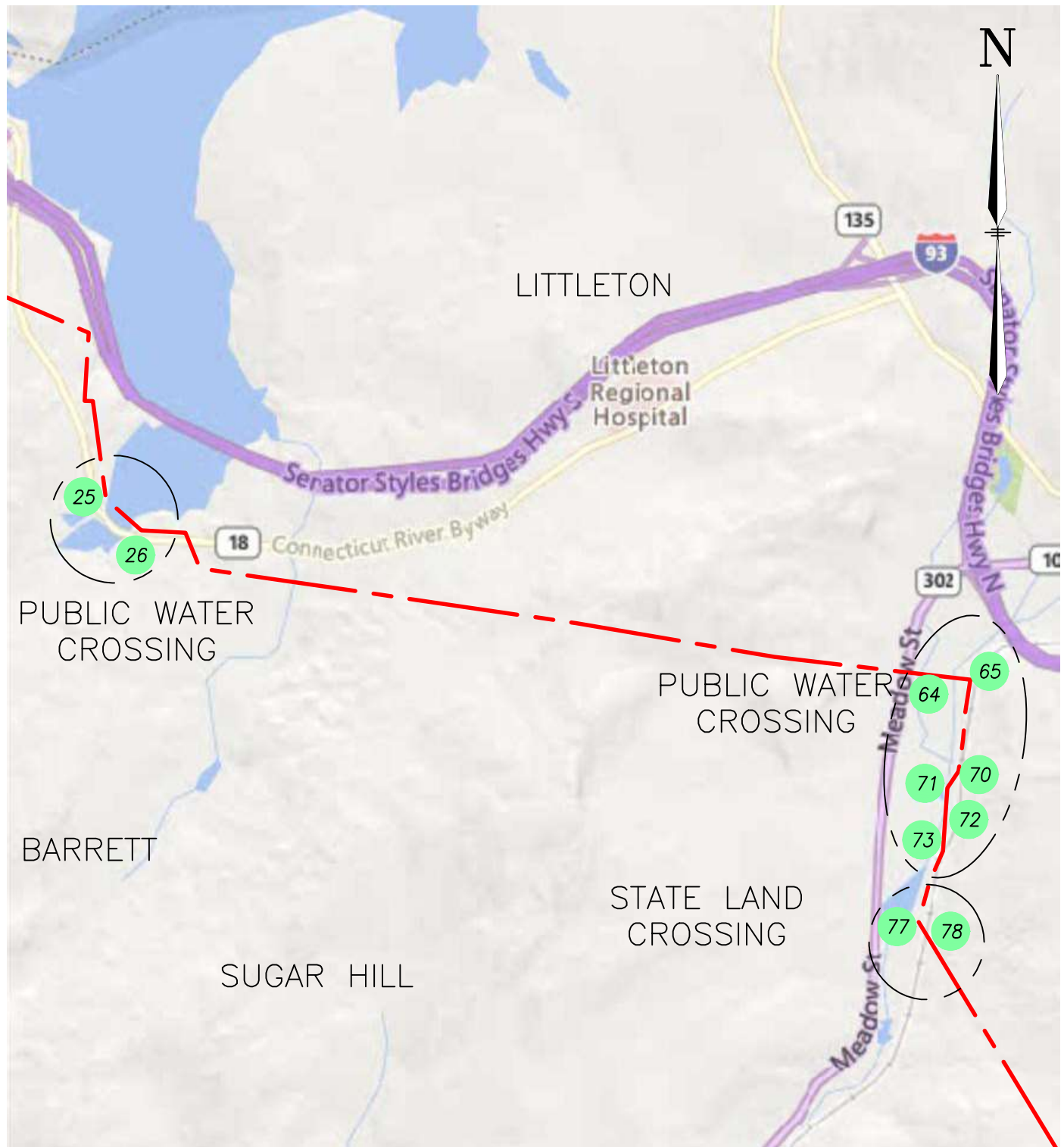


12/27/2023 4:55 PM - NickB - C:\Users\NickB\appdata\local\temp\AcPublish_4348\04091-81001.dwg - EXHIBIT 1 (LAND CROSSING) ES VER: 12/2016



LEGEND:

U199 LINE: 

U199 STR: 

