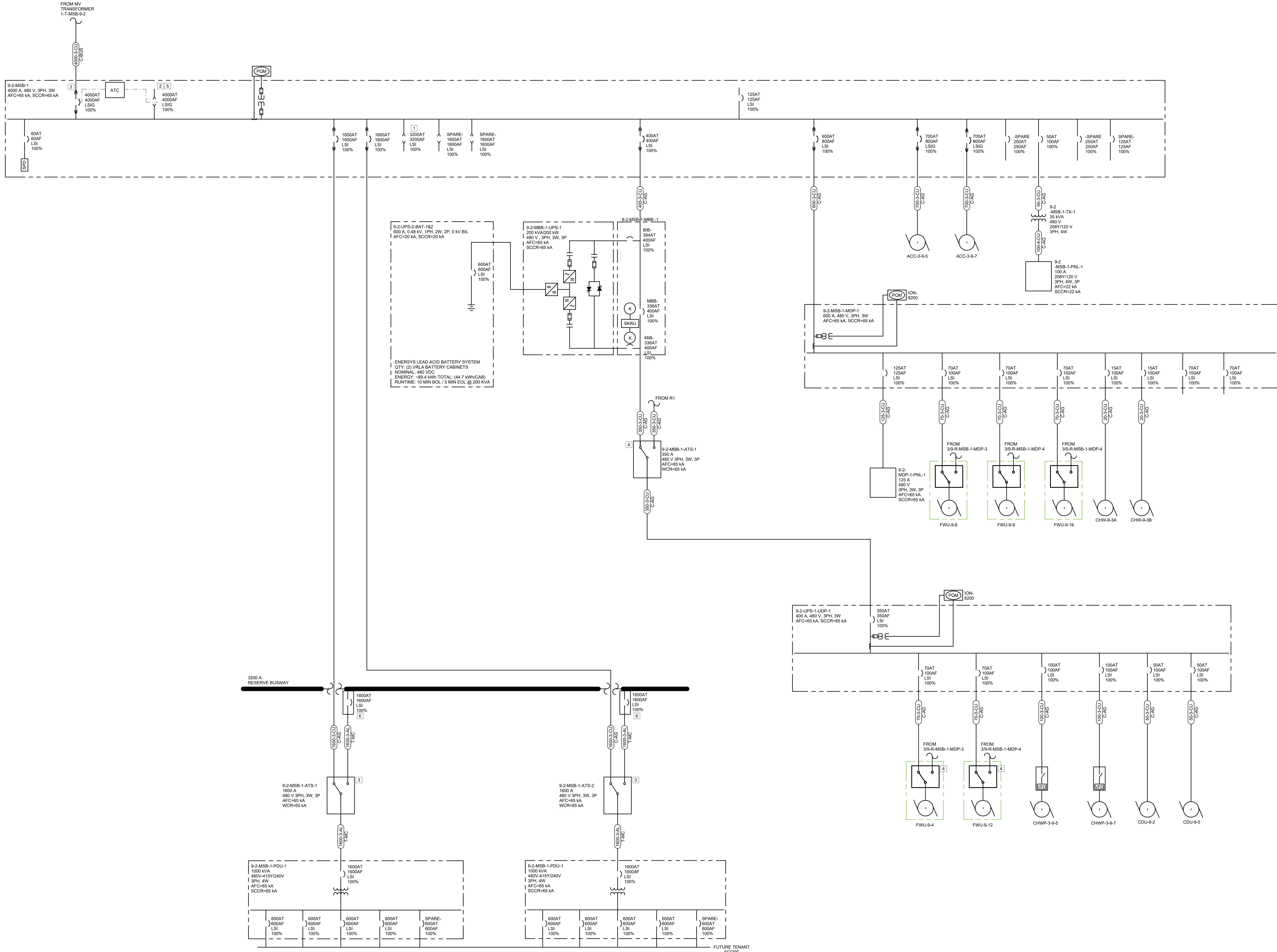




GENERAL NOTES

1. REFER TO ESD-01 FOR LINE TYPE LEGEND.

2. REFER TO THE ESD-03 SERIES DRAWINGS FOR EQUIPMENT LOCATIONS.

3. CIRCUIT BREAKERS ARE 3P, 100% RATED WITH LSI TRIP UNITS UNLESS NOTED OTHERWISE.

4. EQUIPMENT IN PRE-PURCHASE MATRIX IS FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. MATERIALS (CABLE, RACEWAY, ETC.) REQUIRED FOR INSTALLATION AND CONNECTION OF PRE-PURCHASED EQUIPMENT IS BY CONTRACTOR UNLESS OTHERWISE NOTED. ANY EQUIPMENT NOT IN THE MATRIX AND NOT SPECIFICALLY CALLED OUT AS BEING OWNERS FURNISHED SHALL BE FURNISHED AND INSTALLED COMPLETE BY THE CONTRACTOR.

5. THE ROUTING OF THIS CABLE SHALL BE NEAT AND A PLAN SHALL BE PRESENTED TO THE OWNER AND ENGINEER DETAILING PROPOSED ROUTING FOR APPROVAL PRIOR TO BEGINNING THIS WORK.

6. ENGINEER SHALL PROVIDE ELECTRICAL CONTRACTOR A SPREADSHEET PRIOR TO COMMISSIONING WITH A LIST OF ALL THE CIRCUIT BREAKER TYPES AND PLUGS USED TO CONSTRUCT THE MODEL. FOR THE COORDINATION STUDY. ELECTRICAL CONTRACTOR SHALL TAKE SPREADSHEET INTO THE FIELD AND VERIFY EACH BREAKER IN SHEET MATCHES WHAT IS INSTALLED. PROVIDE LIST OF DISCREPANCIES, IF ANY, TO THE ENGINEER WITHIN 3 WORKING DAYS OF RECEIPT OF DOCUMENT.

7. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE SET OF AS-BUILT FEEDER CONFIGURATIONS AND LENGTHS TO THE ENGINEER FOR USE IN THE SHORT CIRCUIT AND ARC FLASH STUDIES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

8. REFER TO OWNER-FURNISHED EQUIPMENT SCHEDULE AND FEEDER SCHEDULES FOR ADDITIONAL INFORMATION.

9. SECONDARY TAP CONDUCTORS FOR OUTSIDE TRANSFORMERS ARE COMPLIANT WITH NEC 240.21(C) (2), INSTALLED IN ACCORDANCE WITH 230.8

10. ALL POWER AND GROUNDING CONNECTIONS SHALL USE NEMA 2-HOLE, LONG BARREL COMPRESSION TYPE CONNECTIONS WITH NO OX COMPOUND, UNLESS OTHERWISE INDICATED. MARK LUG AND BUS WITH PERMANENT MARKER AFTER INSTALLATION AND VERIFICATION OF PROPER TORQUE TO INDICATE CORRECT BOLT TORQUE LOCATION BOLTS, FLAT WASHERS, AND BELLEVILLE WASHERS SHALL BE GRADE 5 WITH A MINIMUM OF THREE (3) THREADS SHOWING AFTER TORQUES IS COMPLETE. SEE DETAILS 5 FOR GROUNDING TERMINATIONS AND POWER TERMINATIONS.

11. ALL CONTROL WIRING TERMINATIONS SHALL USE RING TYPE OR WAGO COMPRESSION CONNECTORS. ALL WIRING SHALL BE LABELED.

12. PROVIDE GLAND TYPE CONNECTORS FOR ALL BATTERY CABLES PUNCHING DOWN ON THE TOP OF UPS MODULES AND BATTERY CABINETS.

13. RESTRAIN ALL FEEDERS 800A AND ABOVE TO PREVENT CABLE MOVEMENT DURING EXTERNAL FAULT CONDITIONS AT ALL SWITCHBOARDS, UPS, BATTERY CABINETS AND CABLE TRAYS WITH BATTERY CABLES. PROVIDE AS RECOMMENDED BY MANUFACTURER FOR THE AVAILABLE FAULT CURRENT. TYPICALLY, PROVIDE THE FOLLOWING:
A. WRAP LINE CABLES TOGETHER AT 6" AND 12" FROM TERMINALS WITH 5 WRAPS OF 3/8" NYLON ROPE OR EQUIVALENT (TENSILE STRENGTH OF 2000LB)
B. SUPPORT THE REMAINDER OF THE CABLE WITH FIVE WRAPS EVERY 6" OR ONE WRAP EVERY 1'

14. COORDINATION STUDY TO BE COMPLETED ONCE FINAL EQUIPMENT SUBMITTALS HAVE BEEN RECEIVED AND DEVICES VERIFIED ON SITE. CONTRACTOR TO PROVIDE FINAL FEEDER LENGTHS TO ENGINEER FOR COORDINATION STUDY AND ARC FLASH ANALYSIS.

ISSUES

1 11/12/2025 CONCEPTUAL DESIGN

2 12/12/2025 SCHEMATIC DESIGN

3 12/17/2025 STEEL MILL ORDER

4 1/23/2026 DESIGN DEVELOPMENT

KEYED NOTES

1 FUTURE PROVISION FOR MBB BREAKER

2 BREAKER TOP OR BOTTOM FED

3 FOR ALL ATS SERVING CRITICAL IT LOADS ON EACH 7-TO-MAKE-6 POWER PLANT, PROVIDE TRANSFER INHIBIT CONTROLS SO THAT NO MORE THAN ONE (2) 1600A CRITICAL IT ATS MAY TRANSFER TO THE RESERVE BLOCK AT ANY TIME. ADDITIONAL CRITICAL IT ATS TRANSFERS SHALL BE INHIBITED UNTIL THE ACTIVE TRANSFER OR RETRANSFER IS COMPLETE

4 FOR ALL MUPS LOAD ATS ON EACH 7-TO-MAKE-6 POWER PLANT, PROVIDE TRANSFER INHIBIT CONTROLS SO THAT NO MORE THAN ONE (1) MUPS ATS MAY TRANSFER TO THE RESERVE BLOCK AT ANY TIME. ADDITIONAL MUPS ATS TRANSFERS SHALL BE INHIBITED UNTIL THE ACTIVE TRANSFER OR RETRANSFER IS COMPLETE

5 PREPARED SPACE ON ALL BLOCKS, ONLY PROVIDE BREAKER ON BLOCKS FOR DATAHALLS 1,4,7 AND 10

6 ELECTRICAL CONTRACTOR SHALL PROVIDE (3) FAULT INDICATORS AT LOCATION INDICATED. FAULT INDICATORS SHALL BE COMPATIBLE WITH THE CONDUCTOR SIZE AT THE INPUT SWITCHES OF EACH TRANSFORMER. FAULT INDICATORS SHALL BE COOPER POWER SERIES TYPE S.T.A.R CURRENT RESET FAULTED CIRCUIT INDICATORS. NO EXCEPTIONS.

FEEDER NAMING SCHEME

INDICATES CONDUCTOR MATERIAL

INDICATES 3 OR 4 WIRE

INDICATES AMPACITY

CONVEYANCE

INDICATES CONDUCTOR VOLTAGE CLASS/USAGE

MATERIAL LEGEND:

AL ALUMINUM

CU COPPER

CLASSUSAGE LEGEND:

[BLANK] 600V, TYP LV DISTRIBUTION

T 600V, FOR LV XNMR

G 600V, FOR LV GENERATOR

MV 35KV, MV DISTRIBUTION

CONVEYANCE LEGEND:

C-AG ABOVE GRADE CONDUIT

C-BG BELOW GRADE CONDUIT

C-BUS CABLEBUS

T-MC MC CABLE IN TRAY

T-CT CABLE TRAY WIRE IN TRAY

NOT FOR CONSTRUCTION

SERVERFARM

CRITICAL POWER BLOCK ONE-LINE DIAGRAM 9-2

JOB SHEET

E01-09B