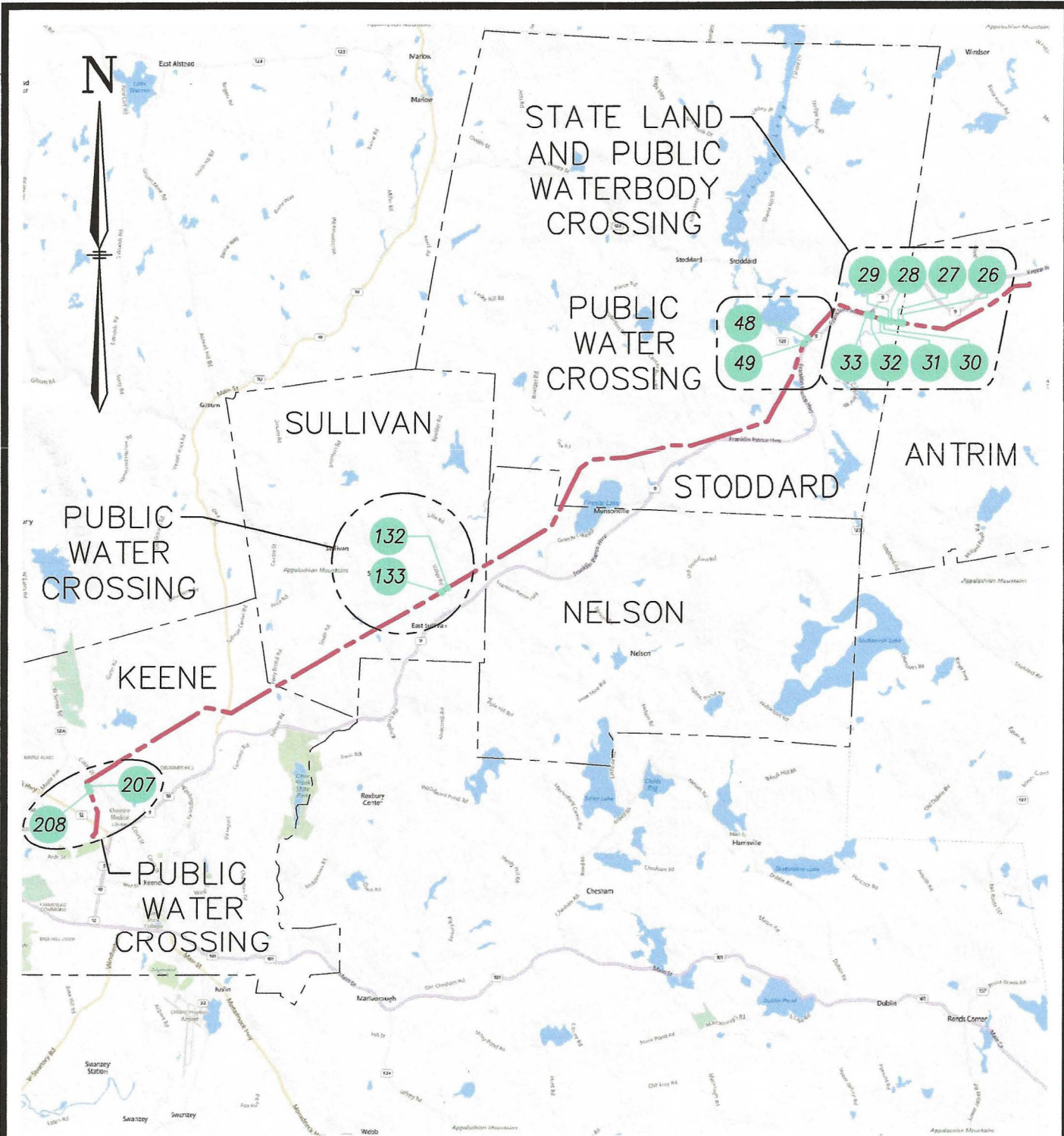




LEGEND:

L163 LINE: 

L163 STR: 

EVERSOURCE
ENERGY

LINE L163, 115kV LINE
STATE LAND AND PUBLIC WATERBODY CROSSING
ANTRIM, STODDARD, SULLIVAN AND KEENE, NEW HAMPSHIRE
EXHIBIT 1

T	1
DRAWN	SEK/TRC
ENGINEER	GEL/TRC
CHECKED	GEL/TRC
APPROVED	BRS/TRC
DATE	12/11/20

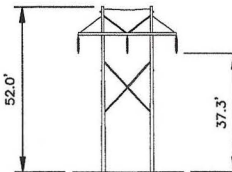
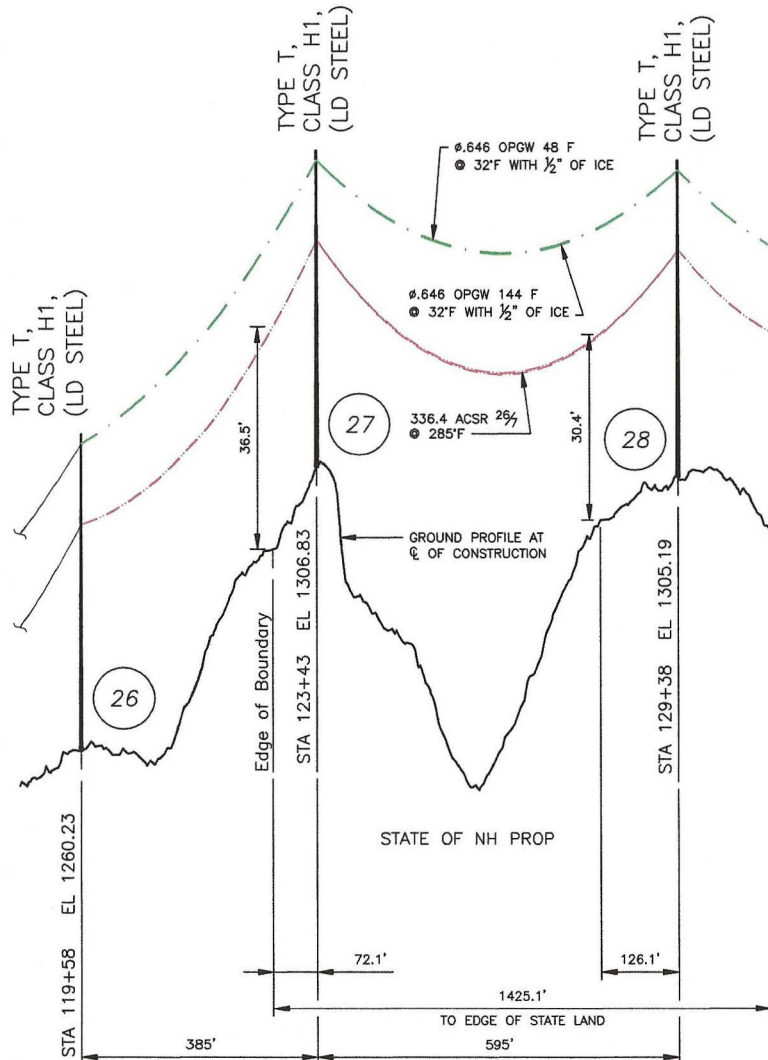
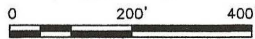
1	ISSUED TO PUC		12/20	SEK	GEL	BRS
DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR

SCALE	FILE: L16343501.DWG
1" = 12000'	IMAGE:

DRAWING NO.
L16343501

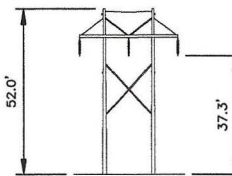
PROFILE VIEW

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



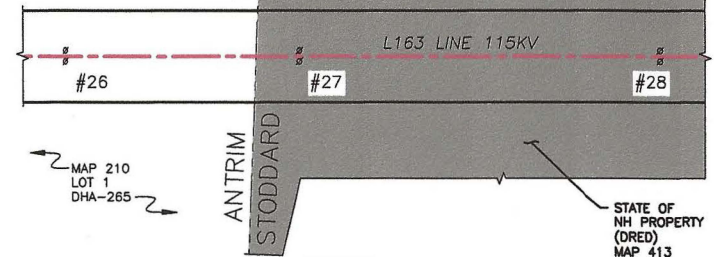
STRUCTURE 26
TYPE T

STR 26: IS AN EVERSOURCE
TYPE T, SINGLE CIRCUIT
TANGENT STEEL STRUCTURE,
HORIZONTAL CONFIG.



STRUCTURE 27
TYPE T

STR 27: IS AN EVERSOURCE
TYPE T, SINGLE CIRCUIT
TANGENT STEEL STRUCTURE,
HORIZONTAL CONFIG.



PLAN VIEW

SCALE: 1" = 200'

LEGEND:

#26 STRUCTURE

STATE OF NEW HAMPSHIRE
PROPERTY

PROPERTY BOUNDARY

L163 LINE 115KV

LINE, C OF CONSTRUCTION

LIMITS OF EVERSOURCE
RIGHT OF WAY

STRUCTURE LOCATION

STRUCTURE	LONGITUDE	LATITUDE
26	-72.04525006	43.06457063
27	-72.04667619	43.06472036
28	-72.04887928	43.06495164

NESC VERTICAL CLEARANCE (FT) FROM TABLE 232.1

NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115KV
ROADS, STREETS AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC	20.1

NOTES:

1. PARCEL INFORMATION PROVIDED BY NH GRANIT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN
VERTICAL DATUM OF 1988.

STRUCTURE DETAILS

SCALE: NTS

CABLE SCHEDULE

WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 336.4 kcmil 26/7, UNNET	4500	0	0.5	4
OPGW	1	48F 0.646 AFL S3-81/69/646	5000	0	0.5	4
OPGW	1	144F 0.646 AFL S3-81/51/646	5000	0	0.5	4

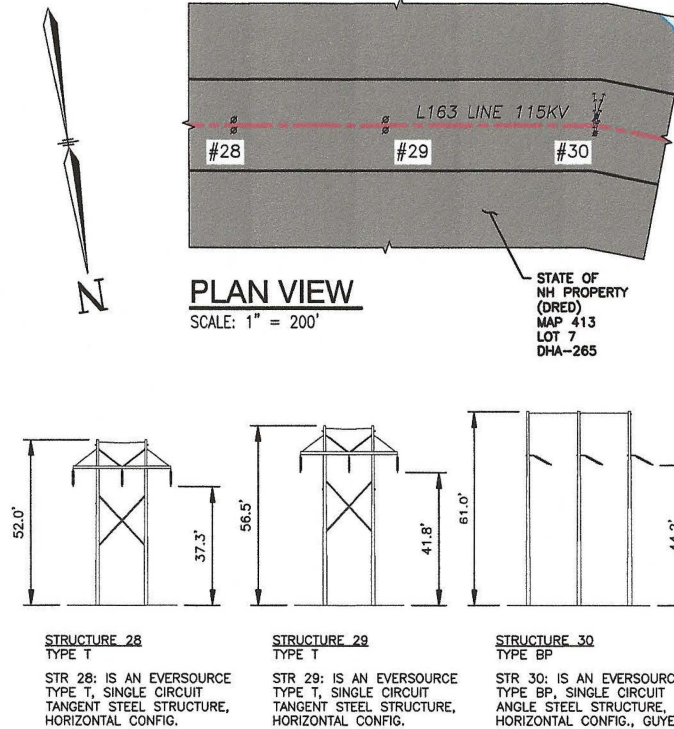
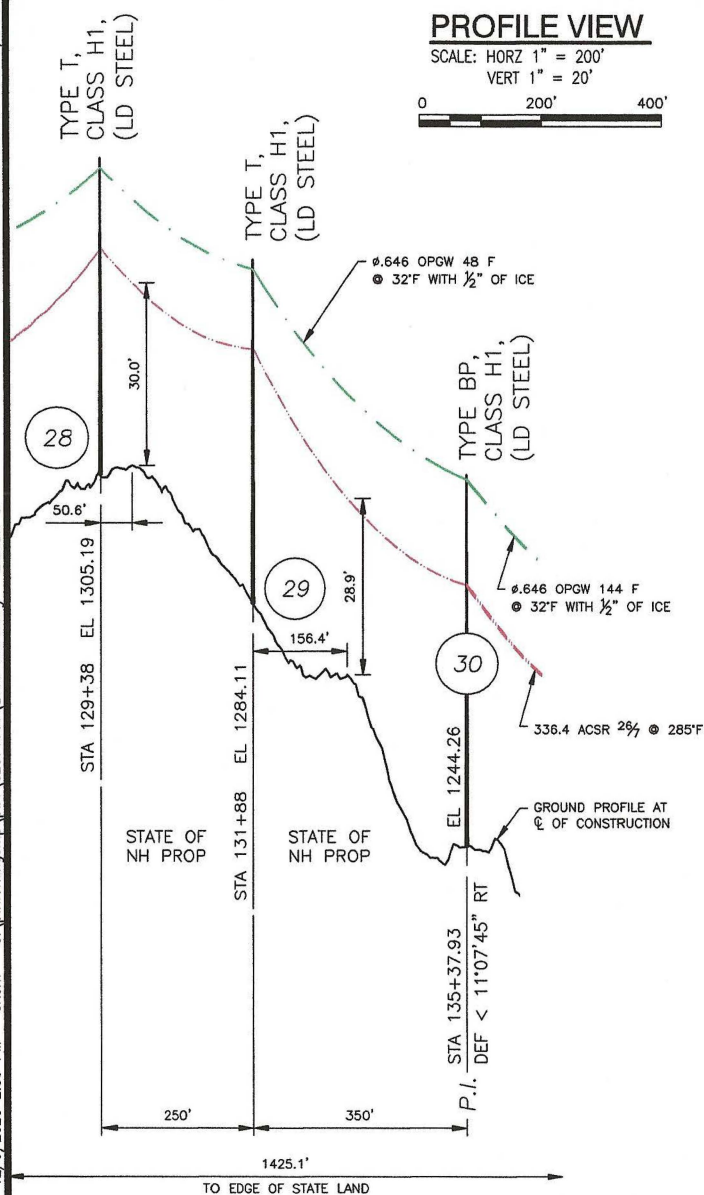
EVERSOURCE
ENERGY

