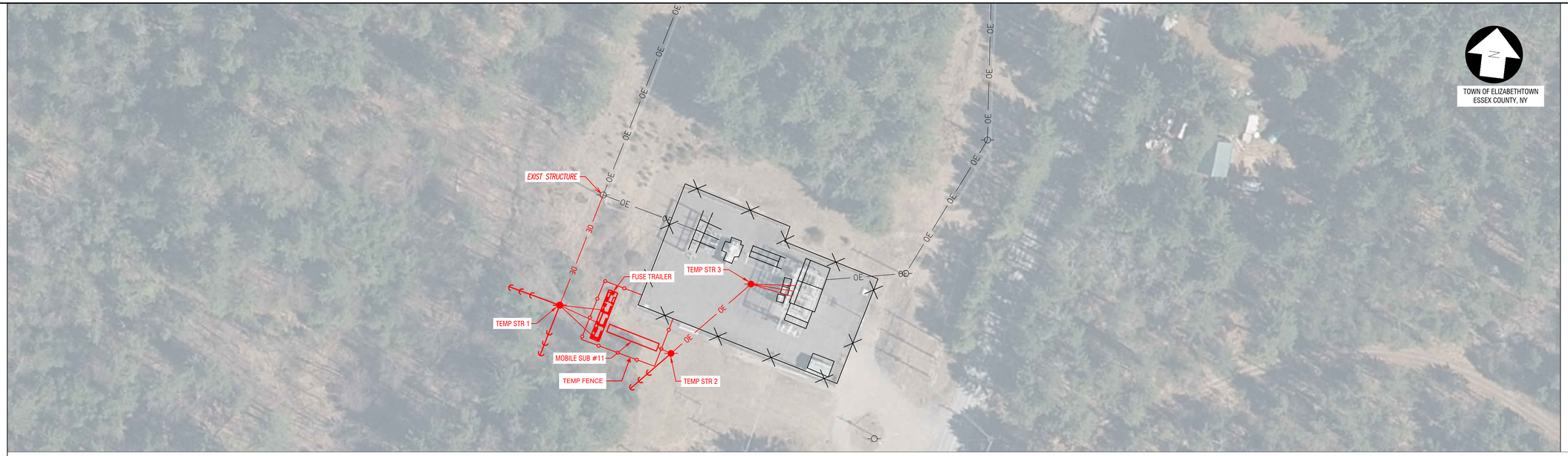


TOWN OF ELIZABETHTOWN
ESSEX COUNTY, NY

NEW YORK STATE OF OPPORTUNITY. Adirondack Park Agency

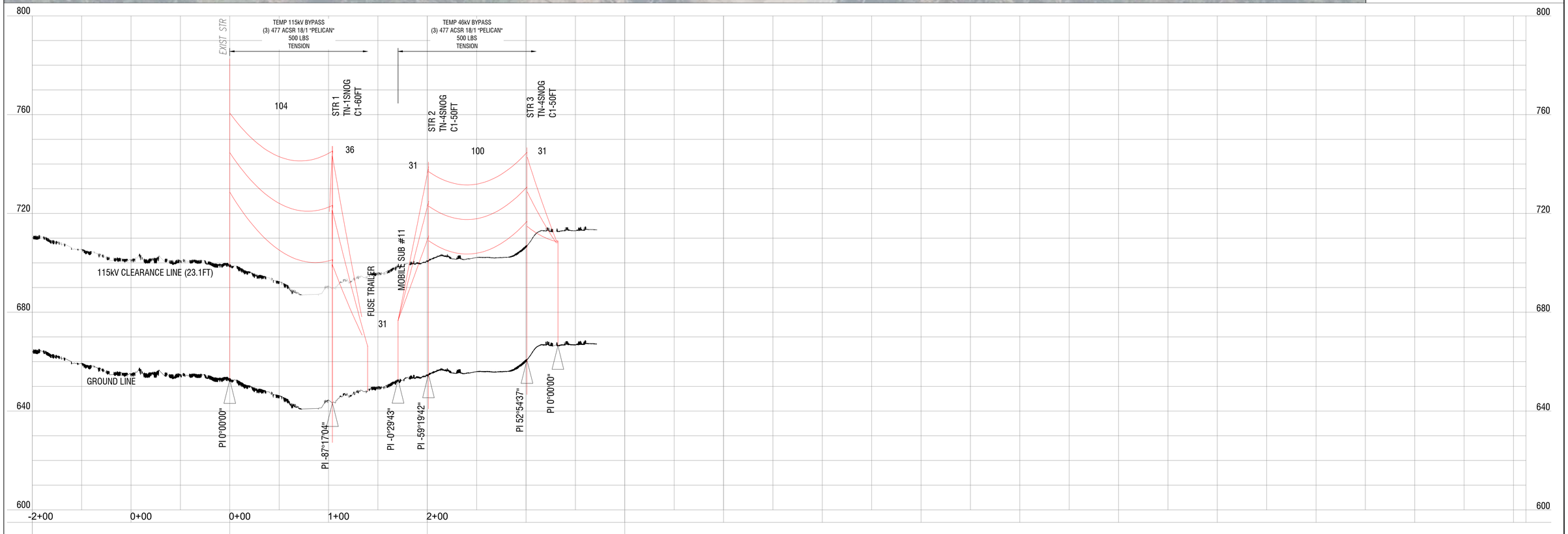
RECEIVED

Date: October 20, 2026

PLAN	SURVEYED	BY	DATE
NOTEBOOK NO.	REVIEWED		
	ROW CHKD		

SCALE

1" = 50'



PROFILE	SURVEYED	BY	DATE
NOTEBOOK NO.	REVIEWED		
	NOTES REDUCED		

SCALE

H: 1" = 50'

V: 1" = 10'

ANSI D 10/5/2026

LaBella
Powered by partnership.

LABELLA
300 STATE STREET, SUIT 201
ROCHESTER, NY 14614
585-454-6110

REV	DESCRIPTION	DATE	BY	CK	APP

UNDERBUILD CONSTRUCTION TYPE	ADSS CONDUCTOR TYPE	OHSW / OPGW TYPE	CONDUCTOR TYPE
N/A	N/A	N/S	477 KCMIL 18/1 ACSR "PELICAN"
TENSION	TENSION	TENSION	TENSION
N/A	N/A	N/A	VARIES (SEE ABOVE)
DESIGN TEMP.	DESIGN TEMP.	DESIGN TEMP.	DESIGN TEMP.
N/A	N/A	N/A	260°F

YR. CONST. W/O

NOTES:

PE STAMP

AVANGRID ENGINEERING
CONFIDENTIAL, PROPRIETARY and
TRADE SECRET INFORMATION
Property of AVANGRID

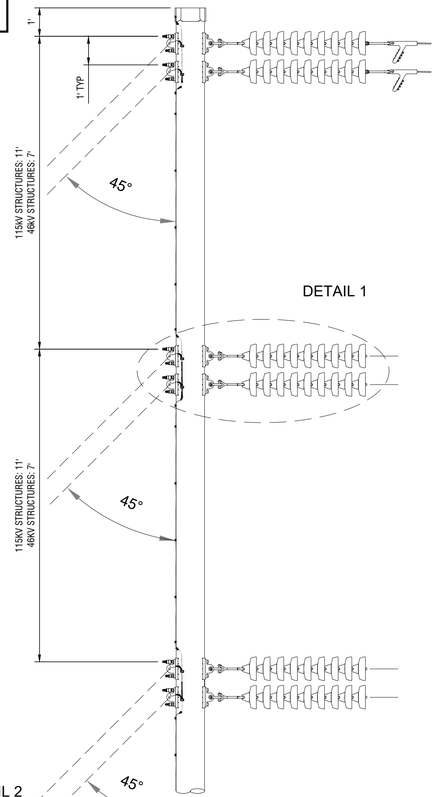
NYSEG AVANGRID

REV	DESCRIPTION	DATE	BY	CK	APP

PLAN AND PROFILE
115kV TEMPORARY LINE
BARTON BROOK S/S
ESSEX COUNTY, NY

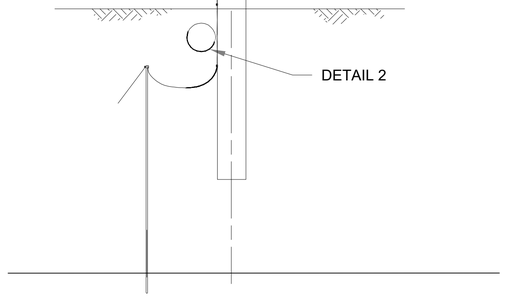
BY	SDA/LBA	MILE: 01 OF 01	FILE:
CK	ACS/LBA	NO.	REV
APP	ACS/LBA	SK-001	0A
DATE	10/02/2026		

NEW YORK STATE OF OPPORTUNITY. Adirondack Park Agency
RECEIVED
Date: October 20, 2026



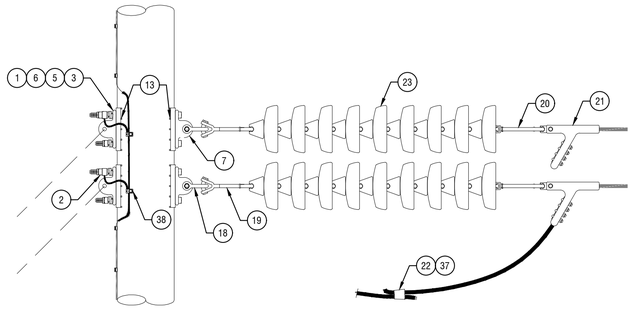
DETAIL 1

DETAIL 2



1 / SK-02 SINGLE CIRCUIT DEAD END STRUCTURE

TM2.23.TN-1SNOG & TM2.23.TN-4SNOG



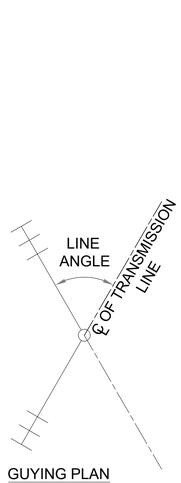
DETAIL 1: FULL TENSION DEAD END INSULATOR ASSEMBLY

BILL OF MATERIALS - 115kV STRUCTURE				
ITEM NO.	MID	QTY.	UOM	DESCRIPTION
1	30919294	12	EA	NUT LCK M-F SQ FOR 7/8" BOLT
2	30919303	12	EA	NUT SQ GALV FOR 7/8" BOLT
3*	30919196	12	EA	BOLT SQ HEAD 7/8 X 22 W/ SQ NUT
5	30919328	12	EA	WSHR LCK 2 TURN SPR GALV 7/8"
6	30923809	6	EA	CLAMP GRND WIRE U-CLIP 15/16 IN HOLE
7	30924035	8	EA	TEE DE 2H 15/16 6 MHC 1H 1-1/4 HB2817-15
18	30923932	6	EA	SHACKLE ANCH 7/8 BNK 1-1/4 OPNG 60K
19	30924092	6	EA	FTTG Y-CLV BALL S HL 9-5/16 LNG 30K
20	30924113	6	EA	FTTG SCKT BALL S HL 9-3/4 LNG 30K
21	30926095	6	EA	CLAMP BE BLT STRAIN AL 30K 0.71-1.318
22	30925985	3	EA	CONN FRD WDG 477 TO 477
23	30054297	54	EA	INSLTR DISC CL52-5 B/S 15K/30K T/ME T-GL
37	30926205	3	EA	CARTRIDGE TAP FIRED-ON CONNAMPACT YELL
38	30926037	6	EA	CONN VICE PG 8SOL TO 2SOL-3STR CU/AL

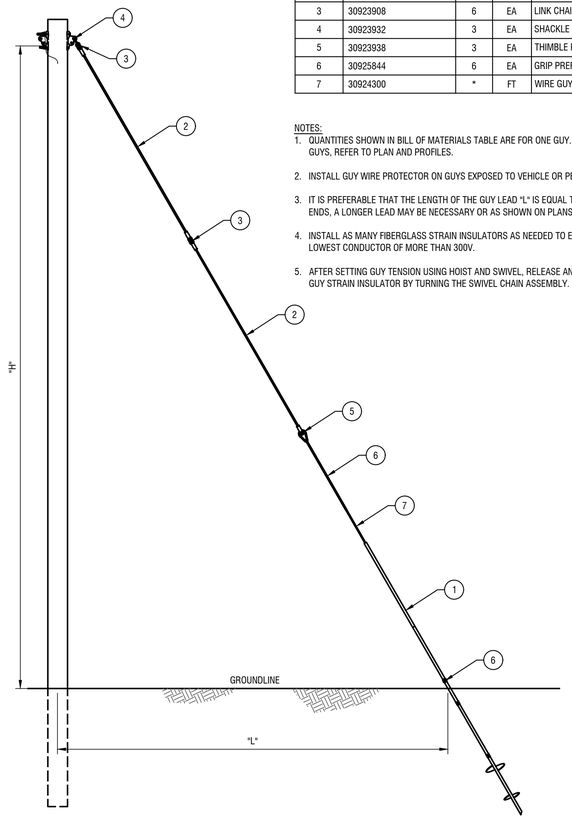
* LONGER OR SHORTER BOLTS MAY BE REQUIRED DEPENDING ON THE ACTUAL DIAMETER OF THE POLE USED.

BILL OF MATERIALS - 46kV STRUCTURE				
ITEM NO.	MID	QTY.	UOM	DESCRIPTION
1	30919294	12	EA	NUT LCK M-F SQ FOR 7/8" BOLT
2	30919303	12	EA	NUT SQ GALV FOR 7/8" BOLT
3*	30919196	12	EA	BOLT SQ HEAD 7/8 X 22 W/ SQ NUT
5	30919328	12	EA	WSHR LCK 2 TURN SPR GALV 7/8"
6	30923809	6	EA	CLAMP GRND WIRE U-CLIP 15/16 IN HOLE
7	30924035	8	EA	TEE DE 2H 15/16 6 MHC 1H 1-1/4 HB2817-15
18	30923932	6	EA	SHACKLE ANCH 7/8 BNK 1-1/4 OPNG 60K
19	30924092	6	EA	FTTG Y-CLV BALL S HL 9-5/16 LNG 30K
20	30924113	6	EA	FTTG SCKT BALL S HL 9-3/4 LNG 30K
21	30926095	6	EA	CLAMP BE BLT STRAIN AL 30K 0.71-1.318
22	30925985	3	EA	CONN FRD WDG 477 TO 477
23	30054286	30	EA	INSLTR DISC CL52-3 B/S 10K/20K T/ME T-GL
37	30926205	3	EA	CARTRIDGE TAP FIRED-ON CONNAMPACT YELL
38	30926037	6	EA	CONN VICE PG 8SOL TO 2SOL-3STR CU/AL

* LONGER OR SHORTER BOLTS MAY BE REQUIRED DEPENDING ON THE ACTUAL DIAMETER OF THE POLE USED.



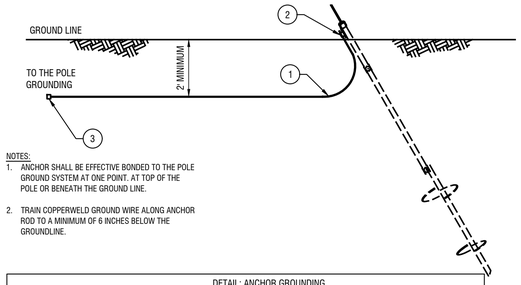
GUYING PLAN
SCALE: NTS



DETAIL 2: GUYING DETAILS

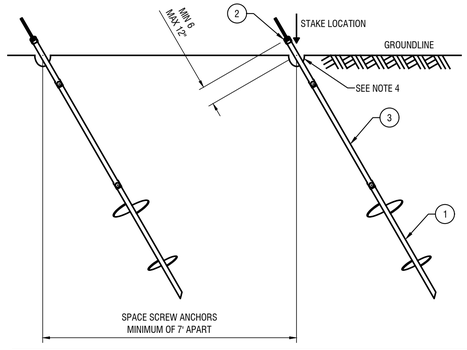
DETAIL: SINGLE GUY ASSEMBLY				
ITEM NO.	MID	QTY.	UOM	DESCRIPTION
1	30920522	3	EA	GUARD GUY YELLOW PLASTIC 8F
2	30923843	6	EA	INS GUY STRN FBRGLS 134 MHC/120 INS 50K
3	30923908	6	EA	LINK CHAIN 3/4 STK 1 X 3-1/2 IS 60K
4	30923932	3	EA	SHACKLE ANCH 7/8 BNK 1-1/4 OPNG 60K
5	30923938	3	EA	THIMBLE ROLLER 3-1/4 OD 1-1/16 HOLE
6	30925844	6	EA	GRIP PREFORM GUY 19 NO 8 ALUMOWELD
7	30924300	*	FT	WIRE GUY 19 NO 8 ALUMOWELD 0.642 DIA

NOTES:
1. QUANTITIES SHOWN IN BILL OF MATERIALS TABLE ARE FOR ONE GUY. FOR TOTAL NUMBER OF GUYS, REFER TO PLAN AND PROFILES.
2. INSTALL GUY WIRE PROTECTOR ON GUYS EXPOSED TO VEHICLE OR PEDESTRIAN TRAFFIC.
3. IT IS PREFERABLE THAT THE LENGTH OF THE GUY LEAD "L" IS EQUAL TO "H". FOR HEAVY DEAD ENDS, A LONGER LEAD MAY BE NECESSARY OR AS SHOWN ON PLANS.
4. INSTALL AS MANY FIBERGLASS STRAIN INSULATORS AS NEEDED TO EXTEND BELOW THE LOWEST CONDUCTOR OF MORE THAN 300V.
5. AFTER SETTING GUY TENSION USING HOIST AND SWIVEL, RELEASE ANY TWIST IN FIBERGLASS GUY STRAIN INSULATOR BY TURNING THE SWIVEL CHAIN ASSEMBLY.



NOTES:
1. ANCHOR SHALL BE EFFECTIVE BONDED TO THE POLE GROUND SYSTEM AT ONE POINT. AT TOP OF THE POLE OR BENEATH THE GROUND LINE.
2. TRAIN COPPERWELD GROUND WIRE ALONG ANCHOR ROD TO A MINIMUM OF 6 INCHES BELOW THE GROUNDLINE.

DETAIL: ANCHOR GROUNDING				
ITEM NO.	MID	QTY.	UOM	DESCRIPTION
1	30924223	25	FT	WIRE 1C # 2 CWLD SOL BARE 0.2576 DIA
2	30926018	1	EA	CONN H TAP 400-556 STR TO 250-556 STR
3	30925266	1	EA	CONN GRND CU CMPRN 2HYTAP YGHC



DETAIL: ANCHOR INSTALLATION				
ITEM NO.	MID	QTY.	UOM	DESCRIPTION
1	30923773	1	EA	ANCH SQS SCR 1-1/2 DBL HLX 10-12
2	30923772	1	EA	ANCH SQS GUY ADPR 1-1/2 ROD TRP EYE
3	30923770	1	EA	ANCH SQS EXT 1-1/2 ROD 37 C-C

INSTALLATION TORQUE (FT-LB)								
1500	2000	2500	3000	3500	4000	4500	5000	5500
18000	24000	30000	36000	42000	48000	54000	60000	66000
LOAD CAPACITY[1] BASED ON INSTALLATION TORQUE[2] (LBS)								

