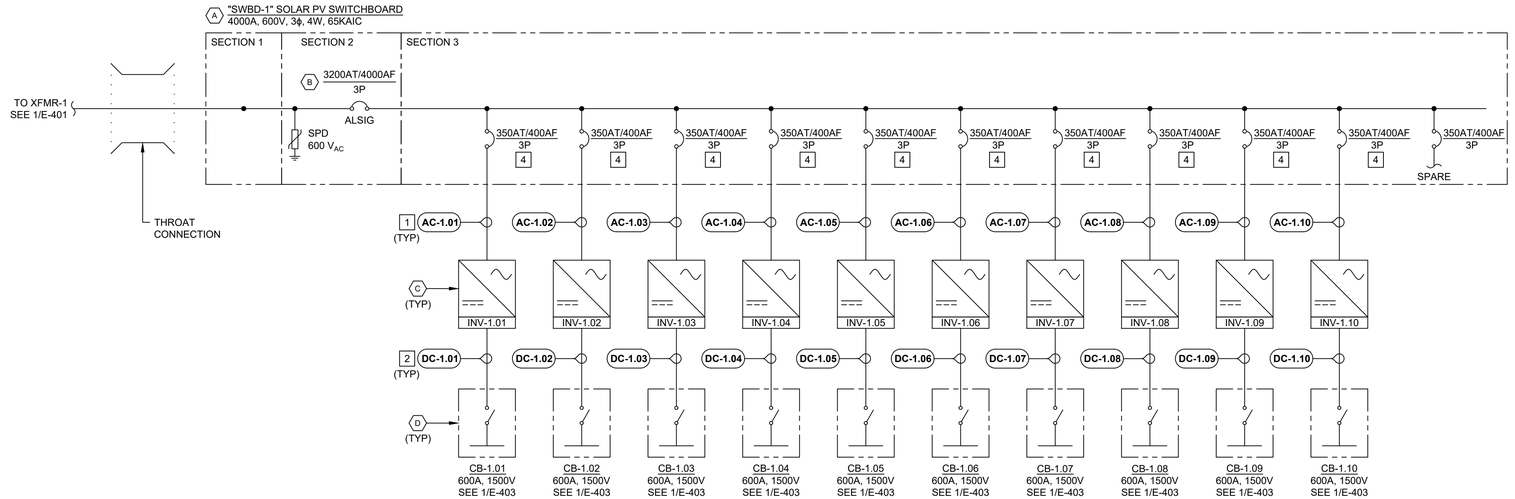
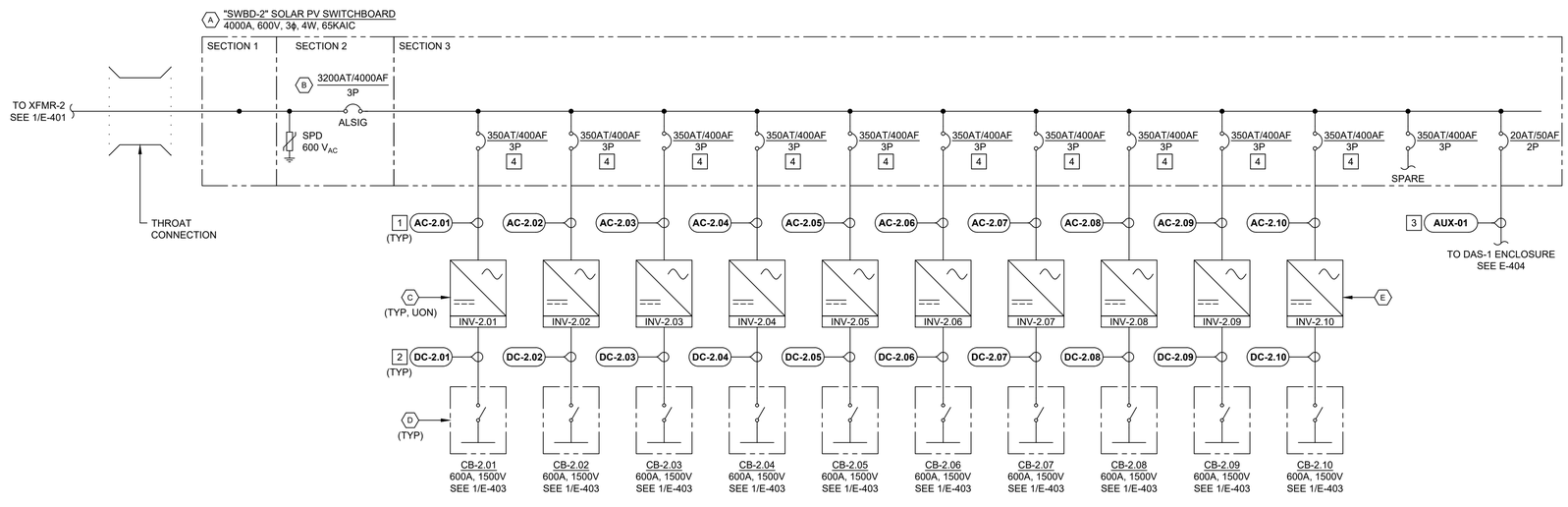


