



**Connecticut
Light & Power**

The Northeast Utilities System

56 Prospect Street, Hartford, CT 06103

Northeast Utilities Service Company

P.O. Box 270

Hartford, CT 06141-0270

(860) 728-4532

July 10, 2014

Mr. Robert Stein, Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Docket No. 424: Interstate Reliability Project
Development & Management Plan Change Notice Request:
Structure Modifications Pursuant to Federal Aviation Administration Conditions of Determination
for Aviation Warning and Markings - Towns of Mansfield, Brooklyn, and Pomfret

Dear Chairman Stein:

Pursuant to Section 16-50j-62(a)(1) of the Regulations of Connecticut State Agencies (RCSA) and Section 7.2 of the *Development and Management (D&M) Plan for the Construction of the Interstate Reliability Project (Project, Interstate) New 345-kV Transmission Lines and Related Minor Modifications to Adjacent Lines*, The Connecticut Light and Power Company (CL&P) submits the above-referenced proposed D&M Plan change to the Connecticut Siting Council (Council) for review and approval.

In the D&M Plan approved by the Council (Volumes 1 and 2 dated August 2013; Volume 3 dated August 2013, updated February 2014), CL&P noted that consultations with the Federal Aviation Administration (FAA) were ongoing regarding CL&P's proposed aviation warning mitigation for certain 345-kV transmission line structures in the vicinity of the Windham Airport in Willimantic and the Danielson Airport in Killingly. Subsequent to the Council's approval of the D&M Plan, CL&P continued to consult with the FAA and has now designed aviation markings in accordance with the FAA's conditions of a determination of no hazard to aviation.

The new transmission line structures affected by the FAA's conditions are located in the vicinity of the airports, in the Towns of Mansfield, Brooklyn, and Pomfret. The purpose of this proposed D&M Plan change is to incorporate the aviation warning mitigation for these structures into the Project design.

Specifically, CL&P proposes to install steady-state red obstruction lights on eight new transmission line structures near Windham Airport and 10 new transmission line structures near Danielson Airport. Marker balls will be placed on shield wires along spans near some of these structures. Further, to conform to FAA recommendations, CL&P slightly reduced the height of two new structures.

Table 1 identifies the transmission line structures on which lighting or marking will be installed, consistent with the FAA determination, and highlights the structure designs that differ from those presented on the February 2014 D&M Plan Volume 3 maps. All aviation warning lights on the new structures will be solar-powered except for those on Structures 215 and 216. The lights on these two structures, located on either side of Church Street in the Town of Brooklyn, will be supplied by distribution service lines that will extend to the structures from an existing distribution line along Church Street. Structure 215 is located on CL&P-owned property.



Chairman Stein
July 9, 2014
Page 2

For reference, Figure 1 includes photographs of aviation warning lights recently installed on new transmission line structures on the Massachusetts portion of the Greater Springfield Reliability Project. The warning lights planned for the Interstate transmission line structures will be the same, or similar to, these lights. Exhibit FAA-1 illustrates the design of the aviation warnings and solar panels. Figure 2 provides representative photographs of marker balls on transmission lines.

To incorporate the FAA's conditions of marking and/or lighting into the Project design, CL&P proposes to modify eight D&M Plan Volume 3 mapsheets that depict structures affected by the FAA determinations. These proposed D&M Plan Volume 3 modifications are included in Attachment A, and are summarized as follows:

- Volume 3, Mapsheet Nos. 11, 12, 13, 14, 42, 43, 44, and 45. These February 2014 D&M Plan mapsheets include structure-specific notations indicating "Potential FAA Lighting Recommended" or "FAA Lighting Recommended". CL&P proposes to modify the notations on these mapsheets as follows to reflect the FAA-recommended mitigation and CL&P's design:
 - "Aviation Warning Lights to be Installed per FAA Recommendations (Solar Powered; refer Exhibit FAA-1)".
 - "Aviation Warning Lights to be Installed per FAA Recommendations (Distribution Line Power Supply)" (Structures 215 and 216 only).
 - "Marker Balls to be Placed on Span".

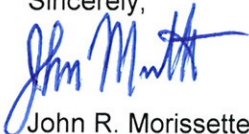
On each of the seven mapsheets, the structure description information table also has been updated, as appropriate, to reflect structure height changes associated with the FAA mitigation (as summarized in Table 1).

CL&P is providing notice of the proposed D&M Plan changes to the affected property owners and chief elected officials of the towns of Mansfield, Brooklyn, and Pomfret.

Enclosed please find an original and 15 copies of this submission.

Should you or other Council members have any questions regarding this submission, please do not hesitate to contact me via e-mail at john.morissette@nu.com or telephone at (860) 728-4532.

Sincerely,



John R. Morissette
Project Manager – Transmission Siting

Enclosures

cc: Service List

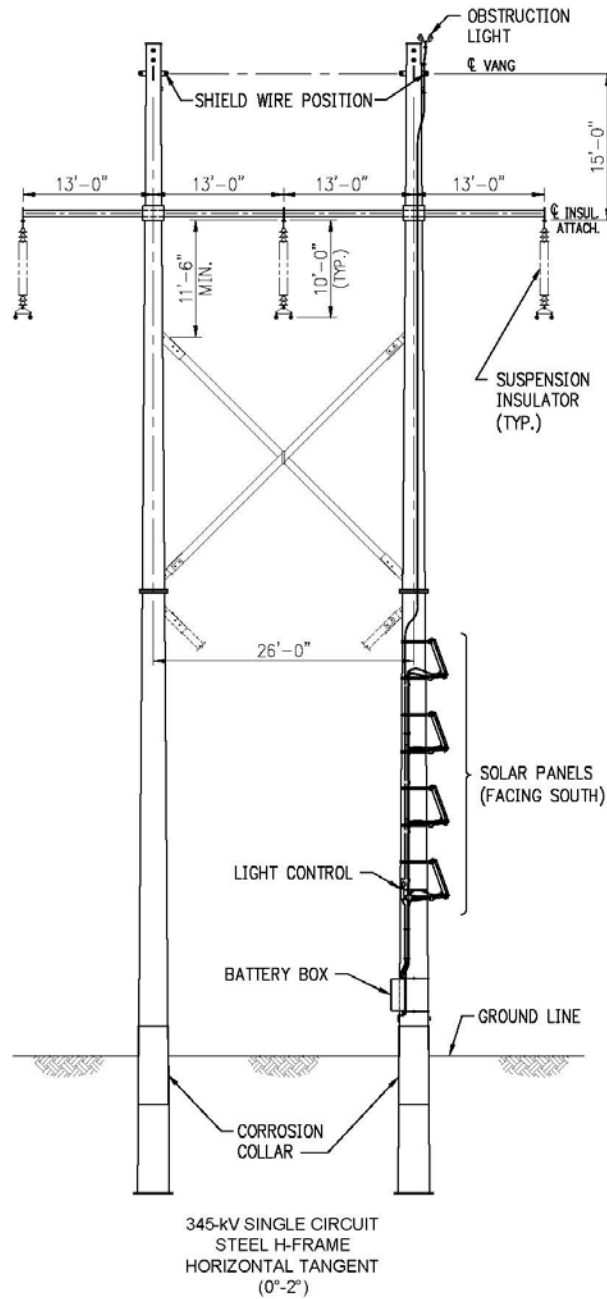
Table 1
Specifications Regarding FAA-Recommended Lighting and Associated Minor Decreases in Structure Height
(Changes from Approved D&M Plan, Volume 3 Maps, dated February 2014, are shown in RED)

D&M Plan Volume 3 Map No. / Town	SUMMARY OF STRUCTURE INFORMATION CONTAINED ON D&M PLAN VOLUME 3 MAPS (February 2014)						TYPE OF LIGHTING OR MARKING PER FAA	
	STR #	NU STR #	DESCRIPTION ¹	HEIGHT ² (FT)	FINISH	FOUNDATION	L-810 Light Power Source	Marker Balls (Location) ³
MANSFIELD								
11	58	10757	345-kV Single Circuit Guyed Steel Frame 3-Pole Horizontal Running Angle (2-15 deg)	70	Weathering	Direct Embed	Solar	N/A
11	59	10758	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed	Solar	N/A
11	60	10759	345-kV Single Circuit Steel H-Frame Horizontal Tangent	110	Weathering	Direct Embed	Solar	N/A
12/13	67	10766	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed	Solar	Ahead and Back Span
13	68	10767	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed	Solar	Ahead Span
13	69	10768	345-kV Single Circuit Guyed Steel Frame 3-Pole Horizontal Running Angle (2-15 deg)	85	Weathering	Direct Embed	Solar	Ahead Span
13	70	10769	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed	Solar	Ahead Span
13	71	10770	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed	Solar	Ahead Span
14	73	10772	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed	N/A	N/A
BROOKLYN								
42	215	10913	345-kV Single Circuit Steel H-Frame Horizontal Tangent	90	Weathering	Direct Embed	Distribution Line	Ahead and Back Span
42	216	10914	345-kV Single Circuit Steel H-Frame Horizontal Tangent	90	Weathering	Direct Embed	Distribution Line	Ahead Span
43/44	222	10920	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed	Solar	Ahead and Back Span
44	223	10921	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed	Solar	Ahead Span
POMFRET								
44	224	10922	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed	Solar	Ahead Span
44/45	225	10923	345-kV Single Circuit Steel H-Frame Horizontal Tangent	75 70	Weathering	Direct Embed	Solar	Ahead Span
45	226	10924	345-kV Single Circuit Steel H-Frame Horizontal Tangent	70 62	Weathering	Direct Embed	Solar	Ahead Span
45	227	10925	345-kV Single Circuit Guyed Steel 3-Pole Horizontal Running Angle (10-20 deg)	75	Weathering	Direct Embed	Solar	Ahead Span
45	228	10926	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed	Solar	Ahead Span
45	229	10927	345-kV Single Circuit Steel H-Frame Horizontal Tangent	90	Weathering	Direct Embed	Solar	Ahead Span

Notes:


1. Structure description is as specified in the February 2014 D&M Plan, Volume 3 maps (shown in black), with planned changes to accommodate FAA recommendations shown in red.
2. Structure height (feet) identifies height per the February 2014 D&M Plan, Volume 3 maps (shown in black), with height change planned to reflect conformance to FAA recommendations shown in red.
3. Marker ball location "ahead or back span" refers to the planned location of the FAA-recommended marker balls along conductor wires either in front of or in back of the specified transmission line structure. Refer to Figure 2 for representative photographs of marker balls on transmission line conductors.
4. Per the final FAA recommendations, Structure 73 does not require lighting.

Exhibit FAA-1: FAA Light and Solar Panel Arrangement on Transmission Structure



NOTES:

1. STRUCTURE SHOWN DEPICTS A TYPICAL SOLAR PANEL AND OBSTRUCTION LIGHT ARRANGEMENT.

	Northeast Utilities Service Co. CONNECTICUT LIGHT & POWER INTERSTATE RELIABILITY PROJECT			
	TITLE FAA LIGHT & SOLAR PANEL ARRANGEMENT			
BY BMcD	REV. NO. -	DATE 03/31/14	SIZE	DWG. NO. EXHIBIT FAA-1

R:\VUSCO\46197 - Interstate\Coord\OHV\SR\SR_TYPES\SR_TYPES\SR_TYPES.dwg (FAA-1) 03-31-2014 14:04 DD: BMcD



Figure 1a



Figure 1b



Figure 1c

Figure 1 (a-c)
Aviation warning lights recently installed on new transmission line structures on the Massachusetts portion of the Greater Springfield Reliability Project

Figure 2
Representative Examples of Marker Balls on Transmission Lines



ATTACHMENT A

REVISED D&M PLAN VOLUME 3 MAPSHEETS INCORPORATING LIGHTING, MARKING, AND STRUCTURE HEIGHT MODIFICATIONS TO REFLECT FAA CONDITIONS OF DETERMINATION AVIATION WARNINGS AND MARKINGS

(Revised Mapsheet Nos. 11, 12, 13, 14, 42, 43, 44, and 45)

EROSION AND SEDIMENTATION CONTROLS NOTES

1. Install and maintain erosion and sedimentation controls as necessary to prevent the discharge of sediment to wetlands and watercourses and avoid the discharge of turbid stormwater from the project area.
2. Apply erosion control measures (e.g., mulch, netting, or tackifier) or vegetative cover to areas of disturbed ground to avoid and minimize soil erosion.
3. Install sedimentation barriers (e.g., staked bales or silt fence) downslope from large areas of disturbed ground as necessary to minimize movement of eroded soil.
4. Inspect erosion and sedimentation controls and monitor stormwater runoff as detailed in the Stormwater Pollution Control Plan and as required by the NPDES Stormwater General Permit.
5. General Permit Registration Form Part V: Stormwater Discharge Information shall be completed by Burns & McDonnell Engineer and/or Compliance Inspector prior to start of any earth disturbing activities.

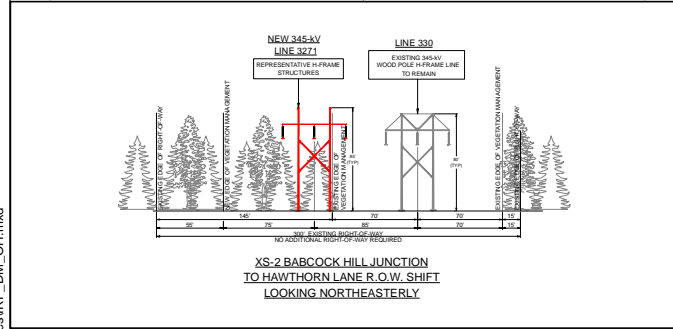
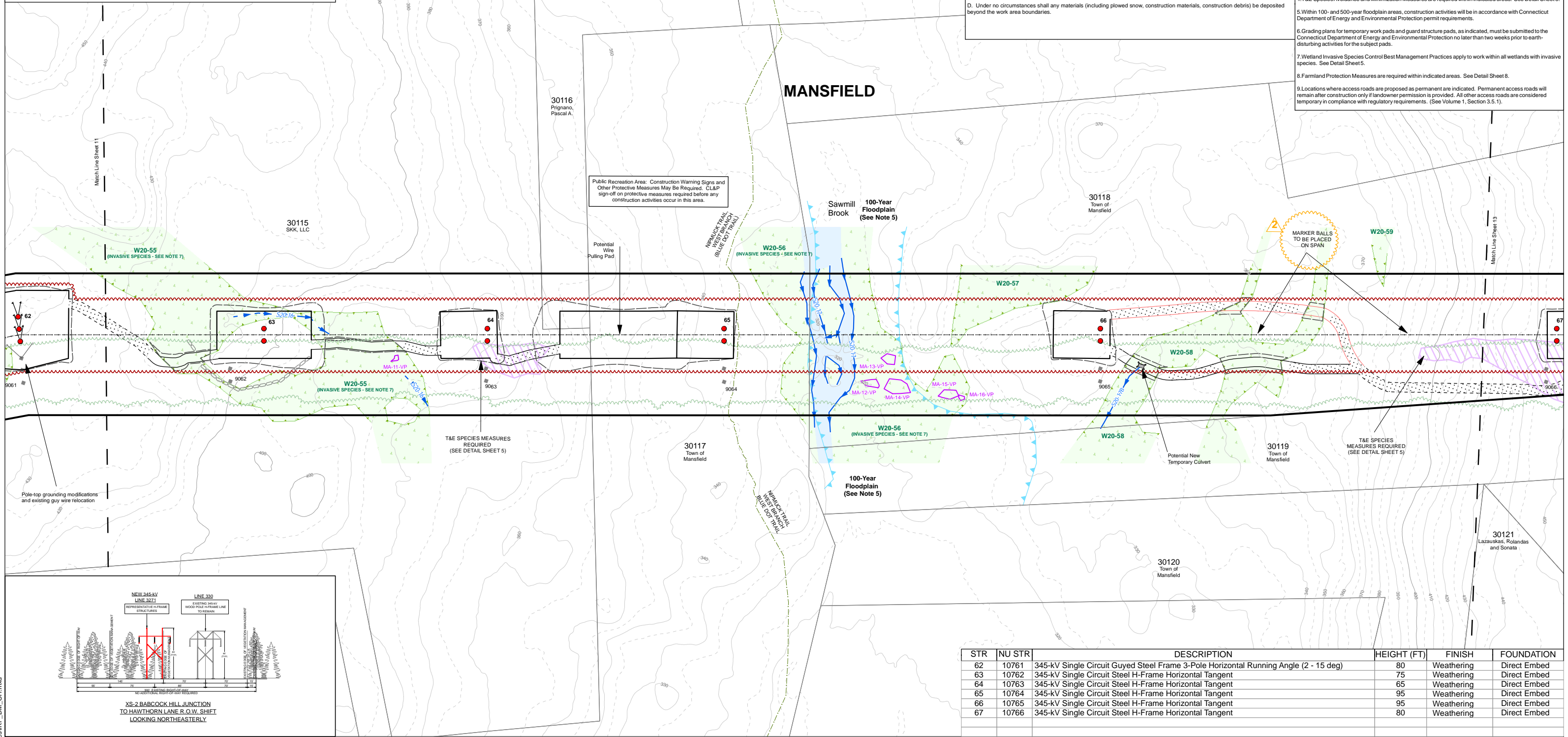
WORK AREA BOUNDARIES IN / NEAR WETLANDS