LINE L163, 115kV LINE
STATE LAND CROSSING
ANTRIM & STODDARD, NEW HAMPSHIRE
EXHIBIT 2

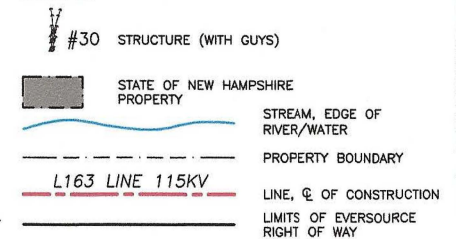
T	1
DRAWN	SEK/TRC
ENGINEER	GEL/TRC
CHECKED	GEL/TRC
APPROVED	BRS/TRC
DATE	12/11/20

1	ISSUED TO PUC	12/20	SEK	GEL	BRS
DWG REV	EPN/DESCRIPTION	CONT/PE/DATE	DRN	CHKD	APPR

SCALE: AS SHOWN
FILE: L16343501.DWG
DRAWING NO.: L16343501



LEGEND:



STRUCTURE LOCATION		
STRUCTURE	LONGITUDE	LATITUDE
28	-72.04887928	43.06495164
29	-72.04980813	43.06504914
30	-72.05110780	43.06517037

NESC VERTICAL CLEARANCE (FT)	
FROM TABLE 232.1	
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115KV
ROADS, STREETS AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC	20.1
WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAIL BOATING IS PROHIBITED	18.6

NOTES:

1. PARCEL INFORMATION PROVIDED BY NH GRANIT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 01/16/2020.

STRUCTURE DETAILS

SCALE: NTS

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 336.4 kmil 26/7, LINNET	4500	0	0.5	4
OPGW	1	48F #0.646 AFL S3-81/69/646	5000	0	0.5	4
OPGW	1	144F #0.646 AFL S3-81/51/646	5000	0	0.5	4

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EVERSOURCE ENERGY

LINE L163, 115KV LINE
STATE LAND CROSSING
STODDARD, NEW HAMPSHIRE
EXHIBIT 3

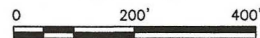
SCALE AS SHOWN	FILE: L16343501.DWG	DRAWING NO. L16343501
----------------	---------------------	-----------------------

T	1
DRAWN	SEK/TRC
ENGINEER	GEL/TRC
CHECKED	GEL/TRC
APPROVED	BRS/TRC
DATE	12/11/20

STRUCTURE LOCATION		
STRUCTURE	LONGITUDE	LATITUDE
30	-72.05110780	43.06517037
31	-72.05235056	43.06550492
32	-72.00513318	43.06621832

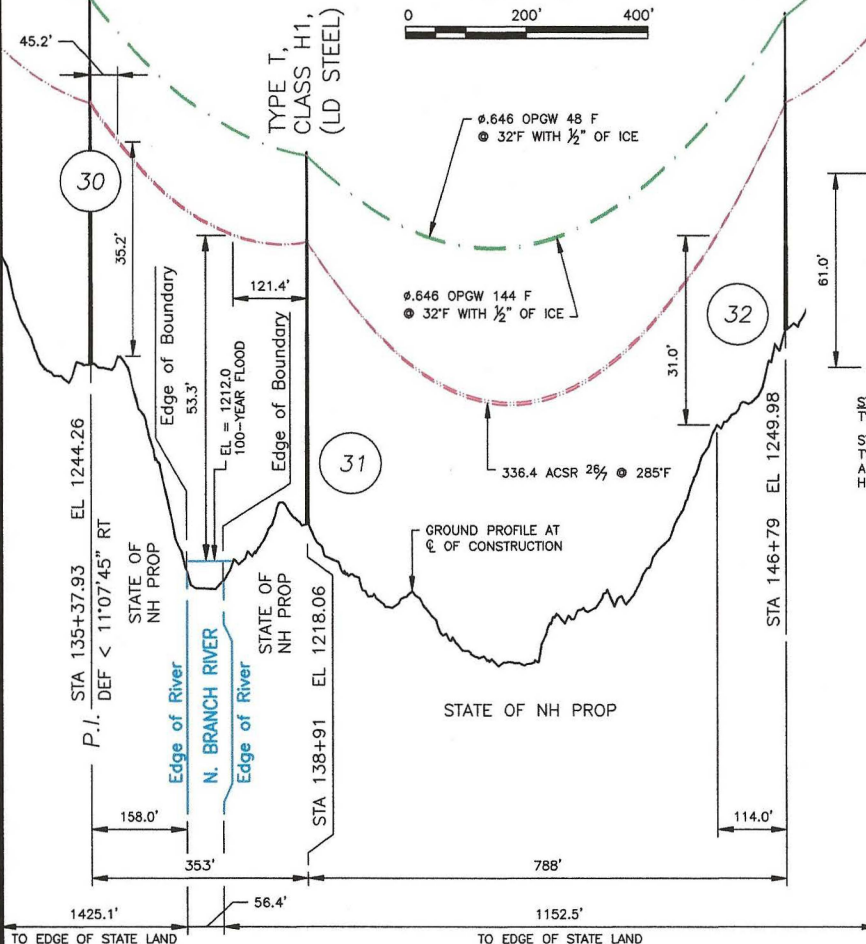
PROFILE VIEW

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

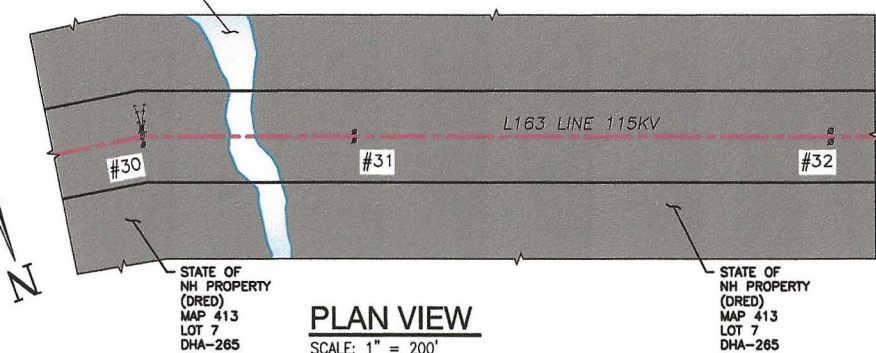


TYPE T,
CLASS H1,
(LD STEEL)

TYPE BP,
CLASS H1,
(LD STEEL)



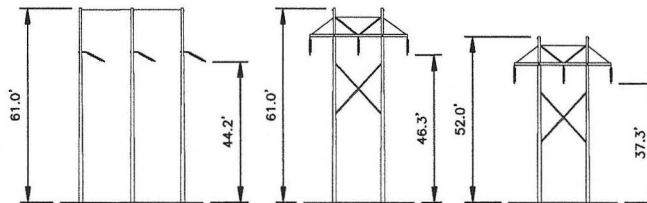
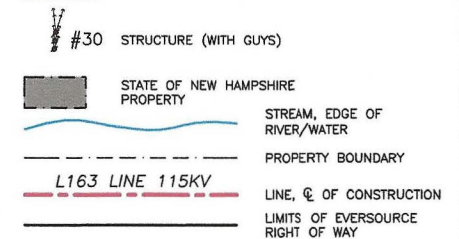
N. BRANCH RIVER



PLAN VIEW

SCALE: 1" = 200'

LEGEND:



STRUCTURE 30
TYPE BP

STR 30: IS AN EVERSOURCE
TYPE BP, SINGLE CIRCUIT
ANGLE STEEL STRUCTURE,
HORIZONTAL CONFIG., GUYED.

STRUCTURE 31
TYPE T

STR 31: IS AN EVERSOURCE
TYPE T, SINGLE CIRCUIT
TANGENT STEEL STRUCTURE,
HORIZONTAL CONFIG.

STRUCTURE 32
TYPE T

STR 32: IS AN EVERSOURCE
TYPE T, SINGLE CIRCUIT
TANGENT STEEL STRUCTURE,
HORIZONTAL CONFIG.

STRUCTURE DETAILS

SCALE: NTS

CABLE SCHEDULE

WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 336.4 kcmil 26/7, LINNET	4500	0	0.5	4
OPGW	1	48F #0.646 AFL S3-81/69/646	5000	0	0.5	4
OPGW	1	144F #0.646 AFL S3-81/51/646	5000	0	0.5	4

NESC VERTICAL CLEARANCE (FT)

FROM TABLE 232.1	
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115KV
ROADS, STREETS AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC	20.1
WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAIL BOATING IS PROHIBITED	18.6

NOTES:

1. PARCEL INFORMATION PROVIDED BY NH GRANIT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 01/16/2020.

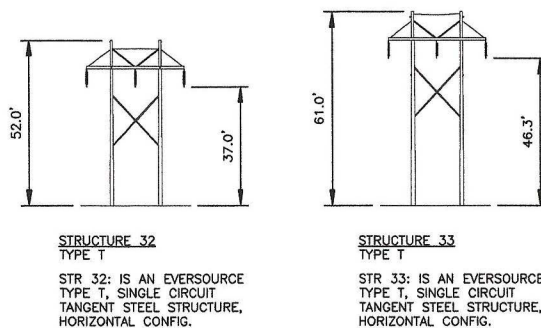
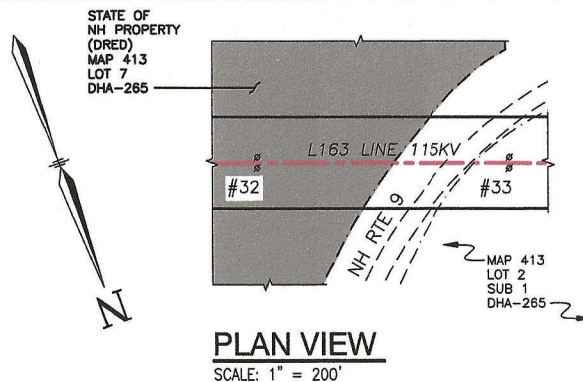
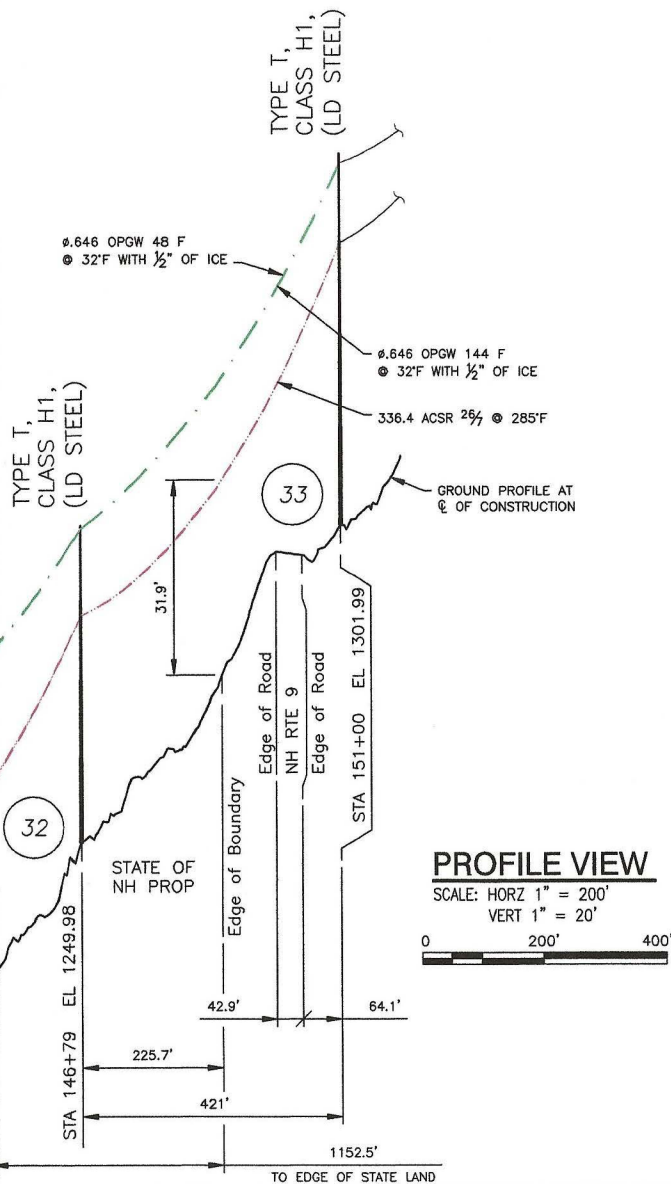
EVERSOURCE ENERGY

LINE L163, 115KV LINE
N. BRANCH RIVER, WATERBODY & STATE LAND CROSSING
STODDARD, NEW HAMPSHIRE
EXHIBIT 4

T	1
DRAWN	SEK/TRC
ENGINEER	GEL/TRC
CHECKED	GEL/TRC
APPROVED	BRS/TRC
DATE	12/11/20

1	ISSUED TO PUC	12/20	SEK	GEL	BRS
DWG REV	EPN/DESCRIPTION	CONT/PEA	DATE	DRN	CHKD

SCALE: AS SHOWN
FILE: L16343501.DWG
DRAWING NO.: L16343501



STRUCTURE DETAILS

SCALE: NTS

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 336.4 kcmil 26/7, LINNET	4500	0	0.5	4
OPGW	1	48F 0.646 AFL S3-81/69/646	5000	0	0.5	4
OPGW	1	144F 0.646 AFL S3-81/51/646	5000	0	0.5	4

LEGEND:

#33 STRUCTURE

STATE OF NEW HAMPSHIRE
PROPERTY

PROPERTY BOUNDARY

L163 LINE 115KV

LINE, C OF CONSTRUCTION

LIMITS OF EVERSOURCE
RIGHT OF WAY

STRUCTURE LOCATION		
STRUCTURE	LONGITUDE	LATITUDE
32	-72.05513318	43.06621832
33	-72.05662032	43.06659955

NESC VERTICAL CLEARANCE (FT)	
FROM TABLE 232.1	
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115KV
ROADS, STREETS AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC	20.1

NOTES:

1. PARCEL INFORMATION PROVIDED BY NH GRANIT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.

EVERSOURCE
ENERGY

LINE L163, 115kV LINE
STATE LAND CROSSING
STODDARD, NEW HAMPSHIRE
EXHIBIT 5

T	1
DRAWN	SEK/TRC
ENGINEER	GEL/TRC
CHECKED	GEL/TRC
APPROVED	BRS/TRC
DATE	12/11/20

1	ISSUED TO PUC		12/20	SEK	GEL	BRS
DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR

SCALE	FILE: L16343501.DWG
AS SHOWN	IMAGE

DRAWING NO.	L16343501
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Exhibit 5A - Site Location Map

Line L163, 115kV

State Land and North Branch River Waterbody Crossing

Antrim and Stoddard, New Hampshire

Image credit: Google Earth (2017)

Structure 26: -72.04525006, 43.06457063

Structure 27: -72.04667619, 43.06472036

Structure 28: -72.04887928, 43.06495164

Structure 29: -72.04980813, 43.06504914

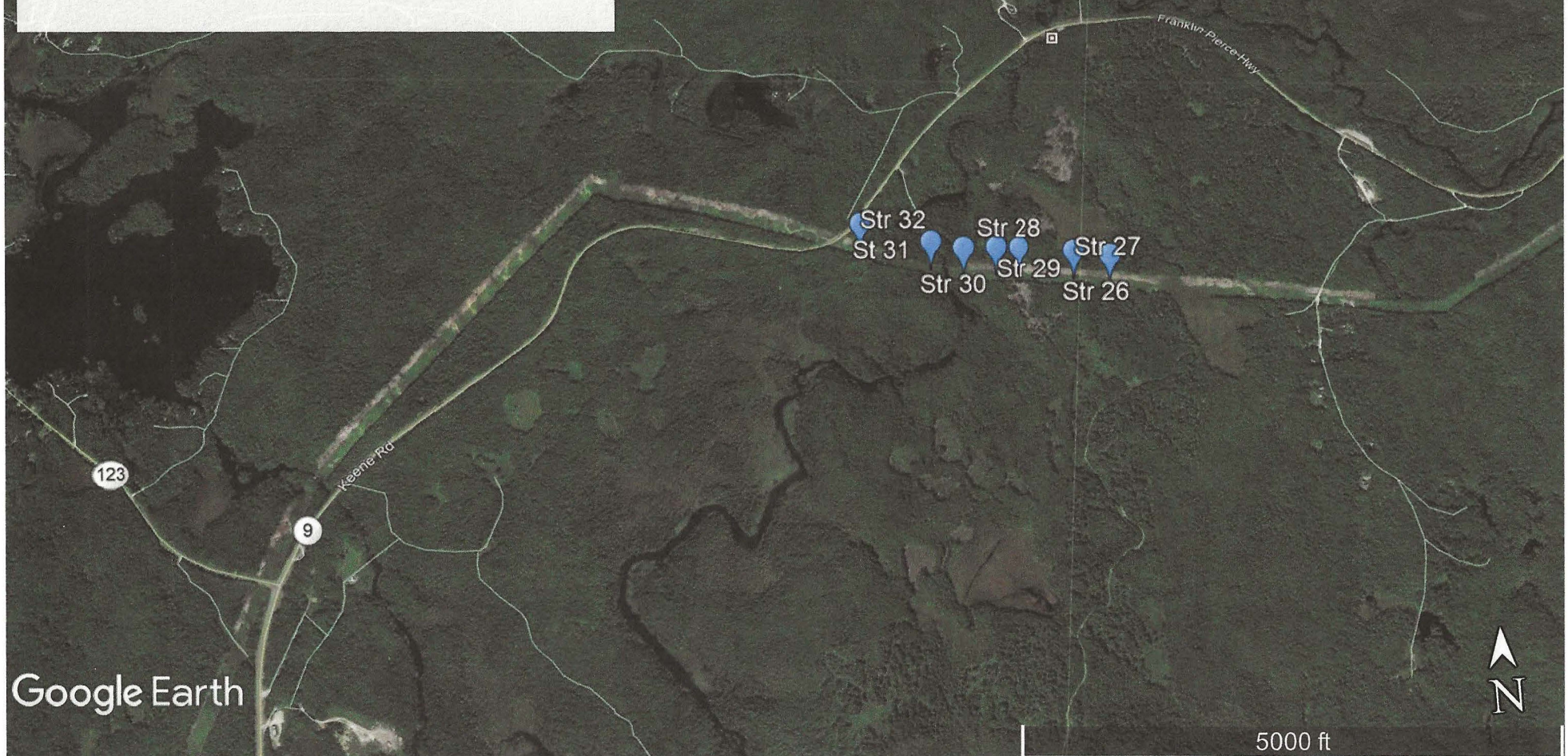
Structure 30: -72.05110780, 43.06517037

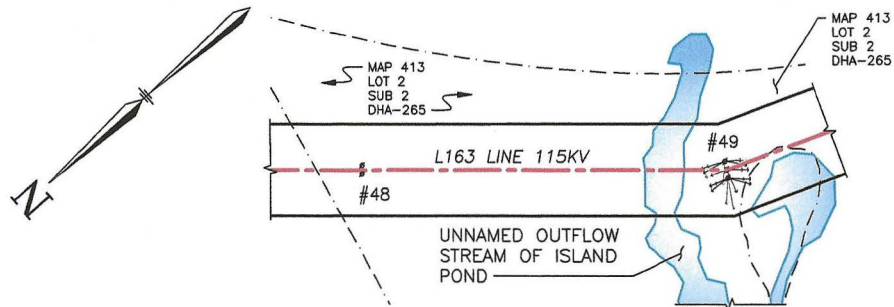
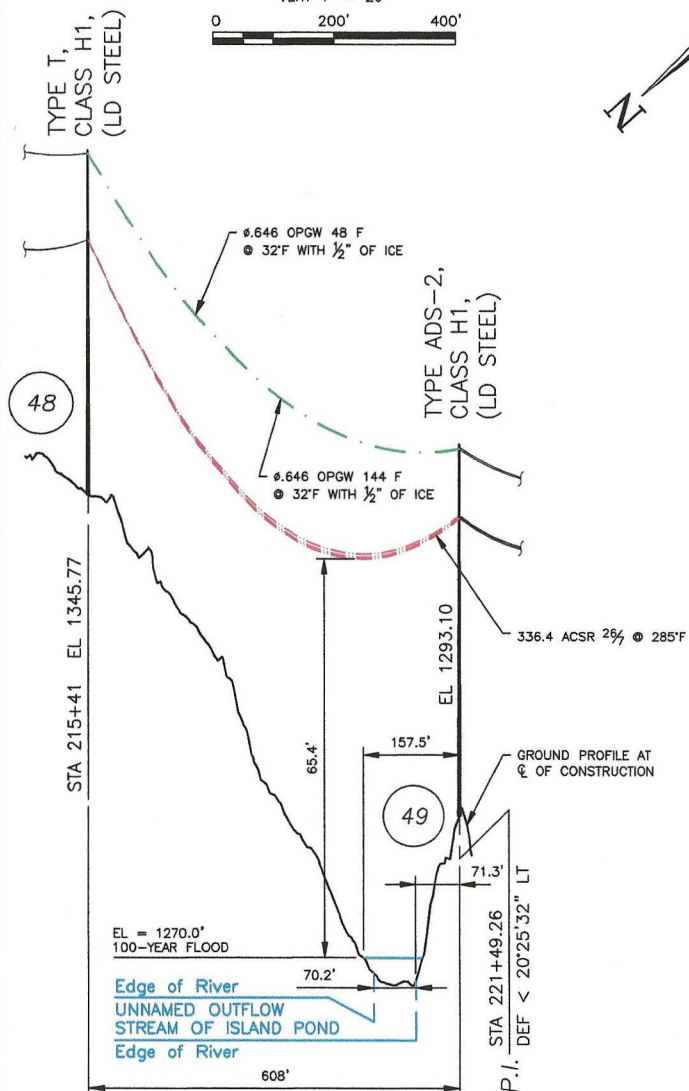
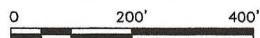
Structure 31: -72.05235056, 43.06550492

Structure 32: -72.00513318, 43.06621832

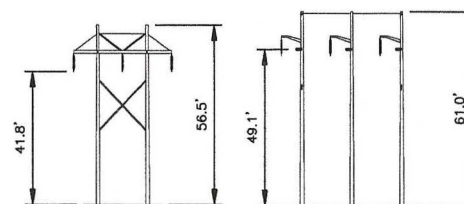
Legend

-  Stone Arch Bridge
-  Structures, Line 163



PROFILE VIEWSCALE: HORIZ 1" = 200'
VERT 1" = 20'**PLAN VIEW**

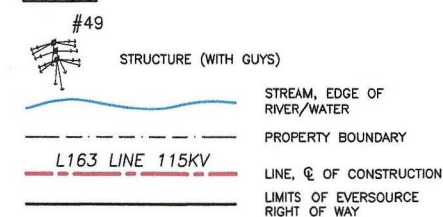
SCALE: 1" = 200'

**STRUCTURE 48**
TYPE TSTR 48: IS AN EVERSOURCE
TYPE T, SINGLE CIRCUIT
TANGENT STEEL STRUCTURE,
HORIZONTAL CONFIG.**STRUCTURE 49**
TYPE ADS-2STR 49: IS AN EVERSOURCE
TYPE ADS-2, SINGLE CIRCUIT
DEADEND STEEL STRUCTURE,
HORIZONTAL CONFIG., GUYED.**STRUCTURE DETAILS**

SCALE: NTS

CABLE SCHEDULE

WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 338.4 kcmil 26/7, LINNET	4500	0	0.5	4
OPGW	1	48F #0.646 AFL S3-81/69/646	5000	0	0.5	4
OPGW	1	144F #0.646 AFL S3-81/51/646	5000	0	0.5	4

LEGEND:**STRUCTURE LOCATION**

STRUCTURE	LONGITUDE	LATITUDE
48	-72.07518214	43.06098880
49	-72.07666392	43.05972351

NESC VERTICAL CLEARANCE (FT)
FROM TABLE 232.1

NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115KV
WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAIL BOATING IS PROHIBITED	18.6

NOTES:

1. PARCEL INFORMATION PROVIDED BY NH GRANIT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 01/16/2020.

EVERSOURCE
ENERGYLINE L163, 115KV LINE
UNNAMED OUTFLOW STREAM OF ISLAND POND, WATERBODY CROSSING
STODDARD, NEW HAMPSHIRE
EXHIBIT 6SCALE
AS SHOWNFILE: L16343901.DWG
IMAGE:DRAWING NO.
L16343901

T	1
DRAWN	JAM/TRC
ENGINEER	GEL/TRC
CHECKED	SEK/TRC
APPROVED	BRS/TRC
DATE	12/11/20

Exhibit 6A - Site Location Map

Line L163, 115kV

Outflow of Island Pond Waterbody Crossing

Stoddard, New Hampshire

Image credit: Google Earth (2017)

Legend

-  Davis Public Library
-  Pitcher Mountain Realtors
-  Stoddard Congregational Church
-  Stone Arch Bridge
-  Structures, Line L163

Str 49 (-72.07666392, 43.05972351)

Str 48 (-72.07518214, 43.06098880)

123

9

Keene Rd

Franklin Pierce Hwy

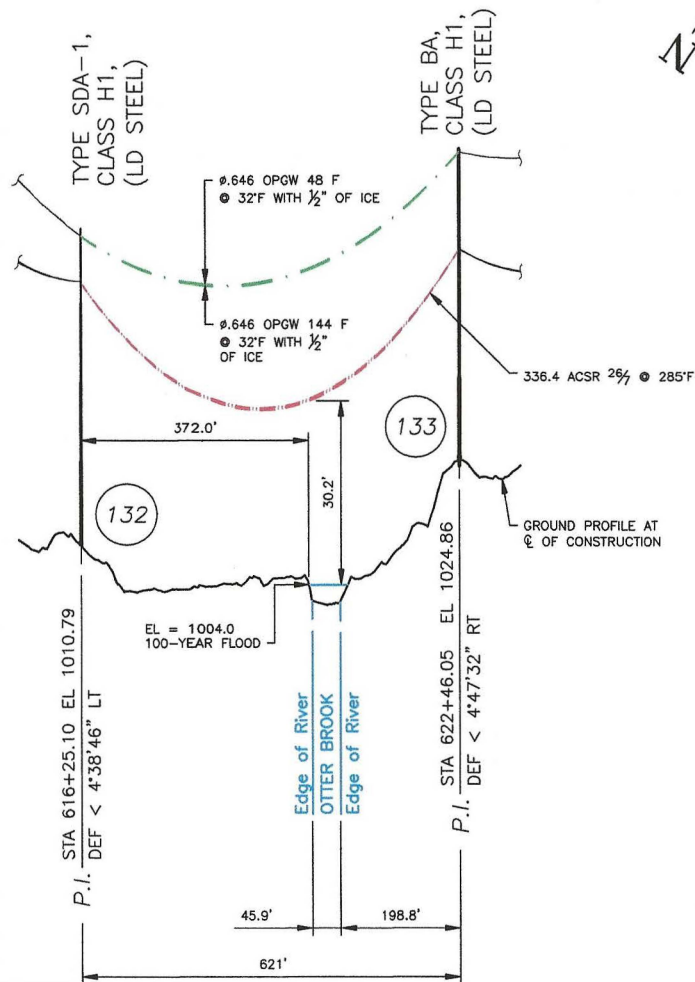
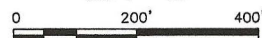
Google Earth

1 mi



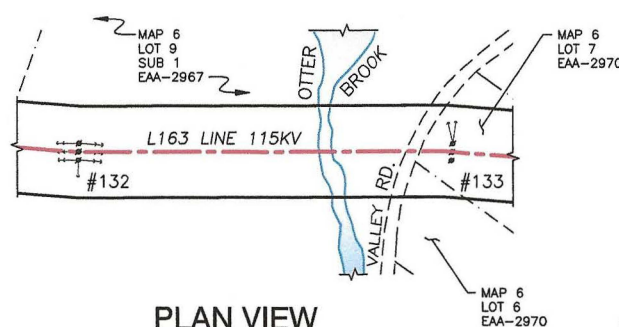
PROFILE VIEW

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

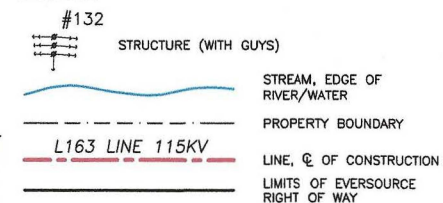


PLAN VIEW

SCALE: 1" = 200'



LEGEND:



STRUCTURE LOCATION

STRUCTURE	LONGITUDE	LATITUDE
132	-72.18881215	43.00267702
133	-72.19071266	43.00169940

NESC VERTICAL CLEARANCE (FT) FROM TABLE 232.1

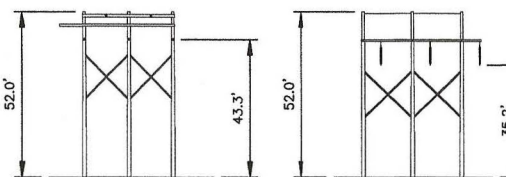
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115KV
WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAIL BOATING IS PROHIBITED	18.6

NOTES:

1. PARCEL INFORMATION PROVIDED BY NH GRANIT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 01/16/2020.

STRUCTURE DETAILS

SCALE: NTS



STRUCTURE 132 TYPE SDA-1

STR 132: IS AN EVERSOURCE TYPE SDA-1, SINGLE CIRCUIT DEADEND STEEL STRUCTURE, HORIZONTAL CONFIG., GUYED.

STRUCTURE 133 TYPE BA

STR 133: IS AN EVERSOURCE TYPE BA, SINGLE CIRCUIT TANGENT STEEL STRUCTURE, HORIZONTAL CONFIG., GUYED.

CABLE SCHEDULE

WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 336.4 kcmil 26/7, LINNET	4500	0	0.5	4
OPGW	1	48F #0.646 AFL S3-81/69/646	5500	0	0.5	4
OPGW	1	144F #0.646 AFL S3-81/51/646	5500	0	0.5	4

EVERSOURCE ENERGY

LINE L163, 115KV LINE
OTTER BROOK, WATERBODY CROSSING
SULLIVAN, NEW HAMPSHIRE
EXHIBIT 7

T	1
DRAWN	JAM/TRC
ENGINEER	GEL/TRC
CHECKED	SEK/TRC
APPROVED	BRS/TRC
DATE	12/11/20

1	ISSUED TO PUC	12/20	JAM	SEK	BRS
DWG REV	EPN/DESCRIPTION	DATE	DRN	CHKD	APPR

SCALE	AS SHOWN	FILE: L16343902.DWG	DRAWING NO.	L16343902
DATE	12/11/20	NAME:		

Exhibit 7A - Site Location Map

Line L163, 115 kV
Otter Brook Waterbody Crossing
Sullivan, New Hampshire
Image Credit: Google Earth (2019)

Legend

-  Structures, Line L163
-  Sullivan Congregational Church
-  Sullivan Public Library

Str 132 (-72.18881215, 43.00267702) Str 133 (-72.19071266, 43.00169940)

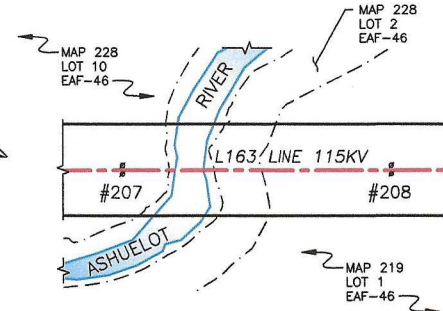
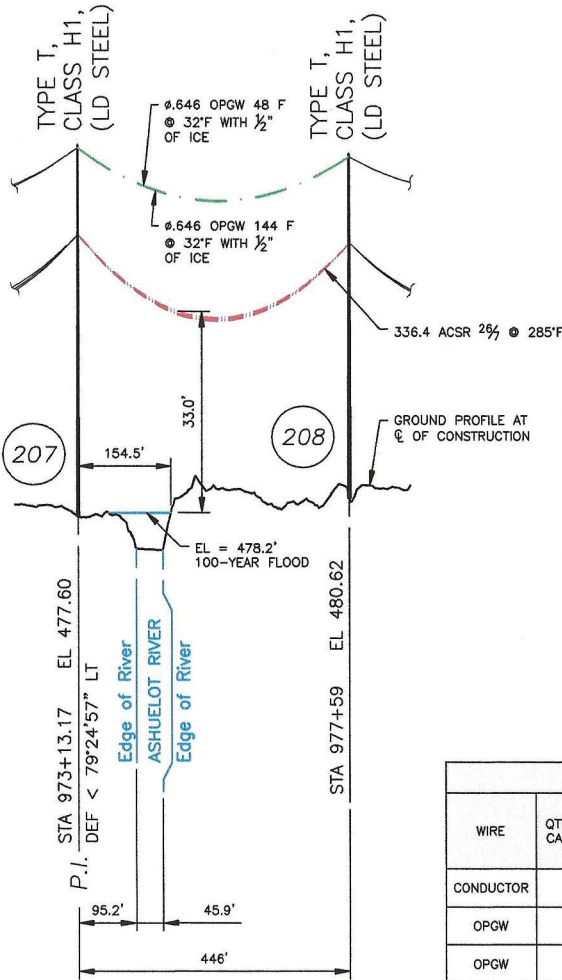
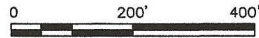
Google Earth

1 mi

N

PROFILE VIEW

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



PLAN VIEW

SCALE: 1" = 200'

LEGEND:

- #207 STRUCTURE
- STREAM, EDGE OF RIVER/WATER
- PROPERTY BOUNDARY
- L163 LINE 115KV
- LINE, C OF CONSTRUCTION
- LIMITS OF EVERSOURCE RIGHT OF WAY

STRUCTURE LOCATION

STRUCTURE	LONGITUDE	LATITUDE
207	-72.30201207	42.95579255
208	-72.30140992	42.95465270

NESC VERTICAL CLEARANCE (FT) FROM TABLE 232.1

NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115kv
WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAIL BOATING IS PROHIBITED	18.6

NOTES:

- PARCEL INFORMATION PROVIDED BY NH GRANIT.
- ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 01/16/2020.

CABLE SCHEDULE

WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 336.4 kcmil 26/7, LINNET	4500	0	0.5	4
OPGW	1	48F #0.646 AFL S3-81/69/646	5000	0	0.5	4
OPGW	1	144F #0.646 AFL S3-81/51/646	5000	0	0.5	4

STRUCTURE 207 TYPE T

STR 207: IS AN EVERSOURCE TYPE T, SINGLE CIRCUIT TANGENT STEEL STRUCTURE, HORIZONTAL CONFIG.

STRUCTURE 208 TYPE T

STR 208: IS AN EVERSOURCE TYPE T, SINGLE CIRCUIT TANGENT STEEL STRUCTURE, HORIZONTAL CONFIG.

STRUCTURE DETAILS

SCALE: NTS

1	ISSUED TO PUC		12/20	JAM	SEK				BR
DWG REV	EPN/DESCRIPTION	CONT/PEP	DATE	DRN	CHKD				APPR

EVERSOURCE ENERGY

LINE L163, 115kv LINE
ASHUELOT RIVER, WATERBODY CROSSING
KEENE, NEW HAMPSHIRE
EXHIBIT 8

SCALE AS SHOWN	FILE: L16343903.DWG IMAGE:	DRAWING NO. L16343903
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T	1
DRAWN	JAM/TRC
ENGINEER	GEL/TRC
CHECKED	SEK/TRC
APPROVED	BRS/TRC
DATE	12/11/20

Exhibit 8A - Site Location Map

Line L163, 115 kV
Ashuelot River Waterbody Crossing
Keene, New Hampshire
Image Credit: Google Earth (2019)

Legend

-  Cheshire Medical Center
-  Court Street Veterinary Hospital
-  Daniels School
-  First Baptist Church of Keene
-  Mark Corliss, Multi-media Creations
-  Norris Cotton Cancer Center
-  Structures, Line L163
-  TD Bank
-  University of New Hampshire Cooperative Extension - Cheshire County

Str 207 (-72.30201207, 42.95579255)

Str 208 (-72.30140992, 42.95465270)

Keene

Google Earth

1 mi

