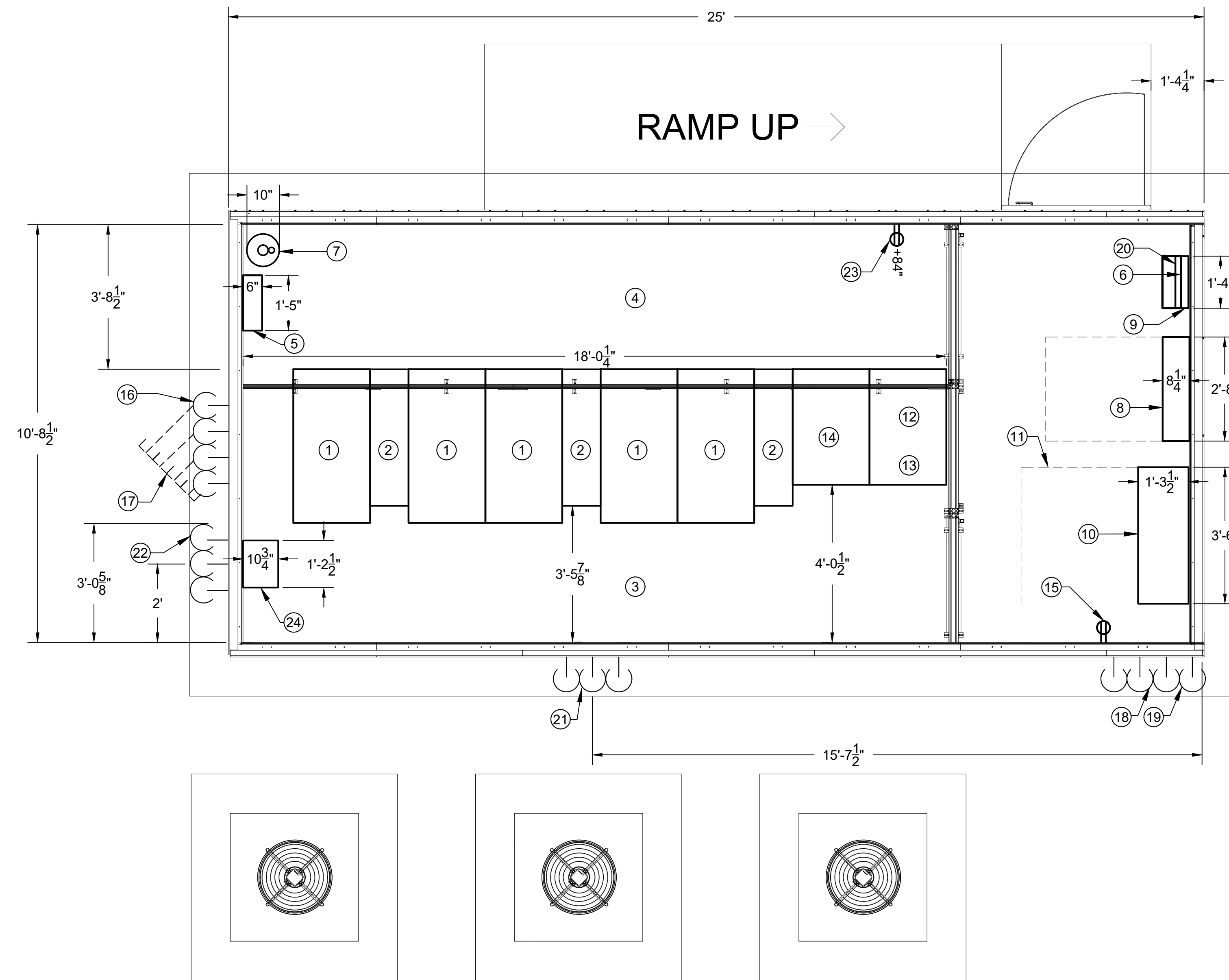


PREFAB CONFIGURATION-3

PREFAB FRAME SIZE (KW)	MAX IT LOAD (KW)	PREFAB MODULE DIMENSIONS (APPROXIMATE)			MDP-100 SYSTEM VOLTAGE LEVEL (V)	UPS SYSTEM MODEL	ATS MODEL	ATS (A)	INROW COOLING UNIT (MODEL)/ CONDENSING UNIT (MODEL)	NO. OF INROW COOLING UNITS	NO. OF CONDENSING UNITS	IT RACK (MODEL)	NO. OF IT RACKS	IT RACK DENSITY (KW/RACK)	NUMBER OF SINGLE PHASE POLES IN MBP	IT RACK DIMENSIONS (APPROXIMATE)			RACK PDU (MODEL)
		DEPTH (FT)	WIDTH (FT)	HEIGHT (FT)												DEPTH (FT)	WIDTH (FT)	HEIGHT (FT)	
40	40	25	11.5	11.5	208	SYMMETRA PX40	ASCO-300	400	ACRD301/ ACCU30001	3	3	AR3300	5	8	42	4	2	6.5	AP8865



GENERAL NOTES:

- REFER TO THE ONE LINE DIAGRAM ON SHEET E400 FOR ADDITIONAL DETAILS ON THE ELECTRICAL SYSTEM.
- FOR ELECTRICAL SCHEDULES, SEE DRAWINGS ON SHEETS E600 AND E601.

PLAN NOTES:

- IT RACK.
- ACRD301 IN-ROW COOLING UNIT.
- HOT AISLE.
- COLD AISLE.
- FIRE ALARM CONTROL PANEL. THE FIRE ALARM SYSTEM INSTALLATION SHALL BE AS PER NFPA 72 REQUIREMENTS.
- GENERATOR ANNUNCIATOR PANEL(OPTIONAL).
- FIRE SUPPRESSION CANISTER.
- 208V MAIN DISTRIBUTION PANEL(MDP-100).
- CP-100 CONTROL PANEL.
- ASCO-300 MODEL(208V) SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH WITH PROGRAMMABLE DELAYED TRANSITION (ATS-MDP-100).
- REQUIRED CLEARANCE (TYPICAL).
- PX40 UPS MODULE.
- PX40 UPS BATTERY CABINET.
- PX40 UPS POWER DISTRIBUTION CABINET.
- 120V RECEPTACLE (TYPICAL).
- PROVIDE FOUR(4) 3" CONDUITS FOR DATA/FIBER OPTICS. CONDUITS SHALL BE CONNECTED PERPENDICULARLY TO MODULE WALL AT 114" ABOVE FINISHED SLAB AT LOCATION SHOWN. TURN VERTICALLY WITH A 36" RADIUS DOWN TO SLAB FOR UNDERGROUND RUN. PROVIDE UNDERGROUND PORTION TO JUST OUTSIDE OF SLAB EDGE AS SHOWN. PROVIDE STRUCTURAL SUPPORT FOR ABOVEGROUND PORTION. CO-ORDINATE HEIGHT OF CONDUITS ABOVE FINISHED SLAB AS REQUIRED.
- RUN UNDERGROUND PORTION DIAGONALLY AT 45 DEGREES TO THE LEFT, AS SHOWN, TO EXTEND 48" BEYOND THE EDGE OF THE PAD TO BE CONTINUED BY OTHERS. CAP CONDUIT ENDS AT THIS POINT.
- PROVIDE TWO(2) 3" CONCRETE ENCASED UNDERGROUND PVC SCH-80 CONDUITS FOR POWER FROM UTILITY.
- PROVIDE TWO(2) 3" AND TWO(2)3/4" CONCRETE ENCASED UNDERGROUND PVC SCH-80 CONDUITS FOR POWER AND CONTROLS FROM GENERATOR.
- ACCESS CONTROL PANEL(OPTIONAL).
- CONDUITS AND PIPES FOR COOLING CONNECTIONS. CONDUITS AND PIPES SHALL BE CONNECTED PERPENDICULARLY TO MODULE WALL AT 114" ABOVE FINISHED SLAB AT LOCATION SHOWN. CO-ORDINATE HEIGHT OF CONDUITS ABOVE FINISHED SLAB AS REQUIRED.
- PIPES FOR HUMIDIFICATION AND DEHUMIDIFICATION. PIPES SHALL BE CONNECTED PERPENDICULARLY TO MODULE WALL AT 7-1/2" ABOVE FINISHED SLAB AT LOCATION SHOWN.
- 120V DEDICATED RECEPTACLE FOR DE-HUMIDIFIER. CO-ORDINATE HEIGHT AND LOCATION AS NECESSARY.
- HUMIDIFIER(OPTIONAL).

ELECTRICAL PREFAB MODULE DETAILS CONFIGURATION-3

SCALE: 1/2" = 1'-0"

CONSULTANTS:



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PROJECT INFORMATION:

40KW DATA CENTER
REFERENCE DESIGN
PREFAB CONFIGURATION-3

KEYPLAN:

REV.	DATE	DESCRIPTION
0	05/2/2019	CONCEPTUAL DRAWINGS

DRAWN BY: GR

CHECKED BY: MN

PROJECT NUMBER: DMP-XXXXXX

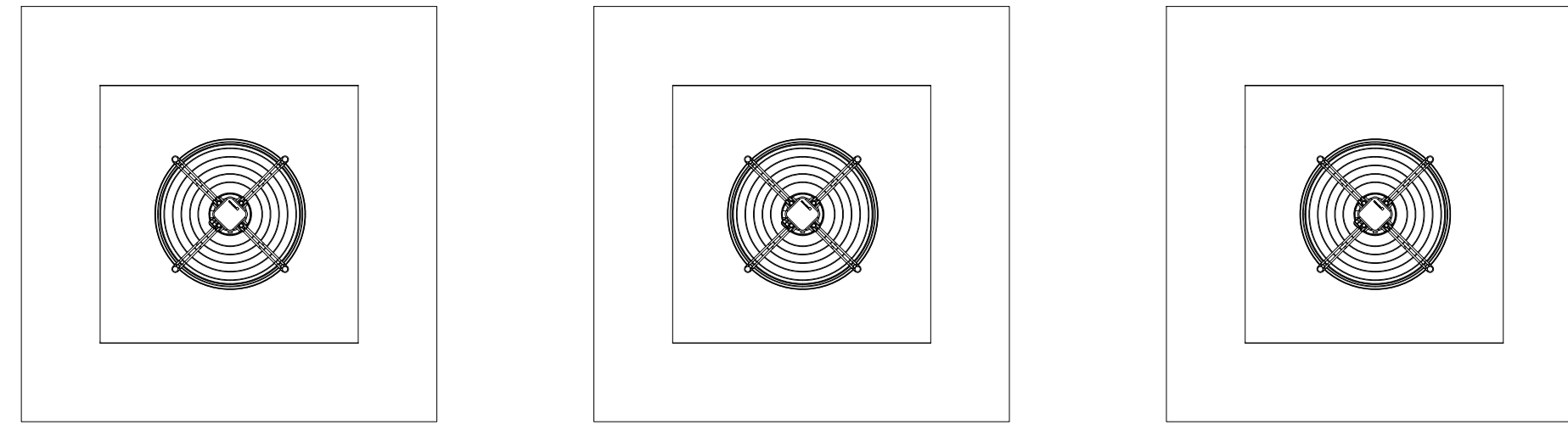
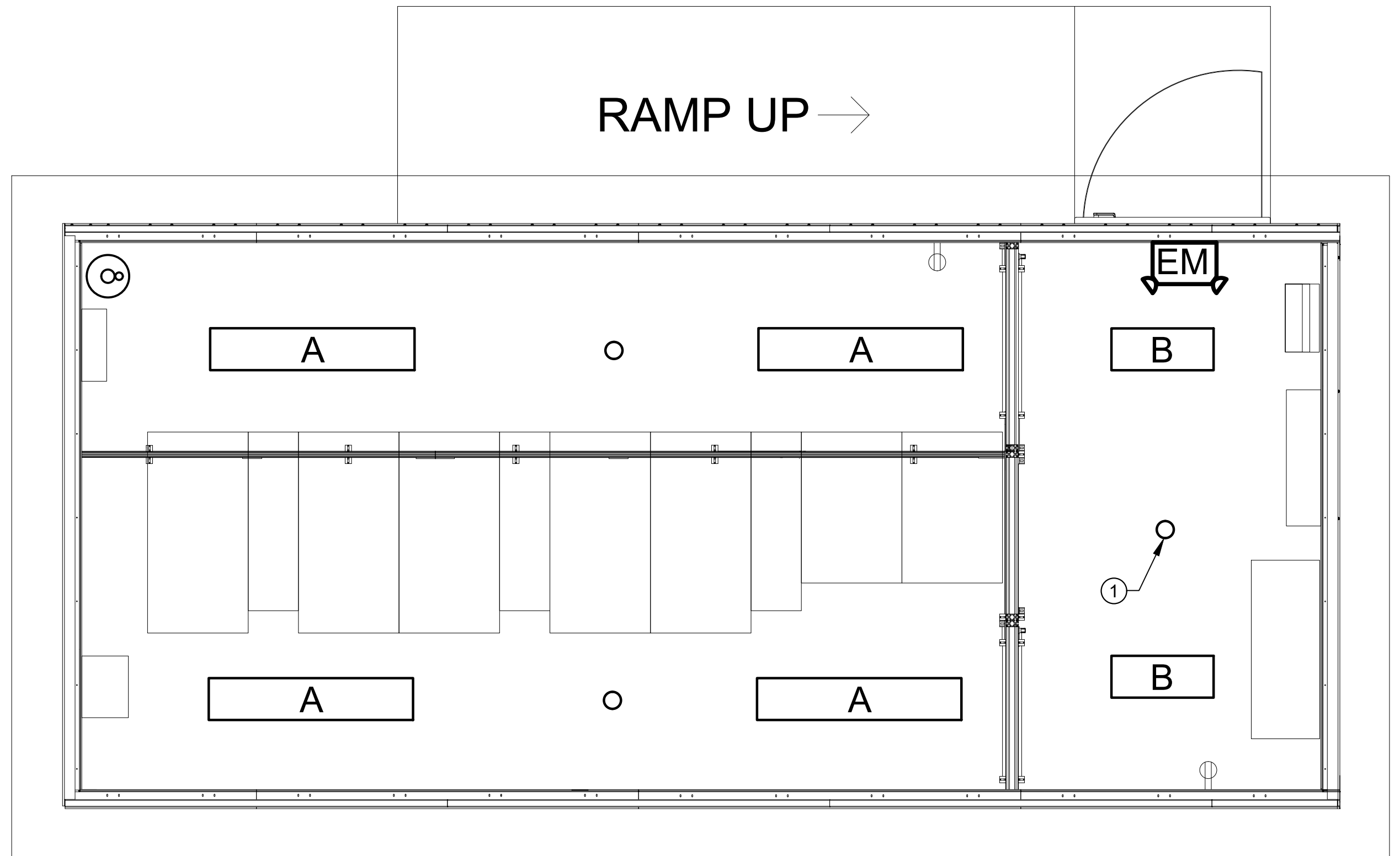
DRAWING SCALE: NONE

SHEET TITLE:
**ELECTRICAL
PREFAB MODULE DETAILS
CONFIGURATION-3**

DATE: 05/2/2019

DRAWING NUMBER:

E102



LIGHTING FIXTURE SCHEDULE								
TYPE		MANUFACTURER PRODUCT #	VOLTAGE	WATTAGE	LAMP	NUMBER OF FIXTURES	MOUNTING	REMARKS
A	LED 4FT VAPORTIGHT	LITHONIA LIGHTING	120V	38W	LED	4	SURFACE	4' LED VAPOR TIGHT FIXTURE DIMMABLE
		4VT2-LD4-4-DR-UNVL840-CD1-WL-U						
B	LED 2FT VAPORTIGHT	LITHONIA LIGHTING	120V	28.4W	LED	2	SURFACE	2' LED VAPOR TIGHT FIXTURE DIMMABLE
		2VT2-LD4-3-DR-UNVL840-CD1-WL-U						
EM	LED COMBO EXIT/EMERGENCY LIGHTS	LITHONIA LIGHTING	120V	4.3W	LED	1	SURFACE	THERMOPLASTIC WHITE (2) HEAD, BATTERY BACKED EMERGENCY LIGHT
		LHQM LED R HO M6						

GENERAL NOTES:

- REFER TO ONE LINE DIAGRAM ON SHEET E400 FOR ADDITIONAL DETAILS ON THE ELECTRICAL SYSTEM.
- FOR ELECTRICAL SCHEDULES, SEE DRAWINGS ON SHEETS E600 AND E601.

PLAN NOTES:

- OCCUPANCY SENSOR(TYP.) MODEL DT-305 OR CX-100-3 OR SIMILAR.

**ELECTRICAL LIGHTING PLAN
CONFIGURATION-3**
SCALE: 1/2" = 1'-0"



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PROJECT INFORMATION:

**40KW DATA CENTER
REFERENCE DESIGN
PREFAB CONFIGURATION-3**

KEYPLAN:

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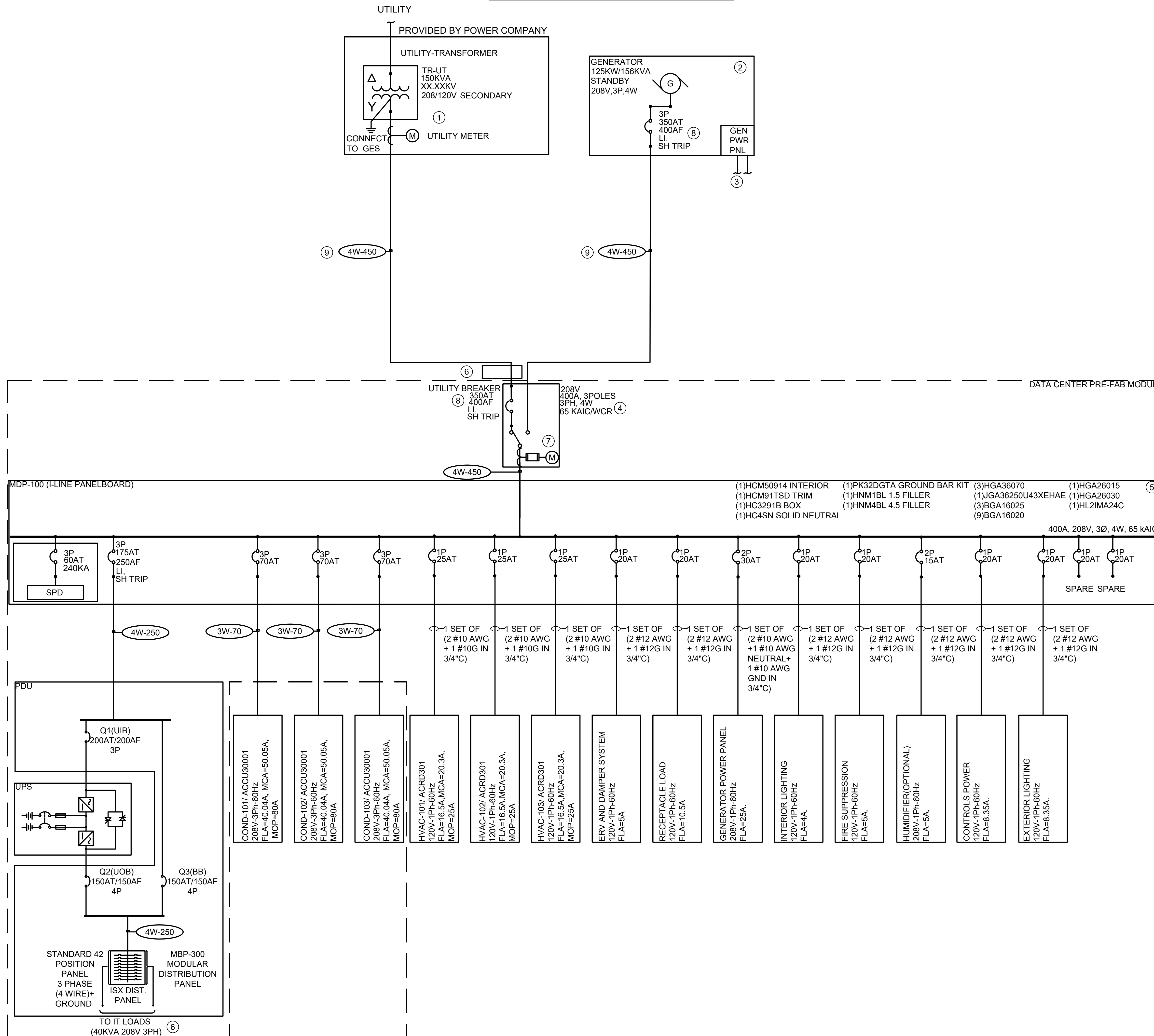
DRAWING SCALE: NONE

SHEET TITLE:
**ELECTRICAL
LIGHTING PLAN
CONFIGURATION-3**

DATE: 05/2/2019

DRAWING NUMBER:
E104

ELECTRICAL ONE LINE DIAGRAM:



GENERAL NOTES:

- SEE DRAWING E001 FOR ABBREVIATIONS AND SYMBOLS.
- SEE DRAWING E002 AND E003 FOR ELECTRICAL SPECIFICATIONS.
- SEE DRAWING E600 AND E601 FOR ELECTRICAL SCHEDULES.

CONTROLS NOTES:

- SUPPLY OF CONTROL PANELS ALONG WITH THEIR INTEGRATION SERVICES WITH THE DATA CENTER SYSTEM SHALL BE PROVIDED BY SCHNEIDER EPMS DIVISION.
- PROVIDE A SEPARATE CONDUIT FOR CONNECTING THE SPD WITH POWER QUALITY METER(IF PROVIDED) FOR SPD FAILURE MONITORING.
- PROVIDE A 1KVA 208V/120V CPT FOR PROVIDING 120V CONTROL POWER TO CONTROL EQUIPMENT ON 120V AC SUPPLY.
- PROVIDE A 120V AC TO 24V DC POWER SUPPLY FOR 24V DC CONTROL POWER REQUIREMENTS.
- THE CIRCUIT BREAKER INSIDE THE GENERATOR ENCLOSURE SHALL BE EQUIPPED WITH A 24V DC SHUNT TRIP UNIT. SHUNT TRIPS ARE TO BE WIRED TO EPO PANEL.
- PROVIDE AN ETHERNET SWITCH WITH SUFFICIENT PORTS FOR CONNECTING THE POWER QUALITY METER(IF PROVIDED), UPS SYSTEM COMPONENTS AND ALL OTHER COMPONENTS THAT REQUIRE REMOTE MONITORING AND CONFIGURATION.

PLAN NOTES:

- UTILITY METER (PROVIDED BY POWER COMPANY).
- 125KW/156KVA STANDBY GENERATOR.
- RUN TWO PHASE WIRES, A NEUTRAL WIRE AND A GROUND WIRE IN A 3/4" CONDUIT FROM MDP-100 PANEL TO GENERATOR POWER PANEL. REFER TO PANEL SCHEDULE ON DRAWING E-600 FOR DETAILS.
- ASCO-300 MODEL(208V) SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH WITH PROGRAMMABLE DELAYED TRANSITION.
- 400AMP I-LINE PANELBOARD.
- OPTIONAL 400A SERVICE ENTRANCE RATED DISCONNECT SWITCH (PROVIDED BY OTHERS).
- ASCO 5210 POWER METER(OPTIONAL).
- CIRCUIT BREAKER WILL BE EQUIPPED WITH A MICROLOGIC 5.3E LI (OR LSI) ELECTRONIC TRIP UNIT AND A SHUNT TRIP UNIT. SHUNT TRIPS ARE TO BE WIRED TO EPO PANEL.
- CONDUCTORS FROM UTILITY AND GENERATOR SHOWN AS PER WIRE SCHEDULE SHALL BE RUN IN 3" PVC SCH-80 CONDUITS.



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PROJECT INFORMATION:
40KW DATA CENTER REFERENCE DESIGN PREFAB CONFIGURATION-3

KEYPLAN:

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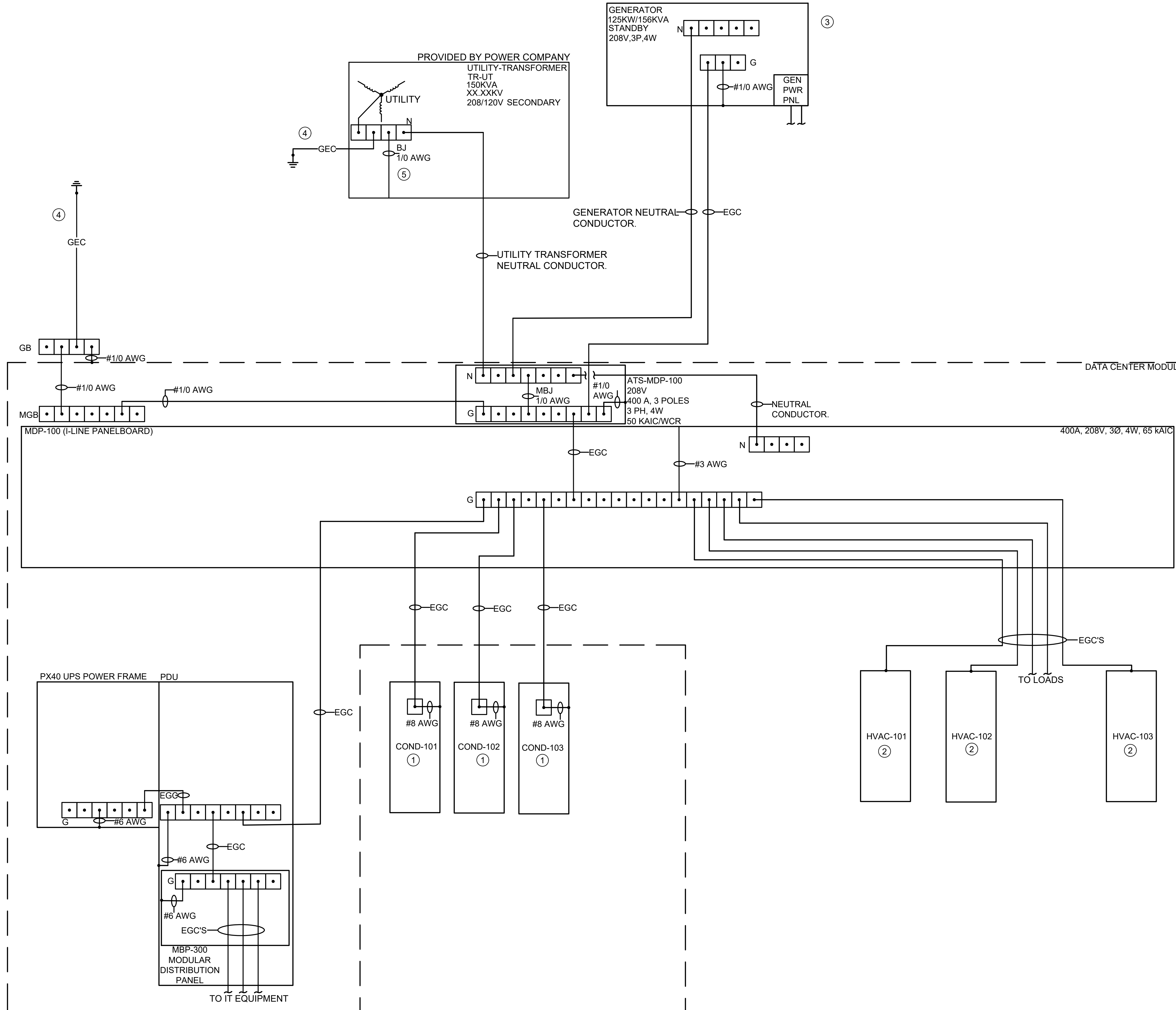
DRAWING SCALE: NONE

SHEET TITLE:
ELECTRICAL ONE LINE DIAGRAM CONFIGURATION-3

DATE: 05/2/2019

DRAWING NUMBER:
E400

ELECTRICAL GROUNDING DIAGRAM:



GENERAL NOTES:

- SEE DRAWING E001 FOR ABBREVIATIONS AND SYMBOLS.
- SEE DRAWING E002 AND E003 FOR ELECTRICAL SPECIFICATIONS.
- SEE DRAWING E400 FOR ELECTRICAL ONE LINE DIAGRAM.
- SEE DRAWING E500 FOR ELECTRICAL DETAILS.
- SEE DRAWING E600 AND E601 FOR ELECTRICAL SCHEDULES.
- ALL GROUNDING CONNECTIONS AND BONDINGS SHALL BE BY ARTICLE 250 OF NFPA 70. EGC SIZING IS NORMALLY RUN WITH CIRCUIT CONDUCTORS. SEE DRAWING E400 ONE LINE DIAGRAM AND E600 ELECTRICAL SCHEDULES FOR EGC SIZING DETAILS.
- REFER TO ELECTRICAL GROUNDING AND LIGHTNING PROTECTION DRAWING ON SHEET E103 FOR ADDITIONAL DETAILS.