Vegetation removal will occur within the Vegetation Clearing Limits for Construction as shown, with temporary access routes in and across wetlands as necessary. Additionally, danger or hazard tree removal may be required outside of the Vegetation Clearing Limits for Construction, including within wetlands. For all other construction activities, work area boundaries will be defined by deployed E&S controls (silt fence and straw bales or equivalent). Further:

- A. Work area boundaries will not necessarily encompass the entire width of the cleared area (e.g., tree line to tree line), but instead will be defined on a site-specific basis.
- B. Boundaries shall be defined by E&S controls and thus may be different in dimension (but may be no greater in total square footage) than depicted on the D&M Plan maps.
- C. All construction activities within wetlands, including access roads, work pads, temporary stockpiles of stripped topsoil or spoil (if necessary), excavations, equipment movements, etc., shall be contained within the work area boundaries.
- D. Under no circumstances shall any materials (including plowed snow, construction materials, construction debris) be deposited beyond the work area boundaries.

NOTES

1. All work will be conducted in accordance with the relevant portions of CL&P's December 2011 Best Management Practices Manual: Connecticut Construction and Maintenance Environmental Requirements unless more stringent project-specific measures apply. See Volumes 1 and 2.
2. All work will be conducted in accordance with the requirements of regulatory approvals from the U.S. Army Corps of Engineers and the Connecticut Department of Energy and Environmental Protection, and with all Project Protocols. See Detail Sheets 1-4.
3. Erosion and sedimentation control measures will be installed during construction, as required, to comply with the 2002 Connecticut Guidelines for Erosion and Sediment Control, and CL&P's December 2011 Best Management Practices Manual: Connecticut Construction and Maintenance Environmental Requirements, and applicable regulatory approvals. See Detail Sheets 6 & 7.
4. T&E Species Avoidance and Minimization Measures are required within indicated areas. See Detail Sheet 5.
5. Within 100- and 500-year floodplain areas, construction activities will be in accordance with Connecticut Department of Energy and Environmental Protection permit requirements.
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Legend

- New Transmission Structure Pole
- New Transmission Line
- Existing Transmission Structure Pole
- Existing Distribution Lines
- Existing Distribution Structures
- New Guy Anchor
- Relocated Guy Anchor
- New Guy Wire
- Relocated Guy Wire
- Existing Access Road
- Proposed New Access Road
- Alternate Access Road
- Permanent (See Note 9)
- Work Pad
- Limit of Disturbance
- Existing ROW
- Stone Wall
- Property Lines
- NU Property
- Town Line
- Named Public Trails
- Vegetation Clearing Limits for Construction
- Existing Tree Canopy Line
- Wetland
- Open Water
- Perennial Stream
- Intermittent Stream
- Vernal Pool
- Amphibian Breeding Habitat
- T&E Species Area

Revisions

NO.	DATE	REVISIONS	BY	CHK	APP	APP
2	6/27/2014	FAA Lighting and Marking Recommendations	LD	MK		
1	2/14/2014	404/401 Permit Revisions	LD	MK		

Log

DATE	DESIGNED	CHECKED	DATE	CHKD	APP	DATE	APP
6/27/2014	M. Kasinskas & M. Goetz	M. Kasinskas	8/30/2013				

Project Information

DATE: 6/27/2014
 DETAILED BY: M. Goetz
 CHECKED BY: M. Kasinskas
 PROJECT: Interstate Reliability Project Development & Management Plan
 SHEET: Map Sheet 12 of 66

Logos: Burns & McDonnell SINCE 1898, Northeast Utilities Service Co., THE CONNECTICUT LIGHT & POWER CO.

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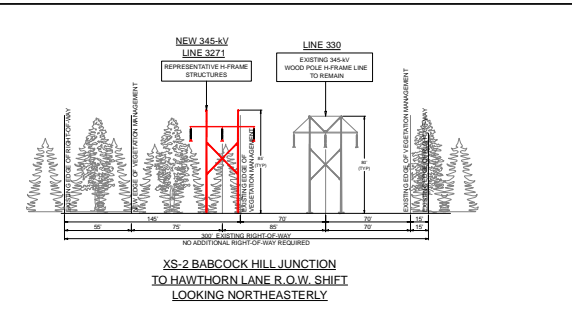
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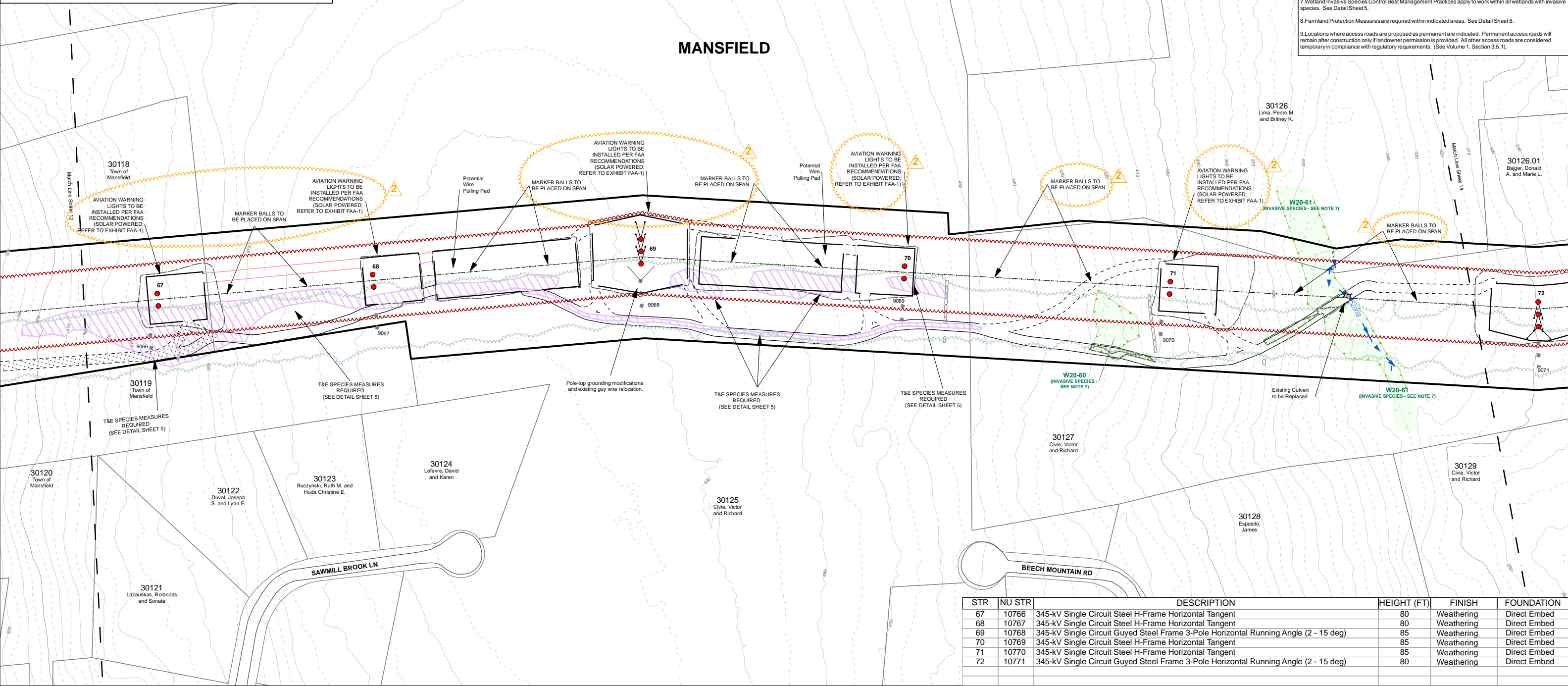
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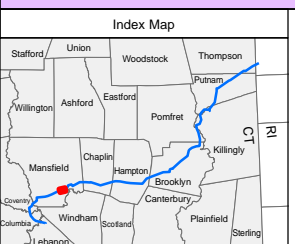
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MANSFIELD



STR	NU STR	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
67	10766	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed
68	10767	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed
69	10768	345-kV Single Circuit Guyed Steel Frame 3-Pole Horizontal Running Angle (2 - 15 deg)	85	Weathering	Direct Embed
70	10769	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed
71	10770	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed
72	10771	345-kV Single Circuit Guyed Steel Frame 3-Pole Horizontal Running Angle (2 - 15 deg)	80	Weathering	Direct Embed



T&E Species

- New Transmission Structure Pole
- New Transmission Line
- Existing Transmission Structure Pole
- Existing Distribution Lines
- Existing Distribution Structures
- New Guy Anchor
- Relocated Guy Anchor
- New Guy Wire
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- Alternate Access Road
- Permanent (See Note 9)
- Work Pad
- Limit of Disturbance
- Existing ROW
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- Town Line
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- Vegetation Clearing Limits for Construction
- Existing Tree Canopy Line
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Burns & McDonnell
SINCE 1898

DATE: M. Goetz
DESIGNED: M. Kasinskas & M. Goetz
CHECKED: M. Kasinskas

Northeast Utilities Service Co.
THE CONNECTICUT LIGHT & POWER CO.

Interstate Reliability Project Development & Management Plan

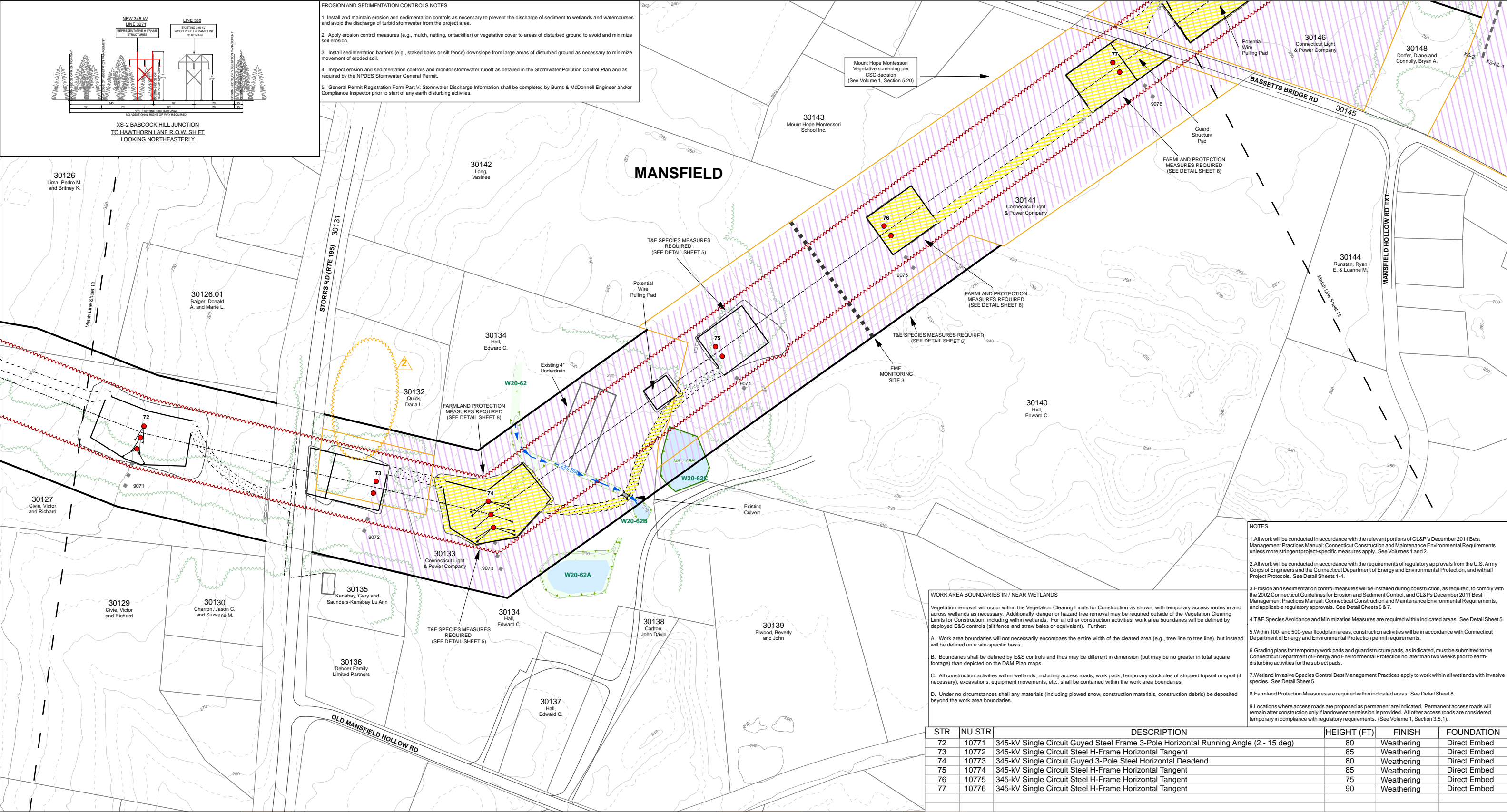
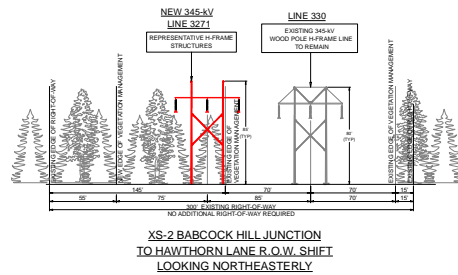
BY: M. Goetz
DATE: 8/30/2013
CHKD: M. Kasinskas
APP: M. Kasinskas
DATE: 8/30/2013

Map Sheet 13 of 66

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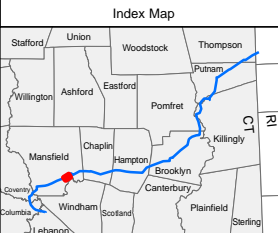
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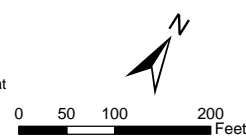
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Northeast Utilities Service Co.
THE CONNECTICUT LIGHT & POWER CO.

Interstate Reliability Project Development & Management Plan

DATE: 8/30/2013
DESIGNED: M. Kasinskas & M. Goetz
CHECKED: M. Kasinskas

Map Sheet 14 of 66

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C. All construction activities within wetlands, including access roads, work pads, temporary stockpiles of stripped topsoil or spoil (if necessary), excavations, equipment movements, etc., shall be contained within the work area boundaries.

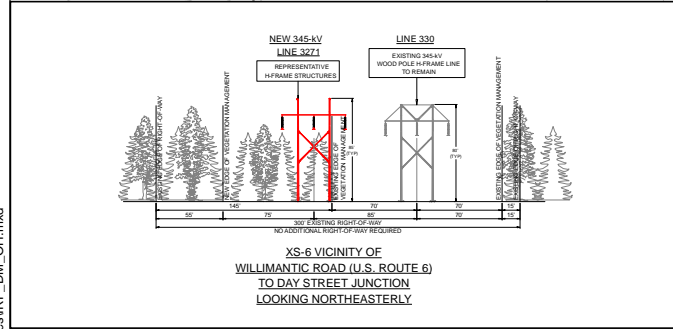
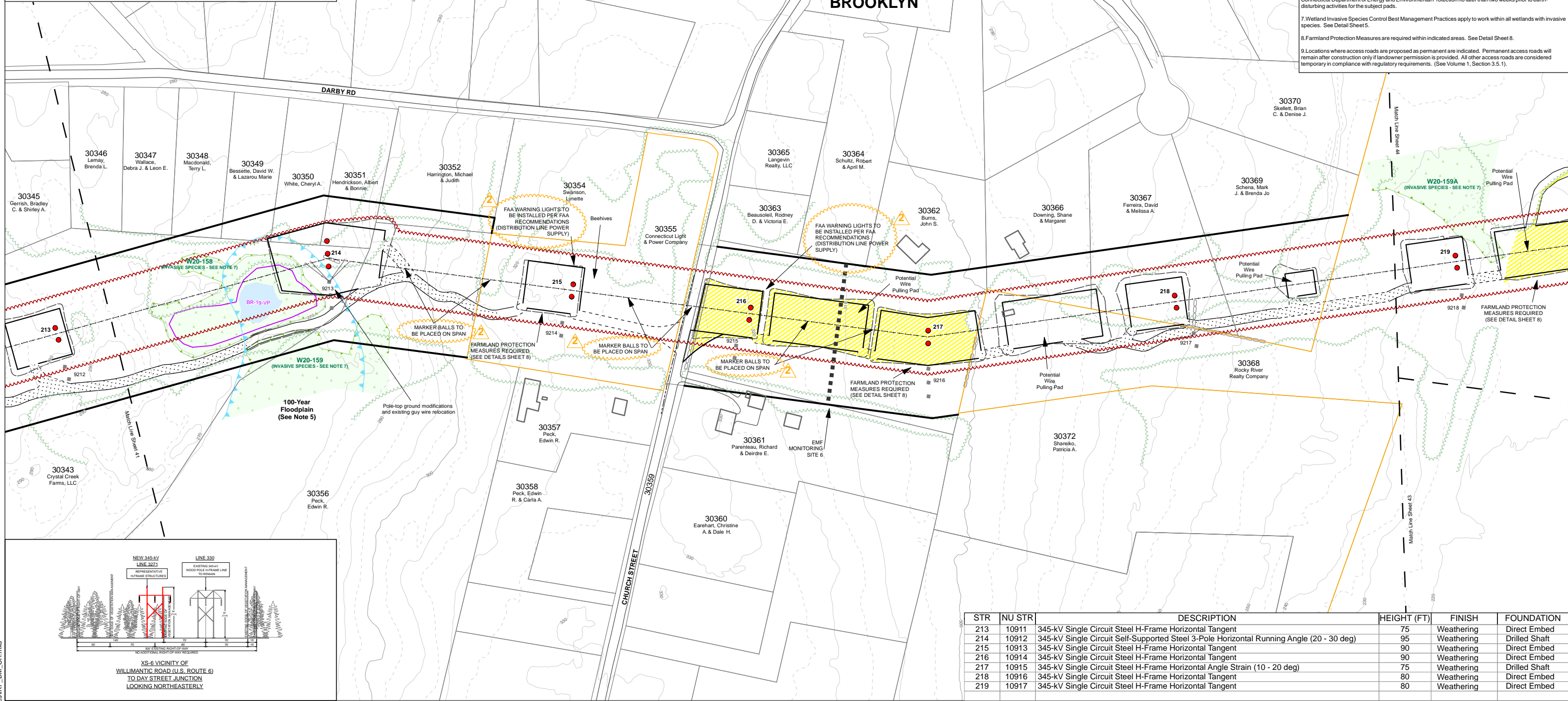
D. Under no circumstances shall any materials (including plowed snow, construction materials, construction debris) be deposited beyond the work area boundaries.

EROSION AND SEDIMENTATION CONTROLS NOTES

1. Install and maintain erosion and sedimentation controls as necessary to prevent the discharge of sediment to wetlands and watercourses and avoid the discharge of turbid stormwater from the project area.
2. Apply erosion control measures (e.g., mulch, netting, or tackifier) or vegetative cover to areas of disturbed ground to avoid and minimize soil erosion.
3. Install sedimentation barriers (e.g., staked bales or silt fence) downslope from large areas of disturbed ground as necessary to minimize movement of eroded soil.
4. Inspect erosion and sedimentation controls and monitor stormwater runoff as detailed in the Stormwater Pollution Control Plan and as required by the NPDES Stormwater General Permit.
5. General Permit Registration Form Part V, Stormwater Discharge Information shall be completed by Burns & McDonnell Engineer and/or Compliance Inspector prior to start of any earth disturbing activities.

NOTES

1. All work will be conducted in accordance with the relevant portions of CL&P's December 2011 Best Management Practices Manual, Connecticut Construction and Maintenance Environmental Requirements unless more stringent project-specific measures apply. See Volumes 1 and 2.
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4. T&E Species Avoidance and Minimization Measures are required within indicated areas. See Detail Sheet 5.
5. Within 100- and 500-year floodplain areas, construction activities will be in accordance with Connecticut Department of Energy and Environmental Protection permit requirements.
6. Grading plans for temporary work pads and guard structure pads, as indicated, must be submitted to the Connecticut Department of Energy and Environmental Protection no later than two weeks prior to earth-disturbing activities for the subject pads.
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9. Locations where access roads are proposed as permanent are indicated. Permanent access roads will remain after construction only if landowner permission is provided. All other access roads are considered temporary in compliance with regulatory requirements. (See Volume 1, Section 3.5.1).



Legend

- New Transmission Structure Pole
- New Transmission Line
- Existing Transmission Structure Pole
- Existing Distribution Lines
- Existing Distribution Structures
- New Guy Anchor
- Relocated Guy Anchor
- New Guy Wire
- Relocated Guy Wire
- Existing Access Road
- Proposed New Access Road
- Alternate Access Road
- Permanent (See Note 9)
- Work Pad
- Limit of Disturbance
- Existing ROW
- Stone Wall
- Property Lines
- NU Property
- Town Line
- Named Public Trails
- Vegetation Clearing Limits for Construction
- Existing Tree Canopy Line
- Wetland
- Open Water
- Perennial Stream
- Intermittent Stream
- Vernal Pool
- Amphibian Breeding Habitat
- T&E Species Area

NO.	DATE	REVISIONS	BY	CHK	APP	APP
2	6/27/2014	FAA Lighting and Marking Recommendations	LD	MK		
1	2/14/2014	404/401 Permit Revisions	LD	MK		

Burns & McDonnell
SINCE 1898

DATE: M. Goetz
DESIGNED: M. Kasinskas & M. Goetz
CHECKED: M. Kasinskas

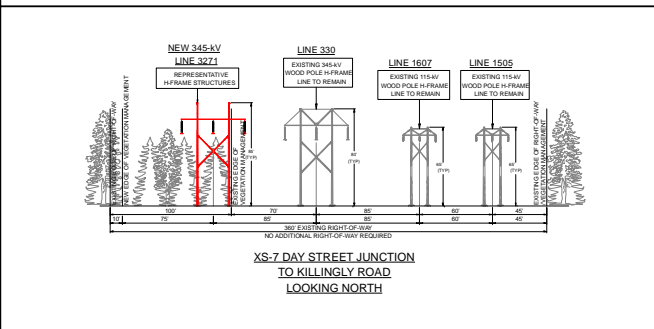
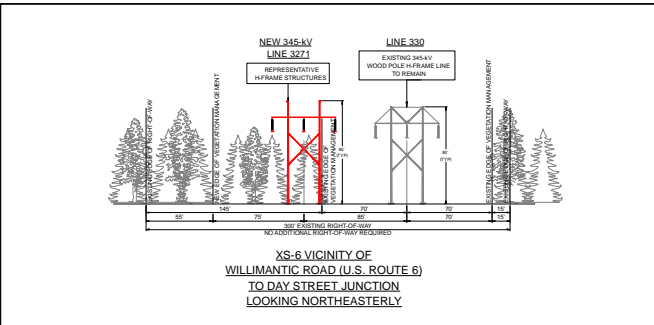
Northeast Utilities Service Co.
THE CONNECTICUT LIGHT & POWER CO.

Interstate Reliability Project Development & Management Plan

BY: CHKD APP APP
DATE: 8/30/2013 DATE DATE DATE
64261

Map Sheet 42 of 66

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EROSION AND SEDIMENTATION CONTROLS NOTES

1. Install and maintain erosion and sedimentation controls as necessary to prevent the discharge of sediment to wetlands and watercourses and avoid the discharge of turbid stormwater from the project area.
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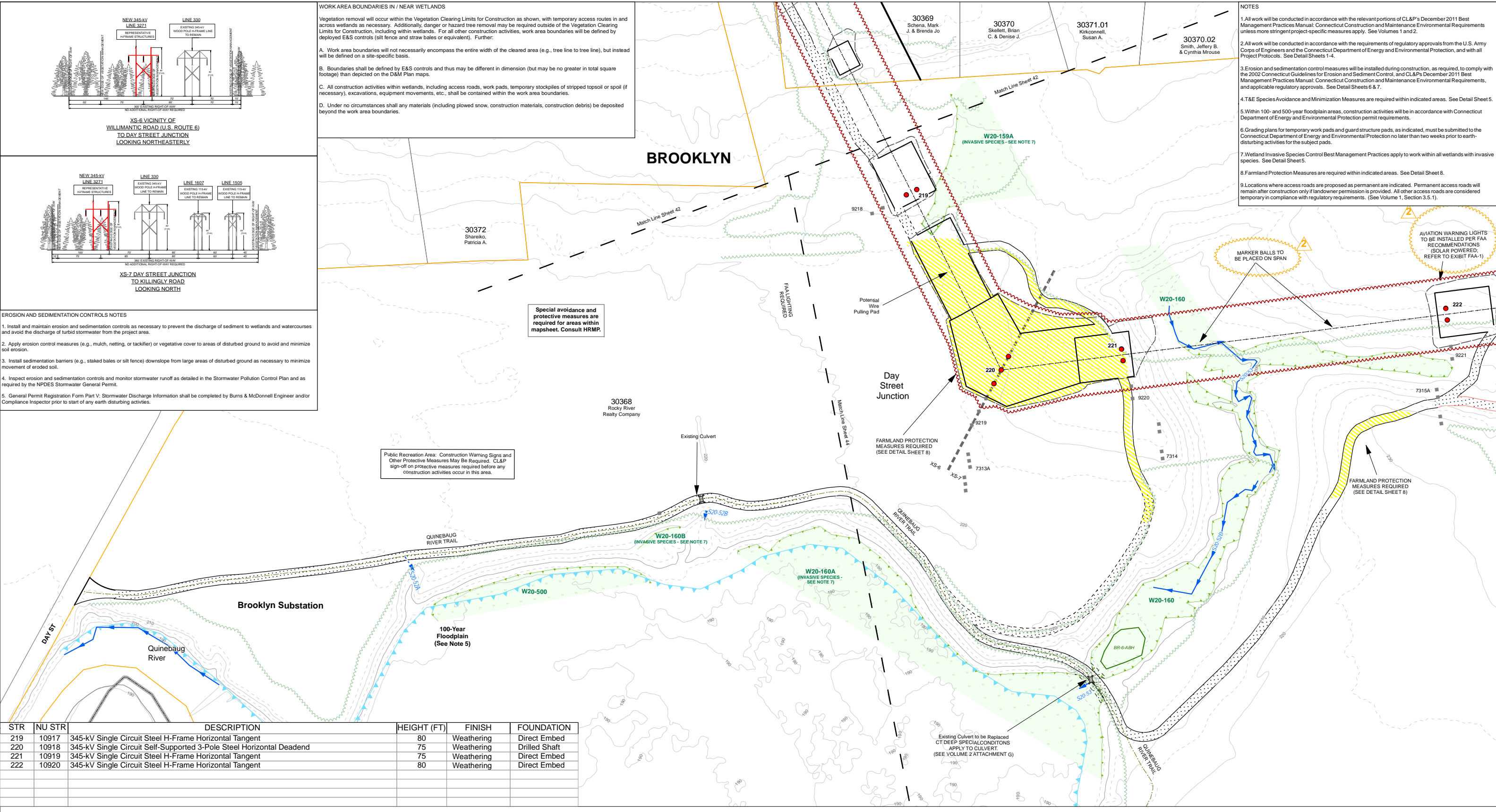
WORK AREA BOUNDARIES IN / NEAR WETLANDS

Vegetation removal will occur within the Vegetation Clearing Limits for Construction as shown, with temporary access routes in and across wetlands as necessary. Additionally, danger or hazard tree removal may be required outside of the Vegetation Clearing Limits for Construction, including within wetlands. For all other construction activities, work area boundaries will be defined by deployed E&S controls (silt fence and straw bales or equivalent). Further:

- A. Work area boundaries will not necessarily encompass the entire width of the cleared area (e.g., tree line to tree line), but instead will be defined on a site-specific basis.
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- D. Under no circumstances shall any materials (including plowed snow, construction materials, construction debris) be deposited beyond the work area boundaries.

NOTES

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5. Within 100- and 500-year floodplain areas, construction activities will be in accordance with Connecticut Department of Energy and Environmental Protection permit requirements.
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STR	NU STR	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
219	10917	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed
220	10918	345-kV Single Circuit Self-Supported 3-Pole Steel Horizontal Deadend	75	Weathering	Drilled Shaft
221	10919	345-kV Single Circuit Steel H-Frame Horizontal Tangent	75	Weathering	Direct Embed
222	10920	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed

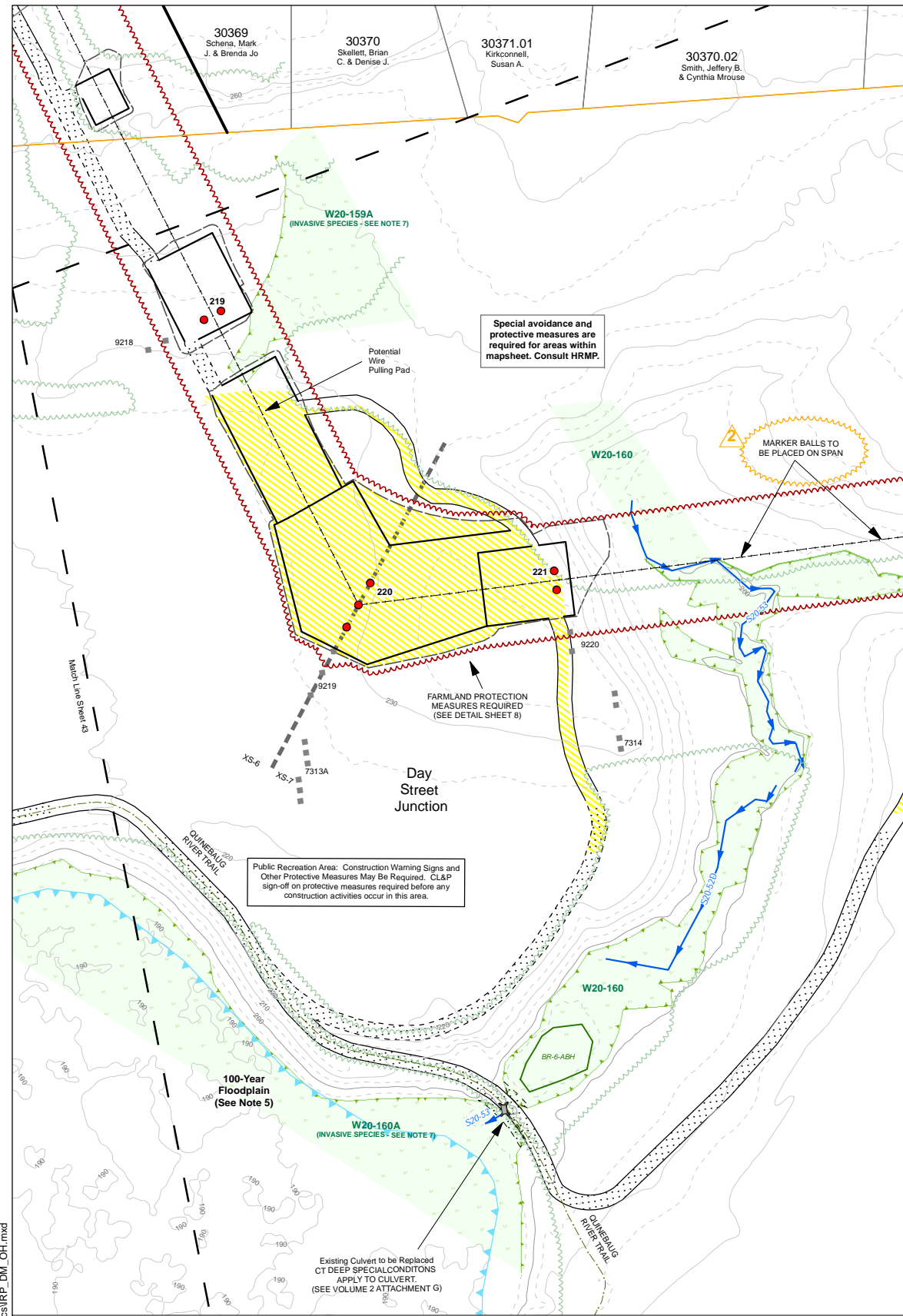


<ul style="list-style-type: none"> ● New Transmission Structure Pole --- New Transmission Line ■ Existing Transmission Structure Pole --- Existing Distribution Lines ■ Existing Distribution Structures • New Guy Anchor • Relocated Guy Anchor 	<ul style="list-style-type: none"> — New Guy Wire — Relocated Guy Wire — Existing Access Road --- Proposed New Access Road --- Alternate Access Road --- Permanent (See Note 9) □ Work Pad □ Limit of Disturbance 	<ul style="list-style-type: none"> — Existing ROW □ Stone Wall □ Property Lines □ Town Line --- Named Public Trails --- Vegetation Clearing Limits for Construction --- Existing Tree Canopy Line 	<ul style="list-style-type: none"> Wetland Open Water Perennial Stream Intermittent Stream Vernal Pool Amphibian Breeding Habitat T&E Species Area
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Scale: 0 50 100 200 Feet

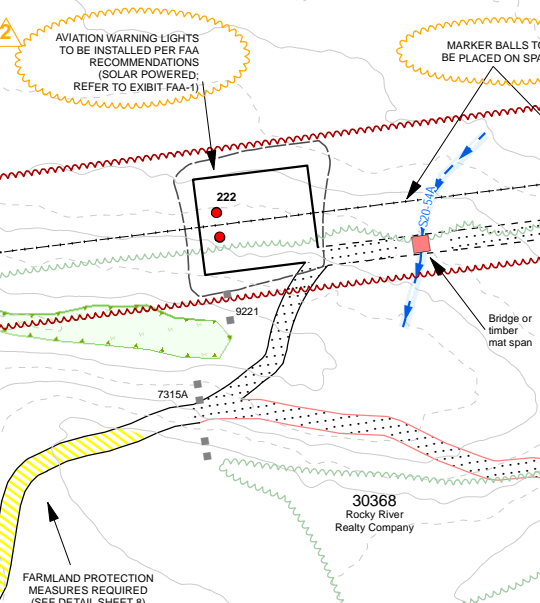
THE CONNECTICUT LIGHT & POWER CO.		Interstate Reliability Project Development & Management Plan	
2 6/27/2014 FAA Lighting and Marking Recommendations LD MK	DATE M. Goetz	BY: M. Kasinskas & M. Goetz	APP: M. Kasinskas
1 2/14/2014 404/401 Permit Revisions LD MK	CHECKED M. Kasinskas	DATE: 8/30/2013	DATE:
NO. DATE REVISIONS BY CHK APP APP	DESIGNED M. Kasinskas & M. Goetz	CHECKED M. Kasinskas	APP DATE DATE DATE
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Map Sheet 43 of 66			

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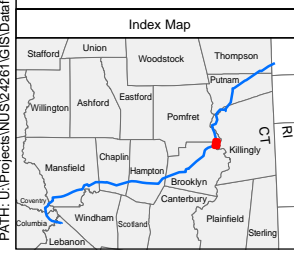
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 9. Locations where access roads are proposed as permanent are indicated. Permanent access roads will remain after construction only if landowner permission is provided. All other access roads are considered temporary in compliance with regulatory requirements. (See Volume 1, Section 3.5.1).

- WORK AREA BOUNDARIES IN / NEAR WETLANDS**
- Vegetation removal will occur within the Vegetation Clearing Limits for Construction as shown, with temporary access routes in and across wetlands as necessary. Additionally, danger or hazard tree removal may be required outside of the Vegetation Clearing Limits for Construction, including within wetlands. For all other construction activities, work area boundaries will be defined by deployed E&S controls (silt fence and straw bales or equivalent). Further:
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- EROSION AND SEDIMENTATION CONTROLS NOTES**
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222	10920	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed
223	10921	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed
224	10922	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed
225	10923	345-kV Single Circuit Steel H-Frame Horizontal Tangent	70	Weathering	Direct Embed



- New Transmission Structure Pole
- New Transmission Line
- Existing Transmission Structure Pole
- Existing Distribution Lines
- Existing Distribution Structures
- New Guy Anchor
- Relocated Guy Anchor
- New Guy Wire
- Relocated Guy Wire
- Existing Access Road
- Proposed New Access Road
- Alternate Access Road
- Permanent (See Note 9)
- Work Pad
- Limit of Disturbance
- Existing ROW
- Stone Wall
- Property Lines
- NU Property
- Town Line
- Named Public Trails
- Vegetation Clearing Limits for Construction
- Existing Tree Canopy Line
- Wetland
- Open Water
- Perennial Stream
- Intermittent Stream
- Vernal Pool
- Amphibian Breeding Habitat
- T&E Species Area

NO.	DATE	REVISIONS	BY	CHK	APP	APP
2	6/27/2014	FAA Lighting and Marking Recommendations Structure 225 Height Reduction	LD	MK		
1	2/14/2014	404/401 Permit Revisions	LD	MK		

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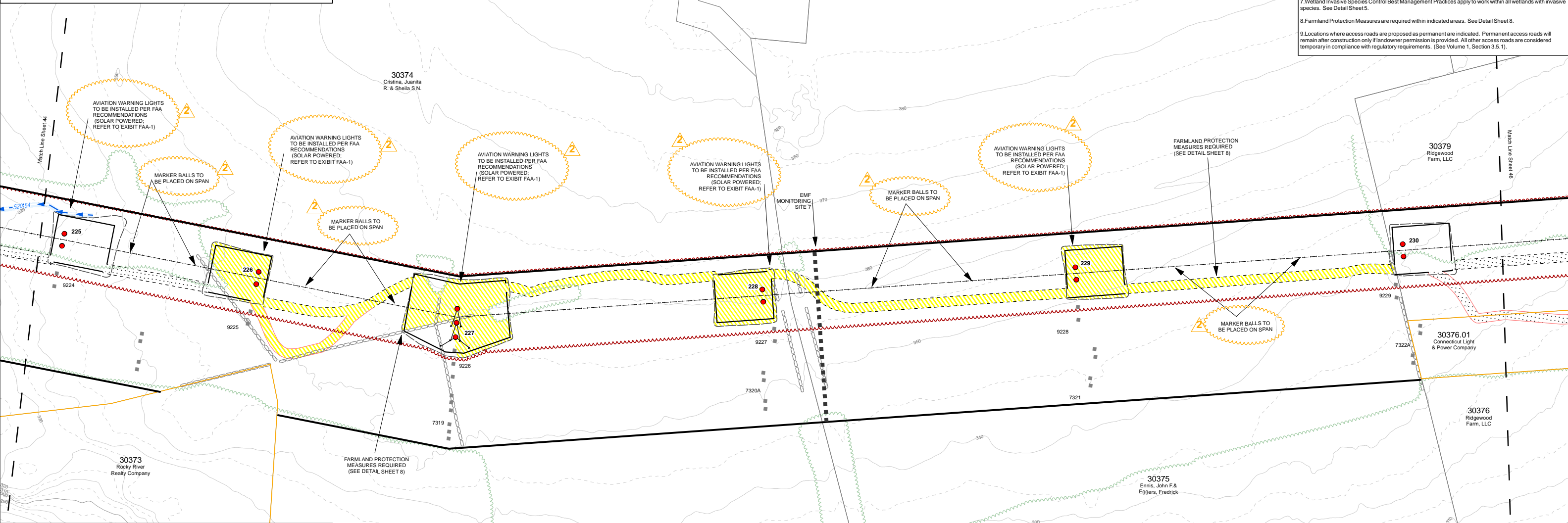
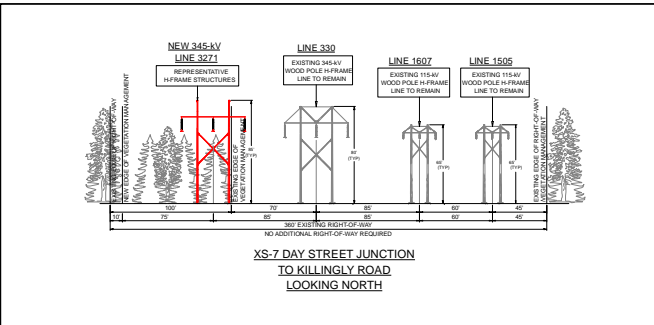
Northeast Utilities Service Co.
THE CONNECTICUT LIGHT & POWER CO.

Interstate Reliability Project Development & Management Plan

DATE	DETAILED
M. Kasinskas & M. Goetz	M. Goetz
CHECKED	
M. Kasinskas	

BY: CHKD APP APP
DATE: 8/30/2013 DATE DATE DATE
64261

Map Sheet 44 of 66



WORK AREA BOUNDARIES IN / NEAR WETLANDS

Vegetation removal will occur within the Vegetation Clearing Limits for Construction as shown, with temporary access routes in and across wetlands as necessary. Additionally, danger or hazard tree removal may be required outside of the Vegetation Clearing Limits for Construction, including within wetlands. For all other construction activities, work area boundaries will be defined by deployed E&S controls (silt fence and straw bales or equivalent). Further:

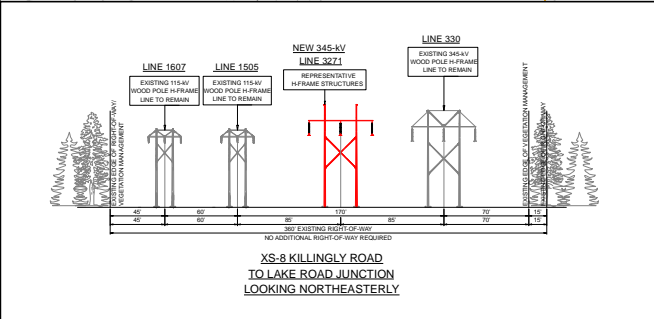
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STR	NU STR	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
225	10923	345-kV Single Circuit Steel H-Frame Horizontal Tangent	70	Weathering	Direct Embed
226	10924	345-kV Single Circuit Steel H-Frame Horizontal Tangent	62	Weathering	Direct Embed
227	10925	345-kV Single Circuit Guyed Steel 3-Pole Horizontal Running Angle (10 - 20 deg)	75	Weathering	Direct Embed
228	10926	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed
229	10927	345-kV Single Circuit Steel H-Frame Horizontal Tangent	90	Weathering	Direct Embed
230	10928	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed



Legend

- New Transmission Structure Pole
- New Transmission Line
- Existing Transmission Structure Pole
- Existing Distribution Lines
- Existing Distribution Structures
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- Wetland
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- Vernal Pool
- Amphibian Breeding Habitat
- T&E Species Area

Active Farmland Area

2	6/27/2014	FAA Lighting and Marking Recommendations Structures 225 and 226 Height Reduction	LD	MK																
1	2/14/2014	404/401 Permit Revisions	LD	MK																
NO.	DATE	REVISIONS	BY	CHK	APP	APP	DESIGNED	CHECKED	DATE	CHKD	APP	DATE	APP	DATE	DATE	DATE	DATE	DATE	DATE	DATE

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Northeast Utilities Service Co.
THE CONNECTICUT LIGHT & POWER CO.

Interstate Reliability Project Development & Management Plan

DATE: 8/30/2013
BY: M. Kasinskas & M. Goetz
CHECKED: M. Kasinskas

Map Sheet 45 of 66

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