Appendix B: Design Option Aerial Mapsheets (1”=400’), Cross-Sections, and Photo-Simulations

B.1: No ROW Expansion Option

B.2: 11-Acre ROW Expansion Option

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Appendix B.1: No ROW Expansion Option

Note: This page intentionally left blank

Nipmuck Trail, East Branch (Blue Dot Trail)

Joshua's Tract Conservation and Historic Land Trust, Inc. (Wildlife Area)

Mansfield Hollow Wildlife Management Area

Connecticut Natural Diversity Data Base Area

Mansfield Hollow Lake

Existing 150-foot-Wide ROW, No ROW Expansion. All Existing Structures to be Removed and Rebuilt.

Flood Control Levee Trail

Mansfield Hollow Park Trail / Red Trail

Mansfield Hollow State Park

MANSFIELD

RAR-90

W20-64

W20-63

W20-66

W20-65

FH

Town Open Space (Storrs and Bassetts Bridge Roads)

NU Property

Green Dragon Day Care

BASSETTS BRIDGE RD

HAWTHORNE LN

MANSFIELD HOLLOW RD EXT

Mansfield Hollow Dam Historic District

Match Line Maps 1 and 2 of 3 NRE

77 78 79 80 81 82 83 84 85 86 87 88

9076 9077 9078 9079 9081 9082 9083 9084 9085 9086

S20-19

Index Map

Right-of-Way (Existing)
Proposed 345-kV Line (Centerline)
Existing Transmission Line (Centerline)
Existing Structure (9001)
Existing Structure (Guy Relocation)
Proposed Structure (1)
Connecticut Natural Diversity Data Base Area
Municipal/Private Park or Open Space
Property Line
Town/State Boundary
Potential Access Road
Northeast Utilities Property
Historic District
State Forest or Park
Wildlife Area or Sanctuary
100-Year Flood Zone
Wetland Boundary (W20-1)
Watercourse (S20-68)
R80 Zoning Designation

Land Use/Vegetative Cover Type

Emergent Wetland (PEM)
Forested Wetland (PFO)
Scrub - Shrub Wetland (PSS)
Open Field-Shrub Land (OFS)
Commercial/Industrial (CI)
Agricultural (AG)
Other (OT)
Open Water (OW)
House/Yard (HY)
Upland Forest (UF)
State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Mansfield Hollow No ROW Expansion Option

Mapsheet 1 of 3 NRE

Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

Nipmuck Trail, East Branch (Blue Dot Trail)

BASSETTS

BRIDGE RD

SOUTH BEDLAM RD

NU Property

89 90 91 92 93 94 95 96 97 98

88

9087 9088 9089 9090 9091 9092 9093 9094 9095 9096 9097

W20-67 W20-68 W20-69 W20-70 W20-71 W20-72 W20-73 W20-74

S20-20 S20-21 S20-21A S20-22 S20-23

PFO UF HY OFS PEM PSS AG OW

Existing 150-foot-Wide ROW, No ROW Expansion. All Existing Structures to be Removed and Rebuilt.

Match Line Maps 1 and 2 of 3 NRE

Match Line Maps 2 and 3 of 3 NRE

RAR-90

MANSFIELD

CHAPLIN

RAR

Connecticut Natural Diversity Data Base Area

Mansfield Hollow Wildlife Management Area

Mansfield Hollow Wildlife Management Area

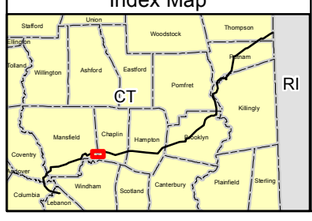
Nipmuck Trail, East Branch (Blue Dot Trail)

FH

Natchaug River

Mansure Pond

Index Map



Right-of-Way (Existing)
Proposed 345-kV Line (Centerline)
Existing Transmission Line (Centerline)
Existing Structure (9001)
Existing Structure (Guy Relocation)
Proposed Structure (1)

Connecticut Natural Diversity Data Base Area
Municipal/Private Park or Open Space
Property Line
Town/State Boundary
Potential Access Road
Northeast Utilities Property
Historic District

State Forest or Park
Wildlife Area or Sanctuary
100-Year Flood Zone
Wetland Boundary (W20-1)
Watercourse (S20-68)
R80 Zoning Designation

Land Use/Vegetative Cover Type

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Forested Wetland (PFO)
Scrub - Shrub Wetland (PSS)
Open Field-Shrub Land (OFS)
Commercial/Industrial (CI)
Agricultural (AG)
Other (OT)
Open Water (OW)
House/Yard (HY)
Upland Forest (UF)
State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Mansfield Hollow No ROW Expansion Option

Mapsheet 2 of 3 NRE

Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

Existing 150-foot-Wide ROW, No ROW Expansion. All Existing Structures to be Removed and Rebuilt.

Match Line Maps 2 and 3 of 3 NRE

Mansfield Hollow Wildlife Management Area

RAR

US ROUTE 6

CHAPLIN WOODS DR

WILLIMANTIC RD

CHAPPELL ST

Connecticut Natural Diversity Data Base Area

CHAPLIN

Town Open Space

Tucker Pond

Natchaug State Forest

Natchaug Forest Trail

Fin, Fur and Feather Club, Inc.