PLAN NOTES:

- ① CONDENSING UNIT(TYP.).
- ② INROW COOLING UNIT(TYP.).
- ③ GENERATOR GROUNDING SYSTEM IS BASED ON A NON-SEPERATELY DERIVED SYSTEM.
- ④ SEE DRAWING E103 GROUNDING AND LIGHTNING PROTECTION FOR DETAILS.
- ⑤ BONDING JUMPER(PROVIDED BY OTHERS) TO BE INSTALLED AS REQUIRED. ALL GROUNDING CONNECTIONS AND BONDINGS SHALL BE AS PER ARTICLE 250 AND 450 OF NFPA 70 AND SHALL MEET ALL STATE AND LOCAL CODE REQUIREMENTS.

LEGEND:

- EGC — EQUIPMENT GROUNDING CONDUCTOR NORMALLY RUN IN RACEWAYS WITH CIRCUIT CONDUCTORS. SIZE PER NEC.
- GEC — GROUNDING ELECTRODE CONDUCTOR.
- BJ — BONDING JUMPER. SIZE PER NEC.
- MBJ — MAIN BONDING JUMPER.
- SBJ — SYSTEM BONDING JUMPER.
- MGB — MAIN GROUNDING BAR.
- N — NEUTRAL BAR.
- G — GROUND BAR.



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KEYPLAN:

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PROJECT NUMBER: DMP-XXXXXX

DRAWING SCALE: NONE

SHEET TITLE:
ELECTRICAL GROUNDING DIAGRAM CONFIGURATION-3

DATE: 05/2/2019

DRAWING NUMBER:

E401

DISTRIBUTION PANELBOARD 'MDP-100' SCHEDULE																	
VOLTAGE	PH	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	LOCATION	PANEL CATALOG NUMBER :									
120 / 208	3	4		400	65000	SURFACE	MODULE										
CKT #	ITEM SERVED	CIRCUIT TRIP	BRKR P	WIRE SIZE	COND. SIZE	LOAD (KVA)	PHASE			LOAD (KVA)	COND. SIZE	WIRE SIZE	CIRCUIT BRKR		ITEM SERVED	CKT #	
							A	B	C				P	TRIP			
1	UPS	175	3	250	2-1/2"	41.00	19.68	19.68	19.68	18.04	1"	4	3	70	COND-101	2	
3																4	
5																6	
7	COND-102	70	3	4	1"	18.04	6.01	6.01	6.01	0.00	1"	4	3	70	COND-103(REDUNDANT)	8	
9																10	
11																12	
13	SPACE						0.00								SPACE	14	
15																16	
17																18	
19	ERV & DAMPER SYSTEM	20	1	12	3/4"	0.60	1.20			0.60	3/4"	12	1	20	FIRE SUPPRESSION	20	
21	RECEPTACLES	20	1	12	3/4"	1.26		2.01		0.75	3/4"	12	1	20	DEDICATED RECEPTACLE	22	
23	GENERATOR POWER PANEL	30	2	10	3/4"	5.00		3.50		1.00	3/4"	12	1	20	CONTROLS POWER	24	
25										1.00	3/4"	12	1	20	EXTERIOR LIGHTING	26	
27	INTERIOR LIGHTING	20	1	12	3/4"	0.50		1.05		1.10	3/4"	12	2	15	HUMIDIFIER(OPTIONAL)	28	
29	HVAC-101	25	1	10	3/4"	2.44		2.99		2.44	3/4"	10	1	25	HVAC-103(REDUNDANT)	30	
31	HVAC-102	25	1	10	3/4"	2.44				0.00	3/4"	10	1	25		32	
33										0.00			1	20	SPARE	34	
35	SPACE									0.00			1	20	SPACE	36	
37										0.00			1	20	SPACE	38	
39										0.00			1	20	SPACE	40	
41	SPD BREAKER	60	3	6	3/4"	0.00		0.00							SPACE	42	
43															SPACE	44	
							30.39	28.75	34.62								

LOAD TYPE	LOAD (KVA)	SUBLOADS (KVA)										TOTAL (KVA)	DEM FAC	DEM LD	NOTES			
		PNL	PNL	PNL	PNL	PNL	PNL	PNL	PNL	PNL	PNL	PNL	PNL					
UPS	41.00	-	-	-	-	-	-	-	-	-	-	-	-	41.00	1.00	41.00		
COND-101	18.04	-	-	-	-	-	-	-	-	-	-	-	-	18.04	1.00	18.04		
COND-102	18.04	-	-	-	-	-	-	-	-	-	-	-	-	18.04	1.00	18.04		
COND-103(REDUNDANT)	0.00	-	-	-	-	-	-	-	-	-	-	-	-	0.00	1.00	0.00		
ERV AND DAMPER SYSTEM	0.60	-	-	-	-	-	-	-	-	-	-	-	-	0.60	1.00	0.60		
FIRE SUPPRESSION	0.60	-	-	-	-	-	-	-	-	-	-	-	-	0.60	1.00	0.60		
RECEPTACLES	1.26	-	-	-	-	-	-	-	-	-	-	-	-	1.26	1.00	1.26		
HUMIDIFIER(OPTIONAL)	1.10	-	-	-	-	-	-	-	-	-	-	-	-	1.10	1.00	1.10		
GENERATOR POWER PANEL	5.00	-	-	-	-	-	-	-	-	-	-	-	-	5.00	1.00	5.00		
CONTROLS POWER	1.00	-	-	-	-	-	-	-	-	-	-	-	-	1.00	1.00	1.00		
INTERIOR LIGHTING	0.50	-	-	-	-	-	-	-	-	-	-	-	-	0.50	1.00	0.50		
EXTERIOR LIGHTING	1.00	-	-	-	-	-	-	-	-	-	-	-	-	1.00	1.00	1.00		
HVAC-101	2.44	-	-	-	-	-	-	-	-	-	-	-	-	2.44	1.00	2.44		
HVAC-102	2.44	-	-	-	-	-	-	-	-	-	-	-	-	2.44	1.00	2.44		
HVAC-103(REDUNDANT)	0.00	-	-	-	-	-	-	-	-	-	-	-	-	0.00	1.00	0.00		
DEDICATED RECEPTACLE	0.75	-	-	-	-	-	-	-	-	-	-	-	-	0.75	1.00	0.75		
														93.77		93.77	TOTAL KVA	
25 % OF Largest Motor Load	4.51	-	-	-	-	-	-	-	-	-	-	-	-	4.51	1.00	4.51		
25 % OF UPS Continuous Load plus Battery Charging	18.55	-	-	-	-	-	-	-	-	-	-	-	-	18.55	1.00	18.55		
25 % OF Other Continuous Loads	2.03	-	-	-	-	-	-	-	-	-	-	-	-	2.03	1.00	2.03		
																118.86	SUM TOTAL KVA(125% CONTINUOUS LOAD+ 100% NON CONTINUOUS LOAD+100% MOTOR LOADS+ 25% LARGEST MOTOR LOAD)	
																	329.91	TOTAL AMPS

NOTES:
DEMAND FACTOR IN ACCORANCE WITH NEC.

3-WIRE FEEDER SIZING SCHEDULE

SYMBOL	# OF SETS	CONDUCTORS (COPPER)	GND.	CONDUIT
3W-15	1	3 #12	#12	3/4"
3W-20	1	3 #12	#12	3/4"
3W-25	1	3 #10	#12	3/4"
3W-30	1	3 #10	#10	3/4"
3W-35	1	3 #8	#10	3/4"
3W-40	1	3 #8	#10	3/4"
3W-45	1	3 #8	#10	3/4"
3W-50	1	3 #8	#10	3/4"
3W-60	1	3 #6	#10	3/4"
3W-70	1	3 #4	#8	1"
3W-80	1	3 #4	#8	1"
3W-90	1	3 #3	#8	1-1/4"
3W-100	1	3 #3	#8	1-1/4"
3W-110	1	3 #2	#6	1-1/4"
3W-125	1	3 #1	#6	1-1/4"
3W-150	1	3 1/0	#6	1-1/2"
3W-175	1	3 2/0	#6	2"
3W-200	1	3 3/0	#6	2"
3W-225	1	3 4/0	#4	2"
3W-250	1	3 250 MCM	#4	2-1/2"
3W-300	1	3 350 MCM	#4	2-1/2"
3W-350	1	3 500 MCM	#3	3"
3W-400	2	3 3/0	#3	2"
3W-450	2	3 4/0	#2	2"
3W-500	2	3 250 MCM	#2	2-1/2"
3W-600	2	3 350 MCM	#1	2-1/2"
3W-700	2	3 500 MCM	1/0	3"
3W-800	3	3 300 MCM	1/0	2-1/2"
3W-1000	3	3 400 MCM	2/0	2-1/2"
3W-1200	4	3 350 MCM	3/0	2-1/2"
3W-1600	5	3 400 MCM	4/0	2-1/2"
3W-2000	6	3 400 MCM	250 MCM	2-1/2"
3W-2500	7	3 500 MCM	350 MCM	3"
3W-3000	8	3 500 MCM	400 MCM	3"
3W-4000	11	3 500 MCM	500 MCM	3"
3W-5000	11	3 700 MCM	700 MCM	3-1/2"
3W-6000	13	3 750 MCM	800 MCM	3-1/2"

+ WHERE THE FEEDER SYMBOL IS SHOWN WITH A SUBSCRIPT 'IG', THE FEEDER SHALL BE PROVIDED WITH A SEPERATE ISOLATED GROUND CONDUCTOR SIZED TO MATCH THE EQUIPMENT GROUND.

-CONDUCTOR SIZING BASED ON NEC TABLE 310.15(B)(16) FOR COPPER CONDUCTORS RATED AT 75°C.

-EQUIPMENT GROUNDING CONDUCTOR SIZING BASED ON NEC TABLE 250.122 FOR COPPER CONDUCTORS.

-CONDUIT SIZING BASED ON NEC TABLE C.1 FOR TYPE THHN, THWN, THWN-2 CONDUCTORS IN ELECTRICAL METALLIC TUBING.

4-WIRE FEEDER SIZING SCHEDULE

SYMBOL	# OF SETS	CONDUCTORS (COPPER)	GND.	CONDUIT
4W-15	1	4 #12	#12	3/4"
4W-20	1	4 #12	#12	3/4"
4W-25	1	4 #10	#12	3/4"
4W-30	1	4 #10	#10	3/4"
4W-35	1	4 #8	#10	3/4"
4W-40	1	4 #8	#10	3/4"
4W-45	1	4 #8	#10	3/4"
4W-50	1	4 #8	#10	3/4"
4W-60	1	4 #6	#10	1"
4W-70	1	4 #4	#8	1-1/4"
4W-80	1	4 #4	#8	1-1/4"
4W-90	1	4 #3	#8	1-1/4"
4W-100	1	4 #3	#8	1-1/4"
4W-110	1	4 #2	#6	1-1/4"
4W-125	1	4 #1	#6	1-1/2"
4W-150	1	4 1/0	#6	2"
4W-175	1	4 2/0	#6	2"
4W-200	1	4 3/0	#6	2"
4W-225	1	4 4/0	#4	2-1/2"
4W-250	1	4 250 MCM	#4	2-1/2"
4W-300	1	4 350 MCM	#4	3"
4W-350	1	4 500 MCM	#3	3"
4W-400	2	4 3/0	#3	2"
4W-450	2	4 4/0	#2	2-1/2"
4W-500	2	4 250 MCM	#2	2-1/2"
4W-600	2	4 350 MCM	#1	3"
4W-700	2	4 500 MCM	1/0	3"
4W-800	3	4 300 MCM	1/0	2-1/2"
4W-1000	3	4 400 MCM	2/0	3"
4W-1200	4	4 350 MCM	3/0	3"
4W-1600	5	4 400 MCM	4/0	3"
4W-2000	6	4 400 MCM	250 MCM	3"
4W-2500	7	4 500 MCM	350 MCM	3"
4W-3000	8	4 500 MCM	400 MCM	3"
4W-4000	11	4 500 MCM	500 MCM	3"
4W-5000	11	4 700 MCM	700 MCM	4"
4W-6000	13	4 750 MCM	800 MCM	4"

+ WHERE THE FEEDER SYMBOL IS SHOWN WITH A SUBSCRIPT 'IG', THE FEEDER SHALL BE PROVIDED WITH A SEPERATE ISOLATED GROUND CONDUCTOR SIZED TO MATCH THE EQUIPMENT GROUND.

-CONDUCTOR SIZING BASED ON NEC TABLE 310.15(B)(16) FOR COPPER CONDUCTORS RATED AT 75°C.

-EQUIPMENT GROUNDING CONDUCTOR SIZING BASED ON NEC TABLE 250.122 FOR COPPER CONDUCTORS.

-CONDUIT SIZING BASED ON NEC TABLE C.1 FOR TYPE THHN, THWN, THWN-2 CONDUCTORS IN ELECTRICAL METALLIC TUBING.



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PROJECT INFORMATION:
40KW DATA CENTER REFERENCE DESIGN PREFAB CONFIGURATION-3

KEYPLAN:

REV.	DATE	DESCRIPTION
0	05/2/2019	CONCEPTUAL DRAWINGS

DRAWN BY: GR

CHECKED BY: MN

PROJECT NUMBER: DMP-XXXXXX

DRAWING SCALE: NONE

SHEET TITLE:
ELECTRICAL SCHEDULES CONFIGURATION-3

DATE: 05/2/2019

DRAWING NUMBER:
E600

SYSTEM LOAD CALCULATION		
ITEM	LOAD	UNIT
CRITICAL LOAD	41.000	KVA
HVAC 101	2.440	KVA
COND 101	18.030	KVA
HVAC 102	2.440	KVA
COND 102	18.030	KVA
HVAC 103(REDUNDANT)	0.000	KVA
COND 103(REDUNDANT)	0.000	KVA
ERV & DAMPER SYSTEM	0.600	KVA
FIRE SUPPRESSION	0.600	KVA
RECEPTACLES	1.260	KVA
HUMIDIFIER(OPTIONAL)	0.600	KVA
DEDICATED RECEPTACLE (DEHUMIDIFIER)	0.750	KVA
GENERATOR POWER PANEL	5.000	KVA
CONTROLS POWER	1.000	KVA
INTERIOR LIGHTING	0.5	KVA
LOBBY VENTILATION	0.12	KVA
EXTERIOR LIGHTING	1	KVA
TOTAL KVA	93.370	KVA

DISTRIBUTION PANELBOARD 'MBP-300' SCHEDULE																		
VOLTAGE		PH	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	LOCATION	PANEL CATALOG NUMBER									
120/ 208		3	4		225	65,000	SURFACE	MODULE										
CKT #	ITEM SERVED	CKT. TRIP	BRK P	WIRE SIZE	COND. SIZE	LOAD (KVA)	PHASE			LOAD (KVA)	COND. SIZE	WIRE SIZE	CKT. P	BRK TRIP	ITEM SERVED	CKT #		
							A	B	C									
1	RACK#1	30	3	10		8.00	5.33			8.00		10	3	30	RACK#4	2		
3								5.33									4	
5									5.33									6
7	RACK#2	30	3	10		8.00	5.33			8.00		10	3	30	RACK#5	8		
9								5.33									10	
11									5.33									12
13	RACK#3	30	3	10		8.00	2.67								SPACE	14		
15								2.67									16	
17									2.67									18
19	SPACE						0.00								SPACE	20		
21								0.00									22	
23									0.00									24
25	SPACE						0.00								SPACE	26		
27								0.00									28	
29									0.00									30
31	SPACE						0.00								SPACE	32		
33								0.00									34	
35									0.00									36
37	SPACE						1.00			1	12	1	15	CP-100	38			
39								0.00								1	15	40
41									0.00								1	15
							14.33	13.33	13.33									
LOAD TYPE		LOAD (KVA)		SUBLOADS (KVA)								TOTAL (KVA)	DEM FAC	DEM LD	NOTES			
				PNL	PNL	PNL	PNL	PNL	PNL	PNL	PNL	PNL	PNL	PNL	PNL	PNL	41.00	TOTAL KVA
NOTES: DEMAND FACTOR IN ACCORDANCE WITH NEC. RACKS SHALL HAVE (N) DISTRIBUTION. OPTIONAL UPGRADE TO (2N) DISTRIBUTION SHALL BE AVAILABLE ON REQUEST.														113.80	TOTAL AMPS			

PLAN NOTES:

- ① POWER SHALL BE DISTRIBUTED TO IT RACKS AND CONTROL PANEL LOAD THROUGH CABLE TRAYS.



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SHEET TITLE:
ELECTRICAL SCHEDULES CONFIGURATION-3

DATE: 05/2/2019

DRAWING NUMBER:

E601