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April 28, 2017

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

**Re: Docket No. 424: Interstate Reliability Project – Final Report**

Dear Chairman Stein:

The Connecticut Light and Power Company doing business as Eversource Energy (Eversource) hereby provides its Final Report for the Connecticut portion of the Interstate Reliability Project (Project) to the Connecticut Siting Council (Council). This Final Report is submitted in accordance with the Regulations of Connecticut State Agencies (RSCA), Section 16-50j-62(c); the Council's Decision and Order regarding the Project; and the Council's approval of the Development and Management (D&M) Plans for the Project's new 345-kilovolt (kV) transmission lines and modifications to Eversource's existing Card Street and Killingly substations and the Lake Road switching station.

Pursuant RSCA Section 16-50j-62(c), the Final Report identifies the following:

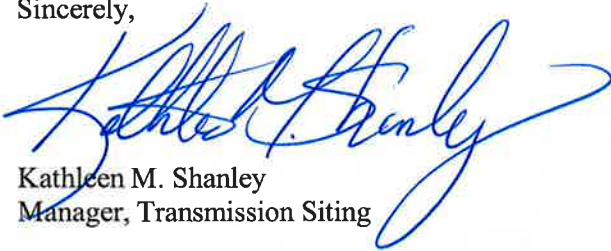
1. All agreements with abutters or other property owners regarding special maintenance precautions;
2. Significant changes to the D&M plans that were required because of the property rights of underlying and adjoining owners or for other reasons;
3. The location of construction materials which have been left in place including, but not limited to, culverts, erosion control structures along watercourses and steep slopes, and corduroy roads in regulated wetlands;
4. The locations of areas where special planting and reseeding have been performed; and
5. The actual construction cost of the facility, including, but not limited to, the following costs:
  - a. Clearing and access;
  - b. Construction of the facility and associated equipment;
  - c. Rehabilitation; and
  - d. Property acquisition for the site or access to the site.

Chairman Stein  
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As explained in the December 7, 2016 Notice of Project Completion the project construction work was deemed complete as of that date. Eversource is hereby providing the Final Report on the Project. Along with this filing, Eversource is submitting a motion for a Protective Order regarding cost component information for the Interstate Reliability Project.

Should you or other Council members have any questions regarding this Final Report, please do not hesitate to contact me via e-mail at [kathleen.shanley@eversource.com](mailto:kathleen.shanley@eversource.com) or telephone at (860) 728-4527.

Sincerely,



Kathleen M. Shanley  
Manager, Transmission Siting

Encl.



**INTERSTATE RELIABILITY PROJECT  
DOCKET 424**

**FINAL REPORT  
*to the*  
CONNECTICUT SITING COUNCIL**

**April 28, 2017**

***Prepared by:***

The Connecticut Light and Power Company doing business as Eversource Energy

# EVERSOURCE

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- Attachment 3:** The location of construction materials which have been left in place including, but not limited to, culverts, erosion control structures along watercourses and steep slopes, and corduroy roads in regulated wetlands;
- Attachment 4:** The locations of areas where special planting and reseeding have been performed; and
- Attachment 5:** The actual construction cost of the facility, including, but not limited to, the following costs:
- a. Clearing and access;
  - b. Construction of the facility and associated equipment;
  - c. Rehabilitation; and
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## INTRODUCTION AND SUMMARY OF THE PROJECT

The Connecticut Light and Power Company, doing business as Eversource Energy (Eversource), along with The Narragansett Electric Company and New England Power Company (both of which are wholly-owned subsidiaries of National Grid USA [National Grid]), constructed and are presently operating and maintaining approximately 75 miles of new 345-kilovolt (kV) electric transmission lines and related modifications and improvements to existing 345-kV and 115-kV transmission lines and substation and switching station facilities in northeastern Connecticut, northwestern Rhode Island, and south-central Massachusetts (refer to Figure A). These electric transmission system modifications, referred to as the Interstate Reliability Project (Project), improve the bulk power electric transmission system in Southern New England and achieved future compliance with applicable national and regional reliability standards and criteria.

Eversource's portion of the Project, which traverses 11 towns in northeastern Connecticut (refer to Figure B), consists of the following facilities:

- Approximately 36.8 miles of new overhead 345-kV electric transmission lines extending between Eversource's Card Street Substation in the Town of Lebanon, Lake Road Switching Station in the Town of Killingly, and the Connecticut/Rhode Island border (in the Town of Thompson). The new 345-kV overhead transmission lines (designated in the Eversource system as the 3271 Line and the 341 Line) are aligned adjacent to other 345-kV overhead transmission lines that occupy the existing Eversource rights-of-way (ROWs).<sup>1</sup>
- Related equipment additions and modifications at Eversource's existing Card Street Substation, Lake Road Switching Station, and Killingly Substation (in the Town of Killingly).

On December 23, 2011, Eversource submitted to the Connecticut Siting Council (Council, CSC) an Application for a Certificate of Environmental Compatibility and Public Need for the Connecticut portion of the Project (Council Docket No. 424). After public meetings, evidentiary hearings, and related technical reviews, the Council approved the Connecticut portion of the Project on December 27, 2012.

Subsequently, in accordance with the conditions of the Council's approval, Eversource prepared Development and Management (D&M) Plans for the Project that also were approved by the Council. Project construction, which was performed pursuant to the Council's requirements (D&M Plans) and the regulations of other involved federal and state agencies, commenced in the fourth quarter of 2013

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<sup>1</sup> The new 3271 Line extends approximately 29.3 miles from Card Street Substation to Lake Road Switching Station adjacent to Eversource's existing 330 Line, whereas the new 341 Line traverses approximately 7.5 miles from Lake Road Switching Station to the Connecticut / Rhode Island border adjacent to Eversource's 3348 Line and then 347 Line.

