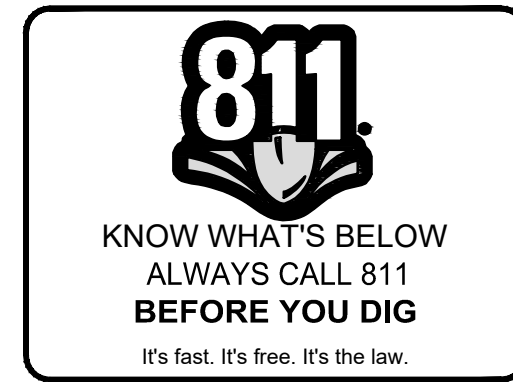


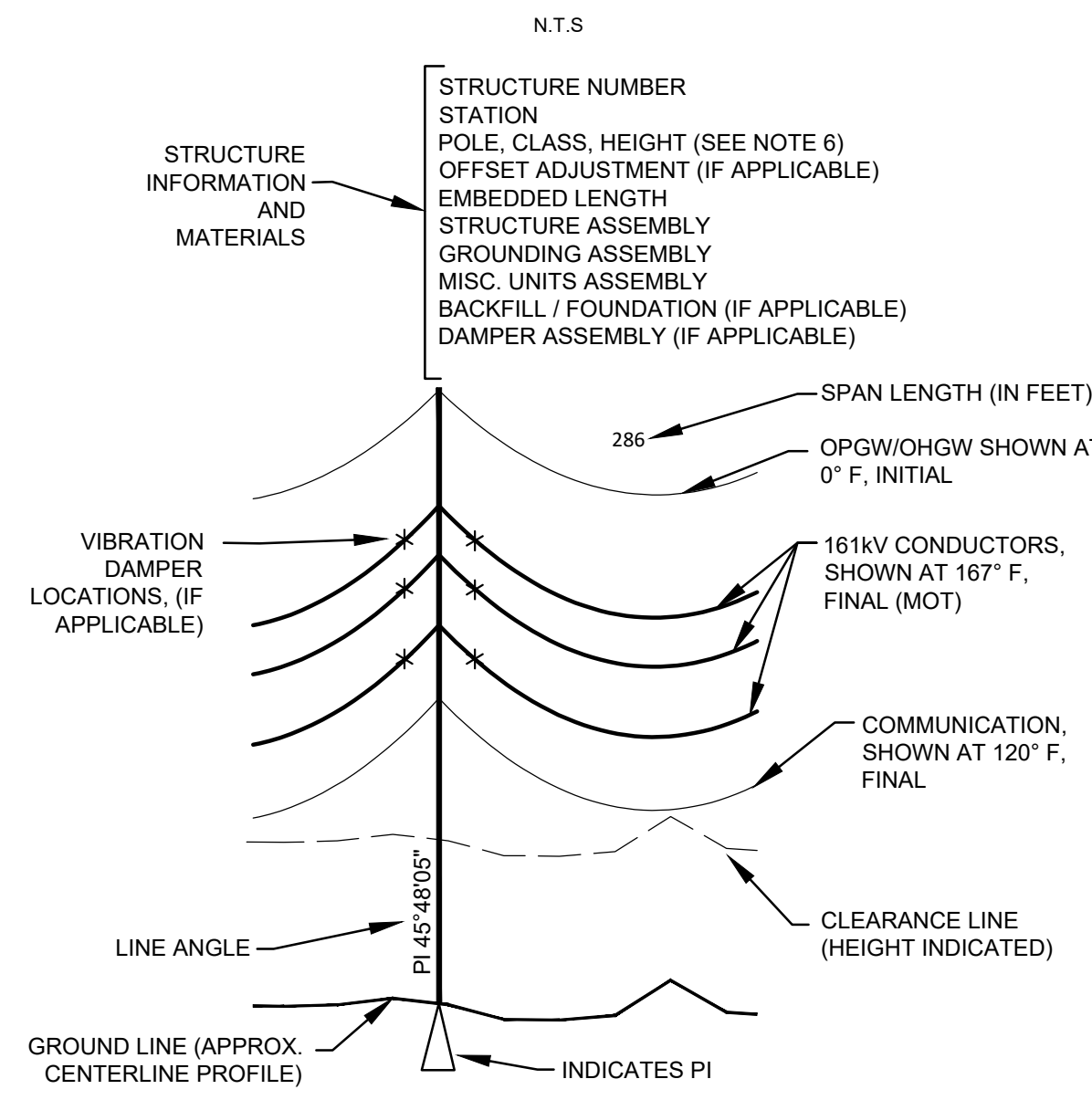
AES The AES Corporation 2025 01/02/2025  
 SAVER BY: (ANDREW.SEREDA) 11/30/2022 4:57 PM PLOTTED BY: (SEREDA ANDREW) 11/30/2022 6:33 PM