1 SINGLE LINE DIAGRAM - SWBD-1
SCALE: NTS



2 SINGLE LINE DIAGRAM - SWBD-2
SCALE: NTS

EQUIPMENT SPECS:

A. 4000A, 600V, 3ϕ, 4W, 65KAIC LOW VOLTAGE AC SWITCHBOARD, FRONT ACCESS, BOTTOM ENTRANCE IN NEMA 3R WEATHERPROOF ENCLOSURE, OAE. EQUIPMENT RATINGS SHALL BE AS INDICATED. ALL CIRCUIT BREAKERS SHALL BE 100% RATED, BI-DIRECTIONAL, AND LOCKABLE.

B. MAIN BREAKER SHALL HAVE RATINGS AS INDICATED, AND SHALL INCLUDE GROUND FAULT PROTECTION AND ARC FLASH ENERGY REDUCTION MAINTENANCE SYSTEM (AERMS).

C. 250KW, 250KVA, 240.6A, 600V, 3ϕ, 3W STRING INVERTER, SOLECTRIA XGI 1500-250/250-600.

D. 1500VDC, NEMA 4X STANDARD COMBINER BOX WITH 100% RATED INTEGRATED DC DISCONNECT SWITCH. COMBINER BOX SHALL BE SUITABLE FOR UNGROUNDED SYSTEM PER NEC 2020 AND SHALL HAVE FUSED INPUTS FOR POSITIVE CONDUCTORS. COMBINER BOX SHALL BE UL 1741 LISTED AND FUSES SHALL BE UL 2579 LISTED, IN A PAD-LOCKABLE ENCLOSURE. FUSES TO BE PROCURED AND INSTALLED BY CONTRACTOR.

E. 225KW, 225KVA, 216.5A, 600V, 3ϕ, 3W STRING INVERTER, SOLECTRIA XGI 1500-225/225-600.

KEYED NOTES:

1. SEE LVAC CABLE SCHEDULE ON E-502.
2. SEE DC CABLE SCHEDULE ON E-501.
3. SEE AUX CABLE SCHEDULE ON E-404.
4. CONDUCTORS ARE LARGER THAN THE STANDARD SIZE THE BREAKER TERMINALS ACCEPT. CONTRACTOR SHALL USE COMPRESSION PIN ADAPTERS COMPATIBLE WITH CABLE SIZE AND BREAKER TERMINALS. CONTRACTOR SHALL CONFIRM THAT SWITCHBOARD HAS ADEQUATE BENDING SPACE TO ACCOMMODATE.

DESIGN COORDINATOR

KNOBELSDORFF
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PROJECT

138883 CEMETERY SUN, LLC
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FREDERICK, IL 62639
40.089020°, -90.442132°

ENGINEER

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SEAL

LICENSED PROFESSIONAL ENGINEER
BRICE CASEBEER
062-070349
02/27/2026
STATE OF ILLINOIS

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REVISIONS

#	DESCRIPTION	DATE
0	IFC	02/06/2026
1	IFC R1	02/27/2026

ISSUED FOR CONSTRUCTION
FEBRUARY 27, 2026

138883 CEMETERY SUN, LLC
FREDERICK, IL, 62639

SHEET TITLE

SINGLE LINE DIAGRAM - LVAC

SHEET NO.

E-402

THIS EDGE INTENTIONALLY LEFT BLANK FOR BINDING - PAPER SIZE 34" X 22" - THIS EDGE INTENTIONALLY LEFT BLANK FOR BINDING - PAPER SIZE 34" X 22" - THIS EDGE INTENTIONALLY LEFT BLANK FOR BINDING