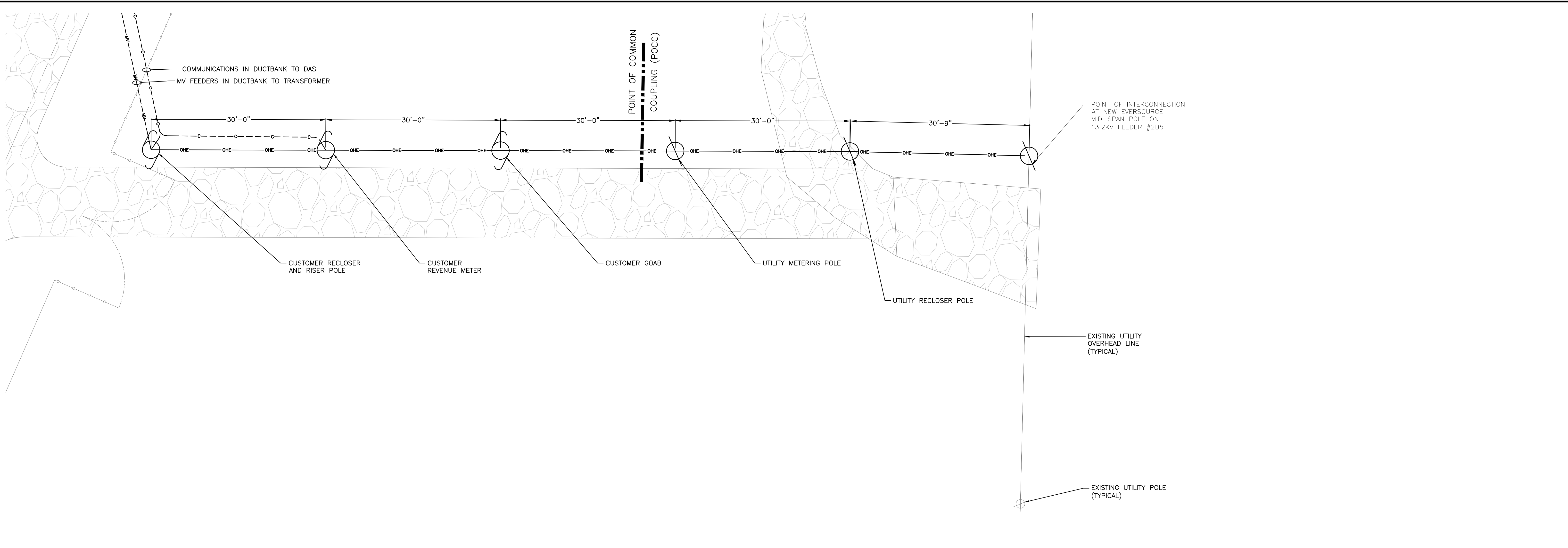


EXHIBIT G

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 2/26/2025 12:32 PM



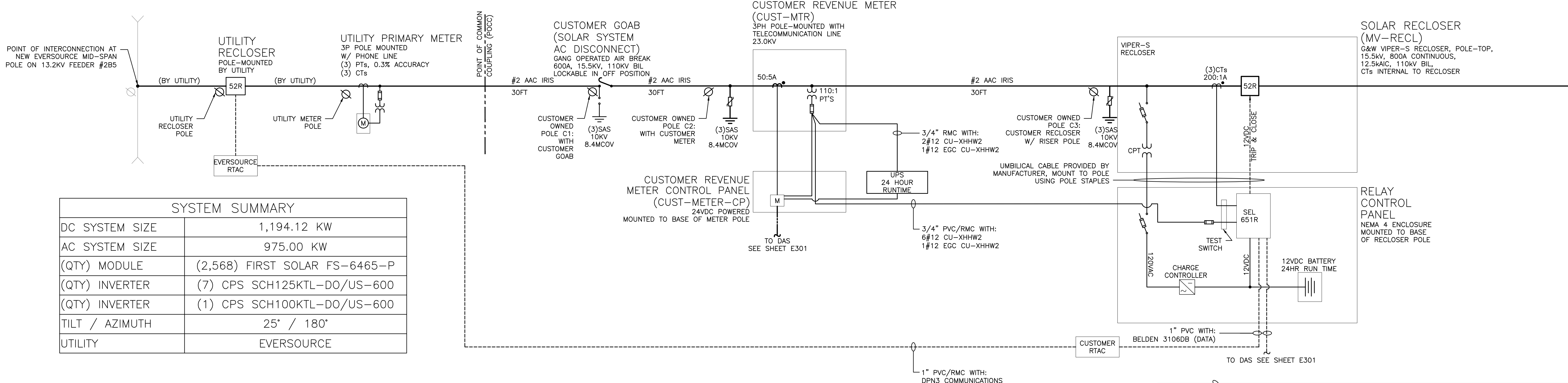
1 POLE LINE PLAN
SCALE: 1/8" = 1'-0"



DRAWING TITLE	DRAWING #
POLE LINE PLAN	E101

PROJECT SOLAR GROUND MOUNT SYSTEM AT TERRYVILLE SOLAR ONE 270 PRESTON ROAD TERRYVILLE, CT 06786	DEVELOPER VEROGY 124 LASELLE RD, 2ND FLOOR WEST HARTFORD, CT 06107 WWW.VEROGY.COM	PAGE SIZE 36" x 24" PROJECT # 10282.01	ENGINEER <small>NOTICE: CERTAIN DETAILS IN THIS PLANSET ARE PROTECTED BY COPYRIGHT AND ARE THE PROPERTY OF PUREPOWER ENGINEERING INC. ALL RIGHTS RESERVED. REPRODUCTION, PROJECTS IS STRICTLY PROHIBITED. © 2024, PURE POWER ENGINEERING INC. ALL RIGHTS RESERVED.</small>	 PUREPOWER ENGINEERING 111 W. MAIN ST., SUITE 100 WEST HARTFORD, CT 06107 WWW.PUREPOWER.COM MATTHEW M. DONOVAN CT LICENSE NO. PEN0007314	REVISION DESCRIPTION DATE	PM ENG CHK
					30% CONCEPTUAL DESIGN 02/28/2025	INTERCONNECTION DOCUMENTS 07/29/2024

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



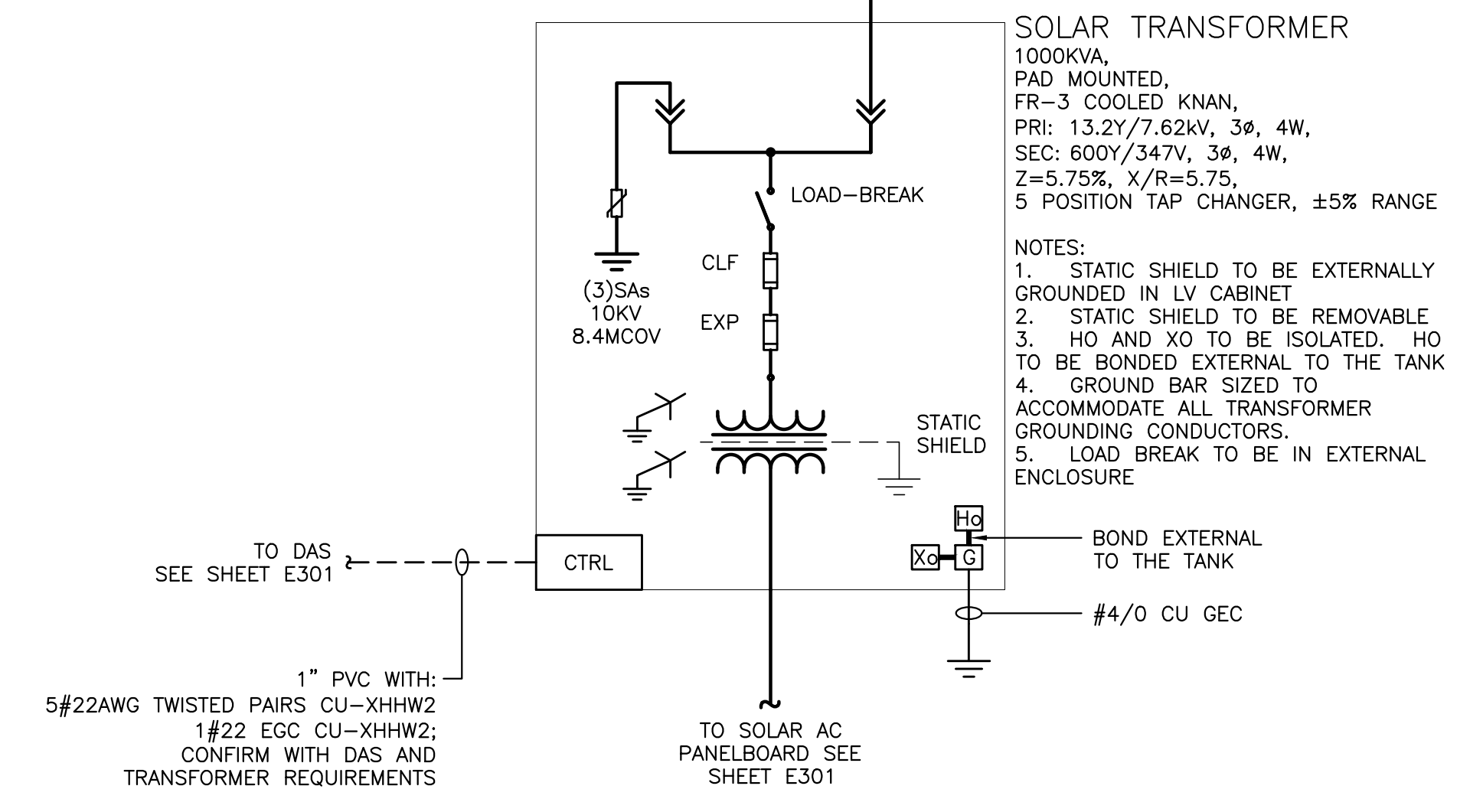
SYSTEM SUMMARY	
DC SYSTEM SIZE	1,194.12 KW
AC SYSTEM SIZE	975.00 KW
(QTY) MODULE	(2,568) FIRST SOLAR FS-6465-P
(QTY) INVERTER	(7) CPS SCH125KTL-D0/US-600
(QTY) INVERTER	(1) CPS SCH100KTL-D0/US-600
TILT / AZIMUTH	25° / 180°
UTILITY	EVERSOURCE

INVERTER UL1741-SB Compliant						
ANSI ELEMENT #	Pickup	Real	Level	Delay (sec)	Curve	Description
27-1	304.84	528V	88.0%	3.00		Slow UV
27-2	173.21	300V	50.0%	1.10		Fast UV
59-1	381.05	660V	110.0%	2.00		Slow OV
59-2	415.69	720V	120.0%	0.16		Fast OV
81U-1	58.50	58.5Hz	97.5%	300.00		Slow UF
81U-2	56.50	56.5Hz	94.2%	0.16		Fast UF
81O-1	61.20	61.2Hz	102.0%	300.00		Slow OF
81O-2	62.00	62Hz	103.3%	0.16		Fast OF
PF Set Point		1.00				Power Factor Control
Var Control		OFF				Reactive Power Control
Ramp Rate		10%/1 sec				dkw / dt
Freq Control		OFF				Speed Control

2 INVERTER SETTINGS
SCALE: NONE

SEL 651R RELAY											
SETTINGS ARE PRELIMINARY PENDING UTILITY APPROVAL AND NOT INTENDED FOR CONSTRUCTION. 50/51 SETTINGS ARE PRELIMINARY AND COORDINATION STUDY BY EOR HAS NOT BEEN COMPLETED.											
Solar System Base AC Size = 975KVA			42.65A BASE PRIMARY USED FOR 50/51 ELEMENTS			*Total Clear Time = 3 Cycle Breaker Plus Delay (Time Dial or DEF Time)					
0.21A BASE SECONDARY 50/51P,G,N,Q						7621.02V BASE PRIMARY USED FOR 27/59 ELEMENTS					
P,G,N,Q CT RATIO FACTOR = 200						69.28V BASE SECONDARY USED FOR 27/59 ELEMENTS					
P CT Minimum Rating = 200:1 1B4 C400 RF = 1 @ 30C						PT RATIO FACTOR = 110					
ANSI ELEMENT #	Unit	Pickup (Secondary)	Real (Primary)	Level	Def. Time Delay (s)	Time Dial	Total Clear Time (s)*	Total Clear Time (cyc)*	Curve	Description	
27-1	L-N Volt	60.97	6706.50	88.00%	2.95	-	3.00	180.00	-	Slow UV	
27-2	L-N Volt	34.64	3810.51	50.00%	1.05	-	1.10	66.00	-	Fast UV	
59-1	L-N Volt	76.21	8383.13	110.00%	1.95	-	2.00	120.00	-	Slow OV	
59-2	L-N Volt	83.14	9145.23	120.00%	0.11	-	0.16	9.60	-	Fast OV	
59-3	L-N Volt	86.60	9526.28	125.00%	0.00	-	0.05	3.00	-	Instantaneous OV	
79-UV	L-N Volt	65.82	7239.97	95.00%	299.95	-	300.00	18000.00	-	Min Permissive Close Voltage	
79-OV	L-N Volt	72.75	8002.07	105.00%	299.95	-	300.00	18000.00	-	Max Permissive Close Voltage	
59N	3V0 L-N Volt	11.78	1295.57	17.00%	1.95	-	2.00	120.00	-	Zero Sequence Overvolt	
81U-1	Hz	58.50	58.50	97.50%	299.95	-	300.00	18000.00	-	Slow UF	
81U-2	Hz	56.50	56.50	94.17%	0.11	-	0.16	9.60	-	Fast UF	
81O-1	Hz	61.20	61.20	102.00%	299.95	-	300.00	18000.00	-	Slow OF	
81O-2	Hz	62.00	62.00	103.33%	0.11	-	0.16	9.60	-	Fast OF	
79-UF	Hz	59.50	59.50	99.17%	299.95	-	300.00	18000.00	-	Min Permissive Close Frequency	
79-OF	Hz	60.50	60.50	100.83%	299.95	-	300.00	18000.00	-	Max Permissive Close Frequency	
51P	A	0.32	63.97	150.00%	-	2	3.9 @2X	234.02 @2X	U4	Time Phase OC	
50P	A	2.56	511.74	1200.00%	0.00	-	0.05	3.00	-	Instantaneous P OC	
51G	A	0.04	8.53	20.00%	-	8	11.17 @2X	670.02 @2X	U3	Timed Ground OC	
50G	A	0.21	42.65	100.00%	0.00	-	0.05	3.00	-	Instantaneous G OC	

3 RELAY SETTINGS
SCALE: NONE



1 ONE LINE DIAGRAM
SCALE: NONE

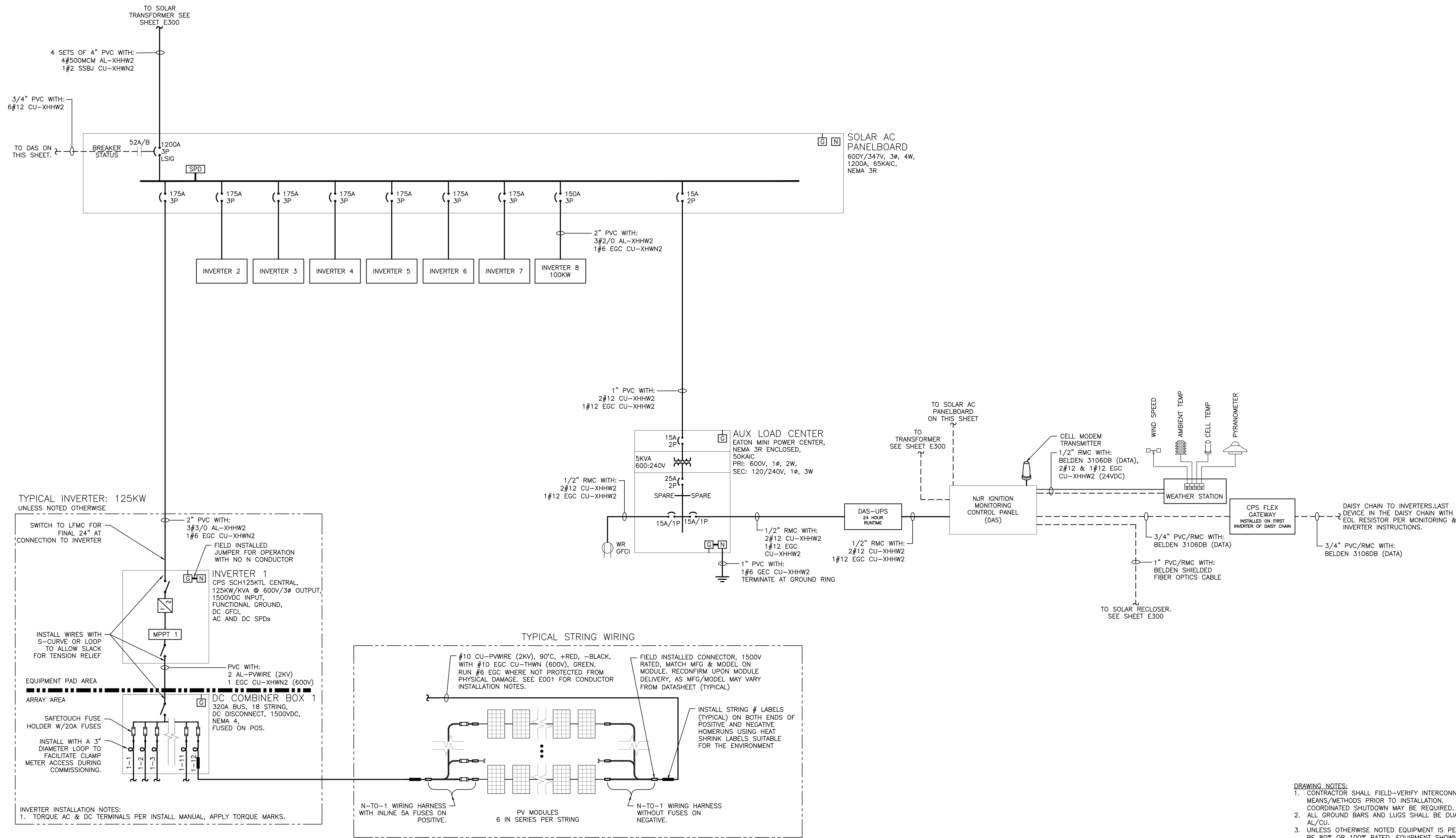
- SHEET NOTES:**
- CONTRACTOR SHALL FIELD-VERIFY INTERCONNECTION MEANS/METHODS PRIOR TO INSTALLATION. COORDINATED SHUTDOWN MAY BE REQUIRED.
 - ALL GROUND BARS AND LUGS SHALL BE DUAL RATED AL/CU.
 - UNLESS OTHERWISE NOTED EQUIPMENT IS PERMITTED TO BE 80% OR 100% RATED.
 - PVC SCH80 REQUIRED WHERE PVC IS SPECIFIED. PVC SCH40 IS PERMITTED FOR UNDERGROUND STRAIGHT RUNS ONLY.
 - SET NEW ELECTRONIC-TRIP BREAKERS TO THE SETTINGS BELOW, UNLESS OTHERWISE NOTED IN POWER STUDY. "NOMINAL TRIP" REFERS TO BREAKER TRIP RATING INDICATED ON ONLINE. SETTINGS BELOW ARE NOT FOR COORDINATION PURPOSES.
L = 100% OF NOMINAL TRIP (EXACT)
MINIMUM TIME DELAY
S = 125% OF NOMINAL TRIP (OR NEXT HIGHER)
MINIMUM TIME DELAY
I = 150% OF NOMINAL TRIP (OR NEXT HIGHER)
G = 20% OF NOMINAL TRIP (OR NEXT HIGHER)
0.5 SEC TIME DELAY

DRAWING TITLE: **ONE LINE DIAGRAM MEDIUM VOLTAGE**
DRAWING #: **E300**

PUREPOWER ENGINEERING
 111 MATTHEW M. DONOVAN
 WWW.PUREPOWER.COM
 CT LICENSE NO. PEN0007914
 ENGINEER
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 DEVELOPER: **VEROGY** 124 LASELLE RD, 2ND FLOOR WEST HARTFORD, CT 06107 WWW.VEROGY.COM
 PAGE SIZE: 36" x 24"
 PROJECT #: 10282.01
 SOLAR GROUND MOUNT SYSTEM AT TERRYVILLE SOLAR ONE 270 PRESTON ROAD TERRYVILLE, CT 06786

PLOT DATE: 2/28/2025 12:32 PM

RULER IN INCHES:



1 ONE LINE DIAGRAM
SCALE: NONE

- DRAWING NOTES:**
- CONTRACTOR SHALL FIELD-VERIFY INTERCONNECTION MEANS/METHODS PRIOR TO INSTALLATION. COORDINATED SHUTDOWN MAY BE REQUIRED.
 - ALL GROUND BARS AND LUGS SHALL BE DUAL RATED AL/CU.
 - UNLESS OTHERWISE NOTED EQUIPMENT IS PERMITTED TO BE 80% OR 100% RATED. EQUIPMENT SHOWN AS "100% RATED" SHALL INCLUDE AN ASSEMBLY, INCLUDING OVERCURRENT PROTECTION DEVICES, WHICH IS LISTED FOR CONTINUOUS OPERATION AT 100% OF ITS RATED CURRENT.
 - PVC SCH80 REQUIRED WHERE PVC IS SPECIFIED. PVC SCH40 IS PERMITTED FOR UNDERGROUND STRAIGHT RUNS ONLY.
 - SET NEW ELECTRONIC-TRIP BREAKERS TO THE SETTINGS BELOW, UNLESS OTHERWISE NOTED IN POWER STUDY. "NOMINAL TRIP" REFERS TO BREAKER TRIP RATING INDICATED ON ONELINE. SETTINGS BELOW ARE NOT FOR COORDINATION PURPOSES.
 - L = 100% OF NOMINAL TRIP (EXACT)
MINIMUM TIME DELAY
 - S = 125% OF NOMINAL TRIP (OR NEXT HIGHER)
MINIMUM TIME DELAY
 - I = MINIMUM VALUE GREATER THAN NOMINAL TRIP
 - G = 20% OF NOMINAL TRIP (OR NEXT HIGHER)
0.5 SEC TIME DELAY

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 2/28/2025 12:32 PM

MV FEEDER CALCULATIONS (13.2KV)

EQUIPMENT SUPPLIED	FED FROM	CIRCUIT ROUTING	# OF TRANSFORMERS	APPARENT POWER [KVA]	FEEDER LENGTH (ONE-WAY) [FT]	FULL LOAD AMPS 'FLA' [A]	OCPD TYPE	OCPD TRIP RATING [A]	OCPD TRIP % OF FLA	CONDUCTOR MATERIAL	CONDUCTOR SIZE	TABLE REFERENCE	TEMPERATURE ADJUSTMENT	CONDUCTOR AMPACITY AT 90° TERM [A]	CONDUCTOR AMPACITY [A]	CHECK CONDUCTOR AMPACITY > FLA?	CHECK OCPD RATING > FLA x 1.25?	CHECK OCPD COMPLIANT WITH 240.101(A)?	SEGMENT VOLTAGE DROP AT FLA	TOTAL VOLTAGE DROP AT FLA	PVC CONDUIT SIZE	ADDITIONAL GROUND CABLE
CUSTOMER GOAB	POI	OVERHEAD ACSR	1	1,000	30	43.7	BREAKER	66	150%	AL	#2 ACSR	MFGR DATA SHEET	1.00	184	184	PASS	PASS	PASS	0.01%	0.01%	N/A	NONE
CUSTOMER REVENUE METER	CUSTOMER GOAB	OVERHEAD ACSR	1	1,000	30	43.7	BREAKER	66	150%	AL	#2 ACSR	MFGR DATA SHEET	1.00	184	184	PASS	PASS	PASS	0.01%	0.01%	N/A	NONE
CUSTOMER RECLOSER	CUSTOMER REVENUE METER	OVERHEAD ACSR	1	1,000	30	43.7	BREAKER	66	150%	AL	#2 ACSR	MFGR DATA SHEET	1.00	184	184	PASS	PASS	PASS	0.01%	0.02%	N/A	NONE
XFMR	CUSTOMER RECLOSER	UNDERGROUND IN CONDUIT	1	1,000	40	43.7	BREAKER	66	150%	AL	#2	311.60(C)(78)	1.00	120	120	PASS	PASS	PASS	0.01%	0.02%	4"	CU #6