EVERSOURCE
ENERGY

U199 115kV LINE
STATE LAND, PUBLIC WATER CROSSING
LITTLETON, NEW HAMPSHIRE
EXHIBIT 1

T	1
DRAWN	NEB
ENGINEER	CRP
CHECKED	JJD
APPROVED	KJD
DATE	12/07/21

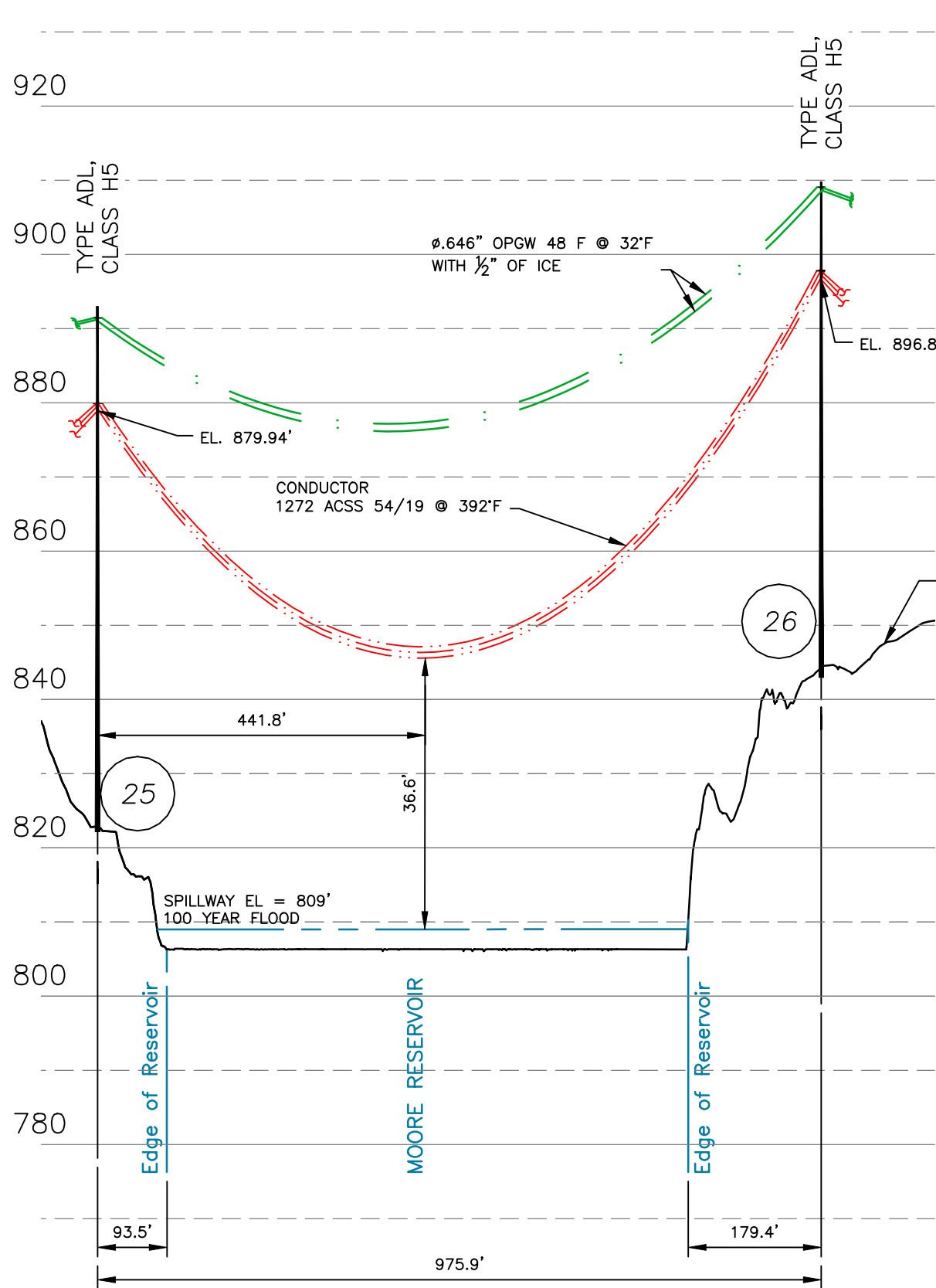
1	ISSUED FOR DOE		12/29/23	NEB	CRP	KJD
DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR

SCALE
1" = 3000'

FILE: 04091-81001.DWG
IMAGE:

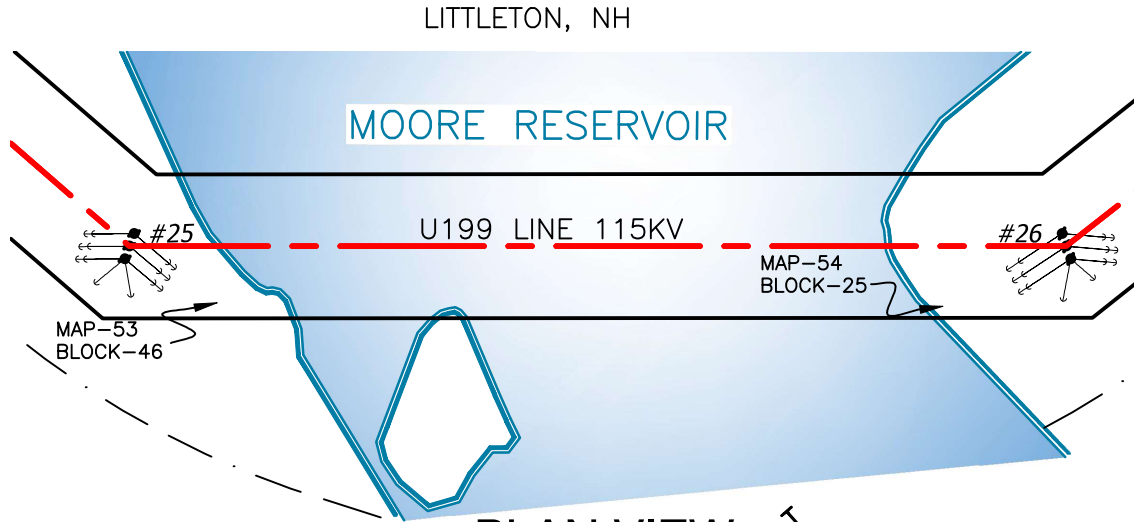
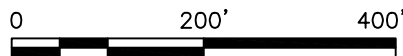
DRAWING NO.
04091-81001

12/27/2023 4:56 PM - NickB - C:\Users\NickB\appdata\local\temp\AcPublish_4348\04091-82001.dwg - EXHIBIT 2 (WATER CROSSING) ES VER: 12/2016



PROFILE VIEW

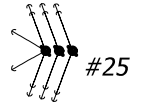
SCALE: HORZ 1" = 200'
VERT 1" = 20'



PLAN VIEW

SCALE: 1" = 200'

LEGEND:



STRUCTURE (WITH GUYS)

PROPERTY BOUNDARY

U199 LINE 115KV

LINE, CL OF CONSTRUCTION

LIMITS OF EVERSOURCE
RIGHT OF WAY

WATERBODY

STRUCTURE LOCATION

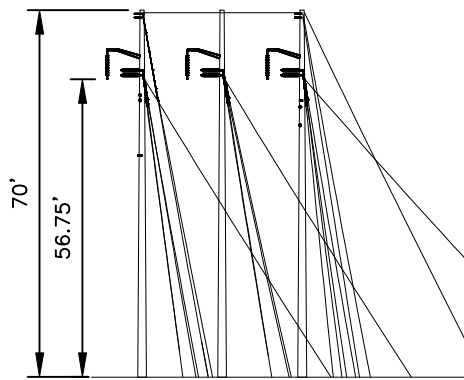
STRUCTURE	LONGITUDE	LATITUDE
25	-71.86767251	44.31223873
26	-71.86487223	44.31047127

NESC VERTICAL CLEARANCE (FT)
FROM TABLE 232.1, C2-2012

NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115kV
WATER AREAS SUITABLE FOR SAIL BOATING INCLUDING LAKES, PONDS, RESERVOIRS, TIDAL WATERS, RIVERS, STREAMS AND CANALS WITH AN UNOBSTRUCTED SURFACE ARE OF 20 TO 200 ACRES	30.1

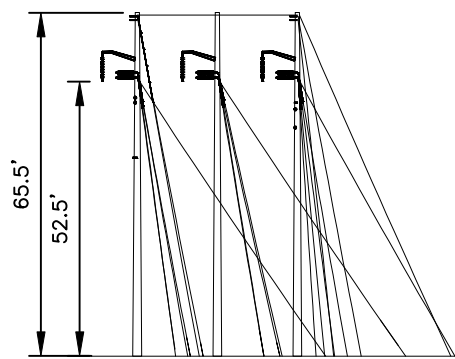
CABLE SCHEDULE

WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSS, 1272 kcmil 54/19, PHEASANT	12000	0	0.5	4
OPGW	2	48F Ø0.646" AFL DNO-11852	8000	0	0.5	4



STRUCTURE 25
TYPE ADL

STR 25: IS A EVERSOURCE TYPE ADL,
SINGLE CIRCUIT STEEL POLE DEAD
END ANGLE, HORIZONTAL CONFIG.,
GUYED.



