





LEGEND:

R169 LINE: 

R169 STR: 

| DWG REV | EPN/DESCRIPTION | CONT/PE# | DATE | DRN | CHKD | APPR |
|---------|------------------|----------|---------|-----|------|------|
| 1 | SUBMITTED TO DOE | | 4/25/22 | CTS | CJN | CJT |

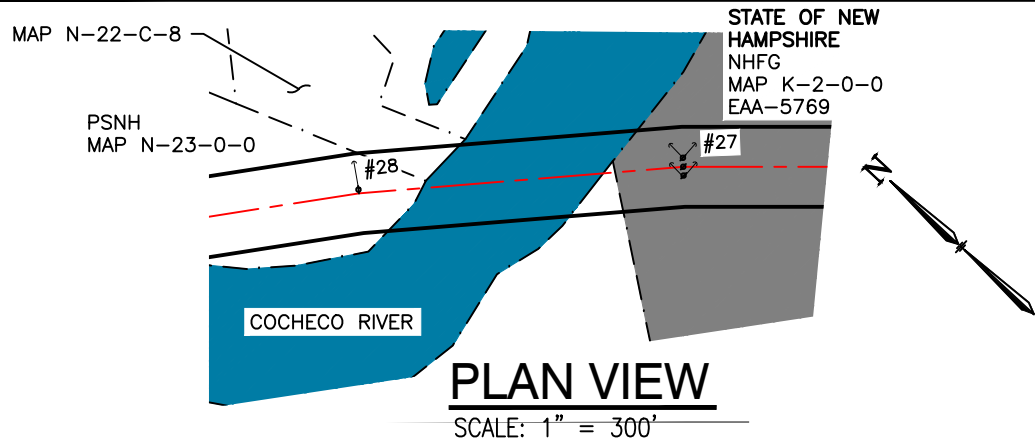
EVERSOURCE ENERGY

R169 115kV LINE
STATE LAND & WATERBODY CROSSING, LOCATION PLAN
DOVER, NEW HAMPSHIRE
EXHIBIT 1

SCALE: 1" = 1500'

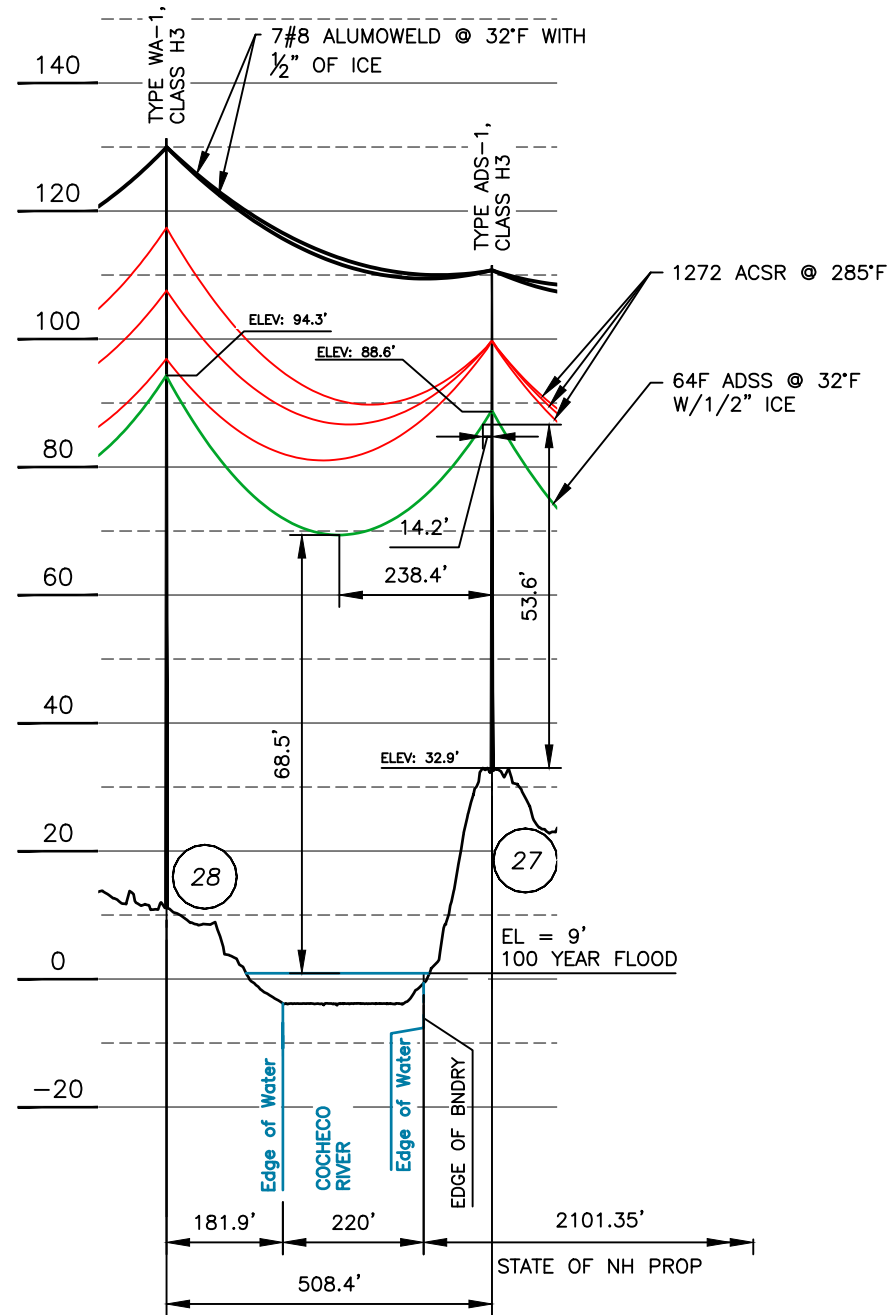
FILE: 04070-85001.DWG
IMAGE:

| | |
|----------------------------|---|
| T | 1 |
| DRAWN CTS | |
| ENGINEER CJT | |
| CHECKED CJN | |
| APPROVED CJT | |
| DATE 4/25/2022 | |
| DRAWING NO. 04070-85001 | |



PLAN VIEW

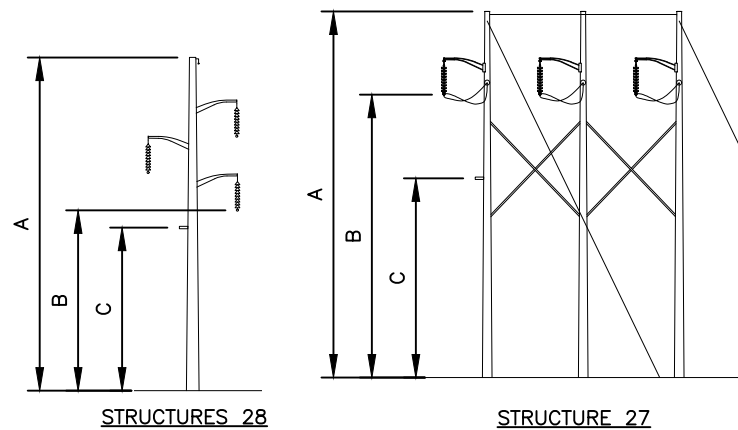
SCALE: 1" = 300'



PROFILE VIEW

SCALE: HORZ 1" = 300'
VERT 1" = 30'

| NESC VERTICAL CLEARANCE (FT) FROM TABLE 232.1 | |
|---|-------------------|
| NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES | LINE VOLTAGE (kV) |
| | NEUTRAL / ADSS |
| OTHER AREAS TRAVERSED BY VEHICLES, SUCH AS CULTIVATED, GRAZING, FOREST, AND ORCHARD LANDS, INDUSTRIAL SITES, COMMERCIAL SITES, ETC | 15.5 |
| WATER AREAS SUITABLE FOR SAIL BOATING INCLUDING LAKES, PONDS, RESERVOIRS, TIDAL WATERS, RIVERS, STREAMS, AND CANALS WITH AN UNOBSTRUCTED SURFACE AREA OF: | |
| OVER 2000 ACRES | 37.5 |



STRUCTURES 28

STR'S 28: IS AN EVERSOURCE TANGENT, SINGLE CIRCUIT MONOPOLE, VERTICAL CONFIG.

STRUCTURE 27

STR 27: IS AN EVERSOURCE DEADEND, SINGLE CIRCUIT, HORIZONTAL CONFIG.

STRUCTURE DETAIL

SCALE: NTS

| STRUCTURE DETAILS | | | | | |
|-------------------|-------|----------|--------|--------|--------|
| STRUCTURE | TYPE | MATERIAL | A (FT) | B (FT) | C (FT) |
| 27 | ADS-1 | STEEL | 79 | 67.1 | 56.2 |
| 28 | WA-1 | WOOD | 120.2 | 85.8 | 83.2 |

LEGEND:

- #28 STRUCTURE (WITH GUYS)
- PROPERTY BOUNDARY
- R169 LINE 115kV LINE, C OF CONSTRUCTION
- LIMITS OF EVERSOURCE RIGHT OF WAY
- WATERBODY
- ROADS
- STATE OF NEW HAMPSHIRE PROPERTY

STRUCTURE LOCATION

| STRUCTURE | LONGITUDE | LATITUDE |
|-----------|--------------|-------------|
| 27 | -70.85930851 | 43.19489547 |
| 28 | -70.86068952 | 43.19585792 |

CABLE SCHEDULE

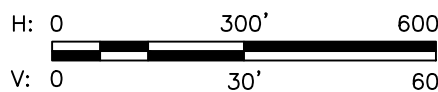
| WIRE | QTY OF CABLES | DESCRIPTION | DESIGN CONDITIONS | | | |
|-----------|---------------|---------------|--------------------------|-----------|----------|------------|
| | | | MAX DESIGN TENSION (lbs) | TEMP (°F) | ICE (in) | WIND (psf) |
| CONDUCTOR | 3 | 1272 ACSR | 9,500 | 0 | 0.5 | 4 |
| STATIC | 2 | 7#8 ALUMOWELD | 3,900 | 0 | 0.5 | 4 |
| ADSS | 1 | 64F ADSS | 2,300 | 0 | 0.5 | 4 |

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.

| | |
|----------|-----------|
| T | 1 |
| DRAWN | CTS |
| ENGINEER | CJT |
| CHECKED | CJN |
| APPROVED | CJT |
| DATE | 4/25/2022 |

**R169, 115kV LINE
COCHECO RIVER/STATE OWNED LAND CROSSING
DOVER, NEW HAMPSHIRE
EXHIBIT 2**

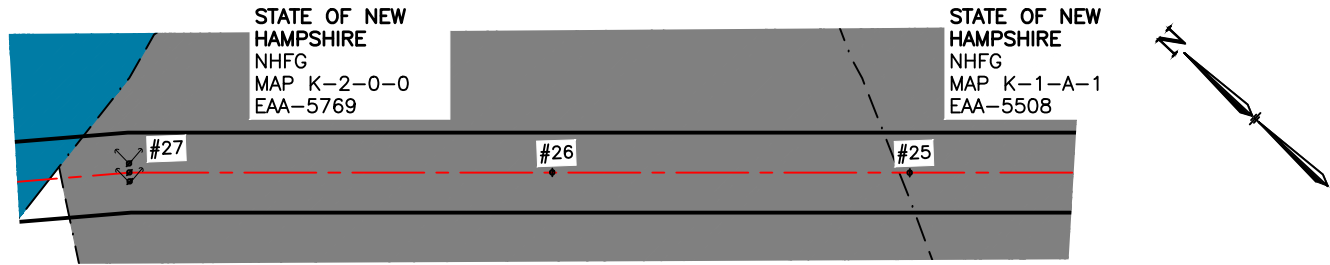
| | | |
|-------------------|---------------------------------|-----------------------------------|
| SCALE AS SHOWN | FILE: 04070-85001.DWG IMAGE: | DRAWING NO. 04070-85001 |
|-------------------|---------------------------------|-----------------------------------|



| DWG REV | EPN/DESCRIPTION | CONT/PE# | DATE | DRN | CHKD | APPR |
|---------|------------------|----------|---------|-----|------|------|
| 1 | SUBMITTED TO DOE | | 4/25/22 | CTS | CJN | CJT |

ES VER: 12/2016

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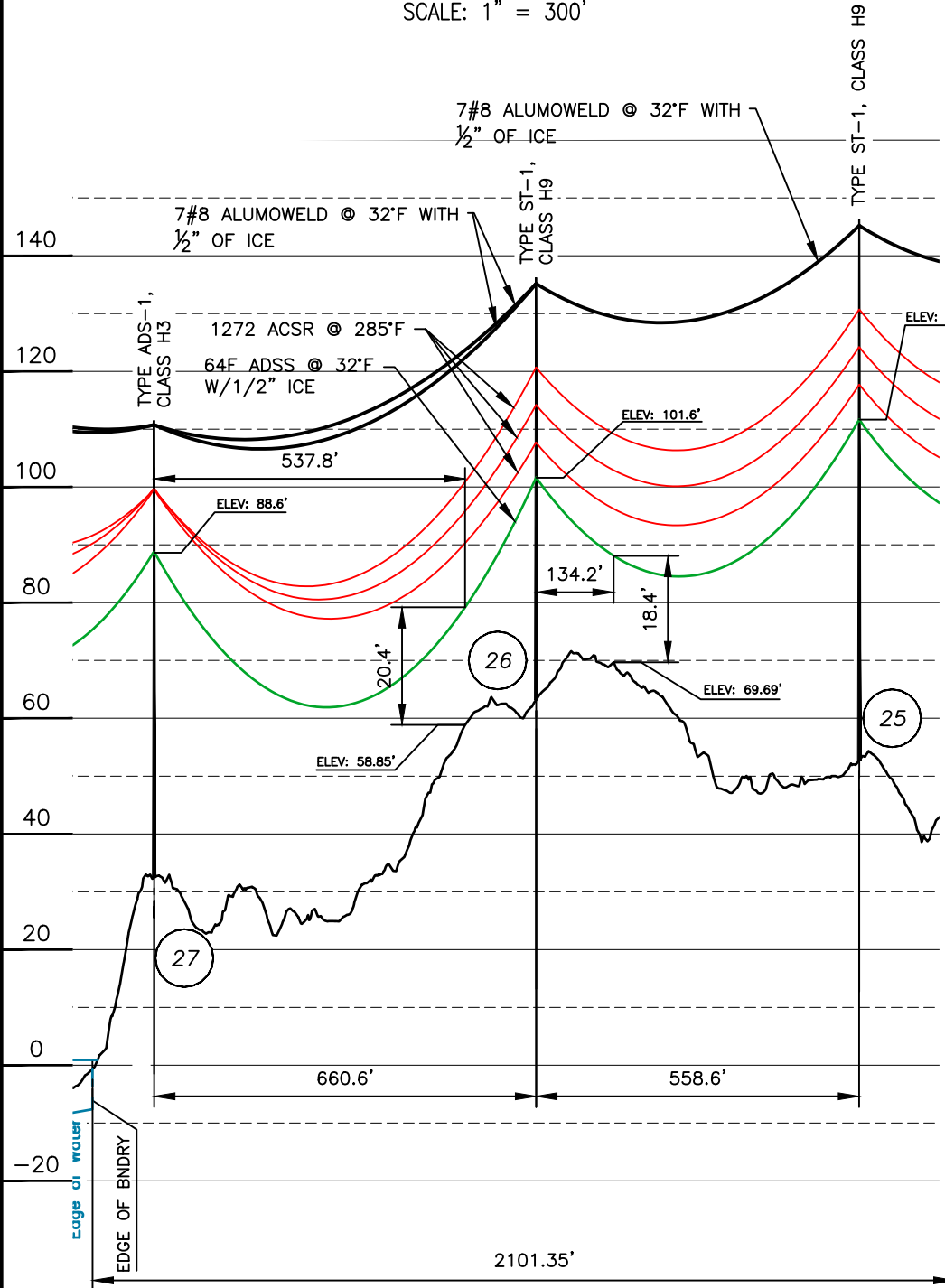


PLAN VIEW

SCALE: 1" = 300'

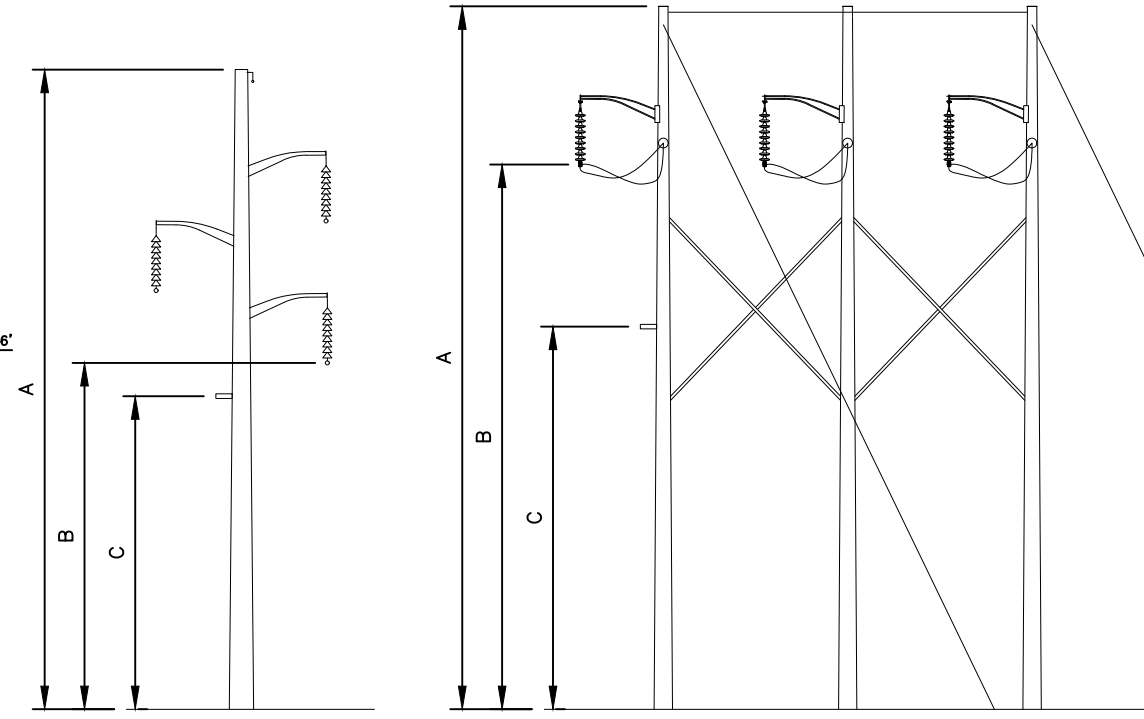
LEGEND:

- #28 STRUCTURE (WITH GUYS)
- PROPERTY BOUNDARY
- R169 LINE 115kV LINE, CL OF CONSTRUCTION
- LIMITS OF EVERSOURCE RIGHT OF WAY
- ROADS
- STATE OF NEW HAMPSHIRE PROPERTY



PROFILE VIEW

SCALE: HORZ 1" = 300'
VERT 1" = 30'



STRUCTURES 25 & 26
STR'S 25 & 26: ARE EVERSOURCE TANGENT, SINGLE CIRCUIT MONOPOLE, VERTICAL CONFIG.

STRUCTURE 27
STR 27: IS AN EVERSOURCE DEADEND, SINGLE CIRCUIT, HORIZONTAL CONFIG.

STRUCTURE DETAIL

SCALE: NTS

| STRUCTURE DETAILS | | | | | |
|-------------------|-------|----------|--------|--------|--------|
| STRUCTURE | TYPE | MATERIAL | A (FT) | B (FT) | C (FT) |
| 25 | ST-1 | STEEL | 93.5 | 65 | 58.9 |
| 26 | ST-1 | STEEL | 73 | 44.5 | 38.4 |
| 27 | ADS-1 | STEEL | 79 | 67.1 | 56.2 |

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

| CABLE SCHEDULE | | | | | | |
|----------------|---------------|---------------|--------------------------|-----------|----------|------------|
| WIRE | QTY OF CABLES | DESCRIPTION | DESIGN CONDITIONS | | | |
| | | | MAX DESIGN TENSION (lbs) | TEMP (°F) | ICE (in) | WIND (psf) |
| CONDUCTOR | 3 | 1272 ACSR | 9,500 | 0 | 0.5 | 4 |
| STATIC | 2/1* | 7#8 ALUMOWELD | 3,900 | 0 | 0.5 | 4 |
| ADSS | 1 | 64F ADSS | 2,300 | 0 | 0.5 | 4 |

* THE SPAN BETWEEN STR'S 26-27 HAS TWO STATIC WIRES AND THE SPAN BETWEEN STR'S 25-26 HAS ONE STATIC WIRE.