AC CIRCUIT CALCULATIONS

EQUIPMENT SUPPLIED	FED FROM	VOLTAGE	FULL LOAD AMPS (FLA)	FLA x 1.25	OCPD SIZE [A]	CONDUIT TYPE	CONDUIT SIZE	CONDUCTORS PER PHASE	PHASE CONDUCTOR SIZE	NEUTRAL CONDUCTOR SIZE	GROUND CONDUCTOR SIZE	75° AMPACITY	90° AMPACITY	90° AMPACITY WITH C.O.U.	CABLE TRAY AMPACITY WITH C.O.U.	C.O.U. DERATE AMBIENT TEMP	C.O.U. DERATE CONDUIT FILL	FEEDER LENGTH (ONE-WAY) [FT]	SEGMENT VOLTAGE DROP AT FLA	TOTAL VOLTAGE DROP AT FLA
AC PANELBOARD	XFMR	480	938.3	1173	1200	PVC	4"	4	AL 500MCM	AL 500MCM	CU #3/0 GEC	1240	1400	1400	N/A	1.00	1.00	15	0.06%	0.08%
INVERTER 1	AC PANELBOARD	480	120.3	150	175	PVC	2"	1	AL #3/0	NONE	CU #6	155	175	175	N/A	1.00	1.00	20	0.11%	0.19%
INVERTER 2	AC PANELBOARD	480	120.3	150	175	PVC	2"	1	AL #3/0	NONE	CU #6	155	175	175	N/A	1.00	1.00	25	0.14%	0.22%
INVERTER 3	AC PANELBOARD	480	120.3	150	175	PVC	2"	1	AL #3/0	NONE	CU #6	155	175	175	N/A	1.00	1.00	30	0.17%	0.25%
INVERTER 4	AC PANELBOARD	480	120.3	150	175	PVC	2"	1	AL #3/0	NONE	CU #6	155	175	175	N/A	1.00	1.00	35	0.20%	0.27%
INVERTER 5	AC PANELBOARD	480	120.3	150	175	PVC	2"	1	AL #3/0	NONE	CU #6	155	175	175	N/A	1.00	1.00	30	0.17%	0.25%
INVERTER 6	AC PANELBOARD	480	120.3	150	175	PVC	2"	1	AL #3/0	NONE	CU #6	155	175	175	N/A	1.00	1.00	25	0.14%	0.22%
INVERTER 7	AC PANELBOARD	480	120.3	150	175	PVC	2"	1	AL #3/0	NONE	CU #6	155	175	175	N/A	1.00	1.00	20	0.11%	0.19%
INVERTER 8	AC PANELBOARD	480	96.2	120	150	PVC	2"	1	AL #2/0	NONE	CU #6	135	150	150	N/A	1.00	1.00	15	0.08%	0.16%

AVERAGE AC VOLTAGE DROP FROM POI TO INVERTERS: 0.22%

MODULE SPECIFICATIONS	
MAKE/MODEL	FS-6465A-P 465W
POWER [W]	465
ISC [A]	2.6
IMP [A]	2.45
VOC [V]	223.8
VMP [V]	189.8
β VOC [%/degC]	-0.28%
SITE CLIMATE CRITERIA (WMO 725029)	
ASHRAE HIGH [°C]	27.5
ASHRAE LOW [°C]	-19.6
ELEVATION (m)	0
STRING SPECIFICATIONS AT STC	
MODULES/STRING	6
POWER [W]	2790
STRING ISC [A]	2.60
STRING IMP [A]	2.45
STRING VMP [V]	1138.80

SAM SIMULATED VALUES	
MAXIMUM CURRENT [A]	2.99
MAXIMUM VOLTAGE [V]	1418.15
THE STRING MAX CURRENT IS CALCULATED BY SYSTEM ADVISOR MODEL SIMULATION PROGRAM PROVIDED BY THE NATIONAL RENEWABLE ENERGY LABORATORY, REFERENCE SAND 2004-3535, PHOTOVOLTAIC ARRAY PERFORMANCE MODEL, AS ALLOWABLE BY NEC 690.8(A)(1)(2), THE CALCULATED CURRENT IS 92% OF THE VALUE USING 690.8(A)(1)(1).	

SHEET NOTES:
1. DISTANCES ARE ONE-WAY ESTIMATES GENERATED FOR ENGINEER'S CALCULATIONS. CONTRACTOR IS RESPONSIBLE FOR OWN MEASUREMENTS AND TAKEOFFS.

PROJECT: SOLAR GROUND MOUNT SYSTEM AT TERRYVILLE SOLAR ONE
 270 PRESTON ROAD
 TERRYVILLE, CT 06786
 DEVELOPER: VEROGY 124 LAELLE RD, 2ND FLOOR WEST HARTFORD, CT 06107 WWW.VEROGY.COM
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 DATE: 02/28/2025
 PM/ENG/CHK: [Blank]
 BK/SCG/MD: [Blank]
 RK/CH/FR: [Blank]