PARK DR

98 99 100 101 102 103 104 105 106 107 108 109

9097 9098 9099 9100 9101 9102 9103 9104 9105 9106 9107 9108

S20-23 S20-24 S20-25 S20-26 S20-27

W20-74 W20-75 W20-76 W20-77 W20-78 W20-79 W20-80 W20-81 W20-82 W20-83 W20-84 W20-85

PFO PSS OFS UF OW

Index Map

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- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

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- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Mansfield Hollow No ROW Expansion Option

Mapsheet 3 of 3 NRE

Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

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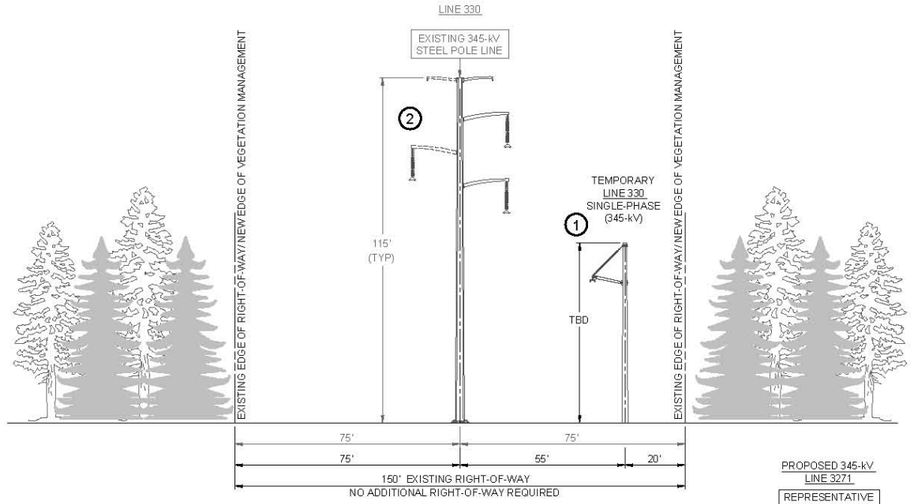
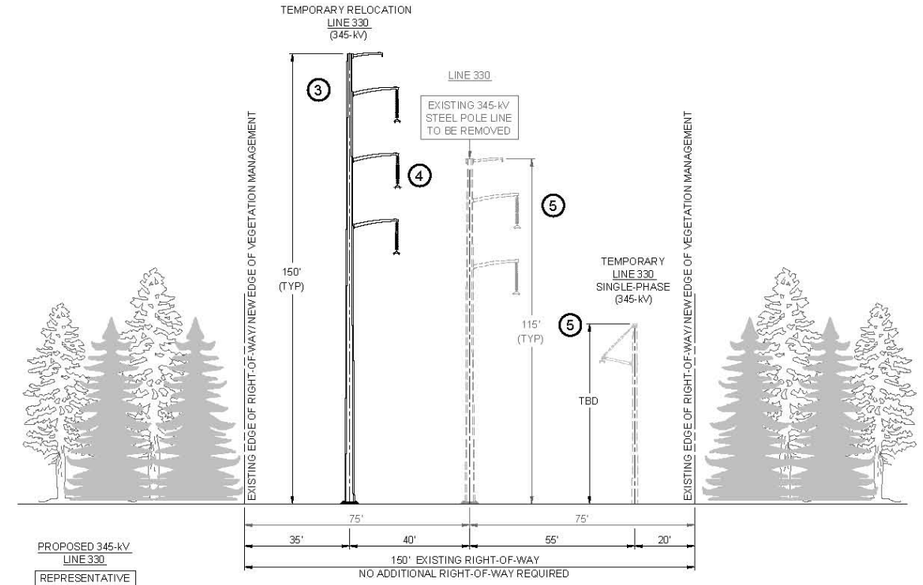
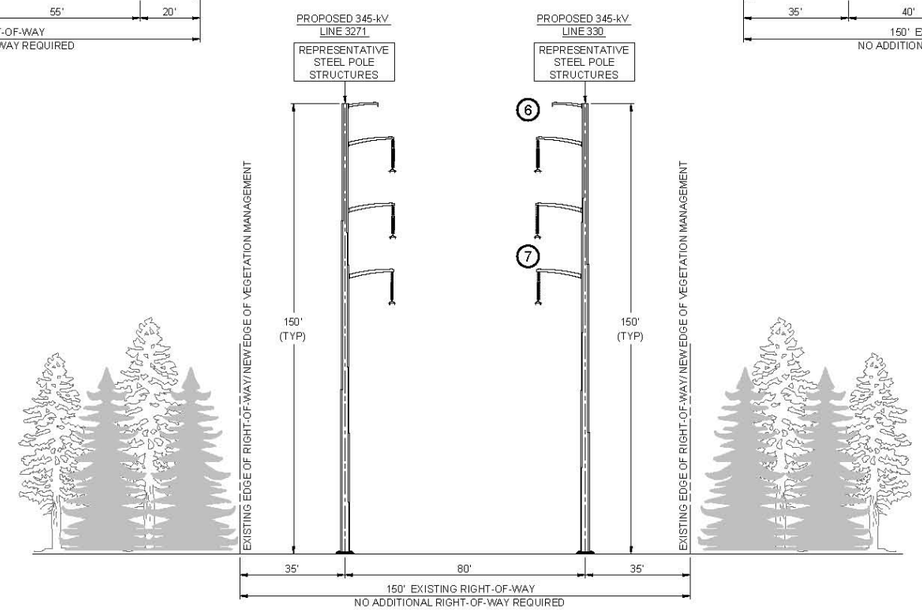
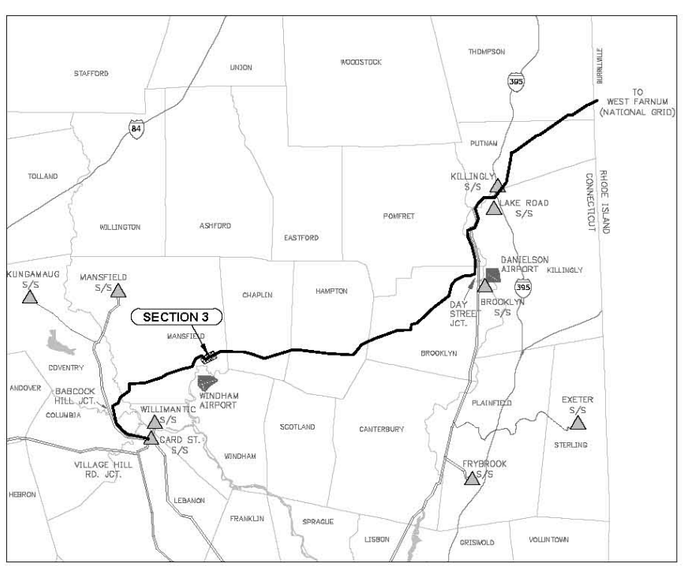






CONSTRUCTION SEQUENCE:

1. INSTALL SINGLE-PHASE BRACED-POST WOOD STRUCTURES AND NEW CONDUCTORS.
2. REMOVE EXISTING CONDUCTORS, SHIELD WIRE AND ARMS ON LEFT SIDE OF STRUCTURE.
3. ERECT PROPOSED STEEL POLE FOR NEW LINE 3271.
4. TEMPORARILY CUT-OVER LINE 330 TO NEW LINE 3271 STRUCTURES.
5. REMOVE OLD 330 STRUCTURES AND SINGLE-PHASE WOOD STRUCTURES.
6. ERECT STEEL POLES FOR RELOCATED LINE 330.
7. ADJUST TRANSITIONS TO RE-CONNECT LINE 330 AND LINE 3271 TO THE REMAINDER OF THOSE LINES.



KEY MAP
NOT TO SCALE

NO R.O.W. EXPANSION (NRE) CONFIGURATION
VERTICAL STEEL POLE DESIGN

USACE PROPERTIES, SEGMENT 1

MANSFIELD HOLLOW STATE PARK
TO
BASSETTS BRIDGE ROAD

IN THE TOWN OF
MANSFIELD

EXISTING STRUCTURES 9081-9086

LOOKING
NORTHEASTERLY

(1.0 MILE)

NOTES:

1. EXISTING DELTA LINE TO BE REMOVED.
2. PRELIMINARY STRUCTURE SPOTTING IS BASED ON STRUCTURE-FOR-STRUCTURE INSTALLATION.
3. ALL VEGETATION WITHIN THE 150-FOOT-WIDE R.O.W. WOULD BE AFFECTED. THE ENTIRE 150-FOOT-WIDE R.O.W. WOULD SUBSEQUENTLY BE MANAGED IN LOW-MATURING VEGETATIVE SPECIES.
4. DEPICTED STRUCTURE HEIGHTS REPRESENT THE MOST TYPICAL STRUCTURE HEIGHT FOR EACH TYPE OF LINE IN THIS R.O.W. SEGMENT. THE ACTUAL HEIGHTS OF EXISTING STRUCTURES, AND THE POTENTIAL HEIGHTS OF NEW STRUCTURES THAT WOULD BE USED FOR THIS CONFIGURATION OPTION, MAY DIFFER. FOR SPECIFIC STRUCTURE HEIGHTS, REFER TO THE TABLE OF INDIVIDUAL STRUCTURE HEIGHTS IN SECTION 10, WHICH REFLECTS A PRELIMINARY LINE DESIGN. FURTHER, IF THIS CONFIGURATION OPTION WAS SELECTED, THOSE STRUCTURE HEIGHTS COULD CHANGE DURING FINAL DESIGN.
5. EXISTING VEGETATION MANAGEMENT EDGES ARE TYPICAL.
6. AFTER THE CONDUCTORS HAVE BEEN INSTALLED, A REFERENCE IS ESTABLISHED THAT MAY IDENTIFY ADDITIONAL DANGER TREES OUTSIDE THE INITIALLY CLEARED AREA THAT MIGHT NEED TO BE REMOVED.
7. DEPICTED STRUCTURES ARE STEEL TANGENT STRUCTURES. ANGLE AND DEADEND STRUCTURES WILL DIFFER.

PRELIMINARY DESIGN
SUBJECT TO CHANGE

Northeast Utilities System

TITLE	INTERSTATE RELIABILITY PROJECT CONSTRUCTION SEQUENCE: MANSFIELD HOLLOW SEGMENT 1, NO R.O.W. EXPANSION CONFIGURATION		
BY D. LAURSEN	CHKD M. HATFIELD	APP	APP
DATE 11/11	DATE	DATE	DATE
SCALE NONE	MICROFILM DATE	DWG. NO. CS-3-MH-NRE	
P.A. #			

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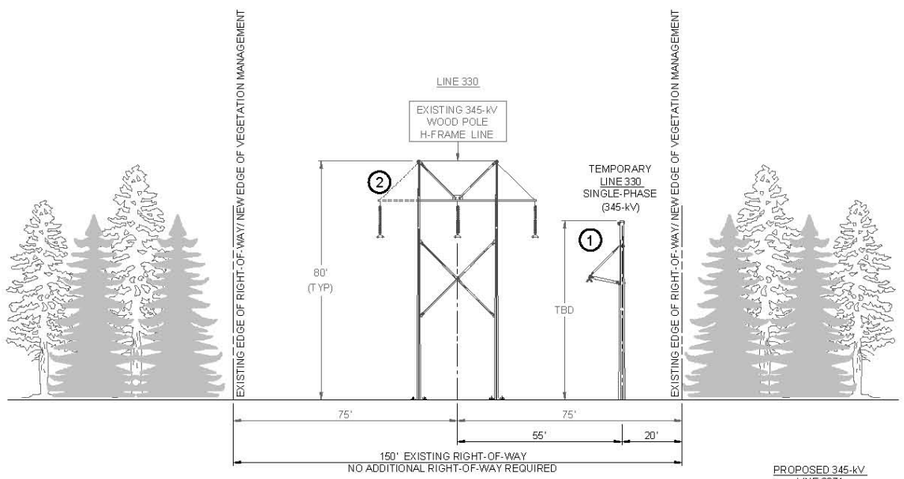