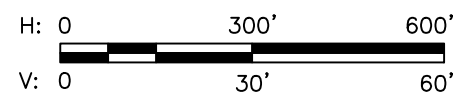
| STRUCTURE LOCATION | | |
|--------------------|--------------|-------------|
| STRUCTURE | LONGITUDE | LATITUDE |
| 25 | -70.85622972 | 43.19242254 |
| 26 | -70.85763990 | 43.19355580 |
| 27 | -70.85930851 | 43.19489547 |

NOTES:

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

**R169, 115kV LINE
STATE OWNED LAND CROSSING
DOVER, NEW HAMPSHIRE
EXHIBIT 3**

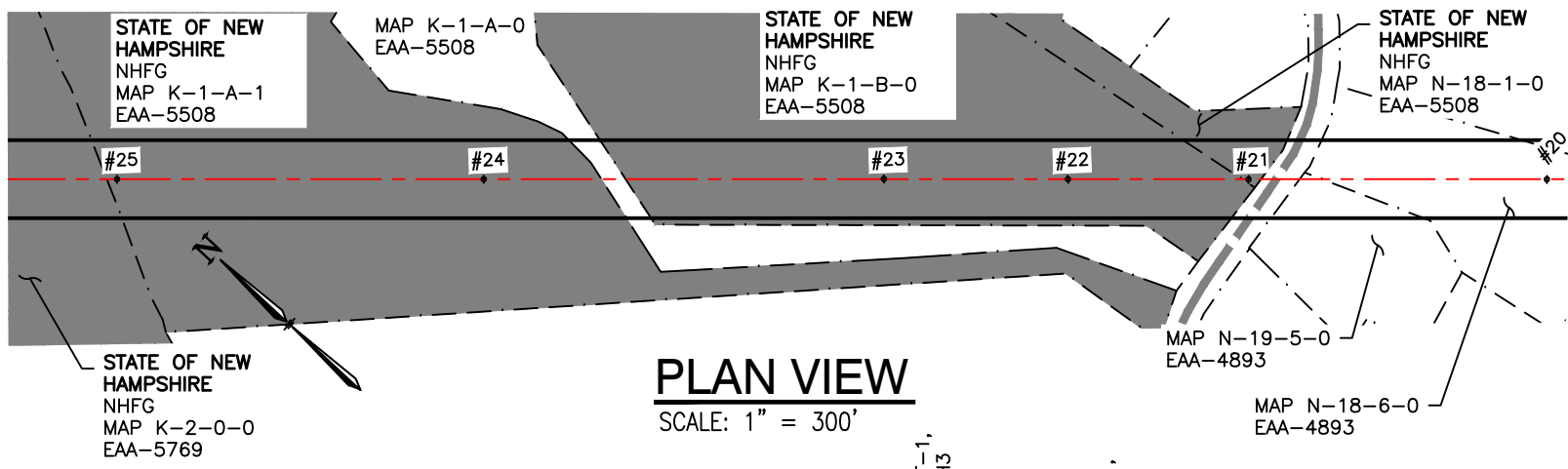
| | |
|-------------------|-----------------------------------|
| DRAWN CTS | T 1 |
| ENGINEER CJT | CHECKED CJN |
| APPROVED CJT | DATE 4/25/2022 |
| SCALE AS SHOWN | DRAWING NO. 04070-85001 |



| DWG REV | EPN/DESCRIPTION | CONT/PE# | DATE | DRN | CHKD | APPR |
|---------|------------------|----------|---------|-----|------|------|
| 1 | SUBMITTED TO DOE | | 4/25/22 | CTS | CJN | CJT |

ES VER: 12/2016

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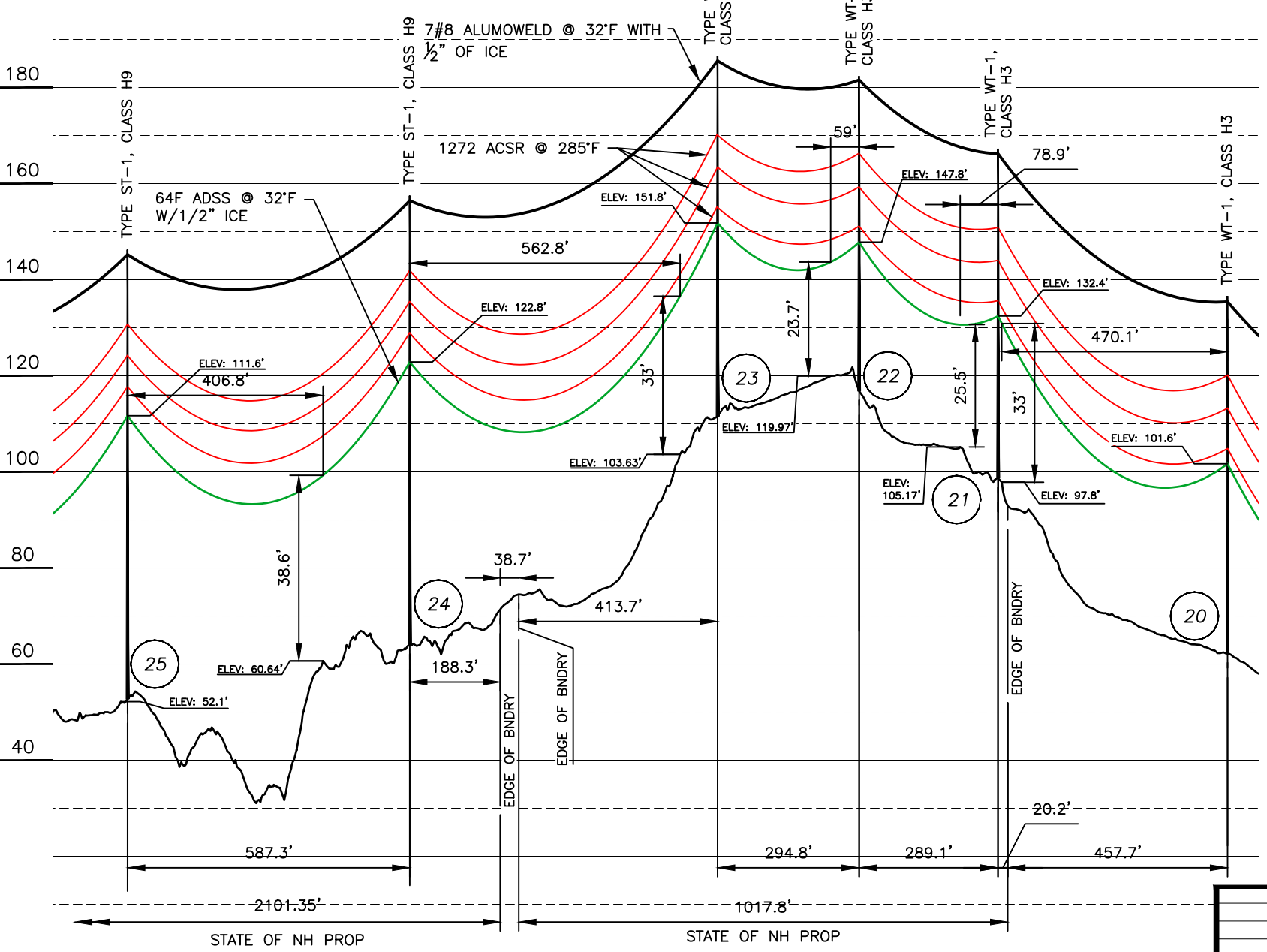
PLAN VIEW
SCALE: 1" = 300'

| STRUCTURE DETAILS | | | | | |
|-------------------|------|----------|--------|--------|--------|
| STRUCTURE | TYPE | MATERIAL | A (FT) | B (FT) | C (FT) |
| 20 | WT-1 | WOOD | 74.4 | 42.7 | 39.5 |
| 21 | WT-1 | WOOD | 68.5 | 37 | 33.8 |
| 22 | WT-1 | WOOD | 65.5 | 34.3 | 31 |
| 23 | WT-1 | WOOD | 75 | 43.6 | 40.2 |
| 24 | ST-1 | STEEL | 93.5 | 65 | 58.9 |
| 25 | ST-1 | STEEL | 93.5 | 65 | 58.9 |

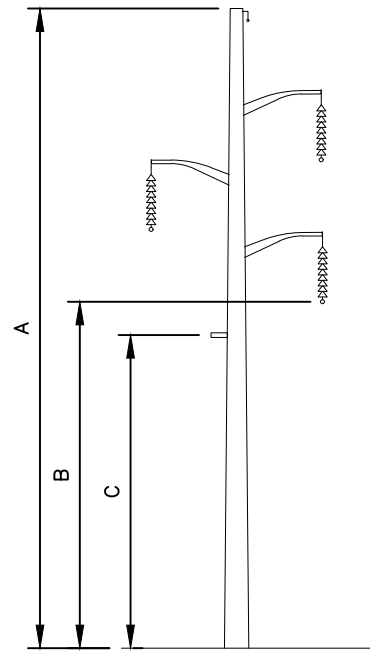
LEGEND:

- #25 STRUCTURE
- PROPERTY BOUNDARY
- R169 LINE 115kV LINE, ϕ OF CONSTRUCTION
- LIMITS OF EVERSOURCE RIGHT OF WAY
- ROADS
- STATE OF NEW HAMPSHIRE PROPERTY

| NESV VERTICAL CLEARANCE (FT) FROM TABLE 232.1 | |
|--|-------------------|
| NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES | LINE VOLTAGE (kV) |
| | |
| OTHER AREAS TRAVERSED BY VEHICLES, SUCH AS CULTIVATED, GRAZING, FOREST, AND ORCHARD LANDS, INDUSTRIAL SITES, COMMERCIAL SITES, ETC | 15.5 |



PROFILE VIEW
SCALE: HORZ 1" = 300'
VERT 1" = 30'



STRUCTURE DETAIL
SCALE: NTS

| CABLE SCHEDULE | | | | | | |
|----------------|---------------|---------------|--------------------------|-----------|----------|------------|
| WIRE | QTY OF CABLES | DESCRIPTION | DESIGN CONDITIONS | | | |
| | | | MAX DESIGN TENSION (lbs) | TEMP (°F) | ICE (in) | WIND (psf) |
| CONDUCTOR | 3 | 1272 ACSR | 10,500 | 0 | 0.5 | 4 |
| STATIC | 1 | 7#8 ALUMOWELD | 3,800 | 0 | 0.5 | 4 |
| ADSS | 1 | 64F ADSS | 2,300 | 0 | 0.5 | 4 |

| STRUCTURE LOCATION | | |
|--------------------|--------------|-------------|
| STRUCTURE | LONGITUDE | LATITUDE |
| 20 | -70.85044827 | 43.18777869 |
| 21 | -70.85165503 | 43.18874756 |
| 22 | -70.85238480 | 43.18933412 |
| 23 | -70.85312689 | 43.18993335 |
| 24 | -70.85474661 | 43.19123168 |
| 25 | -70.85622972 | 43.19242254 |

- NOTES:**
1. PARCEL INFORMATION PROVIDED BY NH GRANIT.
 2. PARCEL MAP K-1-A-0 EAA-5508 WAS TRACED FROM GRANIT.
 3. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.

| | | | |
|--|--|---------------------------------|----------------------------|
| | | T | 1 |
| | | DRAWN CTS | ENGINEER CJT |
| R169, 115kV LINE STATE OWNED LAND CROSSING DOVER, NEW HAMPSHIRE EXHIBIT 4 | | CHECKED CJN | APPROVED CJT |
| | | DATE 4/25/2022 | |
| SCALE AS SHOWN | | FILE: 04070-85001.DWG IMAGE: | DRAWING NO. 04070-85001 |

| DWG REV | EPN/DESCRIPTION | CONT/PE# | DATE | DRN | CHKD | APPR |
|---------|------------------|----------|---------|-----|------|------|
| 1 | SUBMITTED TO DOE | | 4/25/22 | CTS | CJN | CJT |