STRUCTURE 26
TYPE ADL

STR 26: IS A EVERSOURCE TYPE ADL,
SINGLE CIRCUIT STEEL POLE DEAD
END ANGLE, HORIZONTAL CONFIG.,
GUYED.

STRUCTURE DETAIL

SCALE: NTS

NOTES:

1. PARCEL INFORMATION PROVIDED BY NH GRANIT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. PER 2012 NESC, TABLE 232-1, NOTE 17, THE WATER ELEVATION IS BASED UPON THE DESIGN HIGH WATER LEVEL OF THE MOORE RESERVOIR DAM.

EVERSOURCE
ENERGY

U199, 115kV LINE
MOORE RESERVOIR, PUBLIC WATER CROSSING
LITTLETON, NEW HAMPSHIRE
EXHIBIT 2

T	1
DRAWN	NEB
ENGINEER	CRP
CHECKED	JJD
APPROVED	CRP
DATE	12/07/21

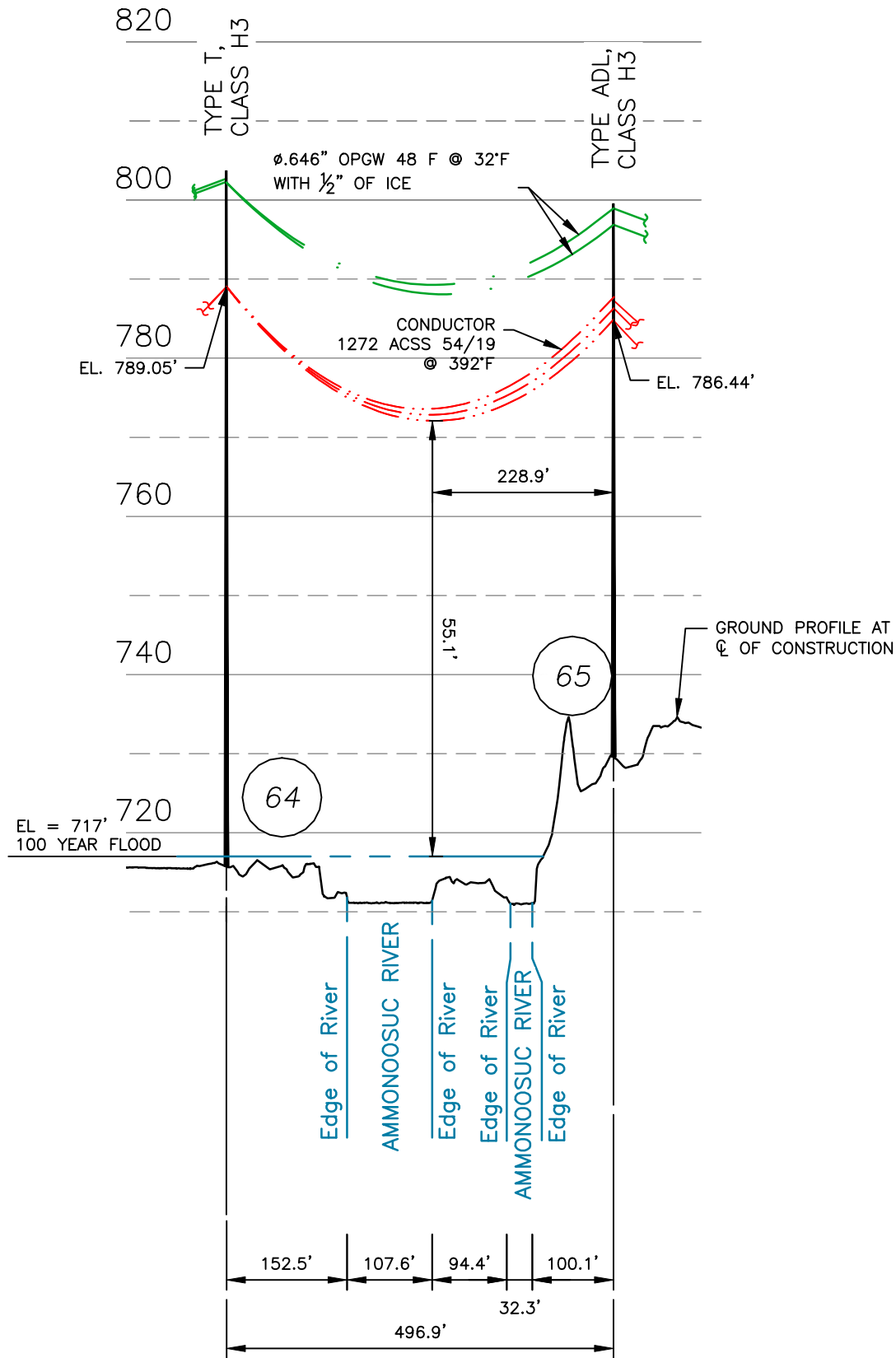
DWG	REV	ISSUED FOR	DOE	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR
1		ISSUED FOR DOE				12/29/23	NEB	KJD	KJD

SCALE
AS SHOWN

FILE: 04091-82001.DWG
IMAGE:

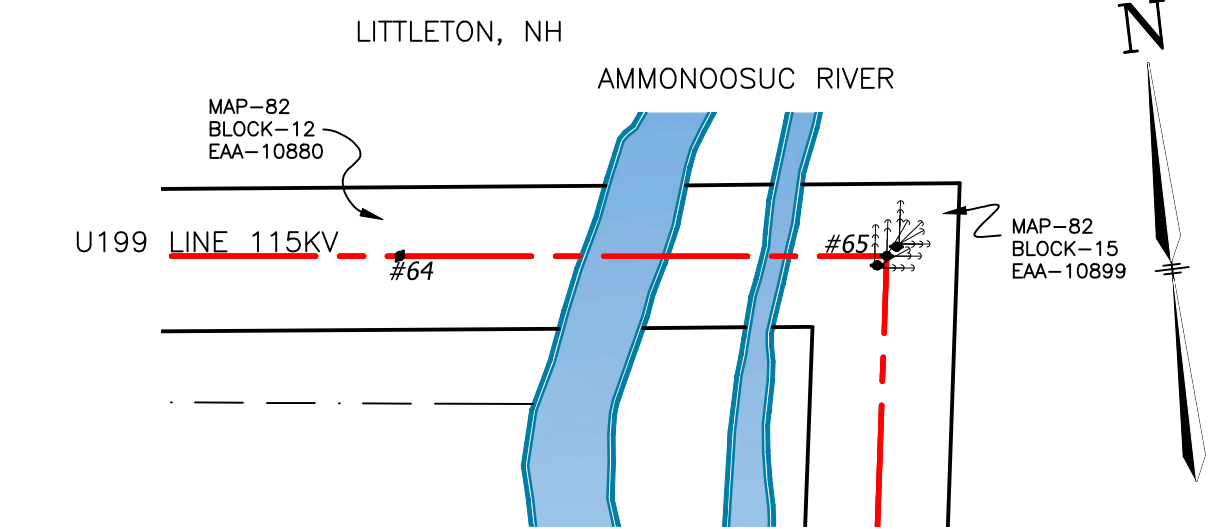
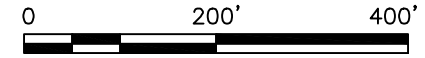
DRAWING NO.
04901-82001

12/27/2023 4:56 PM - NickB - C:\Users\NickB\appdata\local\temp\AcPublish_4348\04091-82001.dwg - EXHIBIT 3 (WATER CROSSING) ES VER: 12/2016



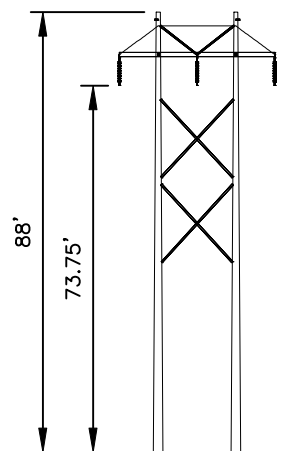
PROFILE VIEW

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



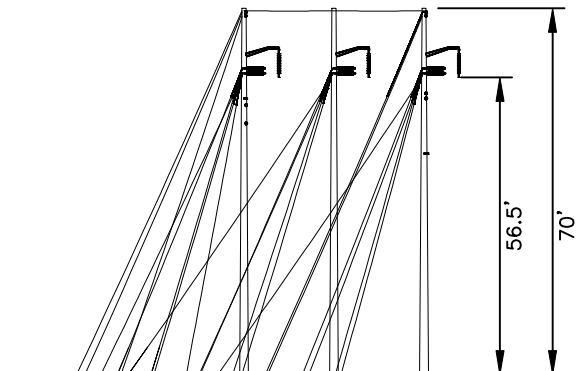
PLAN VIEW

SCALE: 1" = 200'



STRUCTURE 64
TYPE T

STR 64: IS A EVERSOURCE TYPE T, SINGLE CIRCUIT STEEL TANGENT, HORIZONTAL CONFIG.



STRUCTURE 65
TYPE ADL

STR 65: IS A EVERSOURCE TYPE ADL, SINGLE CIRCUIT STEEL POLE DEAD END ANGLE, HORIZONTAL CONFIG., GUYED.

STRUCTURE DETAIL

SCALE: NTS

LEGEND:

- STRUCTURE (WITH GUYS)
- PROPERTY BOUNDARY
- LINE, CL OF CONSTRUCTION
- LIMITS OF EVERSOURCE RIGHT OF WAY
- WATERBODY

STRUCTURE LOCATION		
STRUCTURE	LONGITUDE	LATITUDE
64	-71.80137132	44.30227944
65	-71.79951500	44.30211921

NESC VERTICAL CLEARANCE (FT)	
FROM TABLE 232.1, C2-2012	
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115kV
WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAIL BOATING IS PROHIBITED	18.6

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSS, 1272 kcmil 54/19, PHEASANT	10000	0	0.5	4
OPGW	2	48F Ø0.646" AFL DNO-11852	4300	0	0.5	4

NOTES:

- PARCEL INFORMATION PROVIDED BY NH GRANIT
- ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- THE 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 02/20/2008

EVERSOURCE
ENERGY

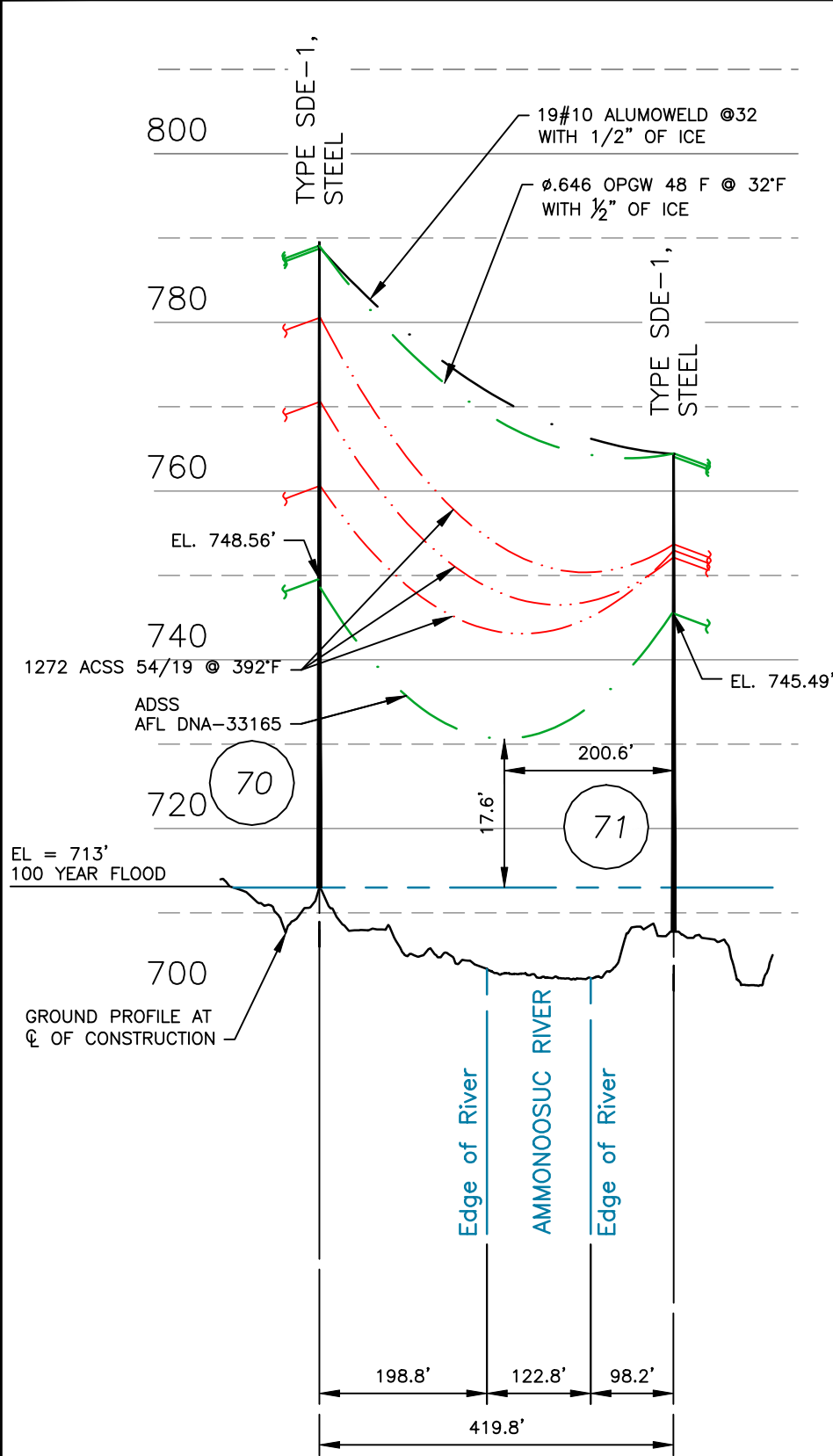
U199, 115kV LINE
AMMONOOSUC RIVER, PUBLIC WATER CROSSING
LITTLETON, NEW HAMPSHIRE
EXHIBIT 3

1	ISSUED FOR DOE		12/29/23	NEB	KJD	KJD
DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR

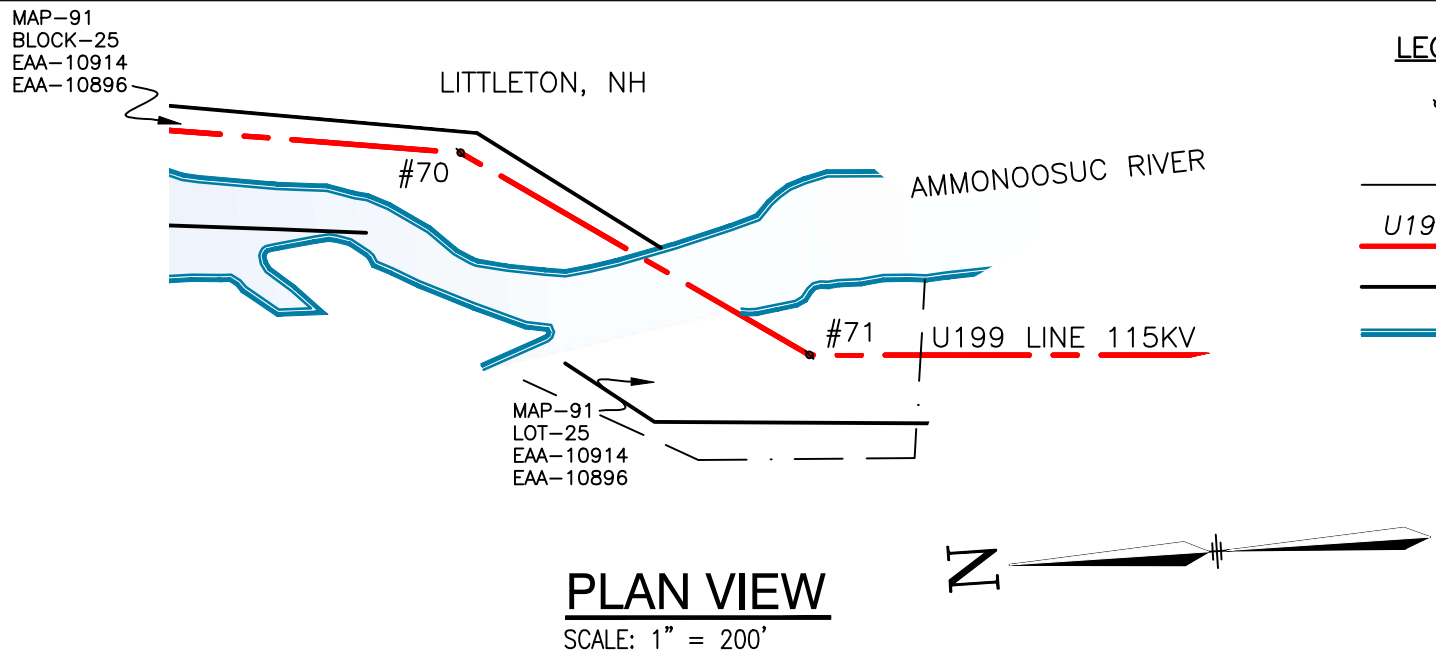
SCALE AS SHOWN	FILE: 04091-82001.DWG IMAGE:	DRAWING NO. 04901-82001
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T	1
DRAWN	NEB
ENGINEER	CRP
CHECKED	JJD
APPROVED	CRP
DATE	12/07/21

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



LEGEND:

- #71
- U199 LINE 115KV
- LIMITS OF EVERSOURCE RIGHT OF WAY
- WATERBODY
- STRUCTURE
- PROPERTY BOUNDARY
- LINE, C OF CONSTRUCTION

STRUCTURE DETAIL
SCALE: NTS

STRUCTURE 70
TYPE SDE-1

STR 70: IS A EVERSOURCE TYPE SDE-1, SINGLE CIRCUIT STEEL POLE DEAD END ANGLE, VERTICAL CONFIG.

STRUCTURE 71
TYPE SDE-1

STR 71: IS A EVERSOURCE TYPE SDE-1, SINGLE CIRCUIT STEEL POLE DEADEND, HORIZONTAL CONFIG.

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSS, 1272 kcmil 54/19, PHEASANT	10000	0	0.5	4
OPGW	1	48F Ø0.646 AFL DNO-11852	4300	0	0.5	4
STATIC	1	19#10 ALUMOWELD	6000	0	0.5	4
ADSS	1	144F 0.622" AFL DNA-33165	1800	0	0.5	4

NESC VERTICAL CLEARANCE (FT) FROM TABLE 232.1, C2-2012	
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	ADSS
WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAIL BOATING IS PROHIBITED	14.0

STRUCTURE LOCATION		
STRUCTURE	LONGITUDE	LATITUDE
70	-71.80043340	44.29694272
71	-71.80132538	44.29598586

- 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, 02/20/2008.

DWG	REV	ISSUED FOR DOE	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR
1					12/29/23	NEB	KJD	KJD

EVERSOURCE ENERGY

U199, 115kV LINE
AMMONOOSUC PUBLIC WATER CROSSING
LITTLETON, NEW HAMPSHIRE
EXHIBIT 4

T 1

DRAWN JJD

ENGINEER CRP

CHECKED KJD

APPROVED CRP

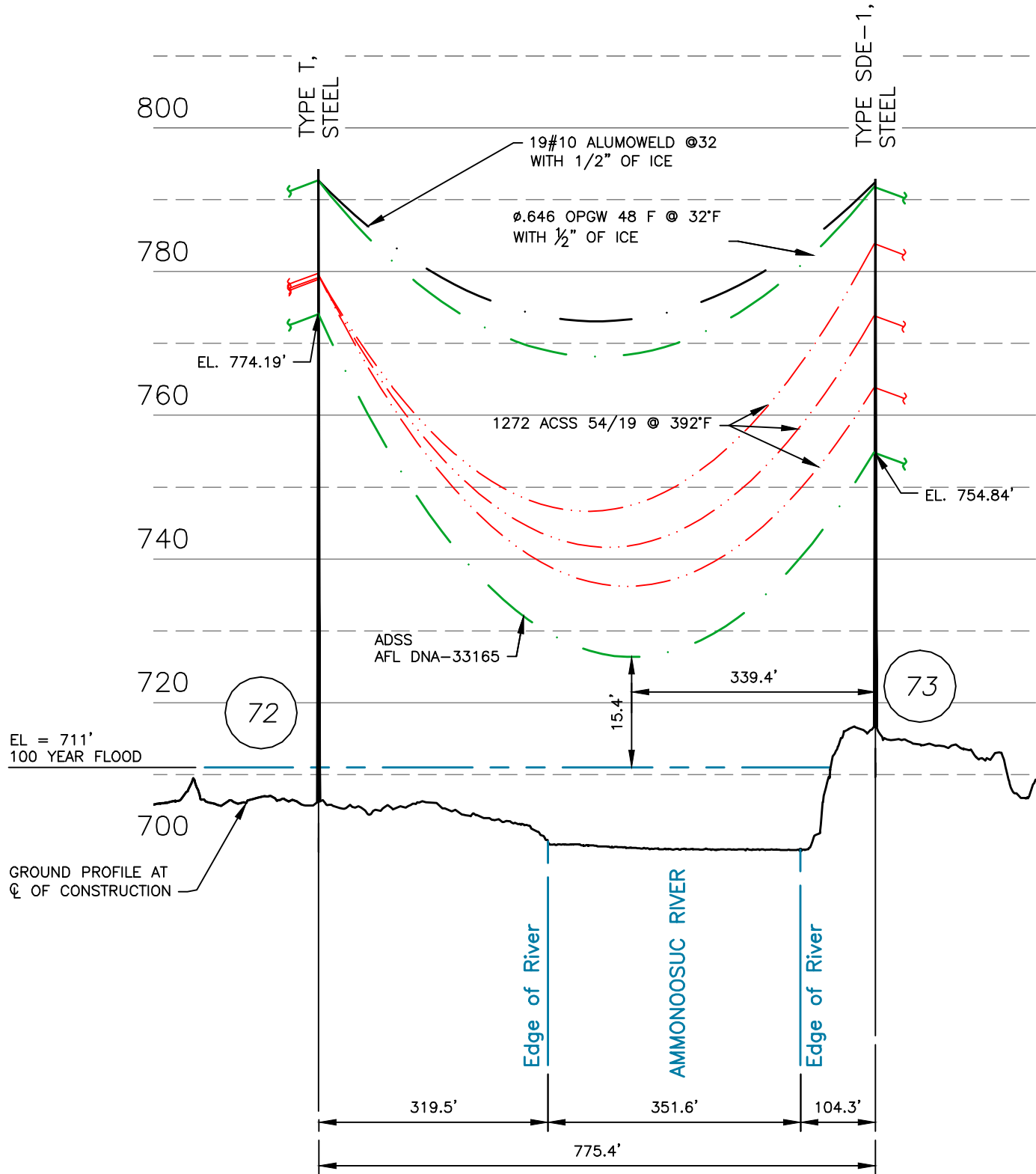
DATE 12/28/21

SCALE AS SHOWN

FILE: 04091-82001.DWG

IMAGE:

DRAWING NO. 04901-82001

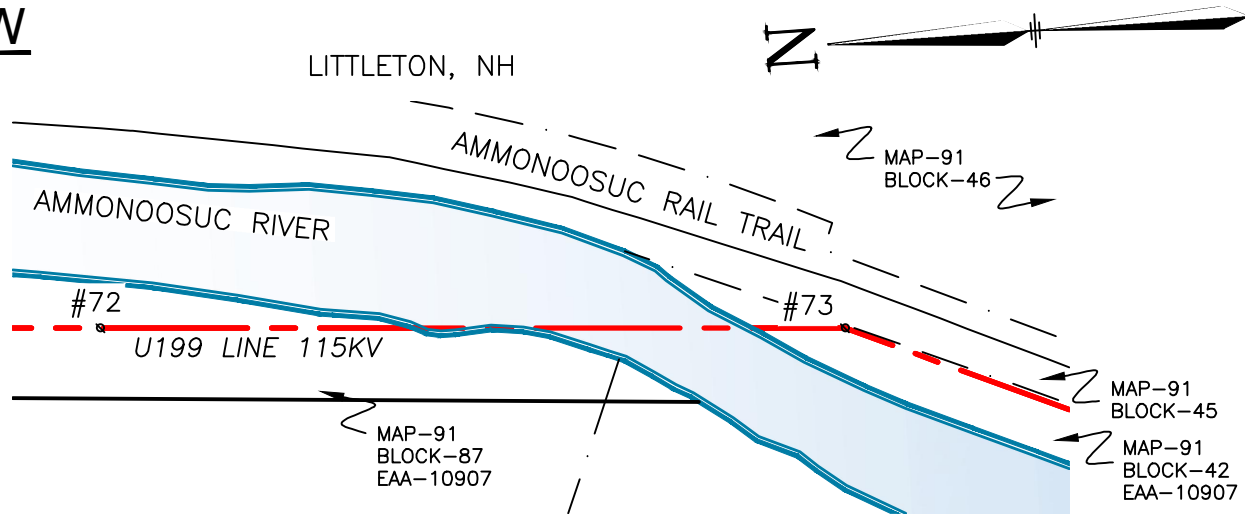


PROFILE VIEW

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

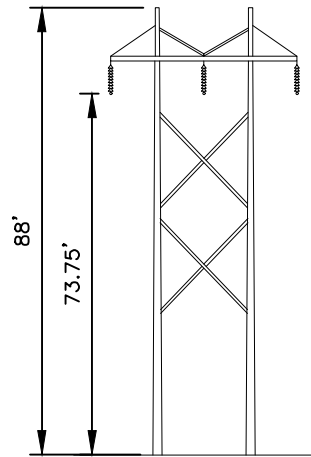
PLAN VIEW

SCALE: 1" = 200'



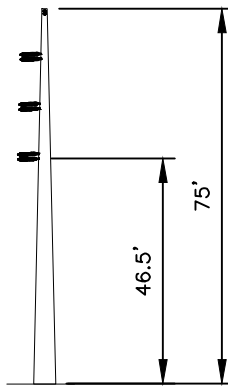
LEGEND:

#73	STRUCTURE
U199 LINE 115KV	PROPERTY BOUNDARY
	LINE, C OF CONSTRUCTION
	LIMITS OF EVERSOURCE RIGHT OF WAY
	WATERBODY
	RAILROAD



STRUCTURE 72
TYPE T

STR 72: IS A EVERSOURCE TYPE T, SINGLE CIRCUIT STEEL POLE TANGENT, HORIZONTAL CONFIG.



STRUCTURE 73
TYPE SDE-1

STR 73: IS A EVERSOURCE TYPE SDE-1, SINGLE CIRCUIT STEEL POLE DEAD END ANGLE, VERTICAL CONFIG.

STRUCTURE DETAIL

SCALE: NTS

DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR
2	DRAFTING CHANGES		07/11/24	GBS	APS	MRC
1	ISSUED FOR DOE		12/29/23	NEB	KJD	KJD

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSS, 1272 kcmil 54/19, PHEASANT	10000	0	0.5	4
OPGW	1	48F Ø0.646 AFL DNO-11852	4300	0	0.5	4
STATIC	1	19#10 ALUMOWELD	6000	0	0.5	4
ADSS	1	144F 0.622" AFL DNA-33165	2100	0	0.5	4

NESC VERTICAL CLEARANCE (FT)
FROM TABLE 232.1, C2-2012

NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	ADSS
WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAIL BOATING IS PROHIBITED	14.0

STRUCTURE LOCATION

STRUCTURE	LONGITUDE	LATITUDE
72	-71.80145546	44.29454710
73	-71.80164734	44.29242465

EVERSOURCE
ENERGY

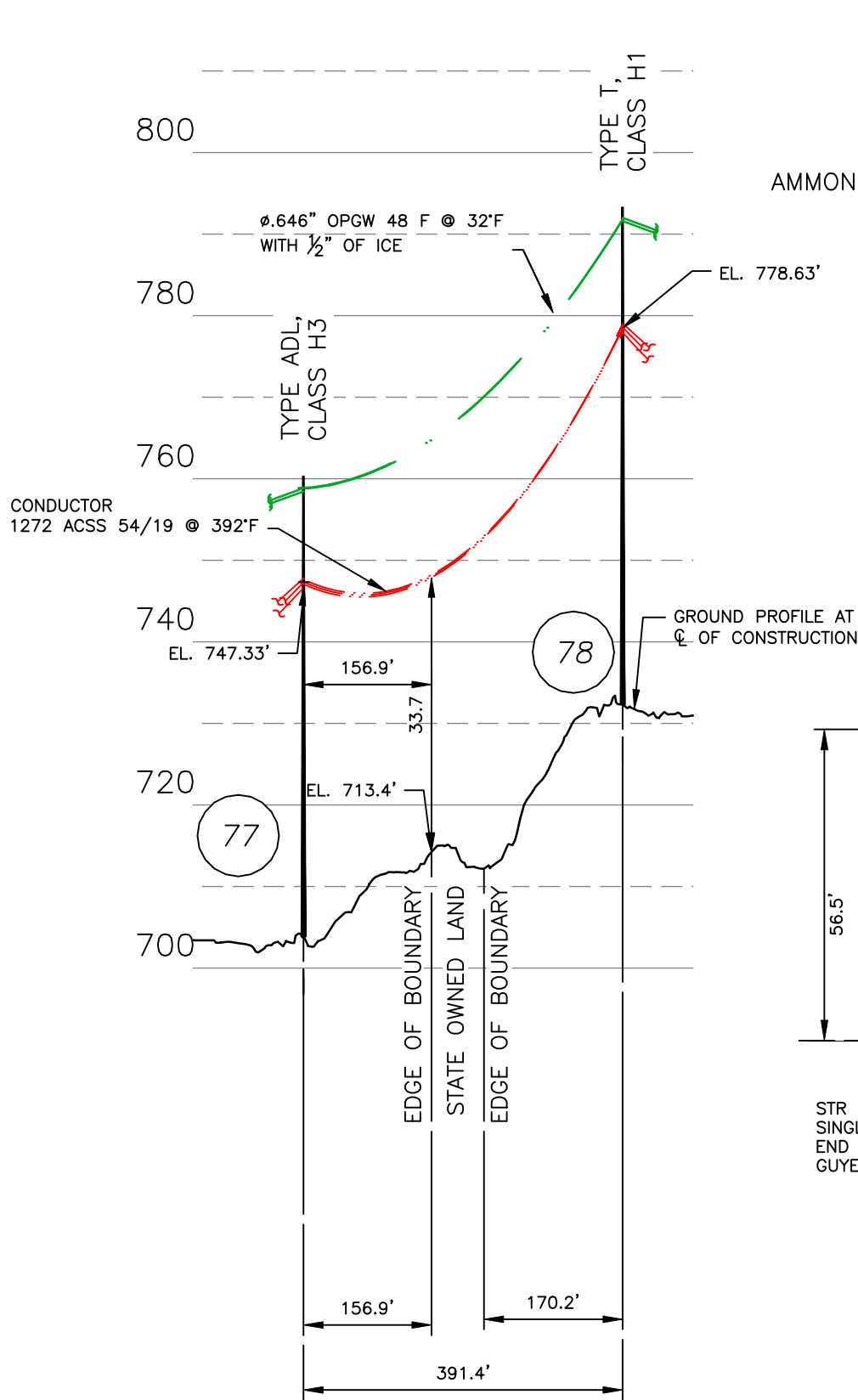
U199, 115kV LINE
AMMONOOSUC PUBLIC WATER CROSSING
LITTLETON, NEW HAMPSHIRE
EXHIBIT 5

SCALE: AS SHOWN
FILE: 04091-82001.DWG
DRAWING NO. 04901-82001

T	2
DRAWN	JJD
ENGINEER	CRP
CHECKED	KJD
APPROVED	CRP
DATE	12/28/21

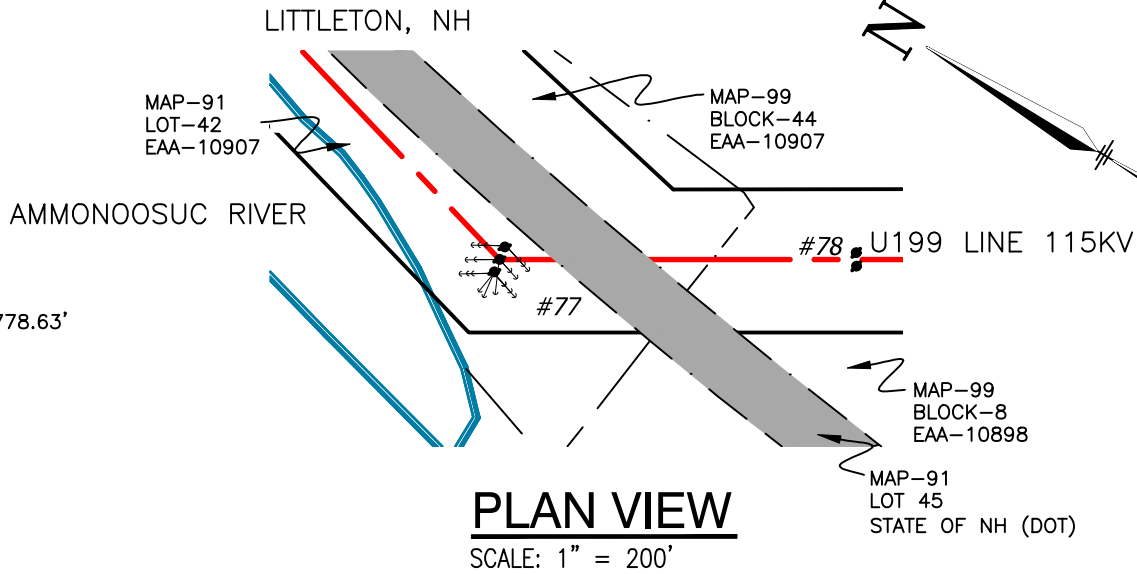
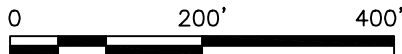
NOTES:

- 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, 02/20/2008.



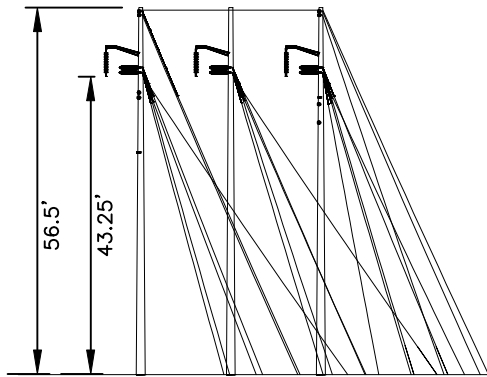
PROFILE VIEW

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



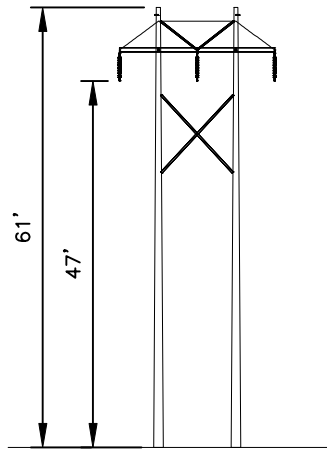
PLAN VIEW

SCALE: 1" = 200'



STRUCTURE 77
TYPE ADL

STR 77: IS A EVERSOURCE TYPE ADL, SINGLE CIRCUIT STEEL POLE DEAD END ANGLE, HORIZONTAL CONFIG., GUYED.



STRUCTURE 78
TYPE T

STR 78: IS A EVERSOURCE TYPE T, SINGLE CIRCUIT STEEL TANGENT, HORIZONTAL CONFIG.

STRUCTURE DETAIL

SCALE: NTS

NOTES:

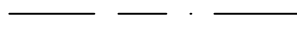
1. PARCEL INFORMATION PROVIDED BY NH GRANIT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.

DWG	REV	ISSUED FOR	DOE	12/29/23	NEB	KJD	KJD
1		ISSUED FOR DOE		12/29/23	NEB	KJD	KJD
		EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR

LEGEND:



STRUCTURE (WITH GUYS)



PROPERTY BOUNDARY



LINE, C OF CONSTRUCTION



LIMITS OF EVERSOURCE
RIGHT OF WAY



WATERBODY



PROPERTY BOUNDARY



STATE OF NEW HAMPSHIRE
PROPERTY

STRUCTURE LOCATION

STRUCTURE	LONGITUDE	LATITUDE
77	-71.80356603	44.28841145
78	-71.80278744	44.28749510

NESC VERTICAL CLEARANCE (FT)
FROM TABLE 232.1, C2-2012

NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115kV
TOP OF TRACK RAIL	28.1

CABLE SCHEDULE

WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSS, 1272 kcmil 54/19, PHEASANT	10000	0	0.5	4
OPGW	2	48F AFL DNO-11852 Ø0.646"	4300	0	0.5	4

EVERSOURCE
ENERGY

U199, 115kV LINE
STATE LAND CROSSING
LITTLETON, NEW HAMPSHIRE
EXHIBIT 6

SCALE
AS SHOWN

FILE: 04091-81001.DWG
IMAGE:

DRAWING NO.
04091-81001

T	1
DRAWN	NEB
ENGINEER	CRP
CHECKED	JJD
APPROVED	CRP
DATE	12/07/21