



ISSUES

1 01.31.2025 100% ISSUE FOR PERMIT

2 08.08.2025 ISSUE FOR CONSTRUCTION

REVISIONS

1 04/09/2025 PCR05

2 11/07/2025 BULLETIN 04

CORE SCIENTIFIC DENTON SOUTH

8151 JIM CHRISTAL ROAD
DENTON, TX 76207

ELECTRICAL
ONE-LINE -
SWBD-MA-01H

JOB 240129.01
DATE 11.07.2025
SHEET

Telios Corporation
146 Payne Street
Dallas, TX 75207
214.744.6199
Texas Registration
#F-6494

E07-12A

BREAKER FUNCTION ABBREVIATIONS	
COM.	BREAKER SUPPLIED WITH COMM. MODULE
DC.	BREAKER SUPPLIED WITH DRY CONTACTS
IC.	INTEGRATED CIRCUIT BREAKER
LSI.	LONG TIME, SHORT TIME, INSTANTANEOUS
LSIG.	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
MDGF.	MODIFIED DIFFERENTIAL GROUND FAULT
RELT.	REDUCE ENERGY LET THRU
ST.	SHUNT TRIP
TUM.	TRIP UNIT METERING

FEEDER NAMING SCHEME	
OCPD SIZE (AMPS)	CONDUCTOR MATERIAL
CAG (400A-3WAL)	CAG (400A-3WAL)
CONDUCTOR CONVEYANCE	WIRE QTY
	VOLTAGE CLASSUSAGE

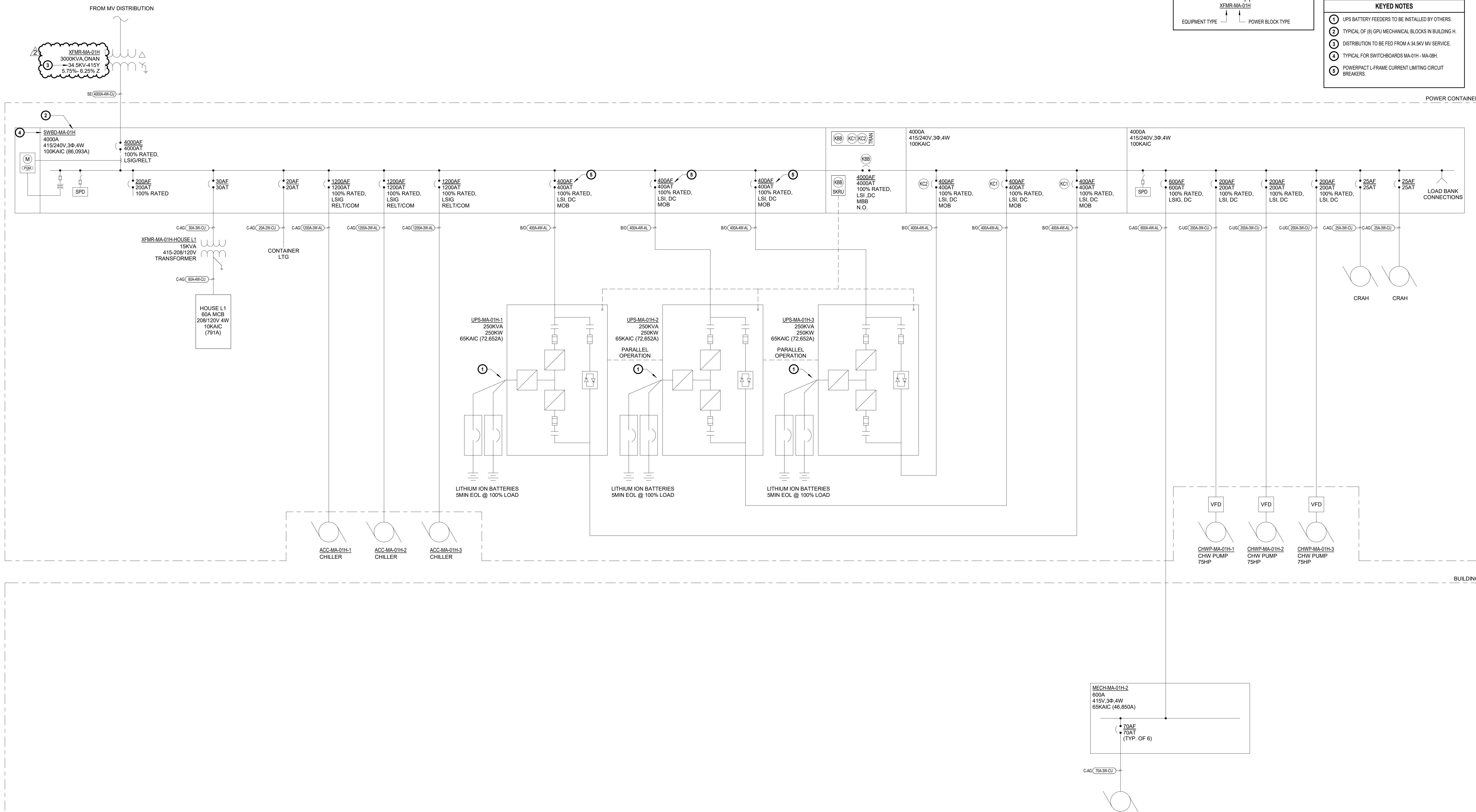
MATERIAL LEGEND	
AL ALUMINUM	C-AG ABOVE-GRADE CONDUIT
CU COPPER	C-BG BELOW-GRADE CONDUIT
	CB CABLE BUS
	CT CABLE TRAY
	B/O FEEDER BY OTHERS (FOR REFERENCE ONLY)

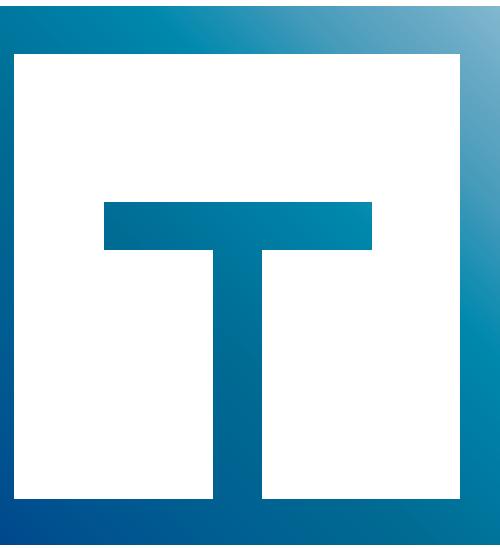
UPS BREAKER ABBREVIATIONS	
MB - MAIN INPUT BREAKER (UPS)	
MOB - MAIN OUTPUT BREAKER (UPS)	
MBB - MAIN BYPASS BREAKER (UPS)	

VOLTAGE CLASSUSAGE LEGEND	
[BLANK]	600V LOW-VOLTAGE DISTRIBUTION
MV	34.5KV, MEDIUM-VOLTAGE DISTRIBUTION

POWER BLOCK NAMING SCHEME	
ITERATION NUMBER	BUILDING LETTER
XFMR-MA-01H	
EQUIPMENT TYPE	POWER BLOCK TYPE

KEYED NOTES	
(1)	UPS BATTERY FEEDERS TO BE INSTALLED BY OTHERS.
(2)	TYPICAL OF (8) GPU MECHANICAL BLOCKS IN BUILDING H.
(3)	DISTRIBUTION TO BE FED FROM A 34.5KV MV SERVICE.
(4)	TYPICAL FOR SWITCHBOARDS MA-01H - MA-08H.
(5)	POWERPACT L-FRAME CURRENT LIMITING CIRCUIT BREAKERS.





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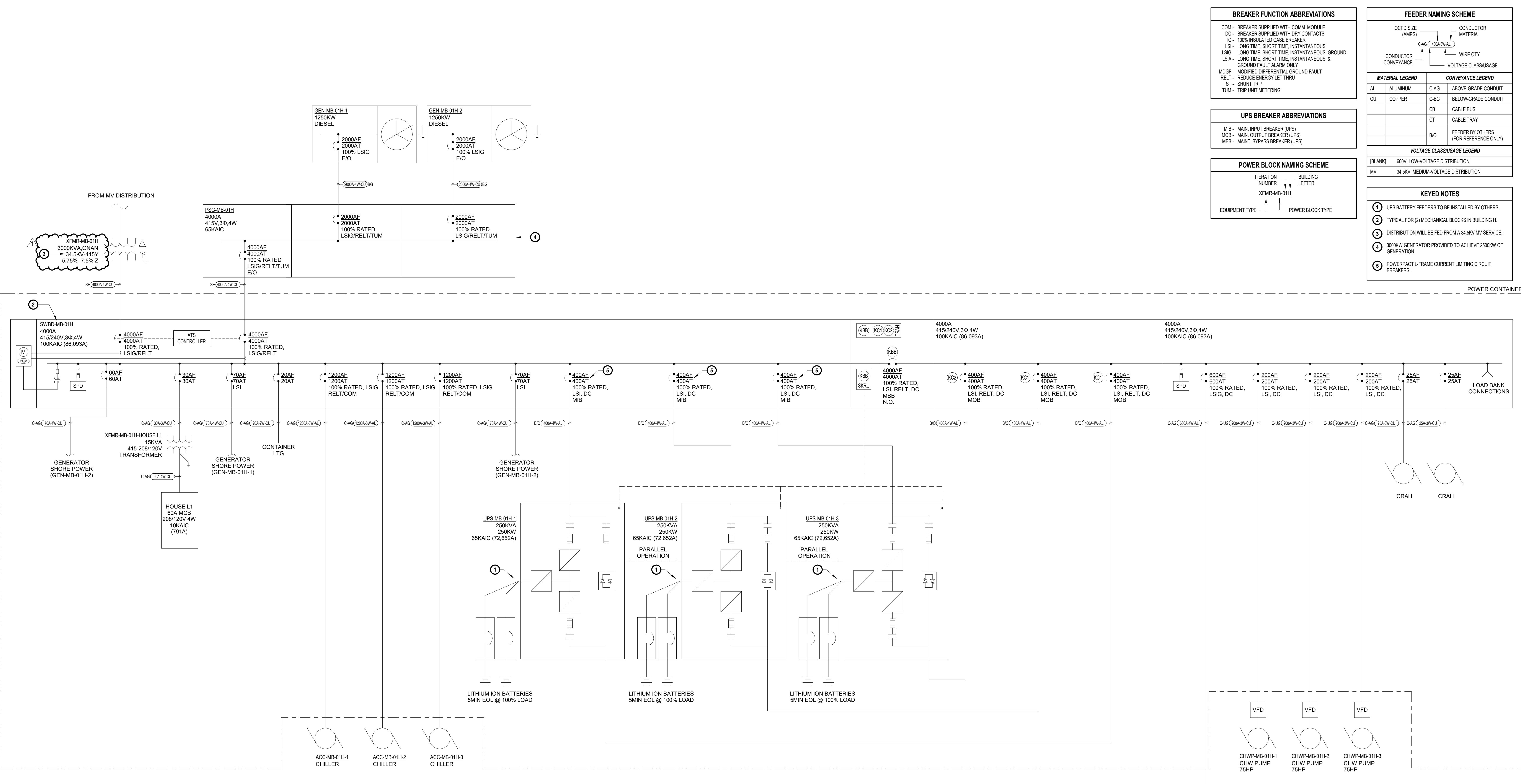
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CORE SCIENTIFIC DENTON SOUTH

8151 JIM CHRISTAL ROAD
DENTON, TX 76207



BREAKER FUNCTION ABBREVIATIONS	
COM	BREAKER SUPPLIED WITH COMM. MODULE
DC	BREAKER SUPPLIED WITH DRY CONTACTS
IC	100% INTEGRATED BREAKER
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS GROUND
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS & GROUND FAULT ALARM ONLY
MDF	MAIN DEDICATED GROUND FAULT
REL	REDUCE ENERGY LET THRU
ST	SHUNT TRIP
TUM	TRIP UNIT METERING

FEEDER NAMING SCHEME	
OCPD SIZE (AMPS)	CONDUCTOR MATERIAL
C-AG 400A-3WAL	CONDUCTOR CONVEYANCE
CONDUCTOR	VOLTAGE CLASS/USAGE
WIRE QTY	

MATERIAL LEGEND	
AL	ALUMINUM
CU	COPPER
C-BG	BELOW-GRADE CONDUIT
CB	CABLE BUS
CT	CABLE TRAY
BI	FEEDER BY OTHERS (FOR REFERENCE ONLY)

VOLTAGE CLASS/USAGE LEGEND	
[BLANK]	600V LOW-VOLTAGE DISTRIBUTION
MV	34.5KV, MEDIUM-VOLTAGE DISTRIBUTION

UPS BREAKER ABBREVIATIONS	
MIB	MAIN INPUT BREAKER (UPS)
MOB	MAIN OUTPUT BREAKER (UPS)
MBB	MAINT. BYPASS BREAKER (UPS)

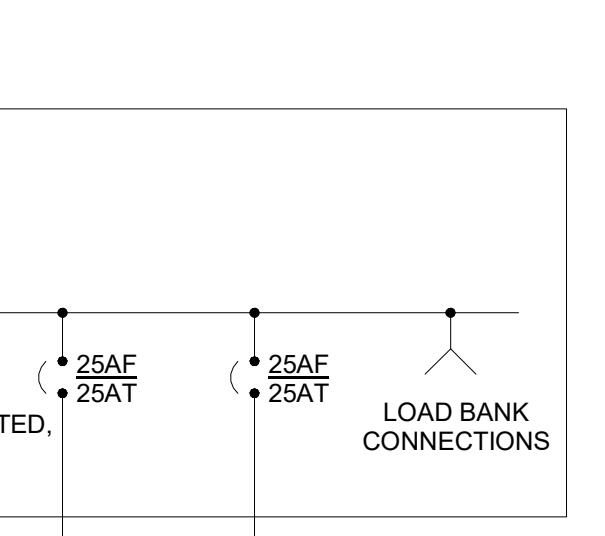
POWER BLOCK NAMING SCHEME	
ITERATION NUMBER	BUILDING LETTER

EQUIPMENT TYPE	POWER BLOCK TYPE
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KEYED NOTES	
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- ① UPS BATTERY FEEDERS TO BE INSTALLED BY OTHERS
- ② TYPICAL FOR (2) MECHANICAL BLOCKS IN BUILDING H.
- ③ DISTRIBUTION WILL BE FED FROM A 34.5KV MV SERVICE.
- ④ 300KW GENERATOR PROVIDED TO ACHIEVE 2500KW OF GENERATION.
- ⑤ POWERPACT L-FRAME CURRENT LIMITING CIRCUIT BREAKERS.

POWER CONTAINER

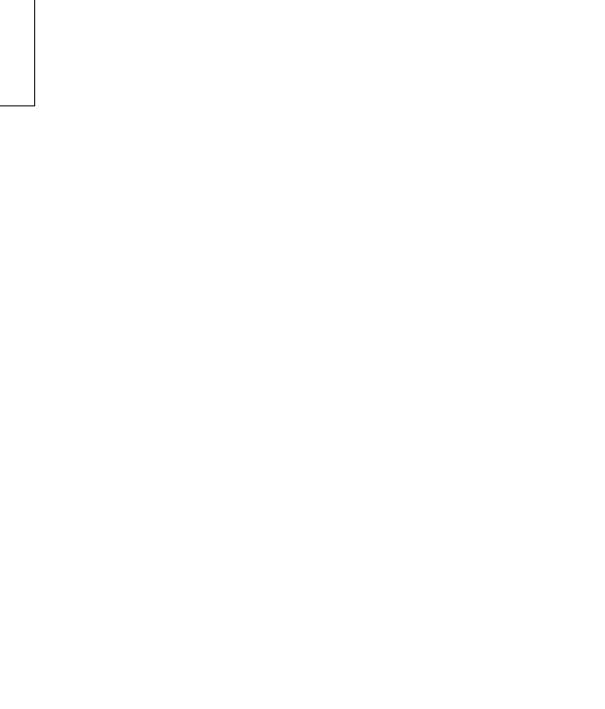


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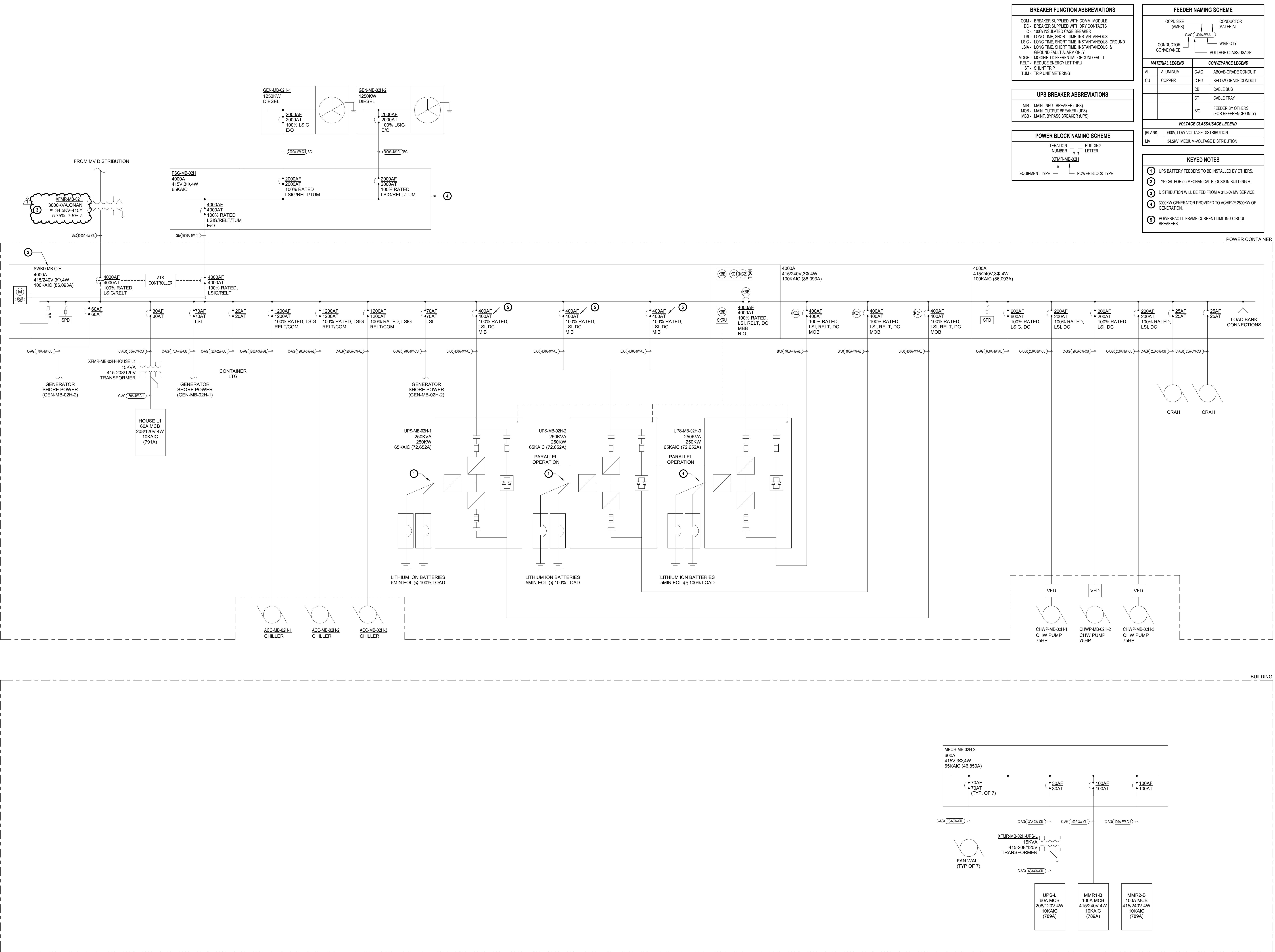
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11.07.2025

11.07.2025

BUILDING



ELECTRICAL
ONE-LINE -
SWBD-MB-01H



CORE SCIENTIFIC DENTON SOUTH

3151 JIM CRISI AL ROAD
DENTON, TX 76207

3151 JIM CRYSTAL ROAD
DENTON, TX 76207

**ECTRICAL
-LINE -
D-MB-02H**

JOB 240129.01
DATE 11.07.2025
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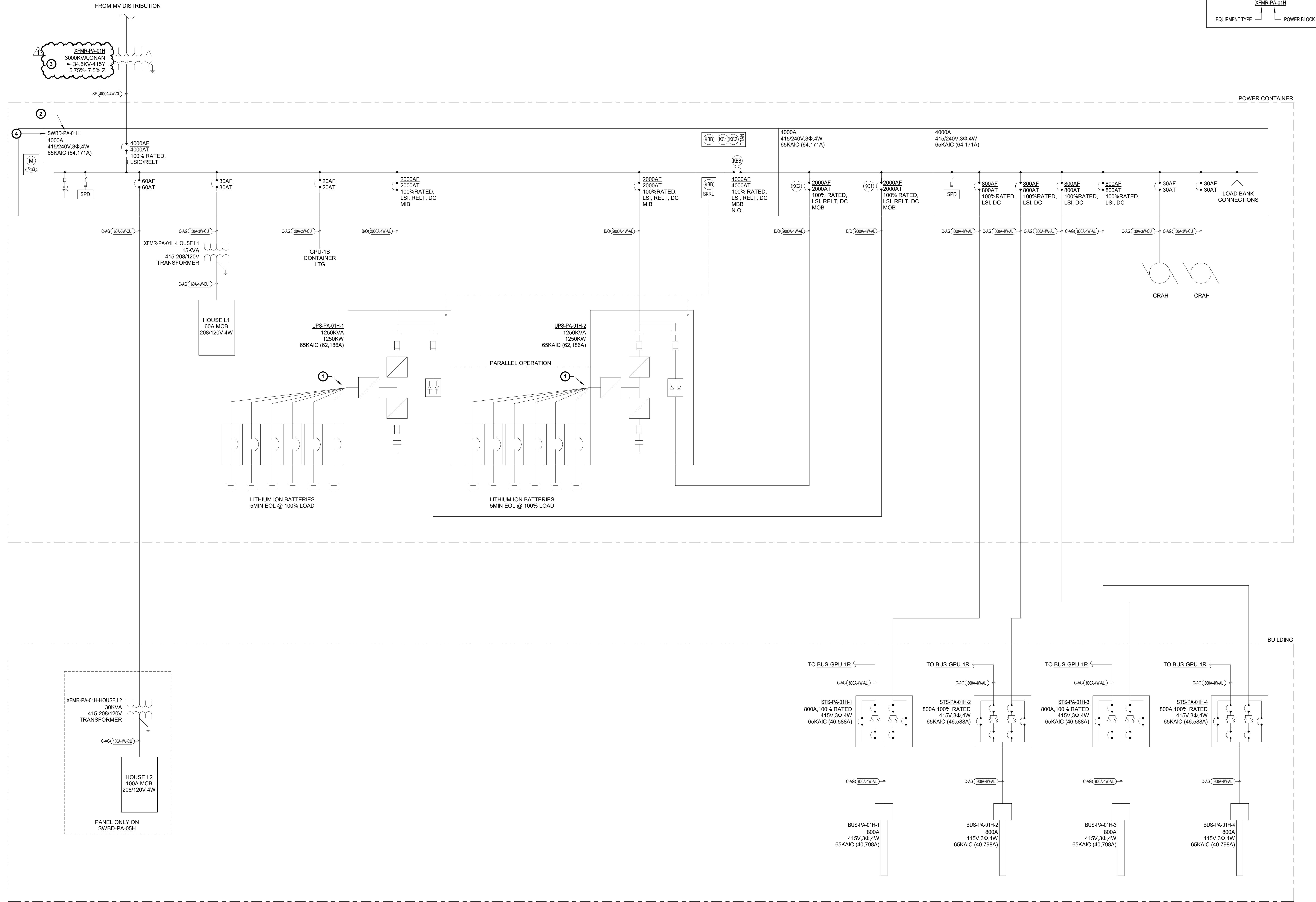
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8151 JIM CHRISTAL ROAD
DENTON, TX 76207

ELECTRICAL
ONE-LINE -
SWBD-PA-01H

JOB 240129.01
DATE 11.07.2025
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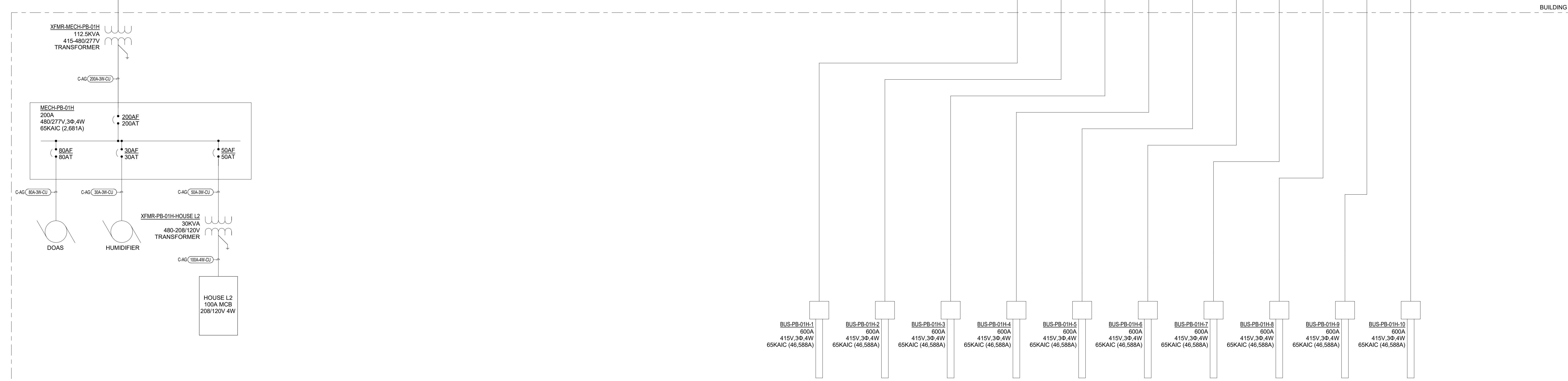
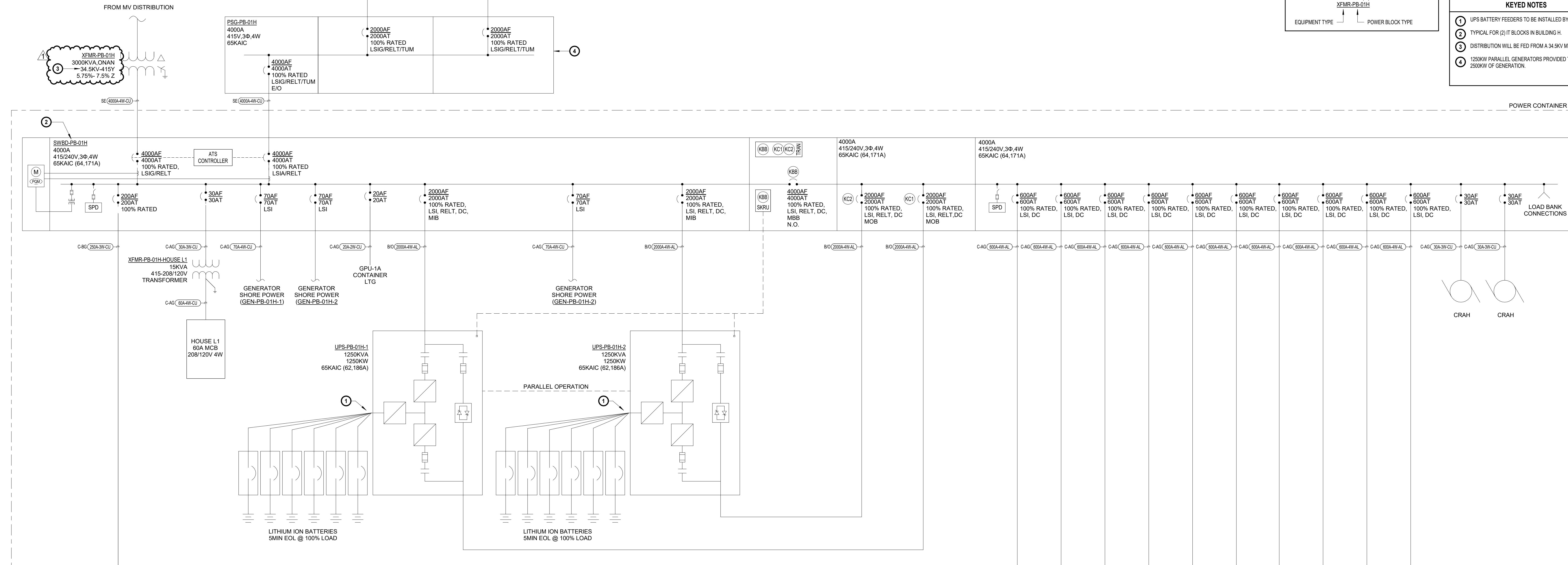
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DENTON, TX 76207





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DENTON, TX 76207

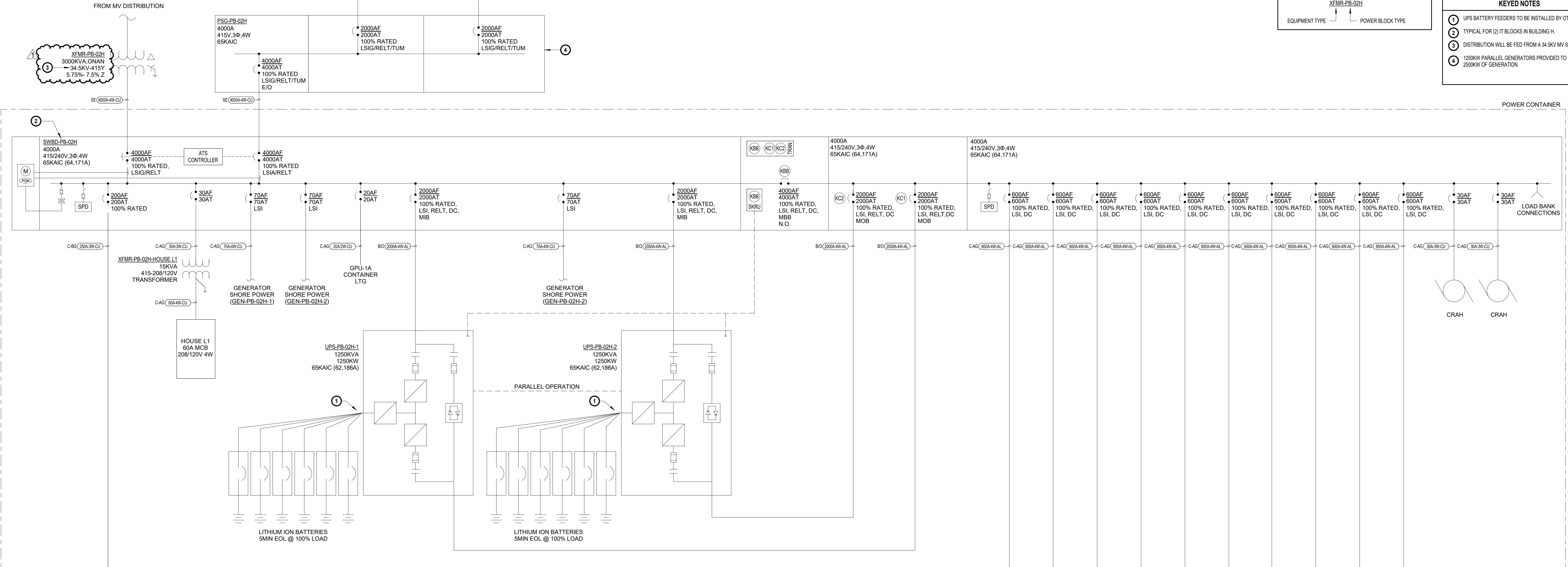
FEEDER NAMING SCHEME	
OPCD SIZE (AMPS)	CONDUCTOR MATERIAL
CAG 400A-30kAL	C-AG
CONDUCTOR CONVEYANCE	CONDUCTOR
WIRE QTY	MATERIAL LEGEND
1	AL ALUMINUM
2	CU COPPER
3	C-BG BELOW-GRADE CONDUIT
4	CB CABLE BUS
5	CT CABLE TRAY
6	B/O FEEDER BY OTHERS (FOR REFERENCE ONLY)
7	VOLTAGE CLASS USAGE LEGEND
[BLANK]	600V LOW-VOLTAGE DISTRIBUTION
MV	34.5KV MEDIUM-VOLTAGE DISTRIBUTION

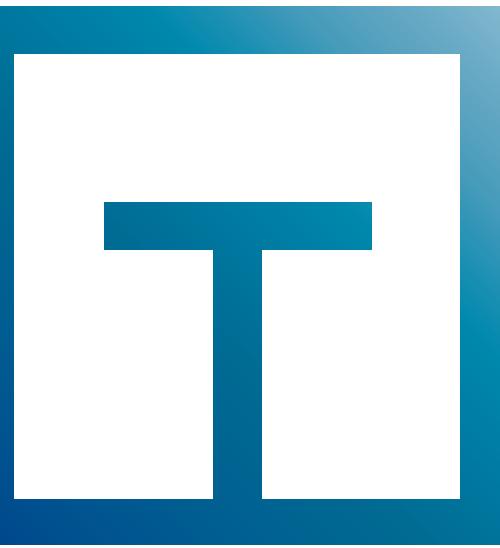
BREAKER FUNCTION ABBREVIATIONS	
COM	BREAKER SUPPLIED WITH COMM MODULE
DC	BREAKER SUPPLIED WITH DRY CONTACTS
IC	100% INSULATED CASE BREAKER
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
LIG	LONG TIME, SHORT TIME, INSTANTANEOUS & GROUND FAULT ALARM ONLY
LSA	LONG TIME, SHORT TIME, INSTANTANEOUS & GROUND FAULT ALARM ONLY
MDGF	MODIFIED DIFFERENTIAL GROUND FAULT
REL	REDUCE ENERGY LET THRU
ST	SURGE TRIP
TUM	TRIP UNIT METERING

UPS BREAKER ABBREVIATIONS	
MIS	MAIN INPUT BREAKER (UPS)
MOP	MAIN OUTPUT BREAKER (UPS)
MBB	MAIN BYPASS BREAKER (UPS)

POWER BLOCK NAMING SCHEME	
ITERATION NUMBER	BUILDING LETTER
XFMR-PB-02H	
EQUIPMENT TYPE	POWER BLOCK TYPE

KEYED NOTES
(1) UPS BATTERY FEEDERS TO BE INSTALLED BY OTHERS.
(2) TYPICAL FOR (2) IT BLOCKS IN BUILDING H.
(3) DISTRIBUTION WILL BE FED FROM A 34.5KV MV SERVICE.
(4) 1250KW PARALLEL GENERATORS PROVIDED TO ACHIEVE 2500KW OF GENERATION.





ISSUES
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8151 JIM CHRISTAL ROAD
DENTON, TX 76207

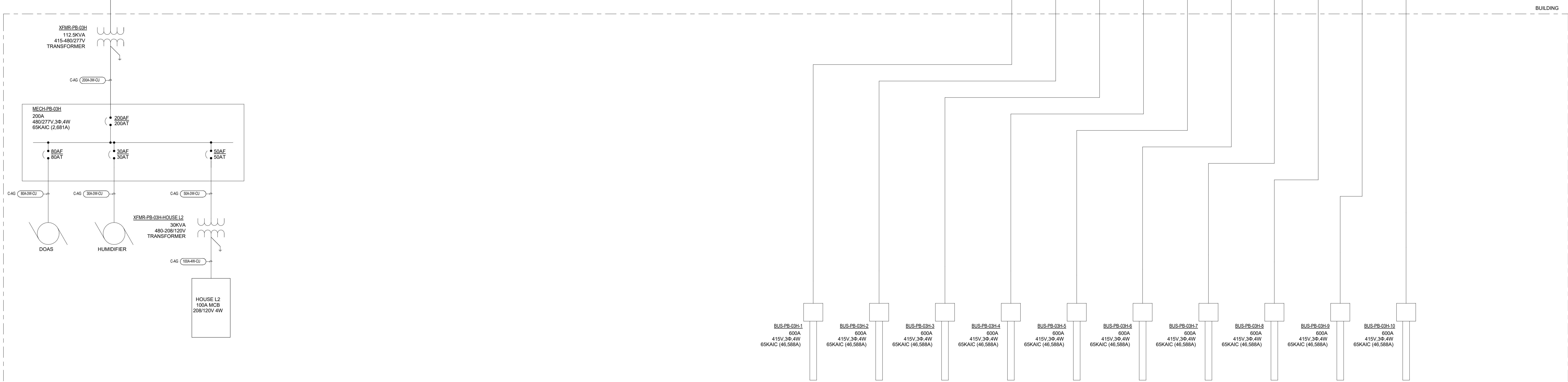
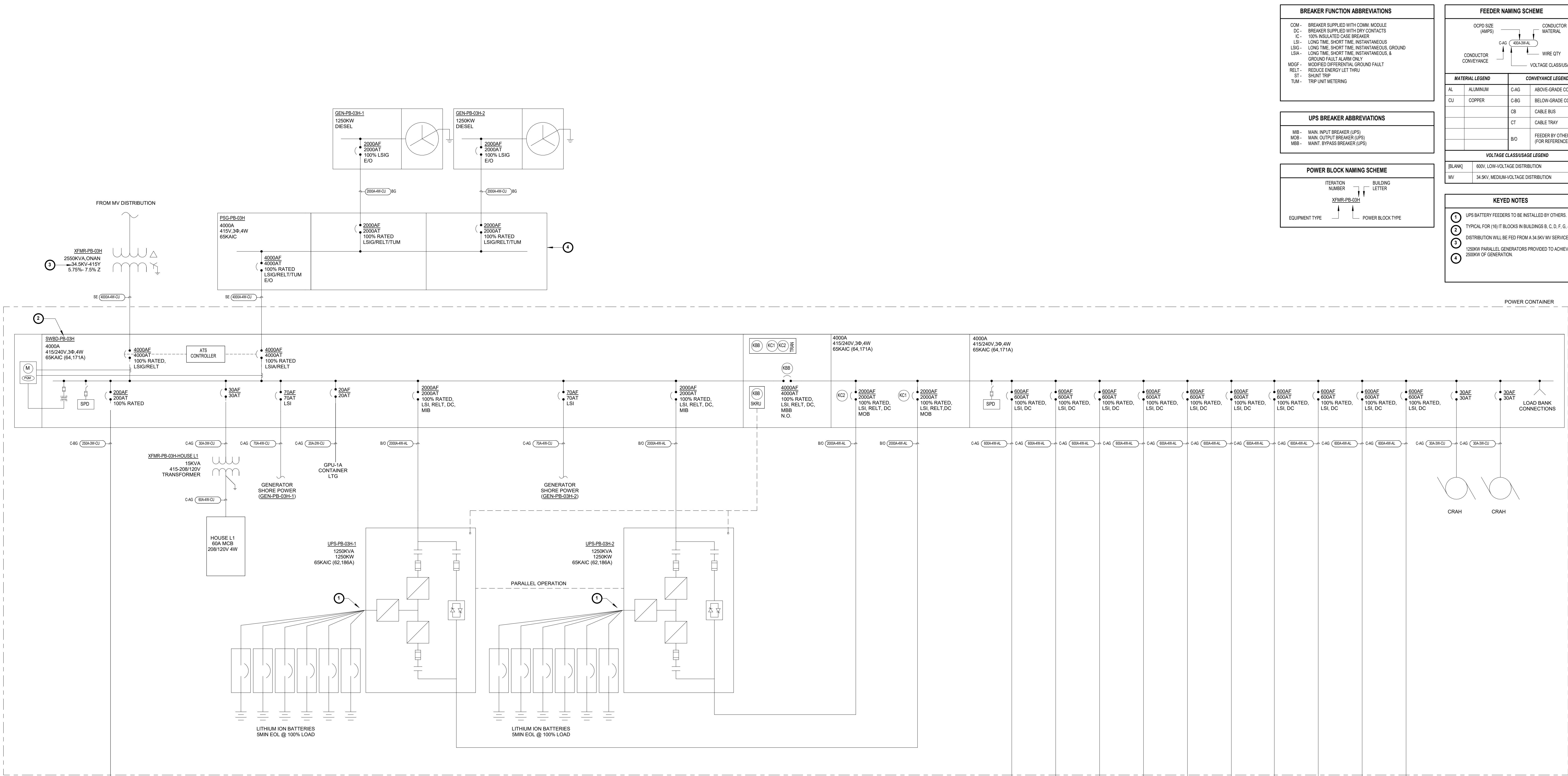
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ELECTRICAL
ONE-LINE -
SWBD-PB-03H

JOB 240129.01
DATE 08.08.2025
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146 Payne Street
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214.744.6199
Texas Registration #F-6494

E07-12H



BREAKER FUNCTION ABBREVIATIONS	
COM	BREAKER SUPPLIED WITH COMM MODULE
DC	100% INSULATED CASE BREAKER
IC	100% INSULATED CASE BREAKER
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
LSG	LONG TIME, SHORT TIME, INSTANTANEOUS & GROUND FAULT
MDGF	MODIFIED DIFFERENTIAL GROUND FAULT
RELT	REDUCE ENERGY LET THRU
ST	SMART TRIP
TUM	TRIP UNIT METERING

FEEDER NAMING SCHEME	
OCPD SIZE (AMPS)	CONDUCTOR MATERIAL
CAB	400A-3W-AL
CONDUCTOR CONVEYANCE	CAB
WIRE QTY	VOLTAGE CLASS/USAGE

UPS BREAKER ABBREVIATIONS	
MB	MAIN INPUT BREAKER (UPS)
MOB	MAIN OUTPUT BREAKER (UPS)
MBB	MAIN BYPASS BREAKER (UPS)

POWER BLOCK NAMING SCHEME	
ITERATION NUMBER	BUILDING LETTER
XFMR-PB-03H	POWER CONTAINER

KEYED NOTES	
1	UPS BATTERY FEEDERS TO BE INSTALLED BY OTHERS
2	TYPICAL FOR (16) IT BLOCKS IN BUILDINGS B, C, D, F, G & H
3	DISTRIBUTION WILL BE FED FROM A 34.5KV MV SERVICE
4	1250kW PARALLEL GENERATORS PROVIDED TO ACHIEVE 2500kW OF GENERATION

VOLTAGE CLASS/USAGE LEGEND

BLANK	600V, LOW-VOLTAGE DISTRIBUTION
MV	34.5kV, MEDIUM-VOLTAGE DISTRIBUTION

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SHANNON K. McCALL
82715
REGISTERED ENGINEER

08.08.2025

CORE SCIENTIFIC
DENTON SOUTH
8151 JIM CHRISTAL ROAD
DENTON, TX 76207

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ELECTRICAL
ONE-LINE -
SWBD-PB-03H

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#82715

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8151 JIM CHRISTAL ROAD
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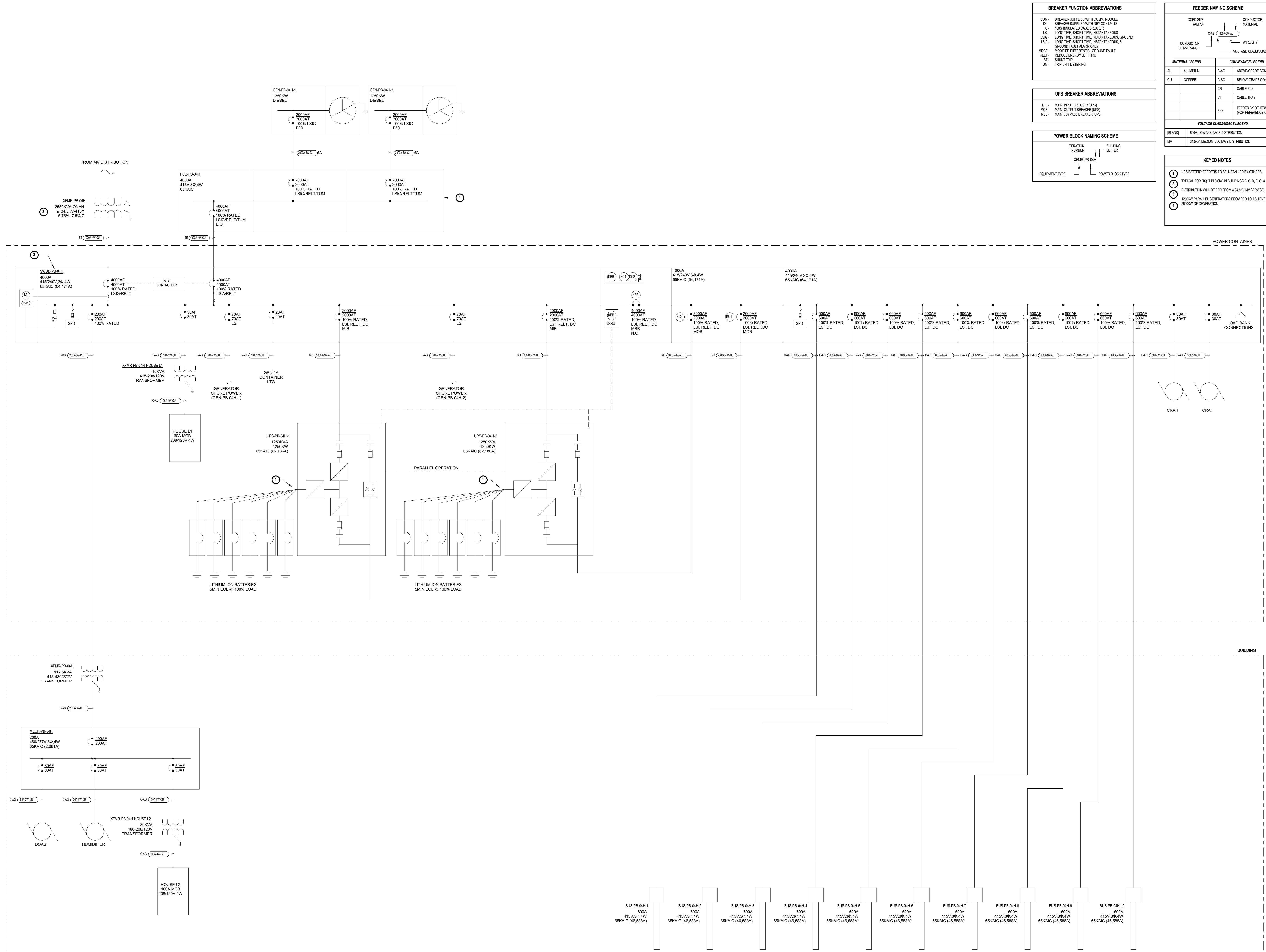
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ONE-LINE -
SWBD-PB-04H

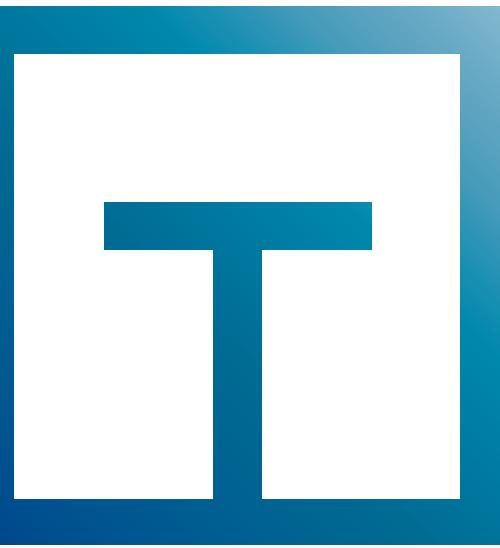
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TELIOS

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ENGINEER

08.08.2025

CORE SCIENTIFIC
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8151 JIM CHRISTAL ROAD
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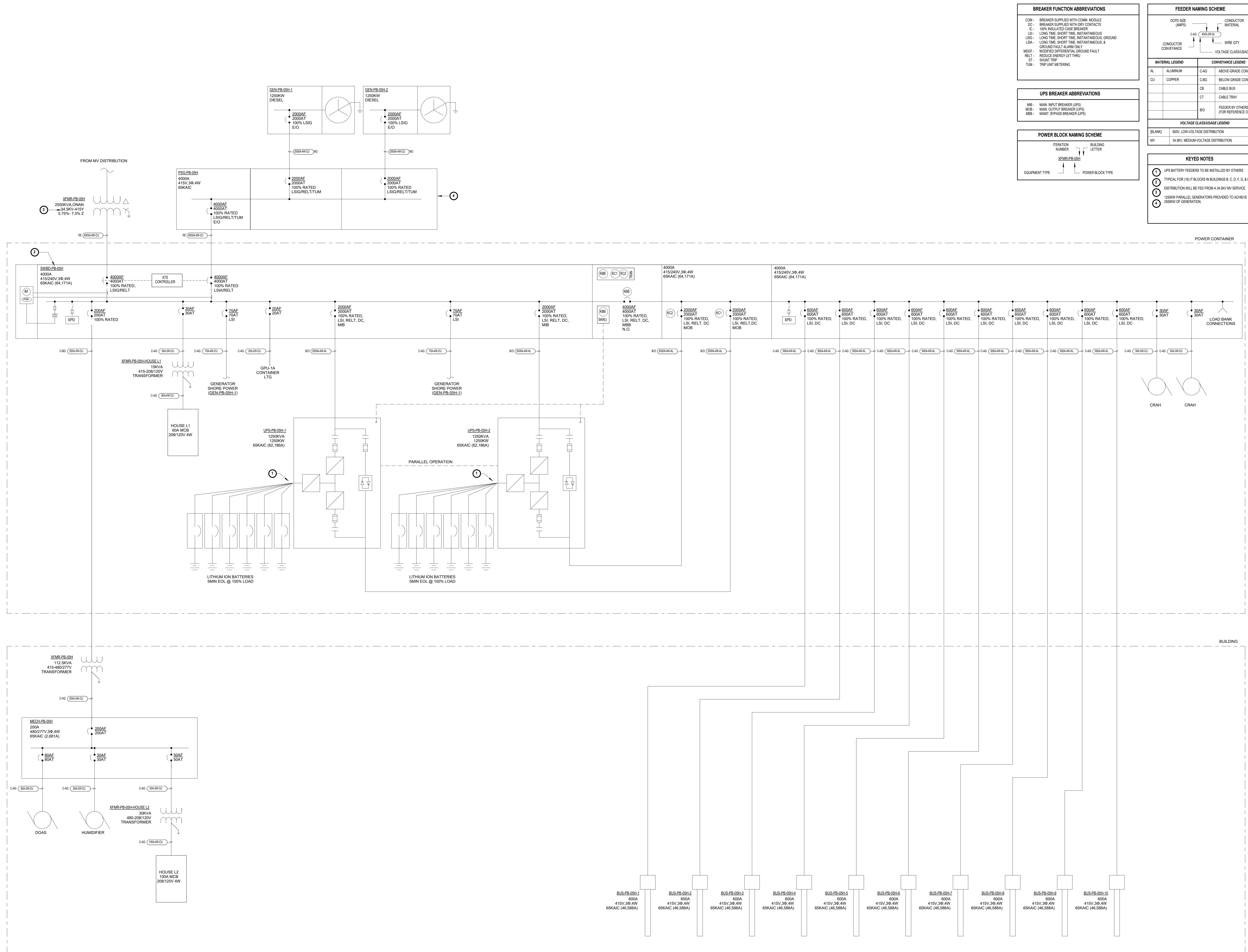
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ELECTRICAL
ONE-LINE -
SWBD-PB-05H

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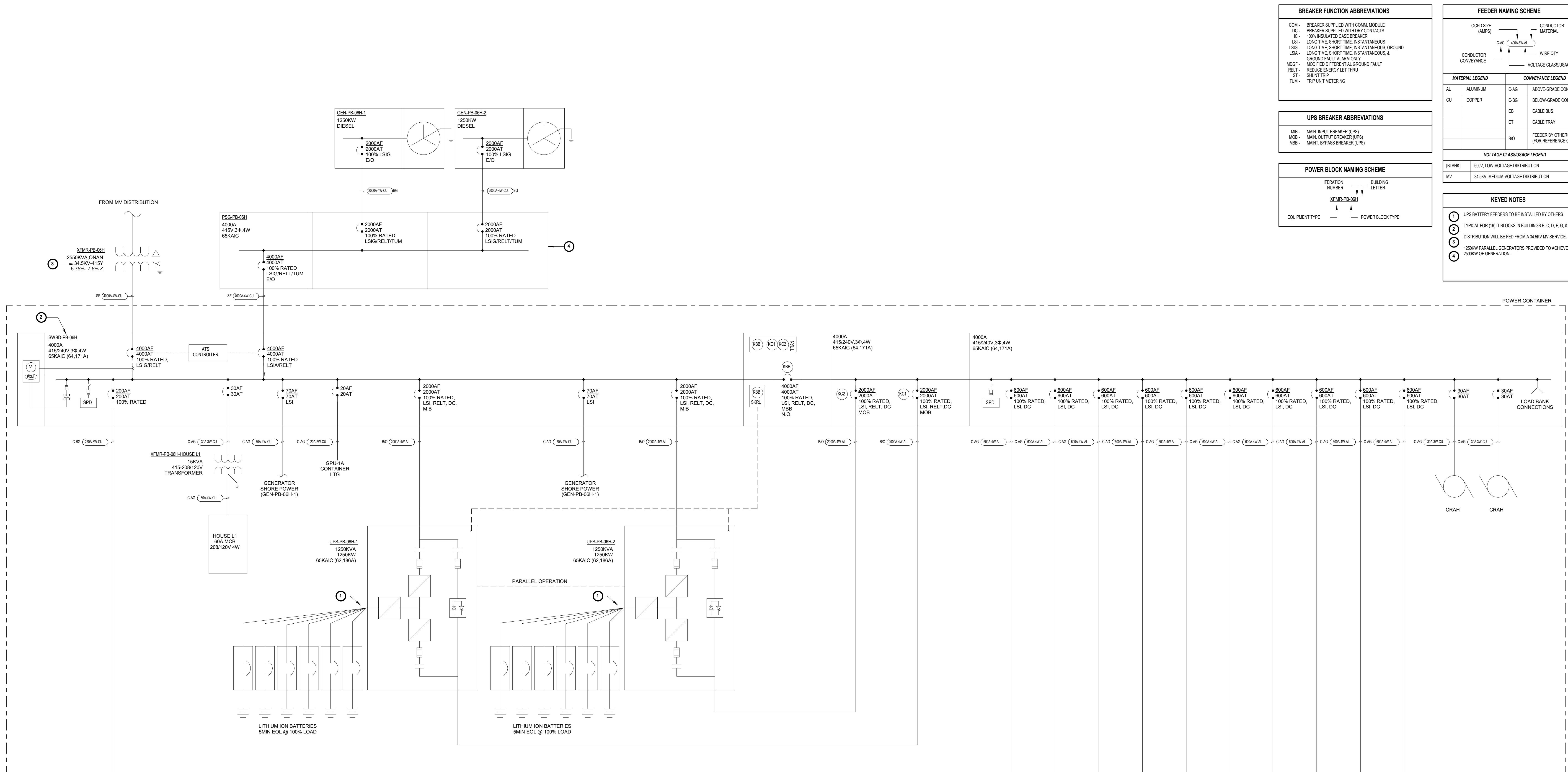
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DENTON, TX 76207



ELECTRICAL ONE-LINE - SWBD-PB-06H

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