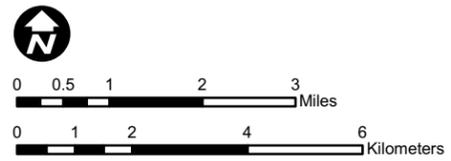
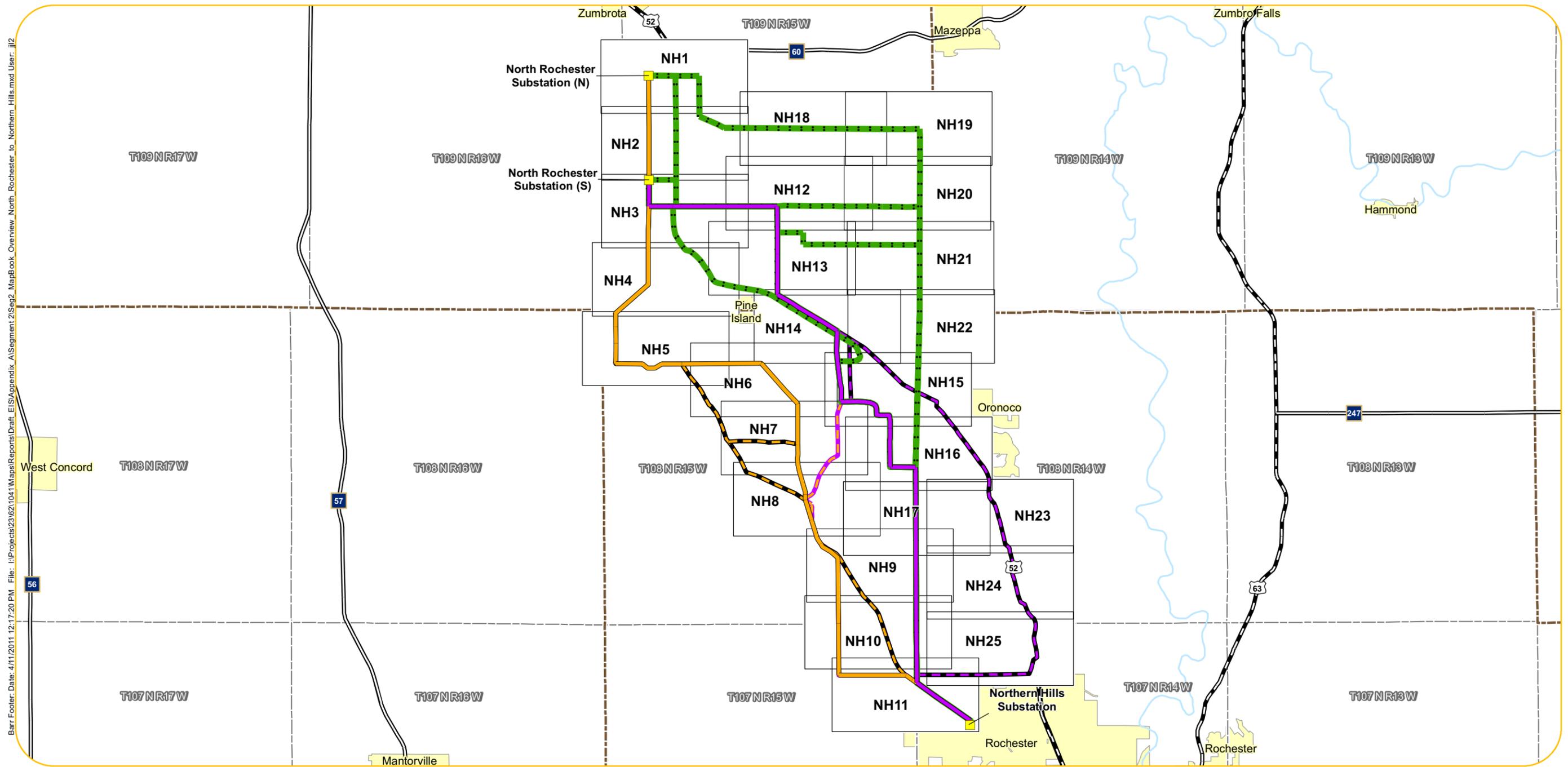
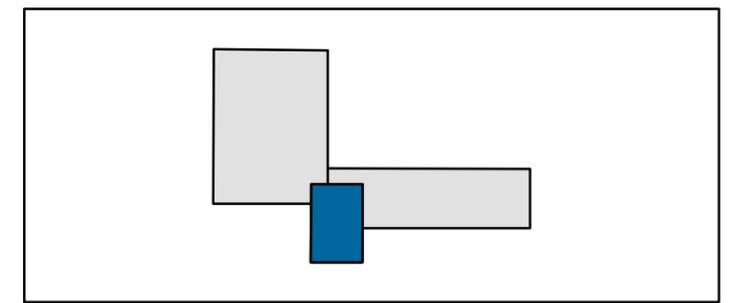


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- Project Substations
- NH1 Map Index
- County Boundaries
- Original Alignments**
- P Route
- A Route
- Additional Alternative Routes**
- Variation on P Route
- Variation on A Route
- Variation on Both
- Parallel Alignment

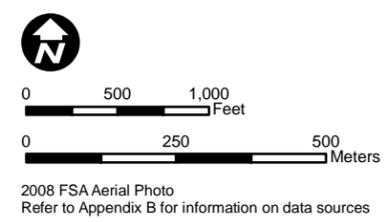
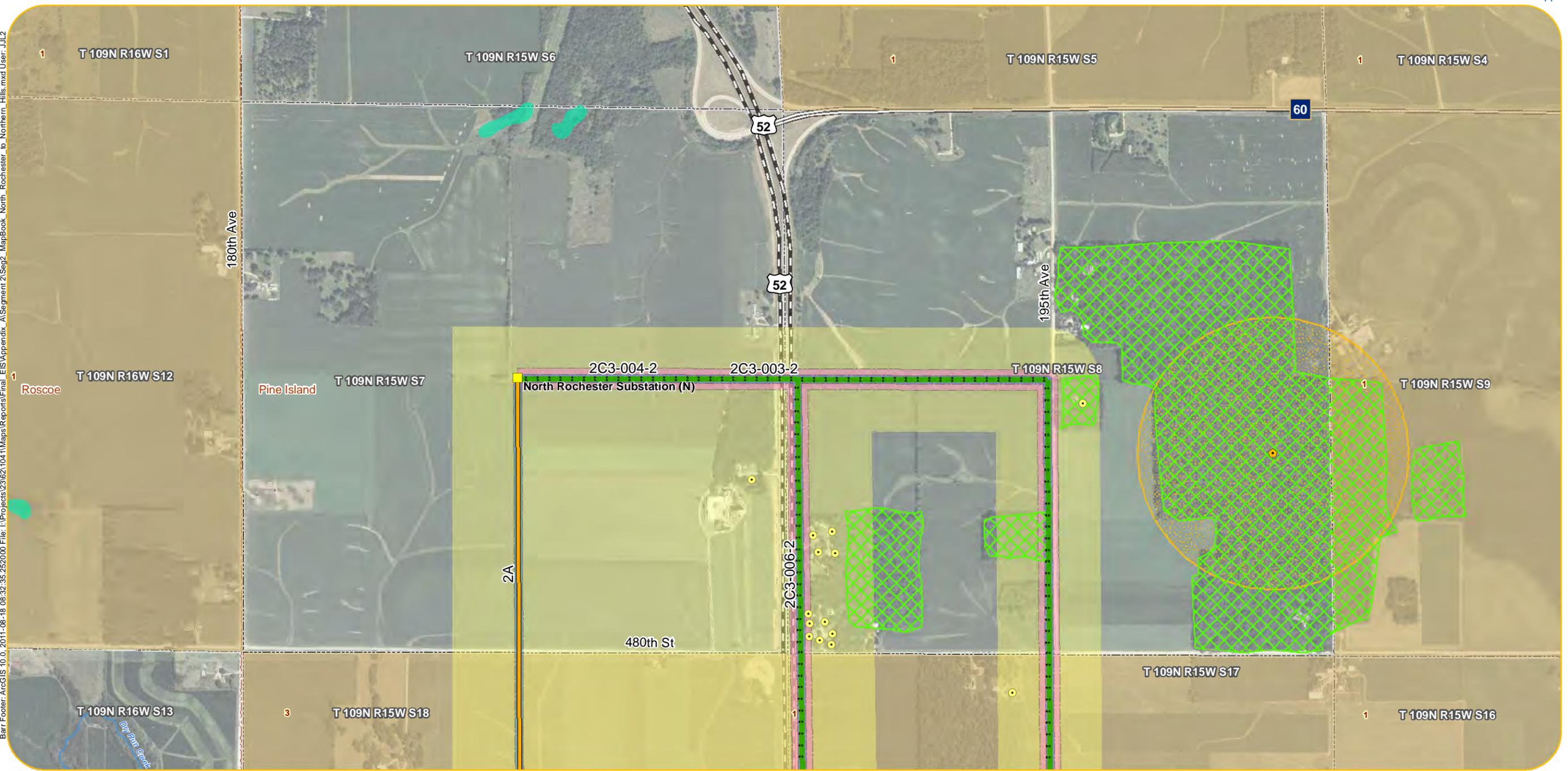
Appendix A - Overview Map
Segment 2,
North Rochester Substation to Northern Hills Substation



Refer to Appendix B for information on data sources

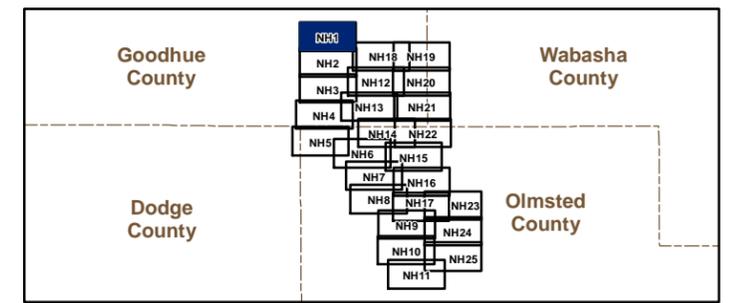
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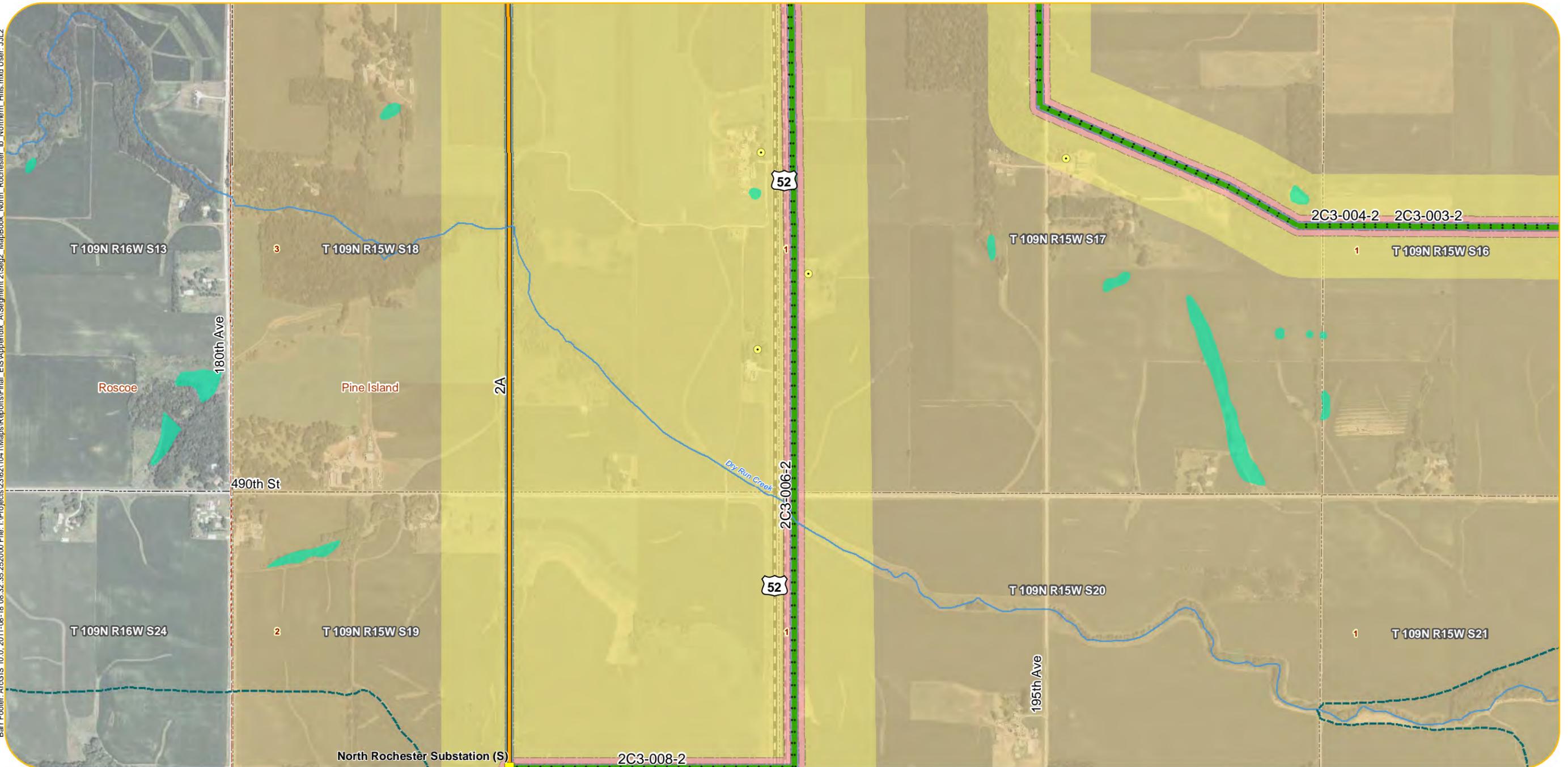


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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |

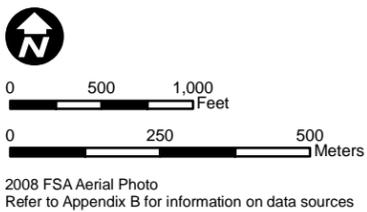
Appendix A - Sheet NH1
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



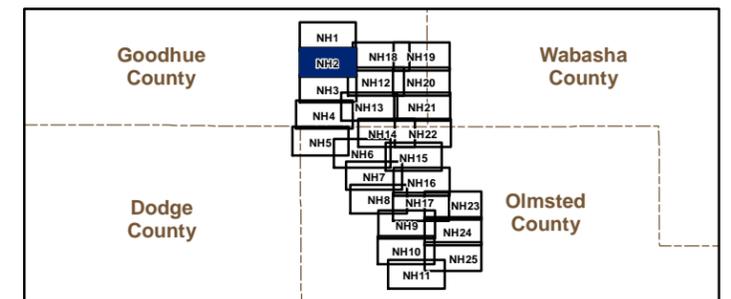
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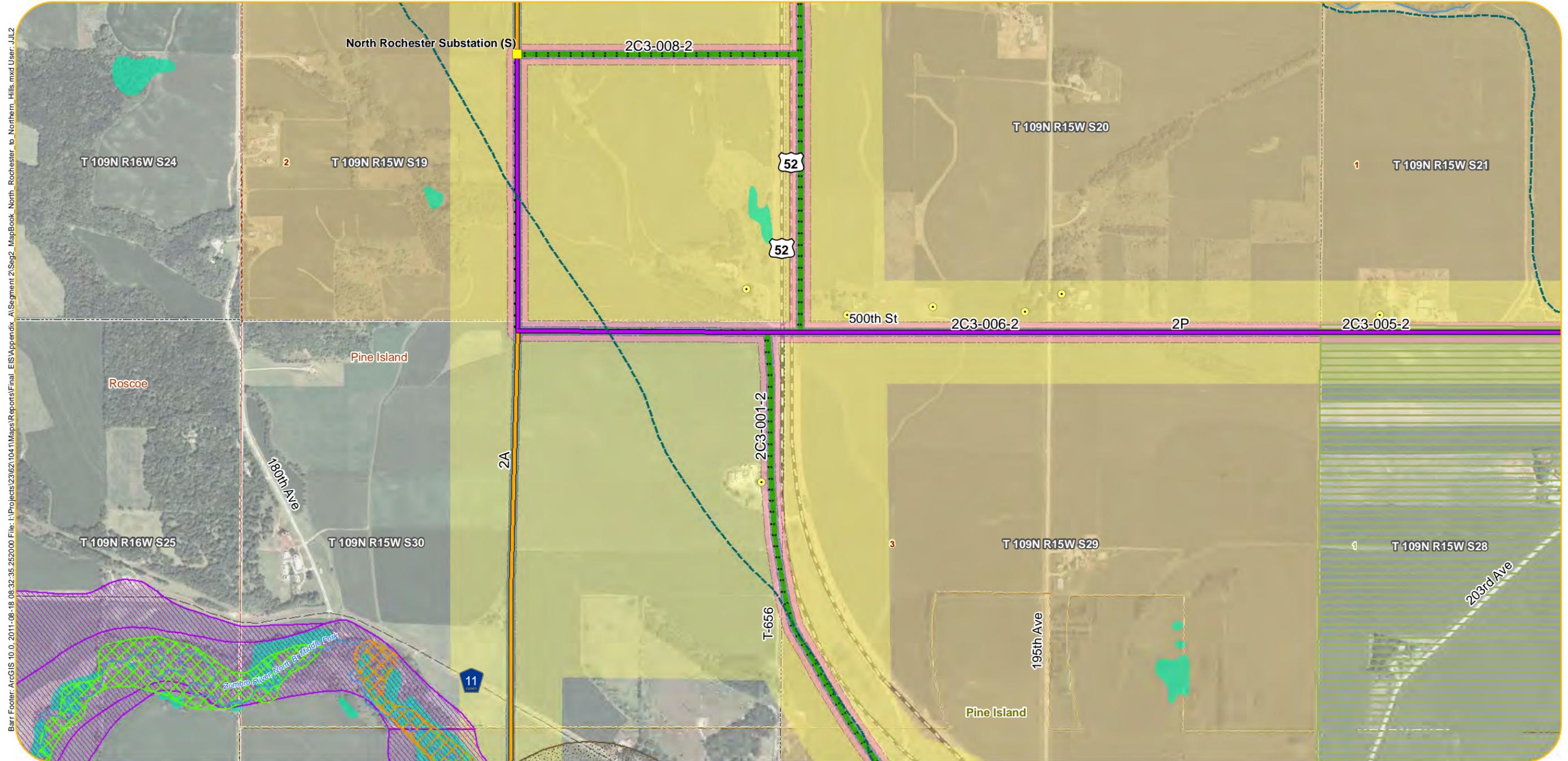
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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
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| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |



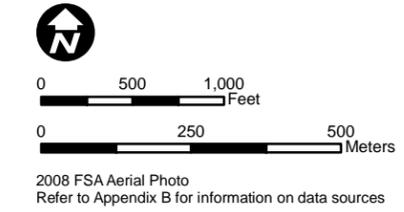
Appendix A - Sheet NH2
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



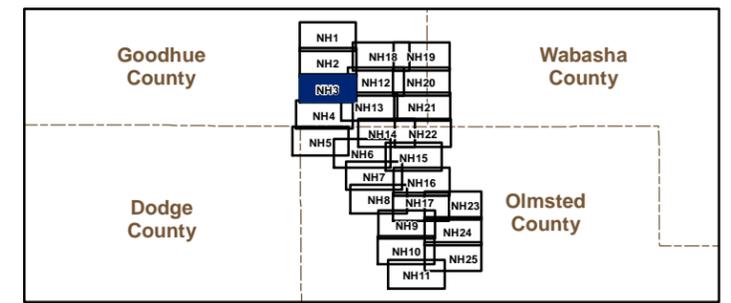
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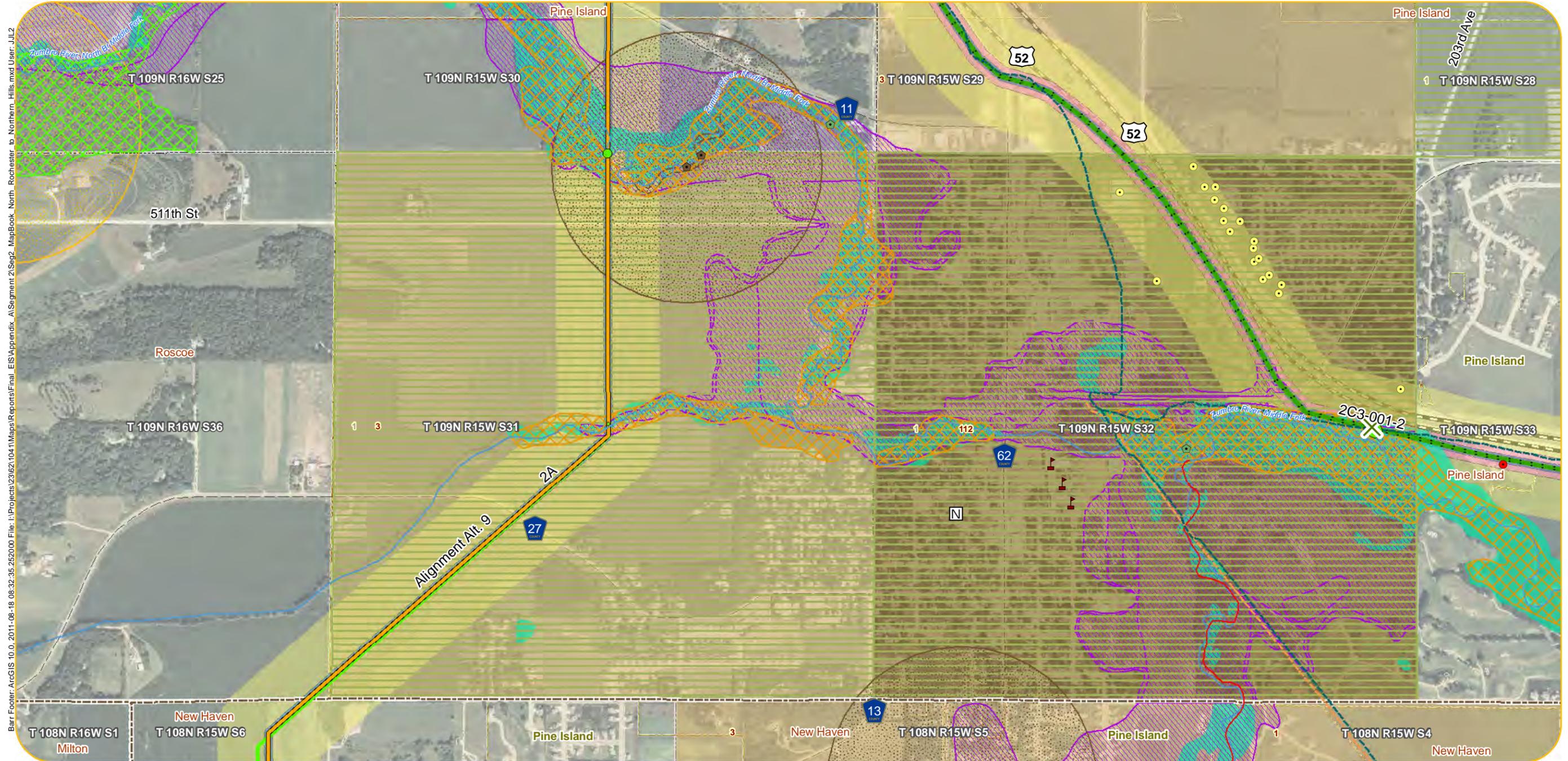
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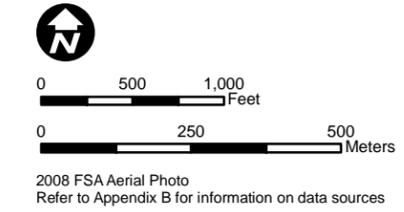
Appendix A - Sheet NH3
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



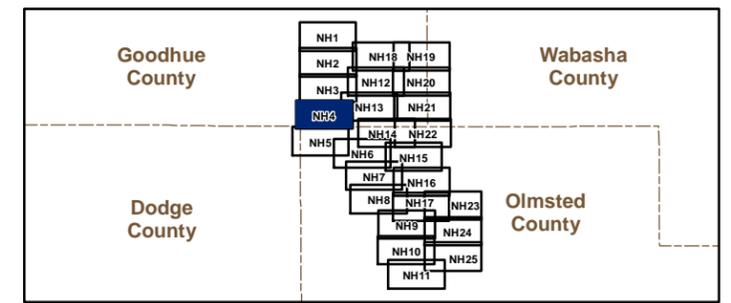
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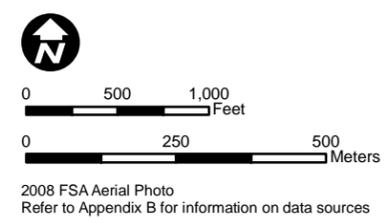
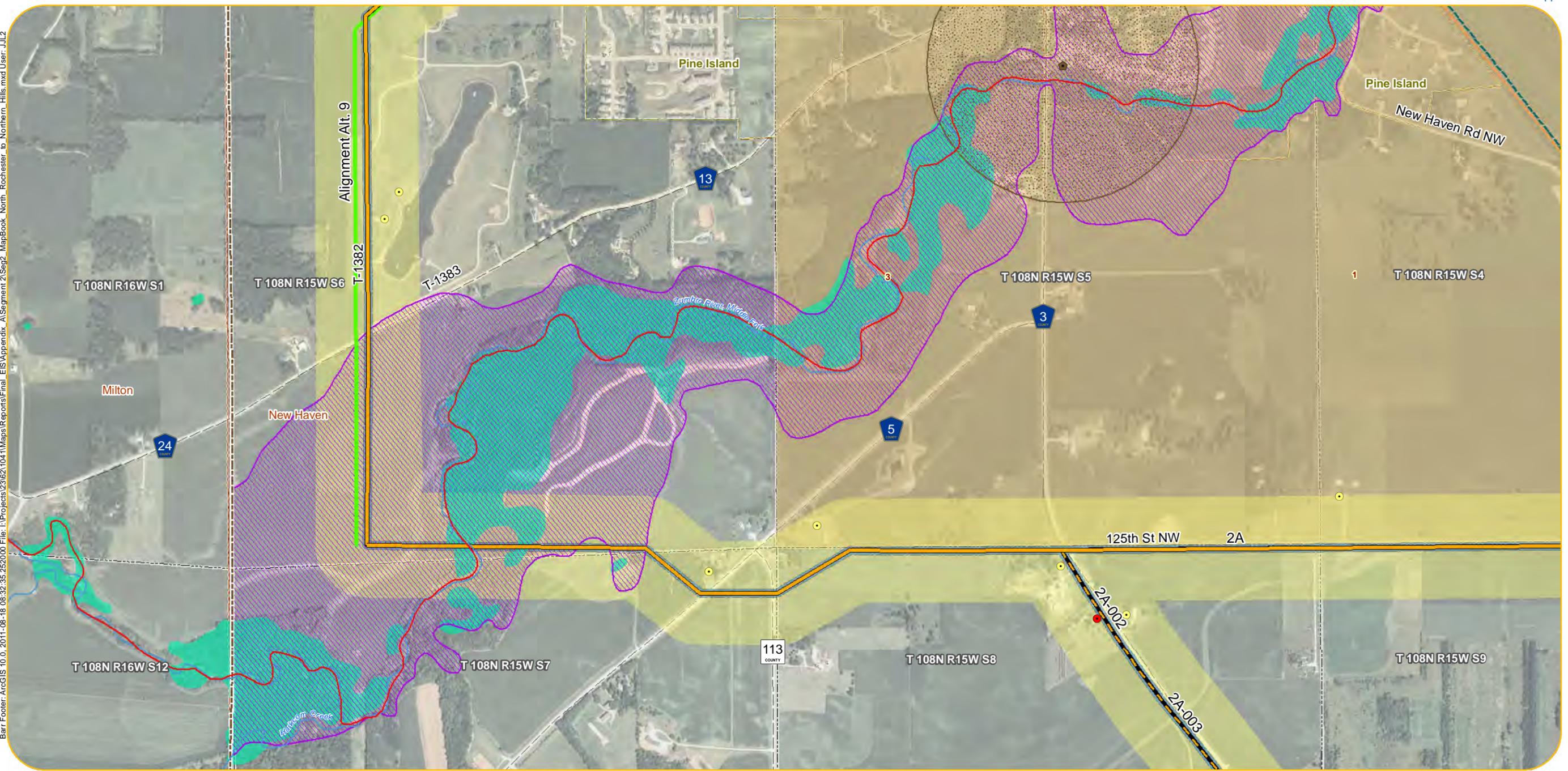
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Appendix A - Sheet NH4
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

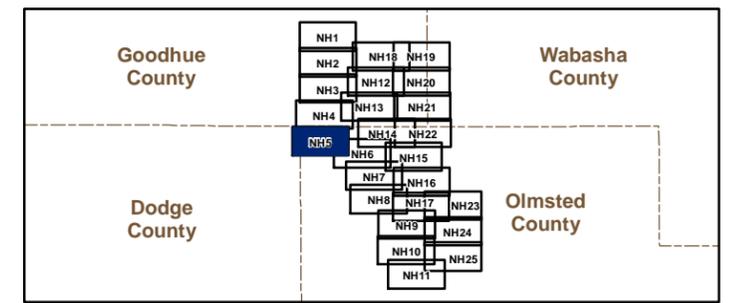


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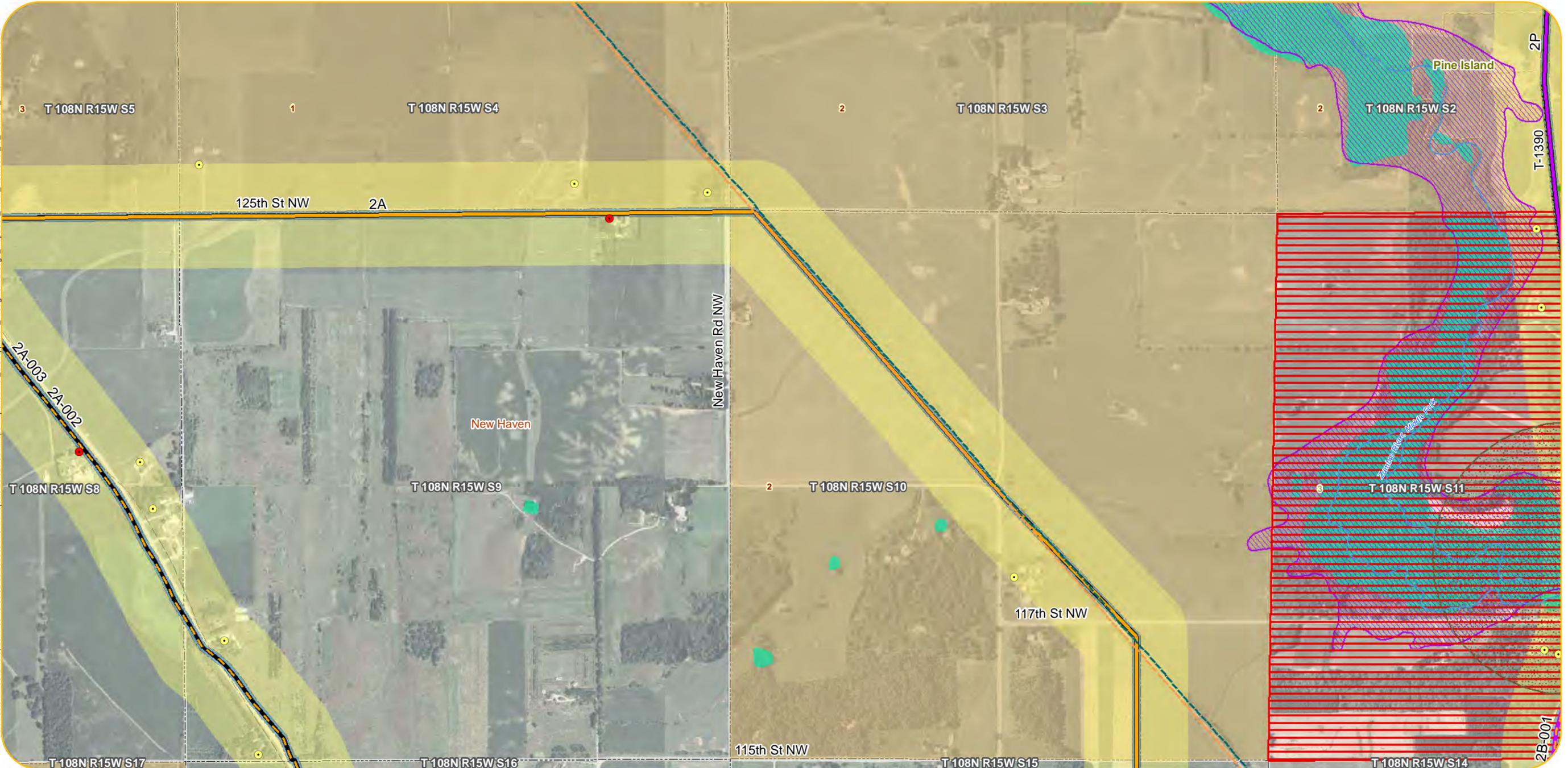


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| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |

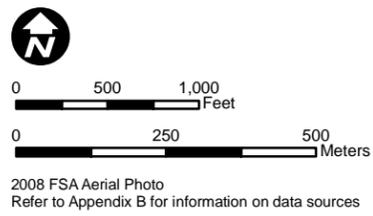
Appendix A - Sheet NH5
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



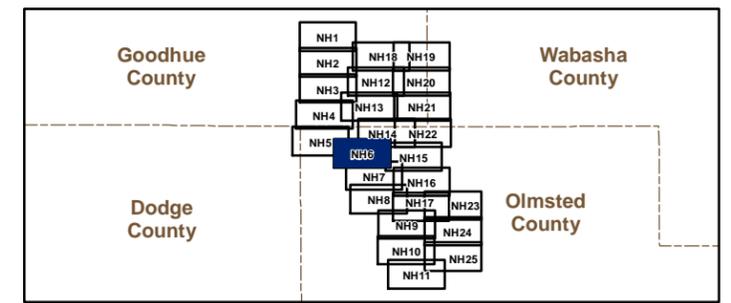
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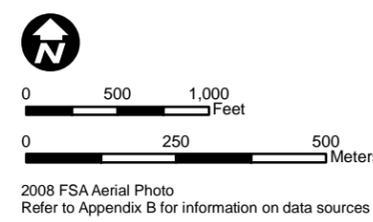
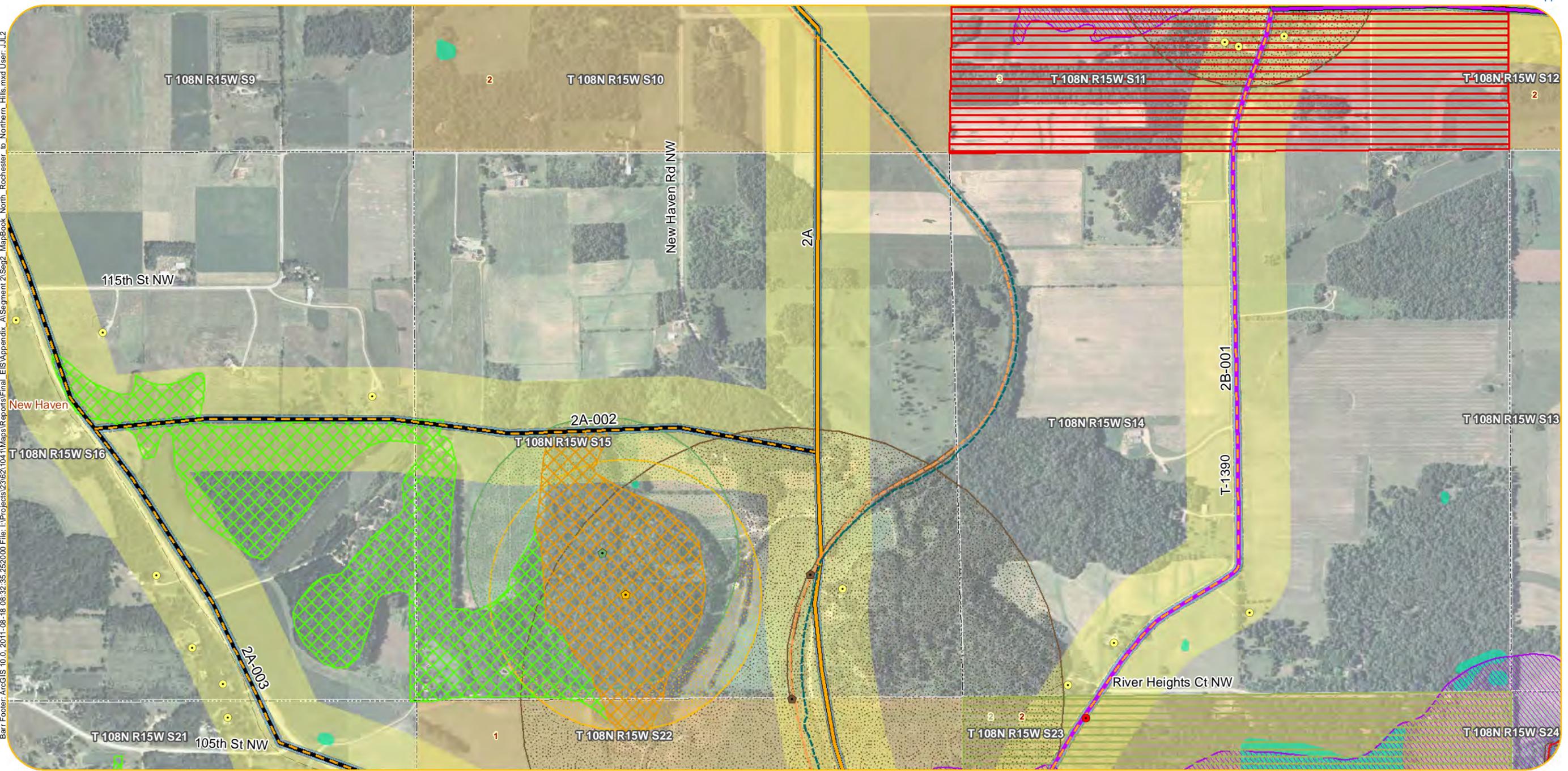
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| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |



Appendix A - Sheet NH6
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

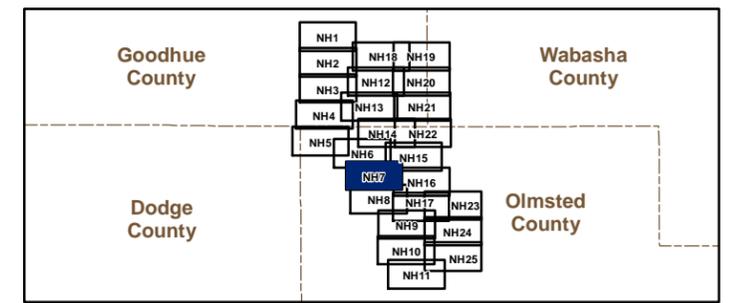


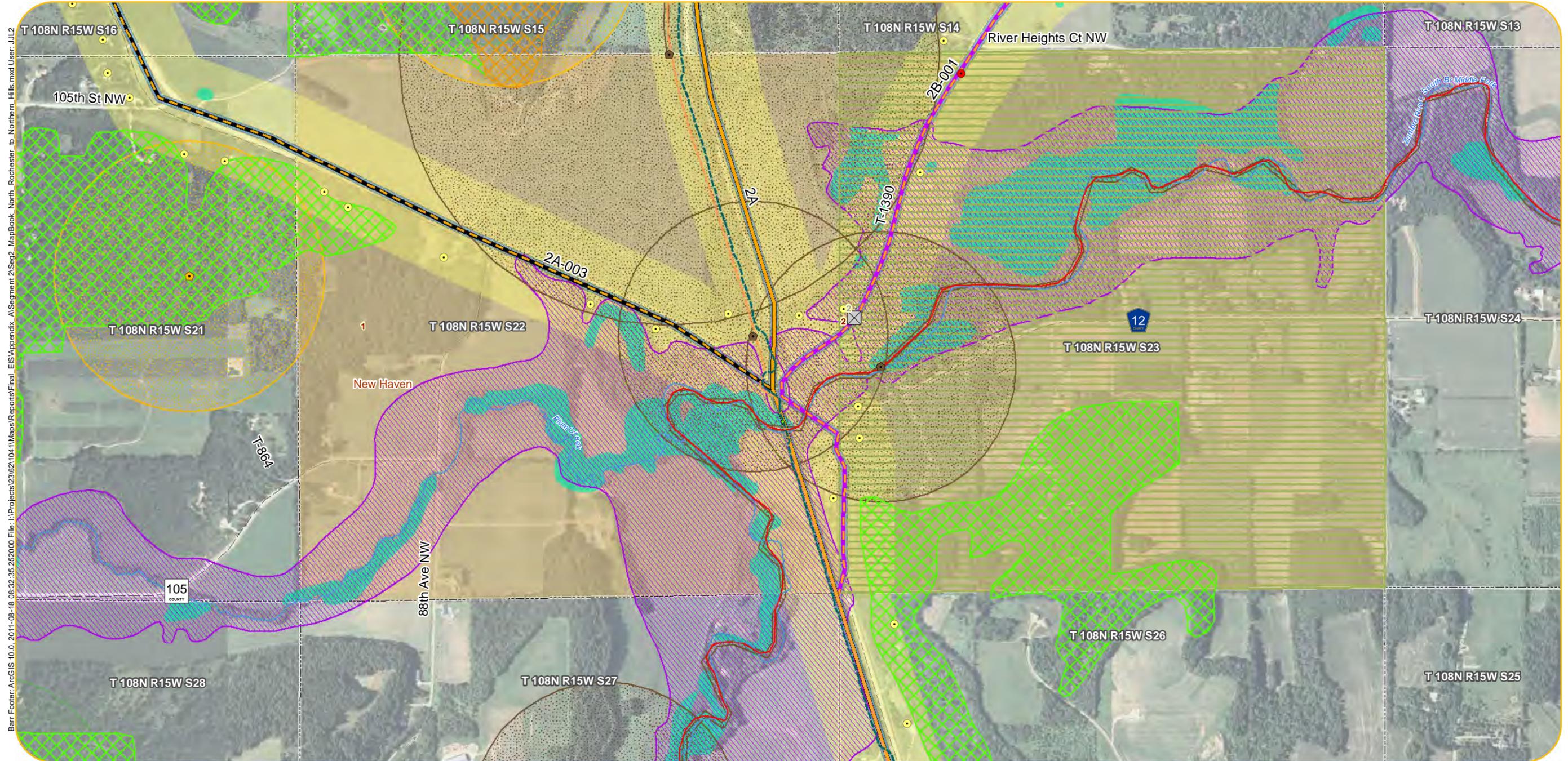
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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |

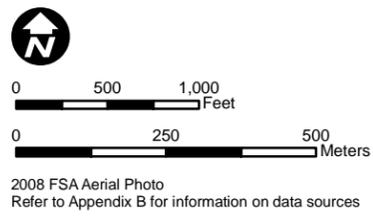
Appendix A - Sheet NH7
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



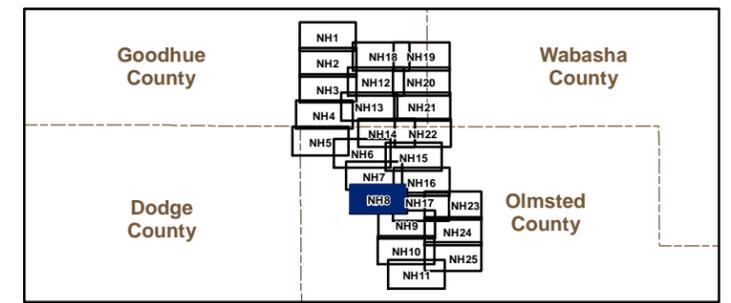


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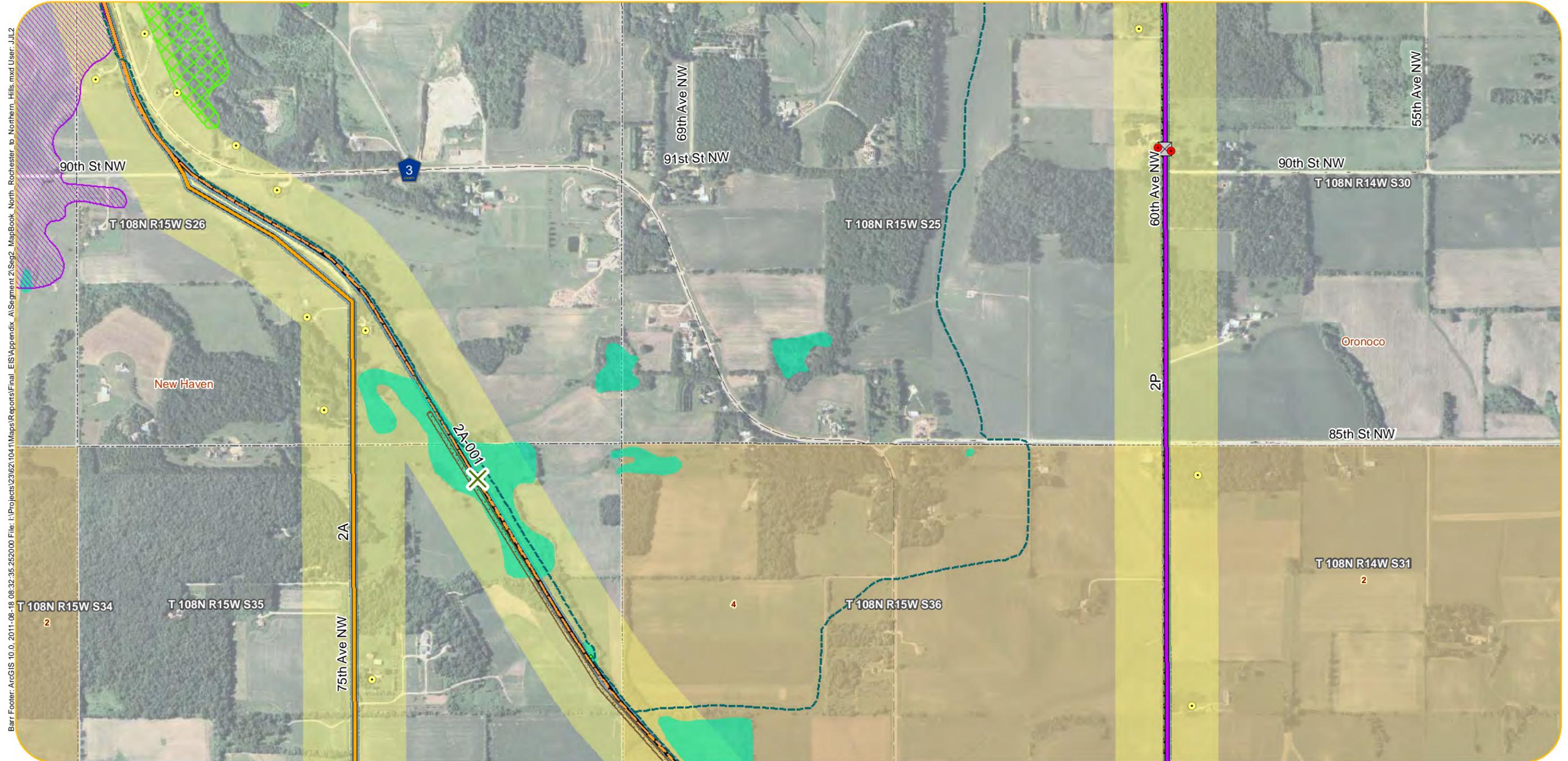
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| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |



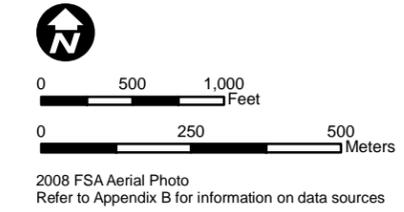
Appendix A - Sheet NH8
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



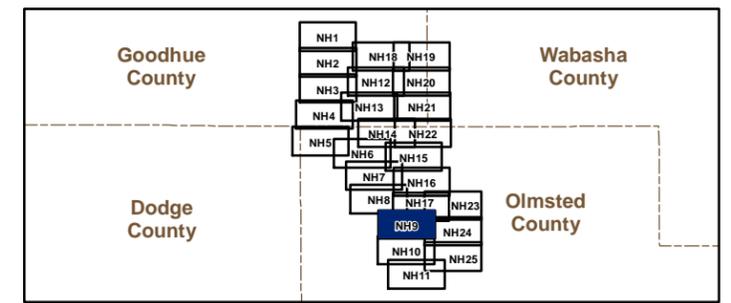
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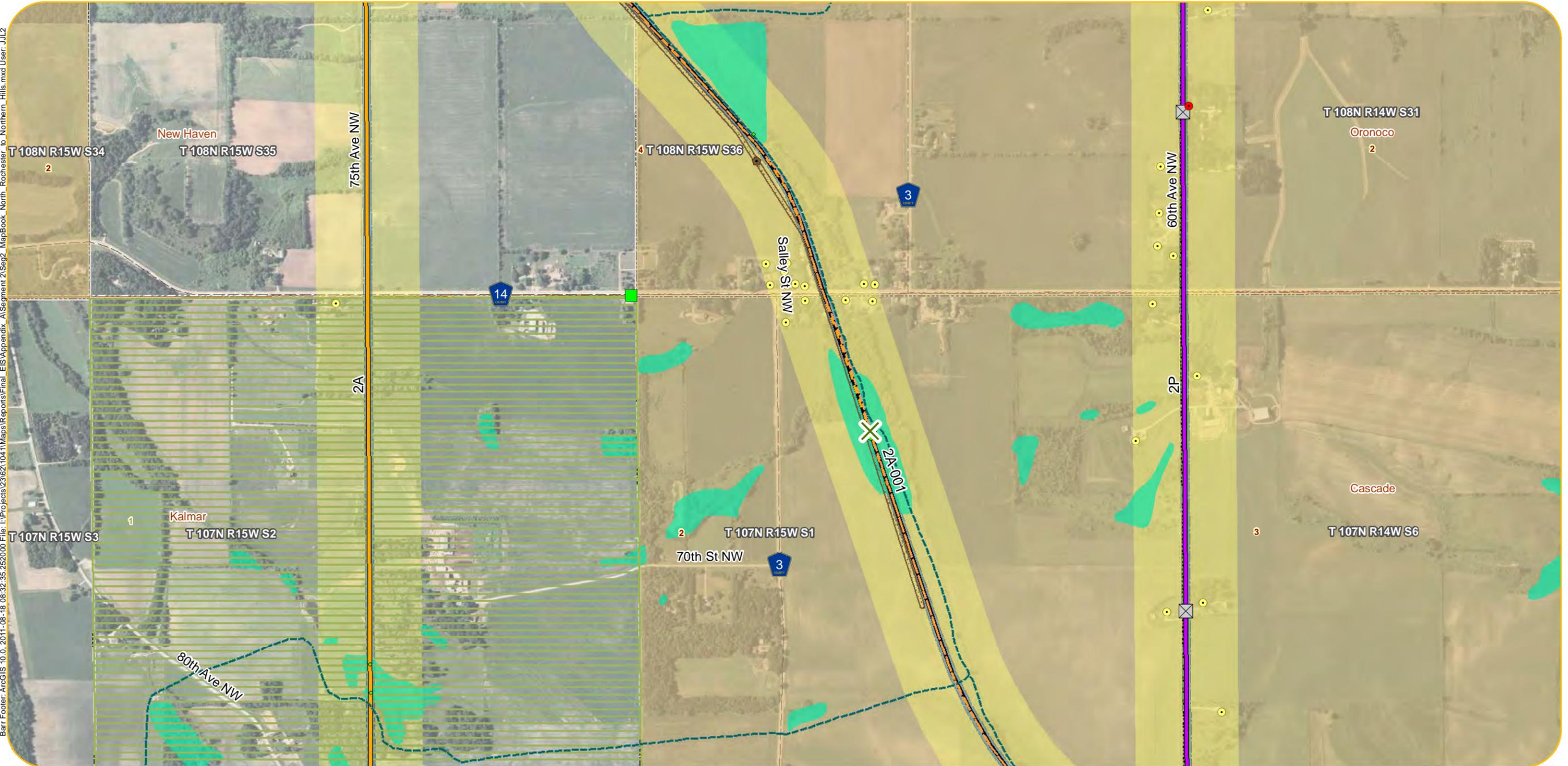
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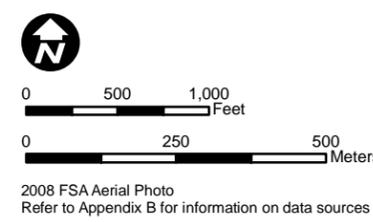
Appendix A - Sheet NH9
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



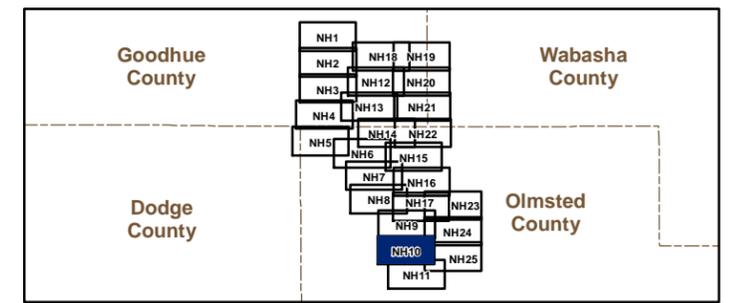
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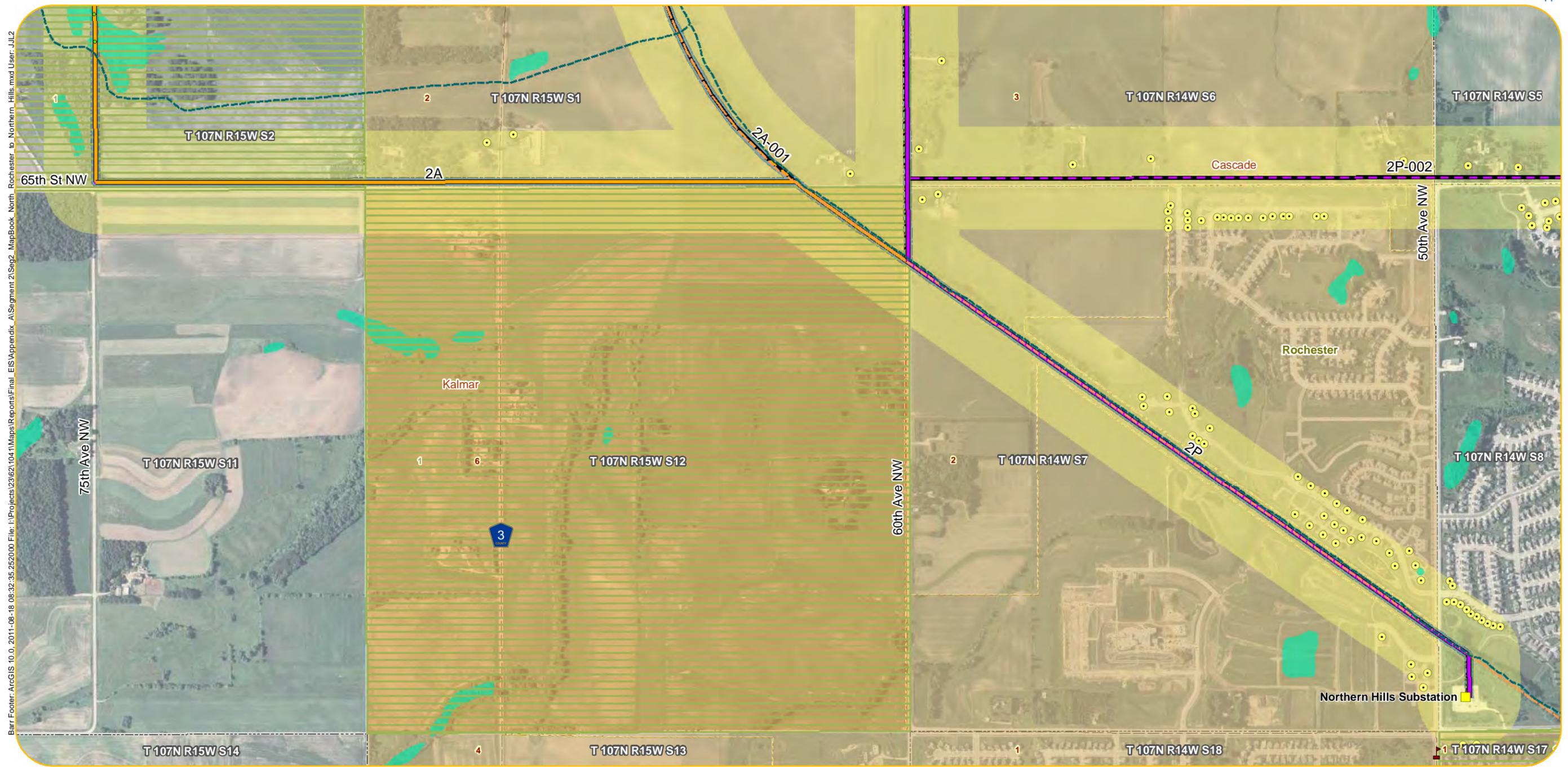
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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route <p>Additional Alternative Routes</p> <ul style="list-style-type: none"> Variation on P Route Variation on A Route Variation on Both Parallel Alignment Alignment Alternatives 80-foot ROW 200-foot ROW 1,000-foot Route Width Municipalities Civil Townships Public Land Survey Sections | <p> Project Substations</p> <ul style="list-style-type: none"> Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Pivot Irrigation Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands 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 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 4 1 - 5 18 6 - 20 58 21 - 164 |
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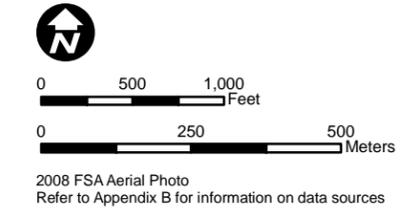
Appendix A - Sheet NH10
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



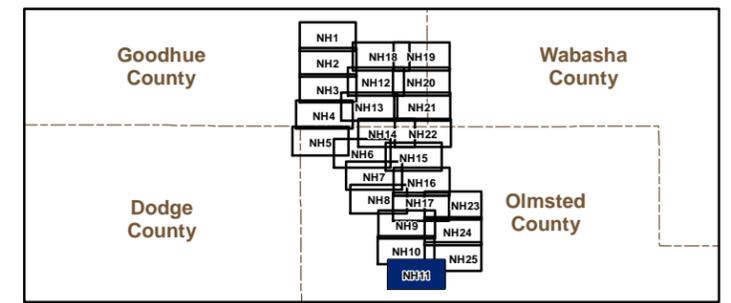
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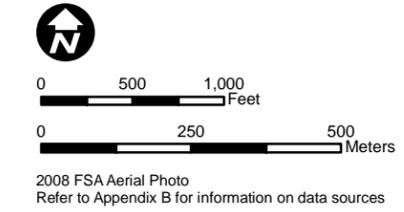
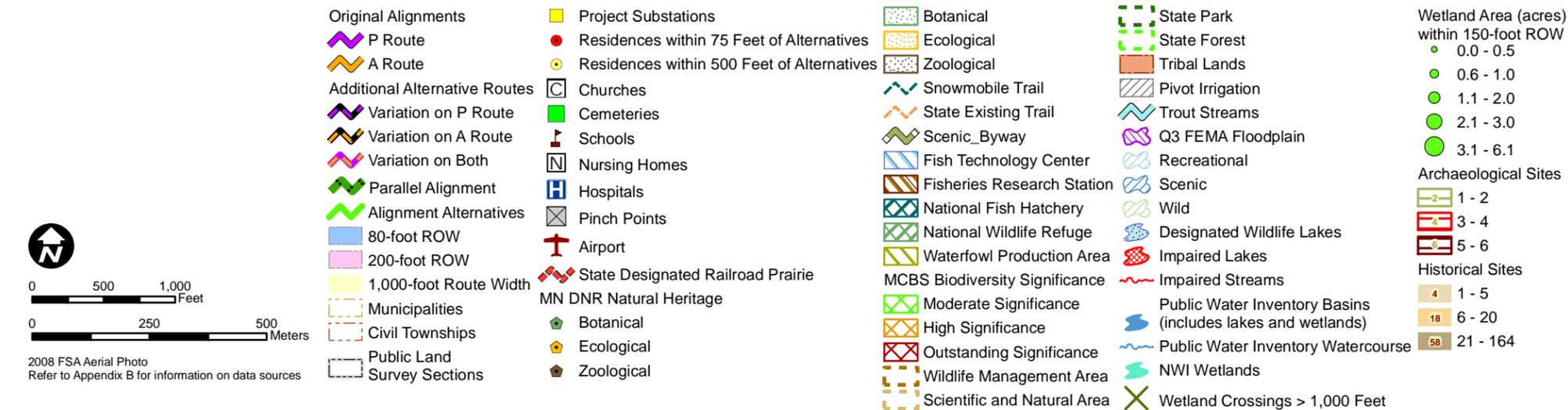
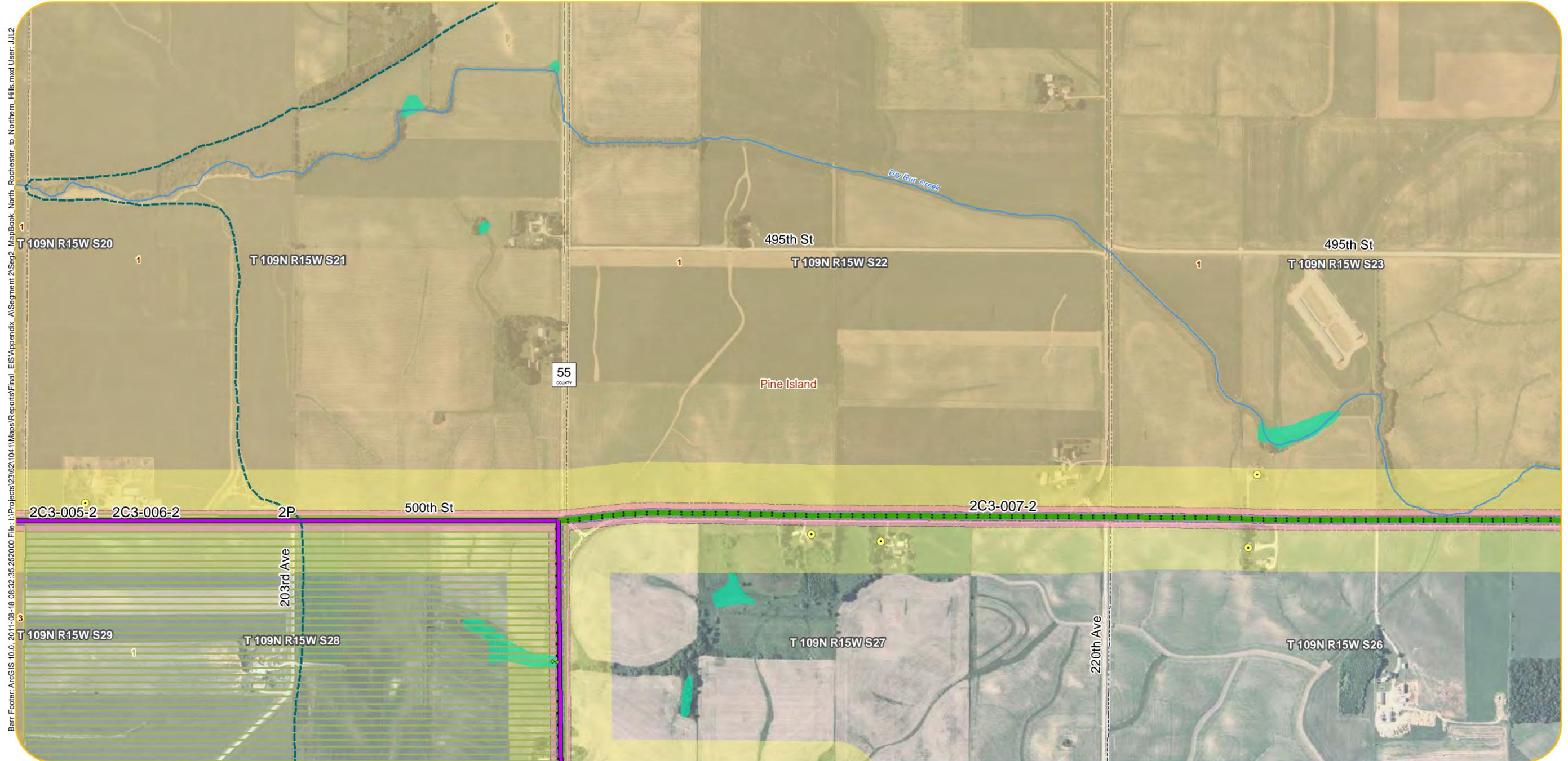
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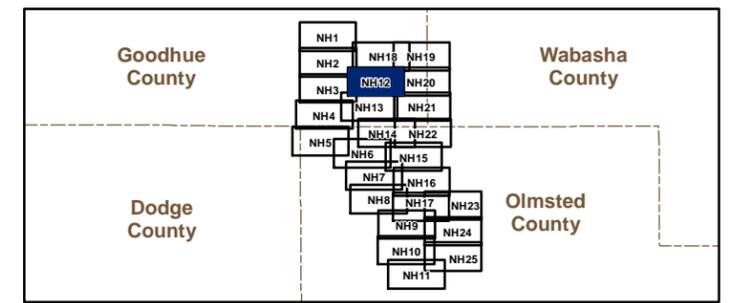
Appendix A - Sheet NH11
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



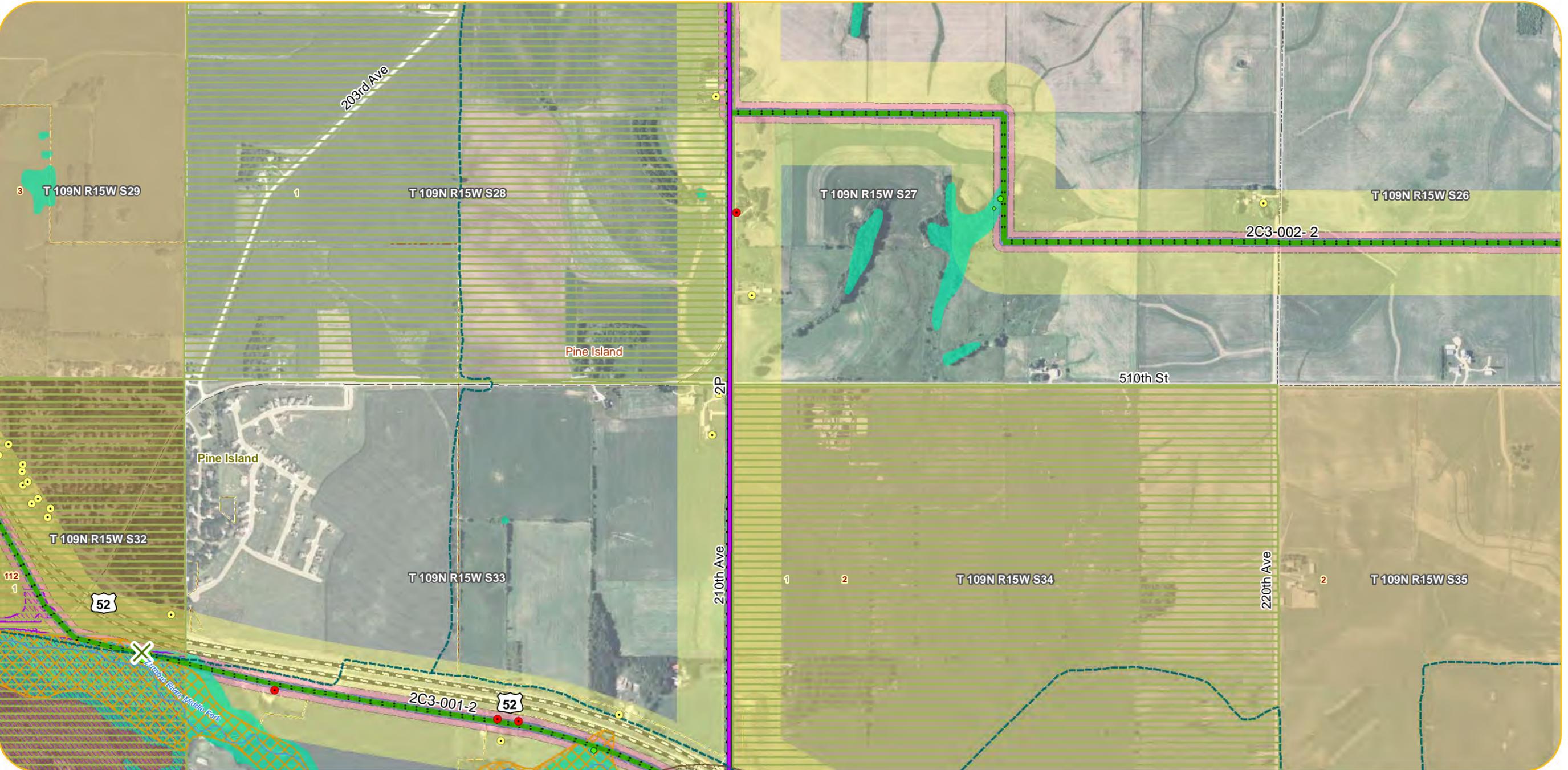
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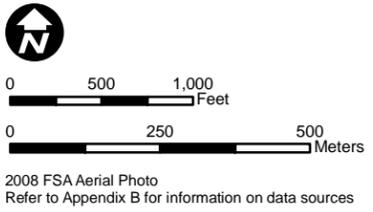
Appendix A - Sheet NH12
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



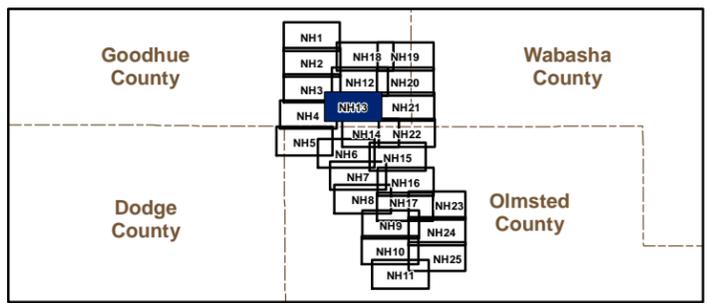
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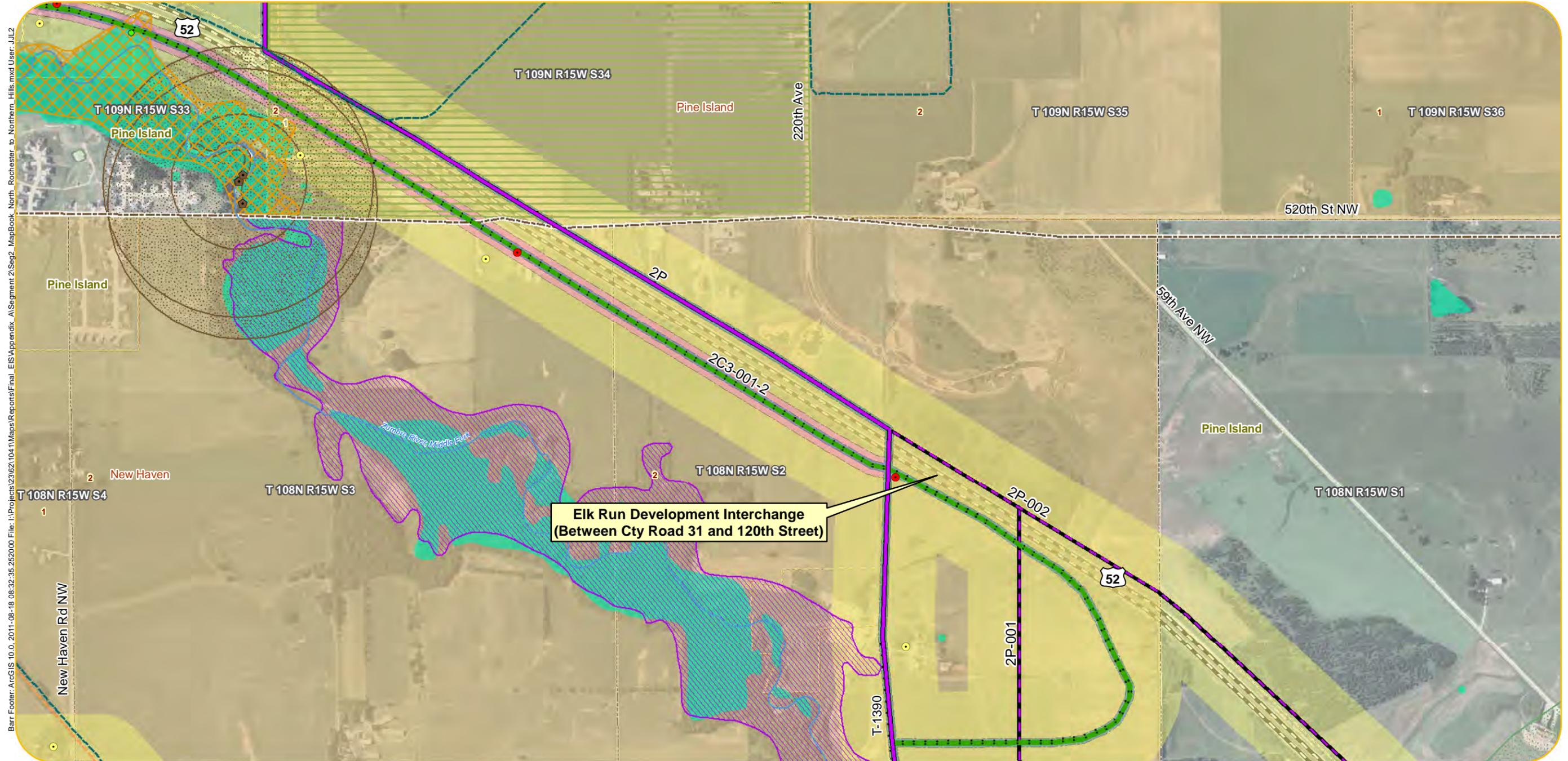


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| <ul style="list-style-type: none"> Original Alignments P Route A Route Additional Alternative Routes Variation on P Route Variation on A Route Variation on Both Parallel Alignment Alignment Alternatives 80-foot ROW 200-foot ROW 1,000-foot Route Width Municipalities Civil Townships Public Land Survey Sections | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Pivot Irrigation Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands 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 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 20 21 - 164 |
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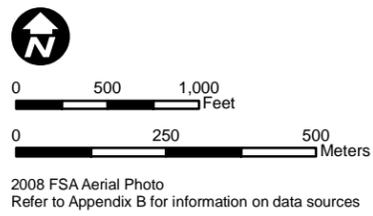
Appendix A - Sheet NH13
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



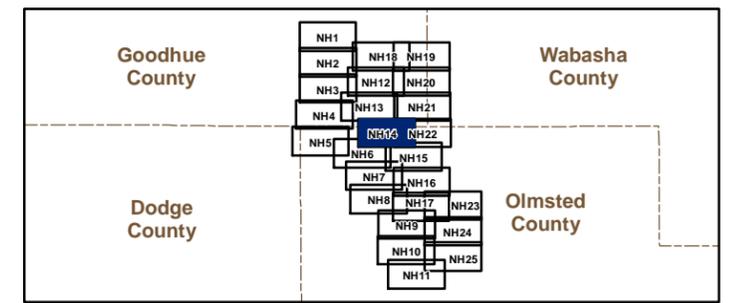


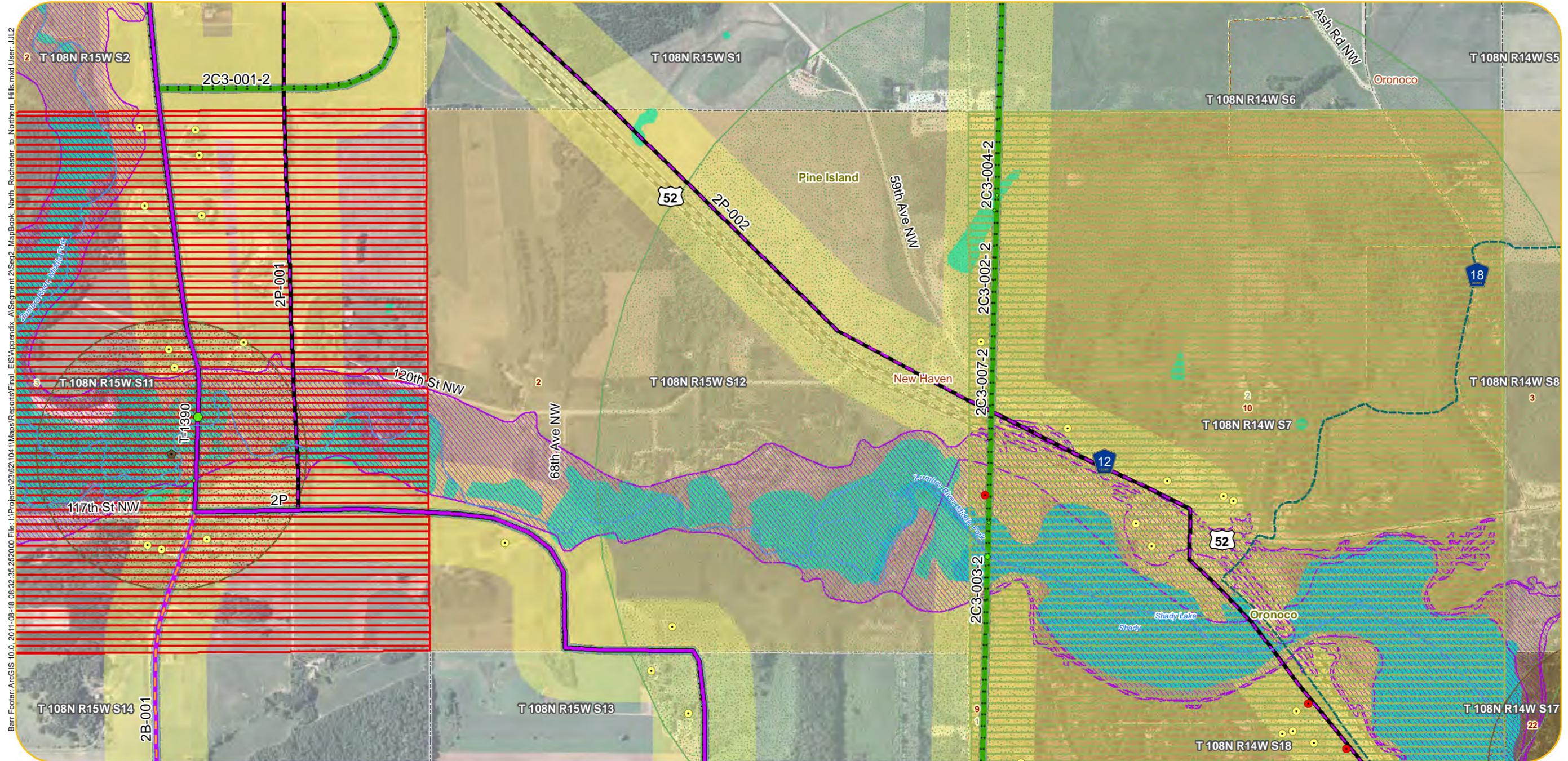
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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |



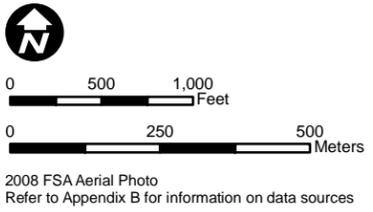
Appendix A - Sheet NH14
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



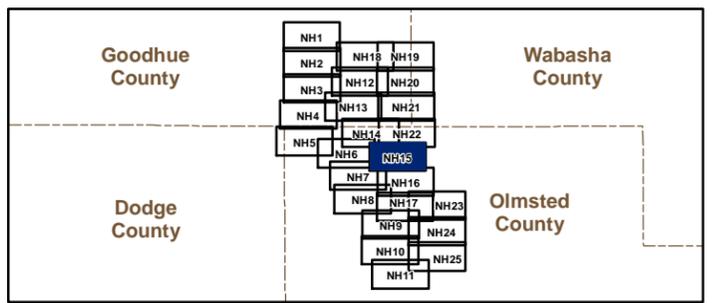


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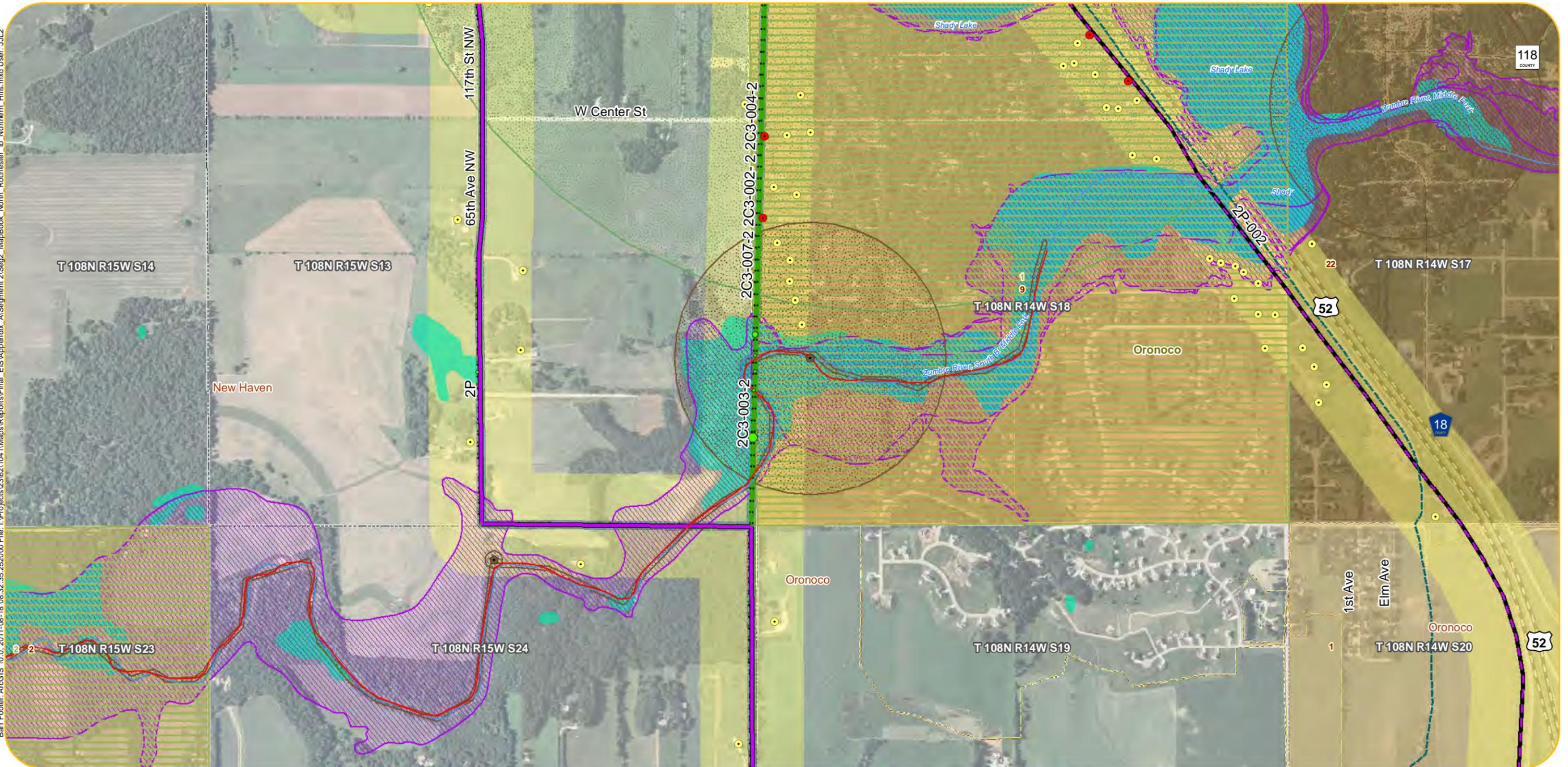
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| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |



Appendix A - Sheet NH15
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

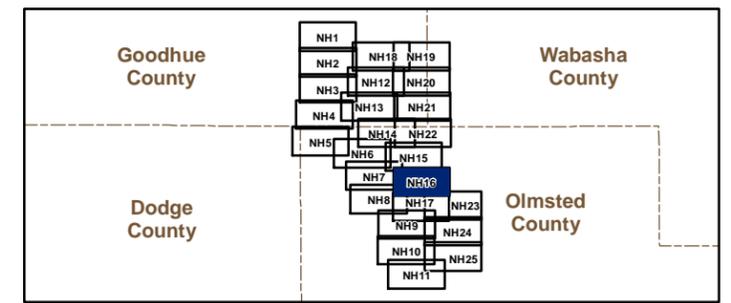


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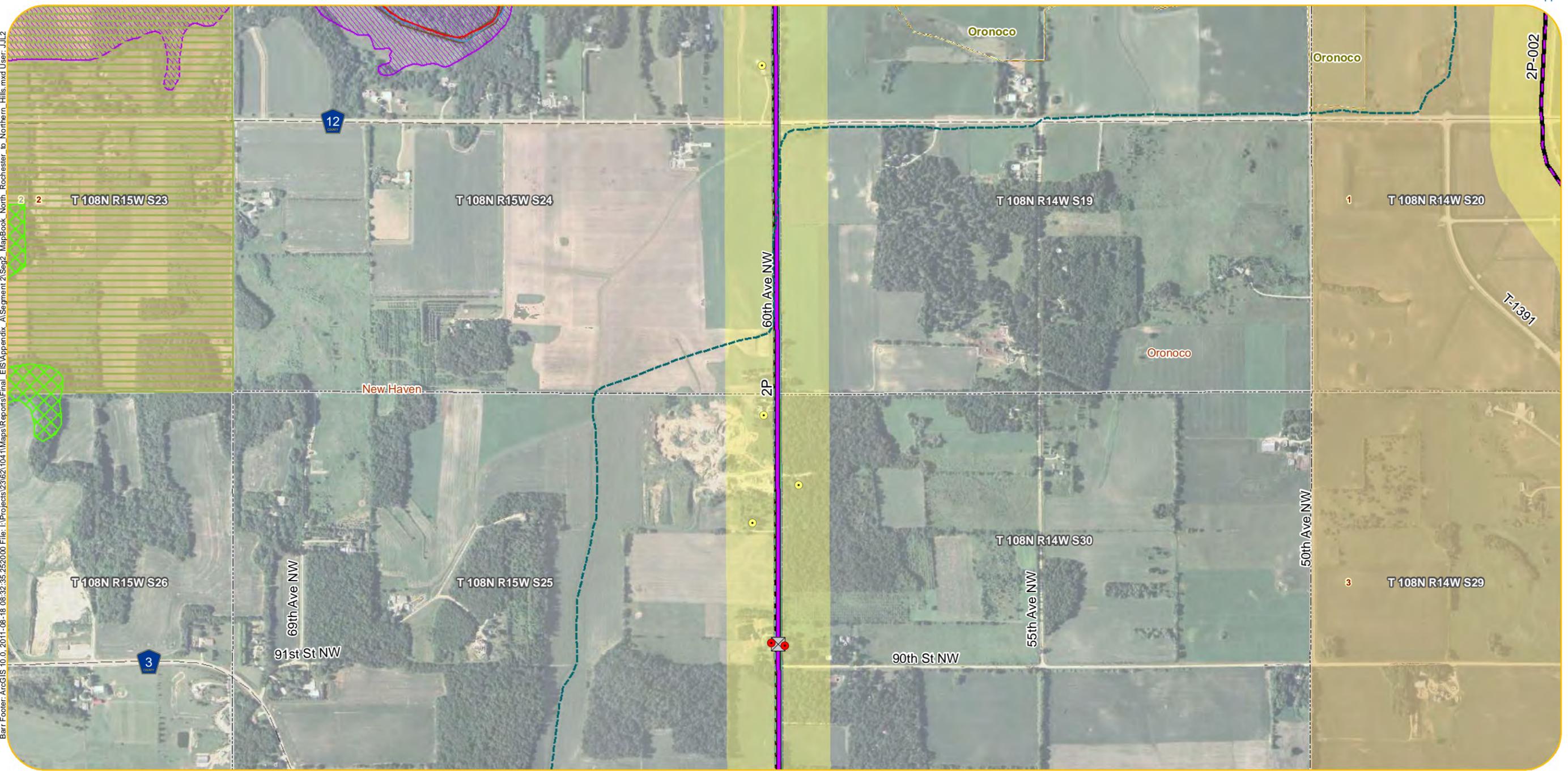


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| <ul style="list-style-type: none"> Original Alignments P Route A Route Additional Alternative Routes Variation on P Route Variation on A Route Variation on Both Parallel Alignment Alignment Alternatives 80-foot ROW 200-foot ROW 1,000-foot Route Width Municipalities Civil Townships Public Land Survey Sections | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Pivot Irrigation Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <ul style="list-style-type: none"> Wetland Area (acres) within 150-foot ROW 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 Archaeological Sites 1 - 2 3 - 4 5 - 6 Historical Sites 1 - 5 6 - 20 21 - 164 |
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Appendix A - Sheet NH16
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

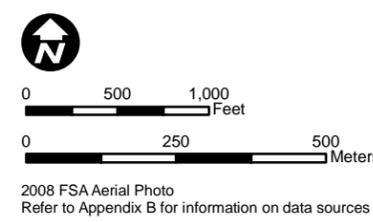
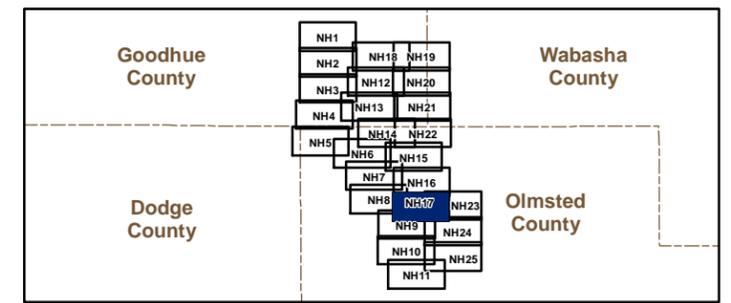


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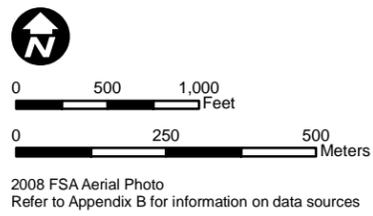


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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |

Appendix A - Sheet NH17
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

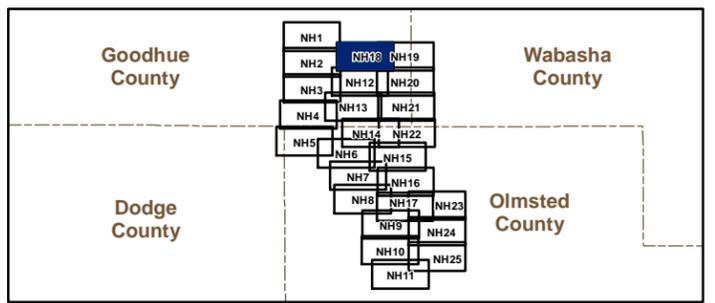


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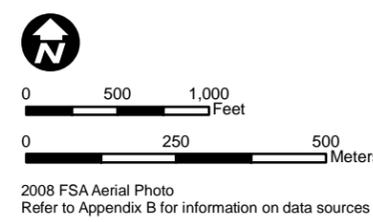
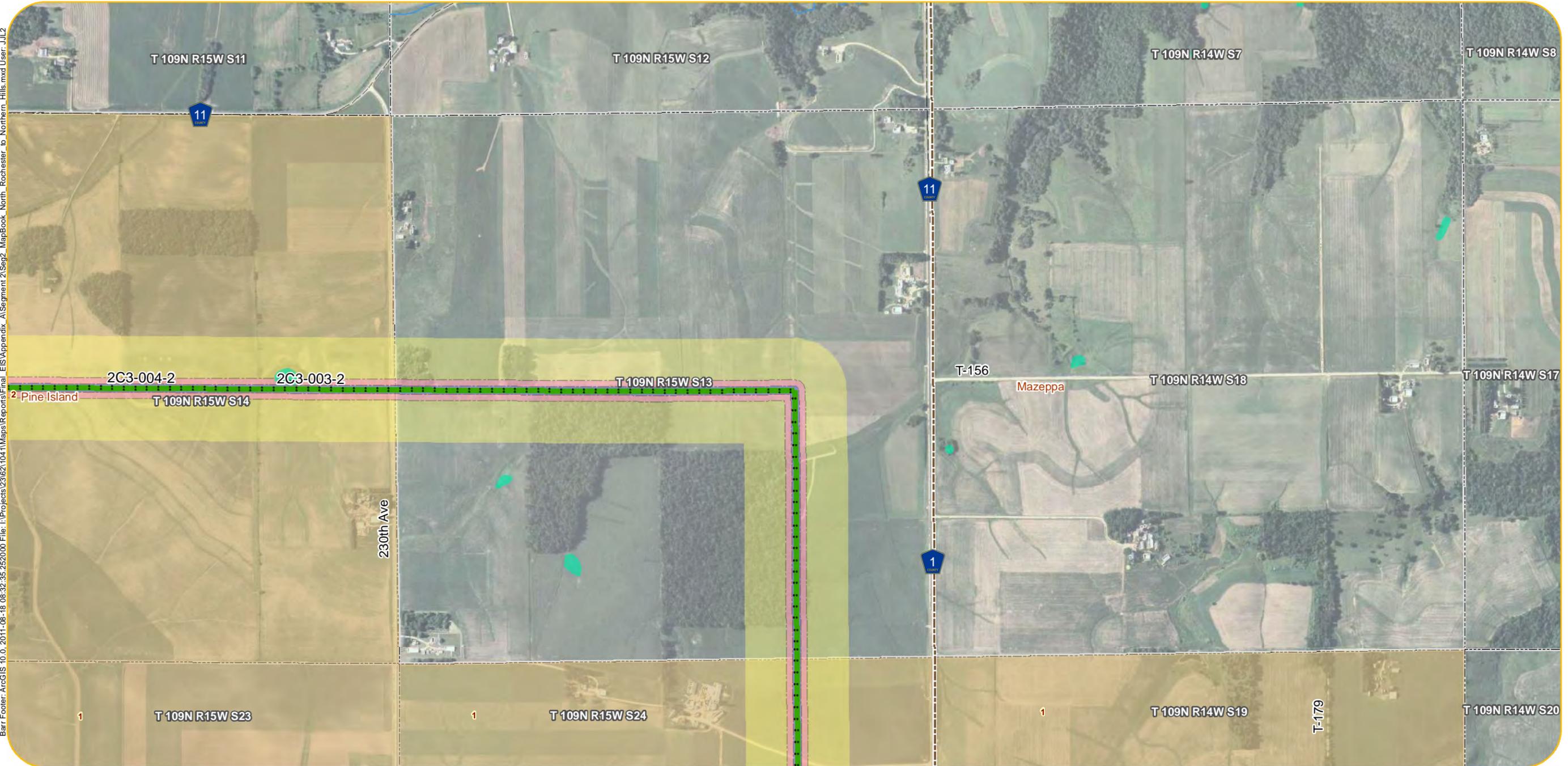


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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |

Appendix A - Sheet NH18
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

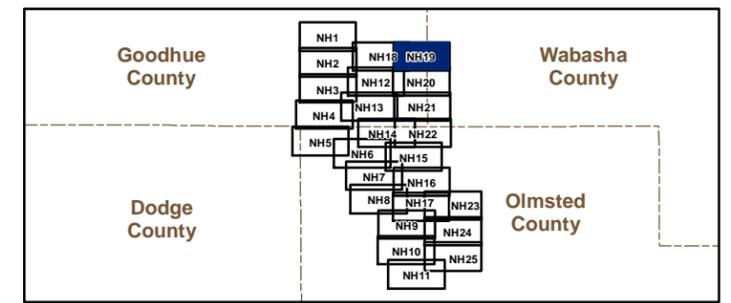


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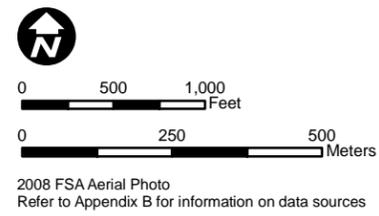
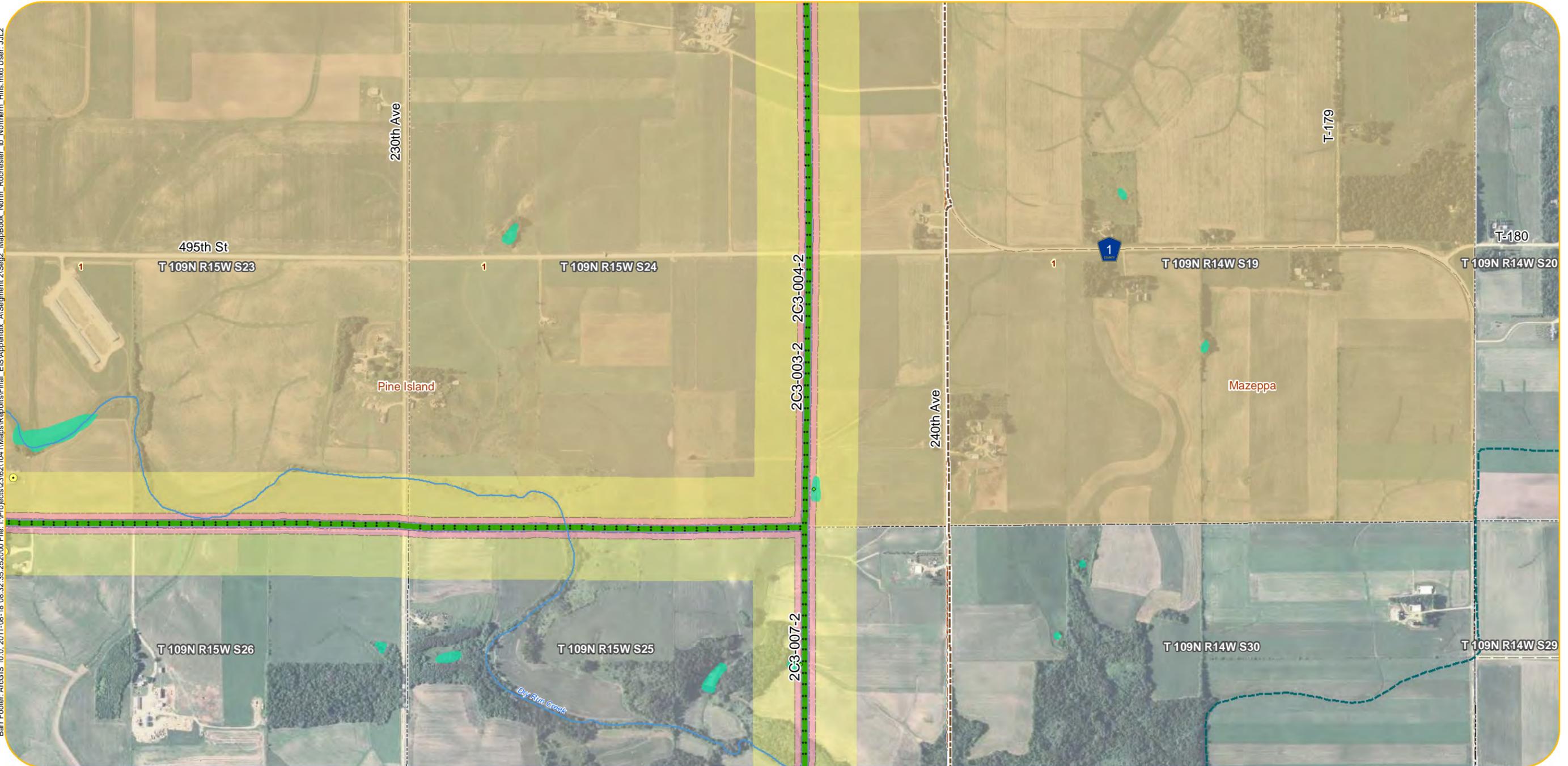


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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |

Appendix A - Sheet NH19
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

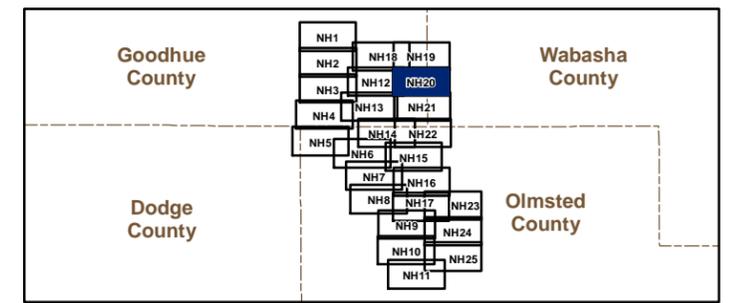


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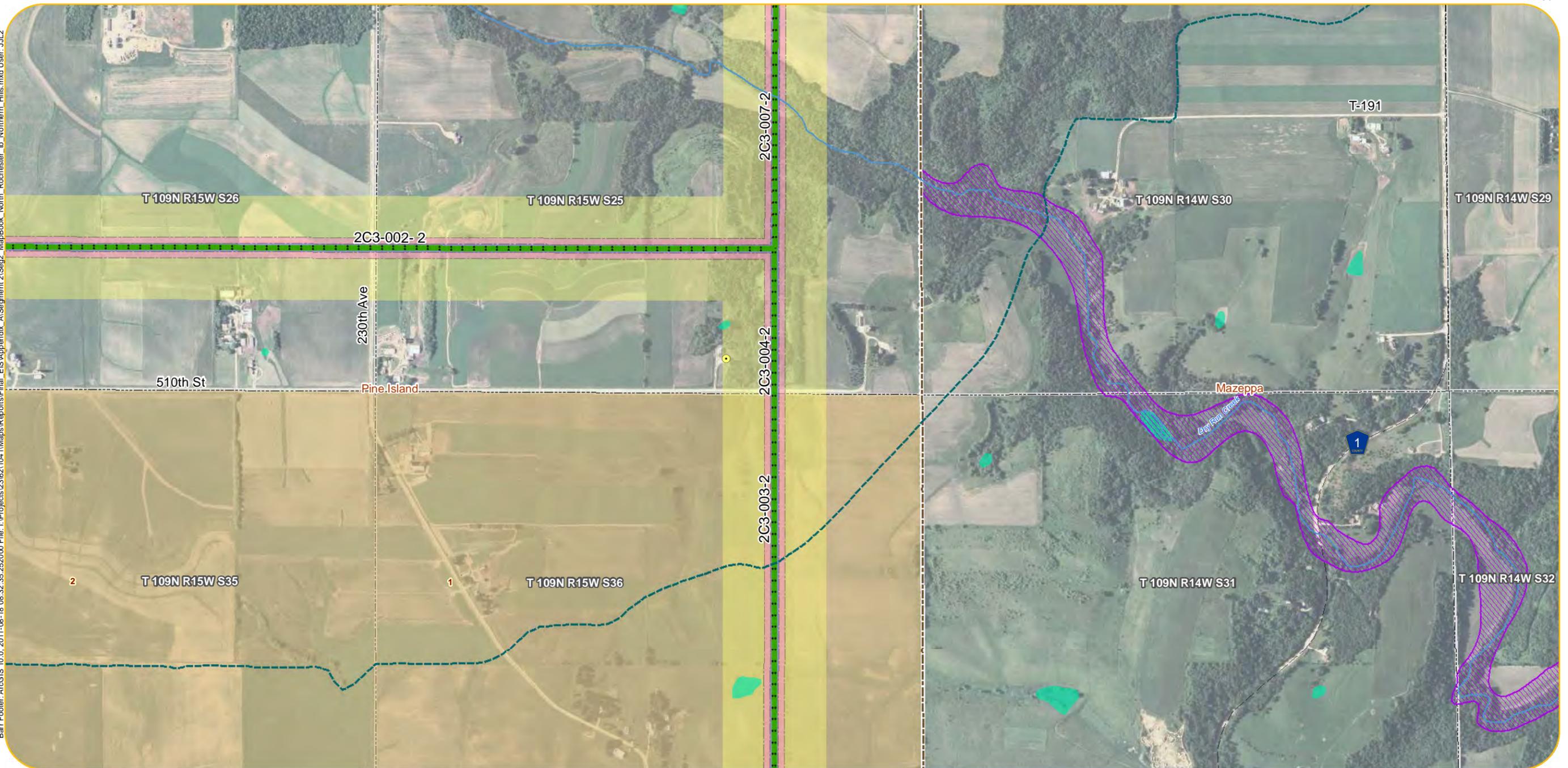


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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |

Appendix A - Sheet NH20
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

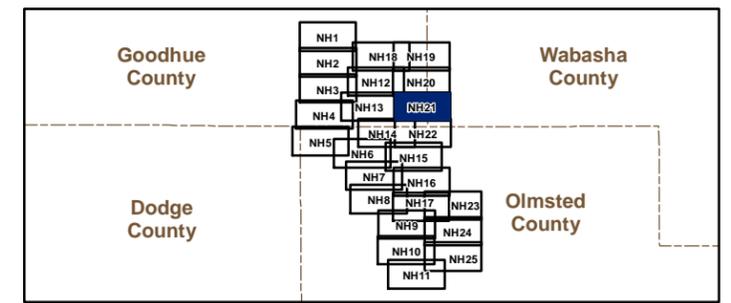


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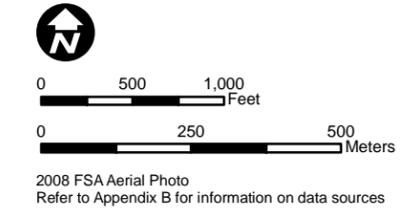
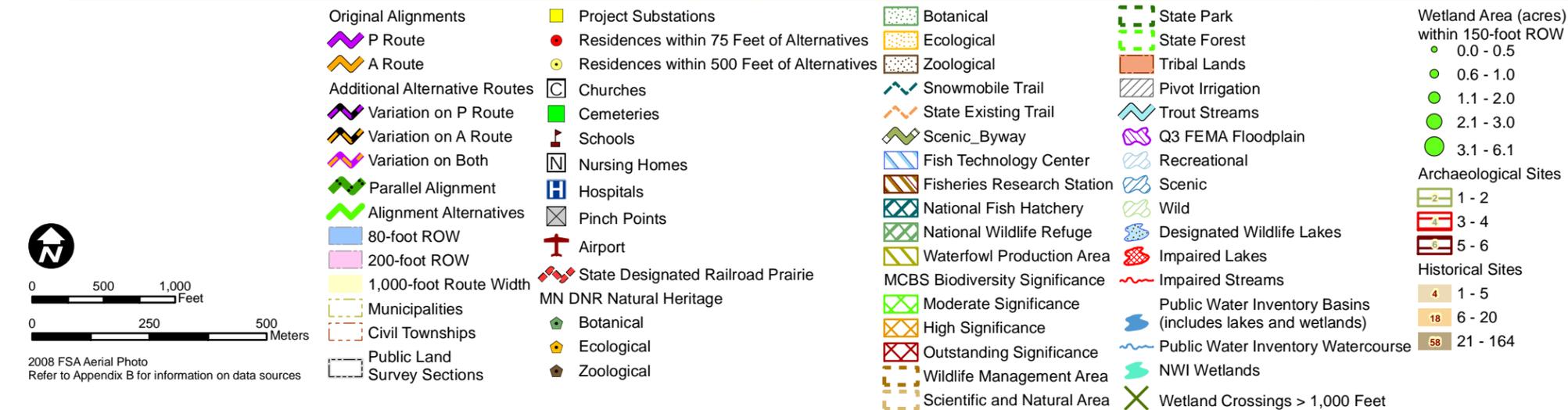
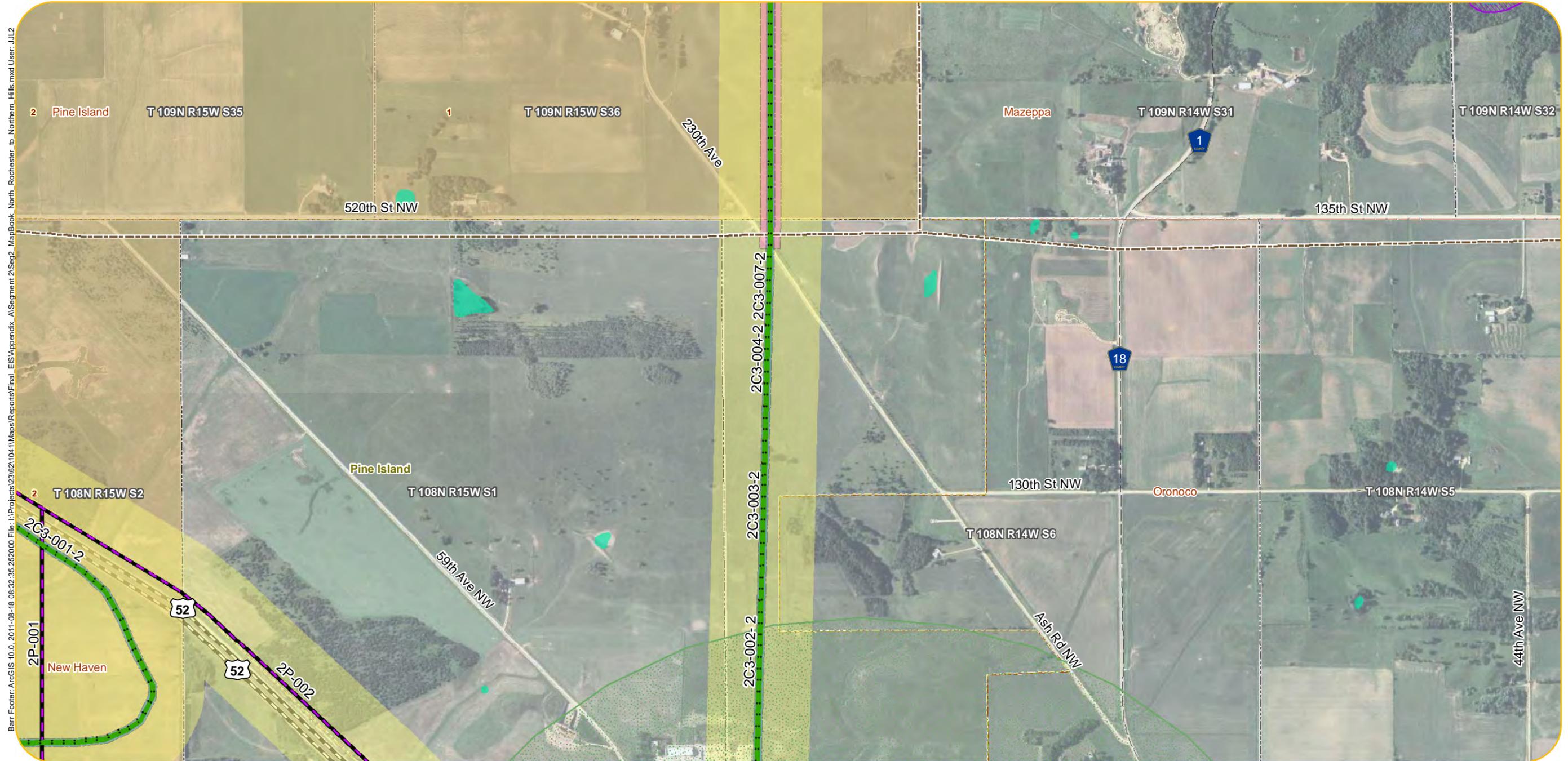


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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |

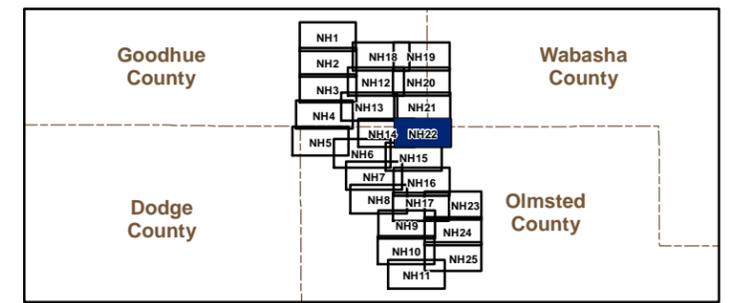
Appendix A - Sheet NH21
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



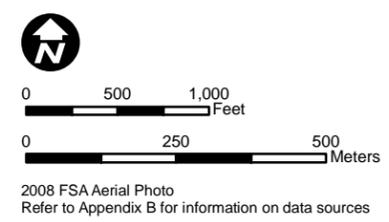
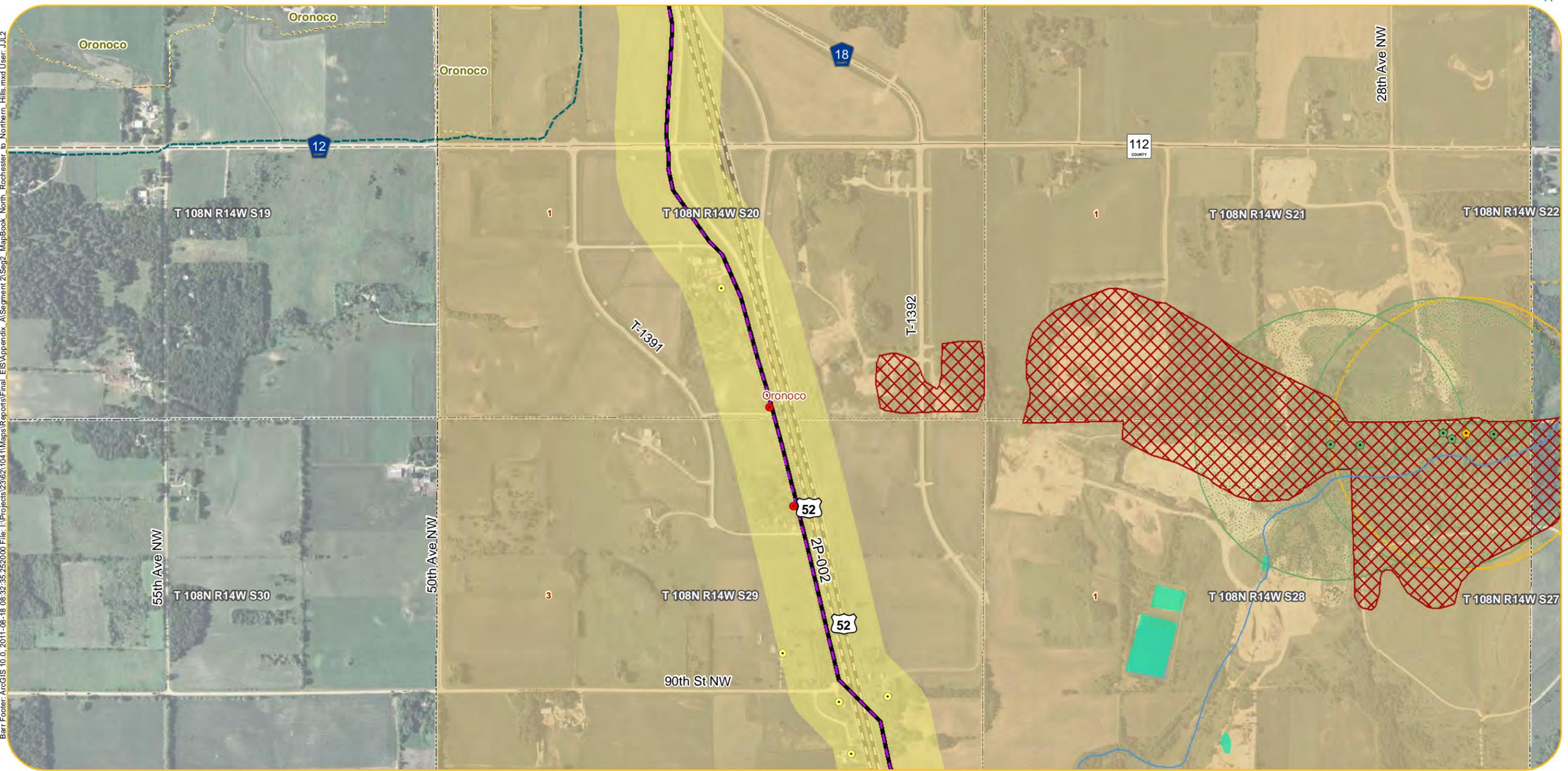
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Appendix A - Sheet NH22
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

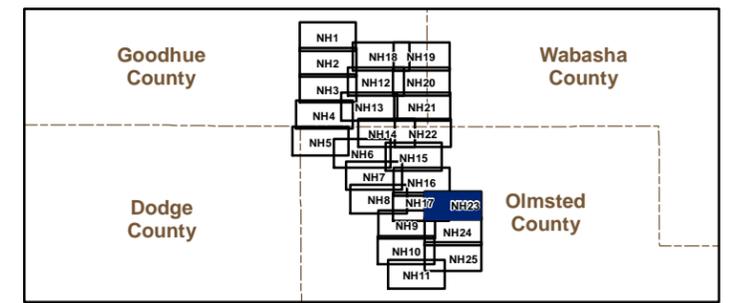


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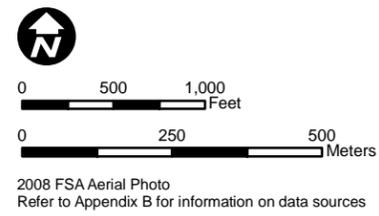
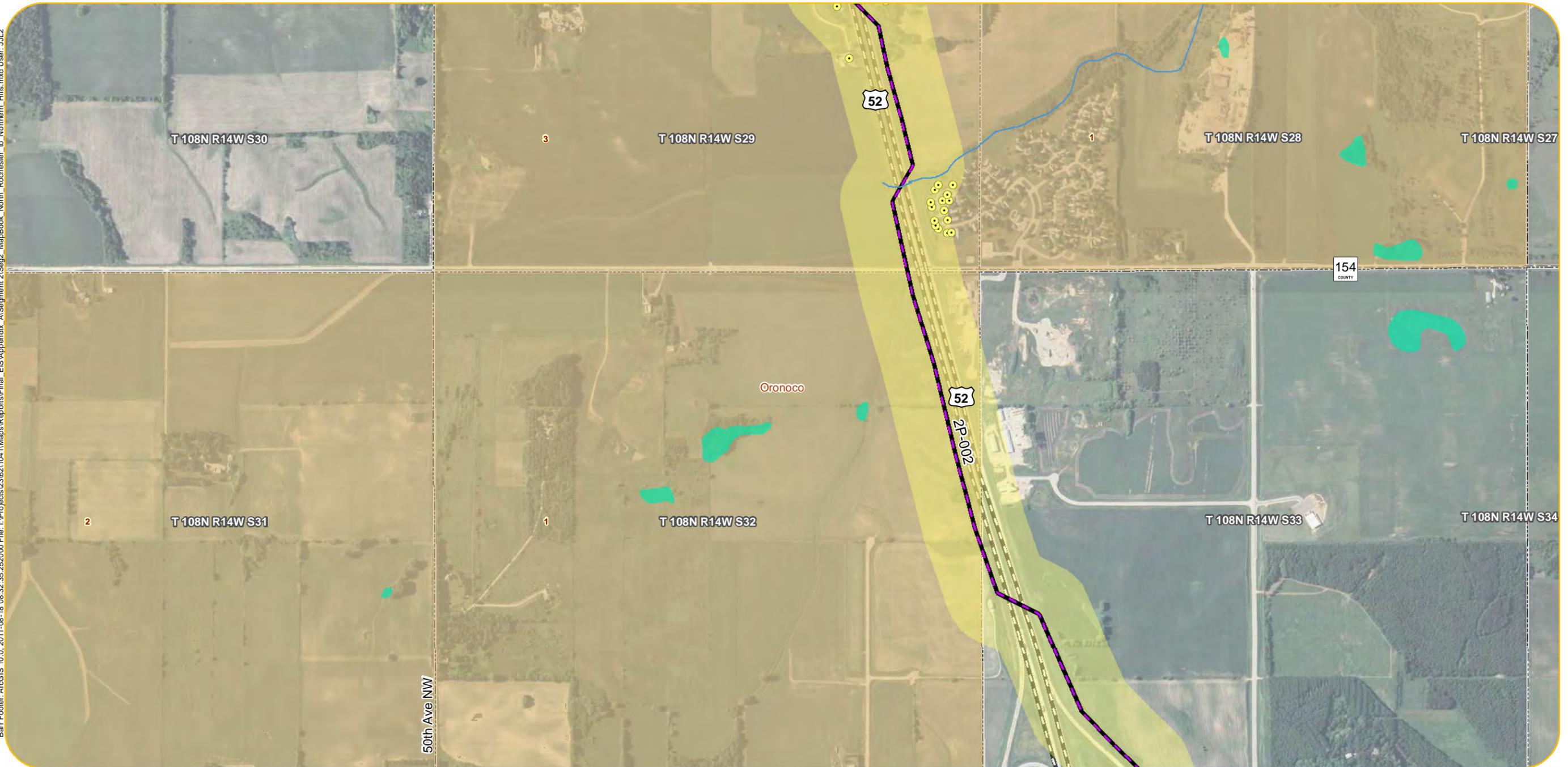


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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |

Appendix A - Sheet NH23
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

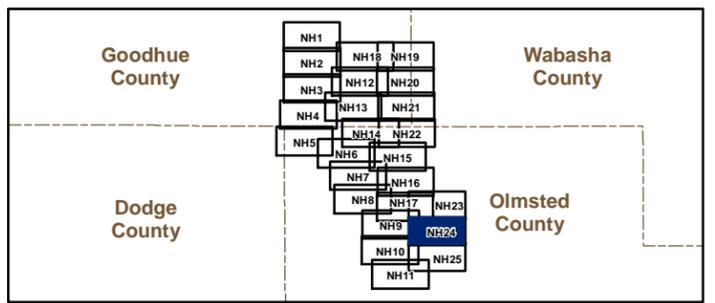


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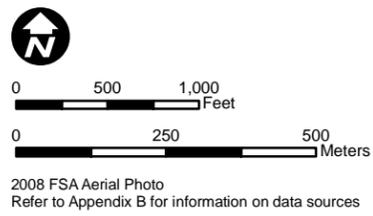
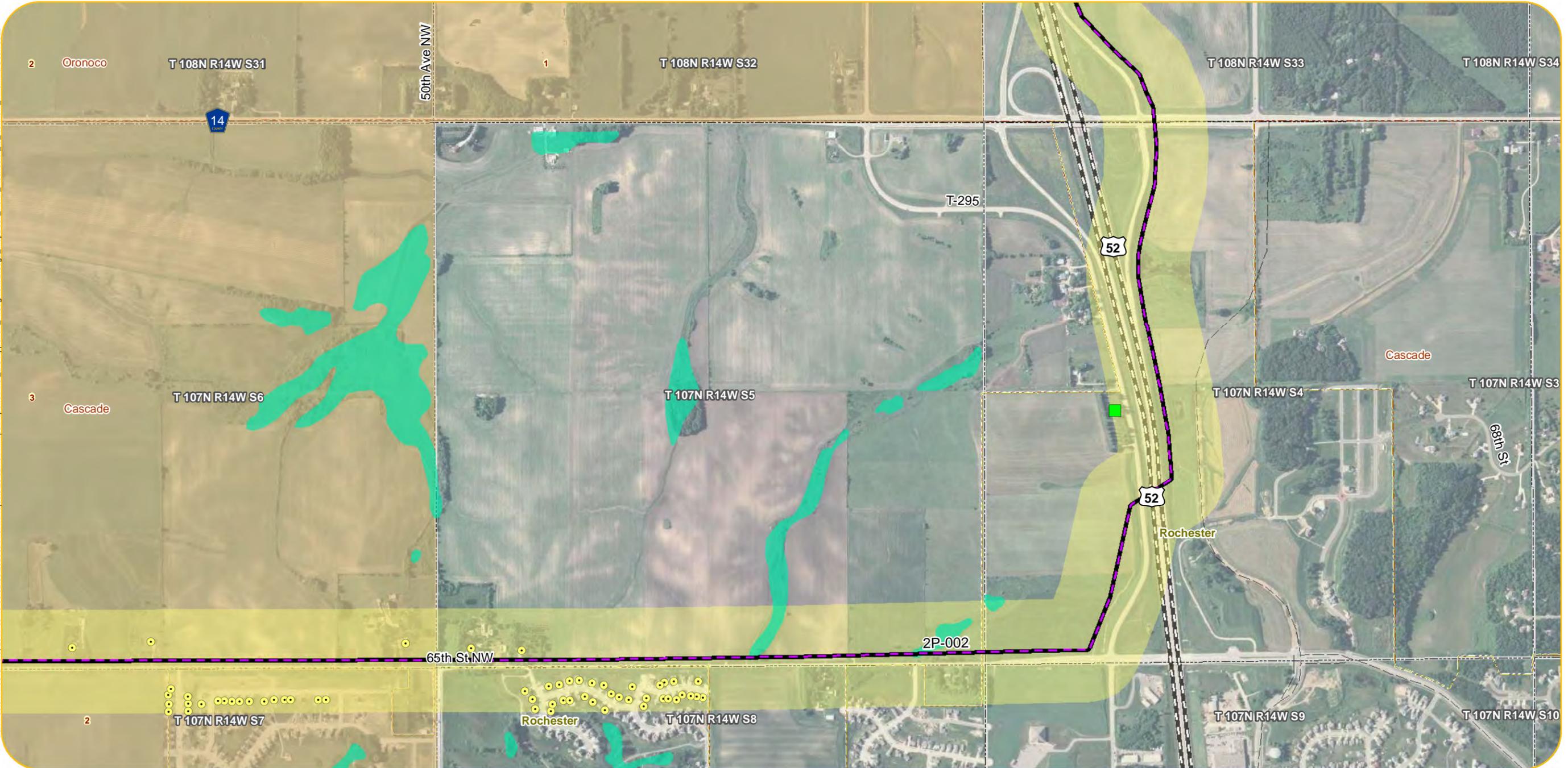


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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |

Appendix A - Sheet NH24
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

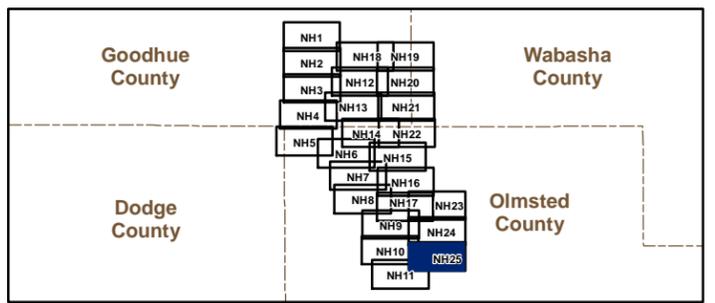


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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Pivot Irrigation | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Trout Streams | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Q3 FEMA Floodplain | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Recreational | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Scenic | 1 - 2 |
| Alignment Alternatives | Pinch Points | National Fish Hatchery | Wild | 3 - 4 |
| 80-foot ROW | Airport | National Wildlife Refuge | Designated Wildlife Lakes | 5 - 6 |
| 200-foot ROW | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Lakes | Historical Sites |
| 1,000-foot Route Width | MN DNR Natural Heritage | MCBS Biodiversity Significance | Impaired Streams | 4 1 - 5 |
| Municipalities | Botanical | Moderate Significance | Public Water Inventory Basins (includes lakes and wetlands) | 18 6 - 20 |
| Civil Townships | Ecological | High Significance | Public Water Inventory Watercourse | 58 21 - 164 |
| Public Land | Zoological | Outstanding Significance | NWI Wetlands | |
| Survey Sections | | Wildlife Management Area | Wetland Crossings > 1,000 Feet | |
| | | Scientific and Natural Area | | |

Appendix A - Sheet NH25
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



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