SYMBOL — POWER

Symbol	Description
LP2A-1,3	HOME RUN TO PANELBOARD LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS. PROVIDE ONE PHASE CONDUCTOR, ONE NEUTRAL CONDUCTOR , AND ONE EQUIPMENT GROUNDING CONDUCTOR FOR SINGLE POLE CIRCUIT BREAKER CIRCUITS. PROVIDE TWO PHASE CONDUCTORS AND ONE EQUIPMENT GROUNDING CONDUCTOR FOR TWO POLE CIRCUIT BREAKER CIRCUITS. PROVIDE THREE PHASE CONDUCTORS AND ONE EQUIPMENT GROUNDING CONDUCTOR FOR THREE POLE CIRCUIT BREAKER CIRCUITS.
	CONDUIT AND CABLE, CONCEALED IN FINISHED SPACES, EXPOSED ELSEWHERE.
	CONDUIT AND CABLE, BELOW GRADE OR SLAB.
EU	UNDERGROUND DUCTBANK: EU = DENOTES ELECTRICAL GAS = DENOTES GAS LINE OE = DENOTES OVERHEAD ELECTRIC LINE T = DENOTES TELECOMMUNICATIONS
	CONDUIT TURNED UP.
	CONDUIT TURNED DOWN.
TW	GROUND ROD TEST WELL
	GROUND ROD
	EXOTHERMIC WELD.
	CLAMP CONNECTOR
	BOLTED CONNECTION
	AIR TERMINAL
	GROUND / GROUND ROD / GEC
	LIGHTNING PROTECTION MAIN CONDUCTOR
G	BARE COPPER GROUNDING CONDUCTOR.
	GROUNDING BUSBAR
S Xa	WALL SWITCH UNLESS OTHERWISE NOTED MOUNTED 48"AFF. "X" REPRESENTS TYPE. "a" REPRESENTS LIGHTS SWITCHED. LV4 = 4 BUTTON LOW VOLTAGE SWITCH WITH RAISE/LOWER AND ON/OFF LV8 = 8 BUTTON LOW VOLTAGE SWITCH WITH RAISE/LOWER AND ON/OFF AND 4 ZONES TS = TIME SWITCH D = LOW VOLTAGE DIMMER K = KEY OPERATED LV = LOW VOLTAGE SWITCH
	SINGLE, DUPLEX, 4-PLEX RECEPTACLE, MOUNTED 18"AFF UON. WP = WATERPROOF SP = SURGE SUPPRESSION TR = TAMPER RESISTANT AC = MOUNTED ABOVE COUNTER
	SPECIAL PURPOSE RECEPTACLE, SIZE AND TYPE AS SHOWN ON THE DRAWING.
	GFI DUPLEX RECEPTACLE.
	DUPLEX RECEPTACLE. FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE. CEILING MOUNTED, UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE WITH TWO 5VDC USB PORTS, ONE TYPE A USB PORT AND ONE TYPE B USB PORT.
PB	PULLBOX SIZE PER NEC UNLESS OTHERWISE NOTED.
T	TRANSFORMER.
J	JUNCTION BOX SIZE PER NEC UNLESS OTHERWISE NOTED.
E	EQUIPMENT CONNECTION POINT.
	PANELBOARD SURFACE OR FLUSH MOUNTED AS INDICATED.
VFD	VARIABLE FREQUENCY DRIVE.
	MOTOR CONNECTION.
M	SINGLE POLE MANUAL MOTOR STARTER, WITH THERMAL OVERLOAD PROTECTION.
100/3/3R	NON-FUSIBLE DISCONNECT. "100/3" DENOTES 100A, 3P, '3R'.
200/3/150	FUSIBLE DISCONNECT SWITCH. "200/3/150" DENOTES 200A, 3P, WITH 150A FUSES.
100/3/3R	ENCLOSED THERMAL MAGNETIC CIRCUIT BREAKER INDIVIDUALLY MOUNTED. "100/3" DENOTES 100A, 3P, 3R (NOTATION TYPICAL).
	MAGNETIC MOTOR STARTER INDIVIDUALLY MOUNTED.
100/3	FUSIBLE DISCONNECT SWITCH TYPE COMBINATION MAGNETIC MOTOR STARTER, CIRCUIT NUMBER AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR.
	MOTOR CIRCUIT PROTECTOR TYPE COMBINATION MAGNETIC MOTOR STARTER, CIRCUIT NUMBERS AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR.
	SURFACE METAL RACEWAY, (SMR) COORDINATE SIZE WITH SPECIFICATION, MOUNTED ABOVE COUNTER TOP, UNLESS OTHERWISE NOTED.
FB1	MULTISERVICE FLOOR BOX, . SEE E-502 FOR MORE INFORMATION.
FB2	MULTISERVICE FLOOR BOX, . SEE E-502 FOR MORE INFORMATION.
PT1	MULTISERVICE POKE THRU WITH QUADRUPLEX SOCKET AND GROUND. SEE MTF-T001 FOR TELECOMMUNICATIONS INFORMATION.
	EMERGENCY PUSH BUTTON
	PUSH BUTTON CONTROLLER

SYMBOL — FLOORBOXES

Symbol	Description
	FLOORBOX LOCATION, TRAINING SIMULATION SYSTEM – UNCLASSIFIED; INSTALLED IN RAISED ACCESS FLOOR. INSTALL EIGHT (8) CATEGORY 6A UTP PLENUM-RATED, GREEN JACKET COPPER CABLES FROM TERMINATING RACK IN SIM SERVER ROOM TO FLOORBOX LOCATION. SEE DETAIL SHEET E-502 FOR TERMINATION DETAILS.
	FLOORBOX LOCATION, TRAINING SIMULATION SYSTEM – CLASSIFIED; INSTALLED IN RAISED ACCESS FLOOR. INSTALL EIGHT (8) CATEGORY 6A UTP PLENUM-RATED, RED JACKET COPPER CABLES FROM TERMINATING RACK IN SIM SERVER ROOM TO FLOORBOX LOCATION. SEE DETAIL SHEET E-502 FOR TERMINATION DETAILS.

SYMBOL — GENERAL

Symbol	Description
X	SHEET KEYNOTE X = KEYNOTE NUMBER

SYMBOL — LIGHTING

Symbol	Description
A LP1-2b	STRIP LIGHTING FIXTURE. "LP1"=PANELBOARD, "2"=CIRCUIT NUMBER, "b"=SWITCH LETTER, "A"=FIXTURE TYPE LETTER. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
A LP1-2b	LIGHTING FIXTURE. "LP1"=PANELBOARD, "2"=CIRCUIT NUMBER, "b"=SWITCH LETTER, "A"=FIXTURE TYPE LETTER.
A LP1-2b	LIGHTING FIXTURE. "LP1"=PANELBOARD, "2"=CIRCUIT NUMBER, "b"=SWITCH LETTER, "A"=FIXTURE TYPE LETTER. SHADING DENOTES FIXTURE IS PROVIDED WITH EMERGENCY BATTERY BALLAST/DRIVER CONNECTED TO UNSWITCHED SENSING CIRCUIT WIRE.
A LP1-2	LIGHTING FIXTURE. "LP1"=PANELBOARD, "2"=CIRCUIT NUMBER, "A"=FIXTURE TYPE LETTER. FULL SHADING DENOTES FIXTURE IS UNSWITCHED AND PROVIDED WITH EMERGENCY BATTERY BALLAST/DRIVER.
	PENDANT MOUNTED LIGHTING FIXTURE.
	PENDANT MOUNTED STRIP LIGHTING FIXTURE
	CEILING MOUNTED LIGHTING FIXTURE.
	WALL MOUNTED LIGHTING FIXTURE.
	SITE LIGHTING ASSEMBLY.
	TWIN SITE LIGHTING ASSEMBLY.
PC	PHOTOCELL. COMPATIBLE WITH LIGHTING CONTROL PANEL.
	CEILING MOUNTED EXIT SIGN, DRAWINGS INDICATE SINGLE OR DOUBLE FACED WITH DIRECTIONAL ARROWS..
	WALL MOUNTED EXIT SIGN, DRAWINGS INDICATE SINGLE OR DOUBLE FACED WITH DIRECTIONAL ARROWS. MOUNT 8'-0"AFF.
W LP1-12	EMERGENCY LIGHTING MASTER UNIT, BATTERY POWERED. CONNECT TO UNSWITCHED PORTION OF LOCAL LIGHTING CIRCUIT. LP1 DENOTES PANELBOARD DESIGNATION. 12 DENOTES CIRCUIT NUMBER. W DENOTES FIXTURE TYPE LETTER.
	WALL SWITCH DUAL TECH, LOW VOLTAGE VACANCY SENSOR
D	WALL SWITCH DUAL TECH, LOW VOLTAGE VACANCY SENSOR - WITH DIMMING
OS	WALL SWITCH DUAL TECH, LOW VOLTAGE OCCUPANCY SENSOR
	CEILING MOUNTED, DUAL TECH LOW VOLTAGE OCCUPANCY SENSOR
	CEILING MOUNTED, LOW VOLTAGE ULTRASONIC CORRIDOR OCCUPANCY SENSOR
	CEILING MOUNTED DUAL TECH LOW VOLTAGE VACANCY SENSOR
R	DENOTES CEILING SENSOR WITH AUXILARY RELAY FOR TIE IN/ INTERFACE WITH VAV BOX.
P	SMART POWER PACK, EQUAL TO nLIGHT. - PROVIDE WITH DIMMING
LCP	LIGHTING CONTROL CONTACTOR PANEL.
DC	DOOR CONTACT LIGHT SWITCH.
LVS	LOW VOLTAGE SWITCH

SYMBOL — PHASING

Symbol	Description
	NEW CONSTRUCTION
	DEMOLITION
	EXISTING TO REMAIN
RR RR RR	REMOVE AND RELOCATE
ER ER ER	EXISTING RELOCATED

GENERAL NOTES

1. THIS IS A STANDARD LEGEND SHEET. NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON DRAWINGS.
2. MOUNTING DEVICES AND EQUIPMENT PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
3. ENCLOSURES SHALL BE NEMA 1 UNLESS OTHERWISE NOTED. 3R=NEMA 3R, 4X=NEMA 4X, WP=WEATHERPROOF, AND XP=EXPLOSION PROOF.
4. PROVIDE GROUND CONDUCTOR FOR ALL BRANCH, FEED, AND EQUIPMENT CIRCUITS SIZED PER NEC, UNLESS OTHERWISE INDICATED.
5. WHERE MULTIPLE CIRCUITS ARE COMBINED IN A SINGLE RACEWAY THE CONTRACTOR SHALL DETERMINE THE EXACT NUMBER OF CONDUCTORS, ROUTING, AND SIZE OF THE RACEWAY. SIZE THE WIRE AMPACITY IN ACCORDANCE WITH THE NEC.
6. CONTRACTOR SHALL COORDINATE ALL CONDUIT PENETRATIONS AND PROVIDE CONDUIT SEALS IN HAZARDOUS LOCATION. PENETRATION SEALS, EXPANSION/VIBRATION ISOLATION FITTINGS AS APPLICABLE.
7. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN AIR BARRIER INTEGRITY FOR ELECTRICAL RACEWAY PENETRATION.
8. ALL WIRING FOR LIGHTING AND POWER CIRCUITS SHALL BE NO. 12 AWG MINIMUM.
9. ALL WIRING FOR CONTROL SHALL BE NO. 14 MINIMUM.
10. ALL CONDUIT SHALL BE MINIMUM 3/4" FOR POWER, MINIMUM 1" FOR DATA/COMM.
11. THE WIRE SIZE FROM A 20 AMPERE, SINGLE POLE, 120 VOLT CIRCUIT BREAKER MOUNTED IN A LIGHTING PANELBOARD TO THE LOAD SHALL BE AS FOLLOWS: NO. 12 AWG WIRE UP TO 100 FEET RUN; NO. 10 AWG WIRE; 101 FEET RUN UP TO 200 FEET RUN; NO. 8 AWG WIRE 201 FEET RUN UP TO 300 FEET RUN.
12. SELF CONTAINED UNIT EQUIPMENT SERVING EXIT AND EGRESS LIGHTING SYSTEMS SHALL BE CONNECTED TO THE UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT IN COMPLIANCE WITH NEC 700.12 (F).
13. CONTRACTOR SHALL COMPLY WITH ALL CONTRACT REQUIREMENTS AND ALL APPLICABLE CODES, LAWS, AND REGULATIONS, INCLUDING NATIONAL ELECTRICAL CODE, OSHA, AND NATIONAL ELECTRICAL SAFETY CODE.
14. THIS SPECIFICATION AND THE DRAWINGS ARE NOT INTENDED TO SHOW ALL DETAILS, WIRING, BOXES, COVERS, FITTINGS, AND SPECIAL CONSTRUCTION WHICH MAY BE NECESSARY OR REQUIRED. THIS CONTRACTOR SHALL FURNISH, INSTALL, AND CONNECT ALL REQUIRED WORK IN ORDER TO MAKE THE INSTALLATION COMPLETE AS INDICATED BY THIS SPECIFICATION AND THE DRAWINGS. "PROVIDE" SHALL MEAN FURNISH AND INSTALL COMPLETE. "APPROVED" SHALL MEAN APPROVED BY OWNER'S REPRESENTATIVE. "DIRECTED" SHALL MEAN DIRECTED BY THE OWNER'S REPRESENTATIVE.
15. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW EXACT ROUTES OF WIRING AND EXACT LOCATION OF EQUIPMENT. CONTRACTOR SHALL BECOME FAMILIAR WITH JOB CONDITIONS AND SHALL ARRANGE ALL WORK TO AVOID CONFLICTS. ALL FINAL LOCATIONS OF NEW CONDUITS, OUTLETS, AND EQUIPMENT SHALL BE SUBJECT TO APPROVAL.
16. PROVIDE ALL ITEMS INDICATED ON DRAWINGS AND REQUIRED BY SPECIFICATIONS, INCLUDING: ALL SUPPORTS, HARDWARE AND ACCESSORIES, BRANCH CIRCUIT WIRING, AND DEVICES.
17. PRIOR TO EXECUTION OF THIS CONTRACT, THIS CONTRACTOR SHALL HAVE VISITED THE SITE (BY APPOINTMENT) AND SHALL HAVE EXAMINED ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK. SUBMISSION OF A BID SHALL BE CONSIDERED INDICATIVE THAT THIS CONTRACTOR HAS VISITED THE SITE AND HAS DETERMINED ALL EXISTING CONDITIONS WHICH MAY AFFECT THE CONTRACT WORK AND HAS INCLUDED ALL COSTS RELATED TO SITE CONDITIONS IN THE AMOUNT BID.
18. PROVIDE ARC FLASH LABELING IAW NEC 110.16.
19. ALL LISTED MATERIALS AND EQUIPMENT ARE INDICATIVE OF COMPLETE AND WHOLE UNITS (UNLESS SPECIFICALLY INDICATED TO THE CONTRARY) AND SHALL BE FURNISHED AS SUCH.
20. ALL CONSTRUCTION UNDER THIS CONTRACT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE. THE CONTRACTOR SHALL REMOVE AND REPLACE ALL WORK WHICH IS NOT INSTALLED AS APPROVED.
21. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHALL BE NEW, APPROVED QUALITY, SPECIFICATION GRADE, AND LISTED BY UNDERWRITER'S LABORATORIES OF NATIONAL BOARD OF FIRE UNDERWRITERS.
22. ALL CUTTING REQUIRED FOR THE INSTALLATION OF ELECTRICAL CONSTRUCTION UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN SUCH MANNER AS NOT TO CAUSE STRUCTURAL OR ARCHITECTURAL DAMAGE TO BUILDING OR LEAVE UNSIGHTLY SURFACES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING TO PROVIDE A NEAT AND FINISHED SURFACE EQUAL TO SURROUNDING UNDISTURBED SURFACES WHEREVER CUTTING, PATCHING, DAMAGE OR REMOVAL OF EQUIPMENT IS PERFORMED UNDER THIS CONTRACT. ALL PATCHING AND RESTORING OF SURFACES SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE SUBJECT TO APPROVAL.
23. PROVIDE ROUGH-IN CONNECTIONS FOR ALL OFOI/OFCI EQUIPMENT INCLUDING BUT NOT LIMITED TO PRINTER, COPIER, FAX MACHINES, INTERCOM, CAMERAS, PROJECTORS, PODIUMS, SMARTBOARDS, FLAT SCREEN MONITORS, FURNITURE SYSTEMS, AND SECURITY SYSTEMS.
24. THE ELECTRICAL CONTRACTOR SHALL REVIEW REQUIREMENTS FOR THE INSTALLATION OF ELECTRICAL PORTIONS OF WORK INDICATED ON THE CONSTRUCTION DOCUMENTS OF OTHER TRADES AND INCLUDE REQUIREMENTS IN BIDDING THIS CONTRACT.

SYMBOL — SINGLE-LINE DIAGRAM

Symbol	Description
	SINGLE LINE DIAGRAM THERMAL-MAGNETIC CIRCUIT BREAKER.
	SINGLE LINE DIAGRAM COMBINATION MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR (MCP) AND THERMAL OVERLOAD (OL).
	SINGLE LINE DIAGRAM NON-FUSED DISCONNECT SWITCH.
	SINGLE LINE DIAGRAM FUSED DISCONNECT SWITCH.
	SINGLE LINE DIAGRAM TRANSFORMER
VFD	VARIABLE FREQUENCY DRIVE WITH INTERNAL OVERCURRENT DISCONNECT DEVICE.
	WOOD UTILITY POLE
	ATS
	GROUNDING ELECTRODE
G	GENERATOR
M	SINGLE LINE DIAGRAM METER

ABBREVIATIONS

A	AMPS	XFMR	TRANSFORMER
AFF	ABOVE FINISHED FLOOR	XP	EXPLOSION PROOF
AFG	ABOVE FINISHED GROUND		
AHU	AIR HANDLING UNIT		
AIC	CURRENT INTERRUPTER CAPACITY		
ATS	AUTOMATIC TRANSFER SWITCH		
AWG	AMERICAN WIRE GAUGE		
BFC	BELOW FINISHED CEILING		
BRKR	CIRCUIT BREAKER		
C	CONDUIT		
CB	CIRCUIT BREAKER		
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED		
CPR	COPIER		
CRAC	COMPUTER ROOM AIR CONDITIONER		
CRCU	COMPUTER ROOM CONDENSING UNIT		
CT	CONTROL TRANSFORMERS		
DB	DIRECT BURIED		
DIA	DIAMETER		
DP	DISTRIBUTION PANEL		
DWG	DRAWING		
EGC	EQUIPMENT GROUNDING CONDUCTOR		
EMT	ELECTRICAL METALLIC TUBING		
ER	EXISTING RELOCATED		
ERU	ENERGY RECOVERY UNIT		
ETR	EXISTING TO REMAIN		
EWC	ELECTRIC WATER COOLER		
EXST	EXISTING		
FB	FLOOR BOX		
GEC	GROUNDING ELECTRODE CONDUCTOR		
GFP	GROUND FAULT PROTECTION		
GND	GROUND		
GRD	GROUND		
GRS	GALVANIZED RIGID STEEL		
IAW	IN ACCORDANCE WITH		
IDS	INTRUSION DETECTION SYSTEM		
IMC	INTERMEDIATE METALLIC CONDUIT		
KVA	KILO VOLT AMPS		
KW	KILO WATT		
LCP	LIGHTING CONTROL PANEL		
LED	LIGHT EMITTING DIODE		
LP	LIGHTING PANEL		
MC	MECHANICAL CONTRACTOR		
MCP	MOTOR CIRCUIT PROTECTOR		
MCS	MOLDED CASE SWITCH		
MEP	MECHANICAL EQUIPMENT PANEL		
MIN	MINIMUM		
MLO	MAIN LUG ONLY		
MTD	MOUNTED		
MUA	MAKE UP AIR UNIT		
NEC	NATIONAL ELECTRIC CODE		
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		
NESC	NATIONAL ELECTRICAL SAFETY CODE		
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
NIC	NOT IN CONTRACT		
NO	NUMBER		
NP	NIPRNET SENDER		
NS	SIPRNET SENDER		
NTS	NOT TO SCALE		
OEM	ORIGINAL EQUIPMENT MANUFACTURER		
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		
OFOI	OWNER FURNISHED OWNER INSTALLED		
OL	THERMAL OVERLOAD		
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		
OSP	OUTSIDE PLANT		
P	POLE		
PH	PHASE		
PIV	POST INDICATOR VALVE		
PP	POWER PANEL		
PSI	POUNDS PER SQUARE INCH		
PT	POTENTIAL TRANSFORMERS		
PVC	POLYVINYL CHLORIDE		
QTY	QUANTITY		
RCD	RESIDUAL CURRENT DEVICE		
RECEPT	RECEPTACLE		
RR	REMOVE AND RELOCATE		
RGS	RIGID GALVANIZED STEEL CONDUIT		
RMC	RIGID METAL CONDUIT		
RS	RIGID STEEL		
SCH	SCHEDULE		
SDP	STANDBY DISTRIBUTION PANEL		
SGP	SINGLE GROUND POINT		
SLP	STANDBY LIGHTING PANEL		
SP	SIPRNET PRINTER		
SPD	SURGE PROTECTION DEVICE		
SPP	STANDBY POWER PANEL		
SS	SIPRNET SENDER		
SW	SWITCHED		
T	TRANSFORMER		
TV	TELEVISION		
TW	TEST WELL		
TX	TRANSFORMER		
TYP	TYPICAL		
U/G	UNDERGROUND		
UON	UNLESS OTHERWISE NOTED		
V	VOLTS		
VAV	VARIABLE AIR VOLUME		
VDC	VOLTS DIRECT CURRENT		
VFD	VARIABLE FREQUENCY DRIVE		
W	WATTS OR WIRE		
WP	WEATHERPROOF		

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
JACKSONVILLE, NC

MCB CAMP LEJEUNE
JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - NOTES, SYMBOLS, AND ABBREVIATIONS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

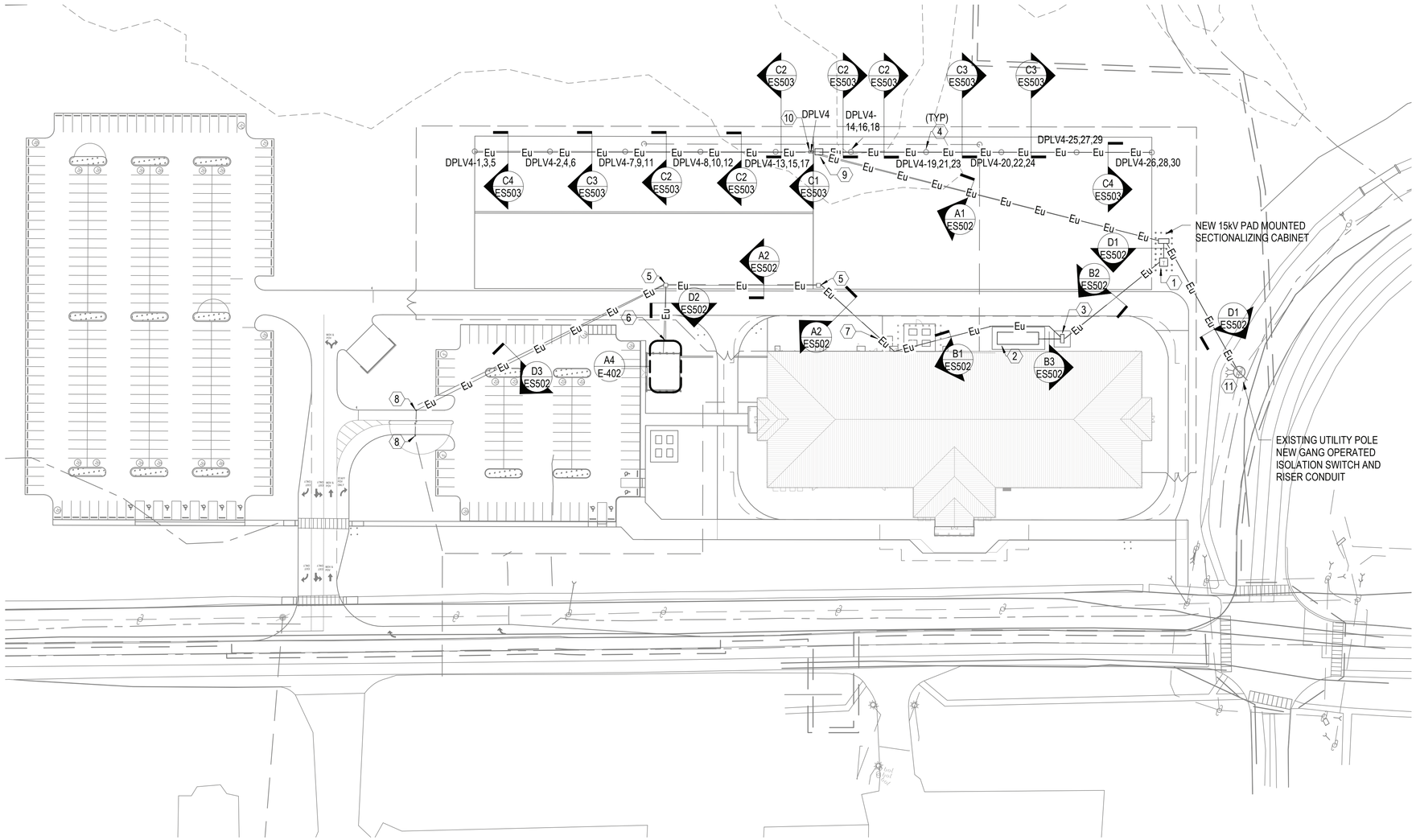
SHEET OF

E-001

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:41:52 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



ELECTRICAL - SITE UTILITY PLAN

SCALE: 1" = 60'-0"

GENERAL NOTES

1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2 DEPTH OF DUCTBANKS SHALL BE COORDINATED WITH OTHER UTILITIES.

KEYNOTES

1 12.47kV-480Y/277V, 3PH, 4W, 60Hz, OIL FILLED UTILITY TRANSFORMER, OVER A PRECAST TRANSFORMER PAD. FOR ADDITIONAL INFORMATION SEE SPECIFICATIONS AND DRAWING E-602.
2 480Y/277V, DIESEL GENERATOR WITH SUBBASE FUEL TANK AND CONCRETE PAD. SEE ADDITIONAL INFORMATION ON DRAWING E-502. FOR ADDITIONAL INFORMATION SEE SPECIFICATIONS AND DRAWINGS E-502 / E-602.
3 AUTOMATIC TRANSFER SWITCH EQUIPPED WITH MAINTENANCE BYPASS SWITCH. FOR ADDITIONAL INFORMATION SEE SPECFICATIONS AND DRAWING E-602.
4 POWER PEDESTAL WITH HEAVY-DUTY NEMA 4X STAINLESS STEEL AND FUSED DISCONNECT SWITCH. COORDINATE FINAL POWER LOCATIONS WITH FINAL PEDESTAL LOCATION.
5 TYPE 4 TRAFFIC/AIRFIELD RATED HANDHOLE FOR POWER. COORDINATE HANDHOLE LOCATIONS WITH FINAL POWER LOCATIONS. SEE DETAIL UG-5 ON ES505.
6 CONTRACTOR TO COORDINATE FINAL TERMINATION POINT FOR ELECTRICAL CONNECTIONS BEFORE RUNNING CONDUIT.
7 RUN CHILLER CONDUITS UNDER ELECTRICAL ROOM SLAB AND STUB UP AT SWITCHBOARD LOCATION. SEE DRAWING E-401 FOR SWITCHBOARD LOCATION.
8 TYPE 5 COMPOSITE / FIBERGLASS, NON TRAFFIC RATED HANDHOLE FOR POWER AND COMM TO VEHICLE LIFT GATES. COORDINATE HANDHOLE LOCATION WITH FINAL POWER LOCATIONS FOR LIFT GATES. SEE DETAIL UG-6 ON ES505.
9 12.47kV-208Y/120V, 3PH, 4W, 60Hz, OIL FILLED UTILITY TRANSFORMER, OVER A PRECAST TRANSFORMER PAD TO SERVE DISTRIBUTION PANELBOARD FEEDING POWER PEDESTALS. FOR ADDITIONAL INFORMATION SEE SPECIFICATIONS AND DRAWING E-602.
10 800A, NEMA 4X STAINLESS STEEL, 208/120V DISTRIBUTION PANELBOARD FOR POWER PEDESTAL CONNECTIONS.
11 SEE NAVFAC STANDARD OVERHEAD TEMPLATES ON SHEET ES504.

0 30'-0" 60'-0" 120'-0"
SCALE: 0'-1" = 60'-0"

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ W.M. Jordan COMPANY ~A JOINT VENTURE~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE
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DES SD DRW LAK CHK YPS
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CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE UTILITY PLAN

SCALE: AS NOTED
EPROJECT NO.: 15908892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
ES101

DP2 SUBMISSION – P1338 BUILDING -,PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:32 PM

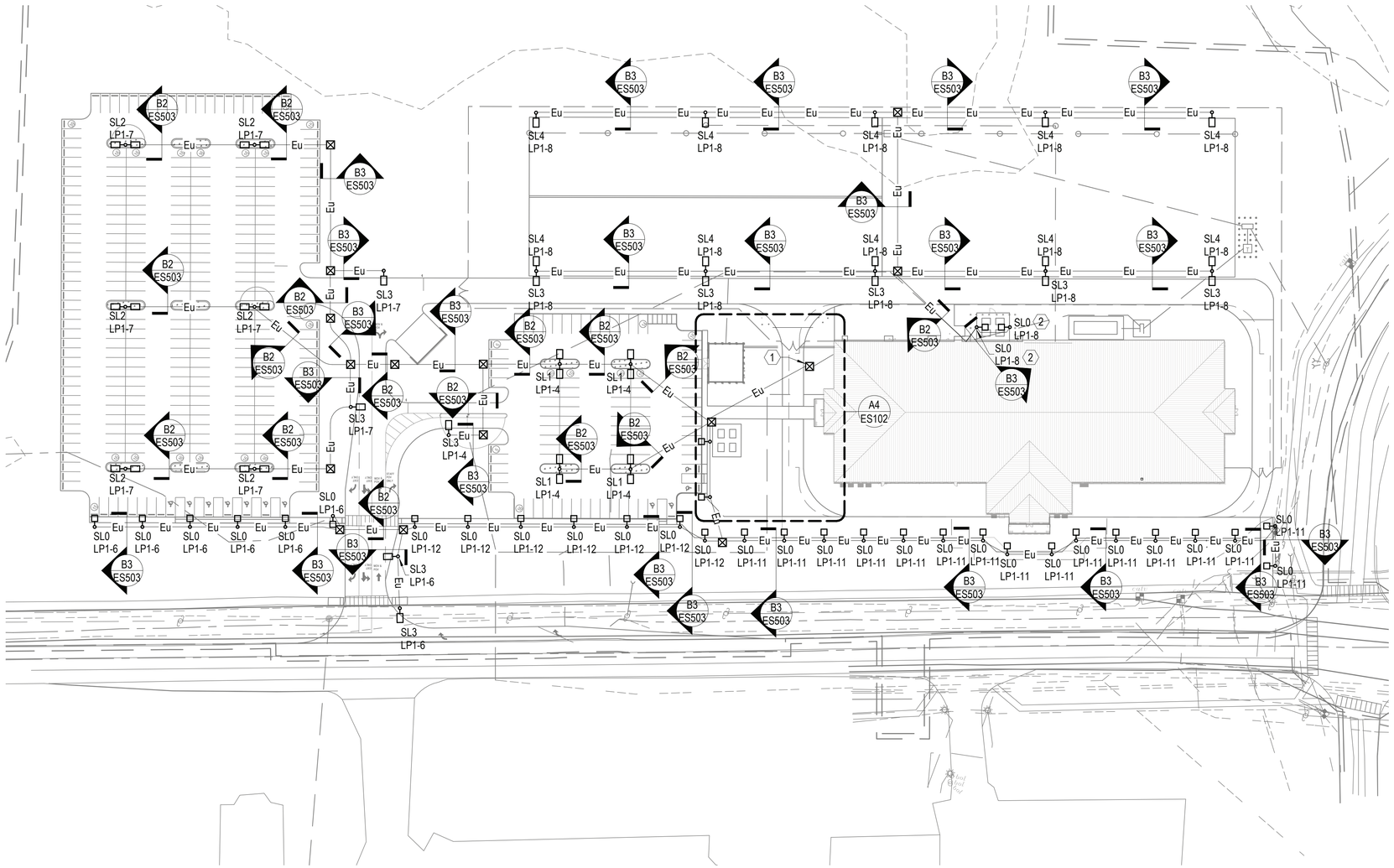
FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

GENERAL NOTES

1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2 SEE SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.
3 DUCTBANKS UNDER PAVEMENT SHALL BE CONCRETE ENCASED.

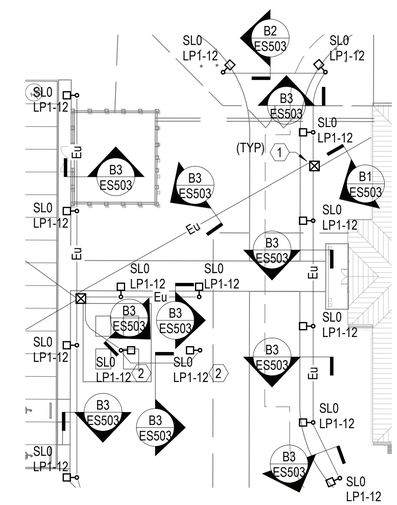
KEYNOTES

1 SITE LIGHTING HAND HOLE, SIZE PER NEC.
2 MOUNT FIXTURE 8'-0" ABOVE FINISHED GRADE.



ELECTRICAL - SITE LIGHTING PLAN

SCALE: 1" = 60'-0"



A4 ELECTRICAL - SITE LIGHTING PLAN

SCALE: 1" = 30'-0" (ES102)

0 30'-0" 60'-0" 120'-0"
SCALE: 0'-1" = 60'-0"

N

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

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FIRE PROTECTION

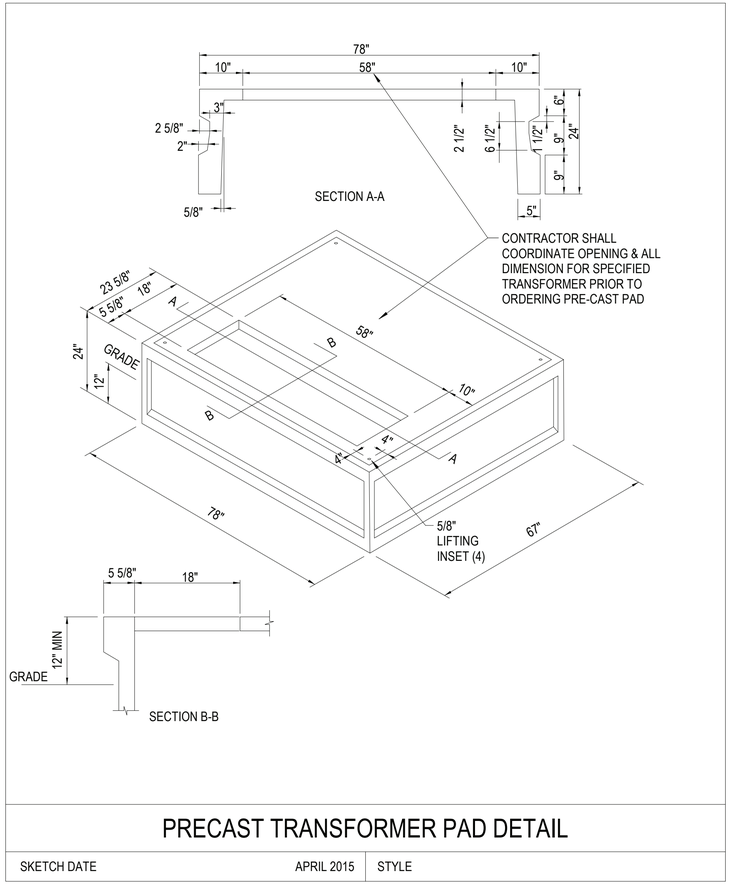
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE LIGHTING PLAN

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
ES102

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

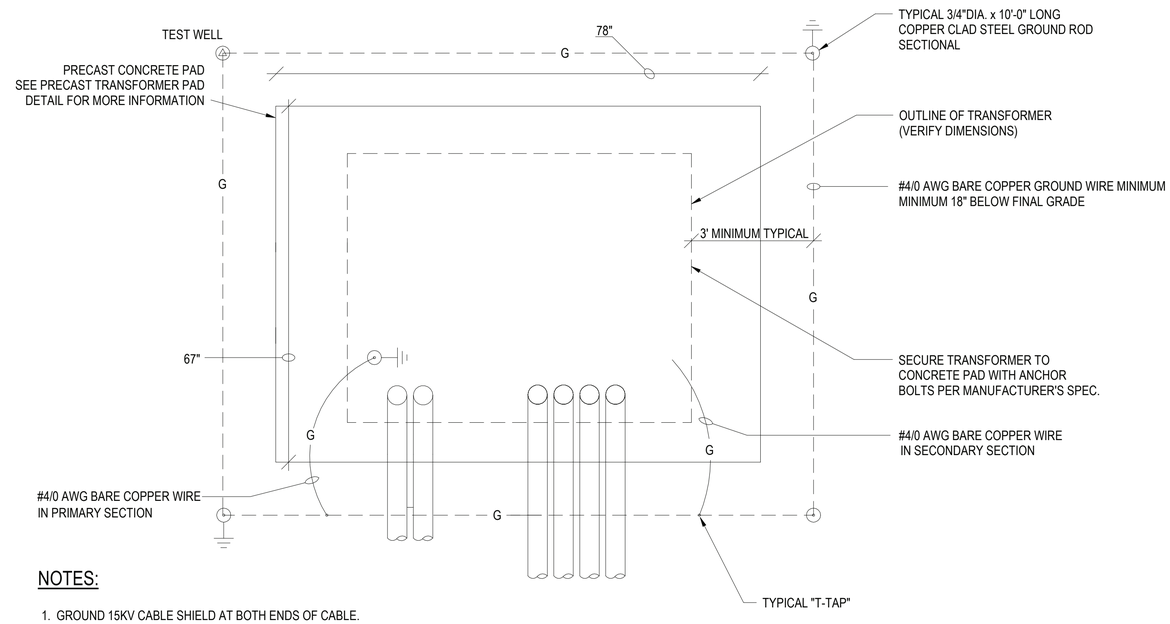
PLOTTED: 6/10/2021 5:44:39 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



PRECAST TRANSFORMER PAD DETAIL

SKETCH DATE	APRIL 2015	STYLE

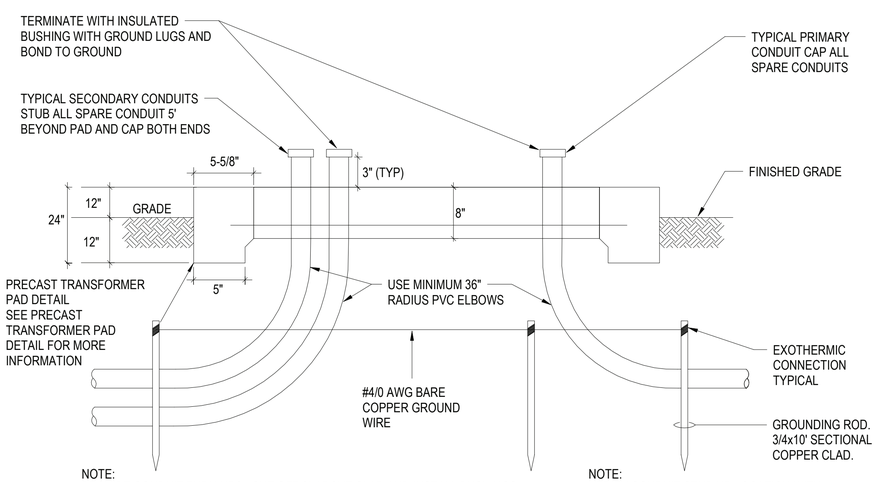


NOTES:

1. GROUND 15KV CABLE SHIELD AT BOTH ENDS OF CABLE.
2. FINAL CONNECTIONS TO EXISTING PRIMARY SYSTEM SHALL BE MADE BY CONTRACTOR AFTER INSPECTION BY THE BASE EXTERIOR ELECTRICAL SHOP. ALL MATERIALS REQUIRED SHALL BE PROVIDED BY CONTRACTOR.
3. PROVIDE WINDOWS IN PAD PER TRANSFORMER MANUFACTURER'S RECOMMENDATIONS.