**NOTES:**

- TRANSMISSION - 161KV INSULATION / 161KV OPERATION PHASE CONDUCTOR - THREE (3) 795 kcmil ACSR 26/7 STRANDS (DRAKE) LOADING DISTRICT - MEDIUM (DESIGN) / MEDIUM (ACTUAL) MAXIMUM CONDUCTOR DESIGN TEMPERATURE - 167°F FINAL O.H.G.W. - 3/8" EHS STEEL. O.P.G.W. - TBD SEE "STRINGING SAG SUMMARY" FOR RULING SPAN & NESC MEDIUM CONDUCTOR DESIGN TENSION BY SECTION.
- FOR CONDUCTOR SPACING SEE STANDARD CONSTRUCTION DRAWINGS.
- POLES FOR WHICH CONDUCTOR POSITIONS ARE OTHER THAN THAT SHOWN ON THE TYPICAL CONSTRUCTION UNIT DRAWINGS HAVE DIMENSIONS INDICATED ON THE PROFILE VIEW. POSITIONS INDICATED ARE FOR CONDUCTOR LOCATIONS MEASURED IN FEET FROM THE TOP OF THE POLE. OFFSETS TO ACCOUNT FOR CROSSARM/INSULATOR MUST BE ACCOUNTED FOR WHEN DRILLING CROSSARM/INSULATOR ATTACHMENT LOCATIONS.
- DANGER** ALL LINES ARE TO BE CONSIDERED ENERGIZED UNLESS PHYSICALLY CHECKED AND CLEARLY GROUNDED IN ACCORDANCE WITH OWNER'S OR CONTRACTOR'S SAFETY REGULATIONS AND PROCEDURES, WHICHEVER IS MORE STRINGENT.
- POLES ARE SPECIFIED BY HEIGHT AND RUS STANDARD CLASS TRANSMISSION POLE DESIGNATION (ie: 80/C-06.5 IS 80-foot, C-06.5 RUS CONCRETE POLE DESIGNATION). SEE RUS BULLETIN 1724E-216.
- STRUCTURES ARE NOT INTENDED TO BE CLIMBABLE UNDER ENERGIZED CONDITIONS.
- SEE PROFILE VIEW (ie OFFSET ADJUST = 5.50) FOR OFFSET DIMENSIONS OF TRANSMISSION STRUCTURES FROM SURVEY CENTERLINE.



**161KV STRUCTURE INFORMATION DETAIL**



**LEGEND**

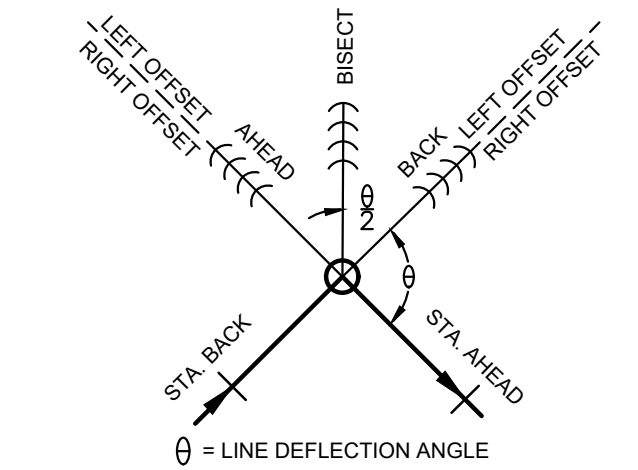
○	PROPOSED POLE LOCATION	— R/W —	D.O.T. RIGHT-OF-WAY	— X — X —	FENCE
⊗	EXISTING FOREIGN POLE LOCATION - TO BE RETAINED	— — — — —	UTILITY EASEMENT	— X — X —	FENCE CHAIN LINK
⊙	EXISTING POLE LOCATION - TO BE REMOVED	— — — — —	EXISTING UTILITY EASEMENT	— ○ — ○ —	FENCE CHAIN LINK
●	EXISTING POLE LOCATION - TO BE RETAINED	— PL —	PROPERTY LINE (APPROXIMATE)	— SF —	SILT FENCE
⊖	REPLACED POLE LOCATION	— — — — —	PAVED ROAD	18	TRANSMISSION STRUCTURE NUMBER
—	PROPOSED TRANSMISSION LINE	— — — — —	GRAVEL DRIVE	OHFI	OVERHEAD FAULT INDICATOR
— — — — —	PROPOSED TRANSMISSION LINE WITH DISTRIBUTION UNDERBUILD (PHASES & NEUTRAL INDICATED)	— FO —	FIBER OPTIC UB LINE	W	WATER VALVE
— — — — —	PROPOSED 3 PHASE LINE UNDER GROUND	— HO —	EXISTING HV TRANSMISSION LINE	SS	UNDERGROUND SEWER LINE
— — — — —	EXISTING 1P LINE UNDER GROUND	— — — — —	UNDERGROUND WATER LINE	— — — — —	DITCH CENTERLINE
— — — — —	EXISTING PRIMARY LINE TO BE RETAINED OR TRANSFERRED	— — — — —	EXISTING HV TRANSMISSION LINE	— — — — —	WATER/COAST LINE
— — — — —	EXISTING PRIMARY DISTRIBUTION LINE TO BE REMOVED (PHASES & NEUTRAL INDICATED)	— — — — —	UNDERGROUND WATER LINE	— — — — —	UNDERGROUND SEWER LINE
— — — — —	EXISTING SECONDARY DISTRIBUTION TO BE RETAINED OR TRANSFERRED	— — — — —	DITCH CENTERLINE	— — — — —	GROUND CLEARANCE LINE (TRANSMISSION)
— — — — —	EXISTING SECONDARY DISTRIBUTION - TO BE REMOVED	— — — — —	WATER/COAST LINE	— — — — —	GROUND CLEARANCE LINE (DISTRIBUTION)
— — — — —	EXISTING SECONDARY DISTRIBUTION - TO BE REMOVED	— — — — —	UNDERGROUND SEWER LINE	— — — — —	SIDE PROFILES
— — — — —	EXISTING SECONDARY DISTRIBUTION - TO BE REMOVED	— — — — —	GROUND CLEARANCE LINE (TRANSMISSION)	— — — — —	WETLANDS
— — — — —	EXISTING SECONDARY DISTRIBUTION - TO BE REMOVED	— — — — —	GROUND CLEARANCE LINE (DISTRIBUTION)	— — — — —	WOODLINE
— — — — —	EXISTING SECONDARY DISTRIBUTION - TO BE REMOVED	— — — — —	SIDE PROFILES	— — — — —	



**ROUTE MAP**  
MADISON COUNTY, KENTUCKY



**TYPICAL GUY/ANCHOR ORIENTATION**



The AES Corporation  
 Pine Grove Solar Project - 30%  
 161kV Gen-Tie Transmission Line  
 Sag & Tension / Stringing-Sag Table Index