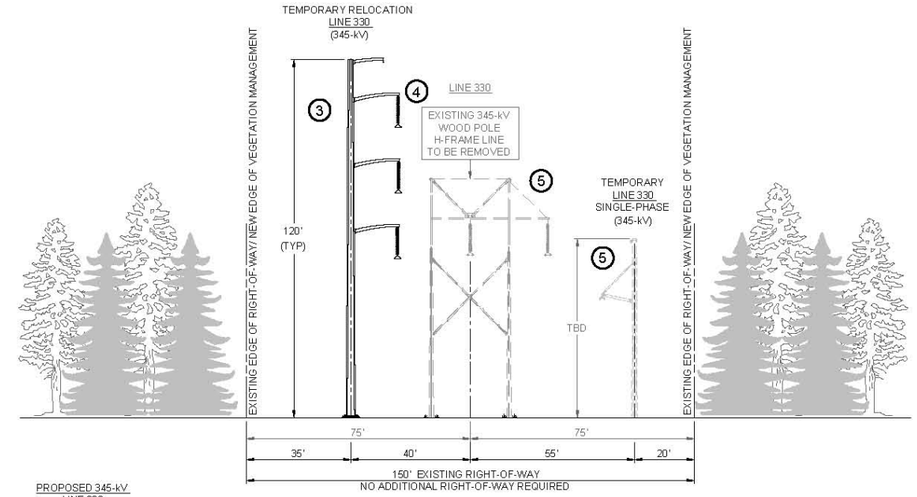

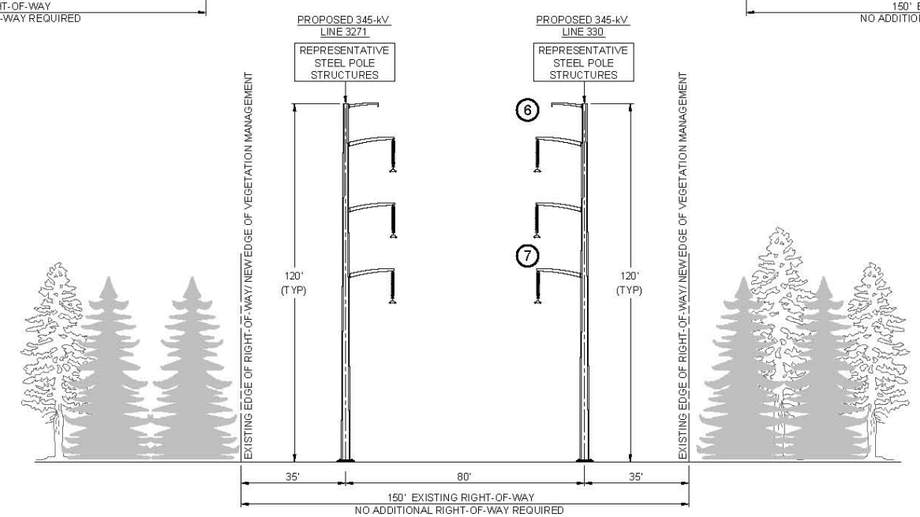

CONSTRUCTION SEQUENCE:

1. INSTALL SINGLE-PHASE BRACED-POST WOOD STRUCTURES AND NEW CONDUCTORS.
2. REMOVE EXISTING CONDUCTORS, SHIELD WIRE AND CROSS ARM ON LEFT SIDE OF STRUCTURE.
3. ERECT PROPOSED STEEL POLE FOR NEW LINE 3271.
4. TEMPORARILY CUT-OVER LINE 330 TO NEW LINE 3271 STRUCTURES.
5. REMOVE OLD 330 STRUCTURES AND SINGLE-PHASE WOOD STRUCTURES.
6. ERECT STEEL POLES FOR RELOCATED LINE 330.
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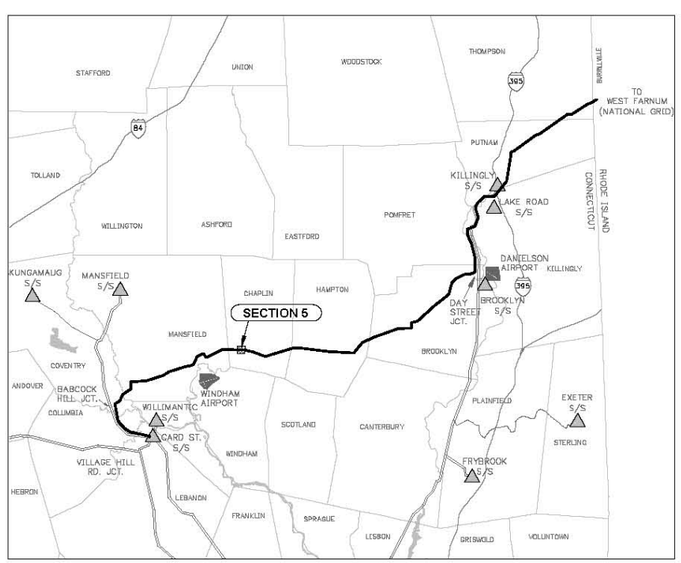

KEY MAP
NOT TO SCALE

NO R.O.W. EXPANSION (NRE) CONFIGURATION
VERTICAL STEEL POLE DESIGN

USACE PROPERTIES, SEGMENT 2

VICINITY OF SHUBA LANE THROUGH MANSFIELD HOLLOW WILDLIFE MANAGEMENT AREA (WMA)
TO
VICINITY OF WILLIMANTIC ROAD (U.S. ROUTE 6)

IN THE TOWN OF
CHAPLIN

EXISTING STRUCTURES 9095-9099

LOOKING
EAST

(0.5 MILE)

NOTES:

1. EXISTING H-FRAME LINE TO BE REMOVED.
2. PRELIMINARY STRUCTURE SPOTTING IS BASED ON STRUCTURE-FOR-STRUCTURE INSTALLATION.
3. ALL VEGETATION WITHIN THE 150-FOOT-WIDE R.O.W. WOULD BE AFFECTED. THE ENTIRE 150-FOOT-WIDE R.O.W. WOULD SUBSEQUENTLY BE MANAGED IN LOW-MATURING VEGETATIVE SPECIES.
4. DEPICTED STRUCTURE HEIGHTS REPRESENT THE MOST TYPICAL STRUCTURE HEIGHT FOR EACH TYPE OF LINE IN THIS R.O.W. SEGMENT. THE ACTUAL HEIGHTS OF EXISTING STRUCTURES, AND THE POTENTIAL HEIGHTS OF NEW STRUCTURES THAT WOULD BE USED FOR THIS CONFIGURATION OPTION, MAY DIFFER. FOR SPECIFIC STRUCTURE HEIGHTS, REFER TO THE TABLE OF INDIVIDUAL STRUCTURE HEIGHTS IN SECTION 10, WHICH REFLECTS A PRELIMINARY LINE DESIGN. FURTHER, IF THIS CONFIGURATION OPTION WAS SELECTED, THOSE STRUCTURE HEIGHTS COULD CHANGE DURING FINAL DESIGN.
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6. AFTER THE CONDUCTORS HAVE BEEN INSTALLED, A REFERENCE IS ESTABLISHED THAT MAY IDENTIFY ADDITIONAL DANGER TREES OUTSIDE THE INITIALLY CLEARED AREA THAT MIGHT NEED TO BE REMOVED.
7. DEPICTED STRUCTURES ARE STEEL TANGENT STRUCTURES. ANGLE AND DEADEND STRUCTURES WILL DIFFER.

PRELIMINARY DESIGN
SUBJECT TO CHANGE

Northeast Utilities System

TITLE	INTERSTATE RELIABILITY PROJECT CONSTRUCTION SEQUENCE: MANSFIELD HOLLOW WILDLIFE MANAGEMENT AREA (WMA) SEGMENT 2, NO R.O.W. EXPANSION CONFIGURATION		
BY D. LAURSEN	CHKD M. HATFIELD	APP	APP
DATE 11/11	DATE	DATE	DATE
SCALE NONE	MICROFILM DATE	DWG. NO. CS-5-MH-NRE	
P.A. #			

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Interstate Reliability Project
Mansfield Hollow State Park – Town of Mansfield
Transmission Rights-of-Way
Typical Cross Section XS-3-MH-NRE
No ROW Expansion Option

The existing 345-kV line will be removed and two new vertical-configured 345-kV lines will be installed, no ROW expansion option (Segment 1: 0 feet).

(Existing View – Leaf-off Condition)

Existing electric transmission line structures looking east in Mansfield Hollow State Park, located south of Bassetts Bridge Road.

(Simulation of Post Project View – Leaf-off Condition)

Preliminary design of electric transmission line structures looking east in Mansfield Hollow State Park, located south of Bassetts Bridge Road.

NOTE: See Drawing XS-3-MH-MRE for a representation of the typical transmission structures, typical heights of the structures, and ROW width for this cross section.

Interstate Reliability Project
Mansfield Hollow State Park – Town of Mansfield
Transmission Rights-of-Way
Typical Cross Section XS-3-MH-NRE
No ROW Expansion Option

The existing 345-kV line will be removed and two new vertical-configured 345-kV lines will be installed, no ROW expansion option (Segment 1: 0 feet).

(Existing View – Leaf-on Condition)

Existing electric transmission line structures looking east in Mansfield Hollow State Park, located south of Bassetts Bridge Road.

(Simulation of Post Project View – Leaf-on Condition)

Preliminary design electric transmission line structures looking east in Mansfield Hollow State Park, located south of Bassetts Bridge Road.

NOTE: See Drawing XS-3-MH-ME for a representation of the typical transmission structures, typical heights of the structures, and ROW width for this cross section.

Interstate Reliability Project
Mansfield Hollow Wildlife Management Area / Nipmuck Trail (East Branch) – Town of Mansfield
Transmission Rights-of-Way
Typical Cross Section XS-3-MH-NRE
No ROW Expansion Option

The existing 345-kV line will be removed and two new vertical-configured 345-kV lines will be installed, no ROW expansion option (Segment 1: 0 feet).

(Existing View – Leaf-off Condition)

Existing electric transmission line structures looking southwest from the Nipmuck Trail - East Branch and toward Mansfield Hollow Wildlife Management Area, located west of Bassetts Bridge Road.

(Simulation of Post Project View – Leaf-off Condition)

Preliminary design of electric transmission line structures looking southwest from the Nipmuck Trail - East Branch and toward Mansfield Hollow Wildlife Management Area, located west of Bassetts Bridge Road.

NOTE: See Drawing XS-3-MH-NRE for a representation of the typical transmission structures, typical heights of the structures, and ROW width for this cross section.

Interstate Reliability Project
Mansfield Hollow Wildlife Management Area / Nipmuck Trail (East Branch) – Town of Mansfield
Transmission Rights-of-Way
Typical Cross Section XS-3-MH-NRE
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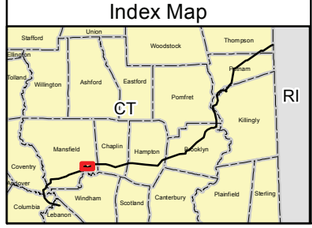
Appendix B.2: 11-Acre ROW Expansion Option

Note: This page intentionally left blank

Flood Control Levee Trail
Joshua's Tract Conservation and Historic Land Trust, Inc. (Wildlife Area)
Mansfield Hollow Wildlife Management Area
Nipmuck Trail, East Branch (Blue Dot Trail)
Connecticut Natural Diversity Data Base Area
Mansfield Hollow Lake
MANSFIELD
RAR-90
W20-64
W20-63
W20-66
W20-65
S20-19
Mansfield Hollow Dam Historic District
Mansfield Hollow State Park
Mansfield Hollow Park Trail / Red Trail
Mansfield Hollow Park Trail
11-Acre ROW Expansion Option
Match Line Maps 8 and 9 of 40
Match Line Maps 9 and 10 of 40
Town Open Space (Storrs and Bassetts Bridge Roads)
NU Property
Green Dragon Day Care
BASSETTS BRIDGE RD
HAWTHORNE LN
MANSFIELD HOLLOW RD EXT
FH
77
78
79
80
81
82
83
84
85
86
87
88
9076
9077
9078
9079
9080
9081
9082
9083
9084
9085
9086

Index Map



- Right-of-Way (Existing)
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- Existing Structure (Guy Relocation)
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- Proposed Structure (Guyed)
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- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
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Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

11-Acre ROW Expansion Option

Mapsheet 9 of 40

Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

Nipmuck Trail, East Branch (Blue Dot Trail)

11-Acre ROW Expansion Option

BASSETTS BRIDGE RD

SOUTHBEDLAM RD

NU Property

88 89 90 91 92 93 94 95 96 97 98

9087 9088 9089 9090 9091 9092 9093 9094 9095 9096 9097

W20-67 W20-68 W20-69 W20-70 W20-71 W20-72 W20-73 W20-74

S20-20 S20-21 S20-21A S20-22 S20-23

Connecticut Natural Diversity Data Base Area

RAR-90

MANSFIELD

CHAPLIN

RAR

Mansfield Hollow Wildlife Management Area

Mansfield Hollow Wildlife Management Area

Mansure Pond

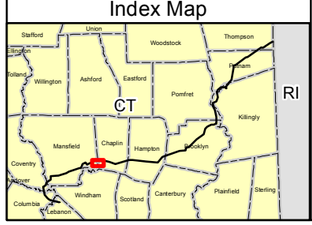
Natchaug River

FH

Match Line Maps 9 and 10 of 40

Match Line Maps 10 and 11 of 40

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure (9001)
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- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

11-Acre ROW Expansion Option

Mapsheet 10 of 40

Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

11-Acre ROW Expansion Option

Natchaug Forest Trail

Natchaug State Forest

Fin, Fur and Feather Club, Inc.

Mansfield Hollow Wildlife Management Area

Town Open Space

Connecticut Natural Diversity Data Base Area

CHAPLIN

RAR

US ROUTE 6

CHAPLIN WOODS DR

WILLIMANTIC RD

CHAPPELL ST

PARK DR

Tucker Pond

Match Line Maps 10 and 11 of 40

Match Line Maps 11 and 12 of 40

98 99 100 101 102 103 104 105 106 107 108 109

9097 9098 9099 9100 9101 9102 9103 9104 9105 9106 9107 9108

W20-74 W20-75 W20-76 W20-77 W20-78 W20-79 W20-80 W20-81 W20-82 W20-83 W20-84 W20-85

S20-23 S20-24 S20-25 S20-26 S20-27

Index Map

- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure (9001)
- Existing Structure (Guy Relocation)
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- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary (W20-1)
- Watercourse (S20-68)
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

11-Acre ROW Expansion Option

Mapsheet 11 of 40

Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

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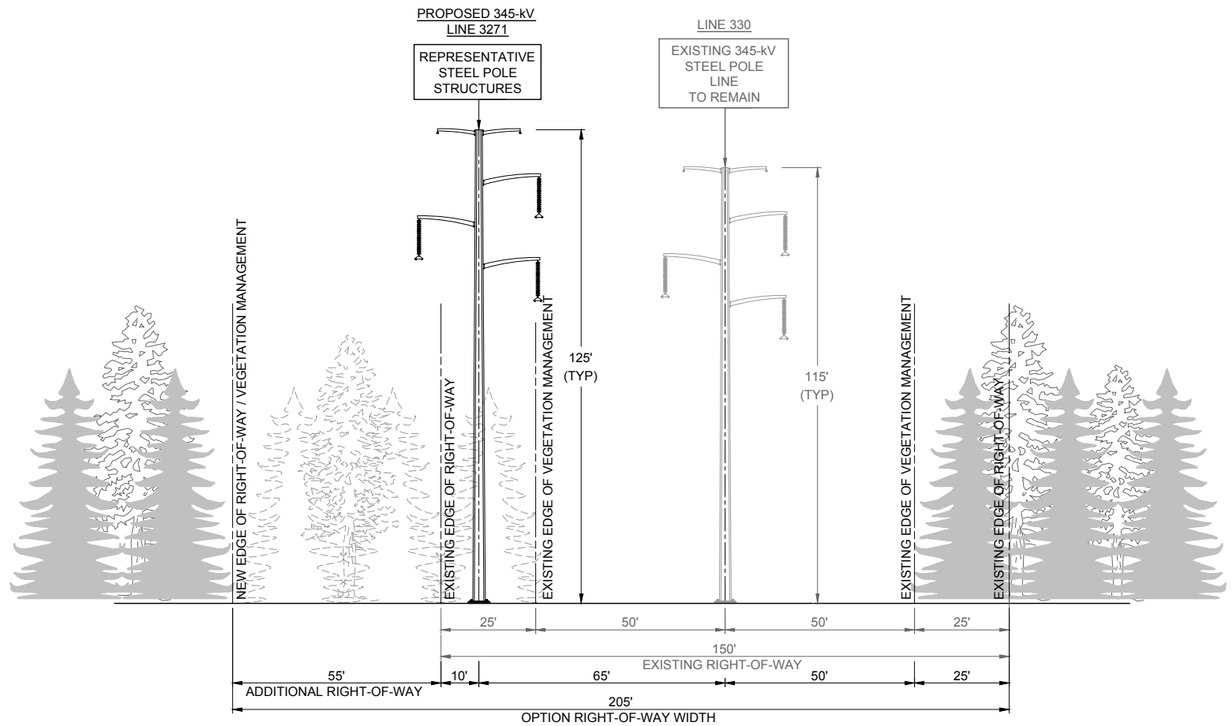


11-ACRE R.O.W. EXPANSION
DELTA STEEL POLE DESIGN

USACE PROPERTIES, SEGMENT 1

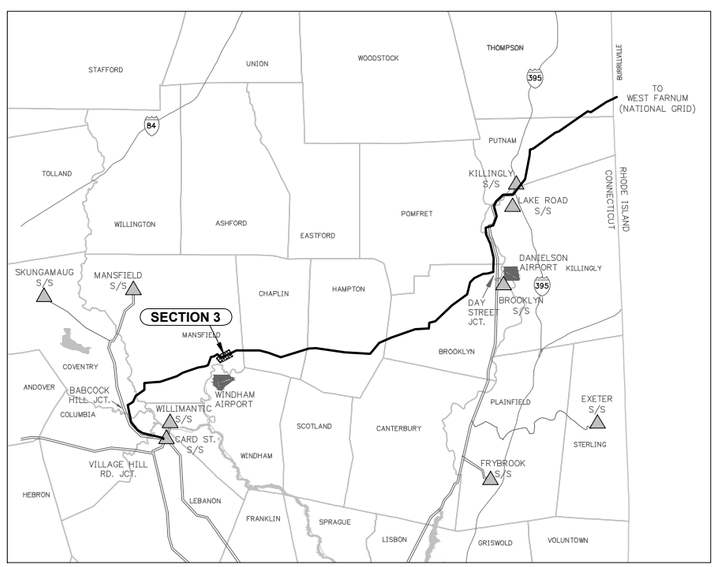
MANSFIELD HOLLOW STATE PARK
TO
BASSETTS BRIDGE ROAD

IN THE TOWN OF
MANSFIELD

EXISTING STRUCTURES 9081-9086

LOOKING
NORTHEASTERLY

(1.0 MILE)



KEY MAP
NOT TO SCALE

N

NOTES:

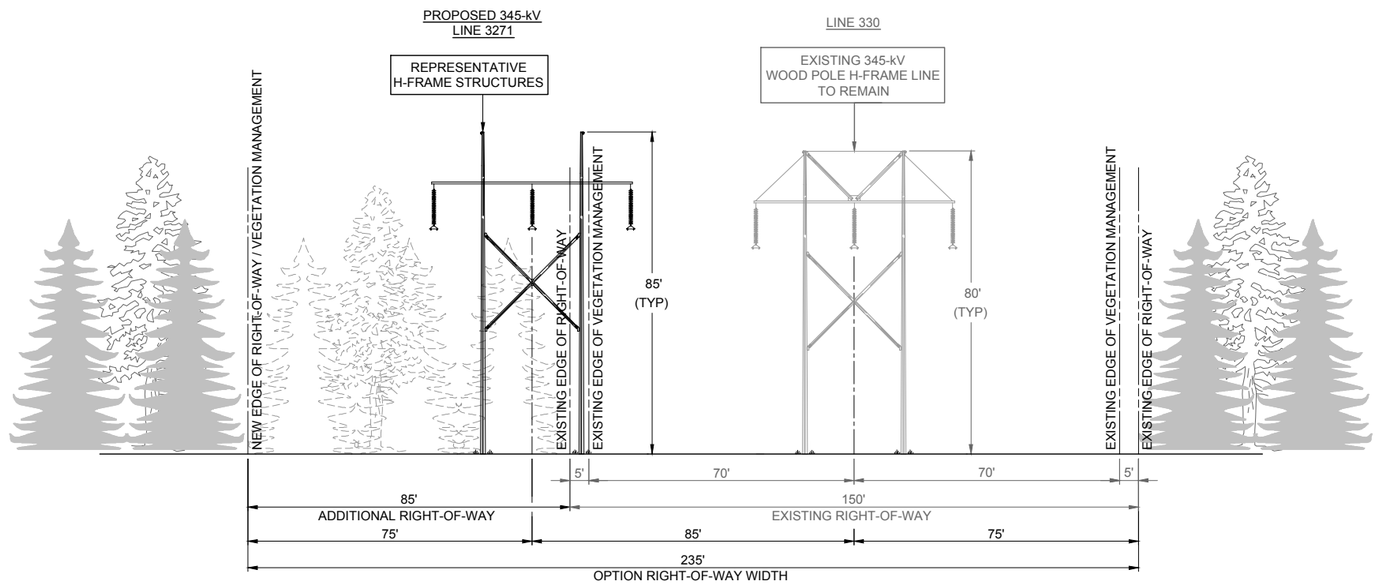
1. EXISTING LINE TO REMAIN.
2. PRELIMINARY STRUCTURE SPOTTING IS BASED ON STRUCTURE-FOR-STRUCTURE INSTALLATION.
3. LOW-MATURING WOODY SHRUB SPECIES ARE TYPICALLY NOT REMOVED.
4. STRUCTURE HEIGHTS WERE DETERMINED FROM TYPICAL EXPECTED SPANS. STRUCTURE HEIGHTS ARE SUBJECT TO CHANGE WITH THE COMPLETION OF FINAL DESIGN.
5. EXISTING AND NEW VEGETATION MANAGEMENT EDGES ARE TYPICAL.
6. WITHIN THIS EXPANDED 55-FOOT-WIDE R.O.W., ALL TALL-GROWING VEGETATION WOULD BE REMOVED DURING CONSTRUCTION. THIS AREA WOULD SUBSEQUENTLY BE MANAGED IN LOW-MATURING VEGETATION.
7. AFTER THE CONDUCTORS HAVE BEEN INSTALLED, A REFERENCE IS ESTABLISHED THAT MAY IDENTIFY ADDITIONAL DANGER TREES OUTSIDE THE INITIALLY CLEARED AREA THAT MIGHT NEED TO BE REMOVED.
8. DEPICTED STRUCTURES ARE STEEL TANGENT STRUCTURES. ANGLE AND DEADEND STRUCTURES WILL DIFFER.

PRELIMINARY DESIGN SUBJECT TO CHANGE

Northeast Utilities System

TITLE	INTERSTATE RELIABILITY PROJECT 11-ACRE R.O.W. EXPANSION MANSFIELD HOLLOW STATE PARK TO BASSETTS BRIDGE ROAD		
BY D. LAURSEN	CHKD M. HATFIELD	APP	APP
DATE 04/12	DATE	DATE	DATE
SCALE NONE	MICROFILM DATE	DWG. NO. XS-3	
P.A. #			

N:\NUSCO\46197 - Interstate\Cadd\OH\Cross Section Drawings\Cross-Sections.dwg (XS-3 EA) 04-30-2012 11:10 DDL B&McD



11-ACRE R.O.W. EXPANSION

H-FRAME DESIGN

USACE PROPERTIES, SEGMENT 2

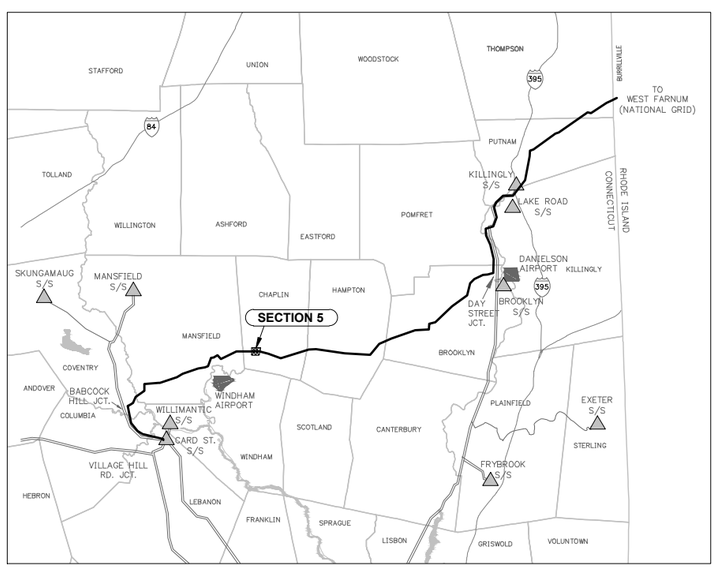
VICINITY OF SHUBA LANE THROUGH MANSFIELD HOLLOW WILDLIFE MANAGEMENT AREA (WMA)
TO
VICINITY OF WILLIMANTIC ROAD (U.S. ROUTE 6)

IN THE TOWN OF
CHAPLIN

EXISTING STRUCTURES 9095-9099

LOOKING
EAST

(0.5 MILE)



KEY MAP
NOT TO SCALE

N

NOTES:

1. EXISTING LINE TO REMAIN.
2. PRELIMINARY STRUCTURE SPOTTING IS BASED ON STRUCTURE-FOR-STRUCTURE INSTALLATION.
3. LOW-MATURING WOODY SHRUB SPECIES ARE TYPICALLY NOT REMOVED.
4. STRUCTURE HEIGHTS WERE DETERMINED FROM TYPICAL EXPECTED SPANS. STRUCTURE HEIGHTS ARE SUBJECT TO CHANGE WITH THE COMPLETION OF FINAL DESIGN.
5. EXISTING AND NEW VEGETATION MANAGEMENT EDGES ARE TYPICAL.
6. WITHIN THIS EXPANDED 85-FOOT-WIDE R.O.W., ALL TALL-GROWING VEGETATION WOULD BE REMOVED DURING CONSTRUCTION. THIS AREA WOULD SUBSEQUENTLY BE MANAGED IN LOW-MATURING VEGETATION.
7. AFTER THE CONDUCTORS HAVE BEEN INSTALLED, A REFERENCE IS ESTABLISHED THAT MAY IDENTIFY ADDITIONAL DANGER TREES OUTSIDE THE INITIALLY CLEARED AREA THAT MIGHT NEED TO BE REMOVED.
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PRELIMINARY DESIGN SUBJECT TO CHANGE

Northeast Utilities System

TITLE	INTERSTATE RELIABILITY PROJECT 11-ACRE R.O.W. EXPANSION VICINITY OF SHUBA LANE THROUGH MANSFIELD HOLLOW WMA TO VICINITY OF WILLIMANTIC ROAD		
BY D. LAURSEN	CHKD M. HATFIELD	APP	APP
DATE 04/12	DATE	DATE	DATE
SCALE NONE	MICROFILM DATE	DWG. NO. XS-5	
P.A. #			

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Interstate Reliability Project
Mansfield Hollow State Park – Town of Mansfield
Transmission Rights-of-Way
Typical Cross Section XS-3
11-Acre ROW Expansion

The existing 345-kV line will remain and a new delta-configured 345-kV line will be installed, 11-acre ROW expansion (Segment 1: 55 feet).

(Existing View – Leaf-off Condition)

Existing electric transmission line structures looking east in Mansfield Hollow State Park, located south of Bassetts Bridge Road.

(Simulation of Post Project View – Leaf-off Condition)

Preliminary design of electric transmission line structures looking east in Mansfield Hollow State Park, located south of Bassetts Bridge Road.

NOTE: See Drawing XS-3 for a representation of the typical transmission structures, typical heights of the structures, and ROW width for this cross section.

Interstate Reliability Project
Mansfield Hollow State Park – Town of Mansfield
Transmission Rights-of-Way
Typical Cross Section XS-3
11-Acre ROW Expansion

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Preliminary design electric transmission line structures looking east in Mansfield Hollow State Park, located south of Bassetts Bridge Road.

NOTE: See Drawing XS-3 for a representation of the typical transmission structures, typical heights of the structures, and ROW width for this cross section.

Interstate Reliability Project
Mansfield Hollow Wildlife Management Area / Nipmuck Trail (East Branch) – Town of Mansfield
Transmission Rights-of-Way
Typical Cross Section XS-3
11-Acre ROW Expansion

The existing 345-kV line will remain and a new delta-configured 345-kV line will be installed, 11-acre ROW expansion (Segment 1: 55 feet).

(Existing View – Leaf-off Condition)

Existing electric transmission line structures looking southwest from the Nipmuck Trail - East Branch and toward Mansfield Hollow Wildlife Management Area, located west of Bassetts Bridge Road.

(Simulation of Post Project View – Leaf-off Condition)

Preliminary design of electric transmission line structures looking southwest from the Nipmuck Trail - East Branch and toward Mansfield Hollow Wildlife Management Area, located west of Bassetts Bridge Road.

NOTE: See Drawing XS-3 for a representation of the typical transmission structures, typical heights of the structures, and ROW width for this cross section.

Interstate Reliability Project
Mansfield Hollow Wildlife Management Area / Nipmuck Trail (East Branch) – Town of Mansfield
Transmission Rights-of-Way
Typical Cross Section XS-3
11-Acre ROW Expansion

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Existing electric transmission line structures looking southwest from the Nipmuck Trail - East Branch and toward Mansfield Hollow Wildlife Management Area, located west of Bassetts Bridge Road.

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