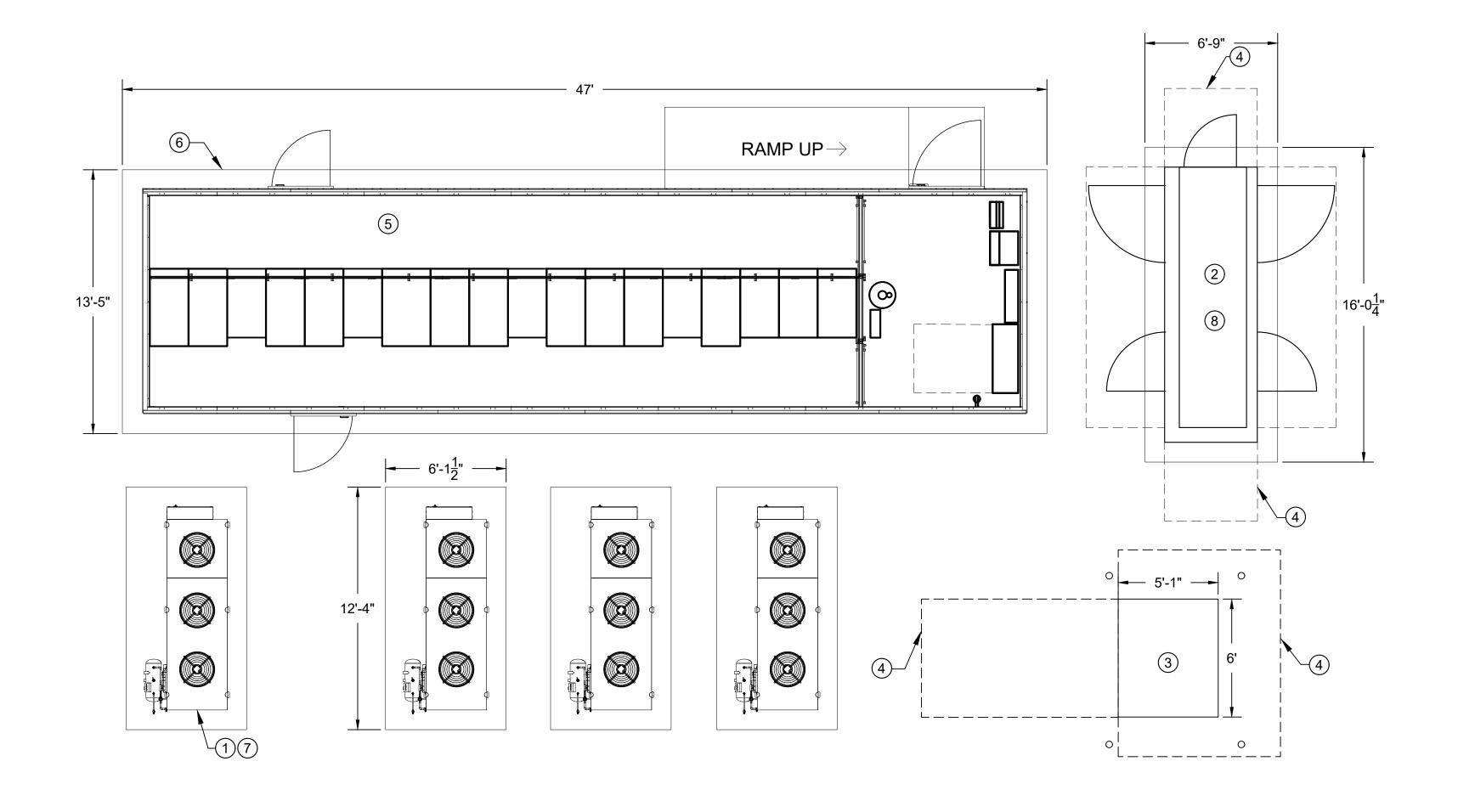
PREFAB CONFIGURATION-4

| PREFAB FRAME | MAX IT LOAD (KW) | | OULE DIMENSIONS (A | PPROXIMATE) | MDP-100 SYSTEM | UPS SYSTEM | ATS MODEL | ATS (A) | IN ROW COOLING UNIT MODEL/ | NO. OF IN ROW | NO. OF | IT RACK(MODEL)/ NETWORKING IT | NO. OF IT | RACK DENSITY | NUMBER OF SINGLE PHASE | IT RACK I | DIMENSIONS (APPR | OXIMATE) | IT RACK DISTRIBUTION |
|--------------|---------------------|------------|--------------------|-------------|----------------------|----------------|-----------|---------|---------------------------------|---------------|------------------|----------------------------------|-----------|-----------------|---------------------------|------------|------------------|-------------|----------------------|
| SIZE (KW) | IVIAX II LOAD (KVV) | DEPTH (FT) | WIDTH (FT) | HEIGHT (FT) | VOLTAGE LEVEL (V) | MODEL | ATS MODEL | A13 (A) | CONDENSING UNIT MODEL | COOLING UNITS | CONDENSING UNITS | RACK(MODEL) | RACKS | (KW/RACK) | POLES IN MBP | DEPTH (FT) | WIDTH (FT) | HEIGHT (FT) | UNIT (MODEL) |
| 100 | 90 | 45 | 11.5 | 11.5 | 480 | SYMMETRA PX100 | ASCO-300 | 400 | ACRD601/601P ACCD75230/75235 | 4 | 4 | AR3300/ AR3350 | 11 | 8.18 | 72 | 4 | 2 | 6.5 | AP8865 |





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PROJECT INFORMATION:

90KW DATA CENTER REFERENCE DESIGN PREFAB CONFIGURATION-4

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

CHECKED BY:

7 A BUILT-IN DISCONNECT SHALL BE INCLUDED WITH EACH CONDENSING UNIT(TYPICAL OF 4).

8 GENERATOR SHALL INCLUDE A BUILT-IN CIRCUIT BREAKER. SEE ONE LINE DRAWING E400 FOR

DETAILS.

DMP-XXXXXX

DRAWING SCALE: NONE

SHEET TITLE: **ELECTRICAL** SITE LAYOUT PLAN **CONFIGURATION-4**

05/2/2019

DRAWING NUMBER:

GENERAL NOTES:

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

PLAN NOTES:

- 1 OUTDOOR CONDENSING UNIT ACCD75230. CONDENSING UNIT ACCD75235 IS A SINGLE FAN UNIT OPTION AVAILABLE(TYPICAL OF 4).
- 2 250KW/313KVA STAND BY GENERATOR.

SEE ABOVE TABLE FOR DETAILS.