TRANSMISSION SECTIONS		November 2022				
From Str.	To Str.	Conductor	Ruling Span (ft)	Design Tension Initial, NESC Medium (250B)	Percent of Ultimate Breaking Strength	Table Number Stringing Sag
PINE GROVE SUBSTATION	POCO	(1) 3/8" HS STEEL - OHGW	142	1,000	9.26%	1-SS
		(1) TBD - OPGW	142	1,000	TBD	2-SS
		(3) 795 ACSR "DRAKE"	142	2,200	6.98%	3-SS
POCO	SWITCHING STATION (LG&E/KU)	(1) 3/8" HS STEEL - OHGW	142	1,000	9.26%	4-SS
		(1) TBD - OPGW	142	1,000	TBD	5-SS
		(3) 795 ACSR "DRAKE"	142	2,200	6.98%	6-SS



2180 South 1300 East, Suite 600  
 Salt Lake City, UT 84106-2749  
 (801) 679 - 3500



PE STAMP:

**PRELIMINARY -  
 DO NOT USE FOR  
 CONSTRUCTION**

KEY PLAN:

REVISIONS:

NO.	DATE	DESCRIPTION
A	11/30/22	IFR 30%

PROJECT TITLE:

**PINE GROVE  
 SOLAR FARM  
 161 TO 34.5  
 SUBSTATION**

PROJECT LOCATION:

**MADISON COUNTY,  
 KENTUCKY**

SHEET TITLE & DESCRIPTION:

**PLAN & PROFILE  
 COVER SHEET**

**SHEET 1 OF 2**

PROJ NUM:	2210966
DES:	GSB
DWN:	AVS
CHK:	GSB
APV:	GSB
DATE:	11/29/2022
SCALE AT 24" x 36":	

NONE

SHEET NO:	7780966PP	REV:	A
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PE STAMP:

KEY PLAN:

PRELIMINARY -  
NOT FOR  
CONSTRUCTION

REVISIONS:

NO.	DATE	DESCRIPTION
A	11-30-22	IFR 30%

PROJECT TITLE:

PINE GROVE  
SOLAR FARM  
161 TO 34.5 KV  
SUBSTATION

PROJECT LOCATION:

MADISON COUNTY,  
KENTUCKY

SHEET TITLE & DESCRIPTION:

PLAN & PROFILE

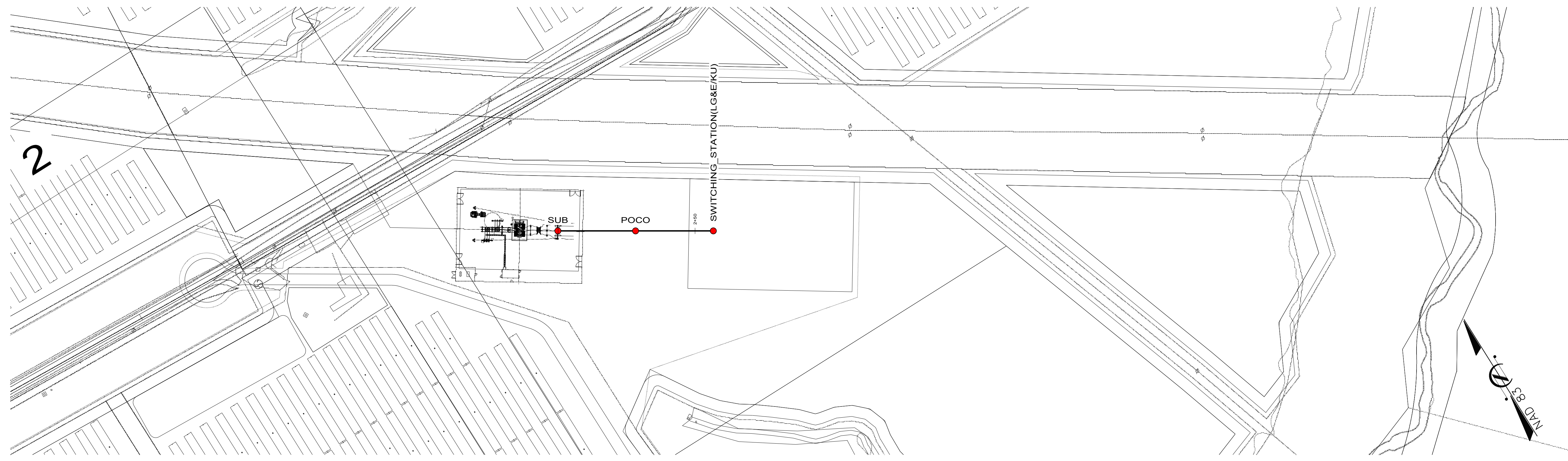
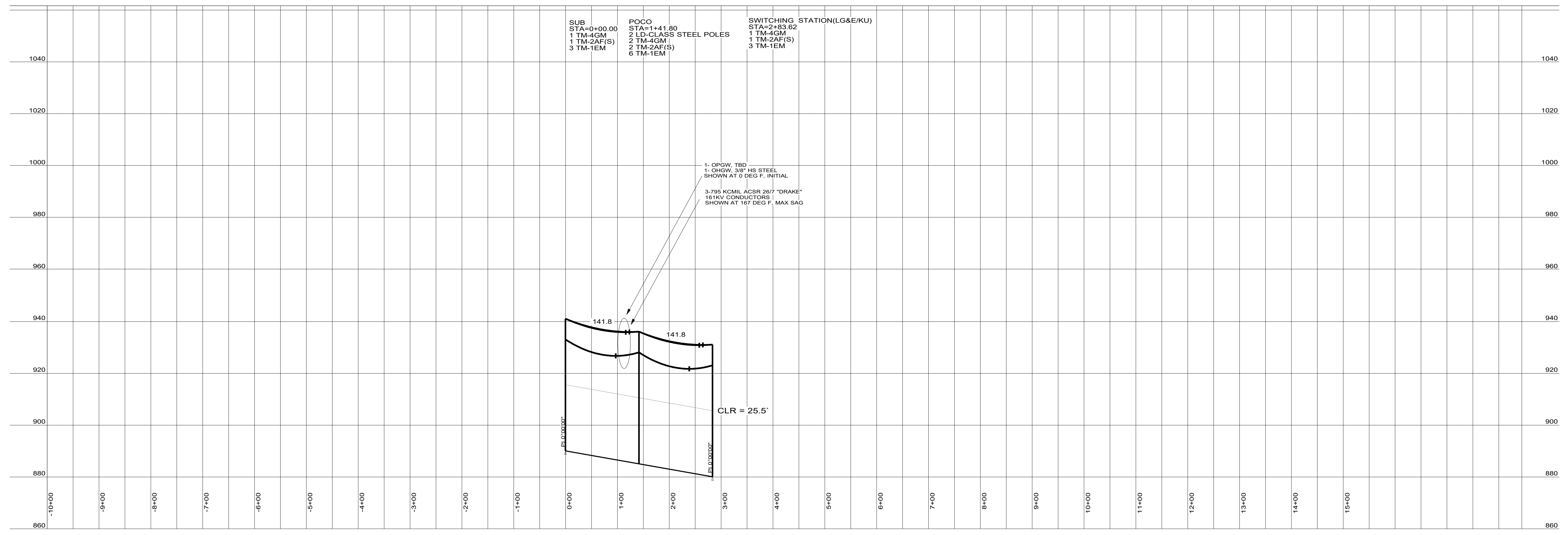
SHEET 2 OF 2

PROJ NUM:	2210966
DES:	GSB
DWN:	GSB
CHK:	AVS
APV:	GSB
DATE:	11-30-2022

SCALE AT 24" X 36":

AS NOTED

SHEET NO:	7780966PP	REV:	A
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100.0 FT. HORIZ. SCALE  
20.0 FT. VERT. SCALE

AES TITLEBLOCK/NOV 10/2019