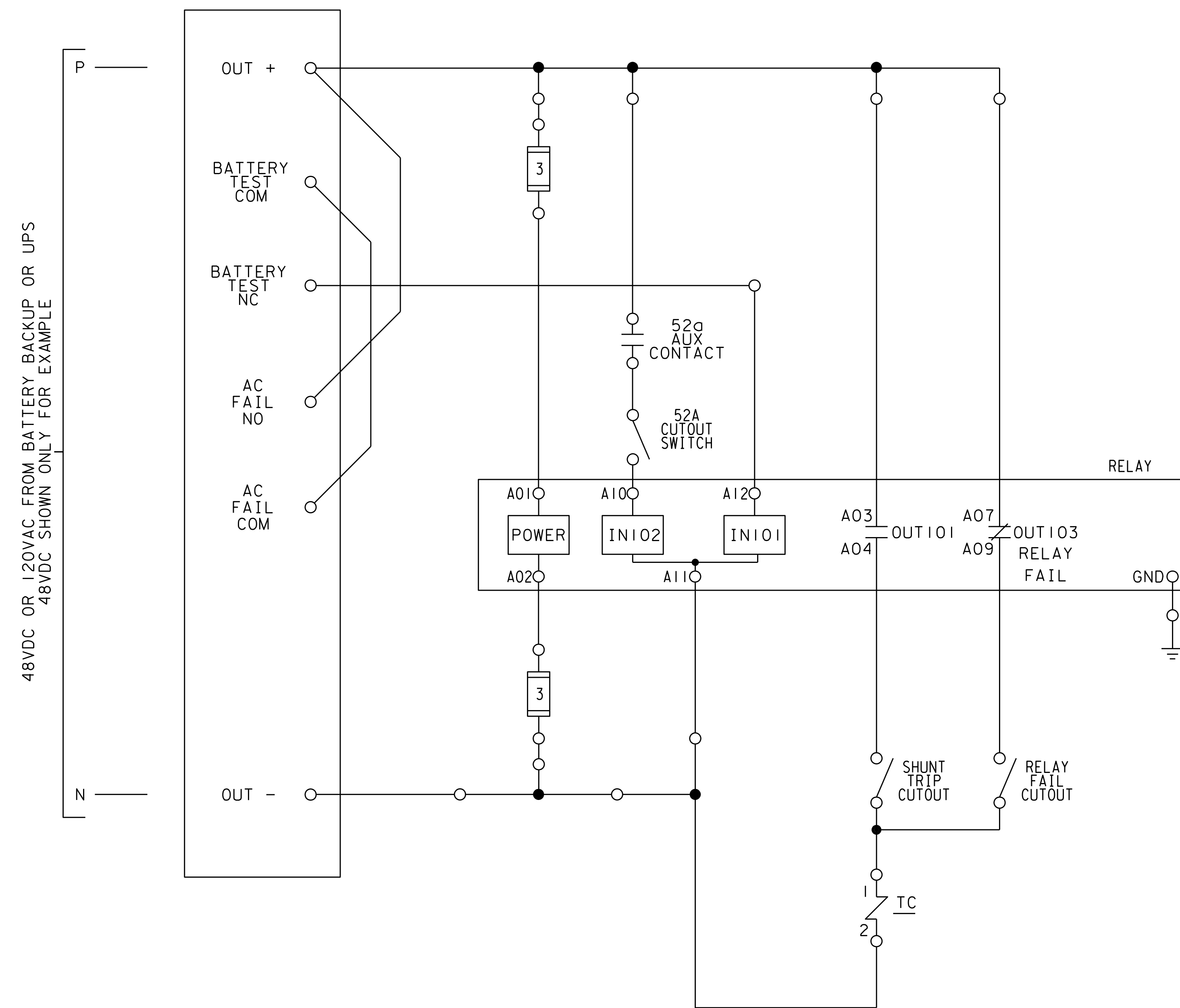


THIS SAMPLE RELAY SCHEMATIC FOR A CLASS III (1MW AND OVER) PV SYSTEM, IS INTENDED TO SHOW THE LEVEL OF DETAIL EXPECTED BY YOUR SRP REVIEWER AND THE DETAIL YOUR INSTALLER WILL NEED TO BUILD CORRECTLY.

SAMPLE RELAY SCHEMATIC



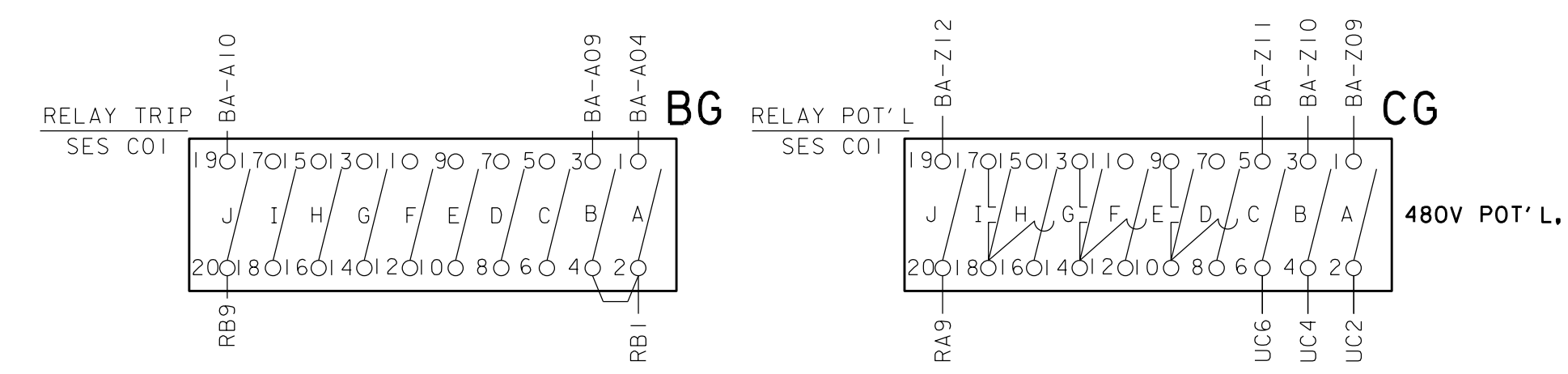
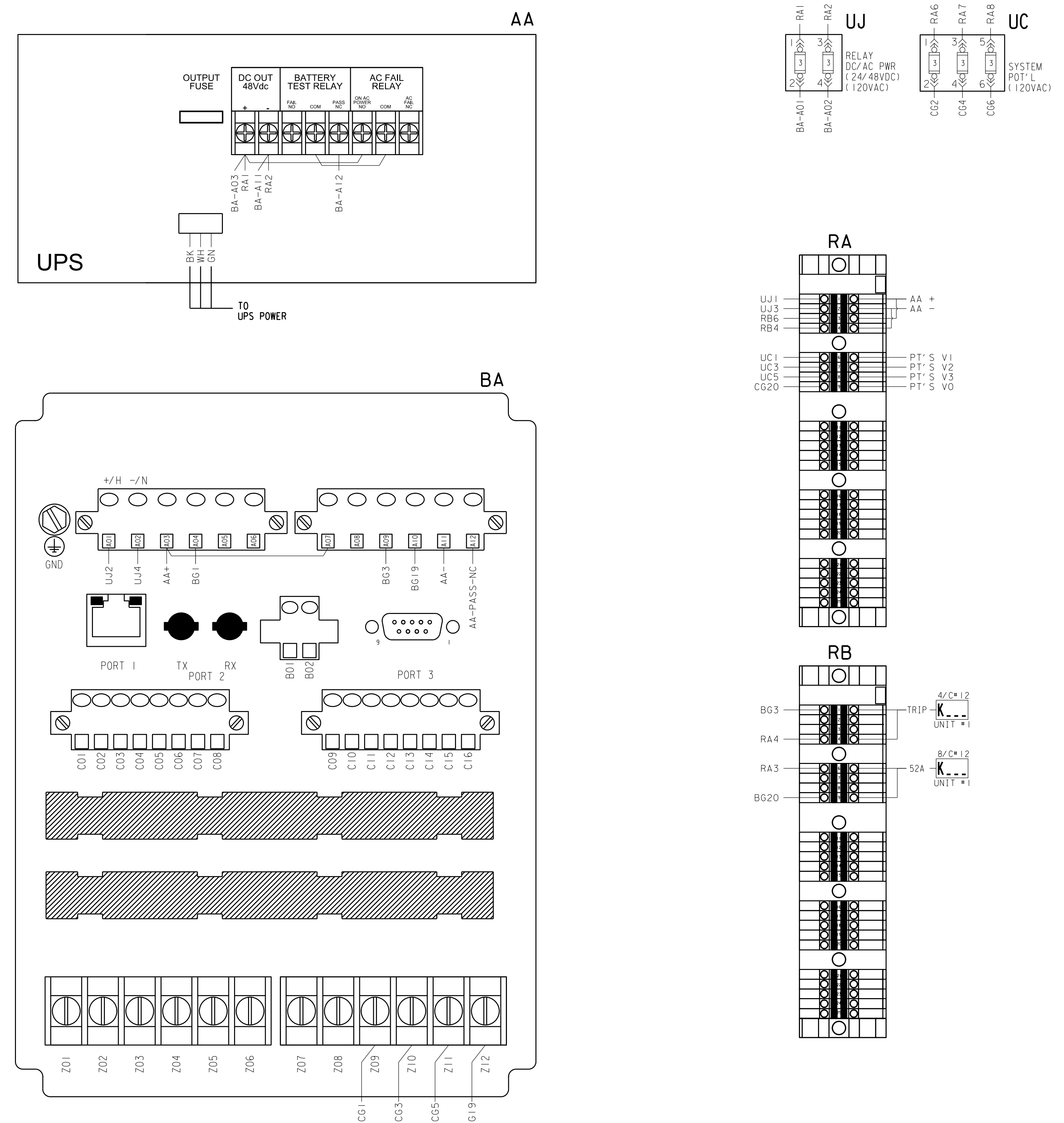
RELAY NOTES:

1. RELAY ENFORCES IEEE 1547 2018 CATEGORY-III AT THE POINT OF INTERCONNECTION.
2. IN THE CASE OF AN ANSI ELEMENT EVENT, THE RELAY WILL SHUNT TRIP THE DER DISCONNECT SWITCH AND PROVIDE A SOFTWARE 86 LOCKOUT.
3. THE RELAY WILL TRIP THE SYSTEM GENERATION IN THE EVENT OF RELAY FAULTS AND/OR BATTERY FAULTS.
4. LOCKOUT CAN ONLY BE CLEARED MANUALLY AFTER RESTORATION OF GRID TO ANSI THRESHOLDS.
5. PROTECTION SYSTEM TO BE TESTED EVERY 5 YEARS BY AN APPROVED TESTING AGENCY.
6. VERIFY UPS AND BATTERY VOLTAGE ARE SAME AS RELAY POWER AND CONTROL VOLTAGE. VERIFY ALARM CONTACT VOLTAGE FROM UPS IS APPROPRIATE FOR RELAY INPUT.
7. LABEL SENSING POTENTIAL CUTOUPS AS WELL AS 52A STATUS AND TRIP CUTOUPS WITH PLACARDS MOUNTED ABOVE CUTOUPS.
8. SENSING POTENTIAL TEST SWITCH SHALL BE SEPERATE FROM INPUT AND OUTPUT CUTOUPS.
9. ALL WIRES ASSOCIATED WITH RELAY SYSTEM SHALL BE LABELLED AND LANDED ON TERMINAL BOARDS TO FACILITATE WIRING SYSTEM CORRECTLY. WIRE NUTS SHALL NOT BE USED IN THIS SCHEME.

NOTES:

1. WITHIN EACH INDIVIDUAL POWERCLERK APPLICATION, A SITE PLAN, ONE LINE, THREE LINE, AND LABEL SHEET SPECIFIC FOR EACH PROJECT WILL NEED TO BE UPLOADED INTO POWERCLERK FOR ENGINEERING REVIEW. IN ADDITION FOR SYSTEMS OVER 1MW A UNIQUE PROTECTION SCHEMATIC WILL BE REQUIRED FOR EACH PROJECT SUBMITTED IN POWER CLERK.
2. SYSTEMS INSTALLED IN AREAS WHERE THE AHJ DOES NOT PROVIDE A CITY CLEARANCE, DESIGN DRAWINGS MUST BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARIZONA, AND THE CUSTOMER MUST PROVIDE A SIGNED CERTIFICATE-IN-LIEU OF CLEARANCE FOLLOWING COMPLETION OF ALL WORK.

SAMPLE CONNECTION DIAGRAM



001	04/2021	MCA	MCA	PM	PM
REV NO.	PROJECT NO.	DATE	DSGN ENGR	DFTR	DESIGN CHECK
SRP PHOENIX - ARIZONA					
XXX KW DC/ XXXKW AC PV RELAY SCHEMATIC DIAGRAM ADDRESS LINE 1 ADDRESS LINE 2					
SCALE: NONE					
SUBJ: 700001 DISTR: 00001 DWG: 8124					
01	E8	30x42	CLASS III 1MW		

THIS SAMPLE DRAWING IS FOR ILLUSTRATION PURPOSES ONLY AND IS NOT TO BE USED FOR DESIGN OR CONSTRUCTION. THIS DRAWING AND ITS SUITABILITY FOR END USE IS NOT IMPLIED. THE INTENT IS ONLY TO ILLUSTRATE TYPICAL MINIMUM INFORMATION REQUIRED AT THE TIME OF APPLICATION TO SRP. ADDITIONAL INFORMATION MAY BE REQUIRED