PRECAST TRANSFORMER PAD GROUNDING DETAIL

SCALE: 12" = 1'-0" — C3

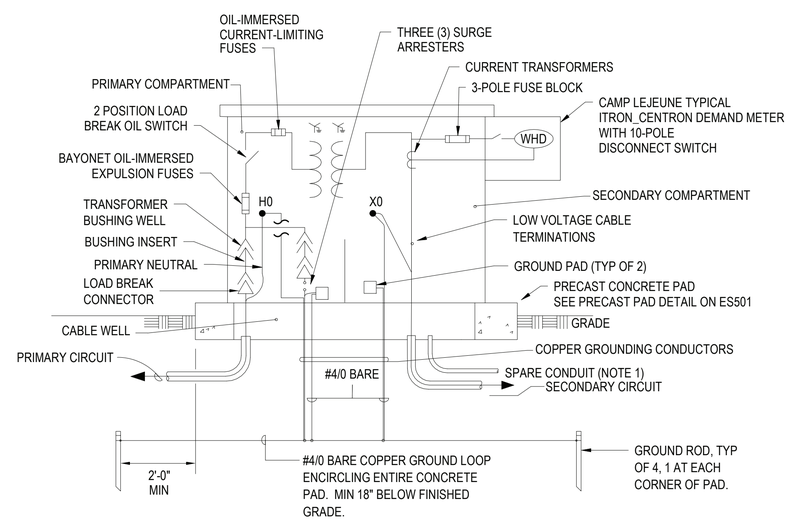


NOTE:
PROVIDE CONDUIT TURN-UPS. CUT OFF 3" ABOVE SLAB AND INSTALL BUSHINGS. SEAL VOIDS AROUND CONDUIT WITH WATER AND OIL RESISTANT CAULKING OR SEALANT.

NOTE:
VERIFY CONDUIT STUB-UP LOCATION WITH SHOP DRAWINGS

PRECAST TRANSFORMER PAD GROUNDING SECTION

SCALE: 12" = 1'-0" — A1



NOTE 1:PROVIDE ONE 2" SPARE CONDUIT STUBBED-OUT FIVE FEET FROM PAD. COORDINATE WITH ACTIVITY FOR ADDITIONAL METERING INPUT (GAS, STEAM OR WATER SYSTEMS).

PAD MOUNTED TRANSFORMER DETAIL

SCALE: 12" = 1'-0" — A3

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD | DRW LAK | CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - SITE DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

ES501

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:40 PM

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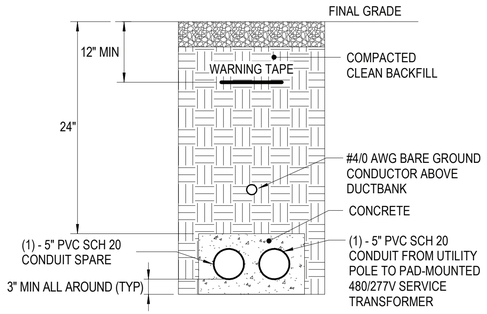
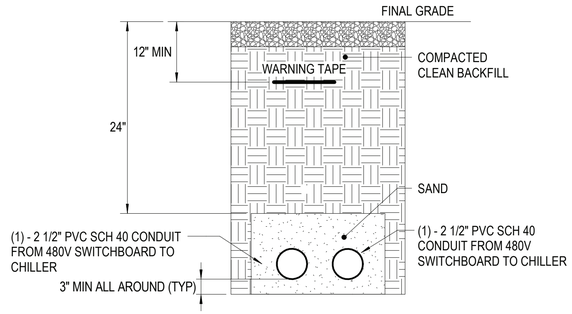


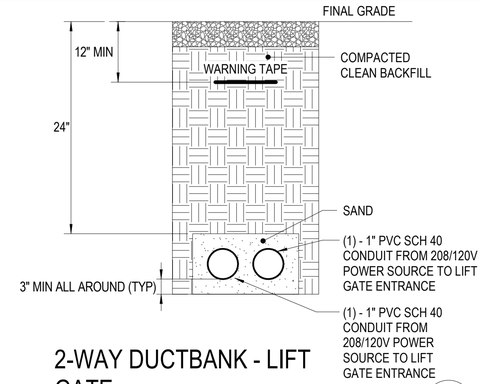
2-WAY CONCRETE ENCASED DUCTBANK

SCALE:NTS ES101 D1



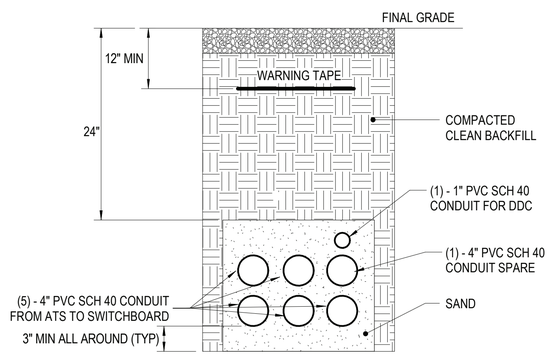
2-WAY DUCTBANK - CHILLER

SCALE:NTS ES101 D2



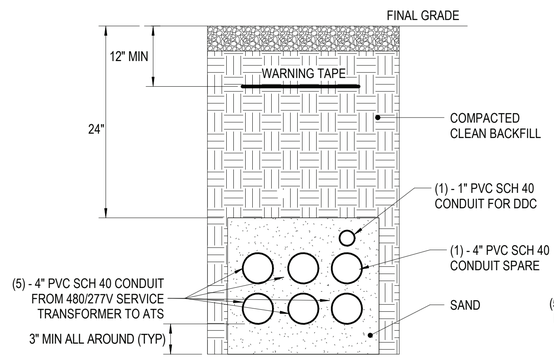
2-WAY DUCTBANK - LIFT GATE

SCALE:NTS ES101 D3



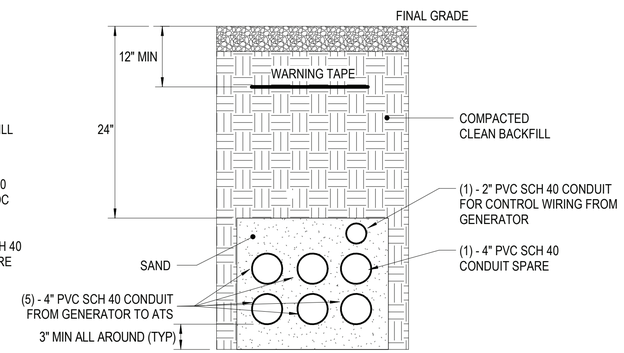
7-WAY DUCTBANK

SCALE:NTS ES101 B1



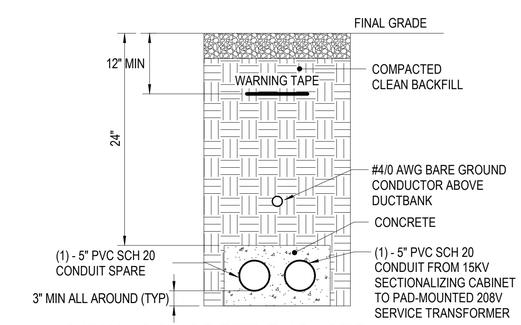
7-WAY DUCTBANK (A)

SCALE:NTS ES101 B2



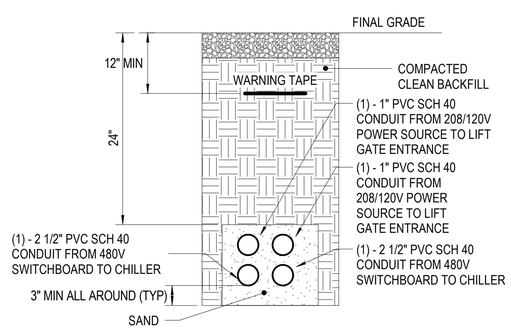
7-WAY DUCTBANK - GENERATOR

SCALE:NTS ES101 B3



2-WAY CONCRETE ENCASED DUCTBANK (B)

SCALE:1 : 15 ES101 A1



5-WAY DUCTBANK(B)

SCALE:1 : 15 ES101 A2

STM	DESCRIPTION	DATE	APPR

NAVFAC

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100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108 A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD DRW LAK CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC
MCB CAMP LEJEUNE JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

ES502

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:41 PM

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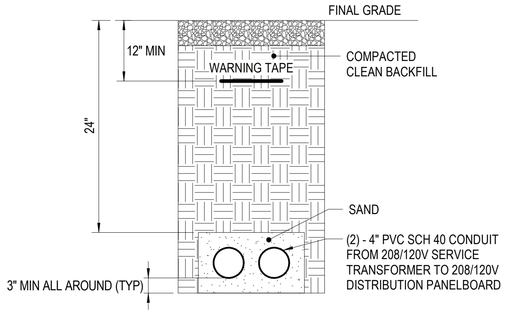
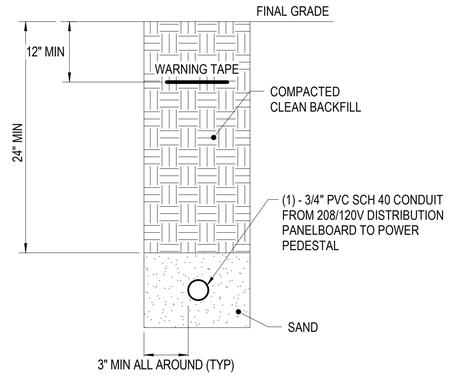


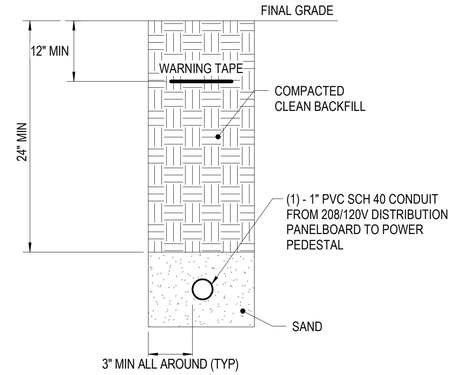
2-WAY DUCTBANK (A)

SCALE:NTS ES101 C1



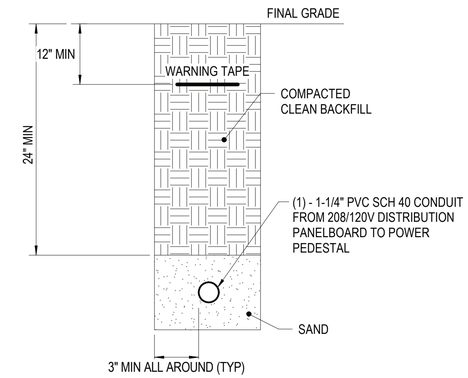
1-WAY DUCTBANK

SCALE:NTS ES101 C2



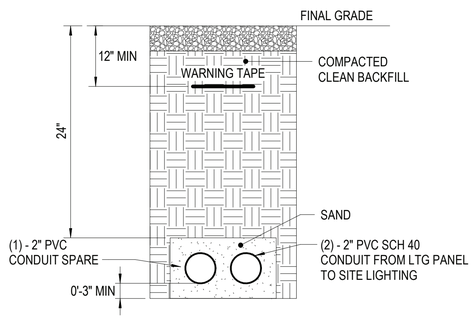
1-WAY DUCTBANK(A)

SCALE:NTS ES101 C3



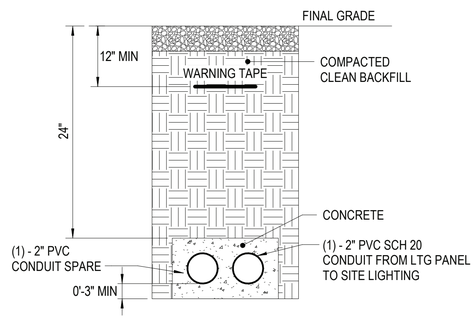
1-WAY DUCTBANK(B)

SCALE:NTS ES101 C4



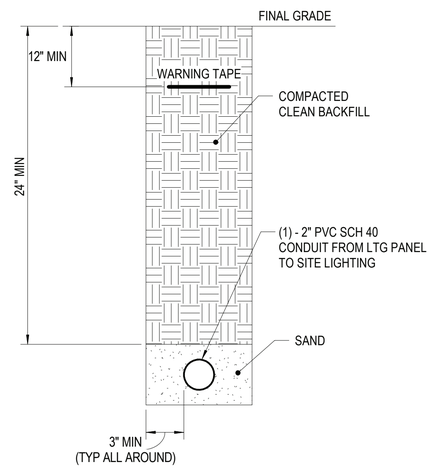
2-WAY DUCTBANK - SITE LIGHTING

SCALE:NTS ES102 B1



2-WAY CONCRETE ENCASED DUCTBANK - SITE LIGHTING

SCALE:NTS ES102 B2



1-WAY DUCTBANK - SITE LIGHTING

SCALE:NTS ES102 B3

SYM	DESCRIPTION	DATE	APPR.

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Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

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FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
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NAVAL FACILITIES ENGINEERING COMMAND
JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - SITE DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

ES503

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:43 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

POLE LINE MATERIAL LIST

1 FLAT STEEL BRACE (TWO PIECES)
2 MACHINE BOLT, 3/8" X LENGTH NEEDED WITH WASHER, NUT AND LOCKWASHER
3 8' WOOD CROSSARM WITH CROSS SECTION DIMENSIONS OF 3 1/2" X 4 1/2"
4 MACHINE BOLT, 5/8" X LENGTH NEEDED WITH WASHER, NUT AND LOCKWASHER
5 TIMBER CONNECTOR
6 LAGSCREW, 1/2" X 4"
7 ANGLE STEEL BRACE (TWO PIECES)
8 MACHINE BOLT, 1/2" X LENGTH NEEDED, WITH WASHER, NUT & LOCKWASHER
9 DEADEND BOX
10 STEEL PIN
11 PIN INSULATOR
12 GRID GAIN, USED ONLY WHEN THERE IS NO POLE GAIN
13 ANGLE STEEL BRACE (ONE PIECE)
14 10' WOOD CROSSARM WITH CROSS SECTION DIMENSIONS OF 3 1/2" X 4 1/2"
15 5/8" EYE NUT
16 5/8" EYE BOLT, LENGTH AS NEEDED, WITH WASHER, NUT & LOCKWASHER
17 EXTENSION LINK
18 BELL TYPE SUSPENSION INSULATOR WITH CONNECTING HARDWARE
19 STRAIN CLAMP
20 STEEL ANGLE PIN
21 CLUSTER MOUNTING BRACKET, STEEL
22 TRANSFORMER GROUNDING CONNECTION
23 STIRRUP
24 SECONDARY LEAD SUPPORT BRACKET
25 ADAPTER PLATE FOR CLUSTER MOUNTING
26 CLEVIS BRACKET FOR SPOOL INSULATOR
27 SPOOL INSULATOR
28 U BOLT CLAMP
29 PREFORMED GUY GRIP
30 GUY HOOK
31 GUY STRAIN INSULATOR
32 GUY WIRE, SIZE AS SPECIFIED
33 #4 WP CU. SOFT DRAWN GROUND WIRE
34 GROUND CLAMP
35 CONDUIT COUPLING
36 CONDUIT BEND
37 INSULATED BUSHING
38 PERFORATED STRAPPING, 1-1/2" WIDE
39 HOT LINE CLAMP
40 GANG OPERATED ISOLATION SWITCH, AS SPECIFIED
41 SURGE ARRESTER, AS SPECIFIED
42 POLE TOP PIN (RIDGE PIN) - 24 INCHES LONG
43 CROSSARM ANGLE PIN
44 ANGLE POLE TOP PIN
45 WEATHERPROOF SOFT DRAWN WIRE-SIZE
(a) T0 MATCH OR EXCEED AMPACITY OF CONNECTING CABLE, OR
(b) AT 125% OF TRANSFORMER FULL LOAD CURRENT, BUT NOT LESS THAN NO. 4 AWG

POLE LINE MATERIAL LIST

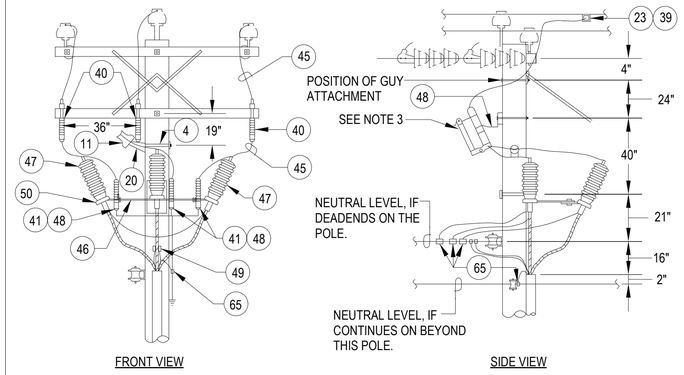
SKETCH DATE: JUNE 2002 STYLE: OH-1.5

POLE LINE MATERIAL LIST

46 TRI-MOUNT BRACKET
47 TERMINATOR
48 MOUNTING BRACKET
49 CABLE GRIP HANGER
50 HOSE CLAMP
51 STUD, 3/4" X 1-3/4"
52 LINE POST INSULATOR
53 TRIPLE INSULATOR BRACKET
54 ANGLE CLAMP
55 INSULATOR, LINE POST CLAMP
56 4' CROSSARM
57 CROSSARM GAIN BRACKET
58 PULLEY BRACKET
59 WEDGE CLAMP
60 MIDSPAN SERVICE CLAMP
61 STUD, 7"
62 SADDLE, ANGLE
63 SADDLE CROSSARM
64 FITTING, POLE TOP
65 CONNECTOR
66 SUSPENSION CLAMP
67 TIE, SERVICE CABLE
68 54" FIBERGLASS STRAIN INSULATOR
69 PVC RISER SHIELD
70 PVC EXTENSION SHIELD
71 PVC BACK PLATE
72 8' WOOD CROSSARM WITH CROSS SECTION DIMENSIONS OF 4 3/4" X 5 3/4"
73 10' WOOD CROSSARM WITH CROSS SECTION DIMENSIONS OF 4 3/4" X 5 3/4"
74 BACK-UP CURRENT LIMITING FUSE

POLE LINE MATERIAL LIST

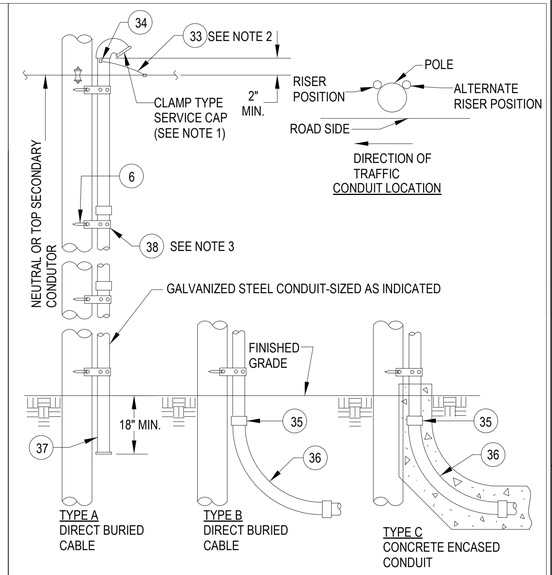
SKETCH DATE: JUNE 2002 STYLE: OH1.5A



NOTES
1. MODIFY POSITION OF TERMINAL ON DEADENDS TO BE UNDER THE CONDUCTORS AND THE CUTOUTS ON THE BACKSIDE OF CROSSARM. POLE RISER MUST BE OFFSET TO CLEAR NEUTRAL CLEVIS BRACKET.
2. CONNECT BOTTOM LEAD OF ARRESTER DIRECTLY TO POLE GROUND. INTERCONNECT CABLE INSULATION SHIELD DRAIN WIRES AND CONDUIT RISER GROUND TO MULTI-GROUNDED NEUTRAL (IF EXISTING) AND POLE GROUND.
3. PROVIDE GANG OPERATED ISOLATION SWITCH. COORDINATE WITH SPECIFIC DESIGN REQUIREMENTS PROVIDED.

U.G. TERMINAL (0-25kV)

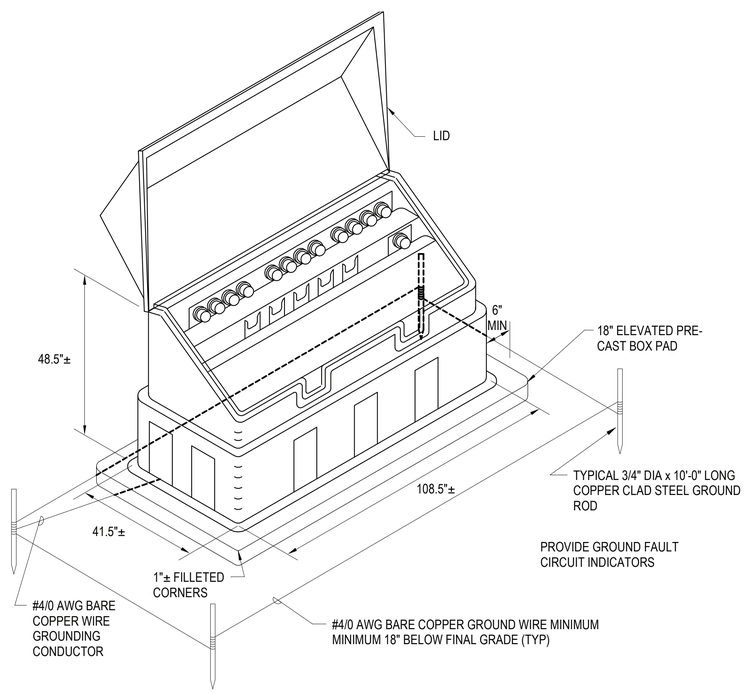
SKETCH DATE: JUNE 2002 STYLE: OH-31



NOTES
1. ON CONDUIT RISER FOR PRIMARY CIRCUITS, ELIMINATE SERVICE CAP AND PROVIDE GROUNDING TYPE INSULATON BUSHING.
2. BOND CONDUIT TO POLE GROUND AND SYSTEM NEUTRAL (IF EXISTING). SEE GROUNDING NOTES ON SKETCH OH-41.
3. SPACE STRAPS AT MAXIMUM OF 4' INTERVALS.

CONDUIT RISER (SIZE & TYPE AS INDICATED)

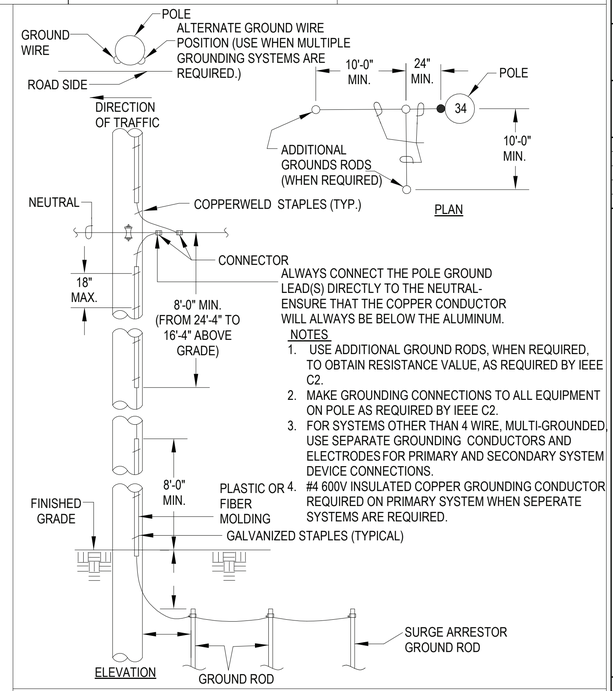
SKETCH DATE: JUNE 2002 STYLE: OH-35



TYPICAL SECTIONALIZING CABINET

SCALE:NTS

A2



ALWAYS CONNECT THE POLE GROUND LEAD(S) DIRECTLY TO THE NEUTRAL-ENSURE THAT THE COPPER CONDUCTOR WILL ALWAYS BE BELOW THE ALUMINUM.

NOTES.
1. USE ADDITIONAL GROUND RODS, WHEN REQUIRED, TO OBTAIN RESISTANCE VALUE, AS REQUIRED BY IEEE C2.
2. MAKE GROUNDING CONNECTIONS TO ALL EQUIPMENT ON POLE AS REQUIRED BY IEEE C2.
3. FOR SYSTEMS OTHER THAN 4 WIRE, MULTI-GROUNDED, USE SEPARATE GROUNDING CONDUCTORS AND ELECTRODES FOR PRIMARY AND SECONDARY SYSTEM DEVICE CONNECTIONS.
#4 600V INSULATED COPPER GROUNDING CONDUCTOR REQUIRED ON PRIMARY SYSTEM WHEN SEPERATE SYSTEMS ARE REQUIRED.

GROUND

SKETCH DATE: JUNE 2002 STYLE: OH-41

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
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A/E INFO

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ROICC FLORENCE CAMP LEJEUNE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
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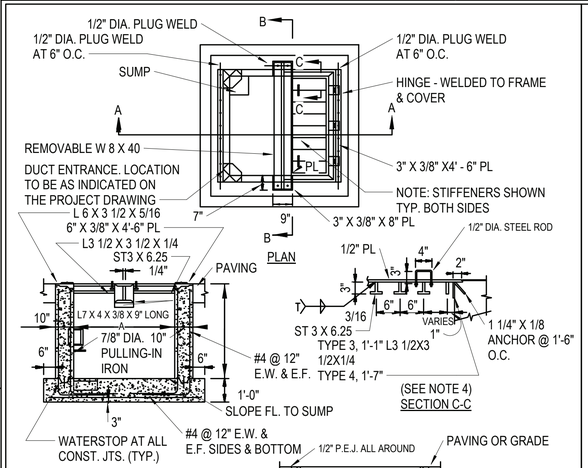
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE DETAILS

SCALE: AS NOTED
EPROJECT NO.: 15908892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
ES504

DP2 SUBMISSION – P1338 BUILDING -,PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:45 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



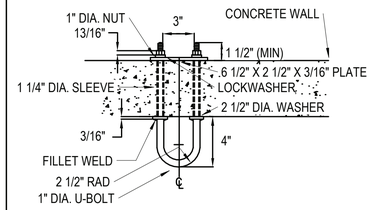
HANDHOLE TYPE	DIMENSIONS A
3	3'-0"
4	4"-0"

NOTES:

1. ENTRANCE OF DUCTS INTO HANDHOLE MAY BE MADE ON SIDE FACES OR CORNERS AS REQUIRED.
2. FOR DETAILS OF CABLE RACKS, DUCT ENTRANCE AND PULLING-IN IRONS, SEE PLATE UG-7
3. HANDHOLE AND COVER IS DESIGNED FOR MAXIMUM SINGLE WHEEL LOAD OF 50,000 LB. OR DUAL WHEEL LOAD OF 90,000 LB.
4. COVER SHALL BE MADE OF STRUCTURAL STEEL CONFORMING TO ASTM A 36/A 36M.
5. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3000 PSI.

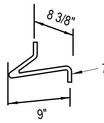
STANDARD ELECTRICAL HANDHOLE (TRAFFIC/AIRFIELD) TYPES 3 & 4

SKETCH DATE: JUNE 2002 | STYLE: UG - 5



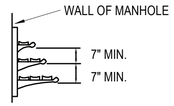
ALTERNATE METHOD

DETAIL OF PULLING-IN IRON

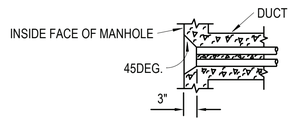


CAST IN PLACE

NOTE:
ALL METAL PARTS SHALL BE HOT DIP GALVANIZED



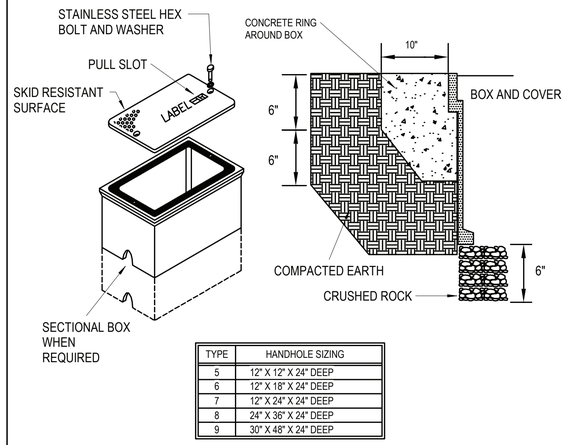
TYPICAL CABLE RACK



TYPICAL DUCT ENTRANCE

DETAILS (PULLING-IN IRONS, CABLE RACK AND DUCT ENTRANCE)

SKETCH DATE: JUNE 2002 | STYLE: UG - 7



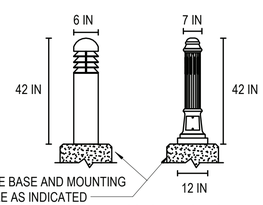
TYPE	HANDHOLE SIZING
5	12" X 12" X 24" DEEP
6	12" X 18" X 24" DEEP
7	12" X 24" X 24" DEEP
8	24" X 36" X 24" DEEP
9	30" X 48" X 24" DEEP

HANDHOLE REQUIREMENTS

1. HOUSING SHALL BE A POLYMER CONCRETE REINFORCED WITH A HEAVY WEAVE FIBERGLASS REINFORCING WITH COMPRESSIVE STRENGTH OF NO LESS THAN 10,000 PSI.
2. COVER AND BOX SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 15,000 LBS OVER A 10" X 10" AREA.
3. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
4. PROVIDE WITH (2) 2 1/2" MOUSEHOLES.
5. PROVIDE LABEL "ELECTRICAL" FOR POWER HANDHOLES OR "TELEPHONE" FOR TELEPHONE HEANDHOLES, OR AS INDICATED

STANDARD ELECTRICAL HANDHOLE (NONTRAFFIC)(COMPOSITE/FIBERGLASS) TYPES 5, 6, 7, 8, & 9

SKETCH DATE: JUNE 2002 | STYLE: UG - 6

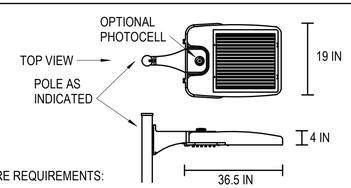


LUMINAIRE REQUIREMENTS: CONCRETE BASE AND MOUNTING HARDWARE AS INDICATED

1. HOUSING - EXTRUDED OR HEAVY- DUTY DIE-CAST ALUMINUM; CONCRETE OPTIONAL. ALL EXPOSED HARDWARE SHALL BE STAINLESS STEEL.
2. FINISH - MULTI-STAGE PRE-TREATMENT, FINISHED WITH BAKED-ON POLYESTER POWDER COAT. FINISH SHALL PASS 2500 HOUR SALT SPRAY TEST PER ASTM B117. CONCRETE MODEL SHALL HAVE OPTIONAL IMPREGNATED COLOR AND SMOOTH OR AGGREGATE FINSIH AS INDICATED.
3. BALLAST/DRIVER - TYPE A - CLASS P, HIGH POWER FACTOR, PROGRAMMED START, ELECTRONIC TYPE FOR COMPACT FLUORESCENT LIGHT SOURCE.
   TYPE B - ENCAPSULATED, CWA, HIGH POWER FACTOR, COIL AND CORE OR ELECTRONIC FOR METAL HALIDE LIGHT SOURCE (PROVIDE PULSE START WHEN AVAILABLE)
   TYPE C - CLASS 1, CONSTANT CURRENT, ELECTRONIC DRIVER FOR LED LIGHT SOURCE
4. OPTICAL ASSEMBLY - TYPES A AND B - ANODIZED, SPECULAR ALUMINUM WIH ACRYLIC OR TEMPERED GLASS LENS FOR METAL HALIDE AND CFL.
   TYPE C - DIRECTIONAL LED ASSEMBLIES FOR MAXIMUM BEAM ANGLE PROJECTION THROUGH LOUVERS OR OPENINGS IN LUMINAIRE BODY. PROVIDE NEMA TYPE I, III, OR V DISTRIBUTION AS INDICATED.
5. LIGHT SOURCE - COMPACT FLUORESCENT, METAL HALIDE OR LED.
6. CERTIFICATION - UL AND/OR ETL LISTED FOR WET LOCATION AND RoHS COMPLIANT.
7. OPTIONS - CLEAR OR FROSTED LENS, HOUSE SIDE SHIELD FOR 90 OR 180 DEGREE COVERAGE.
8. OTHER - THE ABOVE SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERYAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

DECORATIVE BOLLARD

REVISED: MARCH 2013 | LUMINAIRE PLATE: XL-12



LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-CAST ALUMINUM OR DIE-CAST AND EXTRUDED ALUMINUM WITH INTEGRAL, SELF CLEANING HEAT SINK FINS, RIBS, OR EQUIVALENT PASSIVE COOLING MECHANISM. HEAT SINK SHALL BE INCORPORATED DIRECTLY INTO HOUSING TO ENSURE MAXIMUM HEAT TRANSFER AND DISSIPATION.
2. FINISH - MULTI-STAGE PRE-TREATMENT, FINISHED WITH BAKED-ON POLYESTER POWDER COAT. FINISH SHALL PASS 2500 HOUR SALT SPRAY TEST PER ASTM B117 FINISH COLORS INCLUDE DARK BRONZE, SILVER, OR BLACK WITH CUSTOM COLORS AVAILABLE.
3. POWER SUPPLY/LED DRIVER - PROVIDE IN SEPERATE COMPARTMENT ACCESSIBLE WITHOUT THE USE OF HAND TOOLS. CLASS 1 DRIVER SHALL OPERATE AT 120/277V, 50/60HZ; OTHER VOLTAGES OPTIONAL. POWER FACTOR GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. MINIMUM EFFICACY SHALL BE 60 LM/W AT MAXIMUM 60mA OPERATING CURRENT.
4. LED OPTICAL ASSEMBLY - NUMBER OF LED ARRAYS SHALL VARY TO ACCOMODATE DESIRED LUMINAIRE OUTPUT. PROVIDE WITH EQUIVALENT NEMA TYPE III, IV OR V DISTRIBUTION AS INDICATED. BUG UPLIGHT RATING OF UO, WITH BACKLIGHT AND GLARE RATINGS AS DETERMINED BY LIGTING ZONE INSTALLED. MINIMUM COLOR RENDERING INDEX (CRI) SHALL BE 70 FOR CORRELATED COLOR TEMPERATURE (CCT) OF 4000 K TO 4500 DEGREES K.
5. SURGE PROTECTION - 6 kV MINIMUM, COMPLAINT WITH ANSI C62.41.2.
6. CERTIFICATION - UL AND/OR ETL LISTED, MINIMUM IP65 RATED PER ANSI/IEC 60529, AND RoHS COMPLIANT.
7. OPTIONS - PHOTOCELL AND RECEPTACLE, SHORTING CAP, BIRD SPIKES, AND 0-10 VOLT DIMMING
8. OTHER - THE ABOVE SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

LED AREA LUMINAIRE

REVISED: MARCH 2013 | LUMINAIRE PLATE: XL-03

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD | DRW LAK | CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
ES505

DP2 SUBMISSION – P1338 BUILDING -_PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:48 PM

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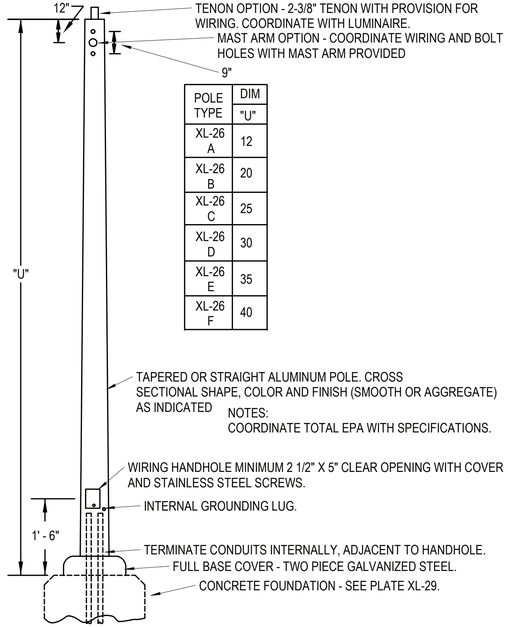
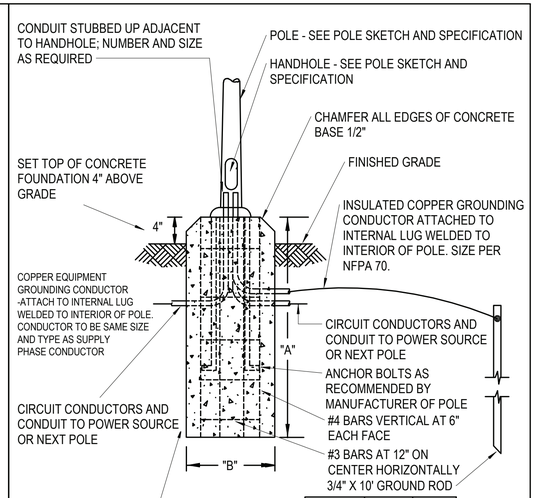


NOTES:
COORDINATE TOTAL EPA WITH SPECIFICATIONS.