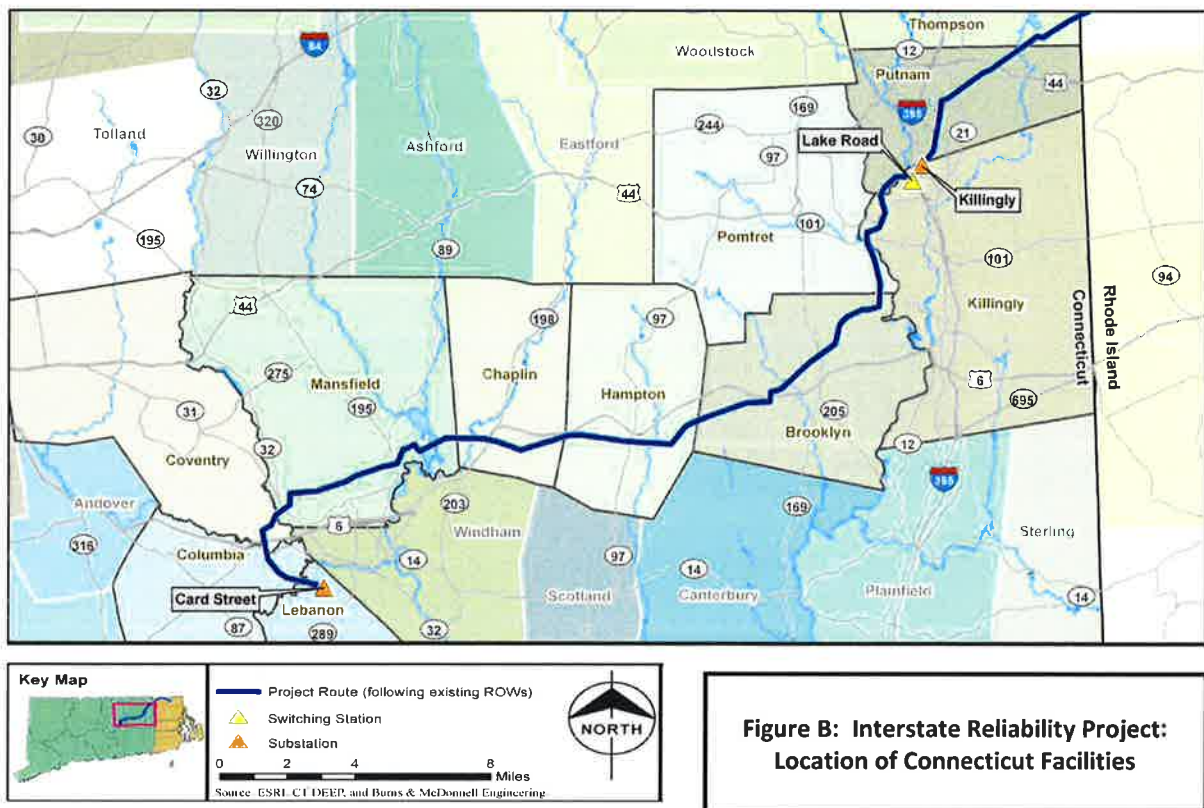
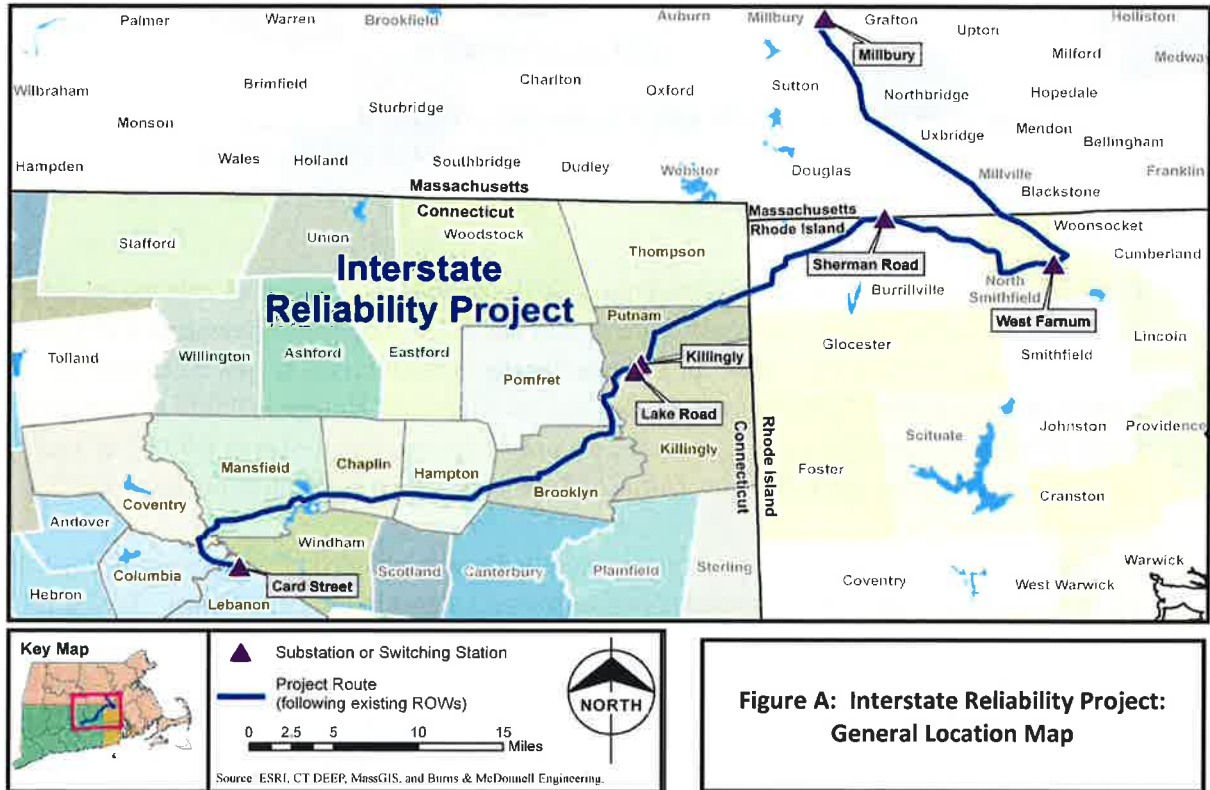
with the initiation of preliminary work at Card Street Substation. Primary transmission line construction and station modification work started in March 2014.

The new 345-kV transmission lines and related facilities were placed into service on December 18, 2015. ROW restoration/stabilization continued into the late spring of 2016 and, as of May 31, 2016, Eversource determined that the areas affected by Project construction had achieved rehabilitation or stabilization. To verify the success of the ROW rehabilitation and in accordance with the Project's regulatory requirements, the Project ROWs were monitored by an Eversource environmental inspector for an additional three months, through August 31, 2016.

This Final Report to the Council regarding the Project provides information in accordance with the Regulations of Connecticut State Agencies (RSCA), Section 16-50j-62(c); the Council's Decision and Order in Docket No. 424 regarding the Project; and Section 7.3 (Table 7-1) of the Project's D&M Plans. In particular, the Final Report identifies the following:

1. All agreements with abutters or other property owners regarding special maintenance precautions;
2. Significant changes to the D&M plans that were required because of the property rights of underlying and adjoining owners or for other reasons;
3. The location of construction materials which have been left in place including, but not limited to, culverts, erosion control structures along watercourses and steep slopes, and corduroy roads in regulated wetlands;
4. The locations of areas where special planting and reseeding have been performed; and
5. The actual construction cost of the facility, including, but not limited to, the following costs:
  - a. Clearing and access;
  - b. Construction of the facility and associated equipment;
  - c. Rehabilitation; and
  - d. Property acquisition for the site or access to the site.





## ATTACHMENT 1

### AGREEMENTS WITH ABUTTERS OR OTHER PROPERTY OWNERS REGARDING SPECIAL MAINTENANCE PRECAUTIONS

For the construction and operation of the Project facilities, Eversource used its existing easements and fee-owned properties and, as necessary, entered into real estate easement agreements with property owners for use of private properties. In addition, for the installation of the new 3271 Line across Mansfield Hollow State Park, Mansfield Lake, and the Mansfield Hollow Wildlife Management Area (town of Mansfield and Chaplin), Eversource obtained additional right-of-way (ROW) by means of a grant of easement from the U.S. Army Corps of Engineers, which owns these public properties.

In some cases, landowner / abutter agreements for the Project included provisions pertaining to ROW maintenance that augment those included in Eversource's standard utility easement. Tables 1-1 and 1-2 summarize the agreements that have a bearing on ROW maintenance. Specifically, Table 1-1 identifies agreements regarding vegetation preservation, landscape screening, fencing, and stone wall replacement within the Project ROWs. Table 1-2 identifies the locations where Eversource installed gates or other barriers across the ROWs or along off-ROW access roads.

**Table 1-1: Agreements Regarding Vegetation Preservation / Screening, Fencing, and Stone Walls**

Line List Number / Property Owner	Town	Agreement
30028 (Martin)	Columbia	Preserve oak tree
30036 (Hegerner)	Columbia	Preserved trees as flagged with Eversource prior to construction  Installed privacy screening in vicinity of driveway along ROW  Re-paved driveway post-construction.
30037 (Mador)	Columbia	Re-paved driveway post-construction
30076 (Sherwood)	Coventry	Preserved select trees and protected stone wall
30125 (Civie)	Mansfield	Tree agreement for softwoods on ROW
30167 (Manizza)	Mansfield	Landscape plantings
30175 (Weitz)	Mansfield	Landscape plantings (vicinity Structure 89 work pad); stone terracing remains per landowner
30176	Mansfield	Bedlam Road area: do not control autumn olive, rose, or honeysuckle to help prevent ATV access along ROW to conservation property
30183 (Bullard)	Chaplin	Do not treat or cut honeysuckle to extent possible. Rebuild stone wall.
30229 (Stearns)	Chaplin	Rebuilt / preserve stone wall
30231 (Geromin)	Chaplin	Rebuilt / preserve stone wall
30233 (DeLeone)	Hampton	Repair rock walls and portion of hog pen fence
30234 (Drouin)	Hampton	Preserve large bush between access road off South Brook Road, rebuild stone walls
30248 (Caya)	Hampton	Rebuild stone wall
30252 (Shaw)	Hampton	Rebuild stone wall
30280 (Carver)	Brooklyn	Restore fence; possible plans for Christmas tree farm along ROW

Line List Number / Property Owner	Town	Agreement
30297 (Ozimek)	Brooklyn	Landscape screening
30313 (Sevigny)	Brooklyn	Rebuilt stone wall
30334 (Sokolowski)	Brooklyn	Rebuilt stone wall
30340 (Rosenberg)	Brooklyn	Restoration plantings
30350 (Rock)	Brooklyn	Repair fence
30351 (Hendrickson)	Brooklyn	Grass mix used to reseed lawn area rather than traditional ROW seed mix
30366 (Downing)	Brooklyn	Landscape plantings
30362 (Burns)	Brooklyn	Rebuilt stone wall
30369 (Schena)	Brooklyn	Landscape plantings
30375 (Ennis)	Pomfret	Rebuilt stone wall
30389 (Lyons)	Killingly	Replace horse fencing in original locations, after temporary removal to allow work pad / construction activities.
31032 (O'Toole)	Putnam	Rebuilt stone wall
31041 (Racine)	Putnam	Rebuilt stone wall
31090 (Belliveau)	Putnam	Rebuilt stone wall
31091 (Boguszewski)	Putnam	Rebuilt stone wall

**Table 1-2: Gates / Barriers Installed along ROW or off-ROW Access Roads**

<b>D&amp;M Mapsheet Number</b>	<b>Town</b>	<b>Nearest Structure Numbers</b>	<b>Line List Number</b>	<b>Gate / Barrier Description</b>
1	Lebanon	5-6	30004	Upland, near Airline State Park Trail; private property abutting state trail. Gate along existing permanent access road.
2	Columbia	10-11	30018 (Eversource)	20-foot-wide gate along access road (which was pre-existing), directly north of Cards Mill Road. Area is upland.
4	Columbia	18-19	30028 / 30029	Gate is in upland along permanent on-ROW access road (on south side of Old Willimantic Road. Gate placed near intersection of access road and Old Willimantic Road, within the ROW.
4	Columbia	20 - 21	30037 (Mador)	20-foot-wide double swing gate across permanent access road in upland area.
7	Coventry	32-33	30075 (Town of Coventry)	Gate and barrier installed in an upland area east of Flanders River Road on pre-existing, permanent access road along ROW on Town-owned property.
7	Mansfield	36-37	30081 (Tricket)	20-foot-wide double swing gate across permanent access road.
8	Mansfield	43-44	30096 (Town of Mansfield / Callahan)	Installed 20-foot-wide gate and post-and-wire barrier across ROW to deter ATV access and trespassing.
8	Mansfield	44	30099, 30100 (Town of Mansfield / Ding)	20-foot-wide gate across on-ROW access road in upland area and barrier across ROW between limits of clearing, all adjacent to northeast side of Highland Road.
14	Mansfield	72	30127 (Civie)	20-foot-wide double-swing gate along a permanent access road extending west from Storrs Road (State Route 195). Area is upland.
17	Mansfield	88-89	30168 (Eversource)	Gate is in upland along existing access road that intersects with and is west of Bassetts Bridge Road. Gate placed within welded wire fence, at approximate location of previous gate, along permanent access road on Eversource property. Gate intended to limit vehicular access into Mansfield Hollow WMA and Mansfield Hollow Lake from Bassetts Bridge Road (east).
17	Mansfield	91	30177 (Rowett)	20-foot-wide gate adjacent to east side of South Bedlam Road, within a woven wire fence, to prevent access along ROW to the east. Gate located in an upland area and is installed to allow access for ROW maintenance. Fence set back approximately 15 feet from road.
18	Chaplin	92-93	30179.01 (Devaux)	Gate installed at property line with Bullard.
18	Chaplin	92-93	30183 (Bullard)	Gate installed in upland along existing rock wall that defines western portion of Mr. Bullard's property.
19	Chaplin	101 -102	30191 (Slowik)	20-foot-wide gate across access road extending west off U.S. Route 6. Access road is in upland.

D&M Mapsheet Number	Town	Nearest Structure Numbers	Line List Number	Gate / Barrier Description
21	Chaplin	N/A, Off-ROW access road	30219 (Aubert)	Gate in upland along an off-ROW gravel access road (Fisk Road), off Chewink Road. Gate installed near intersection of access road with Chewink Road, in an upland area.
23	Hampton	124	30233 (DeLeon)	Installed hog fencing removed during construction. Fencing consists of 60-inch woven wire horse fence set on 5/8 x 8-inch round treated wood posts. Fencing installed for paddock in general area of former pull pad and northwestern part of former work pad for Structure 124.
23 / 24	Hampton	124	30234 (Drouin)	Gate installed in upland area along on-ROW access road from South Brook Road. The access road along which the gate is installed is per a minor D&M Plan change that was included in the Project's May 2014 CSC progress report (filed June 5, 2014). Access road modification and permanent road was endorsed by landowners and the CSC.
27	Hampton	143 - 144	30259 (Bigelow Howard Valley Game Club)	Gate installed on east side of South Bigelow Road, on pre-existing access road to agricultural field. The gate is in a 100-year FEMA floodplain associated with Cedar Swamp Brook and is needed to protect unauthorized access to the farmlands to the east.
32	Brooklyn	166	30275 (Congdon)	Gate installed along permanent on-ROW access road at Stetson Road.
	Brooklyn	167	30280 (Carver)	Gate installed along permanent access road
34	Brooklyn	178	30290 (Szela)	Installed gate across permanent access road west of Windham Road. Gate intended to limit access along ROW to agricultural areas located to the west.
35	Brooklyn	179	30298 (Ozimek)	Gate installed along permanent access road on eastside of Windham Road. This area is upland.
36	Brooklyn	186 -187	30313 (Sevigny)	20-foot-wide double swing gate installed along existing permanent access road west of Laurel Hill Road, leading to Structure 186.
37	Brooklyn	190, 191	30318 Eastern CT Conservation District), 30320 (Larkin)	Gates installed along permanent access roads on either side of Wolf Den Road.
38	Brooklyn	199	30331 (Nielson)	Installed gate along off-ROW access road to the east of State Route 169.
38	Brooklyn	Off-ROW	30335 (Sansoucy)	Gate along off-ROW access road.
40	Brooklyn	208	30340 (Rosenberg)	Installed double-wide swing gate along upland access road off Barrett Hill Road.
48	Killingly	243	30389 (Lyons)	Gate installed along permanent on-ROW access road in upland west of Lake Road.

<b>D&amp;M Mapsheet Number</b>	<b>Town</b>	<b>Nearest Structure Numbers</b>	<b>Line List Number</b>	<b>Gate / Barrier Description</b>
47	Pomfret	238	30381 (Eversource)	Installed 20-foot-wide double swing gate in an upland area along pre-existing permanent access road near canoe/boat launch parking site off State Route 101.
48	Killingly	244	30397 (Eversource)	Installed 20-foot-wide double swing gate on east side of Lake Road, along permanent access road on Eversource property. All in upland area.
49	Killingly	251	30406 (Eversource)	Installed 20-foot-wide double swing gate on northeast side of Lake Road, on Eversource property, along existing access road. Second gate installed along permanent access road to Structure 252, replacing an existing gate. New gate in upland area. Both gates installed at request of property owner (Berk) to limit access from Lake Road, along Eversource property, to Berk property.
56	Putnam	283	31024 (JT Farms)	Gate is 20-24-foot-wide (double swing) and is installed in an upland, along a pre-existing permanent access road leading to an agricultural field. Access road is east of and intersects with Killingly Avenue (State Route 12).
57	Putnam	289	31027 (Rondeau)	Gate and barrier, Heritage Road.
60	Putnam	301	31057 (Logan)	Installed 20-foot-wide gate across permanent access road in upland area (gate is in stonewall barway off south side of Fox Road).
64	Thompson	326	31109.02 (Eversource)	Gate installed along permanent access road in upland area, on southwest side of Elmwood Hill Road.
64	Thompson	327	31112.02 (Eversource)	Gate installed along permanent access road east of Elmwood Hill Road.

## **ATTACHMENT 2**

### **SIGNIFICANT CHANGES TO THE D&M PLANS**

During the construction of the Project, Eversource requested and the Council approved various significant changes to the transmission line and station D&M plans. Table 2-1 summarizes these changes, including the rationale for the change, date requested, and date approved by the Council.

The majority of the significant D&M Plan changes pertain to site-specific modifications to work hours in order to facilitate the completion of defined construction tasks. All of the significant D&M Plan changes were requested and approved between October 17, 2013 and May 27, 2015. No significant D&M Plan changes were required during the remainder of Project construction and restoration.



