NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines

Map Index

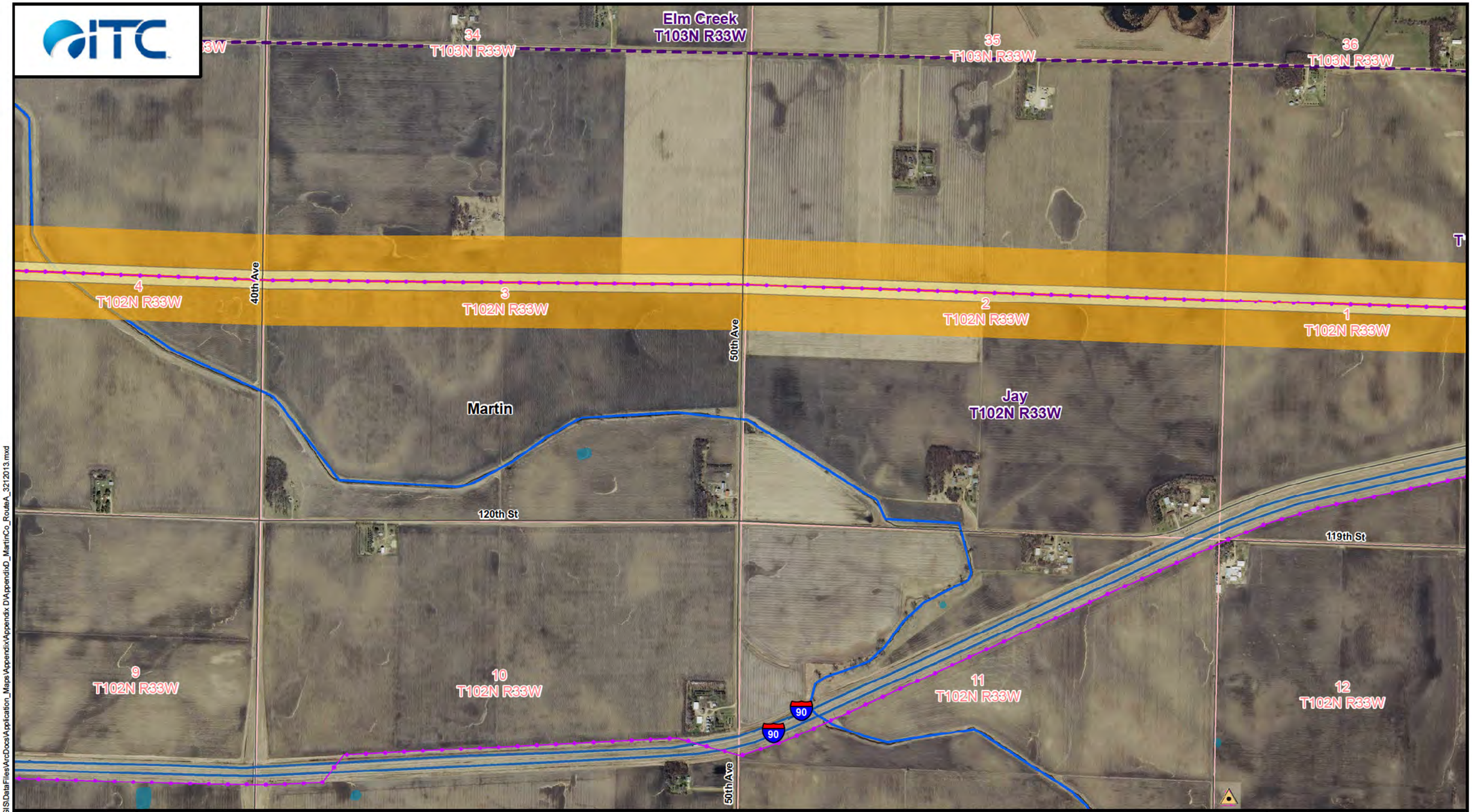
Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 1 of 13

R:\ITC\66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013



NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines

Map Index

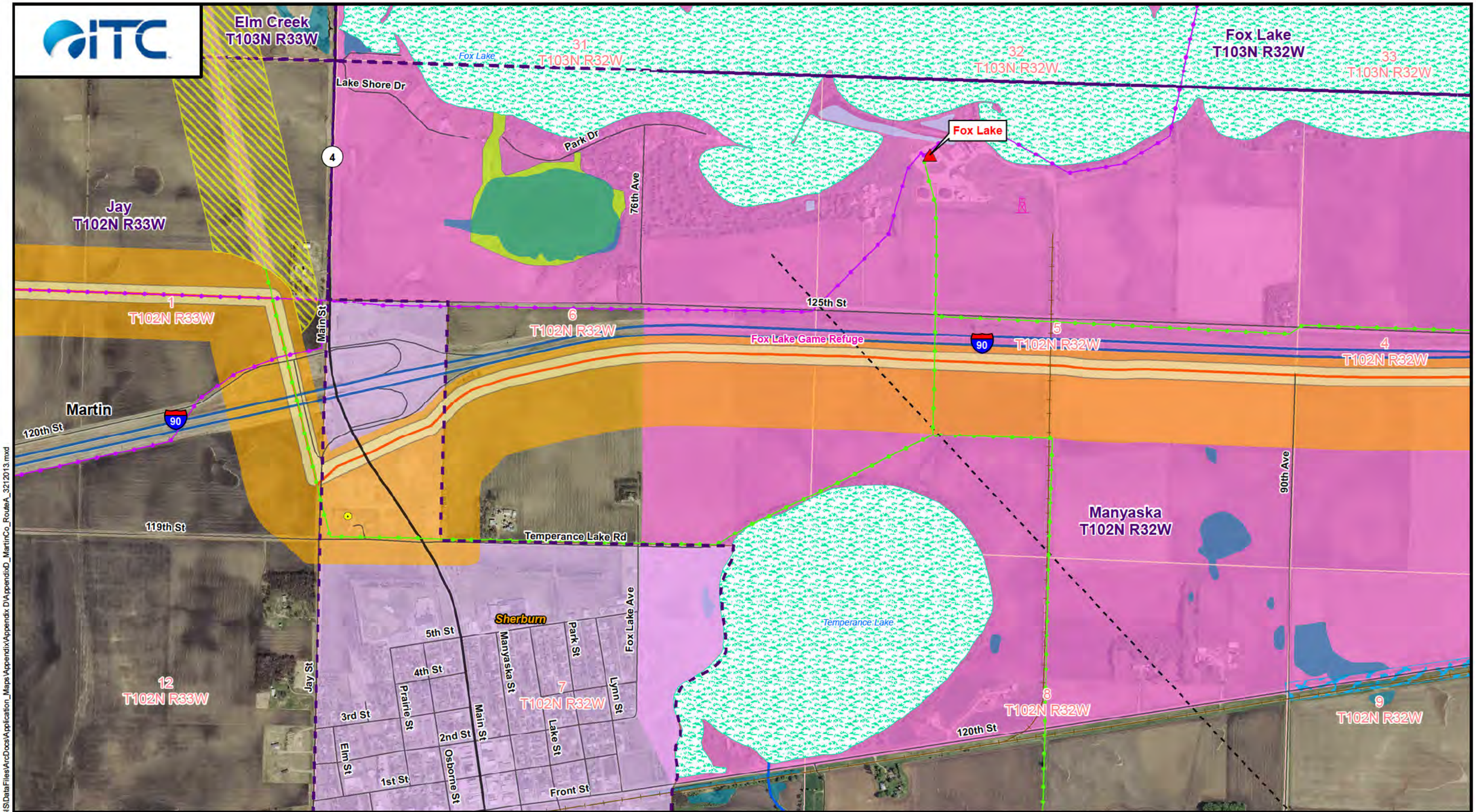
Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 2 of 13

R:\ITC\66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013



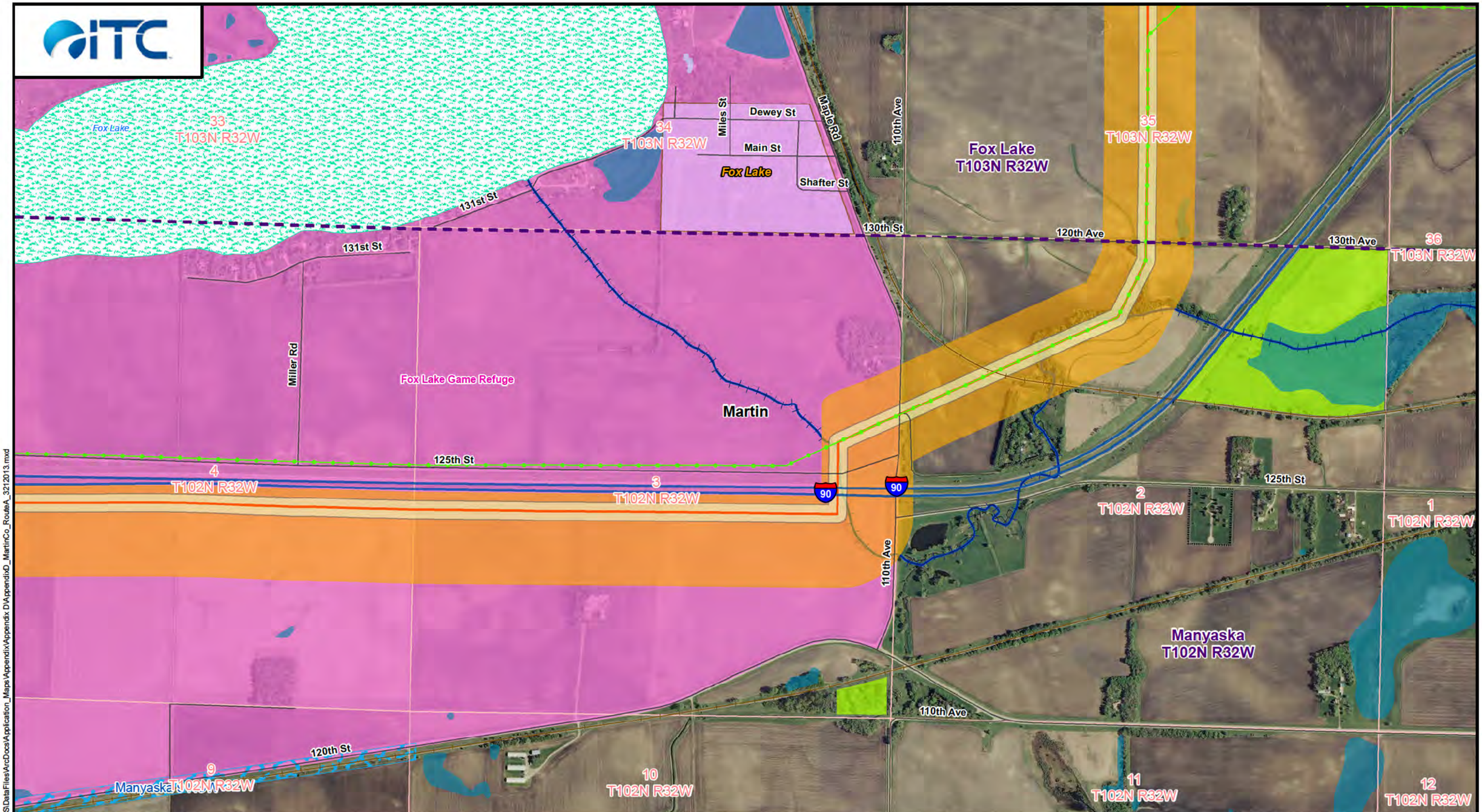
Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 3 of 13

R:\ITC66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013



NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines

Map Index

Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 4 of 13

R:\ITC\66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013

NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines

Map Index

Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 5 of 13

R:\ITC\66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

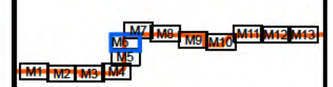
Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013

NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines



Map Index

Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 6 of 13

R:\ITC\66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013

NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines

Map Index

Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 7 of 13

R:\ITC\66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

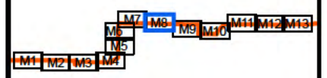
Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013

NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines



Map Index

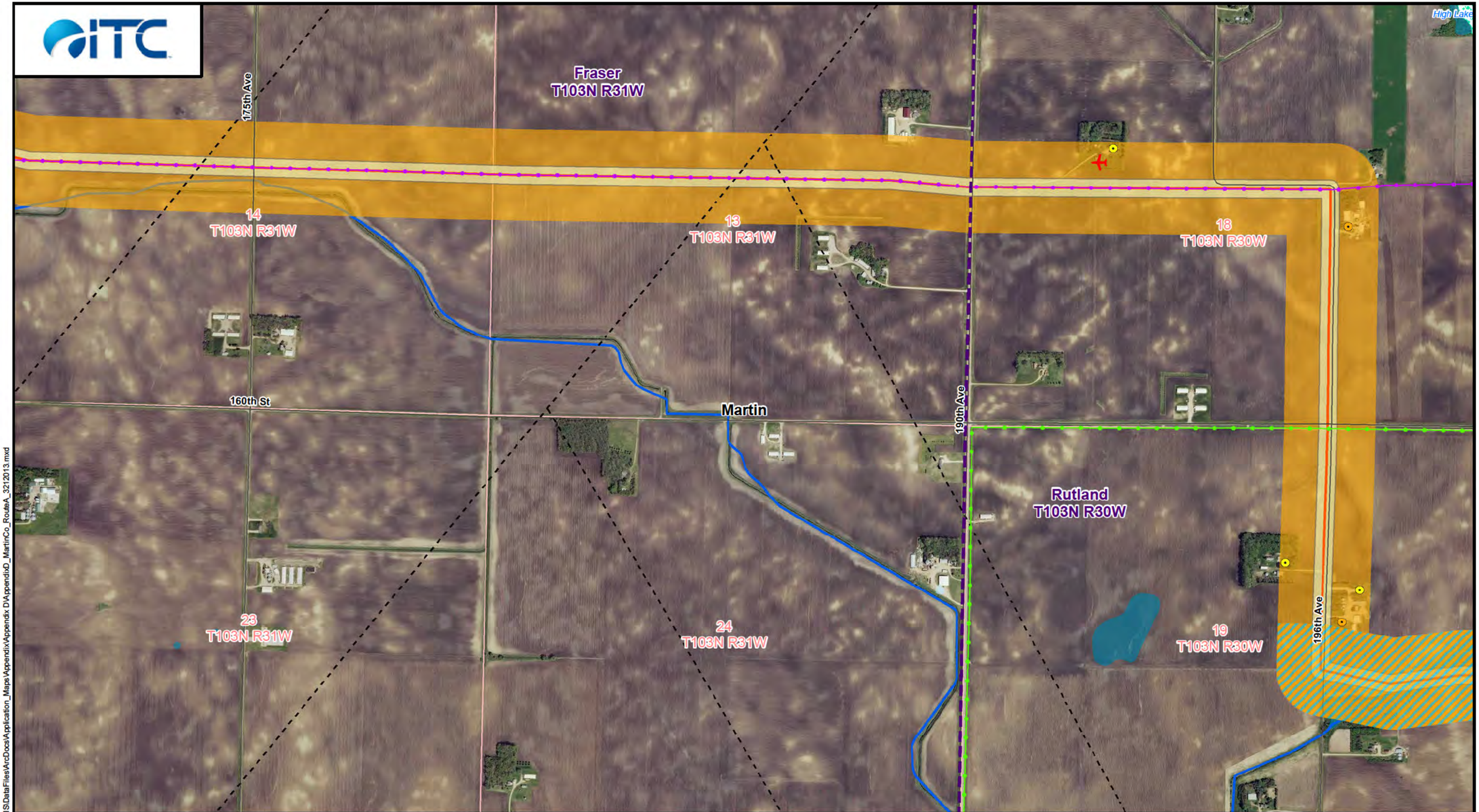
Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 8 of 13

R:\ITC\66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

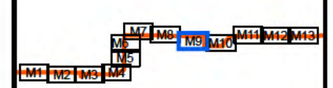
March 22, 2013



NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines



Map Index

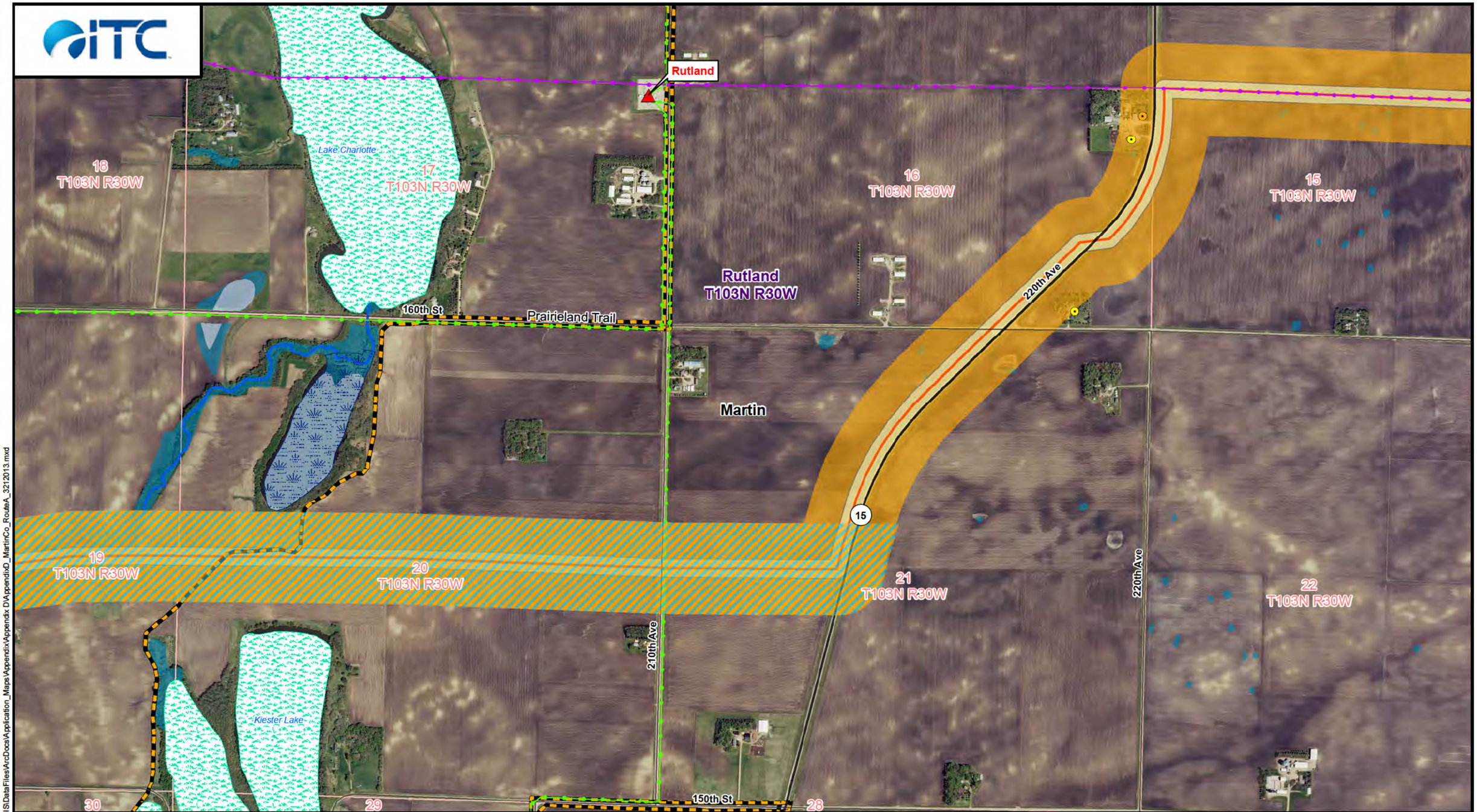
Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 9 of 13

R:\ITC66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013



NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines

Map Index

Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 10 of 13

R:\ITC\66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

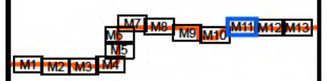
Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013

NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines



Map Index

Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 11 of 13

R:\ITC\66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

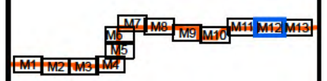
Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013

NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines



Map Index

Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 12 of 13

R:\ITC\66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013

NORTH

0 500 1,000
Feet

Proposed Substation/Expansion
Existing Substation Area
Substation to be Removed
Route A - Application Alignment
Route A - Application ROW
Route A
Connector Segment - ROW
Connector Segment
Route A and B Combined Segment
Associated Facilities
Existing 69 kV Lines
Existing 161 kV Lines
Existing 345 kV Lines
Line to be Removed
Civil Township
Township Sections
City
County Boundary
State Boundary
State Park or WMA
State Game Refuge
WPA
WRP
Below
Moderate
High
Outstanding
NWI Wetlands
PWI Water Basin
PWI Water Wetland
PWI Stream
Impaired Stream
Existing Pipeline
Railroad
ARMER Tower
Home 0-75ft
Home 75-150ft
Home 150-300ft
Home 300-500ft
Church
Cemetery
Airports
Snowmobile Trail
Aggregate Source
Private Landing Strip
FCC Telecom Tower
Wind Turbines

Map Index

Appendix D
ITC Midwest
Minnesota-Iowa
345 kV Transmission Project

Proposed Route A
Martin County
Sheet 13 of 13

R:\ITC\66742_HUNTLEY_LAKEFIELD\GIS\DataFiles\ArcDocs\Application_Maps\Appendix\Appendix D\AppendixD_MartinCo_RouteA_3212013.mxd

Source: MN Geo 2011 Aerials; USFWS NWI Wetlands; National Hydrography Dataset; National Flight Data Center; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

March 22, 2013