POLE TYPE	DIM "U"
XL-26 A	12
XL-26 B	20
XL-26 C	25
XL-26 D	30
XL-26 E	35
XL-26 F	40

ANCHOR BASE ALUMINUM POLE

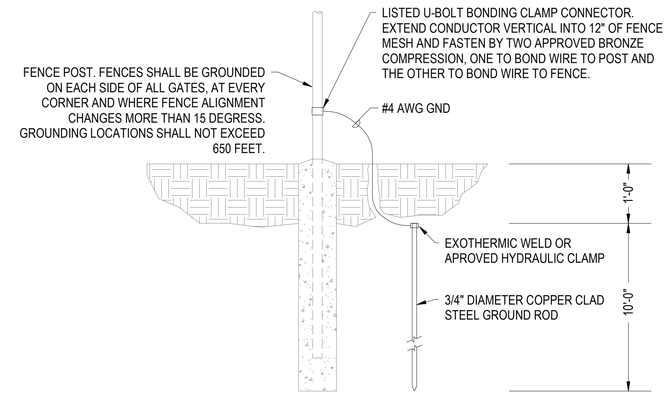
REVISED: MARCH 2013 | LUMINAIRE PLATE: XL - 28



POLE HEIGHT	A	B
8'-12'	36"	12"
13'-20'	42"	16"
21'-30'	72"	24"
31'-40'	78"	30"

ANCHOR BASE POLE FOUNDATION

REVISED: MARCH 2013 | LUMINAIRE PLATE: XL - 29

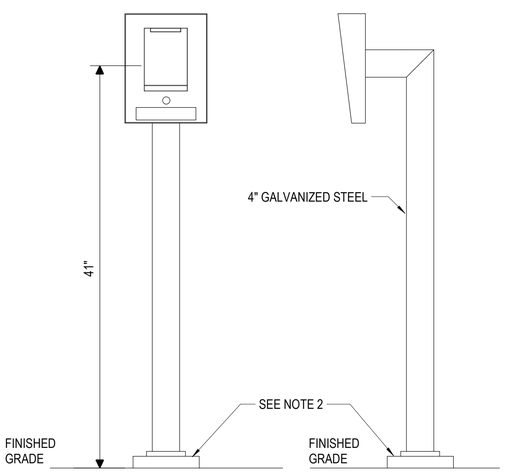


NOTES:
1. PLACE GROUND ROD NOT CLOSER THAN 2 FEET FROM FENCE POST AND NOT MORE THAN 8 FEET FROM FENCE POST.
2. EACH GATE SECTION SHALL BE BONDED TO ITS GATEPOST BY 1 1/8" X 1" FLEXIBLE BRAIDED COPPER STRAP AND GROUND POST CLAMPS.

FENCE GROUNDING DETAIL

SCALE:NTS

C4



NOTES:
1. CONTRACTROR SHALL PLACE CARD READER SUCH THAT THE FACE OF THE READERS ARE NO LESS THAN 6" FROM THE FACE OF CURB, OR IF GIVEN, AT A DISTANCE SPECIFIED BY THE MANUFACTURER.
2. PROVIDE CONCRETE PAD OR SET IN CONCRETE FOR PEDESTAL INSTALLATION.

ACS PEDESTAL SECURITY DETAIL

SCALE:NTS

A1

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ Jordan COMPANY ~A JOINT VENTURE~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE
DES SD | DRW LAK | CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

ES506

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:49 PM

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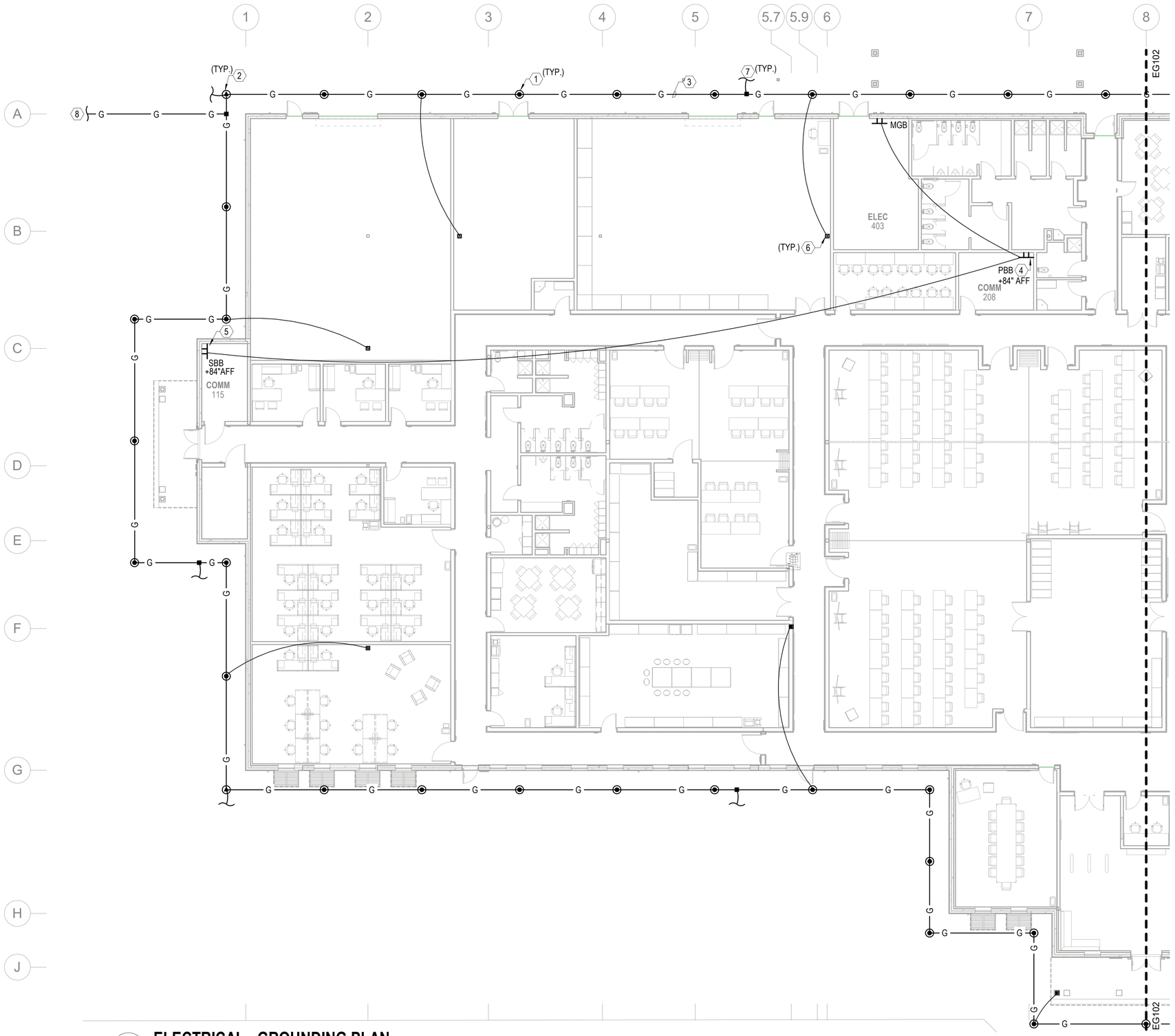

A1 ELECTRICAL - GROUNDING PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES

1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2 SEE SHEET EG501 FOR GROUNDING DETAILS
3 SEE SHEETS EG103 AND EG104 FOR LIGHTNING PROTECTION PLAN

KEYNOTES

1 3/4" DIAMETER BY 10' LONG COPPER CLAD GROUND ROD.
2 GROUND TEST WELL STATION. SEE DETAIL C4 ON SHEET EG501.
3 #4/0 AWG BARE COPPER GROUND LOOP INSTALLED 3' MINIMUM TO 10' MAXIMUM FROM BUILDING FOUNDATION AND BEYOND THE BUILDING PERIMETER.
4 PROVIDE CONNECTION TO MAIN GROUNDING BUS (MGB) IN ELECTRICAL ROOM 403 WITH #4/0 AWG BARE COPPER GEC. SEE DETAIL 1 ON SHEET EG501.
5 TELECOMMUNICATION SECONDARY GROUNDING BUSBAR (SBB) TO BE CONNECTED TO TELECOMMUNICATION PRIMARY GROUNDING BUSBAR (PBB) IN ROOM 208. #4/0 AWG BARE COPPER GROUNDING WIRE TO BE USED FOR CONNECTION.
6 EXOTHERMIC WELD CONNECTION TO BUILDING STEEL.
7 DOWN CONDUCTOR CONNECTION FROM ROOF LIGHTNING PROTECTION SYSTEM. DOWN CONDUCTORS SHALL RUN DOWN THE EXTERIOR OF THE BUILDING WALLS, PROTECTED BY SCH. 40 PVC CONDUIT. COORDINATE WITH LIGHTNING PROTECTION PLANS ON SHEETS EG103 AND EG104.
8 #4/0 AWG BARE COPPER GROUND CABLE RUN LENGTH OF NEW FENCE. TIE FENCE POST TO GROUND WIRE VIA GROUND ROD. SEE DETAIL A2 ON SHEET ES506.

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ Jordan COMPANY ~A JOINT VENTURE~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - GROUNDING PLAN

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

EG101

0 8'-0" 16'-0" 32'-0"
SCALE: 0'-0 3/32" = 1'-0"

N

DP2 SUBMISSION – P1338 BUILDING - -PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:45 PM

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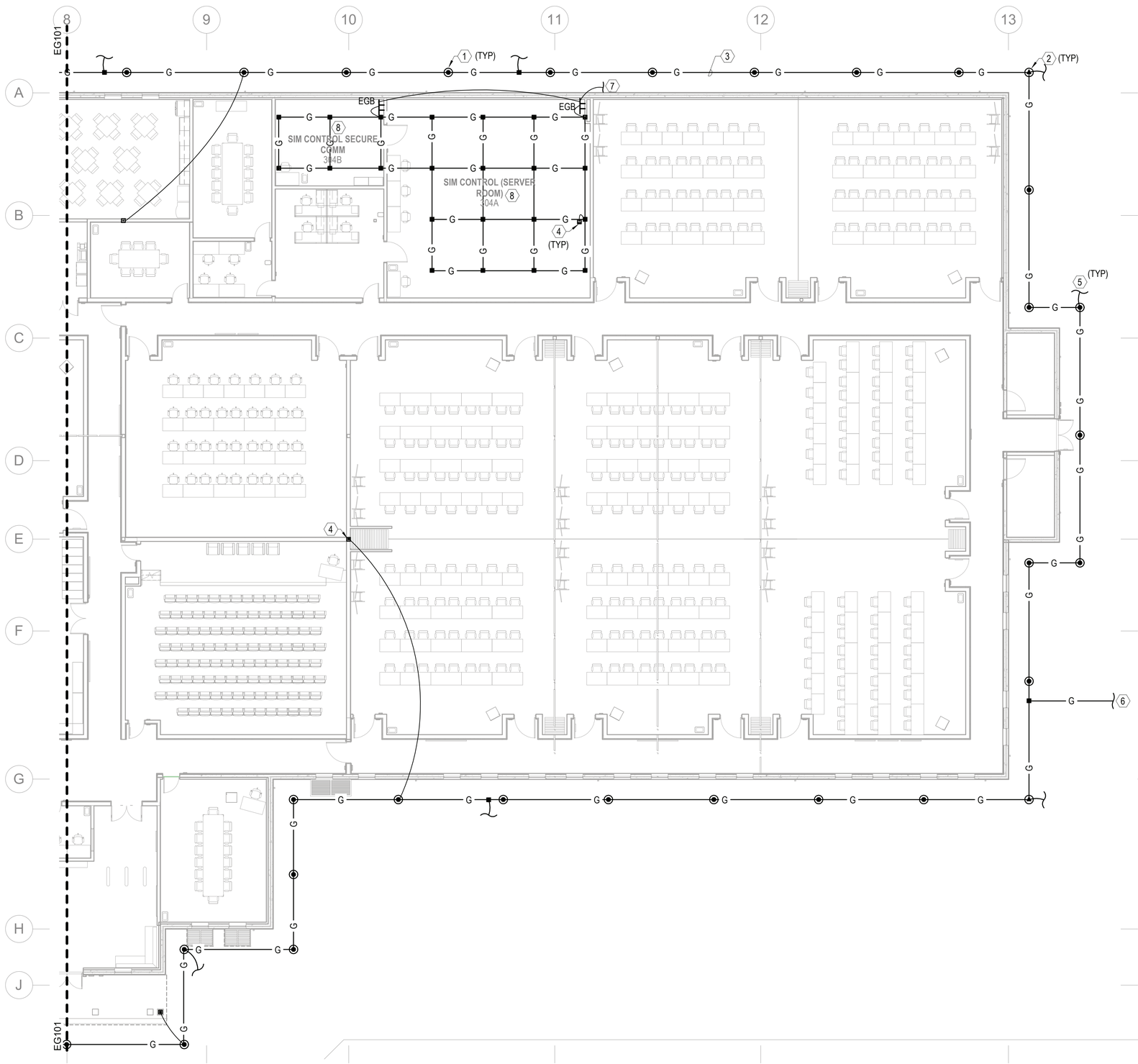


A1 ELECTRICAL - GROUNDING PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES

1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2 SEE SHEET EG501 FOR GROUNDING DETAILS
3 SEE SHEETS EG103 AND EG104 FOR LIGHTNING PROTECTION PLAN

KEYNOTES

1 3/4" DIAMETER BY 10' LONG COPPER CLAD GROUND ROD.
2 GROUND TEST WELL STATION. SEE DETAIL C4 ON SHEET EG501.
3 #4/0 AWG BARE COPPER GROUND LOOP INSTALLED 3' MINIMUM TO 10' MAXIMUM FROM BUILDING FOUNDATION AND BEYOND THE BUILDING PERIMETER.
4 EXOTHERMIC WELD CONNECTION TO BUILDING STEEL.
5 DOWN CONDUCTOR CONNECTION FROM ROOF LIGHTNING PROTECTION SYSTEM. DOWN CONDUCTORS SHALL RUN DOWN THE EXTERIOR OF THE BUILDING WALLS, PROTECTED BY SCH. 40 PVC CONDUIT. COORDINATE WITH LIGHTNING PROTECTION PLANS ON SHEETS EG103 AND EG104.
6 #4/0 AWG BARE COPPER GROUND CABLE RUN LENGTH OF NEW FENCE. TIE FENCE POST TO GROUND WIRE VIA GROUND ROD. SEE DETAIL A2 ON SHEET ES506.
7 PROVIDE CONNECTION TO MAIN GROUNDING BUS (MGB) IN ELECTRICAL ROOM 403 WITH #4/0 AWG BARE COPPER GEC. SEE DETAIL 1 ON SHEET EG501.
8 #4/0 AWG BARE COPPER GROUND BONDING CONNECTION TO TELECOMMUNICATION RACKS IN RM 304A AND 304B. COORDINATE FINAL LOCATION OF TELECOMMUNICATION RACKS.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
JACKSONVILLE, NC

MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - GROUNDING PLAN

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

EG102

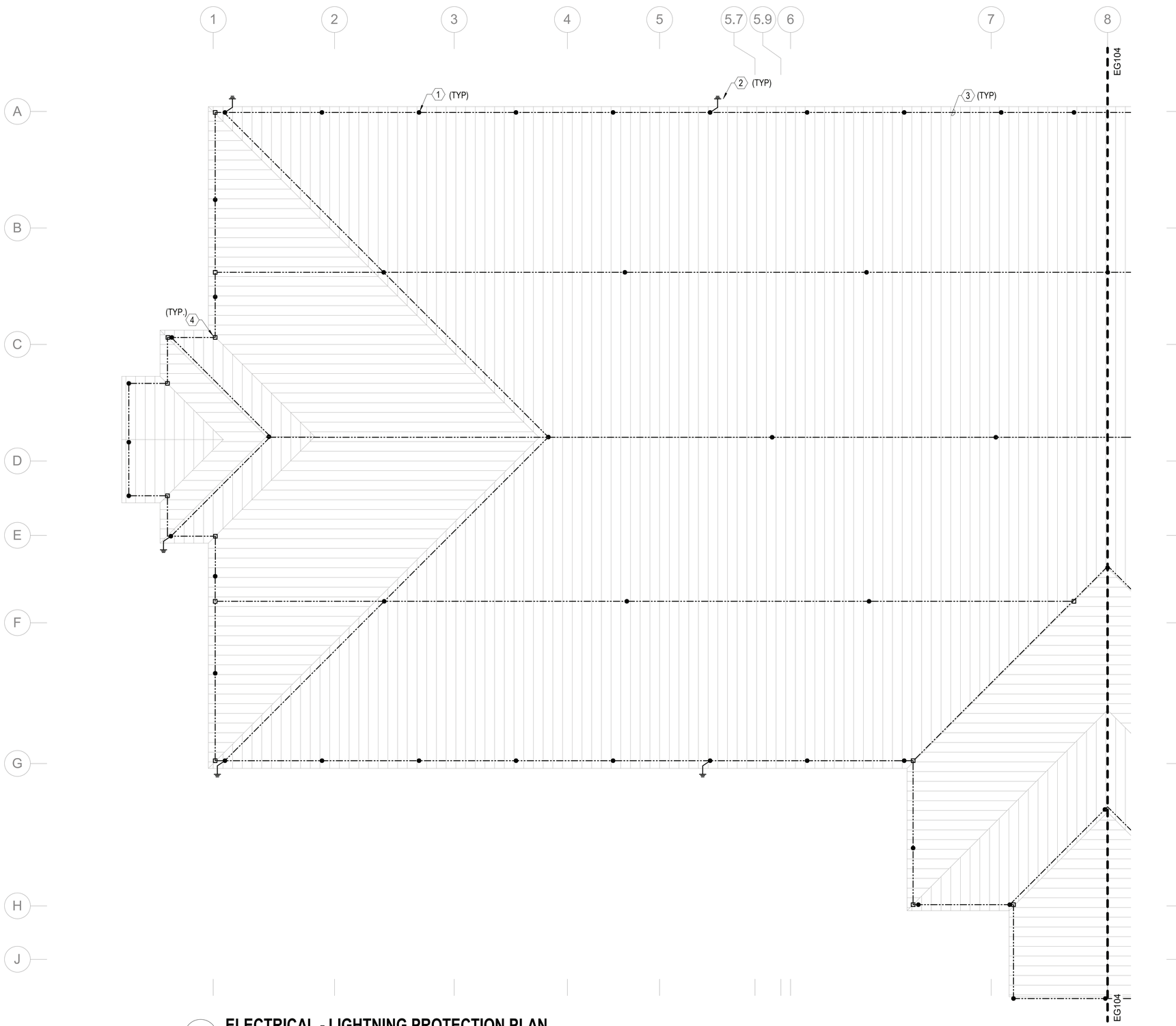
0 8'-0" 16'-0" 32'-0"
SCALE: 0'-0 3/32" = 1'-0"

N

PLOTTED: 6/10/2021 5:42:48 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION



A1 ELECTRICAL - LIGHTNING PROTECTION PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEETS EG101 AND EG102 FOR GROUNDING PLANS
3. SEE SHEET EG501 FOR LIGHTNING PROTECTION DETAILS
4. LIGHTNING PROTECTION DESIGN AND INSTALLATION SHALL MEET THE REQUIREMENTS OF NFPA 780 AND UL96. DESIGN SHALL BE LPI MASTER LABEL CERTIFIED.

KEYNOTES

1. 5/8" BY 10" SOLID ALUMINUM AIR TERMINAL.
2. #4/0 AWG BARE STRANDED CLASS 1 ALUMINUM DOWN CONDUCTOR CONSISTING OF STRANDS OF #13 AWG ALUMINUM. CONCEAL DOWN CONDUCTORS. PROVIDE APPROPRIATE ALUMINUM TO COPPER BIMETALLIC CONNECTORS AS REQUIRED FOR CONNECTION TO COPPER CLAD GROUND ROD. COORDINATE CONNECTION WITH GROUNDING PLAN ON SHEET EG101 AND EG102.
3. #4/0 AWG BARE STRANDED CLASS 1 ALUMINUM LIGHTNING PROTECTION MAIN CONDUCTOR CONSISTING OF STRANDS OF #13 AWG ALUMINUM.
4. ALUMINUM TO ALUMINUM CLAMP CONNECTOR.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
RO/CC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - LIGHTNING PROTECTION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

EG103

0 8'-0" 16'-0" 32'-0"
SCALE: 0'-0 3/32" = 1'-0"

N

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:51 PM

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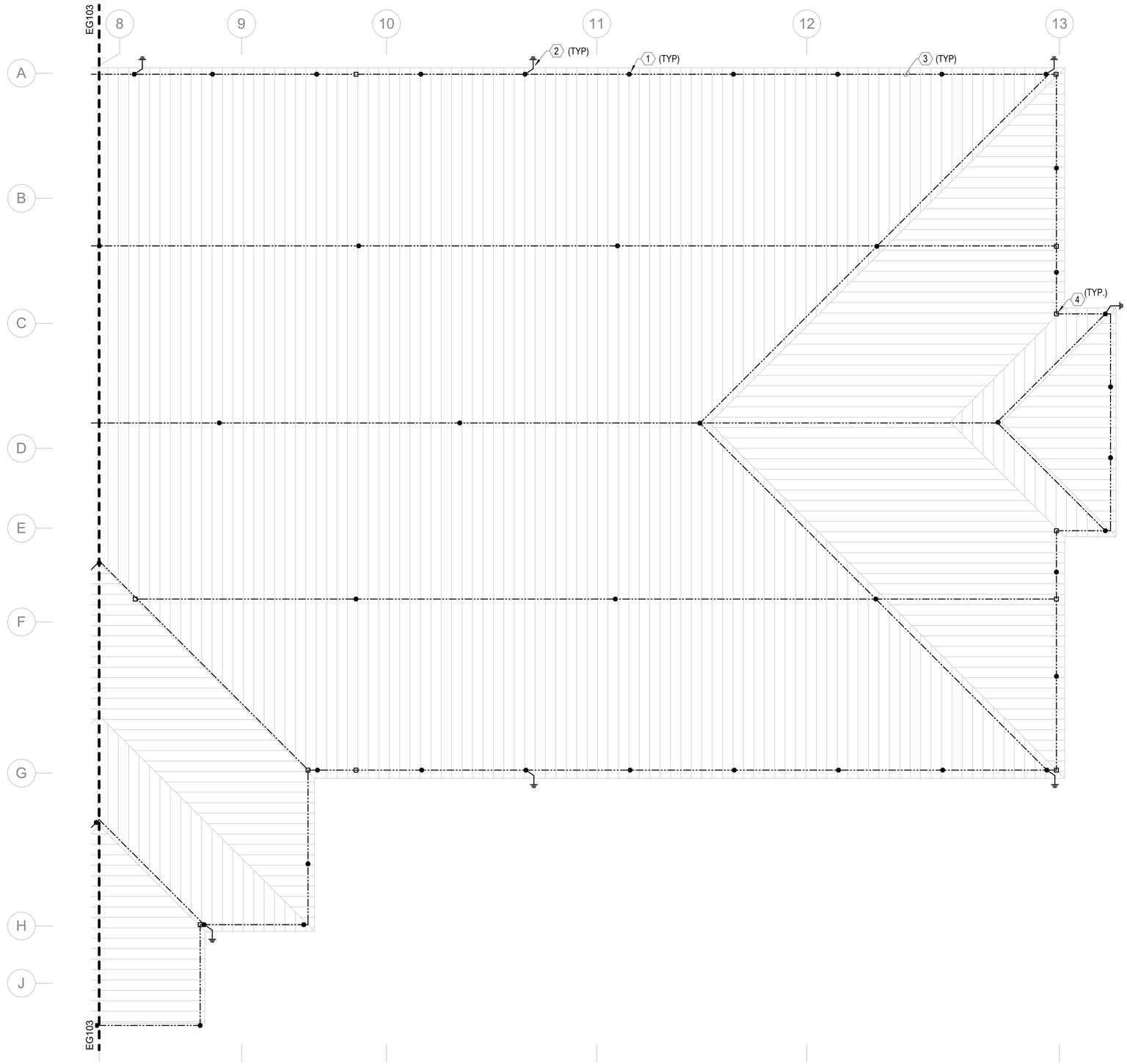

A1 ELECTRICAL - LIGHTNING PROTECTION PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEETS EG101 AND EG102 FOR GROUNDING PLANS
3. SEE SHEET EG501 FOR LIGHTNING PROTECTION DETAILS
4. LIGHTNING PROTECTION DESIGN AND INSTALLATION SHALL MEET THE REQUIREMENTS OF NFPA 780 AND UL96. DESIGN SHALL BE LPI MASTER LABEL CERTIFIED.

KEYNOTES

1. 5/8" BY 10" SOLID ALUMINUM AIR TERMINAL.
2. #4/0 AWG BARE STRANDED CLASS 1 ALUMINUM DOWN CONDUCTOR CONSISTING OF STRANDS OF #13 AWG ALUMINUM. CONCEAL DOWN CONDUCTORS. PROVIDE APPROPRIATE ALUMINUM TO COPPER BIMETALLIC CONNECTORS AS REQUIRED FOR CONNECTION TO COPPER CLAD GROUND ROD. COORDINATE CONNECTION WITH GROUNDING PLAN ON SHEET EG101 AND EG102.
3. #4/0 AWG BARE STRANDED CLASS 1 ALUMINUM LIGHTNING PROTECTION MAIN CONDUCTOR CONSISTING OF STRANDS OF #13 AWG ALUMINUM.
4. ALUMINUM TO ALUMINUM CLAMP CONNECTOR.

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
JACKSONVILLE, NC
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - LIGHTNING PROTECTION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

EG104

0 8'-0" 16'-0" 32'-0"
SCALE: 0'-0 3/32" = 1'-0"
N

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:53 PM

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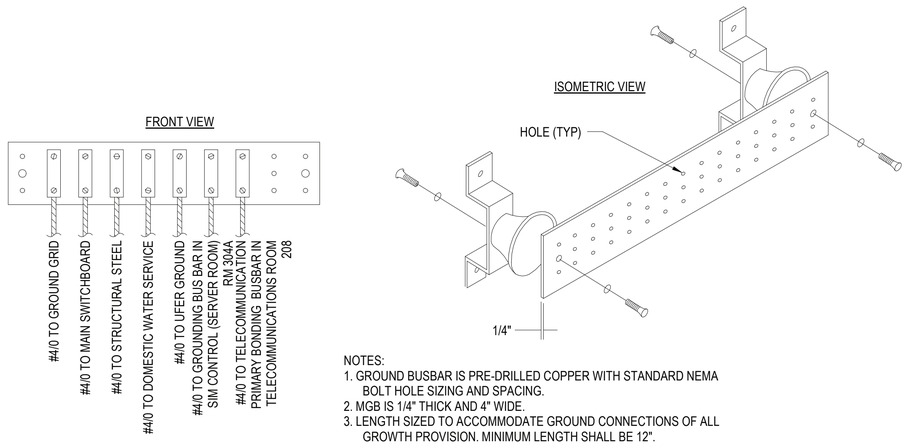
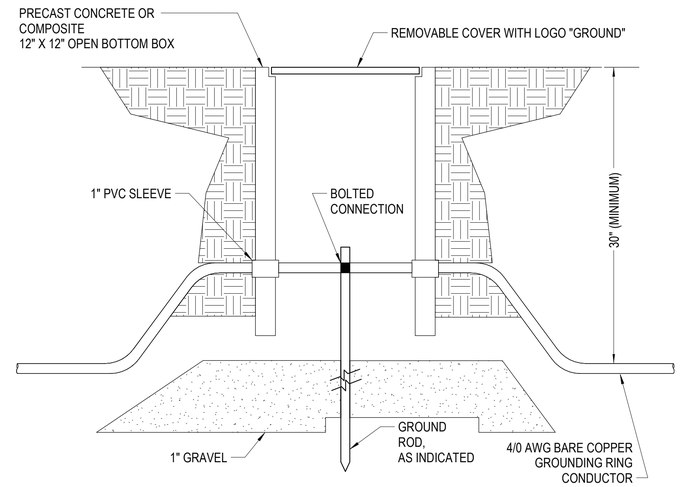


NOTES:
1. GROUND BUSBAR IS PRE-DRILLED COPPER WITH STANDARD NEMA BOLT HOLE SIZING AND SPACING.
2. MGB IS 1/4" THICK AND 4" WIDE.
3. LENGTH SIZED TO ACCOMMODATE GROUND CONNECTIONS OF ALL GROWTH PROVISION. MINIMUM LENGTH SHALL BE 12".

ELECTRICAL MAIN GROUNDING BUSBAR

SCALE:NTS

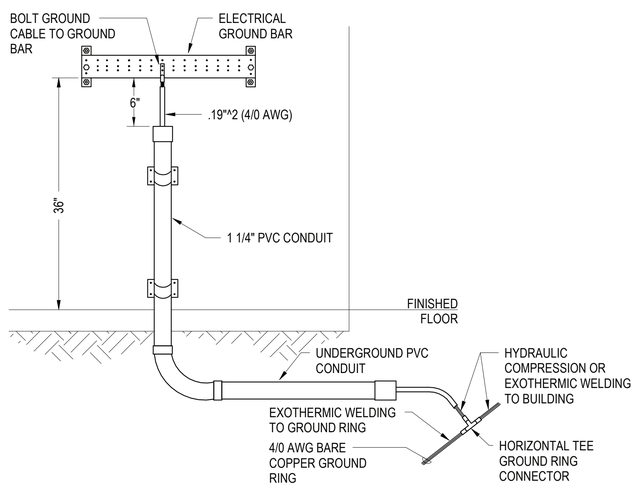
REF EG101 - EG102 C1



GROUND ROD TEST WELL

SCALE:NTS

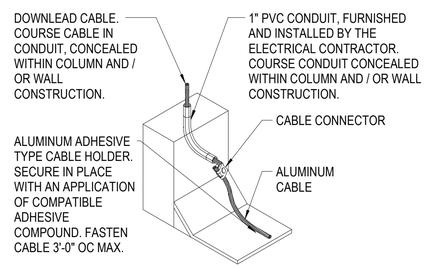
REF EG101 - EG102 C4



ELECTRICAL GROUND BAR AND GROUND RING CONNECTIONS

SCALE:NTS

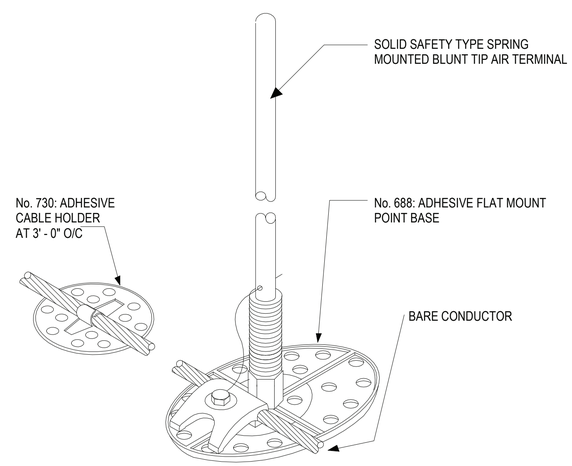
REF EG101 - EG102 A1



CONCEALED DOWNLEAD TO LOWER ROOF

SCALE:NTS

REF EG103 - EG104 A3



AIR TERMINALS & CABLE HOLDERS

SCALE:NTS

REF EG103 - EG104 A4

SYM	DESCRIPTION	DATE	APPR

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - GROUNDING DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 12826285
SHEET OF

EG501

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:54 PM

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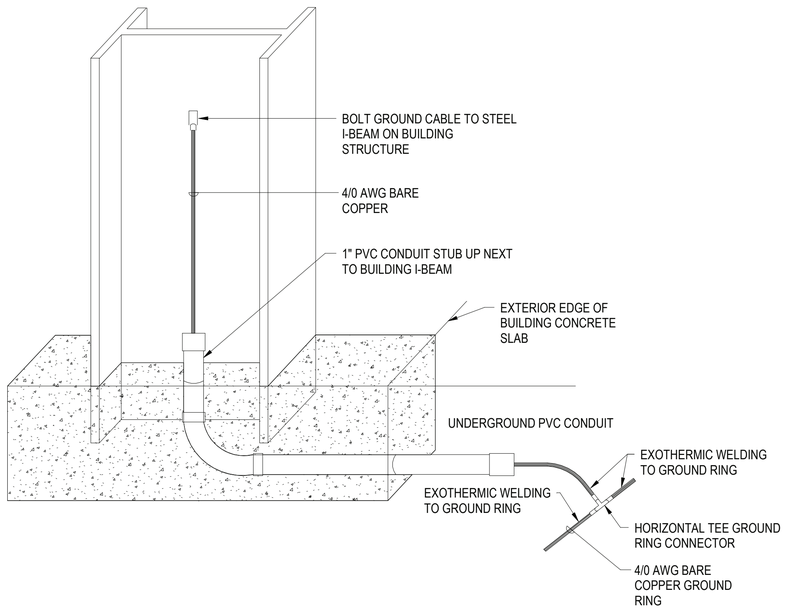
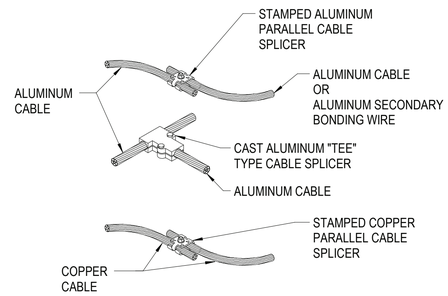


BUILDING GROUND AND GROUND RING CONNECTIONS

SCALE:NTS

REF EG101 - EG102

C1



TYPICAL CABLE SPLICERS

SCALE:NTS

REF EG101 - EG102

C3

SYM	DESCRIPTION	DATE	APPR.