[1]LOAD CAPACITIES LISTED ARE ULTIMATE VALUES BASED ON AVERAGE TEST DATA AND ARE OFFERED AS AN APPLICATION GUIDE. TYPICAL DEFLECTION AT ULTIMATE LOAD RANGES BETWEEN 2 AND 4 INCHES. THE LISTED VALUES SHOULD BE REDUCED BY AN APPROPRIATE FACTOR OF SAFETY (REFERENCE TC-01-001 FOR AVANGRID OVERLOAD FACTORS). MORE SPECIFIC DATA ON SOILS AND ANCHOR PERFORMANCE CAN BE OBTAINED BY CONTACTING HUBBELL POWER SYSTEMS.

[2]THE TORQUE VALUES SHOWN ARE STEADY VALUES IN HOMOGENEOUS SOILS, NOT PEAK VALUES THAT CAN OCCUR IN NON-HOMOGENEOUS SOILS SUCH AS GLACIAL TILL OR OTHER ROCKY SOILS. THE TORQUE VALUES SHOWN ARE OBTAINED BY AVERAGING THE READINGS FROM THE LAST 2 FEET OF ANCHOR PENETRATION.

NOTES:
1. QUANTITIES SHOWN IN BILL OF MATERIALS TABLE ARE FOR ONE ANCHOR. FOR TOTAL NUMBER OF ANCHORS, REFER TO PLAN AND PROFILES.
2. THE ANCHOR ROD SHALL BE SET IN ALIGNMENT WITH THE GUY STRAND. REFER TO PLAN & PROFILES FOR GUY ANGLE.
3. DIG A SMALL HOLE AT THE ANCHOR ENTRY POINT TO PREVENT "WALKING".
4. IF THE GROUND LINE SLOPES AWAY FROM THE POLE BEING ANCHORED, ANCHOR EXTENSIONS SHALL BE USED TO OBTAIN THE REQUIRED ROD LENGTH. ROD EXTENSIONS MAY ALSO BE USED TO PASS THROUGH SOFT SOILS AND REACH FIRMER LAYERS. ANCHOR EXTENSIONS MAY NOT EXCEED 14 FEET (2 EXTENSIONS).
5. IF GROUND CONDITIONS FORCE THE ROD LENGTH TO EXCEED 14 FEET, A DIFFERENT ANCHOR WILL HAVE TO BE USED. CONTACT ENGINEER FOR WHICH ALTERNATE ANCHOR TO USE.
6. TORQUE AND DOWN PRESSURE SHOULD BE CAREFULLY CONTROLLED DURING INSTALLATION TO AVOID HELIX DAMAGE OR CHURNING OF THE SOIL. THE APPLIED TORQUE AT ANY TIME SHALL NOT EXCEED THE MANUFACTURER'S RATING FOR THE ANCHOR AND TOOLING.
7. ALL GUY ANCHORS SHALL BE PULL TESTED. REFER TO TH-04-001. IF PULL TEST FAILS, CONTACT ENGINEER IMMEDIATELY FOR AN ALTERNATE ANCHOR.
8. SCREW ANCHOR SHALL HAVE A MINIMUM OF 4 FEET OF SOIL COVERAGE.

ANSI D CADD Drawing, DO NOT REVISE MANUALLY.

REV.	DESCRIPTION	DATE	BY	CK	APP

OWNER ENGINEER:

APPROVAL STAMP:

PE Stamp

DRAWING PREPARED BY: LaBella Powered by partnership.

ACCEPTED BY OE:

AVANGRID ENGINEERING
CONFIDENTIAL, PROPRIETARY and TRADE SECRET INFORMATION
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NYSEG AVANGRID

REV.	DATE	BY	DESCRIPTION	APP.

STRUCTURE ASSEMBLY DRAWING
115kV TEMPORARY LINE
BARTON BROOK S/S
STEUBEN COUNTY, NY

DR.	ACS/LBA	SCALE: NTS	FILE:
CK.	ACS/LBA	NO.	REV.
APP.	ACS/LBA	SK-002	0A
DATE:	10/02/2026		