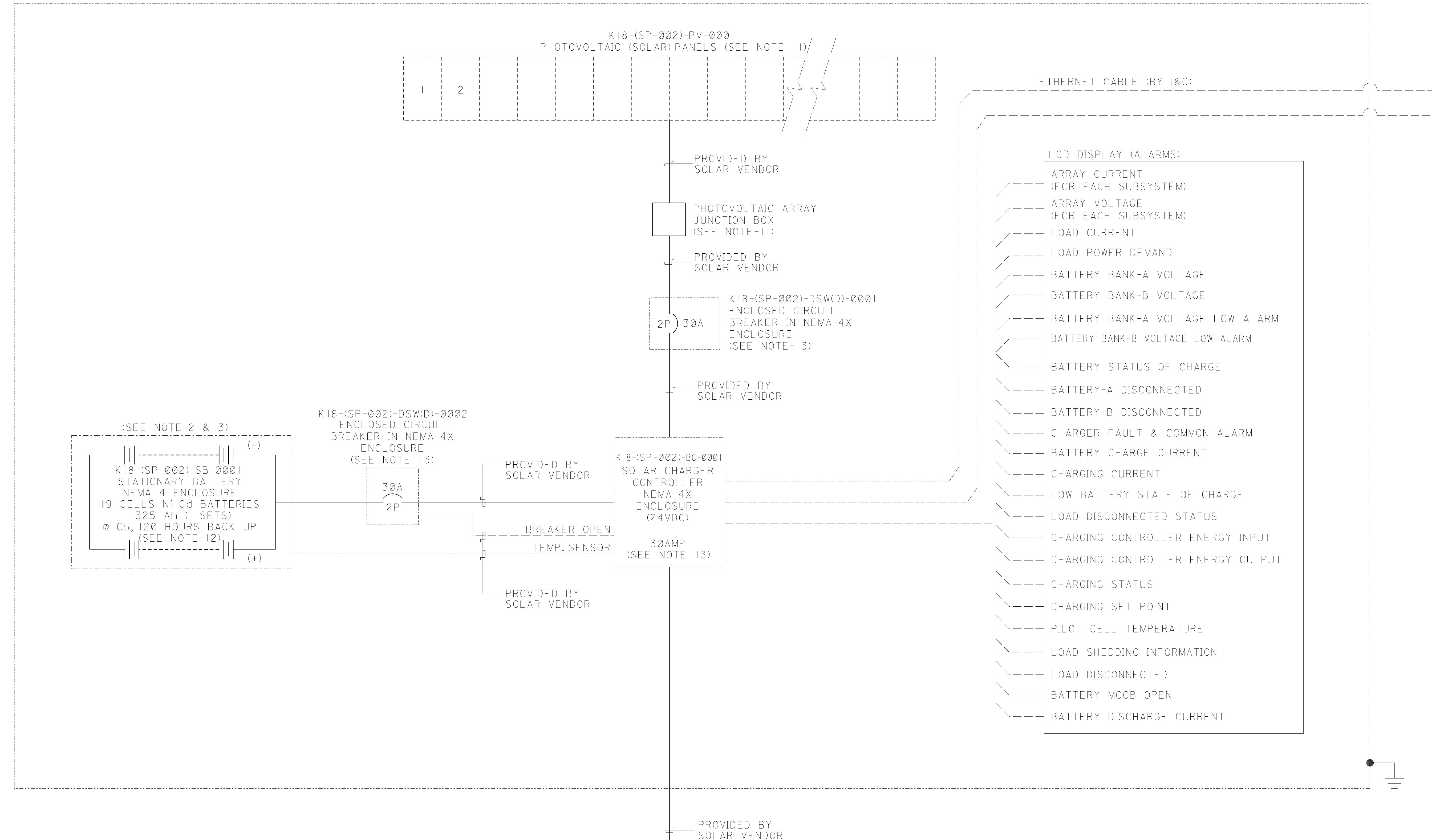


SOLAR SYSTEM (BY VENDOR)



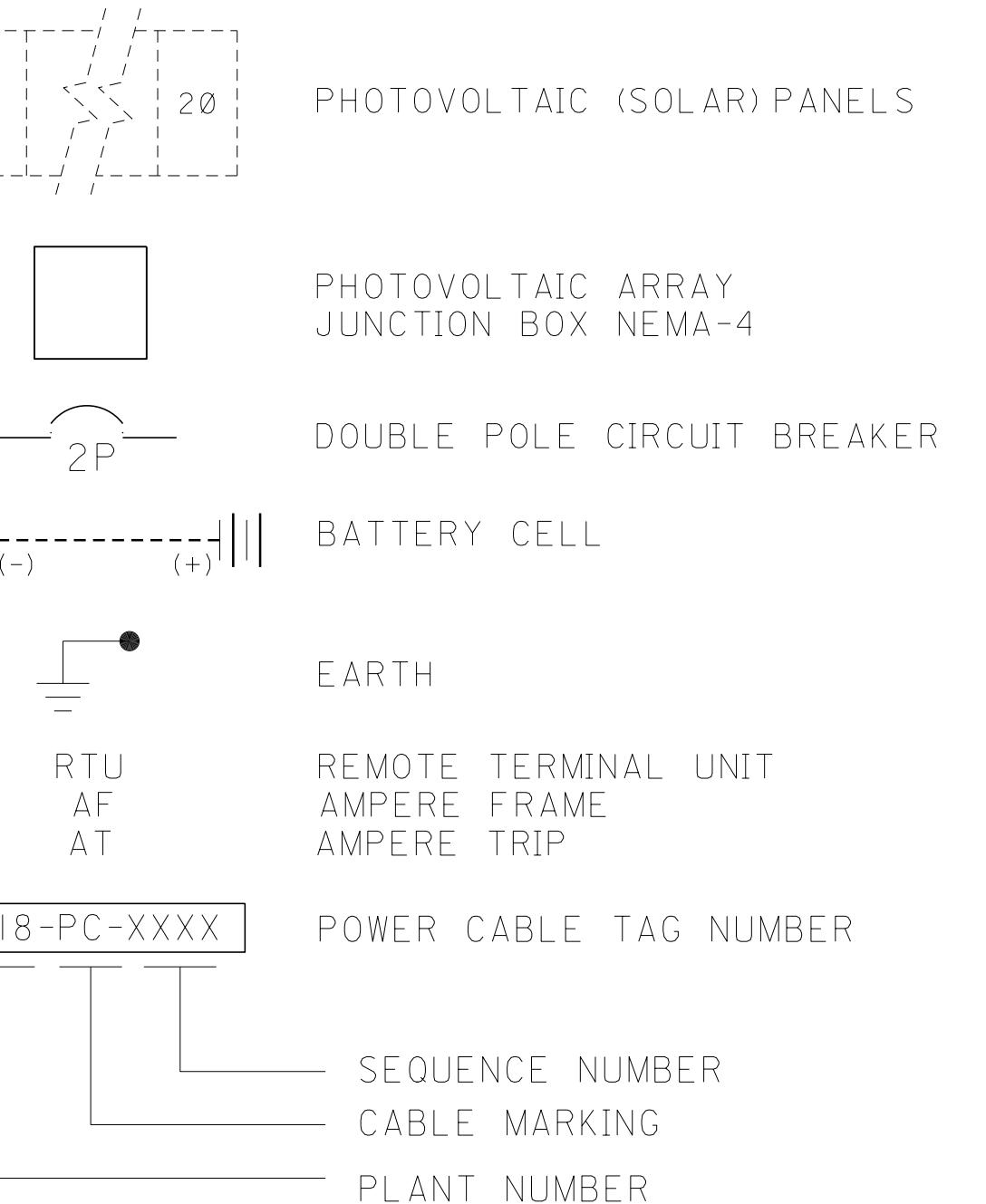
HOLD NOTES:

1. SOLAR SYSTEM, COMMUNICATION EQUIPMENT AND INSTRUMENTATION RATINGS/POWER CONSUMPTION TO BE UPDATED ONCE VENDOR INPUT RECEIVED.
2. ALL ELECTRICAL & I&C EQUIPMENT TAGS.
3. I&C EQUIPMENT (RTU, HOV ETC) VENDOR LOAD DATA AWAITED, ALSO SUPPLY VOLTAGE OF HOV IS UNDER HOLD.

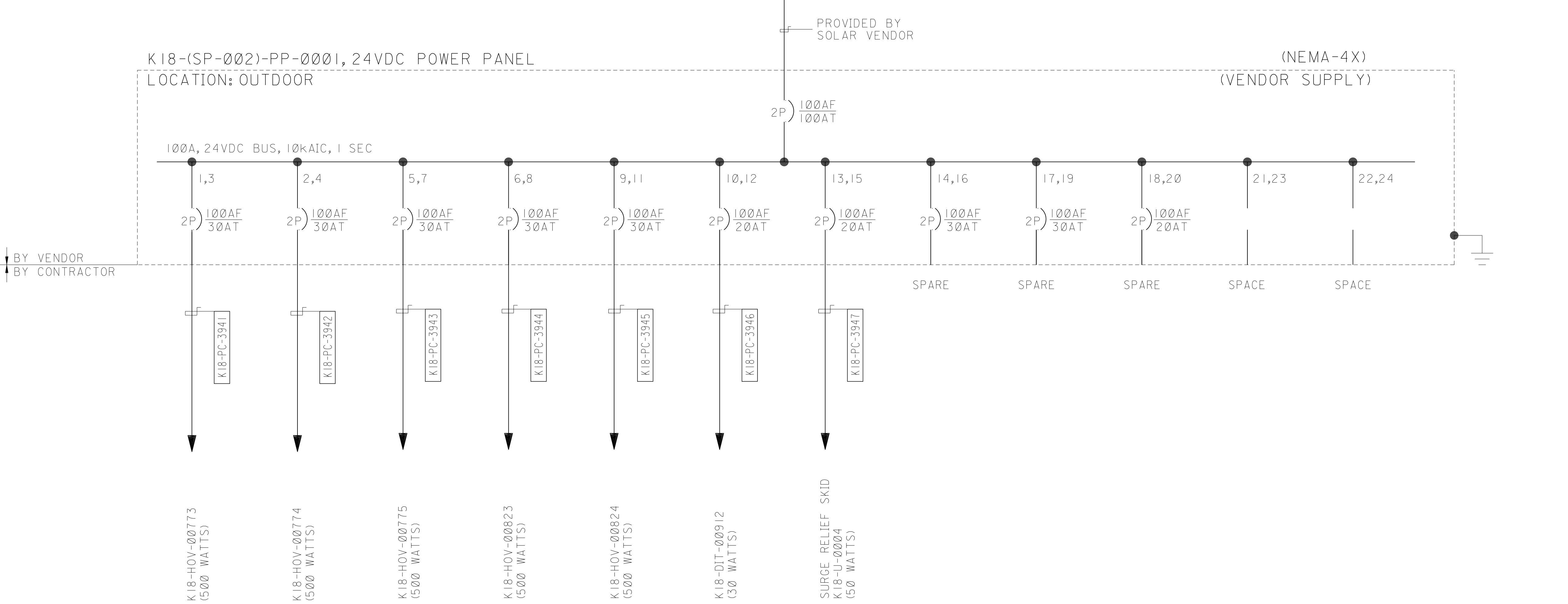
NOTES:

1. PHOTOVOLTAIC (SOLAR) SYSTEM AND INSTALLATION SPECIFICATION SHALL BE IN ACCORDANCE WITH SAUDI ARAMCO ENGINEERING STANDARD SAES-P-103 AND SAES-P-128.
2. VENDOR SHALL PROVIDE BATTERY IN ACCORDANCE WITH 17-SAMSS-511, AND LATEST EDITION OF NFPA-70.
3. OUTDOOR BATTERY INSTALLATIONS, BATTERY ENCLOSURE SHALL BE MADE NON-METALLIC (MADE OF FIBERGLASS-REINFORCED) MATERIAL AS PER SAES-P-128.
4. VENDOR SHALL CONSIDER SITE DERATING FOR AMBIENT TEMPERATURES IN THE SELECTION OF BREAKERS (MCCBA'S AS PER TABLE-I OF SAES-A-112, TABLE-I (40°C)).
5. ALL ALARM INDICATIONS AND INSTRUMENTATION SHALL BE IN ACCORDANCE WITH SAES-P-103, AND 17-SAMSS-514.
6. THE LV PANELBOARD SHALL BE MANUFACTURED IN ACCORDANCE WITH 16-SAMSS-518.
7. DC BUS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE SAUDI ARAMCO MANUFACTURING SPECIFICATION (SAMS).
8. PHOTOVOLTAIC (SOLAR) SYSTEM EQUIPMENT SHALL NOT BE INSTALLED/LOCATED INSIDE THE CLASSIFIED AREA.
9. ALL PANEL BOARD SHALL BE TOTALLY ENCLOSED DEAD FRONT CIRCUIT TYPE, MULTI-POLE BREAKERS SHALL HAVE COMMON TRIP AND SINGLE OPERATING HANDLE.
10. VENDOR SHALL PROVIDE PHOTOVOLTAIC (SOLAR) SYSTEM AS PER LATEST LOAD REQUIREMENTS.
11. VENDOR SHALL CONFIRM THE NUMBER OF PHOTOVOLTAIC (SOLAR) SYSTEM ARRAY AND INSTALLATION ARRANGEMENT, JUNCTION BOXES.
12. VENDOR SHALL CONFIRM THE BATTERY Ah CAPACITY.
13. VENDOR SHALL CONFIRM THE RATINGS OF PHOTOVOLTAIC (SOLAR) SYSTEM CHARGER CONTROLLER AND CIRCUIT BREAKERS.
14. FUSED DISCONNECT COMBINER BETWEEN PHOTOVOLTAIC (SOLAR) SYSTEM ARRAYS AND MPPT CHARGE CONTROLLER SHALL BE PROVIDED BY VENDOR.
15. SAUDI ARAMCO STANDARDS, CUT-OFF DATE MAY 2023 HAS BEEN CONSIDERED.

LEGEND



K18-(SP-002)-PP-0001, 24VDC POWER PANEL
LOCATION: OUTDOOR



REFERENCE DRAWINGS			
DWG. CONTROL FOR J.O. #10-01575-0003	VD-904344		
CABLE ROUTING LAYOUT	VA-077547		
LIGHTING LAYOUT	VA-077549		
PANEL SCHEDULE	VB-077550		
CABLE AND CONDUIT SCHEDULE	VD-077551		

REVISION VALIDATION			
THIS REVISION NO. IS COVERED, FOR ALL APPROVAL AND CERTIFICATION REQUIREMENTS, PER SAEP-334, UNDER DRAWING COMPLETION CERTIFICATE NO:			
DESIGN CERTIFICATION (DESIGN AGENCY)	REVIEW FOR KEY DRAWINGS (SAUDI ARAMCO)	OTHER	
ENGG./DATE	CERTIFIED BY/DATE	CONST. AGENCY/DATE	OPERATIONS/DATE
10/19/25	10/19/25	KHD AAB	10/19/25
REVNO./DATE	REVISION DESCRIPTION	BY DATE	
B / 10/19/25	ISSUED FOR 90% DETAILED DESIGN	10/19/25	

JOB ORDER/FWO NO. 10-01575-0003 THIS REVISION IS NOT TO BE USED FOR CONSTRUCTION UNTIL CERTIFIED AND DATED

SAUDI ARABIAN OIL COMPANY

ELECTRICAL ONE LINE DIAGRAM ELD

MLIV STATION @ KM.19.400

EAST/WEST PIPELINE #2

YANBU SAUDI ARABIA

PLANT NO. INDEX DRAWING NUMBER SHT. NO. REV. NO.

K18 P VA-077546 001 B