

**LEGEND:**

- M164 LINE: - - - - -
- M164 STR: 32



M164, 115kV LINE & 321, 34.5kV LINE  
 STATE OWNED LAND CROSSING, LOCATION PLAN  
 MANCHESTER, NEW HAMPSHIRE  
 EXHIBIT 1

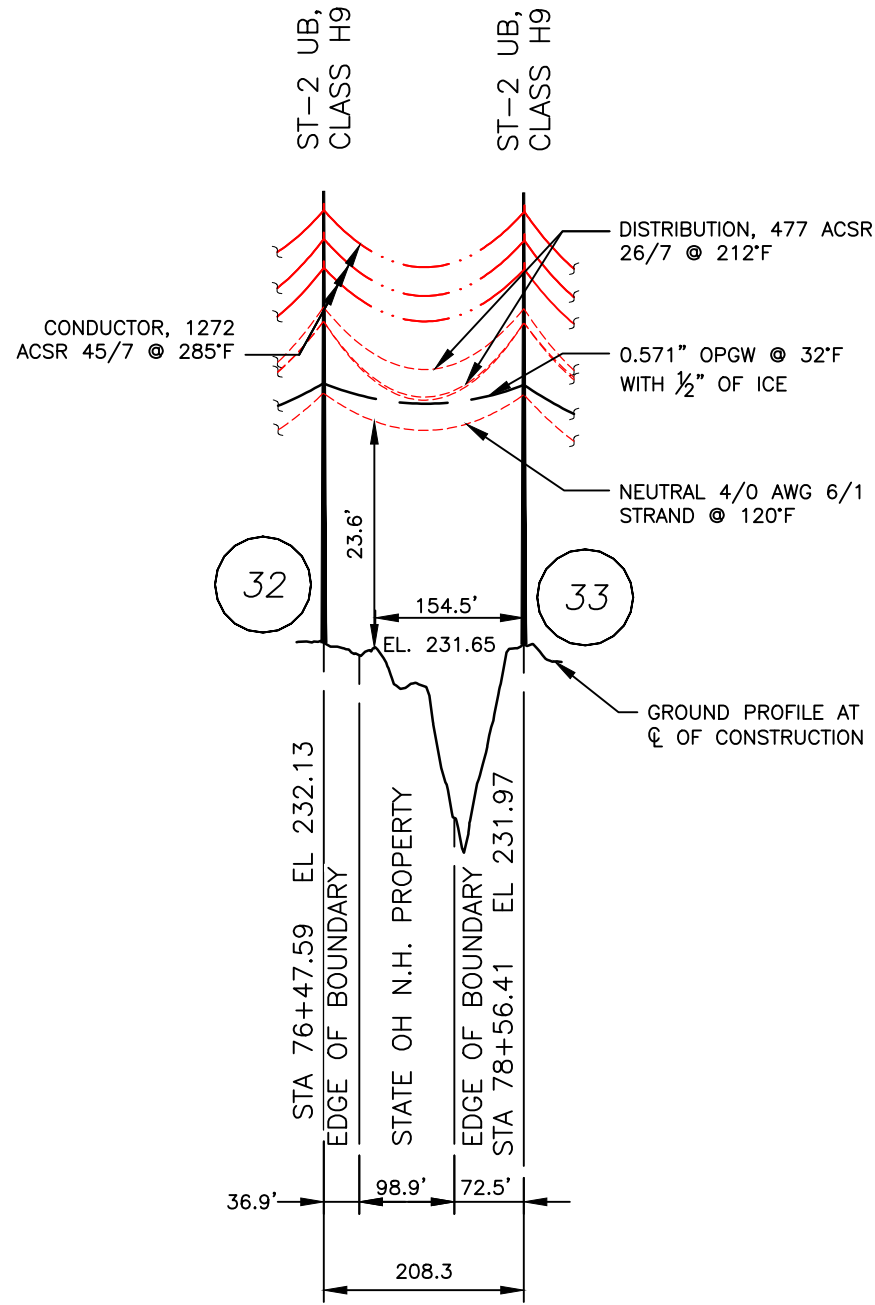
T	0
DRAWN JJD	
ENGINEER KJD	
CHECKED CRP	
APPROVED -	
DATE 4/5/2021	

0	ISSUED TO PUC	05/19/21	JJD	CRP	KJD
DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD APPR

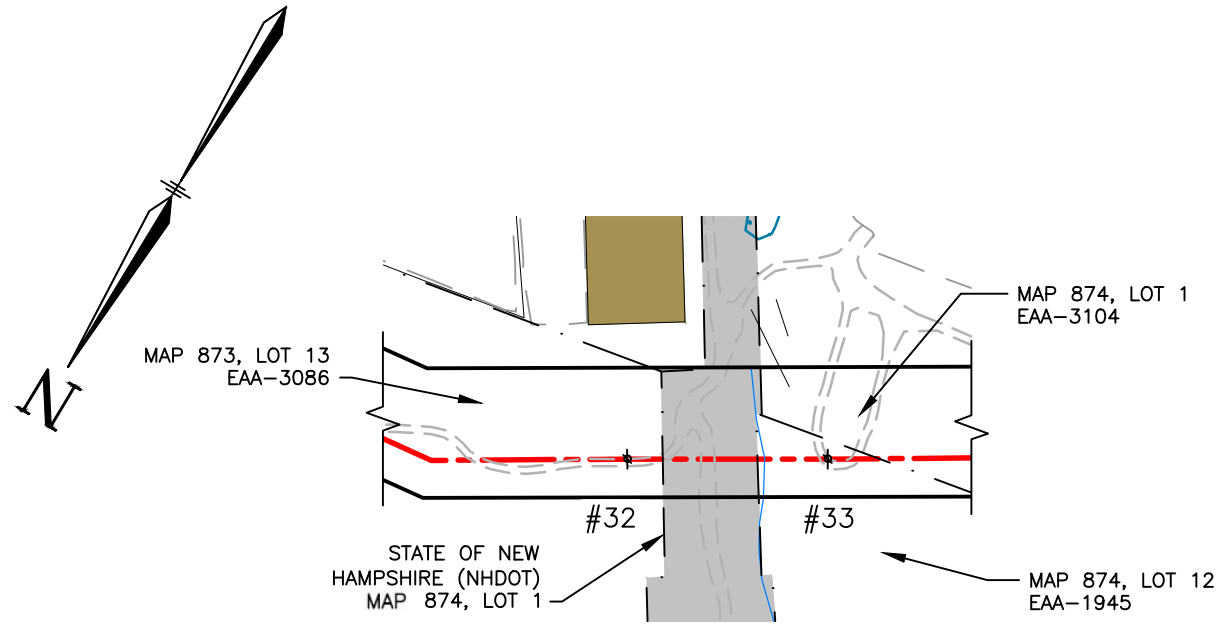
SCALE 1" = 1200'	FILE: M16443500.DWG
IMAGE:	

DRAWING NO.  
**074043500**

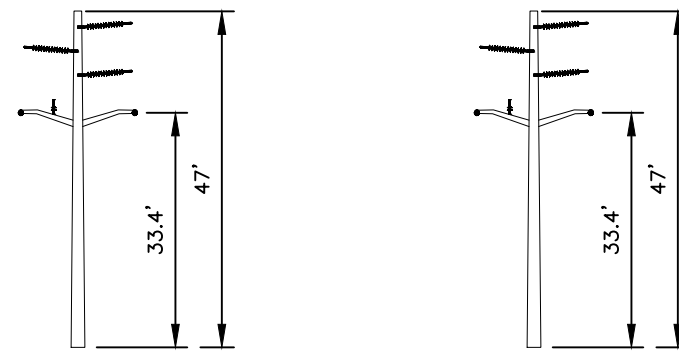
5/20/2021 2:30 PM - JoshD - N:\Active Projects\02462\_ES\_LWS\_Structure\_Replacement\06-Dra...M16443500.dwg - EXHIBIT 2 (LAND CROSSING)ES VER: 12/2016



**PROFILE VIEW**  
SCALE: HORZ 1" = 200'  
VERT 1" = 20'



**PLAN VIEW**  
SCALE: 1" = 200'



**STRUCTURE 32**  
TYPE ST-2 UB  
STR 32: IS A EVERSOURCE TYPE ST-2 UB, SINGLE CIRCUIT W/ DISTRIBUTION UNDERBUILD STEEL POLE TANGENT, DELTA CONFIG.

**STRUCTURE 33**  
TYPE ST-2 UB  
STR 33: IS A EVERSOURCE TYPE ST-2 UB, SINGLE CIRCUIT W/ DISTRIBUTION UNDERBUILD STEEL POLE TANGENT, DELTA CONFIG.

**STRUCTURE DETAIL**  
SCALE: NTS

**LEGEND:**

- #90 STRUCTURE
- STATE OF NEW HAMPSHIRE PROPERTY
- PROPERTY BOUNDARY
- M164 LINE 115KV LINE, C OF CONSTRUCTION
- LIMITS OF EVERSOURCE RIGHT OF WAY

**NOTES:**

1. PARCEL INFORMATION OBTAINED FROM NH GRANIT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. LINE 321 34.5KV DISTRIBUTION UNDERBUILD.

STRUCTURE LOCATION		
STRUCTURE	LONGITUDE	LATITUDE
32	-71.44337155	42.95200033
33	-71.44270368	42.95229628

NESV VERTICAL CLEARANCE (FT) FROM TABLE 232.1			
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115KV	34.5KV	NEUTRAL
DOT RAIL TRAIL, TOP RAILS OF RAILROAD	28.1	26.5	23.5

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 1272 kcmil 45/7, BITTERN	10000	0	0.5	4
DISTRIBUTION	3	ACSR, 477 kcmil 26/7, HAWK	2350	0	0.5	4
OPGW	1	BRUGG 79AY46ACS-1C .571"	4000	0	0.5	4
NEUTRAL	1	4/0 AWG 6/1 STRAND, PENGUIN	2500	0	0.5	4

**EVERSOURCE ENERGY**

M164, 115kV LINE & 321, 34.5kV LINE  
STATE OWNED LAND CROSSING  
MANCHESTER, NEW HAMPSHIRE  
EXHIBIT 1

DRAWN JJD	T 0
ENGINEER KJD	
CHECKED CRP	
APPROVED	
DATE 4/5/2021	

SCALE AS SHOWN	FILE: M16443500.DWG	DRAWING NO. M16443500
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0	ISSUED TO PUC	05/19/21	JJD	CRP	KJD
DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD