



ADAM M. DUMVILLE
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June 8, 2020

Via Electronic Mail

Ms. Pamela Monroe, Administrator
New Hampshire Site Evaluation Committee
21 South Fruit Street, Suite 10
Concord, NH 03301

**Re: SEC Docket No. 2015-04: Public Service Company of New Hampshire d/b/a
Eversource Energy (“Eversource”): Submission of As-Built Plans**

Dear Ms. Monroe:

Enclosed for filing in the above-referenced docket, please see Public Service Company of New Hampshire d/b/a Eversource Energy’s as-built plans for the completed Seacoast Reliability Project. A hard copy will be delivered to your office.

Please do not hesitate to contact me with any questions.

Sincerely,

A handwritten signature in blue ink that reads "Adam Dumville".

Adam M. Dumville

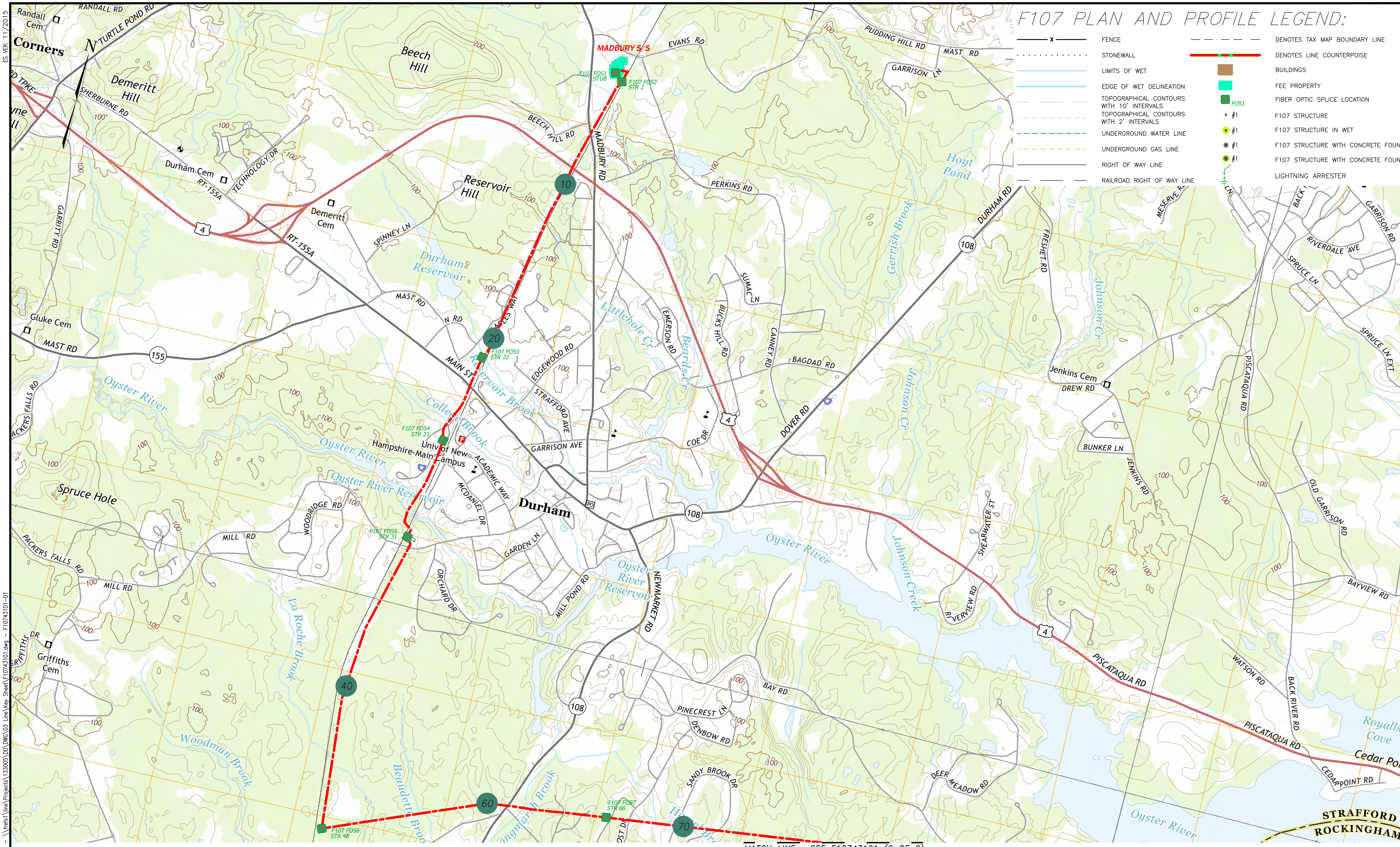
cc: Service List

McLane Middleton, Professional Association
Manchester, Concord, Portsmouth, NH | Woburn, Boston, MA

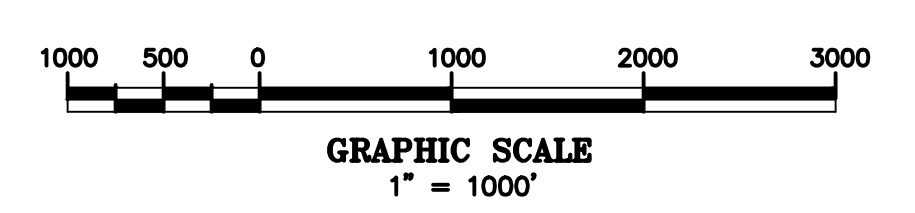
McLane.com

F107 PLAN AND PROFILE LEGEND:

- FENCE
- STONEWALL
- LIMITS OF WET
- EDGE OF WET DELINEATION
- TOPOGRAPHICAL CONTOURS WITH 10' INTERVALS
- TOPOGRAPHICAL CONTOURS WITH 2' INTERVALS
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- RIGHT OF WAY LINE
- RAILROAD RIGHT OF WAY LINE
- DENOTES TAX MAP BOUNDARY LINE
- DENOTES LINE COUNTERPOISE
- BUILDINGS
- FEE PROPERTY
- FIBER OPTIC SPLICE LOCATION
- F107 STRUCTURE
- F107 STRUCTURE IN WET
- F107 STRUCTURE WITH CONCRETE FOUNDATION
- F107 STRUCTURE WITH CONCRETE FOUNDATION IN WET
- LIGHTNING ARRESTER



- ## LEGEND:
- F107 LINE
 - F107 STRUCTURE NUMBER
 - INDICATES APPROXIMATE LIMITS OF SUBSTATION
 - FOS1
 - INDICATES FIBER OPTIC SPLICE LOCATION



MATCH LINE SEE F10743101 (2 OF 2)

NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUED FOR CONSTRUCTION	03/01/19	KUS	KUS	APJ
2	AS BUILT WORK	11/27/24	RAB	KUS	APJ

EVERSOURCE ENERGY

T 2

MADBURY S/S TO PORTSMOUTH S/S
115kV TRANSMISSION LINE
KEYSHEET

DATE: 07/26/16

DES: EDR CHK: KMS
DRW: SCF APR: APJ

TOWN:
INVER, DUNN, GERRISH, PORTSMOUTH

TRANSMISSION LINE:
F107

MILE NO:
DISCIPLINE/SHT NO.

SHEET 1 OF 2

F10743101

5/29/2020 2:13 PM - hbarndley - \\treas\line\Projects\133005\DD\DWG\03 Line Key Sheet\F10743101.dwg - F10743101-01

5/29/2020 2:13 PM - Inboard.dwg - \\treas\line\Projects\133005\DD\DWG\03 Line Key Sheet\F10743101.dwg - F10743101-02

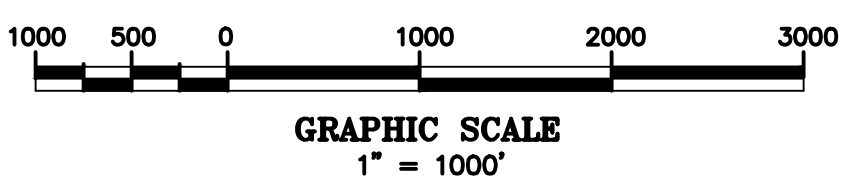
ES MER 11/2015

MATCH LINE SEE F10743101 (1 OF 2)



LEGEND:

- - - F107 LINE
- 10 F107 STRUCTURE NUMBER
- INDICATES APPROXIMATE LIMITS OF SUBSTATION
- FOS1 INDICATES FIBER OPTIC SPLICE LOCATION



NO.	REVISION	DATE	BY	CHKD	APPR.
2	AS BUILT WORK 11/27/20	06/08/20	RAB	KAS	APJ
1	ISSUED FOR CONSTRUCTION	03/01/19	RWP	KAS	APJ

EVERSOURCE ENERGY

T 2

WADSBURY S/S TO PORTSMOUTH S/S
115kV TRANSMISSION LINE
KEYSHEET

DATE: 07/26/16
SCALE: 1" = 100'

DES: EDR
CHK: KMS
DRW: SCF
APR: APJ

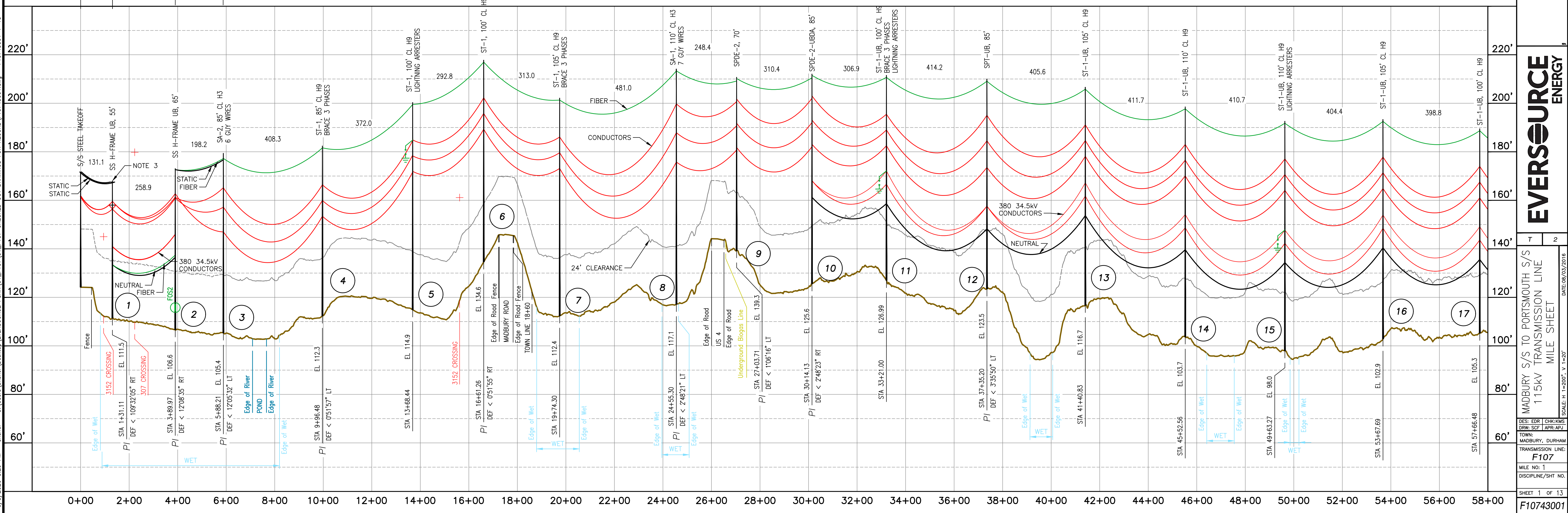
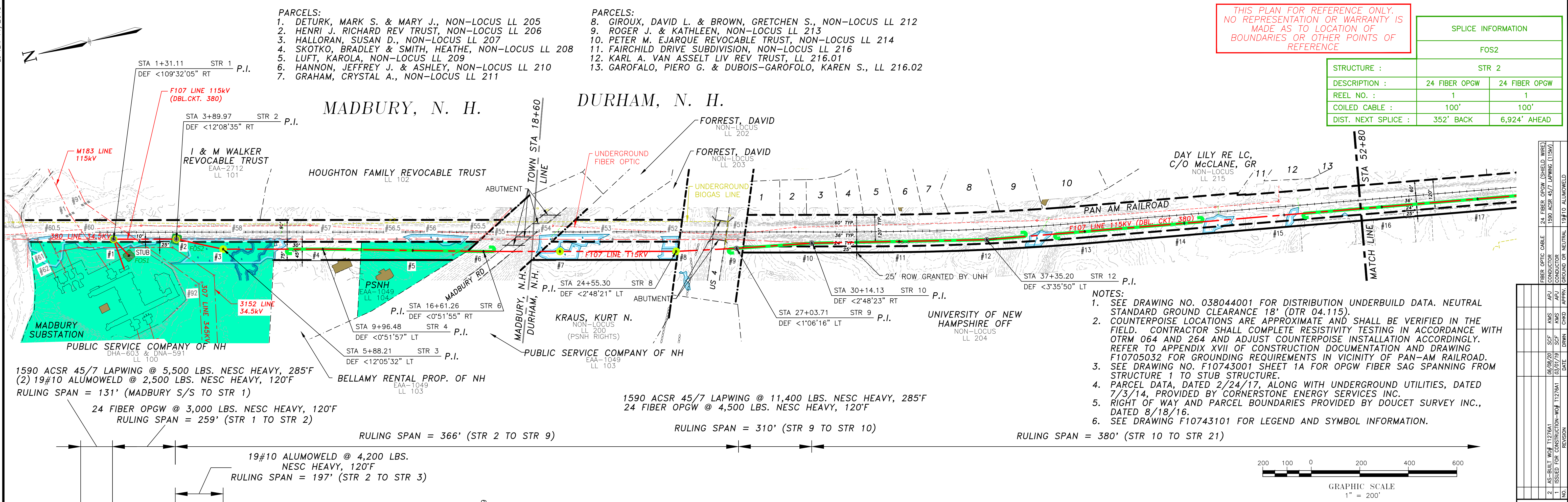
TOWN:
OWNER, DESIGN, GENERAL CONTRACTOR

TRANSMISSION LINE:
F107

MILE NO:
DISCIPLINE/SHT NO.

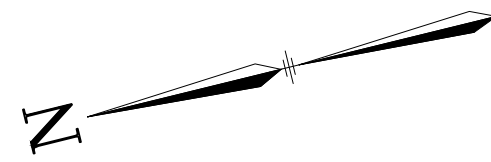
SHEET 2 OF 2
F10743101

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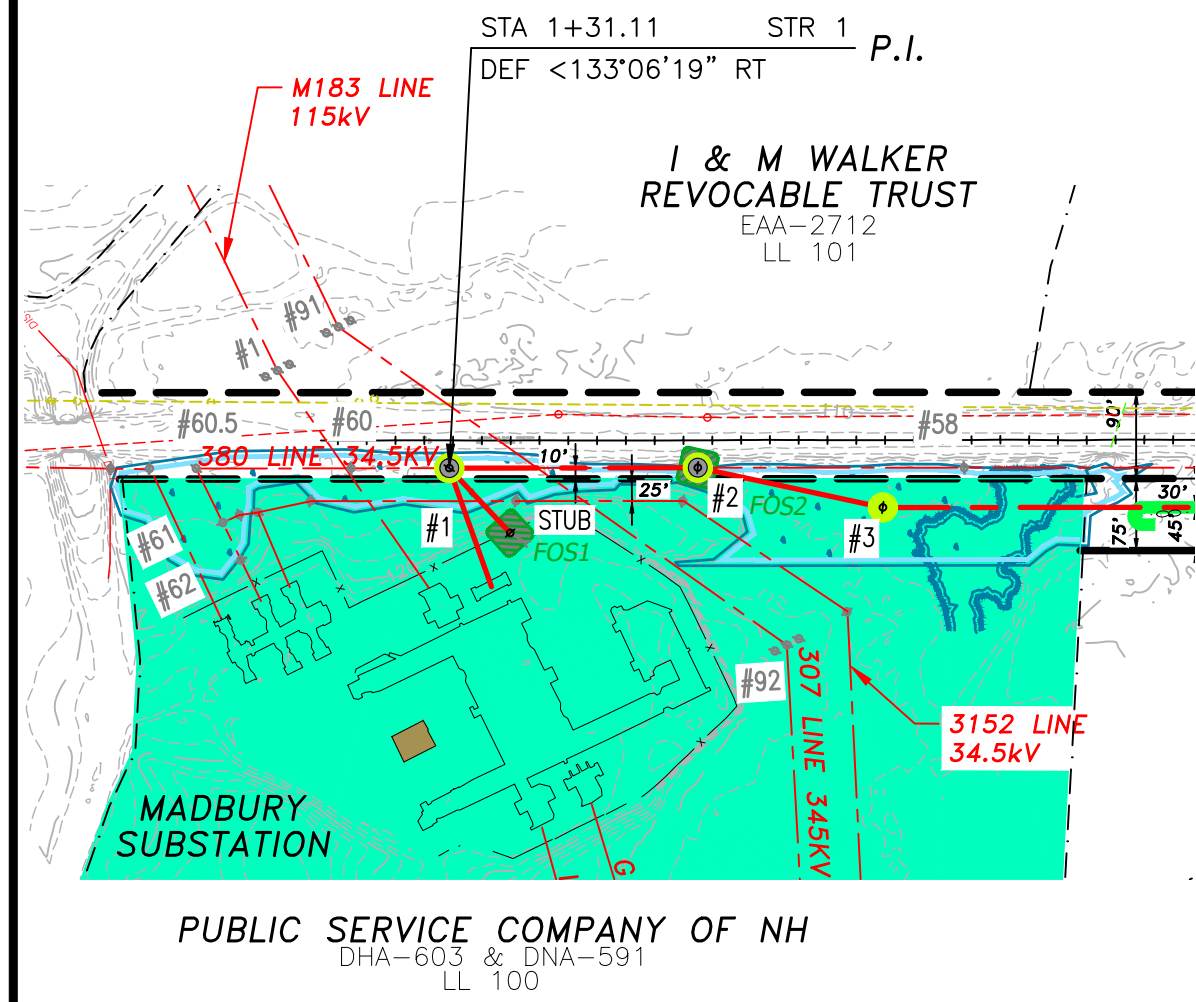


EVERSOURCE ENERGY

DES: EDR CHK: KMS
 DRW: SCF APR: APJ
 TOWN: MADBURY, DURHAM
 TRANSMISSION LINE: F107
 MILE NO: 1
 DISCIPLINE/SHT NO:
 SHEET 1 OF 13
 F10743001



MADBURY, N. H.

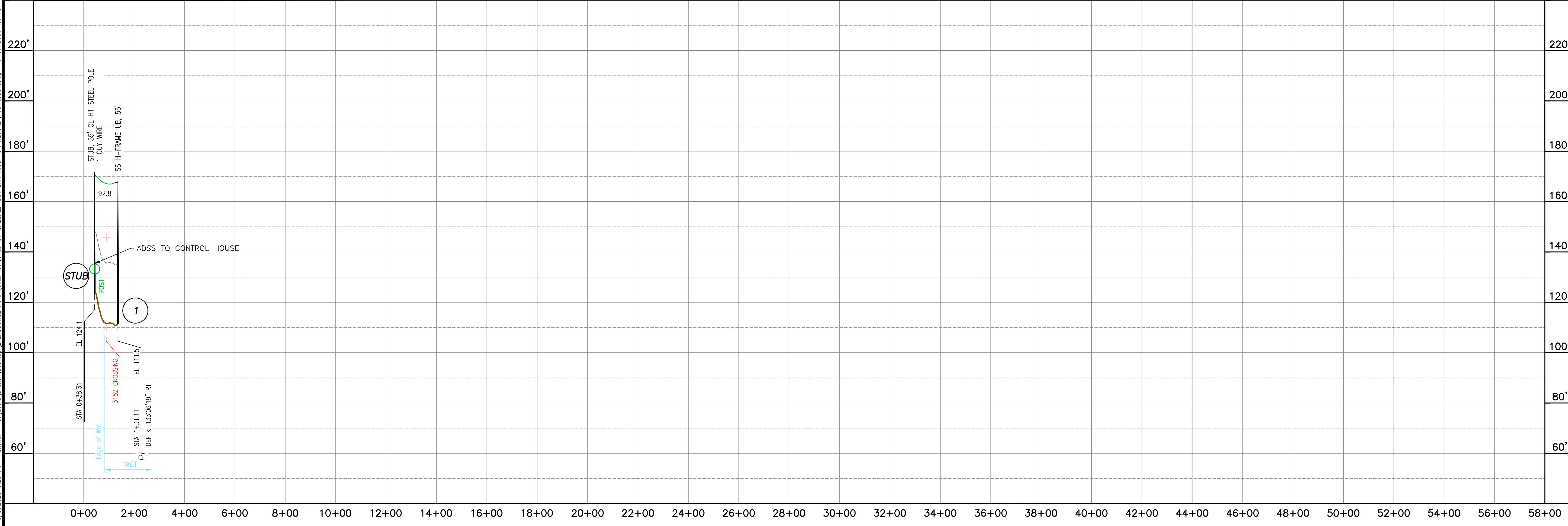
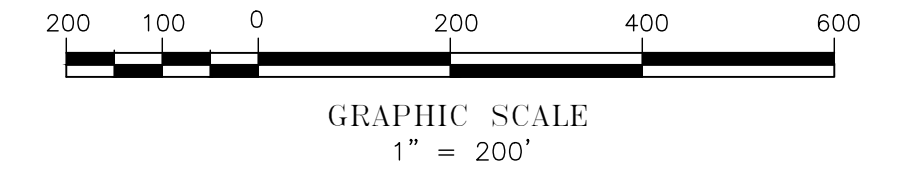


24 FIBER OPGW @ 1,000 LBS.
NESC HEAVY, 120'F
RULING SPAN = 93'

THIS PLAN FOR REFERENCE ONLY.
NO REPRESENTATION OR WARRANTY IS
MADE AS TO LOCATION OF
BOUNDARIES OR OTHER POINTS OF
REFERENCE

SPLICE INFORMATION		
FOS1		
STRUCTURE :	STUB	
DESCRIPTION :	ADSS TO CH	24 FIBER OPGW
REEL NO. :	ADSS 1	1
COILED CABLE :	0'	100'
DIST. NEXT SPLICE :	450' BACK	352' AHEAD

NOTES:
1. SEE DRAWING F10743101 FOR LEGEND AND SYMBOL INFORMATION.



NO.	REVISION	DATE	BY	CHKD	APPR.	GROUND OR NEUTRAL
1	ISSUED FOR CONSTRUCTION-MOD T1278A1	03/01/19	SCF	KMS	APJ	CONDUCTOR
2	AS-BUILT MOD T1278A1	06/08/20	SCF	KMS	APJ	CONDUCTOR
						24 FIBER OPGW (SHIELD WIRE)

EVERSOURCE
ENERGY

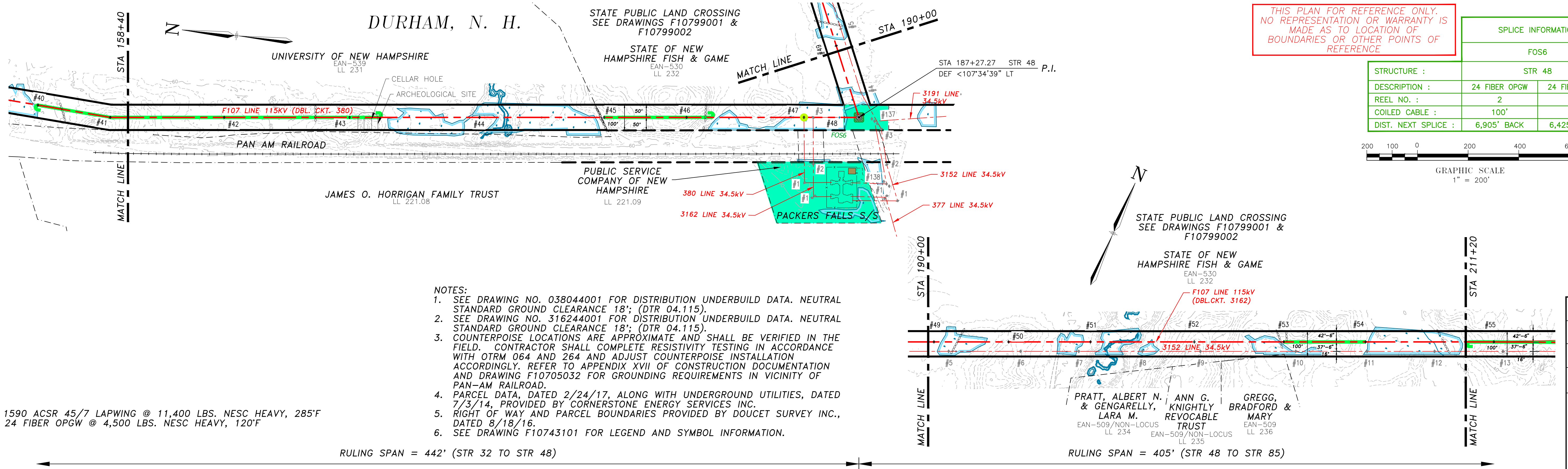
MADBURY S/S TO PORTSMOUTH S/S
115kV TRANSMISSION LINE
MILE SHEET

TOWN: MADBURY, DURHAM
TRANSMISSION LINE: F107
MILE NO: 1
DISCIPLINE/SHT NO.

DATE: 06/03/2016
SCALE: H: 1"=200', V: 1"=20'

SHEET 1A OF 13
F10743001

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THIS PLAN FOR REFERENCE ONLY.
NO REPRESENTATION OR WARRANTY IS
MADE AS TO LOCATION OF
BOUNDARIES OR OTHER POINTS OF
REFERENCE

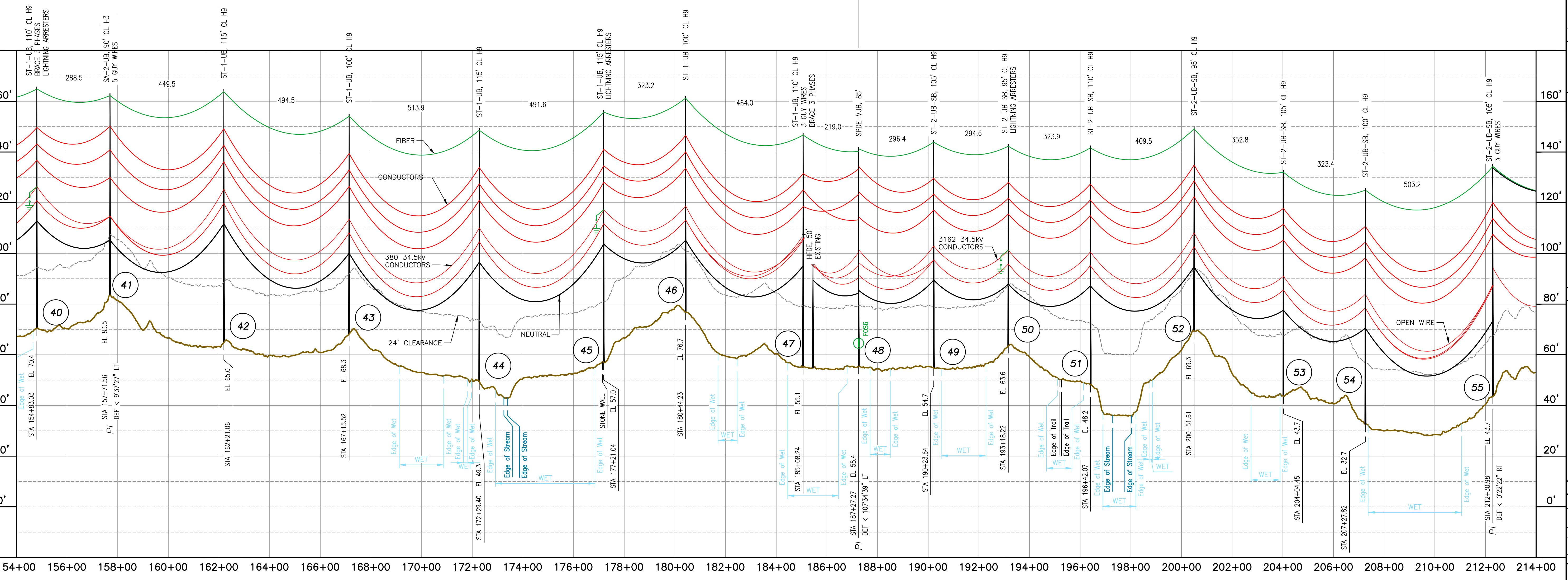
SPLICE INFORMATION	
FOS6	
STRUCTURE :	STR 48
DESCRIPTION :	24 FIBER OPGW 24 FIBER OPGW
REEL NO. :	2 2
COILED CABLE :	100' 100'
DIST. NEXT SPLICE :	6,905' BACK 6,425' AHEAD

- NOTES:
- SEE DRAWING NO. 038044001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18'; (DTR 04.115).
 - SEE DRAWING NO. 316244001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18'; (DTR 04.115).
 - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY. REFER TO APPENDIX XVII OF CONSTRUCTION DOCUMENTATION AND DRAWING F10705032 FOR GROUNDING REQUIREMENTS IN VICINITY OF PAN-AM RAILROAD.
 - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 - SEE DRAWING F10743101 FOR LEGEND AND SYMBOL INFORMATION.

1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F
24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F

RULING SPAN = 442' (STR 32 TO STR 48)

RULING SPAN = 405' (STR 48 TO STR 85)



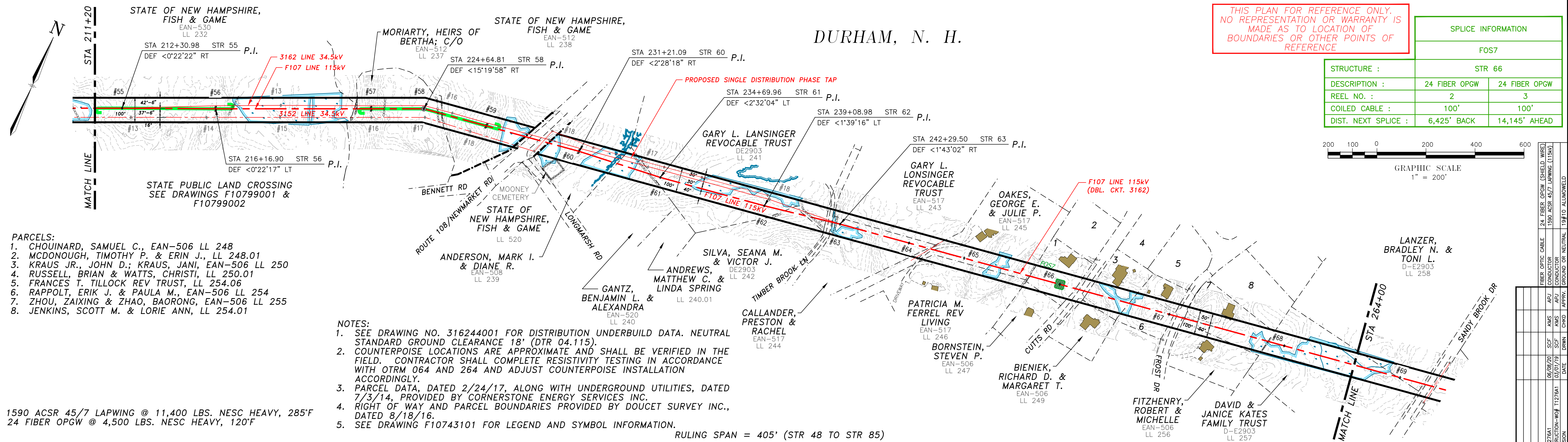
NO.	REVISION	DATE	BY	CHKD	APPR.	GROUND OR NEUTRAL
1	ISSUED FOR CONSTRUCTION	03/01/19	KUS	KUS	APJ	GROUND OR NEUTRAL
2	AS-BUILT	06/08/20	SCF	SCF	APJ	GROUND OR NEUTRAL

EVERSOURCE
ENERGY

MADBURY S/S TO PORTSMOUTH S/S
115kV TRANSMISSION LINE
MILE SHEET
DATE: 06/03/2016
SCALE: H: 1"=200', V: 1"=20'
SHEET 4 OF 13
F10743001

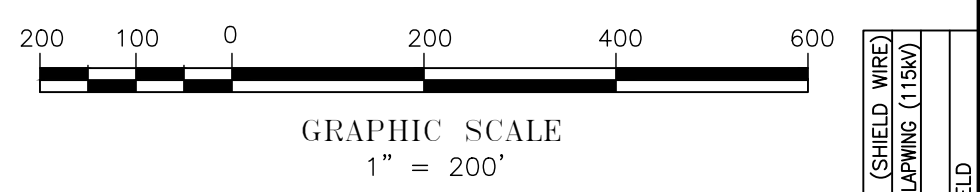
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BOUNDARIES OR OTHER POINTS OF
REFERENCE

SPlice INFORMATION	
FOS7	
STRUCTURE :	STR 66
DESCRIPTION :	24 FIBER OPGW 24 FIBER OPGW
REEL NO. :	2 3
COILED CABLE :	100' 100'
DIST. NEXT SPLICE :	6,425' BACK 14,145' AHEAD



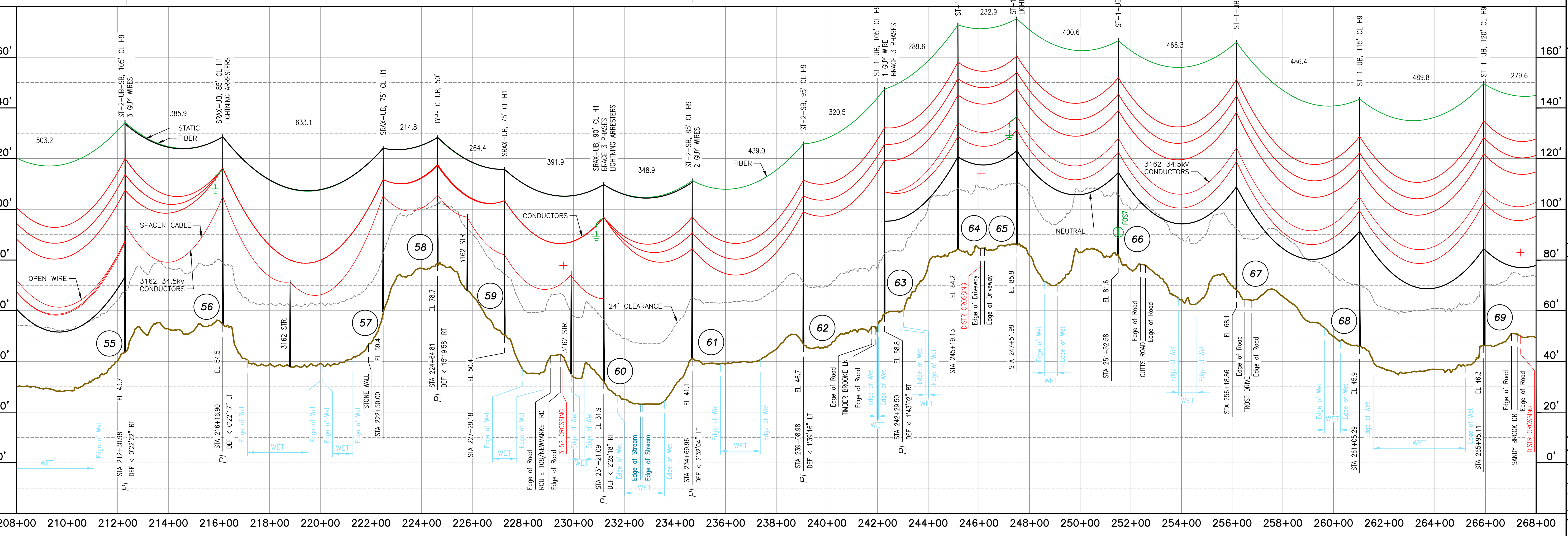
- PARCELS:
1. CHOUINARD, SAMUEL C., EAN-506 LL 248
 2. MCDONOUGH, TIMOTHY P. & ERIN J., LL 248.01
 3. KRAUS JR., JOHN D.; KRAUS, JANI, EAN-506 LL 250
 4. RUSSELL, BRIAN & WATTS, CHRISTI, LL 250.01
 5. FRANCES T. TILLOCK REV TRUST, LL 254.06
 6. RAPPOLT, ERIK J. & PAULA M., EAN-506 LL 254
 7. ZHOU, ZAIXING & ZHAO, BAORONG, EAN-506 LL 255
 8. JENKINS, SCOTT M. & LORIE ANN, LL 254.01

- NOTES:
1. SEE DRAWING NO. 316244001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
 2. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 3. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 4. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 5. SEE DRAWING F10743101 FOR LEGEND AND SYMBOL INFORMATION.

1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F
24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F

RULING SPAN = 405' (STR 48 TO STR 85)

19#10 ALUMOWELD @ 4,200 LBS. NESC HEAVY, 120°F
RULING SPAN = 444' (STR 55 TO STR 61)

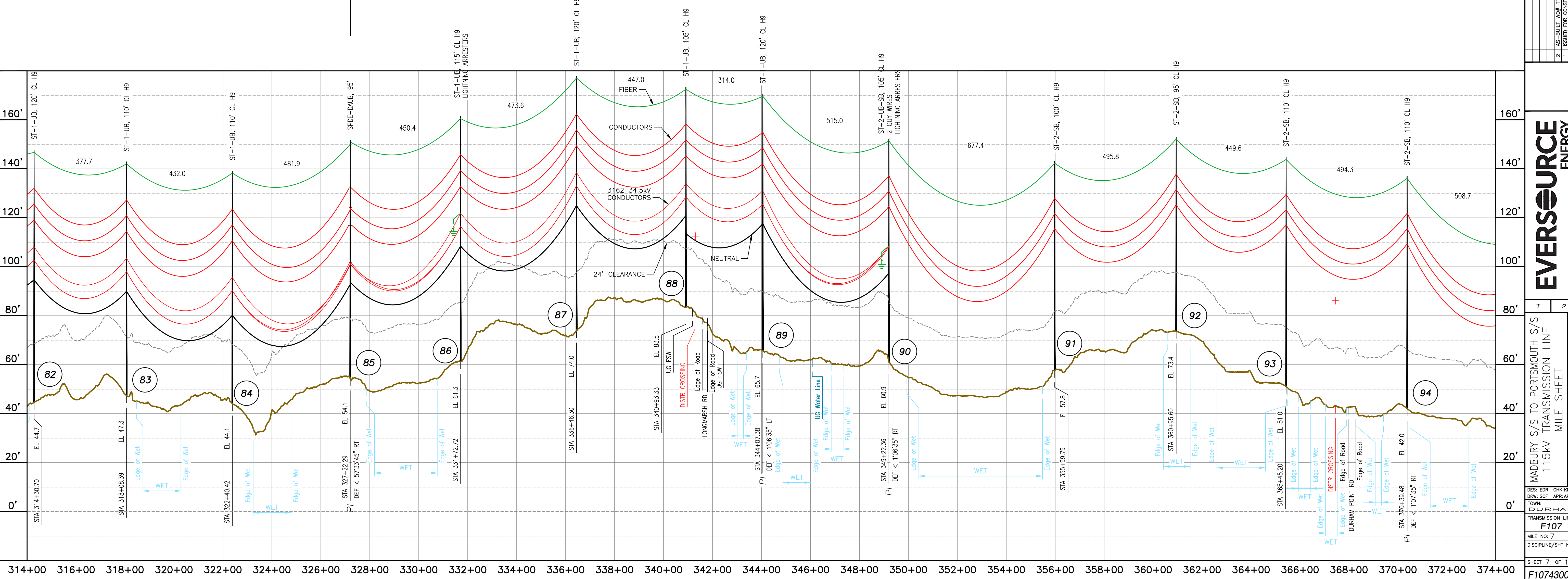
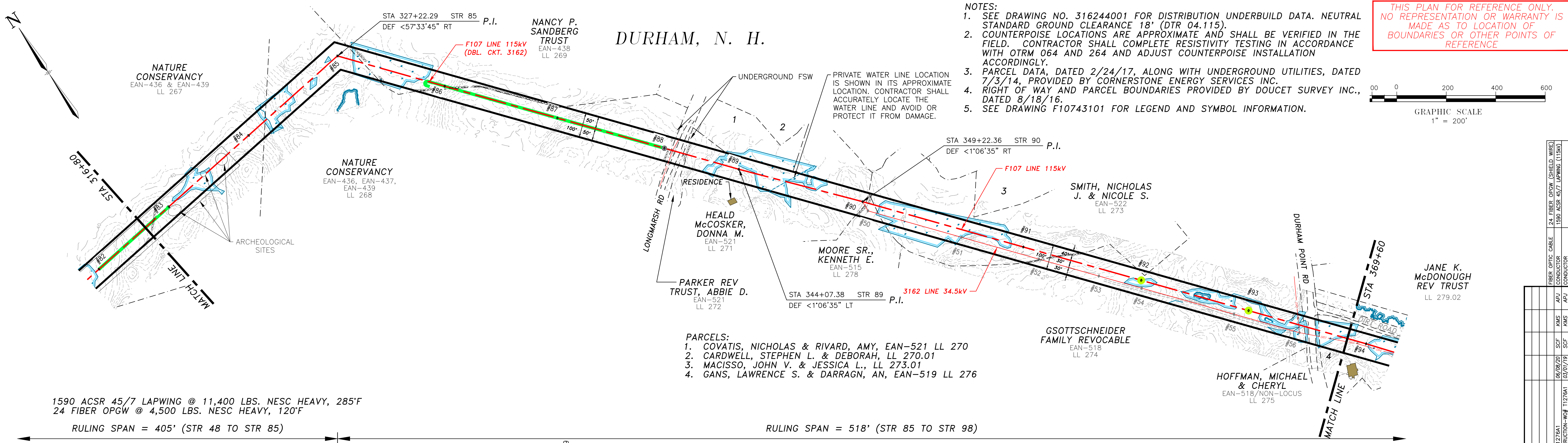


NO.	REVISION	DATE	BY	CHKD	APPR.	GROUND OR NEUTRAL
1	ISSUED FOR CONSTRUCTION-WORK T1278A1	03/01/19	KMS	APJ	KMS	CONDUCTOR
2	AS-BUILT WORK T1278A1	06/08/20	SCF	KMS	APJ	CONDUCTOR
1	ISSUED FOR CONSTRUCTION-WORK T1278A1	03/01/19	KMS	APJ	KMS	CONDUCTOR
1	ISSUED FOR CONSTRUCTION-WORK T1278A1	03/01/19	KMS	APJ	KMS	CONDUCTOR
1	ISSUED FOR CONSTRUCTION-WORK T1278A1	03/01/19	KMS	APJ	KMS	CONDUCTOR
1	ISSUED FOR CONSTRUCTION-WORK T1278A1	03/01/19	KMS	APJ	KMS	CONDUCTOR
1	ISSUED FOR CONSTRUCTION-WORK T1278A1	03/01/19	KMS	APJ	KMS	CONDUCTOR
1	ISSUED FOR CONSTRUCTION-WORK T1278A1	03/01/19	KMS	APJ	KMS	CONDUCTOR
1	ISSUED FOR CONSTRUCTION-WORK T1278A1	03/01/19	KMS	APJ	KMS	CONDUCTOR
1	ISSUED FOR CONSTRUCTION-WORK T1278A1	03/01/19	KMS	APJ	KMS	CONDUCTOR

EVERSOURCE ENERGY

MADBURY SYS TO PORTSMOUTH SYS
115kV TRANSMISSION LINE
MILE SHEET
DATE: 06/03/2016
SCALE: H: 1"=200', V: 1"=20'
SHEET 5 OF 13
F10743001

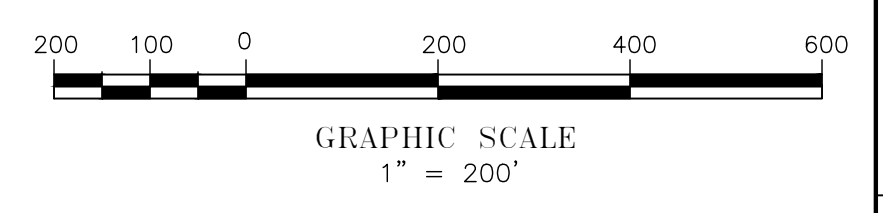
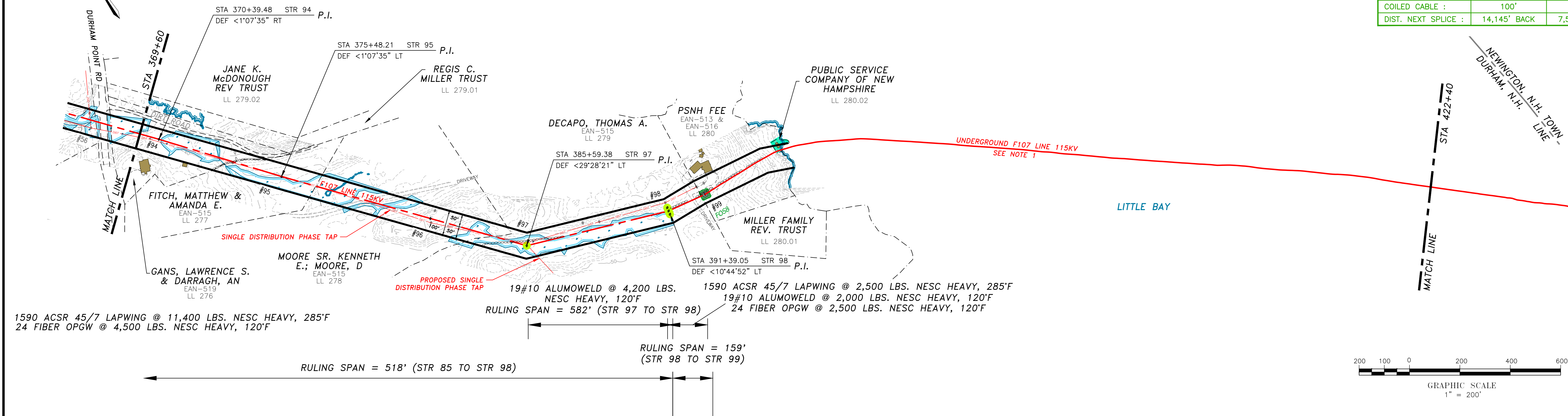
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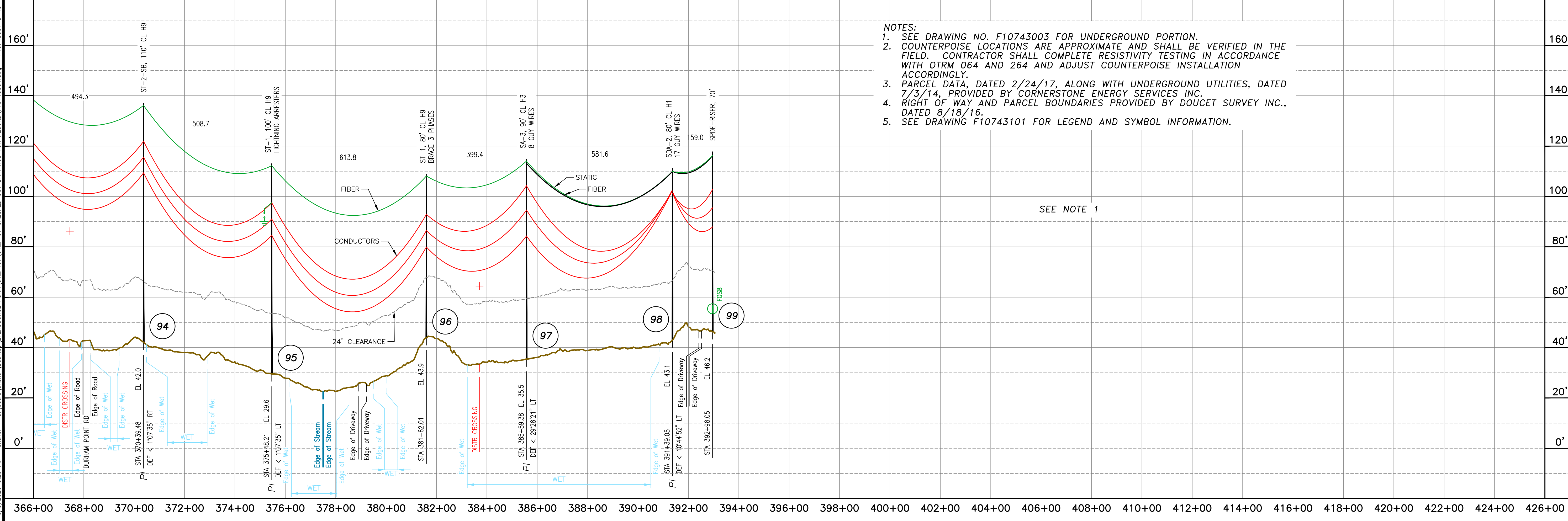
DURHAM, N. H.

THIS PLAN FOR REFERENCE ONLY.
NO REPRESENTATION OR WARRANTY IS
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REFERENCE

SPLICE INFORMATION	
FOS8	
STRUCTURE :	STR 99
DESCRIPTION :	24 FIBER OPGW SUBMARINE FIBER
REEL NO. :	3 -
COILED CABLE :	100' 100'
DIST. NEXT SPLICE :	14,145' BACK 7,564' AHEAD



NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUED FOR CONSTRUCTION	03/01/19	SCF	KMS	APJ
2	AS-BUILT	11/27/21	SCF	KMS	APJ



- NOTES:
- SEE DRAWING NO. F10743003 FOR UNDERGROUND PORTION.
 - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 - SEE DRAWING F10743101 FOR LEGEND AND SYMBOL INFORMATION.

SEE NOTE 1

EVERSOURCE ENERGY

T 2

MADBURY S/S TO PORTSMOUTH S/S
115kV TRANSMISSION LINE
MILE SHEET

DATE: 09/03/2016

DES: EDR CHK: KMS
DRW: SCF APR: APJ

TOWN: DURHAM

TRANSMISSION LINE: F107

MILE NO: 8

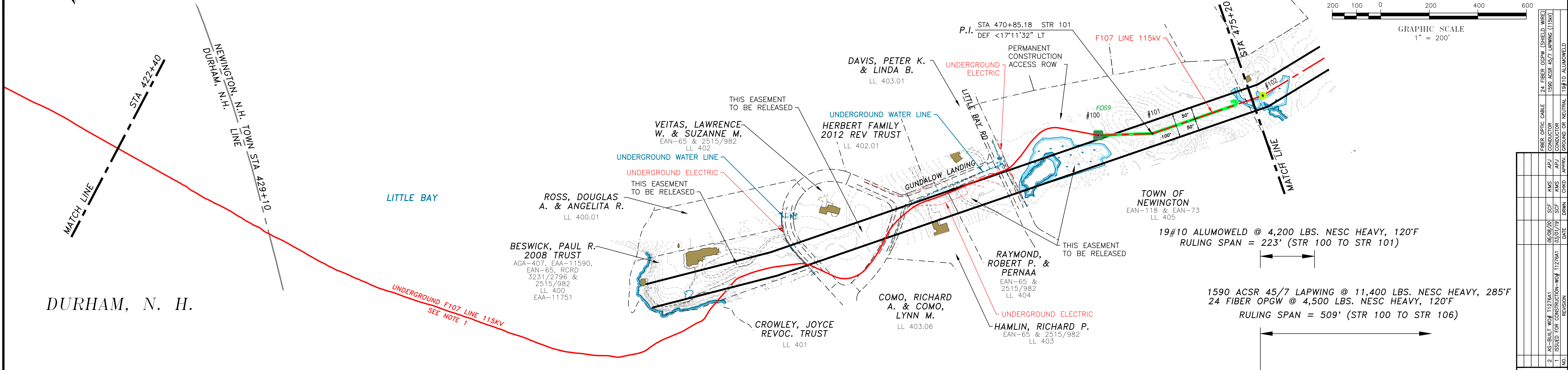
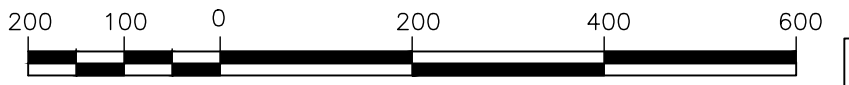
DISCIPLINE/SHT NO.

SHEET 8 OF 13
F10743001

NEWINGTON, N. H.

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NO REPRESENTATION OR WARRANTY IS
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REFERENCE

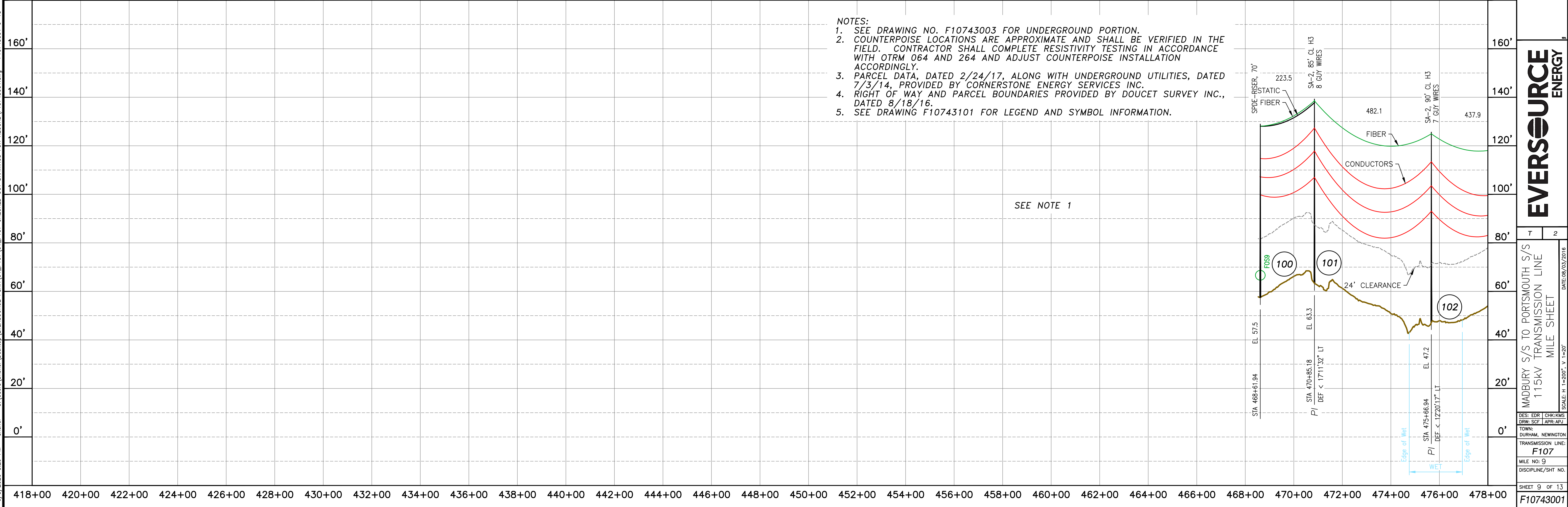
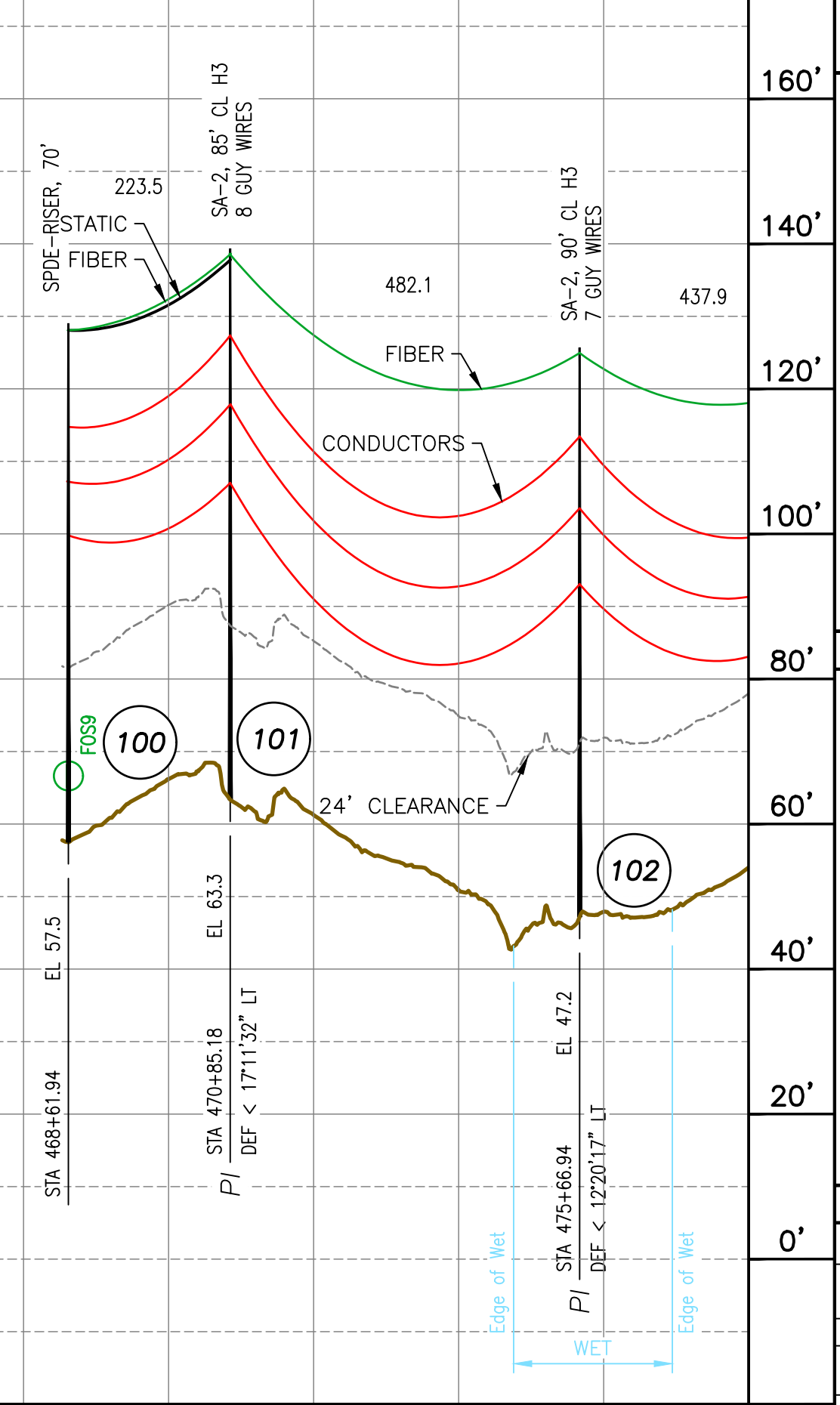
SPlice INFORMATION		
FOS9		
STRUCTURE :	STR 100	
DESCRIPTION :	SUBMARINE FIBER	24 FIBER OPGW
REEL NO. :	-	4
COILED CABLE :	100'	100'
DIST. NEXT SPLICE :	7,564' BACK	2,819' AHEAD



19#10 ALUMOWELD @ 4,200 LBS. NESC HEAVY, 120°F
RULING SPAN = 223' (STR 100 TO STR 101)

1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F
24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F
RULING SPAN = 509' (STR 100 TO STR 106)

- NOTES:
- SEE DRAWING NO. F10743003 FOR UNDERGROUND PORTION.
 - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 - SEE DRAWING F10743101 FOR LEGEND AND SYMBOL INFORMATION.



EVERSOURCE ENERGY

MADBURY S/S TO PORTSMOUTH S/S
115kV TRANSMISSION LINE
MILE SHEET

DES: EDR CHK: KMG
DRW: SCF APR: APJ

TOWN: DURHAM, NEWINGTON
TRANSMISSION LINE: F107
MILE NO: 9
DISCIPLINE/SHT NO.

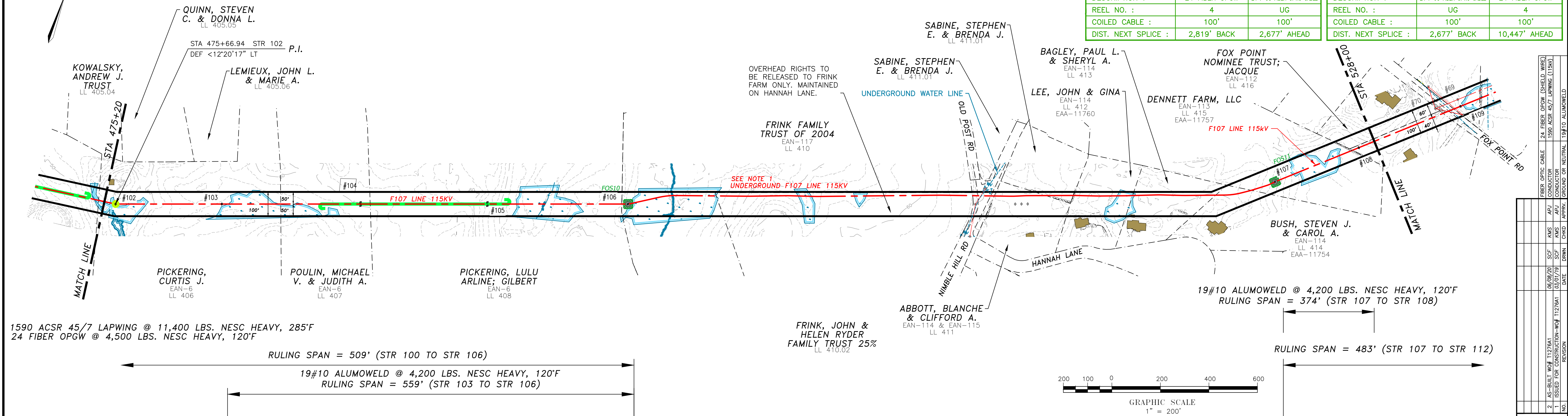
DATE: 09/03/2016
SCALE: H. 1"=200', V. 1"=20'

SHEET 9 OF 13
F10743001

NEWINGTON, N. H.

THIS PLAN FOR REFERENCE ONLY. NO REPRESENTATION OR WARRANTY IS MADE AS TO LOCATION OF BOUNDARIES OR OTHER POINTS OF REFERENCE

SPLICE INFORMATION		SPLICE INFORMATION	
FOS10		FOS11	
STRUCTURE :	STR 106	STRUCTURE :	STR 107
DESCRIPTION :	24 FIBER OPGW 24 F UG FIBER OPTIC CABLE	DESCRIPTION :	24 F UG FIBER OPTIC CABLE 24 FIBER OPGW
REEL NO. :	4 UG	REEL NO. :	4
COILED CABLE :	100'	COILED CABLE :	100'
DIST. NEXT SPLICE :	2,819' BACK 2,677' AHEAD	DIST. NEXT SPLICE :	2,677' BACK 10,447' AHEAD



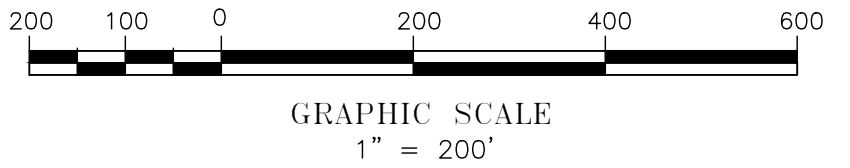
1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F
24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F

RULING SPAN = 509' (STR 100 TO STR 106)

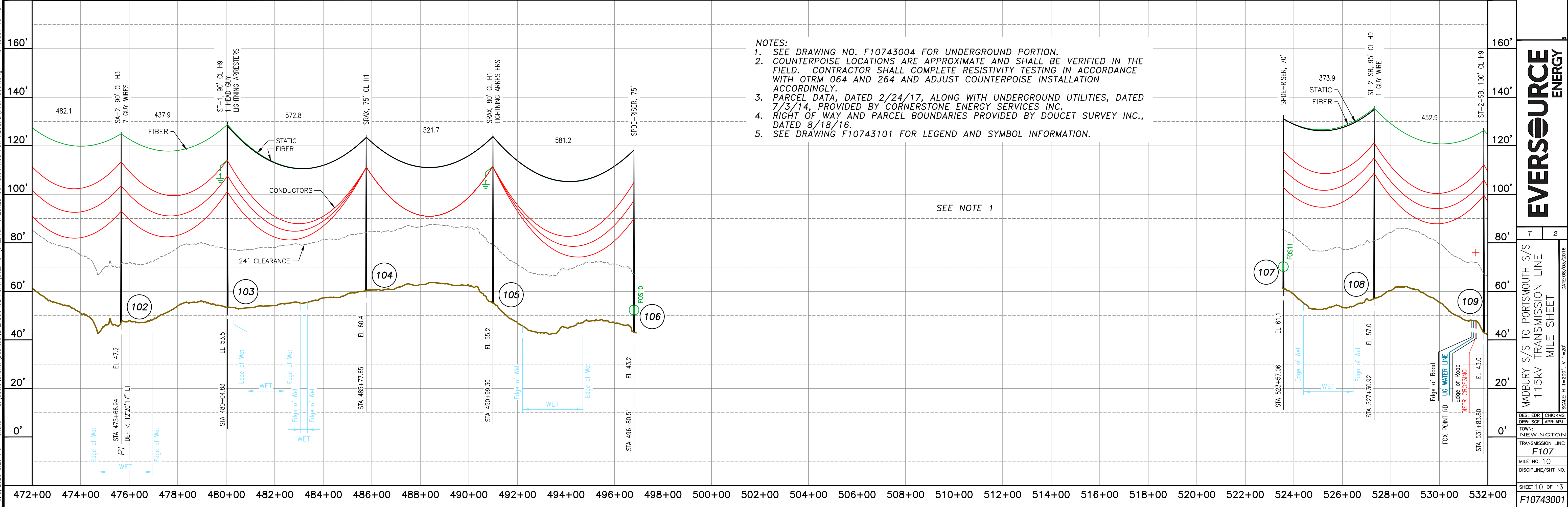
19#10 ALUMOWELD @ 4,200 LBS. NESC HEAVY, 120°F
RULING SPAN = 559' (STR 103 TO STR 106)

19#10 ALUMOWELD @ 4,200 LBS. NESC HEAVY, 120°F
RULING SPAN = 374' (STR 107 TO STR 108)

RULING SPAN = 483' (STR 107 TO STR 112)



- NOTES:
- SEE DRAWING NO. F10743004 FOR UNDERGROUND PORTION.
 - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 - SEE DRAWING F10743101 FOR LEGEND AND SYMBOL INFORMATION.



SEE NOTE 1

EVERSOURCE ENERGY

T 2

MADBURY SYS TO PORTSMOUTH SYS
115kV TRANSMISSION LINE
MILE SHEET

DATE: 09/03/2016

DES: EDR CHK: KJG
DRW: SCF APR: APJ

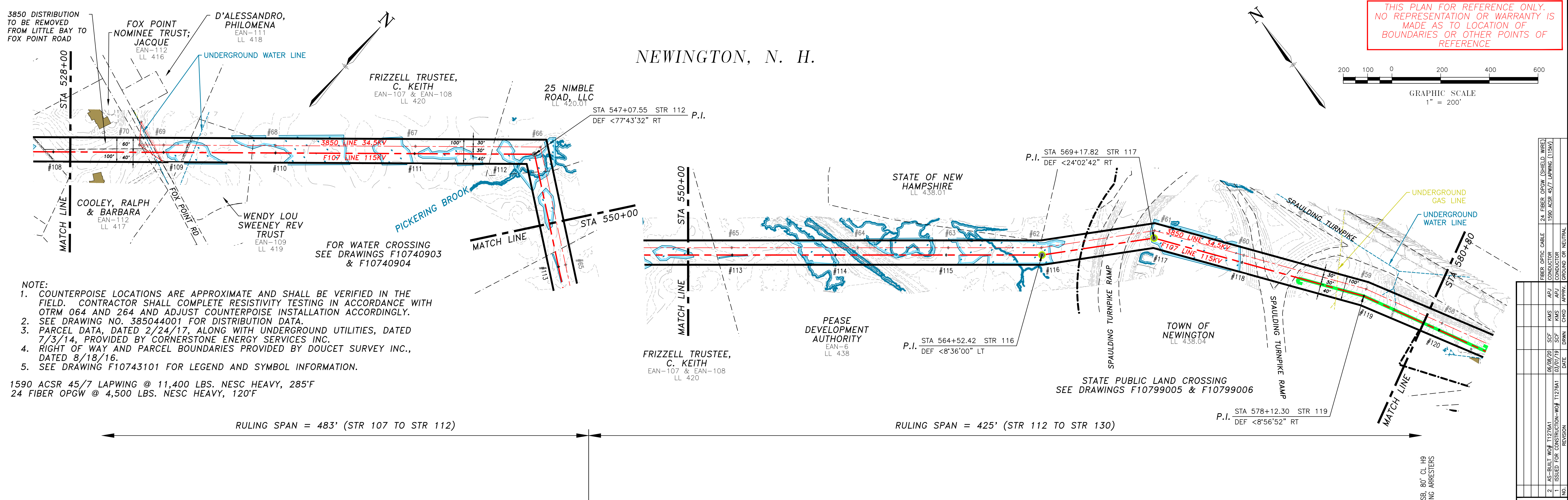
TOWN: NEWINGTON

TRANSMISSION LINE:
F107

MILE NO: 10
DISCIPLINE/SHT NO.

SHEET 10 OF 13
F10743001

ES: VER. 11/2015

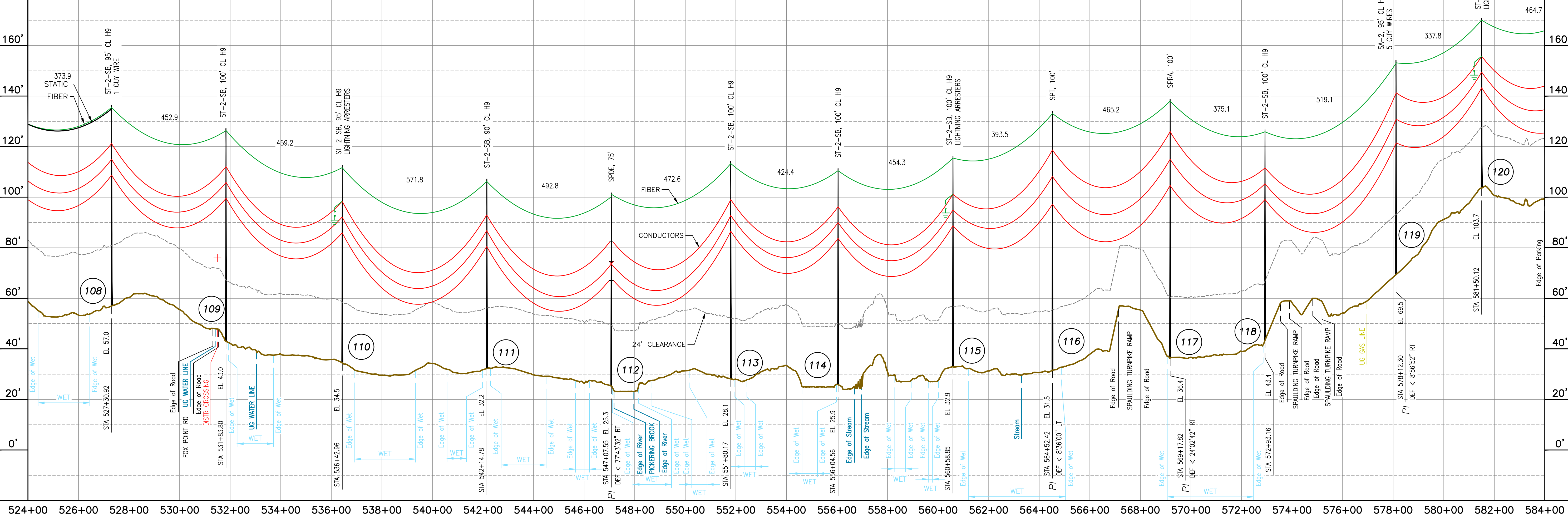


- NOTE:**
- COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 - SEE DRAWING NO. 385044001 FOR DISTRIBUTION DATA.
 - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 - SEE DRAWING F10743101 FOR LEGEND AND SYMBOL INFORMATION.

1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F
 24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F

NO.	REVISION	DATE	BY	CHKD	APPR.	GROUND OR NEUTRAL
1	ISSUED FOR CONSTRUCTION - W&A T1278A1	03/01/19	SCF	KMS	APJ	CONDUCTOR
2	AS-BUILT W&A T1278A1	08/08/20	SCF	KMS	APJ	CONDUCTOR
						24 FIBER OPGW (SHIELD WIRE)
						1590 ACSR 45/7 LAPWING (115KV)

6/5/2020 3:29 PM - sfisher - C:\Users\sfisher\Desktop\EVERSOURCE_PSNH\01_F107\01_F107 CHECKED OUT DRAWINGS FOR RECORD\F10743001.dwg - F10743001 11-13



EVERSOURCE ENERGY

MADBURY SYS TO PORTSMOUTH SYS
115kV TRANSMISSION LINE
MILE SHEET

DATE: 09/03/2016
SCALE: H: 1"=200', V: 1"=20'

T 2

DISCIPLINE/SHT NO.

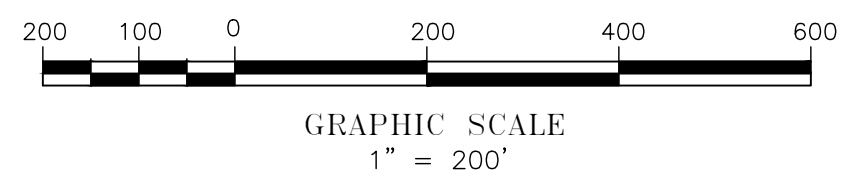
SHEET 11 OF 13
F10743001

ES: VER. 11/2015

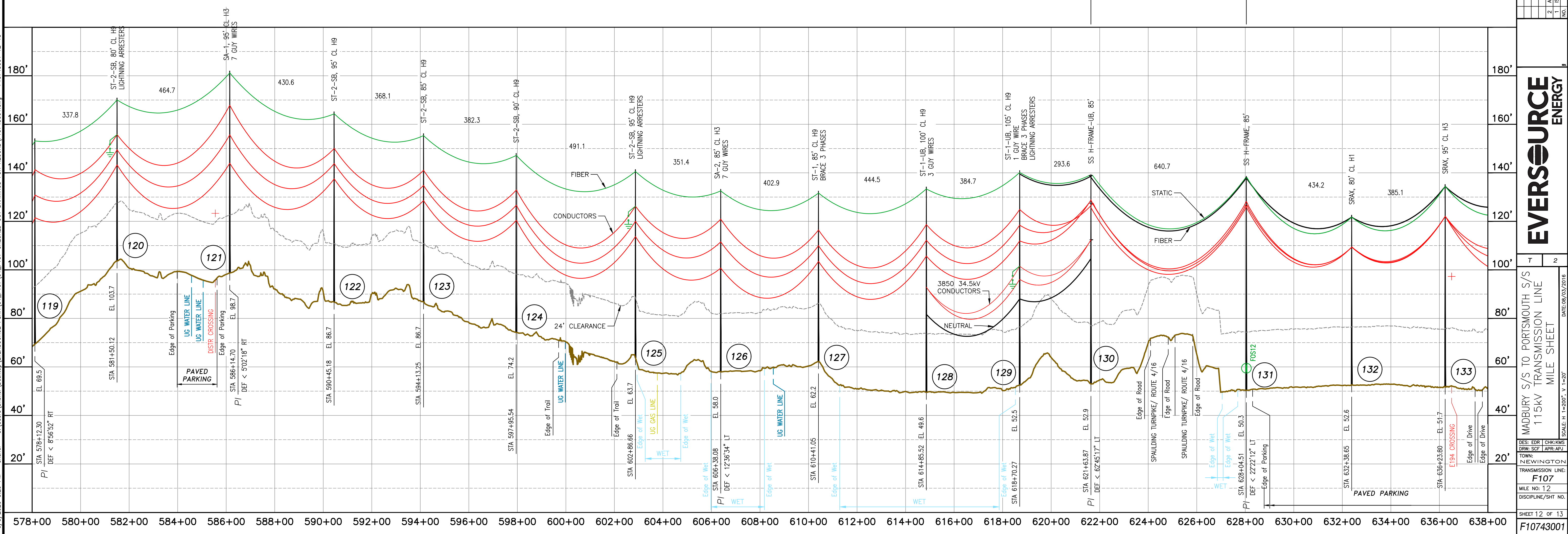
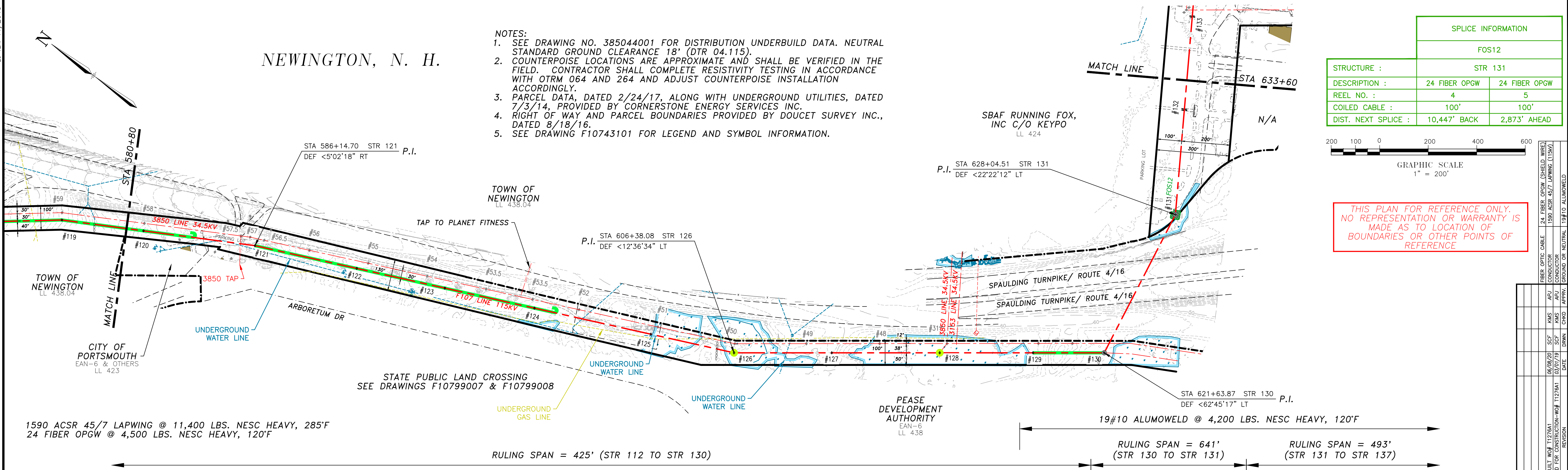
NEWINGTON, N. H.

- NOTES:**
- SEE DRAWING NO. 385044001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
 - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 - SEE DRAWING F10743101 FOR LEGEND AND SYMBOL INFORMATION.

SPLICE INFORMATION		
FOS12		
STRUCTURE :	STR 131	
DESCRIPTION :	24 FIBER OPGW	24 FIBER OPGW
REEL NO. :	4	5
COILED CABLE :	100'	100'
DIST. NEXT SPLICE :	10,447' BACK	2,873' AHEAD



THIS PLAN FOR REFERENCE ONLY. NO REPRESENTATION OR WARRANTY IS MADE AS TO LOCATION OF BOUNDARIES OR OTHER POINTS OF REFERENCE



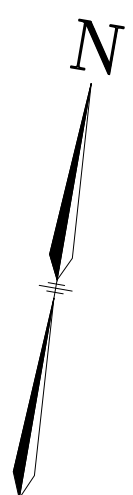
NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUED FOR CONSTRUCTION	03/07/19	KMS	KMS	APR
2	AS-BUILT	08/08/20	SCF	SCF	APR

EVERSOURCE ENERGY

MADBURY SYS TO PORTSMOUTH SYS
115kV TRANSMISSION LINE
MILE SHEET
DATE: 09/03/2016
SCALE: H: 1"=200', V: 1"=60'
SHEET 12 OF 13
F107
DISCIPLINE/SHT NO.

6/5/2020 3:29 PM - sfisher - C:\Users\sfisher\Desktop\EVERSOURCE\PSNH\01_F107\01_F107_CHECKED_OUT_DRAWINGS\F10743001.dwg - F10743001_12-13

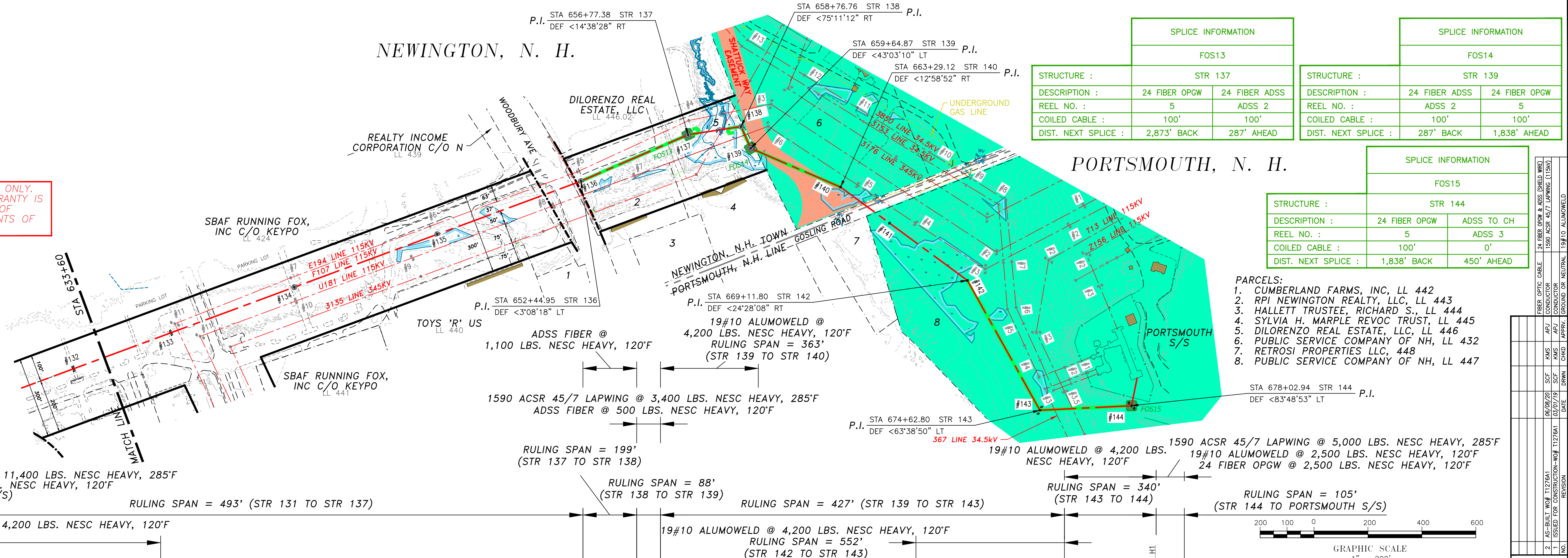
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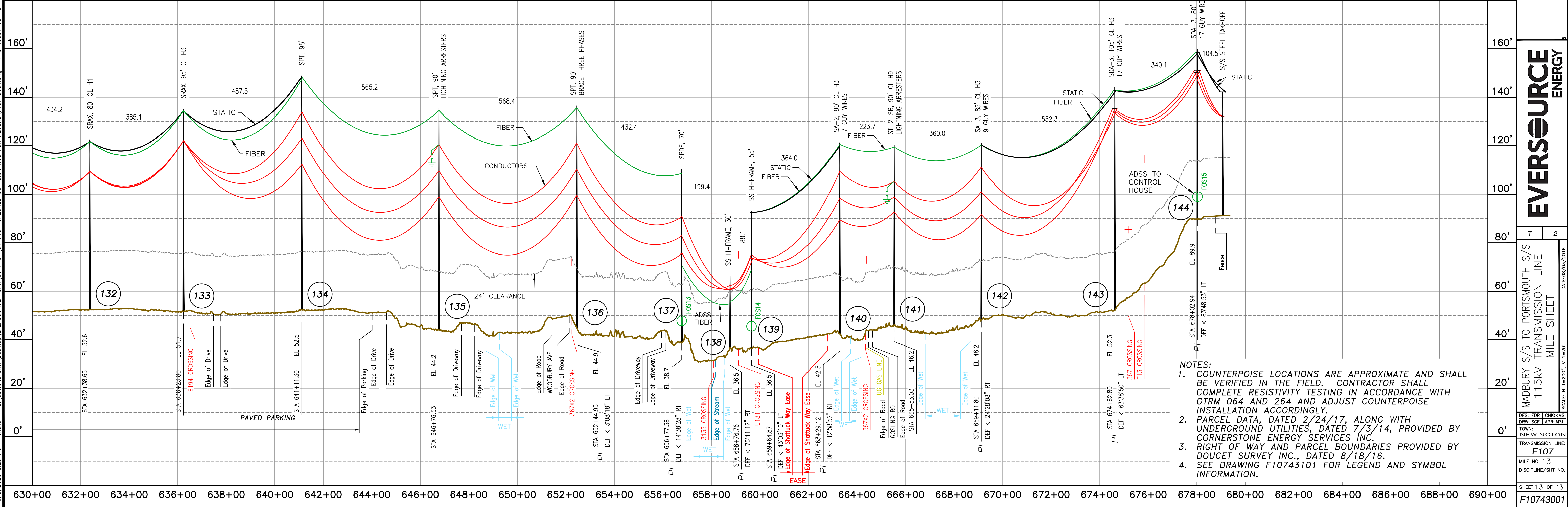
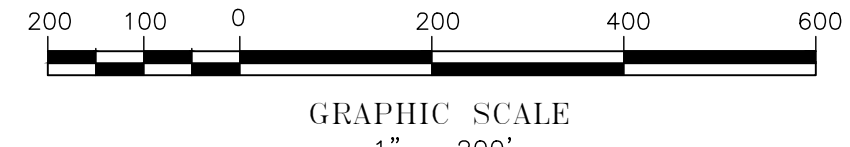
NEWINGTON, N. H.

PORTSMOUTH, N. H.

THIS PLAN FOR REFERENCE ONLY.
NO REPRESENTATION OR WARRANTY IS
MADE AS TO LOCATION OF
BOUNDARIES OR OTHER POINTS OF
REFERENCE



- PARCELS:
- CUMBERLAND FARMS, INC, LL 442
 - RPI NEWINGTON REALTY, LLC, LL 443
 - HALLETT TRUSTEE, RICHARD S., LL 444
 - SYLVIA H. MARPLE REVOC TRUST, LL 445
 - DILORENZO REAL ESTATE, LLC, LL 446
 - PUBLIC SERVICE COMPANY OF NH, LL 432
 - RETROSI PROPERTIES LLC, 448
 - PUBLIC SERVICE COMPANY OF NH, LL 447



- NOTES:
- COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 - SEE DRAWING F10743101 FOR LEGEND AND SYMBOL INFORMATION.

EVERSOURCE ENERGY

MADBURY S/S TO PORTSMOUTH S/S
115kV TRANSMISSION LINE
MILE SHEET
DATE: 09/03/2016
SCALE: H: 1"=200', V: 1"=20'
SHEET 13 OF 13
F10743001

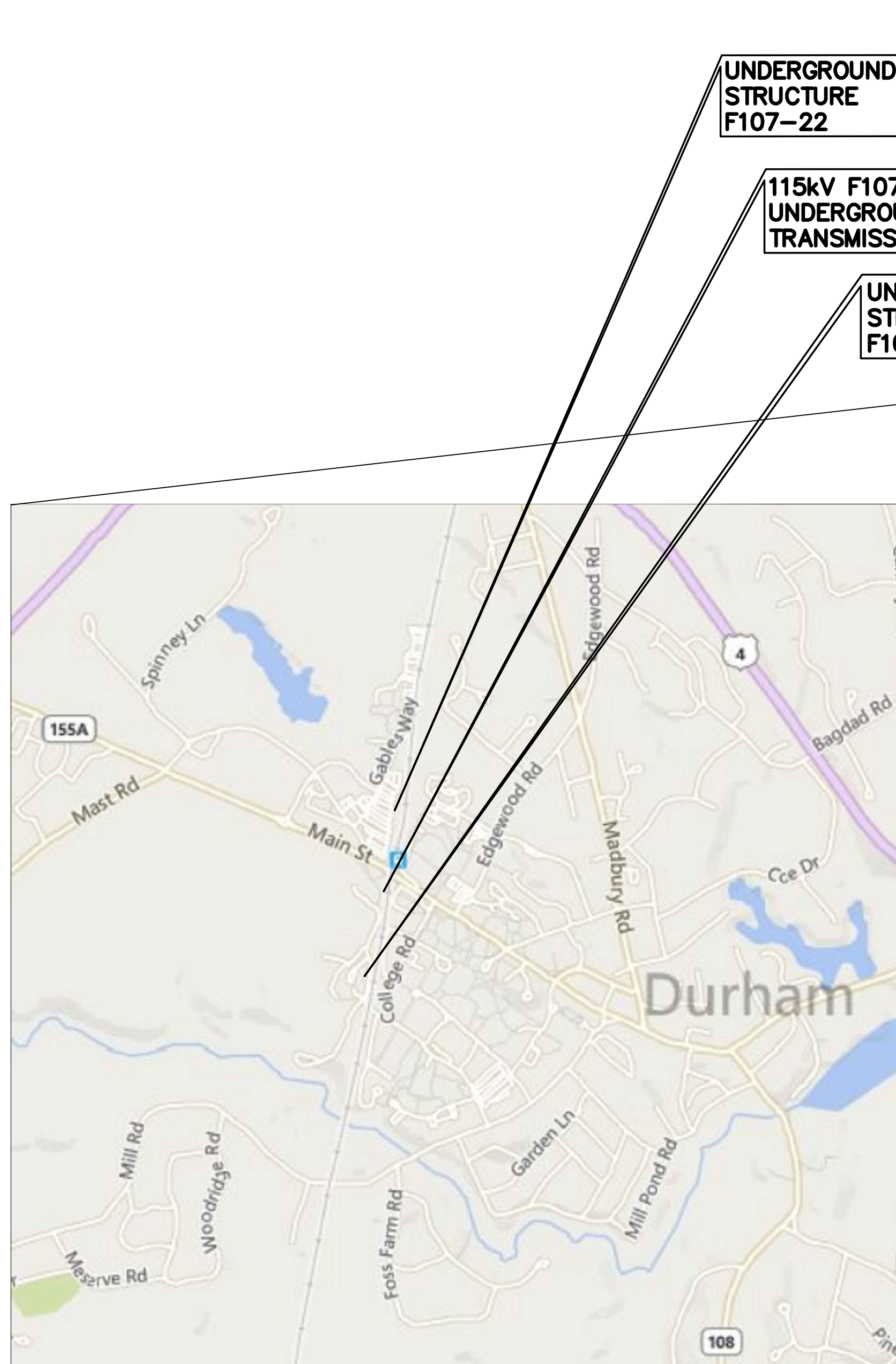
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE DBA EVERSOURCE ENERGY SEACOAST RELIABILITY PROJECT, CIRCUIT F107 UNH, DURHAM 115kV UNDERGROUND TRANSMISSION LINE

ES VER. 11/2015

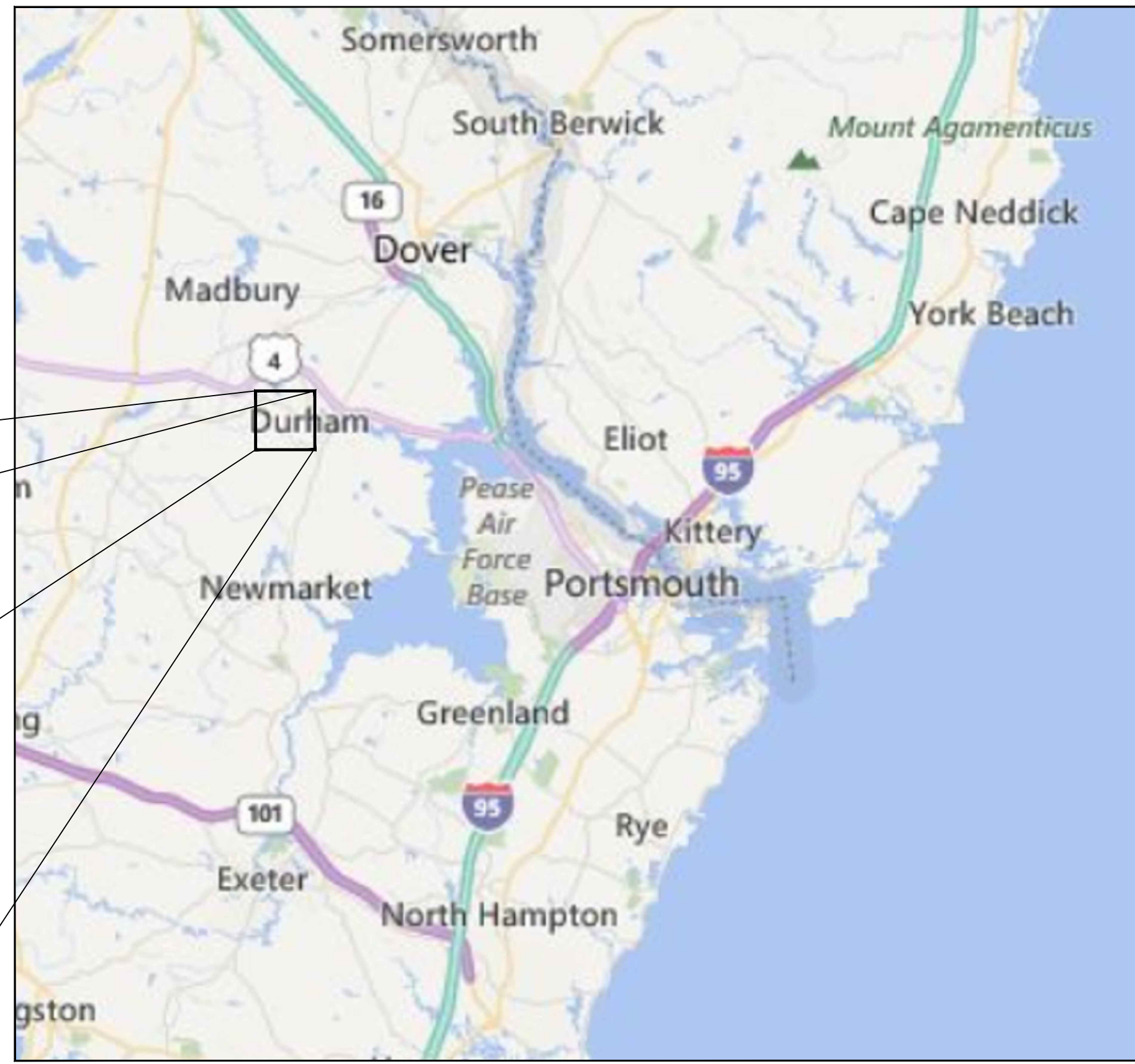
DRAWING MANIFEST	
DRAWING NO.	TITLE/DESCRIPTION
SHEET 1 OF 5	COVER SHEET, LEGEND, AND DRAWING MANIFEST
SHEET 2 OF 5	PLAN AND PROFILE DRAWING STA. 73+00 TO STA. 84+00
SHEET 3 OF 5	PLAN AND PROFILE DRAWING STA. 84+00 TO STA. 95+00
SHEET 4 OF 5	RISER SWEEP AND PIPE JACKING DETAILS
SHEET 5 OF 5	MISCELLANEOUS DETAILS

LEGEND

	ELECTRICAL STRUCTURE
	LAMP POST
	WOODEN POST
	IRRIGATION CONTROL VALVE
	ELECTRIC BOX
	TELECOMMUNICATION BOX
	UTILITY BOX
	CATCH BASIN
	CONIFEROUS TREE
	DECIDUOUS TREE
	CONCRETE
	RIP RAP
	LANDSCAPED AREA
	CRUSHED STONE
	SURFACE LEDGE
	TYPICAL
	RETAINING
	EDGE OF PAVEMENT
	CONCRETE
	TREE LINE
	SHRUB LINE
	PROPERTY LINES
	STORM DRAIN
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	EXISTING WATER LINE
	TELEPHONE LINE
	EXISTING SEWER
	STEAM LINE
	PROPOSED DRAIN
	EASMENT
	GAS
	PROPOSED STORM DRAIN
	UNDER DRAIN
	PROPOSED UNDER DRAIN
# symbol"/>	PERMITTING STRUCTURE NUMBER PER NHSEC APPLICATION



VICINITY MAP
NOT TO SCALE



AREA MAP
NOT TO SCALE

General Notes

- THE PLANIMETRICS, UTILITIES AND NATURAL FEATURES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. EXISTING AND PROPOSED CONDITIONS OF UNH CAMPUS PROVIDED BY THIGHE & BOND, WITH SUPPLEMENTAL SURVEY BY DOUCET. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK AND OTHER UTILITY LOCATING ACTIVITIES. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG, 811 OR 1-800-344-7233.
- VERTICAL DATUM IS BASED ON NAVD88, HORIZONTAL DATUM IS BASED ON NEW HAMPSHIRE STATE PLANE IN US FEET, NAD83
- VERTICAL LOCATION OF SUBSURFACE UTILITY LINES ARE BASED ON ASSUMED DEPTHS USING BEST AVAILABLE INFORMATION AND MAY VARY FROM THE ACTUAL VERTICAL LOCATIONS. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
- DETAIL DESIGN MAY BE OPTIMIZED TO REFLECT ACTUAL CONDITIONS WITH OWNER REVIEW AND ACCEPTANCE.
- ALL WORK SHALL BE PERFORMED WITHIN THE DESIGNATED PROPERTIES AS NOTED ON THE DRAWINGS.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AS DETERMINED BY OWNER AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, AND THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
- CIVIL CONTRACTOR SHALL HAUL AWAY ALL UNUSED EXCAVATED MATERIAL TO PERMITTED SOIL DISPOSAL SITE PROJECT SPECIFICATIONS, AND THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
- CIVIL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY & ALL UTILITIES AND FACILITIES (INCLUDING THOSE NOT SHOWN ON THE DRAWINGS) DAMAGED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, APPLICABLE UTILITY SPECIFICATION, FEDERAL, STATE AND LOCAL REQUIREMENTS.
- ABANDONED UTILITIES SHALL BE CUT AND CAPPED AS NECESSARY WITH UTILITY OWNER REVIEW AND ACCEPTANCE. ABANDONED GAS LINES SHALL NOT BE CUT.
- CIVIL CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING BEST MANAGEMENT PRACTICES FOR CONTROLLING EROSION AND SEDIMENTATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS. CIVIL CONTRACTOR SHALL RESTORE GRADE TO PRE-CONSTRUCTION ELEVATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS. PROPOSED DUCT BANK SHALL MAINTAIN A MINIMUM CLEARANCE OF 2'-6" BETWEEN THE CONCRETE ENCASUREMENT AND GRADE, OR AS SHOWN ON THE DRAWINGS.
- PROPOSED DUCT BANK SHALL MAINTAIN A MINIMUM CLEARANCE OF 2'-6" BETWEEN THE CONCRETE ENCASUREMENT AND GRADE OR SHOWN ON THE DRAWINGS.
- ALL VERTICAL RADII ARE 500' AND ALL HORIZONTAL RADII ARE 500' UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- PROPOSED DUCT BANK SHALL MAINTAIN MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 24" PER UTM 077 TO EXISTING UTILITIES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY OWNER OF ALL UNDOCUMENTED UTILITIES DISCOVERED DURING CONSTRUCTION THAT IMPEDE ON THE REQUIRED CLEARANCES TO THE PROPOSED DUCT BANK.
- PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. CONTRACTOR IS RESPONSIBLE FOR ENSURING PRINTED COPIES ARE THE LATEST REVISION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND APPLICABLE EVERSOURCE UTRM REQUIREMENTS.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH MEMORANDUM OF UNDERSTANDING BETWEEN EVERSOURCE AND THE UNIVERSITY OF NEW HAMPSHIRE AND TOWN OF DURHAM.
- SEE DRAWINGS F10743001 AND F10705026 FOR CONNECTION CONNECTION DETAILS BETWEEN THE OVERHEAD AND UNDERGROUND LINES. SEE DRAWING F10713401 FOR PHASING OF F107 LINE.
- SEE ENVIRONMENTAL CONSTRUCTION MAPS AND DETAILS FOR ENVIRONMENTAL CONTROLS AND ACCESS LOCATIONS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NH SITE EVALUATION COMMITTEE REQUIREMENTS AND CONDITIONS.
- DIMENSIONS OF JACKING AND RECEIVING PITS ARE BASE ON PREVIOUS PROJECTS. FINAL SIZE SHALL BE DETERMINED BY INSTALLATION CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION AND SHORING.
- ALL WORK SHALL BE COMPLETED WITHIN THE EVERSOURCE PERMANENT AND CONSTRUCTION EASEMENT AREAS SHOWN ON THE PLANS.

THREE BUSINESS DAYS BEFORE YOU DIG CALL
NEW HAMPSHIRE DIG SAFE SYSTEM, INC.
 TOLL FREE
1-888-344-7233

**Know what's below.
Call before you dig.**

PSNH (PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE)
 DESIGN ENGINEER: JOSEPH SPERRY
 POWER ENGINEERS
 PROJECT ENGINEER: TODD GOYETTE

PSNH (PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE)
 WORK ORDER NUMBER: T1276A1
 EPN-8466
 POWER ENGINEERS
 PROJECT NUMBER: 133007

PRINT DRAWING TO SCALE ON 22"x34" SHEET

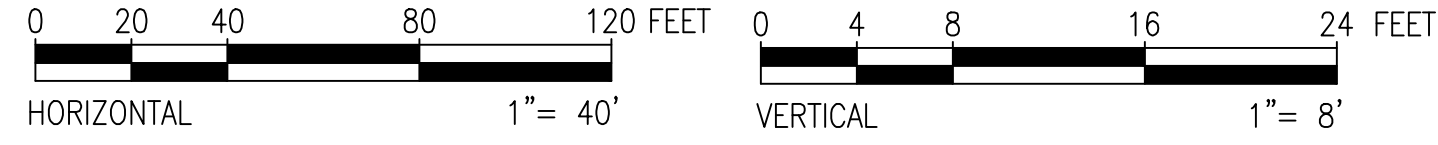
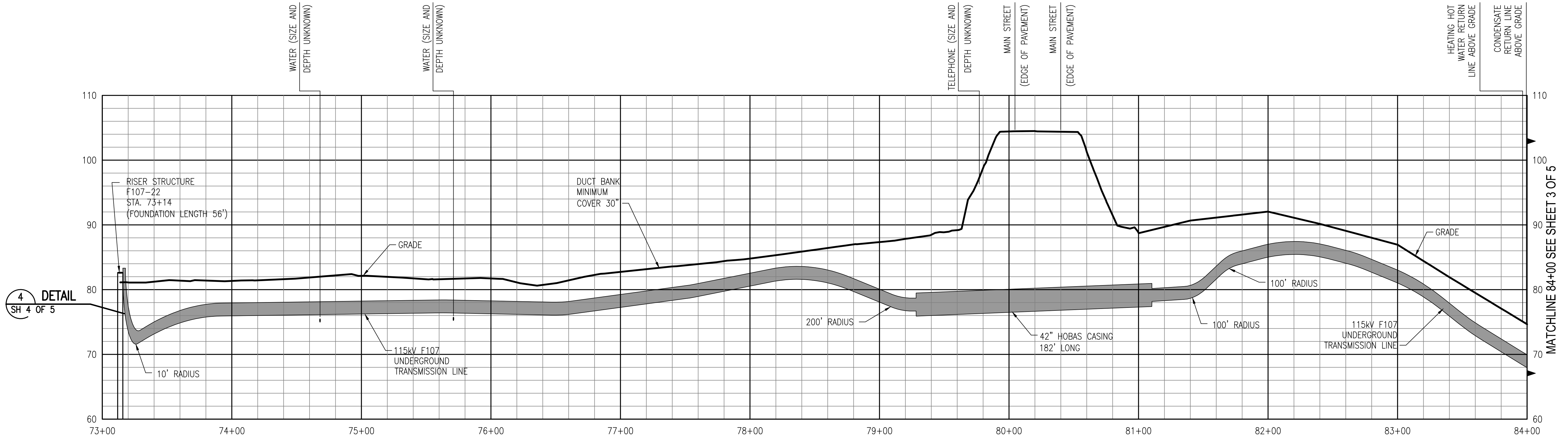
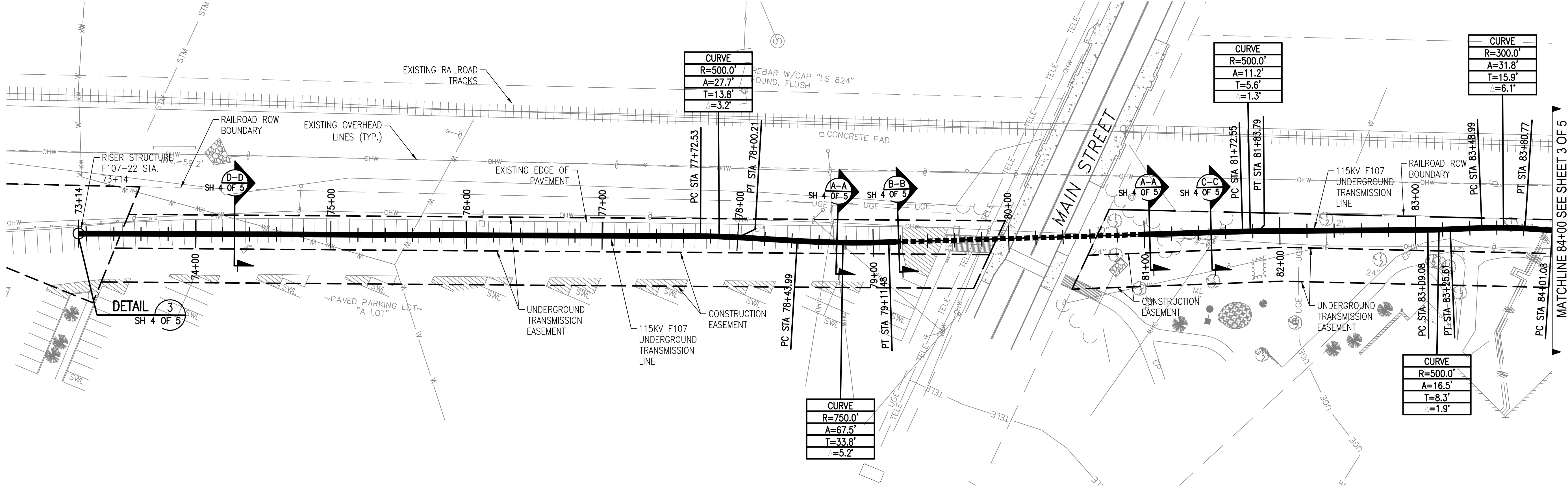
EVERSOURCE ENERGY

DES: REO CHK: TSG DRW: REO APR: TSG TOWN: DURHAM TRANSMISSION LINE: LINE MILE NO: 2 DISCIPLINE/SHIT NO.	T 2 UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE COVER DATE: 3/7/2019 SCALE: N.T.S.
--	---

SHEET 1 OF 5
F10743002

3/9/2020 11:38 AM - pmagcon - Z:\Projects\133007\DD\DWG\09 Final CADD Files\F10743002_REV 2.dwg - SH 2

ES VER. 11/2015



PRINT DRAWING TO SCALE ON 22"x34" SHEET

THREE BUSINESS DAYS BEFORE YOU DIG CALL
NEW HAMPSHIRE DIG SAFE SYSTEM, INC.
 TOLL FREE
 1-888-344-7233

**Know what's below.
 Call before you dig.**

NO.	REVISION	DATE	DRWN	CHKD	TSG	APP'Y
1	ISSUE FOR CONSTRUCTION 11/27/2017 EPN-4466	3-1-19	REO	TSG	TSG	
2	ISSUE FOR RECORD 11/27/2017 EPN-4466	2-28-20	PCM	REO	TSG	

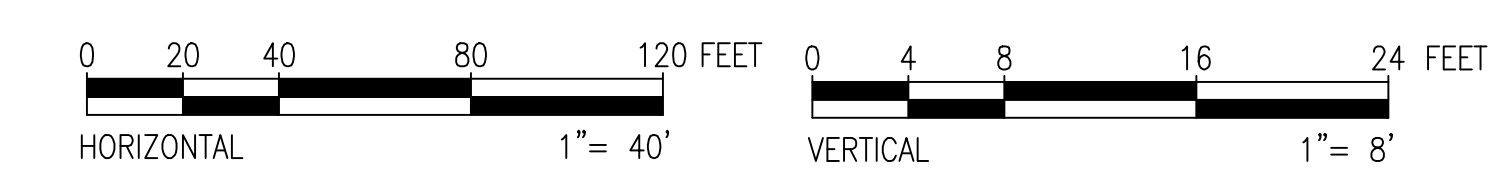
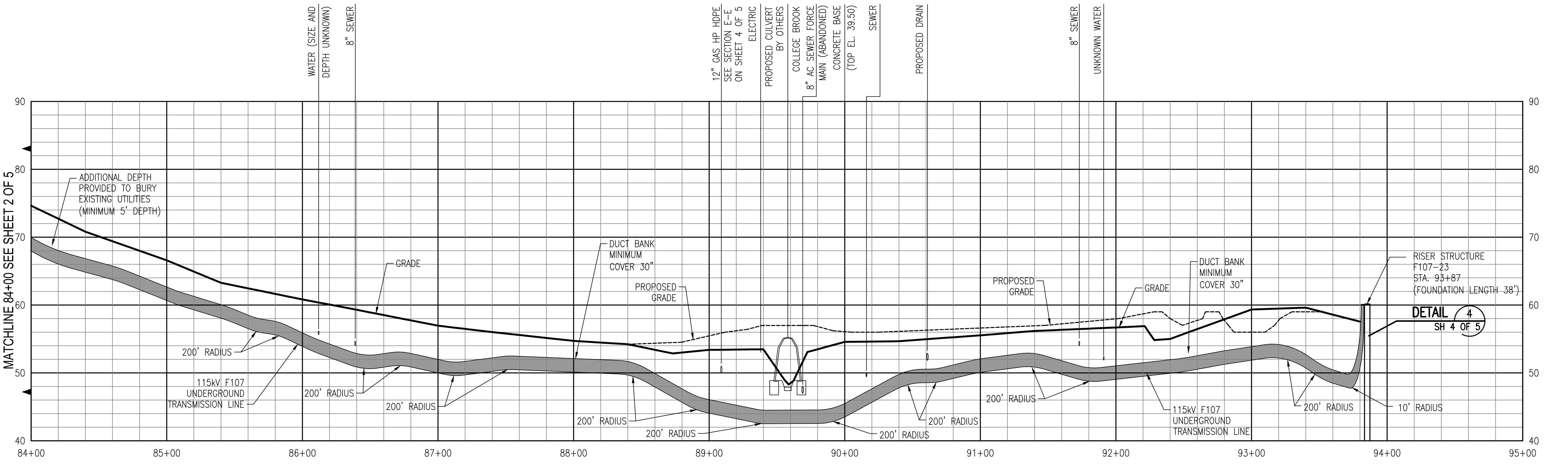
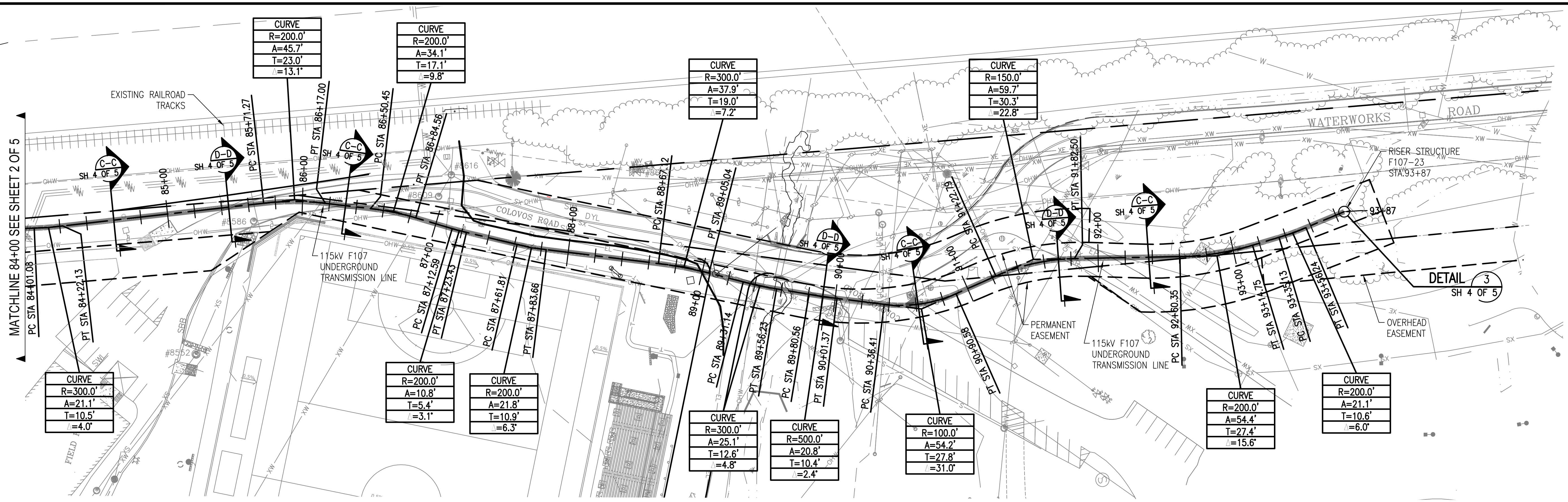
EVERSOURCE
ENERGY

CIRCUIT F107 115KV
 UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW

SCALE: H 1"=40' V 1"=8'

DATE: 3/7/2019

DES: REO	CHK: TSG
DRW: REO	APR: TSG
TOWN:	DURHAM
TRANSMISSION LINE:	LINE
DISCIPLINE/SHT NO.:	LINE
MILE NO.:	2
SHEET:	2 OF 5
PROJECT NO.:	F10743002



PRINT DRAWING TO SCALE ON 22"x34" SHEET

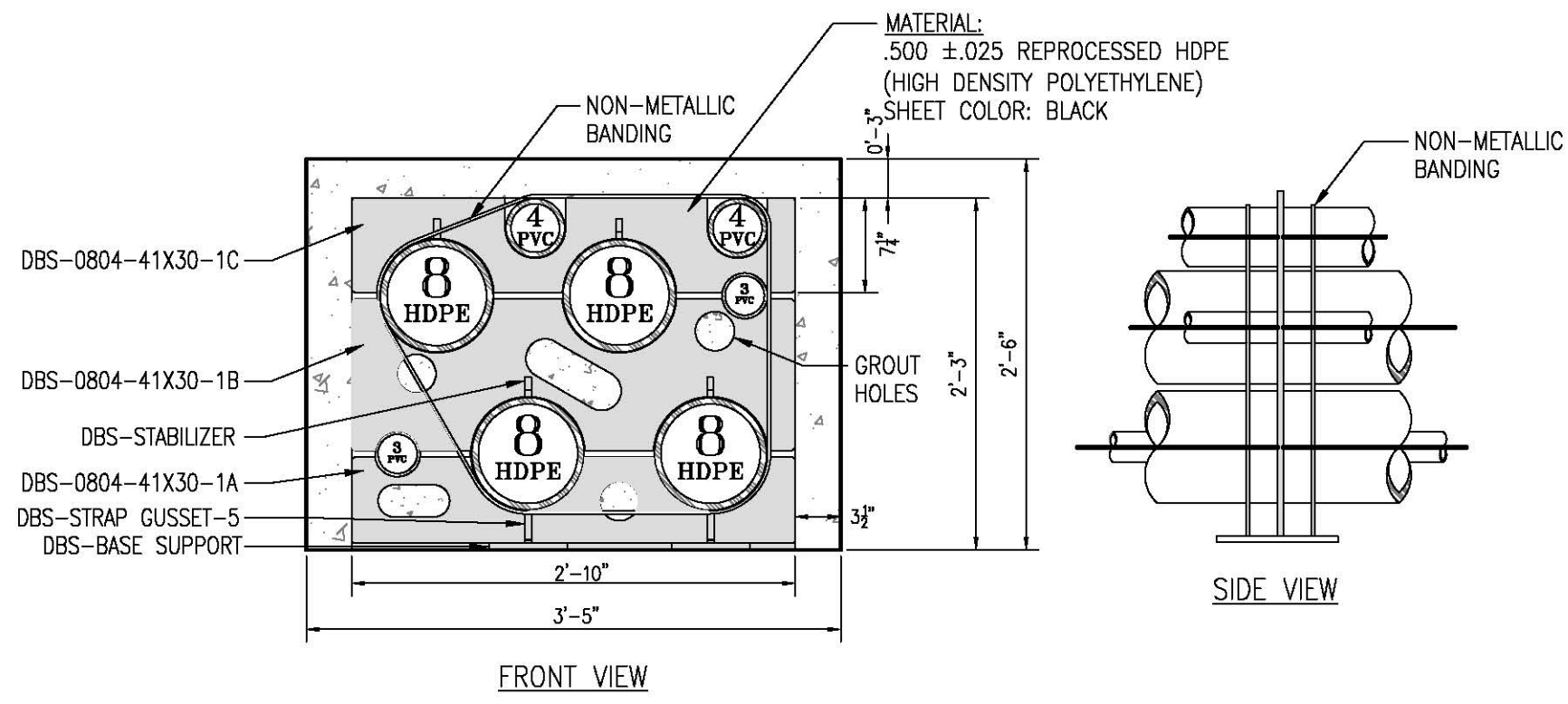
811
 Know what's below.
 Call before you dig.

THREE BUSINESS DAYS BEFORE YOU DIG CALL
 NEW HAMPSHIRE DIG SAFE SYSTEM, INC.
 TOLL FREE
 1-888-344-7233

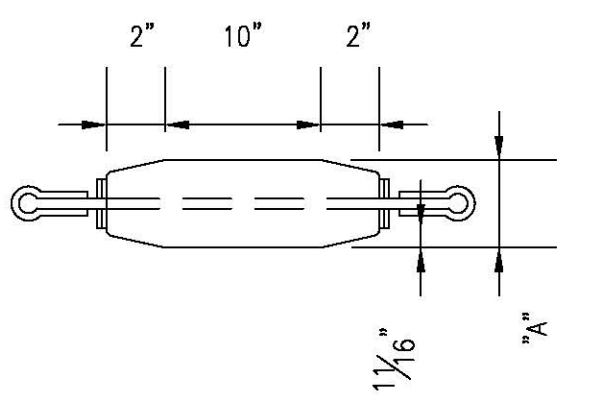
NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUE FOR CONSTRUCTION 11/27/2015 EPH-4468	11-19-15	TSG		
2	ISSUE FOR RECORD 11/27/2015 EPH-4468	11-19-15	PCM		

EVERSOURCE
 ENERGY

CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW	T 2
DATE: 3/1/2019	
SCALE: H: 1"=40', V: 1"=8'	
DES: REO CHK: TSG	
DRAW: REO APR: TSG	
TOWN: DURHAM	
TRANSMISSION LINE: LINE	
LINE NO: 2	
DISCIPLINE/SHT NO.	
SHEET 3 OF 5	
F10743002	



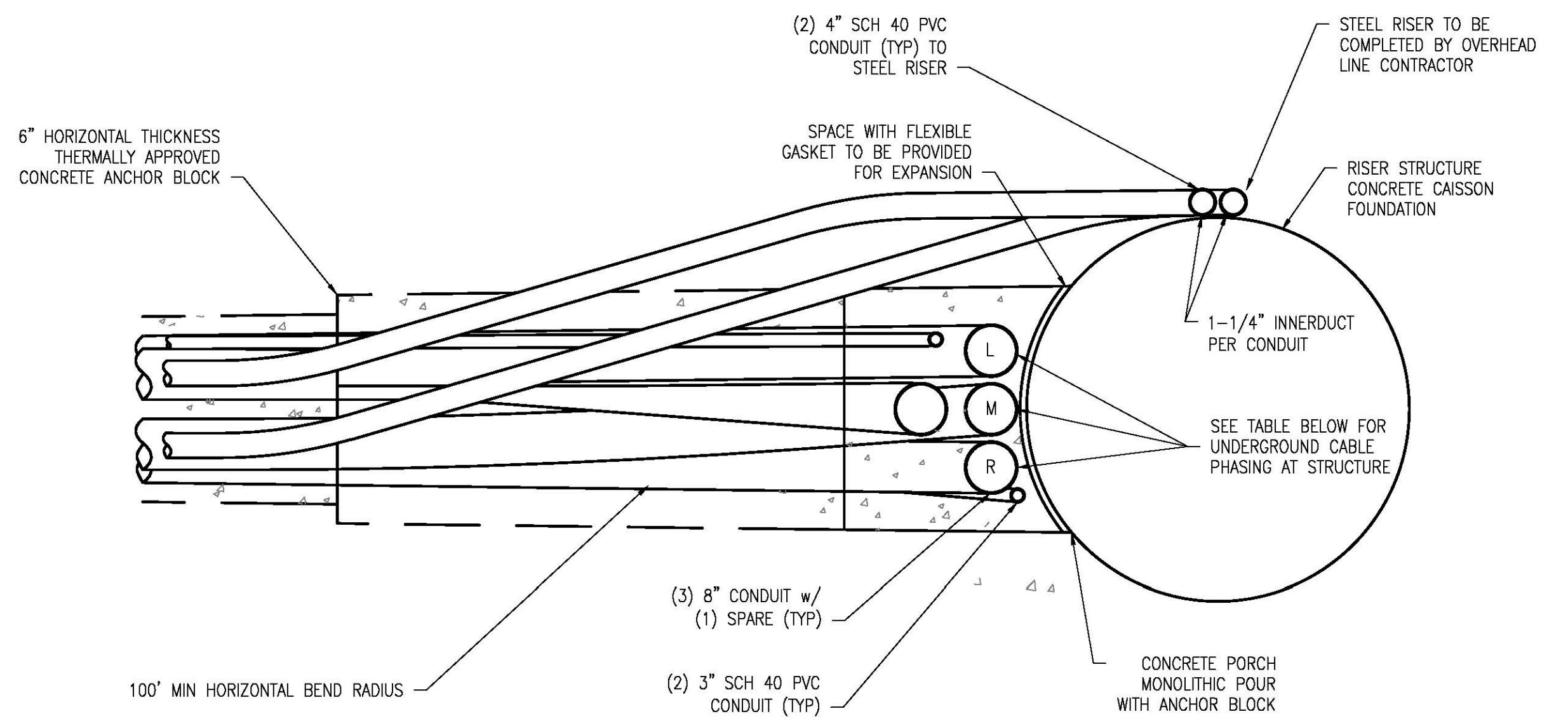
**ADVANCE PRODUCTS & SYSTEMS, LLC SPACER ARRANGEMENT
DETAIL**
SCALE: N.T.S. **1**
SH 4 OF 5



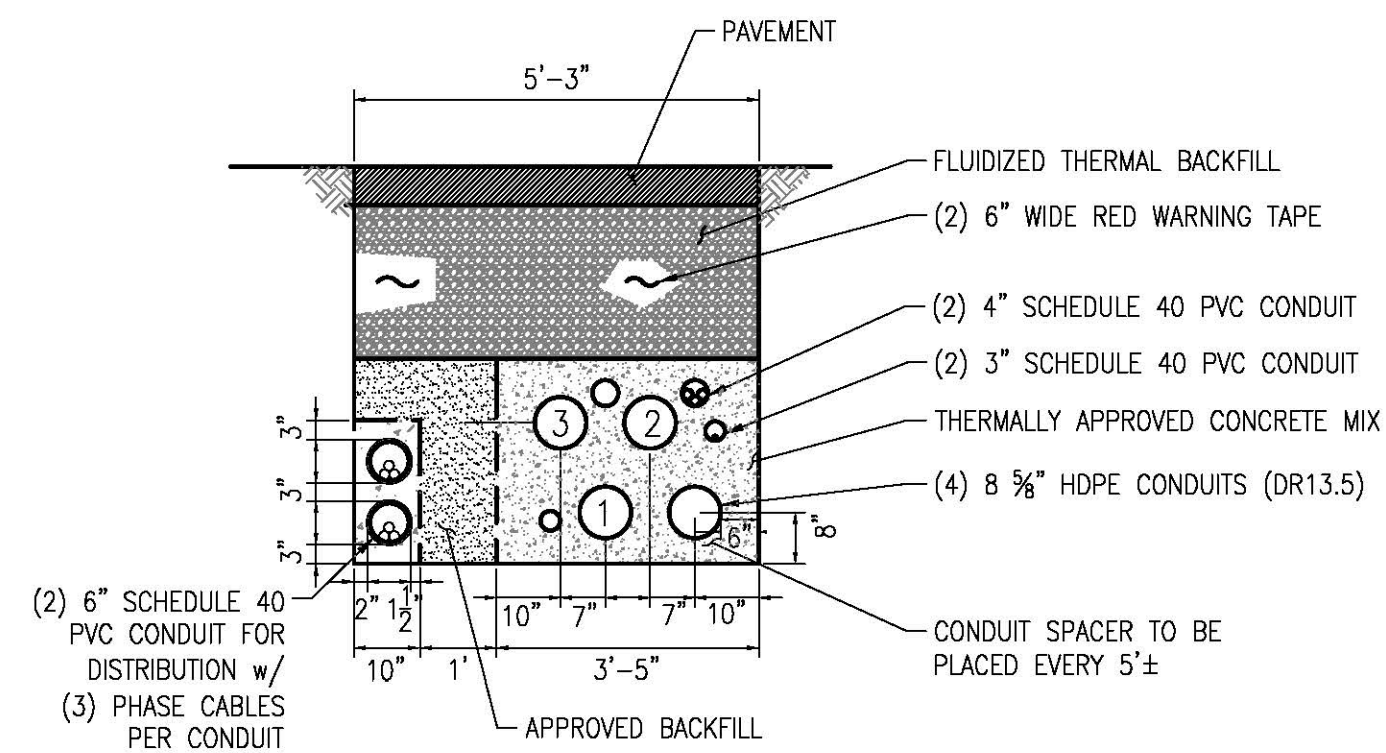
MANDREL DETAIL
SCALE: N.T.S. **2**
SH 4 OF 5

NOTES:

1. STAGGER BELL ENDS.
2. AVOID STANDING ON CONDUIT.
3. ALL TRENCH DETAILS AND PHASING SHOWN AS LOOKING AHEAD STATIONS.
4. ALL DUCT SPACERS ARE ADVANCE PRODUCTS & SYSTEMS, LLC.
5. SEPARATION SHOWN IS TYPICAL SPACING IN TRENCH EXCAVATION AREAS. SEE PLAN DETAILS FOR SEPARATION AT OTHER LOCATIONS.



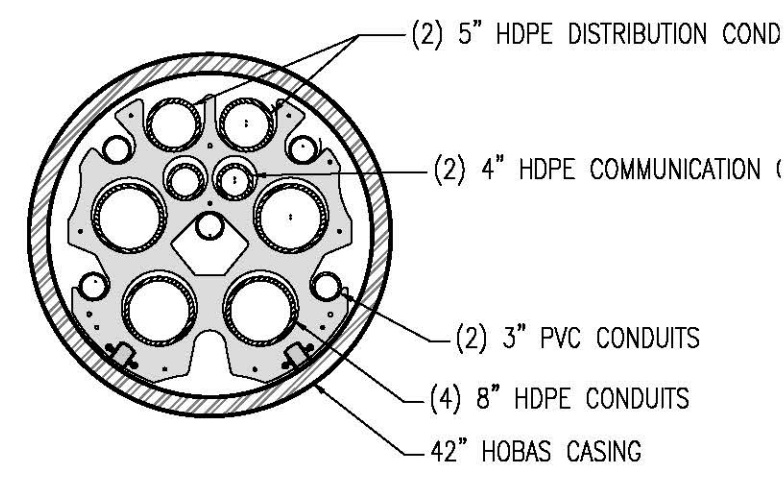
**TYP RISER SWEEP PLAN VIEW
DETAIL**
SCALE: N.T.S. **3**
SH 4 OF 5



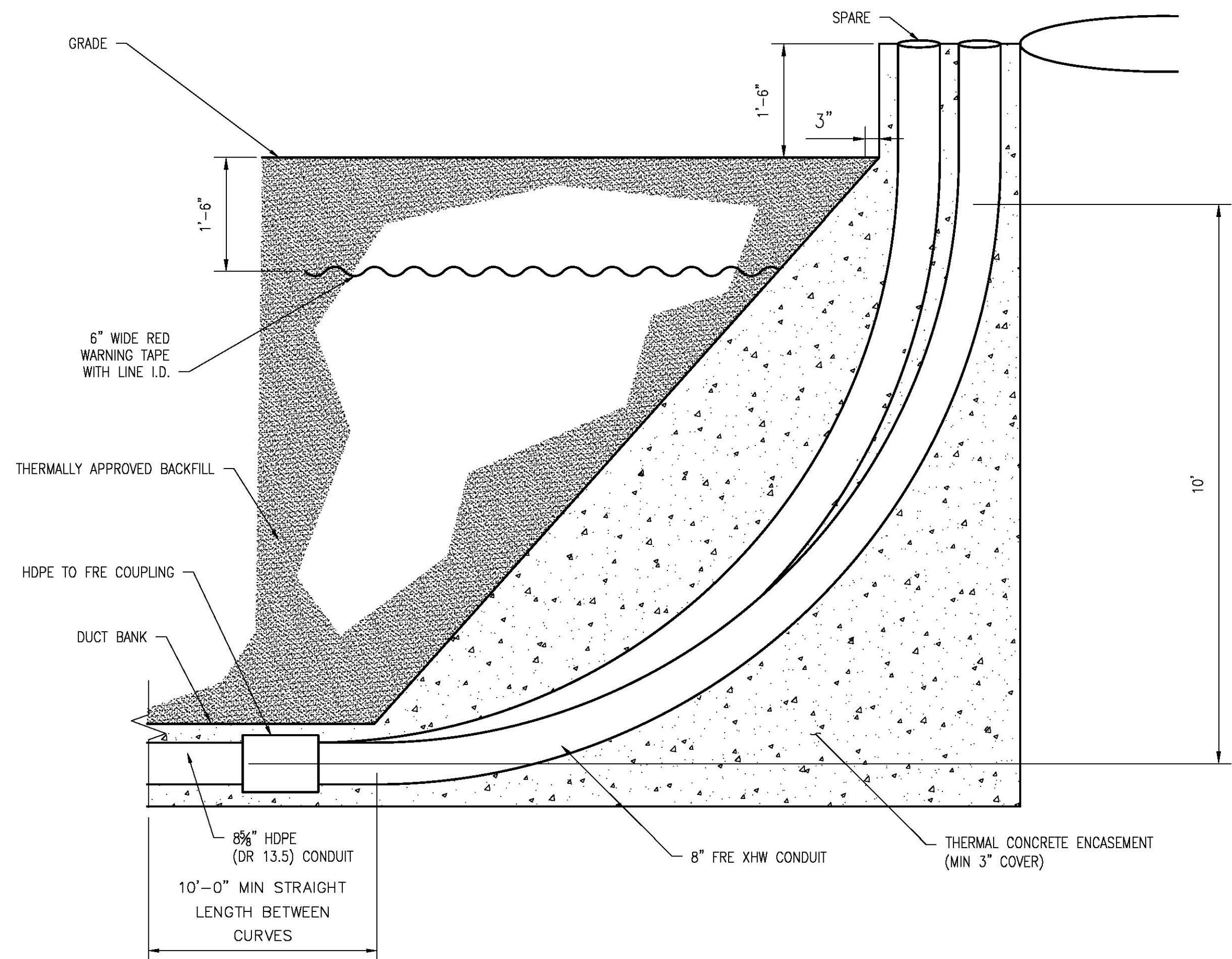
**TYPICAL DUCT BANK WITH DISTRIBUTION AT UNH CAMPUS
SECTION**
SCALE: N.T.S. **A-A**
SH 4 OF 5

NOTE:

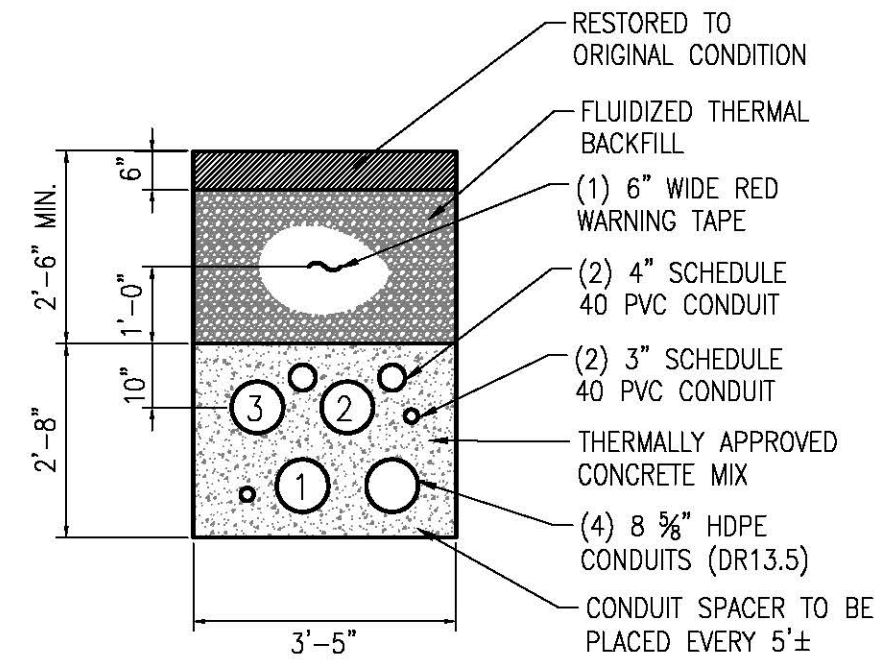
1. WHERE UNH DISTRIBUTION LINE DIVERGES FROM TRANSMISSION DUCT BANK MAINTAIN APPROVED BACKFILL AROUND DUCT PER UNH CONSTRUCTION STANDARDS.



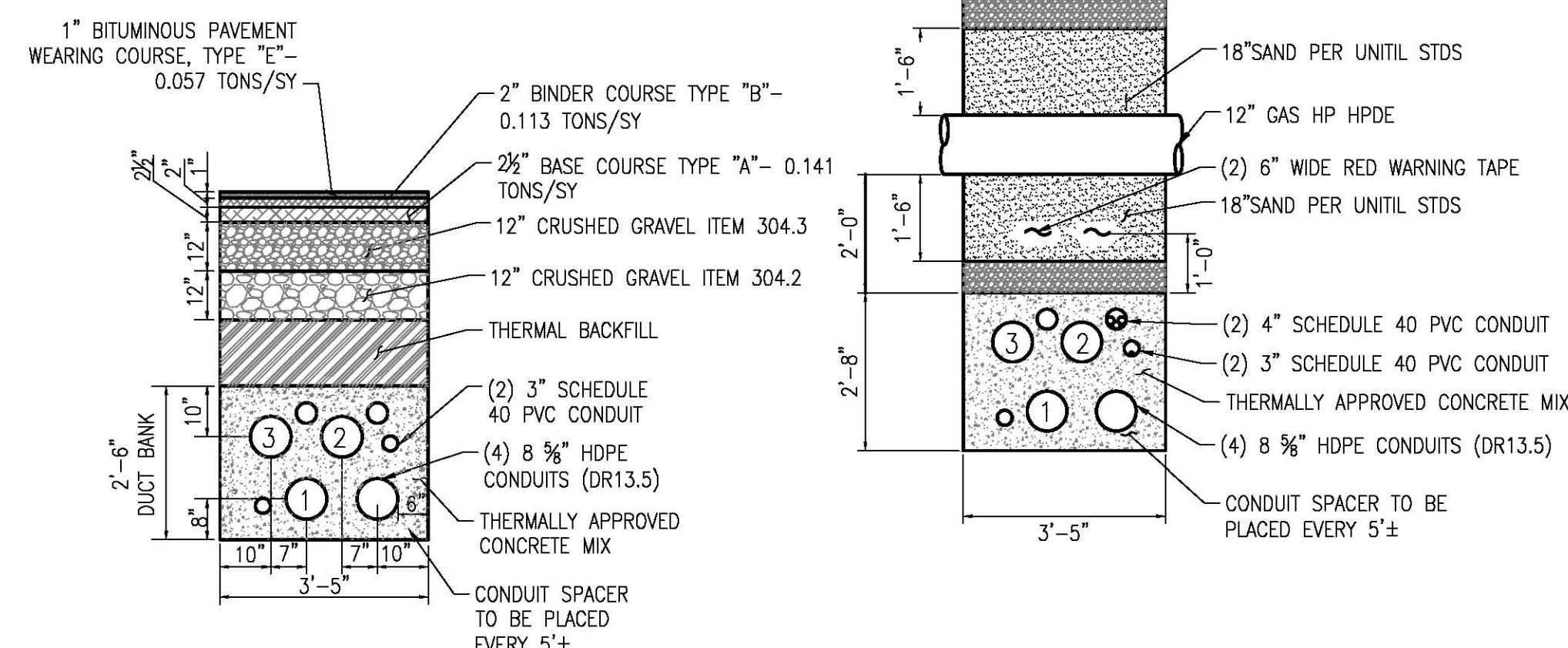
TYPICAL CASING SECTION
SCALE: N.T.S. **B-B**
SH 4 OF 5



TYP RISER SWEEP DETAIL
SCALE: N.T.S. **4**
SH 4 OF 5



TYP TRENCH DETAIL
SCALE: N.T.S. **C-C**
SH 4 OF 5



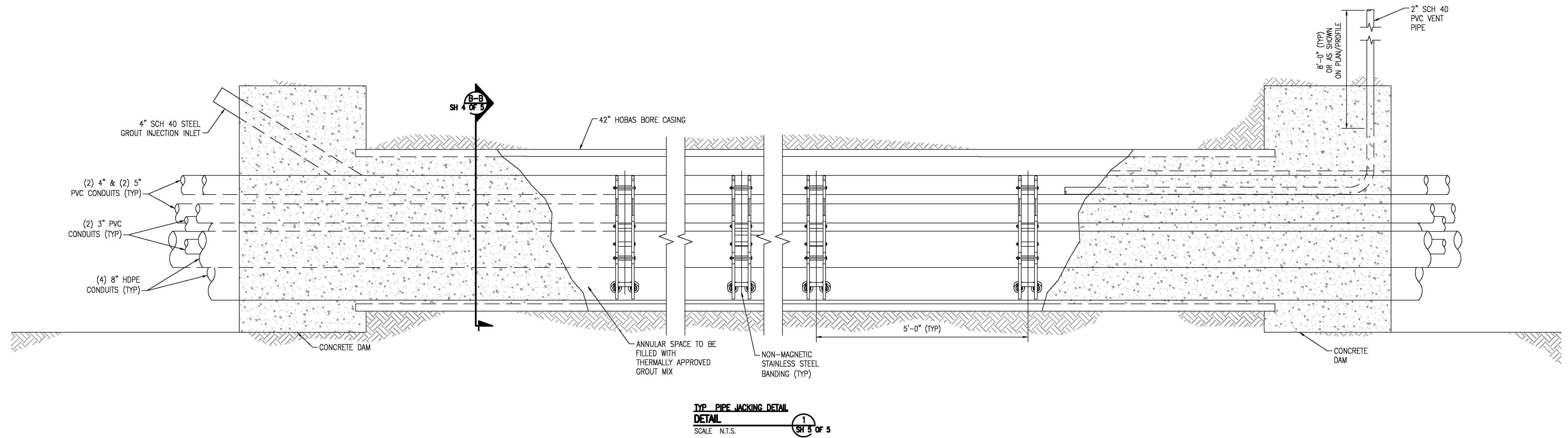
NON RESIDENTIAL ROAD CROSSING SECTION
SCALE: N.T.S. **D-D**
SH 4 OF 5

NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUE FOR CONSTRUCTION 11/27/01 EPN-4466	5-1-19	REG	TSG	
2	ISSUE FOR RECORD 11/27/01 EPN-4466	2-28-20	PCM	TSG	

EVERSOURCE ENERGY

T 2

CIRCUIT F107 115KV UNDERGROUND UNDERGROUND TRANSMISSION LINE MISCELLANEOUS DETAILS
DATE: 3/1/2018
SCALE: N.T.S.
TOWN: DURHAM
TRANSMISSION LINE: LINE
MILE NO: 2
DISCIPLINE/SHT NO.



TYP. PIPE JACKING DETAIL
DETAIL
 SCALE: N.T.S. 1 SH 5 OF 5

NO.	REVISION	DATE	DRWN	CHKD	ISS
2	ISSUE FOR RECORD 11/20/19	2-28-20	PCM	RED	TSS
1	ISSUE FOR CONSTRUCTION 11/20/19	5-1-19	RED	RED	TSS

EVERSOURCE
ENERGY

T	2
CIRCUIT F107 115KV UNDERGROUND UNDERGROUND TRANSMISSION LINE RISER AND PIPE JACKING DETAILS	
DES: RED CHM: TSS	
DRW: RED APR: TSS	
TOWN: DURHAM	
TRANSMISSION LINE: LINE	
MILE NO: 2	
DISCIPLINE/SHIT NO.	
SHEET 5 OF 5	
F10743002	

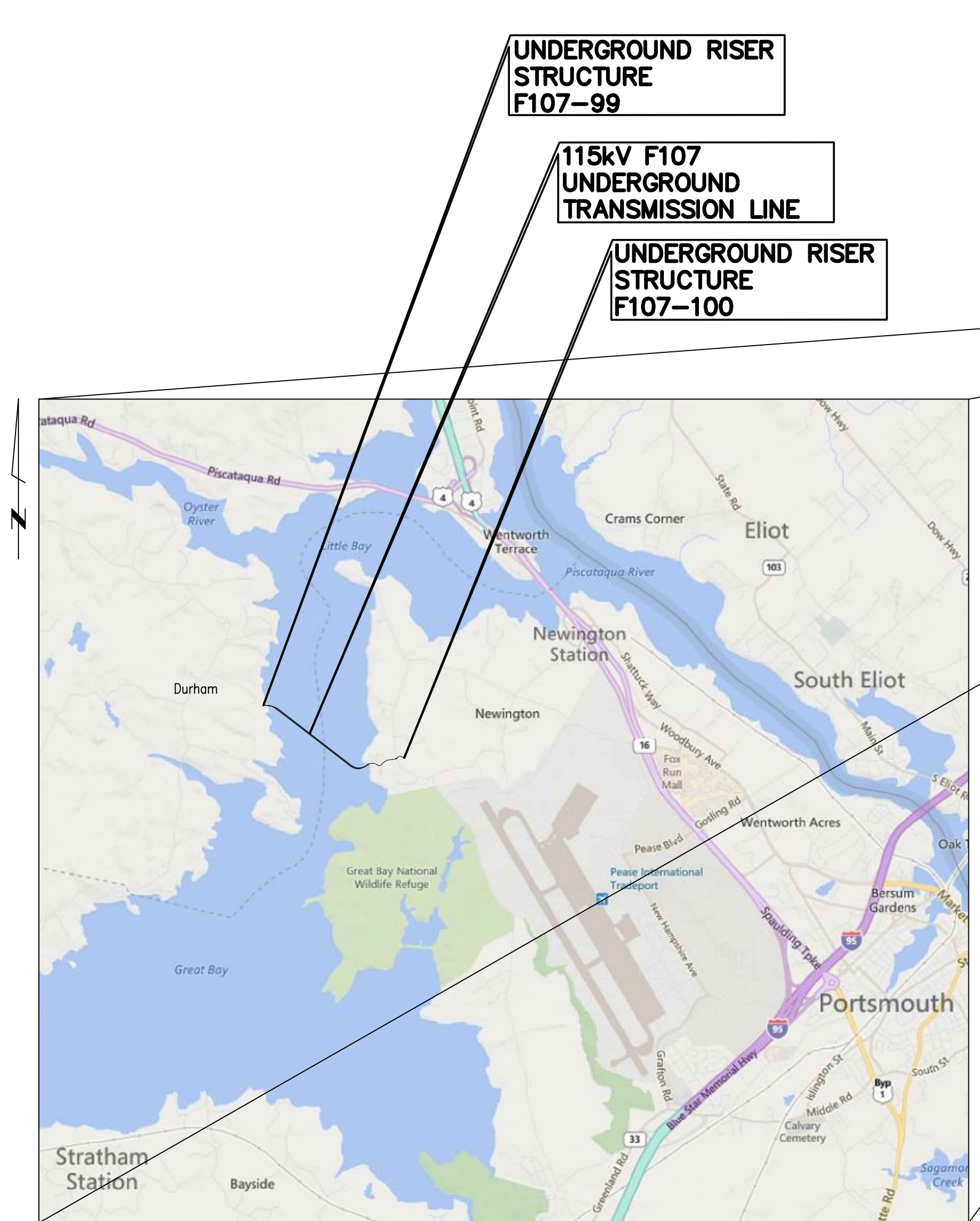
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE DBA EVERSOURCE ENERGY SEACOAST RELIABILITY PROJECT, CIRCUIT F107 LITTLE BAY CROSSING, NEWINGTON AND DURHAM 115kV UNDERGROUND TRANSMISSION LINE

ES VER. 11/2015

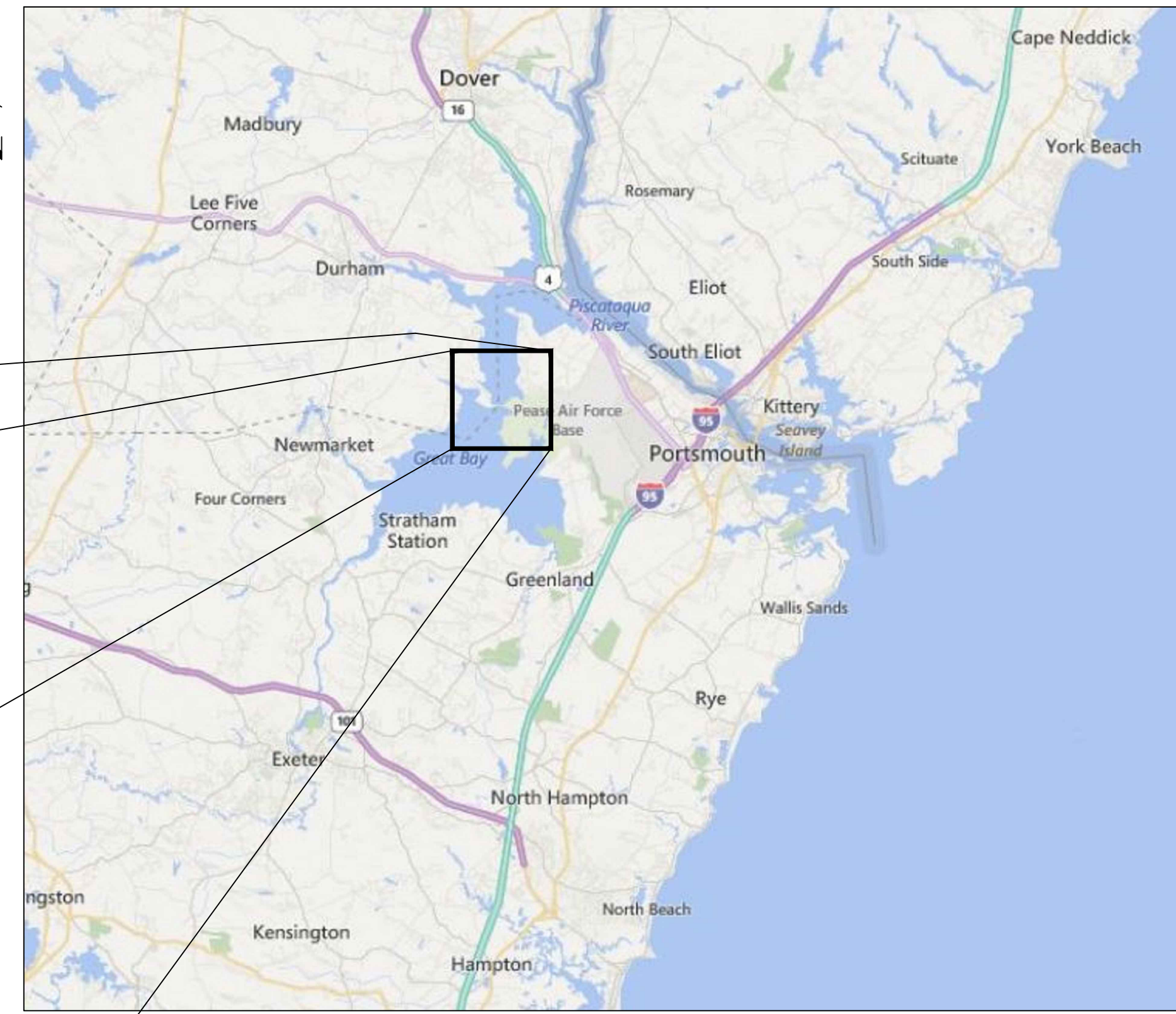
DRAWING MANIFEST	
DRAWING NO.	TITLE/DESCRIPTION
SHEET 1 OF 25	COVER SHEET, LEGEND, AND DRAWING MANIFEST
SHEET 2 OF 25	PHASE 1 PLAN AND PROFILE DRAWING STA. 393+00 TO STA. 403+00
SHEET 3 OF 25	PHASE 2 PLAN AND PROFILE DRAWING STA. 393+00 TO STA. 403+00
SHEET 4 OF 25	PHASE 3 PLAN AND PROFILE DRAWING STA. 393+00 TO STA. 403+00
SHEET 5 OF 25	PHASE 1 PLAN AND PROFILE DRAWING STA. 403+00 TO STA. 413+00
SHEET 6 OF 25	PHASE 2 PLAN AND PROFILE DRAWING STA. 403+00 TO STA. 413+00
SHEET 7 OF 25	PHASE 3 PLAN AND PROFILE DRAWING STA. 403+00 TO STA. 413+00
SHEET 8 OF 25	PHASE 1 PLAN AND PROFILE DRAWING STA. 413+00 TO STA. 423+00
SHEET 9 OF 25	PHASE 2 PLAN AND PROFILE DRAWING STA. 413+00 TO STA. 423+00
SHEET 10 OF 25	PHASE 3 PLAN AND PROFILE DRAWING STA. 413+00 TO STA. 423+00
SHEET 11 OF 25	PHASE 1 PLAN AND PROFILE DRAWING STA. 423+00 TO STA. 433+00
SHEET 12 OF 25	PHASE 2 PLAN AND PROFILE DRAWING STA. 423+00 TO STA. 433+00
SHEET 13 OF 25	PHASE 3 PLAN AND PROFILE DRAWING STA. 423+00 TO STA. 433+00
SHEET 14 OF 25	PHASE 1 PLAN AND PROFILE DRAWING STA. 433+00 TO STA. 443+00
SHEET 15 OF 25	PHASE 2 PLAN AND PROFILE DRAWING STA. 433+00 TO STA. 443+00
SHEET 16 OF 25	PHASE 3 PLAN AND PROFILE DRAWING STA. 433+00 TO STA. 443+00
SHEET 17 OF 25	PHASE 1 PLAN AND PROFILE DRAWING STA. 443+00 TO STA. 453+00
SHEET 18 OF 25	PHASE 2 PLAN AND PROFILE DRAWING STA. 443+00 TO STA. 453+00
SHEET 19 OF 25	PHASE 3 PLAN AND PROFILE DRAWING STA. 443+00 TO STA. 453+00
SHEET 20 OF 25	PLAN AND PROFILE DRAWING STA. 453+00 TO STA. 463+00
SHEET 21 OF 25	PLAN AND PROFILE DRAWING STA. 463+00 TO STA. 470+00
SHEET 22 OF 25	TRENCH AND JET PLOW DETAILS
SHEET 23 OF 25	SPLICE VAULT DETAILS
SHEET 24 OF 25	SPLICE VAULT DETAILS
SHEET 25 OF 25	SPLICE VAULT MISCELLANEOUS DETAILS

LEGEND

- | | |
|--|--------------------------|
| | ELECTRICAL STRUCTURE |
| | LAMP POST |
| | WOODEN POST |
| | IRRIGATION CONTROL VALVE |
| | ELECTRIC BOX |
| | TELECOMMUNICATION BOX |
| | UTILITY BOX |
| | CATCH BASIN |
| | CONIFEROUS TREE |
| | DECIDUOUS TREE |
| | CONCRETE |
| | RIP RAP |
| | LANDSCAPED AREA |
| | CRUSHED STONE |
| | SURFACE LEDGE |
| | TYPICAL |
| | RETAINING |
| | EDGE OF PAVEMENT |
| | CONC. |
| | TREE LINE |
| | SHRUB LINE |
| | PROPERTY LINES |
| | DRAIN LINE |
| | OVERHEAD ELECTRIC |
| | UNDERGROUND ELECTRIC |
| | WATER LINE |
| | TELEPHONE LINE |
| | SEWER |
| | STEAM LINE |
| | PROPOSED DRAIN |
| | EASEMENT |
| | STONE WALL |



VICINITY MAP
NOT TO SCALE



AREA MAP
NOT TO SCALE

General Notes

- THE PLANIMETRICS, UTILITIES AND NATURAL FEATURES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. EXISTING CONDITIONS BY SURVEY BY DUCET. OTHER FACILITIES MAY NOT BE DISCOVERED THROUGH THE RECORD CHECK AND OTHER UTILITY LOCATING ACTIVITIES. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG, 811 OR 1-800-344-7233.
- LOCATIONS OF UTILITIES SHOWN BASED ON AS-BUILT SURVEY PROVIDED BY MCCOURT CONSTRUCTION AND DUROCHER MARINE.
- VERTICAL DATUM IS BASED ON NAVD83, HORIZONTAL DATUM IS BASED ON NEW HAMPSHIRE STATE PLANE IN US FEET, NAD83
- VERTICAL LOCATION OF SUBSURFACE UTILITY LINES ARE BASED ON ASSUMED DEPTHS USING BEST AVAILABLE INFORMATION AND MAY VARY FROM THE ACTUAL VERTICAL LOCATIONS. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
- DETAIL DESIGN MAY BE OPTIMIZED TO REFLECT ACTUAL CONDITIONS WITH OWNER REVIEW AND ACCEPTANCE.
- ALL WORK SHALL BE PERFORMED WITHIN THE DESIGNATED PROPERTIES AS NOTED ON THE DRAWINGS.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AS DETERMINED BY OWNER AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, AND THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
- CIVIL CONTRACTOR SHALL HAUL AWAY ALL UNUSED EXCAVATED MATERIAL TO PERMITTED SOIL DISPOSAL SITE PROJECT SPECIFICATIONS, AND THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
- CIVIL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY & ALL UTILITIES AND FACILITIES (INCLUDING THOSE NOT SHOWN ON THE DRAWINGS) DAMAGED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, APPLICABLE UTILITY SPECIFICATION, FEDERAL, STATE AND LOCAL REQUIREMENTS.
- ABANDONED UTILITIES SHALL BE CUT AND CAPPED AS NECESSARY WITH UTILITY OWNER REVIEW AND ACCEPTANCE. ABANDONED GAS LINES SHALL NOT BE CUT.
- CIVIL CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING BEST MANAGEMENT PRACTICES FOR CONTROLLING EROSION AND SEDIMENTATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
- CIVIL CONTRACTOR SHALL RESTORE GRADE TO PRE-CONSTRUCTION ELEVATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- PROPOSED DUCT BANK SHALL MAINTAIN A MINIMUM CLEARANCE OF 2'-6" BETWEEN THE CONCRETE ENCASUREMENT AND GRADE, OR AS SHOWN ON THE DRAWINGS.
- ALL VERTICAL RADII ARE 500' AND ALL HORIZONTAL RADII ARE 500' UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- PROPOSED DUCT BANK SHALL MAINTAIN MINIMUM HORIZONTAL CLEARANCE OF 24" PER UTRM 077 AND A MINIMUM VERTICAL CLEARANCE OF 24" PER UTRM 077 TO EXISTING UTILITIES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY OWNER OF ALL UNDOCUMENTED UTILITIES DISCOVERED DURING CONSTRUCTION THAT IMPEDE ON THE REQUIRED CLEARANCES TO THE PROPOSED DUCT BANK.
- PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. CONTRACTOR IS RESPONSIBLE FOR ENSURING PRINTED COPIES ARE THE LATEST REVISION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND APPLICABLE EVERSOURCE UTRM REQUIREMENTS.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH MEMORANDUM OF UNDERSTANDINGS BETWEEN EVERSOURCE AND TOWN OF DURHAM AND NEWINGTON.
- SEE DRAWINGS F10743001 AND F10705026 FOR CONNECTION DETAILS BETWEEN THE OVERHEAD AND UNDERGROUND LINES. SEE DRAWING F10713401 FOR PHASING OF F107 LINE.
- SEE ENVIRONMENTAL CONSTRUCTION MAPS AND DETAILS FOR ENVIRONMENTAL CONTROL AND ACCESS.
- ALL CONSTRUCTION SHOULD BE IN ACCORDANCE WITH NH EVALUATION COMMITTEE REQUIREMENTS AND CONDITIONS.

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PSNH (PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE) DESIGN ENGINEER: JOSEPH SPERRY	PSNH (PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE) WORK ORDER NUMBER: T1276A1 EPN-8466
POWER ENGINEERS PROJECT ENGINEER: TODD GOYETTE	POWER ENGINEERS PROJECT NUMBER: 133007

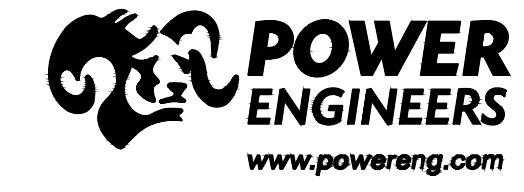
PRINT DRAWING TO SCALE ON 22"x34" SHEET

NO.	REVISION	DATE	BY	CHKD	APPRV.
1	ISSUE FOR CONSTRUCTION	04-11-19
2	REVISED DRAWING	05-23-19
3	REVISED DRAWING	05-23-19
4	ISSUE FOR RECORD	08-11-20

EVERSOURCE ENERGY

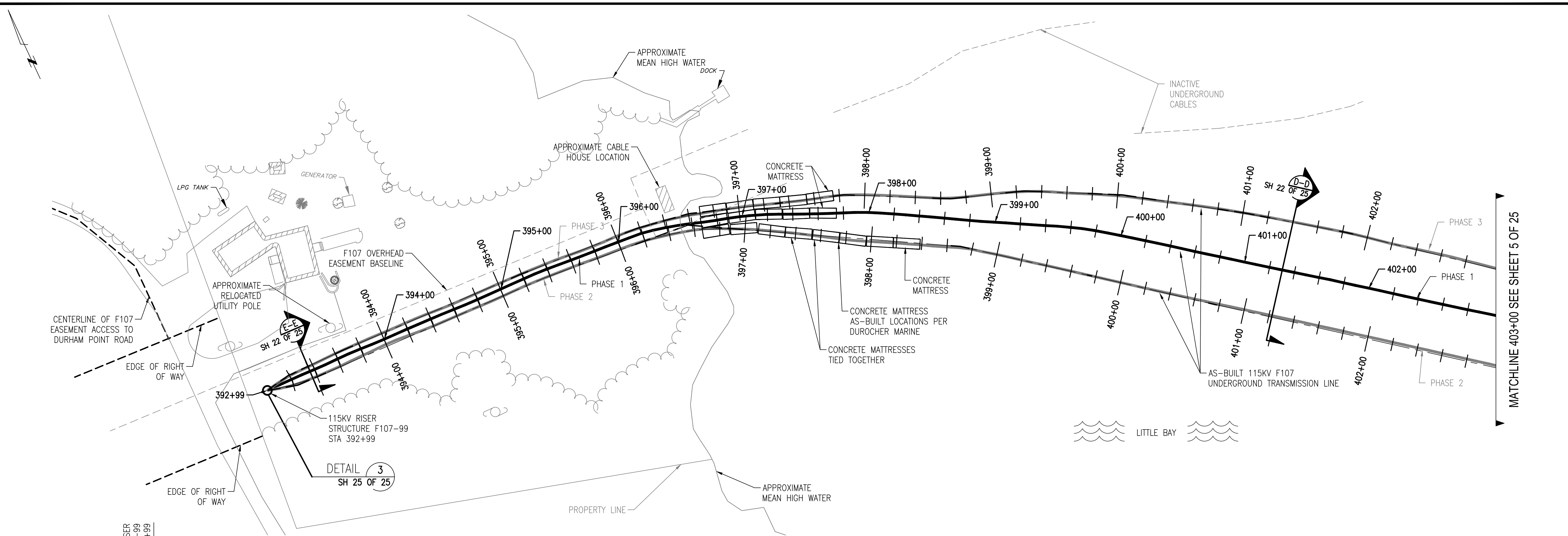
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DATE: 7/2019
 SCALE: N.T.S.
 TRANSMISSION LINE:
 DURHAM & NEWINGTON
LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO.
 SHEET 1 OF 25
F10743003

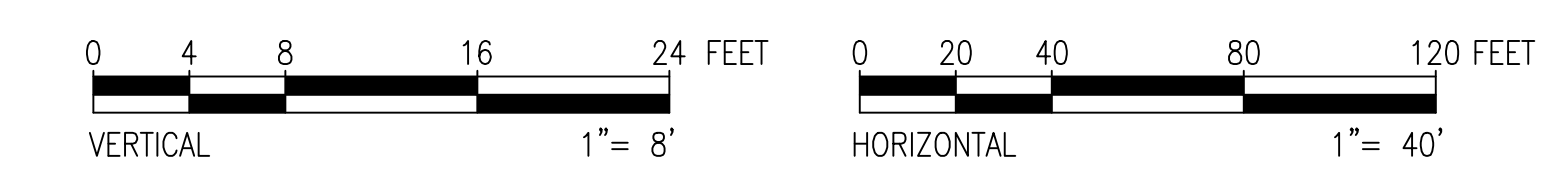
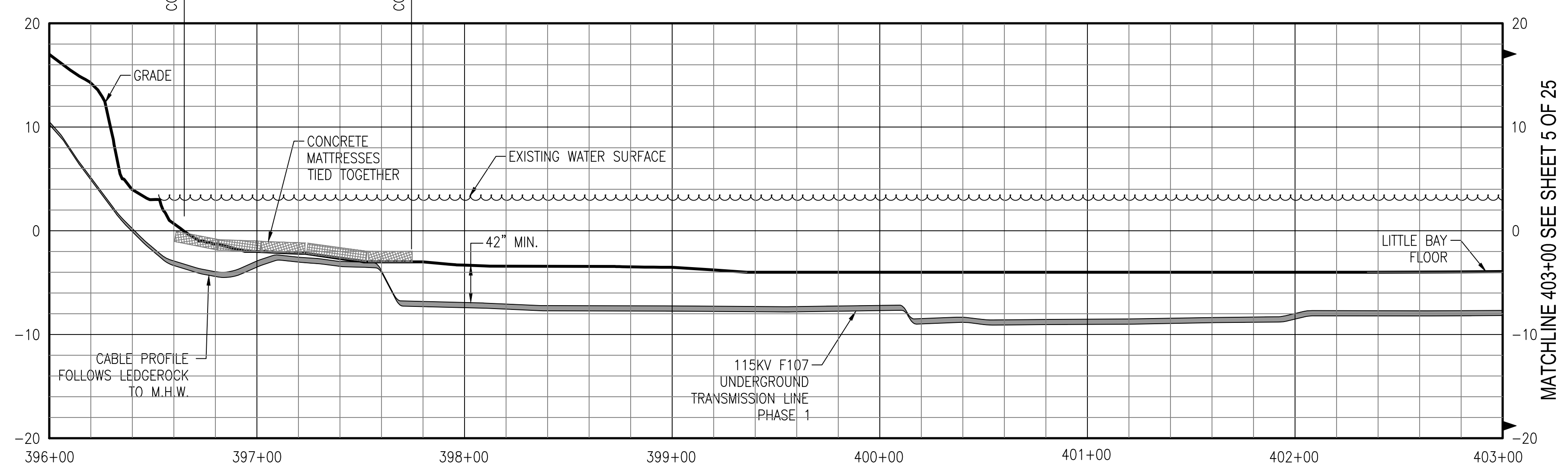
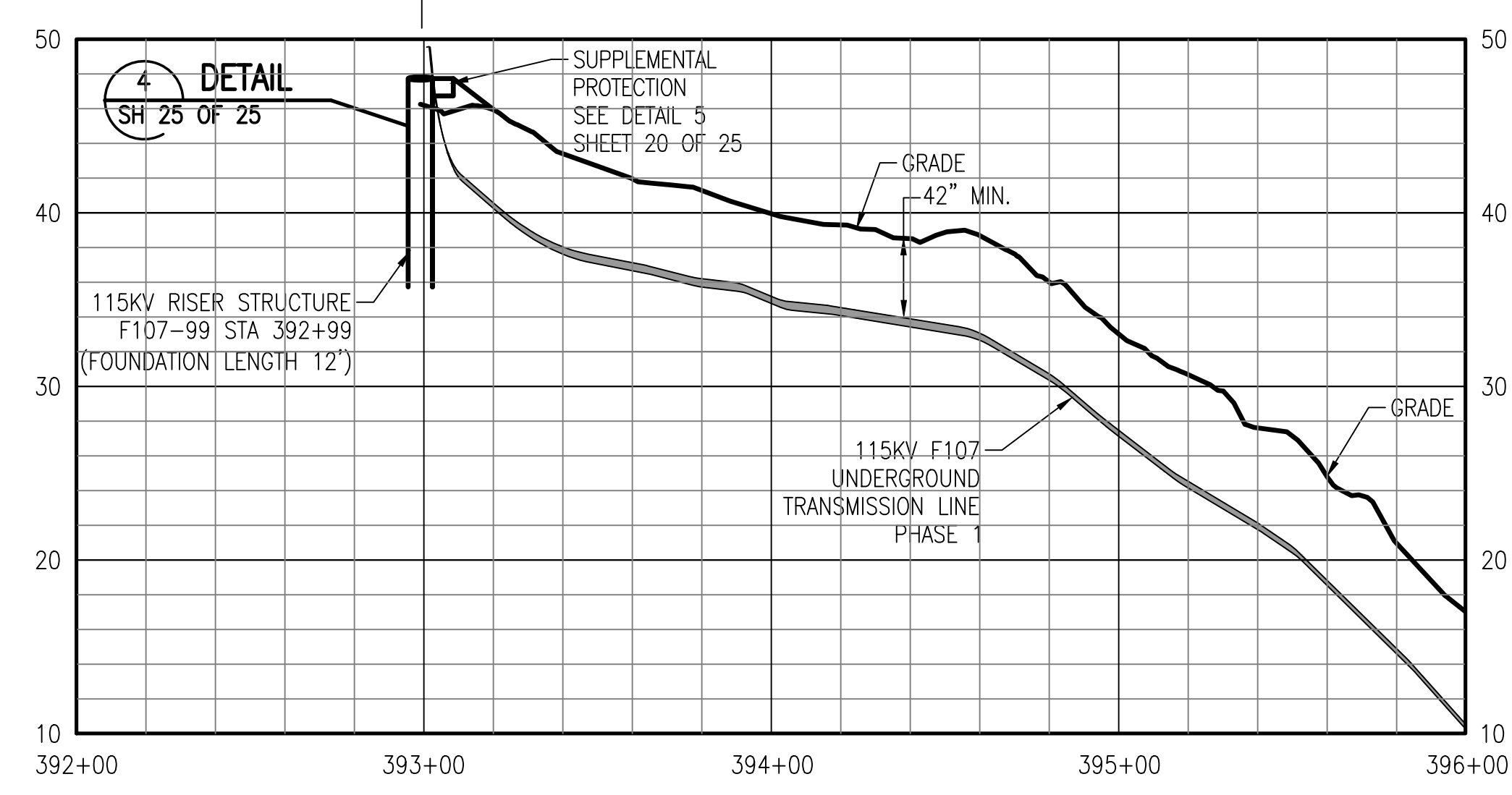


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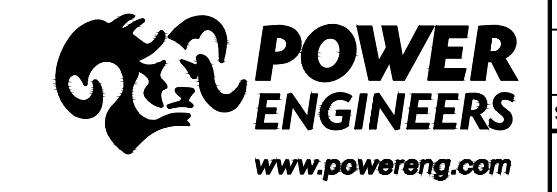
MATCHLINE 403+00 SEE SHEET 5 OF 25



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NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUE FOR CONSTRUCTION	04/11/19	TSJ	TSJ	TSJ
2	REVISED TRANSMISSION LINE ALIGNMENT	02/23/19	TSJ	TSJ	TSJ
3	REVISED TRANSMISSION LINE ALIGNMENT	02/23/19	TSJ	TSJ	TSJ
4	ISSUE FOR RECORD	06/11/20	PCW	TSJ	TSJ

EVERSOURCE ENERGY

CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW
DATE: 3/7/2019
SCALE: H: 1"=40', V: 1"=8'

T 4

DES: REO
CHK: TSG
DRW: REO
APR: TSG

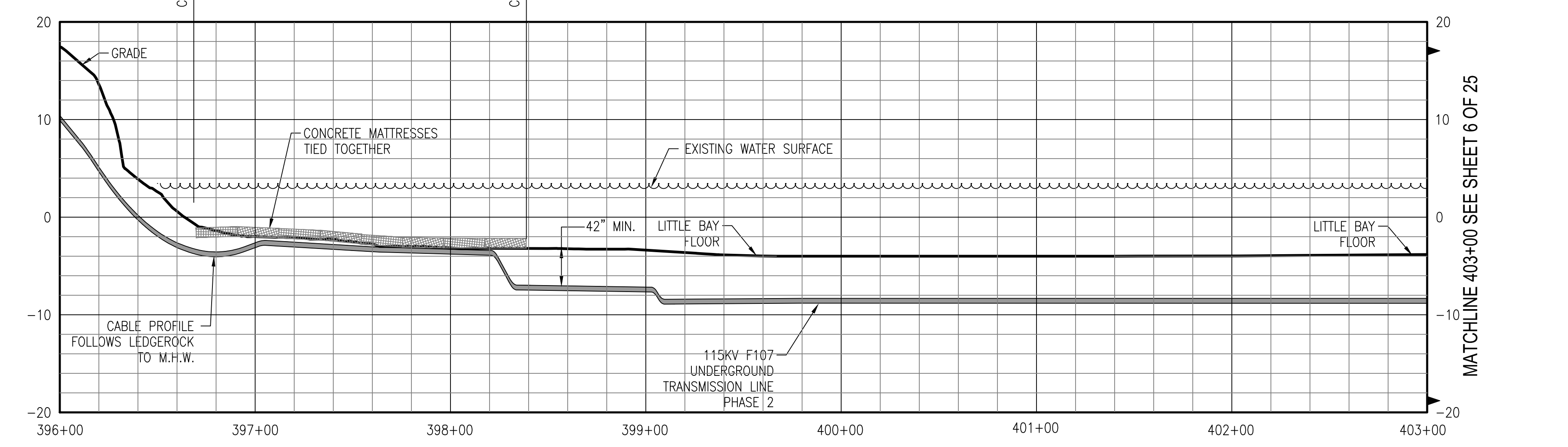
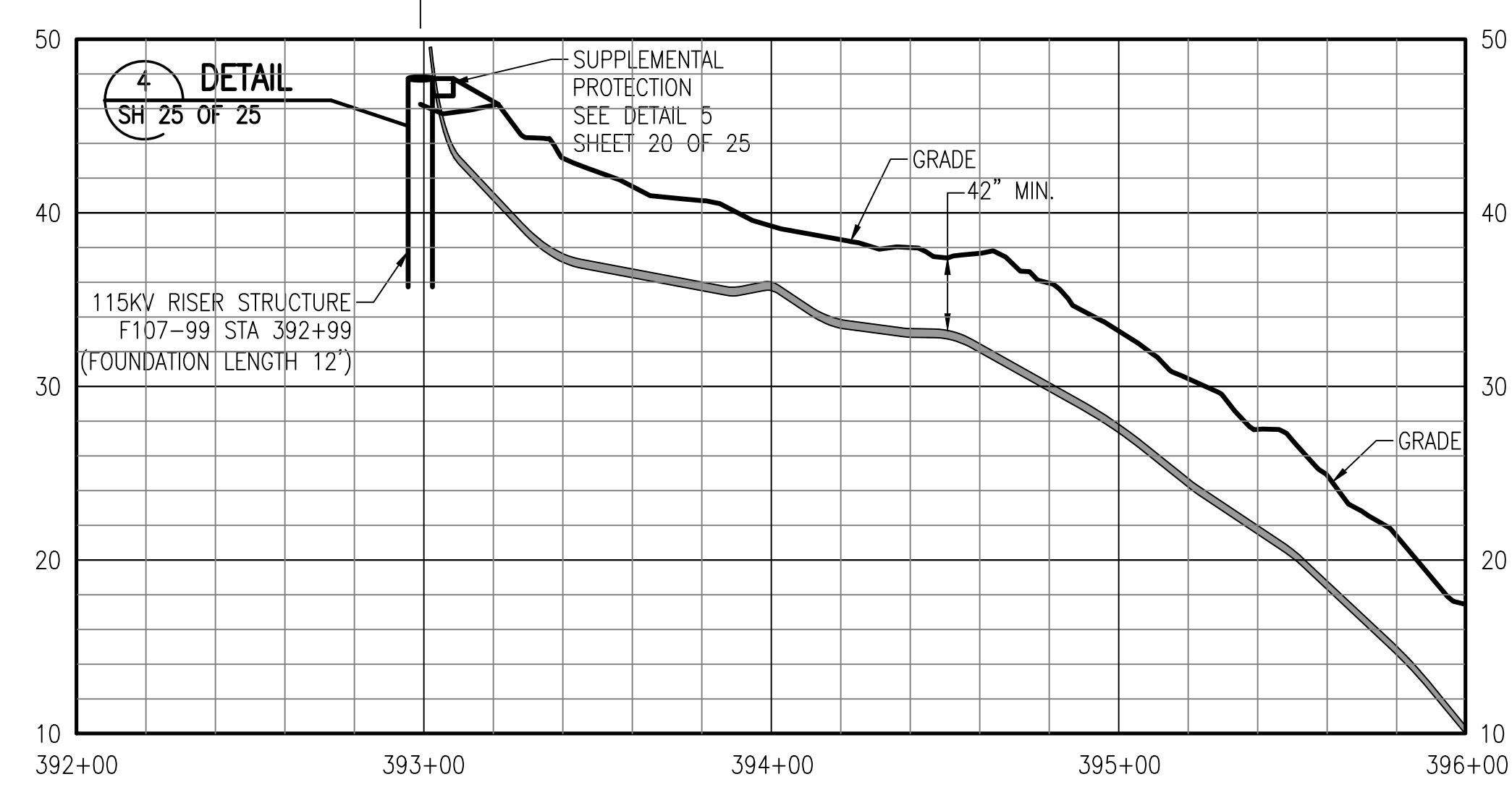
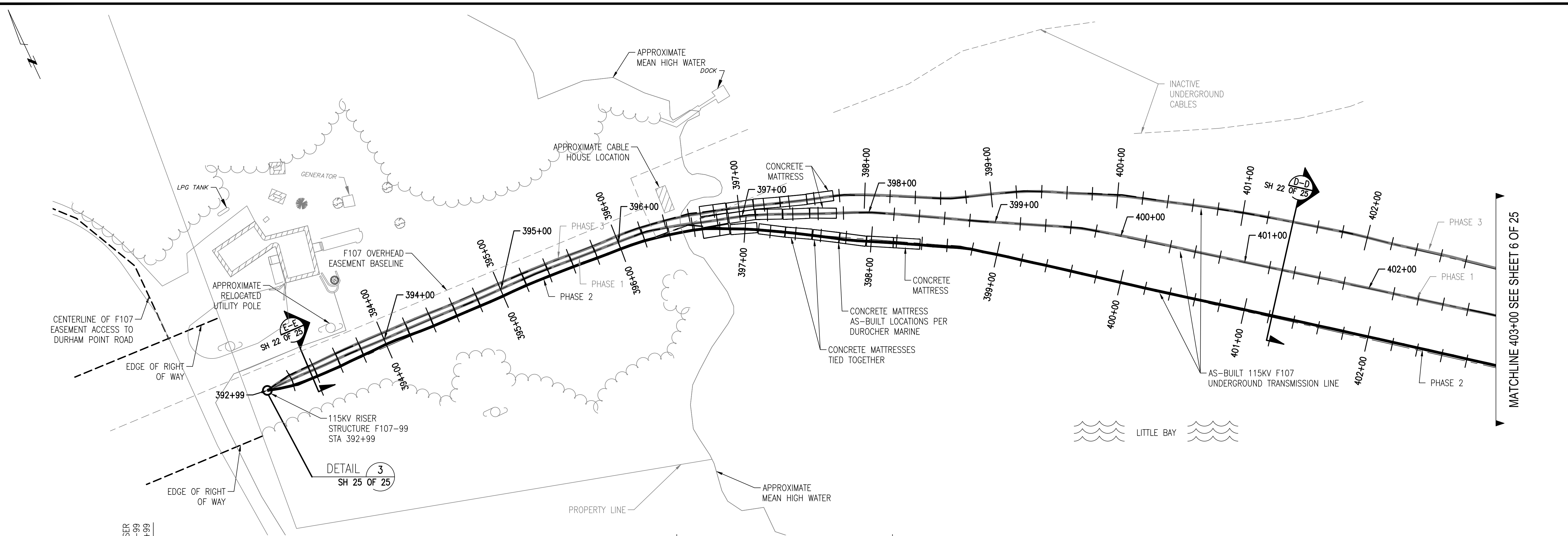
TOWN: DURHAM

TRANSMISSION LINE: LINE

DISCIPLINE/SHT NO. 8 & 9

SHEET 2 OF 25
F10743003

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MATCHLINE 403+00 SEE SHEET 6 OF 25

MATCHLINE 403+00 SEE SHEET 6 OF 25

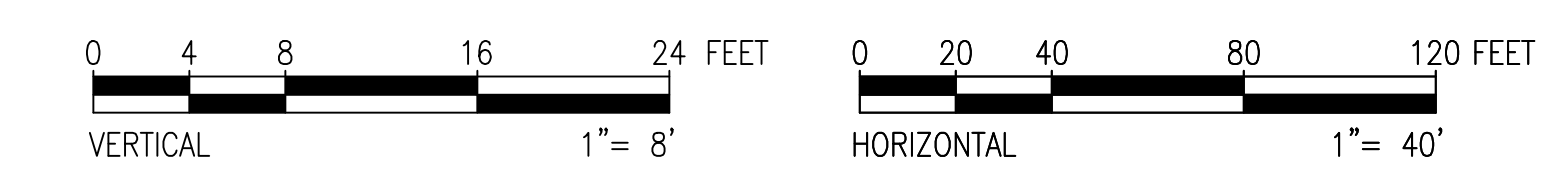
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2	REVISED PER OWNER COMMENTS	05/23/19	TSJ	TSJ	TSJ
3	REVISED PER OWNER COMMENTS	06/11/19	TSJ	TSJ	TSJ
4	ISSUE FOR RECORD	06/11/19	PCW	TSJ	TSJ

EVERSOURCE
ENERGY

CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW
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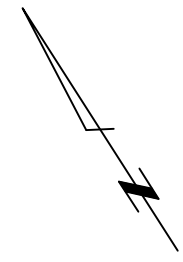
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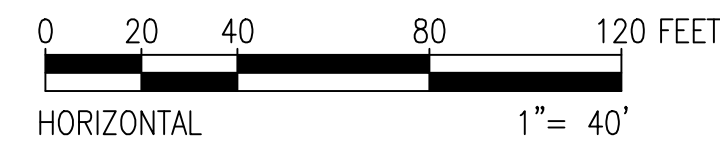
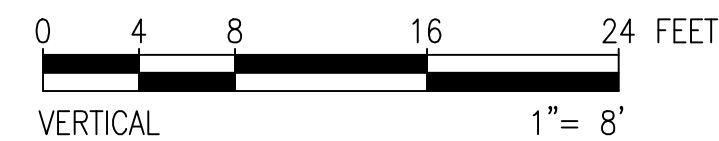
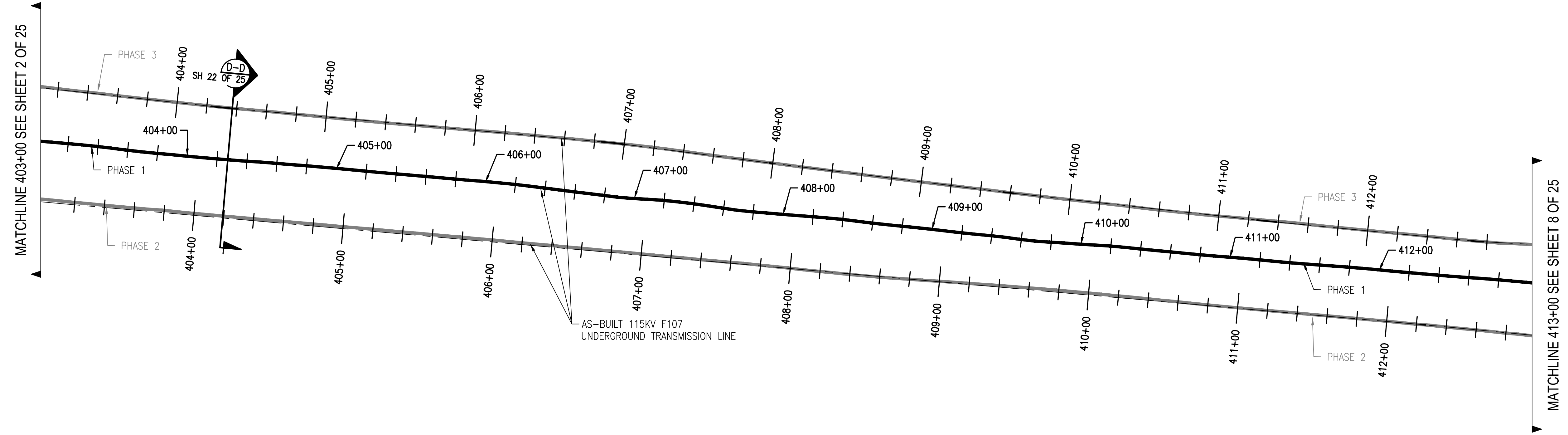
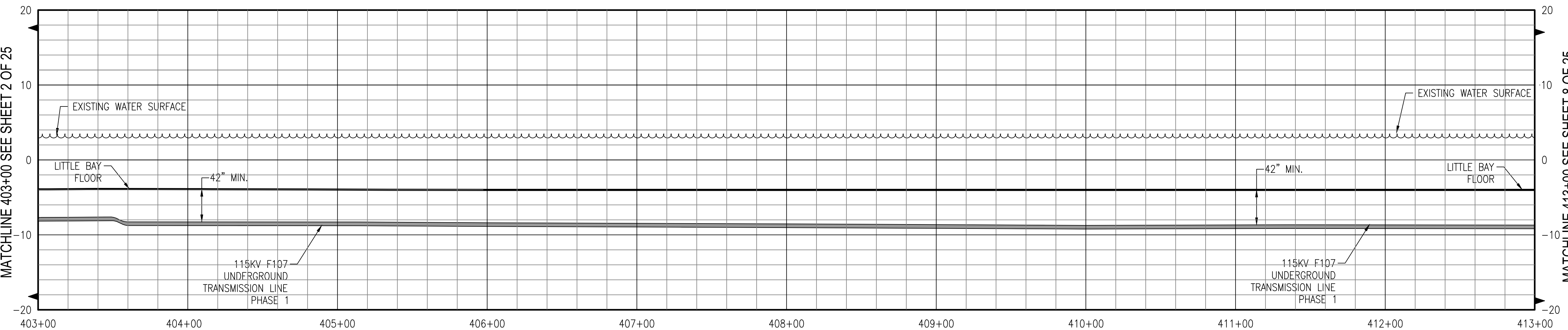
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MATCHLINE 403+00 SEE SHEET 2 OF 25

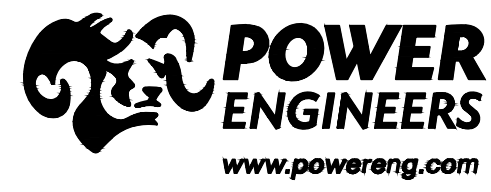
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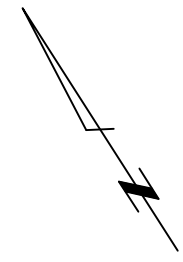
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NO.	REVISION	DATE	DRWN	CHKD	APPRV.
4	ISSUE FOR RECORD	04/17/2019	EPH-3466	M	TESTIMONIA 6-1-20
3	ISSUE FOR CONSTRUCTION	04/17/2019	EPH-3466	M	ALUMBERT 5-2-20
2	ISSUE FOR CONSTRUCTION	04/17/2019	EPH-3466	M	5-1-19
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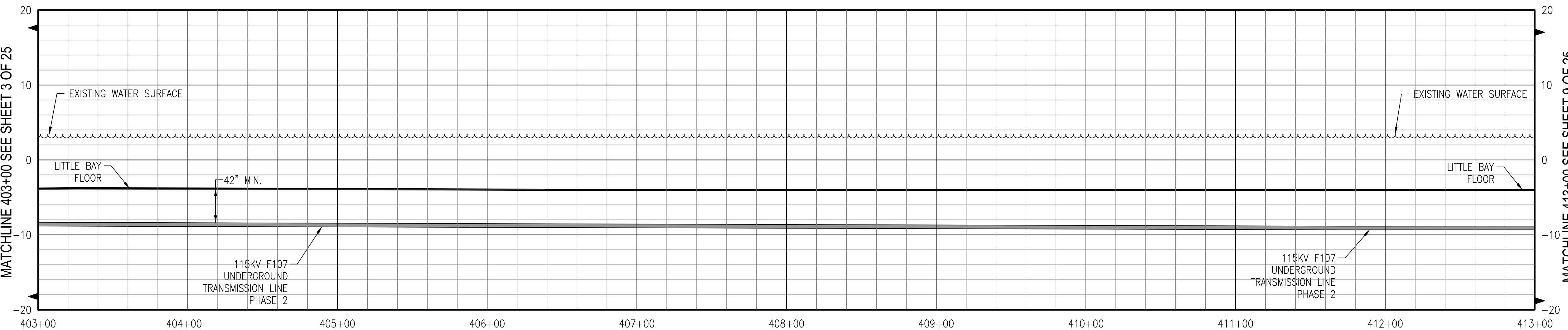
EVERSOURCE
ENERGY

T	4
DATE: 3/1/2019	
SCALE: H: 1"=40', V: 1"=8'	
CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW	
TRANSMISSION LINE: LINE	
MILE NO: 8 & 9	
DISCIPLINE/SHT NO.	
SHEET 5 OF 25	
F10743003	

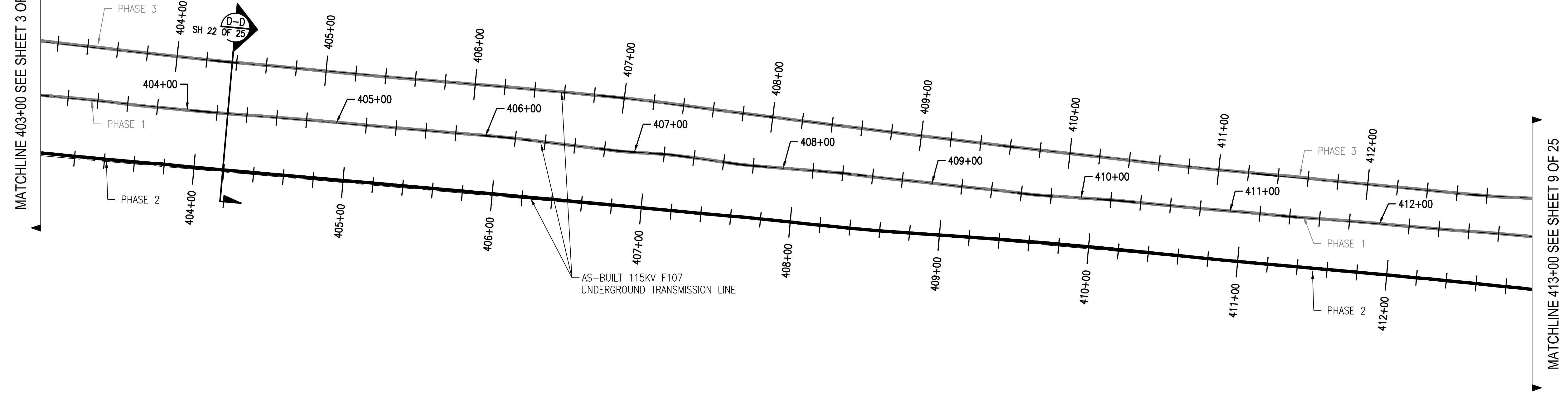


MATCHLINE 403+00 SEE SHEET 3 OF 25

MATCHLINE 403+00 SEE SHEET 3 OF 25

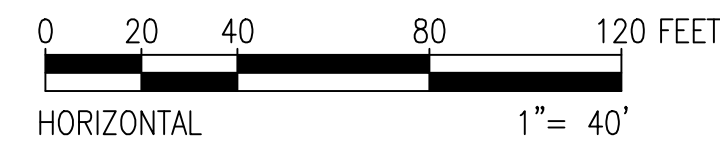
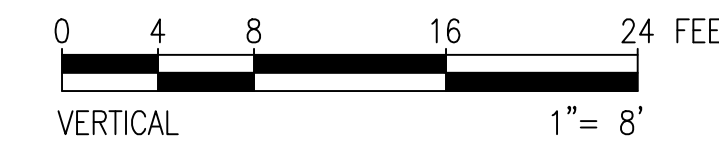


LITTLE BAY



MATCHLINE 413+00 SEE SHEET 9 OF 25

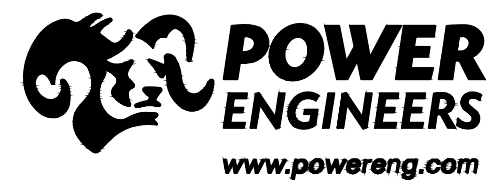
MATCHLINE 413+00 SEE SHEET 9 OF 25



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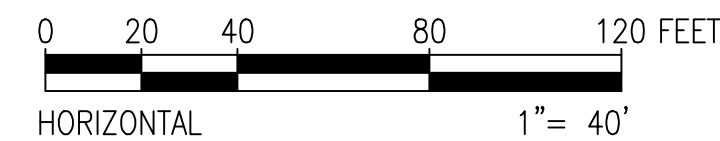
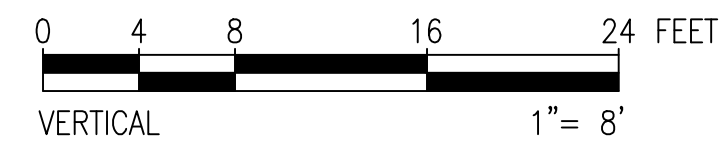
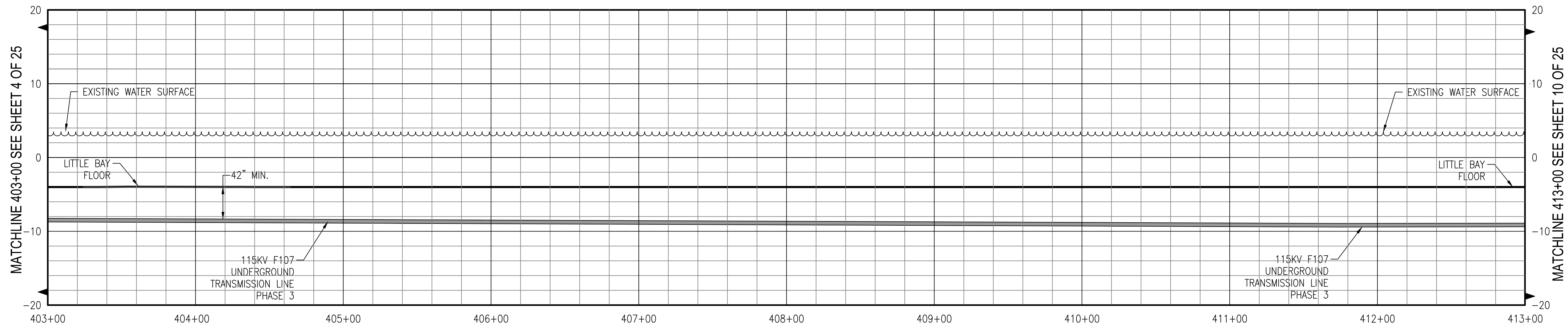
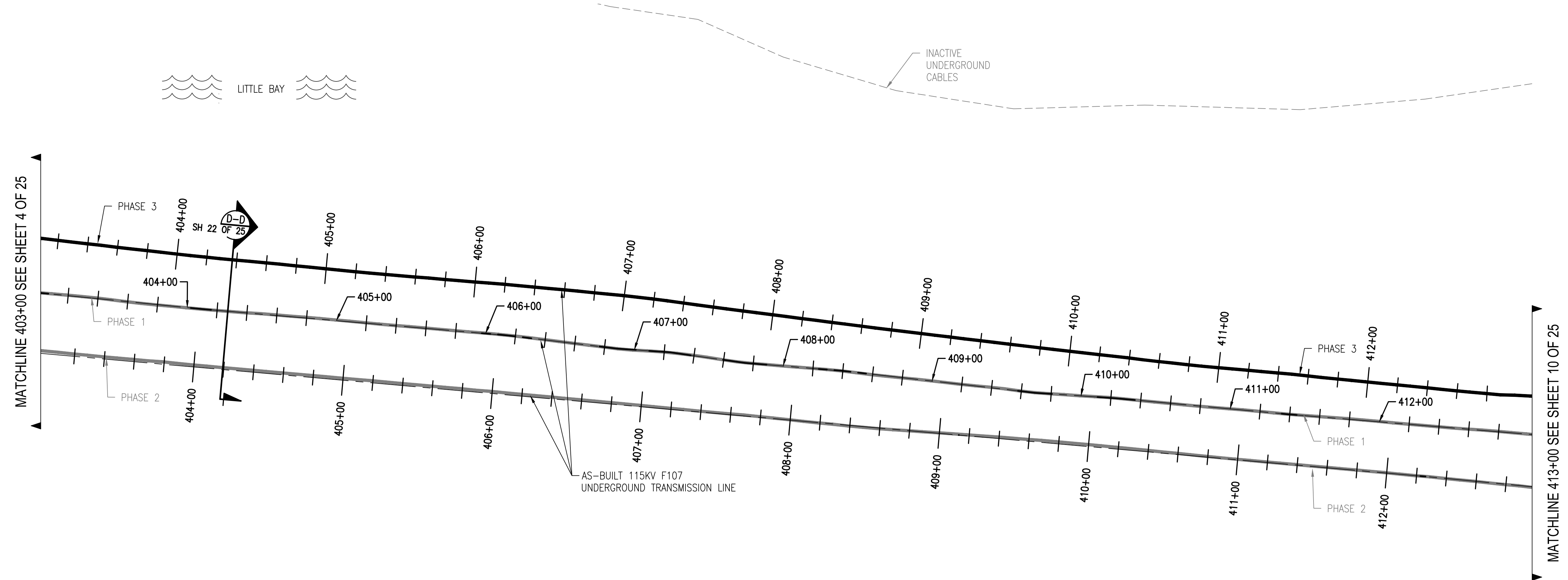
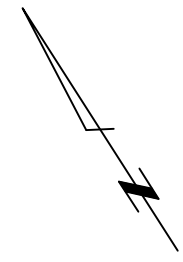
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4	ISSUE FOR RECORD	04/17/2019	EPH-3466	M	TESTIMONIAL E-1-20
3	ISSUE FOR CONSTRUCTION	04/17/2019	EPH-3466	M	CONSTRUCTION PERMIT
2	ISSUE FOR CONSTRUCTION	04/17/2019	EPH-3466	M	CONSTRUCTION PERMIT
1	ISSUE FOR CONSTRUCTION	04/17/2019	EPH-3466	M	CONSTRUCTION PERMIT

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ENERGY

T 4

CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 3/1/2019
 SCALE: H: 1"=40', V: 1"=8'

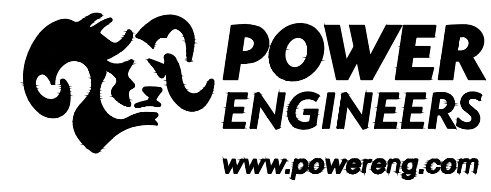
DES: REO | CHK: TSG
 DRW: REO | APR: TSG
 TOWN: DURHAM
 TRANSMISSION LINE:
 LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO.
 SHEET 6 OF 25
 F10743003



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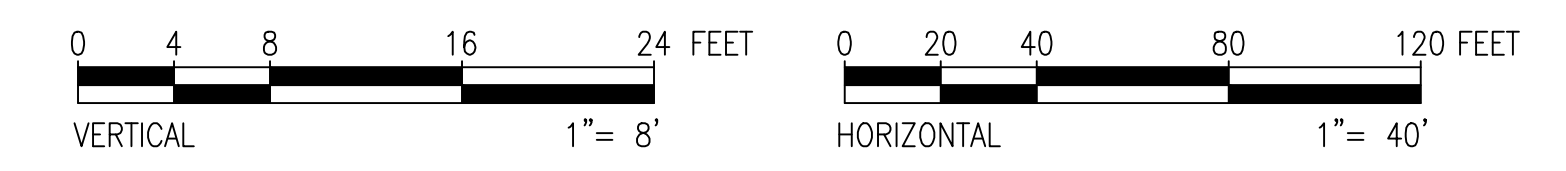
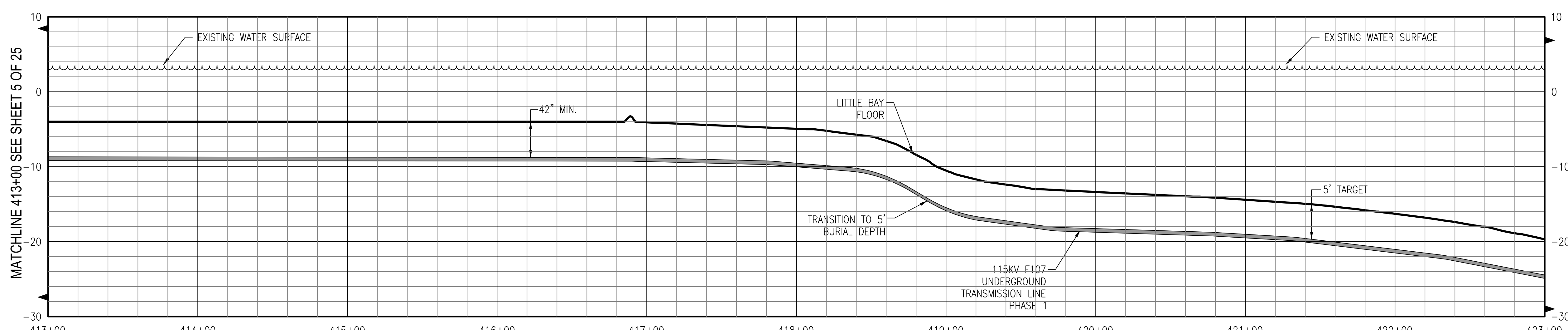
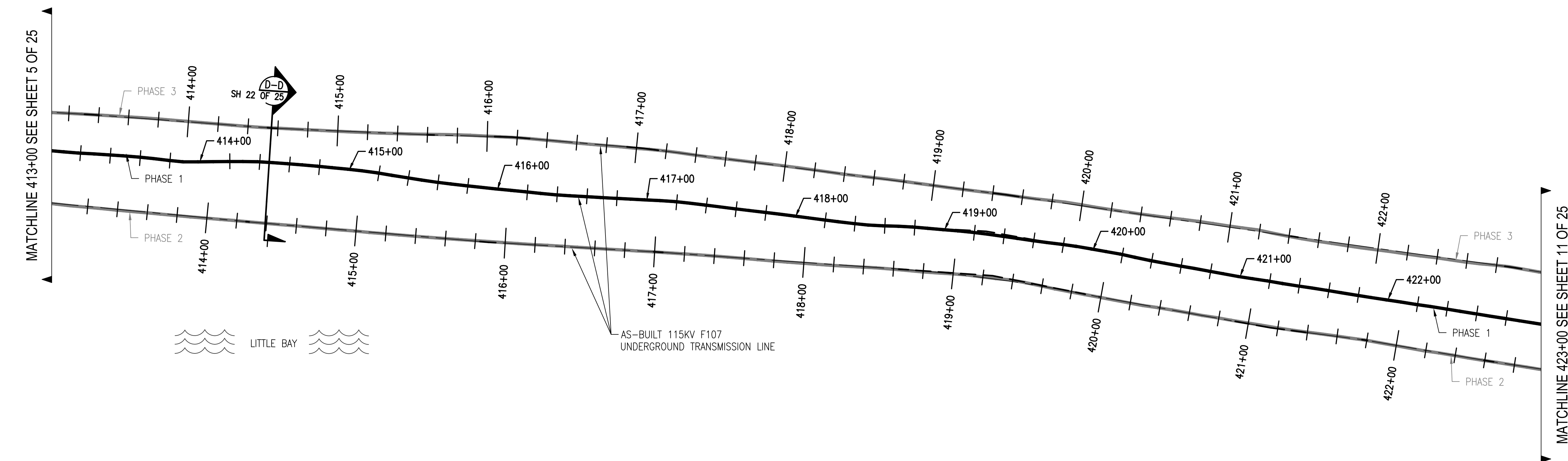
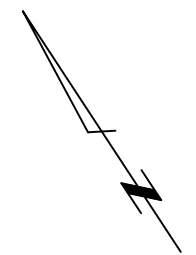
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NO.	REVISION	DATE	DRWN	CHKD	APPRV.
4	ISSUE FOR RECORD	04/17/2019	EPH-3466	M	TESTIMONIA E-1-20
3	ISSUE FOR CONSTRUCTION	04/17/2019	EPH-3466	M	TESTIMONIA E-1-20
2	ISSUE FOR CONSTRUCTION	04/17/2019	EPH-3466	M	TESTIMONIA E-1-20
1	ISSUE FOR CONSTRUCTION	04/17/2019	EPH-3466	M	TESTIMONIA E-1-20

EVERSOURCE
ENERGY

T	4
CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW	
DATE: 3/7/2019	
SCALE: H: 1"=40', V: 1"=8'	
DES: REO	CHK: TSG
DRW: REO	APR: TSG
TOWN: DURHAM	TRANSMISSION LINE: LINE
MILE NO: 8 & 9	DISCIPLINE/SHT NO.
SHEET 7 OF 25	F10743003



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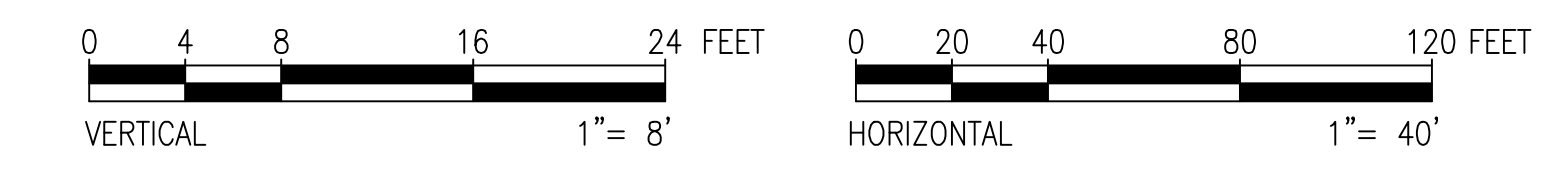
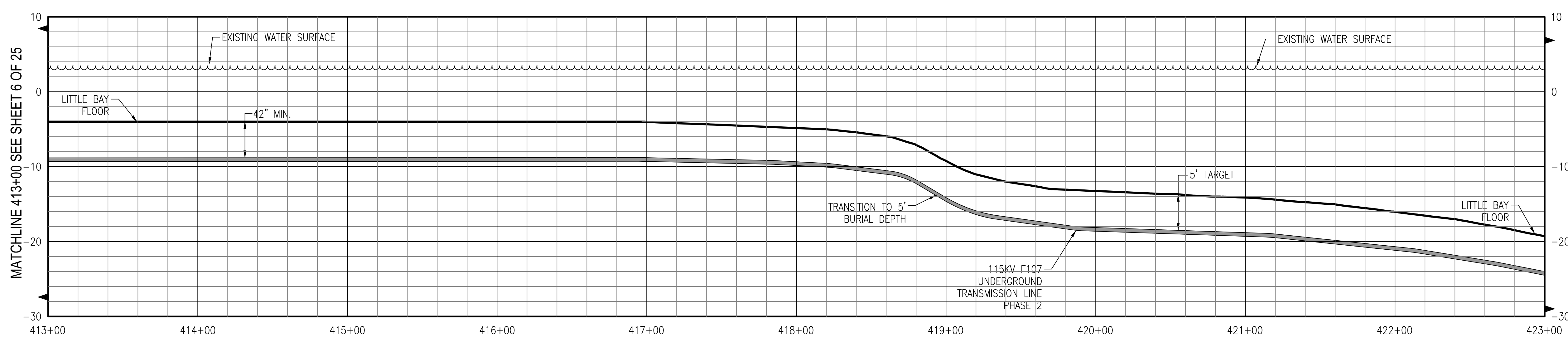
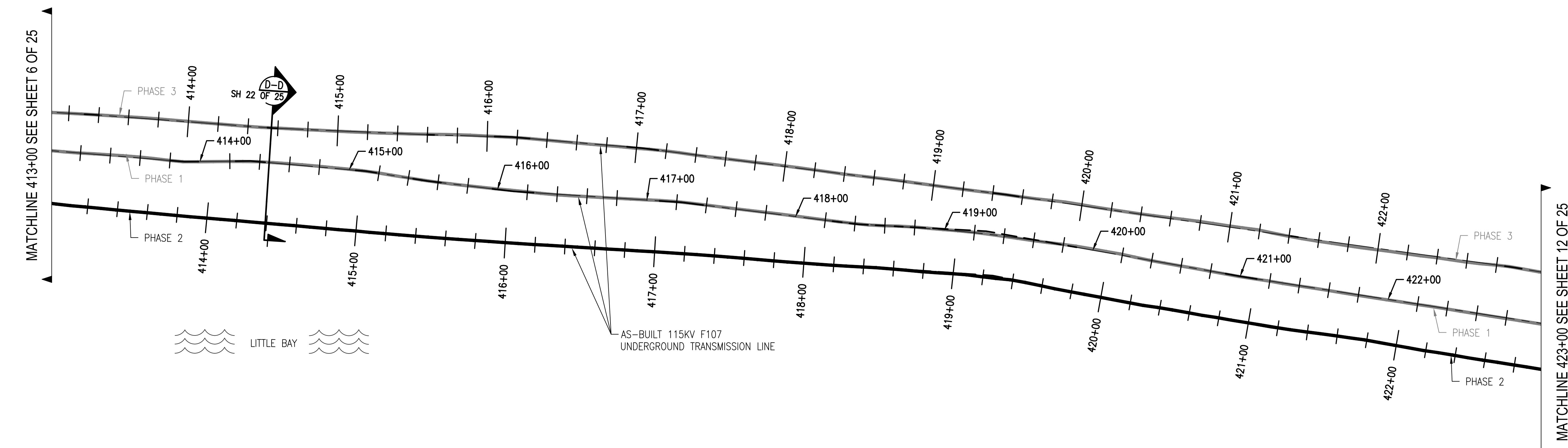
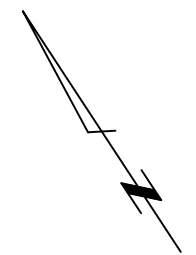
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NO.	REVISION	DATE	BY	CHKD	APPRV.
4	ISSUE FOR RECORD	04/17/2019	EPN-846	WJ	TESTORIN
3	ISSUE FOR CONSTRUCTION	02/22/19	EPN-846	WJ	TESTORIN
2	ISSUE FOR CONSTRUCTION	02/22/19	EPN-846	WJ	TESTORIN
1	ISSUE FOR CONSTRUCTION	03/11/19	EPN-846	WJ	TESTORIN

EVERSOURCE
ENERGY

T 4
 DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'
 TRANSMISSION LINE:
 LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO.
 SHEET 8 OF 25
 F10743003





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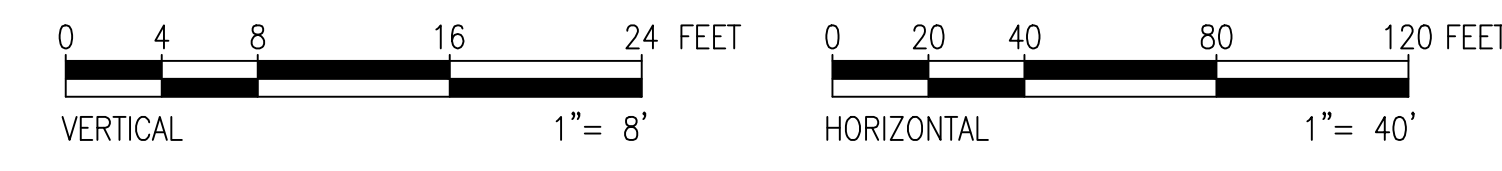
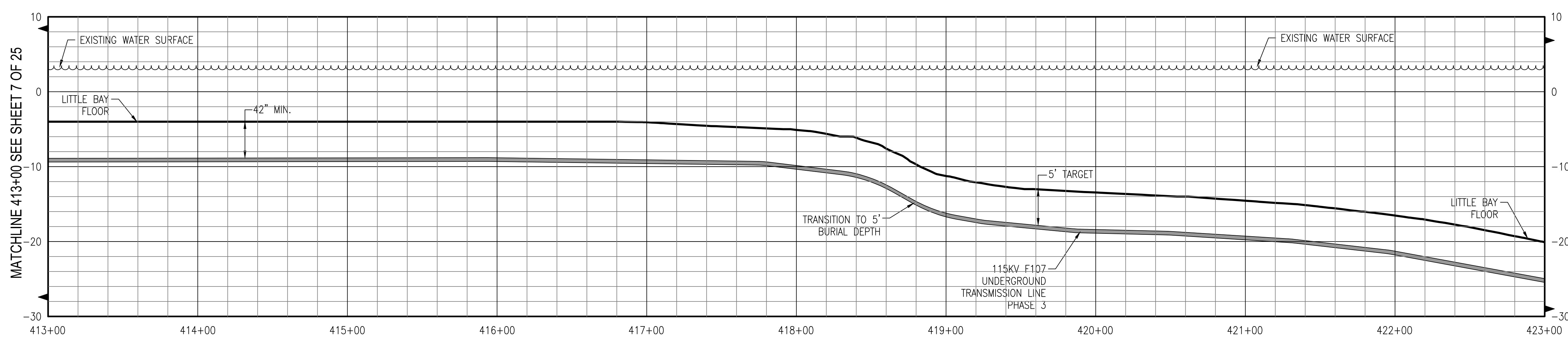
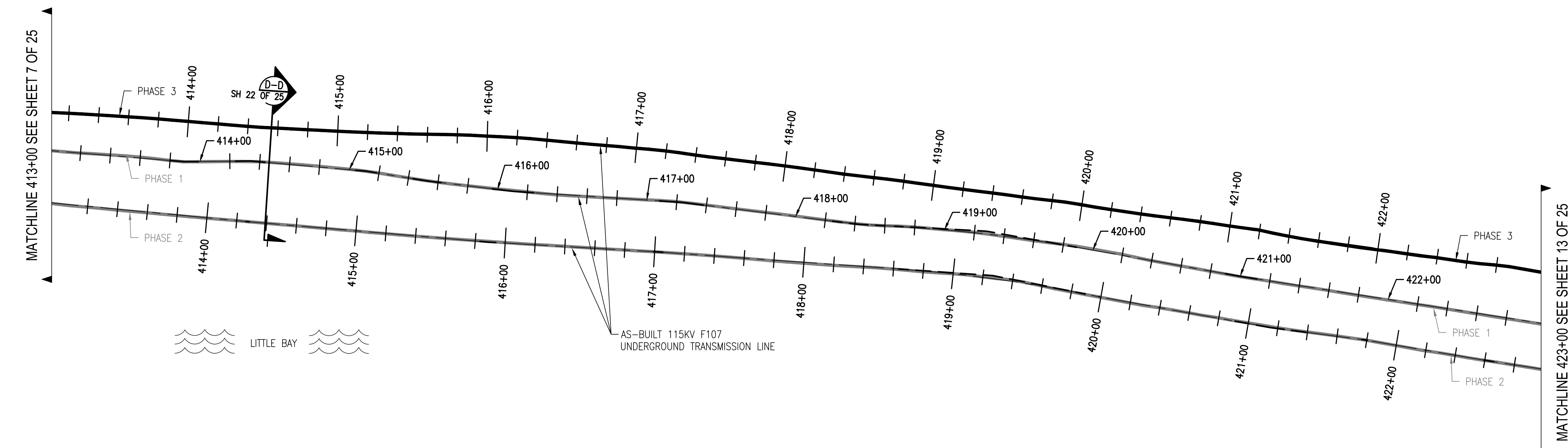
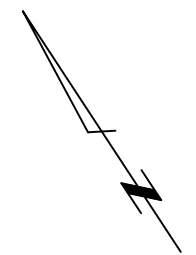
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4	ISSUE FOR RECORD	04/17/2019	EPN-9466	W. JESTERSON	8-1-20
3	ISSUE FOR CONSTRUCTION	04/17/2019	EPN-9466	W. JESTERSON	8-1-20
2	ISSUE FOR CONSTRUCTION	04/17/2019	EPN-9466	W. JESTERSON	8-1-20
1	ISSUE FOR CONSTRUCTION	04/17/2019	EPN-9466	W. JESTERSON	8-1-20

EVERSOURCE
 ENERGY

CIRCUIT F107 115KV
 UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'

DES.:	REV:	CHKD.:
DRW.:	REV:	APR.:
TOWN:	DURHAM	
TRANSMISSION LINE:	LINE	
MILE NO.:	8 & 9	
DISCIPLINE/SHT NO.:	SHEET 9 OF 25	
F10743003		





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NO.	REVISION	DATE	BY	CHKD	APPRV.
4	ISSUE FOR RECORD WITH PER-866 W/ REVISIONS 8-1-20		PCM	RED	TSG
3	ISSUE FOR RECORD WITH PER-866 W/ REVISIONS 5-23-19		PCM	RED	TSG
2	ISSUE FOR RECORD WITH PER-866 W/ REVISIONS 5-23-19		PCM	RED	TSG
1	ISSUE FOR CONSTRUCTION WITH PER-866	5-1-19	PCM	RED	TSG

EVERSOURCE
 ENERGY

CIRCUIT F107 115KV
 UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'

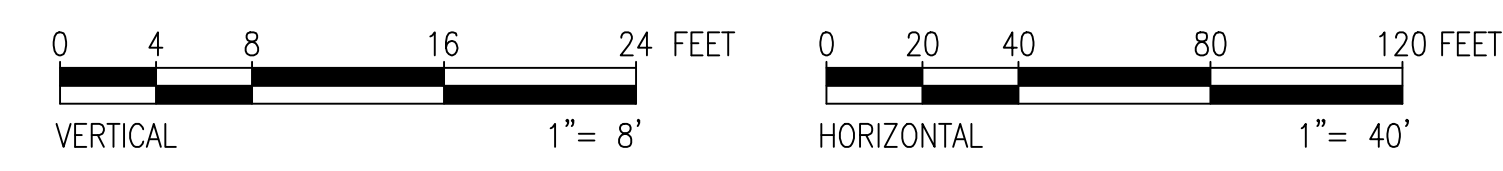
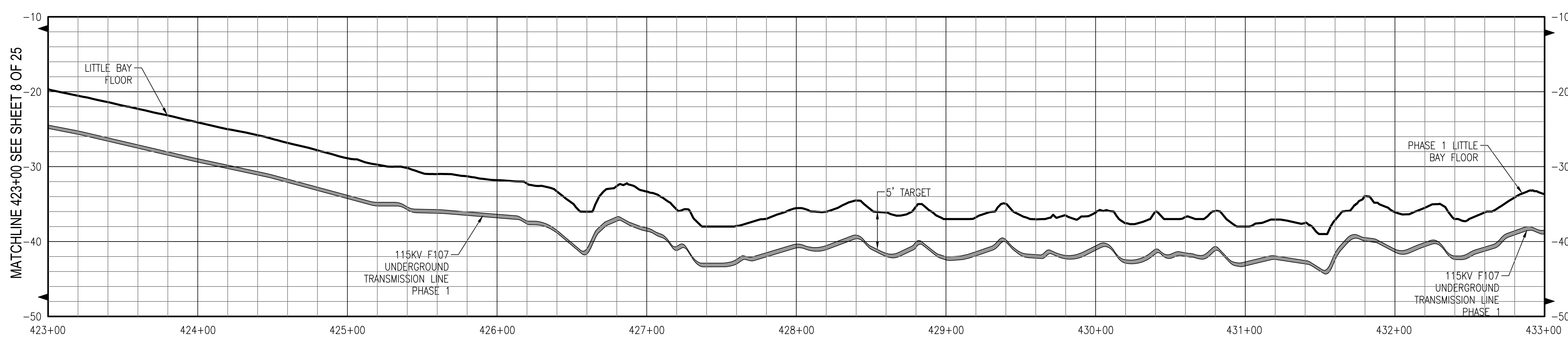
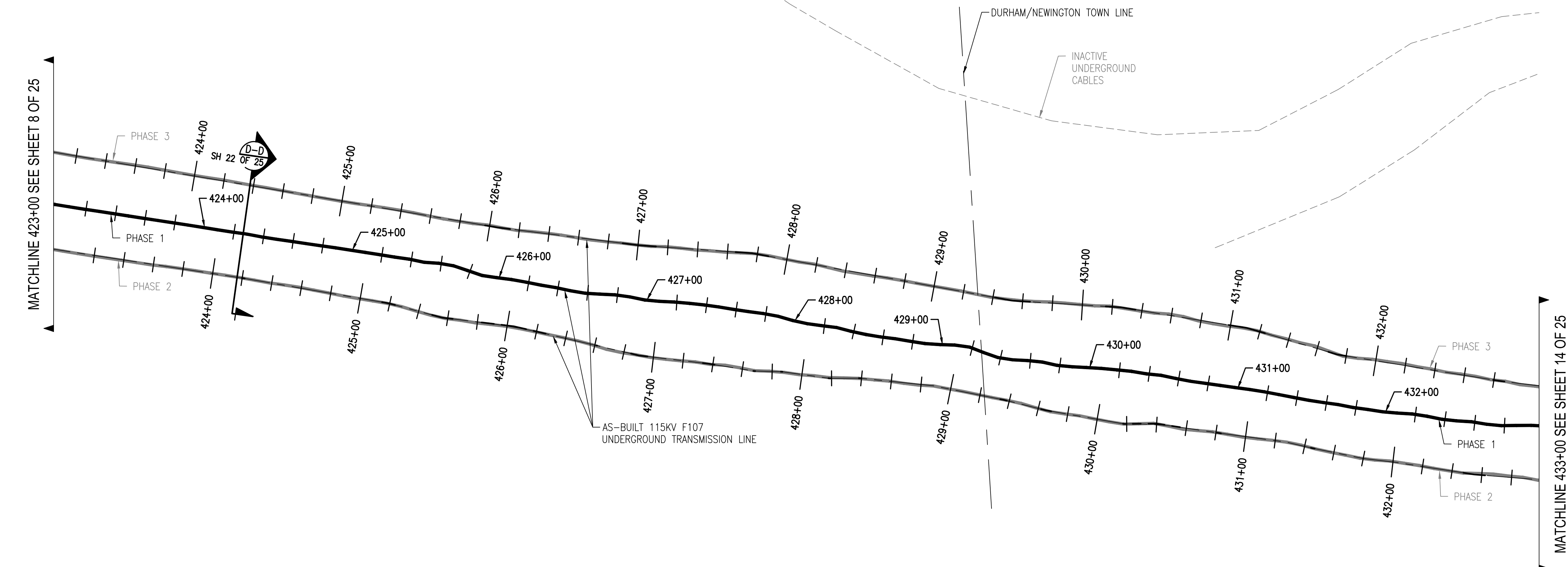
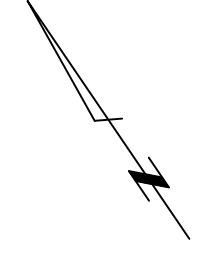
DES: RED	CHK: TSG
DRW: RED	APR: TSG

TOWN: DURHAM
 TRANSMISSION LINE: LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO.
 SHEET 10 OF 25
 F10743003



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NO.	REVISION	DATE	DRAWN	CHECKED	APPROVED
4	ISSUE FOR RECORD	04/17/2019	EPH-846	WJ	TESTORUN 02-1-20
3	ISSUE FOR CONSTRUCTION	03/11/19	EPH-846	WJ	03/11/19
2	ISSUE FOR CONSTRUCTION	03/11/19	EPH-846	WJ	03/11/19
1	ISSUE FOR CONSTRUCTION	03/11/19	EPH-846	WJ	03/11/19

EVERSOURCE
ENERGY

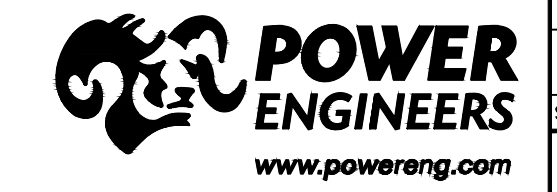
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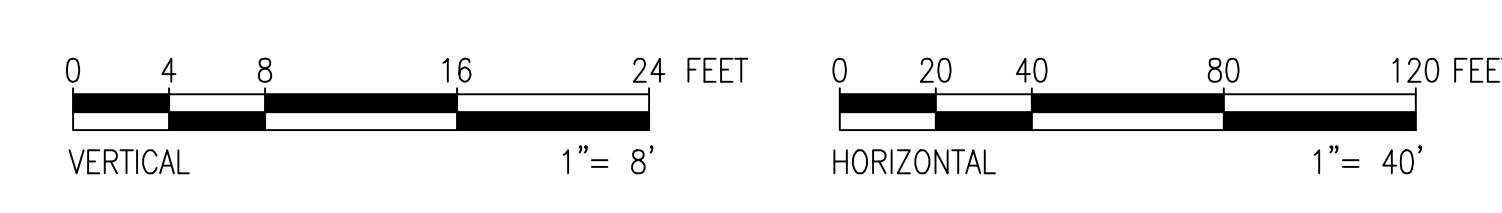
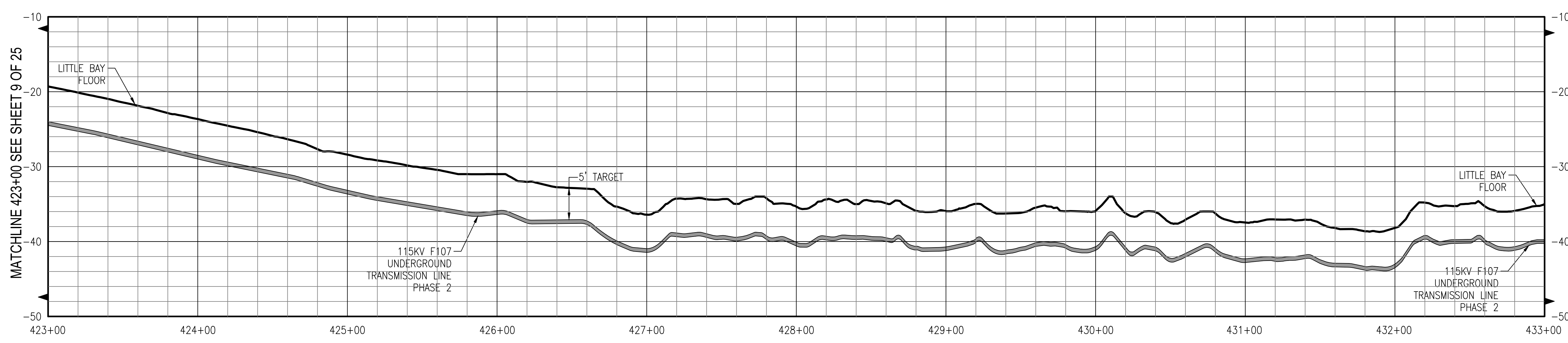
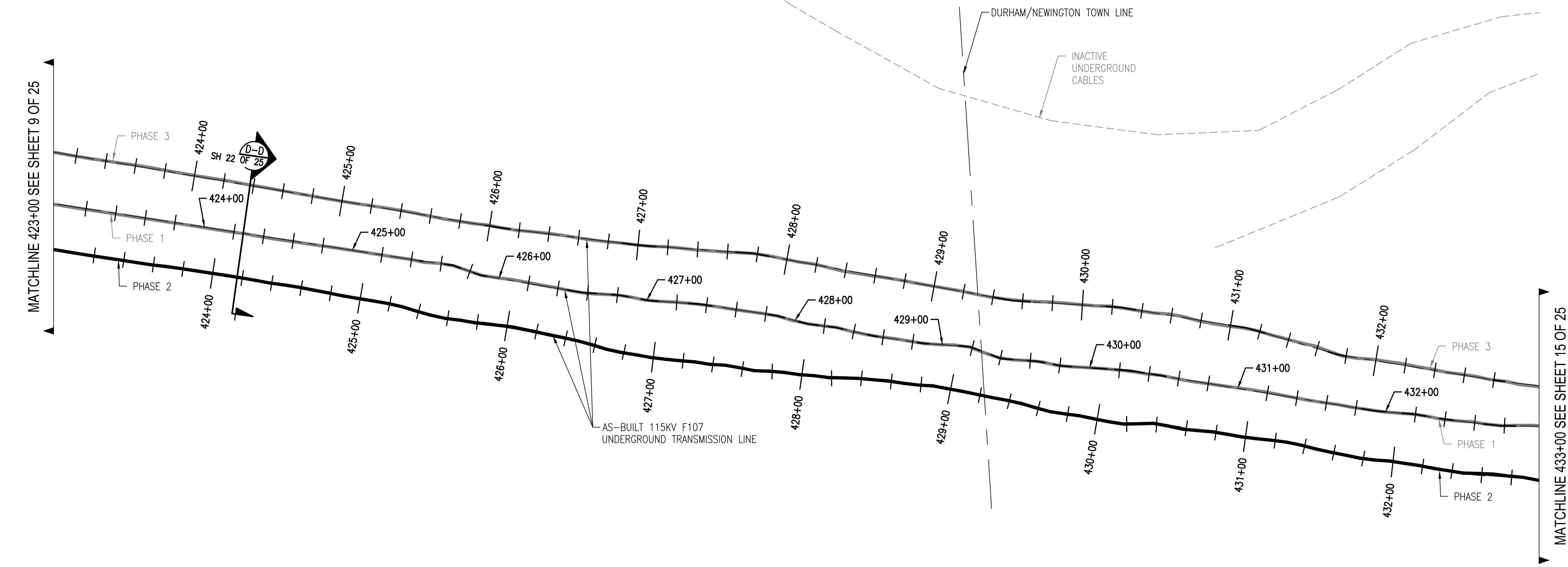
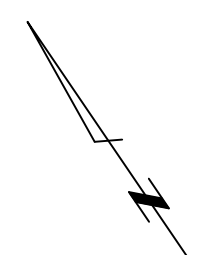
CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE VIEW
DATE: 3/7/2019
SCALE: H: 1"=40', V: 1"=8'

DES: REO
CHK: TSG
DRW: REO
APR: TSG

TOWN: DURHAM & NEWINGTON
TRANSMISSION LINE: LINE
MILE NO: 8 & 9
DISCIPLINE/SHT NO.

SHEET 11 OF 25
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NO.	REVISION	DATE	DRAWN	CHECKED	APPROVED
4	ISSUE FOR RECORD	04/17/2019	EPH-846	WJ	TESTORUN 02-1-20
3	ISSUE FOR CONSTRUCTION	03/22/19	EPH-846	WJ	TESTORUN 02-23-19
2	ISSUE FOR CONSTRUCTION	03/22/19	EPH-846	WJ	TESTORUN 02-23-19
1	ISSUE FOR CONSTRUCTION	03/11/19	EPH-846	WJ	TESTORUN 02-23-19

EVERSOURCE
ENERGY

T 4

DATE: 3/1/2019

CIRCUIT: F107 115KV UNDERGROUND TRANSMISSION LINE

PLAN AND PROFILE VIEW

SCALE: H: 1"=40', V: 1"=8'

DES: REO CHK: TSG
 DRW: REO APR: TSG

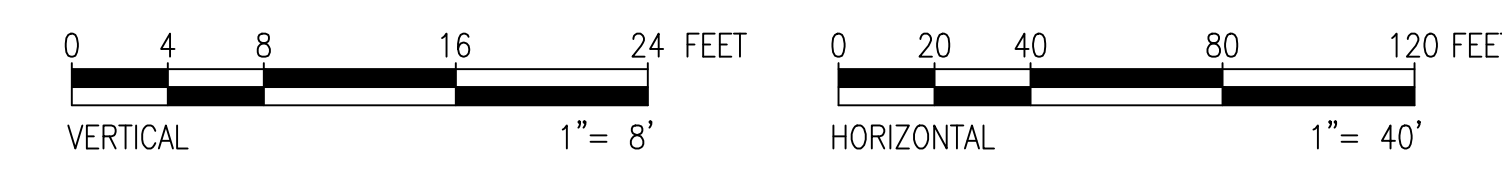
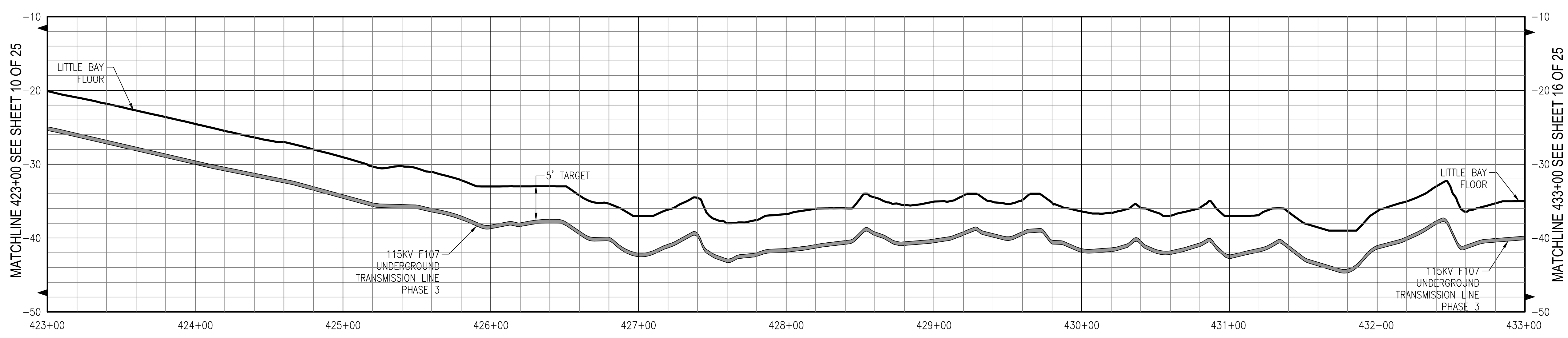
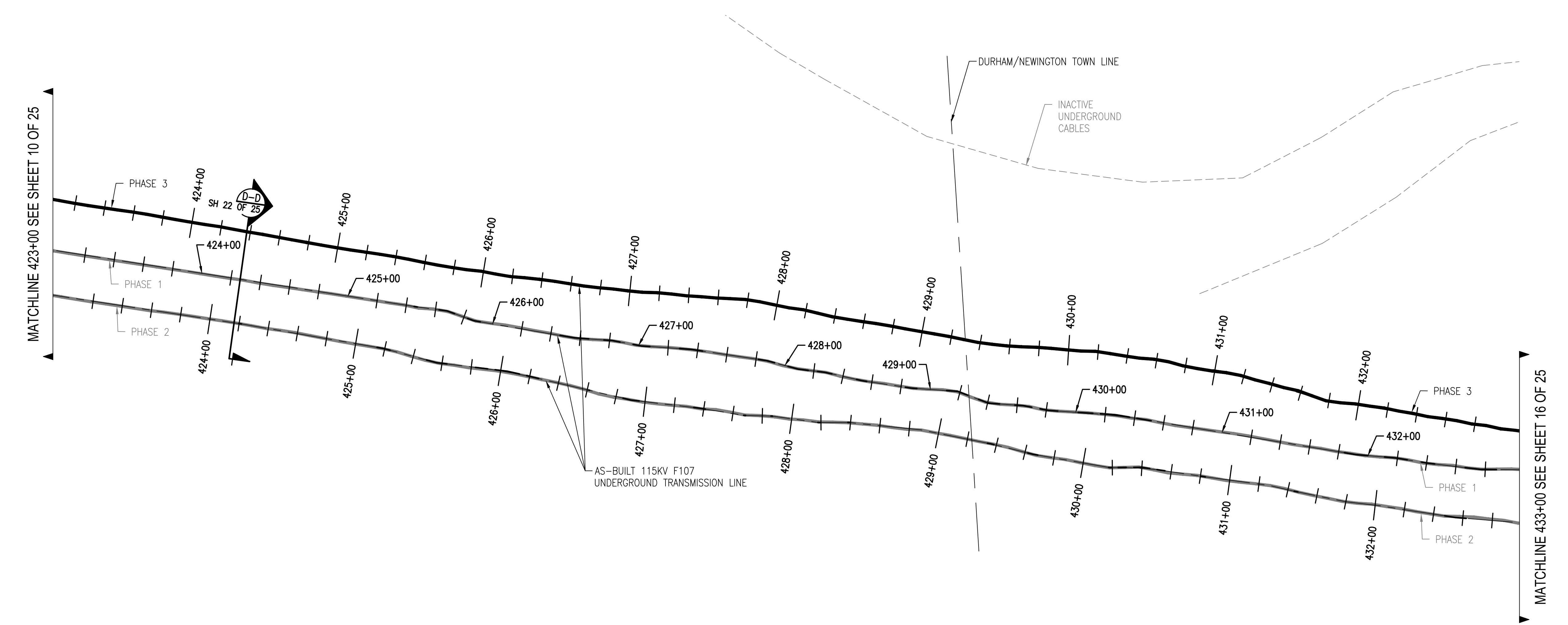
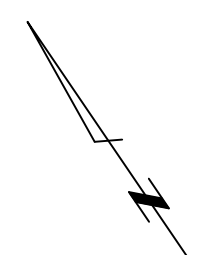
TOWN: DURHAM & NEWINGTON

TRANSMISSION LINE: LINE

DISCIPLINE/SHT NO. 8 & 9

SHEET 12 OF 25

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NO.	REVISION	DATE	BY	CHKD	APPRV.
1	ISSUE FOR CONSTRUCTION	05-11-19	DRW	TSG	TSG
2	ISSUE FOR CONSTRUCTION	05-23-19	DRW	TSG	TSG
3	ISSUE FOR CONSTRUCTION	05-23-19	DRW	TSG	TSG
4	ISSUE FOR RECORD	05-11-20	PCW	RED	TSG

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ENERGY

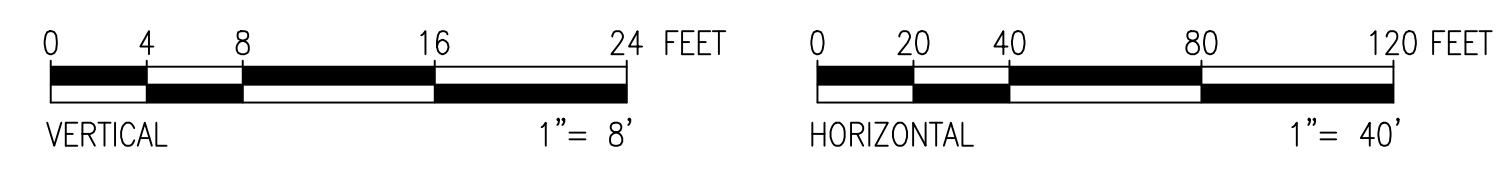
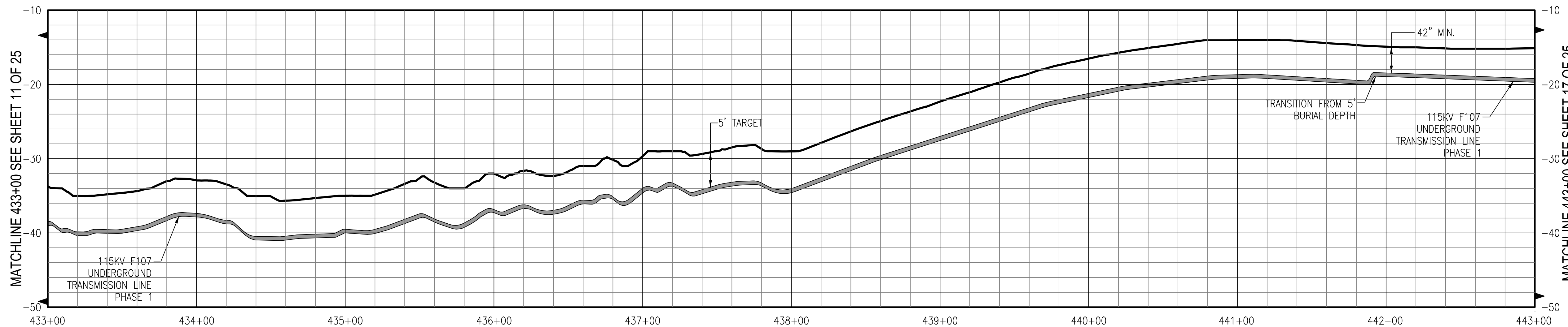
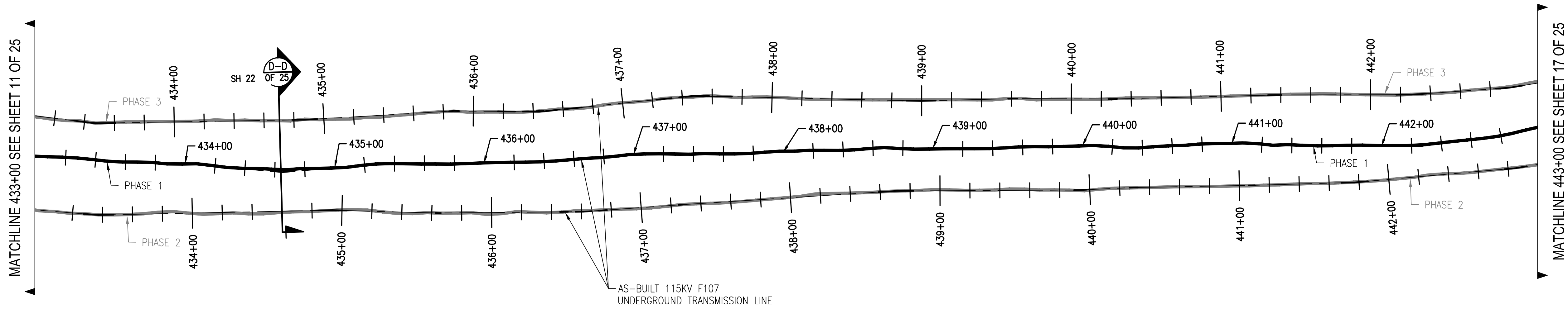
CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE VIEW
DATE: 3/1/2019
SCALE: H: 1"=40', V: 1"=8'

T	4
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DES: RED
CHK: TSG
DRW: RED
APR: TSG

TOWN: DURHAM & NEWINGTON
TRANSMISSION LINE: LINE
MILE NO: 8 & 9
DISCIPLINE/SHT NO.

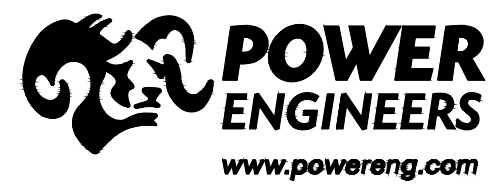
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NO.	REVISION	DATE	BY	CHKD	APPRV.
4	ISSUE FOR RECORD WITH 7/24/17 PER-9466 W/ REVISIONS 8-1-20		PCM	RED	TSG
3	ISSUE FOR RECORD WITH 7/24/17 PER-9466 W/ REVISIONS 8-1-20		PCM	RED	TSG
2	ISSUE FOR RECORD WITH 7/24/17 PER-9466 W/ REVISIONS 8-1-20		PCM	RED	TSG
1	ISSUE FOR CONSTRUCTION WITH 7/24/17 PER-9466	5-1-19	RED	TSG	TSG

EVERSOURCE ENERGY

T 4

CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE VIEW
DATE: 3/7/2019
SCALE: H: 1"=40', V: 1"=8'

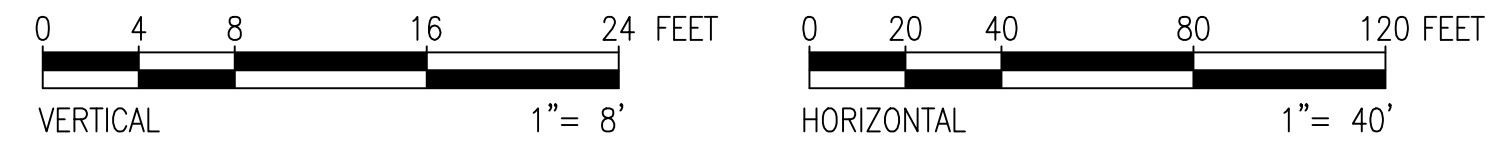
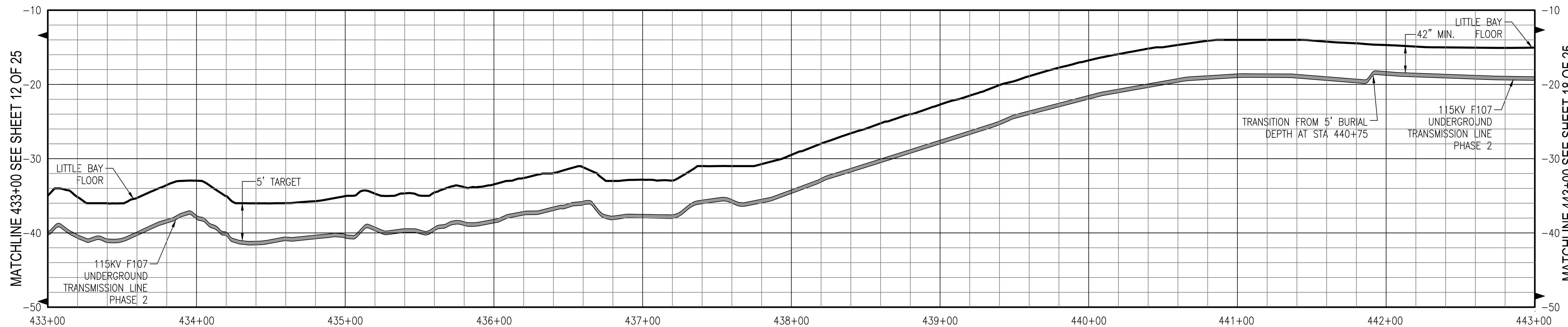
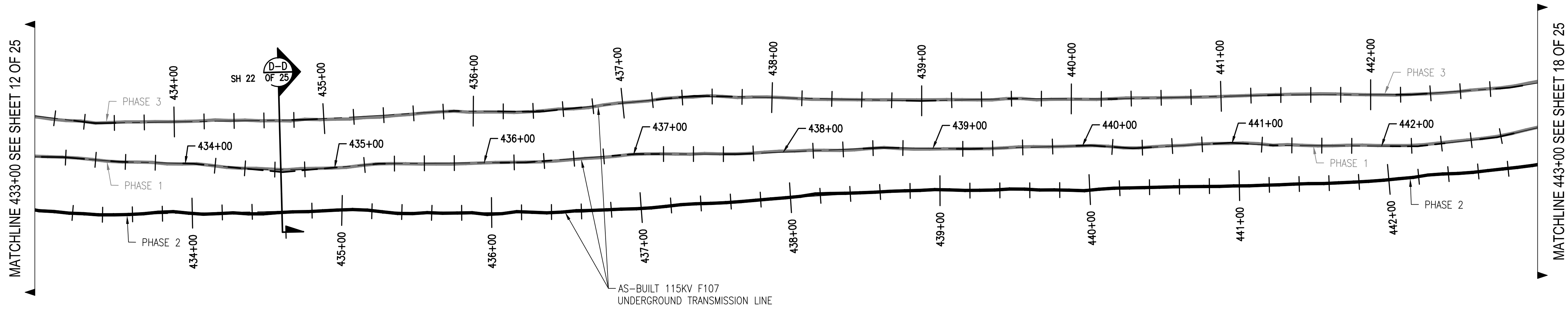
DES: RED CHK: TSG
DRW: RED APR: TSG

TOWN: NEWINGTON
TRANSMISSION LINE: LINE

DISCIPLINE/SHT NO. LINE

MILE NO: 8 & 9

SHEET 14 OF 25
F10743003



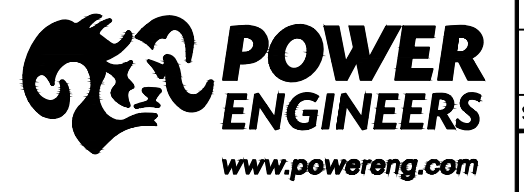
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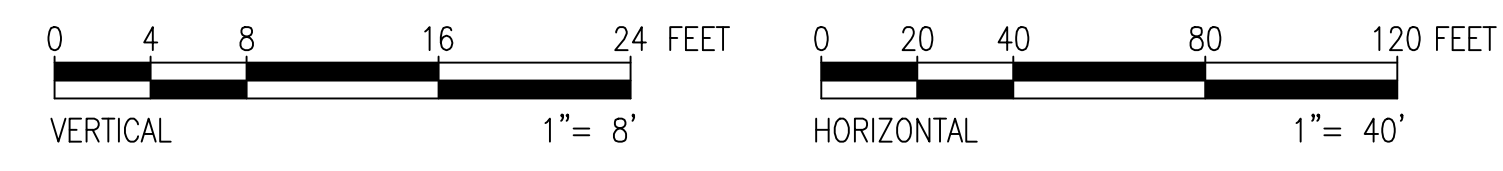
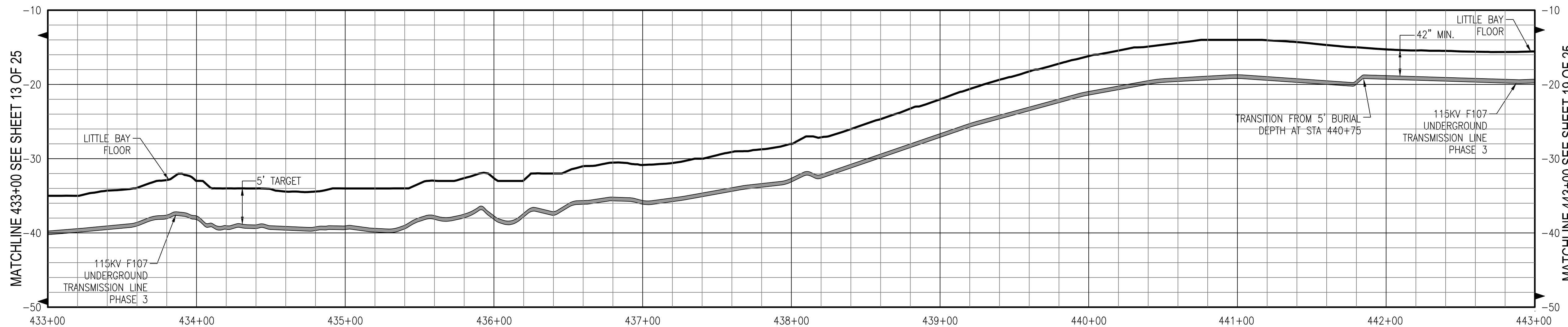
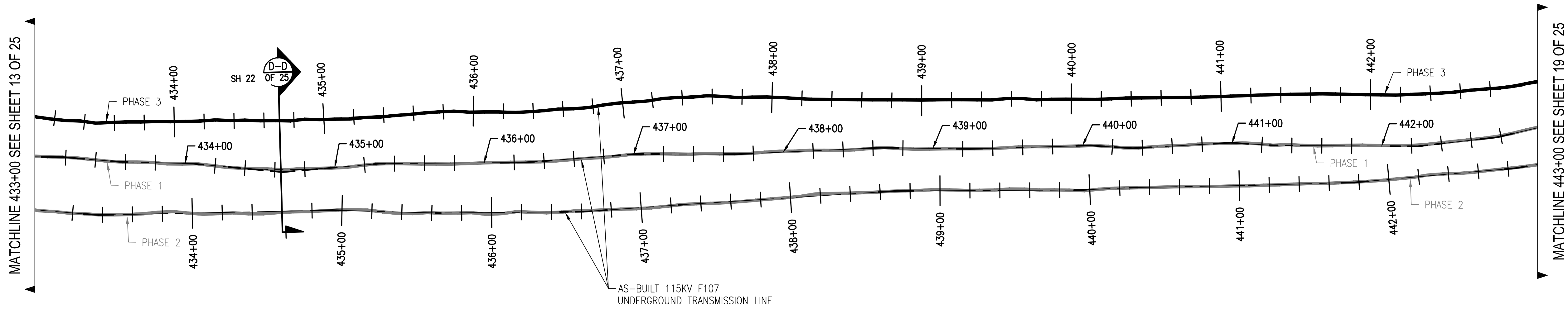
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NO.	REVISION	DATE	DRAWN	CHECKED	APPROVED
4	ISSUE FOR RECORD WITH 7/24/17 PER 8466 W/ REVISIONS 8-1-17		PCM	RED	TSG
3	ISSUE FOR RECORD WITH 7/24/17 PER 8466 W/ REVISIONS 8-1-17		PCM	RED	TSG
2	ISSUE FOR RECORD WITH 7/24/17 PER 8466 W/ REVISIONS 8-1-17		PCM	RED	TSG
1	ISSUE FOR CONSTRUCTION WITH 7/24/17 PER 8466	5-1-19	RED	TSG	TSG

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 DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'
 TRANSMISSION LINE:
 LINE
 SHEET 15 OF 25
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NO.	REVISION	DATE	BY	CHKD	APPRV.
1	ISSUE FOR CONSTRUCTION	05-1-19	REG	TSG	TSG
2	REVISED DRAWING	05-23-19	REG	TSG	TSG
3	REVISED DRAWING	05-23-19	REG	TSG	TSG
4	ISSUE FOR RECORD	05-1-20	PCM	REG	TSG

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CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE VIEW
DATE: 3/7/2019
SCALE: H: 1"=40', V: 1"=8'

T 4

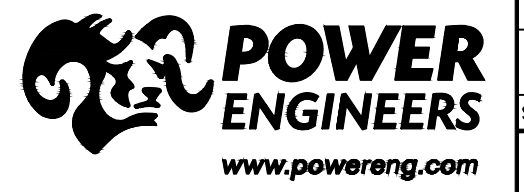
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CHK: TSG
DRAW: REG
APR: TSG

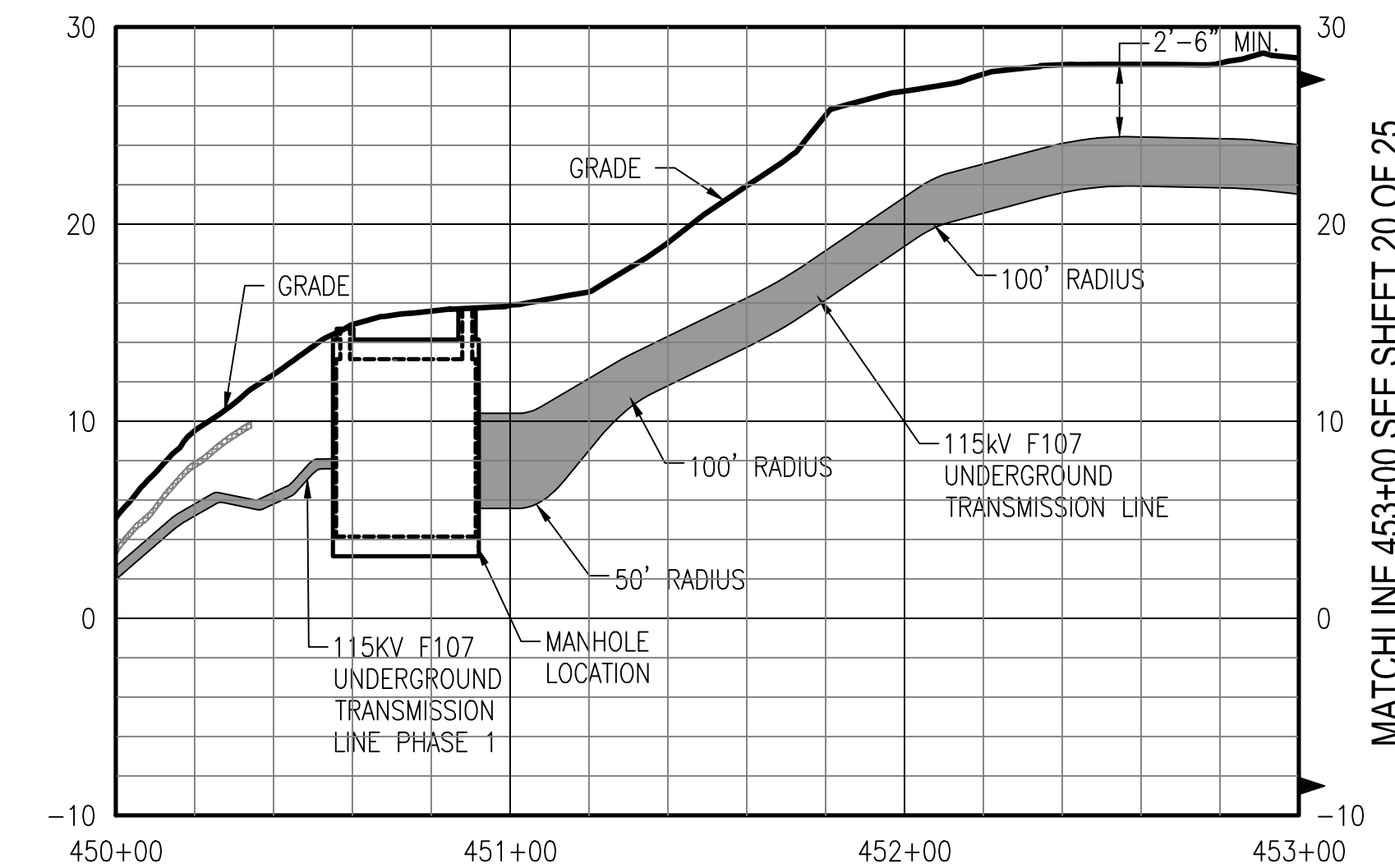
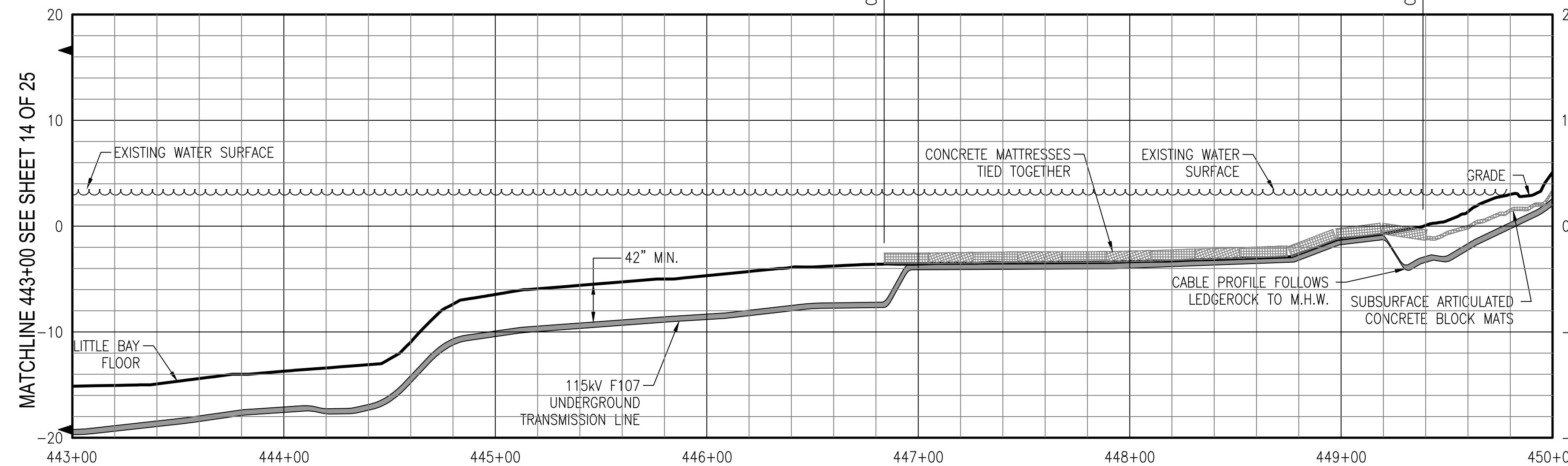
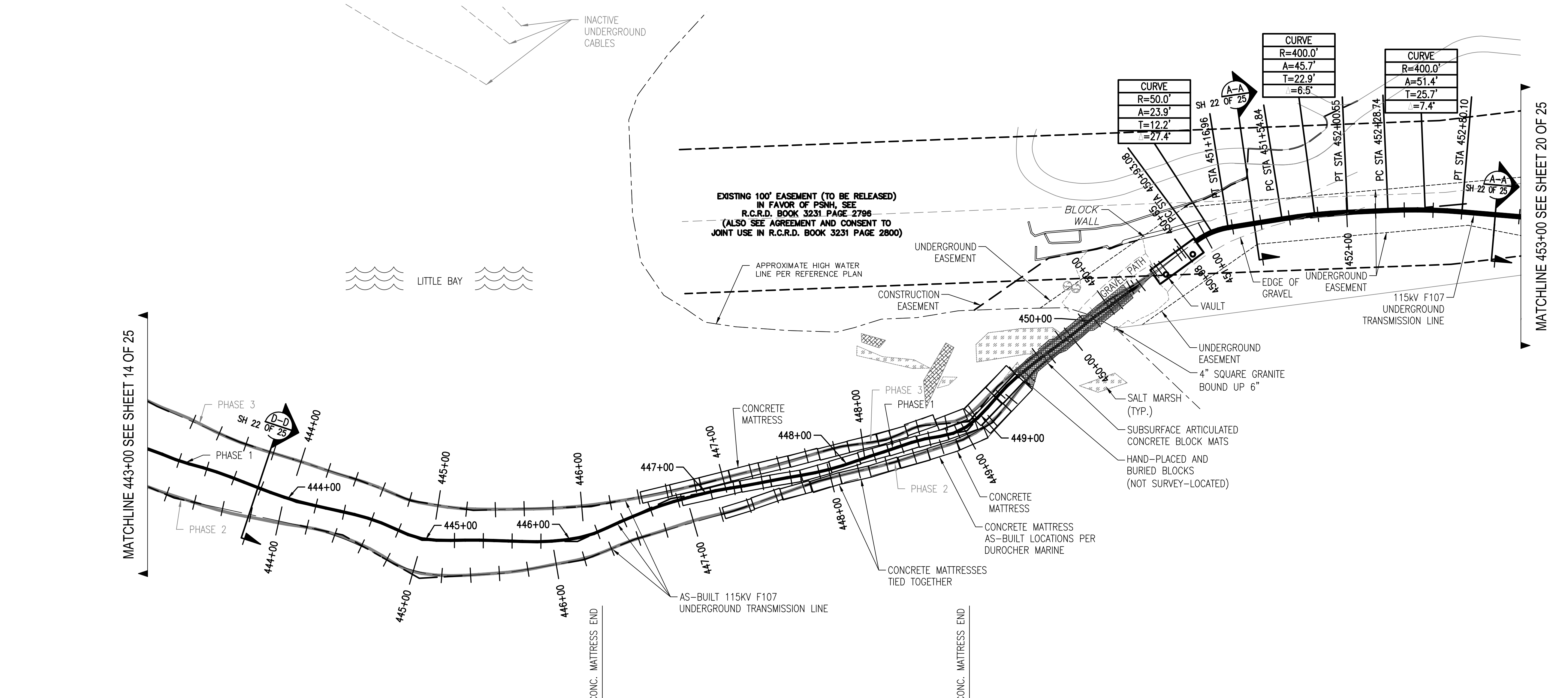
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TRANSMISSION LINE: LINE

SCALE: H: 1"=40', V: 1"=8'

MILE NO: 8 & 9
DISCIPLINE/SHT NO.

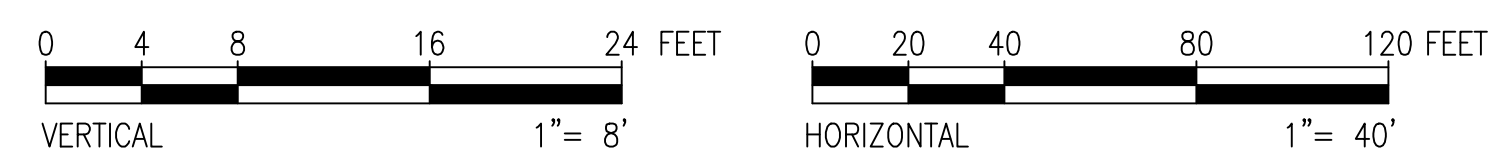
SHEET 16 OF 25
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MATCHLINE 443+00 SEE SHEET 14 OF 25

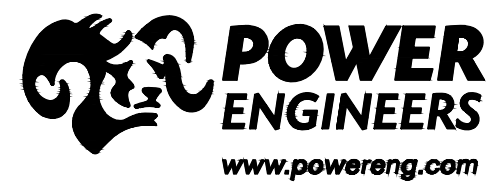
MATCHLINE 453+00 SEE SHEET 20 OF 25



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NO.	REVISION	DATE	BY	CHKD	APPRV.
1	ISSUE FOR CONSTRUCTION	05/11/19	RSB	RSB	RSB
2	REV. FOR UTILITY FIELD WORK	05/23/19	RSB	RSB	RSB
3	REV. FOR UTILITY FIELD WORK	05/23/19	RSB	RSB	RSB
4	ISSUE FOR RECORD	05/23/19	PCW	PCW	RSB

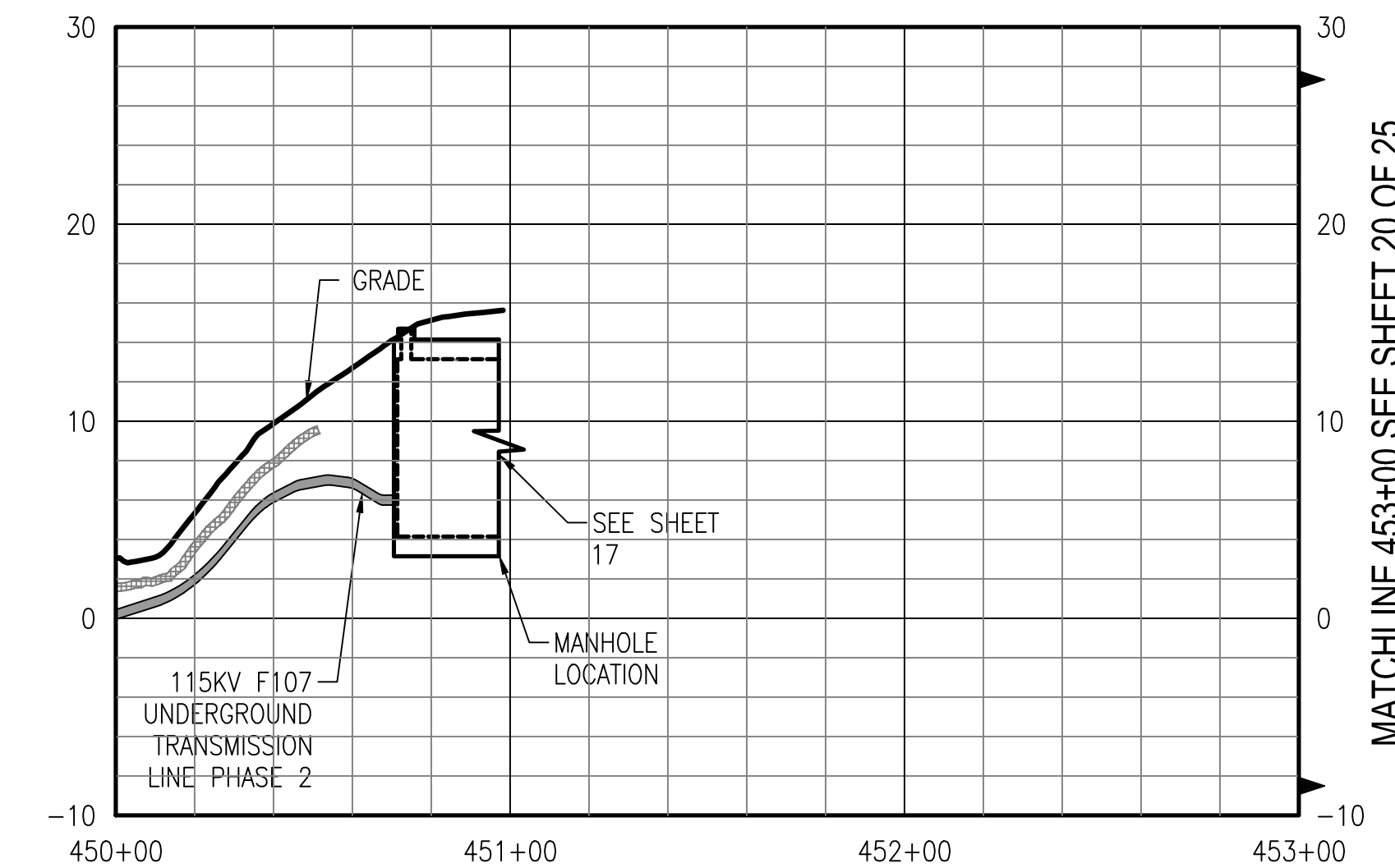
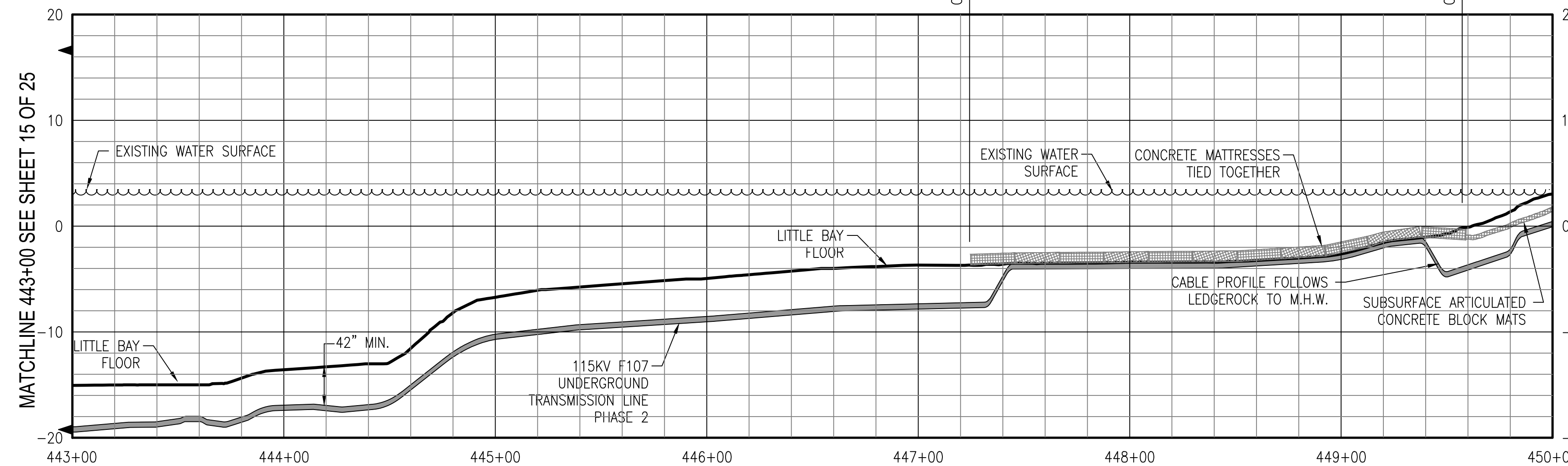
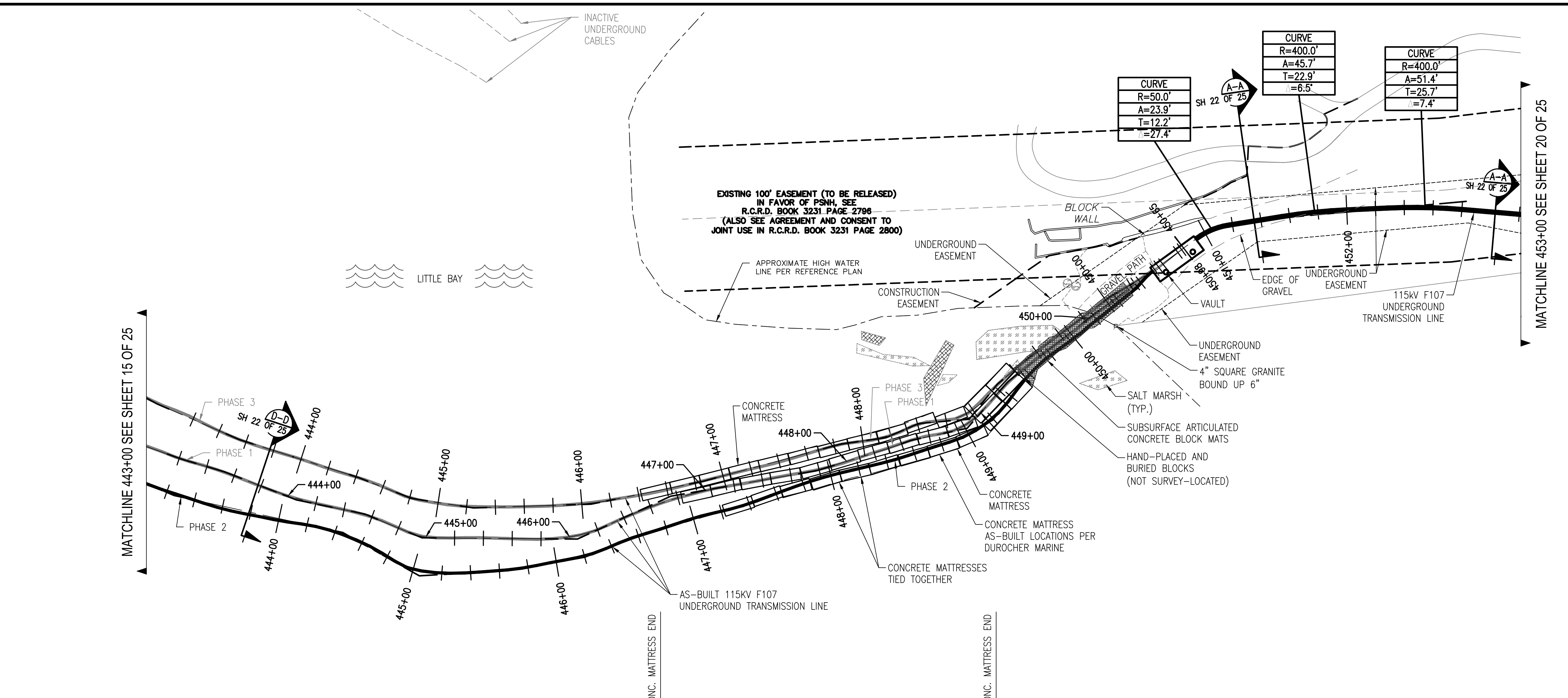
EVERSOURCE
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CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 5/7/2019
 SCALE: H: 1"=40', V: 1"=8'

T 4

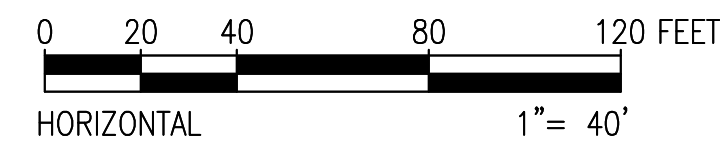
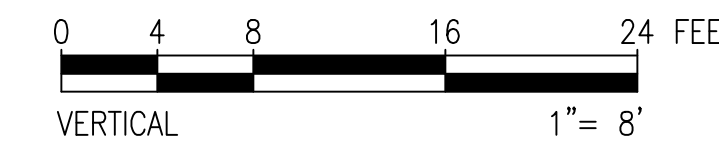
DES. REQ. CHKD: TSG
 DRW. REQ. APR: TSG
 TOWN: NEWINGTON
 TRANSMISSION LINE: LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO.
 SHEET 17 OF 25
 F10743003

6/3/2020 10:36 AM - E:\Projects\133007\DD\DWG\09 Final CADD Files\To EVERSOURCE\As-Built\Little Bay (F10743003)\REV 4\F10743003.dwg - 18 ES MER. 11/2015



MATCHLINE 443+00 SEE SHEET 15 OF 25

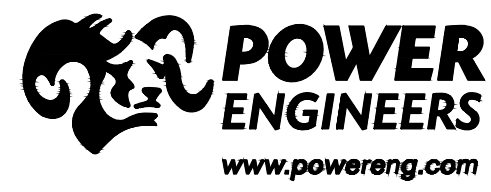
MATCHLINE 453+00 SEE SHEET 20 OF 25



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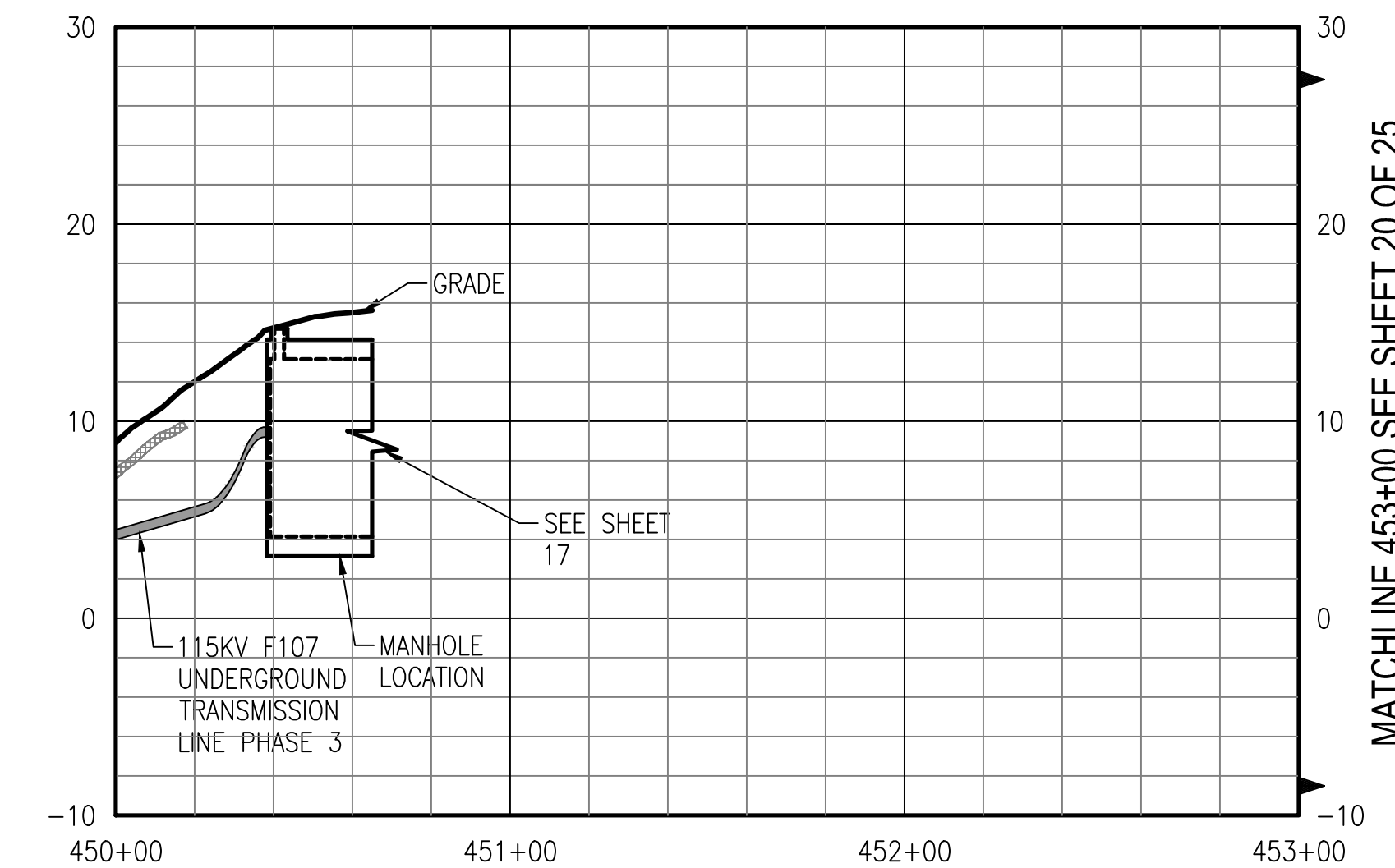
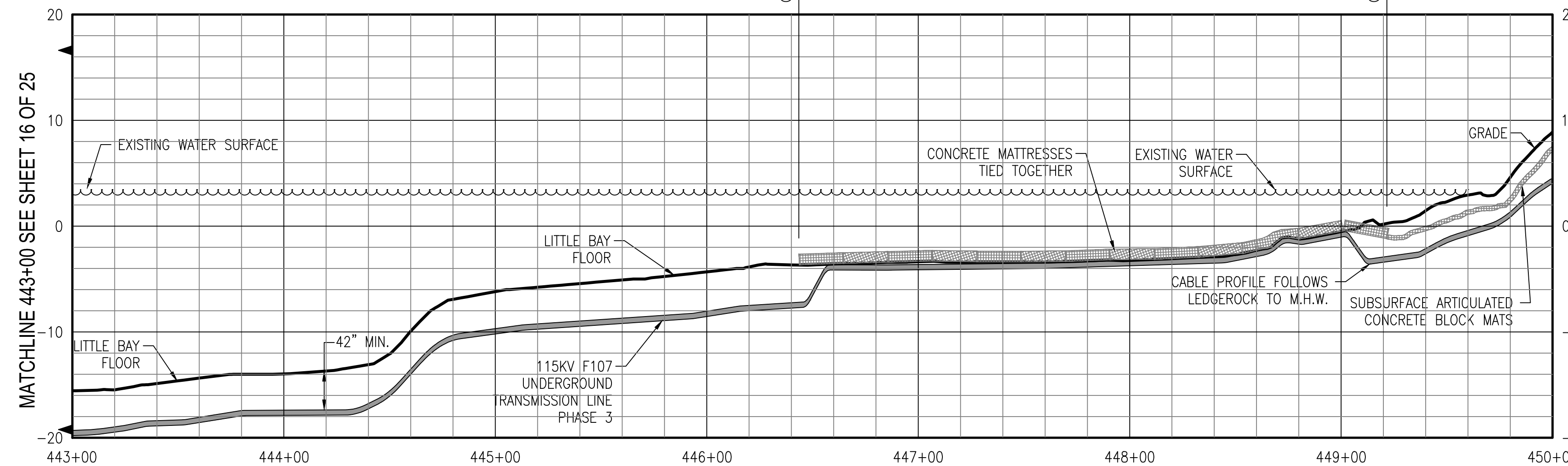
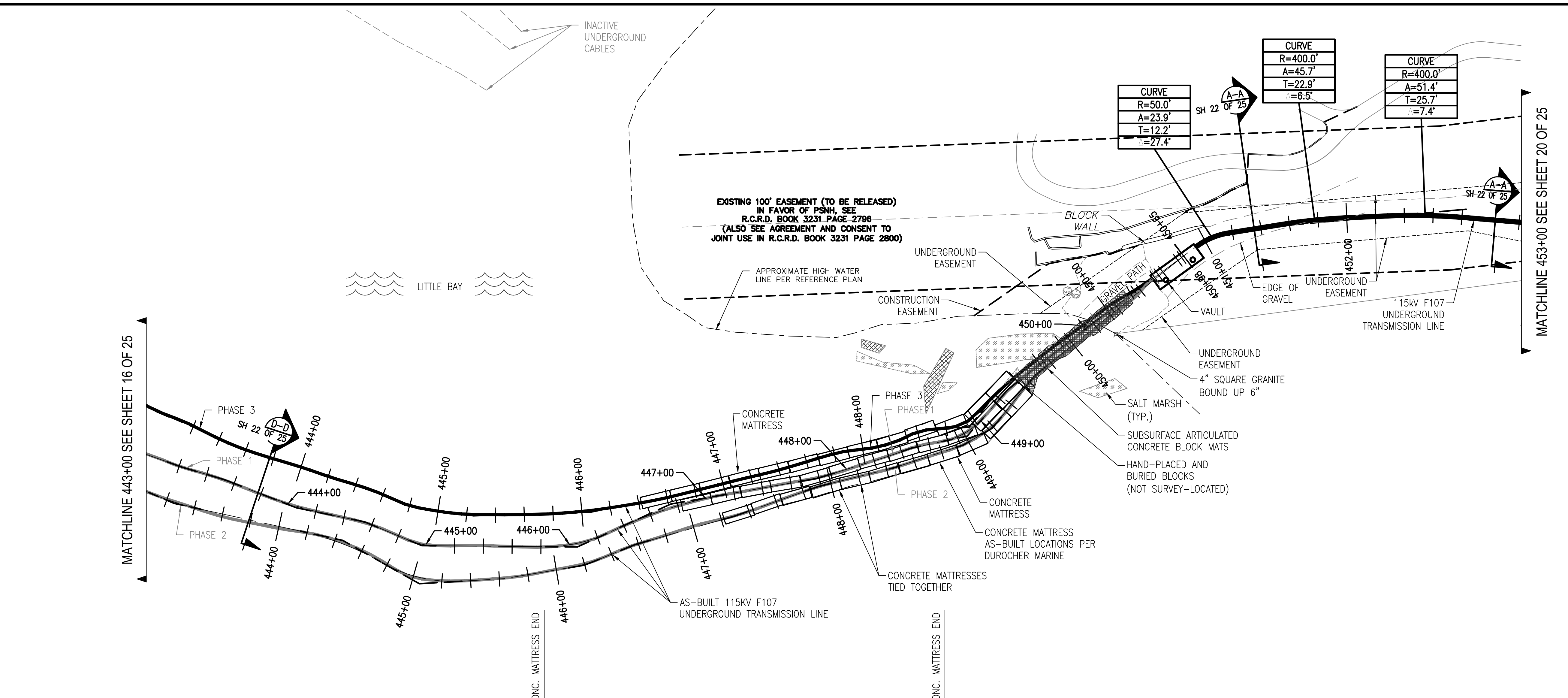
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NO.	REVISION	DATE	BY	CHKD	APPRV.
1	ISSUE FOR CONSTRUCTION	05/11/19	TSG	TSG	TSG
2	REV. FOR FIELD CHANGE	05/23/19	TSG	TSG	TSG
3	REV. FOR FIELD CHANGE	05/23/19	TSG	TSG	TSG
4	ISSUE FOR RECORD	06/11/20	PCW	PCW	TSG

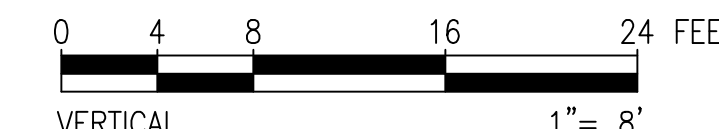
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 ENERGY

CIRCUIT F107 115KV
 UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'
 SHEET 18 OF 25
 F10743003



MATCHLINE 443+00 SEE SHEET 16 OF 25

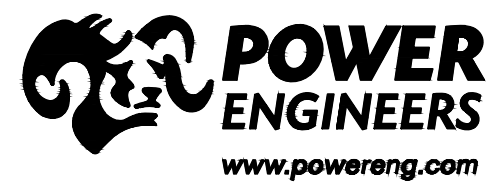
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NO.	REVISION	DATE	BY	CHKD	APPRV.
1	ISSUE FOR CONSTRUCTION	05/11/19	RSB	RSB	RSB
2	REV. NEW TRANSMISSION LINE PROFILE	05/22/19	RSB	RSB	RSB
3	REV. NEW TRANSMISSION LINE PROFILE	05/22/19	RSB	RSB	RSB
4	ISSUE FOR RECORD	05/22/19	PCW	RSB	RSB

EVERSOURCE
ENERGY

T 4

CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW

DATE: 5/7/2019

SCALE: H: 1"=40', V: 1"=8'

DES: RSB
 CHK: TSG
 DRW: RSB
 APR: TSG

TOWN: NEWINGTON

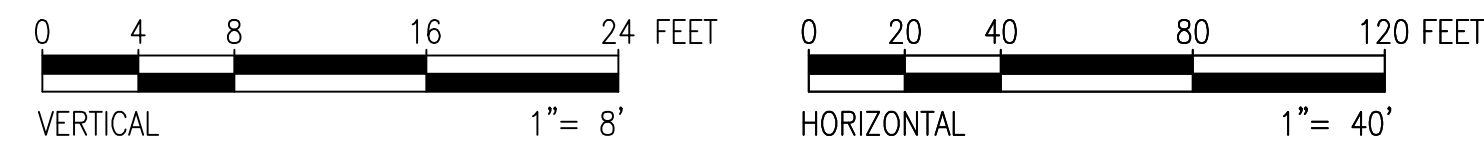
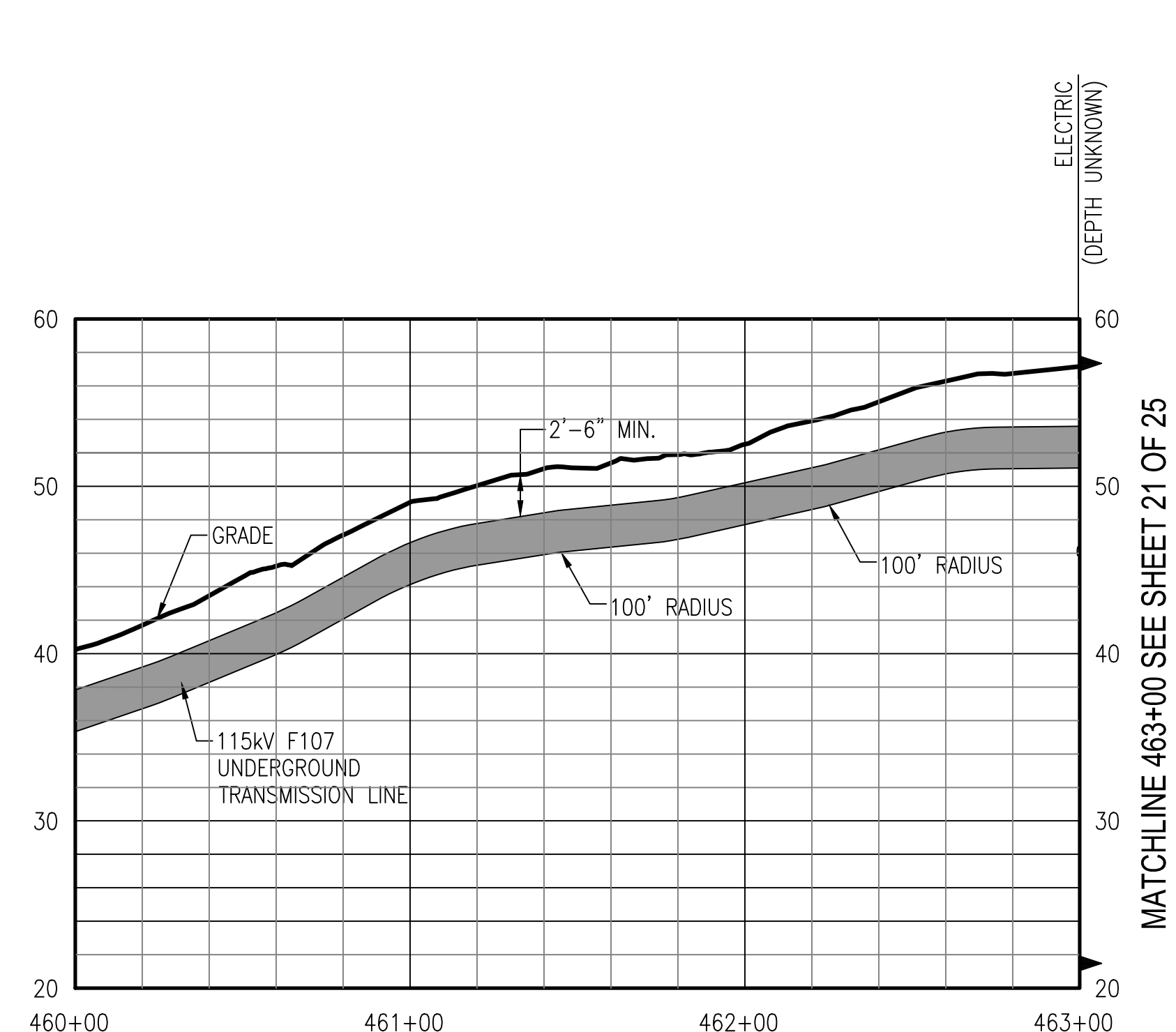
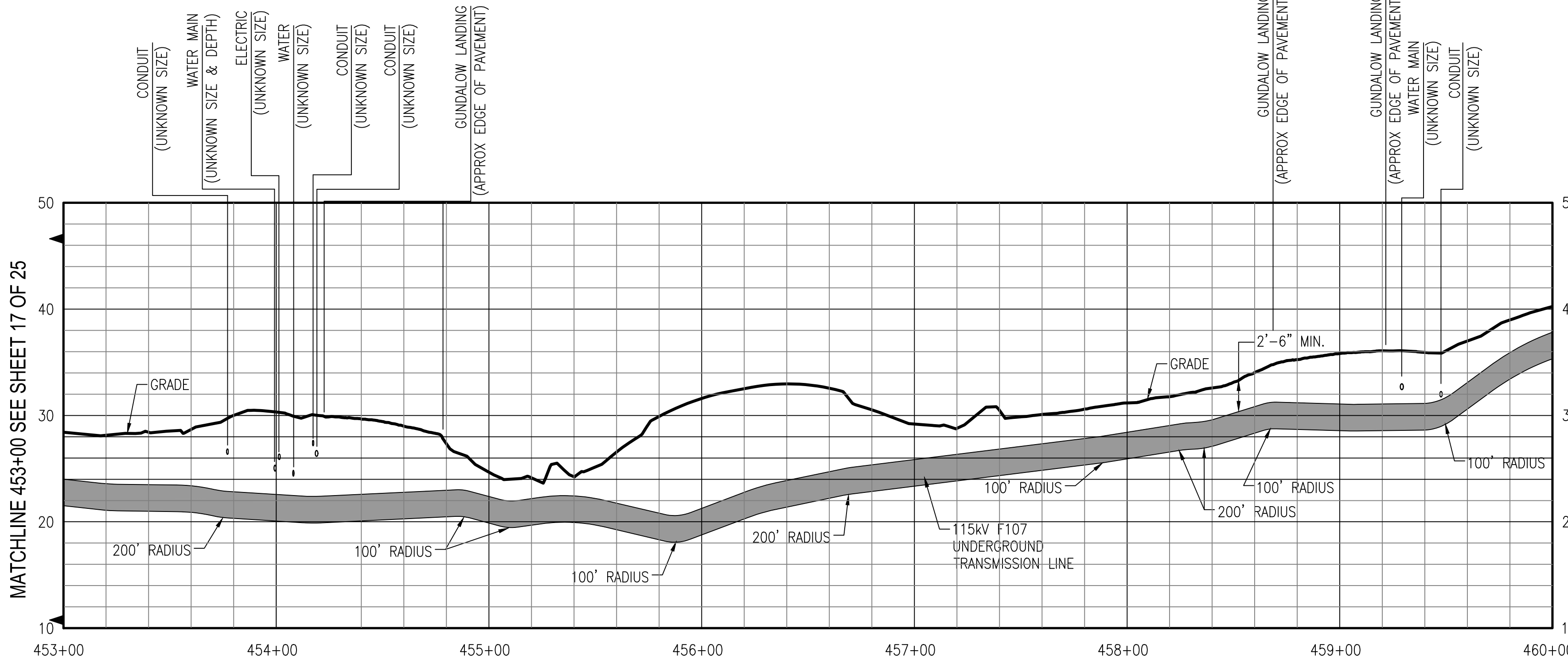
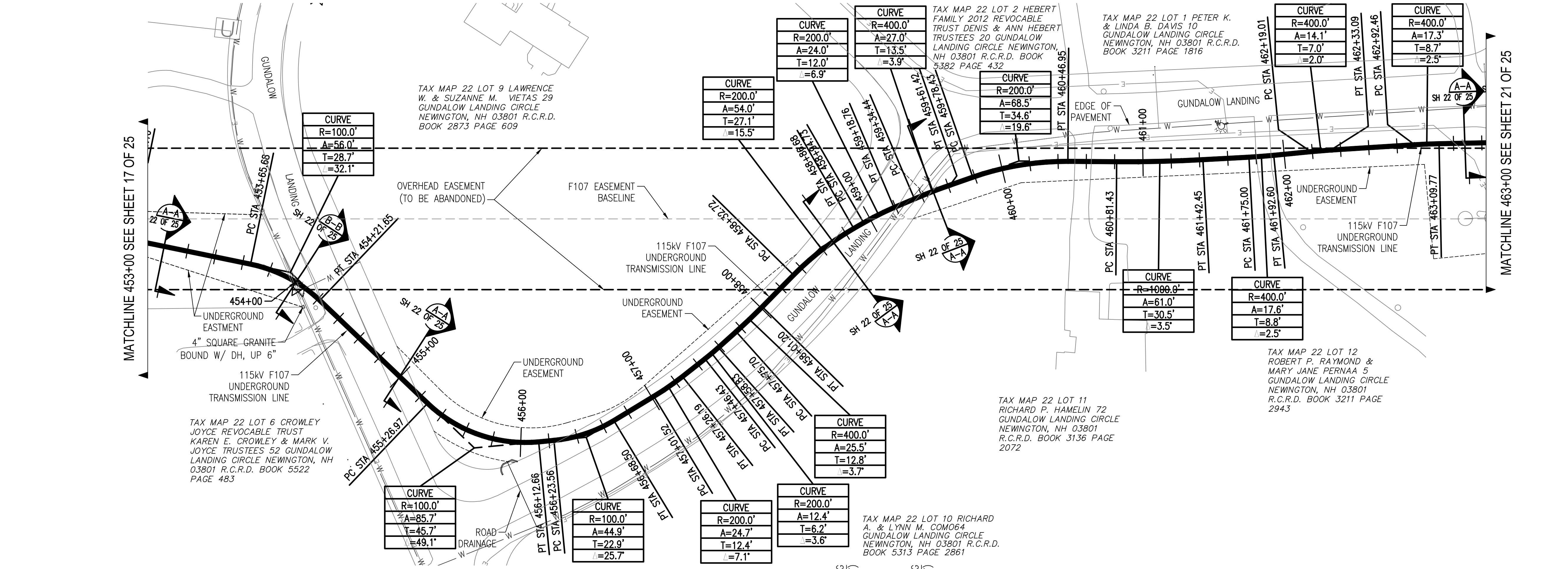
TRANSMISSION LINE: LINE

DISCIPLINE/SHT NO. LINE

MILE NO: 8 & 9

SHEET 19 OF 25

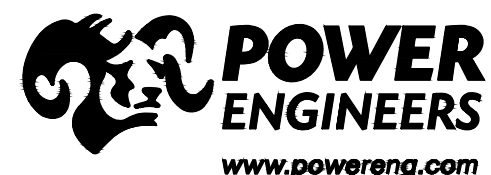
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NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUE FOR CONSTRUCTION	05/11/19	TSJ	TSJ	TSJ
2	REVISED SHARED	05/22/19	TSJ	TSJ	TSJ
3	REVISED SHARED	05/22/19	TSJ	TSJ	TSJ
4	ISSUE FOR RECORD	05/21/20	PCW	TSJ	TSJ

EVERSOURCE
ENERGY

CIRCUIT F107 115kV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'



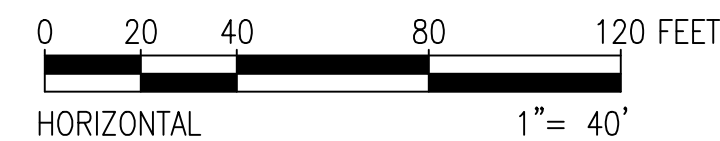
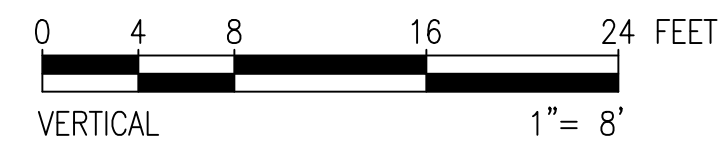
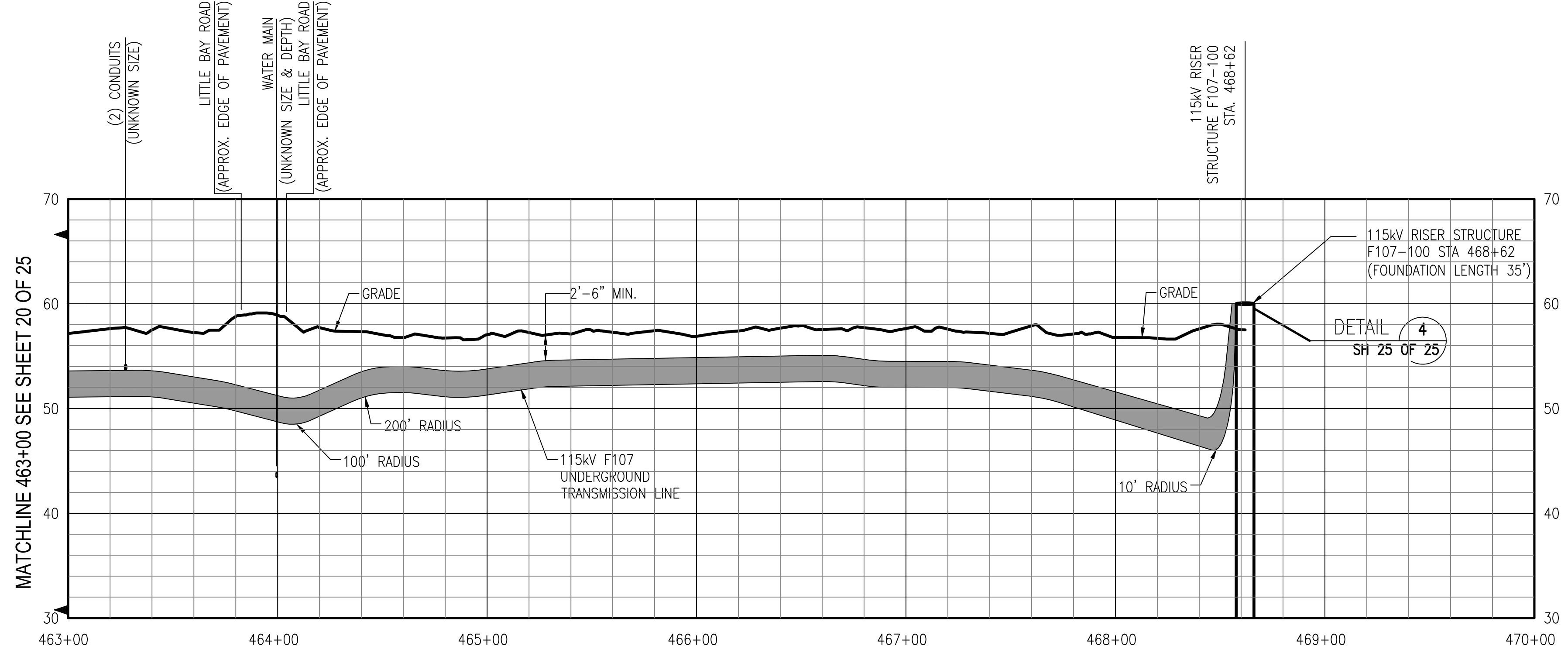
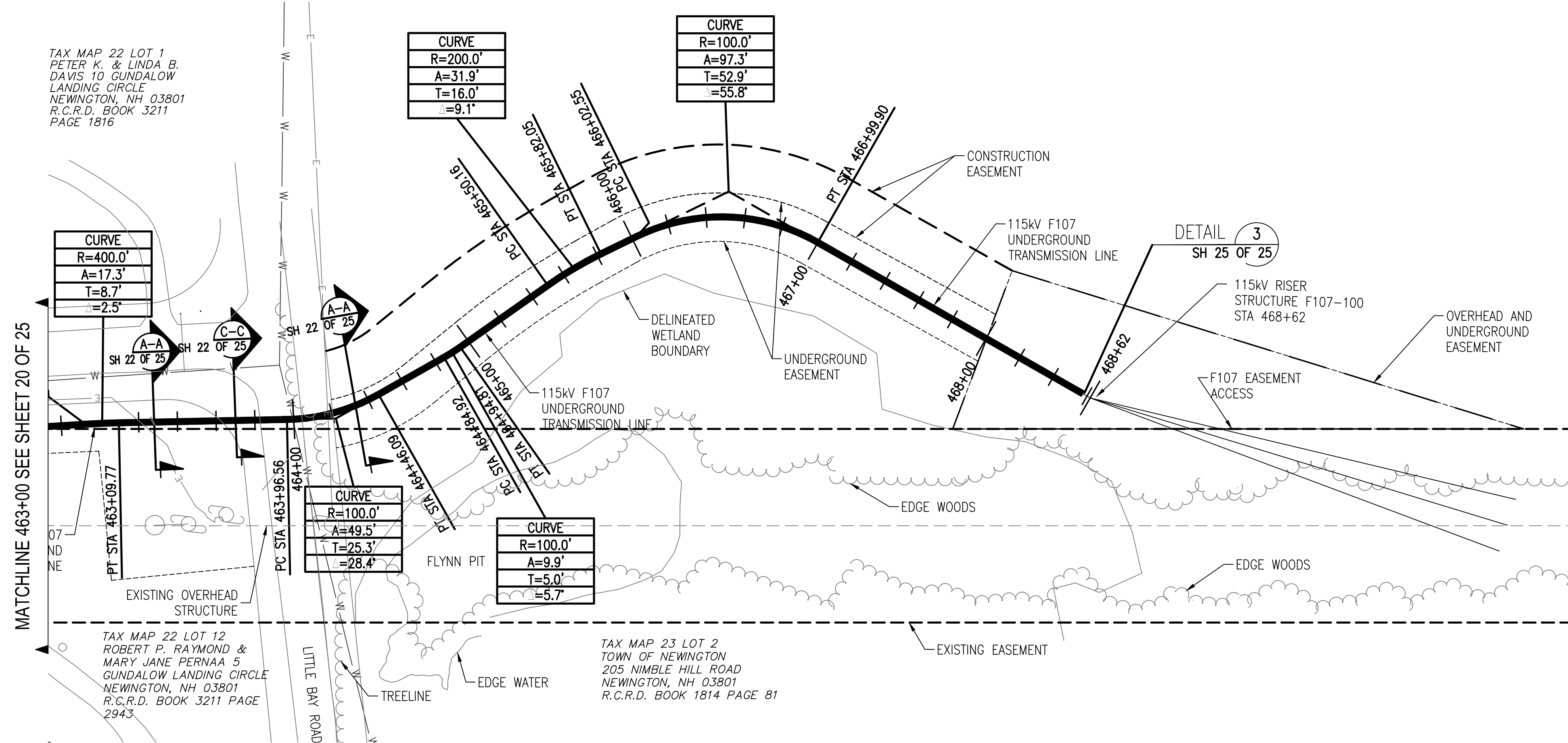
TAX MAP 22 LOT 1
PETER K. & LINDA B.
DAVIS 10 GUNDALOW
LANDING CIRCLE
NEWINGTON, NH 03801
R.C.R.D. BOOK 3211
PAGE 1816

TAX MAP 22 LOT 12
ROBERT P. RAYMOND &
MARY JANE PERNA 5
GUNDALOW LANDING CIRCLE
NEWINGTON, NH 03801
R.C.R.D. BOOK 3211 PAGE
2943

TAX MAP 23 LOT 2
TOWN OF NEWINGTON
205 NIMBLE HILL ROAD
NEWINGTON, NH 03801
R.C.R.D. BOOK 1814 PAGE 81

MATCHLINE 463+00 SEE SHEET 20 OF 25

MATCHLINE 463+00 SEE SHEET 20 OF 25



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NO.	REVISION	DATE	BY	CHKD	APPRV.
1	ISSUE FOR CONSTRUCTION	07/12/2019	EPN-9466	SA-1-19	TSG
2	REVISED TRANSMISSION ALIGNMENT	05-23-19	REG	TSG	TSG
3	REVISED TRANSMISSION ALIGNMENT	05-23-19	REG	TSG	TSG
4	ISSUE FOR RECORD	07/12/2019	EPN-9466	SA-1-20	TSG

EVERSOURCE
ENERGY

CIRCUIT F107 115kV
UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE VIEW
DATE: 3/7/2019
SCALE: H. 1"=40', V. 1"=8'

T 4

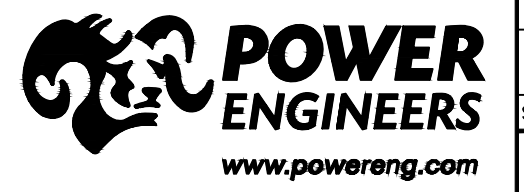
DES. REG. CHK. TSG
DRW. REG. APR. TSG

TOWN:
NEWINGTON

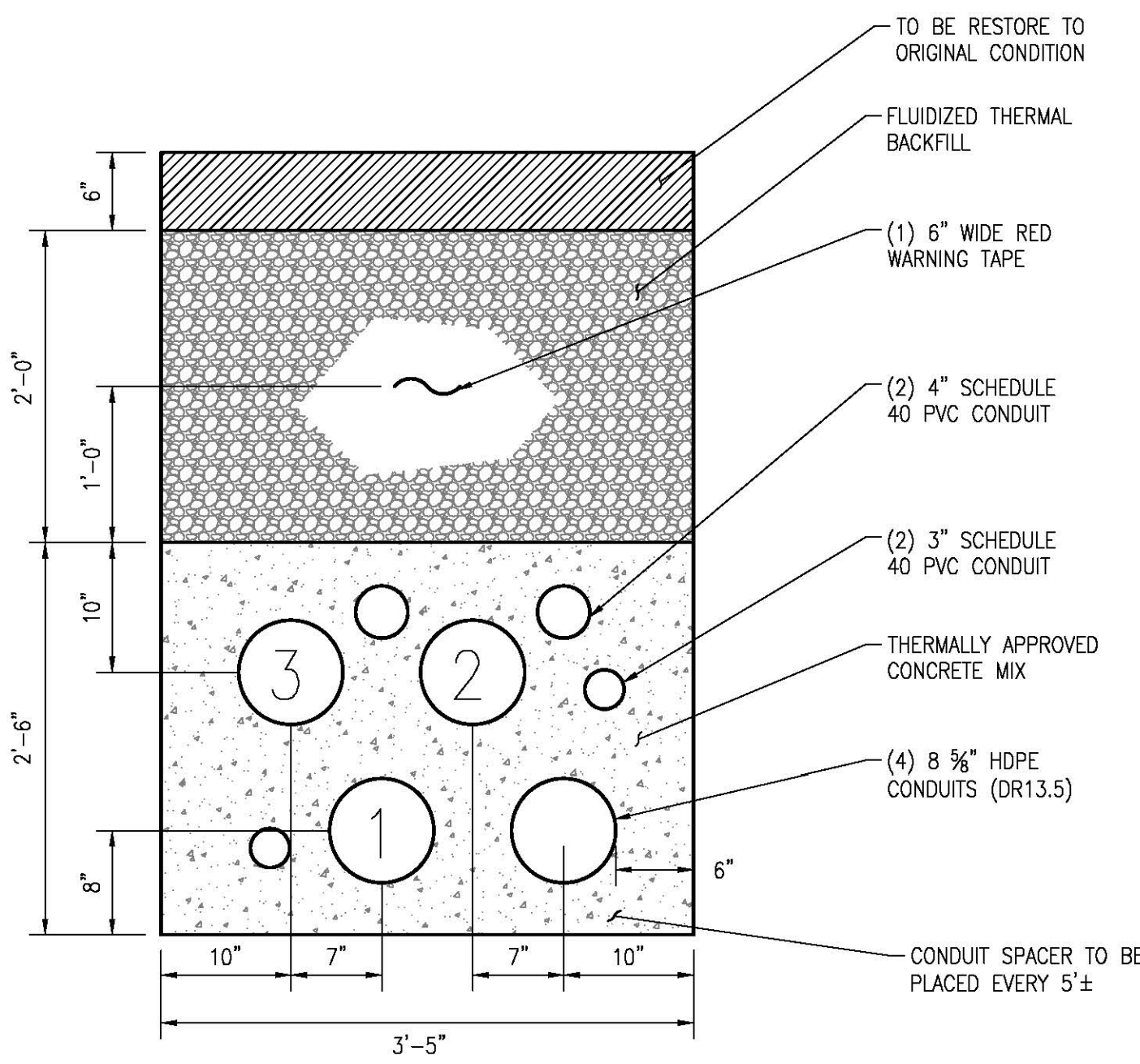
TRANSMISSION LINE:
LINE

DISCIPLINE/SHT NO.
LINE

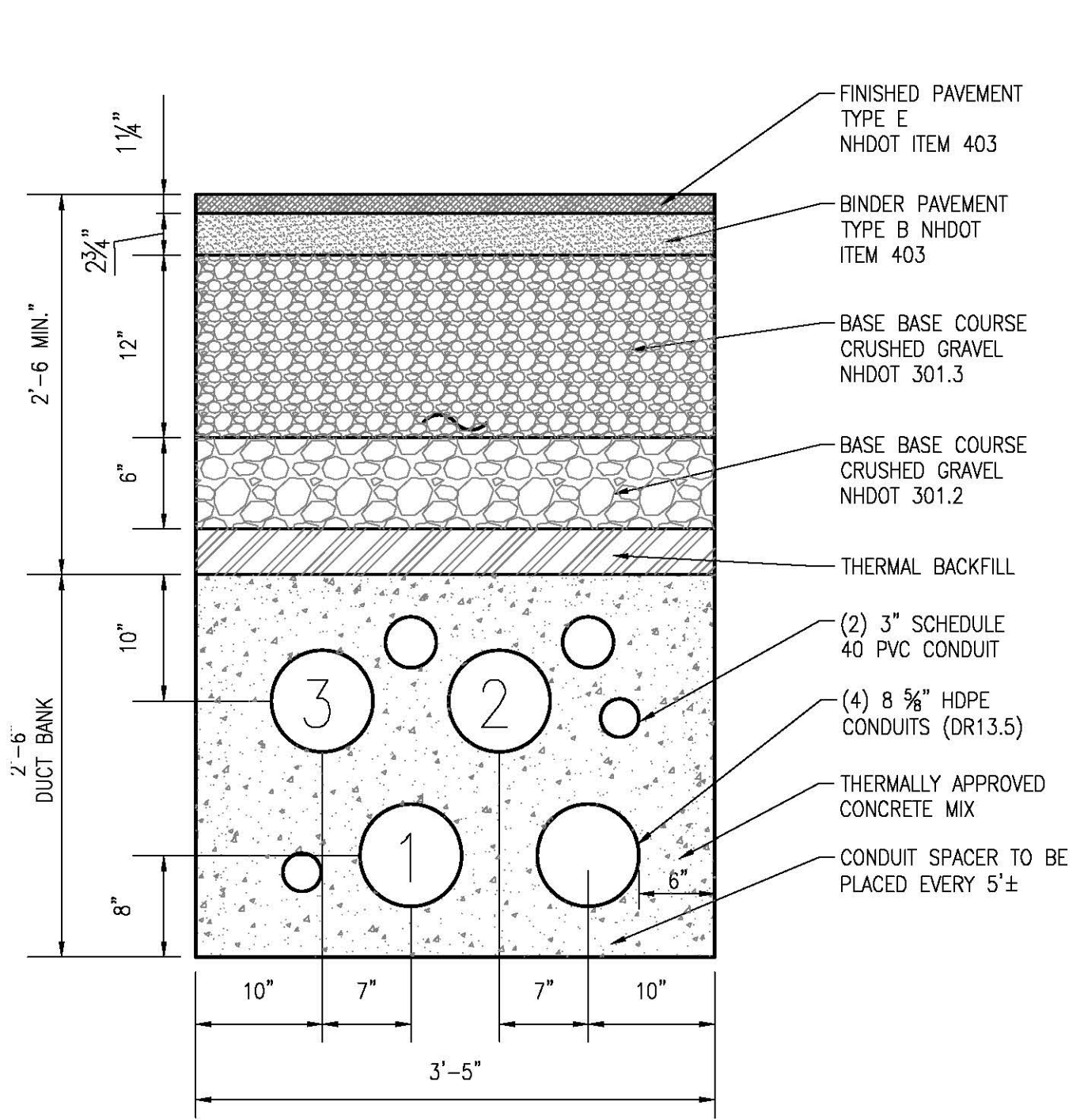
SHEET 21 OF 25
F10743003



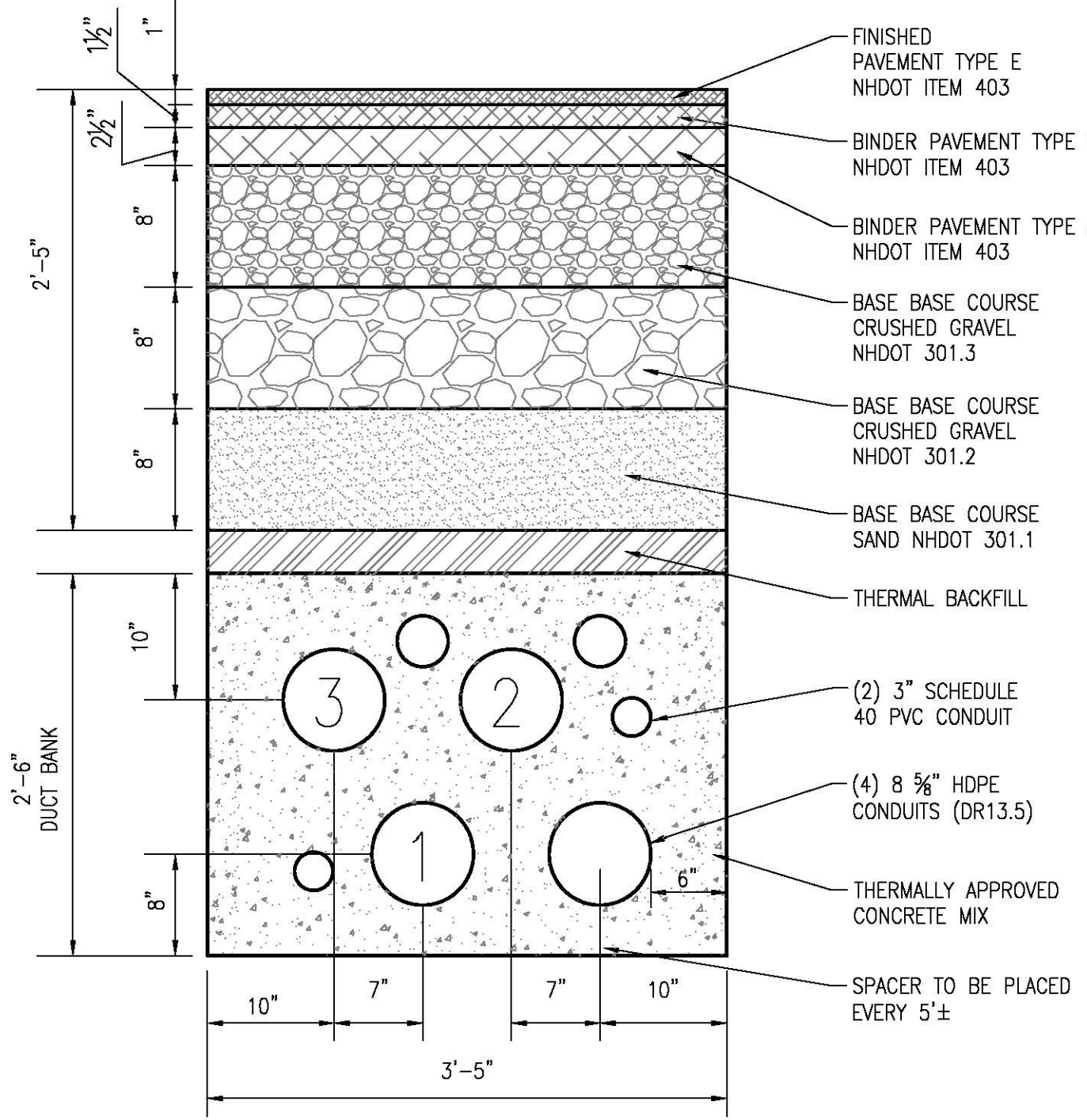
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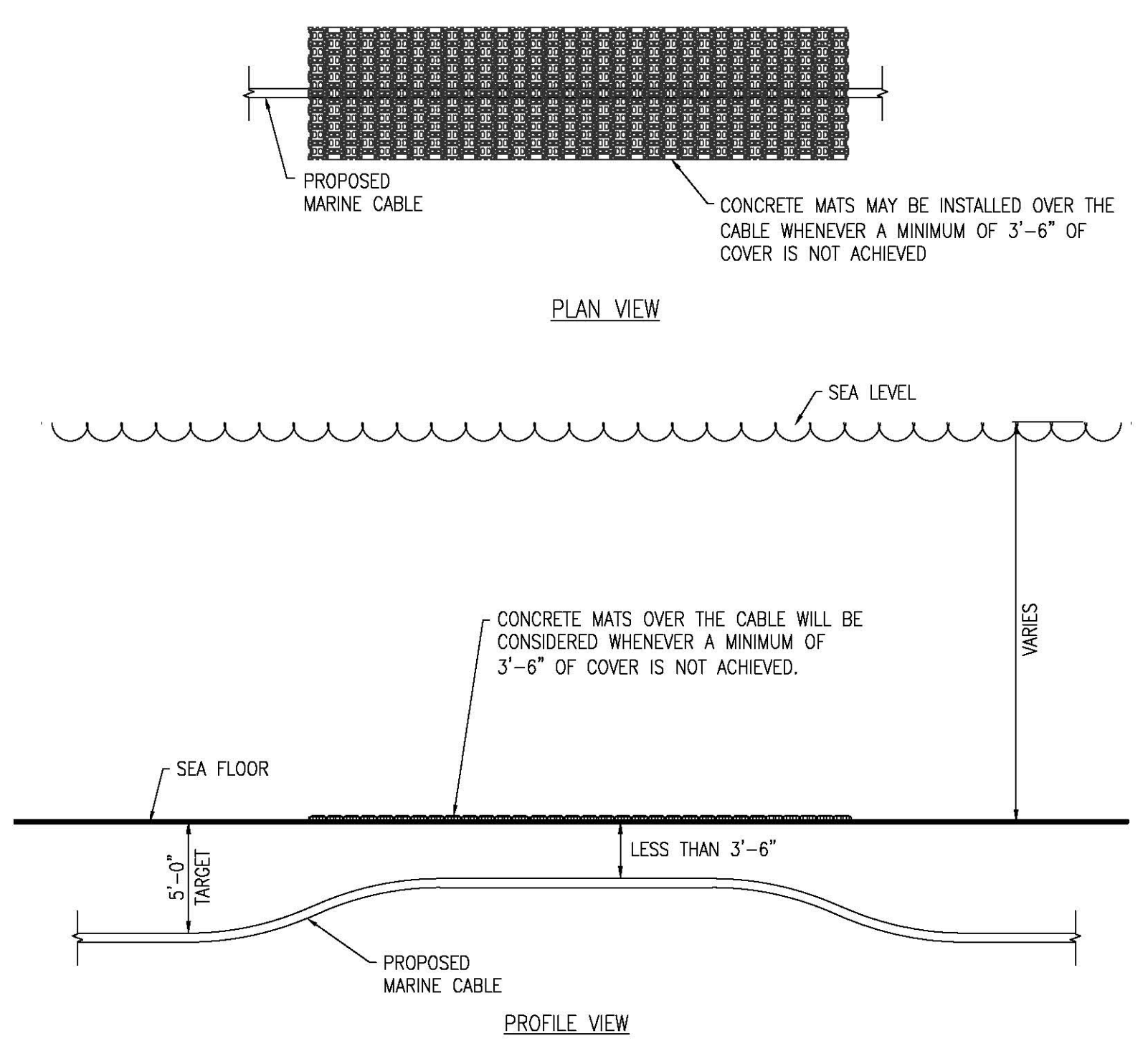
TYP TRENCH DETAIL SECTION A-A
SCALE N.T.S. SH 22 OF 25



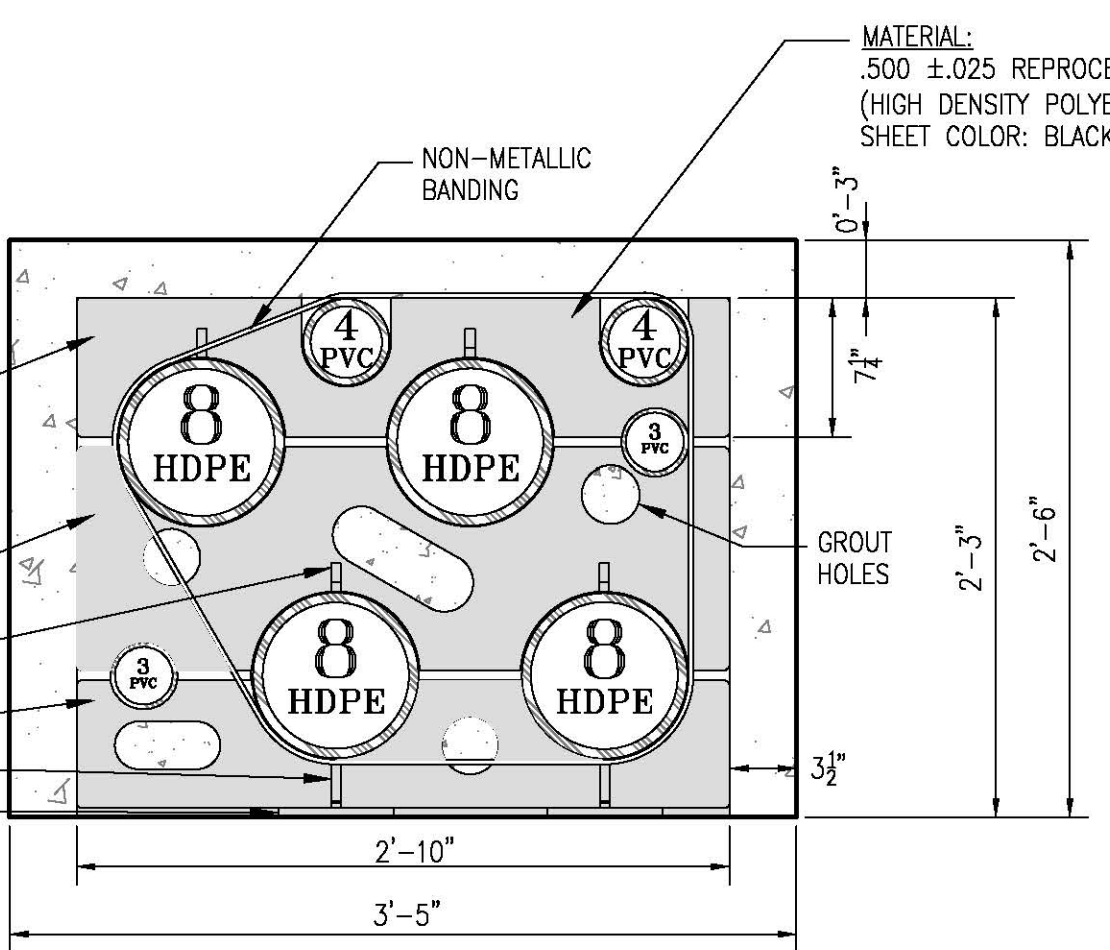
RESIDENTIAL ROAD CROSSING SECTION B-B
SCALE N.T.S. SH 22 OF 25



NON RESIDENTIAL ROAD CROSSING SECTION C-C
SCALE N.T.S. SH 22 OF 25

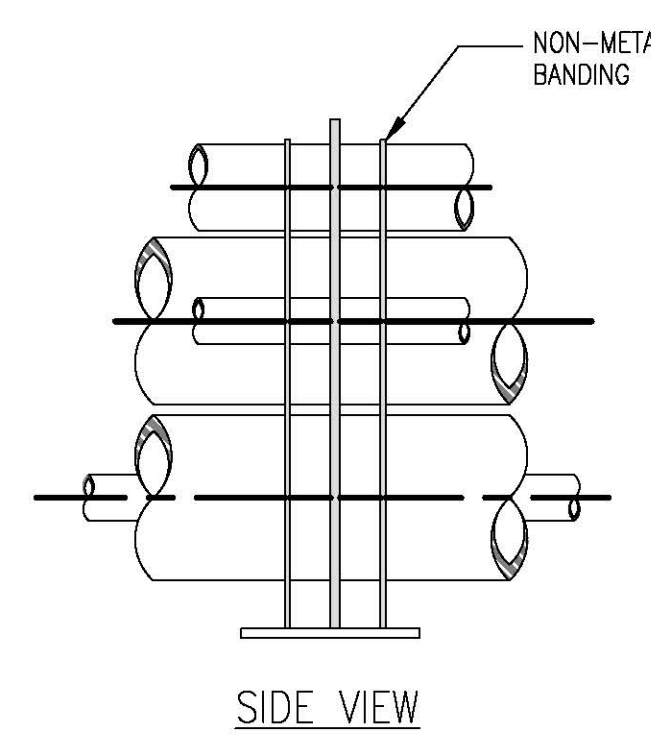


PROFILE VIEW

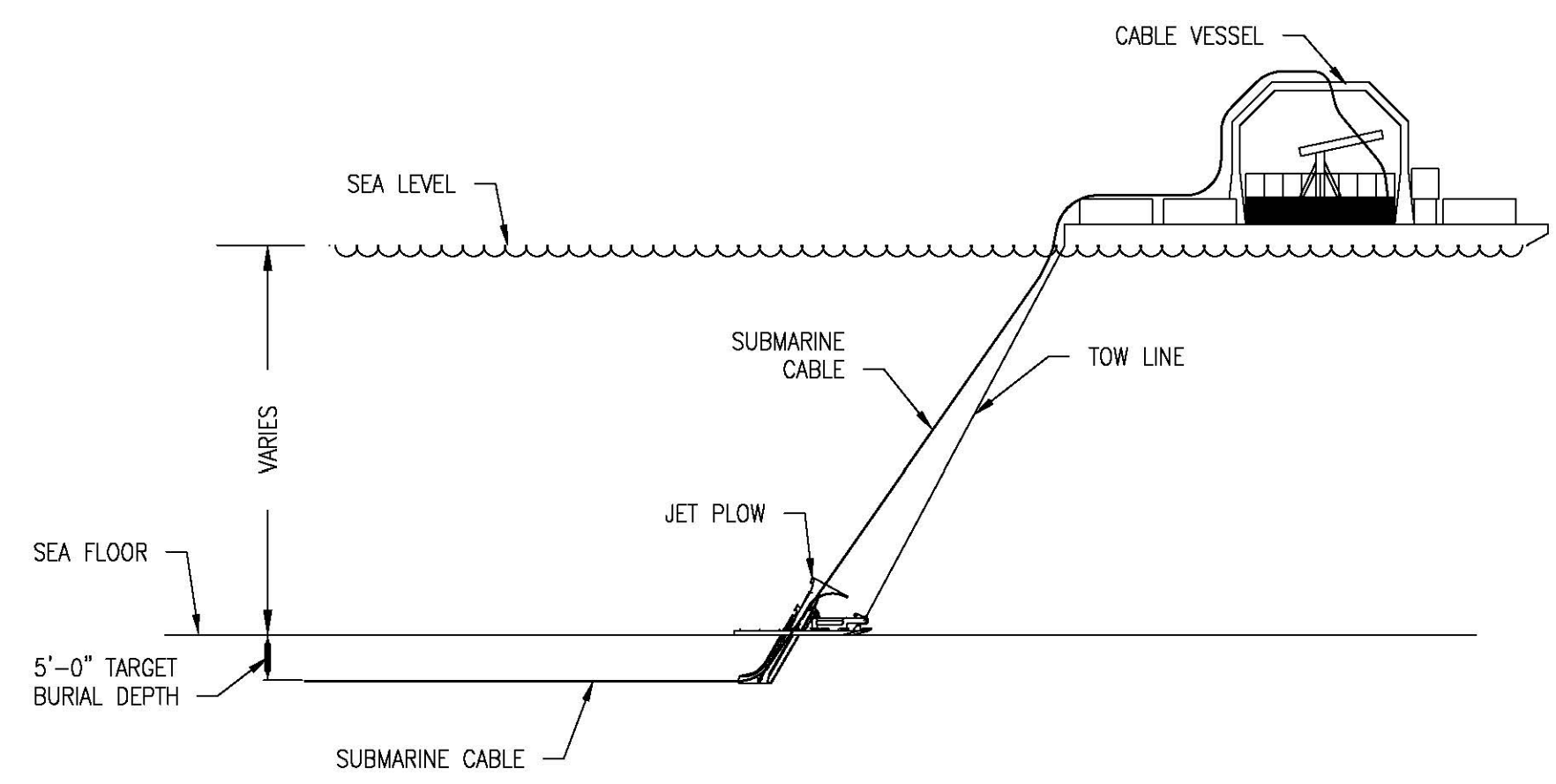


FRONT VIEW
ADVANCED PRODUCTS AND SPACERS, LLC SPACER ARRANGEMENT
SCALE N.T.S. SH 22 OF 25

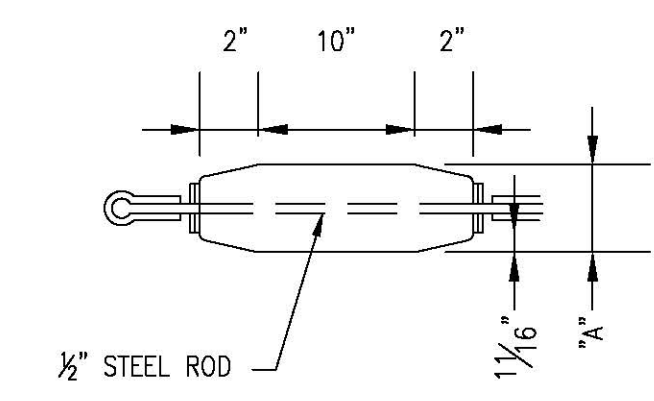
- NOTES:
1. STAGGER BELL ENDS.
 2. AVOID STANDING ON CONDUIT.
 3. ALL TRENCH DETAILS AND PHASING SHOWN AS LOOKING AHEAD STATIONS.
 4. ALL DUCT SPACERS ARE ADVANCE PRODUCTS & SYSTEMS, LLC.
 5. SEPARATION SHOWN IS TYPICAL SPACING IN TRENCH EXCAVATION AREAS. SEE PLAN DETAILS FOR SEPARATION AT OTHER LOCATIONS.



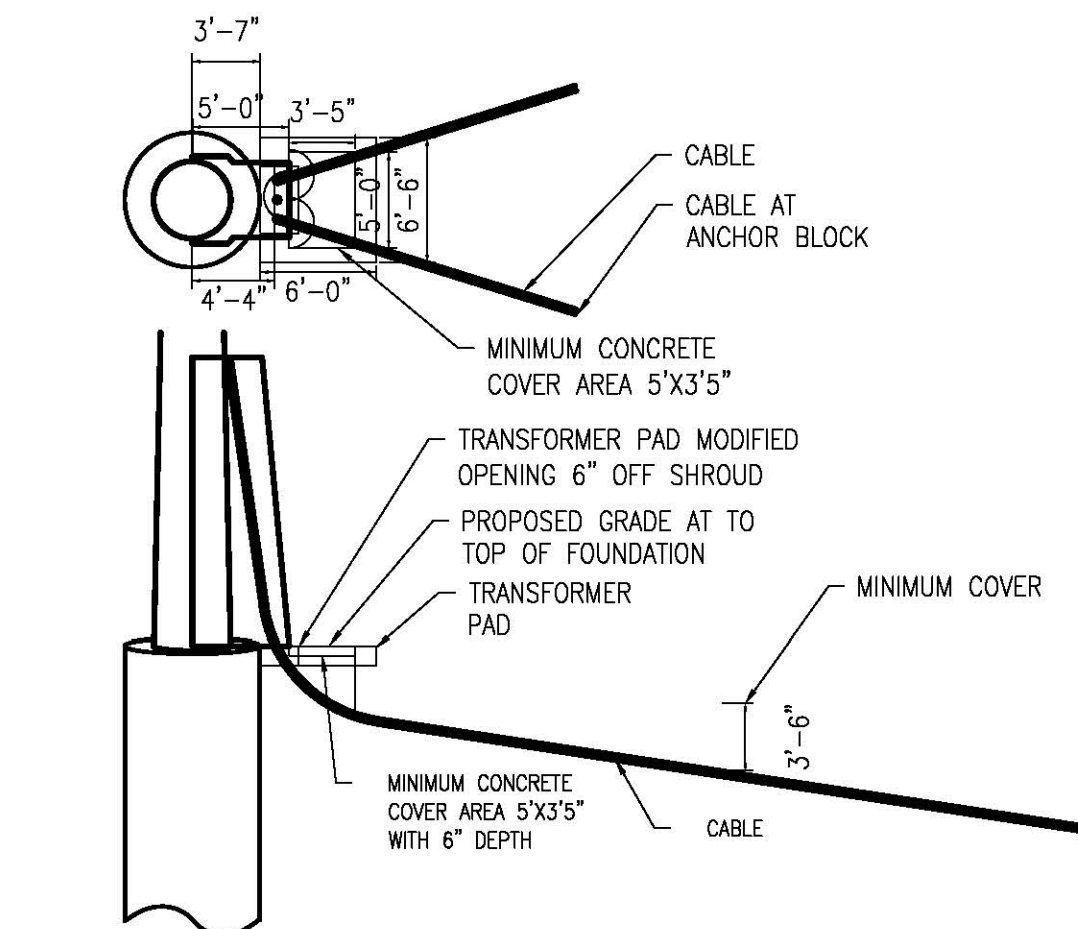
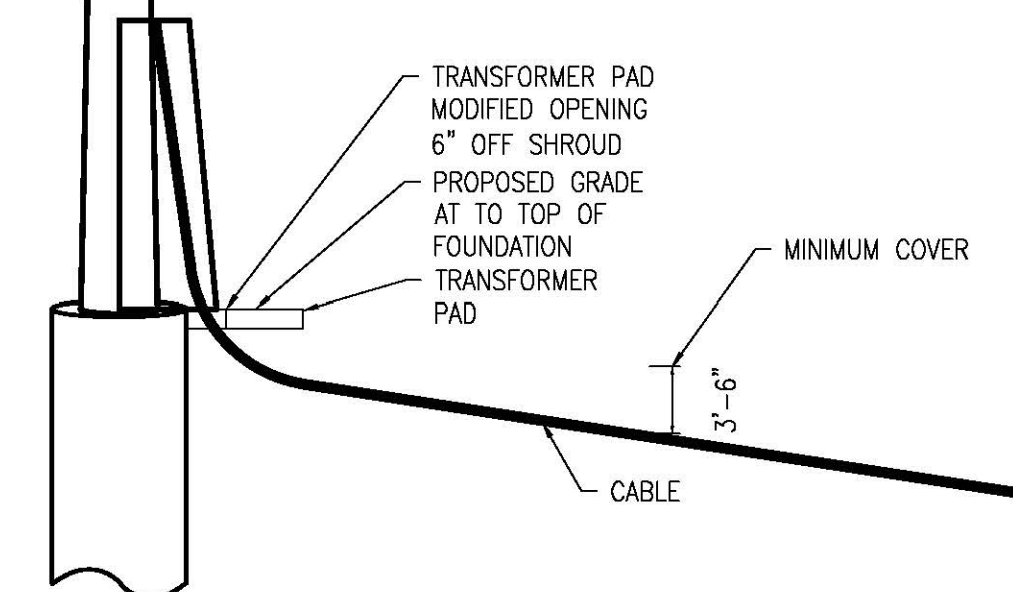
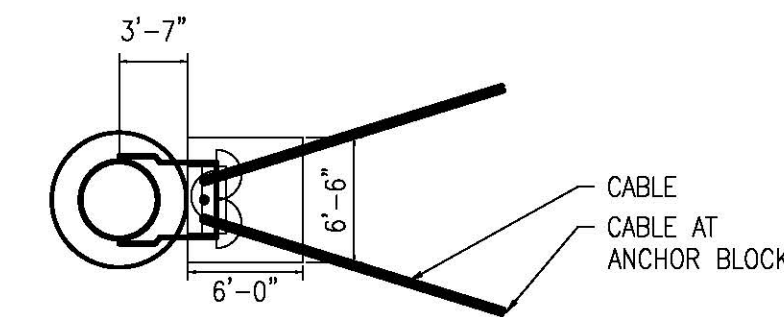
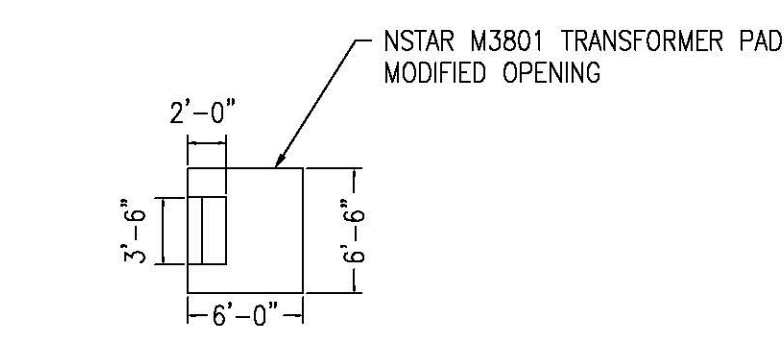
SIDE VIEW



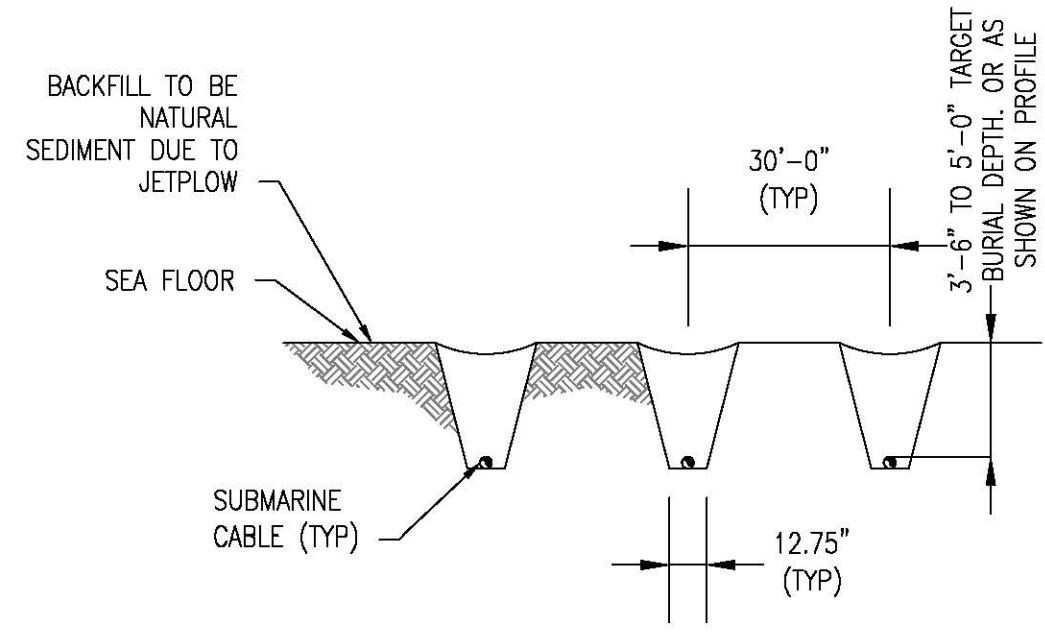
TYP SUBMARINE ELEVATION DETAIL
SCALE N.T.S. SH 22 OF 25



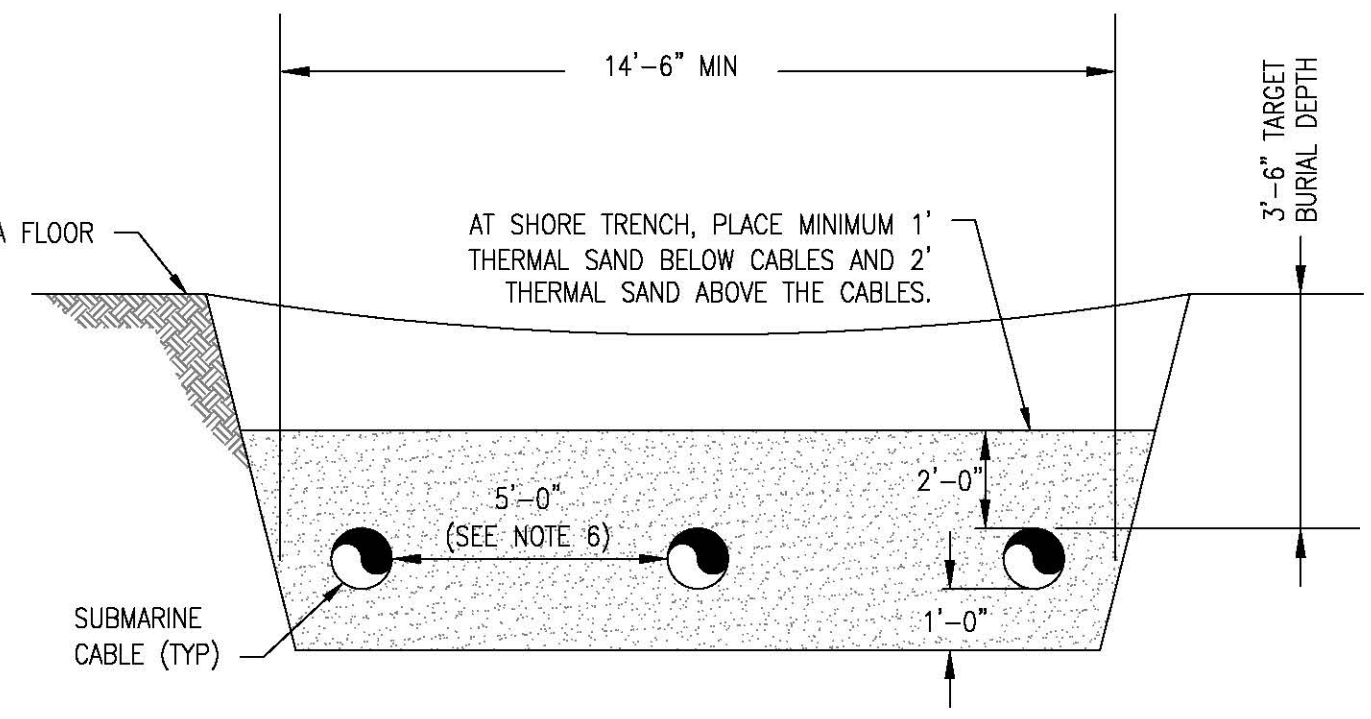
TYP MANDREL DETAIL
SCALE N.T.S. SH 22 OF 25



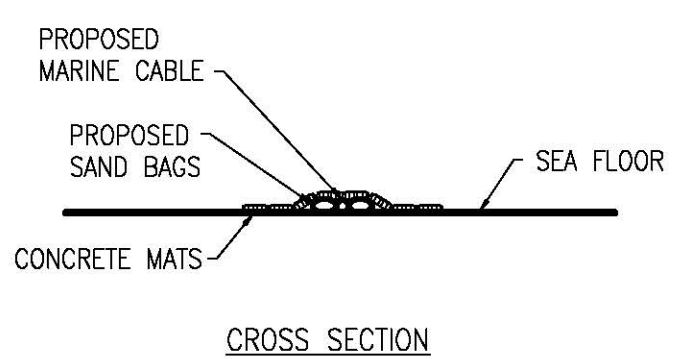
F107-99 RISER STRUCTURE DETAIL
SCALE N.T.S. SH 22 OF 25



TYP SUBMARINE JET PLOW SECTION
SCALE N.T.S. SH 22 OF 25



TYP SUBMARINE TRENCH SECTION
SCALE N.T.S. SH 22 OF 25



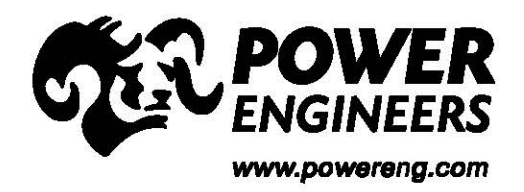
CROSS SECTION

CONCRETE MATTING FOR SHALLOW PENETRATION
SCALE N.T.S. SH 22 OF 25

NO.	REVISION	DATE	BY	CHKD	APPRD
1	ISSUE FOR CONSTRUCTION	05-11-18	TRG	TRG	TRG
2	ISSUE FOR RECORD	05-29-20	TRG	TRG	TRG
3	ISSUE FOR RECORD	06-11-20	TRG	TRG	TRG
4	ISSUE FOR RECORD	06-11-20	TRG	TRG	TRG

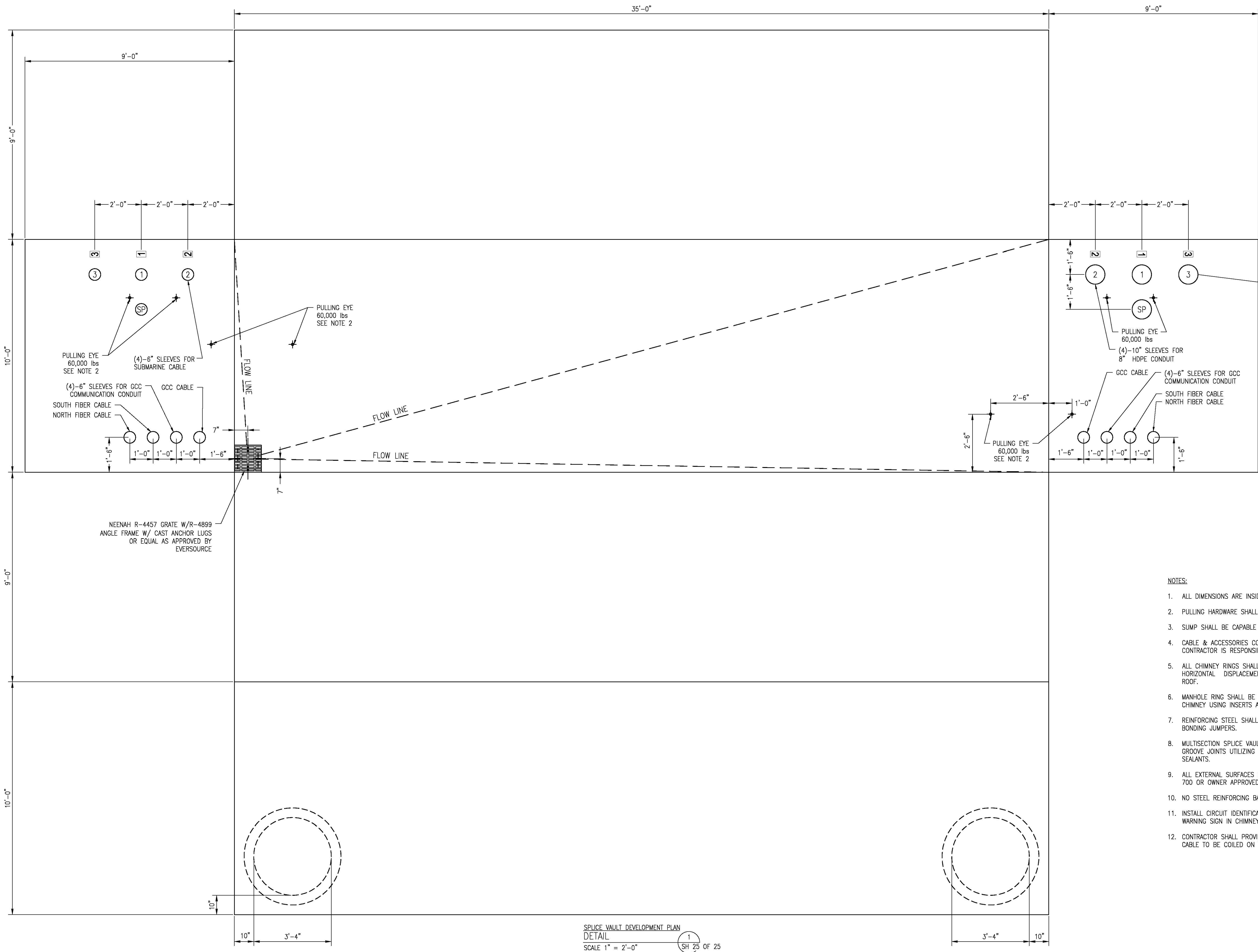
EVERSOURCE ENERGY

T 4
 DATE: 3/1/2019
 SHEET 22 OF 25
 F10743003
 DISCIPLINE/SHT NO.
 MILE NO: 8 & 9
 TRANSMISSION LINE
 DURHAM & NEWINGTON
 TOWN
 DES: RED CHM/KTS
 DRW: RED APR: TRG



PRINT DRAWING TO SCALE ON 22"x34" SHEET

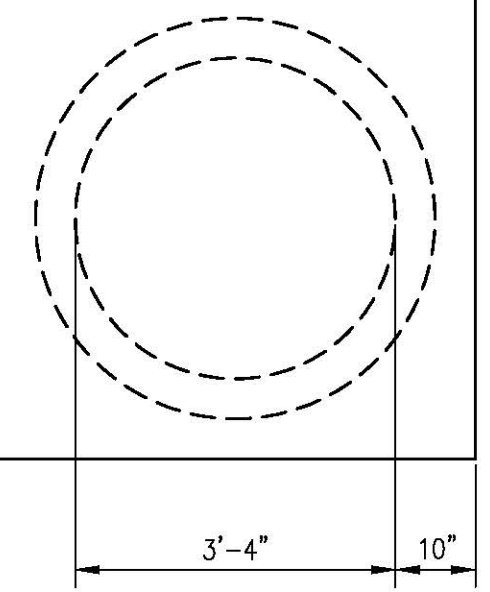
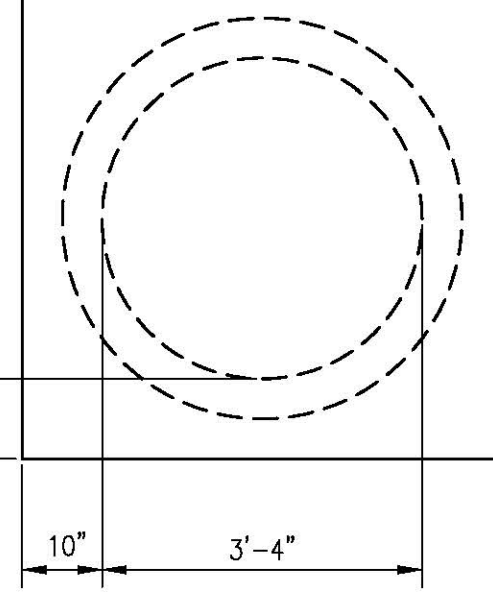
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 ES VER. 11/2015



DETAIL 2
 SH 25 OF 25

NEENAH R-4457 GRATE W/R-4899
 ANGLE FRAME W/ CAST ANCHOR LUGS
 OR EQUAL AS APPROVED BY
 EVERSOURCE

- NOTES:
1. ALL DIMENSIONS ARE INSIDE DIMENSIONS.
 2. PULLING HARDWARE SHALL BE GOOD FOR 60,000lbs OF TENSION, MINIMUM.
 3. SUMP SHALL BE CAPABLE OF HANDLING SUMP PUMP, MINIMUM 4" DEEP.
 4. CABLE & ACCESSORIES CONTRACTOR TO FIELD VERIFY ACTUAL SPLICE VAULT DEPTHS. CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY & ENTRY/EXIT REQUIREMENTS.
 5. ALL CHIMNEY RINGS SHALL BE MORTARED OR OTHERWISE "KEYED" TO PREVENT HORIZONTAL DISPLACEMENT AND SHALL BE SECURELY MORTARED TO SPLICE VAULT ROOF.
 6. MANHOLE RING SHALL BE SECURELY FASTENED TO THE SPLICE VAULT ROOF OR CHIMNEY USING INSERTS AND BOLTS OR OTHER MEANS WITH PRIOR APPROVAL.
 7. REINFORCING STEEL SHALL BE BONDED TO 500kcmil SOFT DRAWN BARE COPPER BONDING JUMPERS.
 8. MULTISECTION SPLICE VAULTS SHALL INCORPORATE EITHER SHIPLAP OR TONGUE AND GROOVE JOINTS UTILIZING APPROPRIATE SILICONE, POLYMERIC OR ELASTOMERIC SEALANTS.
 9. ALL EXTERNAL SURFACES OF VAULT SHALL BE SEALED USING SONNEDORN HYDROCID 700 OR OWNER APPROVED EQUIVALENT.
 10. NO STEEL REINFORCING BAR MAY ENCAPSULATE ANY INDIVIDUAL CONDUIT.
 11. INSTALL CIRCUIT IDENTIFICATION LABELS ON VAULT WALL AND INSTALL DANGER WARNING SIGN IN CHIMNEY.
 12. CONTRACTOR SHALL PROVIDE RACKING FOR 50' OF DYNAMIC TEMPERATURE SENSING CABLE TO BE COILED ON THE WALL OPPOSITE THE CABLE SPLICES.



SPLICE VAULT DEVELOPMENT PLAN
 DETAIL
 SCALE 1" = 2'-0"
 SH 25 OF 25

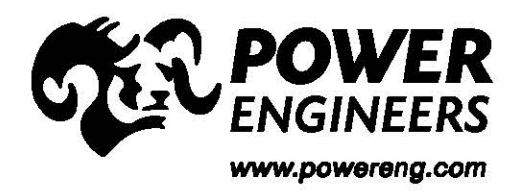
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2	REVISED DRAWING	05/22/19	EPH	EPH	EPH
3	REVISED DRAWING	05/22/19	EPH	EPH	EPH
4	ISSUE FOR RECORD	07/24/2019	EPH	EPH	EPH

EVERSOURCE
 ENERGY

T 4

CIRCUIT F107 115KV
 UNDERGROUND TRANSMISSION LINE
 SPLICE VAULT DETAIL SHEET
 SCALE: N.T.S.
 DATE: 3/1/2019

DES: REO | CHK: TSP |
 DRAW: REO | APR: TSP
 TOWN:
 NEWINGTON
 TRANSMISSION LINE:
LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO.
 SHEET 23 OF 25
F10743003



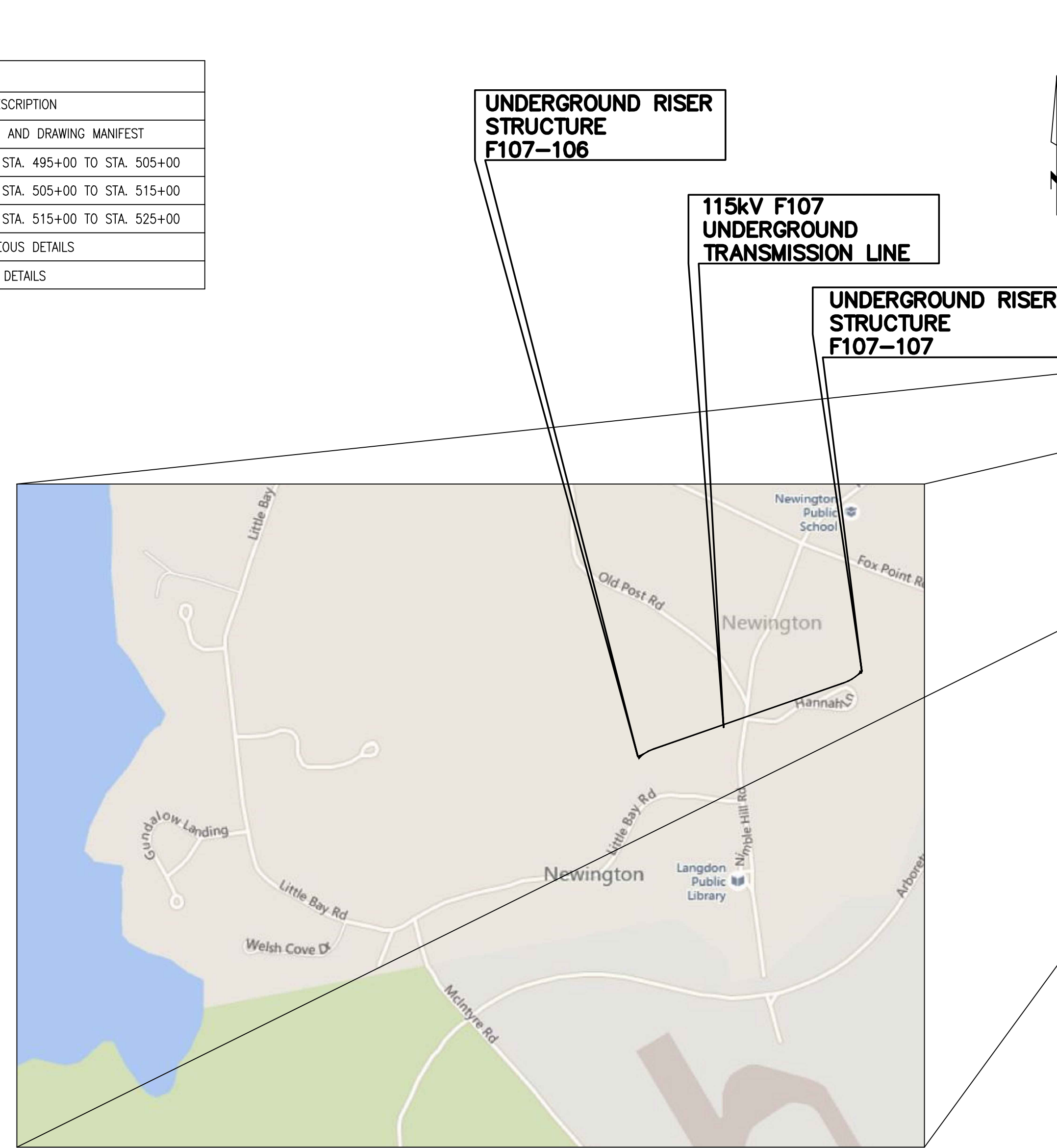
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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE DBA EVERSOURCE ENERGY SEACOAST RELIABILITY PROJECT, CIRCUIT F107 NEWINGTON HISTORIC DISTRICT, NEWINGTON 115 kV UNDERGROUND TRANSMISSION LINE

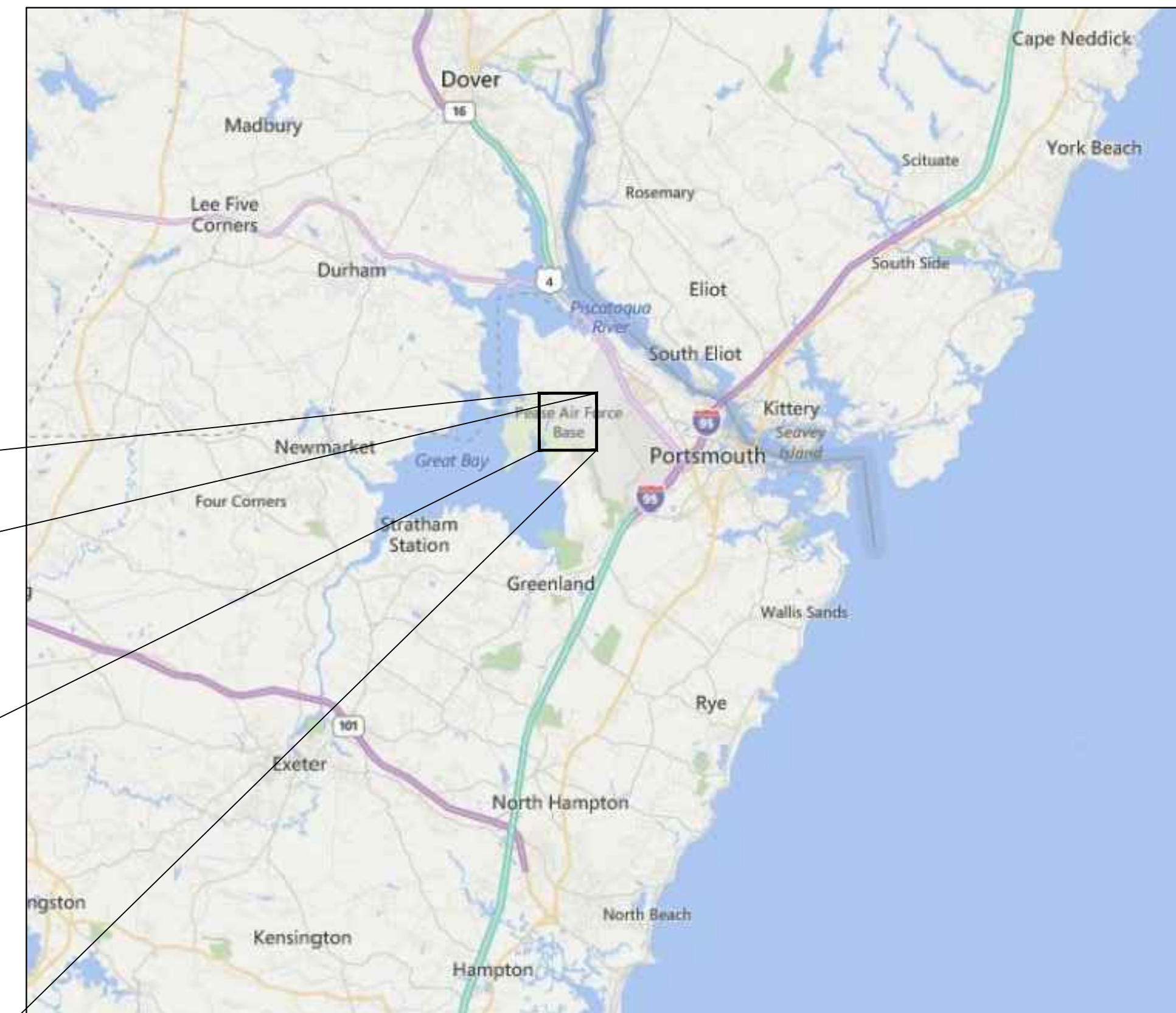
DRAWING MANIFEST	
DRAWING NO.	TITLE/DESCRIPTION
SHEET 1 OF 6	COVER SHEET, LEGEND, AND DRAWING MANIFEST
SHEET 2 OF 6	PLAN AND PROFILE DRAWING STA. 495+00 TO STA. 505+00
SHEET 3 OF 6	PLAN AND PROFILE DRAWING STA. 505+00 TO STA. 515+00
SHEET 4 OF 6	PLAN AND PROFILE DRAWING STA. 515+00 TO STA. 525+00
SHEET 5 OF 6	MISCELLANEOUS DETAILS
SHEET 6 OF 6	RISER DETAILS

LEGEND

⊕	ELECTRICAL STRUCTURE
⊙	LAMP POST
⊠	WOODEN POST
⊗	IRRIGATION CONTROL VALVE
⊕	ELECTRIC BOX
⊙	TELECOMMUNICATION BOX
⊠	UTILITY BOX
⊗	CATCH BASIN
⊕	CONIFEROUS TREE
⊙	DECIDUOUS TREE
⊠	CONCRETE
⊗	RIP RAP
⊕	LANDSCAPED AREA
⊙	CRUSHED STONE
⊠	SURFACE LEDGE
TYP.	TYPICAL
RET.	RETAINING
EP	EDGE OF PAVEMENT
CONC.	CONCRETE
~	TREE LINE
~	SHRUB LINE
---	PROPERTY LINES
---	DRAIN LINE
---	OVERHEAD ELECTRIC
---	UNDERGROUND ELECTRIC
---	WATER LINE
---	TELEPHONE LINE
---	SEWER
---	STEAM LINE
---	PROPOSED DRAIN
---	EASMENT
---	STONE WALL



VICINITY MAP
NOT TO SCALE



AREA MAP
NOT TO SCALE

General Notes

1. THE PLANIMETRICS, UTILITIES AND NATURAL FEATURES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. EXISTING CONDITIONS BY SURVEY BY DOUCET. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK AND OTHER UTILITY LOCATING ACTIVITIES. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG, 811 OR 1-800-344-7233.
2. VERTICAL DATUM IS BASED ON NAVD88, HORIZONTAL DATUM IS BASED ON NEW HAMPSHIRE STATE PLANE IN US FEET, NAD83
3. VERTICAL LOCATION OF SUBSURFACE UTILITY LINES ARE BASED ON ASSUMED DEPTHS USING BEST AVAILABLE INFORMATION AND MAY VARY FROM THE ACTUAL VERTICAL LOCATIONS. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
4. DETAIL DESIGN MAY BE OPTIMIZED TO REFLECT ACTUAL CONDITIONS WITH OWNER REVIEW AND ACCEPTANCE.
5. ALL WORK SHALL BE PERFORMED WITHIN THE DESIGNATED PROPERTIES AS NOTED ON THE DRAWINGS.
6. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AS DETERMINED BY OWNER AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, AND THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
7. CIVIL CONTRACTOR SHALL HAUL AWAY ALL UNUSED EXCAVATED MATERIAL TO PERMITTED SOIL DISPOSAL SITE PROJECT SPECIFICATIONS, AND THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
8. CIVIL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY & ALL UTILITIES AND FACILITIES (INCLUDING THOSE NOT SHOWN ON THE DRAWINGS) DAMAGED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, APPLICABLE UTILITY SPECIFICATION, FEDERAL, STATE AND LOCAL REQUIREMENTS.
9. ABANDONED UTILITIES SHALL BE CUT AND CAPPED AS NECESSARY WITH UTILITY OWNER REVIEW AND ACCEPTANCE. ABANDONED GAS LINES SHALL NOT BE CUT.
10. CIVIL CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING BEST MANAGEMENT PRACTICES FOR CONTROLLING EROSION AND SEDIMENTATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
11. CIVIL CONTRACTOR SHALL RESTORE GRADE TO PRE-CONSTRUCTION ELEVATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
12. PROPOSED DUCT BANK SHALL MAINTAIN A MINIMUM CLEARANCE OF 2'-6" BETWEEN THE CONCRETE ENCASEMENT AND GRADE, OR AS SHOWN ON THE DRAWINGS.
13. ALL VERTICAL RADII ARE 500' AND ALL HORIZONTAL RADII ARE 500' UNLESS OTHERWISE NOTED ON THE DRAWINGS.
14. PROPOSED DUCT BANK SHALL MAINTAIN MINIMUM HORIZONTAL CLEARANCE OF 24" PER UTRM AND A MINIMUM VERTICAL CLEARANCE OF 24" PER UTRM TO EXISTING UTILITIES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY OWNER OF ALL UNDOCUMENTED UTILITIES DISCOVERED DURING CONSTRUCTION THAT IMPEDE ON THE REQUIRED CLEARANCES TO THE PROPOSED DUCT BANK.
15. PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. CONTRACTOR IS RESPONSIBLE FOR ENSURING PRINTED COPIES ARE THE LATEST REVISION.
16. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND APPLICABLE EVERSOURCE UTRM REQUIREMENTS.
17. CONSTRUCTION SHALL BE IN ACCORDANCE WITH MEMORANDUM OF UNDERSTANDINGS BETWEEN OVERHEAD AND UNDERGROUND LINES. SEE DRAWING F10713401 FOR PHASING OF F107 LINE.
18. SEE DRAWINGS F10743001 AND F10705026 FOR CONNECTION DETAILS BETWEEN THE OVERHEAD AND UNDERGROUND LINES. SEE DRAWING F10713401 FOR PHASING OF F107 LINE.
19. SEE ENVIRONMENTAL CONSTRUCTION MAPS AND DETAILS FOR ENVIRONMENTAL CONTROL AND ACCESS.
20. ALL CONSTRUCTION SHOULD BE IN ACCORDANCE WITH NH SITE EVALUATION COMMITTEE REQUIREMENTS AND CONDITIONS.
21. ALL WORK SHALL BE COMPLETED WITHIN THE EVERSOURCE PERMANENT AND CONSTRUCTION EASEMENT AREAS AS SHOWN ON THE PLANS.

PSNH (PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE)
DESIGN ENGINEER: JOSEPH SPERRY

PSNH (PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE)
WORK ORDER NUMBER: 1127641
EPN-8466

POWER ENGINEERS
PROJECT NUMBER: 133007

POWER ENGINEERS
PROJECT ENGINEER: TODD GOYETTE

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TOLL FREE
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NO.	REVISION	DATE	DRWN	CHKD	ISS
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2	ISSUE FOR RECORD 1127641 EPN 8466	2-28-20	PM	RED	ISS

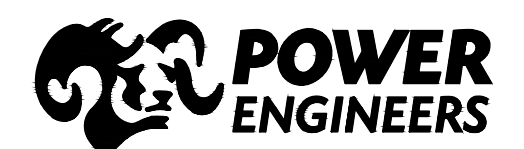
CIRCUIT F107 115kV
UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE COVER
SCALE: N.T.S.

DES: RED | CHK: TSG
DRW: RED | APR: TSG

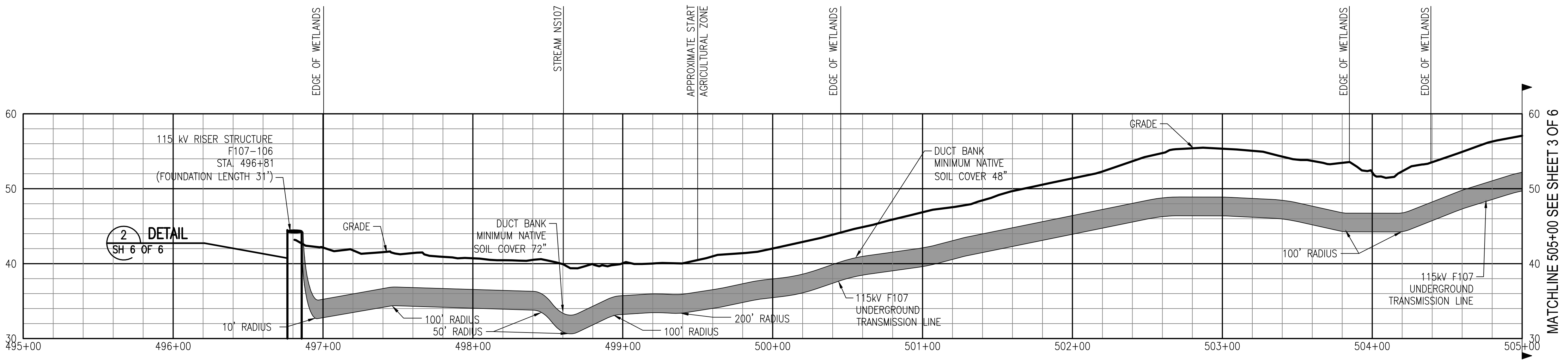
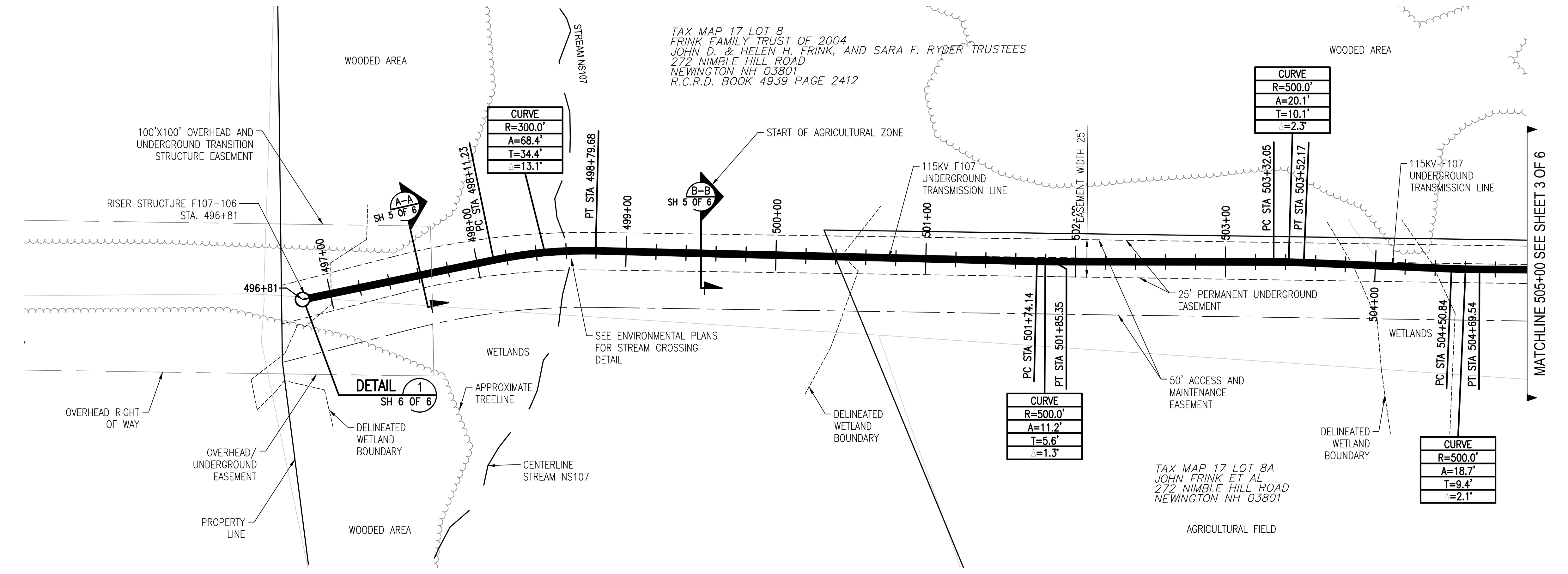
TOWN: NEWINGTON
TRANSMISSION LINE:
LINE

MILE NO: 1.0
DISCIPLINE/SHT NO.

SHEET 1 OF 6
F10743004



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Notes

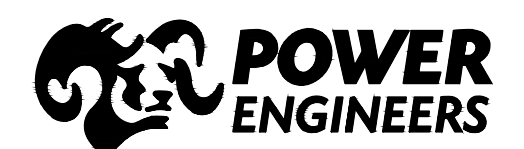
1. NATIVE SOILS IN AGRICULTURAL SECTION THAT WILL BE REUSED SHALL BE SEPARATED AS DIRECTED BY A CERTIFIED SOIL SCIENTIST AND PLACED BACK IN ACCORDANCE WITH THAT REPRESENTATIVE. SOILS TO BE REUSED SHALL BE MAINTAINED.



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 1-888-344-7233



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TRANSMISSION LINE: LINE			
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DISCIPLINE/SHT NO.			
SHEET 2 OF 6			
F10743004			

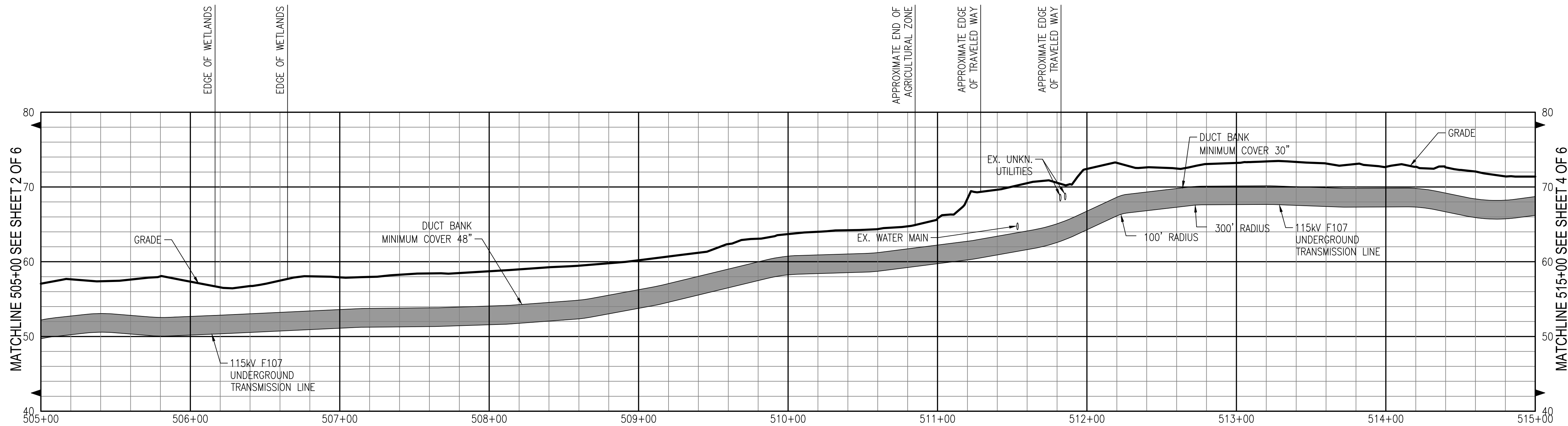
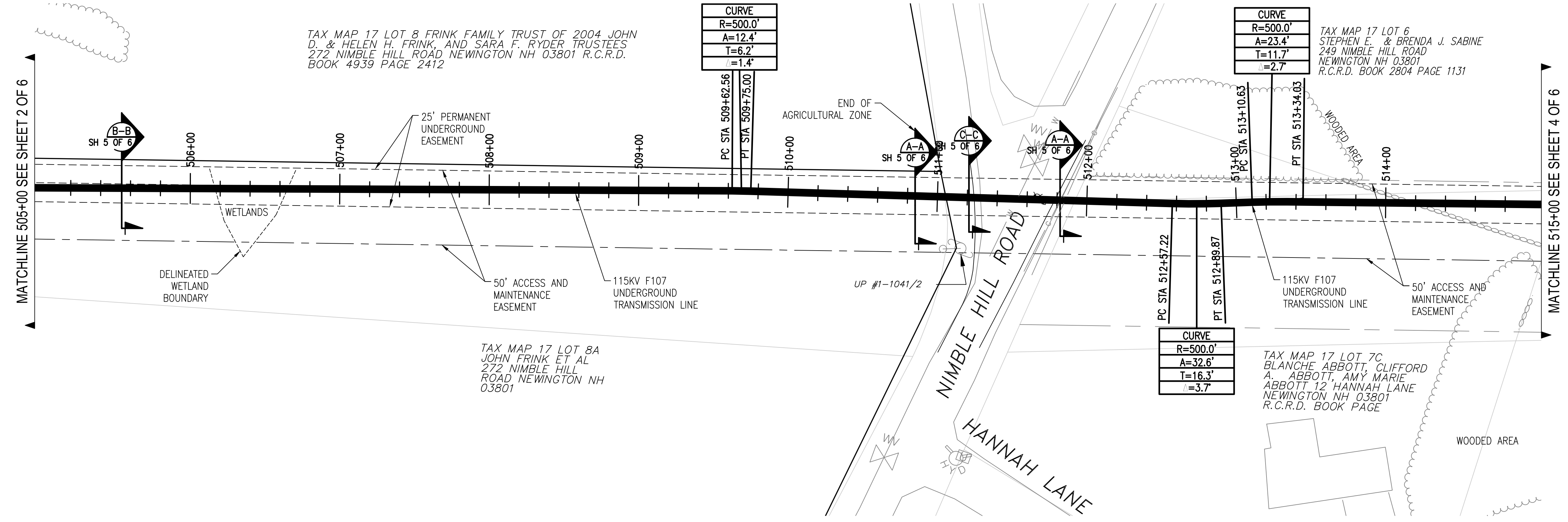
NO.	DATE	DRWN	CHKD	APPRV.
1	3-1-19	REG.	TSG	TSG
2	2-28-20	PM	REG.	TSG

ISSUE FOR RECORD 11/20/19 EPN #468	
ISSUE FOR CONSTRUCTION 11/20/19 EPN #468	

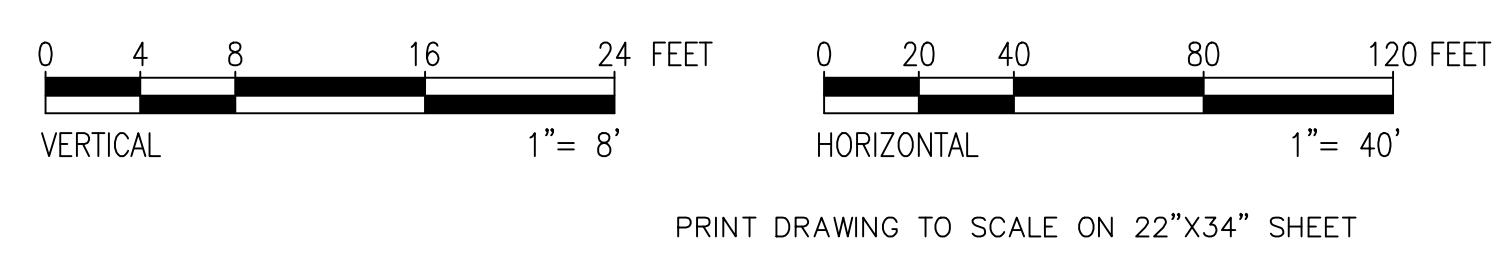
EVERSOURCE ENERGY

CIRCUIT F107 115kV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 SCALE: H 1"=40', V 1"=8'

ES VER: 11/2015
 3/6/2020 3:57 PM - pmagooon - Z:\Projects\133007\DD\DWG\09 Final CADD Files\F10743004 REV 2.dwg - SH 3

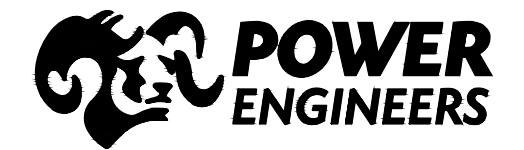


- Notes**
1. ALL CONSTRUCTION, ACCESS AND MAINTENANCE BETWEEN RISER STRUCTURE 106 AND NIMBLE HILL ROAD SHALL BE COMPLETED IN ACCORDANCE WITH EASEMENT BETWEEN EVERSOURCE AND THE FRINK FAMILY TRUST OF 2004.



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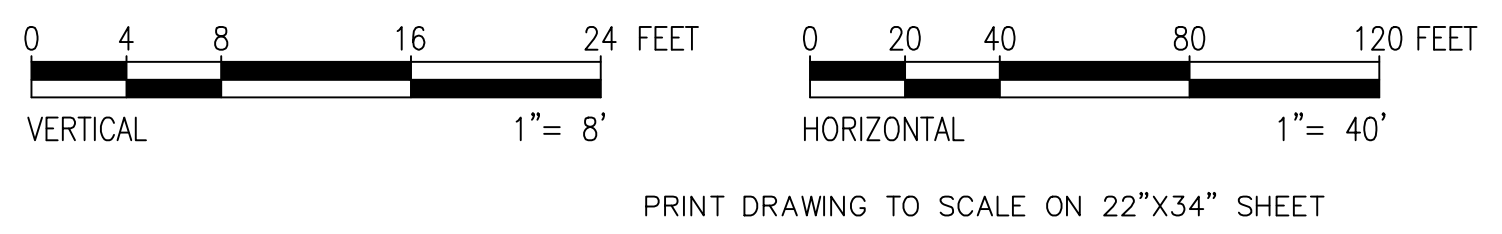
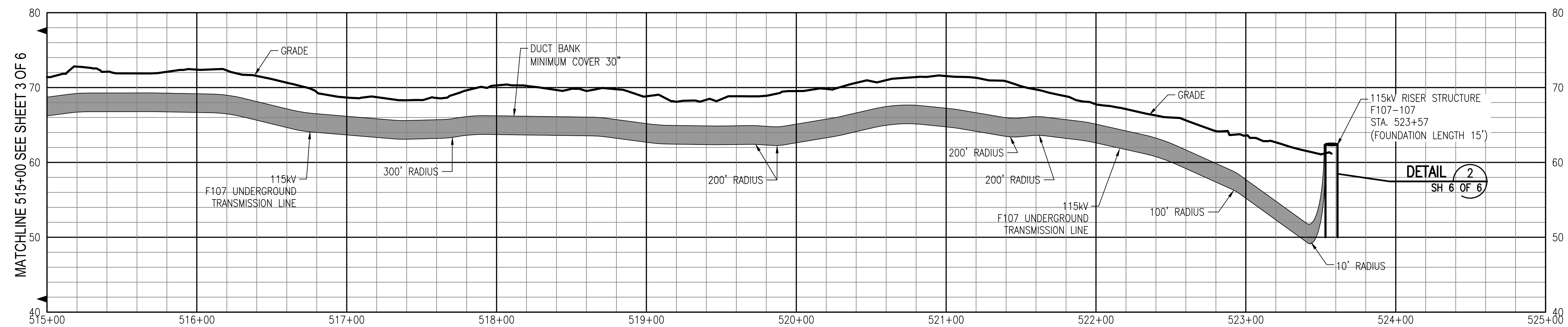
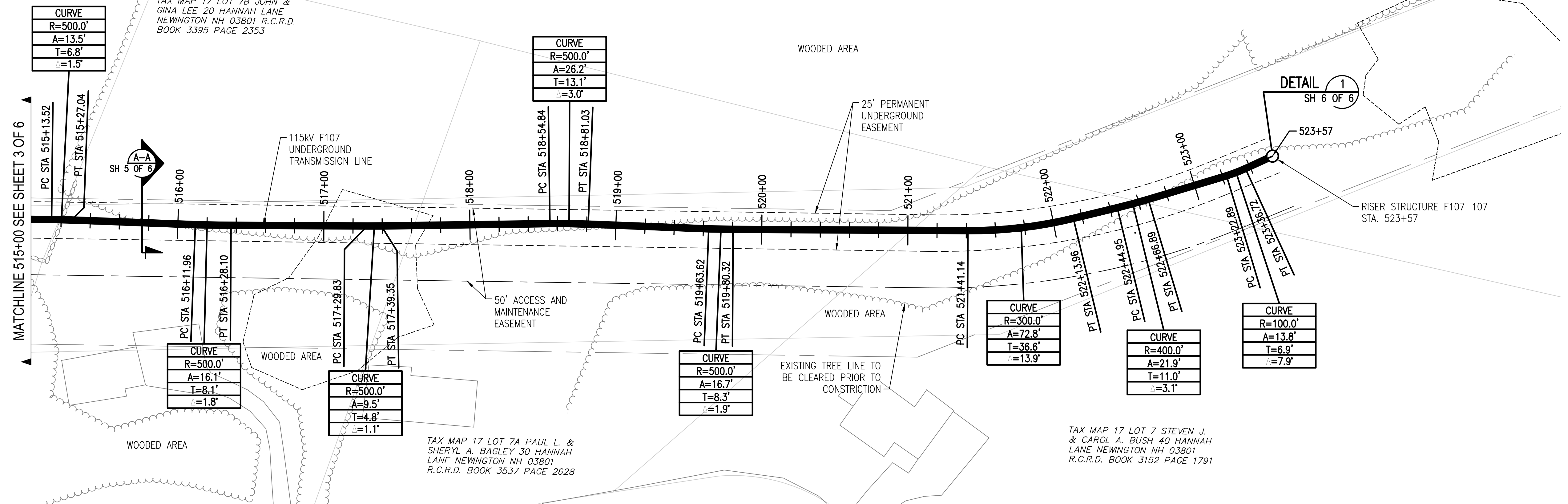
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2	2-28-20	PM	RED	ISS
ISSUE FOR RECORD 11276AT EPN 8468				
ISSUE FOR CONSTRUCTION 11276AT EPN 8468				

CIRCUIT F107 115kV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW
 SCALE: H 1"=40', V 1"=8'
 DATE: 3/1/2019
 T 2
 DES: REO | CHK: TSG
 DRW: REO | APR: TSG
 TOWN: NEWINGTON
 TRANSMISSION LINE: LINE
 MILE NO: 10
 DISCIPLINE/SHT NO.
 SHEET 3 OF 6
 F10743004



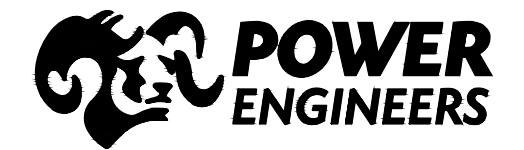
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ES VER: 11/2015



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THREE BUSINESS DAYS BEFORE YOU DIG CALL
NEW HAMPSHIRE DIG SAFE SYSTEM, INC.
TOLL FREE
1-888-344-7233



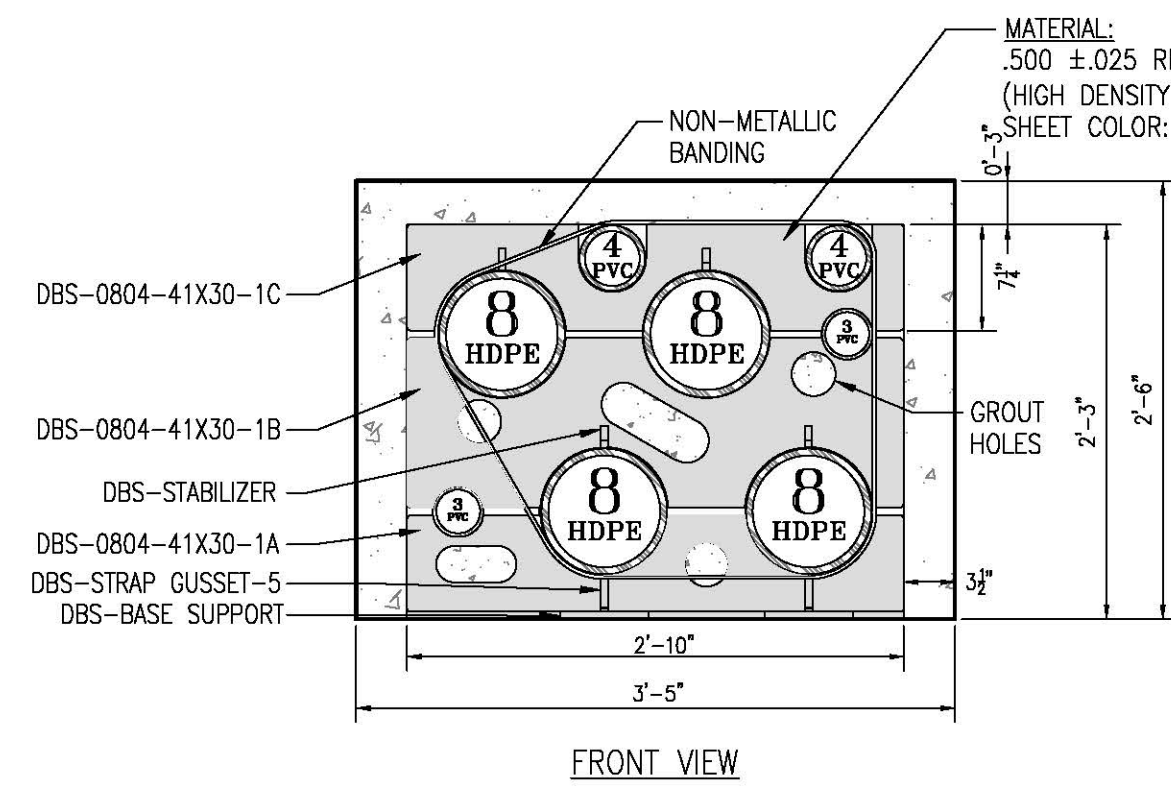
NO.	DATE	BY	CHKD	APPV.
1	3-1-19	REG.	TSS	
2	2-28-20	PM	REG.	TSS

ISSUE FOR RECORD 11/20/19 EPN 8468
ISSUE FOR CONSTRUCTION 11/20/19 EPN 8468

CIRCUIT F107 115kV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW
SCALE: H 1"=40', V 1"=8'

DES. REG. CHR: TSS
DRW. REG. APR:
TOWN: NEWINGTON
TRANSMISSION LINE: LINE
MILE NO: 1.0
DISCIPLINE/SHT NO.
SHEET 4 OF 6
F10743004

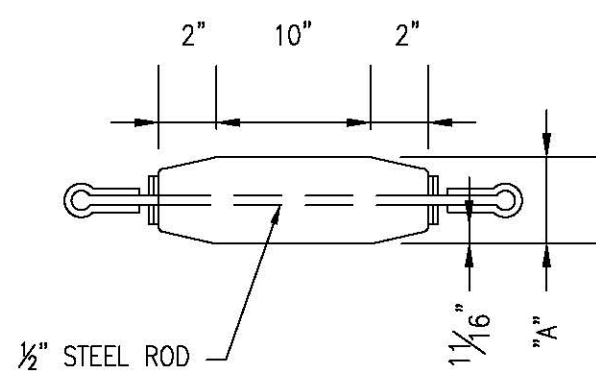
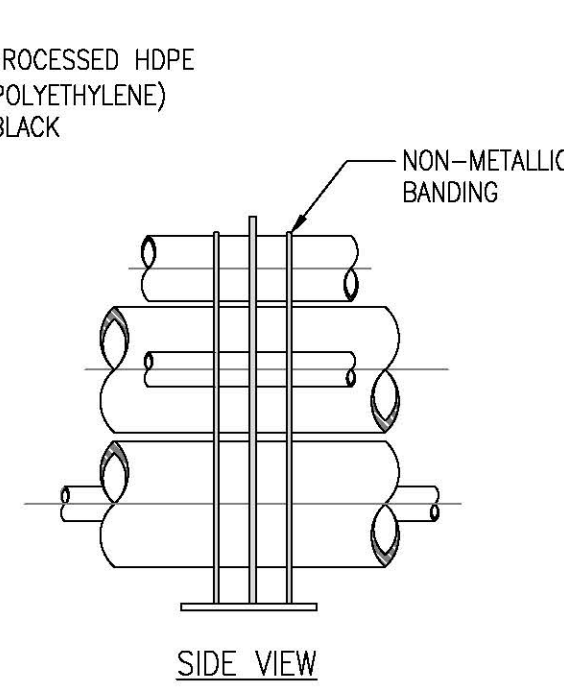
EVERSOURCE
ENERGY



ADVANCE PRODUCTS & SYSTEMS, LLC SPACER ARRANGEMENT
DETAIL
 SCALE: N.T.S. **1** SH 5 OF 6

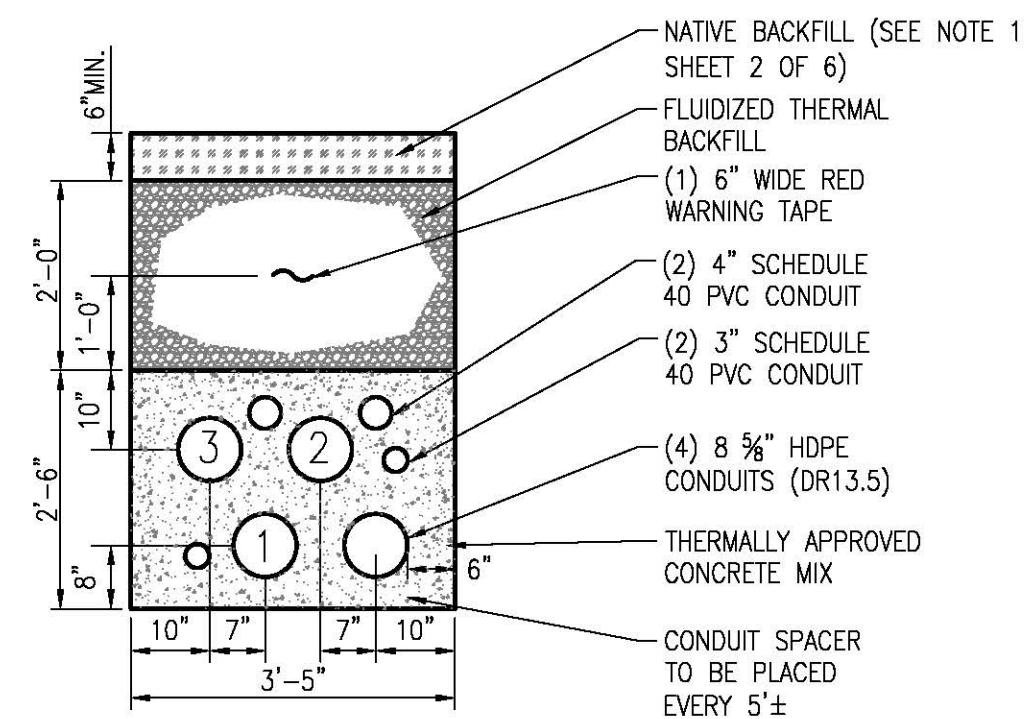
NOTES:

1. STAGGER BELL ENDS.
2. AVOID STANDING ON CONDUIT.
3. ALL TRENCH DETAILS AND PHASING SHOWN AS LOOKING AHEAD STATIONS.
4. ALL DUCT SPACERS ARE ADVANCE PRODUCTS & SYSTEMS, LLC.
5. SEPARATION SHOWN IS TYPICAL SPACING IN TRENCH EXCAVATION AREAS. SEE PLAN DETAILS FOR SEPARATION AT OTHER LOCATIONS.

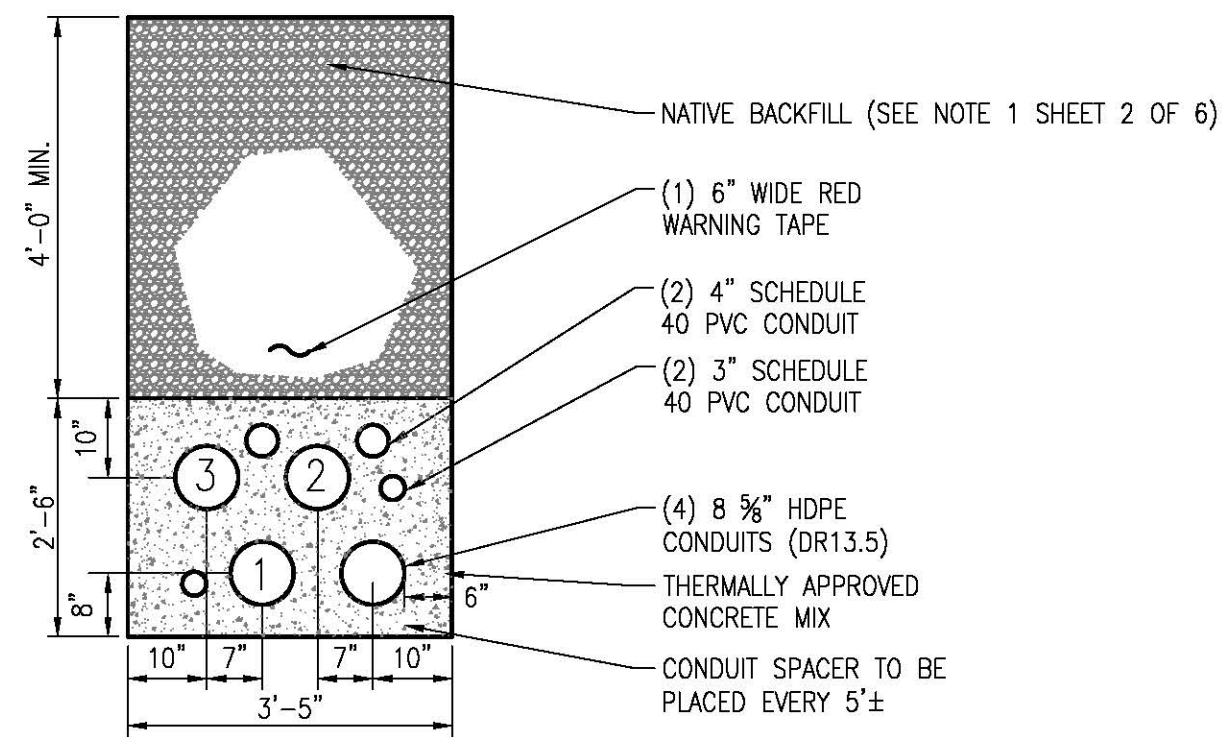


DIMENSION "A" TO BE 1/2" LESS THAN THE INSIDE DIAMETER OF THE SPECIFIED SIZE CONDUIT.

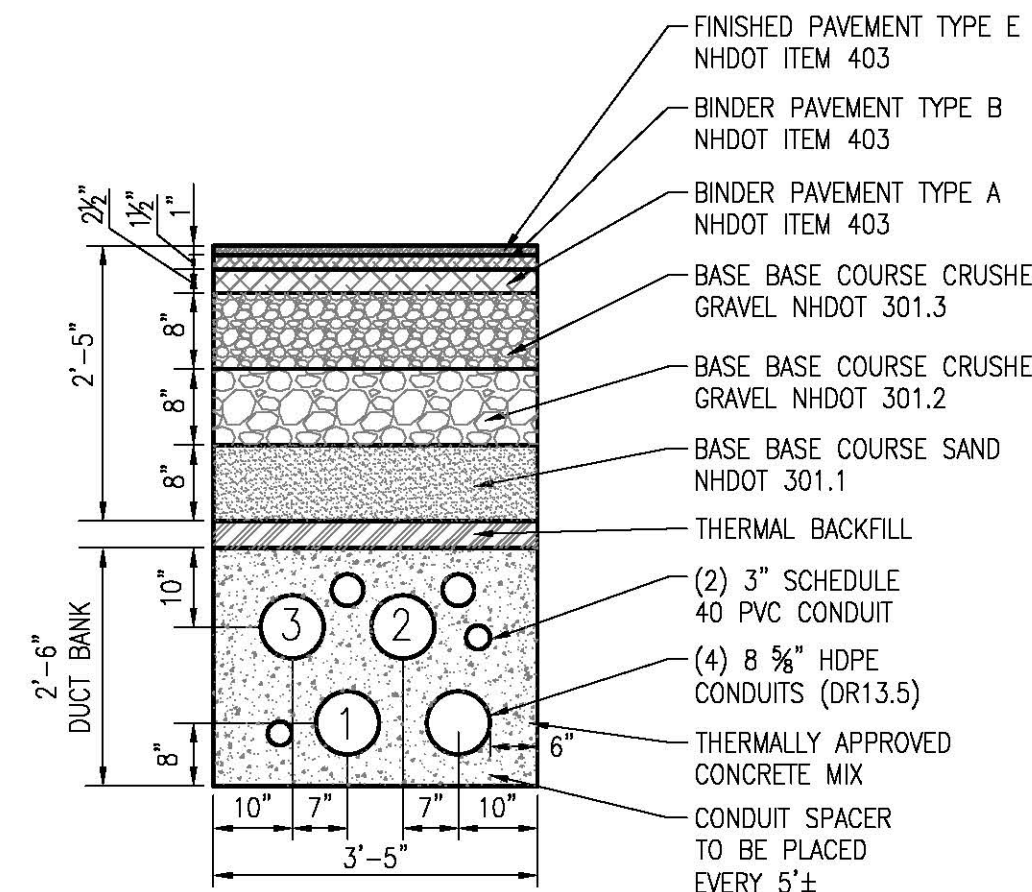
MANDREL DETAIL
 SCALE: N.T.S. **2** SH 5 OF 6



SINGLE CIRCUIT TRENCH SECTION
SECTION A-A
 SCALE: N.T.S. **SH 5 OF 6**



AGRICULTURAL TRENCH SECTION
SECTION B-B
 SCALE: N.T.S. **SH 5 OF 6**



NON RESIDENTIAL ROAD CROSSING CROSS SECTION (NIMBLE HILL RD)
SECTION C-C
 SCALE: N.T.S. **SH 5 OF 6**

Notes

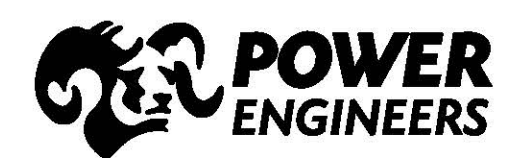
1. PER MEMORANDUM OF UNDERSTANDING BETWEEN EVERSOURCE AND TOWN OF NEWINGTON ALL ROAD CROSSINGS SHALL BE RECONSTRUCTED IN ACCORDANCE WITH TOWN OF NEWINGTON CONSTRUCTION STANDARDS FOR RESIDENTIAL AND NON RESIDENTIAL ROADWAYS.

NO.	REVISION	DATE	DRWN	CHKD	APPV.
1	ISSUE FOR CONSTRUCTION T1270AT EPN B488	3-1-19	REG	TSS	...
2	ISSUE FOR RECORD T1270AT EPN B488	2-28-20	PM	REG	TSS

EVERSOURCE ENERGY

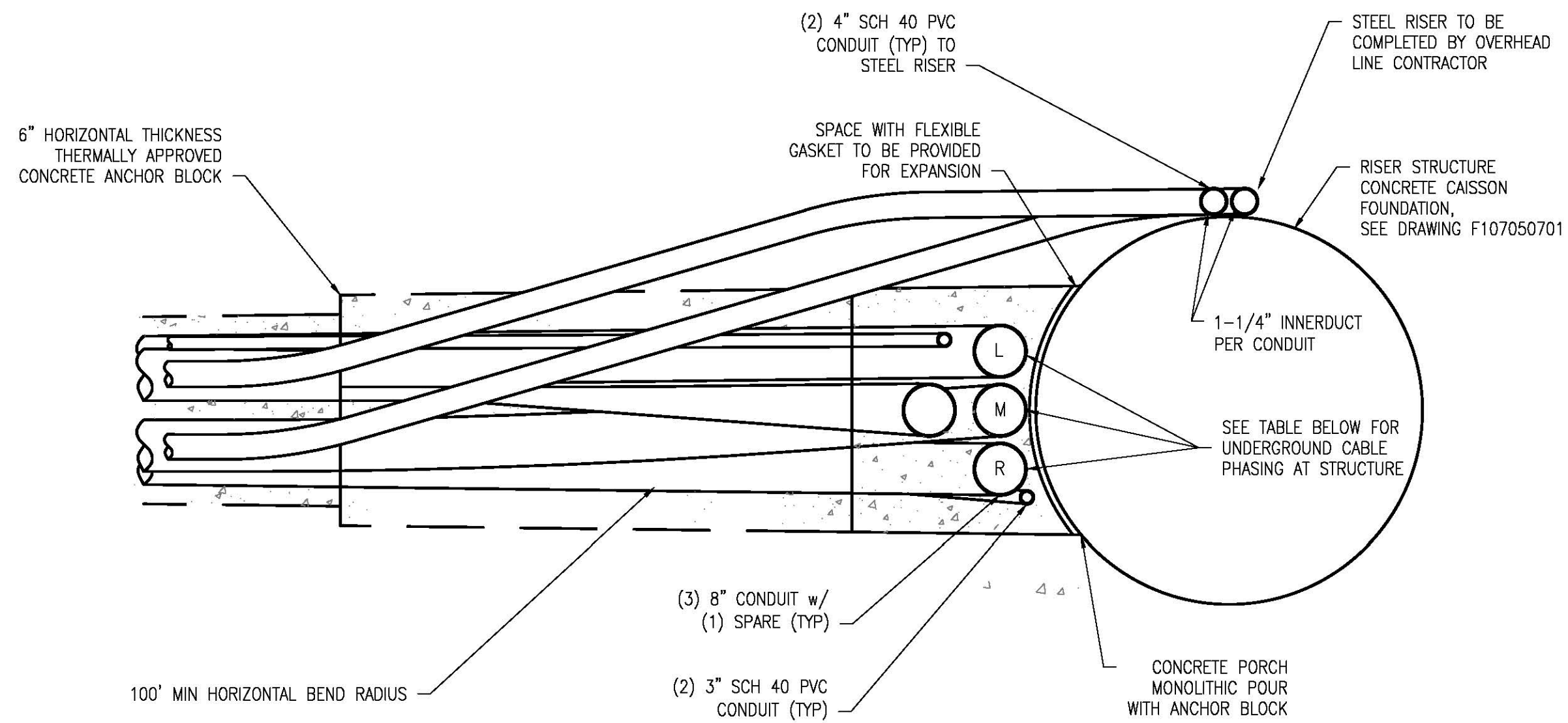
CIRCUIT F107 115kV UNDERGROUND TRANSMISSION LINE MISCELLANEOUS DETAILS
 SCALE: N.T.S.

DES: REG | CHR: TSS
 DRW: REG | APR:
 TOWN: NEWINGTON
 TRANSMISSION LINE: LINE
 MILE NO: 1.0
 DISCIPLINE/SHT NO:
 SHEET 5 OF 6
F10743004

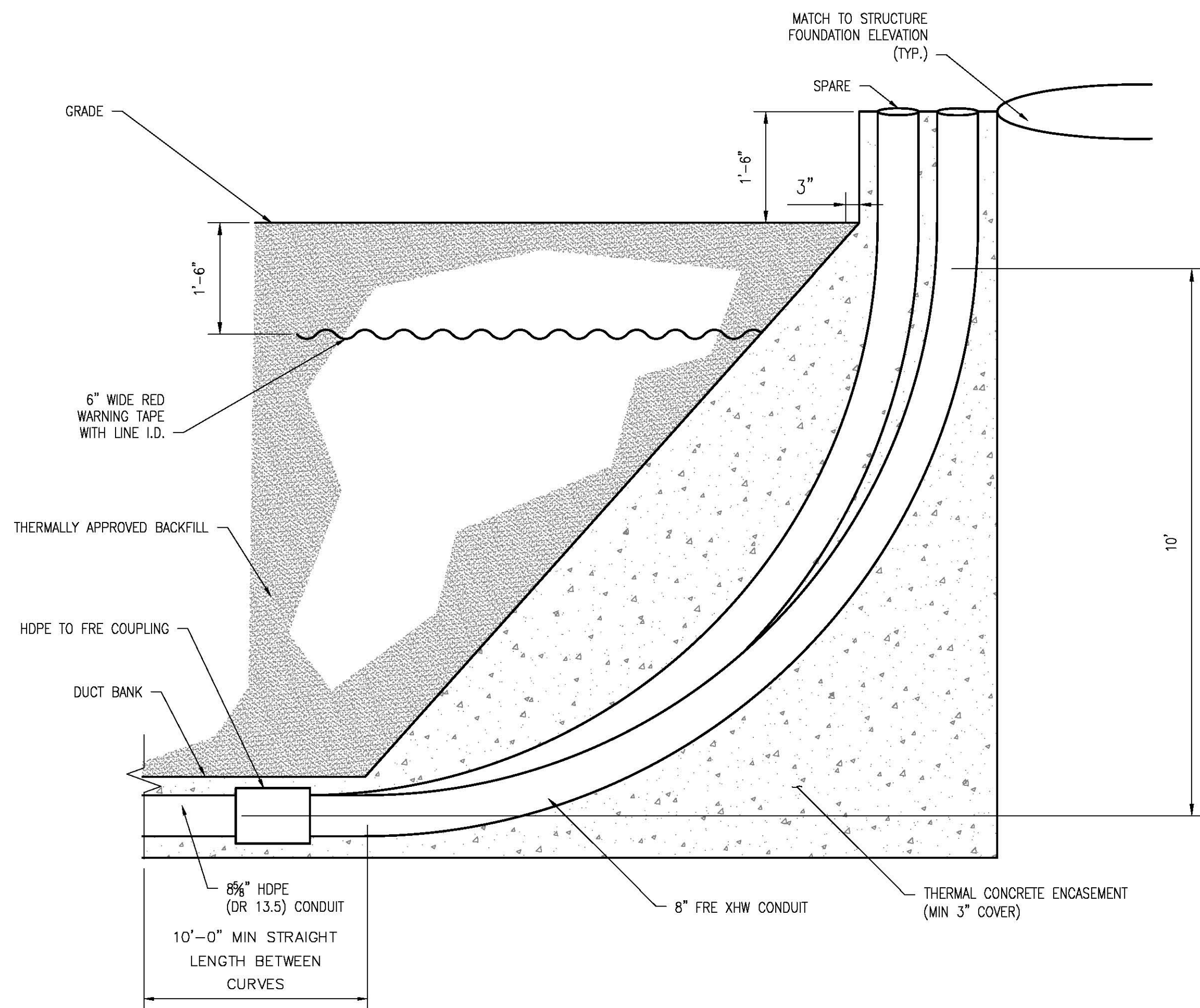


3/6/2020 3:57 PM - pmagooon - Z:\Projects\133007\DD\DWG\09 Final CADD Files\F10743004_REV 2.dwg - DETAILS SH 6

ES VER: 11/2015



TYP RISER SWEEP PLAN VIEW DETAIL
SCALE N.T.S. **1** SHEET 6 OF 6

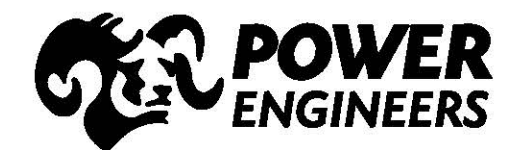


TYP RISER SWEEP DETAIL
SCALE N.T.S. **2** SHEET 6 OF 6

NO.	DATE	DRWN	CHKD	APPRV.
2	2-28-20	PM	RED	TSB
1	3-1-19	REG	TSB	...

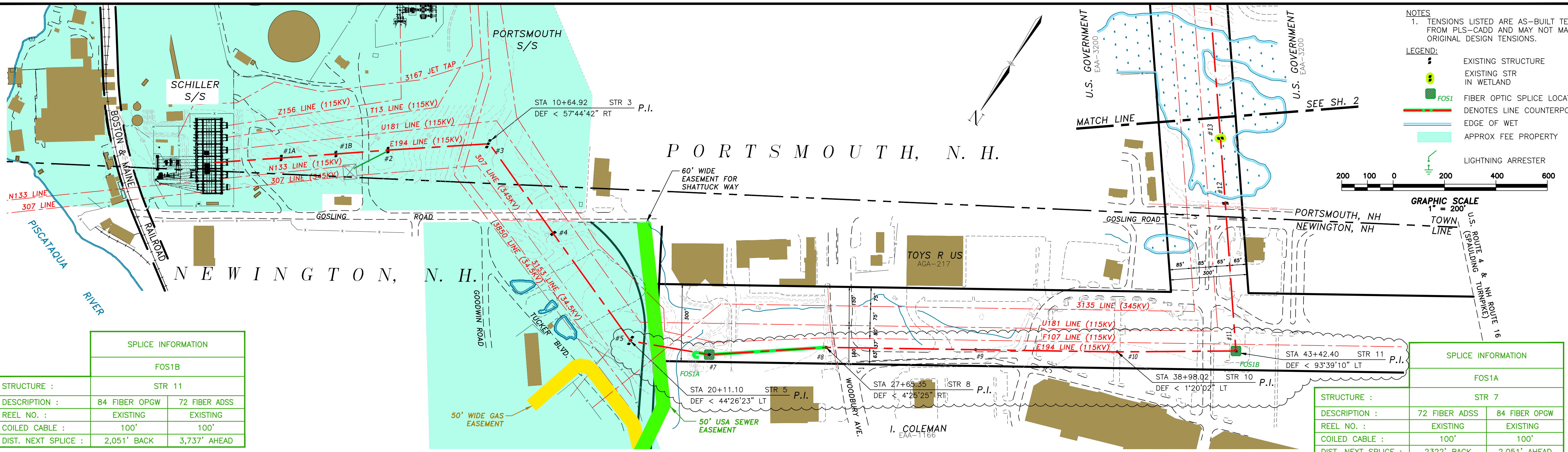
EVERSOURCE
ENERGY

T	2
CIRCUIT F107 115kV UNDERGROUND TRANSMISSION LINE RISER DETAILS	
SCALE: N.T.S.	
DES: RED	CHK: TSB
DRW: RED	APR:
TOWN: NEWINGTON	
TRANSMISSION LINE: LINE	
MILE NO: 1.0	
DISCIPLINE/SHT NO.	
SHEET 6 OF 6	
F10743004	

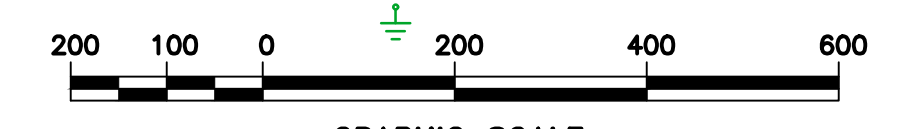


PRINT DRAWING TO SCALE ON 22"x34" SHEET

6/5/2020 8:39 AM - re:recovery - \\ref1\line\Projects\133005\DD\WVC\03 Line,Plan & Profile\E194\E19443001.dwg - Mile 1

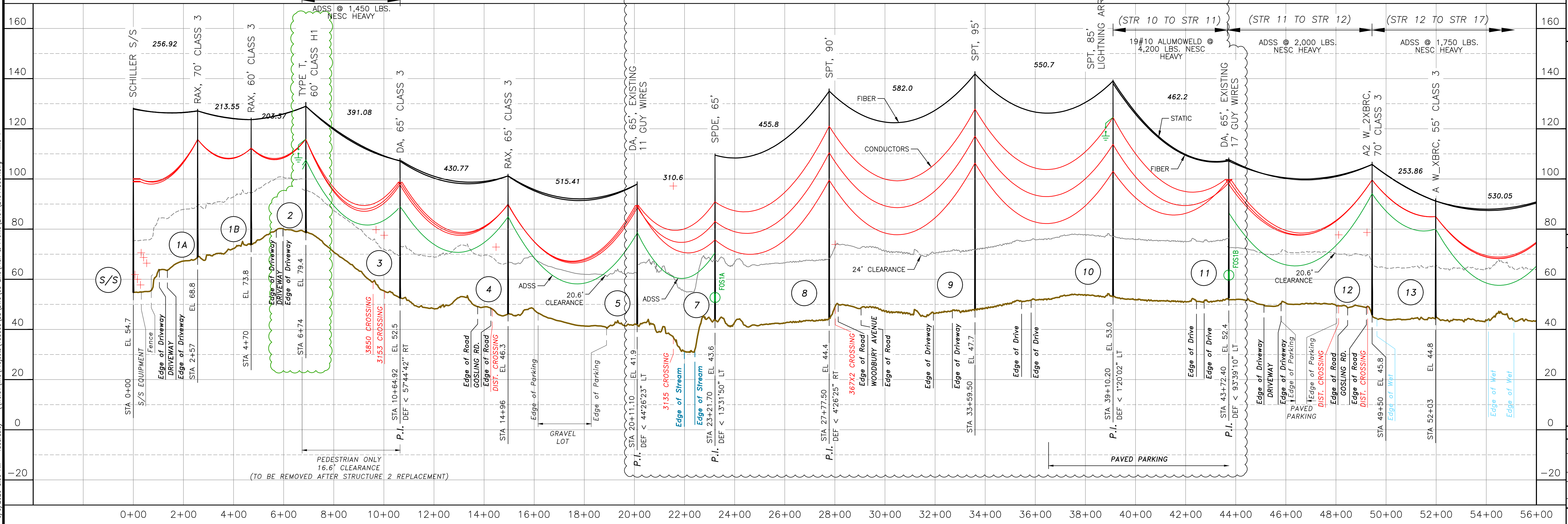
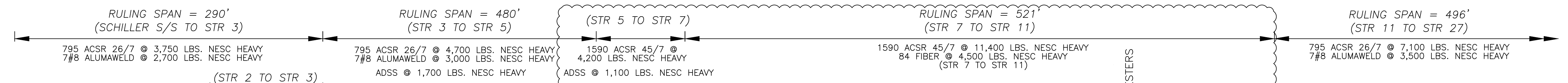


- NOTES**
 1. TENSIONS LISTED ARE AS-BUILT TENSIONS FROM PLS-CADD AND MAY NOT MATCH ORIGINAL DESIGN TENSIONS.
- LEGEND:**
- EXISTING STRUCTURE
 - EXISTING STR IN WETLAND
 - FIBER OPTIC SPLICE LOCATION
 - DENOTES LINE COUNTERPOISE
 - EDGE OF WET
 - APPROX FEE PROPERTY
 - LIGHTNING ARRESTER



SPLICE INFORMATION	
FOS1B	
STRUCTURE :	STR 11
DESCRIPTION :	84 FIBER OPGW 72 FIBER ADSS
REEL NO. :	EXISTING EXISTING
COILED CABLE :	100' 100'
DIST. NEXT SPLICE :	2,051' BACK 3,737' AHEAD

SPLICE INFORMATION	
FOS1A	
STRUCTURE :	STR 7
DESCRIPTION :	72 FIBER ADSS 84 FIBER OPGW
REEL NO. :	EXISTING EXISTING
COILED CABLE :	100' 100'
DIST. NEXT SPLICE :	2322' BACK 2,051' AHEAD



EVERSOURCE ENERGY

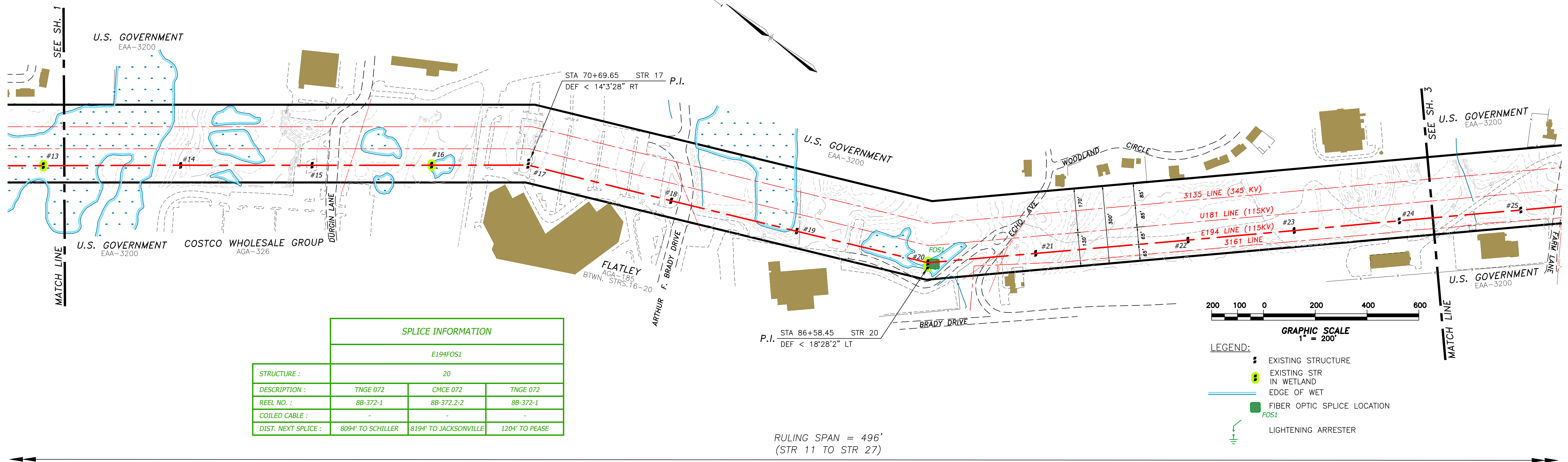
SCHILLER S/S - OCEAN RD. S/S
 115KV TRANSMISSION LINE
 MILE SHEET

DATE: 6/23/17
 SCALE: H: 1"=200', V: 1"=20'

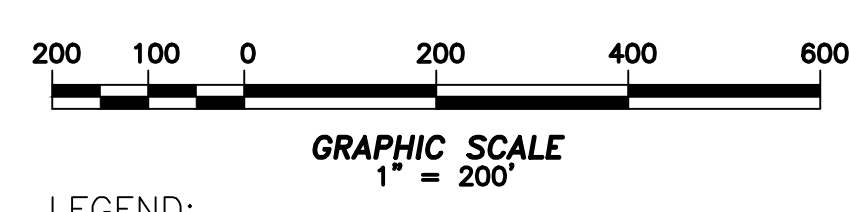
DES: SP
 CHK: SP
 APR: GEL

TOWN: PORTSMOUTH/NEWINGTON
 TRANSMISSION LINE: E194
 MILE NO: 1
 DISCIPLINE/SHT NO: SHEET 1 OF 6
 E19443001

PORTSMOUTH, N. H.

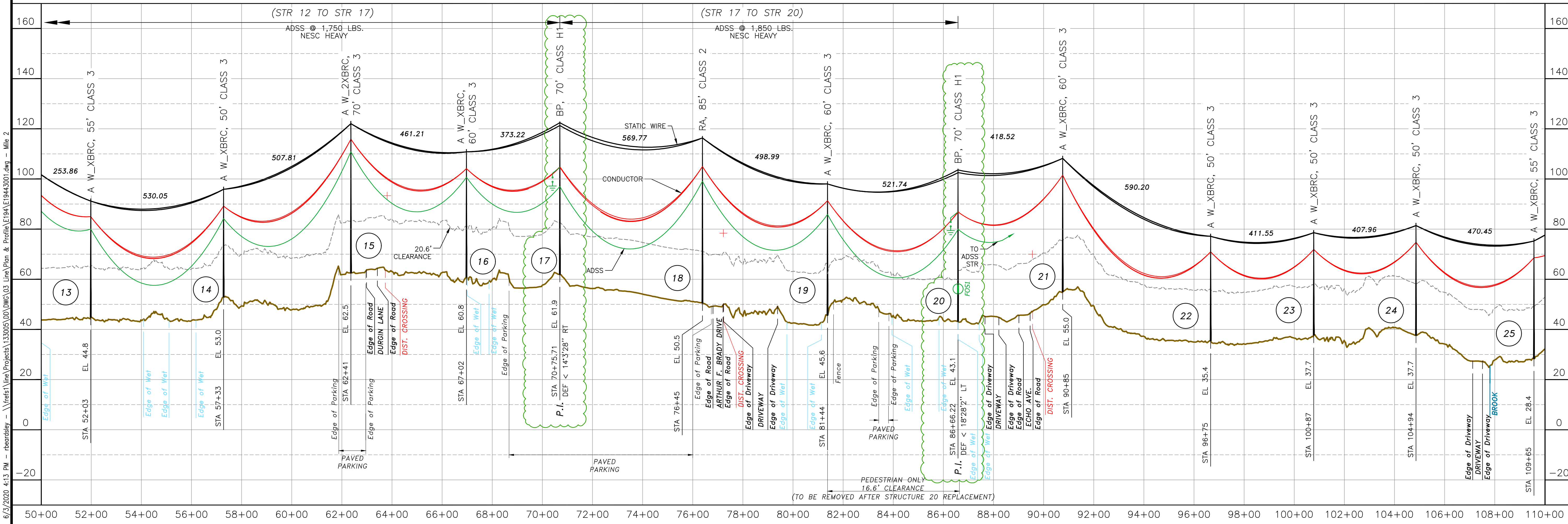


SPlice INFORMATION			
E194FOS1			
STRUCTURE :	20		
DESCRIPTION :	TNGE 072	CMCE 072	TNGE 072
REEL NO. :	8B-372-1	8B-372.2-2	8B-372-1
COILED CABLE :	-	-	-
DIST. NEXT SPlice :	8094' TO SCHILLER	8194' TO JACKSONVILLE	1204' TO PEASE



RULING SPAN = 496'
(STR 11 TO STR 27)

795 ACSR 26/7 @ 7,100 LBS. NESC HEAVY
7#8 ALUMOWELD @ 3,500 LBS. NESC HEAVY



DATE	02/07/19	APPROVED	APR
REVISION	1	BY	SP
DESCRIPTION	115KV TRANSMISSION LINE MILE SHEET		
NO.	4	DATE	02/07/19
REVISION	1	BY	SP
DESCRIPTION	115KV TRANSMISSION LINE MILE SHEET		

ES VER. 11/2015

6/3/2020 4:13 PM - recordskay - \\treis\line\Projects\133003\DD\DWG\03 Line,Plan & Profile\E194\E19443001.dwg - Mile 2

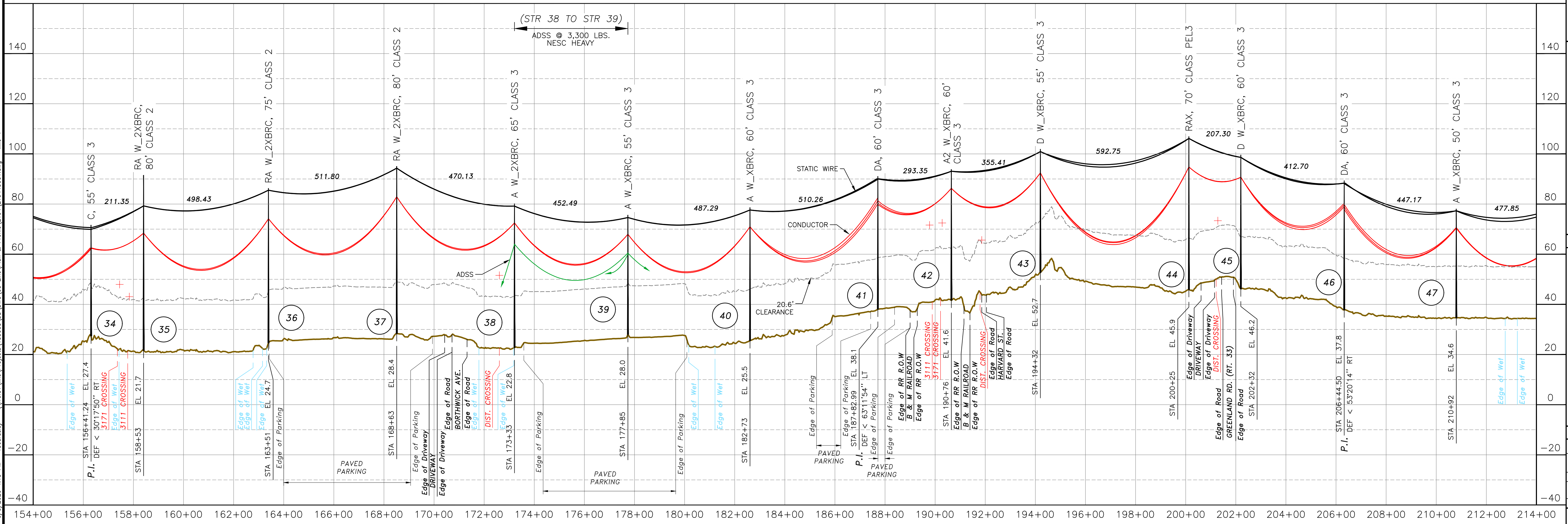
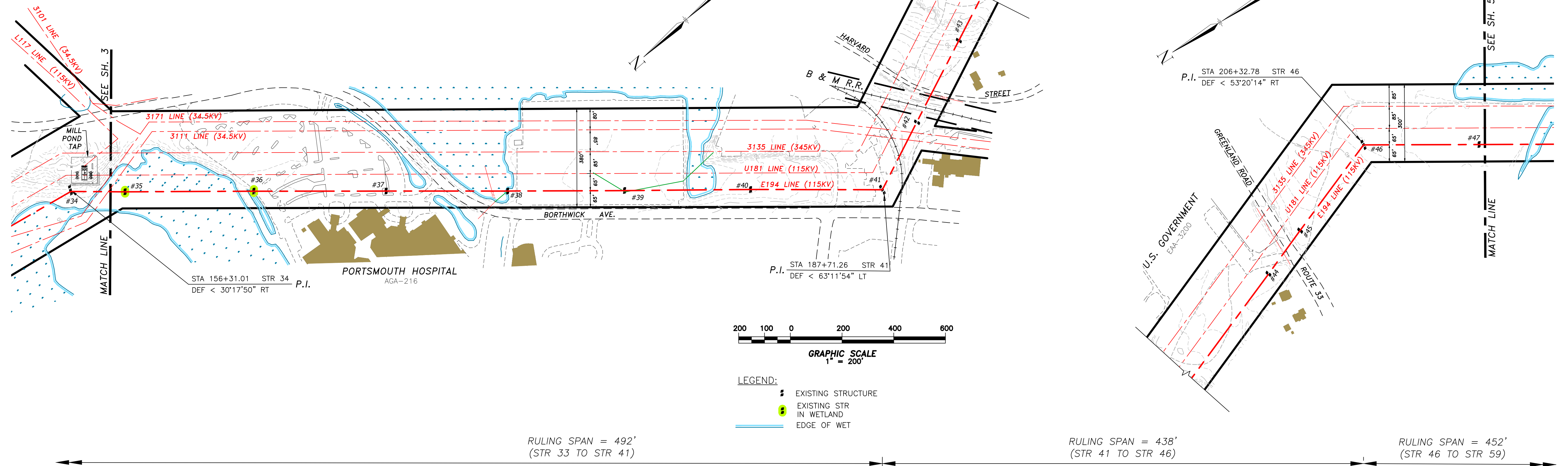
EVERSOURCE ENERGY

SCHILLER S/S - OCEAN RD. S/S
115KV TRANSMISSION LINE
MILE SHEET
E194

DATE: 8/23/17
SCALE: H: 1"=200', V: 1"=20'

SHEET 2 OF 6
E19443001

PORTSMOUTH, N. H.



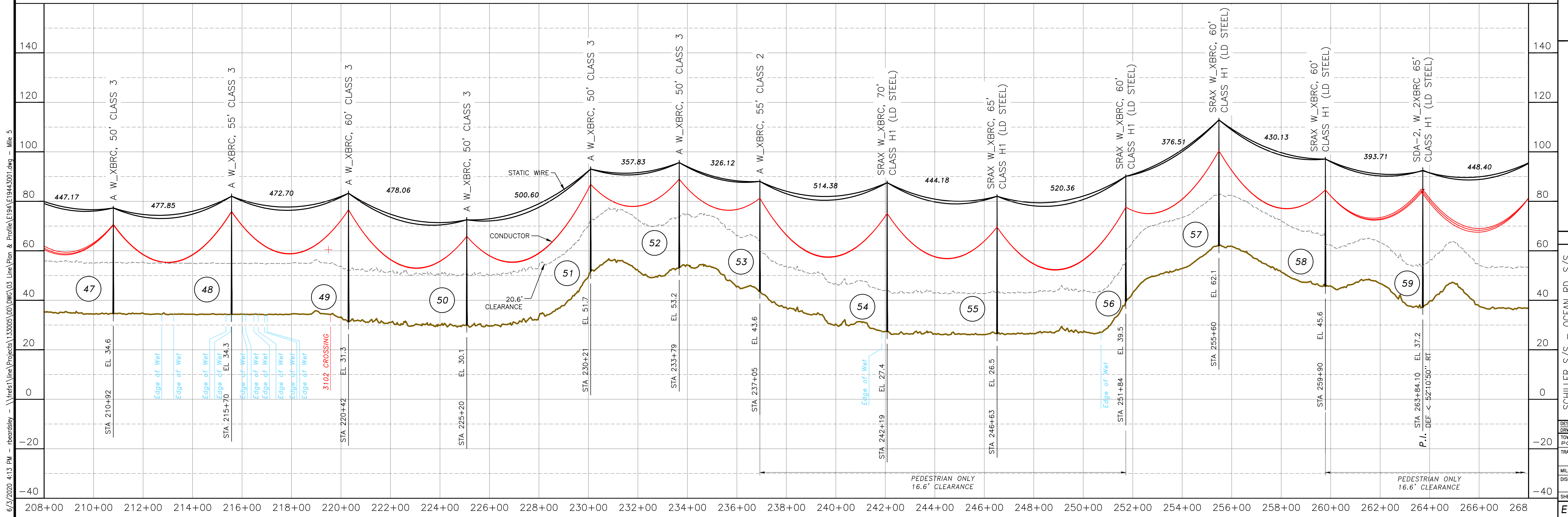
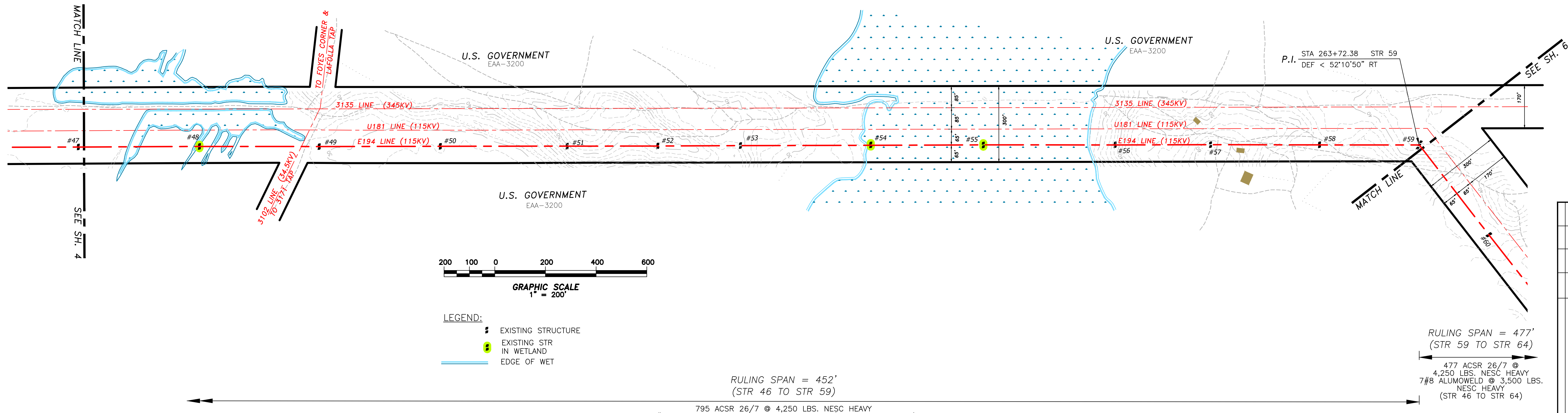
NO.	REVISION	DATE	BY	CHKD	APPV.	DESCRIPTION
1		8/17/17	SP	JLD		GROUND OR NEUTRAL 3/8 HS STEEL @ -20'
2		8/17/17	SP	JLD		CONDUCTOR 795 ACSR 26/7 @ 5320'
3		8/17/17	SP	JLD		CONDUCTOR 795 ACSR 26/7 @ 5320'
4		8/17/17	SP	JLD		CONDUCTOR 795 ACSR 26/7 @ 5320'

EVERSOURCE ENERGY

SCHILLER S/S - OCEAN RD. S/S
 115KV TRANSMISSION LINE
 MILE SHEET
 DATE: 8/23/17
 SCALE: H: 1"=200', V: 1"=20'
 SHEET 4 OF 6
E194
 DISCIPLINE/SHT NO.

6/3/2020 4:13 PM - reordsey - \\files\line\Projects\133003\DD\DWG\03 Line\Plan & Profile\E194_E19443001.dwg - Mile 4
 ES MER 11/2015

PORTSMOUTH, N. H.



6/3/2020 4:13 PM - reordersley - \\treis\line\Projects\133003\DD\DWG\03 Line Plan & Profile\E194\E19443001.dwg - Mile 5

NO.	REVISION	DATE	BY	CHKD	APPV.	GROUND OR NEUTRAL	3/8 HS STEEL	Ø-20F
1	STORM HARDENING FINAL (FORMERLY R-7508)	8/31/17	SP	JLD	GEL	CONDUCTOR		
2	AS-BUILT W/MT 132001	3/1/18	SP	SP	GEL	CONDUCTOR		
3	CONDUCTOR							
4	UPDATED STATIONING	10/2/19	RMP	AVS	APJ	FIBER OPTIC CABLE		

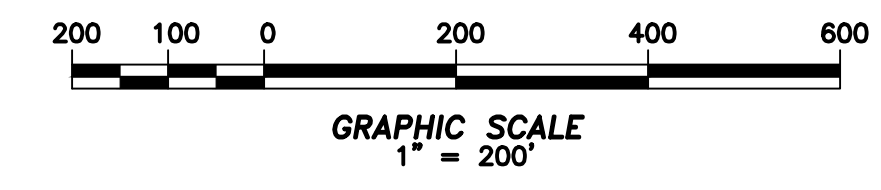
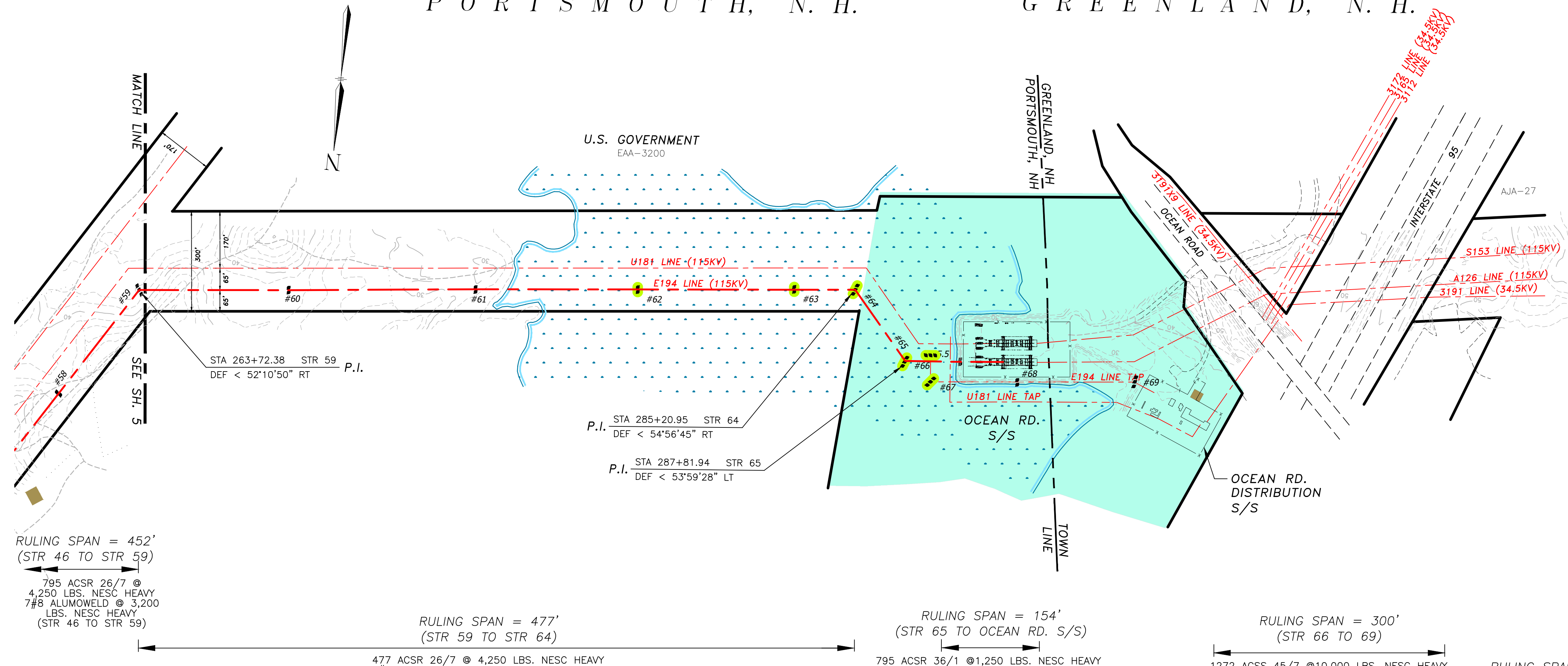
EVERSOURCE
ENERGY

SCHILLER S/S - OCEAN RD. S/S
115KV TRANSMISSION LINE
MILE SHEET

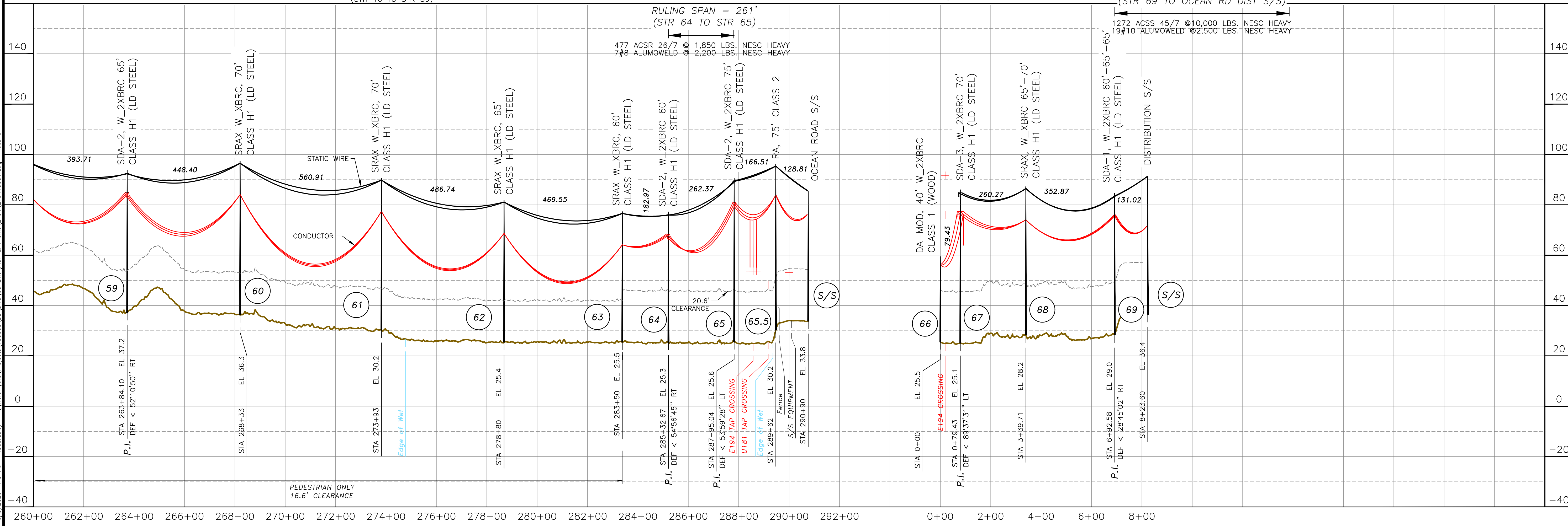
DES: SP
CHKD: GEL
TOWN: PORTSMOUTH
TRANSMISSION LINE:
E194
MILE NO: 5
DISCIPLINE/SHT NO.
SHEET 5 OF 6

DATE: 8/31/17
SCALE: H: 1"=200', V: 1"=20'

PORTSMOUTH, N. H. GREENLAND, N. H.



- LEGEND:
- EXISTING STRUCTURE
 - EXISTING STR IN WETLAND
 - EDGE OF WET
 - APPROX FEE PROPERTY



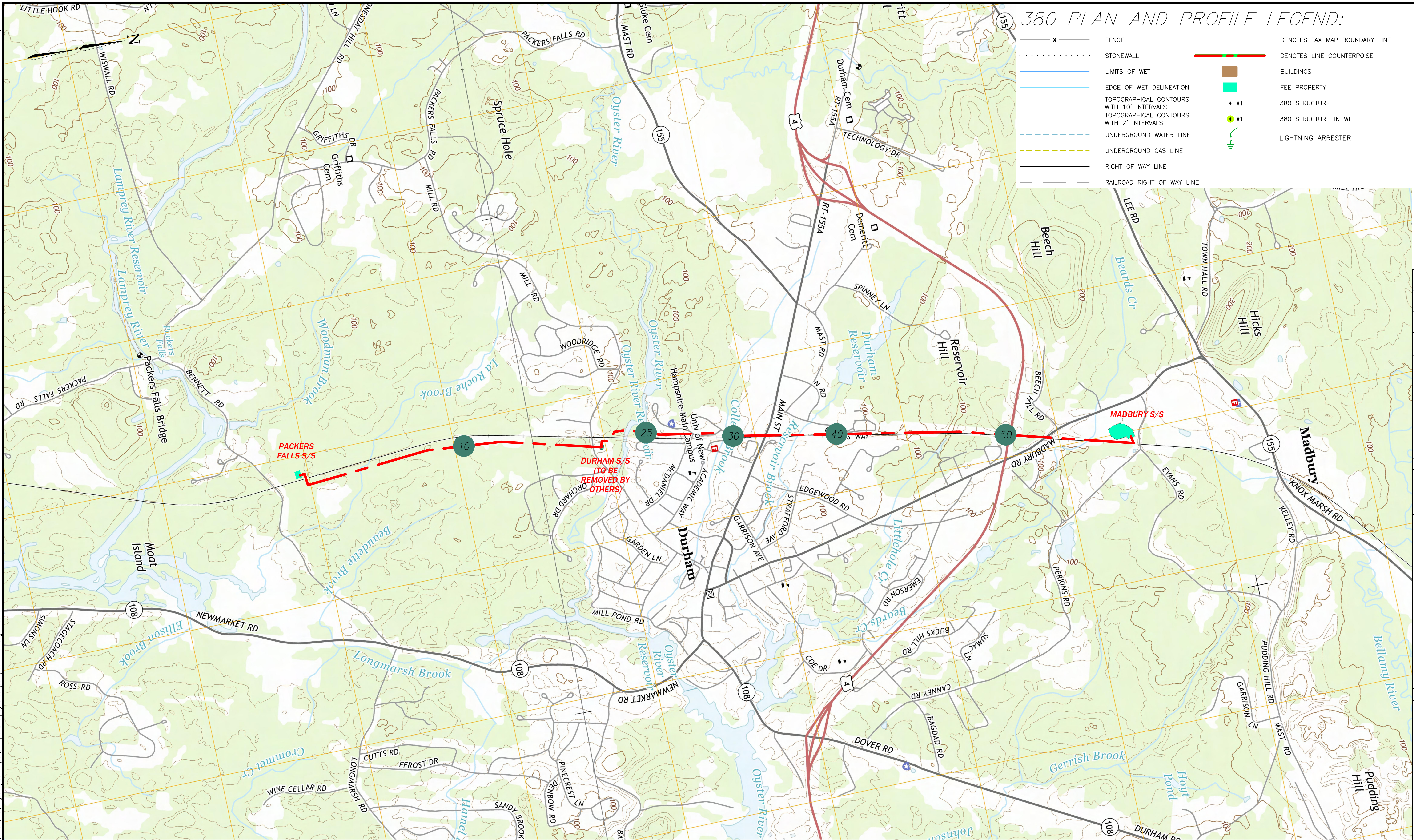
NO.	REVISION	DATE	BY	CHKD	APPRV.	DESCRIPTION
1	4/7/17	8/17/17	SP	JUD	JUD	STORM HARDENING FINAL (FORMERLY R-7505)
2	4/7/17	8/17/17	SP	JUD	JUD	AS-BUILT WORK 13/20/01
3	4/7/17	8/17/17	SP	JUD	JUD	AS-BUILT WORK 13/20/01
4	4/7/17	8/17/17	SP	JUD	JUD	AS-BUILT WORK 13/20/01
5	4/7/17	8/17/17	SP	JUD	JUD	AS-BUILT WORK 13/20/01
6	4/7/17	8/17/17	SP	JUD	JUD	AS-BUILT WORK 13/20/01
7	4/7/17	8/17/17	SP	JUD	JUD	AS-BUILT WORK 13/20/01
8	4/7/17	8/17/17	SP	JUD	JUD	AS-BUILT WORK 13/20/01
9	4/7/17	8/17/17	SP	JUD	JUD	AS-BUILT WORK 13/20/01
10	4/7/17	8/17/17	SP	JUD	JUD	AS-BUILT WORK 13/20/01

EVERSOURCE ENERGY

SCHILLER S/S - OCEAN RD. S/S
115KV TRANSMISSION LINE
MILE SHEET
DATE: 8/23/17
SCALE: H: 1"=200', V: 1"=20'

ES: MER: 11/2015

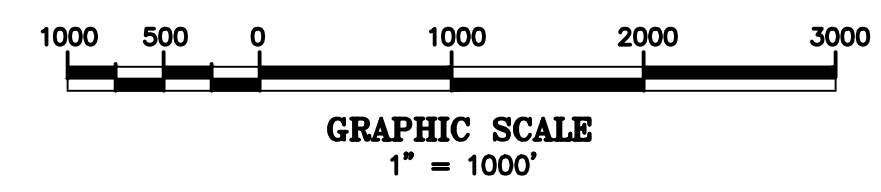
5/29/2020 2:51 PM - fboardsley - \\treas\line\Projects\133005\DD\DWG\03_Line_Keys_Sheet\380\038044101.dwg - 038044101



380 PLAN AND PROFILE LEGEND:

- 380 LINE
- 380 STRUCTURE NUMBER
- INDICATES APPROXIMATE LIMITS OF SUBSTATION
- DENOTES TAX MAP BOUNDARY LINE
- DENOTES LINE COUNTERPOISE
- BUILDINGS
- FEE PROPERTY
- 380 STRUCTURE
- 380 STRUCTURE IN WET
- LIGHTNING ARRESTER
- FENCE
- STONEMALL
- LIMITS OF WET
- EDGE OF WET DELINEATION
- TOPOGRAPHICAL CONTOURS WITH 10' INTERVALS
- TOPOGRAPHICAL CONTOURS WITH 2' INTERVALS
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- RIGHT OF WAY LINE
- RAILROAD RIGHT OF WAY LINE

- ### LEGEND:
- 380 LINE
 - 380 STRUCTURE NUMBER
 - INDICATES APPROXIMATE LIMITS OF SUBSTATION



NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUED FOR CONSTRUCTION	03/01/19	RWP	KMS	APJ
2	AS BUILT WORK	06/08/20	RAB	KMS	APJ

EVERSOURCE
ENERGY

PACKERS FALLS S/S TO MADBURY S/S
34.5kV TRANSMISSION LINE
KEYSHEET

DES: EDR
CHK: KMS
DRW: SCF
APR: APJ

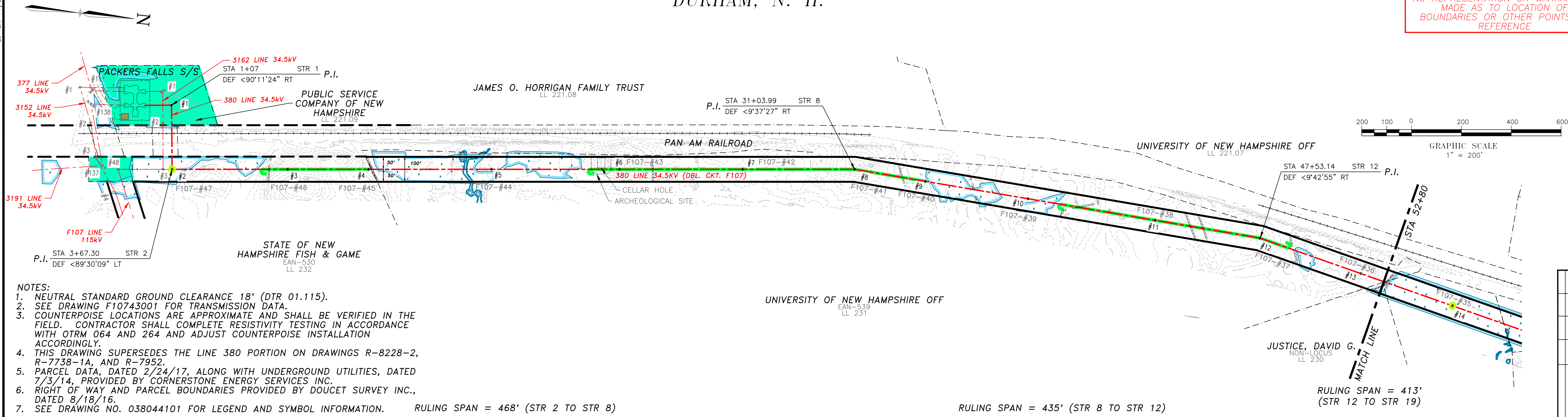
TOWN: MADBURY, DURHAM
TRANSMISSION LINE: 380

SCALE: 1" = 1000'
DATE: 07/26/16

SHEET 1 OF 1
038044101

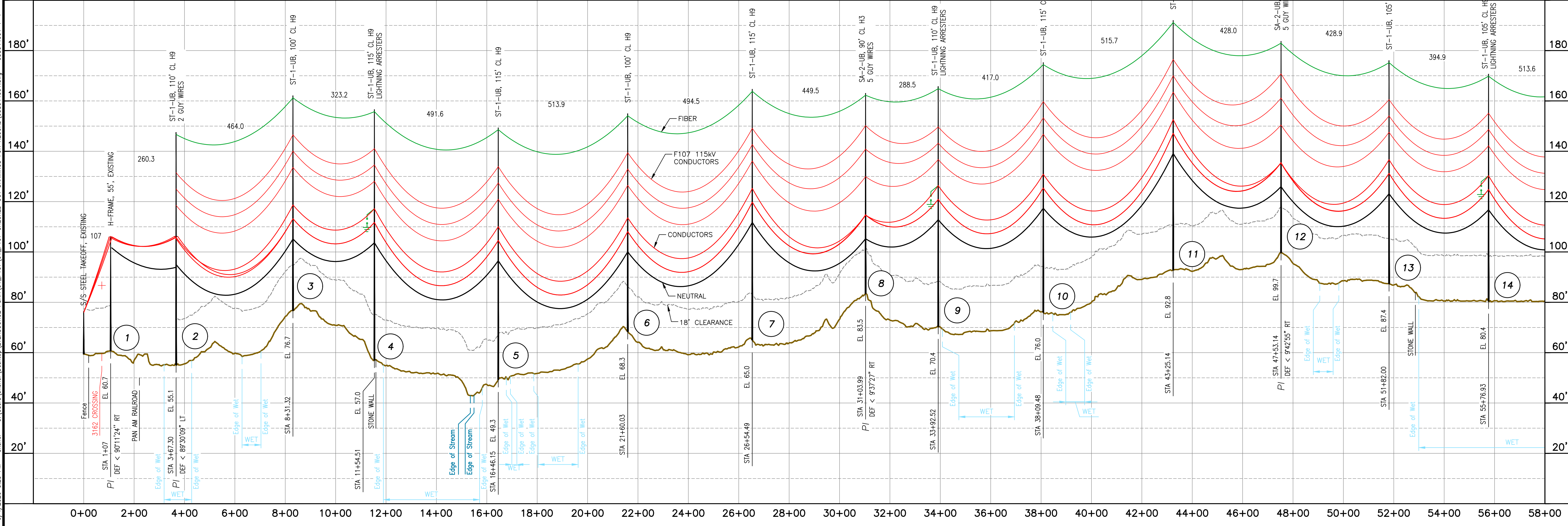
DURHAM, N. H.

THIS PLAN FOR REFERENCE ONLY. NO REPRESENTATION OR WARRANTY IS MADE AS TO LOCATION OF BOUNDARIES OR OTHER POINTS OF REFERENCE.



- NOTES:**
1. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 01.115).
 2. SEE DRAWING F10743001 FOR TRANSMISSION DATA.
 3. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 4. THIS DRAWING SUPERSEDES THE LINE 380 PORTION ON DRAWINGS R-8228-2, R-7738-1A, AND R-7952.
 5. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 6. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 7. SEE DRAWING NO. 038044101 FOR LEGEND AND SYMBOL INFORMATION.

795 ACSR 26/7 DRAKE @ 4,500 LBS. NESC HEAVY, 212°F
 4/0 ACSR 6/1 PENGUIN @ 2,500 LBS. NESC HEAVY, 120°F



NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUED FOR CONSTRUCTION	03/01/19	RWP	KMS	APJ
2	AS-BUILT	06/08/20	SCF	KMS	APJ
3	FIELD	08/08/20	SCF	KMS	APJ
4	FIELD	08/08/20	SCF	KMS	APJ
5	FIELD	08/08/20	SCF	KMS	APJ
6	FIELD	08/08/20	SCF	KMS	APJ
7	FIELD	08/08/20	SCF	KMS	APJ
8	FIELD	08/08/20	SCF	KMS	APJ
9	FIELD	08/08/20	SCF	KMS	APJ
10	FIELD	08/08/20	SCF	KMS	APJ
11	FIELD	08/08/20	SCF	KMS	APJ
12	FIELD	08/08/20	SCF	KMS	APJ
13	FIELD	08/08/20	SCF	KMS	APJ
14	FIELD	08/08/20	SCF	KMS	APJ
15	FIELD	08/08/20	SCF	KMS	APJ
16	FIELD	08/08/20	SCF	KMS	APJ
17	FIELD	08/08/20	SCF	KMS	APJ
18	FIELD	08/08/20	SCF	KMS	APJ
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24	FIELD	08/08/20	SCF	KMS	APJ
25	FIELD	08/08/20	SCF	KMS	APJ
26	FIELD	08/08/20	SCF	KMS	APJ
27	FIELD	08/08/20	SCF	KMS	APJ
28	FIELD	08/08/20	SCF	KMS	APJ
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30	FIELD	08/08/20	SCF	KMS	APJ
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41	FIELD	08/08/20	SCF	KMS	APJ
42	FIELD	08/08/20	SCF	KMS	APJ
43	FIELD	08/08/20	SCF	KMS	APJ
44	FIELD	08/08/20	SCF	KMS	APJ
45	FIELD	08/08/20	SCF	KMS	APJ
46	FIELD	08/08/20	SCF	KMS	APJ
47	FIELD	08/08/20	SCF	KMS	APJ
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55	FIELD	08/08/20	SCF	KMS	APJ
56	FIELD	08/08/20	SCF	KMS	APJ
57	FIELD	08/08/20	SCF	KMS	APJ
58	FIELD	08/08/20	SCF	KMS	APJ

EVERSOURCE ENERGY

PACKERS FALLS S/S TO MADBURY S/S
 34.5kV DISTRIBUTION LINE
 MILE SHEET

DATE: 08/03/2016
 SCALE: H: 1"=200', V: 1"=20'

DES: EDR
 CHK: KMS
 DRW: SCF
 APR: APJ

TOWN: DURHAM
 TRANSMISSION LINE: 380
 MILE NO: 1
 DISCIPLINE/SHT NO.

SHEET 1 OF 4
 038044001

6/4/2020 9:14 PM - sfisher - C:\Users\sfisher\Desktop\EVERSOURCE\PSH\01_F107\01_F107_CHECKED_OUT_DRAWINGS_FOR_RECORD\038044001.dwg - 038044001_3-4

DURHAM, N. H.

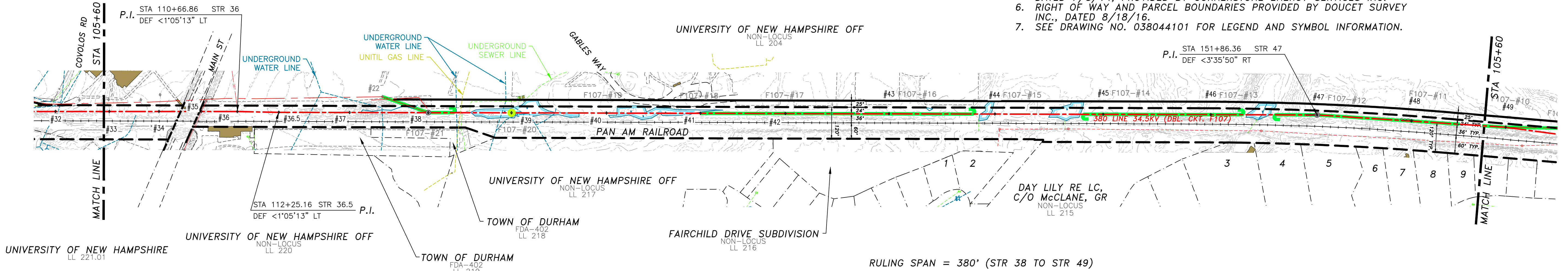
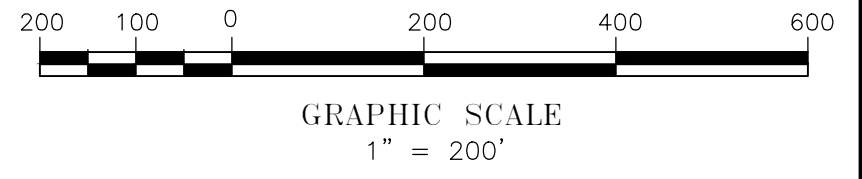
PARCELS:

1. GAROFALO, PIERO G. & DUBOIS-GAR, LL 216.02
2. KARL A. VAN ASSELT LIV REV TRUST, LL 216.01
3. PETER M. EJARQUE REVOCABLE TRUST, NON-LOCUS LL 214
4. CORVINI, MARGUERITE, NON-LOCUS LL 213
5. GIROUX, DAVID L. & BROWN, GRET, NON-LOCUS LL 212
6. O'SHEA, KEVIN M. & LEIGHS A., NON-LOCUS LL 211
7. VASILE, THOMAS & KATHLEEN K., NON-LOCUS LL 210
8. LUFT, KAROLA, NON-LOCUS LL 209
9. SKOTKO, BRADLEY & SMITH, HEATHE, NON-LOCUS LL 208

NOTES:

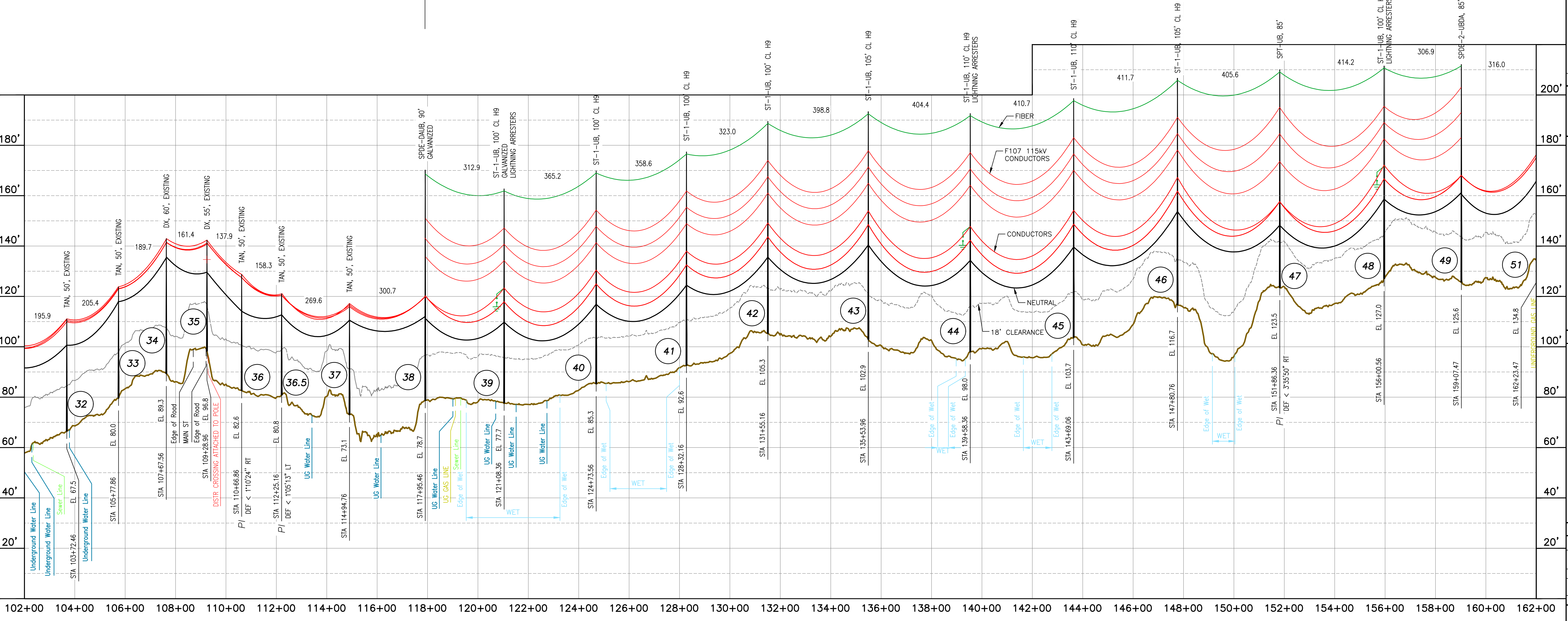
1. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 01.115).
2. SEE DRAWING F10743001 FOR TRANSMISSION DATA.
3. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
4. THIS DRAWING SUPERSEDES THE LINE 380 PORTION ON DRAWINGS R-8228-2, R-7738-1A, AND R-7952.
5. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
6. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
7. SEE DRAWING NO. 038044101 FOR LEGEND AND SYMBOL INFORMATION.

THIS PLAN FOR REFERENCE ONLY. NO REPRESENTATION OR WARRANTY IS MADE AS TO LOCATION OF BOUNDARIES OR OTHER POINTS OF REFERENCE.



795 ACSR 26/7 DRAKE @ 4,500 LBS. NESC HEAVY, 212'F
 4/0 ACSR 6/1 PENGUIN @ 2,500 LBS. NESC HEAVY, 120'F
 (STR 38 TO STR 48)
 336.4 KCMIL 18/1 MERLIN
 (STR 27.5 TO STR 38)

RULING SPAN = 380' (STR 38 TO STR 49)

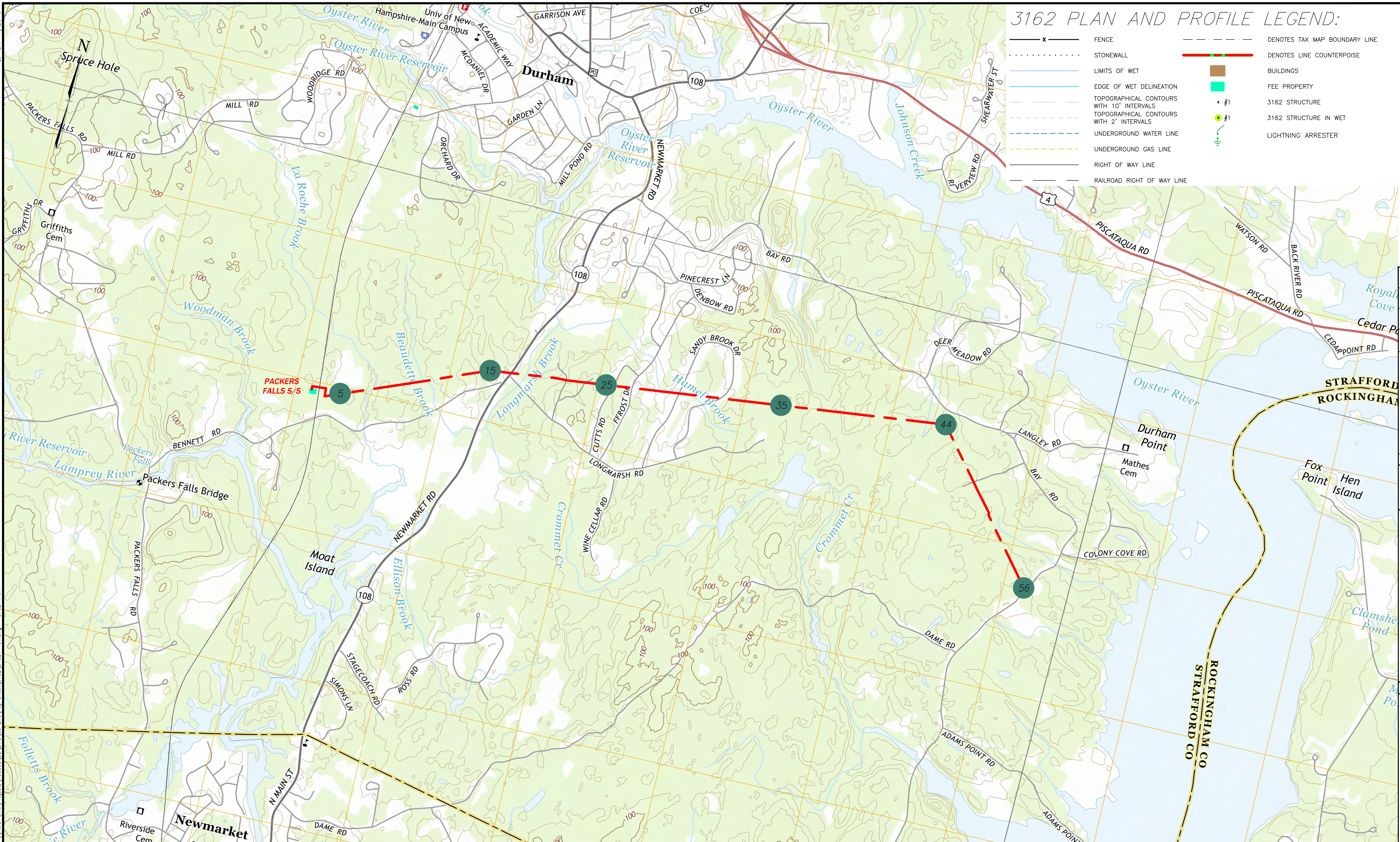


NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUED FOR CONSTRUCTION	03/01/19	KMS	KMS	APJ
2	AS-BUILT	06/08/20	SCF	KMS	APJ
3	THIS DCSR 26/7 DRAKE (34.5KV) CONDUCTOR	08/08/20	SCF	KMS	APJ
4	THIS DCSR 6/1 PENGUIN (2,500 LBS) CONDUCTOR	08/08/20	SCF	KMS	APJ
5	THIS DCSR 18/1 MERLIN (336.4 KCMIL) CONDUCTOR	08/08/20	SCF	KMS	APJ

EVERSOURCE ENERGY

PACKERS FALLS S/S TO MADBURY S/S
 34.5KV DISTRIBUTION LINE
 MILE SHEET
 DATE: 09/03/2016
 SCALE: H: 1"=200', V: 1"=20'
 SHEET 3 OF 4
 038044001

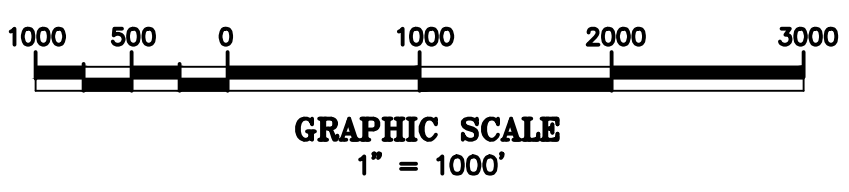
6/3/2020 8:29 AM - rbeardsley - \\treas\line\Projects\133005\DD\DWG\03 Line Key Sheet\3162\316244101.dwg - 316244101



3162 PLAN AND PROFILE LEGEND:

- 3162 LINE
- 3162 STRUCTURE NUMBER
- INDICATES APPROXIMATE LIMITS OF SUBSTATION
- FENCE
- STONEWALL
- LIMITS OF WET
- EDGE OF WET DELINEATION
- TOPOGRAPHICAL CONTOURS WITH 10' INTERVALS
- TOPOGRAPHICAL CONTOURS WITH 2' INTERVALS
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- RIGHT OF WAY LINE
- RAILROAD RIGHT OF WAY LINE
- DENOTES TAX MAP BOUNDARY LINE
- DENOTES LINE COUNTERPOISE
- BUILDINGS
- FEE PROPERTY
- 3162 STRUCTURE
- 3162 STRUCTURE IN WET
- LIGHTNING ARRESTER

- LEGEND:**
- 3162 LINE
 - 3162 STRUCTURE NUMBER
 - INDICATES APPROXIMATE LIMITS OF SUBSTATION



NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUED FOR CONSTRUCTION	03/01/19	RWP	KMS	APJ
2	AS BUILT	06/08/20	RAB	KMS	APJ

EVERSOURCE ENERGY

PACKERS FALLS S/S TO STR 56
34.5KV DISTRIBUTION LINE
KEYSHEET
DATE: 02/02/2017
SCALE: 1"=1000'

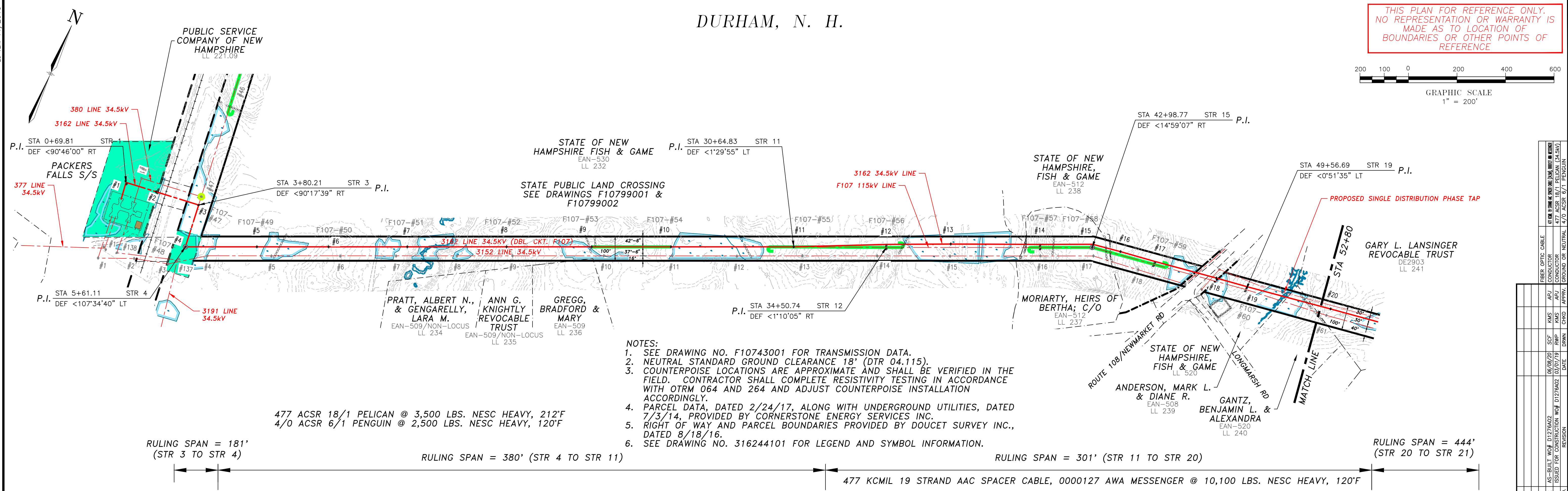
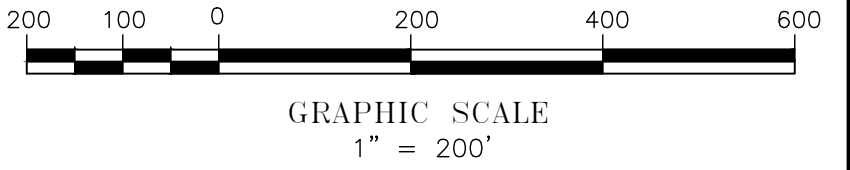
DES: EDR	CHK: KMS
DRW: SCF	APR: APJ
TOWN: DURHAM	
TRANSMISSION LINE: 3162	
MILE NO:	
DISCIPLINE/SHT NO:	
SHEET 1 OF 1	

316244101

ES VER. 11/2015

DURHAM, N. H.

THIS PLAN FOR REFERENCE ONLY. NO REPRESENTATION OR WARRANTY IS MADE AS TO LOCATION OF BOUNDARIES OR OTHER POINTS OF REFERENCE.



RULING SPAN = 181' (STR 3 TO STR 4)

RULING SPAN = 380' (STR 4 TO STR 11)

RULING SPAN = 301' (STR 11 TO STR 20)

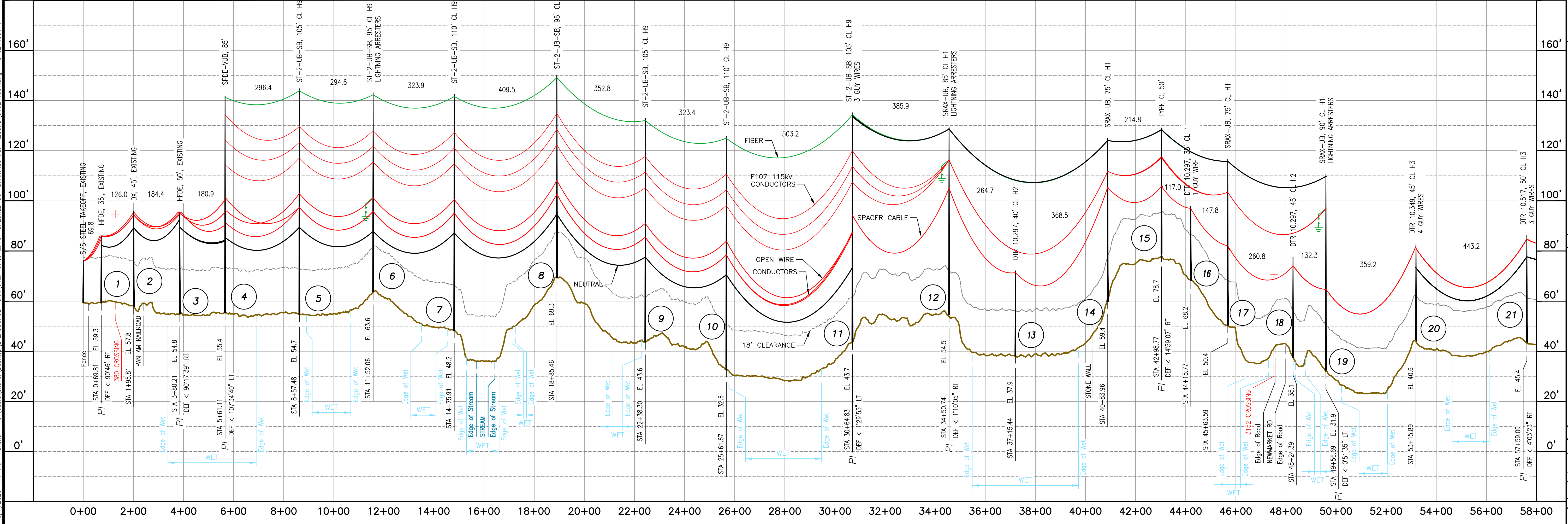
RULING SPAN = 444' (STR 20 TO STR 21)

- NOTES:
- SEE DRAWING NO. F10743001 FOR TRANSMISSION DATA.
 - NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
 - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 - SEE DRAWING NO. 316244101 FOR LEGEND AND SYMBOL INFORMATION.

477 ACSR 18/1 PELICAN @ 3,500 LBS. NESC HEAVY, 212°F
4/0 ACSR 6/1 PENGUIN @ 2,500 LBS. NESC HEAVY, 120°F

477 KCMIL 19 STRAND AAC SPACER CABLE, 0000127 AWA MESSENGER @ 10,100 LBS. NESC HEAVY, 120°F

6/4/2020 4:17 PM - sfisher - C:\Users\sfisher\Desktop\EVERSOURCE\PSNH\01_F107\01_F107 CHECKED OUT DRAWINGS FOR RECORD\31624401.dwg - 31624401_1-4



NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUED FOR CONSTRUCTION	03/01/19	RWP		
2	AS-BUILT	06/08/20	SCF		
3	FIELD CORRECTIONS	08/08/20	SCF		
4	FIELD CORRECTIONS	08/08/20	SCF		
5	FIELD CORRECTIONS	08/08/20	SCF		
6	FIELD CORRECTIONS	08/08/20	SCF		
7	FIELD CORRECTIONS	08/08/20	SCF		
8	FIELD CORRECTIONS	08/08/20	SCF		
9	FIELD CORRECTIONS	08/08/20	SCF		
10	FIELD CORRECTIONS	08/08/20	SCF		
11	FIELD CORRECTIONS	08/08/20	SCF		
12	FIELD CORRECTIONS	08/08/20	SCF		
13	FIELD CORRECTIONS	08/08/20	SCF		
14	FIELD CORRECTIONS	08/08/20	SCF		
15	FIELD CORRECTIONS	08/08/20	SCF		
16	FIELD CORRECTIONS	08/08/20	SCF		
17	FIELD CORRECTIONS	08/08/20	SCF		
18	FIELD CORRECTIONS	08/08/20	SCF		
19	FIELD CORRECTIONS	08/08/20	SCF		
20	FIELD CORRECTIONS	08/08/20	SCF		
21	FIELD CORRECTIONS	08/08/20	SCF		

EVERSOURCE ENERGY

PACKERS FALLS S/S TO STR 53
34.5kV DISTRIBUTION LINE
MILE SHEET
DATE: 09/03/2016
SCALE: H=1"=200', V=1"=20'

DES: EDR
CHKD: CKK
DRW: SCF
APP: RJP

TOWN: DURHAM

TRANSMISSION LINE: 3162

MILE NO: 1

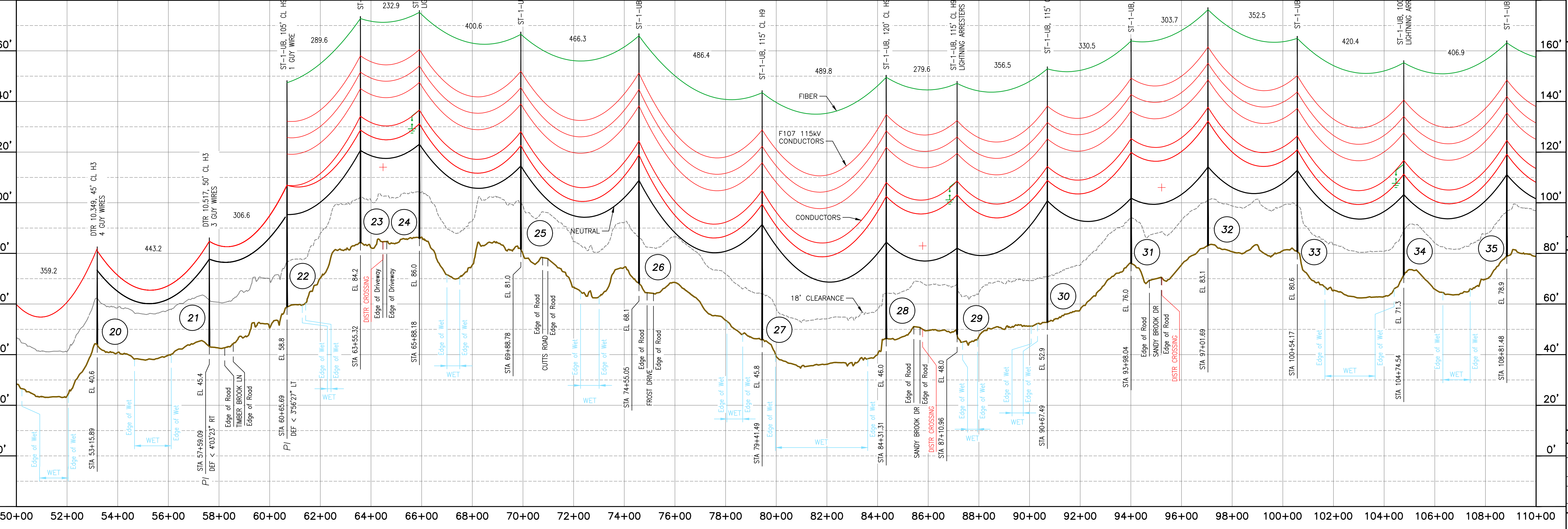
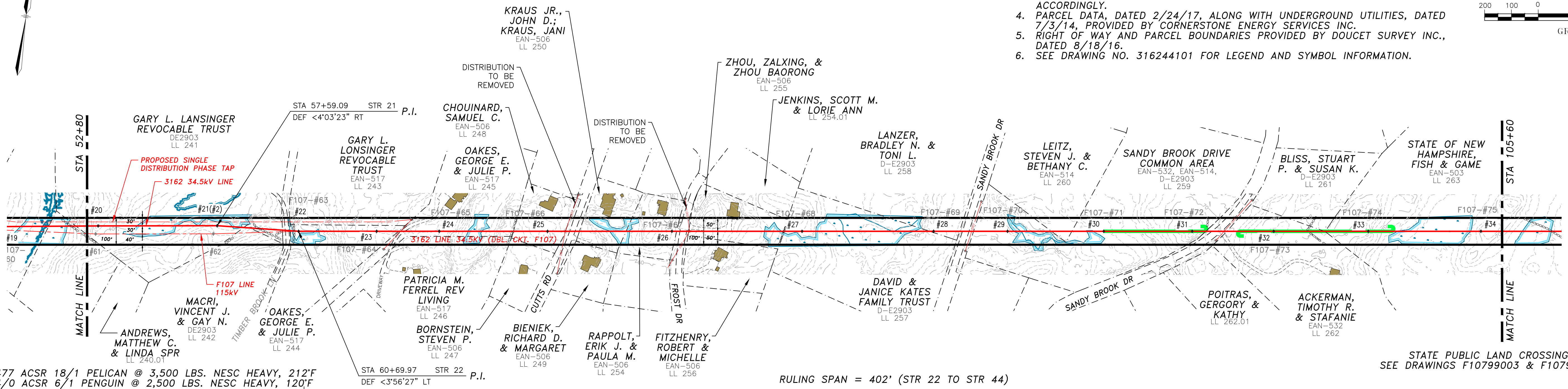
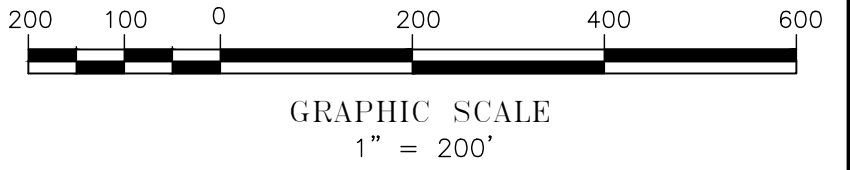
DISCIPLINE/SHT NO.

SHEET 1 OF 4
316244001

DURHAM, N. H.

THIS PLAN FOR REFERENCE ONLY.
NO REPRESENTATION OR WARRANTY IS
MADE AS TO LOCATION OF
BOUNDARIES OR OTHER POINTS OF
REFERENCE

- NOTES:
- SEE DRAWING NO. F10743001 FOR TRANSMISSION DATA.
 - NEUTRAL STANDARD GROUND CLEARANCE 18" (DTR 04.115).
 - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 - SEE DRAWING NO. 316244101 FOR LEGEND AND SYMBOL INFORMATION.



NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUED FOR CONSTRUCTION	03/01/19	RWP	KMS	APJ
2	AS-BUILT	06/08/20	SCF	KMS	APJ
3	REVISED FOR CONSTRUCTION	03/01/19	RWP	KMS	APJ
4	REVISION				

EVERSOURCE ENERGY

PACKERS FALLS S/S TO STR 53
34.5KV DISTRIBUTION LINE
MILE SHEET

DES: EDR CHK: KMS
DRW: SCF APR: APJ

TOWN:
DURHAM

TRANSMISSION LINE:
3162

MILE NO: 2

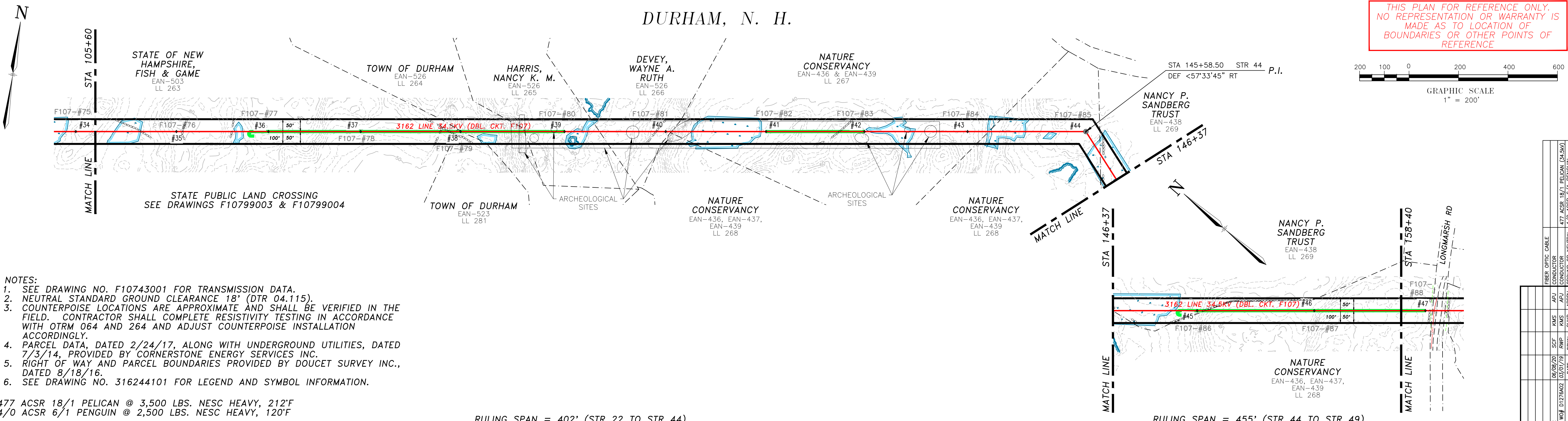
DISCIPLINE/SHT NO.

SHEET 2 OF 4
316244001

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DURHAM, N. H.

THIS PLAN FOR REFERENCE ONLY.
NO REPRESENTATION OR WARRANTY IS
MADE AS TO LOCATION OF
BOUNDARIES OR OTHER POINTS OF
REFERENCE

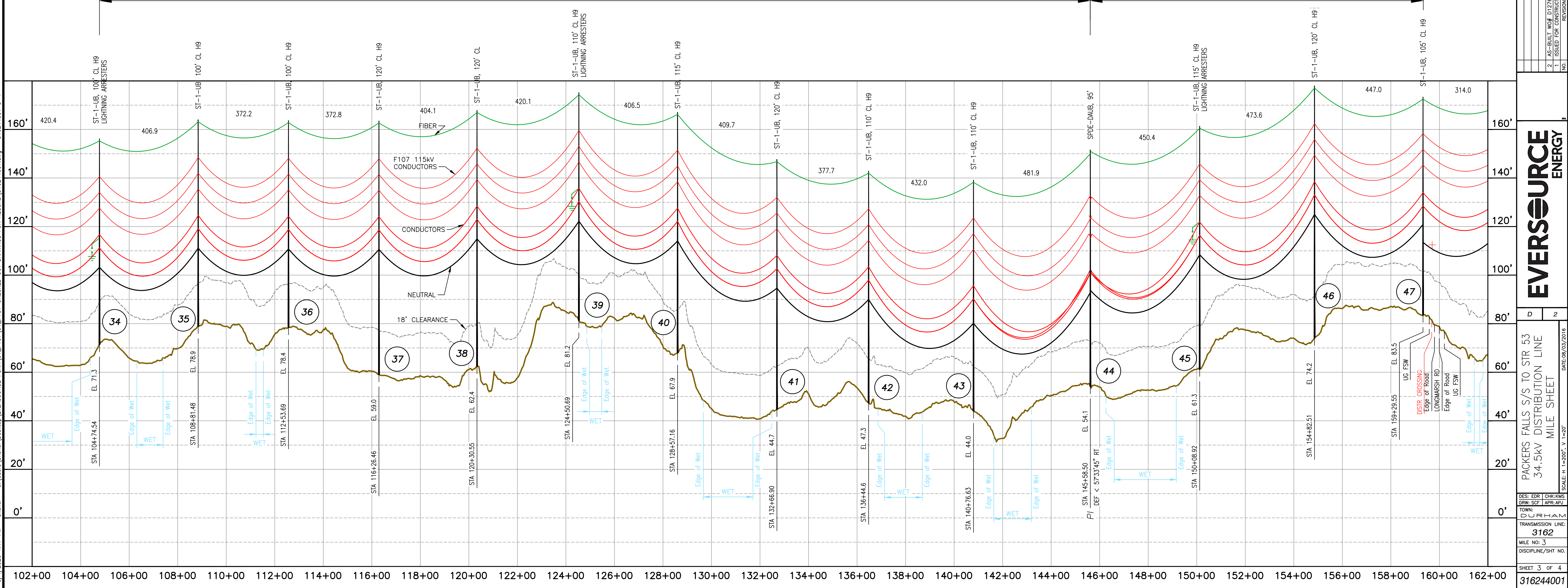


- NOTES:
- SEE DRAWING NO. F10743001 FOR TRANSMISSION DATA.
 - NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
 - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 - SEE DRAWING NO. 316244101 FOR LEGEND AND SYMBOL INFORMATION.

477 ACSR 18/1 PELICAN @ 3,500 LBS. NESC HEAVY, 212'F
 4/0 ACSR 6/1 PENGUIN @ 2,500 LBS. NESC HEAVY, 120'F

RULING SPAN = 402' (STR 22 TO STR 44)

RULING SPAN = 455' (STR 44 TO STR 49)



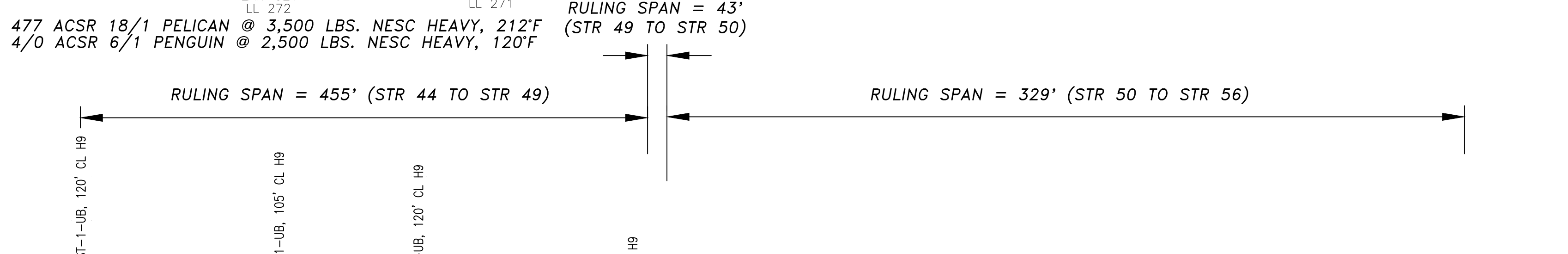
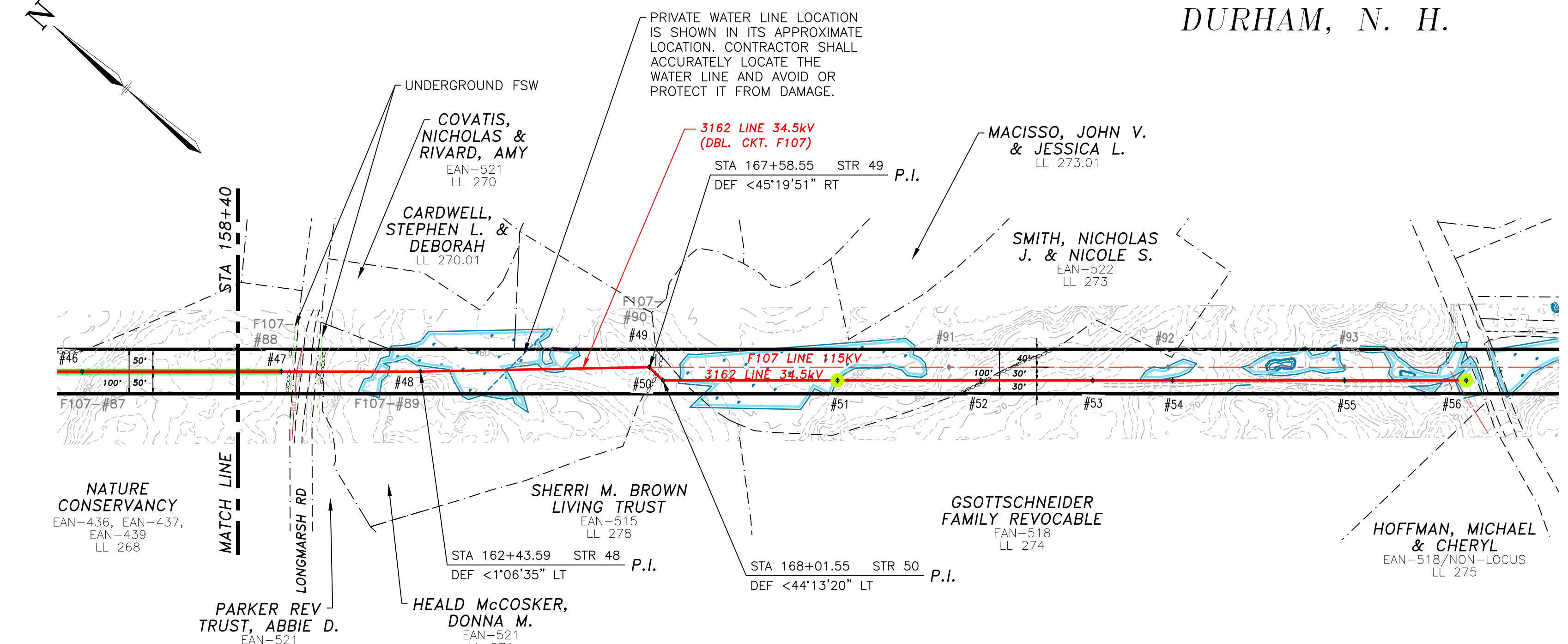
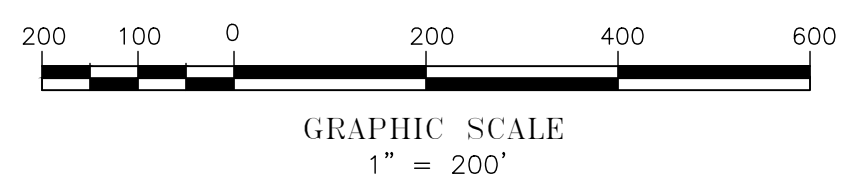
NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUED FOR CONSTRUCTION	03/01/19	RWP	KUS	APJ
2	AS-BUILT	08/08/20	SCF	KUS	APJ

EVERSOURCE
ENERGY

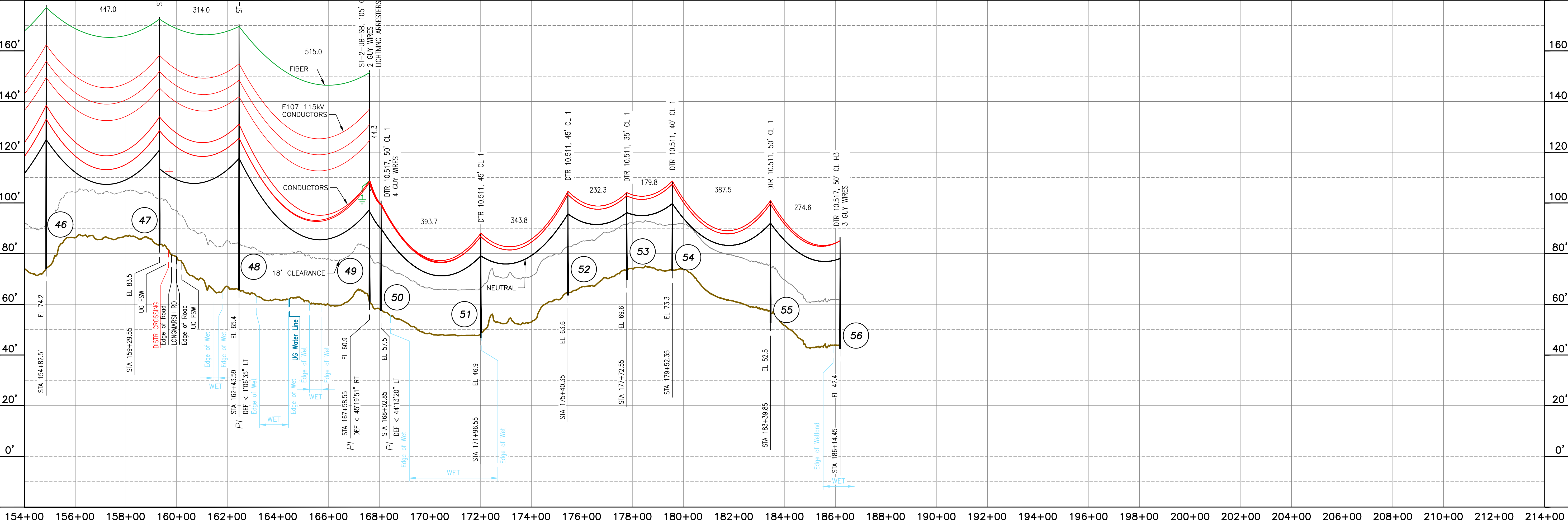
PACKERS FALLS S/S TO STR 53
 34.5KV DISTRIBUTION LINE
 MILE SHEET
 SHEET 3 OF 4
 316244001

DURHAM, N. H.

THIS PLAN FOR REFERENCE ONLY.
NO REPRESENTATION OR WARRANTY IS
MADE AS TO LOCATION OF
BOUNDARIES OR OTHER POINTS OF
REFERENCE



- NOTES:
1. SEE DRAWING NO. F10743001 FOR TRANSMISSION DATA.
 2. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
 3. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
 4. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 5. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.
 6. SEE DRAWING NO. 316244101 FOR LEGEND AND SYMBOL INFORMATION.



NO.	REVISION	DATE	BY	CHKD	APPRV.
1	ISSUED FOR CONSTRUCTION	03/01/19	RWP	KMS	APJ
2	AS-BUILT	06/08/20	SCF	KMS	APJ
	FIELD REV. CABLE				
	CONDUCTOR				
	CONDUCTOR				
	GROUND OR NEUTRAL				

EVERSOURCE ENERGY

PACKERS FALLS S/S TO STR 53
34.5KV DISTRIBUTION LINE
MILE SHEET

DES: EDR CHK: KMS
DRW: SCF APR: APJ

TOWN:
DURHAM

TRANSMISSION LINE:
3162

MILE NO: 4
DISCIPLINE/SHT NO.

SHEET 4 OF 4
316244001

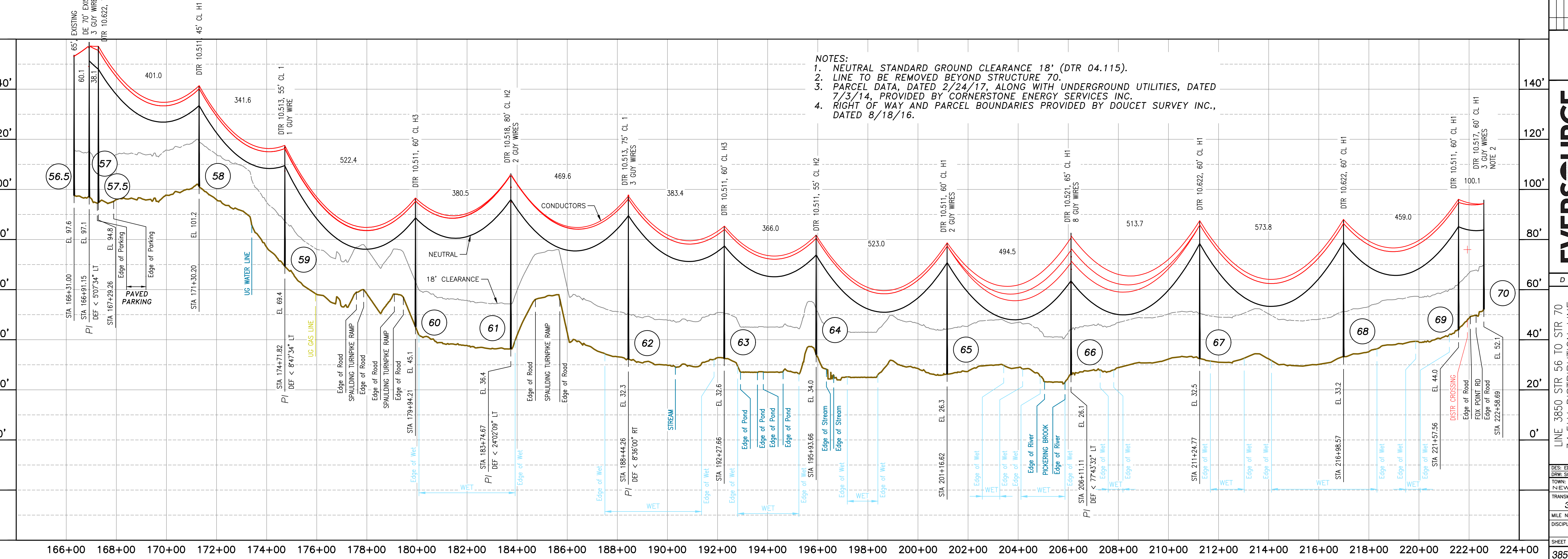
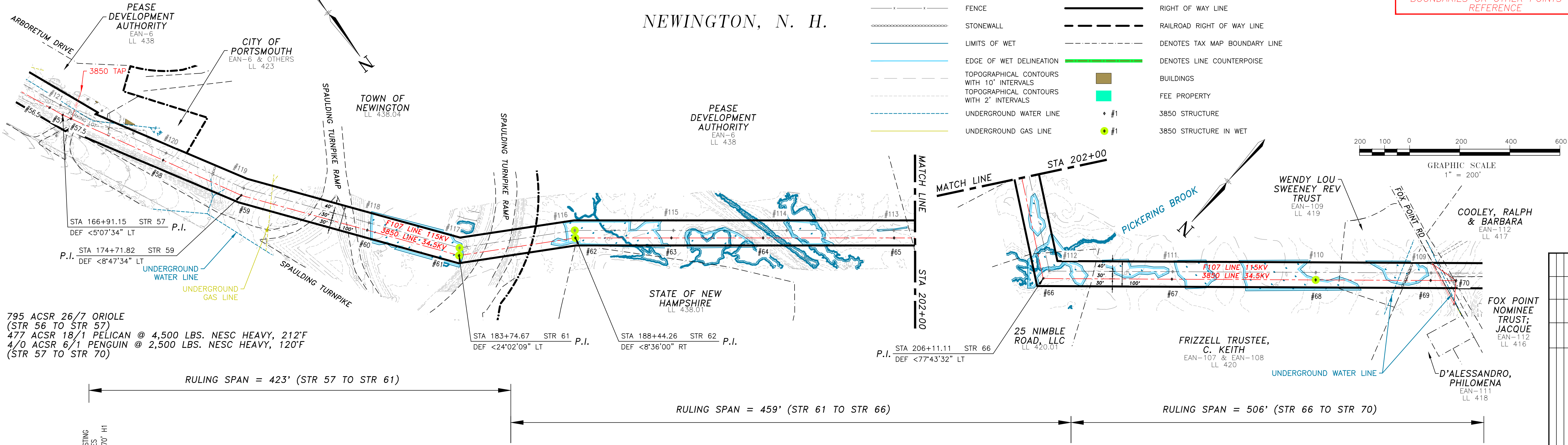
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NEWINGTON, N. H.

3850 PLAN AND PROFILE LEGEND:

THIS PLAN FOR REFERENCE ONLY. NO REPRESENTATION OR WARRANTY IS MADE AS TO LOCATION OF BOUNDARIES OR OTHER POINTS OF REFERENCE.

- FENCE
- STONEWALL
- LIMITS OF WET
- EDGE OF WET DELINEATION
- TOPOGRAPHICAL CONTOURS WITH 10' INTERVALS
- TOPOGRAPHICAL CONTOURS WITH 2' INTERVALS
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- RIGHT OF WAY LINE
- RAILROAD RIGHT OF WAY LINE
- DENOTES TAX MAP BOUNDARY LINE
- DENOTES LINE COUNTERPOISE
- BUILDINGS
- FEE PROPERTY
- 3850 STRUCTURE
- 3850 STRUCTURE IN WET



- NOTES:
1. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
 2. LINE TO BE REMOVED BEYOND STRUCTURE 70.
 3. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
 4. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

NO.	REVISION	DATE	BY	CHKD	APPR.	GROUND OR NEUTRAL	4/0 ACSR 6/1 PENGUIN
1	ISSUED FOR CONSTRUCTION	06/09/20	PAJ	KUS	APJ	CONDUCTOR	477 ACSR 19/1 PELICAN (34.5KV)
2	AS-BUILT	03/27/2023	SCF	KUS	APJ	CONDUCTOR	

EVERSOURCE ENERGY

LINE 3850 STR 56 TO STR 70
34.5KV DISTRIBUTION LINE
MILE SHEET

DATE: 06/03/2016

DES: EDR CHK: KUS
DRAW: SCF APR: APJ

TOWN: NEWINGTON

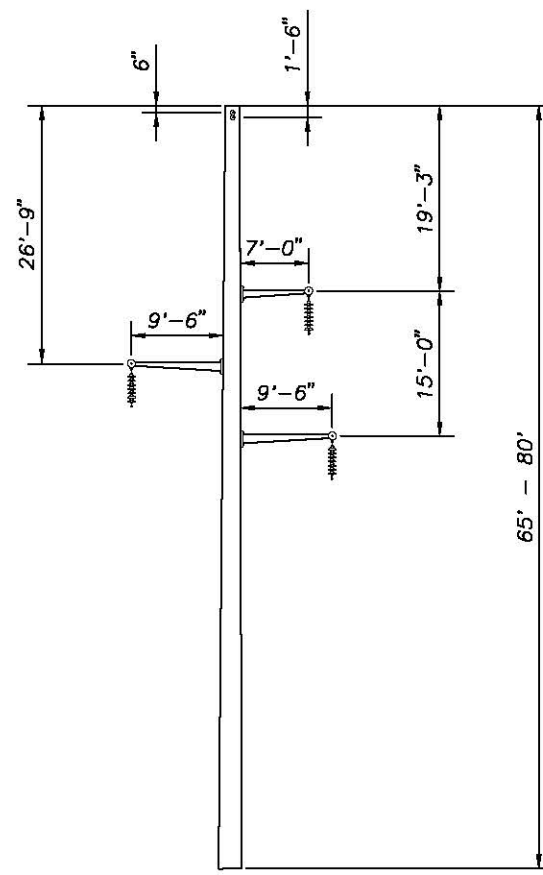
TRANSMISSION LINE: 3850

MILE NO: 1

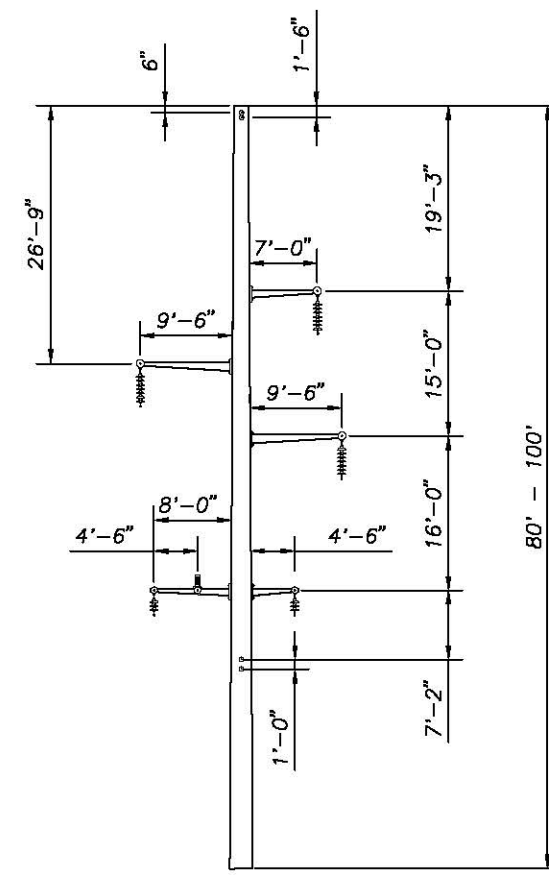
DISCIPLINE/SHT NO.

SHEET 1 OF 1

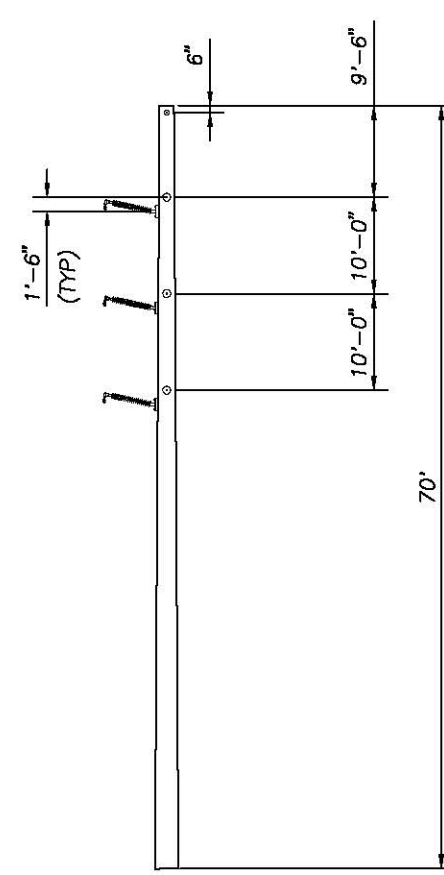
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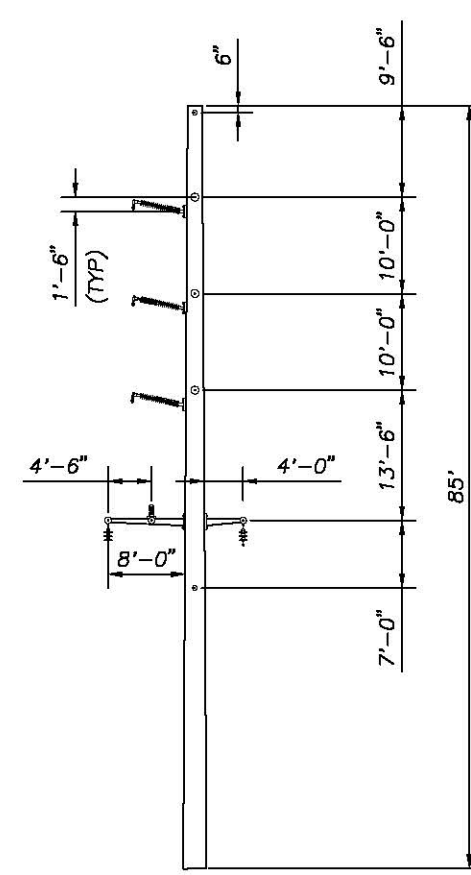
TYPE SPDE
SELF SUPPORTING STEEL
DEADEND
115 KV
DRILLED PIER FOUNDATION



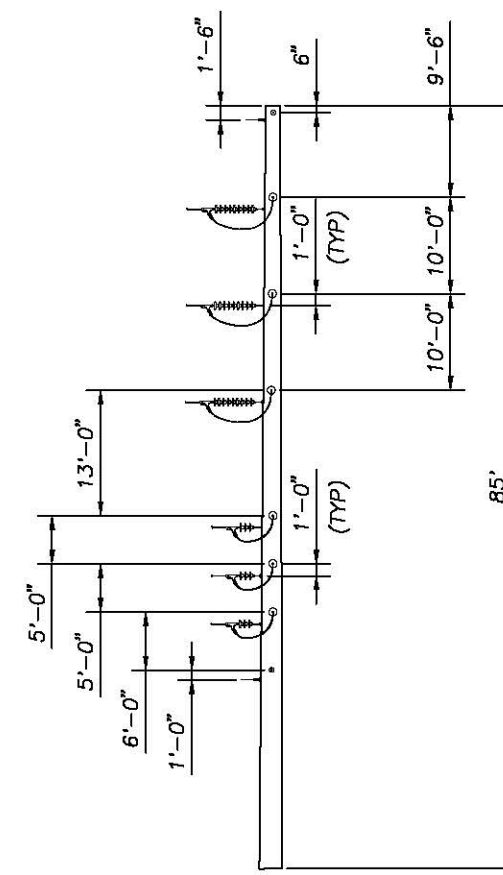
TYPE SPDE-DAUB
SELF SUPPORTING STEEL
DEADEND
115 KV WITH 34.5 KV UNDERBUILD
DRILLED PIER FOUNDATION



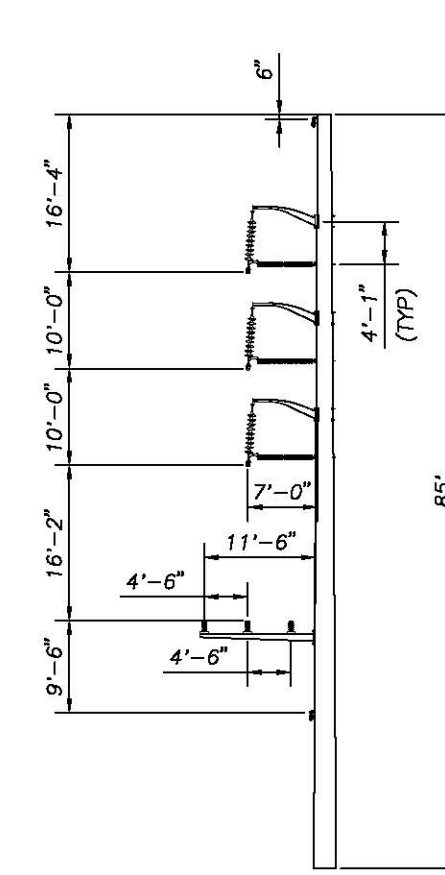
TYPE SPDE-2
SELF SUPPORTING STEEL
DEADEND
115 KV
DRILLED PIER FOUNDATION



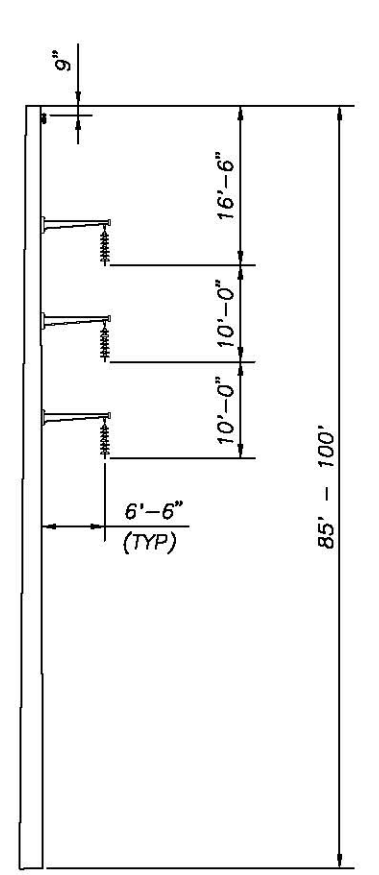
TYPE SPDE-2-UBDA
SELF SUPPORTING STEEL
DEADEND
115 KV WITH 34.5 KV UNDERBUILD
DRILLED PIER FOUNDATION



TYPE SPDE-VUB
SELF SUPPORTING STEEL
DEADEND
115 KV WITH 34.5 KV UNDERBUILD
DRILLED PIER FOUNDATION

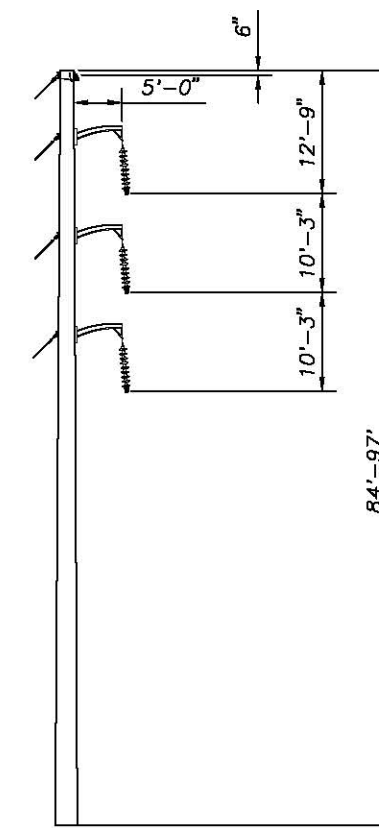


TYPE SPT-UB
SELF SUPPORTING STEEL
0° - 10° BRACED POST TANGENT/ANGLE
115 KV WITH 34.5 KV UNDERBUILD
DRILLED PIER FOUNDATION

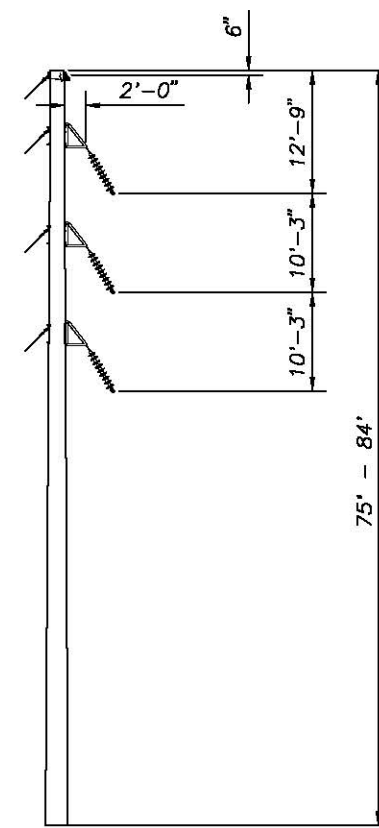


TYPE SPT
SELF SUPPORTING STEEL
TANGENT
115 KV
DRILLED PIER FOUNDATION

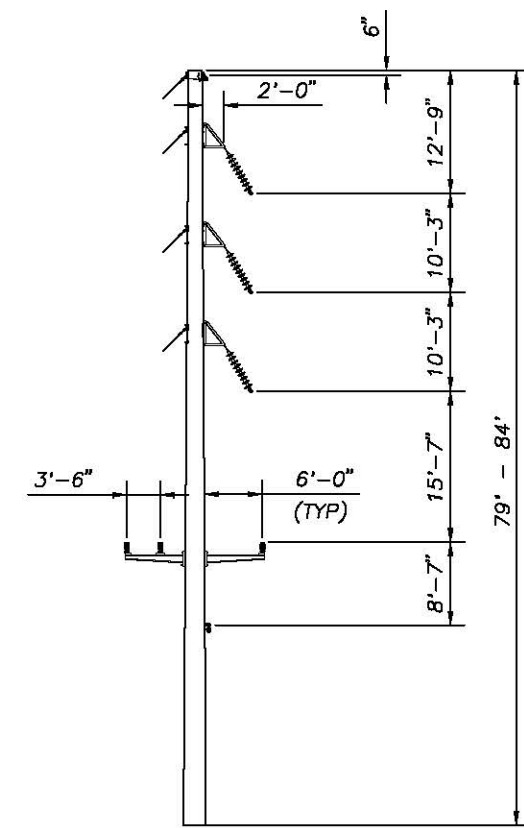
NOTE:
SELECT STRUCTURES WILL HAVE
HORIZONTAL STRUTS INSTALLED
TO LIMIT INSULATOR SWING.



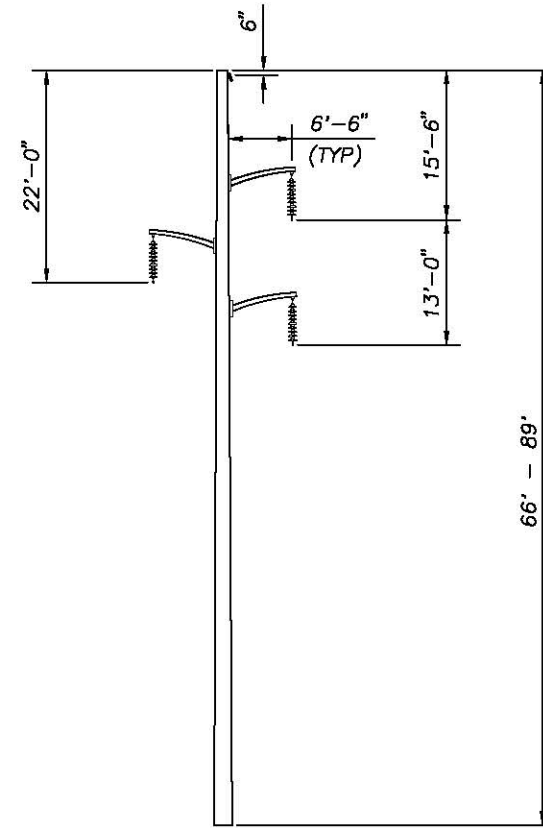
TYPE SA-1
LIGHT DUTY STEEL
GUYED SINGLE POLE
1° - 8° ANGLE
115 KV
DIRECT EMBED FOUNDATION



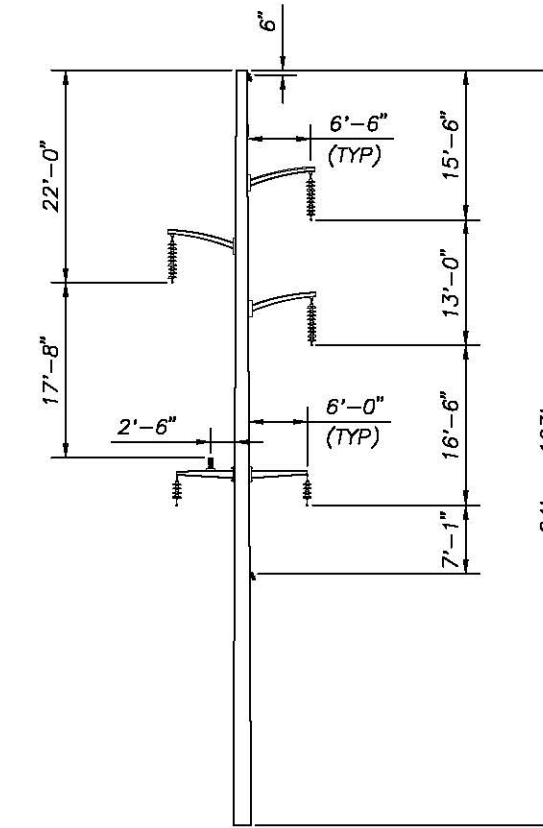
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LIGHT DUTY STEEL
GUYED SINGLE POLE
8° - 20° ANGLE
115 KV
DIRECT EMBED FOUNDATION



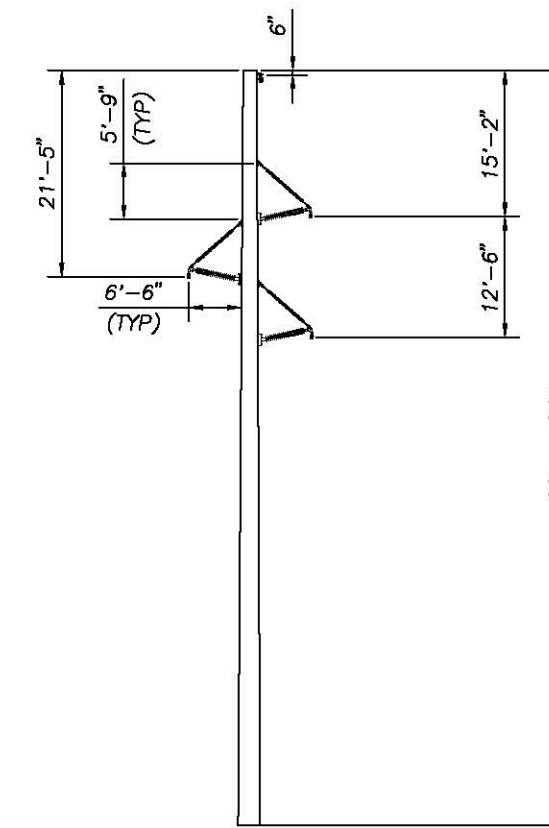
TYPE SA-2-UB
LIGHT DUTY STEEL
STEEL GUYED SINGLE POLE
8° - 20° ANGLE
115 KV WITH 34.5 KV UNDERBUILD
DIRECT EMBED FOUNDATION



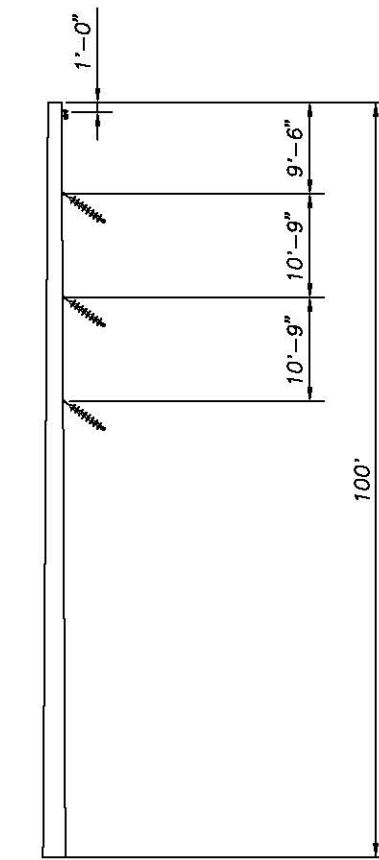
TYPE ST-1
LIGHT DUTY STEEL SINGLE POLE
TANGENT
115 KV
DIRECT EMBED FOUNDATION
NOTE:
SELECT STRUCTURES WILL HAVE
HORIZONTAL STRUTS INSTALLED
TO LIMIT INSULATOR SWING.



TYPE ST-1-UB
LIGHT DUTY STEEL SINGLE POLE
TANGENT
115 KV WITH 34.5 KV UNDERBUILD
DIRECT EMBED FOUNDATION
NOTE:
SELECT STRUCTURES WILL HAVE
HORIZONTAL STRUTS INSTALLED
TO LIMIT INSULATOR SWING.

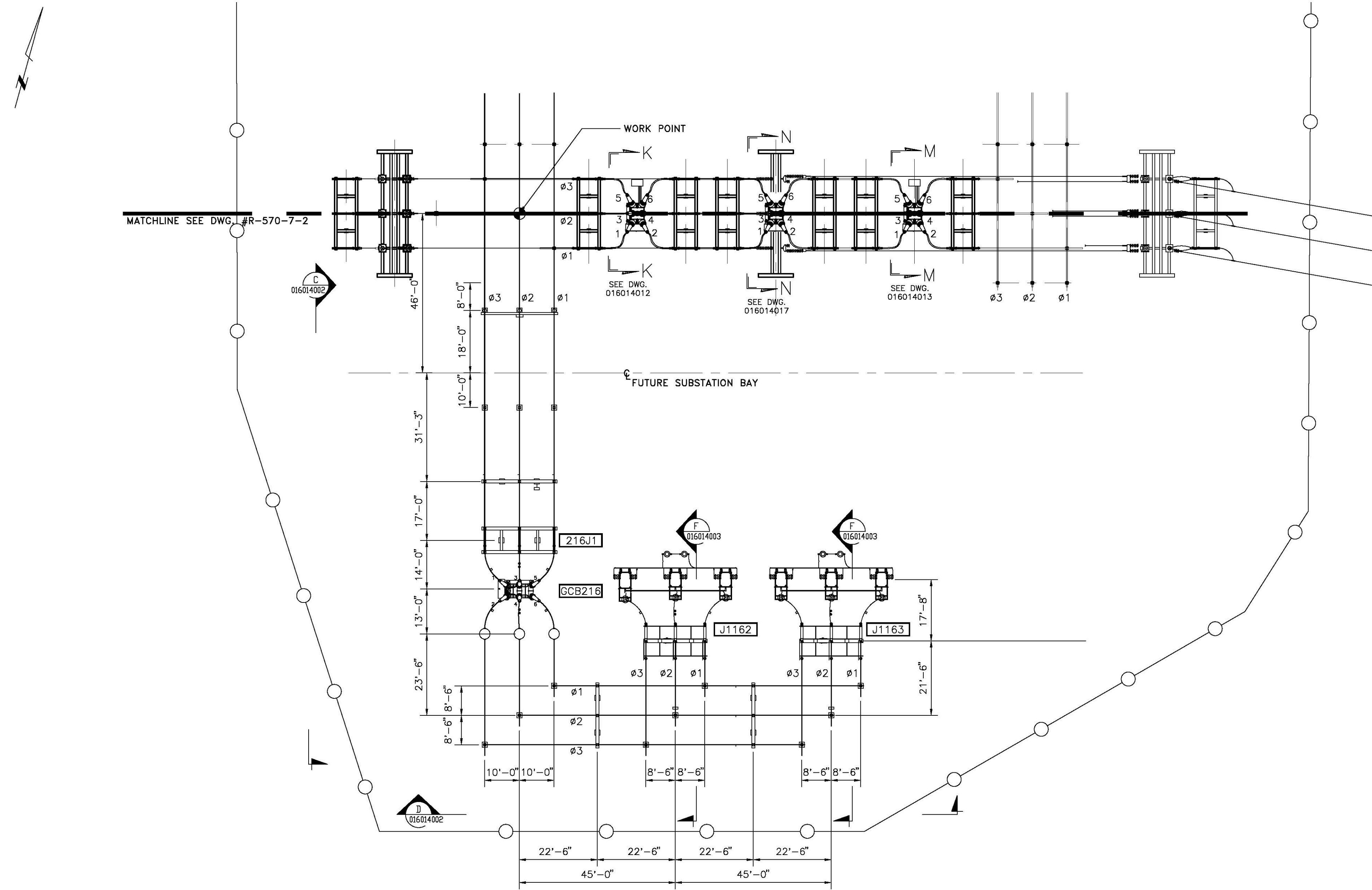


TYPE ST-2-SB
LIGHT DUTY STEEL SINGLE POLE
BRACED POST TANGENT
115 KV
DIRECT EMBED FOUNDATION



TYPE SPRA
SELF SUPPORTING STEEL SINGLE POLE
25° ANGLE
115 KV
DRILLED PIER

CONTRACT SERVICES										T 1	
REV	DESCRIPTION	ENG/PE#	DATE	DRN	CHKD	APPR	EVSOURCE ENERGY		DRAWN SCF		
							TYPE 115 KV STANDARD STRUCTURE INDEX SEACOAST RELIABILITY PROJECT SHEET 1 OF 2		ENGINEER KMS		
							DATE 9/2/14		CHECKED APJ		
							APPROVED		DATE 9/2/14		
1	AS-BUILT WO# T1276A1	06/08/20	SCF	KMS	APJ	SCALE NTS	FILE: F10705000.DWG	DRAWING NO. F10705000			
DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR	IMAGD				



- REFERENCES:**
- R-570-2 GENERAL ARRANGEMENT PLAN
 - 016014012 SECTION VIEW AND DETAILS - GCB 282
 - 016014013 SECTION VIEW AND DETAILS - GCB 281
 - 016014001 GENERAL ARRANGEMENT PLAN
 - 016014012 SECTION VIEW AND DETAILS - GCB 282
 - 016014013 SECTION VIEW AND DETAILS - GCB 281
 - 016014014 SECTION VIEW AND DETAILS - GCB 752 & 7583

CONTRACT SERVICES							DRAWN FOR REVISION R8465						
REV	DESCRIPTION	ENG/PE#	DATE	DRN	CHKD	APPR	<div style="text-align: center;"> <p>GENERAL ARRANGEMENT PLAN MADBURY SUBSTATION</p> </div>					T	5
5	AS-BUILT - WO#11276B1 - EPN 8465		05/20	LEIDOS	SAH	CSO						DRAWN	MB-PEI
4	IFC - ELE WO#11276B1 - EPN 8465	W/C/13517	09/17	LEIDOS	SAH	ABG						ENGINEER	JWC-PEI
3	AS BUILT - ELE - EPN 9008-9013		07/17	LEIDOS	SAH	BAB						CHECKED	WFC-PEI
2	IFC ELE - EPN 9008-9013	W/C/13517	08/16	LEIDOS	SAH	BAB						APPROVED	VGD-PSNH
1	RECORD DRAWING		9-8-05	MB	LLM	WFC	DATE	11/10/04					
DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR	SCALE: 1"=20'		FILE: 016014001.DWG	DRAWING NO. 016014001			

ES: VER: 11/2015
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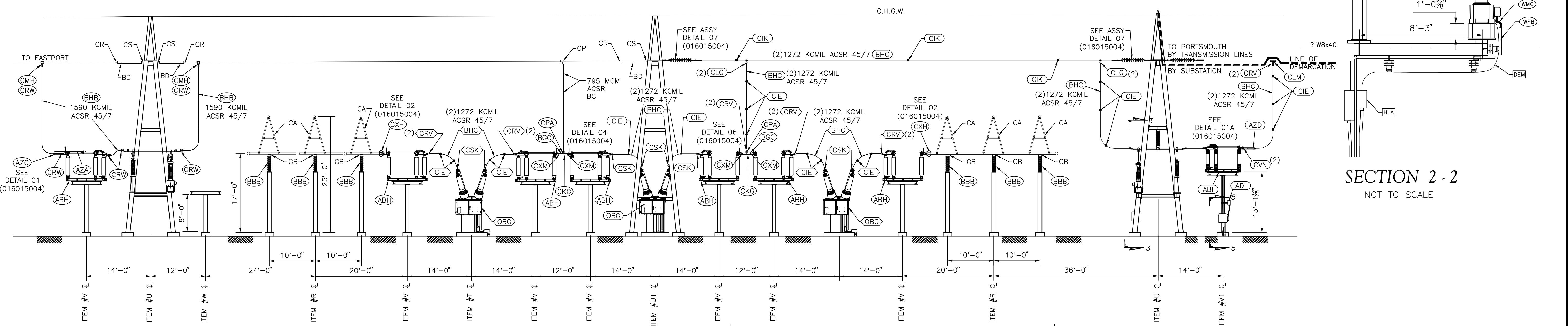
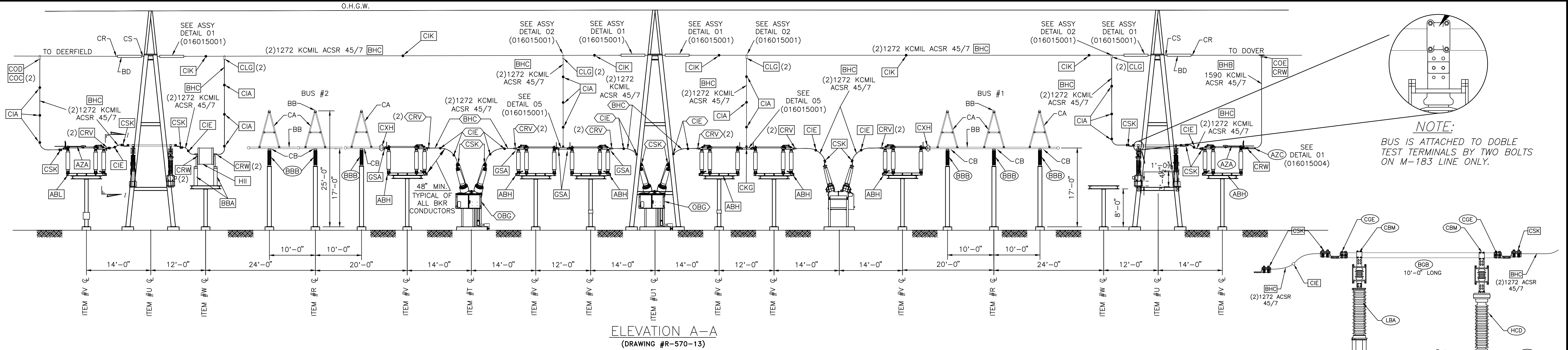
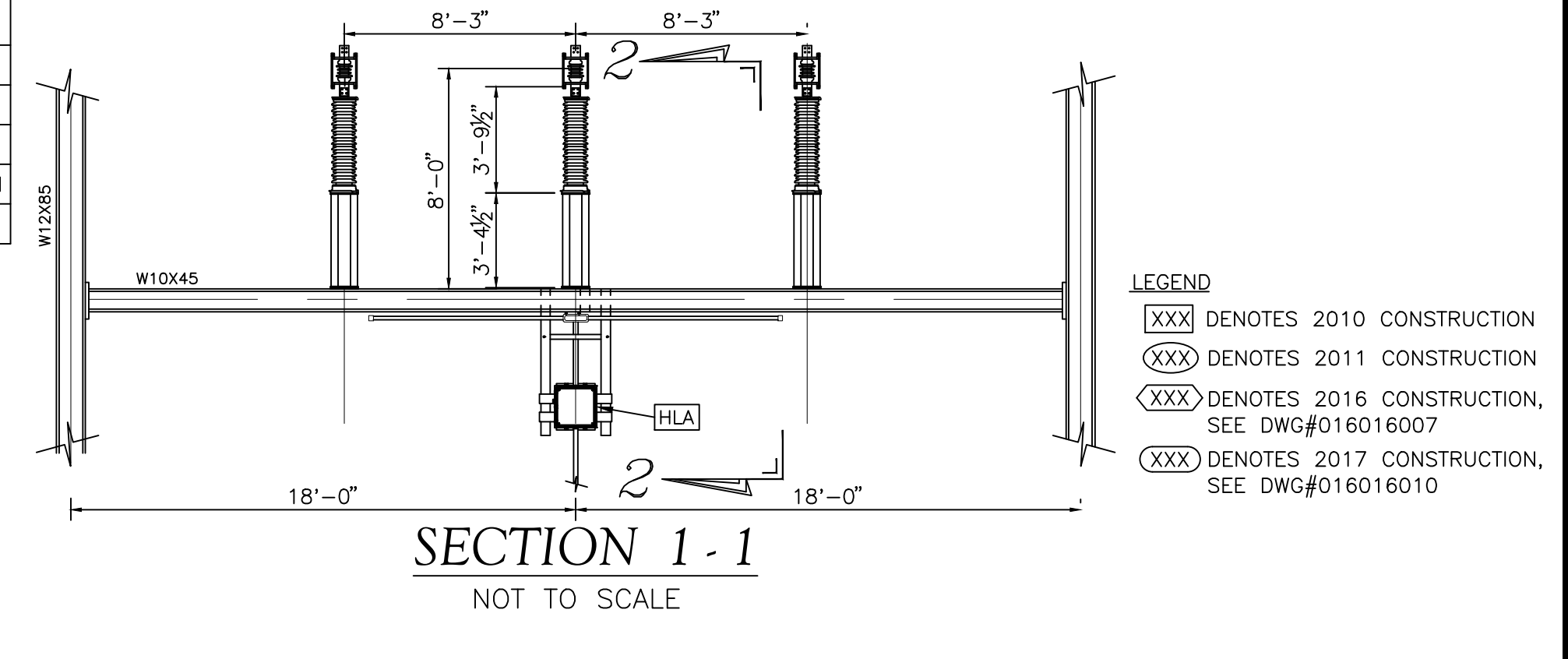
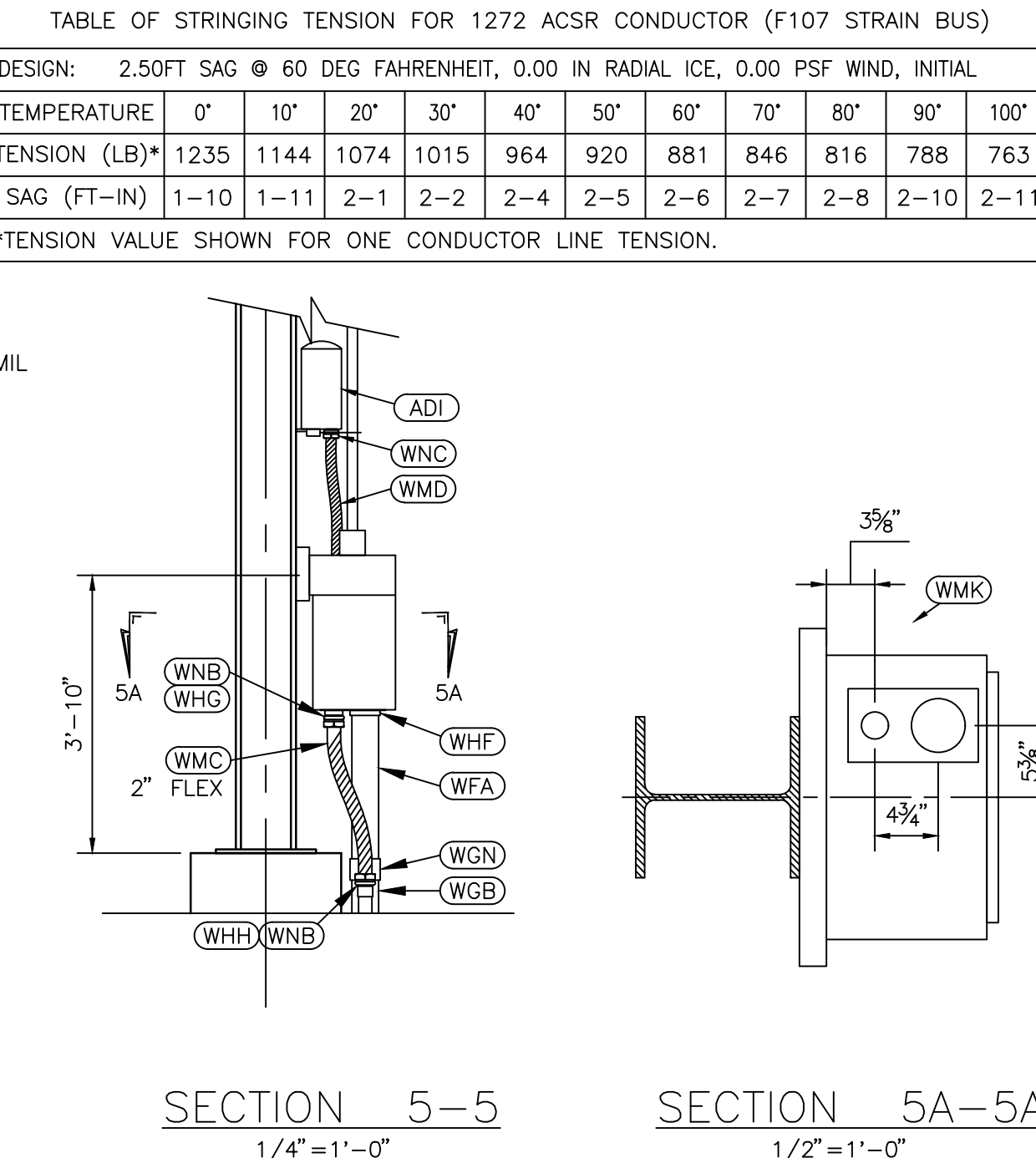
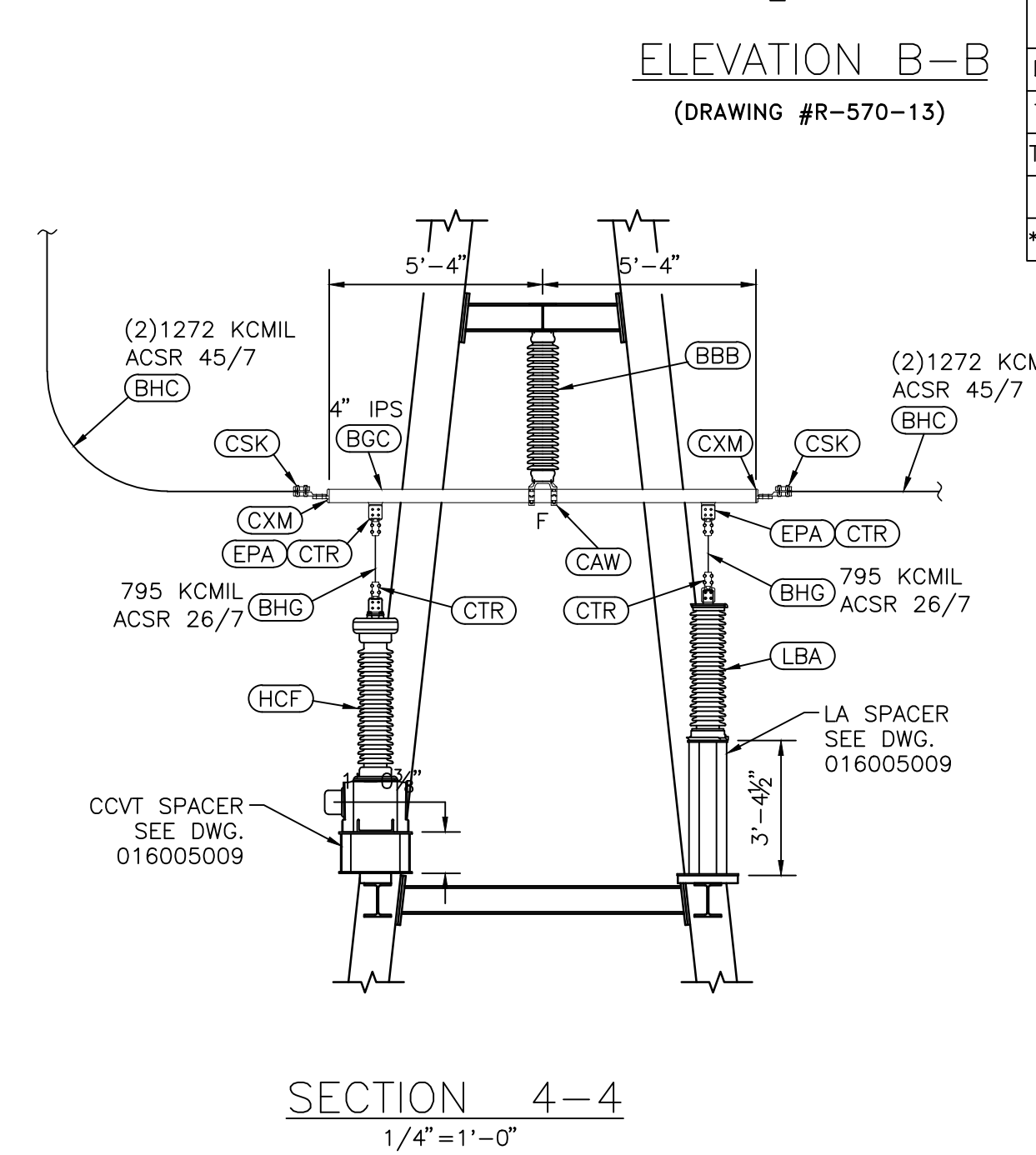
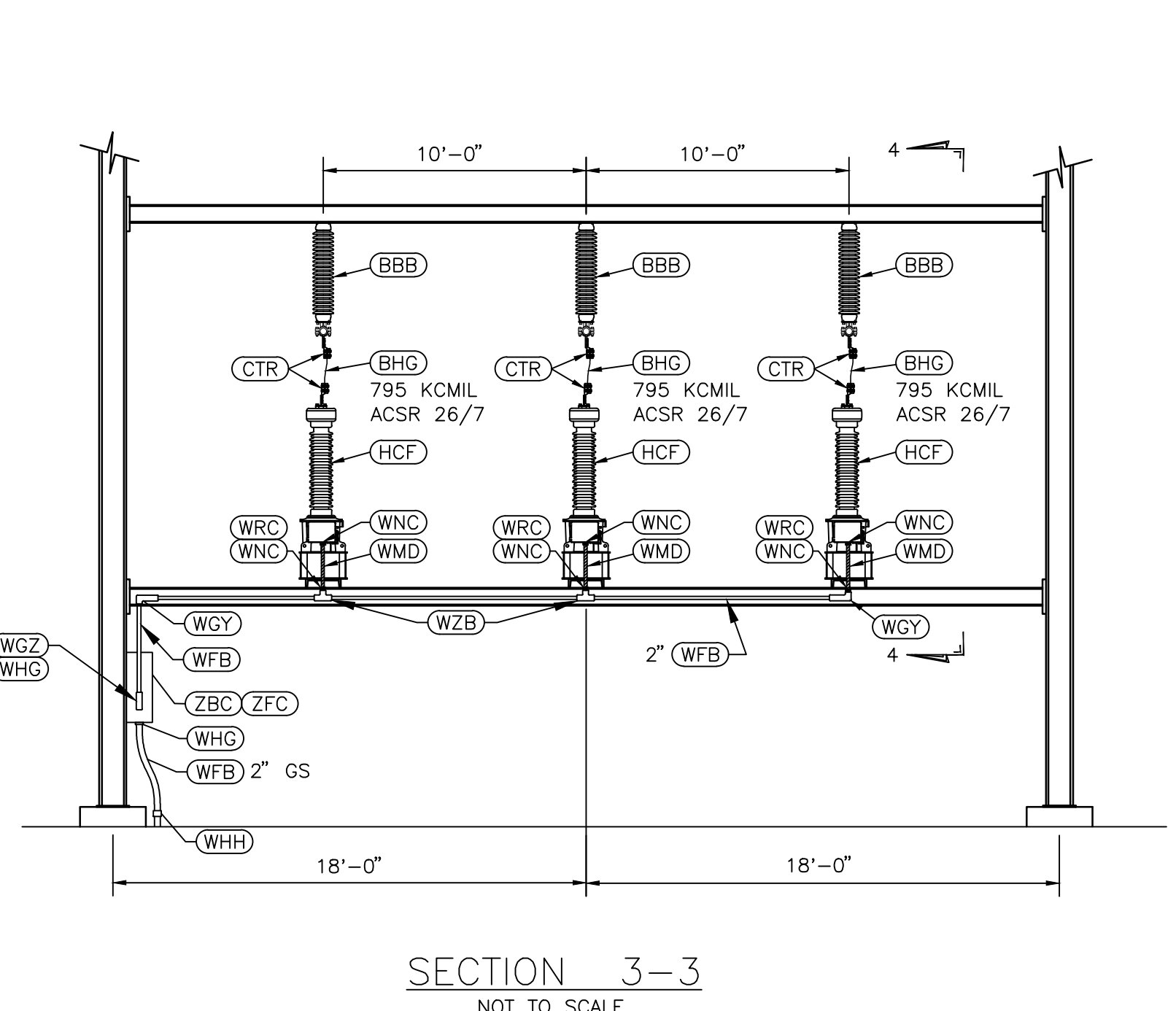


TABLE OF STRINGING TENSION FOR 1272 ACSR CONDUCTOR (F107 STRAIN BUS)

DESIGN: 2.50FT SAG @ 60 DEG FAHRENHEIT, 0.00 IN RADIAL ICE, 0.00 PSF WIND, INITIAL

TEMPERATURE	0'	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'
TENSION (LB)*	1235	1144	1074	1015	964	920	881	846	816	788	763
SAG (FT-IN)	1-10	1-11	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-10	2-11

*TENSION VALUE SHOWN FOR ONE CONDUCTOR LINE TENSION.



SECTION 2-2
NOT TO SCALE

LEGEND

- XXX DENOTES 2010 CONSTRUCTION
- XXX DENOTES 2011 CONSTRUCTION
- XXX DENOTES 2016 CONSTRUCTION, SEE DWG#016016007
- XXX DENOTES 2017 CONSTRUCTION, SEE DWG#016016010

DRAWN FOR REVISION R8465

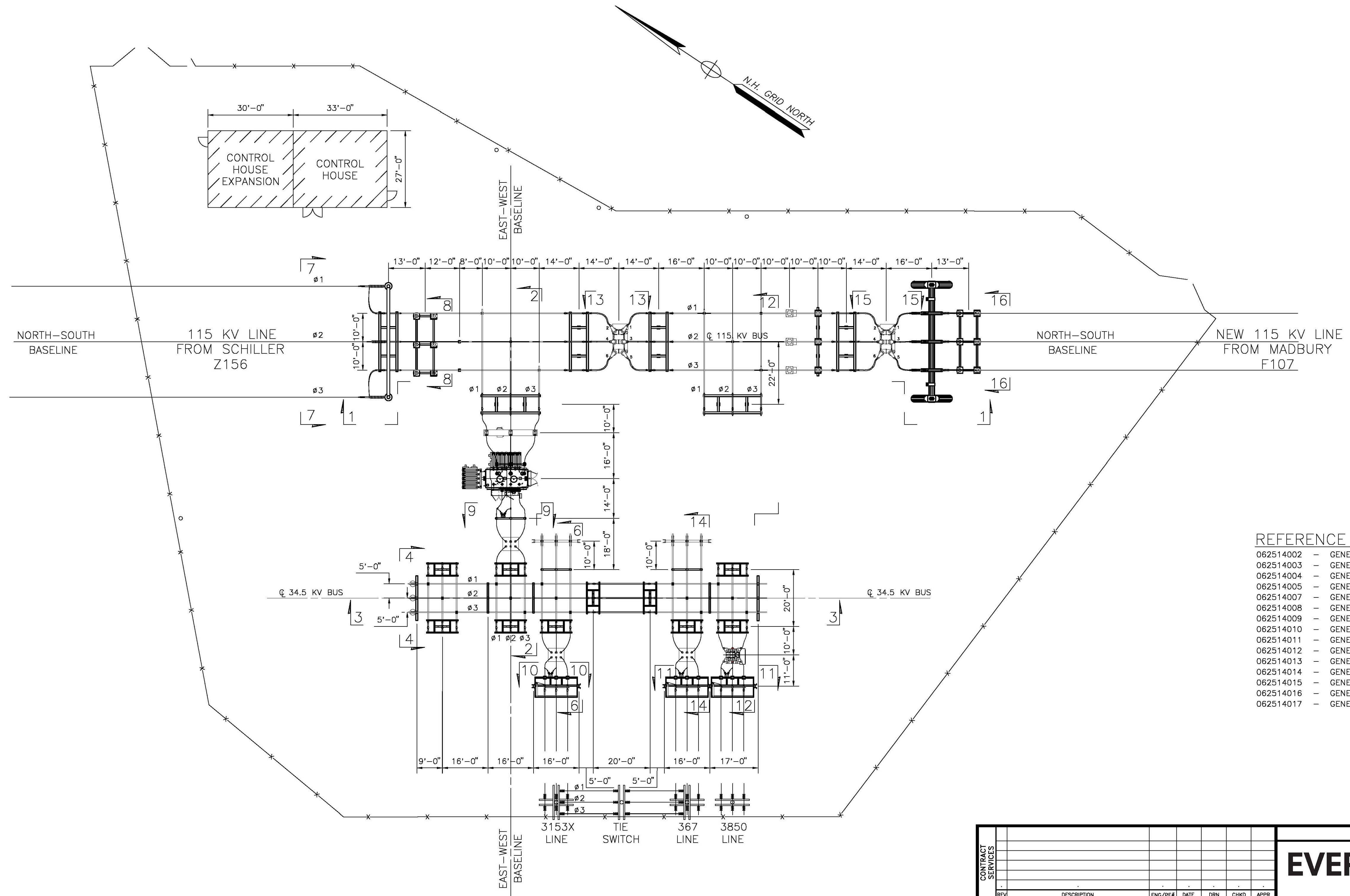
CONTRACT SERVICES				
REV	DESCRIPTION	ENG/PE#	DATE	DRN
15	AS-BUILT - WO#127681 - EPN 8465		05/20	LEIDOS SAH CSJ
14	IFC - ELE WO#127681 - EPN 8465	WAC/13617	09/17	LEIDOS SAH ASB
13	AS BUILT - ELE - EPN 9008-9013		07/17	LEIDOS SAH BAB
12	IFC ELE - EPN 9008-9013	WAC/13517	08/16	LEIDOS SAH BAB
11	AS-BUILT, REV. R8428		05/20/14	JN DLG
10	ISSUED FOR CONSTRUCTION, REV. R8428	BRP/122331	11/13/13	JN DLG
9	AS-BUILT FOR REV 7262	BRP/12233	6/18/11	JTH SMA GRP
8	HOLLOW CORE INSULATOR REPL. IFC, REV 7262	BRP/12233	2/7/11	JTH SMA GRP
DWG REV	EPN/DESCRIPTION	CONT/PE#	DATE	DRN

EVERSOURCE ENERGY

GENERAL ARRANGEMENT & ELEVATIONS
MADBURY 115KV S/S
MADBURY, N.H.

T 15
DRAWN
CLG-PEI
ENGINEER
JWC-PEI
CHECKED
WFC-PEI
APPROVED
MDB-PSNH
DATE
11/18/04

SCALE: 3/32" = 1'-0" FILE: R-570-13.1.DWG DRAWING NO. R-570-13.1



- REFERENCE DRAWINGS:**
- 062514002 - GENERAL ARRANGEMENT SECTION 1-1
 - 062514003 - GENERAL ARRANGEMENT SECTION 2-2
 - 062514004 - GENERAL ARRANGEMENT SECTION 3-3
 - 062514005 - GENERAL ARRANGEMENT SECTION 4-4
 - 062514007 - GENERAL ARRANGEMENT SECTION 6-6
 - 062514008 - GENERAL ARRANGEMENT SECTION 7-7
 - 062514009 - GENERAL ARRANGEMENT SECTIONS 8-8 & 9-9
 - 062514010 - GENERAL ARRANGEMENT SECTION 10-10
 - 062514011 - GENERAL ARRANGEMENT SECTION 11-11
 - 062514012 - GENERAL ARRANGEMENT SECTION 12-12
 - 062514013 - GENERAL ARRANGEMENT SECTION 12-12 CONT'D
 - 062514014 - GENERAL ARRANGEMENT SECTION 13-13
 - 062514015 - GENERAL ARRANGEMENT SECTION 14-14
 - 062514016 - GENERAL ARRANGEMENT SECTION 15-15
 - 062514017 - GENERAL ARRANGEMENT SECTION 16-16

CONTRACT SERVICES	REV	DESCRIPTION	ENG/PE#	DATE	DRN	CHKD	APPR
	5	AS-BUILT - WO#11276C1 - EPN 8484		05/20	LEIDOS	SAH	NAL
	4	IFC ELE WO#A08N1001 EPN 9248	WIC/13517	03/19	LEIDOS	SAH	CSO
	3	IFC ELE - EPN 8464	WIC/13517	05/18	LEIDOS	SAH	NAL
	2	FINAL AS BUILDS		12/05	MAR		
	1	AS-BUILT & LINE TERMINAL		3/05	MAR	EJW	EJW
DWG REV		EPN/DESCRIPTION	CONT/PE#	DATE	DRN	CHKD	APPR

		T	5
		DRAWN	MDL
<p align="center">GENERAL ARRANGEMENT PLAN PORTSMOUTH 115/34.5 KV S/S PORTSMOUTH, NH</p>		ENGINEER	RGP
		CHECKED	RGP
<p align="center">SCALE: 1" = 20'</p>		APPROVED	RGP
		DATE	11/02
FILE: 062514001.DWG	DRAWING NO.	062514001	