**Table 2-1: Interstate Reliability Project (Docket 424): Significant D&M Plan Changes**

Change Notice	DESCRIPTION OF SIGNIFICANT CHANGE	DATE SUBMITTED to CSC	DATE APPROVED BY CSC
Change Notice 1	<p><b>Staging Areas.</b> Material laydown sites at 79 and 87 Boston Post Road in Windham and at 891 North Main Street, Killingly; also 6 and 8 Industrial Park Drive, North Windham</p> <p><b>Staging Area Conditions.</b> At material laydown sites at 79 and 87 Boston Post Road in Windham and at 891 North Main Street, Killingly, do not use heavy equipment prior to 6:30 AM</p> <p><b>Staging Area Conditions.</b> At 87 Boston Post Road in Windham: (a) Sweep property for eastern hognose snake before any activities or other use related to Interstate; (b) Install exclusionary silt fence around entire laydown yard to ensure that eastern hognose snake cannot enter the site; and (c) adhere to T&amp;E mitigation measures for eastern hognose snake in the D&amp;M Plan</p>	10/17/2013	11/4/2013
Regulatory update	<p><b>Provision of CT DEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activity.</b> New (effective October 2013) General Permit submitted as update to D&amp;M Plan, Volume 2, Attachment F, replacing previous CT DEEP version of the General Permit.</p>	12/6/2013	N/A
Regulatory update	<p><b>Provision of Updated D&amp;M Plan Volume 3 Maps to Reflect USACE / CT DEEP Permit and Technical Plan Revisions, respectively, and Incorporation of Modifications Previously Submitted to and Approved by the CSC.</b></p>	2/19/2014	N/A
Change Notice 2	<p><b>Staging Sites in Brooklyn (East of State Route 169) and Two Contractor Staging Areas / Yards (Tri-State Drilling) in Towns of Windham and Putnam.</b> CSC approved staging areas as follows: (1) several small staging areas along off-ROW access road that extends north of Structures 200 and 201, and intersects with State Route 169 (Brooklyn). Sansoucy is property owner; (2) Tri-State Yard at 388 River Road in Putnam; and (3) Tri-State Yard along Plains Road in Windham.</p>	2/20/2014	2/24/2014
Change Notice 3	<p><b>Extended construction work hours during outage work.</b> CSC approval of temporary extended hours / Sunday work as follows to allow work during CONVEX-approved outage periods: (1) March 17 through 27, including work on Sunday (March 23) at Card Street Substation in Lebanon; (2) April 14 through April 26, including Sunday (April 20) and including extended work hours as necessary beyond the Council-approved 10-hour work day to allow modifications to the existing 347 Line to support the installation of the new 345-kV Line in Putnam and Thompson; and (3) May 31 through June 6, including work on Sunday (June 1) and including extended work hours beyond the Council-approved 10-hour workday to install new 345-kV line conductors between Lake Road Switching Station and Killingly Substation in Killingly.</p>	2/26/2014	2/26/2014
Change Notice 4	<p><b>ROW Access Road Shift (Structures 7-10), Columbia.</b> Shift in location of on-ROW access road by 50-75 feet on three parcels (LL #s 30010, 30011, and 30014) and change in access road designation from permanent to temporary between Structures 7 and 8. Proposed shift aligns access road closer to wetland W20-7, but appropriate E&amp;S controls will be installed to protect this water resource. A portion of the temporary access road will be in the 100-year floodplain of the Ten Mile River; contractor must anchor timber mats (if used) for the portion of this access road in the 100-year floodplain.</p>	3/7/2014	3/10/2014

Change Notice	DESCRIPTION OF SIGNIFICANT CHANGE	DATE SUBMITTED to CSC	DATE APPROVED BY CSC
Change Notice 5	<u>Increase in Height of Structure 36 (Trickett)</u> . Increase in height of Structure 36 from 110 feet to 125 feet to achieve required 46-foot conductor clearance above the New England Central RR.	3/20/2014	3/24/2014
Change Notice 6	<u>Tri-State Drilling Staging Area / Yard: 360 Plains Road, Windham</u> . Request for use of an additional staging area / yard located in existing sand/gravel pit and consisting of approximately 11 acres.	3/25/2014	3/27/2014
Change Notice 7	<u>Temporary Change to Work Hours for Switching Through CONVEX to Energize Temporary Bus Work at Card Street Substation</u> . CL&P e-mail request to work extended hours at Card Street Substation to complete switching work at end of approved temporary outage.	3/27/2014	3/27/2014
Change Notice 8	<u>Mapping correction to limits of vegetation clearing limits line: Structure 6538A, Town of Columbia</u> . Vegetation clearing line was incorrectly depicted as extending through the pad for this 69 kV pad.	4/2/2014	4/3/2014
Regulatory update	<u>REGULATORY UPDATE: Provision of 11 Updated D&amp;M Plan Volume 3 Maps to Make Corrections in Vegetation Clearing Limits to be Consistent with USACE / CT DEEP Permit and Technical Plan Revisions</u> . (Updates are to correct GIS mapping errors on D&M Plan maps, compared to USACE and CT DEEP maps)	4/3/2014	N/A
Change Notice 9	<u>Modification to in-ROW Access Roads and Elimination of Pulling Pad, Town of Mansfield</u> . Affects ROW between Structures 39 and 42, Town of Mansfield, including modifications in-ROW for Highland Ridge Golf Driving Range	4/8/2014	4/14/2014
Change Notice 10	<u>Extended construction work hours to complete concrete foundation: Structure 271R, Vicinity of Killingly Substation</u> . One-time approval of extension of work hours beyond 10-hour limit to complete work on Structure 271R.	4/17/2014	4/17/2014
Change Notice 11	<u>Modification of Exclusionary Snake Fencing at PAR's 87 Boston Post Road Staging Area</u> . Request to Leave Two Gaps in Silt Fence (erected for snake exclusion) to allow dirt bike / ATV traffic.	4/22/2014	4/25/2014
Change Notice 12	<u>Request for Additional PAR Contractor Yard, 4 Nora Lane, Pomfret. Use of 5.3 acre contractor yard off Killingly Road in Town of Pomfret</u> .	4/24/2014	4/28/2014
Change Notice 13	<u>Standard Work Hour Modification: Approval of Work within 12-Hour Period and Approval of Work Hour Extension for Structure 272 Work in Killingly</u> . Two requests: (1) Site-specific request to allow work at Structure 272 beyond 10-hour work day to complete concrete pour and (2) Project-wide request to allow work at any time within the approved CSC work period of 7 AM to 7 PM, Monday through Saturday, without requiring CSC notice or approval.	4/29/2014	5/1/2014
Change Notice 14	<u>Extended (Sunday) Work Hours during CONVEX-approved outages</u> . 1. June 20-22: 330 Line outage, Hawthorne Lane ROW shift work (8 AM to 7 PM on Sunday) and guy and ground wire modification work on 330 Line structures (7 AM - 7 PM). 2. June 16-28: Outage inside Card Street Substation to install new circuit breaker on existing ring bus.	5/16/2014	5/19/2014

Change Notice	DESCRIPTION OF SIGNIFICANT CHANGE	DATE SUBMITTED to CSC	DATE APPROVED BY CSC
Change Notice 15	<b>Extended Work Hours: May 28, 29, and 30 at Structure 266.</b> Work at Structure 266 in Killingly until 8 PM on May 28 and from 6 AM to 8 PM on May 29 and 30, 2014 to complete work on new structure prior to the start of the CONVEX-approved outage on May 31.	5/28/2014	5/28/2014
Notification to CSC	<b>Notice to CSC of Extended Work Hour (to 8 PM) during Outage on Sunday, June 1, 2014.</b> To complete the scheduled work within the approved outage period, PAR had to work one hour past the previously 7 AM - 7 PM approved CSC work hours.	6/2/2014	N/A
Change Notice 16	<b>Extended Work Hours: June 2, 2014 at Structure 1R.</b> Extended work re: concrete pour at Structure 1R in Lebanon until sunset on June 2.	6/2/2014	6/2/2014
Change Notice 17	<b>Extended Work Hours: June 15, 2014 at Structure 9080.</b> Extended work on Sunday, June 15 to allow continuation of foundation and concrete pour at Structure 9080, Hawthorne Lane, in Mansfield. Work hours are 8 AM to 7 PM.	6/13/2014	6/13/2014
Change Notice 18	<b>Extended Work Hours: June 16 through June 19, 2014 at Structure Nos. 9079 and 9080.</b> Extended work, for days specified, from 7 AM to dusk. Extended work hours are required to complete drilling and foundation work in Hawthorne Lane vicinity, Town of Mansfield, prior to June 20-22 CONVEX-approved outage.	6/16/2014	6/16/2014
Change Notice 19	<b>Extended Work Hours: Card Street Substation during June CONVEX-approved outage.</b> Extended work, June 19 and 20, 2014, from 6 AM to sunset and work on Sunday, June 29, 2014, from 7 AM to 7 PM. Extended work hours are required to complete certain work within the substation prior to the rescheduled June 18-30 CONVEX-approved outage. Outage was delayed due to ISO-NE studies	6/17/2014	6/17/2014
Change Notice 20	<b>Extended Work Hours: June 17, 2014, Card Street Substation.</b> A concrete pour for a terminal foundation within Card Street Substation was completed by 7 PM, but the Contractor (ES Boulos) did not leave the substation until approximately 7:30 PM. Advance notice was not provided to CL&P (or the CSC). CL&P reminded the Contractor of the need to complete all work and leave the substation by 7 PM.	6/18/2014	-
Change Notice 21	<b>154 Card Street and Vicinity: Grading and Tree Removal for Traffic Line-of-Sight.</b> Pursuant to agreement with the Town of Lebanon, to improve traffic line-of-sight along Card Street in the vicinity of Card Street Substation, CL&P will perform grading on the eastern portion of the 0.99-acre lot (CL&P-owned) at 154 Card Street and will remove three trees adjacent to Card Street, beneath the existing 368 Line.	6/26/2014	6/26/2014
Change Notice 22	<b>Card Street Substation: Extended Work Hours Prior to July 4 Holiday.</b> Request to allow construction activities on July 1, 2, and 3 to occur until sunset in order to facilitate contractor's work in pouring concrete for footing foundations and install the terminal structure for the new 3271 Line. All work will be contained within the substation.	7/1/2014	7/1/2014

Change Notice	DESCRIPTION OF SIGNIFICANT CHANGE	DATE SUBMITTED to CSC	DATE APPROVED BY CSC
Regulatory update	<u>Provision of Mansfield Hollow Conveyance of Easement from USACE.</u> Pursuant to the condition of the CSC's November 4, 2013 approval of the D&M Plan for the new 345-kV transmission lines, CL&P provided to the CSC a copy of the easement from the USACE.	7/8/2014	7/8/2014
Change Notice 23	<u>FAA Structure Modifications for Hazard Mitigation.</u> Addition of aircraft hazard mitigation lighting or marking on 8 new transmission line structures / spans near Windham Airport and 10 new transmission line structures near Danielson Airport, pursuant to FAA recommendations. The affected structures are located in the towns of Mansfield, Brooklyn, and Putnam. Aviation warning lights will be solar powered on Structures 57-59, 66-69, 70, 72, 222-229 will be solar-powered. The lights on Structures 215 and 216 (vicinity Church Street, Brooklyn), will be connected to a distribution line.	7/10/2014	7/14/2014
Change Notice 24	<u>Card Street Substation Extended Work Hours.</u> Request to work beyond 7 PM (to sunset) on July 22 in order to pour concrete foundations in preparation for a critical outage in September. All work within substation fence. Town officials will be notified	7/22/2014	7/22/2014
Change Notice 25	<u>Extended Work Hours July 31 and August 1 at Structure 100, Mansfield Hollow Area. Chaplin.</u> Request for additional work hours for PAR to complete drilling and concrete pour for the last drilled shaft foundation inside Mansfield Hollow WMA. The extra work hour request is to allow the drilling crew to work until dusk on both July 31 and August 1.	7/31/2014	7/31/2014
Change Notice 26	<u>Extended Work Hours (Sunday) August 10 at Card Street Substation and Lake Road Switching Station.</u> Request for Sunday work, 7 AM to 7 PM, within the fence at each station, to allow ESB to perform critical work activities in advance of CONVEX-approved outages on the 330 Line. Activities include equipment installation and wiring.	8/8/2014	8/8/2014
Change Notice 27	<u>Extended Work Hours (Sundays) in August, September, and October at Card Street Substation and Lake Road Switching Station and two sessions of overnight work at Card Street Substation, in the control house.</u> Request for Sunday work, 7 AM to 7 PM, within the fence at each station on August 17 and 24, September 7, 14, 21, and 28; and October 5, 12, and 19, to allow ESB to perform critical work activities in advance of CONVEX-approved outages on the 330 Line. Activities include equipment installation and wiring. In addition, on August 29-30 and September 16-17, ESB proposes to perform work commencing in the evening and extending overnight, within the Card Street Substation control house.	8/13/2014	8/13/2014
Regulatory update	<u>Card Street Substation Drainage Swale. Notification of USACE Determination that Swale is Non-Jurisdictional and CT DEEP Determination that Technical Plan Revision is not Necessary.</u> Transmittal to CSC of correspondence to CT DEEP, dated July 22, 2014, summarizing the USACE determination that the drainage swale, constructed originally as part of the Card Street Substation stormwater management system, is not jurisdictional. Correspondence also notes that CT DEEP does not regulate maintenance of a drainage swale.	8/25/2014	N/A

Change Notice	DESCRIPTION OF SIGNIFICANT CHANGE	DATE SUBMITTED to CSC	DATE APPROVED BY CSC
Change Notice 28	<b>PAR Extended Work Hours (Sundays) for Transmission Line Work during September 17-October 11, 2014 Outage on the 330 Line.</b> Performance of work on three Sundays during outage (September 21 and 28, October 5) from 7 AM to 7 PM to allow work on new 3271 Line interconnections to Card Street Substation and Lake Road Switching Station; new Structure 6538A on the 800/900 Line; Hawthorne Lane ROW Shift in Mansfield; and various locations along the existing 330 Line ROW.	8/27/2014	8/27/2014
Change Notice 29	<b>Structure Height Reductions (New Structure 80 and 330 Line Structure 9079).</b> Based on FAA recommendations, reduction in heights of two monopole structures by 8 feet (from 120' to 112') to avoid the need for aviation hazard mitigation (lights, marker balls). Structures are located just west of Hawthorne Lane, Mansfield.	9/2/2014	9/3/2014
Change Notice 30	<b>Extra Work Hours at Card Street Substation, 4 AM - 7 PM, September 6 -16, 2014.</b> To complete electrical work in the substation control house in advance of the planned outage on September 17, CL&P requests that ES Boulos be allowed to commence work at 4 AM, from September 6 - 16. All work will be within the control house. CL&P will notify the abutters to the substation and the Town of Lebanon.	9/5/2014	9/5/2014
Change Notice 31	<b>Extra Work Hours at Card Street Substation and Lake Road Switching Station, 7 PM - 10 PM, October 4 through 25, 2014</b> To complete electrical work in the station control houses during and after the CONVEX-approved outage on the 330 Line, CL&P requests that ES Boulos be allowed to perform work as necessary during these extended hours. CSC approval requires that no civil work be performed during these extended hours and that all work be conducted in compliance with state noise control regulations	10/2/2014	10/2/2014
Change Notice 32	<b>Extra Work Hours at Structure 6538A during 800/900 Line Outage.</b> For work on conductors on the 69-kV 800 line, Structure 6538A, PAR asked for extended work hours that would allow this work to be completed on Friday, October 3.	10/3/2014	-
Change Notice 33	<b>Structure 209 On-ROW Access Road Modification.</b> CL&P proposes to modify the on-ROW portion of an off-ROW access road to Structure 209 (Mapsheet 40, Town of Brooklyn, Line List # 30340, Rosenberg). The access road modification will avoid a cultural resource site where protective measures otherwise would have been required (Barrett Hill East site) and will minimize the length of the access road (200 feet compared to 375 feet, as originally approved).	10/3/2014	10/6/2014
Change Notice 34	<b>Structure 211-212 On-ROW Access Road Modification.</b> CL&P proposes to modify the upland portion of an on-ROW access road between Structures 211 and 212 (Mapsheet 41, Town of Brooklyn, Line List # 30343). The access road modification will facilitate construction equipment access, reduce the amount of temporary access road material in the floodplain of Creamery Brook (S20-52), and align the road farther from the boundary of wetland W20-157 and vernal pool BR-18-VP. The road will be temporary.	10/9/2014	10/14/2014

Change Notice	DESCRIPTION OF SIGNIFICANT CHANGE	DATE SUBMITTED to CSC	DATE APPROVED BY CSC
Change Notice 35	<p><b>Extended Work Hours: Sunday November 16 and Sunday November 23.</b> PAR proposes to work 12-hour days (7 AM to 7 PM) on both Sundays to perform wire stringing operations along the new 3271 Line in the towns of Coventry and Mansfield (Structures 28 through 42). PAR requests these extended work hours to accommodate the limited availability of railroad-company flagmen, who are required to oversee wire stringing operations at the transmission line crossing of the New England Central Railroad (NECRR), which is located east of and adjacent to the Willimantic River in the Town of Mansfield (refer to the D&amp;M Plan, Volume 3, Mapsheet 7; the transmission line extends over the railroad between Structures 34 and 36). For the conductor stringing operations, NECRR has committed to provide a flagman for a two-week period, commencing on or about November 14-15. Once the flagman is on-site, PAR intends to complete all required work near the railroad crossing in the subsequent two-week period.</p>	11/10/2014	11/10/2014
Change Notice 36	<p><b>Extended Work Hours: Sunday November 16.</b> Lake Road Switching Station (Town of Killingly) from 7 AM to 7 PM. Work needs to be performed during an outage which schedule shifted, includes wiring and testing in the control house and in the station yard relating to the interconnection of the new 3271 Line.</p>	11/12/2014	11/12/2014
Regulatory update	<p><b>CT DEEP Approval of Technical Plan Revision to Extend Duration of Work Pad in Floodplain at Structure 34.</b> Transmittal to CSC of the CT DEEP's approval of CL&amp;P's November 13, 2014 request to allow a temporary timber mat work pad, located within a portion of the Willimantic River 100-year floodplain, to remain in place for longer than 3 months, as specified in CT DEEP 401 WQC Special Condition #7. CT DEEP approved the extension to 12/20/2014.</p>	11/20/2014	-
Change Notice 37 and Regulatory 7	<p><b>On-ROW Access Road Realignment, Structures 253 - 254, Town of Killingly.</b> At request of the landowner (Berk), CL&amp;P shifted the approved on-ROW access road from the east to the western edge of the ROW, generally beneath CL&amp;P's existing 115-kV line (Line List #s 30409, Lannon / Berk, and 30411, Garvey). The alternative access road would extend for approximately 1,000 feet, from just south of Structure 253 north to Structure 254 along the west side of CL&amp;P's easement. This alternative road would replace an approximately 925-foot-long section of the permitted access road, which would not be built. The realigned access road would decrease impacts to water resources by 420 square feet, and would avoid wetland W20-171A entirely. The alternative access road would cross stream S20-57A and wetland W20-171, as would have the originally approved access road. Approvals for the access road shift were received from the SHPO 12/10/2014, the CT DEEP (12/16/2014), and the USACE (12/23/2014).</p>	1/6/2015	1/9/2015
Change Notice 38	<p><b>Extra (early) Work Hour Requests for Snow Removal and De-icing on January 13, 2015, Towns of Chaplin and Hampton.</b> Due to icy weather on January 12, PAR requested that crews be able to commence de-icing (sand / salt application) and snow removal (if necessary) at 5:30 AM - 7:00 AM on January 13, in advance of the typical start of construction. This early start will allow work sites to be de-iced and safe for construction personnel. Two areas were requested for early work hours: Structures 111 - 124 (Chaplin and Hampton) where wire work is ongoing and Structure 141 (Hampton, off Pudding Hill Road / State Route 97), where structure installation work is ongoing. All other snow removal / de-icing activities will be performed during normal work hours. The amended snow removal and de-icing procedures, as provided to the Council in the November 2014 progress report (12/5/2014) will be used.</p>	1/12/2015	1/12/2015
Change Notice 39	<p><b>Temporary Work Pad for Conductor / OPGW Splicing, Town of Hampton.</b> Between Structures 149 and 150, CL&amp;P requests that the CSC approve a temporary work pad to be used to facilitate the splicing of conductors / OPGW. The temporary work pad will be constructed of timber mats and will be located in an upland area (refer to D&amp;M Plan, Volume 3, Mapsheet 29).</p>	1/21/2015	1/21/2015

Change Notice	DESCRIPTION OF SIGNIFICANT CHANGE	DATE SUBMITTED to CSC	DATE APPROVED BY CSC
Change Notice 40	<p><u>Extended (Sunday) Work Hours for Snow Plowing / De-icing, Towns of Hampton, Brooklyn, Pomfret, Killingly, Putnam, and Thompson.</u> CL&amp;P requests that PAR be allowed to conduct snow plowing and de-icing activities along access roads and work pads in the above-referenced towns, as needed on Sunday, January 25, from 10 AM until 5 PM. This Sunday work is needed to allow PAR crews to clear the Project work areas of snow and ice prior to the start of normal work hours, and thus to facilitate adherence to the Project schedule.</p>	1/23/2015	1/23/2015
Change Notice 41	<p><u>Extended (Early) Work Hours for Snow Plowing / De-icing, Towns of Brooklyn, Pomfret, and Killingly on February 3.</u> CL&amp;P (doing business as Eversource Energy) requests that PAR be allowed to conduct snow plowing and de-icing activities along access roads and work pads in the above-referenced towns, as needed on February 3, from 5:30 AM until 7:00 AM. This early work is needed to allow PAR crews to clear the Project work areas of snow and ice prior to the start of normal work hours, and thus to facilitate adherence to the Project schedule. All early plowing will be performed along access roads to and work pads at drilling crew sites (Structures 197-200, 216-220, 222-236, 244-248, and 262-264).</p>	2/2/2015	2/2/2015
Change Notice 42	<p><u>Extended (Early) Work Hours for Snow Plowing / De-icing, Towns of Hampton, Brooklyn, Pomfret, Putnam, and Killingly on February 4-7.</u> CL&amp;P (doing business as Eversource Energy) requests that PAR be allowed to conduct snow plowing and de-icing activities along access roads and work pads in the above-referenced towns, as needed on February 4 through February 7, from 5:30 AM until 7:00 AM. This early work is needed to allow PAR crews to clear the Project work areas of snow and ice prior to the start of normal work hours, and thus to facilitate adherence to the Project schedule.</p>	2/3/2015	2/3/2015
Change Notice 43	<p><u>Extended (Early) Work Hours for Snow Plowing / De-icing, Towns of Brooklyn, Pomfret, Putnam, and Killingly on February 9 and 10.</u> CL&amp;P (doing business as Eversource Energy) requests that PAR be allowed to conduct snow plowing and de-icing activities along access roads and work pads in the above-referenced towns, as needed on February 9 and 10, from 5:30 AM until 7:00 AM. This early work is needed to allow PAR crews to clear the Project work areas of snow and ice prior to the start of normal work hours, and thus to facilitate adherence to the Project schedule.</p>	2/6/2015	2/6/2015
Change Notice 44	<p><u>Extended (Early) Work Hours for Snow Plowing / De-icing, Towns of Brooklyn, and Putnam on February 23.</u> CL&amp;P (doing business as Eversource Energy) requests that PAR be allowed to conduct snow plowing and de-icing activities along access roads and work pads in the above-referenced towns, as needed on February 23, from 5:30 AM until 7:00 AM. This early work is needed to allow PAR crews to clear the Project work areas of snow and ice prior to the start of normal work hours, and thus to facilitate adherence to the Project schedule. The early start is requested in anticipation of inclement weather (snow, ice, rain) on Sunday, February 22 and will apply to work sites for structure installation in Brooklyn (Structures 200-209) and drilling in the Town of Putnam (Structures 274-318).</p>	2/19/2015	2/19/2015
Change Notice 45	<p><u>Extended (Early) Work Hours for Snow Plowing / De-icing, Towns of Pomfret, Killingly, Putnam, and Thompson on March 4.</u> CL&amp;P (doing business as Eversource Energy) requests that PAR be allowed to conduct snow plowing and de-icing activities along access roads and work pads in the above-referenced towns, as needed on March 4, from 5:30 AM until 7:00 AM. This early work is needed to allow PAR crews to clear the Project work areas of snow and ice prior to the start of normal work hours, and thus to facilitate adherence to the Project schedule. The early start is requested due to the inclement weather (snow, ice, rain) the evening/night of March 3 and extending into March 4. The snow plowing and de-icing activities and will apply to work sites for structure installation and drilling.</p>	3/3/2015	3/3/2015

Change Notice	DESCRIPTION OF SIGNIFICANT CHANGE	DATE SUBMITTED to CSC	DATE APPROVED BY CSC
Change Notice 46	<b>Extended (Sunday) Work Hours during Outage: Card Street Substation.</b> During three Sundays in March (15, 22, and 29), Eversource requested that ESB be allowed to work from 7 AM to 7 PM to perform work at Card Street Substation during CONVEX-approved outages. Eversource will inform the Town of Lebanon regarding this Sunday work.	3/10/2015	3/10/2015
Change Notice 47	<b>Extended (Sunday) Work Hours during Conductor / OPGW Cross-Over Work, Town of Killingly on April 12.</b> CL&P (doing business as Eversource Energy) requests that PAR be allowed to perform conductor and OPGW installation activities from 7 AM to 7 PM on Sunday, April 12 in Town of Killingly (Structures 241 to 245). The Sunday work hours are required to allow PAR to install the new 345-kV conductors and OPGW at a crossing of two 115-kV lines during a CONVEX-approved outage on one of the lines.	4/7/2015	4/7/2015
Change Notice 48	<b>After-the-Fact Notification of Extended (Saturday) Work Hours Past 7 PM during Conductor / OPGW Cross-Over Work, Town of Killingly on April 11.</b> On April 13, CL&P (doing business as Eversource Energy) informed the CSC via e-mail that PAR worked until approximately 8 PM on April 11 to complete the new 345-kV conductor and OPGW installation at a crossing of two 115-kV lines during a CONVEX-approved outage on one of the 115-kV lines in Town of Killingly (Structures 241 to 245). This allowed PAR to avoid the previously-approved work on Sunday.	4/13/2015	1/0/1900
Change Notice 49 and Regulatory Change 8	<b>Request for Approval to Leave Permanent Fill in Wetlands at the Work Pads for Structures 4, 22, and 32 and Off-setting Compensatory Wetland Mitigation.</b> Eversource requested that the CSC approve the following: (1) Leave in place permanently, for transmission line structure stability, a total of 900 square feet of fill in wetlands at three transmission line structure work pads (Structure 4 in the Town of Lebanon, Structure 22 in the Town of Columbia and Structure 32 in the Town of Coventry; all located on Eversource-owned properties); and (2) Offset this proposed 900-square-foot permanent water resource impact by eliminating a portion of a previously-approved permanent access road across a large wetland in the Town of Hampton; the elimination of this permanent access road segment will avoid 1,324 square feet of permanent water resource impacts. This D&M Plan Change decreases permanent water resource impacts by approximately 424 square feet. Change was approved by the CT DEEP and USACE.	5/13/2015	5/18/2015
Change Notice 50 and Regulatory Change 9	<b>Request for Approval to Leave 100' x 100' Portion of Gravel Work Pad per CT DEEP Request, Mansfield Hollow State Park, Town of Mansfield.</b> Eversource requested that the CSC allow Eversource to leave in place a 100' x 100' portion of a gravel work pad located along the Project ROW in Mansfield Hollow State Park. The CT DEEP, State Parks and Public Outreach Division (SPOD), which manages Mansfield Hollow State Park, requested that Eversource leave this portion of the gravel work pad in place. CT DEEP SPOD proposes to develop access to the gravel work pad from Bassetts Bridge Road and to use the former work pad as a permanent public parking area for patrons of the Park. The CT DEEP Inland Water Resources Division, Town of Mansfield, and USACE, which owns the Mansfield Hollow State Park property, have endorsed the CT DEEP SPOD request to leave the gravel pad in place. All other access roads and work pads in Mansfield Hollow State Park have been or will be removed as specified in the D&M Plan.	5/26/2015	5/27/2015

Note: In the significant D&M Plan change notices, references to "CL&P" are synonymous with "Eversource".



## ATTACHMENT 3

### LOCATION OF CONSTRUCTION MATERIALS LEFT IN PLACE

All of the construction materials left in place as a result of the Project pertain to long-term ROW access, ROW stabilization, or best management practices for erosion / sedimentation control. For example, along the Project ROWs, certain work pads at structure sites and gravel roads remain in place to provide general access to facilitate Eversource's future transmission line maintenance, vegetation management, and emergency repairs. All work pads left in place are in upland areas, and are pursuant to landowner approvals.

The locations of new permanent access roads are shown on the maps in Volume 3 of the D&M Plan for the construction of the new transmission lines. During construction, landowners requested that some access roads, initially identified as temporary, remain permanently. Such access roads are listed in Table 3-1. In addition, sedimentation basins and drainage swales remain in place along some permanent access roads.

Except for permanent culverts, watercourse improvements, and minor permanent wetlands fill authorized by the Connecticut Department of Energy and Environmental Protection (CT DEEP) and the USACE, construction materials were left in place only in uplands. No permanent access roads were left in place in wetlands.

All Project modifications to Card Street Substation, Lake Road Switching Station, and Killingly Substation were performed within the station boundaries and involved no expansion of the existing station fence lines. No construction materials were left in place in conjunction with the station modifications.

Table 3-1 lists the construction materials left in place along the Project ROWs, in addition to the permanent access roads identified on the D&M Plan maps.

Table 3-1: Locations where Project Construction Materials Remain in Place

Line List No. / Town	Structures #s	Permanent BMPs (Including culverts)	Access Roads and Work Pads
<b>Lebanon</b>			
30001	1-4	Two sedimentation basins and stone drainage swale left in place on access road to Structure 4.	Permanent access road to Structures 1 and 2. Small amount of authorized fill remains in wetland (for Structures stability) at Structure 4.
30006	6		Gate on permanent AR between Structures 5-6
<b>Columbia</b>			
30011	8, 9		Permanent access road to Structures 8 - 9. At landowner's request, work pad material from these structures removed and stockpiled on site for use by landowner.
30018	10	Drainage swale left in place at road.	
30021	11-15	Sedimentation basin on north side of access road to Structure 11. Two sedimentation basins along access road between Structures 13 and 14.	
30024	16, 17		Permanent access road between Structures 16 and 17.
30028	18	Sedimentation basin, with water bar, left on north side of access road between Structures 17-18.	
30039	21	Stone drainage swale and four water bars along access road between Structures 21-22.	
30042	22		Work pad at Structure 22 left in place.
<b>Coventry</b>			
30060, 30061, 30062	27-30		Work pads at Structures 27-28 remain (Babcock Hill Junction).
30066	31, 32	Along access road, rip-rap drainage swale between Structures 31-32, rip-rap sedimentation basin on east side of Structures 32, rock water bars and sedimentation basins on west side of Structure 32.	Work pads at Structures 32 -32 remain, including small amount of authorized wetland fill near Structure 32 poles.
30076	34		Work pad materials left on site (in upland) at landowners' request.
<b>Mansfield</b>			
30086	38-40		Structure 38 work pad left in place; topsoil spread over top. Structures 40 work pad left in place.

Line List No. / Town	Structures #s	Permanent BMPs (Including culverts)	Access Roads and Work Pads
30090	41, 42	Along access road on slope west of Structure 43, stone sedimentation basin, check dams, rip-rap drainage swale, and water bars remain.	Work pads at Structures 41 and 42 left in place.
30100	44	Stone drainage swale along access road between Structures 44 and 45.	
30107	46	Stone sedimentation basin, rip-rap ditch along access road between Structures 46 and 47.	
30108	47-52		Permanent culvert (per regulatory permits) along access road between Structures 46 and 47 (Stream S20-8). Along access road between Structures 50 and 51, water bars and sedimentation basins remain.
30109	53-56	Per landowner request, access road between Structures 53 and 54 remains. Rip-rap, water bars, and sedimentation basin along off-ROW access road from Mansfield City Road	Structures 53-55 work pad materials stockpiled and left in upland for landowner, per request.
30114	57-59	Water bar along access road between Structures 57 and 58.	
30115	60-64	Two water bars, rip-rap drainage swale, and sedimentation basin between Structures 59 and 60. Water bar between Structures 62 and 63. Three water bars, sedimentation basin, rip-rap swale between Structures 63 and 64.	Work pads left in place at Structures 60-62 and 64, per landowner request.
30117	65	Water bar along access road between Structures 64 and 65.	
30118	66, 67	Three water bars and sedimentation basin remain along access road between Structures 66 and 67.	
30125, 30127, 30129	68-72	Water bar along access road between Structures 67 and 68. Stone swale and water bars along access road from Structure 72 to Storrs Road (State Route 195).	
30126		Water bars, riprap swale, and sedimentation basin along access road between Structures 70 and 72 (in uplands)	Access road spur in upland west of Structure 71 (avoids wetland W20-60, see D&M Plan mapsheet 13). Replaced permanent culvert, per permits, between Structures 71 and 72.
30134, 30137, 30140	74		Upland portions of work pad for Structure 74 left in place, per landowner request.
30141	75-77		Work pad for Structure 75 remains.

Line List No. / Town	Structures #s	Permanent BMPs (Including culverts)	Access Roads and Work Pads
30163, 30165	82-87		Portion of pull pad left for parking area for Mansfield Hollow State Park, per CT DEEP and USACE authorizations.
30172	89		Work pad at Structure 89 remains in place, per landowner request.
<b>Chaplin</b>			
30190, 30191	101		Upland portion of work pad for Structure 101 remains in place, per landowner request.
30202			Along access road just west of Structure 104 (in upland) and between Structures 104 and 105, water bars, stone swales, and stone sedimentation basins remain.
30204, 30206, 30208, 30210, 30211, 30212, 30213, 30219.1	105-111		Materials from work pads at Structures 105-111 left in place and topsoil /with seed spread over top, per request.
30219, 30221	113-115	Water bar and sedimentation basins remain along access road between Structures 113 and 114.	
30223	116, 117		Permitted, permanent culvert. Wetland W20-88, Stream S20-28
30226	119		Permitted, permanent culvert. Wetland W20-89, Stream S2-29 (Buttonball Brook)
30231	122, 123		Work pads at Structures 122 and 123 remain in place, per landowner.
<b>Hampton</b>			
30239, 30243	126-131	Along access road between Structures 126-127, permanent BMPs include 3 water bars and 2 rip-rap sedimentation basins.	Work pads at Structures 126-131 left in place, per landowner. Portion of pull pad between Structures 126 and 127 left in place and top-dressed with soil /seed.
30247	132-135	Along access road between Structures 132-133: 1 water bar and 2 sedimentation basins.	Work pad left in place at Structure 134, per landowner.
30248, 30251	136-140	One water bar along access road east of Structure 136.	New, permanent permitted culverts and riprap protection along access road between Structures 136 and 137 (Stream S20-35; wetland W20-101) and access road between Structures 139 and 140 (Stream S20-36).

Line List No. / Town	Structures #s	Permanent BMPs (Including culverts)	Access Roads and Work Pads
30250, 30254, 30256, 30259, 30260	141-150	Water bar, rip-rap swale, and sedimentation basin along access road between Structures 148-149 (outside of floodplain). Water bar, stone drainage swale, and sedimentation basin along access road between Structures 149 and 150.	Permanent short access spur to Structure 141 off State Route 97. Permanent access road between Structures 145 and 146 per landowner.
30263	151-153	Water bar, rip-rap swale, and sedimentation basin along access road between Structures 150-151.	Work pad for Structure 151 remains, per landowner.
30268, 30272	154-159	Water bars along access road from Drain Street to Structure 154: stone drainage swales, check dams, sedimentation basin in vicinity of Structure 154.	New permanent, permitted culvert at Stream S20-41A (Humes Brook), along access road between Drain Street and Structure 154.
<b>Brooklyn</b>			
30275	166	Stone drainage swales and sedimentation basins along access road between Structures 165 and 166.	
30280, 30281, 30286	167-170 (shares 167 w/30283)	Rip-rap swale and water bar/sedimentation basin along access road west of Structure 168; water bar and rip-rap sediment basin along access road west of Structure 169; and grass swale and water bars west of Structure 169.	Work pads for Structures 167 and 168 remain, per landowner.
30285	171	Five water bars installed along access road between Structures 171 and 172.	Work pad remains at Structure 171.
30287	172, 173	Water bar installed between Structures 172 and 173.	Work pad remains at Structures 172 and 173, per landowner.
30290	174,175,177	Rip-rap swale, water bar, and 2 rip-rap sedimentation basin along access road between Structures 174-175.	
30290.01	178		Permanent access road between Structures 177 and 178, per landowner.
30297, 30298	179	Stone drainage swale and sedimentation basin in vicinity of Structure 179.	
30299	180, 181		Permanent access road between Structures 180 and 181.
30308		Rip-rap, water bar/stone drainage swale, and sediment basin south of Structure 183.	
30313	185, 186	Water bars and rip-rap sediment basins along access road between Structures 185-186.	Work pad remains at Structure 185, per landowner.

Line List No. / Town	Structures #s	Permanent BMPs (Including culverts)	Access Roads and Work Pads
30320	191	Water bar, rip-rap sedimentation basins (3) along access road between Structures 191-192.	
30322	192, 193		Work pads at Structures 192 and 193 remain per landowner; pads covered with topsoil and seeded.
30323			Riprap apron (access) remains between Structure 193 and Costello Road (to minimize road runoff).
30331		Two water bars and one sedimentation basin installed between Structures 199 and State Route 169.	
30335, 30337	201-206	Water bars, rip-rap sediment basins (2) installed along access road between Structures 201 and 202, vegetative swale and sediment basin installed along access road between Structures 204 and 205; water bar, rock swale, sedimentation basin at Structure 206.	Portion of work pad (outside of floodplain) remains to support anchors.
30340	209		Off-ROW access road (from Barrett Hill Road to ROW near Structures 208-209) remains in place, per landowner.
30342	210, 211	Rock berm installed on east side of pad at Structure 210.	
30343	212-214	Stone water bar and sedimentation basin along access road west of Structure 212.	
30355	215		Work pad at Structure 215 remains.
30367	218	Rip-rap water bar and three rock-lined swales at Structure 218.	
30368	219-223	Water bars and sedimentation basins (2) along access road between Structures 222-223.	Work pad at Structure 219 remains.
<b>Pomfret</b>			
30374	224-228	Rip-rap water bar and sedimentation basin along access road between Structures 224-225.	
30380	234-237	Rip-rap waterbar and sedimentation basin vicinity of Structure 236.	Permanent access road between Structures 235 and 236, per Town of Pomfret.
30381	238	Rock berm installed on northeast corner of work pad for Structure 238.	Portion of work pad for Structure 238 (outside of floodplain) remains.
<b>Killingly</b>			
30389	240,241,243	Rip-rap swales and sedimentation basins (3) between Structures 240-243.	

Line List No. / Town	Structures #s	Permanent BMPs (Including culverts)	Access Roads and Work Pads
30397	244-250	Water bar at edge of work pad for Structure 250.	Work pads for Structures 244 - 247 remain.
30418	262	Water bars (2) and rip-rap sediment basin along access road between Structures 262-263.	
31006	271, 272	Stone drainage swale adjacent to Structure 272 and stone check dams along drainage swale (near Killingly Substation).	Work pad remains at Structure 271.
<b>Putnam</b>			
31008	273		Work pad remains at Structure 273.
31009	274-276	Water bars (2) along access road between Structures 274-275.	Work pads remain at Structures 274 - 276.
31016	277, 278	Water bars and rip-rap sedimentation basins along access road between Structures 277-278.	
31018	279		Work pad remains at Structure 279.
31024	283-286	Rip-rap swale and sediment basin in the southwest corner of work pad for Structure 284.	
31068		Sedimentation basin and water bar along access road between Structures 307-308.	
31072	309		Portion of work pad at Structure 309 remains (upland area only).
31090	315	Water bars and rip-rap sedimentation basins (4) on access road between Structures 315 - 316.	
<b>Thompson</b>			
31098			
31099	322, 323	Water bar and rip-rap sedimentation basin: southeast corner of Structure 322.	
31104	324-326	Rip-rap sedimentation basin along access road between Structure 326 and Elmwood Hill Road.	Work pads remain (outside of environmentally-sensitive areas) at Structures 325 - 327.
31113, 31113.01	328-330	Rock fords (2) along access road between Structures 328-329. (Per CT DEEP requirements)	
31118.01	331-333	Water bar and rip-rap sedimentation basin along access road between Structures 331-332.	
31121	334-337	Water bar along access road between Structures 336-337; water bar and rip-rap sedimentation basin in vicinity of Structure 337.	

## ATTACHMENT 4

### LOCATIONS OF AREAS OF SPECIAL PLANTINGS AND RESEEDING

Eversource performed restoration, including reseeded, of the Project ROWs in accordance with the standard protocols identified in Section 3.8 of the *D&M Plan for the New 345-kV Transmission Lines and Related Minor Modifications to Adjacent Lines*.<sup>2</sup> For the most part, the Project ROWs traverse sparsely-populated, remote areas where forest land is the predominant vegetation. As a result, special plantings (e.g., for vegetative screening) and/or special seed mixes were not used, except as described below.

Pursuant to the Council's recommendation (Docket 424, Opinion p. 13) and Volume 1, Section 5.20 of the *D&M Plan for the New 345-kV Transmission Lines and Related Minor Modifications to Adjacent Lines*, Eversource installed landscaping on the property of the Mount Hope Montessori School and along the edge of its adjacent fee-owned property (Town of Mansfield, Line List Numbers 30143, 30141). This landscaping was installed in accordance with the vegetation screening plan prepared by Eversource and approved by school representatives.

Additional locations of special plantings or special reseeded are listed in Table 4-1.

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<sup>2</sup> Modifications to the Card Street and Killingly substations, and most improvements to Lake Road Switching Station, were performed within the station boundaries and involved stabilization with trap rock. Minor work (associated with the extension of the ground grid) was performed outside the fence line at Lake Road Switching Station. Both this area and a staging area on Eversource property near Card Street Substation were stabilized using a standard seed mix and mulch.



**Table 4-1: List of Locations of Special Plantings or Reseeding along Project ROWs**

<b>Line List Number</b>	<b>Town</b>	<b>Plantings / Seeding</b>
30011	Columbia	Special seeding for horse pasture area that coincides with ROW.
30036	Columbia	Restoration plantings (winterberry holly) near Structure 20 to compensate for ornamental plantings affected by construction.
30060	Coventry	Conservation seed mix
30076	Coventry	Restoration plantings
30099	Mansfield	Restoration plantings
30108	Mansfield	Conservation seed mix
30134	Mansfield	Agricultural seed mix
30175	Mansfield	Restoration plantings and seeding
30183	Chaplin	Conservation mix
30213	Chaplin	Conservation mix
30223	Chaplin	Special seeding, Structure 116, 117 work pads
30259	Chaplin	Special seeding for game birds, pasture, conservation
30293	Brooklyn	Special seeding, plantings
30297	Brooklyn	Restoration plantings
30349	Brooklyn	Screening plantings
30351	Brooklyn	Grass mix rather than conservation mix seeding
30362	Brooklyn	Special seed mix
30368	Brooklyn	Conservation mix
30369	Brooklyn	Restoration plantings
30374	Pomfret	Conservation mix
30375	Pomfret	Conservation mix / specialty mix
30380	Pomfret	Special seed mix
30413	Putnam	Conservation mix
30414	Putnam	Conservation mix
30416	Killingly	Conservation mix
31024	Putnam	Timothy/canary mix

<b>Line List Number</b>	<b>Town</b>	<b>Plantings / Seeding</b>
31032	Putnam	Conservation mix
31036	Putnam	Conservation mix
31040	Putnam	Conservation mix
31041	Putnam	Pasture mix
31042	Putnam	Screening plantings
31045	Putnam	Timothy / red clover mix
31065	Putnam	Conservation mix

**ATTACHMENT 5**  
**ACTUAL CONSTRUCTION COST OF THE FACILITY**

The actual construction cost of the Project is as follows:

<b>Cost Categories</b>	<b>Total (\$1,000)</b>
1. Clearing and Access	**
2. Overhead Transmission Line Construction	**
3. Station Construction	**
4. ROW Rehabilitation	**
5. Property Rights Acquisition	\$1,245
<b>TOTAL</b>	<b>\$214,163</b>

\*\* This cost data is proprietary information that is subject to April 28, 2017 proposed protective order.