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - GROUNDING DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.
12826285

SHEET OF

EG502

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:55 PM

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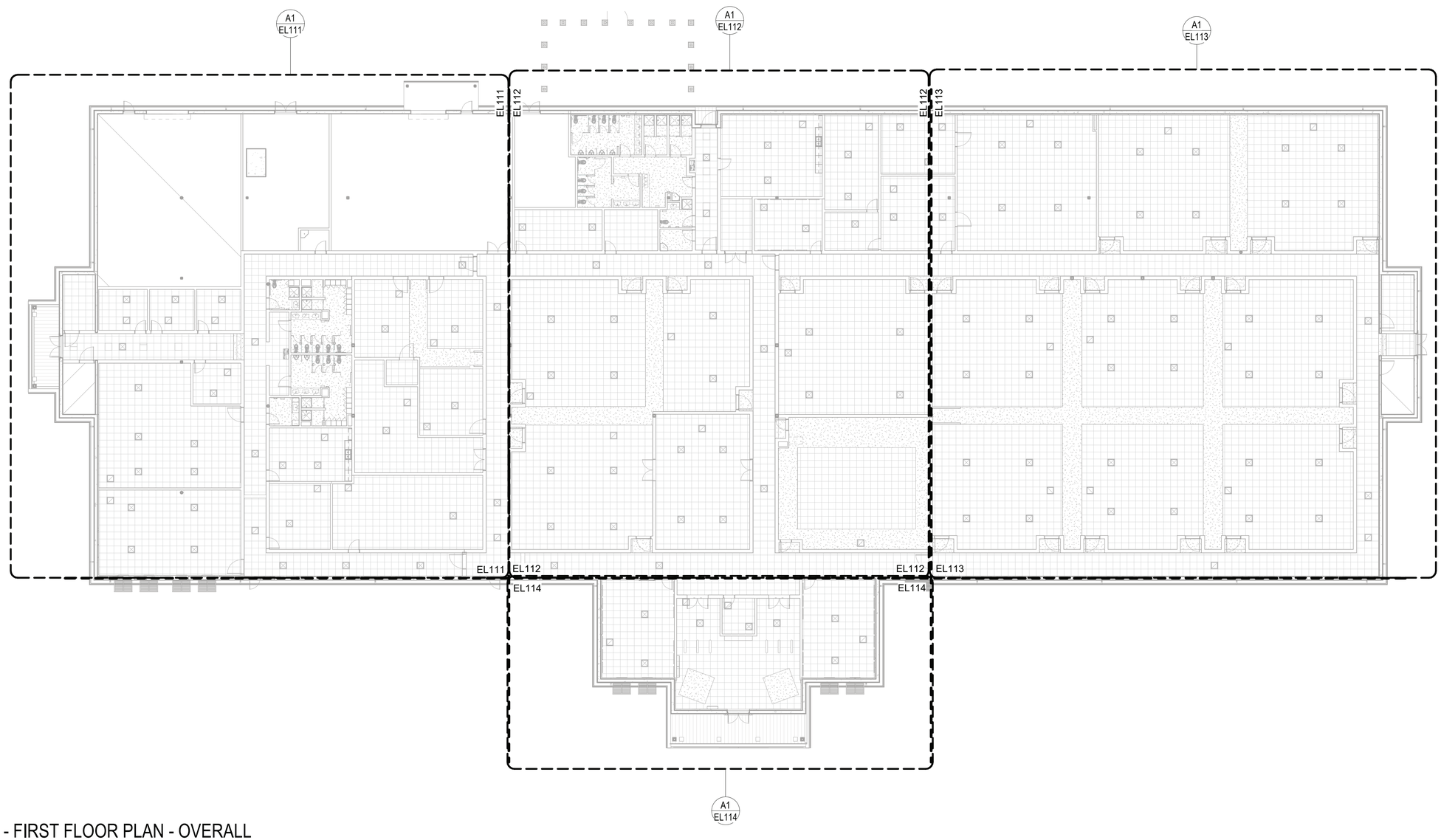
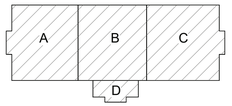


LIGHTING - FIRST FLOOR PLAN - OVERALL

SCALE: 1/16" = 1'-0"

KEYPLAN



0 8'-0" 16'-0" 32'-0"

SCALE: 0'-0 1/16" = 1'-0"

N

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

MCB CAMP LEJEUNE
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

LIGHTING - FIRST FLOOR PLAN - OVERALL

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

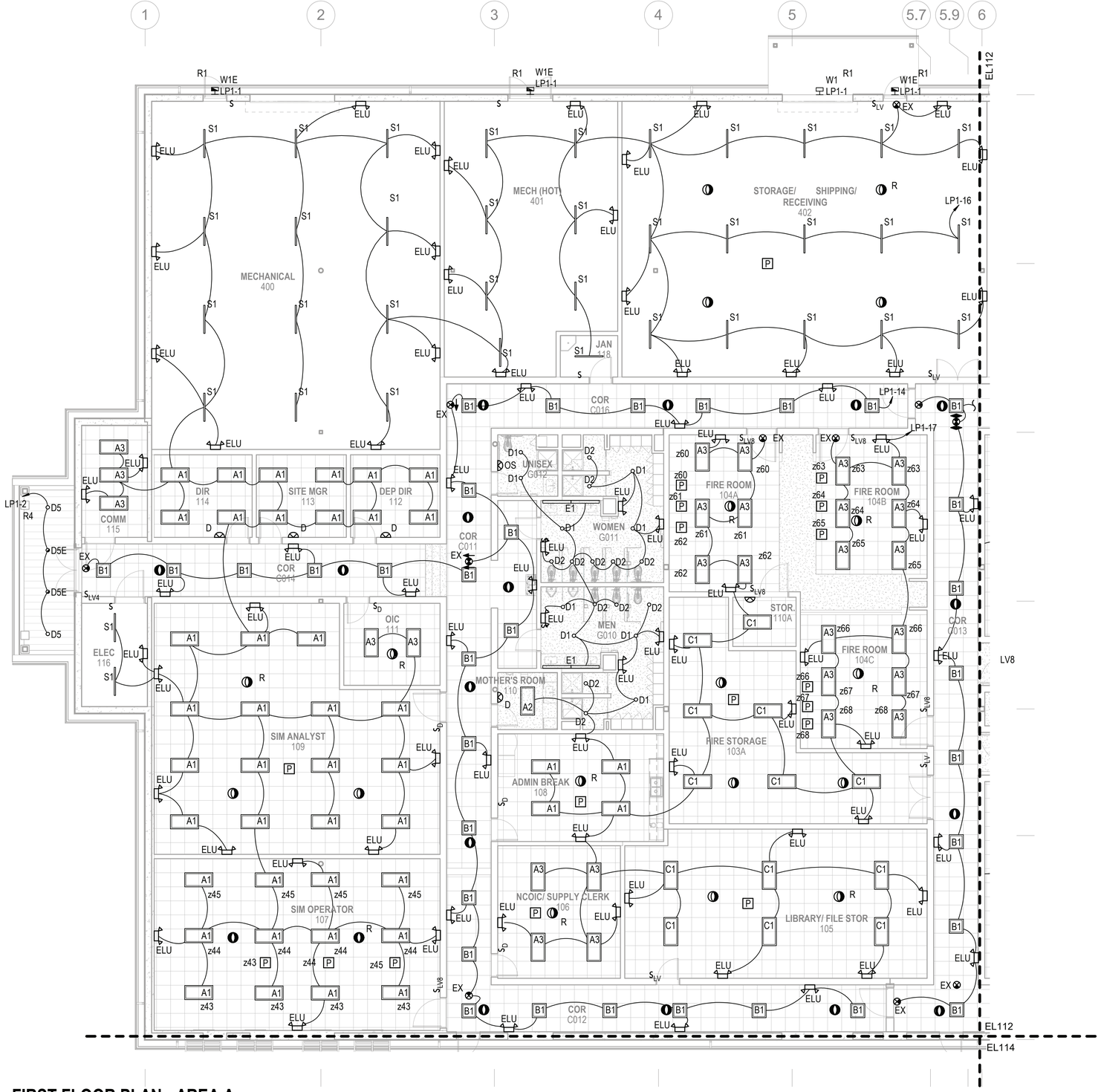
SHEET OF

EL110

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:43:08 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 LIGHTING - FIRST FLOOR PLAN - AREA A

SCALE: 1/8" = 1'-0" (EL110)

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.
3. THE WIRING SHOWN ON THE LIGHTING PLANS INDICATE FIXTURES WHICH ARE ON THE SAME CIRCUIT, NOT THE ACTUAL WIRING. CONTRACTOR SHALL ADHERE TO THE SWITCH DESIGNATIONS AND LIGHTING CONTROL DIAGRAMS FOR THE ACTUAL WIRING.
4. CONNECT EXIT SIGN AND EMERGENCY LIGHTING UNITS AHEAD OF THE SWITCH/SENSOR TO THE NORMAL LIGHTING CICUIT THAT IS LOCATED IN THE SAME AREA/ROOM IN WHICH THOSE EXIT AND EMERGENCY LUMINAIRES ARE SERVING.

SYM	DESCRIPTION	DATE	APPR.

SEAL

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
RO/CC FLORENCE CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

MCB CAMP LEJEUNE
JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

LIGHTING - FIRST FLOOR PLAN - AREA A

SCALE: AS NOTED

EPROJECT NO.: 1590892

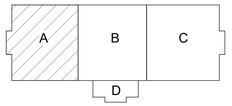
CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

EL111

KEYPLAN



0 4'-0" 8'-0" 16'-0"
SCALE: 0'-0 1/8" = 1'-0"

N

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:43:24 PM

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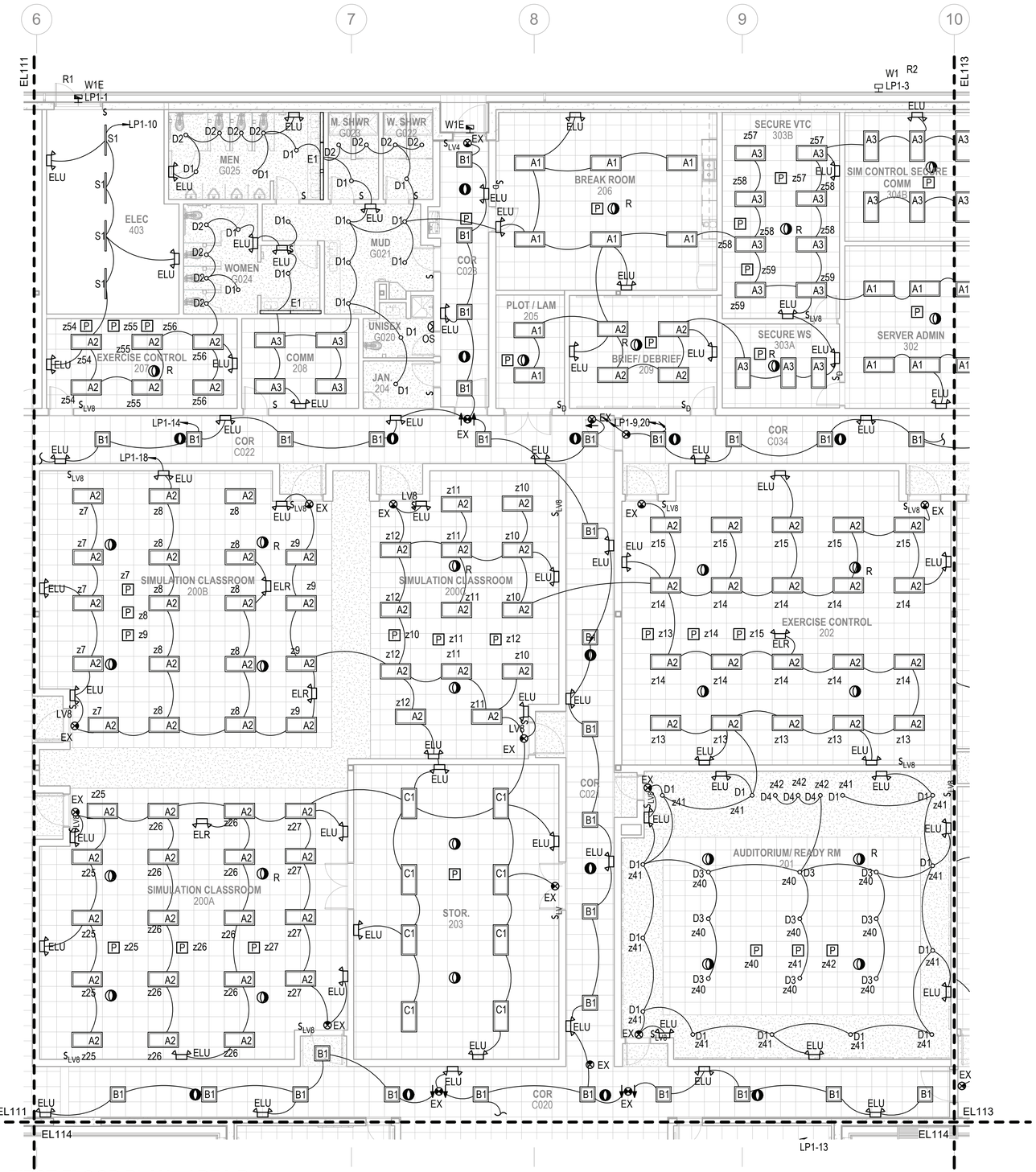


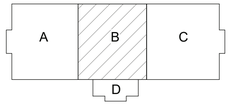
A1 LIGHTING - FIRST FLOOR PLAN - AREA B

SCALE: 1/8" = 1'-0" (EL110)

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.
3. THE WIRING SHOWN ON THE LIGHTING PLANS INDICATE FIXTURES WHICH ARE ON THE SAME CIRCUIT, NOT THE ACTUAL WIRING. CONTRACTOR SHALL ADHERE TO THE SWITCH DESIGNATIONS AND LIGHTING CONTROL DIAGRAMS FOR THE ACTUAL WIRING.
4. CONNECT EXIT SIGN AND EMERGENCY LIGHTING UNITS AHEAD OF THE SWITCH/SENSOR TO THE NORMAL LIGHTING CICUIT THAT IS LOCATED IN THE SAME AREA/ROOM IN WHICH THOSE EXIT AND EMERGENCY LUMINAIRES ARE SERVING.

KEYPLAN



SCALE: 0'-0 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND
JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

LIGHTING - FIRST FLOOR PLAN - AREA B

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

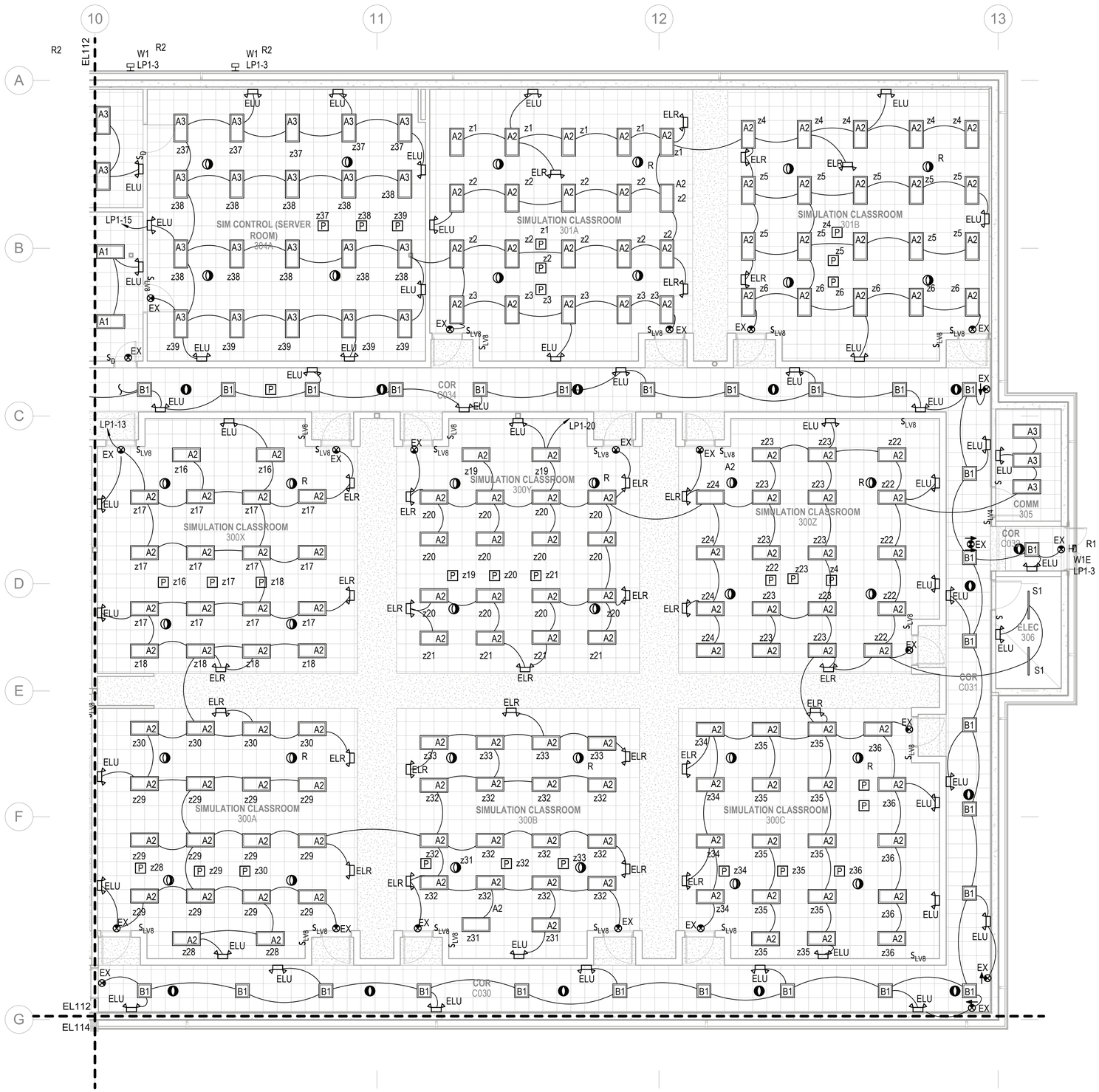
SHEET OF

EL112

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:43:38 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 LIGHTING - FIRST FLOOR PLAN - AREA C

SCALE: 1/8" = 1'-0" (EL110)

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.
3. THE WIRING SHOWN ON THE LIGHTING PLANS INDICATE FIXTURES WHICH ARE ON THE SAME CIRCUIT, NOT THE ACTUAL WIRING. CONTRACTOR SHALL ADHERE TO THE SWITCH DESIGNATIONS AND LIGHTING CONTROL DIAGRAMS FOR THE ACTUAL WIRING.
4. CONNECT EXIT SIGN AND EMERGENCY LIGHTING UNITS AHEAD OF THE SWITCH/SENSOR TO THE NORMAL LIGHTING CICUIT THAT IS LOCATED IN THE SAME AREA/ROOM IN WHICH THOSE EXIT AND EMERGENCY LUMINAIRES ARE SERVING.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ Jordan COMPANY ~A JOINT VENTURE~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

LIGHTING - FIRST FLOOR PLAN - AREA C

SCALE: AS NOTED

EPROJECT NO.: 1590892

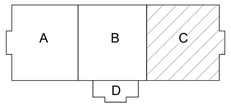
CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

EL113

KEYPLAN



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SCALE: 0'-0 1/8" = 1'-0"

N

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:43:45 PM

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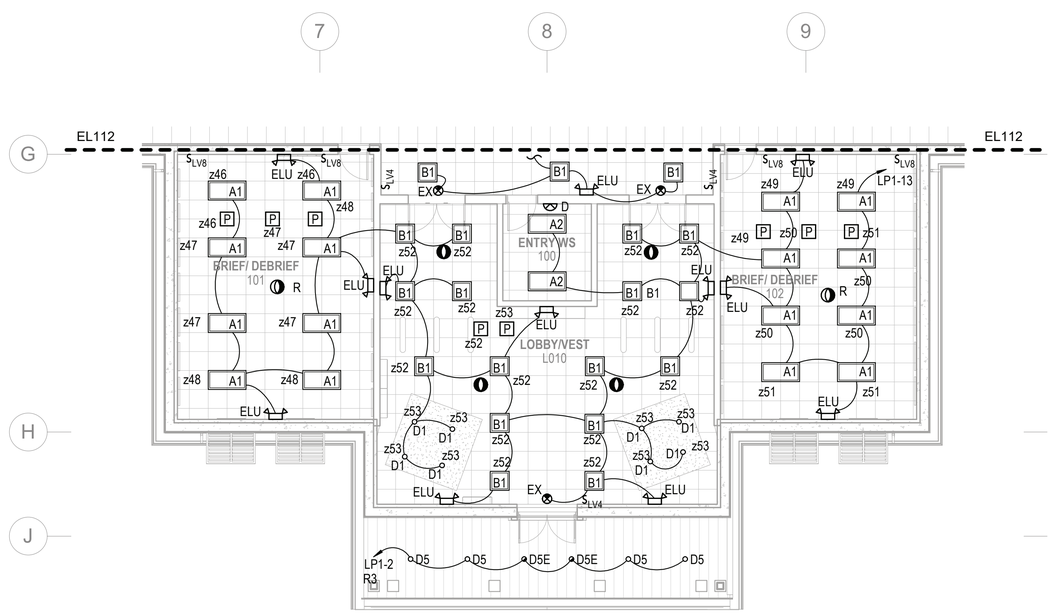


A1 LIGHTING - FIRST FLOOR PLAN - AREA D

SCALE: 1/8" = 1'-0" (EL110)

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.
3. THE WIRING SHOWN ON THE LIGHTING PLANS INDICATE FIXTURES WHICH ARE ON THE SAME CIRCUIT, NOT THE ACTUAL WIRING. CONTRACTOR SHALL ADHERE TO THE SWITCH DESIGNATIONS AND LIGHTING CONTROL DIAGRAMS FOR THE ACTUAL WIRING.
4. CONNECT EXIT SIGN AND EMERGENCY LIGHTING UNITS AHEAD OF THE SWITCH/SENSOR TO THE NORMAL LIGHTING CICUIT THAT IS LOCATED IN THE SAME AREA/ROOM IN WHICH THOSE EXIT AND EMERGENCY LUMINAIRES ARE SERVING.

SYM	DESCRIPTION	DATE	APPR

SEAL

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

LIGHTING - FIRST FLOOR PLAN - AREA D

SCALE: AS NOTED

EPROJECT NO.: 1590892

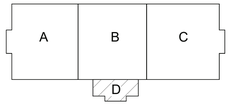
CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

EL114

KEYPLAN



0 4'-0" 8'-0" 16'-0"
SCALE: 0'-0 1/8" = 1'-0"

N

DP2 SUBMISSION – P1338 BUILDING -_PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:43:49 PM

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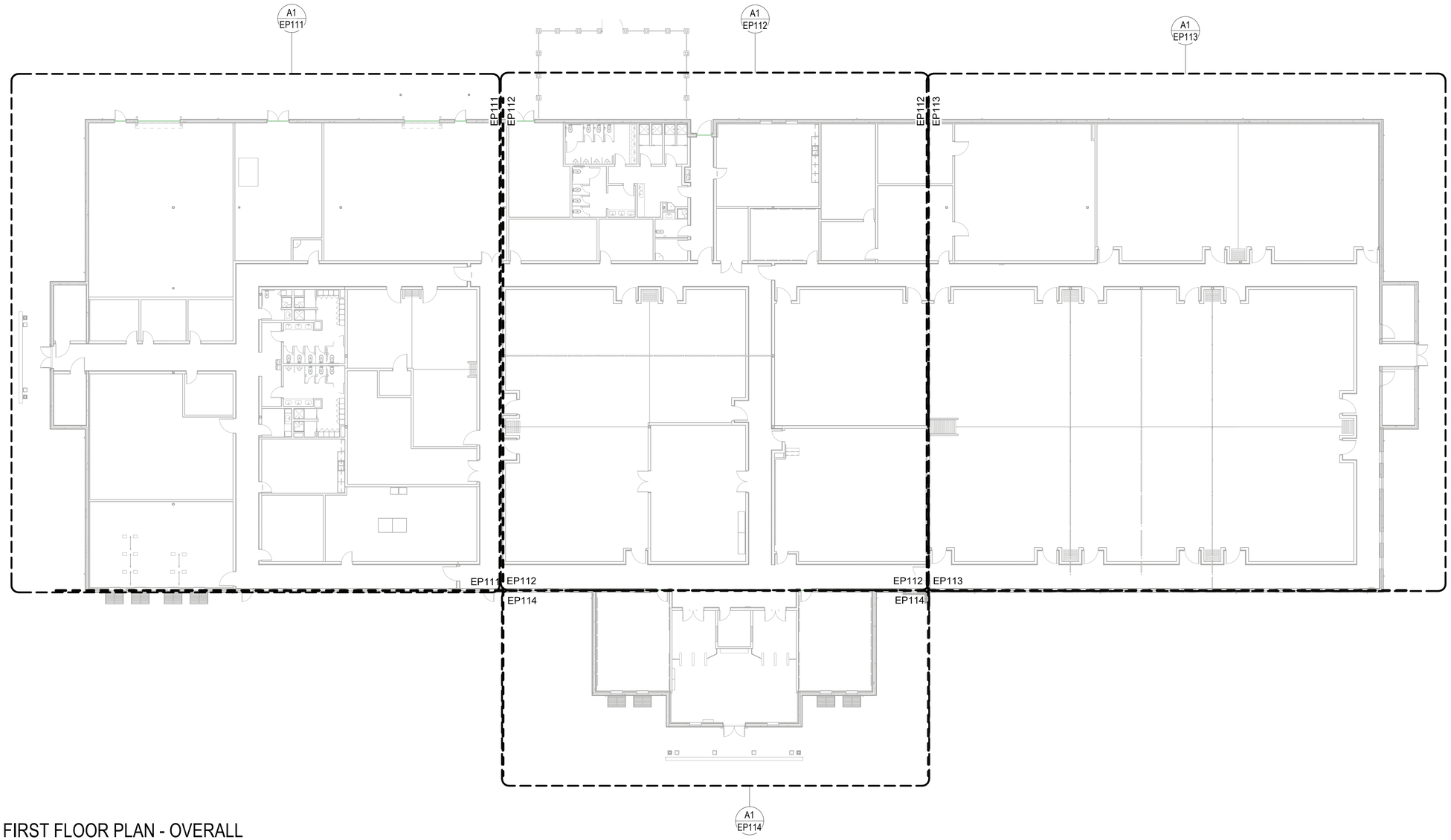
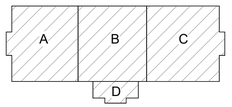


POWER - FIRST FLOOR PLAN - OVERALL

SCALE: 1/16" = 1'-0"

KEYPLAN



0 8'-0" 16'-0" 32'-0"

SCALE: 0'-0 1/16" = 1'-0"

N

SYM	DESCRIPTION	DATE	APPR.

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD DRW LAK CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

POWER - FIRST FLOOR PLAN - OVERALL

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

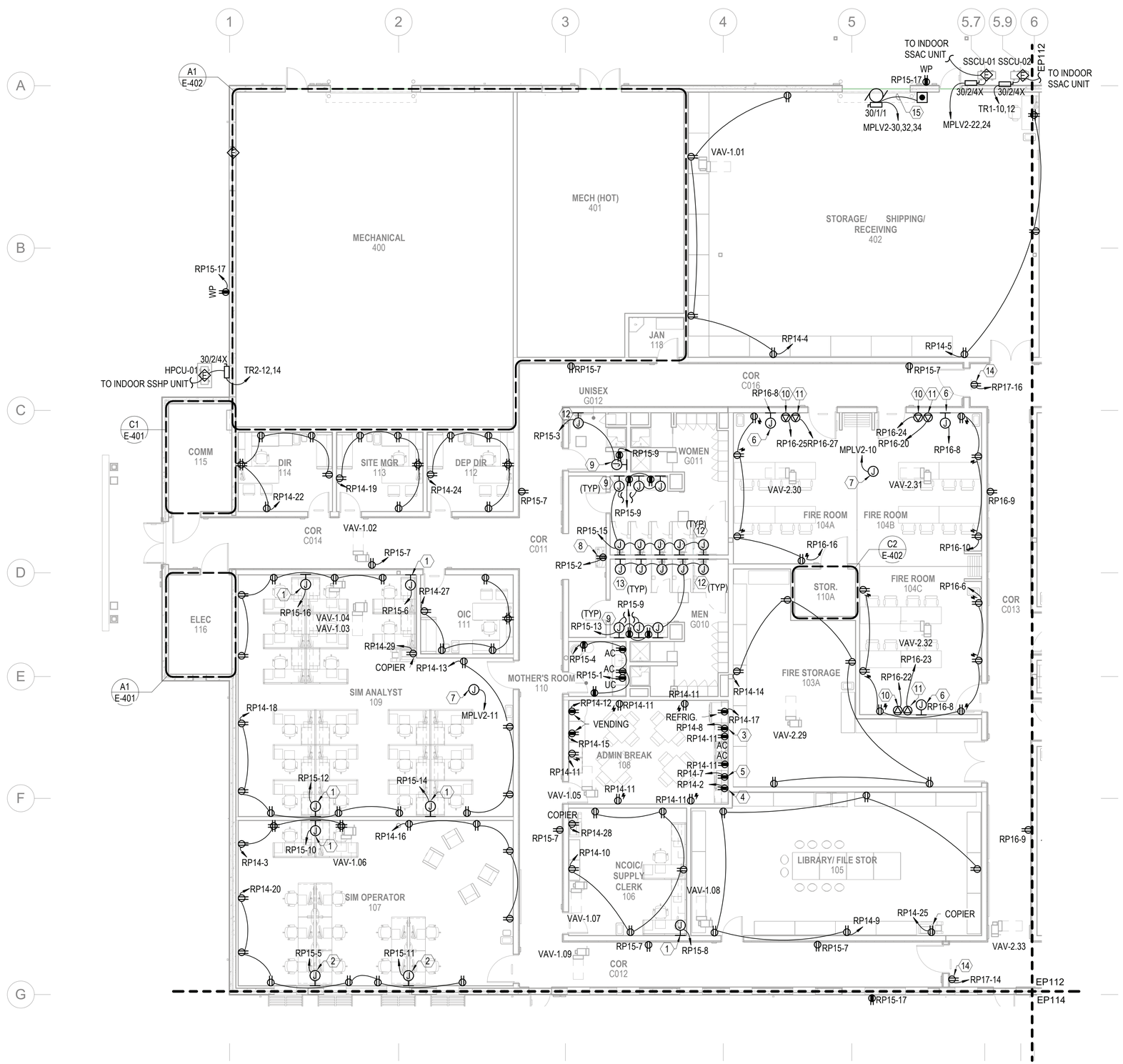
SHEET OF

EP110

PLOTTED: 6/10/2021 5:43:52 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION



A1 POWER - FIRST FLOOR PLAN - AREA A

SCALE: 1/8" = 1'-0" (EP110)

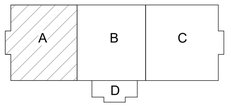
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

1. JUNCTION BOX FOR FURNITURE WHIP. COORDINATE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. JUNCTION BOX FOR FURNITURE POWER BAR. COORDINATE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. RECEPTACLE FOR MICROWAVE ON SHELF ABOVE COUNTERTOP, MOUNT RECEPTACLE AT 60" AFF.
4. GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR COFFEE POT.
5. GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR MICROWAVE.
6. DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE TO BE INSTALLED IN AV WALL BOX. REFERENCE TA-SERIES DRAWINGS FOR DETAILS, MOUNTING HEIGHT, AND LOCATION.
7. JUNCTION BOX FOR VAV LOW VOLTAGE POWER. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.
8. RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER'S RECOMMENDATIONS.
9. HARD-WIRED 120V CONNECTION FOR LAVATORY INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF LAVATORY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
10. NEMA L5-30R TWIST LOCK RECEPTACLE. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH USER.
11. NEMA 5-20R RECEPTACLE. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH USER.
12. HARD-WIRED 120V CONNECTION FOR WATER CLOSET INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF WATER CLOSET. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
13. HARD-WIRED 120V CONNECTION FOR URINAL INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF URINAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
14. DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. COORDINATE FINAL HEIGHT AND LOCATION WITH INSTALLATION OF CLOCK.
15. CONDUIT BY ELECTRICAL CONTRACTOR. LOW VOLTAGE WIRING BY OTHERS.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

SCALE: 0'-0 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

POWER - FIRST FLOOR PLAN - AREA A

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

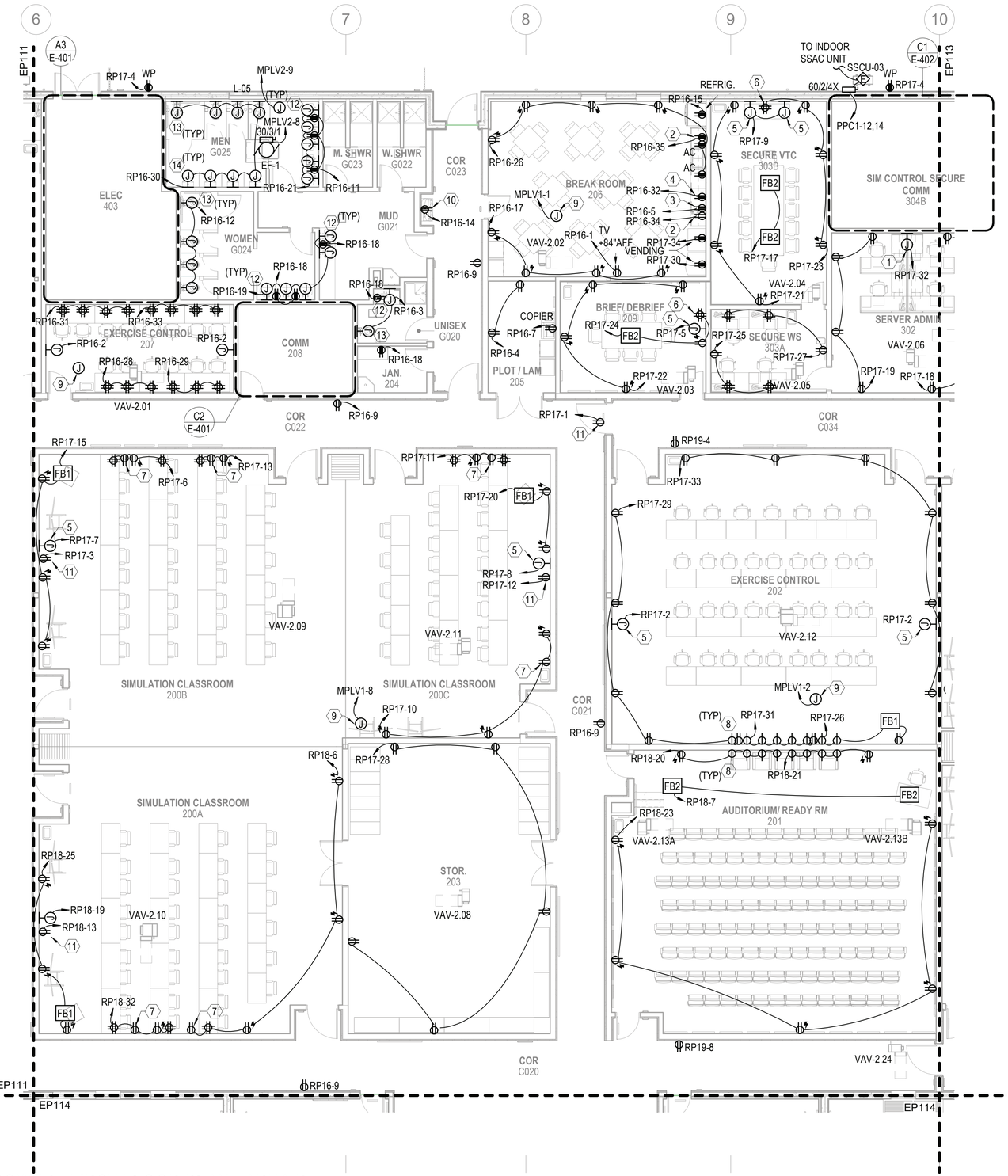
SHEET OF

EP111

DP2 SUBMISSION – P1338 BUILDING -,PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:43:56 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 POWER - FIRST FLOOR PLAN - AREA B

SCALE: 1/8" = 1'-0" (EP110)

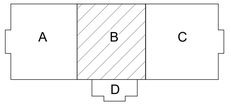
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

1. JUNCTION BOX FOR FURNITURE WHIP. COORDINATE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. RECEPTACLE FOR MICROWAVE ON SHELF ABOVE COUNTERTOP, MOUNT RECEPTACLE AT 60" AFF.
3. GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR COFFEE POT.
4. GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR MICROWAVE.
5. DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE TO BE INSTALLED IN AV WALL BOX. REFERENCE TA-SERIES DRAWINGS FOR DETAILS, MOUNTING HEIGHT, AND LOCATION.
6. AV RECESSED QUAD RECEPTACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
7. AV RECESSED DUPLEX RECETACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
8. AV RECESSED CLOCK RECEPTACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
9. JUNCTION BOX FOR VAV LOW VOLTAGE POWER. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.
10. RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER'S RECOMMENDATIONS.
11. DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. COORDINATE FINAL HEIGHT AND LOCATION WITH INSTALLATION OF CLOCK.
12. HARD-WIRED 120V CONNECTION FOR LAVATORY INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF LAVATORY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
13. HARD-WIRED 120V CONNECTION FOR WATER CLOSET INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF WATER CLOSET. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
14. HARD-WIRED 120V CONNECTION FOR URINAL INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF URINAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

KEYPLAN



0 4'-0" 8'-0" 16'-0"
SCALE: 0'-0 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

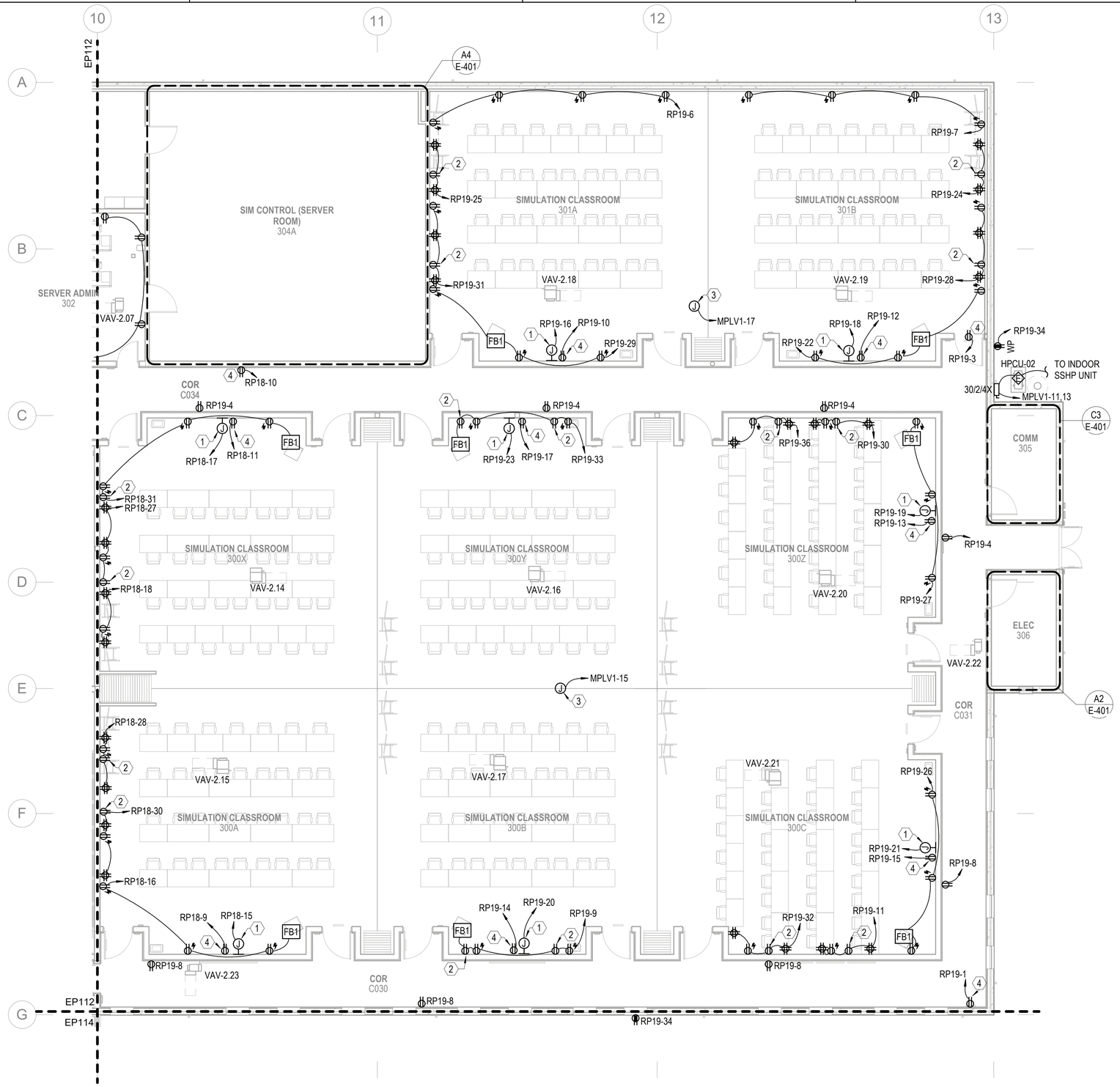
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - FIRST FLOOR PLAN - AREA B

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
EP112

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:01 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 POWER - FIRST FLOOR PLAN - AREA C

SCALE: 1/8" = 1'-0" (EP110)

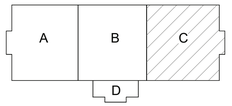
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

1. DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE TO BE INSTALLED IN AV WALL BOX. REFERENCE TA-SERIES DRAWINGS FOR DETAILS, MOUNTING HEIGHT, AND LOCATION.
2. AV RECESSED DUPLEX RECETACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
3. JUNCTION BOX FOR VAV LOW VOLTAGE POWER. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.
4. DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. COORDINATE FINAL HEIGHT AND LOCATION WITH INSTALLATION OF CLOCK.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

SCALE:0'-0 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ W.M. Jordan COMPANY ~A JOINT VENTURE~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
NAVAL FACILITIES ENGINEERING COMMAND
JACKSONVILLE, NC
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - FIRST FLOOR PLAN - AREA C

SCALE: AS NOTED

EPROJECT NO.: 15908892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

EP113

DP2 SUBMISSION – P1338 BUILDING -,-PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:05 PM

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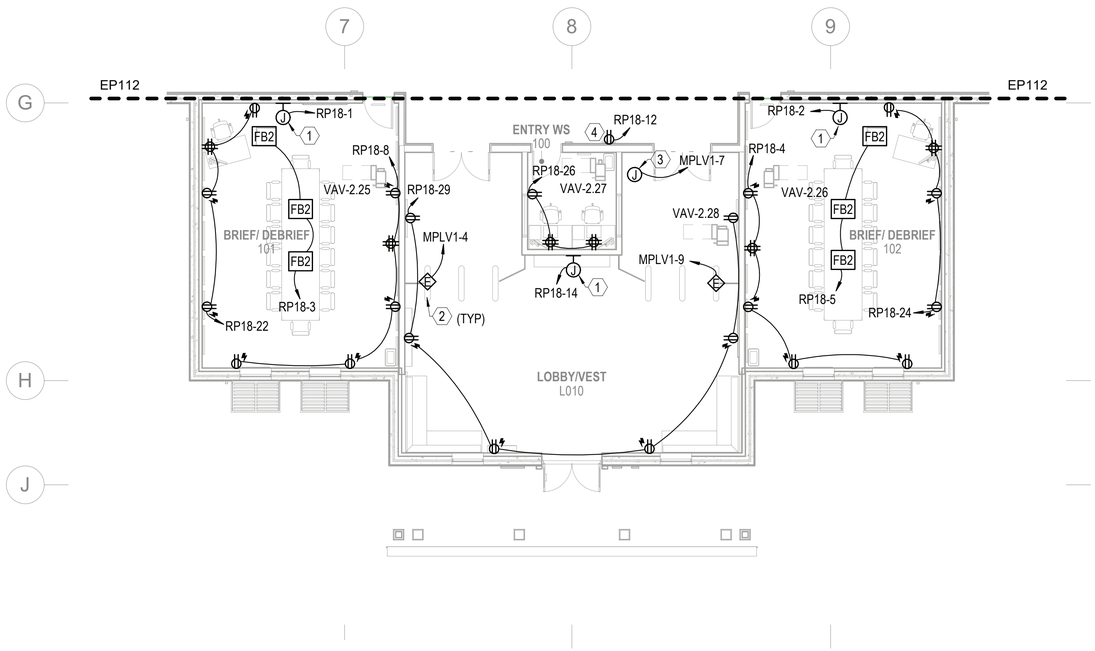


A1 POWER - FIRST FLOOR PLAN - AREA D

SCALE: 1/8" = 1'-0" (EP110)

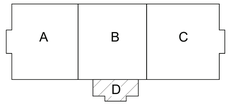
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

1. DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE TO BE INSTALLED IN AV WALL BOX. REFERENCE TA-SERIES DRAWINGS FOR DETAILS, MOUNTING HEIGHT, AND LOCATION.
2. POWER ELECTRICAL CONNECTION FOR TURNSTILE CONTROL GATE REMOTE POWER SUPPLY. COORDINATE FINAL POWER LOCATION WITH FINAL LOCATION OF REMOTE POWER SUPPLY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. JUNCTION BOX FOR VAV LOW VOLTAGE POWER. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.
4. DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. COORDINATE FINAL HEIGHT AND LOCATION WITH INSTALLATION OF CLOCK.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

SCALE: 0'-0 1/8" = 1'-0"

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
RO/CC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

POWER - FIRST FLOOR PLAN - AREA D

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

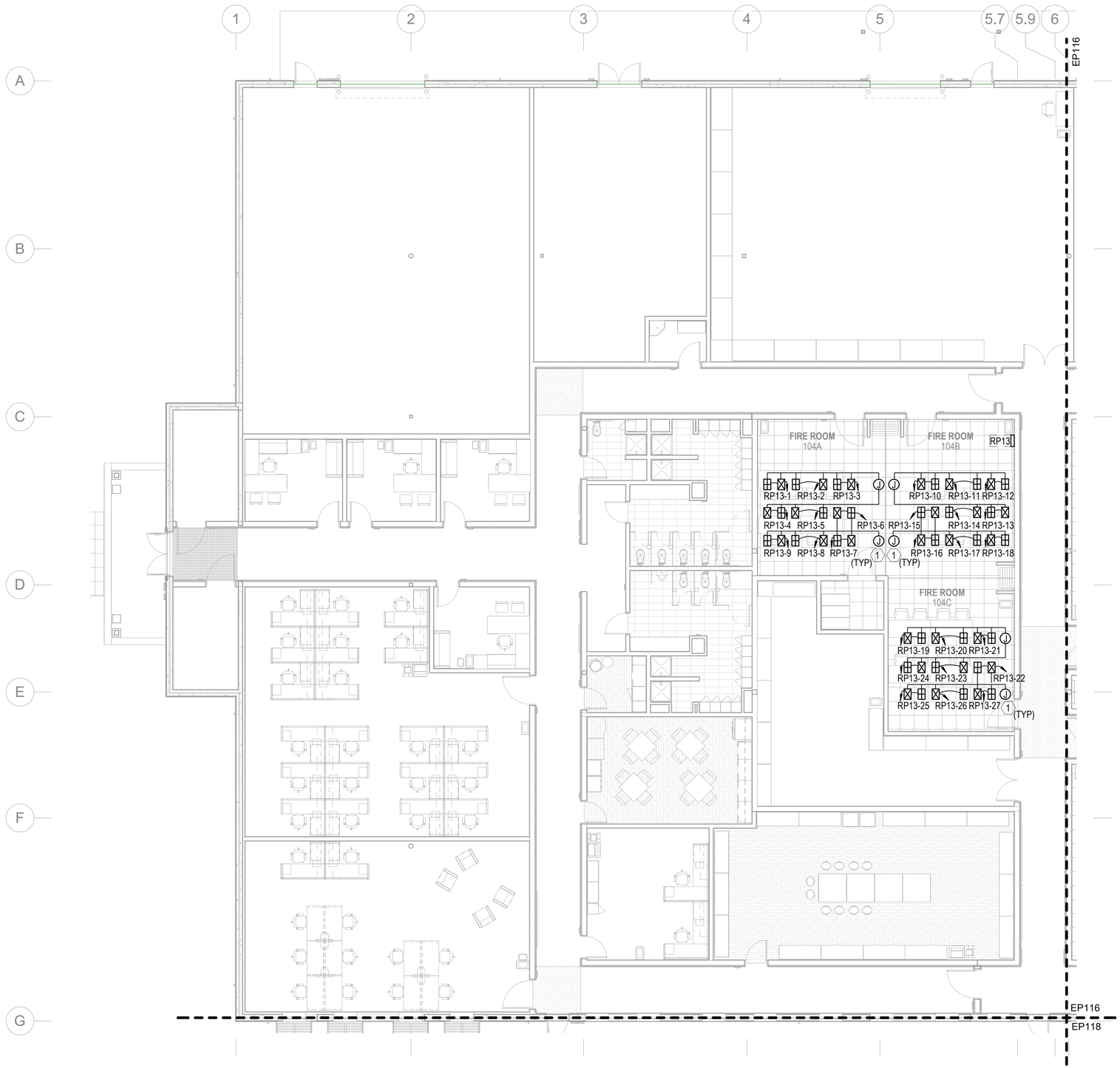
SHEET OF

EP114

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:08 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 POWER - UNDERFLOOR PLAN - AREA A

SCALE: 1/8" = 1'-0"

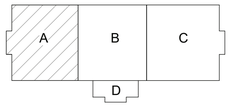
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

1. UNDERFLOOR MODULAR POWER MAIN DISTRIBUTION BOX. PREWIRED WITH HOME RUN CABLE BACK TO DESIGNATED RP PANEL WITHIN THE ROOM SERVING. COORDINATE FINAL LOCATION WITH INSTALLATION OF RAISED ACCESS FLOORING AND TELECOMMUNICATIONS CABLE TRAY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FOR MORE INFORMATION SEE SPECIFICATIONS AND DETAILS ON SHEETS E-502 AND E-503.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

SCALE: 0'-0 1/8" = 1'-0"

N

SYM	DESCRIPTION	DATE	APPR

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD DRW LAK CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

MCB CAMP LEJEUNE

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

POWER - UNDERFLOOR PLAN - AREA A

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

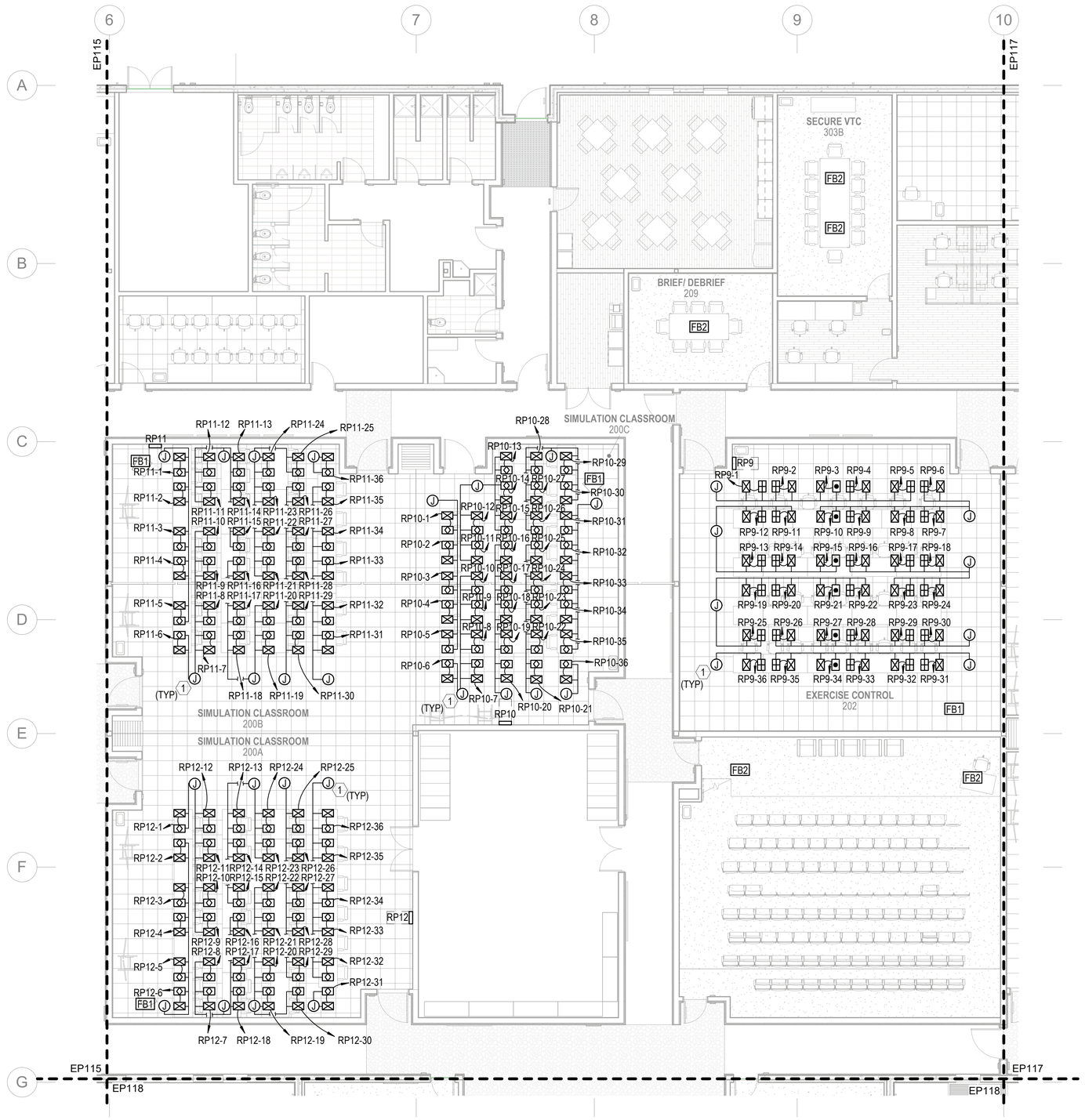
SHEET OF

EP115

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:12 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 POWER - UNDERFLOOR PLAN - AREA B

SCALE: 1/8" = 1'-0"

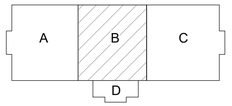
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

1. UNDERFLOOR MODULAR POWER MAIN DISTRIBUTION BOX. PREWIRED WITH HOME RUN CABLE BACK TO DESIGNATED RP PANEL WITHIN THE ROOM SERVING. COORDINATE FINAL LOCATION WITH INSTALLATION OF RAISED ACCESS FLOORING AND TELECOMMUNICATIONS CABLE TRAY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FOR MORE INFORMATION SEE SPECIFICATIONS AND DETAILS ON SHEETS E-502 AND E-503.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

SCALE: 0'-0 1/8" = 1'-0"

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
RO/CC FLORENCE CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

MCB CAMP LEJEUNE
JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

POWER - UNDERFLOOR PLAN - AREA B

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

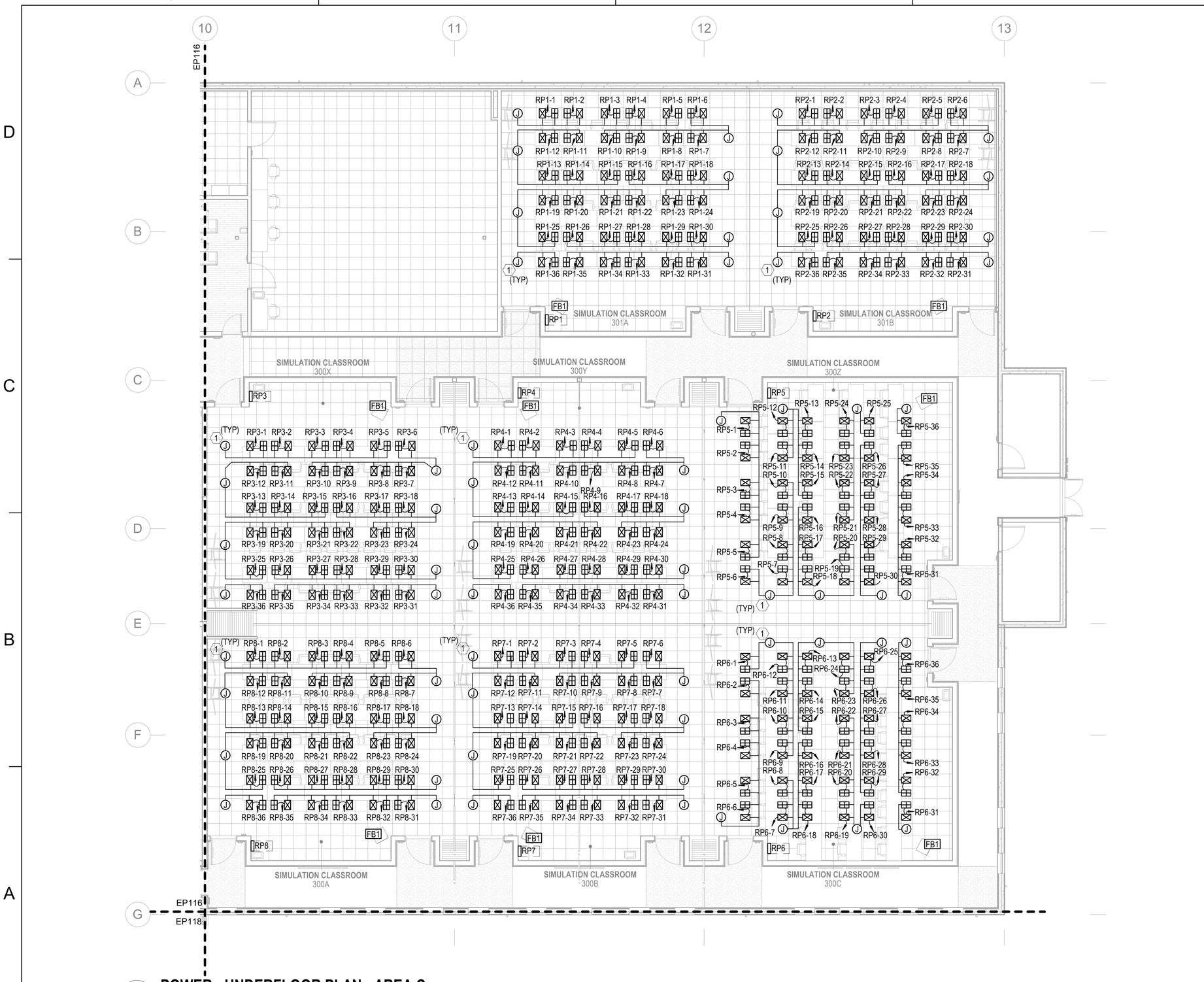
SHEET OF

EP116

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:18 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 POWER - UNDERFLOOR PLAN - AREA C

SCALE: 1/8" = 1'-0"

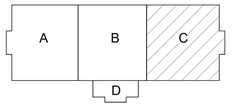
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

1. UNDERFLOOR MODULAR POWER MAIN DISTRIBUTION BOX. PREWIRED WITH HOME RUN CABLE BACK TO DESIGNATED RP PANEL WITHIN THE ROOM SERVING. COORDINATE FINAL LOCATION WITH INSTALLATION OF RAISED ACCESS FLOORING AND TELECOMMUNICATIONS CABLE TRAY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FOR MORE INFORMATION SEE SPECIFICATIONS AND DETAILS ON SHEETS E-502 AND E-503.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

SCALE: 0'-0 1/8" = 1'-0"

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ W.M. Jordan COMPANY ~A JOINT VENTURE~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
RO/CC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

POWER - UNDERFLOOR PLAN - AREA C

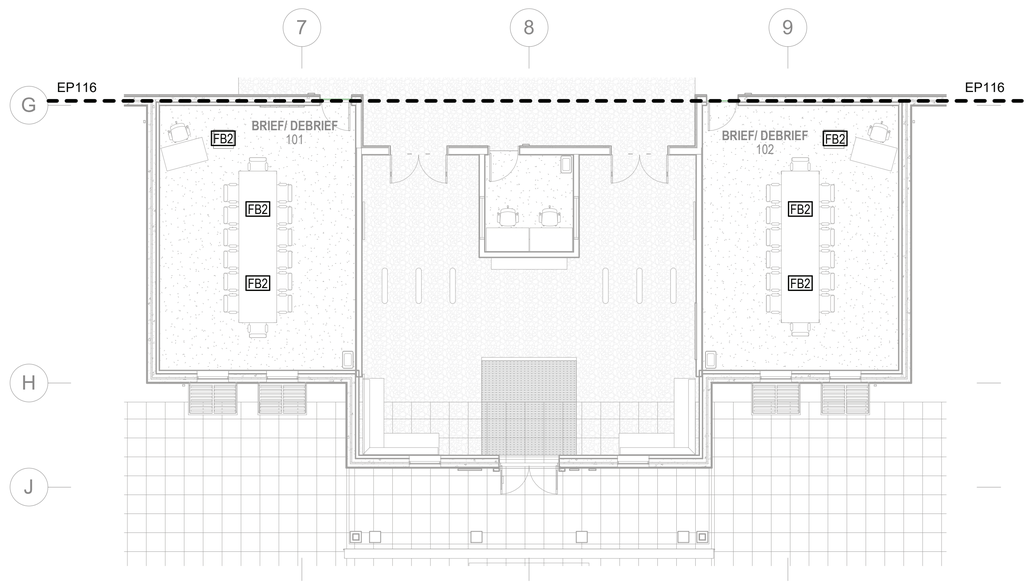
SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

EP117

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:44:24 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



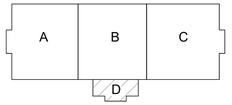
A1 POWER - UNDERFLOOR PLAN - AREA D

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

SCALE: 0'-0 1/8" = 1'-0"

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

MCB CAMP LEJEUNE

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

POWER - UNDERFLOOR PLAN - AREA D

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

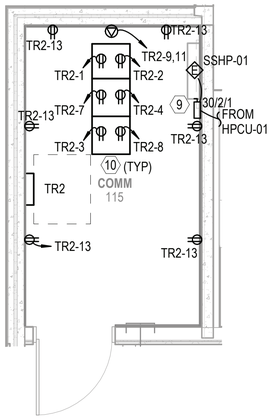
SHEET OF

EP118

PLOTTED: 6/10/2021 5:44:27 PM

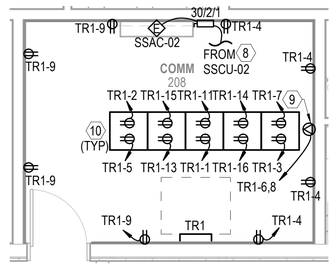
FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION



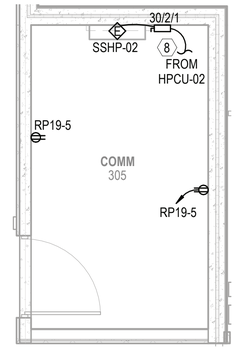
POWER - ENLARGED PLAN (C1)

SCALE: 1/4" = 1'-0" EP111



POWER - ENLARGED PLAN (C2)

SCALE: 1/4" = 1'-0" EP111



POWER - ENLARGED PLAN (C3)

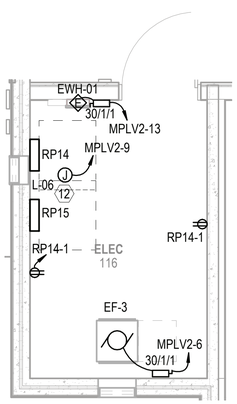
SCALE: 1/4" = 1'-0" EP111

KEYNOTES

1. AV RECESSED QUAD RECEPTACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
2. NEMA L5-30P PLUG FOR 3KVA UPS INPUT CONNECTION.
3. NEMA L5-15P PLUG FOR 1KVA UPS INPUT CONNECTION.
4. POWER ELECTRICAL CONNECTION FOR HARDWIRE INPUT TO 10KVA UPS.
5. NEMA L6-30R RECEPTACLE FOR 2KVA UPS INPUT CONNECTION.
6. PROVIDE 4-INCH THICK CONCRETE PAD WITH CHAMFERED EDGES FOR FLOOR MOUNTED EQUIPMENT. EXTEND PAD 6-INCH BEYOND EDGE OF EQUIPMENT.
7. PROVIDE FIRE-RESISTANT, HEAT-INSULATING BARRIER. COORDINATE WITH FINAL LOCATION OF TRANSFORMER.
8. INDOOR UNIT POWERED BY OUTDOOR UNIT. CONTROL WIRING BETWEEN INDOOR AND OUTDOOR UNITS BY MECHANICAL CONTRACTOR. CONDUIT AND POWER WIRING BETWEEN INDOOR AND OUTDOOR UNITS BY ELECTRICAL CONTRACTOR. SEE MECH. SCHEDULES FOR ADDITIONAL INFORMATION.
9. L6-30R TWIST LOCK RECEPTACLE - 208V, 1PH, 30A. RECEPTACLE MUST BE INSTALLED 6" ABOVE AND 6" BEHIND TELECOM RACKS ON ITS OWN DEDICATED STRUCTURE.
10. TWO (2) DEDICATED 20AMP DUPLEX RECEPTACLES PER TELECOMMUNICATIONS RACK. COORDINATE MOUNTING AND INSTALLATION OF THE RECEPTACLES WITH THE ACTIVITY.
11. TWO (2) DEDICATED 20AMP DUPLEX RECEPTACLES PER SERVER RACK. COORDINATE MOUNTING AND INSTALLATION OF THE RECEPTACLES WITH THE ACTIVITY.
12. CEILING MOUNTED JUNCTION BOX FOR POWER TO LOUVER TRANSFORMERS. 120V POWER SHALL BE PROVIDED BY THE EC TO EACH TRANSFORMER. LOW VOLTAGE WIRING FROM THE TRANSFORMER TO THE LOUVER IS BY OTHERS. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.
13. EMERGENCY POWER OFF (EPO) BOX. EACH EPO BOX HAS AN EIGHT (8) CIRCUIT CAPACITY WITH ONE CIRCUIT BEING REQUIRED FOR EACH UPS. USE THE SAME BRANCH CIRCUIT FOR ALL EPO BOXES IN THE ROOM. SEE DETAILS ON SHEETS E-504 AND E-505 FOR MORE INFORMATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

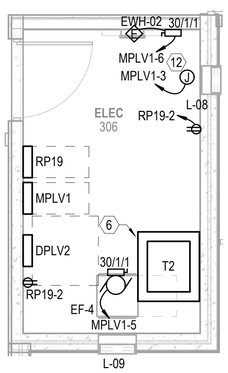
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.



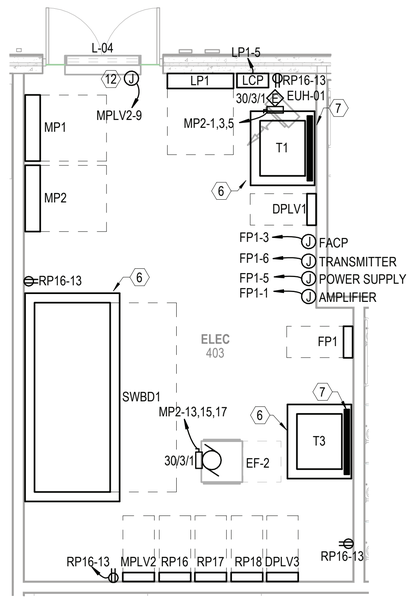
POWER - ENLARGED PLAN (A1)

SCALE: 1/4" = 1'-0" EP111



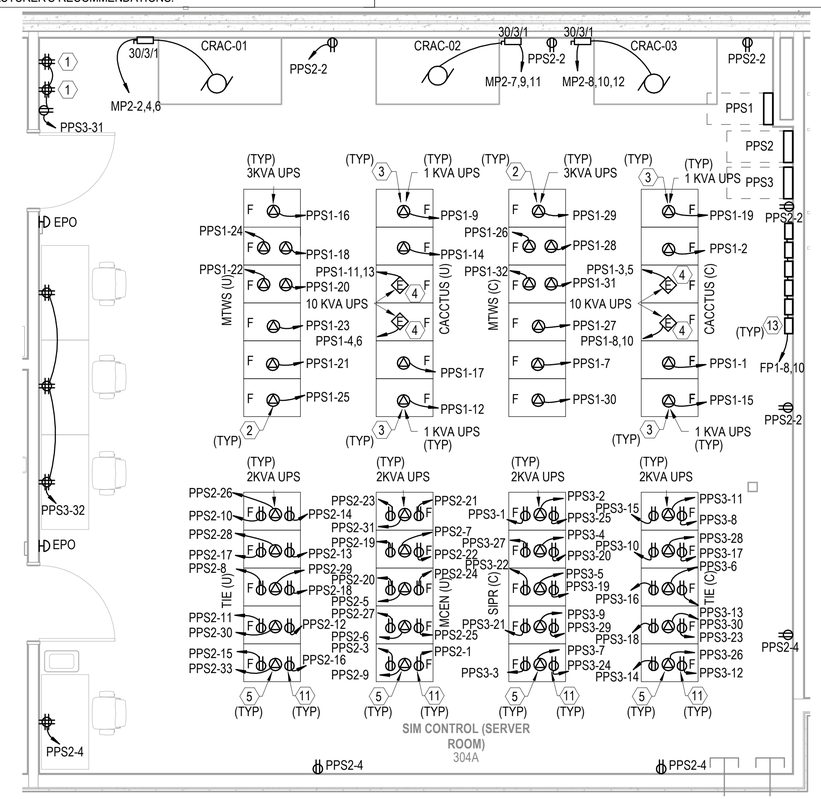
POWER - ENLARGED PLAN (A2)

SCALE: 1/4" = 1'-0" EP111



POWER - ENLARGED PLAN (A3)

SCALE: 1/4" = 1'-0" EP111



POWER - ENLARGED PLAN (A4)

SCALE: 1/4" = 1'-0" EP111

0 2'-0" 4'-0" 8'-0"

SCALE: 0'-0 1/4" = 1'-0"

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD DRW LAK CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - ENLARGED PLANS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

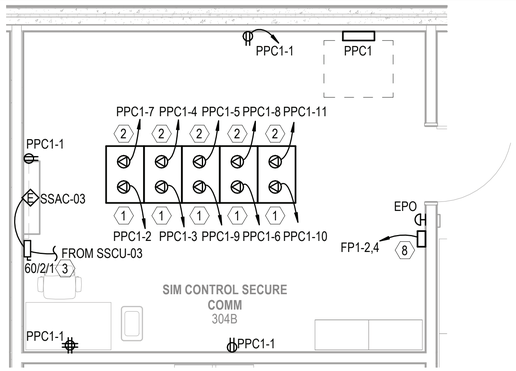
SHEET OF

E-401

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

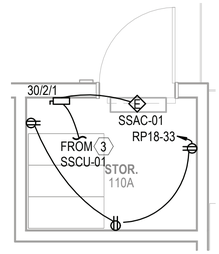
PLOTTED: 6/10/2021 5:41:59 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



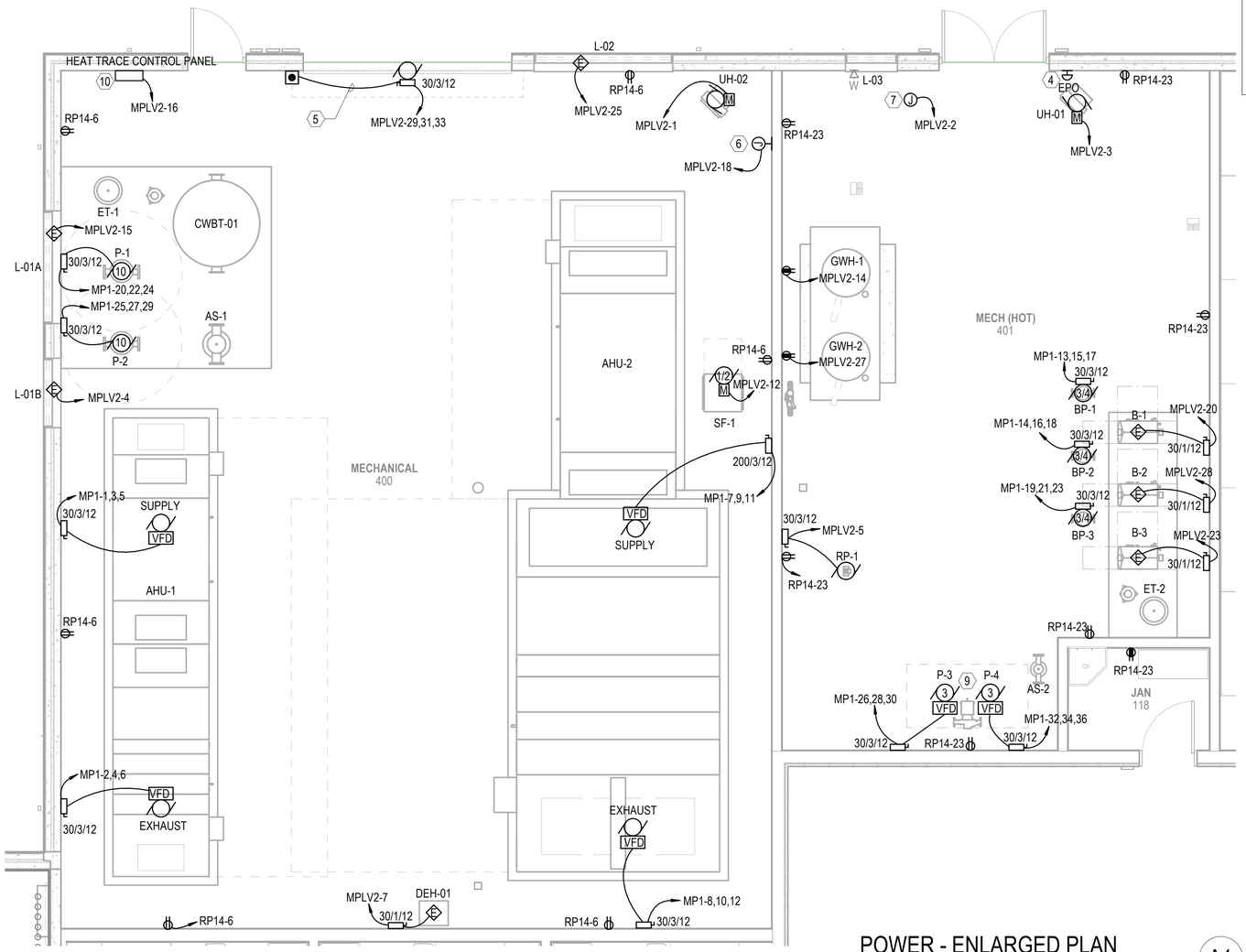
POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" EP111 C1



POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" EP111 C2



POWER - ENLARGED PLAN

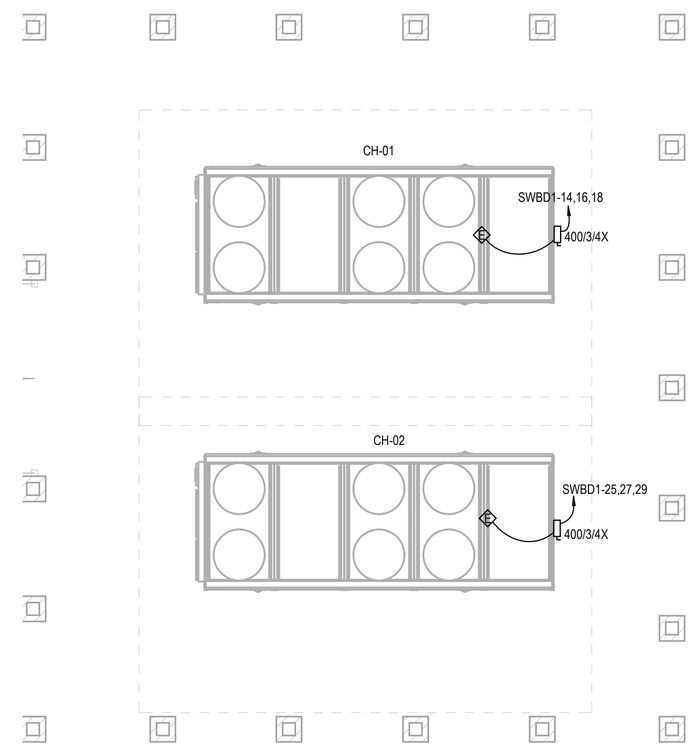
SCALE: 1/4" = 1'-0" EP111 A1

KEYNOTES

1. NEMA L5-30R RECEPTACLE FOR TELECOMMUNICATIONS RACK. MOUNT RECEPTACLE ABOVE TELECOMMUNICATIONS RACK.
2. NEMA 5-20R RECEPTACLE FOR TELECOMMUNICATIONS RACK. MOUNT RECEPTACLE ABOVE TELECOMMUNICATIONS RACK.
3. INDOOR UNIT POWERED BY OUTDOOR UNIT. CONTROL WIRING BETWEEN INDOOR AND OUTDOOR UNITS BY MECHANICAL CONTRACTOR. CONDUIT AND POWER WIRING BETWEEN INDOOR AND OUTDOOR UNITS BY ELECTRICAL CONTRACTOR. SEE MECH. SCHEDULES FOR ADDITIONAL INFORMATION.
4. PROVIDE EMERGENCY POWER OFF MUSHROOM STYLE PUSH OFF/PULL ON WITH CLEAR COVER. PROVIDE LABEL FOR SWITCH: "EMERGENCY BOILER SHUT OFF SWITCH. PULL TO RESET." COMPLY WITH ALL ASME CSD-1 REQUIREMENTS. CONFIRM LOCATION WITH AUTHORITY HAVING JURISDICTION (AHJ) FOR APPROVAL PRIOR TO INSTALLING.
5. CONDUIT BY ELECTRICAL CONTRACTOR. LOW VOLTAGE WIRING BY OTHERS.
6. PROVIDE 120V POWER CONNECTION FOR DDC CONTROLLER. COORDINATE EXACT LOCATION WITH MECHANICAL/CONTROLS CONTRACTOR PRIOR TO ROUGH IN.
7. CEILING MOUNTED JUNCTION BOX FOR POWER TO LOUVER TRANSFORMERS. 120V POWER SHALL BE PROVIDED BY THE EC TO EACH TRANSFORMER. LOW VOLTAGE WIRING FROM THE TRANSFORMER TO THE LOUVER IS BY OTHERS. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.
8. EMERGENCY POWER OFF (EPO) BOX. EACH EPO BOX HAS AN EIGHT (8) CIRCUIT CAPACITY WITH ONE CIRCUIT BEING REQUIRED FOR EACH UPS. USE THE SAME BRANCH CIRCUIT FOR ALL EPO BOXES IN THE ROOM. SEE DETAILS ON SHEETS E-504 AND E-505 FOR MORE INFORMATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
9. PUMPS ARE VERTICALLY STACKED. COORDINATE WITH INSTALLATION OF THE PUMPS.
10. ELECTRICAL CONNECTION FOR CHILLER HEAT TRACING CONTROL PANEL. COORDINATE EXACT POWER CONNECTION LOCATION WITH MECHANICAL DRAWINGS PRIOR TO ROUGH IN. PROVIDE 20A BREAKER WITH 30mA GROUND FAULT TRIP. ALL WIRING AND INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.



POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" ES101 A4

0 2'-0" 4'-0" 8'-0"

SCALE: 0'-0 1/4" = 1'-0"

N

STM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

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FOR COMMANDER NAVFAC

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MARINE CORPS BASE
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NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - ENLARGED PLANS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

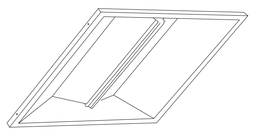
E-402

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:04 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

FIXTURE: A1, A2, A3, B1, C1



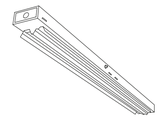
LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-FORMED, COLD ROLLED STEEL, WITH ONE-PIECE LOWER REFLECTOR HAVING TEXTURED, HIGH REFLECTANCE, WHITE POLYESTER POWDER-COATED FINISH. OPTIONAL SIZES OF 1FT x 4FT, 2FT x 2FT, AND 2FT x 4FT AVAILABLE.
2. LIGHT SOURCE - UPWARD-FACING LEDS WITH DIFFUSE LENS TO ELIMINATE DIRECT VIEW OF LIGHT SOURCE. 4000K COLOR TEMPERATURE UON, MAXIMUM BINNING TOLERANCE OF A 4-STEP MCADAM ELLIPSE, MINIMUM EFFICACY OF 90 LUMENS/WATT, WITH A MINIMUM CRI OF 82. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
3. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED IN LUMINAIRE SCHEDULE.
4. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. IC RATED WHEN INDICATED.
5. MOUNTING - RECESSED IN SUSPENDED ACOUSTICAL TILE OR HARD CEILING.
6. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

DIRECT/INDIRECT LED TROFFER

REVISED:	APRIL 2016	LIGHTING PLATE:	NL-1

FIXTURE: E1, S1



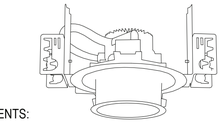
LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY AND SPECULAR ALUMINUM OR HIGHLY-REFLECTIVE PAINTED STEEL REFLECTORS. OPTIONAL LENGTHS OF 4FT OR 8FT.
2. FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH-REFLECTANCE, WHITE POLYESTER POWDER COAT, PAINTED AFTER FABRICATION.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 4000K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 100 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - SURFACE ON CEILING OR SUSPENDED
7. OPTIONS - WIRE GUARD, CHAIN, STEM OR SWIVEL STEM HANGERS.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED INDUSTRIAL STRIP

REVISED:	APRIL 2016	LIGHTING PLATE:	NL-7

FIXTURE: D1, D2, D3, D4, D5



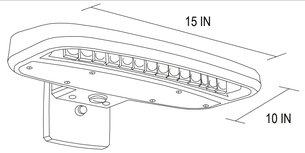
LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-FORMED, COLD-ROLLED STEEL, OR FORGED ALUMINUM WITH HEAT SINK. DRIVER MUST BE ACCESSIBLE FROM BOTTOM OF LUMINAIRE. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILINGS OR TABS WHEN MOUNTING IN HARD CEILINGS.
2. REFLECTOR AND TRIM - SPECIFICATION GRADE, LOW IRRIDESCENT, SPECULAR ALUMINUM REFLECTOR WITH METALLIC OR PAINTED TRIM RING.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 4000K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 90 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - RECESSED IN HARD OR ACOUSTICAL TILE CEILING.
7. OPTIONS - EMERGENCY BATTERY BACK-UP, WALL-WASH TRIM, IC RATED FOR DIRECT CONTACT WITH INSULATION, VARIOUS APERTURE DIAMETERS, AND VARIOUS GLASS LENSES.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED RECESSED DOWNLIGHT

REVISED:	APRIL 2016	LIGHTING PLATE:	NL-19

FIXTURE: W1



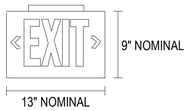
LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-CAST OR EXTRUDED ALUMINUM WITH INTEGRAL PASSIVE COOLING MECHANISM. HEAT SINK SHALL BE INCORPORATED DIRECTLY INTO HOUSING OR DRIVER COMPARTMENT TO ENSURE MAXIMUM HEAT TRANSFER AND DISSIPATION.
2. FINISH - MULTI-STAGE PRE-TREATMENT, FINISHED WITH BAKED-ON POLYESTER POWDER COAT. FINISH SHALL PASS 2500 HOUR SALT SPRAY TEST PER ASTM B117. STANDARD FINISH IS DARK BRONZE, WITH OTHER CUSTOM COLORS AVAILABLE.
3. POWER SUPPLY/LED DRIVER - CLASS 1 DRIVER SHALL OPERATE AT 120/277 VOLTS, 50/60 HZ, WITH OTHER VOLTAGES OPTIONAL; POWER FACTOR GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. MINIMUM EFFICACY SHALL BE 60 LM/W AT MAXIMUM 600mA OPERATING CURRENT.
4. LED OPTICAL ASSEMBLY - PRECISION MOLDED ACRYLIC LENS PROVIDED FOR MULTIPLE HIGH-POWERED LEDS PRODUCING NEMA TYPE III DISTRIBUTION OR AS OTHERWISE INDICATED. BUG UPLIGHT RATING OF U0, WITH GLARE RATING AS DETERMINED BY LIGHTING ZONE INSTALLED. MINIMUM COLOR RENDERING INDEX (CRI) SHALL BE 70 FOR CORRELATED COLOR TEMPERATURE (CCT) OF 4000-4500 DEGREES K.
5. CERTIFICATION - UL AND/OR ETL LISTED FOR DAMP OR WET LOCATIONS AS INDICATED, AND RoHS COMPLIANT.
6. OPTIONS - VARIOUS LUMEN OUTPUT RATING AS INDICATED, PHOTOCELL, AND 0-10 VOLT DIMMING DRIVER.
7. OTHER - THE ABOVE SKETCH IS A NON-PROPRIETY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

LED WALL PACK

REVISED:	MARCH 2013	LIGHTING PLATE:	XL-17

FIXTURE: EX



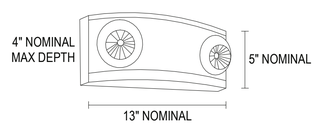
LUMINAIRE REQUIREMENTS:

1. HOUSING - HIGH-IMPACT, UV-STABILIZED, INJECTION-MOLDED THERMOPLASTIC. SINGLE OR DOUBLE-FACED AS INDICATED.
2. LETTERS/CHEVRONS - MINIMUM 6" HIGH WITH 3/4" STROKE. RED OR GREEN LETTERS AS INDICATED. PROVIDE CHEVRONS AS INDICATED EITHER LEFT, RIGHT, OR BOTH DIRECTIONS AS INDICATED. CHEVRONS PUNCHED OUT THROUGH HOUSING AS REQUIRED.
3. EMERGENCY PACK - SOLID-STATE, CONSTANT-CURRENT TYPE BATTERY CHARGER WITH MAINTENANCE-FREE, NICKEL-CADMIUM BATTERY, AC-ON INDICATOR LAMP AND TEST SWITCH.
4. MOUNTING - UNIVERSAL MOUNTING KIT FOR CEILING, WALL, OR END OF FIXTURE MOUNTING.
5. ILLUMINATION - PROVIDED BY RED, GREEN, OR WHITE HIGH-OUTPUT LEDS INSIDE OF FIXTURE HOUSING. PROVIDE POLYSTYRENE DIFFUSER IN COLOR INDICATED WITH FREQUENCY-MATCHED SILKSCREEN COATING FOR MAXIMUM LED LIGHT OUTPUT.
6. CERTIFICATION - UL LISTED AND CERTIFIED FOR DAMP LOCATIONS.

LED EXIT SIGN

REVISED:	AUGUST 2004	LIGHTING PLATE:	NL-63

FIXTURE: ELU



LUMINAIRE REQUIREMENTS:

1. HOUSING - UV STABLE, FLAME-RATED, HIGH-IMPACT THERMOPLASTIC IN WHITE OR BLACK TEXTURED FINISH.
2. INTERNAL COMPONENTS - FULLY AUTOMATIC, SOLID STATE, CONSTANT VOLTAGE, CURRENT-LIMITED BATTERY CHARGER; MAINTENANCE-FREE LEAD-ACID BATTERY; AND BUILT-IN OVERLOAD AND LOW-VOLTAGE BATTERY PROTECTION.
3. EXTERIOR HOUSING INDICATORS - LED AC-ON INDICATOR AND INTEGRAL TEST SWITCH.
4. LAMP HEADS - UV STABLE, FLAME RATED POLYCARBONATE THERMOPLASTIC. MR16 HALOGEN LAMPS SHALL BE 5 WATTS, HIGH-OUTPUT, OR AS INDICATED IN LIGHTING FIXTURE SCHEDULE.
5. MOUNTING - DIRECTLY TO 4" OCTAGONAL OR SQUARE OUTLET BOX.
6. CERTIFICATION - UL LISTED AND LABELED. COMLIES WITH UL 924 AND NFPA 101 REQUIREMENTS. LISTED FOR DAMP LOCATIONS.
7. OPTIONS - VOLTMETER, VANDEL-RESISTANT SHIELD, SELF-DIAGNOSTIC/TESTING ELECTRONICS, AND WIRE GUARD

DECORATIVE EMERGENCY LIGHTING UNIT

REVISED:	AUGUST 2004	LIGHTING PLATE:	NL-67

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

E-501

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:05 PM

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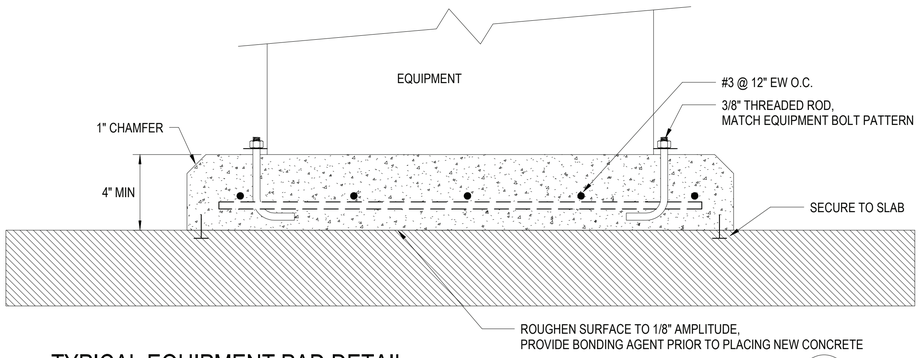
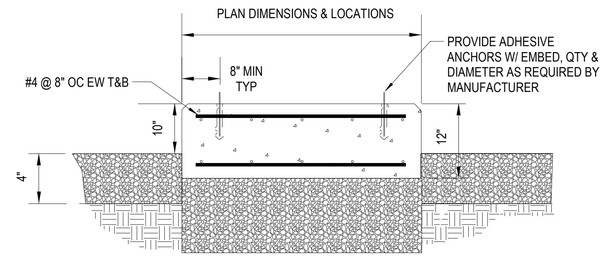


TYPICAL EQUIPMENT PAD DETAIL

SCALE:NTS

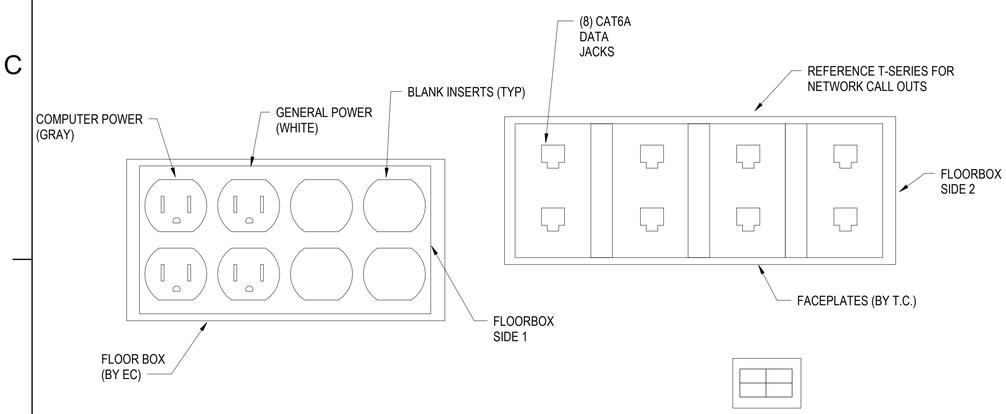
C1



GENERATOR PAD DETAIL

SCALE:NTS

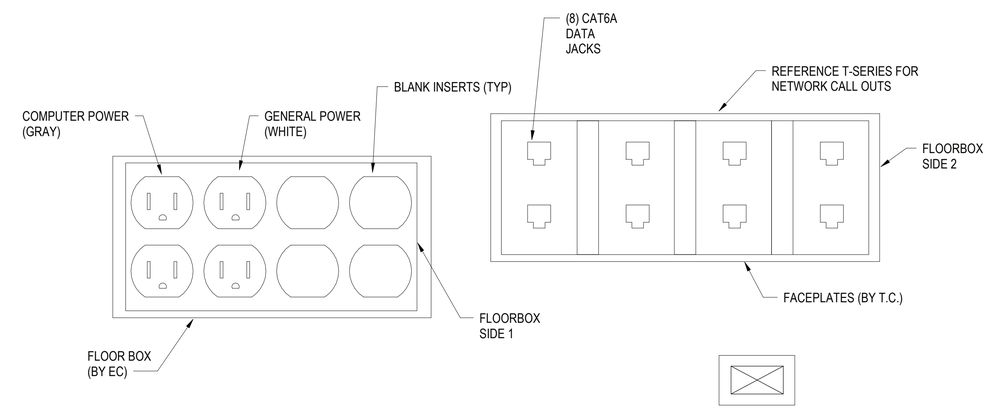
C3



TYPICAL FLOORBOX FACEPLATES - CLASSIFIED

SCALE:NTS

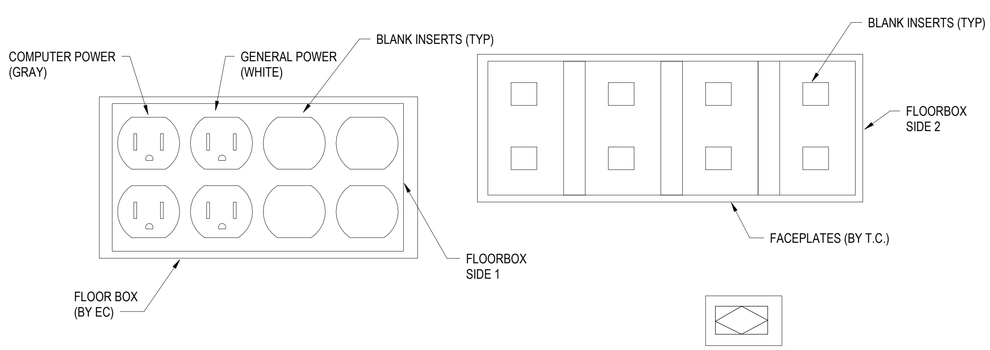
B1



TYPICAL FLOORBOX FACEPLATES - UNCLASSIFIED

SCALE:NTS

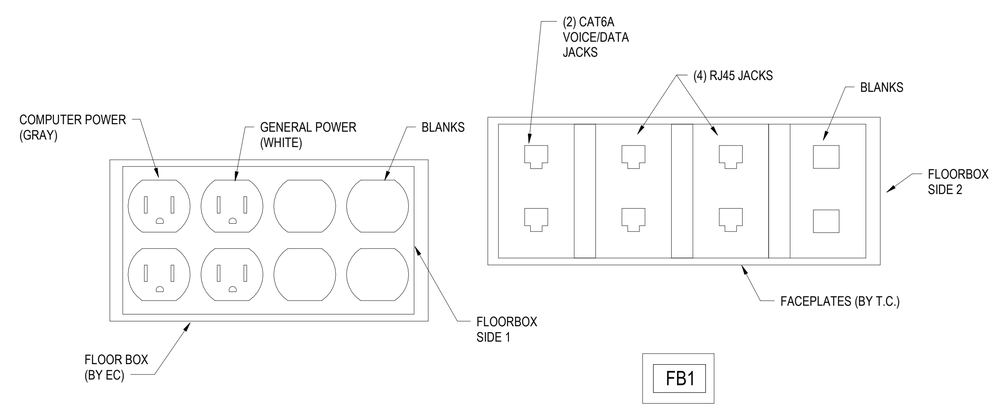
B3



TYPICAL FLOORBOX FACEPLATES - POWER ONLY

SCALE:NTS

A1



TYPICAL FLOORBOX FACEPLATES - FB1

SCALE:NTS

A3

SYM	DESCRIPTION	DATE	APPR

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

E-502

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:06 PM

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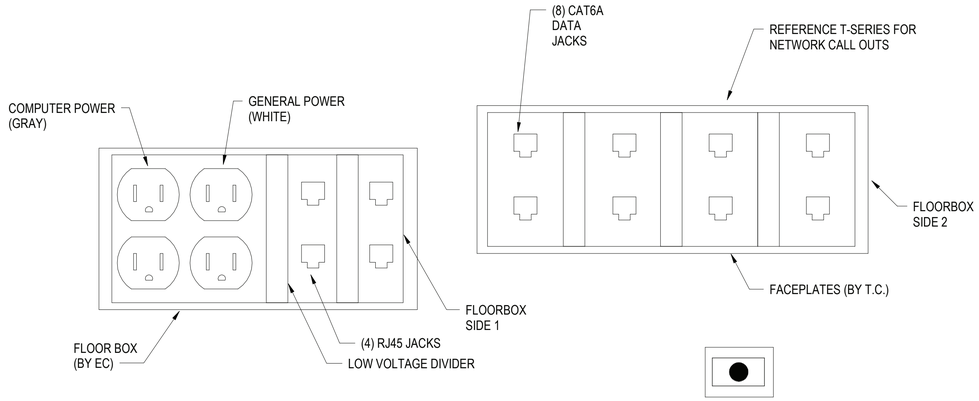
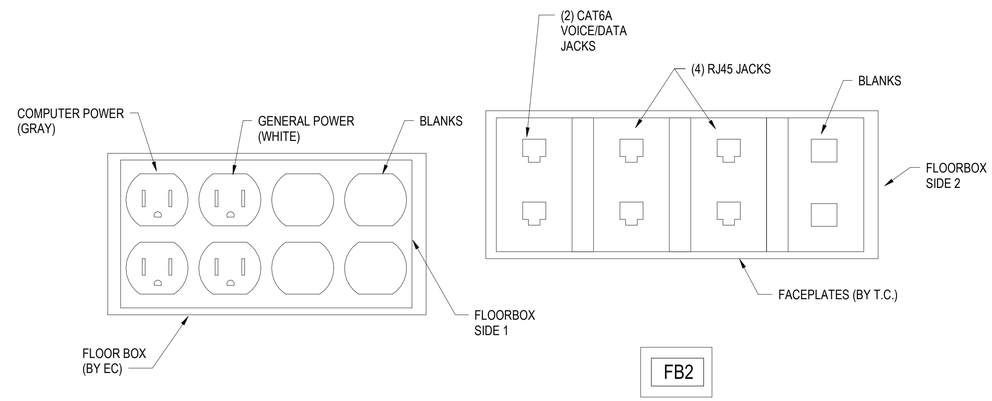


TYPICAL FLOORBOX FACEPLATES - CLASSIFIED WITH AV

SCALE:NTS

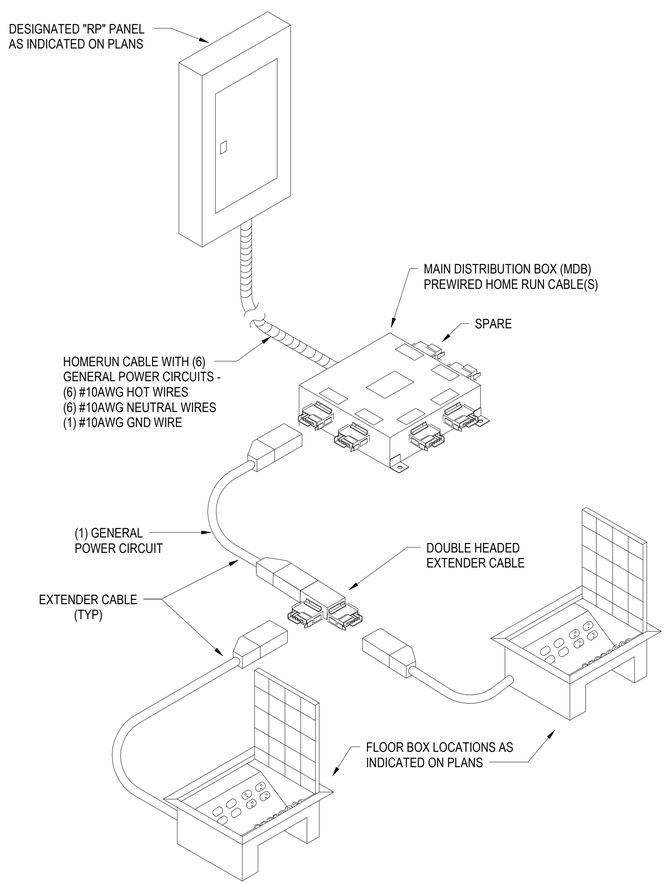
C1



TYPICAL FLOORBOX FACEPLATES - SLAB ON GRADE

SCALE:NTS

C3



TYPICAL MODULAR POWER DISTRIBUTION SYSTEM

SCALE:NTS

A1

SYM	DESCRIPTION	DATE	APPR

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

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ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

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CHIEF ENG/ARCH

FIRE PROTECTION

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NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER

REPLACEMENT

ELECTRICAL - DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

E-503

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

UNCLASSIFIED

PLOTTED: 6/10/2021 5:42:07 PM

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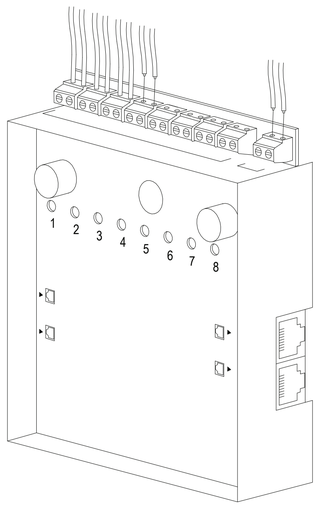
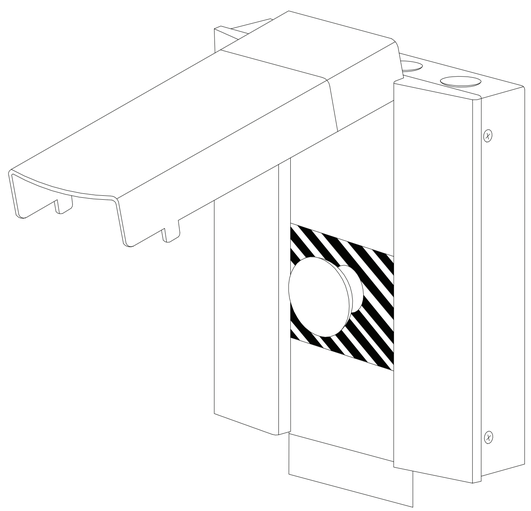


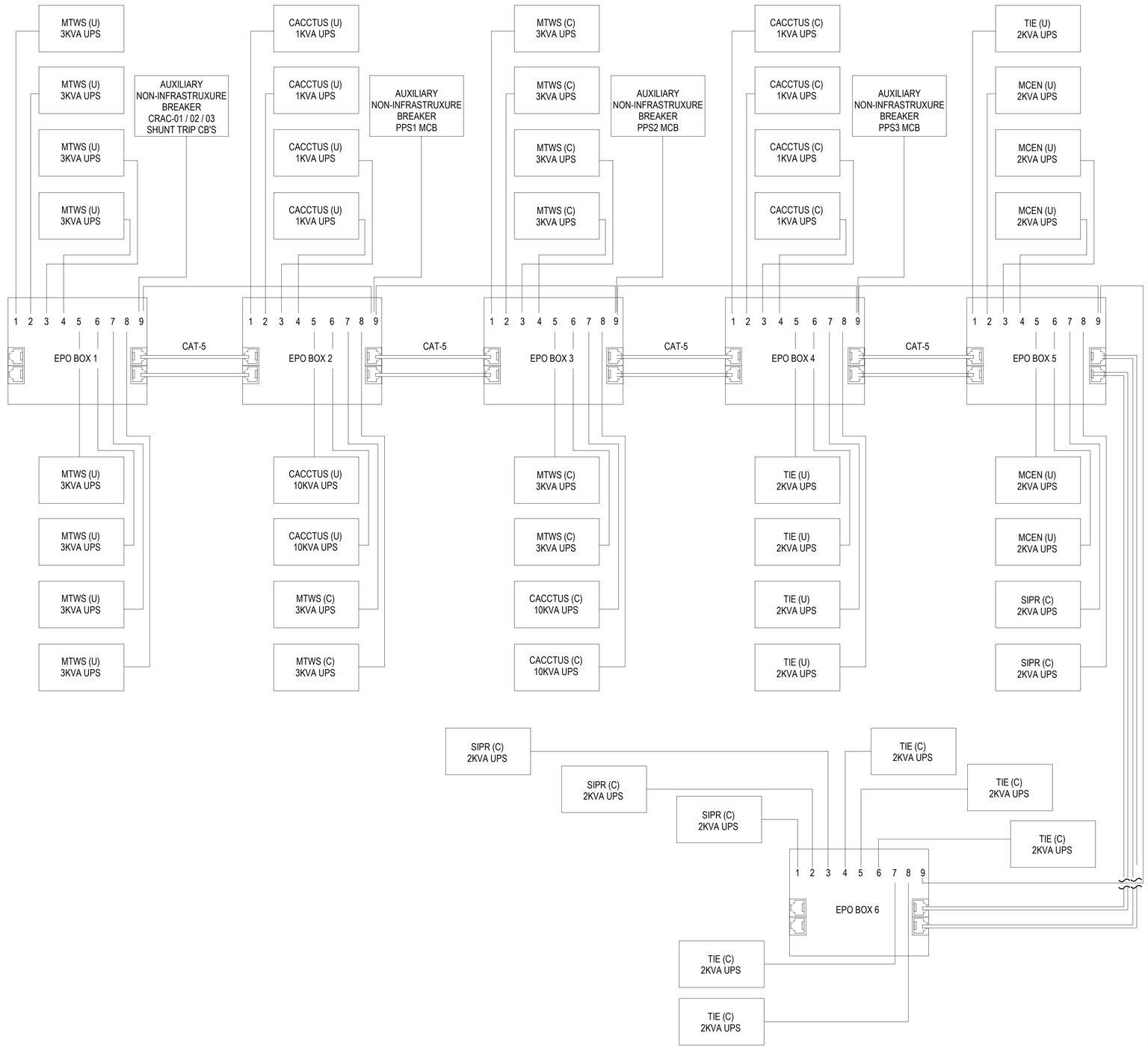
EMERGENCY POWER OFF (EPO) BOX - WIRING TERMINALS (INTERNAL) C1

SCALE:NTS



EMERGENCY POWER OFF (EPO) SYSTEM - SWITCH A1

SCALE:NTS



EMERGENCY POWER OFF (EPO) SYSTEM - WIRING DIAGRAM (SERVER ROOM) A3

SCALE:NTS

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

A/E INFO

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FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

E-504

PLOTTED: 6/10/2021 5:42:08 PM

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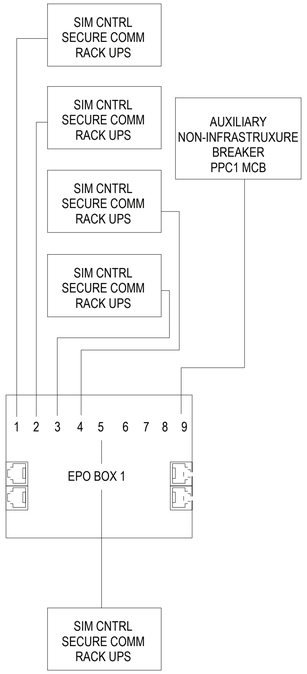
DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION



EMERGENCY POWER OFF (EPO) SYSTEM - WIRING DIAGRAM (SECURE COMM)

SCALE:NTS

B1

SYM	DESCRIPTION	DATE	APPR.

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

A/E INFO

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ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER

REPLACEMENT

ELECTRICAL - DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

E-505

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:09 PM

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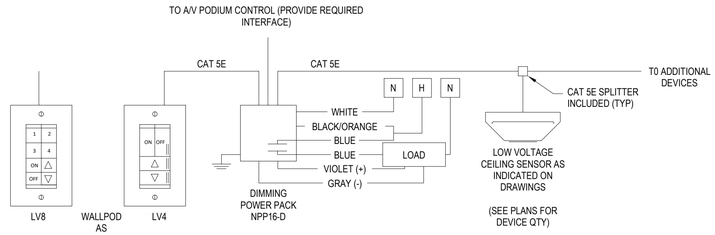
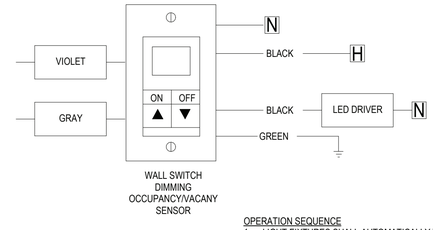


ZONING FOR 8 BUTTON SWITCHES
1. PROVIDE CONTROL OF UP TO 4 ZONES OF LIGHT (3 ZONES FOR CLASSROOMS).
2. PROVIDE WITH RAISE/LOWER AND ON/OFF.
3. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES SHALL TURN OFF.
4. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS.
5. PROVIDE INTERFACE FOR LIGHTING CONTROL FROM A/V PODIUM CONTROL, AT ALL PODIUM LOCATIONS.

OPERATION SEQUENCE
1. LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON TO 50% FOR OCCUPANCY.
2. LIGHT FIXTURE SHALL CONTINUOUSLY DIM / BRIGHTEN BASED UPON INPUT FROM THE DIMMER.
3. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES SHALL TURN OFF.
4. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS.

CEILING OCCUPANCY / VACANCY SENSOR - DIMMING (C1)

SCALE:NTS

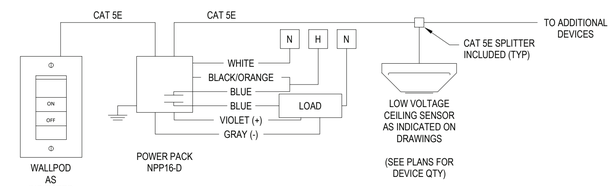


GENERAL NOTES
1. ALL LIGHTING CONTROL BUTTONS TO BE ENGRAVED FOR REQUIRED FUNCTIONALITY .
2. FINAL SCENE PRESET TO BE DESIGNATED BY OWNER.
3. ALL CATE 5E CABLES NEED TO BE CHECKED WITH A CAT5E METER FOR PROPER TERMINATION OF RJ45 CONNECTORS.
4. PROVIDE INTERFACE FOR LIGHTING CONTROL AT A/V PODIUM CONTROL, AT ALL PODIUM LOCATIONS.

OPERATION SEQUENCE
1. LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON TO 50% FOR OCCUPANCY
2. LIGHT FIXTURE SHALL CONTINUOUSLY DIM / BRIGHTEN BASED UPON INPUT FROM THE DIMMER.
3. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES SHALL TURN OFF.
4. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS

WALL SWITCH OCCUPANCY / VACANCY SENSOR - DIMMING (C3)

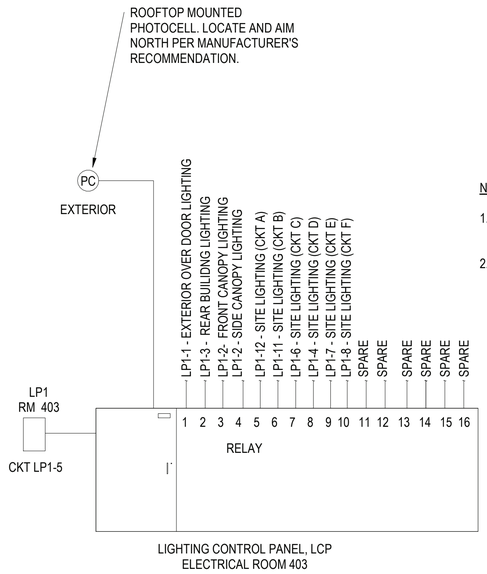
SCALE:NTS



OPERATION SEQUENCE
1. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES SHALL TURN OFF.
2. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS.
3. FINAL SCENE PRESET (DIMMING) TO BE AS SELECTED BY OWNER.

CEILING OCCUPANCY / VACANCY SENSOR - NON DIMMING (B3)

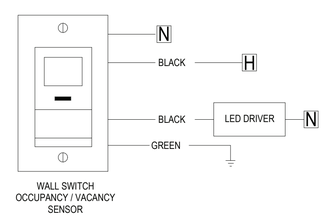
SCALE:NTS



NOTES:
1. SEGREGATE CIRCUITS IN PANEL PER MANUFACTURER RECOMMENDATIONS IN ORDER TO MEET ALL APPLICABLE CODES AND STANDARDS.
2. EXTERIOR BUILDING LIGHTS ARE TO HAVE TIMED ON/OFF WITH PHOTOCELL OVERRIDE.

TYPICAL EXTERIOR LTG CONTROL WIRING DIAGRAM (A1)

SCALE:NTS



OPERATION SEQUENCE
1. LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON TO 100%.
2. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES SHALL TURN OFF.
3. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS

WALL SWITCH OCCUPANCY / VACANCY SENSOR - NON-DIMMING (A3)

SCALE:NTS

SYM	DESCRIPTION	DATE	APPR

SEAL

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
NAVAL FACILITIES ENGINEERING COMMAND
JACKSONVILLE, NC
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - LIGHTING CONTROL DIAGRAMS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
E-506

DP2 SUBMISSION – P1338 BUILDING -PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:10 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	MANUFACTURER / CATALOG #	LAMP TYPE	LAMP QTY	INPUT WATTAGE	VOLTAGE	REMARKS
A1	2' x 4' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT4 40L ADPT LP835 / OR APPROVED EQUAL	LED 82 CRI, 4000 LUMENS 3500K CCT	---	31	MVOLT	
A2	2' x 4' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT4 48L ADP LP835/ OR APPROVED EQUAL	LED 82 CRI, 4800 LUMENS 3500K CCT	---	38	MVOLT	
A3	2' x 4' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT4 60L ADP LP835/ OR APPROVED EQUAL	LED 82 CRI, 6000 LUMENS 3500K CCT	---	46	MVOLT	
B1	2' x 2' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT2 20L ADP LP835/ OR APPROVED EQUAL	LED 82 CRI, 2000 LUMENS 3500K CCT	---	16	MVOLT	
C1	2' x 4' LED RECESSED FLAT PANEL	RECESSED	LITHONIA LIGHTING EPANL 2X4 3000LM 80CRI 35K / OR APPROVED EQUAL	LED 80 CRI, 3000 LUMENS 3500K CCT	---	26	MVOLT	
D1	6" RECESSED DOWNLIGHT	RECESSED	LITHONIA LIGHTING LDN6 35/15 LO6AR LD/ OR APPROVED EQUAL	LED 80 CRI, 1500 LUMENS 3500K CCT	---	18	MVOLT	
D2	6" RECESSED DOWNLIGHT	RECESSED	LITHONIA LIGHTING LDN6 35/05 LO6AR LD/ OR APPROVED EQUAL	LED 80 CRI, 500 LUMENS 3500K CCT	---	6	MVOLT	
D3	6" RECESSED DOWNLIGHT	RECESSED	LITHONIA LIGHTING LDN6 35/30 LO6AR LD/ OR APPROVED EQUAL	LED 80 CRI, 3000 LUMENS 3500K CCT	---	35	MVOLT	
D4	6" RECESSED DOWNLIGHT WALL WASH	RECESSED	LITHONIA LIGHTING/ LDN6 35/50 LW6WR/ OR APPROVED EQUAL	LED 80 CRI, 5000 LUMENS 3500K CCT	---	1	MVOLT	
D5	6" RECESSED DOWNLIGHT - WET LOCATION LISTED FOR UNDER CANOPY	RECESSED	LITHONIA LIGHTING LDN6 40/10 LO6AR LD/ OR APPROVED EQUAL	LED 80 CRI, 1000 LUMENS 4000K CCT	---	10	MVOLT	
D5E	6" RECESSED DOWNLIGHT - WET LOCATION LISTED FOR UNDER CANOPY W/ 90 MINUTE BATTERY BACKUP	RECESSED	LITHONIA LIGHTING LDN6 40/10 LO6AR LD/ OR APPROVED EQUAL	LED 80 CRI, 1000 LUMENS 4000K CCT	---	10	MVOLT	
E1	4' FLUSHED LED STRIP LIGHT	RECESSED	MARK ARCHITECTURAL LIGHTING SL4L 4 FLP 80 CRI 35K 400LMF/ OR APPROVED EQUAL	LED 80CRI, 400 LUMENS PER FT 3500K CCT	---	14	MVOLT	LENGTH AS REQUIRED-CONTINUOUS FLUSH LED STRIP LIGHT - PROVIDE WALL TO WALL INSTALLATION WITH EQUAL LENGTH FIXTURES. PROVIDE 1 PIECE FIXTURE FOR LENGTHS UP TO 12 FOOT
ELR	RECESSED EMERGENCY LIGHTING UNIT WITH LED LAMPS	RECESSED	LITHONIA LIGHTING ELR2 / OR APPROVED EQUAL	LED	---	16W	MVOLT	PROVIDE WITH 90 MINUTE BATTERY FOR EMERGENCY BACKUP POWER.
ELU	EMERGENCY LIGHTING UNIT W/ AIMABLE REMOTE HEADS MINIMUM 200 LUMENS PER HEAD	WALL	LITHONIA LIGHTING ELM2L / OR APPROVED EQUAL	LED	---	3W PER LAMP	MVOLT	MOUNT FIXTURE AT 7'-0" AFF UNLESS OTHERWISE NOTED. PROVIDE WITH 90 MINUTE BATTERY FOR EMERGENCY BACKUP POWER.
EX	LOW PROFILE SNAP TOGETHER QUICK MOUNT DESIGN. FLAME RATED, UV STABLE ABS THERMOPLASTIC HOUSING. UNIVERSAL MOUNTING, CANOPY PROVIDED. POP OUT SHEVRON DIRECTIONAL INDICATIONS EASILY REMOVED AS REQUIRED. MOUNTS TO STANDARD 4 INCH SQUARE OUTLET BOX.	UNIVERSAL	LITHONIA LIGHTING LE R ELN SD SERIES OR APPROVED EQUAL	LED	---	5	120	
S1	4' SUSPENDED LED STRIP LIGHT	SUSPENDED	LITHONIA LIGHTING ZL1N L48 5000LM FST MVOLT 40K 80 CRI/ OR APPROVED EQUAL	LED 80CRI, 5000 LUMENS 4000K CCT	---	34	MVOLT	MOUNT FIXTURES AT 10'-0" AFF. UNLESS OTHERWISE NOTED.
SL0	SITE LIGHTING TYPE VLS DISTRIBUTION	POLE	LITHONIA LIGHTING DSX0-LED-P1-40K-VLS-MVOLT-RPA-PER-DMG-PIRHN-FAO OR APPROVED EQUAL	LED 80 CRI, 4329 LUMENS 4000K CCT	---	56	277	MOUNT FIXTURE 12' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED.
SL1	SITE LIGHTING TYPE VS DISTRIBUTION	POLE BACK TO BACK	LITHONIA LIGHTING RSX1-LED-P1-40K-R5S-MVOLT-RPA-PE-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 7479 LUMENS EACH 4000K CCT	---	51 EACH	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
SL2	SITE LIGHTING TYPE VS DISTRIBUTION	POLE BACK TO BACK	LITHONIA LIGHTING RSX1-LED-P2-40K-R5S-MVOLT-RPA-PE-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 10374 LUMENS EACH 4000K CCT	---	72 EACH	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
SL3	SITE LIGHTING TYPE II DISTRIBUTION	POLE	LITHONIA LIGHTING RSX2-LED-P1-40K-R2-MVOLT-RPA-PE-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 11031 LUMENS 4000K CCT	---	73	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
SL4	SITE LIGHTING TYPE IV DISTRIBUTION	POLE	LITHONIA LIGHTING RSX2-LED-P2-40K-R4-MVOLT-RPA-PE-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 17427 LUMENS 4000K CCT	---	111	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
W1	EXTERIOR WALL PACK.	EXTERIOR WALL	LITHONIA LIGHTING WST LED P1 40K VW MVOLT OR APPROVED EQUAL	LED 70 CRI, 1500 LUMENS 4000K CCT	---	12	MVOLT	
W1E	EXTERIOR WALL PACK - PROVIDE WITH 90 MINUTE BATTERY BACKUP	EXTERIOR WALL	LITHONIA LIGHTING WST LED P1 40K VW MVOLT OR APPROVED EQUAL	LED 70 CRI, 1500 LUMENS 4000K CCT	---	12	MVOLT	

SYM	DESCRIPTION	DATE	APPR.

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - LIGHTING FIXTURE SCHEDULE

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

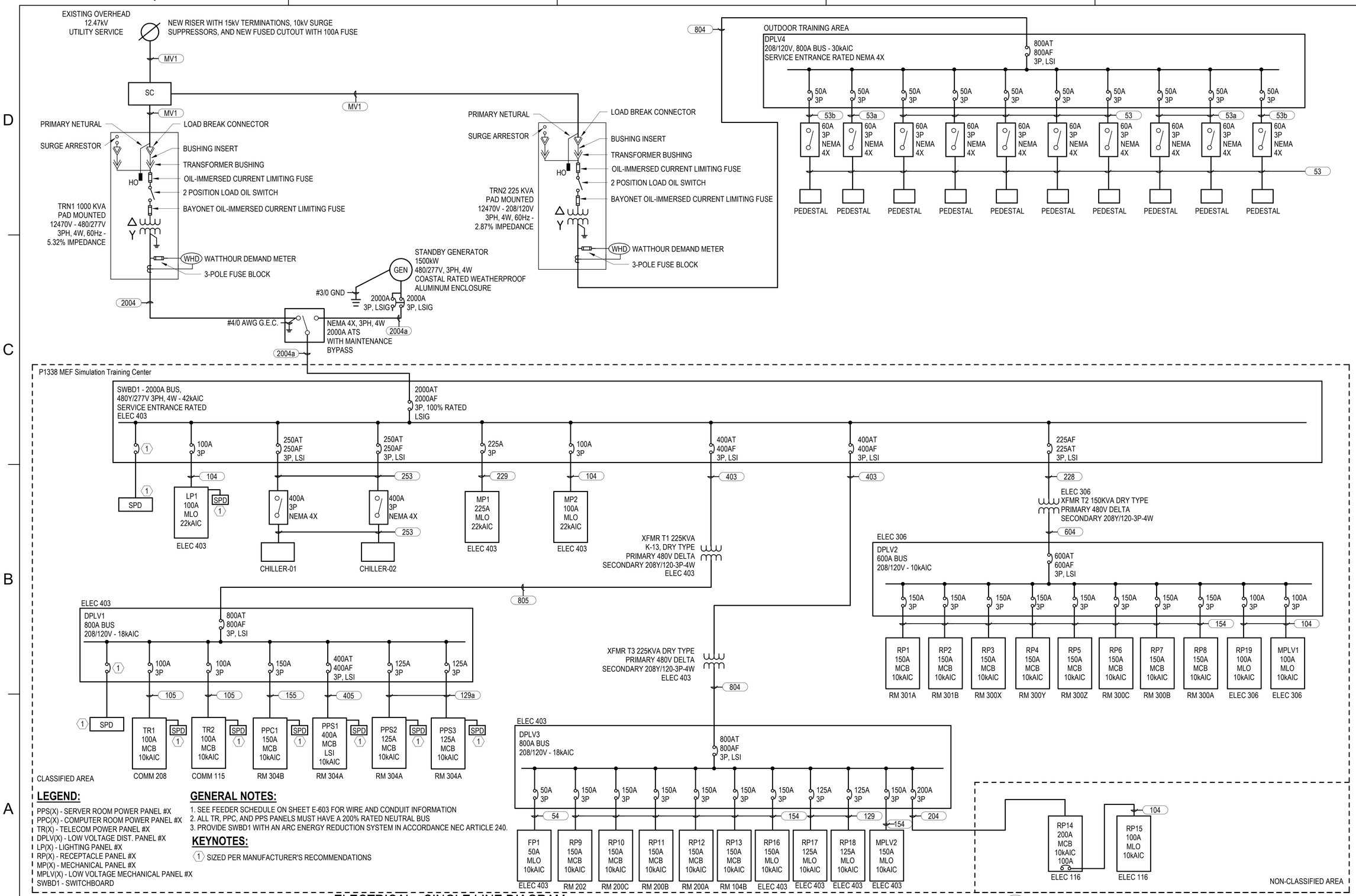
E-601

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

N

PLOTTED: 6/10/2021 5:42:12 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



LEGEND:

PPS(X) - SERVER ROOM POWER PANEL #X
PPC(X) - COMPUTER ROOM POWER PANEL #X
TR(X) - TELECOM POWER PANEL #X
DPLV(X) - LOW VOLTAGE DIST. PANEL #X
LP(X) - LIGHTING PANEL #X
RP(X) - RECEPTACLE PANEL #X
MP(X) - MECHANICAL PANEL #X
MPLV(X) - LOW VOLTAGE MECHANICAL PANEL #X
SWBD1 - SWITCHBOARD

GENERAL NOTES:

1. SEE FEEDER SCHEDULE ON SHEET E-603 FOR WIRE AND CONDUIT INFORMATION
2. ALL TR, PPC, AND PPS PANELS MUST HAVE A 200% RATED NEUTRAL BUS
3. PROVIDE SWBD1 WITH AN ARC ENERGY REDUCTION SYSTEM IN ACCORDANCE NEC ARTICLE 240.

KEYNOTES:

(1) SIZED PER MANUFACTURER'S RECOMMENDATIONS

ELECTRICAL - SINGLE LINE DIAGRAM

SCALE:NTS

A1

APPR. | DATE | DESCRIPTION | SYM

NAVFAC

SEAL

RQ | W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD | DRW LAK | CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
MCB CAMP LEJEUNE
P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT
JACKSONVILLE, NC
ELECTRICAL - SINGLE LINE DIAGRAM

SCALE: AS NOTED
EPROJECT NO.: 15908892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
E-602

DP2 SUBMISSION – P1338 BUILDING -,-PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:15 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

FEEDER SCHEDULE

53	(3) #6 AWG AND (1) #10 AWG GND IN 3/4" CONDUIT
53a	(3) #4 AWG AND (1) #8 AWG GND IN 1" CONDUIT
53b	(3) #3 AWG AND (1) #6 AWG GND IN 1-1/4" CONDUIT
54	(4) #6 AWG AND (1) #10 AWG GND IN 1" CONDUIT
104	(4) #1 AWG AND (1) #8 AWG GND IN 1-1/2" CONDUIT
105	(5) #1 AWG AND (1) #8 AWG GND IN 2" CONDUIT
129	(4) #1 AWG AND (1) #6 AWG GND IN 1-1/2" CONDUIT
129a	(5) #1/0 AWG AND (1) #4 AWG GND IN 2" CONDUIT
154	(4) #1/0 AWG AND (1) #6 AWG GND IN 1-1/2" CONDUIT
155	(5) #1/0 AWG AND (1) #6 AWG GND IN 2" CONDUIT
204	(4) #3/0 AWG AND (1) #6 AWG GND IN 2" CONDUIT
228	(3) #4/0 AWG AND (1) #4 AWG GND IN 2-1/2" CONDUIT
228a	(3) 250 kcmil AND (1) #4 AWG GND IN 2-1/2" CONDUIT
229	(4) #4/0 AWG AND (1) #4 AWG GND IN 2-1/2" CONDUIT
253	(3) 250 kcmil AND (1) #4 AWG GND IN 2-1/2" CONDUIT
403	(3) 600 kcmil AND (1) #3 AWG GND IN 3" CONDUIT
405	(5) 600 kcmil AND (1) #3 AWG GND IN 4" CONDUIT
603	TWO 3" CONDUITS, EACH WITH (3) 350 kcmil AND (1) #1 AWG GND
604	TWO 3" CONDUITS, EACH WITH (4) 350 kcmil AND (1) #1 AWG GND
804	TWO 4" CONDUITS, EACH WITH (4) 600 kcmil AND (1) #1/0 AWG GND
805	TWO 4" CONDUITS, EACH WITH (5) 600 kcmil AND (1) #1/0 AWG GND
2004	FIVE 4" CONDUITS, EACH WITH (4) 600 kcmil + (1) 4" CONDUIT SPARE
2004a	FIVE 4" CONDUITS, EACH WITH (4) 600 kcmil AND (1) #4/0 AWG GND + (1) 4" CONDUIT SPARE
MV1	TWO 5" CONDUITS, ONE WITH (4) #2 AWG, 15kV, MV-105 TYPE CABLE, 133% EPR TYPE INSULATION WITH JACKET. PROVIDE WITH FULL SIZED CONCENTRIC NEUTRAL AND WITH ONE 5" CONDUIT WILL BE A SPARE WITH NO WIRING IN A CONCRETE ENCASED DUCTBANK.

SYM	DESCRIPTION	DATE	APPR.

SEAL

RQ W.M. Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - SINGLE LINE DIAGRAM

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

E-603

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:16 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. * SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

PANEL SWBD1

FED FROM:
LOCATION: ELEC 403
MOUNT: FLOOR

2000 A MAIN CIRCUIT BREAKER
3PH 4WIRE 480Y/277V
42K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	LP1	1	100	3	9.01	41.01					3	225	4	MP1	2
3	--	--	--	--			8.93	41.01			--	--	--	--	4
5	--	--	--	--					8.85	41.01	--	--	--	--	6
7	MP2	1	100	3	16.73	80.64					3	225	4	T2	8
9	--	--	--	--			16.73	81.44			--	--	--	--	10
11	--	--	--	--					16.73	81.06	--	--	--	--	12
13	T1	*	400	3	67.50	50.77					3	250	*	CHILLER CH-01	14
15	--	--	--	--			65.84	50.77			--	--	--	--	16
17	--	--	--	--					69.10	50.77	--	--	--	--	18
19	T3	*	400	3	99.31	0.00					3	225	--	SPARE	20
21	--	--	--	--			97.41	0.00			--	--	--	--	22
23	--	--	--	--					96.72	0.00	--	--	--	--	24
25	CHILLER CH-02	*	250	3	50.77	0.00					3	600	--	SPARE	26
27	--	--	--	--			50.77	0.00			--	--	--	--	28
29	--	--	--	--					50.77	0.00	--	--	--	--	30
31	SURGE PROTECTIVE DEVICE	--	30	3	0.00	0.00					--	--	--	PROVISIONED SPACE	32
33	--	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	34
35	--	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42

NEC ARTICLE 220		A	B	C	
	TOTAL	415.7	412.9	415.0	KVA
		1502.0	1490.6	1499.4	AMPS
	CONNECTED LOAD	1243.7	KVA	1495.9	AMPS
	DEMAND LOAD	849.9	KVA	1022.3	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	210548 VA	100.00%	210548 VA		
Power	2360 VA	100.00%	2360 VA	Total Conn. Load:	1243667 VA
RECEPT	475120 VA	51.05%	242560 VA	Total Est. Demand:	849932 VA
LTG	26801 VA	75.00%	20101 VA	Total Conn.:	1496 A
Water Heater	720 VA	100.00%	720 VA	Total Est. Demand:	1022 A
UFC-MOTOR-25%	25362 VA	25.00%	6341 VA		
UFC-MOTOR-30%	41582 VA	30.00%	12475 VA		
UFC-HVAC-70%	146632 VA	70.00%	102642 VA		
UFC-HEATER-80%	7162 VA	80.00%	5730 VA		
UFC-CHILLER-80%	304619 VA	80.00%	243695 VA		
FIRE PROTECTION - 100%	2760 VA	100.00%	2760 VA		

PANEL DPLV1

FED FROM: T1
LOCATION: ELEC 403
MOUNT: SURFACE

800 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
18K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	PPS1	*	400	3	32.00	8.16					3	125	1	PPS2	2
3	--	--	--	--			32.00	8.16			--	--	--	--	4
5	--	--	--	--					32.00	9.08	--	--	--	--	6
7	TR1	1	100	3	3.40	2.72					3	100	1	TR2	8
9	--	--	--	--			3.56	2.86			--	--	--	--	10
11	--	--	--	--					4.44	3.42	--	--	--	--	12
13	PPC1	1/0	150	3	11.98	9.24					3	125	1	PPS3	14
15	--	--	--	--			12.00	7.26			--	--	--	--	16
17	--	--	--	--					11.08	9.08	--	--	--	--	18
19	SURGE PROTECTIVE DEVICE	--	30	3	0.00	0.00					3	100	--	SPARE	20
21	--	--	--	--			0.00	0.00			--	--	--	--	22
23	--	--	--	--					0.00	0.00	--	--	--	--	24
25	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	26
27	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	30
31	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	32
33	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	34
35	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42

NEC ARTICLE 220		A	B	C	
	TOTAL	67.5	65.8	69.1	KVA
		564.6	548.7	577.9	AMPS
	CONNECTED LOAD	202.4	KVA	561.9	AMPS
	DEMAND LOAD	194.6	KVA	540.3	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	173200 VA	100.00%	173200 VA		
RECEPT	20080 VA	74.90%	15040 VA	Total Conn. Load:	202432 VA
UFC-HVAC-70%	9152 VA	70.00%	6406 VA	Total Est. Demand:	194646 VA
				Total Conn.:	562 A
				Total Est. Demand:	540 A

PANEL DPLV2

FED FROM: T2
LOCATION: ELEC 306
MOUNT: SURFACE

600 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	MPLV1	1	100	3	4.10	8.28					3	150	1/0	RP1	2
3	--	--	--	--			4.18	8.64			--	--	--	--	4
5	--	--	--	--					4.16	8.64	--	--	--	--	6
7	RP2	1/0	150	3	8.64	8.64					3	150	1/0	RP3	8
9	--	--	--	--			8.64	8.64			--	--	--	--	10
11	--	--	--	--					8.64	8.64	--	--	--	--	12
13	RP4	1/0	150	3	8.64	8.64					3	150	1/0	RP5	14
15	--	--	--	--			8.64	8.64			--	--	--	--	16
17	--	--	--	--					8.64	8.64	--	--	--	--	18
19	RP6	1/0	150	3	8.64	8.64					3	150	1/0	RP7	20
21	--	--	--	--			8.64	8.64			--	--	--	--	22
23	--	--	--	--					8.64	8.64	--	--	--	--	24
25	RP8	1/0	150	3	8.64	7.78					3	100	1	RP19	26
27	--	--	--	--			8.64	8.14			--	--	--	--	28
29	--	--	--	--					8.64	7.78	--	--	--	--	30
31	SPARE	--	150	3	0.00	0.00					3	150	--	SPARE	32
33	--	--	--	--			0.00	0.00			--	--	--	--	34
35	--	--	--	--					0.00	0.00	--	--	--	--	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42

NEC ARTICLE 220		A	B	C	
	TOTAL	80.6	81.4	81.1	KVA
		672.0	679.2	676.0	AMPS
	CONNECTED LOAD	243.1	KVA	674.9	AMPS
	DEMAND LOAD	127.3	KVA	353.3	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	2880 VA	100.00%	2880 VA		
RECEPT	230700 VA	52.17%	120350 VA	Total Conn. Load:	243134 VA
UFC-MOTOR-25%	6176 VA	25.00%	1544 VA	Total Est. Demand:	127294 VA
UFC-HVAC-70%	1830 VA	70.00%	1281 VA	Total Conn.:	675 A
UFC-HEATER-80%	1548 VA	80.00%	1238 VA	Total Est. Demand:	353 A

PANEL DPLV3

FED FROM: T3
LOCATION: ELEC 403
MOUNT: SURFACE

800 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
18K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FP1	6	50	3	0.78	7.20					3	150	1/0	RP13	2
3	--	--	--	--			1.14	6.48			--	--	--	--	4
5	--	--	--	--					1.20	5.76	--	--	--	--	6
7	MPLV2	1/0	150	3	12.45	8.97					3	125	1	RP18	8
9	--	--	--	--			10.61	8.67			--	--	--	--	10
11	--	--	--	--					11.70	8.03	--	--	--	--	12
13	RP17	1	125	3	8.64	10.93					3	150	1/0	RP16	14
15	--	--	--	--			8.60	10.85			--	--	--	--	16
17	--	--	--	--					8.35	10.98	--	--	--	--	18
19	RP14	3/0	200	3	15.79	8.64					3	150	1/0	RP10	20
21	--	--	--	--			16.50	8.64			--	--	--	--	22
23	--	--	--	--					16.14	8.64	--	--	--	--	24
25	RP11	1/0	150	3	8.64	8.64					3	150	1/0	RP12	26
27	--	--	--	--			8.64	8.64			--	--	--	--	28
29	--	--	--	--					8.64	8.64	--	--	--	--	30
31	RP9	1/0	150	3	8.64	0.00					3	200	--	SPARE	32
33	--	--	--	--			8.64	0.00			--	--	--	--	34
35	--	--	--	--					8.64	0.00	--	--	--	--	36
37	SPARE	--	150	3	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	--	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	--	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42

NEC ARTICLE 220		A	B	C	
	TOTAL	99.3	97.4	96.7	KVA
		828.5	812.6	806.0	AMPS
	CONNECTED LOAD	293.4	KVA	814.5	AMPS
	DEMAND LOAD	167.9	KVA	466.1	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	34468 VA	100.00%	34468 VA		
Power	2360 VA	100.00%	2360 VA	Total Conn. Load:	293439 VA
RECEPT	224340 VA	52.23%	117170 VA	Total Est. Demand:	167911 VA
Water Heater	720 VA	100.00%	720 VA	Total Conn.:	815 A
UFC-MOTOR-25%	16360 VA	25.00%	4090 VA	Total Est. Demand:	466 A
UFC-MOTOR-30%	6332 VA	30.00%	1900 VA		
UFC-HVAC-70%	4359 VA	70.00%	3052 VA		
UFC-HEATER-80%	1740 VA	80.00%	1392 VA		
FIRE PROTECTION - 100%	2760 VA	100.00%	2760 VA		

SYM	DESCRIPTION	DATE	APPR

SEAL

W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
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CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
RO/CC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
E-604

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:18 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. * SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

PANEL DPLV4

FED FROM:
LOCATION:
MOUNT: FLOOR

800 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
30K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	PEDESTAL 1	3	50	3	4.80	4.80					3	50	4	PEDESTAL 2	2
3	--	--	--	--			4.80	4.80			--	--	--	--	4
5	--	--	--	--					4.80	4.80	--	--	--	--	6
7	PEDESTAL 3	6	50	3	4.80	4.80					3	50	6	PEDESTAL 4	8
9	--	--	--	--			4.80	4.80			--	--	--	--	10
11	--	--	--	--					4.80	4.80	--	--	--	--	12
13	PEDESTAL 5	6	50	3	4.80	4.80					3	50	6	PEDESTAL 6	14
15	--	--	--	--			4.80	4.80			--	--	--	--	16
17	--	--	--	--					4.80	4.80	--	--	--	--	18
19	PEDESTAL 7	6	50	3	4.80	4.80					3	50	4	PEDESTAL 8	20
21	--	--	--	--			4.80	4.80			--	--	--	--	22
23	--	--	--	--					4.80	4.80	--	--	--	--	24
25	PEDESTAL 9	4	50	3	4.80	4.80					3	50	3	PEDESTAL 10	26
27	--	--	--	--			4.80	4.80			--	--	--	--	28
29	--	--	--	--					4.80	4.80	--	--	--	--	30
31	SPARE	--	50	3	0.00	0.00					3	50	--	SPARE	32
33	--	--	--	--			0.00	0.00			--	--	--	--	34
35	--	--	--	--					0.00	0.00	--	--	--	--	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42
				TOTAL	48.0		48.0		48.0		KVA				
					400.3		400.3		400.3		AMPS				
				CONNECTED LOAD	144.1		KVA		400.0		AMPS				
NEC ARTICLE 220				DEMAND LOAD	144.1		KVA		400.0		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	144107 VA	100.00%	144107 VA		
				Total Conn. Load:	144107 VA
				Total Est. Demand:	144107 VA
				Total Conn.:	400 A
				Total Est. Demand:	400 A

PANEL LP1

FED FROM: SWBD1
LOCATION: ELEC 403
MOUNT: SURFACE

100 A MAIN LUG ONLY
3PH 4WIRE 480Y/277V
22K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	LTG BUILDING MOUNTED	12	20	1	0.06	0.10					1	20	12	LTG - EXTERIOR CANOPIES	2
3	LTG BUILDING MOUNTED	12	20	1			0.06	0.35			1	20	10	SITE LIGHTING (CKT D)	4
5	LCP RM 403	12	20	1					0.10	0.55	1	20	10	SITE LIGHTING (CKT C)	6
7	SITE LIGHTING (CKT E)	6	20	1	0.55	1.17					1	20	4	SITE LIGHTING (CKT F)	8
9	LTG COR C030	12	20	1			0.61	2.41			1	20	12	LTG RM 304B, 303B, 303A, 302, 209, 205, 206, 204, G020,...	10
11	SITE LIGHTING (CKT B)	10	20	1					1.10	1.52	1	20	10	SITE LIGHTING (CKT A)	12
13	LTG RM 300B, 300A, 300Y, 300X	12	20	1	3.30	1.26					1	20	12	LTG RM C020, C022, C021, C023	14
15	LTG RM 301A, 301B, 304A	12	20	1			2.62	2.89			1	20	12	LTG RM 402, 401, 400, 118	16
17	LTG RM 106, 105, 108, G011, G012, G010, 110	12	20	1					1.91	3.68	1	20	12	LTG RM 202, 201, 203, 200B, 200A, 200C	18
19	SPARE	--	20	1	0.00	2.56					1	20	12	LTG RM 300C, 300Z, C032, C034, C031, C030, 306	20
21	SPARE	--	20	1			0.00	0.00			3	30	--	SURGE PROTECTIVE DEVICE	22
23	SPARE	--	20	1					0.00	0.00	--	--	--	--	24
25	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	--	26
27	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	30
				TOTAL	9.0		8.9		8.9		KVA				
					32.6		32.3		32.0		AMPS				
				CONNECTED LOAD	26.8		KVA		32.2		AMPS				
NEC ARTICLE 220				DEMAND LOAD	20.1		KVA		24.2		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LTG	26801 VA	75.00%	20101 VA		
				Total Conn. Load:	26801 VA
				Total Est. Demand:	20101 VA
				Total Conn.:	32 A
				Total Est. Demand:	24 A

PROVIDE SHUNT TRIP CIRCUIT BREAKER ON CIRCUITS FEEDING CRAC UNITS.

PANEL MP1

FED FROM: SWBD1
LOCATION: ELEC 403
MOUNT: SURFACE

225 A MAIN LUG ONLY
3PH 4WIRE 480Y/277V
22K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	AHU-01 (SUPPLY FAN) RM MECHANICAL 400	10	30	3	3.88	0.94					3	15	12	AHU-01 (EXHASUT FAN) RM MECHANICAL 400	2
3	--	--	--	--			3.88	0.94			--	--	--	--	4
5	--	--	--	--					3.88	0.94	--	--	--	--	6
7	AHU-02 (SUPPLY FAN) RM MECHANICAL 400	2/0	175	3	22.17	2.27					3	15	12	AHU-02 (EXHASUT FAN) RM MECHANICAL 400	8
9	--	--	--	--			22.17	2.27			--	--	--	--	10
11	--	--	--	--					22.17	2.27	--	--	--	--	12
13	BP-1 RM MECH (HOT) 401	12	20	3	0.44	0.44					3	20	12	BP-2 RM MECH (HOT) 401	14
15	--	--	--	--			0.44	0.44			--	--	--	--	16
17	--	--	--	--					0.44	0.44	--	--	--	--	18
19	BP-3 RM MECH (HOT) 401	12	20	3	0.44	3.88					3	20	12	P-01 RM MECHANICAL 400	20
21	--	--	--	--			0.44	3.88			--	--	--	--	22
23	--	--	--	--					0.44	3.88	--	--	--	--	24
25	P-02 MECHANICAL 400	12	20	3	3.88	1.33					3	20	12	P-03 RM MECH (HOT) 401	26
27	--	--	--	--			3.88	1.33			--	--	--	--	28
29	--	--	--	--					3.88	1.33	--	--	--	--	30
31	SPARE	--	20	3	0.00	1.33					3	20	12	P-04 RM MECH (HOT) 401	32
33	--	--	--	--			0.00	1.33			--	--	--	--	34
35	--	--	--	--					0.00	1.33	--	--	--	--	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					3	20	--	SPARE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	--	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	--	42
				TOTAL	41.0		41.0		41.0		KVA				
					148.1		148.1		148.1		AMPS				
				CONNECTED LOAD	123.0		KVA		148.0		AMPS				
NEC ARTICLE 220				DEMAND LOAD	72.0		KVA		86.6		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
UFC-MOTOR-30%	35250 VA	30.00%	10575 VA		
UFC-HVAC-70%	87792 VA	70.00%	61454 VA		
				Total Conn. Load:	123042 VA
				Total Est. Demand:	72029 VA
				Total Conn.:	148 A
				Total Est. Demand:	87 A

PANEL MP2

FED FROM: SWBD1
LOCATION: ELEC 403
MOUNT: SURFACE

100 A MAIN LUG ONLY
3PH 4WIRE 480Y/277V
22K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	EUH-01 RM ELEC 402	12	20	3	1.29	4.83					3	25	10	CRAC-01 RM SIM CONTROL (SERVER ROOM) 304A	2
3	--	--	--	--			1.29	4.83			--	--	--	--	4
5	--	--	--	--					1.29	4.83	--	--	--	--	6
7	CRAC-02 RM SIM CONTROL (SERVER ROOM) 304A	10	25	3	4.83	4.83					3	25	10	CRAC-03 RM SIM CONTROL (SERVER ROOM) 304A	8
9	--	--	--	--			4.83	4.83			--	--	--	--	10
11	--	--	--	--					4.83	4.83	--	--	--	--	12
13	EF-02 RM ELEC 403	12	20	3	0.94	0.00					3	25	--	SPARE	14
15	--	--	--	--			0.94	0.00			--	--	--	--	16
17	--	--	--	--					0.94	0.00	--	--	--	--	18
19	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	20
21	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	22
23	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	24
25	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	26
27	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	30
31	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	32
33	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	34
35	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42
				TOTAL	16.7		16.7		16.7		KVA				
					60.4		60.4		60.4		AMPS				
				CONNECTED LOAD	50.2		KVA		60.4		AMPS				
NEC ARTICLE 220				DEMAND LOAD	34.3		KVA		41.2		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
UFC-MOTOR-25%	2826 VA	25.00%	707 VA		
UFC-HVAC-70%	43498 VA	70.00%	30449 VA		
UFC-HEATER-80%	3874 VA	80.00%	3099 VA		
				Total Conn. Load:	50198 VA
				Total Est. Demand:	34255 VA
				Total Conn.:	60 A
				Total Est. Demand:	41 A

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD | DRW LAK | CHK YPS

PM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

E-605

DP2 SUBMISSION – P1338 BUILDING -PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:21 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. * SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

PANEL MPLV1

FED FROM: DPLV2
LOCATION: ELEC 306
MOUNT: SURFACE

100 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	J-BOX VAV 24V POWER RM BREAK ROOM 206	12	20	1	0.18	1.00					1	20	12	J-BOX VAV 24V POWER RM EXERCISE CONTROL 202	2
3	LOUVER LOW VOLTAGE POWER ELEC 306	12	20	1			0.30	1.44			1	15	12	LEFT TURNSTILE GATE POWER SUPPLY	4
5	EF-04 RM ELEC 306	12	20	1					0.70	1.55	1	20	12	EWH-02 RM ELEC 306	6
7	J-BOX VAV 24V POWER RM LOBBY/VEST L010	12	20	1	1.00	1.00					1	20	12	J-BOX VAV 24V POWER RM SIM. CLASSROOM 200C	8
9	RIGHT TURNSTILE GATE POWER SUPPLY	15	20	1			1.44	0.00			--	--	--	PROVISIONED SPACE	10
11	HPCU-02	10	30	2					0.92	0.00	--	--	--	PROVISIONED SPACE	12
13	--	--	--	--	0.92	0.00					--	--	--	PROVISIONED SPACE	14
15	J-BOX VAV 24V POWER RM SIM. CLASSROOM 300Y	12	20	1			1.00	0.00			--	--	--	PROVISIONED SPACE	16
17	J-BOX VAV 24V POWER RM SIM. CLASSROOM 301A	12	20	1					1.00	0.00	--	--	--	PROVISIONED SPACE	18
19	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	20
21	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	22
23	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	24
25	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	26
27	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	30
31	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	32
33	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	34
35	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					1	20	--	SPARE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			1	20	--	SPARE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	1	20	--	SPARE	42
				TOTAL	4.1		4.2		4.2		KVA				
					34.1		34.9		34.7		AMPS				
				CONNECTED LOAD	12.4		KVA		34.5		AMPS				
NEC ARTICLE 220				DEMAND LOAD	6.9		KVA		19.3		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	2880 VA	100.00%	2880 VA		
UFC-MOTOR-25%	6176 VA	25.00%	1544 VA	Total Conn. Load:	12434 VA
UFC-HVAC-70%	1830 VA	70.00%	1281 VA	Total Est. Demand:	6944 VA
UFC-HEATER-80%	1548 VA	80.00%	1238 VA	Total Conn.:	35 A
				Total Est. Demand:	19 A

PANEL MPLV2

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

150 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	UH-01 RM MECHANICAL 400	12	20	1	0.10	0.50					1	20	12	J-BOX LOUVER 24V POWER MECH (HOT) 401	2
3	UH-02 RM MECH (HOT) 401	12	20	1			0.10	0.86			1	20	12	LOUVER L-01B RM MECHANICAL 400	4
5	RP-1 RM MECH (HOT) 401	12	20	1					0.42	0.70	1	20	12	EF-3 RM ELEC 116	6
7	DEHUMIDIFIER DEH-01 RM MECHANICAL 400	12	20	1	0.77	1.18					1	20	12	EF-1 RM MEN G025	8
9	J-BOX LOUVER 24V POWER ELEC 116/403/	12	20	1			0.90	1.00			1	20	12	J-BOX VAV 24V POWER RM FIRE ROOM 104B	10
11	J-BOX VAV 24V POWER RM 109	12	20	1					1.00	1.18	1	20	12	SF-1 RM MECHANICAL 400	12
13	EWH-01 RM ELEC 116	12	20	1	1.55	0.36					1	20	12	GWH-1 MECH (HOT) 401	14
15	LOUVERS L-01A RM MECHANICAL 400	12	20	1			0.86	2.00			1	20	12	CHILLER HEAT TRACE CNTRL PANEL RM MECHANICAL...	16
17	GENERATOR JACKET WATER HEATER WITH PUMP	4	60	2					4.26	0.36	1	20	12	J-BOX FOR DDC CONTROLLER MECHANICAL 400	18
19	--	--	--	--	4.26	0.59					1	15	12	BOILER B-01 RM MECH (HOT) 401	20
21	GENERATOR CHARGER	12	20	1			1.92	0.92			2	25	10	SSCU-01	22
23	BOILER B-03 RM MECH (HOT) 401	12	15	1					0.59	0.92	--	--	--	--	24
25	LOUVER L-02 RM MECHANICAL 400	12	20	1	0.86	1.18					1	20	12	LIFT GATE CIRCUIT 2	26
27	GWH-2 MECH (HOT) 401	12	20	1			0.36	0.59			1	15	12	BOILER B-02 RM MECH (HOT) 401	28
29	OH ROLL UP DOOR RM MECHANICAL 400	12	20	3					0.55	0.55	3	20	12	OH ROLL UP DOOR RM STORAGE/SHIP/RECEIVING 402	30
31	--	--	--	--	0.55	0.55					--	--	--	--	32
33	--	--	--	--			0.55	0.55			--	--	--	--	34
35	SPARE	--	15	1					0.00	1.18	1	20	12	LIFT GATE CIRCUIT 1	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	12.4		10.6		11.7		KVA				
					105.1		88.4		98.9		AMPS				
				CONNECTED LOAD	34.8		KVA		96.5		AMPS				
NEC ARTICLE 220				DEMAND LOAD	22.1		KVA		61.3		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	10448 VA	100.00%	10448 VA		
Power	2360 VA	100.00%	2360 VA	Total Conn. Load:	34759 VA
Water Heater	720 VA	100.00%	720 VA	Total Est. Demand:	22071 VA
UFC-MOTOR-25%	8800 VA	25.00%	2200 VA	Total Conn.:	96 A
UFC-MOTOR-30%	6332 VA	30.00%	1900 VA	Total Est. Demand:	61 A
UFC-HVAC-70%	4359 VA	70.00%	3052 VA		
UFC-HEATER-80%	1740 VA	80.00%	1392 VA		

PANEL FP1

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

50 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	AMPLIFIER RM 403	12	20	1	0.60	0.03					2	20	12	EPO BOX SIM CONTROL SECURE COMM 304B	2
3	FACP RM 403	12	20	1			0.96	0.03			--	--	--	--	4
5	POWER SUPPLY RM 403	12	20	1					0.60	0.60	1	20	12	TRANSMITTER PANEL RM 403	6
7	PROVISIONED SPACE	--	--	--	0.00	0.15					2	20	12	EPO BOXES SIM CONTROL (SERVER ROOM) 304A	8
9	PROVISIONED SPACE	--	--	--			0.00	0.15			--	--	--	--	10
11	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	12
13	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	14
15	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	16
17	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	18
19	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	20
21	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	22
23	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	24
25	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	26
27	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	30
				TOTAL	0.8		1.1		1.2		KVA				
					6.5		9.9		10.5		AMPS				
				CONNECTED LOAD	3.1		KVA		8.6		AMPS				
NEC ARTICLE 220				DEMAND LOAD	3.1		KVA		8.6		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	350 VA	100.00%	350 VA		
FIRE PROTECTION - 100%	2760 VA	100.00%	2760 VA	Total Conn. Load:	3110 VA
				Total Est. Demand:	3110 VA
				Total Conn.:	9 A
				Total Est. Demand:	9 A

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
E-606

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:23 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. * SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

PANEL RP1

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 301A
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 301A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301A	2
3	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	4
5	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	6
7	FLOOR BOXES RM 301A	10	20	1	0.72	0.36					1	20	10	FLOOR BOXES RM 301A	8
9	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	10
11	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	12
13	FLOOR BOXES RM 301A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301A	14
15	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	16
17	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	18
19	FLOOR BOXES RM 301A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301A	20
21	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	22
23	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	24
25	FLOOR BOXES RM 301A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301A	26
27	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	28
29	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	30
31	FLOOR BOXES RM 301A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301A	32
33	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	34
35	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.3		8.6		8.6		KVA				
					69.0		72.5		72.5		AMPS				
				CONNECTED LOAD	25.6		KVA		70.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	17.8		KVA		49.4		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25560 VA	69.56%	17780 VA		
				Total Conn. Load:	25560 VA
				Total Est. Demand:	17780 VA
				Total Conn.:	71 A
				Total Est. Demand:	49 A

PANEL RP2

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 301B
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	2
3	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	4
5	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	6
7	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	8
9	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	10
11	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	12
13	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	14
15	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	16
17	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	18
19	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	20
21	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	22
23	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	24
25	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	26
27	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	28
29	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	30
31	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	32
33	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	34
35	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP3

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300X
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	2
3	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	4
5	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	6
7	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	8
9	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	10
11	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	12
13	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	14
15	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	16
17	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	18
19	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	20
21	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	22
23	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	24
25	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	26
27	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	28
29	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	30
31	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	32
33	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	34
35	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP4

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300Y
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	2
3	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	4
5	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	6
7	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	8
9	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	10
11	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	12
13	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	14
15	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	16
17	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	18
19	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	20
21	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	22
23	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	24
25	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	26
27	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	28
29	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	30
31	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	32
33	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	34
35	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE
DES SD | DRW LAK | CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

E-607

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:25 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

GENERAL NOTES

1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2 * SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

PANEL RP5

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300Z
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	2
3	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	4
5	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	6
7	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	8
9	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	10
11	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	12
13	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	14
15	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	16
17	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	18
19	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	20
21	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	22
23	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	24
25	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	26
27	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	28
29	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	30
31	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	32
33	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	34
35	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
	NEC ARTICLE 220			DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP6

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300C
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	2
3	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	4
5	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	6
7	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	8
9	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	10
11	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	12
13	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	14
15	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	16
17	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	18
19	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	20
21	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	22
23	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	24
25	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	26
27	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	28
29	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	30
31	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	32
33	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	34
35	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
	NEC ARTICLE 220			DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP7

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300B
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	2
3	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	4
5	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	6
7	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	8
9	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	10
11	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	12
13	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	14
15	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	16
17	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	18
19	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	20
21	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	22
23	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	24
25	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	26
27	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	28
29	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	30
31	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	32
33	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	34
35	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
	NEC ARTICLE 220			DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP8

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300A
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	2
3	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	4
5	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	6
7	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	8
9	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	10
11	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	12
13	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	14
15	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	16
17	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	18
19	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	20
21	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	22
23	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	24
25	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	26
27	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	28
29	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	30
31	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	32
33	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	34
35	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
	NEC ARTICLE 220			DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

SYM DESCRIPTION DATE APPR

SEAL

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108 A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD DRW LAK CHK YPS

PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
E-608

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:28 PM
FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. * SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

PANEL RP9

FED FROM: DPLV3
LOCATION: EXERCISE CONTROL 202
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	2
3	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	4
5	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	6
7	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	8
9	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	10
11	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	12
13	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	14
15	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	16
17	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	18
19	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	20
21	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	22
23	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	24
25	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	26
27	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	28
29	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	30
31	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	32
33	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	34
35	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP10

FED FROM: DPLV3
LOCATION: SIMULATION CLASSROOM 200C
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	2
3	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	4
5	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	6
7	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	8
9	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	10
11	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	12
13	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	14
15	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	16
17	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	18
19	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	20
21	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	22
23	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	24
25	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	26
27	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	28
29	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	30
31	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	32
33	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	34
35	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP11

FED FROM: DPLV3
LOCATION: SIMULATION CLASSROOM 200B
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	2
3	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	4
5	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	6
7	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	8
9	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	10
11	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	12
13	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	14
15	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	16
17	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	18
19	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	20
21	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	22
23	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	24
25	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	26
27	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	28
29	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	30
31	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	32
33	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	34
35	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP12

FED FROM: DPLV3
LOCATION: SIMULATION CLASSROOM 200A
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	2
3	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	4
5	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	6
7	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	8
9	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	10
11	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	12
13	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	14
15	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	16
17	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	18
19	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	20
21	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	22
23	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	24
25	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	26
27	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	28
29	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	30
31	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	32
33	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	34
35	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
E-609

DP2 SUBMISSION – P1338 BUILDING -PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:31 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. * SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

PANEL RP13

FED FROM: DPLV3
LOCATION: FIRE ROOM 104B
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 104A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 104A	2
3	FLOOR BOXES RM 104A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 104A	4
5	FLOOR BOXES RM 104A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 104A	6
7	FLOOR BOXES RM 104A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 104A	8
9	FLOOR BOXES RM 104A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 104B	10
11	FLOOR BOXES RM 104B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 104B	12
13	FLOOR BOXES RM 104B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 104B	14
15	FLOOR BOXES RM 104B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 104B	16
17	FLOOR BOXES RM 104B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 104B	18
19	FLOOR BOXES RM 104C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 104C	20
21	FLOOR BOXES RM 104C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 104C	22
23	FLOOR BOXES RM 104C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 104C	24
25	FLOOR BOXES RM 104C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 104C	26
27	FLOOR BOXES RM 104C	10	20	1			0.72	0.00			1	20	--	SPARE	28
29	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	30
31	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	32
33	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	34
35	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42
				TOTAL	7.2		6.5		5.8		KVA				
					60.9		54.9		48.0		AMPS				
		CONNECTED LOAD			19.4		KVA		54.0		AMPS				
NEC ARTICLE 220		DEMAND LOAD			14.7		KVA		40.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	19440 VA	75.72%	14720 VA		
				Total Conn. Load:	19440 VA
				Total Est. Demand:	14720 VA
				Total Conn.:	54 A
				Total Est. Demand:	41 A

PANEL RP14

FED FROM: DPLV3
LOCATION: ELEC 116
MOUNT: SURFACE

200 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT ELEC 116	12	20	1	0.36	0.85					1	20	12	COFFEE MAKER RM 108	2
3	RECEPT RM 107	12	20	1			0.54	0.72			1	20	12	RECEPT RM 402	4
5	RECEPT RM 402	12	20	1					0.72	1.08	1	20	12	RECEPT RM 400	6
7	MICROWAVE RM 108	12	20	1	1.65	1.65					1	20	12	MICROWAVE RM 108	8
9	RECEPT RM 105	12	20	1			0.90	0.90			1	20	12	RECEPT RM 106	10
11	RECEPT RM 108	12	20	1					1.26	1.44	1	20	12	VENDING MACHINE RM 108	12
13	RECEPT RM 109	12	20	1	0.72	0.90					1	20	12	RECEPT RM 103A	14
15	VENDING MACHINE RM 108	12	20	1			1.44	0.72			1	20	12	RECEPT RM 107	16
17	REFRIG RM 108	12	20	1					0.72	0.90	1	20	12	RECEPT RM 109	18
19	RECEPT RM 113	12	20	1	1.08	1.08					1	20	12	RECEPT RM 107	20
21	RECEPT RM 109	12	20	1			0.90	1.08			1	20	12	RECEPT RM 114	22
23	RECEPT RM 401 / RM 118	12	20	1					1.26	1.08	1	20	12	RECEPT RM 112	24
25	COPIER RM 105	12	20	1	1.20	0.00					--	--	--	PROVISIONED SPACE	26
27	RECEPT RM 111	12	20	1			1.08	1.20			1	20	12	COPIER RM 106	28
29	COPIER RM 109	12	20	1					1.20	6.48	3	100	1	RP15	30
31	SPARE	--	20	1	0.00	6.30					--	--	--	--	32
33	SPARE	--	20	1			0.00	7.02			--	--	--	--	34
35	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					1	20	--	SPARE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			1	20	--	SPARE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	1	20	--	SPARE	42
				TOTAL	15.8		16.5		16.1		KVA				
					131.6		137.9		134.9		AMPS				
		CONNECTED LOAD			48.4		KVA		134.4		AMPS				
NEC ARTICLE 220		DEMAND LOAD			34.5		KVA		95.8		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	12250 VA	100.00%	12250 VA		
RECEPT	32940 VA	65.18%	21470 VA	Total Conn. Load:	48430 VA
UFC-MOTOR-25%	3240 VA	25.00%	810 VA	Total Est. Demand:	34530 VA
				Total Conn.:	134 A
				Total Est. Demand:	96 A

PANEL RP15

FED FROM: RP14
LOCATION: ELEC 116
MOUNT: SURFACE

100 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	REFRIG RM 110	12	20	1	0.18	0.72					1	20	12	ELEC WATER COOLER COR. C011	2
3	LAVATORY / WATER CLOSET RM G012	12	20	1			0.36	0.72			1	20	12	RECEPT MOTHER'S ROOM 110	4
5	SYSTEMS FURNITURE RM 107	10	30	1					2.16	0.72	1	20	12	SYSTEMS FURNITURE RM 109	6
7	RECEPT COR. C011 / COR. C012 / COR. C014 / COR. C016	12	20	1	1.26	0.72					1	20	12	SYSTEMS FURNITURE RM 106	8
9	RECEPT RM G011, G010, G012	12	20	1			0.90	0.72			1	20	12	SYSTEMS FURNITURE RM 107	10
11	SYSTEMS FURNITURE RM 107	12	20	1					1.44	2.16	1	30	10	SYSTEMS FURNITURE RM 109	12
13	LAVATORY / URINAL / WATER CLOSET RM G010	12	20	1	1.44	2.16					1	30	10	SYSTEMS FURNITURE RM 109	14
15	LAVATORY / WATER CLOSET RM G011	12	20	1			1.44	2.16			1	30	10	SYSTEMS FURNITURE RM 109	16
17	RECEPT EXTERIOR	12	20	1					0.54	0.00	1	30	--	SPARE	18
19	SPARE	--	20	1	0.00	0.00					1	30	--	SPARE	20
21	SPARE	--	20	1			0.00	0.00			--	--	--	PROVISIONED SPACE	22
23	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	24
25	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	26
27	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	30
				TOTAL	6.5		6.3		7.0		KVA				
					54.2		52.5		58.7		AMPS				
		CONNECTED LOAD			19.8		KVA		55.0		AMPS				
NEC ARTICLE 220		DEMAND LOAD			14.5		KVA		40.4		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	900 VA	100.00%	900 VA		
RECEPT	15660 VA	81.93%	12830 VA	Total Conn. Load:	19800 VA
UFC-MOTOR-25%	3240 VA	25.00%	810 VA	Total Est. Demand:	14540 VA
				Total Conn.:	55 A
				Total Est. Demand:	40 A

PANEL RP16

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

150 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT TV RM 206	12	20	1	0.18	0.50					1	20	12	AV FLAT PANELS RM 207	2
3	LAVATORY / WATER CLOSET RM G020	12	20	1			0.36	0.36			1	20	12	RECEPT RM 205	4
5	COFFEE POT RM 206	12	20	1					0.85	1.08	1	20	12	RECEPT FIRE ROOM 104C	6
7	COPIER RM 205	12	20	1	1.20	0.54					1	20	12	AV FLAT PANELS RM 104A, 104B, 104C	8
9	RECEPT CORR C013, C020, C021, C022, C023	12	20	1			1.08	0.54			1	20	12	RECEPT FIRE ROOM 104B	10
11	RECEPT RM G025	12	20	1					0.54	0.72	1	20	12	WATER CLOSET RM G024	12
13	RECEPT RM 403	12	20	1	0.72	0.72					1	20	12	ELEC WATER COOLER COR C023	14
15	REFRIG RM 206	12	20	1			0.72	0.72			1	20	12	RECEPT FIRE ROOM 104A	16
17	RECEPT RM 206	12	20	1					0.72	0.90	1	20	12	RECEPT RM 204, G024, G020, G021	18
19	LAVATORY RM G021, G024	12	20	1	0.90	1.00					1	20	12	RECEPT FIRE ROOM 104B	20
21	LAVATORY RM G025	12	20	1			0.90	1.00			1	30	10	RECEPT FIRE ROOM 104C	22
23	RECEPT FIRE ROOM 104C	12	20	1					1.00	1.00	1	30	10	RECEPT FIRE ROOM 104B	24
25	RECEPT FIRE ROOM 104A	10	30	1	1.00	1.08					1	20	12	RECEPT RM 206	26
27	RECEPT FIRE ROOM 104A	12	20	1			1.00	1.08			1	20	12	RECEPT RM 207	28
29	RECEPT RM 207	12	20	1					1.08	1.44	1	20	12	URINAL / WATER CLOSET RM G025	30
31	RECEPT RM 207	12	20	1	1.44	1.65					1	20	12	MICROWAVE RM 206	32
33	RECEPT RM 207	12	20	1			1.44	1.65			1	20	12	MICROWAVE RM 206	34
35	MICROWAVE RM 206	12	20	1					1.65	0.00	1	20	--	SPARE	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	10.9		10.9		11.0		KVA				
					91.2		90.4		91.6		AMPS				
		CONNECTED LOAD			32.8		KVA		90.9		AMPS				
NEC ARTICLE 220		DEMAND LOAD			24.5		KVA		68.1		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	8440 VA	100.00%	8440 VA		
RECEPT	20000 VA	75.00%	15000 VA	Total Conn. Load:	32760 VA
UFC-MOTOR-25%	4320 VA	25.00%	1080 VA	Total Est. Demand:	24520 VA
				Total Conn.:	91 A
				Total Est. Demand:	68 A

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
RO/CC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
E-610

DP2 SUBMISSION – P1338 BUILDING -_PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:34 PM

FILE NAME: BIM 360://HF PACKAGE 3P1338 MEF SIM CTR-1590892-E.rvt

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. * SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

PANEL RP17

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

125 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT COR C022	12	20	1	0.18	0.50					1	20	12	AV FLAT PANELS RM 202	2
3	RECEPT TIMEZONE CLOCK 200B	12	20	1			0.18	0.36			1	20	12	RECEPT EXTERIOR	4
5	AV FLAT PANEL RM 209	12	20	1					0.25	1.08	1	20	12	RECEPT RM 200B	6
7	AV FLAT PANEL RM 200B	12	20	1	0.65	0.65					1	20	12	AV FLAT PANEL RM 200C	8
9	AV FLAT PANELS RM 303B	12	20	1			0.50	0.72			1	20	12	RECEPT RM 200C	10
11	RECEPT RM 200C	12	20	1					1.08	0.18	1	20	12	RECEPT TIMEZONE CLOCK RM 200C	12
13	RECEPT RM 200B	12	20	1	0.72	0.18					1	20	12	RECEPT TIMEZONE CLOCK COR C020	14
15	RECEPT RM 200B	12	20	1			0.90	0.18			1	20	12	RECEPT TIMEZONE CLOCK COR C022	16
17	RECEPT RM 303B	12	20	1					0.72	0.72	1	20	12	RECEPT RM 302	18
19	RECEPT RM 302	12	20	1	0.72	0.72					1	20	12	RECEPT RM 200C	20
21	RECEPT RM 303B	12	20	1			0.72	0.72			1	20	12	RECEPT RM 209	22
23	RECEPT RM 303B	12	20	1					0.90	0.90	1	20	12	RECEPT RM 209	24
25	RECEPT RM 303A	12	20	1	0.90	0.90					1	20	12	RECEPT RM 202	26
27	RECEPT RM 303A	12	20	1			0.90	0.90			1	20	12	RECEPT RM 203	28
29	RECEPT RM 202	12	20	1					1.08	1.44	1	20	12	VENDING MACHINE RM 206	30
31	RECEPT RM 202	12	20	1	1.08	1.44					1	20	12	SYSTEMS FURNITURE RM 302	32
33	RECEPT RM 202	12	20	1			1.08	1.44			1	20	12	VENDING MACHINE RM 206	34
35	PROVISIONED SPACE	--	--	--					0.00	0.00	1	20	--	SPARE	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	8.6		8.6		8.4		KVA				
					72.3		72.0		69.6		AMPS				
				CONNECTED LOAD	25.6		KVA		71.0		AMPS				
	NEC ARTICLE 220			DEMAND LOAD	19.2		KVA		53.4		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	2880 VA	100.00%	2880 VA		
RECEPT	22710 VA	72.02%	16355 VA	Total Conn. Load:	25590 VA
				Total Est. Demand:	19235 VA
				Total Conn.:	71 A
				Total Est. Demand:	53 A

PANEL RP18

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

125 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	AV FLAT PANEL RM 101	12	20	1	0.65	0.65					1	20	12	AV FLAT PANEL RM 102	2
3	RECEPT RM 101	12	20	1			1.08	1.08			1	20	12	RECEPT RM 102	4
5	RECEPT RM 102	12	20	1					1.08	1.08	1	20	12	RECEPT RM 200A	6
7	RECEPT RM 201	12	20	1	0.72	1.08					1	20	12	RECEPT RM 101	8
9	RECEPT TIMEZONE CLOCK RM 300A	12	20	1			0.18	0.18			1	20	12	RECEPT TIMEZONE CLOCK COR 034	10
11	RECEPT TIMEZONE CLOCK RM 300X	12	20	1					0.18	0.18	1	20	12	RECEPT TIMEZONE CLOCK COR C020	12
13	RECEPT TIMEZONE CLOCK RM 200A	12	20	1	0.18	0.18					1	20	12	AV FLAT PANEL RM L010	14
15	AV FLAT PANEL RM 300A	12	20	1			0.65	0.90			1	20	12	RECEPT RM 300A	16
17	AV FLAT PANEL RM 300X	12	20	1					0.65	0.90	1	20	12	RECEPT RM 300X	18
19	AV FLAT PANEL RM 200A	12	20	1	0.65	0.90					1	20	12	RECEPT RM 201	20
21	RECEPT RM 201	12	20	1			0.90	0.90			1	20	12	RECEPT RM 101	22
23	RECEPT RM 201	12	20	1					0.90	0.90	1	20	12	RECEPT RM 102	24
25	RECEPT RM 200A	12	20	1	0.90	0.90					1	20	12	RECEPT RM 100	26
27	RECEPT RM 300X	12	20	1			1.08	1.08			1	20	12	RECEPT RM 300A	28
29	RECEPT RM L010	12	20	1					1.08	1.08	1	20	12	RECEPT RM 300A	30
31	RECEPT RM 300X	12	20	1	1.08	1.08					1	20	12	RECEPT RM 200A	32
33	RECEPT STOR. 110A	12	20	1			0.54	0.10			1	20	12	SHUNT TRIP CIRCUIT RM 304A / RM 304B	34
35	PROVISIONED SPACE	--	--	--					0.00	0.00	1	20	--	SPARE	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	9.0		8.7		8.0		KVA				
					75.6		73.1		66.9		AMPS				
				CONNECTED LOAD	25.7		KVA		71.3		AMPS				
	NEC ARTICLE 220			DEMAND LOAD	17.9		KVA		49.6		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	100 VA	100.00%	100 VA		
RECEPT	25570 VA	69.55%	17785 VA	Total Conn. Load:	25670 VA
				Total Est. Demand:	17885 VA
				Total Conn.:	71 A
				Total Est. Demand:	50 A

PANEL RP19

FED FROM: DPLV2
LOCATION: ELEC 306
MOUNT: SURFACE

100 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT TIMEZONE CLOCK COR C030	12	20	1	0.18	0.36					1	20	12	RECEPT RM 306	2
3	RECEPT TIMEZONE CLOCK COR C034	12	20	1			0.18	0.90			1	20	12	RECEPT COR C031, C034	4
5	RECEPT RM 305	12	20	1					0.36	0.72	1	20	12	RECEPT RM 301A	6
7	RECEPT RM 301B	12	20	1	0.72	0.90					1	20	12	RECEPT COR C020, C030, C031	8
9	RECEPT RM 300B	12	20	1			1.08	0.18			1	20	12	RECEPT TIMEZONE CLOCK RM 301A	10
11	RECEPT RM 300C	12	20	1					1.08	0.18	1	20	12	RECEPT TIMEZONE CLOCK RM 301B	12
13	RECEPT TIMEZONE CLOCK RM 300Z	12	20	1	0.18	0.18					1	20	12	RECEPT TIMEZONE CLOCK RM 300B	14
15	RECEPT TIMEZONE CLOCK RM 300C	12	20	1			0.18	0.65			1	20	12	AV FLAT PANEL RM 301A	16
17	RECEPT TIMEZONE CLOCK RM 300Y	12	20	1					0.18	0.65	1	20	12	AV FLAT PANEL RM 301B	18
19	AV FLAT PANEL RM 300Z	12	20	1	0.65	0.65					1	20	12	AV FLAT PANEL RM 300B	20
21	AV FLAT PANEL RM 300C	12	20	1			0.65	0.90			1	20	12	RECEPT RM 301B	22
23	AV FLAT PANEL RM 300Y	12	20	1					0.65	0.90	1	20	12	RECEPT RM 301B	24
25	RECEPT RM 301A	12	20	1	0.90	0.90					1	20	12	RECEPT RM 300C	26
27	RECEPT RM 300Z	12	20	1			0.90	1.08			1	20	12	RECEPT RM 301B	28
29	RECEPT RM 301A	12	20	1					0.90	1.08	1	20	12	RECEPT SIMULATION CLASSROOM 300Z	30
31	RECEPT RM 301A	12	20	1	1.08	1.08					1	20	12	RECEPT RM 300C	32
33	RECEPT RM 300Y	12	20	1			1.08	0.36			1	20	12	RECEPT EXTERIOR	34
35	SPARE	--	20	1					0.00	1.08	1	20	12	RECEPT RM 300Z	36
37	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	42
				TOTAL	7.8		8.1		7.8		KVA				
					64.8		67.8		64.8		AMPS				
				CONNECTED LOAD	23.7		KVA		65.8		AMPS				
	NEC ARTICLE 220			DEMAND LOAD	16.9		KVA		46.8		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	23700 VA	71.10%	16850 VA		
				Total Conn. Load:	23700 VA
				Total Est. Demand:	16850 VA
				Total Conn.:	66 A
				Total Est. Demand:	47 A

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

E-611

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:36 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. * SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

PANEL TR1

FED FROM: DPLV1
LOCATION: COMM 208
MOUNT: SURFACE

100 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT TELECOM RACK RM 208	12	20	1	0.18	0.18					1	20	12	RECEPT TELECOM RACK RM 208	2
3	RECEPT TELECOM RACK RM 208	12	20	1			0.18	0.72			1	20	12	RECEPT RM 208	4
5	RECEPT TELECOM RACK RM 208	12	20	1					0.18	2.50	2	30	10	TELECOM RACK RM 208	6
7	RECEPT TELECOM RACK RM 208	12	20	1	0.18	2.50					--	--	--	--	8
9	RECEPT RM 208	12	20	1			0.72	1.58			2	25	10	SSCU-02	10
11	RECEPT TELECOM RACK RM 208	12	20	1					0.18	1.58	--	--	--	--	12
13	RECEPT TELECOM RACK RM 208	12	20	1	0.18	0.18					1	20	12	RECEPT TELECOM RACK RM 208	14
15	RECEPT TELECOM RACK RM 208	12	20	1			0.18	0.18			1	20	12	RECEPT TELECOM RACK RM 208	16
17	SURGE PROTECTIVE DEVICE	--	20	3					0.00	0.00	1	20	--	SPARE	18
19	--	--	--	--	0.00	0.00					1	20	--	SPARE	20
21	--	--	--	--			0.00	0.00			1	20	--	SPARE	22
23	SPARE	--	20	2					0.00	0.00	--	--	--	PROVISIONED SPACE	24
25	--	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	26
27	SPARE	--	20	1			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	30
				TOTAL	3.4		3.6		4.4		KVA				
					28.3		29.9		37.2		AMPS				
				CONNECTED LOAD	11.4		KVA		31.6		AMPS				
NEC ARTICLE 220				DEMAND LOAD	10.5		KVA		29.0		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	8240 VA	100.00%	8240 VA		
UFC-HVAC-70%	3162 VA	70.00%	2213 VA	Total Conn. Load:	11402 VA
				Total Est. Demand:	10453 VA
				Total Conn.:	32 A
				Total Est. Demand:	29 A

PANEL TR2

FED FROM: DPLV1
LOCATION: COMM 115
MOUNT: SURFACE

100 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT TELECOM RACK RM 115	12	20	1	0.18	0.18					1	20	12	RECEPT TELECOM RACK RM 115	2
3	RECEPT TELECOM RACK RM 115	12	20	1			0.18	0.18			1	20	12	RECEPT TELECOM RACK RM 115	4
5	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	6
7	RECEPT TELECOM RACK RM 115	12	20	1	0.18	0.18					1	20	12	RECEPT TELECOM RACK RM 115	8
9	TELECOM RACK RM 115	10	30	2			2.50	0.00			1	20	--	SPARE	10
11	--	--	--	--					2.50	0.92	2	25	10	HPCU-01	12
13	RECEPT RM 115	12	20	1	1.08	0.92					--	--	--	--	14
15	SPARE	--	20	2			0.00	0.00			3	20	--	SURGE PROTECTIVE DEVICE	16
17	--	--	--	--					0.00	0.00	--	--	--	--	18
19	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	--	20
21	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	22
23	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	24
25	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	26
27	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	30
				TOTAL	2.7		2.9		3.4		KVA				
					22.6		24.0		28.6		AMPS				
				CONNECTED LOAD	9.0		KVA		25.0		AMPS				
NEC ARTICLE 220				DEMAND LOAD	8.4		KVA		23.4		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	7160 VA	100.00%	7160 VA		
UFC-HVAC-70%	1830 VA	70.00%	1281 VA	Total Conn. Load:	8990 VA
				Total Est. Demand:	8441 VA
				Total Conn.:	25 A
				Total Est. Demand:	23 A

PROVIDE 150A MCB FOR PANEL
PPC1 WITH SHUNT TRIP

PANEL PPC1

FED FROM: DPLV1
LOCATION: SIM CONTROL SECURE COMM 304B
MOUNT: SURFACE

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT RM 304B	12	20	1	0.90	3.00					1	30	10	RECEPT TELECOME RACK RM 304B	2
3	RECEPT TELECOME RACK RM 304B	10	30	1			3.00	3.00			1	20	12	RECEPT TELECOME RACK RM 304B	4
5	RECEPT TELECOME RACK RM 304B	12	20	1					3.00	3.00	1	30	10	RECEPT TELECOME RACK RM 304B	6
7	RECEPT TELECOME RACK RM 304B	12	20	1	3.00	3.00					1	20	12	RECEPT TELECOME RACK RM 304B	8
9	RECEPT TELECOME RACK RM 304B	10	30	1			3.00	3.00			1	30	10	RECEPT TELECOME RACK RM 304B	10
11	RECEPT TELECOME RACK RM 304B	12	20	1					3.00	2.08	2	30	10	SSCU-03	12
13	SURGE PROTECTIVE DEVICE	--	20	3	0.00	2.08					--	--	--	--	14
15	--	--	--	--			0.00								16
17	--	--	--	--					0.00	0.00	1	20	--	SPARE	18
19	SPARE	--	30	1	0.00	0.00					1	20	--	SPARE	20
21	SPARE	--	30	1			0.00	0.00			1	20	--	SPARE	22
23	SPARE	--	20	1					0.00	0.00	--	--	--	PROVISIONED SPACE	24
25	SPARE	--	20	1	0.00	0.00					--	--	--	PROVISIONED SPACE	26
27	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	30
				TOTAL	12.0		12.0		11.1		KVA				
					101.0		101.2		92.3		AMPS				
				CONNECTED LOAD	35.1		KVA		97.3		AMPS				
NEC ARTICLE 220				DEMAND LOAD	33.8		KVA		93.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	30000 VA	100.00%	30000 VA		
RECEPT	900 VA	100.00%	900 VA	Total Conn. Load:	35060 VA
UFC-HVAC-70%	4160 VA	70.00%	2912 VA	Total Est. Demand:	33812 VA
				Total Conn.:	97 A
				Total Est. Demand:	94 A

PROVIDE 400A MCB FOR PANEL
PPS1 WITH SHUNT TRIP

PANEL PPS1

FED FROM: DPLV1
LOCATION: SIM CONTROL (SERVER ROOM) 304A
MOUNT: SURFACE

400 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	CACCTUS (C) UPS RM 304A	12	15	1	1.00	1.00					1	15	12	CACCTUS (C) UPS RM 304A	2
3	CACCTUS (C) UPS RM 304A	4	70	2			5.00	5.00			2	70	4	CACCTUS (U) UPS RM 304A	4
5	--	--	--	--					5.00	5.00	--	--	--	--	6
7	MTWS (C) UPS RM 304A	10	30	1	3.00	5.00					2	70	4	CACCTUS (C) UPS RM 304A	8
9	CACCTUS (U) UPS RM 304A	12	15	1			1.00	5.00			--	--	--	--	10
11	CACCTUS (U) UPS RM 304A	4	70	2					5.00	1.00	1	15	12	CACCTUS (U) UPS RM 304A	12
13	--	--	--	--	5.00	1.00					1	15	12	CACCTUS (U) UPS RM 304A	14
15	CACCTUS (C) UPS RM 304A	12	15	1			1.00	3.00			1	30	10	MTWS (U) UPS RM 304A	16
17	CACCTUS (U) UPS RM 304A	12	15	1					1.00	3.00	1	30	10	MTWS (U) UPS RM 304A	18
19	CACCTUS (C) UPS RM 304A	12	15	1	1.00	3.00					1	30	10	MTWS (U) UPS RM 304A	20
21	MTWS (U) UPS RM 304A	10	30	1			3.00	3.00			1	30	10	MTWS (U) UPS RM 304A	22
23	MTWS (U) UPS RM 304A	10	30	1					3.00	3.00	1	30	10	MTWS (U) UPS RM 304A	24
25	MTWS (U) UPS RM 304A	10	30	1	3.00	3.00					1	30	10	MTWS (C) UPS RM 304A	26
27	MTWS (C) UPS RM 304A	10	30	1			3.00	3.00			1	30	10	MTWS (C) UPS RM 304A	28
29	MTWS (C) UPS RM 304A	10	30	1					3.00	3.00	1	30	10	MTWS (C) UPS RM 304A	30
31	MTWS (C) UPS RM 304A	10	30	1	3.00	3.00					1	30	10	MTWS (C) UPS RM 304A	32
33	SPARE	--	30	1			0.00	0.00			1	30	--	SPARE	34
35	SPARE	--	15	1					0.00	0.00	1	30	--	SPARE	36
37	SPARE	--	15	1	0.00	0.00					3	20	--	SURGE PROTECTIVE DEVICE	38
39	SPARE	--	70	2			0.00	0.00			--	--	--	--	40
41	--	--	--	--					0.00	0.00	--	--	--	--	42
				TOTAL	32.0		32.0		32.0		KVA				
					266.7		266.7		266.7		AMPS				
				CONNECTED LOAD	96.0		KVA		266.5		AMPS				
NEC ARTICLE 220				DEMAND LOAD	96.0		KVA		266.5		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	96000 VA	100.00%	96000 VA		
				Total Conn. Load:	96000 VA
				Total Est. Demand:	96000 VA
				Total Conn.:	266 A
				Total Est. Demand:	266 A

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
E-612

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:39 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. * SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

PROVIDE 125A MCB FOR PANEL
PPS2 WITH SHUNT TRIP

FED FROM: DPLV1
LOCATION: SIM CONTROL (SERVER ROOM) 304A
MOUNT: SURFACE

PANEL PPS2

125 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT MCEN (U) RACK RM 304A	12	20	1	0.18	0.90					1	20	12	RECEPT RM 304A	2
3	RECEPT MCEN (U) RACK RM 304A	12	20	1			0.18	0.90			1	20	12	RECEPT RM 304A	4
5	MCEN (U) UPS RM 304A	10	30	1					2.00	2.00	1	30	10	MCEN (U) UPS RM 304A	6
7	MCEN (U) UPS RM 304A	10	30	1	2.00	0.18					1	20	12	RECEPT TIE (U) RACK RM 304A	8
9	MCEN (U) UPS RM 304A	10	30	1			2.00	0.18			1	20	12	RECEPT TIE (U) RACK RM 304A	10
11	RECEPT TIE (U) RACK RM 304A	12	20	1					0.18	0.18	1	20	12	RECEPT TIE (U) RACK RM 304A	12
13	RECEPT TIE (U) RACK RM 304A	12	20	1	0.18	0.18					1	20	12	RECEPT TIE (U) RACK RM 304A	14
15	RECEPT TIE (U) RACK RM 304A	12	20	1			0.18	0.18			1	20	12	RECEPT TIE (U) RACK RM 304A	16
17	RECEPT TIE (U) RACK RM 304A	12	20	1					0.18	0.18	1	20	12	RECEPT TIE (U) RACK RM 304A	18
19	RECEPT MCEN (U) RACK RM 304A	12	20	1	0.18	0.18					1	20	12	RECEPT MCEN (U) RACK RM 304A	20
21	RECEPT MCEN (U) RACK RM 304A	12	20	1			0.18	0.18			1	20	12	RECEPT MCEN (U) RACK RM 304A	22
23	RECEPT MCEN (U) RACK RM 304A	12	20	1					0.18	0.18	1	20	12	RECEPT MCEN (U) RACK RM 304A	24
25	RECEPT MCEN (U) RACK RM 304A	12	20	1	0.18	2.00					1	30	10	TIE (U) UPS RM 304A	26
27	RECEPT MCEN (U) RACK RM 304A	12	20	1			0.18	2.00			1	30	10	TIE (U) UPS RM 304A	28
29	TIE (U) UPS RM 304A	10	30	1					2.00	2.00	1	30	10	TIE (U) UPS RM 304A	30
31	MCEN (U) UPS RM 304A	10	30	1	2.00	0.00					3	20	--	SURGE PROTECTIVE DEVICE	32
33	TIE (U) UPS RM 304A	10	30	1			2.00	0.00			--	--	--	--	34
35	SPARE	--	20	1					0.00	0.00	--	--	--	--	36
37	SPARE	--	20	1	0.00	0.00					1	30	--	SPARE	38
39	SPARE	--	20	1			0.00	0.00			1	30	--	SPARE	40
41	SPARE	--	20	1					0.00	0.00	1	30	--	SPARE	42
			TOTAL		8.2		8.2		9.1		KVA				
					68.0		68.0		75.7		AMPS				
			CONNECTED LOAD		25.4		KVA		70.5		AMPS				
NEC ARTICLE 220			DEMAND LOAD		25.4		KVA		70.5		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	23600 VA	100.00%	23600 VA		
RECEPT	1800 VA	100.00%	1800 VA	Total Conn. Load:	25400 VA
				Total Est. Demand:	25400 VA
				Total Conn.:	71 A
				Total Est. Demand:	71 A

PROVIDE 125A MCB FOR PANEL
PPS3 WITH SHUNT TRIP

FED FROM: DPLV1
LOCATION: SIM CONTROL (SERVER ROOM) 304A
MOUNT: SURFACE

PANEL PPS3

125 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT SIPR (C) RACK RM 304A	12	20	1	0.18	2.00					1	30	10	SIPR (C) UPS RM 304A	2
3	RECEPT SIPR (C) RACK RM 304A	12	20	1			0.18	2.00			1	30	10	SIPR (C) UPS RM 304A	4
5	SIPR (C) UPS RM 304A	10	30	1					2.00	2.00	1	30	10	TIE (C) UPS RM 304A	6
7	SIPR (C) UPS RM 304A	10	30	1	2.00	0.18					1	20	12	RECEPT TIE (C) RACK RM 304A	8
9	SIPR (C) UPS RM 304A	10	30	1			2.00	0.18			1	20	12	RECEPT TIE (C) RACK RM 304A	10
11	TIE (C) UPS RM 304A	10	30	1					2.00	0.18	1	20	12	RECEPT TIE (C) RACK RM 304A	12
13	RECEPT TIE (C) RACK RM 304A	12	20	1	0.18	0.18					1	20	12	RECEPT TIE (C) RACK RM 304A	14
15	RECEPT TIE (C) RACK RM 304A	12	20	1			0.18	0.18			1	20	12	RECEPT TIE (C) RACK RM 304A	16
17	RECEPT TIE (C) RACK RM 304A	12	20	1					0.18	0.18	1	20	12	RECEPT TIE (C) RACK RM 304A	18
19	RECEPT SIPR (C) RACK RM 304A	12	20	1	0.18	0.18					1	20	12	RECEPT SIPR (C) RACK RM 304A	20
21	RECEPT SIPR (C) RACK RM 304A	12	20	1			0.18	0.18			1	20	12	RECEPT SIPR (C) RACK RM 304A	22
23	RECEPT TIE (C) RACK RM 304A	12	20	1					0.18	0.18	1	20	12	RECEPT SIPR (C) RACK RM 304A	24
25	RECEPT SIPR (C) RACK RM 304A	12	20	1	0.18	2.00					1	30	10	TIE (C) UPS RM 304A	26
27	RECEPT SIPR (C) RACK RM 304A	12	20	1			0.18	2.00			1	30	10	TIE (C) UPS RM 304A	28
29	RECEPT SIPR (C) RACK RM 304A	12	20	1					0.18	2.00	1	30	10	TIE (C) UPS RM 304A	30
31	RECEPT RM 304A	12	20	1	0.90	1.08					1	20	12	RECEPT RM 304A	32
33	SURGE PROTECTIVE DEVICE	--	20	3			0.00	0.00			1	30	--	SPARE	34
35	--	--	--	--					0.00	0.00	1	20	--	SPARE	36
37	--	--	--	--	0.00	0.00					1	20	--	SPARE	38
39	SPARE	--	30	1			0.00	0.00			1	20	--	SPARE	40
41	SPARE	--	30	1					0.00	0.00	1	20	--	SPARE	42
			TOTAL		9.2		7.3		9.1		KVA				
					79.3		60.5		78.0		AMPS				
			CONNECTED LOAD		25.6		KVA		71.0		AMPS				
NEC ARTICLE 220			DEMAND LOAD		25.6		KVA		71.0		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	23600 VA	100.00%	23600 VA		
RECEPT	1980 VA	100.00%	1980 VA	Total Conn. Load:	25580 VA
				Total Est. Demand:	25580 VA
				Total Conn.:	71 A
				Total Est. Demand:	71 A

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

RQ Jordan COMPANY ~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

E-613

DP2 SUBMISSION – P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 6/10/2021 5:42:41 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt