

LEGEND:

- V191 LINE: - - -
- V191 STR: 11

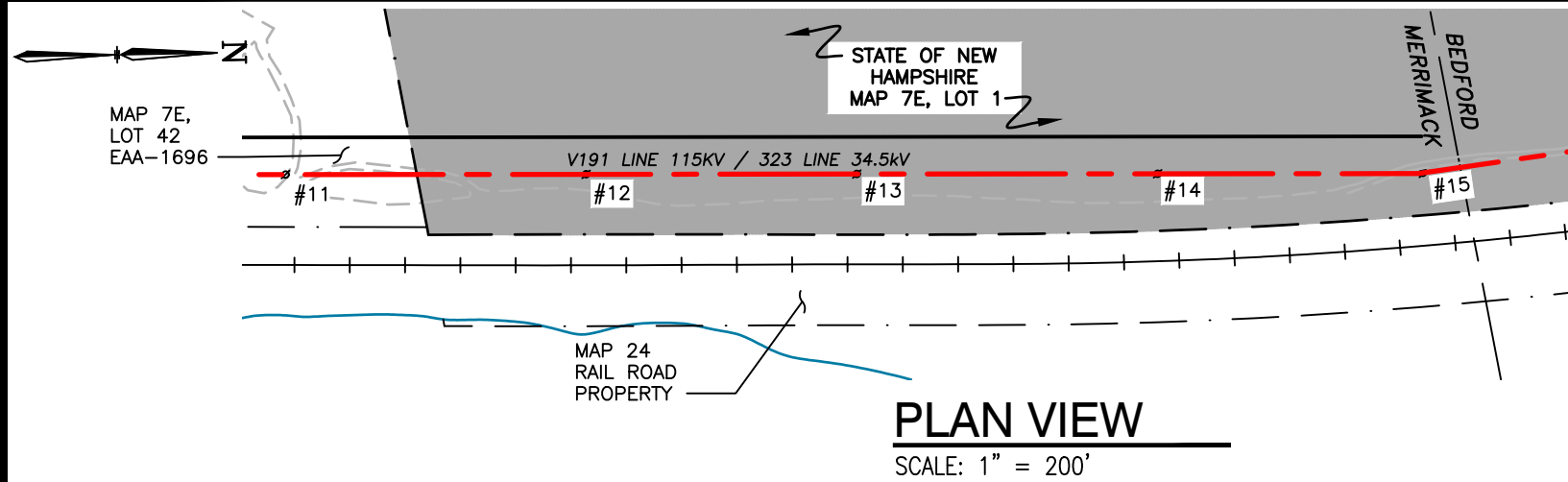
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2	RESUBMITTED TO PUC		10/21	GBS	CJN	JRS
1	ISSUED TO PUC		05/21	GBS	CJN	JRS



V191, 115kV & 323, 34.5kV LINE
STATE OWNED LAND CROSSING, LOCATION PLAN
MERRIMACK / BEDFORD, NEW HAMPSHIRE
EXHIBIT 1

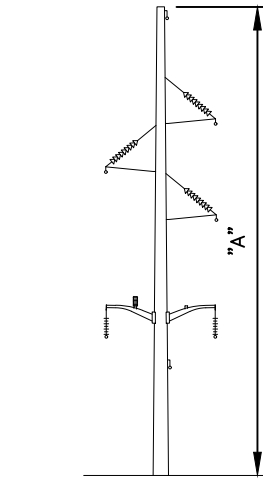
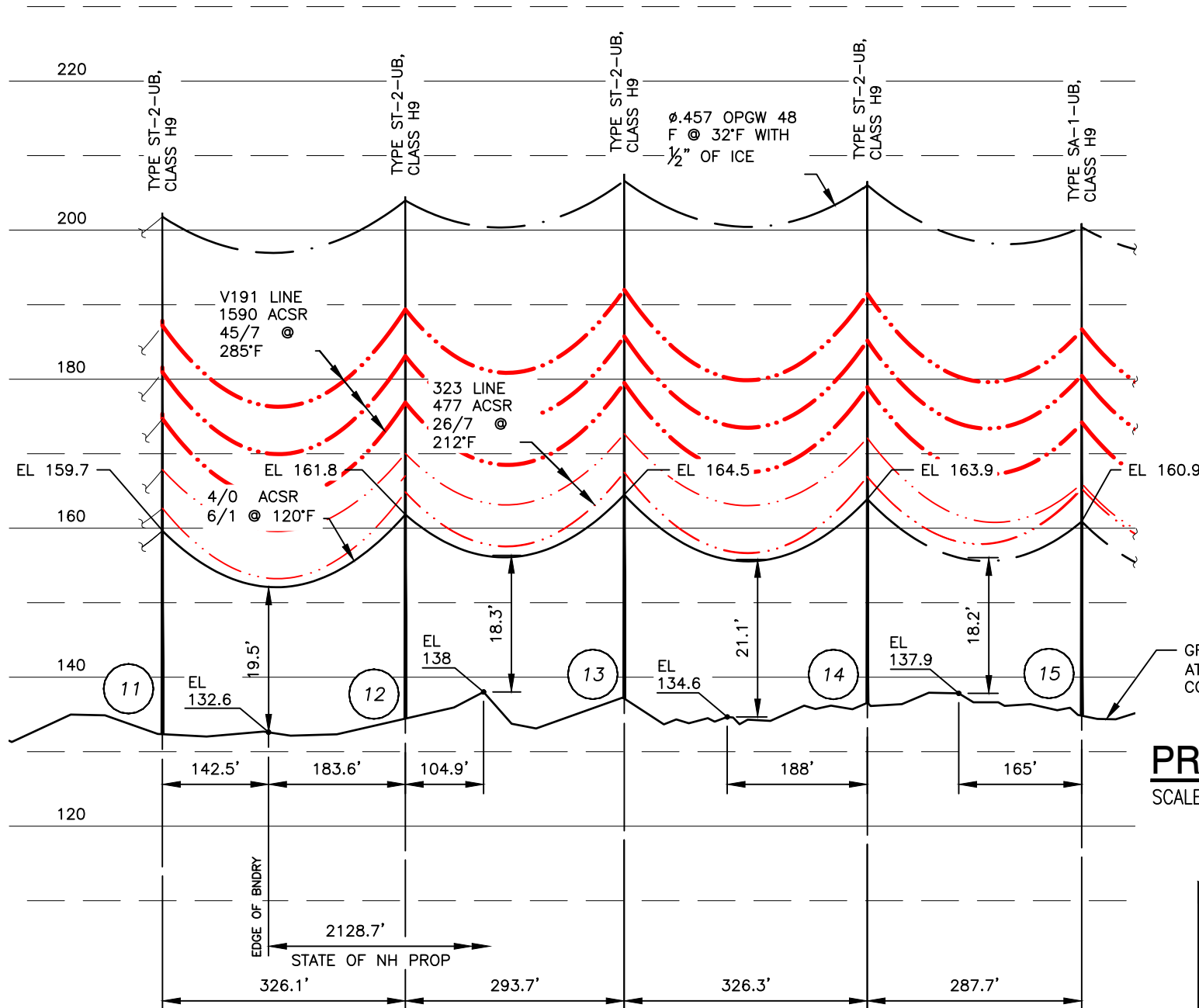
T	2
DRAWN GBS	
ENGINEER CJN	
CHECKED CJN	
APPROVED JRS	
DATE 05/07/21	

SCALE 1" = 1500'	FILE: V19143501.DWG IMAGE:	DRAWING NO. V19143501
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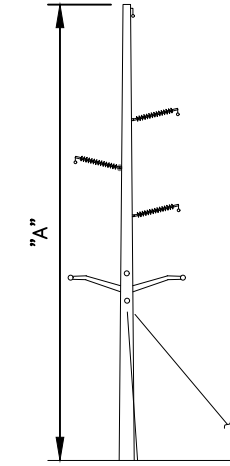


STRUCTURE DIMENSIONS	
STR	"A" (FT)
11	70.0
12	70.0
13	70.0
14	70.0
15	66.0

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 1590 kcmil 45/7, LAPWING	10000	0	0.5	4
CONDUCTOR	3	ACSR, 477 kcmil 26/7, HAWK	4600	0	0.5	4
NEUTRAL	1	4/0 ACSR 6/1, PENGUIN	2500	0	0.5	4
OPGW	1	24F Ø0.571 AFL	3300	0	0.5	4



STRUCTURE TYPE ST-2-UB
STR'S 11, 12, 13, 14:
IS A EVERSOURCE TYPE ST-2-UB,
DOUBLE CIRCUIT SINGLE STEEL POLE
TANGENT, VERTICAL CONFIG



STRUCTURE TYPE SA-1-UB
STR'S 15:
IS A EVERSOURCE TYPE SA-1-UB,
DOUBLE CIRCUIT SINGLE STEEL POLE
TANGENT, VERTICAL CONFIG

- LEGEND:**
- #13 STRUCTURE
 - STATE OF NEW HAMPSHIRE PROPERTY
 - PROP BOUNDARY
 - V191 LINE 115KV LINE, C OF CONST
 - LIMITS OF EVERSOURCE RIGHT OF WAY
- NOTES:**
- STATE PARCEL INFORMATION PROVIDED BY NH GRANIT.
 - RAILROAD PARCEL INFORMATION PROVIDED BY LIDAR SCAN IN COMBINATION WITH RIGHT OF WAY AND TRACK MAP V.21/12, DATED JUNE 30, 1914.
 - ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.

NESC VERTICAL CLEARANCE (FT) FROM TABLE 232.1			
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	LINE VOLTAGE (kV)		
	NEUTRAL / ADSS	34.5	115
OTHER AREAS TRANSVERSED BY VEHICLES, SUCH AS CULTIVATED, GRAZING, FOREST, AND ORCHARD LANDS, INDUSTRIAL SITES, COMERCIAL SITES, ETC	15.5	18.5	20.1

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



DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR
5	UPDATED PER PUC		10/12/21	GBS	CJN	CJN
4	RESUBMITTED TO PUC		10/01/21	GBS	CJN	JRS
3	UPDATED PER PUC		09/21	GBS	CJN	JRS
2	UPDATED PER ENVIRONMENTAL GROUP		07/21	GBS	CJN	JRS
1	ISSUED TO PUC		05/21	GBS	CJN	JRS

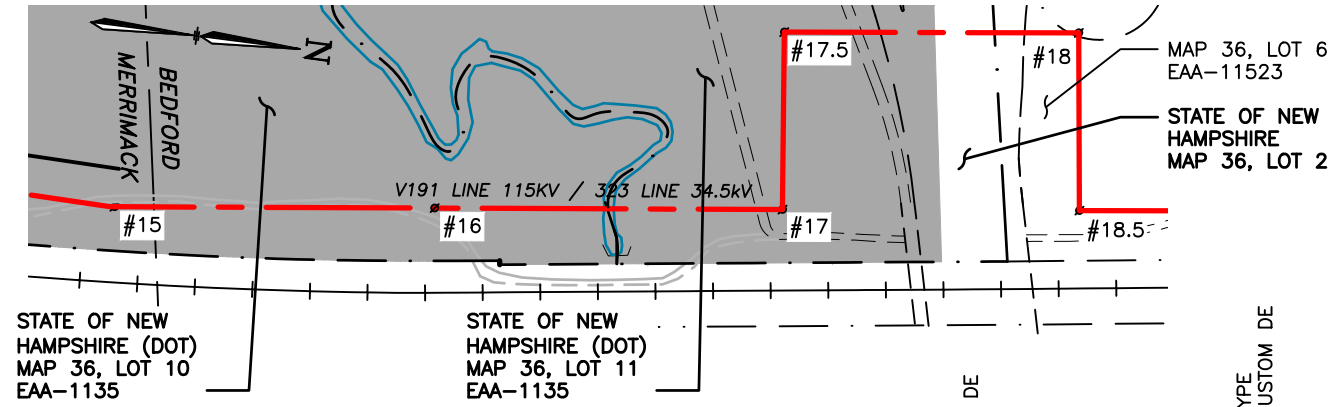
EVERSOURCE ENERGY

V191, 115kV & 323, 34.5kV LINE
STATE OWNED LAND CROSSING
MERRIMACK / BEDFORD, NEW HAMPSHIRE
EXHIBIT 2

SCALE: AS SHOWN
FILE: V19143501.DWG
DRAWING NO.: V19143501

T	5
DRAWN	GBS
ENGINEER	JRS
CHECKED	SDR
APPROVED	JRS
DATE	05/07/21

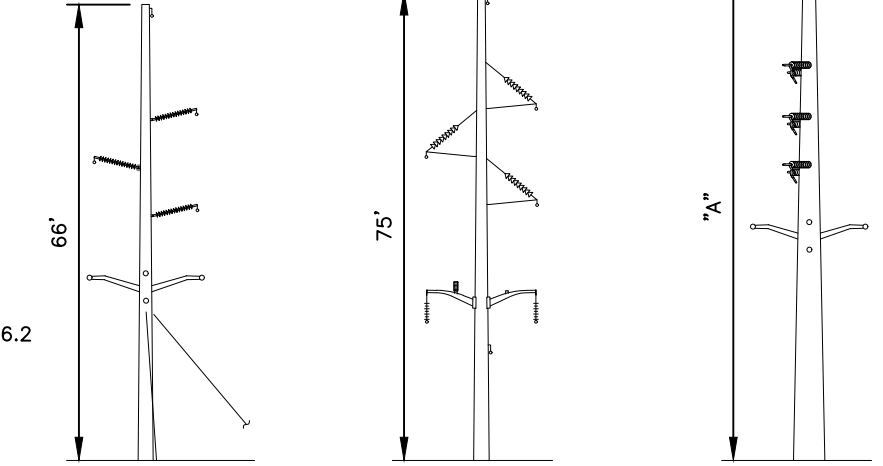
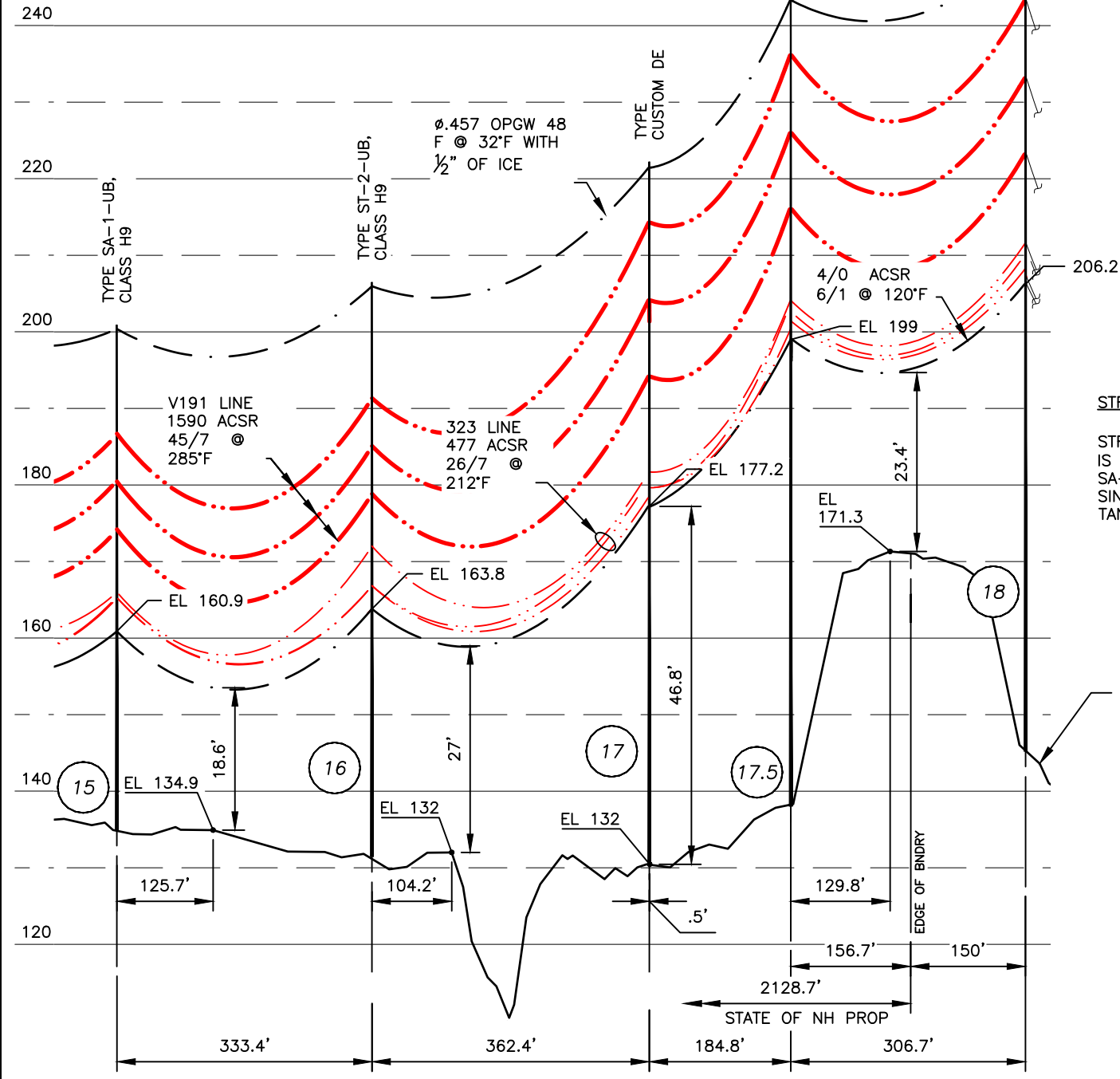
10/12/2021 3:35 PM - sullivan - C:\Users\sullivan\appdata\local\temp\AcPublish_17080\V19143501.dwg - EXHIBIT 3 (LAND CROSSING) (3) ES VER: 12/2016



PLAN VIEW
SCALE: 1" = 200'

DE STRUCTURE DIMENSIONS	
STR	"A" (FT)
17	91.8
17.5	106
18	106

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 1590 kcmil 45/7, LAPWING	10000	0	0.5	4
CONDUCTOR	3	ACSR, 477 kcmil 26/7, HAWK	4600	0	0.5	4
NEUTRAL	1	4/0 ACSR 6/1, PENGUIN	2500	0	0.5	4
OPGW	1	24F Ø0.571 AFL	3300	0	0.5	4



STRUCTURE TYPE SA-1-UB
STR'S 15: IS A EVERSOURCE TYPE SA-1-UB, DOUBLE CIRCUIT SINGLE STEEL POLE TANGENT, VERTICAL CONFIG

STRUCTURE TYPE ST-2-UB
STR'S 16: IS A EVERSOURCE TYPE ST-2-UB, DOUBLE CIRCUIT SINGLE STEEL POLE TANGENT, VERTICAL CONFIG

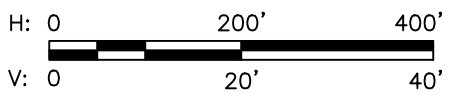
STRUCTURE TYPE CUSTOM DE
STR'S 17, 17.5, 18: IS A EVERSOURCE TYPE DE, CUSTOM ENGINEERED DOUBLE CIRCUIT SINGLE STEEL POLE DEAD END ANGLE, VERTICAL CONFIG

- LEGEND:**
- #16 STRUCTURE
 - STATE OF NEW HAMPSHIRE PROPERTY
 - PROP BOUNDARY
 - V191 LINE 115KV LINE, C OF CONST
 - LIMITS OF EVERSOURCE RIGHT OF WAY

- NOTES:**
- STATE PARCEL INFORMATION PROVIDED BY NH GRANIT.
 - RAILROAD PARCEL INFORMATION PROVIDED BY LIDAR SCAN IN COMBINATION WITH RIGHT OF WAY AND TRACK MAP V.21/12, DATED JUNE 30, 1914.
 - ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.

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NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	LINE VOLTAGE (kV)		
	NEUTRAL / ADSS	34.5	115
OTHER AREAS TRANSVERSED BY VEHICLES, SUCH AS CULTIVATED, GRAZING, FOREST, AND ORCHARD LANDS, INDUSTRIAL SITES, COMERCIAL SITES, ETC	15.5	18.5	20.1

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



DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR
4	UPDATED PER PUC		10/12/21	GBS	CJN	CJN
3	RESUBMITTED TO PUC		10/01/21	GBS	CJN	JRS
2	CORRECTED ERRORS IN DIMENSION CHART		09/21	GBS	CJN	JRS
1	ISSUED TO PUC		05/21	GBS	CJN	JRS

EVERSOURCE ENERGY

V191, 115kV & 323, 34.5kV LINE
STATE OWNED LAND CROSSING
MERRIMACK / BEDFORD, NEW HAMPSHIRE
EXHIBIT 3

SCALE AS SHOWN	FILE: V19143501.DWG IMAGE:	DRAWING NO. V19143501
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T 4	DRAWN GBS
	ENGINEER JRS
	CHECKED SDR
	APPROVED JRS
	DATE 05/07/21