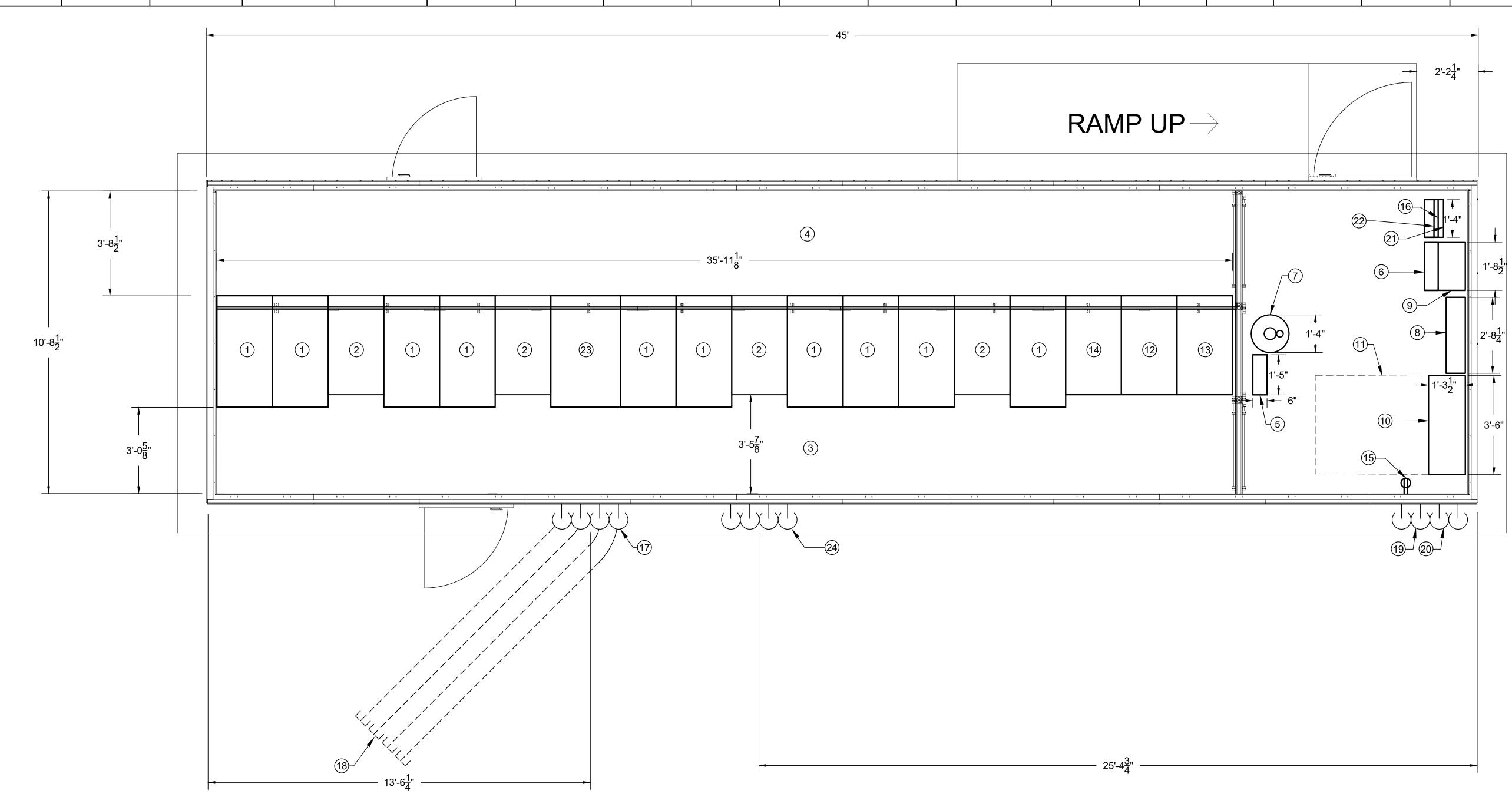
- ③ UTILITY TRANSFORMER.
- 4 REQUIRED CLEARANCE (TYPICAL).
- 5 SEE DRAWING E102 FOR FURTHER DETAILS INSIDE PREFAB MODULE.

- 6 CONCRETE PAD (TYPICAL).

ELECTRICAL SITE LAYOUT PLAN **CONFIGURATION-4** SCALE: 1/4" = 1'-0"

PREFAB CONFIGURATION-4

| PREFAB FRAME | MAX IT LOAD (KW) | PREFAB MOD | ULE DIMENSIONS (A | (PPROXIMATE) | MDP-100 SYSTEM | UPS SYSTEM | ATS MODEL | ATS (A) | IN ROW COOLING UNIT MODEL/ | NO. OF IN ROW | NO. OF | IT RACK(MODEL)/ NETWORKING IT | NO. OF IT | RACK DENSITY | NUMBER OF SINGLE PHASE | IT RACK [| DIMENSIONS (APPR | OXIMATE) | IT RACK DISTRIBUTION |
|--------------|---------------------|------------|-------------------|--------------|----------------------|----------------|-----------|---------|-------------------------------|---------------|------------------|----------------------------------|-----------|-----------------|---------------------------|------------|------------------|-------------|----------------------|
| SIZE (KW) | IVIAX II LOAD (KVV) | DEPTH (FT) | WIDTH (FT) | HEIGHT (FT) | VOLTAGE LEVEL (V) | MODEL | ATS WODEL | A13 (A) | CONDENSING UNIT MODEL | COOLING UNITS | CONDENSING UNITS | RACK(MODEL) | RACKS | (KW/RACK) | POLES IN MBP | DEPTH (FT) | WIDTH (FT) | HEIGHT (FT) | UNIT (MODEL) |
| 100 | 90 | 45 | 11.5 | 11.5 | 480 | SYMMETRA PX100 | ASCO-300 | 400 | ACRD601/601P ACCD75231 | 4 | 4 | AR3300/ AR3350 | 11 | 8.18 | 72 | 4 | 2 | 6.5 | AP8865 |



GENERAL NOTES:

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

PLAN NOTES:

- 1) IT RACK.
- 2 DX600 IN-ROW COOLING UNIT.
- (3) HOT AISLE.
- (4) COLD AISLE.
- 5 FIRE ALARM CONTROL PANEL. INSTALLATION SHALL BE AS PER NFPA 72 REQUIREMENTS.
- (6) 208/120V DISTRIBUTION PANEL(PDB-200).

- (7) FIRE SUPPRESSION CANISTER.
- (8) 480V MAIN(I-LINE/NF) DISTRIBUTION PANEL(MDP-100).
- 9 480-208/120V STEP DOWN TRANSFORMER(TRF-2).
- ASCO-300 MODEL(480V) SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH WITH PROGRAMMABLE DELAYED TRANSITION(ATS-MDP-100).
- (11) REQUIRED CLEARANCE(TYPICAL).

- (12) PX100 UPS MODULE.
- (13) PX100 UPS BATTERY CABINET.
- PX100 UPS POWER DISTRIBUTION CABINET.
- (15) 120V RECEPTACLE(TYPICAL).
- GENERATOR ANNUNCIATOR PANEL(OPTIONAL).
- (17) 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 FORUNDERGROUND RUN. PROVIDE UNDERGROUND PORTION TO JUST OUTSIDE OF SLAB EDGE AS SHOWN. PROVIDE STRUCTURAL SUPPORT FOR ABOVEGROUND PORTION. CO-ORDINATE HEIGHT
- OF CONDUITS AS REQUIRED.
- RUN UNDERGROUND PORTION DIAGONALLY AT 45 DEGREES TO THE LEFT, AS SHOWN, TO EXTEND 48"

 23 NETWORKING IT RACK. BY OTHERS. CAP CONDUIT ENDS AT THIS POINT.
- (19) PROVIDE TWO(2) 2-1/2" CONCRETE ENCASED UNDERGROUND PVC SCH-80 CONDUITS FOR POWER FROM UTILITY.
- 20) PROVIDE TWO(2) 2-1/2" AND TWO(2) 3/4" CONCRETE ENCASED UNDERGROUND PVC SCH-80 CONDUITS FOR POWER AND CONTROLS FROM GENERATOR.
- (21) CP-100 CONTROL PANEL.
- (22) ACCESS CONTROL PANEL(OPTIONAL)



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PROJECT INFORMATION:

90KW DATA CENTER REFERENCE DESIGN PREFAB CONFIGURATION-4

KEYPLAN:

REV. DATE DESCRIPTION 05/2/2019 CONCEPTUAL DRAWINGS

CHECKED BY:

PROJECT NUMBER:

(24) CONDUITS AND PIPES FOR

COOLING CONNECTIONS OF

CONDENSING UNITS. CONDUITS

PERPENDICULARLY TO MODULE

WALL AT 114" ABOVE FINISHED

SLAB AT LOCATION SHOWN.

AND PIPES SHALL BE CONNECTED

CO-ORDINATE HEIGHT OF CONDUITS

ABOVE FINISHED SLAB AS REQUIRED

DMP-XXXXXX

DRAWING SCALE: NONE

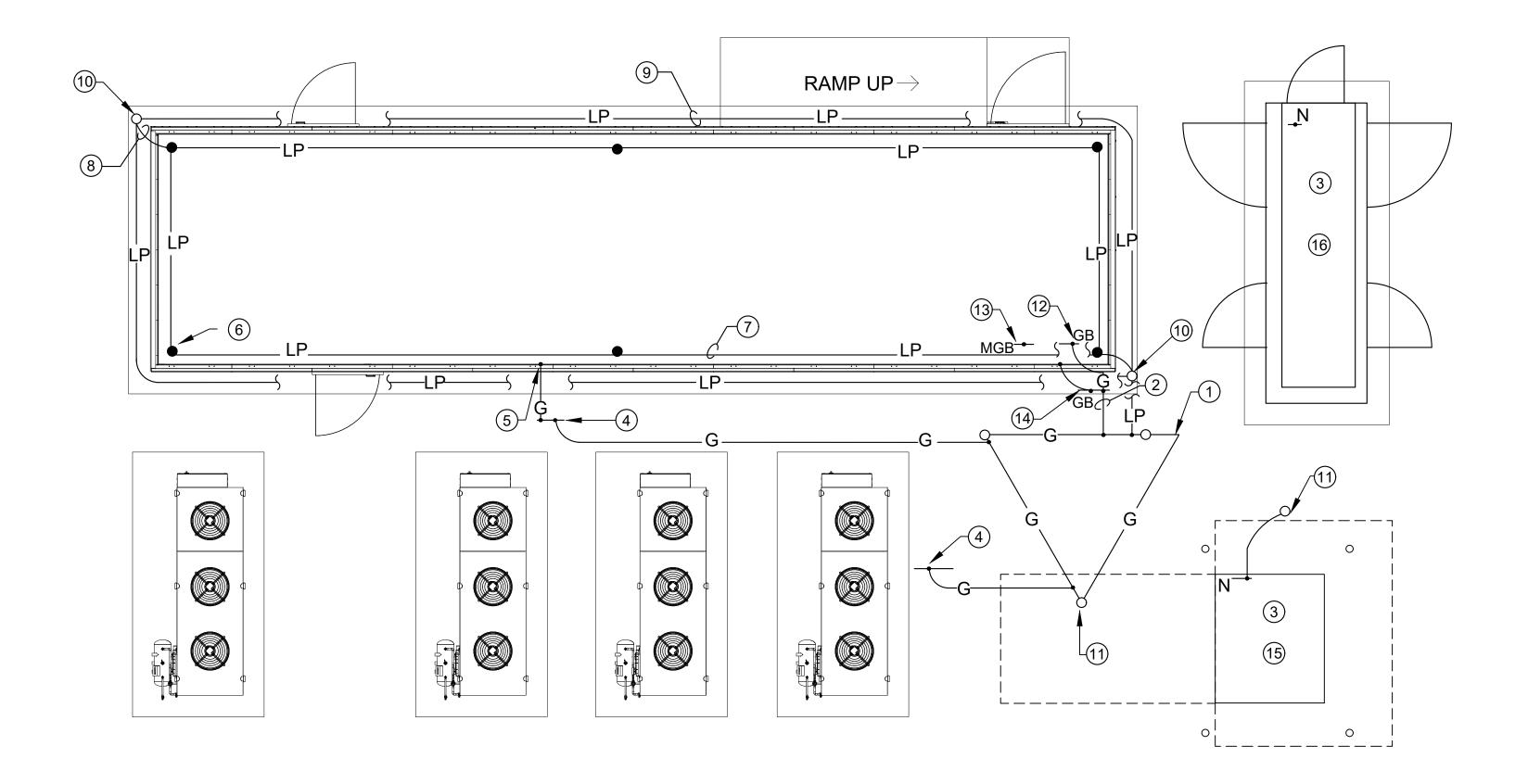
ELECTRICAL PREFAB MODULE DETAILS **CONFIGURATION-4**

05/2/2019

DRAWING NUMBER:

ELECTRICAL PREFAB MODULE DETAILS CONFIGURATION-4

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



GENERAL NOTES:

- 1. REFER TO ELECTRICAL GROUNDING DIAGRAM ON SHEET E401 FOR ADDITIONAL INFORMATION.
- 2. SEE DRAWING E500 FOR DETAILS ON MAIN GROUNDING SYSTEM AND GROUND BUS.
- 3. ALL GROUNDING CONNECTIONS AND BONDINGS SHALL BE BY ARTICLE 250 OF NFPA 70.
- 4. ALL GROUND WIRES SHALL BE #1/0 AWG BARE COPPER, STRANDED.
- 5. ALL LIGHTNING PROTECTION WIRES SHALL BE #2 AWG BARE COPPER, STRANDED.
- 6. ALL LIGHTNING PROTECTION COMPONENTS SHALL BE PROPERLY SUPPORTED TO THE STRUCTURE PER NFPA 780.
- 7. ALL LIGHTNING PROTECTION CONNECTIONS AND BONDINGS SHALL BE PER NFPA 780.

PLAN NOTES:

- MAIN GROUNDING ELECTRODE SYSTEM. SEE GROUNDING DETAIL ON SHEET E500.
- (2) MAIN GROUNDING ELECTRODE CONDUCTOR.
- (3) GENERATOR NEUTRAL AND UTILITY TRANSFORMER NEUTRAL SHALL BE INTERCONNECTED AT THE NEUTRAL BUS OF SERVICE ENTRANCE ATS (SOLID NEUTRAL SYSTEM). MAIN BONDING JUMPER SHALL CONNECT NEUTRAL BUS TO THE GROUND BUS. SEE ELECTRICAL GROUNDING ONE LINE DIAGRAM ON SHEET E401 FOR DETAILS.
- (4) CONNECT STRUCTURAL STEEL TO MAIN GROUNDING ELECTRODE SYSTEM (TYPICAL). CONTRACTOR SHALL ENSURE THAT ALL STRUCTURAL STEEL COMPONENT WITHIN THE SLAB ARE PROPERLY BONDED WITH EACH OTHER.
- (5) CONNECT EQUIPMENT ENCLOSURE TO STRUCTURAL STEEL (TYPICAL).
- (6) LIGHTNING PROTECTION AIR TERMINAL(TYPICAL OF 6).
- 7) LIGHTNING PROTECTION ROOF WIRE.
- (8) LIGHTNING PROTECTION DOWN WIRE (TYPICAL OF 2.)
- (9) LIGHTNING PROTECTION RING WIRE. INSTALL ENCASED IN CONCRETE SLAB BUT IN DIRECT CONTACT WITH EARTH.
- (10) LIGHTNING PROTECTION GROUNDING ELECTRODE(TYPICAL OF 2). PROVIDE MIN. 8FT X 1/2IN DIAM. COPPER ROD. DRIVE TO A MINIMUM OF 10FT INTO THE EARTH.
- (11) GROUNDING ELECTRODE(TYP.). PROVIDE MINIMUM 8FT X 3/4IN DIAM. COPPER ROD. DRIVE TO A MINIMUM OF 10FT INTO THE EARTH.
- GROUND BAR AT THE SERVICE ENTRANCE ATS. REFER TO ELECTRICAL GROUNDING ONE LINE DIAGRAM ON SHEET E401 FOR DETAILS.

LEGEND:

GB

GROUND WIRE.

GROUND BAR.

LIGHTNING PROTECTION WIRE.

MAIN GROUNDING BUS.

- (13) MAIN GROUNDING BAR.REFER TO ELECTRICAL GROUNDING DIAGRAM ON SHEET E401 FOR DETAILS.
- (14) GROUND BAR LOCATED OUTSIDE.
- (15) UTILITY TRANSFORMER.
- (16) 250KW/313KVA STANDBY GENERATOR.

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PROJECT INFORMATION:

90KW DATA CENTER REFERENCE DESIGN PREFAB CONFIGURATION-4

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REV. DATE DESCRIPTION 0 05/2/2019 CONCEPTUAL DRAWINGS DRAWN BY: CHECKED BY: PROJECT NUMBER:

SHEET TITLE:

GROUNDING AND LIGHTNING PROTECTION PLAN, CONFIGURATION-4

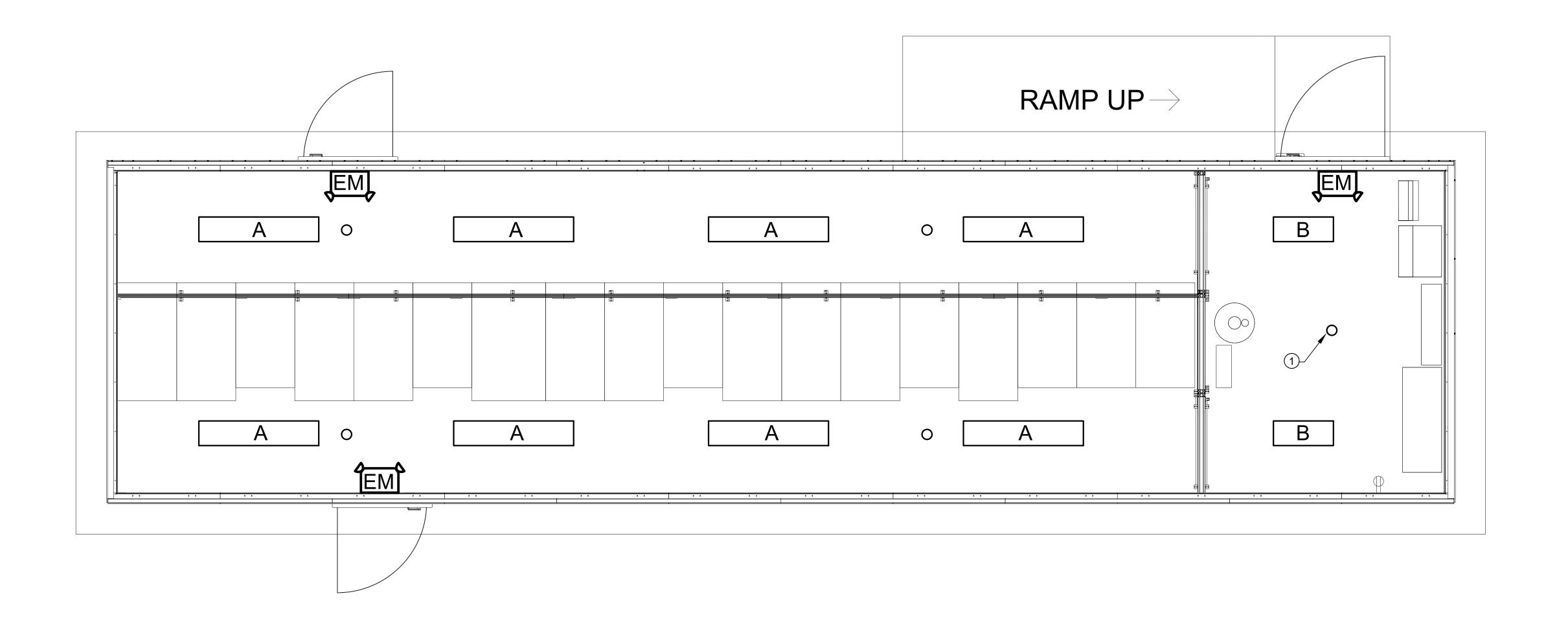
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05/2/2019

DRAWING NUMBER:

DRAWING SCALE: NONE

GROUNDING AND LIGHTNING PROTECTION PLAN, CONFIGURATION-4



| | | | LIGH | ITING FIXTUR | E SCHEDULE | = | LIGHTING FIXTURE SCHEDULE | | | | | | | | | | |
|------|-----------------------------|--------------------------------|---------|--------------|------------|-----------|---------------------------|--|--|--|--|--|--|--|--|--|--|
| т | MANUFACTU TYPE | | VOLTAGE | WATTAGE | LAMP | NUMBER OF | MOUNTING | | | | | | | | | | |
| • | | PRODUCT # | VOLIAGE | WATTAGE | LAWII | FIXTURES | MOONTING | REMARKS | | | | | | | | | |
| Λ | LED 4FT | LITHONIA LIGHTING | 120V | 38W | LED | Q | SURFACE | 4' LED VAPOR TIGHT FIXTURE | | | | | | | | | |
| А | VAPORTIGHT | 4VT2-LD4-4-DR-UNVL840-CD1-WL-U | 1200 | 3000 | LED | 0 | SUNFACE | DIMMABLE | | | | | | | | | |
| В | LED 2FT | LITHONIA LIGHTING | 120V | 28.4W | LED | 2 | SURFACE | 2' LED VAPOR TIGHT FIXTURE | | | | | | | | | |
| Ь | VAPORTIGHT | 2VT2-LD4-3-DR-UNVL840-CD1-WL-U | 1200 | 20.4 | LED | 2 | SURFACE | DIMMABLE | | | | | | | | | |
| EM | LED COMBO EXIT/EMERGENCY | LITHONIA LIGHTING | 120V | 4.3W | LED | 2 | SURFACE | THERMOPLASTIC WHITE | | | | | | | | | |
| ⊏IVI | LIGHTS | LHQM LED R HO M6 | 1200 | 4.300 | LED | 3 | SURFACE | (2) HEAD, BATTERY BACKED EMERGENCY LIGHT | | | | | | | | | |

GENERAL NOTES:

PLAN NOTES:

 REFER TO ONE LINE DIAGRAM ON SHEET E400 FOR ADDITIONAL DETAILS ON THE ELECTRICAL SYSTEM.

2. FOR ELECTRICAL SCHEDULES, SEE DRAWINGS ON SHEETS E600 AND E601.

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

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PROJECT INFORMATION:

90KW DATA CENTER REFERENCE DESIGN PREFAB CONFIGURATION-4

KEYPLAN:

| REV. | DATE | DESCRIPTION |
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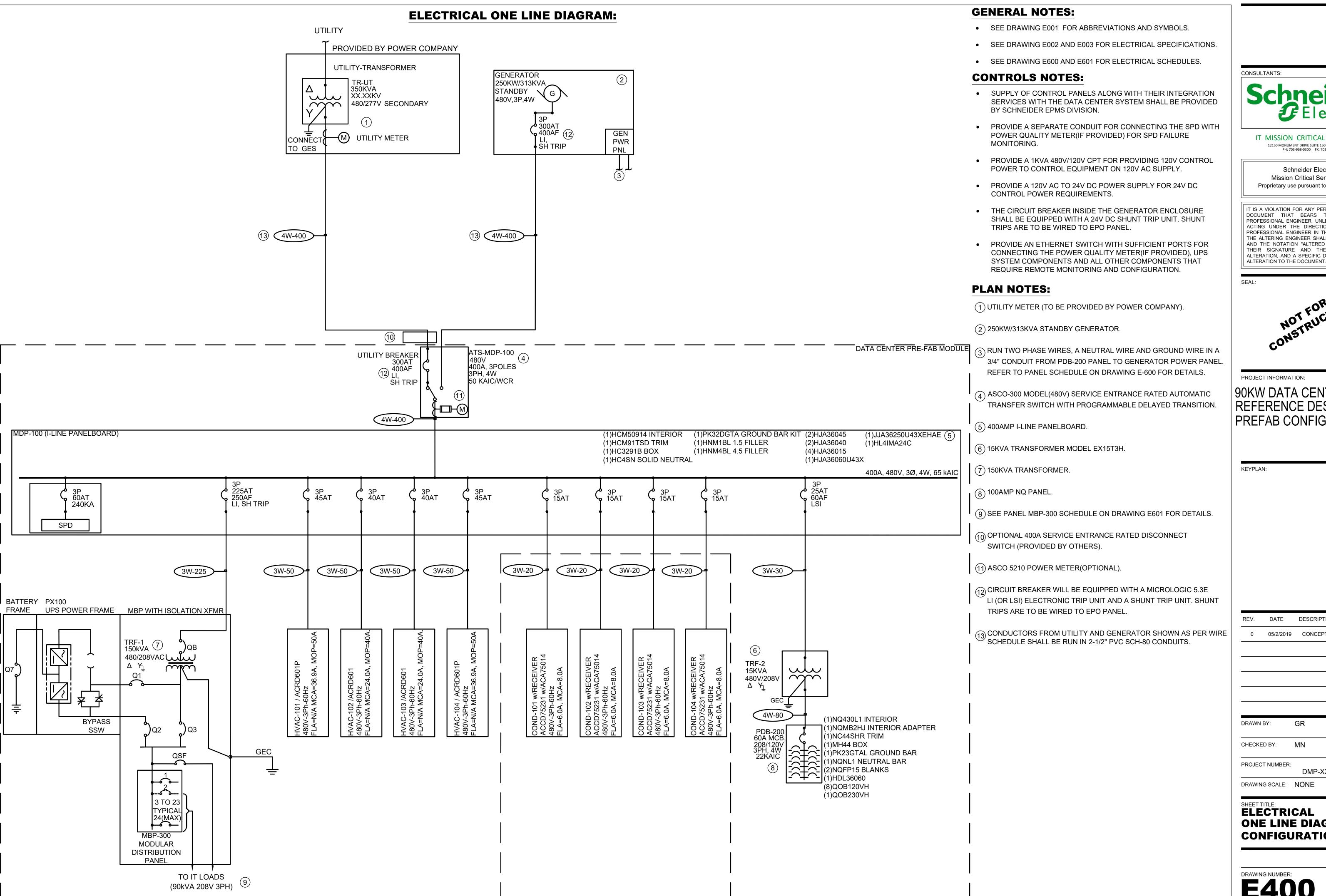
DRAWING NUMBER:

E104

CONFIGURATION-4

ELECTRICAL LIGHTING PLAN CONFIGURATION-4

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





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PROJECT INFORMATION:

90KW DATA CENTER REFERENCE DESIGN PREFAB CONFIGURATION-4

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

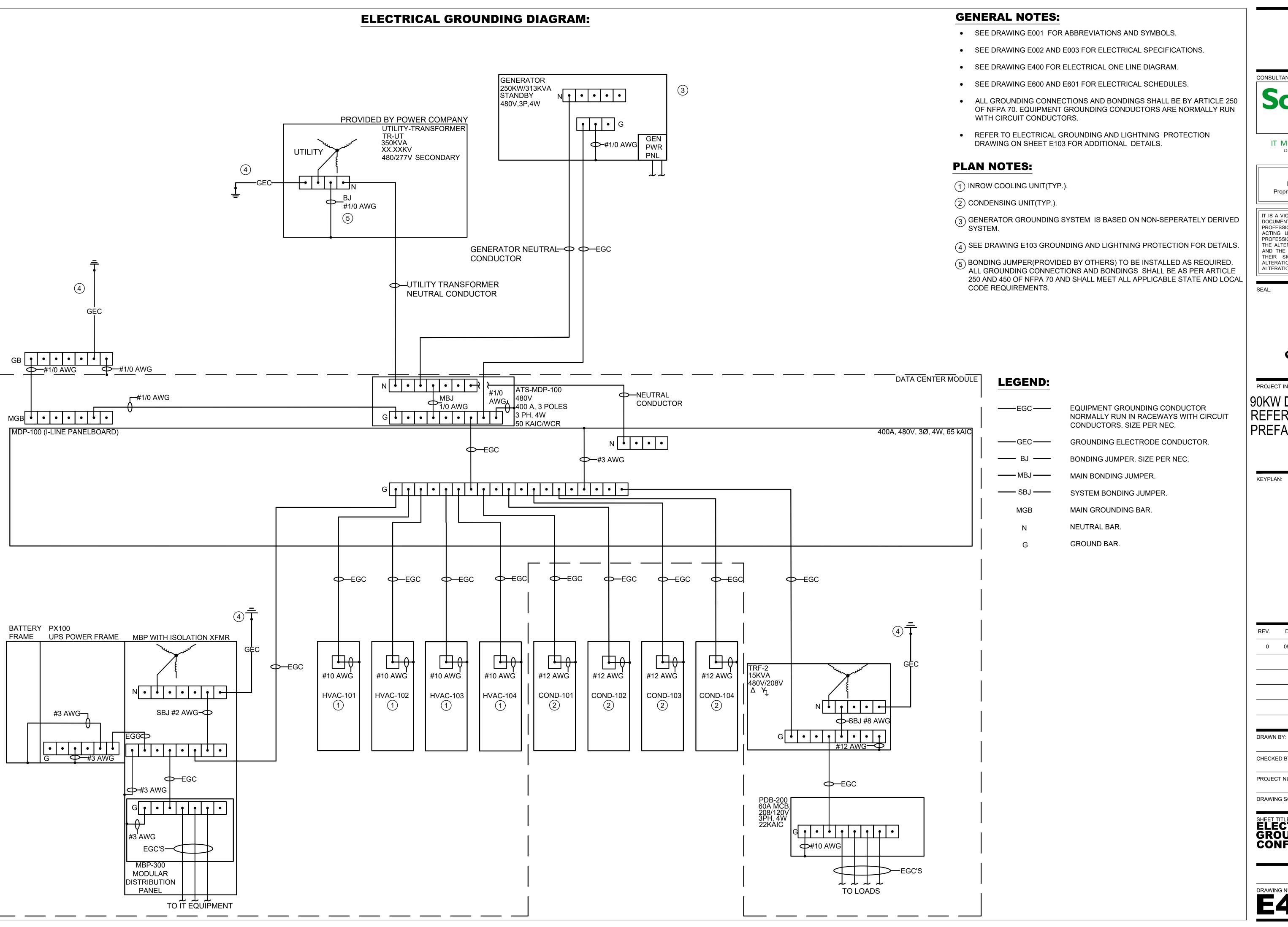
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DMP-XXXXXX

ELECTRICAL ONE LINE DIAGRAM CONFIGURATION-4

05/2/2019

DRAWING NUMBER:



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90KW DATA CENTER REFERENCE DESIGN PREFAB CONFIGURATION-4

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PROJECT NUMBER:

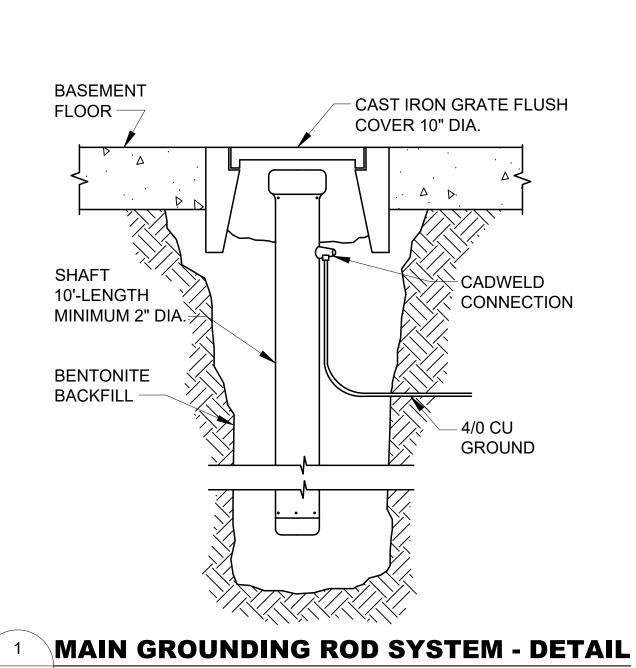
DMP-XXXXXX

DRAWING SCALE: NONE

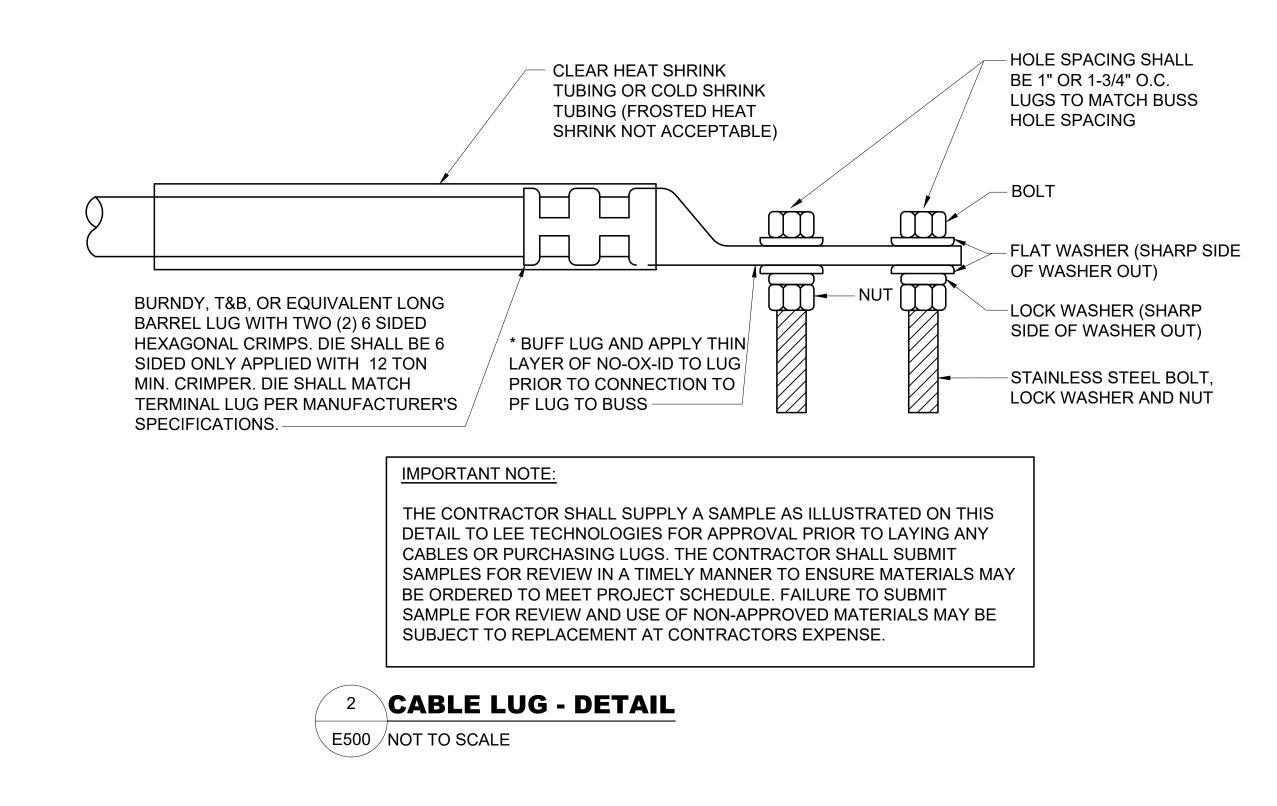
ELECTRICAL GROUNDING DIAGRAM **CONFIGURATION-4**

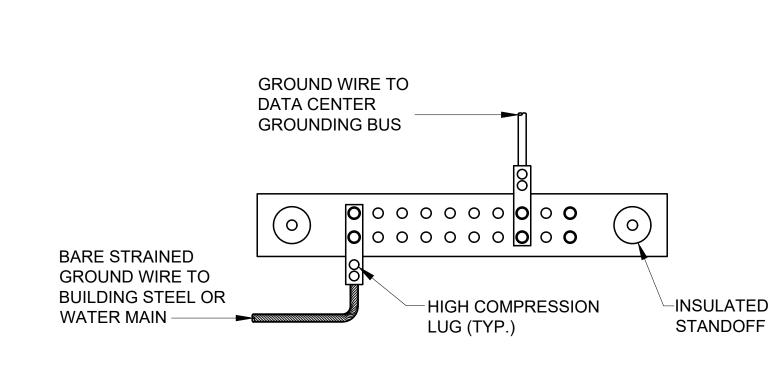
05/2/2019

DRAWING NUMBER:



E500 NOT TO SCALE

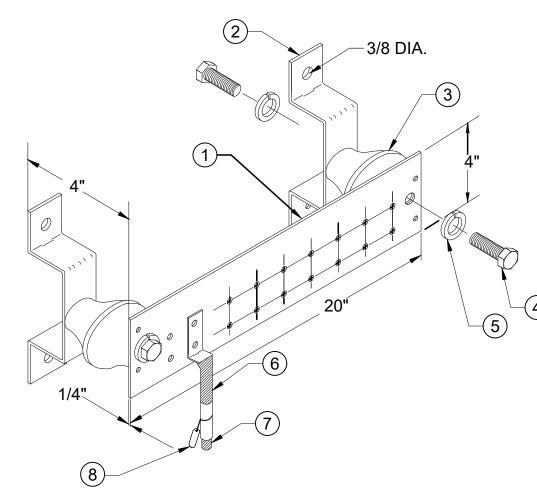




3

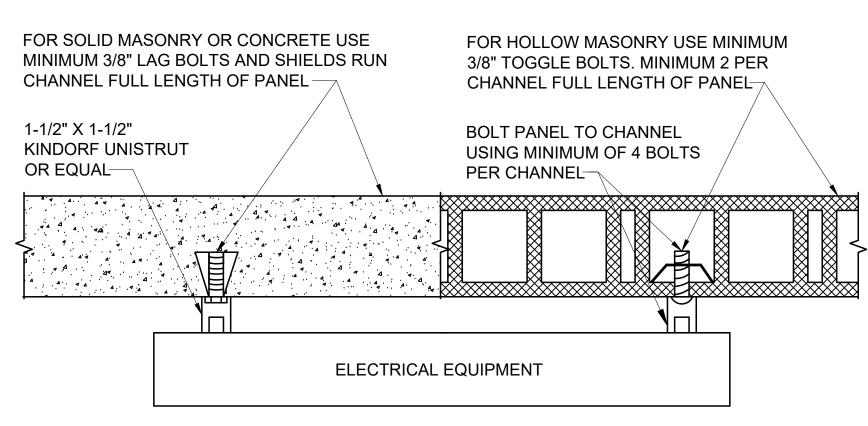
MAIN GROUNDING BUS - DETAIL

E500 NOT TO SCALE



| | ITEM NO. | REQ. | DESCRIPTION |
|------------|----------|------|-------------------------------------|
| | 1) | 1 | GROUND BAR |
| | 2 | 2 | WALL MTG. BRKT.(OR FLOOR) |
| | 3 | 2 | INSULATORS |
| | 4 | 4 | 5/8"-11 X 1 H.H.C.S. |
| 4) | 5 | 4 | 5/8" LOCKWASHER |
| | 6 | 1 | SEE DETAIL #1 IN THIS SHEET |
| | 7 | 1 | GREEN INSULATED GROUND CONDUCTOR |
| | 8 | 1 | DESTINATION LABEL TAG DO NOT REMOVE |

- BELOW RAISED FLOOR AGB +12" A.F.F.
- PROVIDE INSULATORS 24" ON CENTER ACROSS LENGTH OF GROUND BAR.
- ALL CONNECTIONS SHALL BE MADE WITH STAINLESS STEEL TAMPER PROOF HARDWARE OR EXOTHERMIC WELD.



NOTE:

ALL SAFETY SWITCHES, 60A AND LARGER; ALL STARTERS AND CONTROLLERS, 3 H.P. AND LARGER; ALL SURFACE MOUNTED PANELS AND ALL EQUIPMENT MOUNTED ON OUTSIDE WALLS, SHALL BE MOUNTED IN THIS MANNER.

