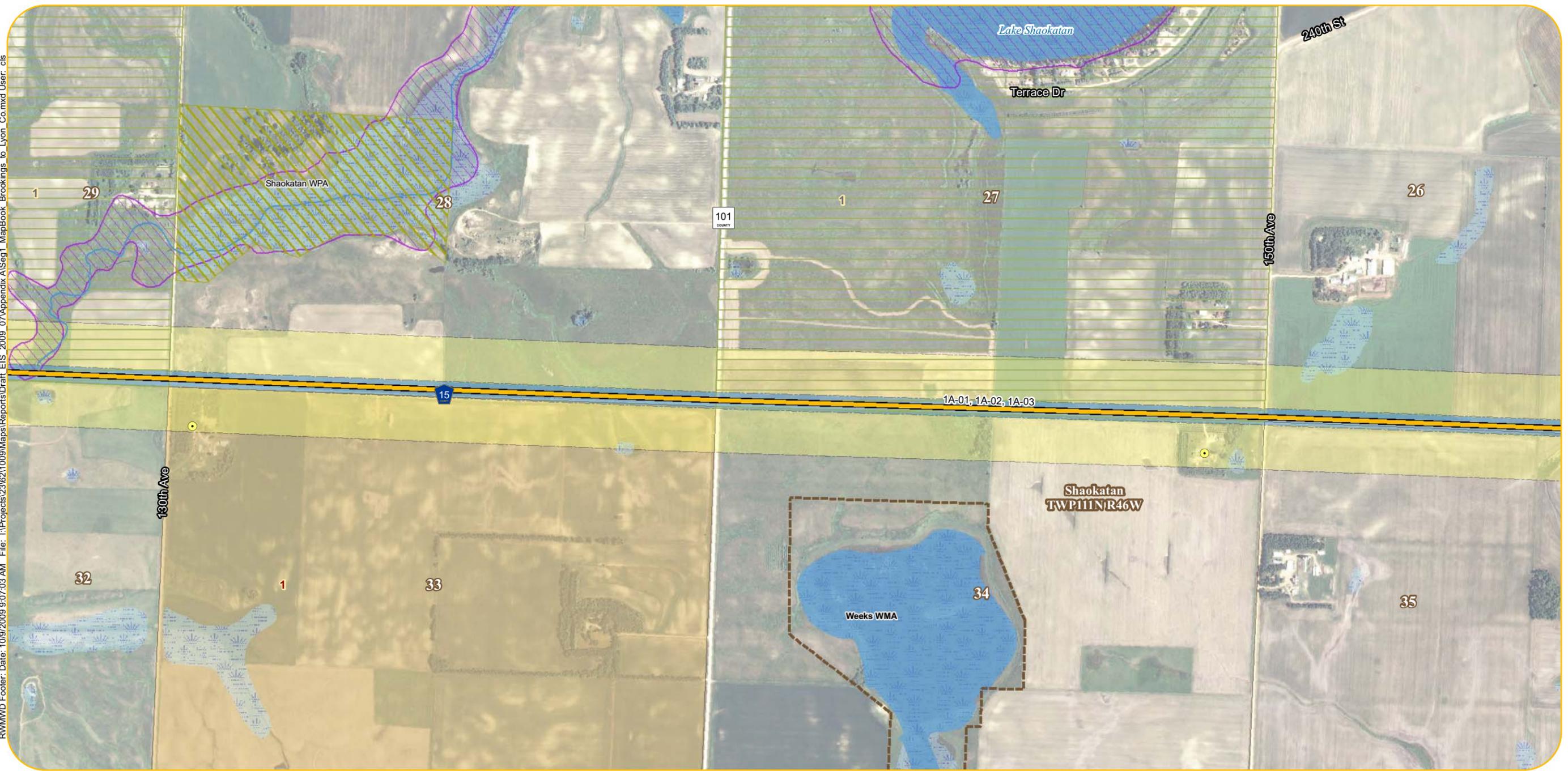
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



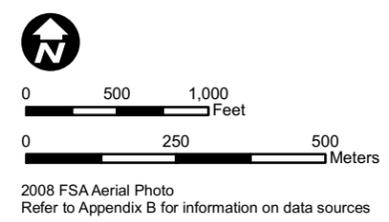
Appendix A - Sheet SL31
Detail Map
Segment 1,
Brookings County to Lyon County Substation



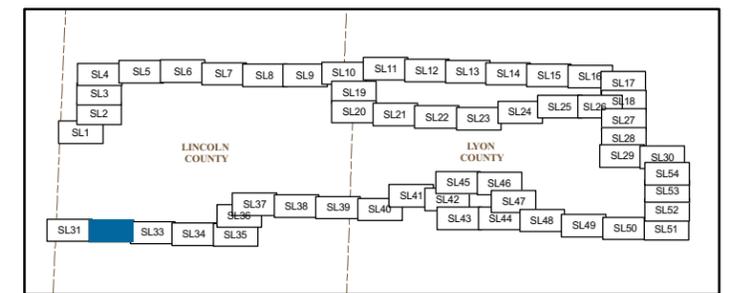
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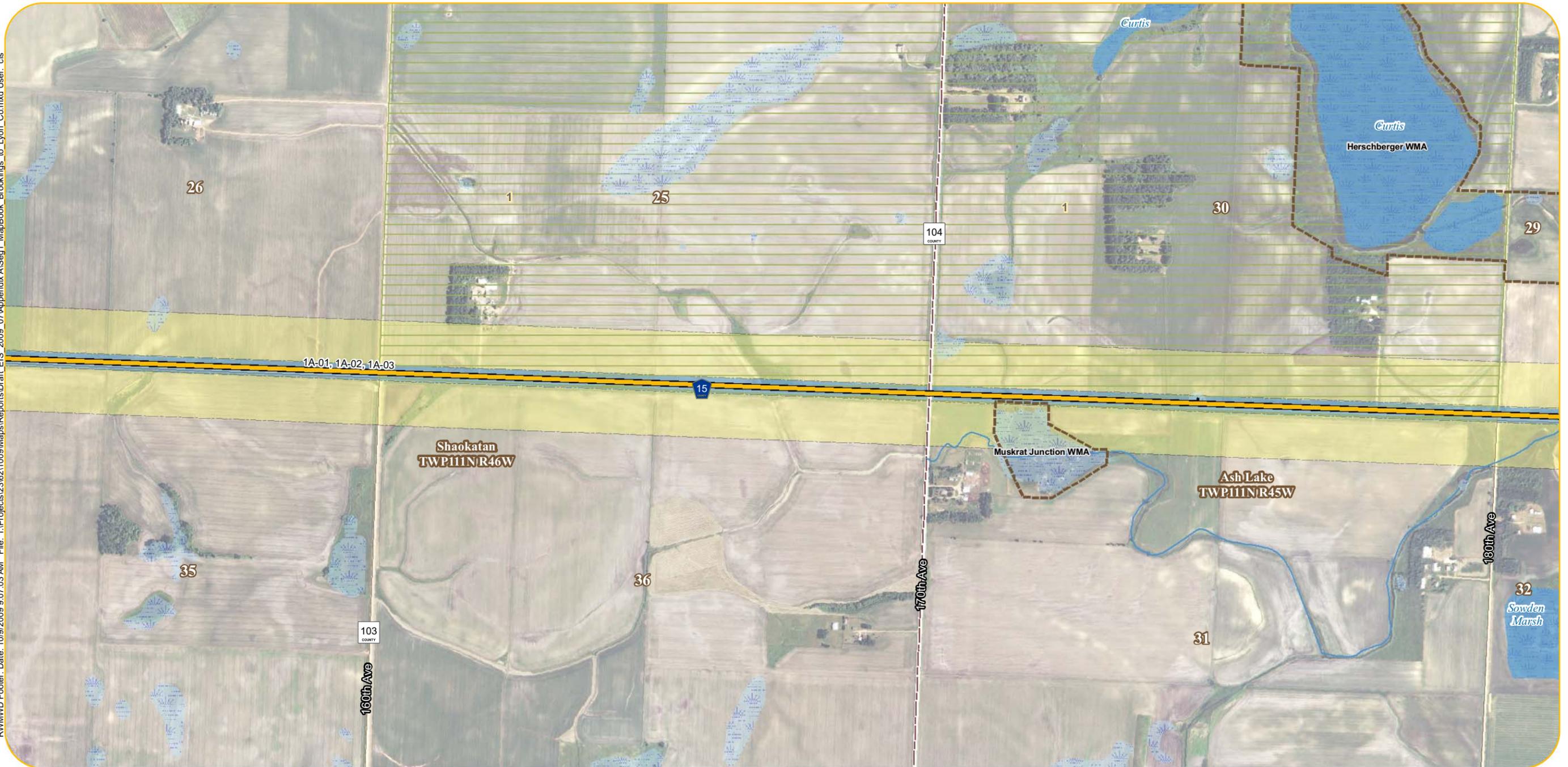


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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
|--|--|--|--|--|--|



Appendix A - Sheet SL32
Detail Map
Segment 1,
Brookings County to Lyon County Substation





- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

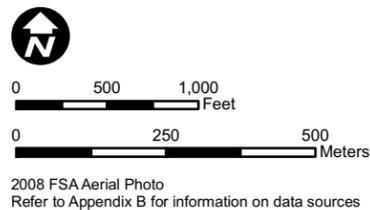
- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport
- Organic Farms
- Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological
- Botanical
- Ecological
- Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
- High Significance
- Outstanding Significance
- State-Designated RR Prairie

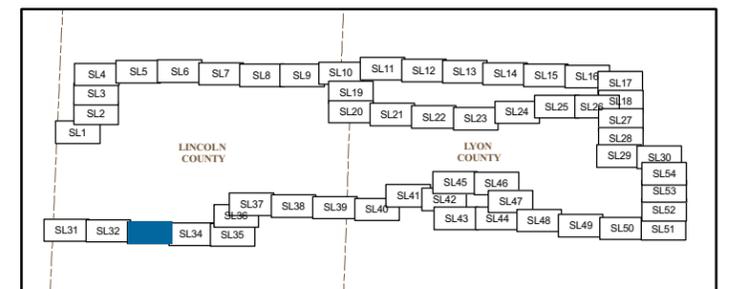
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL33
Detail Map
Segment 1,
Brookings County to Lyon County Substation



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- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

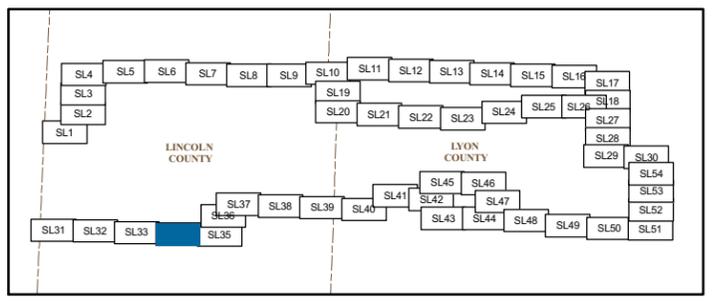
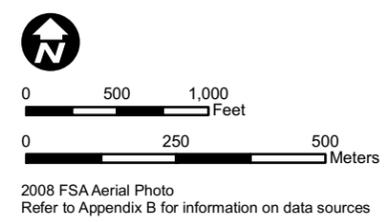
- Airport**
- Airport
 - Organic Farms
 - Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
 - Ecological
 - Zoological
 - Botanical
 - Ecological
 - Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance

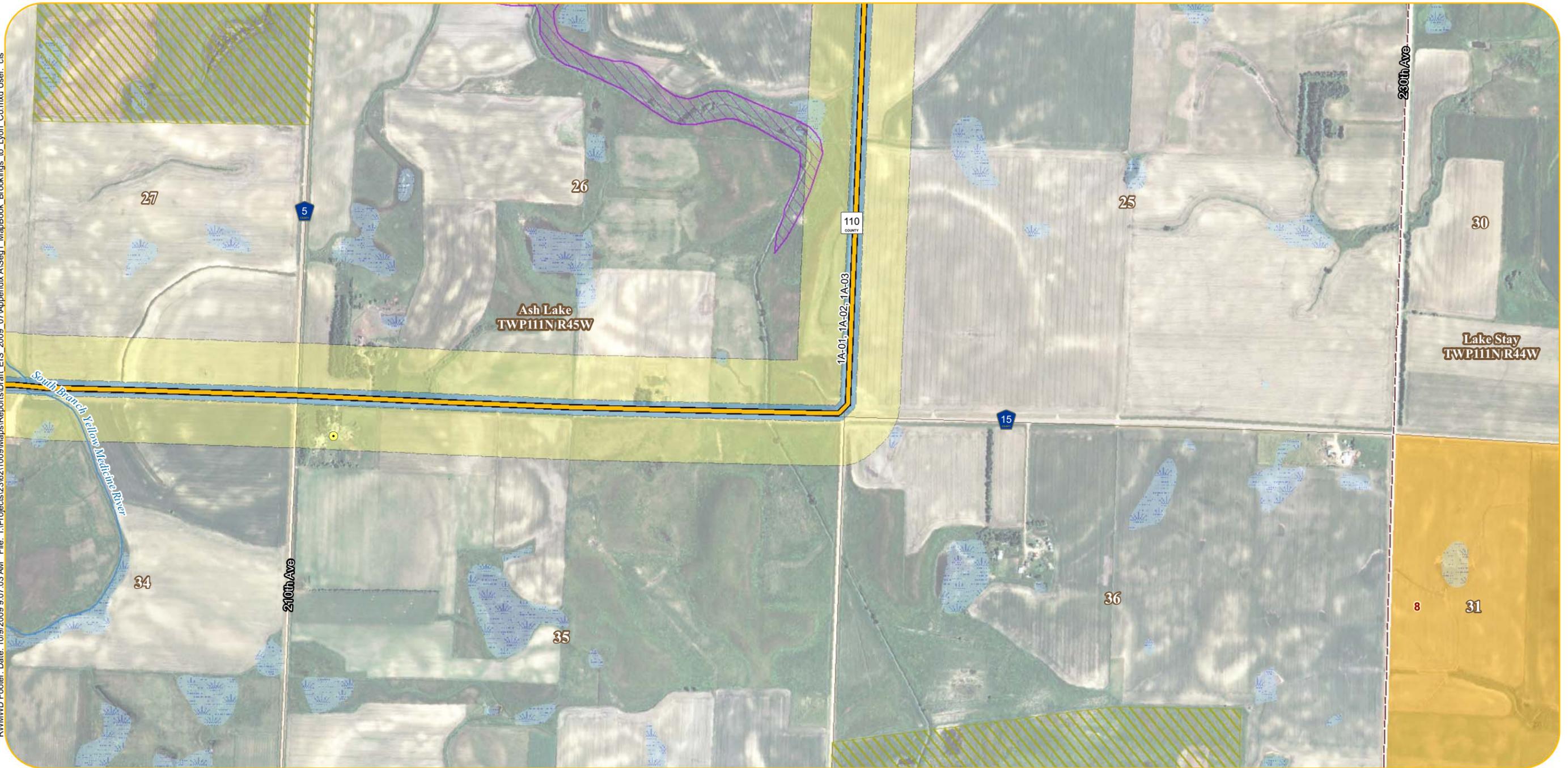
- Recreation Area**
- Recreation Area
 - Regional Existing Trail
 - Regional Planned Trail
 - Regional Proposed Trail
 - State Existing Trail
 - Snowmobile Trail
 - Scenic Byway
 - Regional Park
 - Scientific & Natural Area
 - State Park
 - State Recreation Area
 - State Wayside
 - Wildlife Management Area
 - Wildlife Refuge
 - Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20

Appendix A - Sheet SL34
Detail Map
Segment 1,
Brookings County to Lyon County Substation





- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

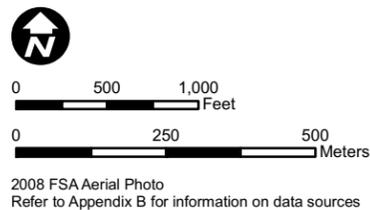
- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport
- Organic Farms
- Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological
- Botanical
- Ecological
- Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
- High Significance
- Outstanding Significance
- State-Designated RR Prairie

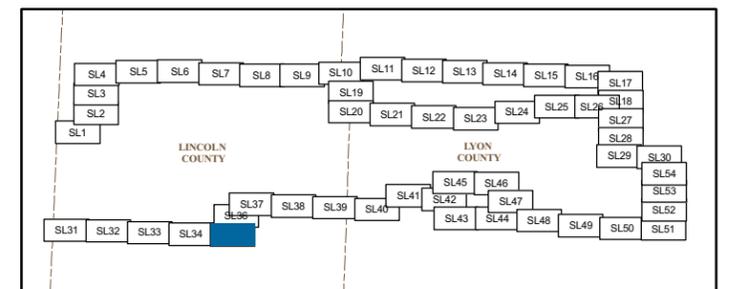
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

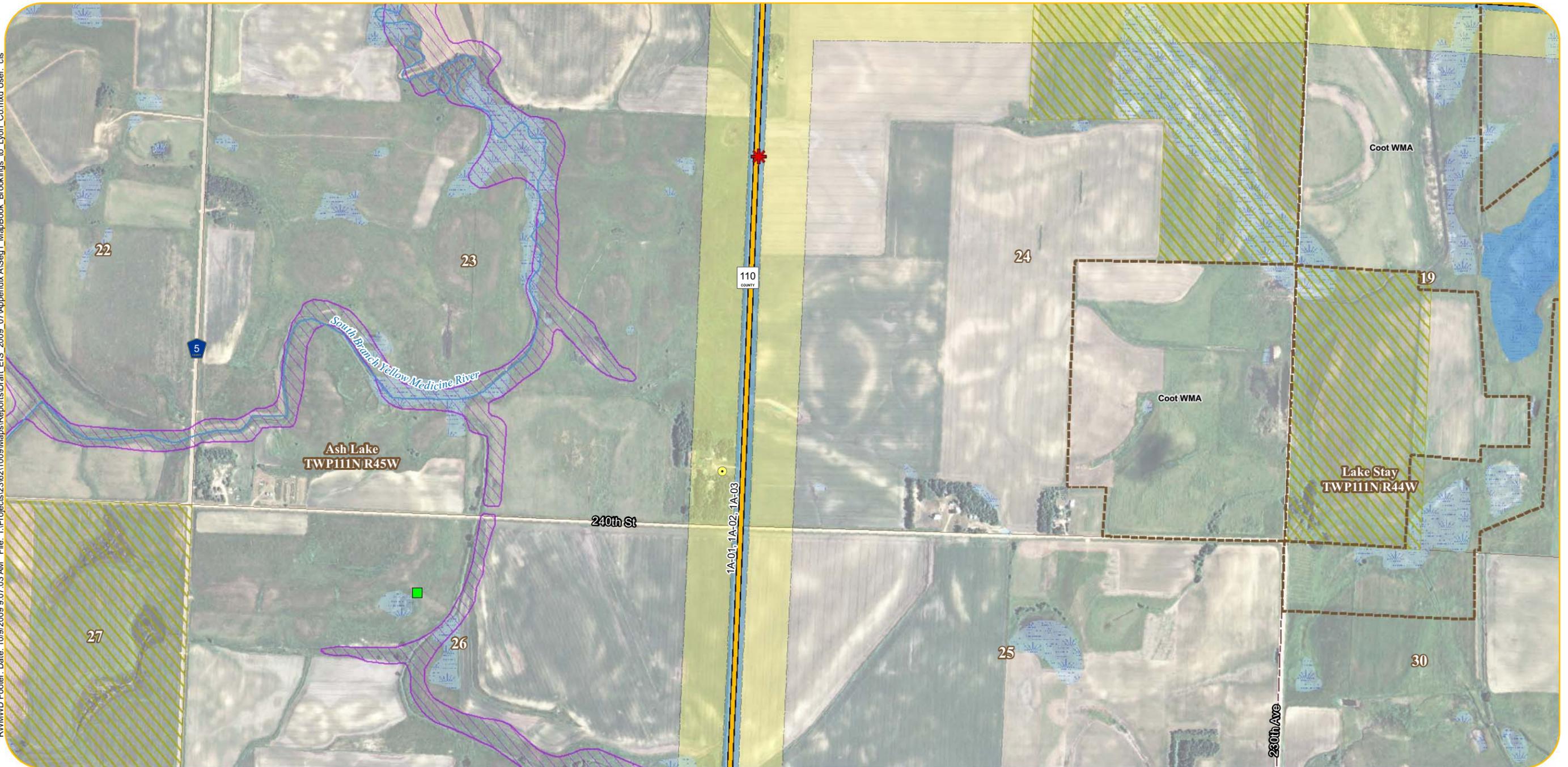
- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20

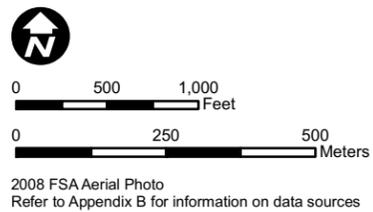


Appendix A - Sheet SL35
Detail Map
Segment 1,
Brookings County to Lyon County Substation

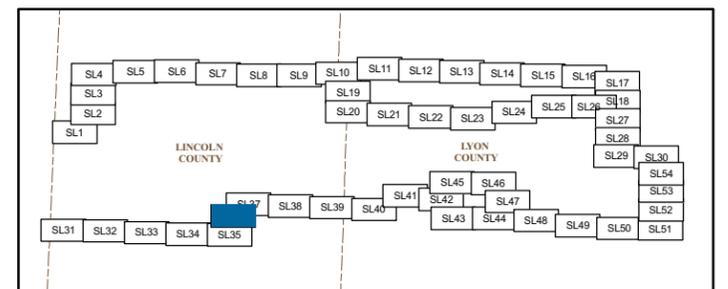


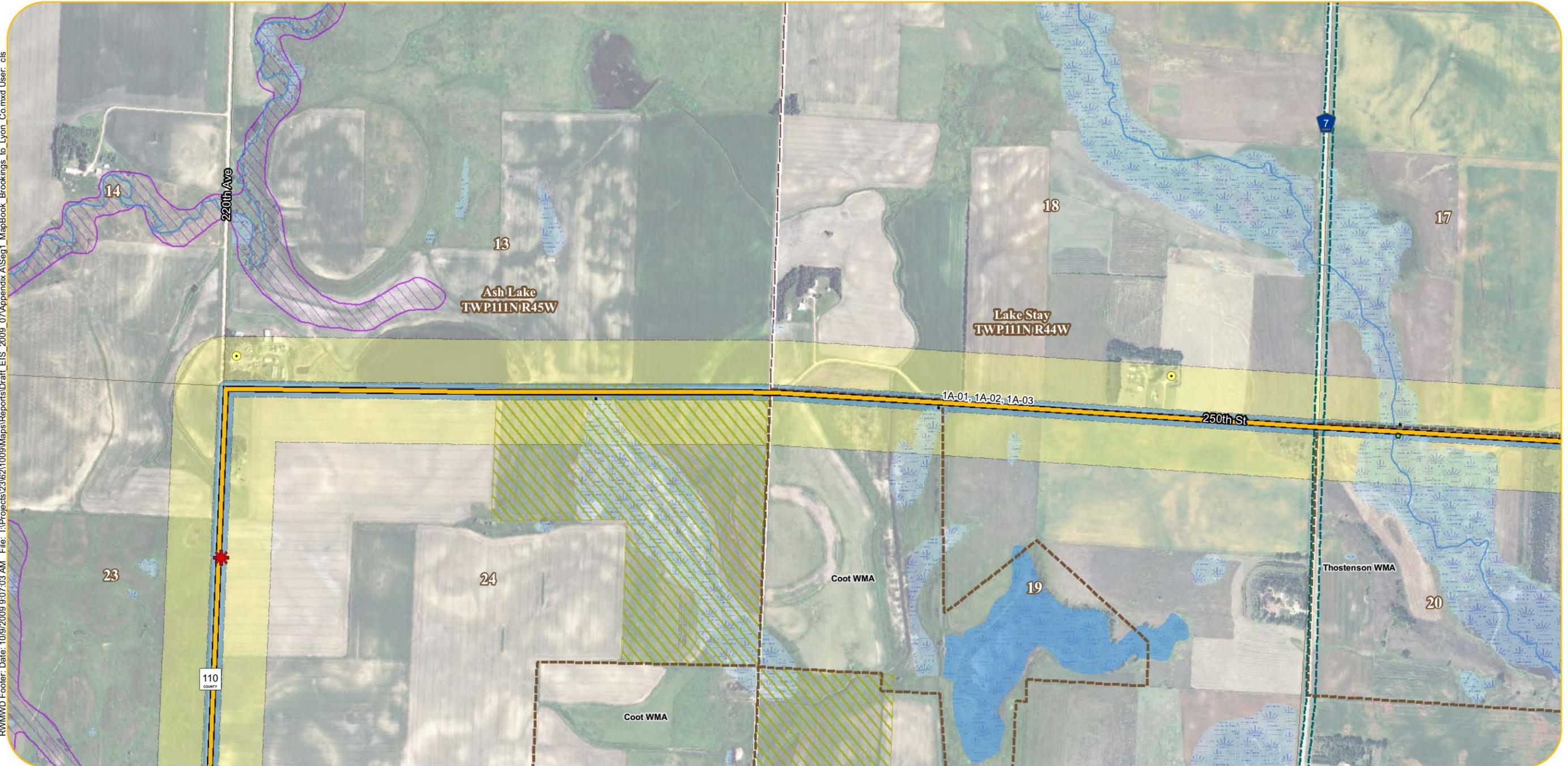


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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
|--|--|--|--|--|--|

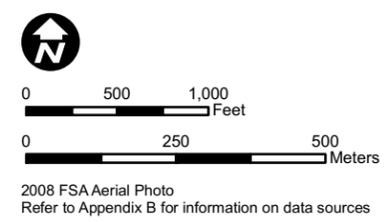


Appendix A - Sheet SL36
Detail Map
Segment 1,
Brookings County to Lyon County Substation

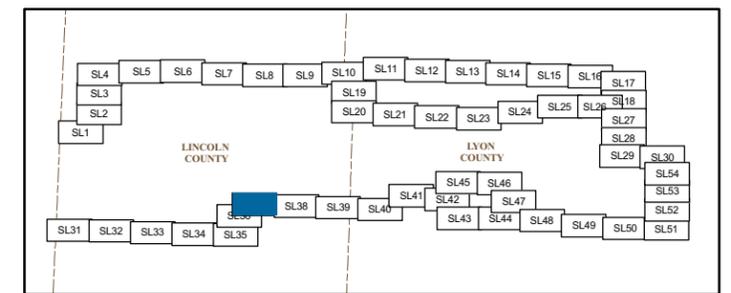




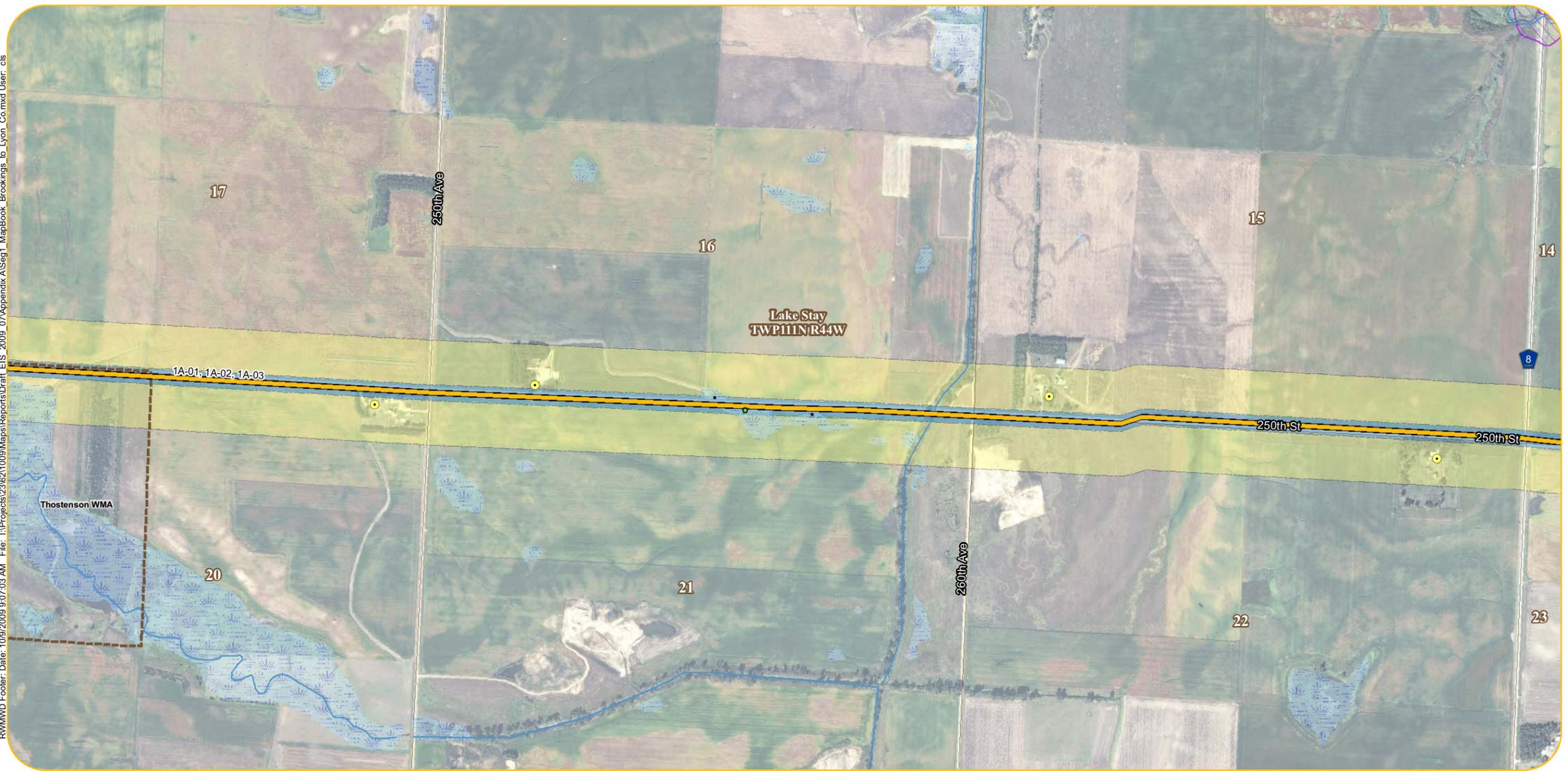
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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
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Appendix A - Sheet SL37
Detail Map
Segment 1,
Brookings County to Lyon County Substation



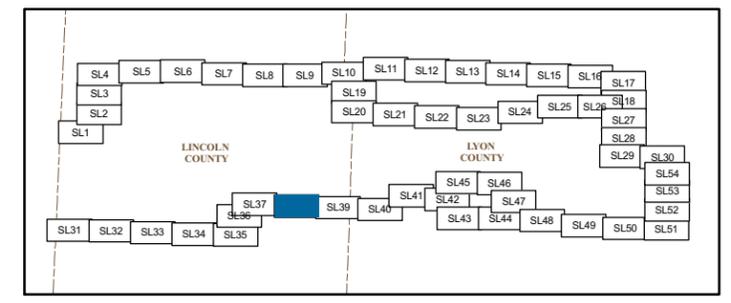
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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Hospitals Nursing Homes Observed Day Cares Schools Narrows | <p> Airport</p> <p> Organic Farms</p> <p> Center Pivot Irrigation</p> <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological Botanical Ecological Zoological <p>MCBS Biodiversity Significance</p> <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance | <p> Recreation Area</p> <ul style="list-style-type: none"> Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
|--|---|---|--|--|

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 1 - 5
 - 6 - 10
 - 11 - 15
- Historical Sites**
- 1 - 5
 - 6 - 20
 - >20

Appendix A - Sheet SL38
Detail Map
Segment 1,
Brookings County to Lyon County Substation

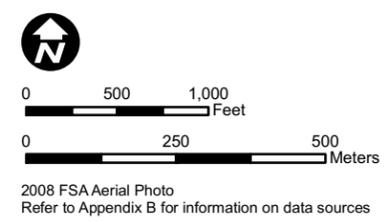


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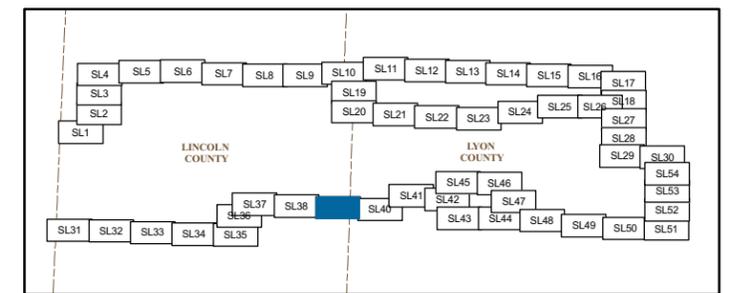


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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <p> Airport</p> <p> Organic Farms</p> <p> Center Pivot Irrigation</p> <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological Botanical Ecological Zoological <p>MCBS Biodiversity Significance</p> <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance | <p> Recreation Area</p> <ul style="list-style-type: none"> Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
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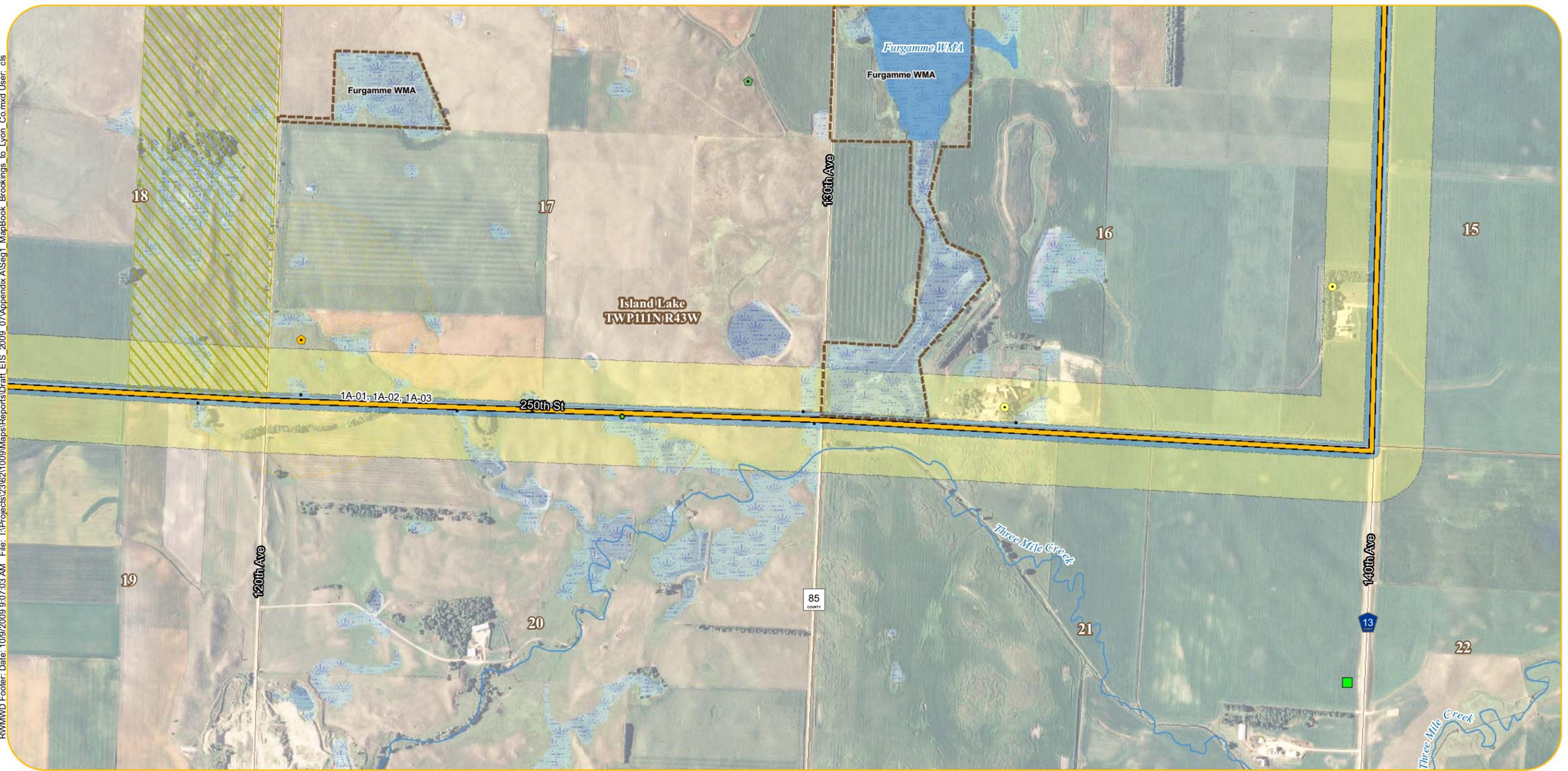
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL39
Detail Map
Segment 1,
Brookings County to Lyon County Substation

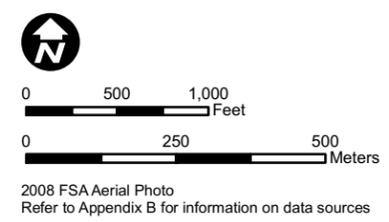


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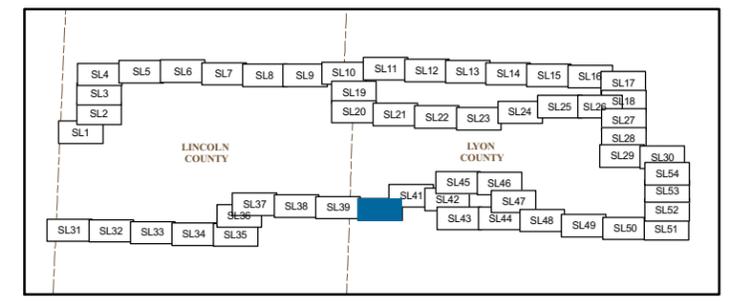


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|--|--|--|---|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <p>Airport</p> <ul style="list-style-type: none"> Organic Farms Center Pivot Irrigation <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological <p>MCBS Biodiversity Significance</p> <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <p>Recreation Area</p> <ul style="list-style-type: none"> Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
|--|--|--|---|--|

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



**Appendix A - Sheet SL40
Detail Map
Segment 1,
Brookings County to Lyon County Substation**

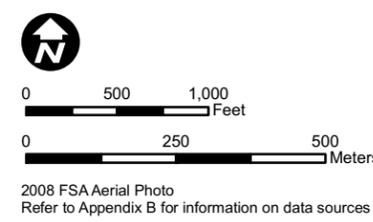


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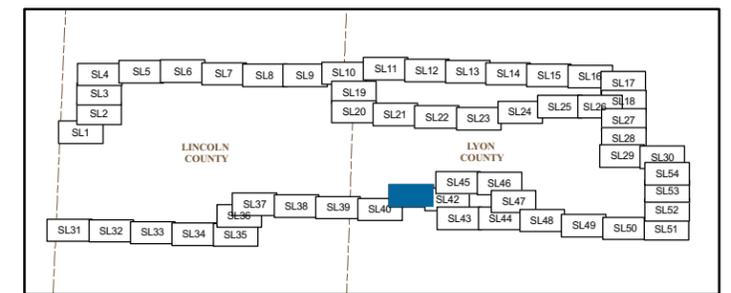


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|--|--|---|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <p> Airport</p> <p> Organic Farms</p> <p> Center Pivot Irrigation</p> <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological Botanical Ecological Zoological <p>MCBS Biodiversity Significance</p> <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <p> Recreation Area</p> <ul style="list-style-type: none"> Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
|--|--|---|--|--|

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



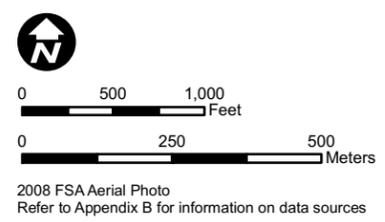
Appendix A - Sheet SL41
Detail Map
Segment 1,
Brookings County to Lyon County Substation



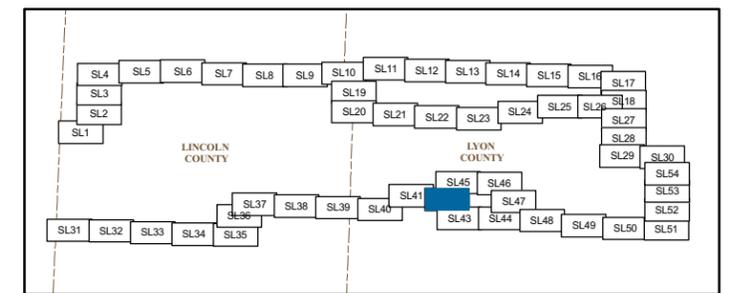
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- | | | | | | |
|--|--|--|--|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
|--|--|--|--|--|--|



Appendix A - Sheet SL42
Detail Map
Segment 1,
Brookings County to Lyon County Substation





- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

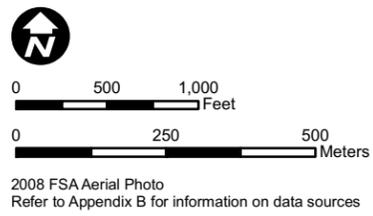
- Project Substations**
- Proposed Substation Areas
 - Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- MN DNR Natural Heritage**
- Botanical
 - Ecological
 - Zoological
 - Botanical
 - Ecological
 - Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance

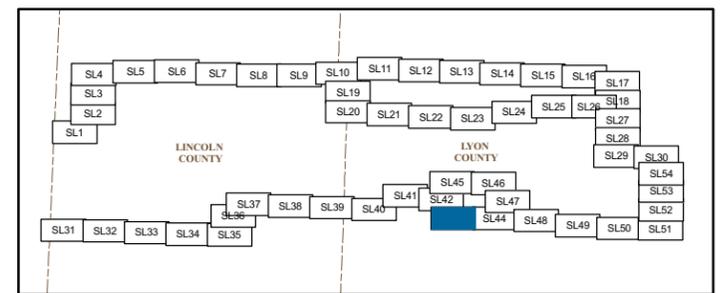
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



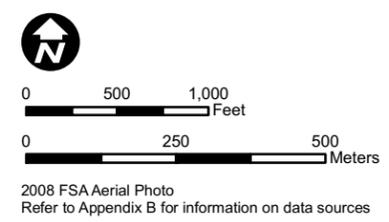
Appendix A - Sheet SL43
Detail Map
Segment 1,
Brookings County to Lyon County Substation



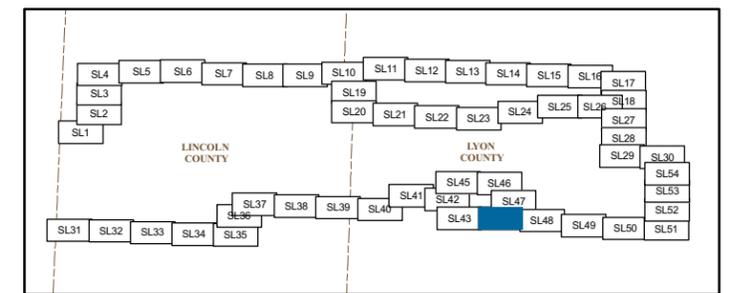
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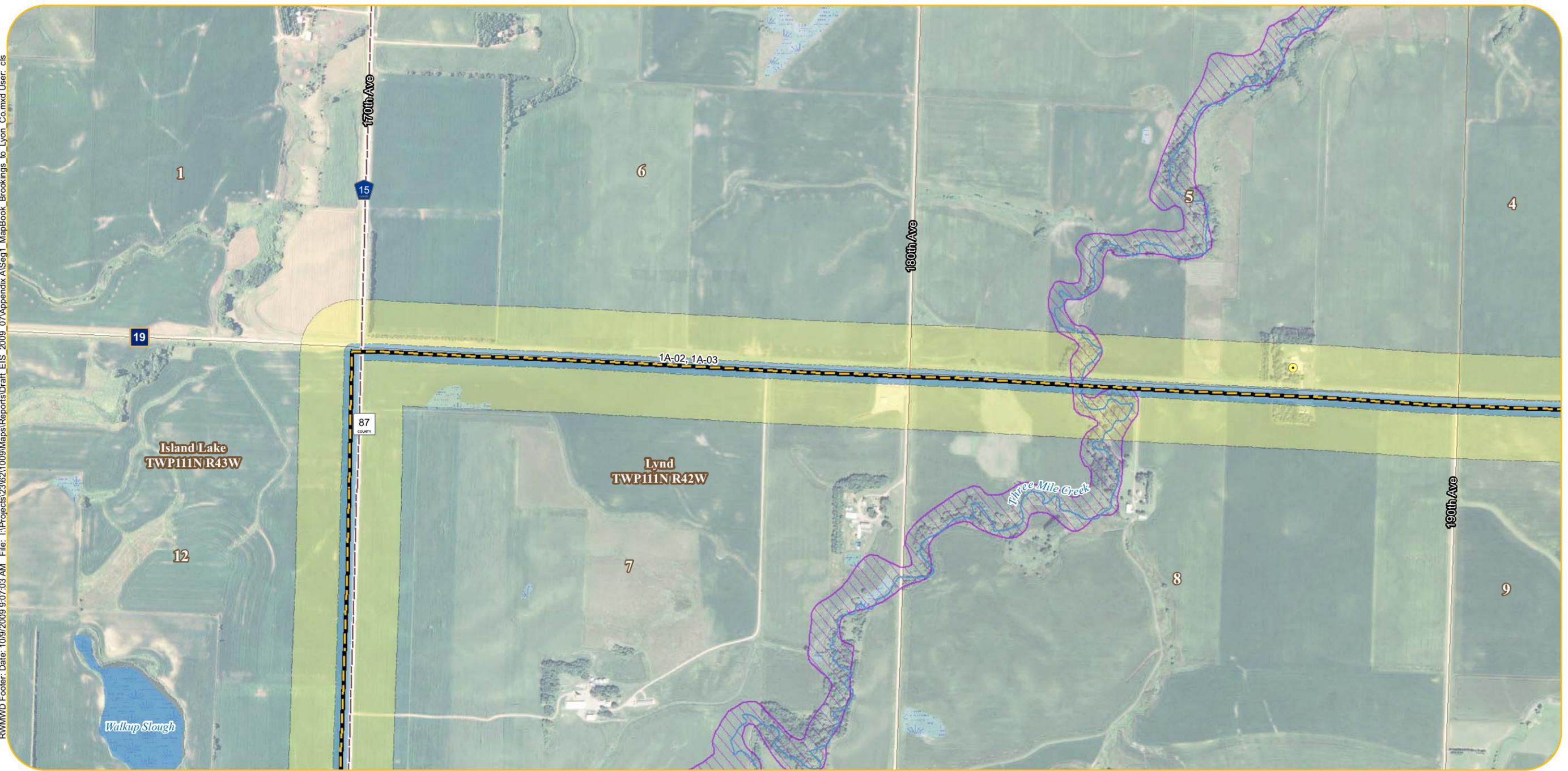
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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
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Appendix A - Sheet SL44
Detail Map
Segment 1,
Brookings County to Lyon County Substation

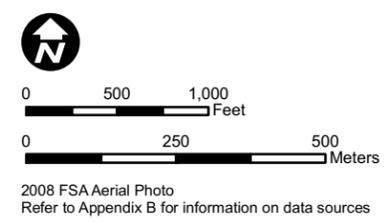


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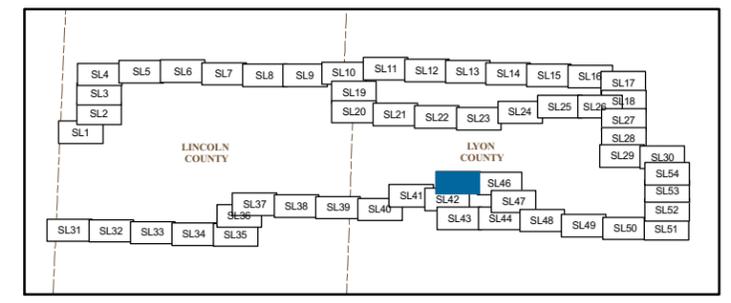


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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
|--|--|--|--|--|

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



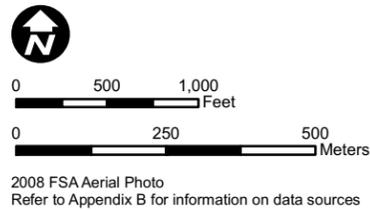
Appendix A - Sheet SL45
Detail Map
Segment 1,
Brookings County to Lyon County Substation



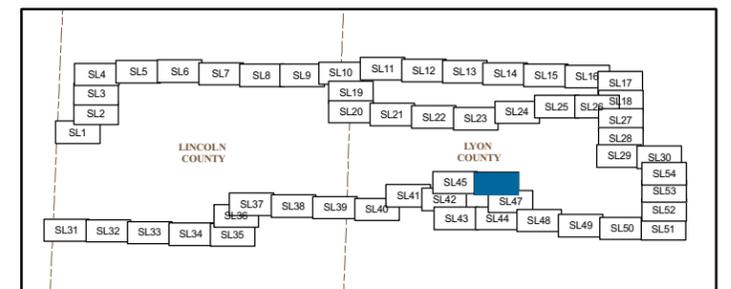
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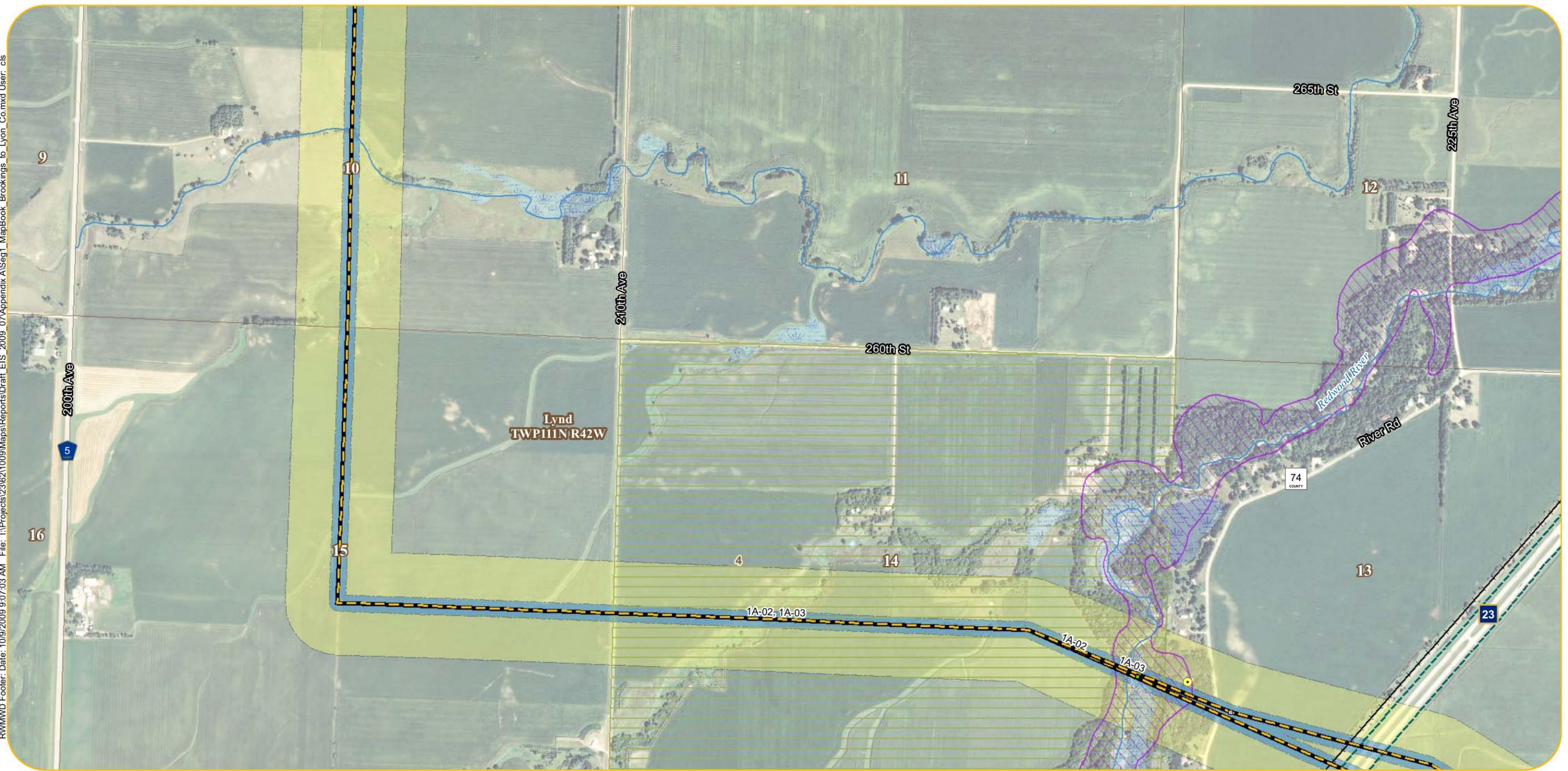
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|--|--|--|--|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <p> Airport</p> <p> Organic Farms</p> <p> Center Pivot Irrigation</p> <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <p> Recreation Area</p> <ul style="list-style-type: none"> Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 2 1 - 5 7 6 - 10 13 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 2 1 - 5 10 6 - 20 53 >20 |
|--|--|--|--|--|--|



Appendix A - Sheet SL46
Detail Map
Segment 1,
Brookings County to Lyon County Substation

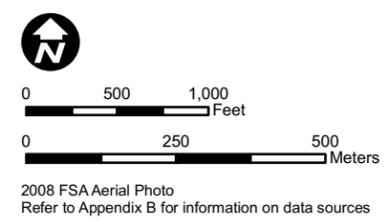
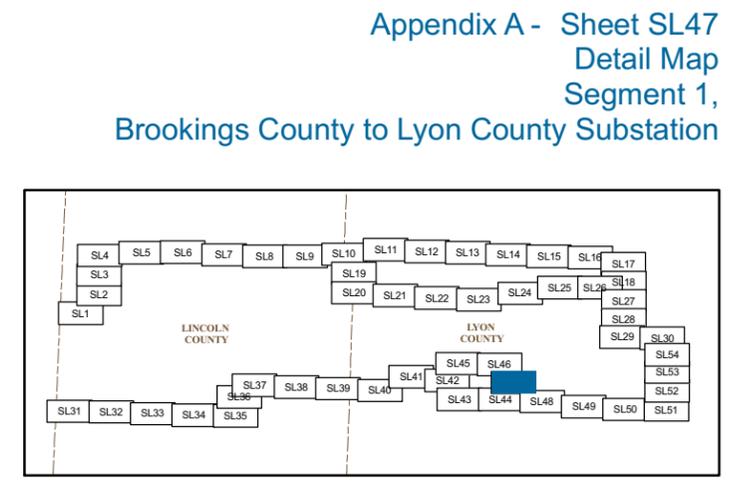


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| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
|--|--|--|--|--|

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 1 - 5
 - 6 - 10
 - 11 - 15
- Historical Sites**
- 1 - 5
 - 6 - 20
 - >20



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- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

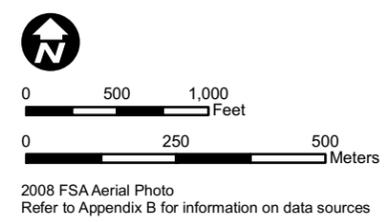
- Airport**
- Organic Farms
 - Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
 - Ecological
 - Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance
 - State-Designated RR Prairie

- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

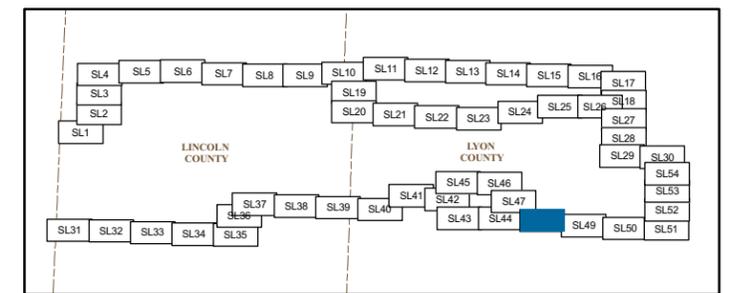
- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4

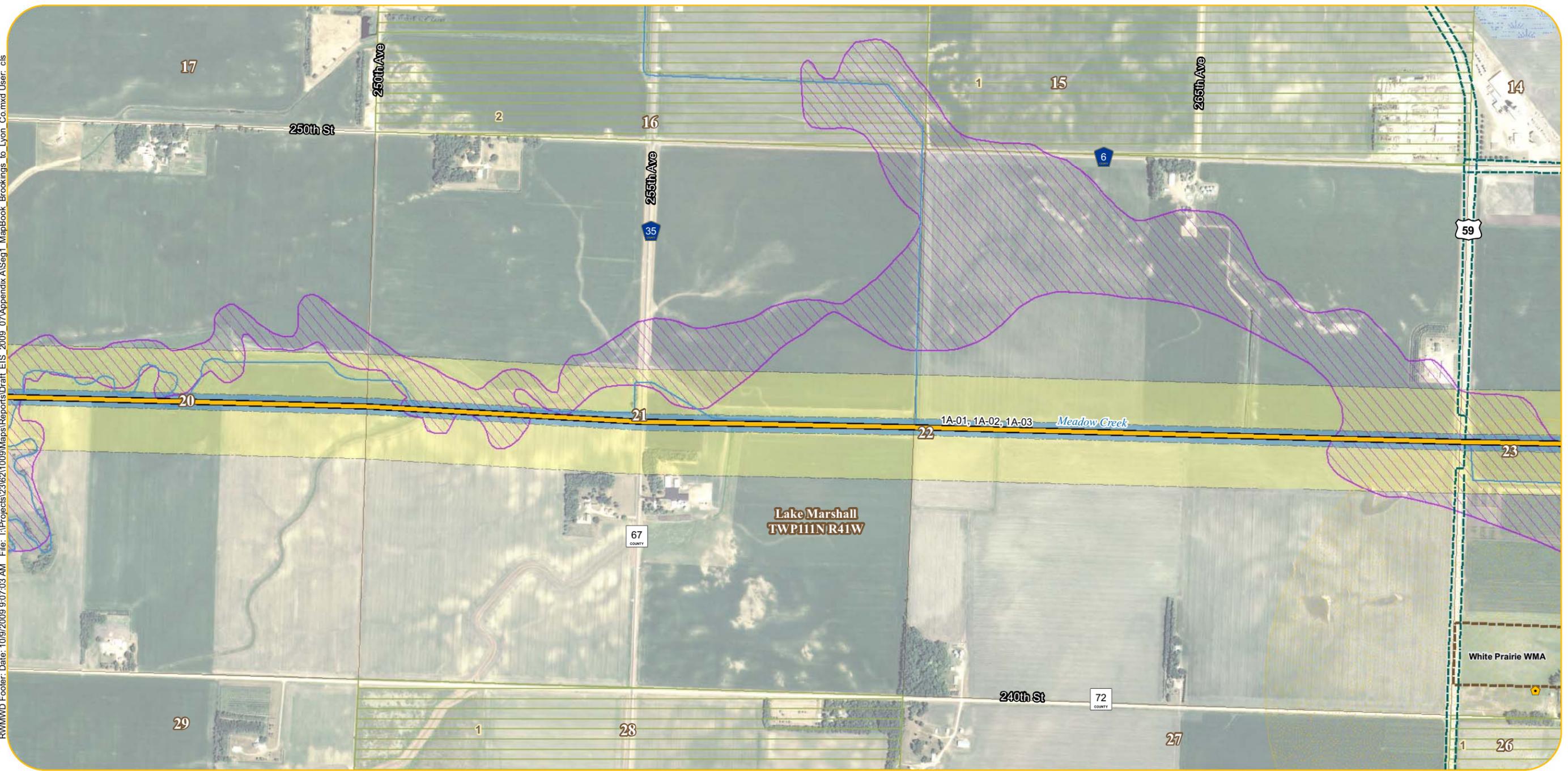
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL48
Detail Map
Segment 1,
Brookings County to Lyon County Substation



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- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

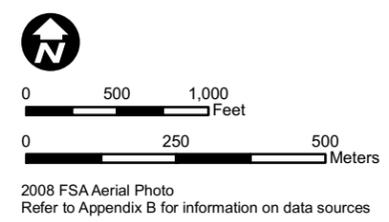
- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport
- Organic Farms
- Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological
- Botanical
- Ecological
- Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
- High Significance
- Outstanding Significance
- State-Designated RR Prairie

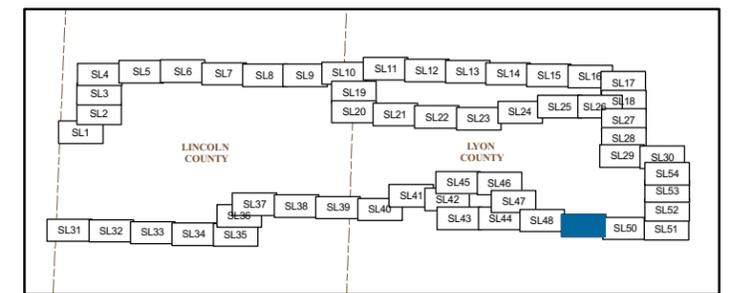
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

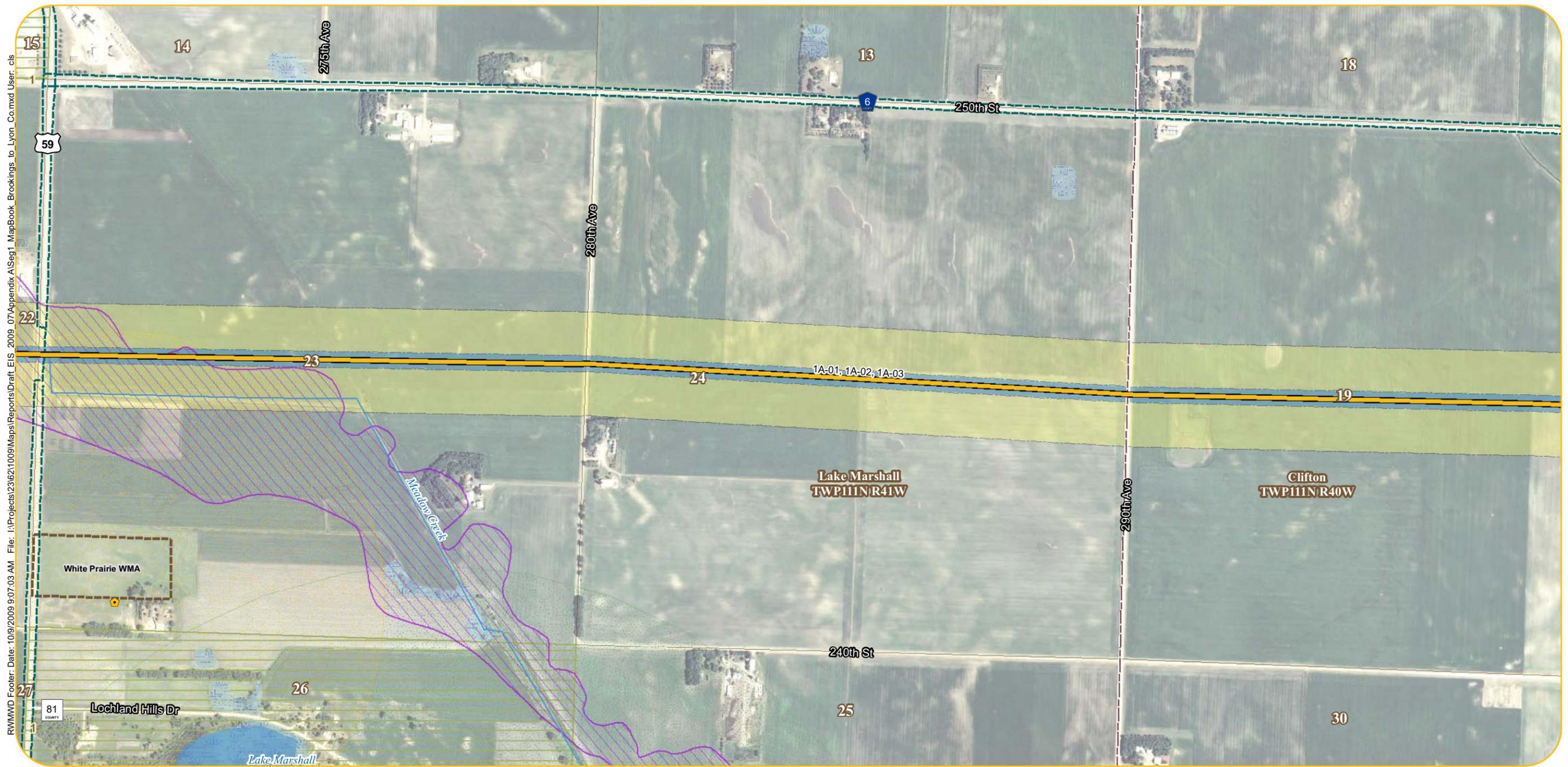
- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL49
Detail Map
Segment 1,
Brookings County to Lyon County Substation

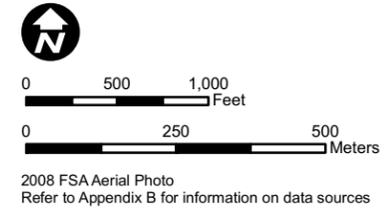




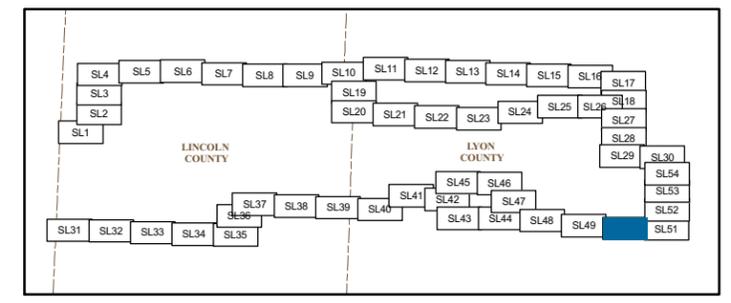
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- | | | | | |
|--|--|--|---|---|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <p>Airport</p> <p>Organic Farms</p> <p>Center Pivot Irrigation</p> <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <p>Recreation Area</p> <p>Regional Existing Trail</p> <p>Regional Planned Trail</p> <p>Regional Proposed Trail</p> <p>State Existing Trail</p> <p>Snowmobile Trail</p> <p>Scenic Byway</p> <p>Regional Park</p> <p>Scientific & Natural Area</p> <p>State Park</p> <p>State Recreation Area</p> <p>State Wayside</p> <p>Wildlife Management Area</p> <p>Wildlife Refuge</p> <p>Tribal Land</p> | <p>Fish Technology Center</p> <p>Fisheries Research Station</p> <p>National Fish Hatchery</p> <p>National Wildlife Refuge</p> <p>Waterfowl Production Area</p> <p>Q3 FEMA Floodplain</p> <p>Trout Streams</p> <p>Wild and Scenic Rivers</p> <p>Wetland (NWI)</p> <p>Designated Wildlife Lakes</p> <p>Public Waters Inventory Basins</p> <p>Public Water Inventory Watercourse</p> <p>Wetland Crossings > 1,000 Feet</p> |
|--|--|--|---|---|

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



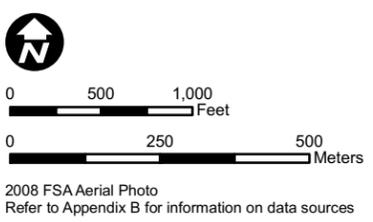
Appendix A - Sheet SL50
Detail Map
Segment 1,
Brookings County to Lyon County Substation



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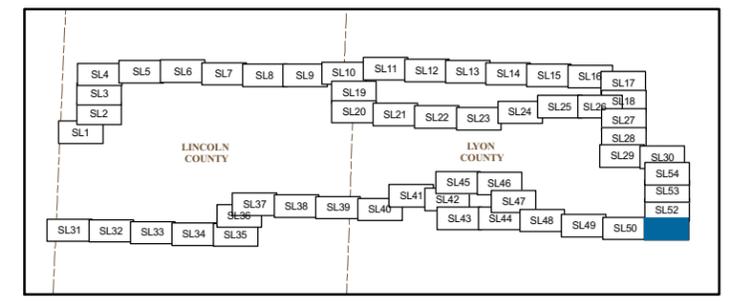


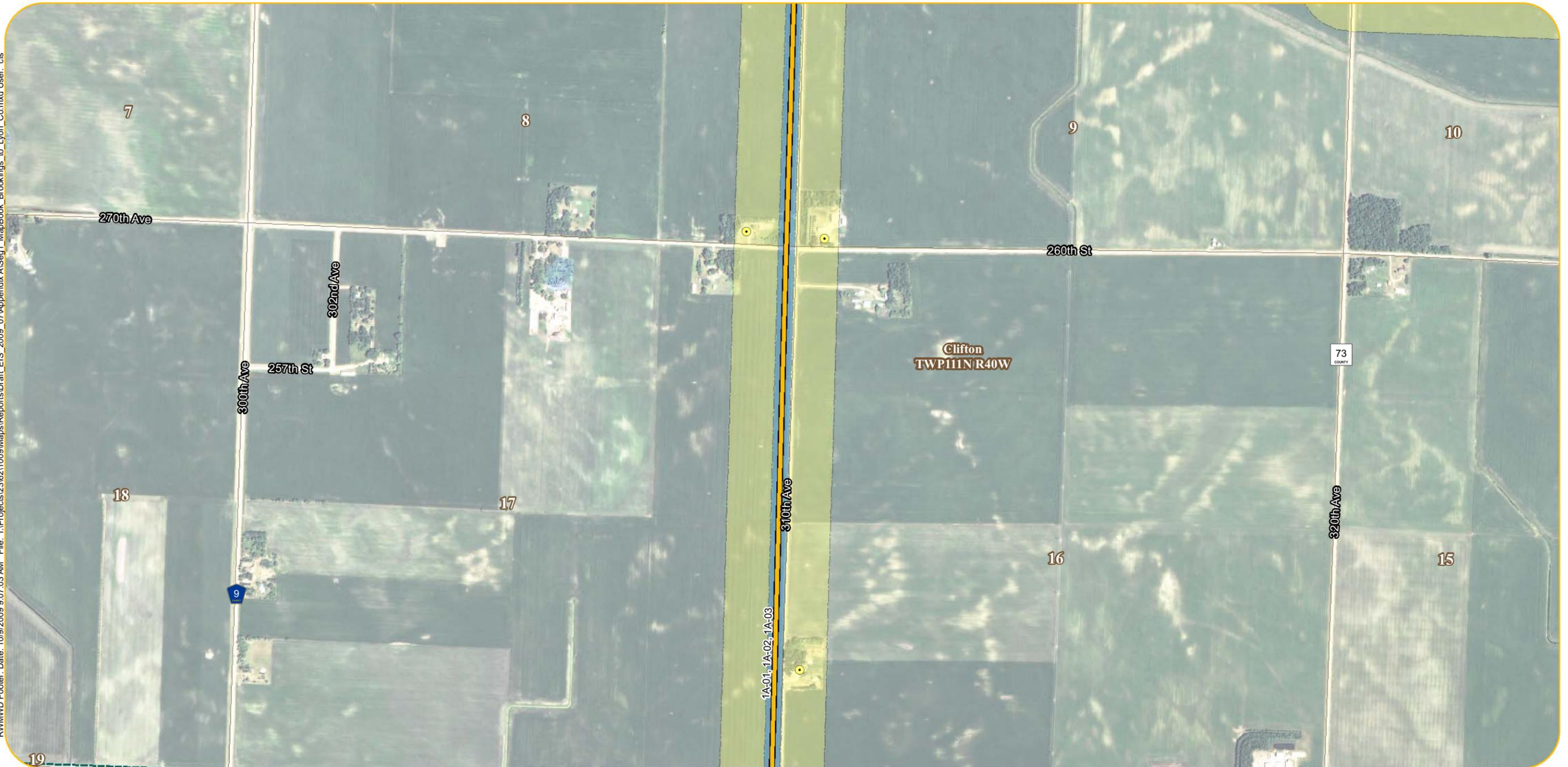
- | | | | | |
|--|--|--|--|--|
| <p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both | <p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows | <ul style="list-style-type: none"> Airport Organic Farms Center Pivot Irrigation MN DNR Natural Heritage Botanical Ecological Zoological Botanical Ecological Zoological MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie | <ul style="list-style-type: none"> Recreation Area Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land | <ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NWI) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet |
|--|--|--|--|--|



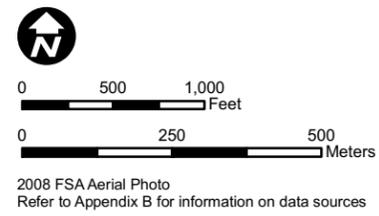
- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20

Appendix A - Sheet SL51
Detail Map
Segment 1,
Brookings County to Lyon County Substation

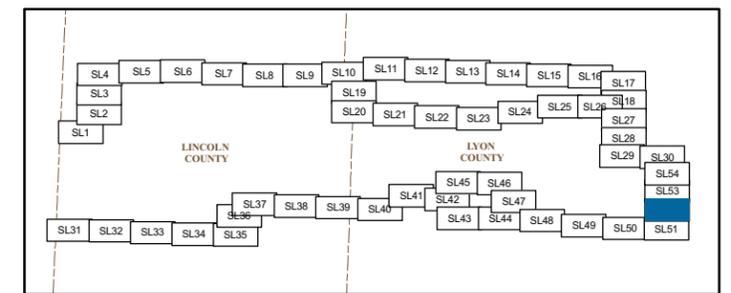


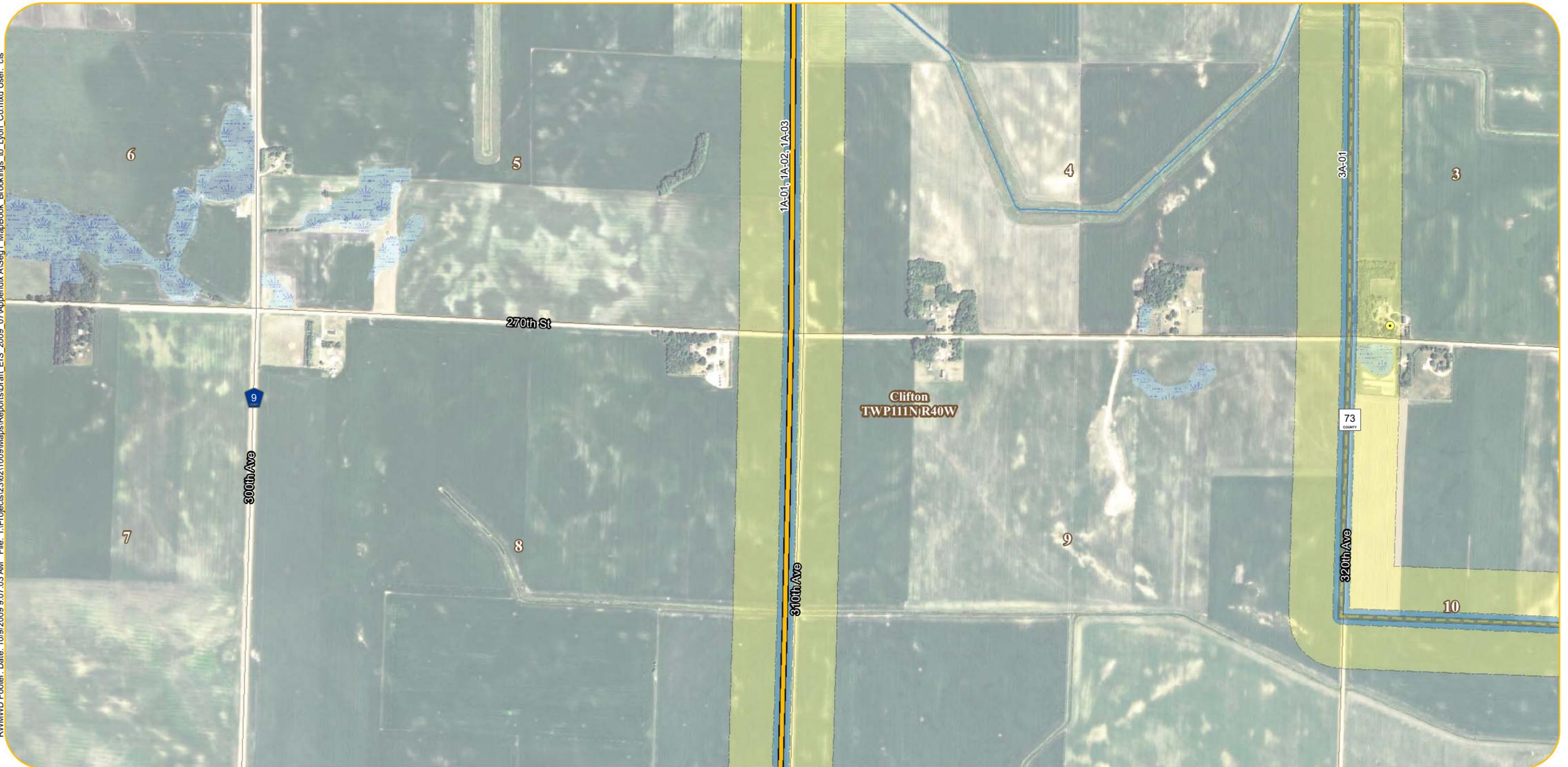


<p>Original Alignments</p> <ul style="list-style-type: none"> Preferred Route Alternate Route Additional Alternative Routes Variation on Preferred Route Variation on Alternate Route Variation on Both 	<p>Project Substations</p> <p>Proposed Substation Areas</p> <ul style="list-style-type: none"> Preferred Alternate 150-foot ROW 1,000-foot Route Width Residences within 75 Feet Residences within 500 Feet Churches Cemeteries Hospitals Nursing Homes Observed Day Cares Schools Narrows 	<p> Airport</p> <p> Organic Farms</p> <p> Center Pivot Irrigation</p> <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological Botanical Ecological Zoological <p>MCBS Biodiversity Significance</p> <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance State-Designated RR Prairie 	<p> Recreation Area</p> <ul style="list-style-type: none"> Regional Existing Trail Regional Planned Trail Regional Proposed Trail State Existing Trail Snowmobile Trail Scenic Byway Regional Park Scientific & Natural Area State Park State Recreation Area State Wayside Wildlife Management Area Wildlife Refuge Tribal Land 	<ul style="list-style-type: none"> Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Q3 FEMA Floodplain Trout Streams Wild and Scenic Rivers Wetland (NW1) Designated Wildlife Lakes Public Waters Inventory Basins Public Water Inventory Watercourse Wetland Crossings > 1,000 Feet 	<p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 2.5 2.6 - 5.0 5.1 - 10.0 10.1 - 20.4 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 10 11 - 15 <p>Historical Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 20 >20
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Appendix A - Sheet SL52
Detail Map
Segment 1,
Brookings County to Lyon County Substation





- Original Alignments**
- Preferred Route
 - Alternate Route
 - Additional Alternative Routes**
 - Variation on Preferred Route
 - Variation on Alternate Route
 - Variation on Both

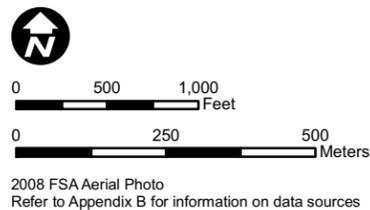
- Project Substations**
- Proposed Substation Areas**
- Preferred
 - Alternate
 - 150-foot ROW
 - 1,000-foot Route Width
 - Residences within 75 Feet
 - Residences within 500 Feet
 - Churches
 - Cemeteries
 - Hospitals
 - Nursing Homes
 - Observed Day Cares
 - Schools
 - Narrows

- Airport
- Organic Farms
- Center Pivot Irrigation
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological
- Botanical
- Ecological
- Zoological
- MCBS Biodiversity Significance**
- Moderate Significance
- High Significance
- Outstanding Significance
- State-Designated RR Prairie

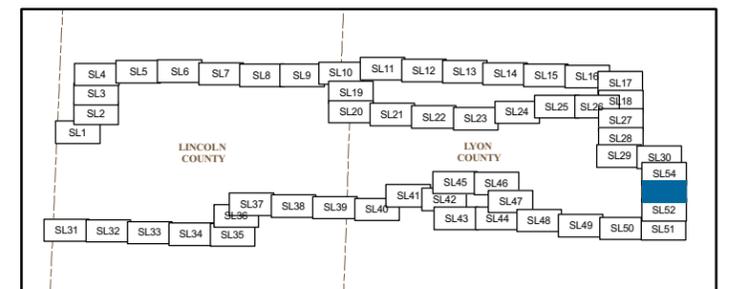
- Recreation Area
- Regional Existing Trail
- Regional Planned Trail
- Regional Proposed Trail
- State Existing Trail
- Snowmobile Trail
- Scenic Byway
- Regional Park
- Scientific & Natural Area
- State Park
- State Recreation Area
- State Wayside
- Wildlife Management Area
- Wildlife Refuge
- Tribal Land

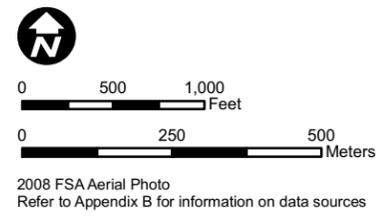
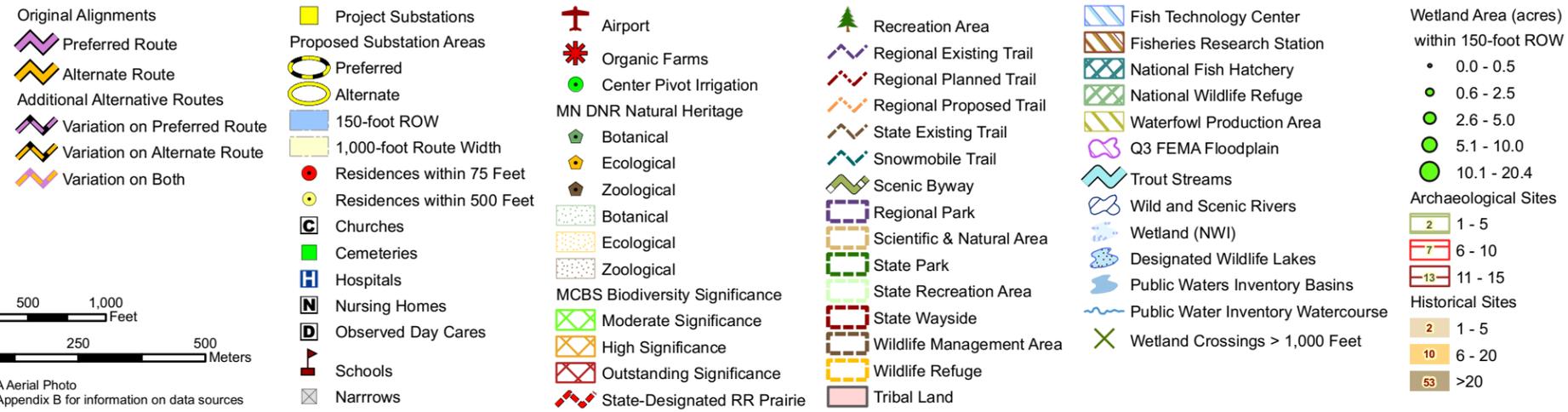
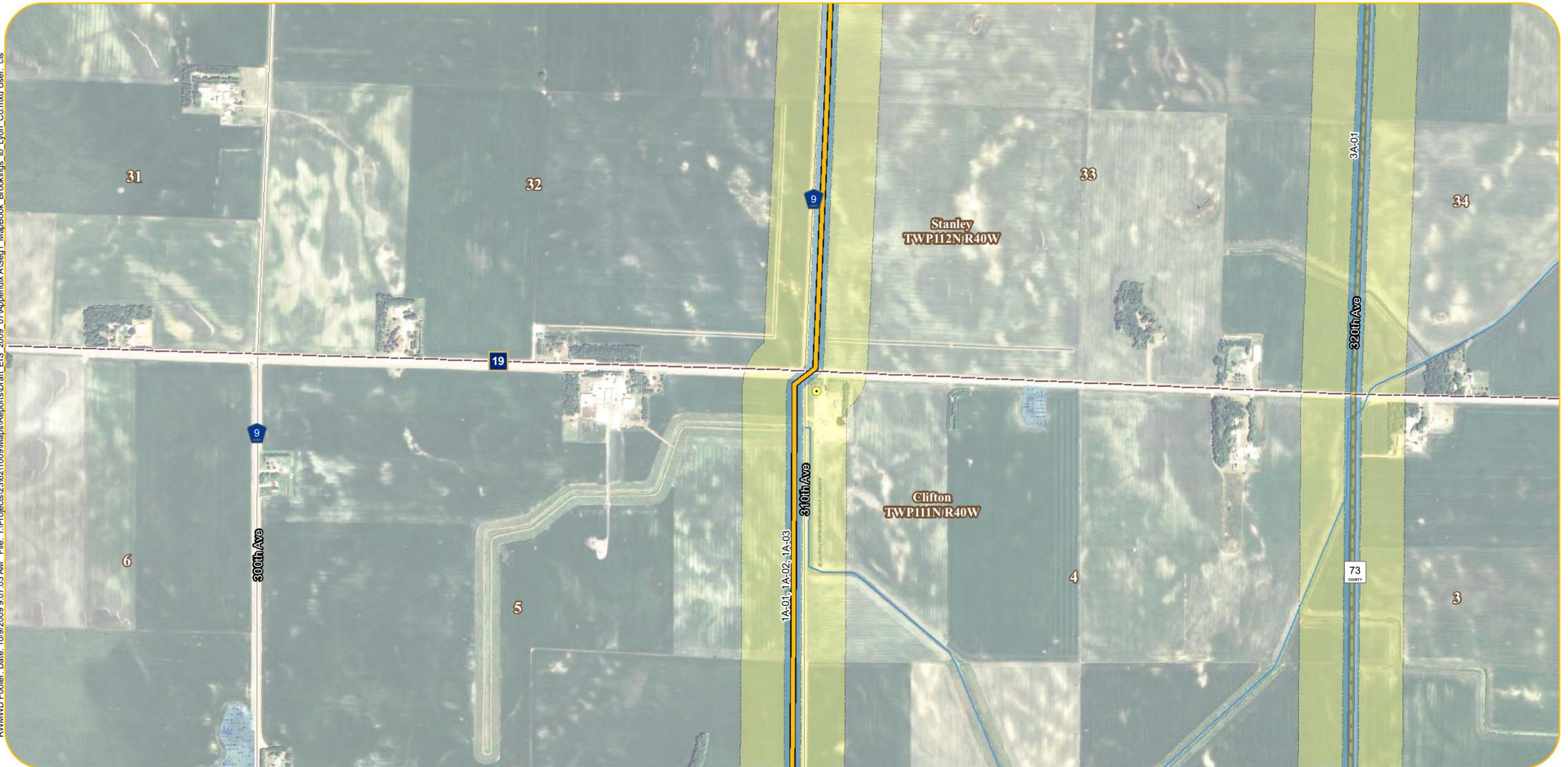
- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- Q3 FEMA Floodplain
- Trout Streams
- Wild and Scenic Rivers
- Wetland (NWI)
- Designated Wildlife Lakes
- Public Waters Inventory Basins
- Public Water Inventory Watercourse
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 2.5
 - 2.6 - 5.0
 - 5.1 - 10.0
 - 10.1 - 20.4
- Archaeological Sites**
- 2 1 - 5
 - 7 6 - 10
 - 13 11 - 15
- Historical Sites**
- 2 1 - 5
 - 10 6 - 20
 - 53 >20



Appendix A - Sheet SL53
Detail Map
Segment 1,
Brookings County to Lyon County Substation





Appendix A - Sheet SL54
Detail Map
Segment 1,
Brookings County to Lyon County Substation

