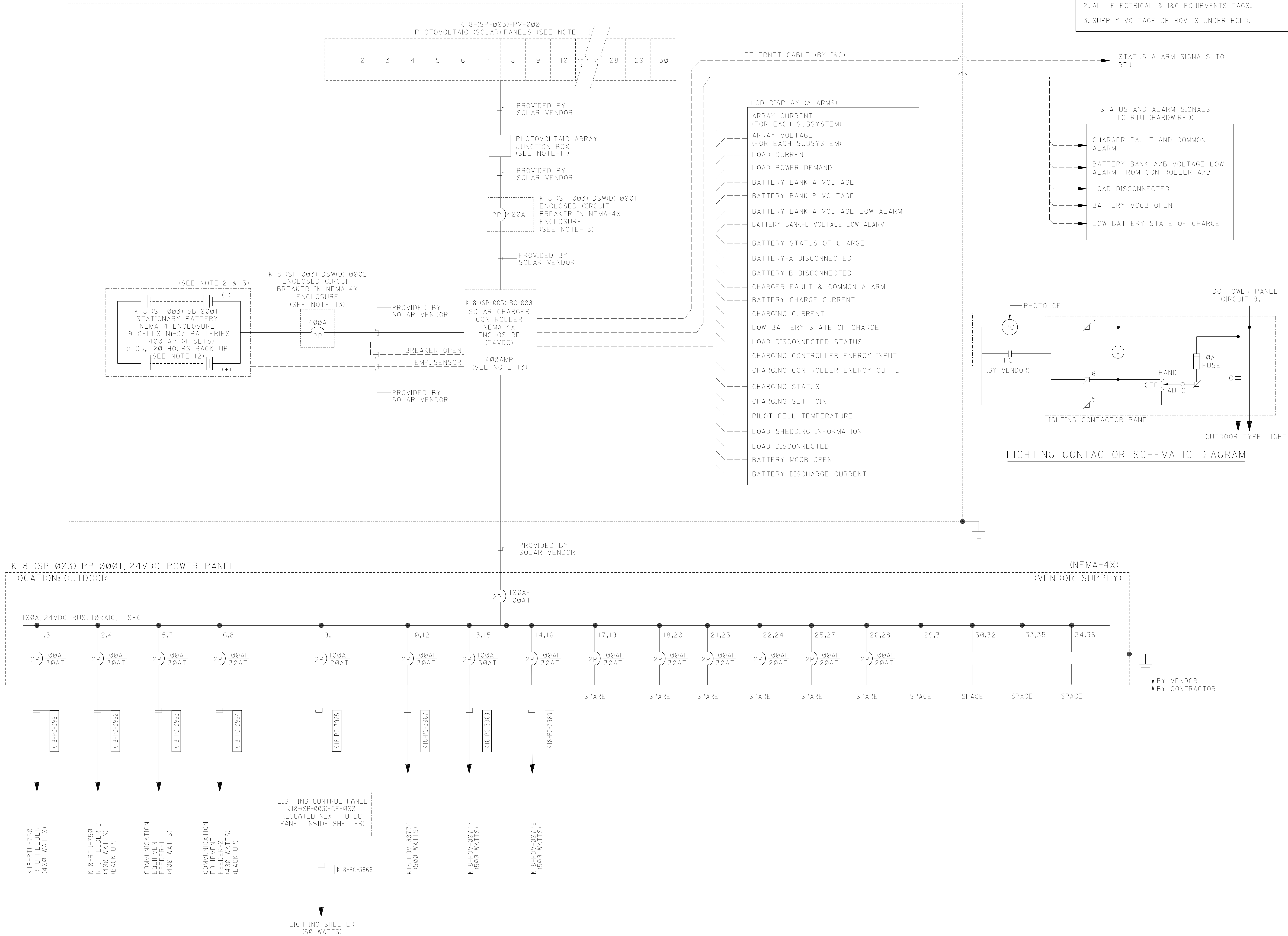


## SOLAR SYSTEM (BY VENDOR)



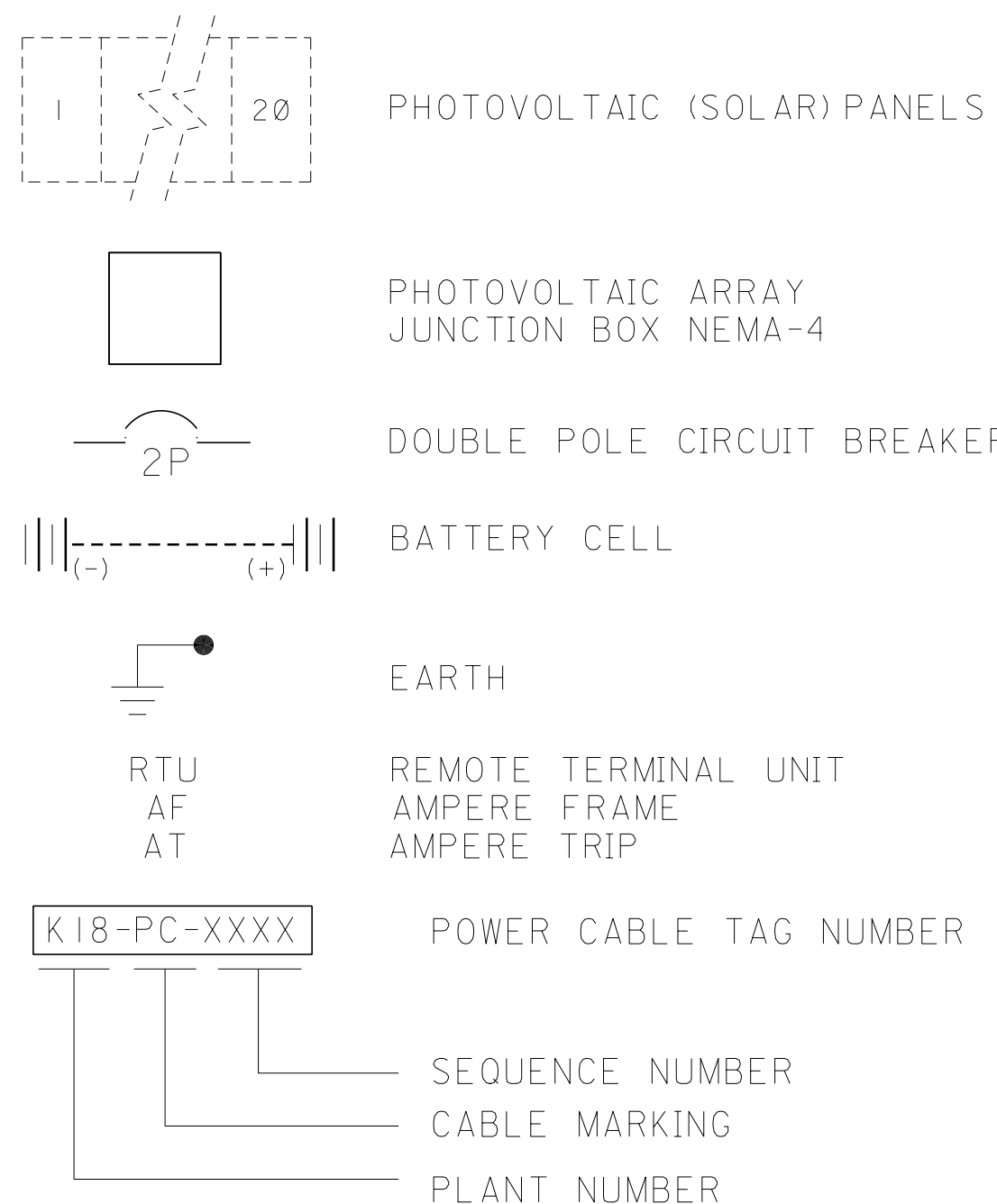
## HOLD NOTES:

1. SOLAR SYSTEM, COMMUNICATION EQUIPMENT AND INSTRUMENTATION RATINGS/POWER CONSUMPTION TO BE UPDATED ONCE VENDOR INPUT RECEIVED.
2. ALL ELECTRICAL & I&C EQUIPMENTS TAGS.
3. SUPPLY VOLTAGE OF HOV IS UNDER HOLD.

NOTES:

1. PHOTOVOLTAIC (SOLAR) SYSTEM AND INSTALLATION SPECIFICATION SHALL BE IN ACCORDANCE WITH SAUDI ARABCO 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 (MCCB) AS PER TABLE-1 OF SAES-A-112, TABLE-1 (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 ARABCO 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 ARABCO STANDARDS, CUT-OFF DATE MAY 2023 HAS BEEN CONSIDERED.

LEGEND



REFERENCE DRAWINGS

DWG. CONTROL FOR J.O. #10-01575-0003	VD-904344
CABLE ROUTING LAYOUT	VA-077577
LIGHTING LAYOUT	VA-077579
PANEL SCHEDULE	VB-077580
CABLE AND CONDUIT SCHEDULE	VD-077581

## 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 FFA 10/19/25	CERTIFIED BY/DATE LAK 10/19/25	CONST. AGENCY/DATE KHI 10/19/25	OPERATIONS/DATE AAB 10/19/25	BY/DATE	
REV.NO. /DATE B 10/19/25	REVISION DESCRIPTION ISSUED FOR 90% DETAILED DESIGN				

3 ORDER/EWO NO. 10-01575-0003	THIS REVISION IS NOT TO BE USED FOR CONSTRUCTION UNTIL CERTIFIED AND DATED
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SAUDI ARABIAN OIL COMPANY

ELECTRICAL ONE LINE DIAGRAM

MI IV STATION @ KM.34.00

YANBU SAUDI ARABIA

PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.
K18	P	VA-077576	001	B