5 SURFACE EQUIPMENT MOUNTING - DETAIL
E500 NOT TO SCALE



SHEET TITLE:
ELECTRICAL DETAILS
CONFIGURATION-4

DMP-XXXXXX

05/2/2019

DATE DESCRIPTION

GR

MN

05/2/2019 CONCEPTUAL DRAWINGS

DRAWING NUMBER:

E500

DRAWN BY:

CHECKED BY:

PROJECT NUMBER:

CONSULTANTS:

SEAL:

PROJECT INFORMATION:

KEYPLAN:

90KW DATA CENTER

REFERENCE DESIGN

PREFAB CONFIGURATION-4

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|-------------------|-----|-----------|---------------|---------------|--------|--------|-------|--------|----------|----------|-------|---------------|-------|-------|---------------|--------------|---------------|---|-----|
| VOLT | AGE | PH | WIRE | MCB | (A) | MLC |) (A) | AIC | MOU | NTING | LOCA | TION | | | F | PANEL C | ATALOG | NUMBER : | |
| 277 / 4 | 180 | 3 | 4 | | | 40 | 00 | 65,000 | SUR | FACE | MOD | ULE | | | | | | | |
| CKT | • | | ITEM | | CIRCUI | T BRKR | WIRE | COND. | LOAD | | PHASE | | LOAD | COND. | WIRE | CIRCUI | T BRKR | ITEM | СКТ |
| # | | | SERVED | | TRIP | Р | SIZE | SIZE | (KVA) | Α | В | С | (KVA) | SIZE | SIZE | Р | TRIP | SERVED | # |
| 1 | | | UPS | | 225 | 3 | 4/0 | 2" | 91.00 | 33.65 | 33.65 | 33.65 | 9.96 | 3/4" | 10 | 3 | 25 | TRF-2 | 2 |
| 3 | | | HVAC-101 | | 45 | 3 | 8 | 3/4" | 30.68 | 12.44 | 12.44 | 12.44 | 6.65 | 3/4" | 12 | 3 | 15 | COND-101 | 4 |
| 5 | | | HVAC-102 | | 40 | 3 | 8 | 3/4" | 24.94 | 10.53 | 10.53 | 10.53 | 6.65 | 3/4" | 12 | 3 | 15 | COND-102 | 6 |
| 7 | | | HVAC-103 | | 40 | 3 | 8 | 3/4" | 24.94 | 10.53 | 10.53 | 10.53 | 6.65 | 3/4" | 12 | 3 | 15 | COND-103 | 8 |
| 9 | | HVAC- | 104(REDUNDAI | NT) | 45 | 3 | 8 | 3/4" | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3/4" | 12 | 3 | 15 | COND-104(REDUNDANT) | 10 |
| 11 | | | SPACE | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | SPACE | 12 |
| 13 | | | SPACE | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | SPACE | 14 |
| 15 | | | SPACE | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | | 6 | 3 | 60 | SPD BREAKER | 16 |
| | | | | | | | | | 01.151.0 | | 67.16 | 67.16 | | | | | | | |
| LOAD | | | | LOAD | | DNII | DAII | | | ADS (KV | | DAII | | D. II | TOTAL | DEM | | NOTES | |
| TYPE | | | | (KVA) | PNL | PNL | PNL | PNL | PNL | PNL | PNL | PNL | PNL | PNL | (KVA) | FAC | LD | | |
| UPS TRF-2 | | | | 91.00 9.96 | - | - | - | - | - | - | - | _ | - | | 91.00 9.96 | 1.00 1.00 | 91.00 9.96 | | |
| HVAC- | 101 | | | 30.68 | - | - | - | - | - | <u> </u> | - | <u>-</u> - | - | | 30.68 | 1.00 | 30.68 | | |
| HVAC- | | | | 24.94 | _ | _ | - | _ | - | <u> </u> | _ | | - | | 24.94 | 1.00 | 24.94 | | |
| HVAC- | | | | 24.94 | _ | _ | | _ | _ | <u> </u> | _ | | _ | | 24.94 | 1.00 | 24.94 | | |
| HVAC- | | DUNDA | ANT) | 0.00 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 1.00 | 0.00 | | |
| COND- | | | , | 6.65 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 6.65 | 1.00 | 6.65 | | |
| COND- | | | | 6.65 | _ | _ | _ | _ | _ | _ | - | - | _ | - | 6.65 | 1.00 | 6.65 | | |
| COND- | | | | 6.65 | _ | _ | _ | _ | - | _ | - | _ | - | - | 6.65 | 1.00 | 6.65 | | |
| COND- | | EDUND | ANT) | 0.00 | - | - | - | - | - | - | - | - | - | - | 0.00 | 1.00 | 0.00 | | |
| | | | | | • | | • | • | | | | | | | 201.47 | | 201.47 | TOTAL KVA | |
| | | | tor Load | 7.67 | - | - | - | - | - | - | - | - | - | - | 7.67 | 1.00 | 7.67 | | |
| | | | uous Load | 34.95 | - | - | - | - | - | - | - | - | - | - | 34.95 | 1.00 | 34.95 | | |
| plus Ba 25 % C | | | ntinuous Load | 2.03 | _ | - | - | - | - | - | - | | - | - | 2.03 | 1.00 | 2.03 | | |
| NOTES | | 750 D III | N ACCORANCE | | | , | , | • | | | | | | | | | 246.12 | SUM TOTAL KVA(125% CONTINUOUS LOAD+ 100% CONTINUOUS LOAD+100% MOTOR LOADS+ 25% LARG MOTOR LOAD) TOTAL AMPS | |

| VOLTAGE 120/ 208 CKT # 1 | E PH WIRE 3 4 ITEM | MCB | (Δ) | 141.0 | | | | | | | | | | | | | |
|-----------------------------------|--------------------------|------------|------|-------|-------|--------|--------|-------------------|-------|-------------------|--------------|--------------|----------|----------|--------|---|-----|
| CKT | | | ` , | MLC |) (A) | AIC | MOUN | | | TION | | | PANE | L CATAL | OG NUN | MBER: NQ430L2 | |
| | ITCN/ | 60 | | | 1 | 22,000 | SURF | FACE | MOE | DULE | | ı | | | | | |
| # 1 | | | CKT. | ı | WIRE | COND. | LOAD | | PHASE | _ | LOAD | | WIRE | CKT. | | ITEM | CKT |
| 1 | SERVED | | TRIP | Р | SIZE | SIZE | (KVA) | A | В | С | (KVA) | SIZE | SIZE | <u>P</u> | TRIP | SERVED | # |
| | ERV & DAMPER SYS | | 20 | 1 | 12 | 3/4" | 0.60 | 1.20 | | > | 0.60 | 3/4" | 12 | 1 | 20 | FIRE SUPPRESSION | 2 |
| 3 | RECEPTACLES | 5 | 20 | 1 | 12 | 3/4" | 1.26 | \sim | 2.26 | | 1.00 | 3/4" | 12 | 1 | 20 | EXTERIOR LIGHTING | 4 |
| 5 7 | GENERATOR POWER | PANEL | 30 | 2 | 10 | 3/4" | 5.00 | | 3.00 | 3.50 | 1.00 0.50 | 3/4" 3/4" | 12 12 | <u> </u> | 20 | CONTROLS POWER INTERIOR LIGHTING | 8 |
| 9 | SPARE | | 20 | 1 | | | 0.00 | | | 0.00 | | | | | | CDACE | 10 |
| 11 | CDACE | | | | | | | | | | | | | | | SPACE | 12 |
| 13 | SPACE | | | | | | | | | 0.00 | 0.00 | | | 1 | 20 | SPARE | 14 |
| 15 | SPACE | | | | | | | | | | | | | | | SPACE | 16 |
| 17 | OI ACL | | | | | | | | | | | | | | | SPACE | 18 |
| 19 | SPACE | | | | | | | \geq | | | | | | | | SPACE | 20 |
| 21 | | | | | | | | | | \sim | | | | | | | 22 |
| 23 | SPACE | | 1 | | | | | | | \sim | | | | | | SPACE | 24 |
| 25 | SPACE | | | | | | | \sim | | \sim | | | | | | SPACE | 26 |
| 27 | SPACE | | | | | | | \longrightarrow | | $\langle \rangle$ | | | | | | SPACE | 28 |
| 29 | SPACE | | | | | | | 1.20 | F 26 | 2 50 | | | | | | SPACE | 30 |
| LOAD | | LOAD | Τ | | | | SUBLOA | | 5.26 | 3.50 | | T | TOTAL | DEM | DEM | NOTES | |
| TYPE | | (KVA) | PNL | PNL | PNL | PNL | PNL | PNL | PNL | PNL | PNL | PNL | (KVA) | FAC | LD | INOTES | |
| ERV & DAM | MPER SYSTEM | 0.60 | - | - | - | - | - | - | - | - | - | - | 0.60 | 1.00 | 0.60 | | |
| FIRE SUPF | PRESSION | 0.60 | | _ | _ | - | - | _ | _ | - | _ | - | 0.60 | 1.00 | 0.60 | | |
| RECEPTAG | CLES | 1.26 | - | - | - | - | - | - | - | - | - | - | 1.26 | 1.00 | 1.26 | | |
| EXTERIOR | R LIGHTING | 1.00 | - | - | _ | - | - | - | - | - | - | - | 1.00 | 1.00 | 1.00 | | |
| GENERAT | OR POWER PANEL | 5.00 | _ | - | - | - | - | _ | - | - | _ | - | 5.00 | 1.00 | 5.00 | | |
| CONTROL | S POWER | 1.00 | - | - | - | - | - | - | - | ı | - | - | 1.00 | 1.00 | 1.00 | | |
| INTERIOR | LIGHTING | 0.50 | _ | - | - | - | - | - | - | - | _ | _ | 0.50 | 1.00 | 0.50 | | |
| SPARE | | 0.00 | _ | - | - | - | - | - | - | - | - | - | 0.00 | | 0.00 | | |
| SPARE | | 0.00 | - | - | - | - | - | - | - | - | - | - | 0.00 | | 0.00 | | |
| | | | 1 | Т | 1 | | | Г | | | | | | | 9.96 | TOTAL KVA | |
| 25% Of Co | ontinuous Loads | 2.03 | - | - | - | - | - | - | - | - | - | - | 2.03 | 1.00 | 2.03 | | |
| NOTES: | | | | | | | | | | | | | | | 11.99 | SUM TOTAL KVA(125% CONTINUOUS LOAD+ 100% CONTINUOUS LOAD) | NON |
| | FACTOR IN ACCORANG | CE WITH NE | C. | | | | | | | | | | | | 33.27 | TOTAL AMPS | |

3-WIRE FEEDER SIZING SCHEDULE

| SYMBOL | # OF SETS | CONDUCTORS (COPPER) | GND. | CONDU |
|-------------|--------------|------------------------|---------|--------|
| 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" |
| 1401=====:= | | <u> </u> | | |

+ WHERE THE FEEDER SYMBOL IS SHOWN WITH A SUBSCIPT '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 SHO | WN WITH A | SUBSCIPT |

+ WHERE THE FEEDER SYMBOL IS SHOWN WITH A SUBSCIPT '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.

CONSULTAN



IT MISSION CRITICAL SERVICES, INC.

12150 MONUMENT DRIVE SUITE 150 FAIRFAX, VA. 22033
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SEAL:



PROJECT INFORMATION:

90KW DATA CENTER
REFERENCE DESIGN
PREFAB CONFIGURATION-4

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-4

DATE:

E600

PLAN NOTES:

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

| SYSTEM LOAD CA | LCULATI | ON |
|-----------------------|---------|------|
| ITEM | LOAD | UNIT |
| CRITICAL LOAD | 91.000 | KVA |
| HVAC 101 | 30.678 | KVA |
| COND 101 | 6.651 | KVA |
| HVAC 102 | 24.940 | KVA |
| COND 102 | 6.651 | KVA |
| HVAC 103 | 24.940 | KVA |
| COND 103 | 6.651 | KVA |
| HVAC 104(REDUNDANT) | 0.000 | KVA |
| COND 104(REDUNDANT) | 0.000 | KVA |
| ERV & DAMPER SYSTEM | 0.600 | KVA |
| FIRE SUPPRESSION | 0.600 | KVA |
| RECEPTACLES | 1.260 | KVA |
| INTERIOR LIGHTING | 0.500 | KVA |
| GENERATOR POWER PANEL | 5.000 | KVA |
| CONTROLS POWER | 1.000 | KVA |
| LOBBY VENTILATION | 0.12 | KVA |
| EXTERIOR LIGHTING | 1 | KVA |
| TOTAL KVA | 201.591 | KVA |

| VOLTAGE | PH WIRE | MCB (A) | MLC |) (A) | AIC | MOU | VTING | LOCATION | | | | PANEL (| CATALO | G NUMBER | |
|----------------|---------|---------|-----|-------|--------|-------|-------|---------------|-------|-------|------|---------|--------|----------|----|
| 120/ 208 | 3 4 | 400 | | | 65,000 | SURI | FACE | MODULE | | | | | | | |
| CKT | ITEM | CKT. | BRK | WIRE | COND. | LOAD | | PHASE | LOAD | COND. | WIRE | CKT. | BRK | ITEM | Ck |
| # | SERVED | TRIP | Р | SIZE | SIZE | (KVA) | Α | ВС | (KVA) | SIZE | SIZE | Р | TRIP | SERVED | # |
| 1 3 | RACK#1 | 30 | 3 | 10 | | 8.18 | 5.45 | 5.45 | 8.18 | | 10 | 3 | 30 | RACK#7 | |
| 7 9 | RACK#2 | 30 | 3 | 10 | | 8.18 | 5.45 | 5.45 | 8.18 | | 10 | 3 | 30 | RACK#8 | |
| 11 13 15 | RACK#3 | 30 | 3 | 10 | | 8.18 | 5.45 | 5.45 | 8.18 | | 10 | 3 | 30 | RACK#9 | |
| 17 19 | | | | | | | 5.45 | 5.45 | | | | _ | | | |
| 21 23 25 | RACK#4 | 30 | 3 | 10 | | 8.18 | 5.45 | 5.45 | 8.18 | | 10 | 3 | 30 | RACK#10 | |
| 27 29 | RACK#5 | 30 | 3 | 10 | | 8.18 | | 5.45 5.45 | 8.18 | | 10 | 3 | 30 | RACK#11 | |
| 31 33 35 | RACK#6 | 30 | 3 | 10 | | 8.18 | 2.73 | 2.73 | | | | | | SPACE | |
| 37 39 41 | SPACE | | | | | | 0.00 | 0.00 | | | | | | SPACE | |
| 43 45 47 | SPACE | | | | | | 0.00 | 0.00 | | | | | | SPACE | |
| 49 51 53 | SPACE | | | | | | 0.00 | 0.00 | | | | | | SPACE | |
| 55 57 59 | SPACE | | | | | | 0.00 | 0.00 | - | | | | | SPACE | |
| 61 63 65 | SPACE | | | | | | 0.00 | 0.00 | | | | | | SPACE | |
| 67 | CP-100 | 15 | 1 | 12 | | 1.00 | 1.00 | | 0.00 | | | 1 | 15 | SPARE | _ |
| 69 | SPARE | 15 | 1 | | | 0.00 | | 0.00 | | | | | | | |
| 71 | | | | | | | | 0.00 | | | | | | | |
| OTES: | | | | | | | 30.99 | 29.99 29.99 | | | | | | 1 | |

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PROJECT INFORMATION:

90KW DATA CENTER REFERENCE DESIGN PREFAB CONFIGURATION-4

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-4

DATE:

DRAWING NUMBER: