DATA SYMBOL LEGEND

PLAN SYMBOL	NAME	DESCRIPTION
TV	TELEVISION OUTLET AND WALL BOX	GENERAL: PROVIDE TELEVISION, ROUGH IN DATA CONNECTIONS AS DESCRIBED IN THESE GENERAL NOTES. REFER TO PLANS FOR TELEVISION OUTLET/ WALL BOX DESIGNATION. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT AND INTERIOR ELEVATIONS. SUBMIT PRODUCT DATA FOR APPROVAL. NO TYPE. DATA TELEVISION OUTLET: PROVIDE ROUGH-IN PER COMMUNICATIONS OUTLET DETAIL. PROVIDE ONE (1) BACK BOX WITH SINGLE GANG TRIM RING AND ONE (1) 3/4" CONDUIT TO ABOVE ACCESSABLE CORRIDOR CEILING FOR OWNER PROVIDE DATA CABLING. PROVIDE WITH PULL STRING. PROVIDE DUPLEX RECEPTACLE MOUNTED ADJACENT TO TELEVISION OUTLET PER PLANS. RECEPTACLE SHALL BE MOUNTED WITHIN 12".

NURSE CALL SYMBOL LEGEND

PLAN SYMBOL	NAME	DEFAULT MOUNTING HEIGHT	ROUGH-IN	DESCRIPTION
NCC	NURSE CALL CONTROL CABINET - SURFACE	48"	--	CIRCUIT CONTROL CABINET TO 20A 120V BRANCH CIRCUIT IN LOCAL CRITICAL BRANCH PANEL OF THE ASSOCIATED CONSTRUCTION PHASE. REFER TO FLOOR PLANS FOR BRANCH CIRCUIT DESIGNATIONS. COORDINATE CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SELECTION AND PROVIDE NEMA 5-20 RECEPTACLE OR HARD-WIRED CONNECTION TO CABINET AS REQUIRED.

NURSE CALL SYMBOLS

PLAN SYMBOL	NAME	DEFAULT MOUNTING HEIGHT	ROUGH-IN
BSID NC	ROUGH-IN BEDSIDE STATION	48"	COORDINATE
CODE NC	ROUGH-IN CODE BLUE STATION	48"	COORDINATE
D	ROUGH-IN DOME - CEILING	CEILING	COORDINATE
D	ROUGH-IN DOME LIGHT - WALL	92"	COORDINATE
STF NC	ROUGH-IN STAFF ASSIST STATION	48"	COORDINATE
TLT NC	ROUGH-IN TOILET STATION	36"	COORDINATE

SECURITY SYMBOL LEGEND

PLAN SYMBOL	NAME	DESCRIPTION
AC	ACCESS CONTROL PANEL	CIRCUIT CONTROL PANEL TO 20A 120V BRANCH CIRCUIT IN LOCAL EQUIPMENT BRANCH PANEL OF THE ASSOCIATED CONSTRUCTION PHASE. REFER TO FLOOR PLANS FOR BRANCH CIRCUIT DESIGNATIONS. COORDINATE CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SELECTION AND PROVIDE NEMA 5-20 RECEPTACLE OR HARD-WIRED CONNECTION TO CABINET AS REQUIRED.
DO	DOOR OPERATOR	PROVIDE 20A 120V LIFE SAFETY BRANCH CIRCUIT TO DOOR OPERATOR. REFER TO FLOOR PLANS FOR BRANCH CIRCUIT DESIGNATIONS. COORDINATE REQUIRED ROUGH-IN TO DOOR FRAME FOR PUSH PLATE OR HAND WAVE ACTUATOR CABLING WITH DOOR HARDWARE CONTRACTOR. INCLUDE INTERLOCKS WITH OTHER DOOR HARDWARE COMPONENTS REQUIRED BY THE DOOR HARDWARE SPECIFICATION INCLUDING BUT NOT LIMITED TO CARD READER, ELECTRIC STRIKE, ELECTRIFIED HINGE, MAGNETIC LOCK. REQUEST TO EXIT, MOTION SAFETY CONTROLS, KEY SWITCH, AND POWER SUPPLY. WHERE DOOR IS ALSO SPECIFIED/SHOWN TO UTILIZE ACCESS CONTROL, PROVIDE INTERLOCK TO ALLOW AUTOMATIC DOOR OPENING FROM THE ACCESS CONTROL SYSTEM UPON SUCCESSFUL CARD READ. PROVIDE FIRE ALARM SYSTEM CONNECTION FOR OPERATOR DISABLING UPON ALARM. INTEGRATE DOOR OPERATOR WITH FIRE ALARM, ACCESS CONTROL, INTERCOM, AND DOOR HARDWARE. REFER TO PUSH PLATE OR HAND WAVE ACTUATOR SYMBOL LEGEND DESCRIPTION FOR ADDITIONAL REQUIREMENTS. COORDINATE INSTALLATION WITH DOOR HARDWARE CONTRACTOR.
ID	INTRUSION DETECTION SYSTEM - CONTROL PANEL	CIRCUIT CONTROL PANEL TO 20A 120V BRANCH CIRCUIT IN LOCAL LIFE SAFTEY BRANCH PANEL OF THE ASSOCIATED CONSTRUCTION PHASE. REFER TO FLOOR PLANS FOR BRANCH CIRCUIT DESIGNATIONS. COORDINATE CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SELECTION AND PROVIDED NEMA 5-20 RECEPTACLE OR HARD-WIRED CONNECTION TO CONTROL PANEL AS REQUIRED. PROVIDE ONE (1) NETWORK DATA CABLE FROM ASSOCIATED COMMUNICATIONS DISTRIBUTION ROOM. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE SYSTEM PER SPECIFICATION SECTION 281600 INCLUDING BUT NOT LIMITED TO INSTALLATION, CONFIGURATION, DEVICES, ROUGH-INS, AND CABLING. SUBMIT SHOP DRAWINGS FOR APPROVAL. COORDINATE EXACT LOCATION OF KEYPAD WITH ENGINEER, ARCHITECT, AND ARCHITECTURAL INTERIOR ELEVATIONS.

COMMUNICATION SYMBOL LEGEND

PLAN SYMBOL	NAME	DESCRIPTION
I	COMMUNICATIONS FIRE RATED PATHWAY – WALL	PROVIDE STI FIRESTOP EZ-PATH COMMUNICATIONS FIRE RATED PATHWAY AT LOCATIONS INDICATED ON FLOORPLANS. MOUNT PATHWAYS ABOVE ACCESSIBLE CEILING SPACES. COORDINATE MOUNTING HEIGHT WITH CABLE TRAY, TELECOMMUNICATION RACK HEIGHTS, CEILING, AND OTHER TRADES. INSTALL PER MANUFACTURERS RECOMMENDATIONS. COORDINATE REQUIRED WALL OPENING WITH STUD SPACING. REFER TO FLOOR PLANS FOR PATHWAY TYPE AND QUANTITIES. PROVIDE PATHWAY TYPES AS INDICATED BELOW. (A1) - FULL KIT CATALOG # EZDP133CWK (1-3"x3" PATHWAY) (A2) - FULL KIT CATALOG # EZDP233GK (2-3"x3" PATHWAYS) (A3) - FULL KIT CATALOG # EZDP333GK (3-3"x3" PATHWAYS) (A4) - FULL KIT CATALOG # EZDP433GK (4-3"x3" PATHWAYS) (A7) - FULL KIT CATALOG # EZDP733GK (7-3"x3" PATHWAYS) (A8) - TWO (2) FULL KIT CATALOG # EZDP433GK (8-3"x3" PATHWAYS) (STACKED) (B1) - FULL KIT CATALOG # EZD22 (1-2"x2" PATHWAY) (C1) - FULL KIT CATALOG # EZDP44SZ (1-4"x4" PATHWAY) (C2) - TWO (2) MODULE CATALOG # EZD44S2 & ONE (1) EZP544W (2-4"x4" PATHWAYS) (C3) - THREE (3) CATALOG # EZD44S2 & ONE (1) EZP544W (3-4"x4" PATHWAYS) (C4) - FOUR (4) CATALOG # EZD44S2 & ONE (1) EZP544W (4-4"x4" PATHWAYS) (REQUIRES 16" STUD SPACING) (C5) - FIVE (5) CATALOG # EZD44S2 & ONE (1) EZP544W (5-4"x4" PATHWAYS) (REQUIRES 24" STUD SPACING) PROVIDE STI FIRESTOP EZ-PATH CABLE SPILLWAY AT LOCATIONS INDICATED ON FLOORPLANS WITH SUBSCRIPT 'S'. PROVIDE ONE (1) SPILLWAY PER SLEEVE. REFER TO FLOORPLANS FOR SPILLWAY TYPE AND QUANTITIES. (AWS) - CATALOG NO. RCM33 (CWS) - CATALOG NO. EZRCM44S PROVIDE STI FIRESTOP EZ-PATH EXTENSION MODULES AT LOCATIONS INDICATED ON PLANS WITH SUBSCRIPT 'E'. PROVIDE ONE (1) EXTENSION MODULE PER SLEEVE. WHERE PATHWAY IS INDICATED WITH SUBSCRIPT 'EE', PROVIDE ONE (1) EXTENSION MODULES ON EACH END. REFER TO FLOORPLANS FOR EXTENSION MODULE TYPE AND QUANTITIES. (AWE) - CATALOG NO. EZD33E (CWE) - CATALOG NO. EZD44ES
—	PLYWOOD BACKBOARD	PROVIDE 3/4" THICK X 4' WIDE X 8' HIGH A/C GRADE FIRE-RETARDANT TREATED PLYWOOD BACKBOARD AT APPROXIMATE LOCATION INDICATED. MOUNT BOTTOM OF PLYWOOD AT 24" AND TOP OF PLYWOOD AT 120". REFER TO FLOORPLANS FOR WIDTHS. CUT ADDITIONAL PLYWOOD TO FIT APPROXIMATE WIDTH INDICATED ON FLOORPLANS. MOUNT PLYWOOD VERTICALLY. BUTT ADJACENT SHEETS TIGHTLY, AND FORM SMOOTH GAP-FREE CORNERS AND JOINTS. PROVIDE WITH TWO (2) COATS OF WHITE PAINT ON ALL FACES AND EDGES. PROVIDE WITH LABEL ON EACH SHEET OF PLYWOOD WITH FIRE RATINGS, VISIBLE AFTER PAINTING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL EQUIPMENT SYMBOL LEGEND

PLAN SYMBOL	NAME	DESCRIPTION
	GENERATOR DOCKING STATION	PROVIDE TRYSTAR, INC. DUAL-PURPOSE GENERATOR/LOADBANK DOCKING STATION (OR PRIOR APPROVED EQUIVALENT) WITH VOLTAGE AND CURRENT RATINGS TO MATCH GENERATOR OUTPUT CIRCUIT BREAKER. PROVIDE ENCLOSURE WITH NEMA 3R CONSTRUCTION. PROVIDE WITH INTEGRAL CIRCUIT BREAKER SERVED FROM PERMANENT GENERATOR SOURCE KIRK KEY INTERLOCKED WITH ACCESS DOOR PROTECTING PORTABLE GENERATOR MALE 16 SERIES PANEL MOUNTS (CAM-LOKS). PROVIDE LOAD BANK FEMALE 16 SERIES PANEL MOUNTS (CAM-LOKS). PROVIDE WITH THE FOLLOWING OPTIONS: 2 WIRE AUTO START, BATTERY CHARGER NEMA 5-20 GFCI RECEPTACLE, AND BLOCK HEATER NEMA L5-30 RECEPTACLE. PROVIDE SEPARATE ELECTRICAL CONNECTIONS FROM PANEL 1LSL1, CIRCUITS 2 AND 4,6 TO SERVE BATTERY CHARGER AND BLOCK HEATER RECEPTACLES. PROVIDE SIGN ON FRONT OF CABINET STATING THE FOLLOWING: MAXIMUM GENERATOR CIRCUIT BREAKER SIZE: 600 AMPS GENERATOR SYSTEM IS A SEPARATELY DERIVED SYSTEM. BOND GENERATOR NEUTRAL AND GROUND

ELECTRICAL EQUIPMENT SYMBOLS

PLAN SYMBOL	NAME
	AUTOMATIC TRANSFER SWITCH
	ENCLOSED CIRCUIT BREAKER - SURFACE
	ENCLOSED DISCONNECT SWITCH - NON-FUSED
	GENERATOR
	LOW VOLTAGE PANEL - SURFACE
	PANELBOARD - ISOLATED POWER
	PANELBOARD - SURFACE
	SWITCHBOARD
	TRANSFORMER - DRY TYPE

SECURITY SYMBOLS

PLAN SYMBOL	NAME
KEYPAD ID	INTRUSION DETECTION SYSTEM - KEYPAD
CR	ROUGH-IN ACCESS CONTROL CREDENTIAL CARD READER
AC	ROUGH-IN ACCESS CONTROL DEVICE
HW	ROUGH-IN DOOR OPERATOR HAND WAVE ACTUATOR
MS VI	ROUGH-IN INTERCOM - VIDEO MASTER STATION
WS VI	ROUGH-IN INTERCOM - VIDEO WALL STATION
C	ROUGH-IN SECURITY SURVEILLANCE CAMERA - CEILING
C	ROUGH-IN SECURITY SURVEILLANCE CAMERA - WALL

ONE LINE SYMBOL

PLAN SYMBOL	NAME
	AUTOMATIC TRANSFER SWITCH
	CIRCUIT BREAKER
	CONTINUATION
DM	DIGITAL METER
G	GENERATOR
	GENERATOR CONNECTION BOX
	GROUND BAR
	GROUNDING ELECTRODE
	KEY INTERLOCK
	PANEL BOARD
SPD	SURGE PROTECTIVE DEVICE
	SWITCHBOARD/SWITCHGEAR
	THREE-WAY MOTOR-OPERATED CONTROL VALVE
	TRANSFORMER
	TWO-WAY MOTOR-OPERATED CONTROL VAVLE
M	UTILITY METER

COMMUNICATION SYMBOLS

PLAN SYMBOL	NAME
S	ROUGH-IN CEILING SPEAKER

DATA SYMBOLS

PLAN SYMBOL	NAME
▼	ROUGH-IN COMMUNICATIONS OUTLET - WALL
WAP	ROUGH-IN WIRELESS ACCESS POINT - CEILING

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SHEET NAME
ELECTRICAL SYMBOLS AND ABBREVIATIONS

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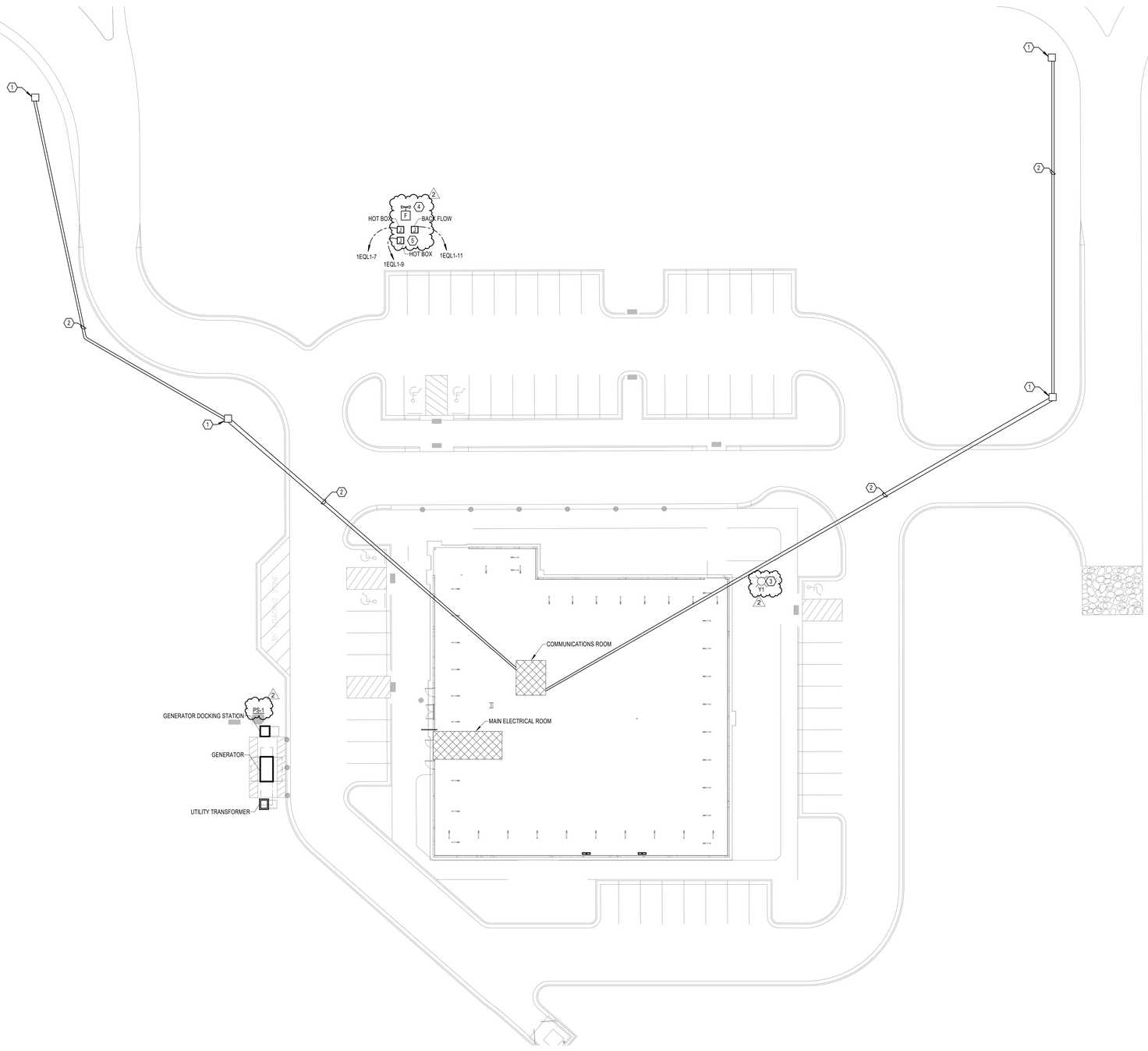

A1 SITE PLAN - ELECTRICAL
1" = 20'-0"

SHEET NOTES:

1. PROVIDE 3'x0'x3' QUAZITE OR EQUIVALENT IN-GRADE PULLBOX FOR TELECOMMUNICATIONS CABLING. REFER TO COMMUNICATIONS UNDERGROUND PULL BOX DETAIL ON SHEET E600 FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE (2) 4" SCHEDULE 40 PVC CONDUITS AS INDICATED FOR TELECOMMUNICATIONS CABLING MINIMUM 36" BELOW GRADE WITH METALLIC WARNING TAPE 12" ABOVE TOP OF CONDUITS. PROVIDE EACH CONDUIT WITH (1) 4", 3 CELL MAXCELL EDGE DETECTABLE FABRIC INNERDUCT.
3. PROVIDE UL-1008 DEVICE TO SERVE BOLLARD AS PART OF EMERGENCY EGRESS LIGHTING SYSTEM. UTILIZE COMMON LIFE SAFETY BRANCH CIRCUIT SERVING EGRESS LIGHTING WITHIN BUILDING FOR EMERGENCY SOURCE. UTILIZE LIGHTING BRANCH CIRCUIT 1NL1-55 TO FOR NORMAL SOURCE. CONTROL TO MATCH LEASED SITE LIGHTING.
4. PROVIDE TAMPER SWITCH AT PIV LOCATION. PROVIDE 1" CONDUIT FROM FIRE ALARM PANEL TO PIV FOR SYSTEM WIRING.
5. PROVIDE MONITORING OF FIRE SPRINKLER ENCLOSURE TEMPERATURE FROM THE FIRE ALARM SYSTEM. PROVIDE 1" CONDUIT FROM FIRE ALARM PANEL TO ENCLOSURE FOR SYSTEM WIRING. CONDUIT MAY BE SHARED WITH PIV MONITORING CONDUIT IN NOTE 4.

INSTALL GREEN INSULATED GROUND WIRE WITH LIGHTING, RECEPTACLE AND EQUIPMENT BRANCH CIRCUITS.

INSTALL INDIVIDUAL (DEDICATED) NEUTRAL CONDUCTORS FOR EACH 120V OR 277V PHASE CONDUCTOR SERVED FROM A SINGLE POLE CIRCUIT BREAKER

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ELECTRICAL SITE PLAN

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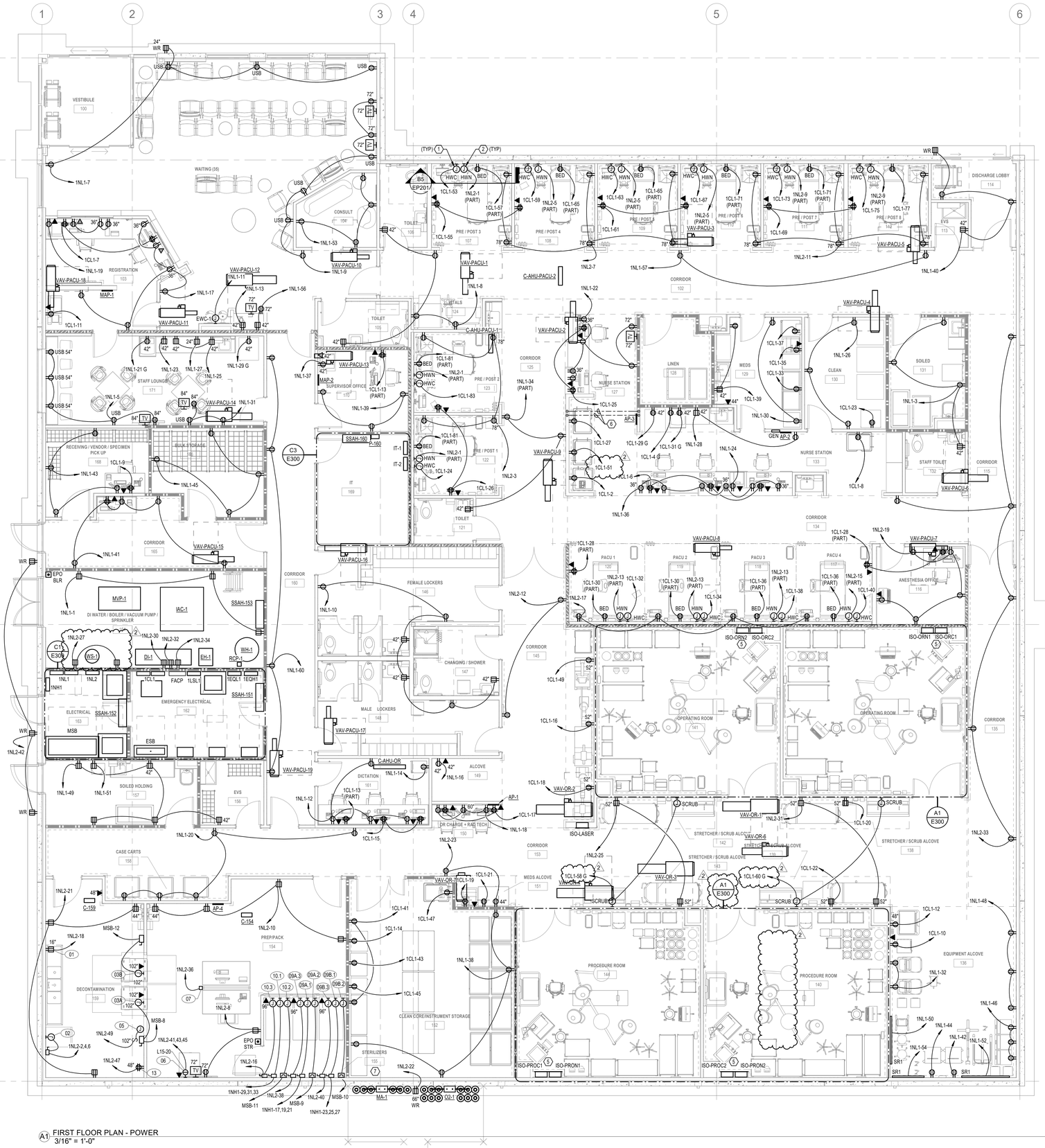


A1 FIRST FLOOR PLAN - POWER
3/16" = 1'-0"

POWER GENERAL NOTES:

(POWER GENERAL NOTES SHALL APPLY TO ALL SHEETS)

A. ELECTRICAL DEVICE MOUNTING HEIGHTS ARE NOT INDICATED ON ELECTRICAL FLOOR PLANS. CONTRACTOR SHALL COORDINATE EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL INTERIOR ELEVATIONS. WHERE DEVICE MOUNTING HEIGHTS ARE NOT INDICATED PER ARCHITECT, MOUNT DEVICES AT HEIGHT INDICATED IN ELECTRICAL PROJECT SPECIFICATIONS.

B. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL DEVICE ROUGH-IN LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS TO ASSURE COMPATIBILITY WITH FINISHES SPECIFIED ON THE ARCHITECTURAL DRAWINGS. ROUTE ALL ELECTRICAL BRANCH CIRCUITS AND CONDUITS SPECIFIED, TO COORDINATE WITH OTHER TRADES AND TO ALLOW FOR SERVICE AND MAINTENANCE AND TO MINIMIZE THE USE OF ACCESS PANELS. WHERE ACCESS PANELS CANNOT BE AVOIDED, ARRANGE WORK TO INSTALL PANELS IN LOCATIONS ACCEPTABLE TO ARCHITECT.

C. REFER TO DETAILS, SCHEDULES, AND SYMBOL LEGENDS FOR ADDITIONAL REQUIREMENTS.

D. REDUNDANT GROUNDING METHODS REQUIRED FOR PATIENT CARE AREAS. REFER TO NEC 517.13 FOR REQUIREMENTS AND TO PROJECT SPECIFICATIONS FOR ACCEPTABLE METHODS/APPLICATIONS.

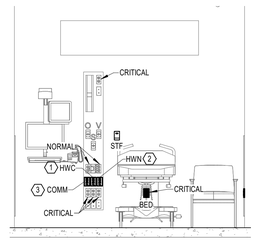
E. GFCI TYPE RECEPTACLES ARE NOTED AS SUCH ON THE PLANS FOR PRICING PURPOSES. HOWEVER, CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL RECEPTACLES INSTALLED WHERE A 6' CORD LENGTH COULD REACH THE EDGE OF A SINK HAVE GFCI PROTECTION.

F. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET E700 FOR ADDITIONAL REQUIREMENTS.

G. PROVIDE HOSPITAL-GRADE TAMPER RESISTANT RECEPTACLES FOR RECEPTACLES SHOWN ON FLOOR PLANS.

SHEET NOTES:

1. PROVIDE SINGLE POINT OF CONNECTION TO FEED CRITICAL POWER RECEPTACLES IN PRE-WIRED HEAD WALL. REFER TO TYPICAL PRE/POST HEADWALL ELEVATION B5 ON THIS SHEET FOR HEAD WALL LAYOUT. JUNCTION BOX TO FEED FOUR DUPLEX RECEPTACLES AT THIS HEAD WALL LOCATION. CRITICAL CIRCUIT TO BE DEDICATED TO THESE HEAD WALL CRITICAL POWER DEVICES.
2. PROVIDE SINGLE POINT OF CONNECTION TO FEED NORMAL POWER RECEPTACLE IN PRE-WIRED HEAD WALL. REFER TO TYPICAL PRE/POST HEADWALL ELEVATION B5 ON THIS SHEET FOR HEAD WALL LAYOUT. JUNCTION BOX TO FEED TWO DUPLEX RECEPTACLES AT THIS HEAD WALL LOCATION. NORMAL CIRCUIT TO FEED UP TO TWO SEPARATE HEAD WALL NORMAL POWER DEVICES.
3. PROVIDE SINGLE POINT OF CONNECTION TO HEAD WALL DATA DEVICES. DEVICES PER HEAD WALL MANUFACTURER. PROVIDE BACK BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE.
4. PROTECT ALL DEVICES IN THIS SPACE WITH HEAVY DUTY POLYCARBONATE FLIPCOVER.
5. PROVIDE 10KVA, 1Ø CIRCUIT CRITICAL AND NORMAL ISOLATED POWER PANELS IN A DUPLEX BACK BOX. PROVIDE WITH STAINLESS STEEL COVER.
6. PROVIDE CONDUITS BURIED WITHIN CONCRETE SLAB TO SERVE RECEPTACLES WITHIN KNEE HIGH WALL. PROVIDE ONE (1) 1" SPARE CONDUIT FOR FUTURE CONNECTION WITH PULL CORD IN ADDITION TO REQUIRED CONDUITS TO SERVE RECEPTACLES WITHIN KNEE HIGH WALL. CONDUIT SHALL STUB FROM ADJACENT WALL TO HALF HEIGHT KNEE WALL.
7. COORDINATE INSTALLATION OF DISCONNECT SWITCHES WITHIN STERILIZER ROOM TO MAINTAIN REQUIRED NFPA 70 WORKING SPACE REQUIREMENTS. COORDINATE LOCATIONS WITH OTHER TRADES.



B5 TYPICAL PRE/POST HEADWALL ELEVATION
3/8" = 1'-0"

RATED WALLS & PARTITIONS

FIRE BARRIER
1-HOUR
2-HOUR

FIRE & SMOKE BARRIER
1-HOUR
2-HOUR

SMOKE TIGHT PARTITION
SMOKE
SUITE PERIMETER

INSTALL GREEN INSULATED GROUND WIRE WITH LIGHTING, RECEPTACLE AND EQUIPMENT BRANCH CIRCUITS.

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SHEET NAME
FIRST FLOOR PLAN - POWER

SHEET NUMBER
EP201

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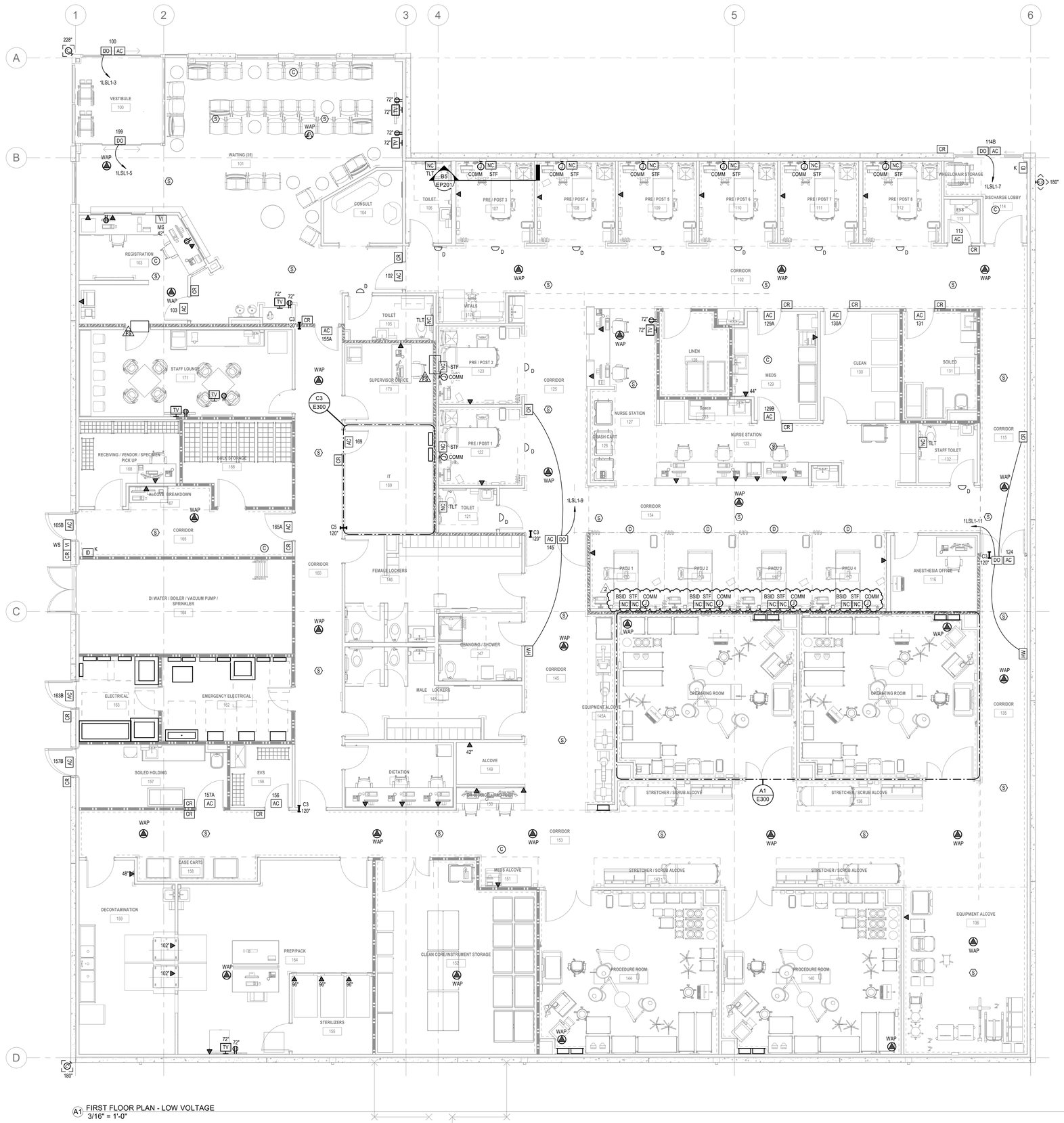

A1 FIRST FLOOR PLAN - LOW VOLTAGE
3/16" = 1'-0"

LOW VOLTAGE GENERAL NOTES:

(LOW VOLTAGE GENERAL NOTES SHALL APPLY TO ALL SHEETS)

A. COORDINATE THE LOCATIONS AND CONTROLS OF ALL FIRE/SMOKE DAMPERS WITH MECHANICAL CONTRACTOR PRIOR TO WORK.

SHEET NOTES:

1. PROVIDE SINGLE POINT OF CONNECTION TO HEAD WALL DATA DEVICES. DEVICES PER HEAD WALL MANUFACTURER. PROVIDE BACK BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. REFER TO TYPICAL PRE/POST HEADWALL ELEVATION B5 ON SHEET EP201 FOR HEAD WALL LAYOUT.

RATED WALLS & PARTITIONS

FIRE BARRIER
- 1-HOUR
- 2-HOUR

FIRE & SMOKE BARRIER
- 1-HOUR
- 2-HOUR

SMOKE TIGHT PARTITION
- SMOKE
- SUITE PERIMETER

INSTALL GREEN INSULATED GROUND WIRE WITH LIGHTING, RECEPTACLE AND EQUIPMENT BRANCH CIRCUITS.

INSTALL INDIVIDUAL (DEDICATED) NEUTRAL CONDUCTORS FOR EACH 120V OR 277V PHASE CONDUCTOR SERVED FROM A SINGLE POLE CIRCUIT BREAKER

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SHEET NAME
FIRST FLOOR PLAN - LOW VOLTAGE

SHEET NUMBER
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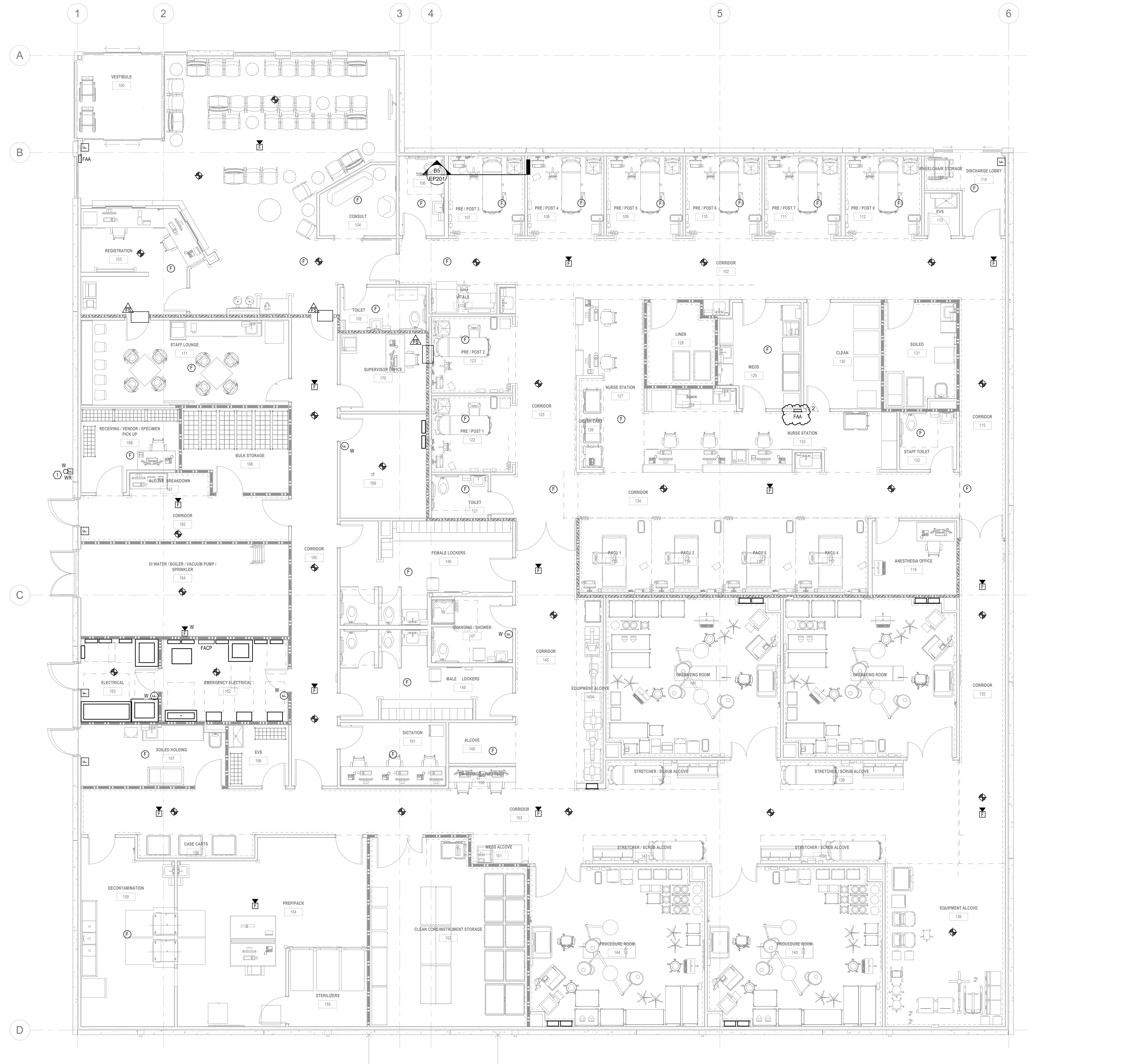

A1 FIRST LEVEL - FIRE ALARM
3/16" = 1'-0"

SHEET NOTES:

1. PROVIDE WEATHER RESISTANT, EXTERIOR NOTIFICATION DEVICE FOR FIRE SPRINKLER SERVICE. COORDINATE WITH FIRE SPRINKLER CONTRACTOR.

RATED WALLS & PARTITIONS

FIRE BARRIER
1-HOUR ▬
2-HOUR ▬

FIRE & SMOKE BARRIER
1-HOUR ▨
2-HOUR ▨

SMOKE TIGHT PARTITION
SMOKE ▭
SUITE PERIMETER ▭

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SES PROJECT # 22354

NOVANT HEALTH

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NORTH CAROLINA PROFESSIONAL SEAL 029777 09/19/2024 22354 ENGINEER CHARLES G. HALL

[illegible]

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CONSTRUCTION DOCUMENTS

Novant ASC Leland

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2	MODIFICATION 2	09/19/2024

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A/E #: 22354

Novant ASC Leland

SHEET NAME
FIRST FLOOR PLAN - FIRE ALARM

SHEET NUMBER
EF200

Autodesk Docs://Novant ASC Leland/22354_Novant Brunswick ASC_SES_2022.rvt
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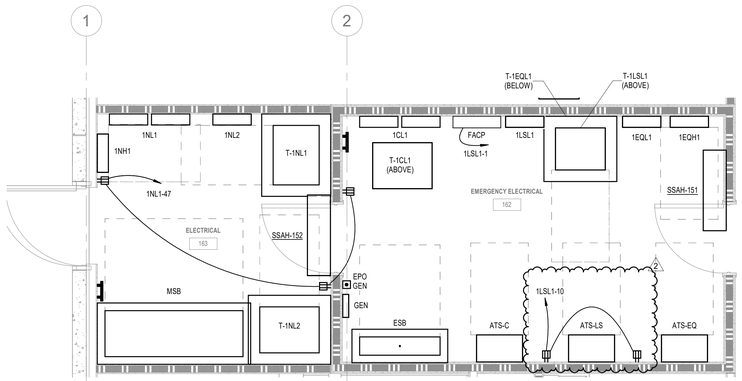
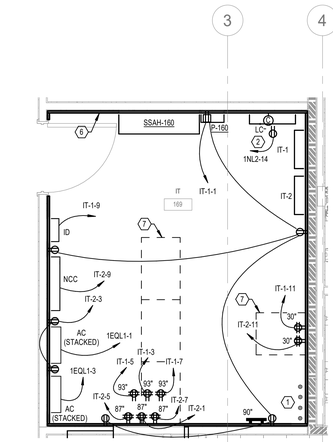
SHEET NOTES:

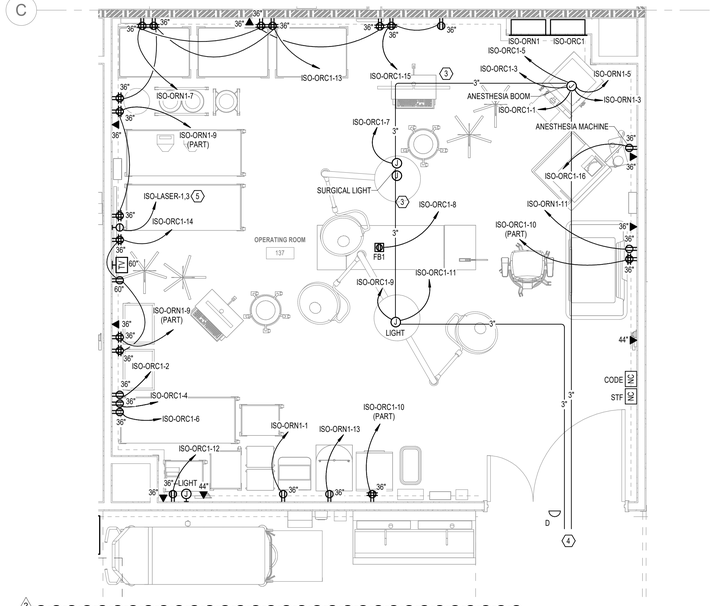
1. TELECOMMUNICATIONS ENTRANCE CONDUITS. REFER TO SHEET ES001 FOR CONTINUATION.
2. LOCATION RESERVED FOR LIGHTING CONTROL SYSTEM HEAD-END EQUIPMENT.
3. PROVIDE (1) 3" CONDUIT BETWEEN EACH OF THE TWO LIGHTING BOOMS AND THE ANESTHESIA COLUMN TO FORM AN INTERCONNECTED RACEWAY SYSTEM BETWEEN ALL BOOM AND COLUMN JUNCTION BOXES.
4. PROVIDE (2) 3" CONDUITS FROM THE JUNCTION BOX CONDUIT SYSTEM TO ABOVE ADJACENT, ACCESSIBLE CORRIDOR CEILING FOR FUTURE CABLING. GROUP SPARE CONDUIT CORRIDOR PENETRATIONS.
5. PROVIDE FLUSH MOUNT, ISOLATED POWER LASER POWER RECEPTACLE SYSTEM WITH STAINLESS STEEL FACEPLATE, REMOTE LINE ISOLATION MONITOR INDICATOR, IN-USE LIGHT, DOOR INTERLOCK TO ALLOW USE OF A SINGLE LASER, AND NEMA L6-30 RECEPTACLE. CONFIRM EXACT RECEPTACLE CONFIGURATION WITH NOVANT HEALTH PRIOR TO ORDERING EQUIPMENT.
6. MOUNT BOTTOM OF PLYWOOD AT 24" AND TOP OF PLYWOOD AT 120". REFER TO SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS.
7. COMMUNICATIONS RACK BY OTHERS. COORDINATE POWER LOCATIONS WITH FINAL RACK LOCATIONS.



C1 ENLARGED PLAN - ELECTRICAL/EMERGENCY ELECTRICAL - POWER & LOW VOLTAGE
3/8" = 1'-0"



C3 ENLARGED PLAN - IT - POWER & LOW VOLTAGE
3/8" = 1'-0"



A1 ENLARGED PLAN - OPERATING AND PROCEDURE ROOMS - POWER & LOW VOLTAGE
3/8" = 1'-0"

RATED WALLS & PARTITIONS

FIRE BARRIER
1-HOUR
2-HOUR

FIRE & SMOKE BARRIER
1-HOUR
2-HOUR

SMOKE TIGHT PARTITION
SMOKE
SUITE PERIMETER

INSTALL GREEN INSULATED GROUND WIRE WITH LIGHTING, RECEPTACLE AND EQUIPMENT BRANCH CIRCUITS.

INSTALL INDIVIDUAL (DEDICATED) NEUTRAL CONDUCTORS FOR EACH 120V OR 277V PHASE CONDUCTOR SERVED FROM A SINGLE POLE CIRCUIT BREAKER

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SHEET NAME
ENLARGED PLANS

SHEET NUMBER
E300

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AUTOMATIC TRANSFER SWITCH SCHEDULE

NAME	AMPS	VOLTAGE	PHASE	NUMBER OF POLES	BYPASS ISOLATION	TRANSITION TYPE	MIN. 3 CYCLE WCR	MIN. 30 CYCLE WCR	PRIORITY	REMARKS
ATS-C	125 A	480 V	3	3	No	OPEN IN-PHASE	19.5	--	1	
ATS-EQ	400 A	480 V	3	4	No	OPEN DELAYED	22.1	--	2	
ATS-LS	45 A	480 V	3	3	No	OPEN IN-PHASE	12.8	--	1	

REMARKS: (AUTOMATIC TRANSFER SWITCH SCHEDULE)
1. NOT USED.

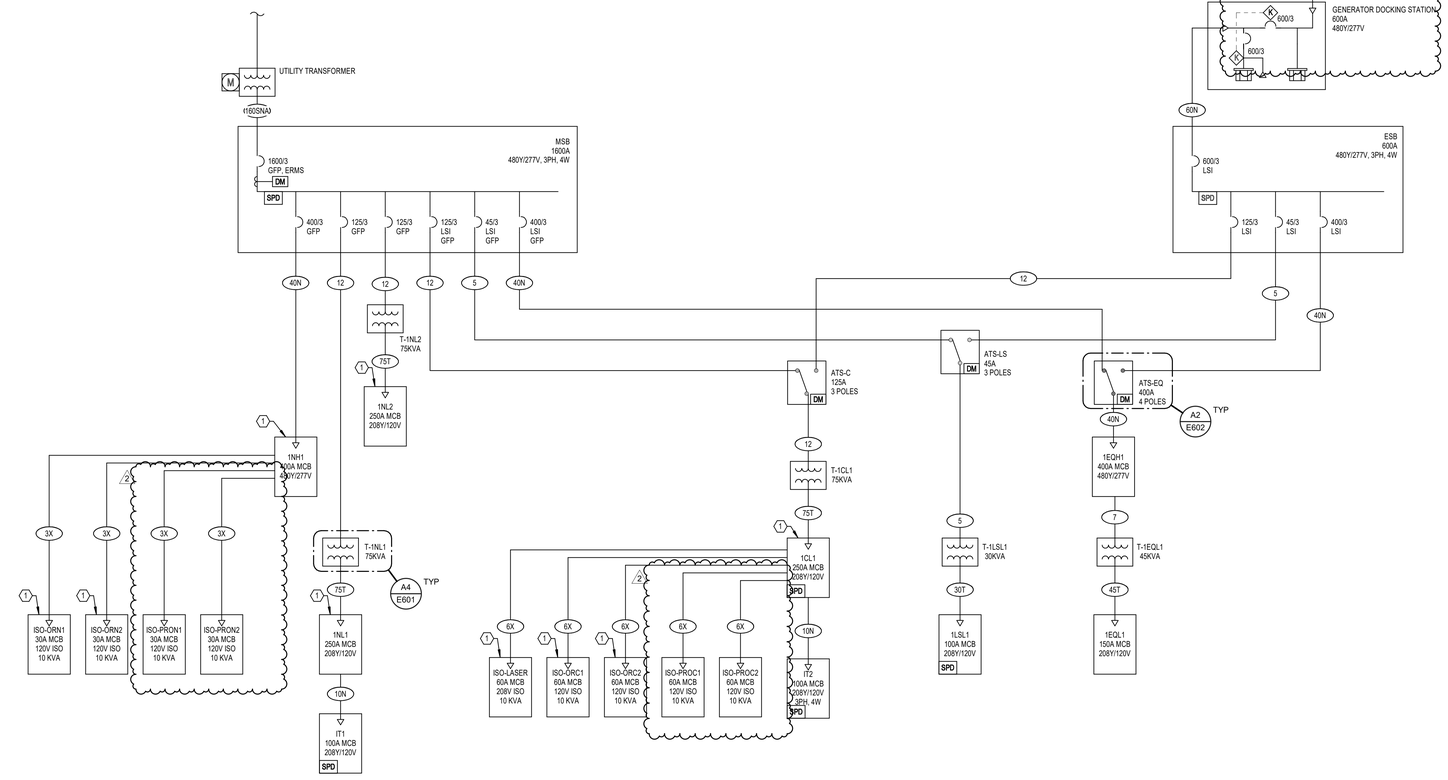
GENERAL NOTES: (AUTOMATIC TRANSFER SWITCH SCHEDULE)
A. REFER TO DEFINITIONS BELOW FOR CLARIFICATIONS OF REQUIREMENTS.
B. "MIN 3 CYCLE WCR" AND "MIN 30 CYCLE WCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC AT THE DURATION INDICATED. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION.
C. "PRIORITY" - GENERATOR LOADING AND ATS LOAD SHEDDING SHALL BE SETUP BASED ON THE FOLLOWING PRIORITY LEVELS WITH THE LOWEST NUMBER BEING THE FIRST LOAD STEP AND THE HIGHEST NUMBER BEING THE LAST LOAD STEP. QUANTITY OF LOAD STEPS SHALL BE MINIMUM REQUIRED FOR SYSTEM CONFIGURATION. ADDITIONAL LOAD STEPS MAY BE ADDED TO ASSIST WITH GENERATOR STABILITY.
   a. "1" - POWER MUST BE TRANSFERRED TO LOAD FROM GENERATOR WITHIN 10 SECONDS. LOAD CANNOT BE SHED.
   b. "2,3,4, ETC." - LOAD CAN BE SHED. HIGHEST VALUES SHALL BE SHED FIRST.

FEEDER SCHEDULE - COPPER

FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
3X	30 A	2-#10 CU, #10 CU GND - 3/4" C.
5	50 A	3-#6 CU, #10 CU GND - 1" C.
6X	60 A	2-#4 CU, #10 CU GND - 1" C.
7	70 A	3-#4 CU, #8 CU GND - 1-1/4" C.
10N	100 A	4-#1 CU, #8 CU GND - 2" C.
12	125 A	3-#1/0 CU, #6 CU GND - 1-1/2" C.
30T	100 A	4-#1 CU, #6 CU GND - 2"C.
40N	400 A	4-#4/0 CU, #3 CU GND - 2-1/2" C. (2 SETS)
45T	150 A	4-#2/0 CU, #4 CU GND - 2"C.
60N	600 A	4-400 KCMIL CU, #1 CU GND - 3" C. (2 SETS)
75T	250 A	4-300 KCMIL CU, #2 CU GND - 3"C.

FEEDER SCHEDULE - ALUMINUM

FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
160SNA	1600 A	4-700 KCMIL AL - 4" C. (5 SETS)



B1 ELECTRICAL ONE-LINE
NO SCALE

TYPICAL PANEL NAMING CONVENTION:

AREA/WING LETTER (OPTIONAL):
A-X = AREAS/WINGS A, B, C, ETC. CEP = CENTRAL PLANT
FLOOR OR LEVEL NUMBER:
1-X = LEVELS 1, 2, 3, ETC. P = PENTHOUSE B = BASEMENT
BRANCH:
N = NORMAL
S = LIFE SAFETY C = CRITICAL Q = EQUIPMENT
E = EMERGENCY O = OPTIONAL STANDBY R = LEGALLY REQUIRED
VOLTAGE: H = 480Y/277V L = 208Y/120V
HIERARCHY OF PANELS: 1, 2, 3 ETC.
(SECTIONS A,B,C, ETC MAY OR MAY NOT BE NOTED)
B2CL3

ONE-LINE GENERAL NOTES:

(GENERAL NOTES SHALL APPLY TO ALL ONE-LINE SHEETS)

A. MECHANICAL EQUIPMENT NOT SHOWN ON ONE-LINE. REFER TO PANEL SCHEDULES FOR COMPLETE LIST OF CIRCUIT BREAKER SIZES AND QUANTITIES REQUIRED.

SHEET NOTES:

1. PROVIDE BONDING BETWEEN NORMAL AND CRITICAL POWER SERVING SAME PATIENT AREA.

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SHEET NAME
ONE-LINE DIAGRAM

SHEET NUMBER
E500

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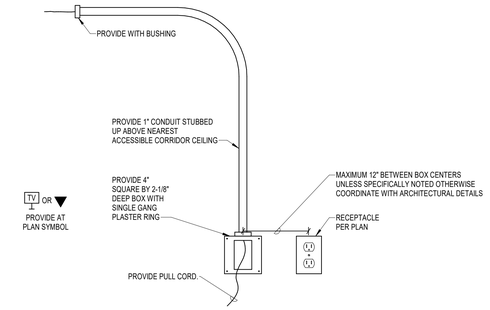
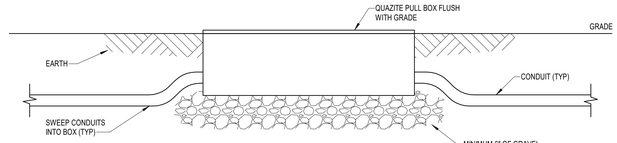
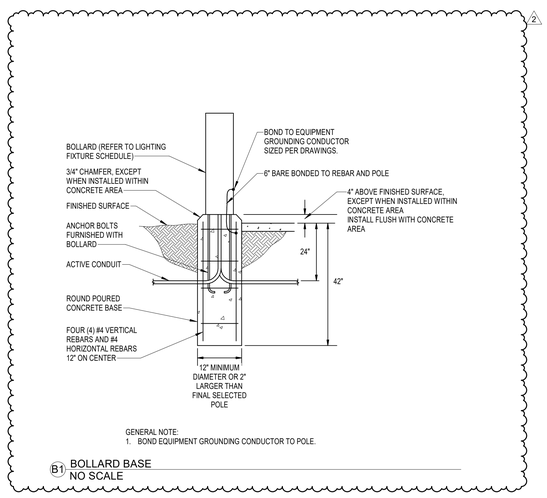


C1 COMMUNICATIONS OUTLET - STUB TO CORRIDOR
NO SCALE



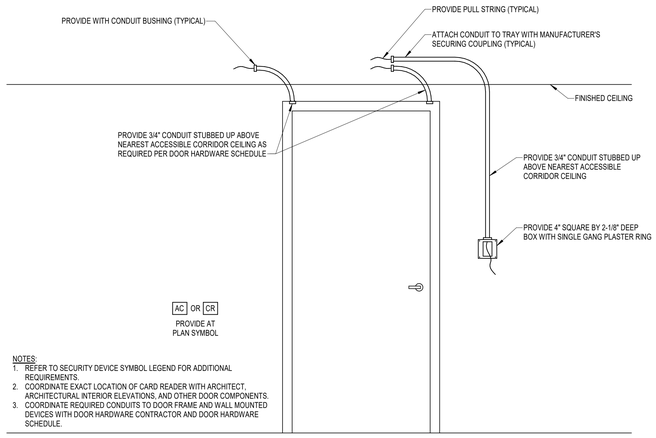
NOTES:
1. COMPLY WITH ANSI C2.
2. COMPLY WITH NFPA 70.
3. COMPLY TO QUAZITE TIER 22 LOAD RATINGS MIN. OR APPROVED EQUAL.
4. COVER SHALL BE MARKED, "COMMUNICATIONS" AND SECURED WITH 3/8" X 2" LAG TYPE BOLT TO BOX.
5. COLOR OF BOX SHALL BE GRAY.
6. DUCT ENTRANCE INTO PULL BOX SHALL BE SECURE AND FIXED INTO BOX WALL.
7. INSTALL PER NEC AND NESC REQUIREMENTS.
8. COMPLY WITH ANSI/SCTE 77-2002.

C3 COMMUNICATIONS UNDERGROUND PULL BOX
NO SCALE



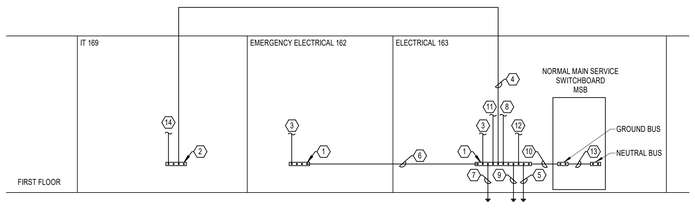
GENERAL NOTE:
1. BOND EQUIPMENT GROUNDING CONDUCTOR TO POLE.

B1 BOLLARD BASE
NO SCALE



NOTES:
1. REFER TO SECURITY DEVICE SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS.
2. COORDINATE EXACT LOCATION OF CARD READER WITH ARCHITECT, ARCHITECTURAL INTERIOR ELEVATIONS, AND OTHER DOOR COMPONENTS.
3. COORDINATE REQUIRED CONDUITS TO DOOR FRAME AND WALL MOUNTED DEVICES WITH DOOR HARDWARE CONTRACTOR AND DOOR HARDWARE SCHEDULE.

B3 ACCESS CONTROL ROUGH-IN
NO SCALE



A1 GROUNDING SCHEMATIC
NO SCALE

GROUNDING SCHEMATIC SHEET NOTES:

1. ELECTRICAL GROUND BAR. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
2. TELECOMMUNICATIONS GROUND BAR. PROVIDE EATON B-LINE MODEL # SBTMGB. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
3. BOND TO DRY-TYPE TRANSFORMERS ON ASSOCIATED FLOOR. REFER TO DRY-TYPE TRANSFORMER GROUNDING DETAIL FOR CONDUCTOR SIZES. REFER TO ONE-LINE DIAGRAM AND FLOORPLANS FOR TRANSFORMER SIZES AND LOCATIONS.
4. BOND TELECOMMUNICATIONS GROUNDING RISER TO ELECTRICAL GROUNDING RISER WITH #3/0 COPPER IN ONE (1) 1" CONDUIT. GROUNDING RISERS SHALL ONLY BE BONDED TOGETHER AT THIS LOCATION.
5. BOND TO GROUND RING WITH COPPER CONDUCTOR MATCHING GROUND RING CONDUCTOR SIZE.
6. BOND ELECTRICAL GROUND BARS WITH #3/0 COPPER IN ONE (1) 1" CONDUIT.
7. BOND TO GROUND ROD WITH #6 COPPER IN ONE (1) 3/4" CONDUIT. REFER TO SPECIFICATIONS FOR GROUND ROD REQUIREMENTS.
8. BOND TO WATER SERVICE ENTRANCE WITH #3/0 COPPER IN ONE (1) 1" CONDUIT. BOND SHALL BE WITHIN 5 FEET OF WATER SERVICE ENTRANCE TO BUILDING. PROVIDE BONDING JUMPER ACROSS WATER METER.
9. BOND TO UFER GROUND (CONCRETE-ENCASED GROUNDING ELECTRODE/BUILDING FOOTING) WITH #4 COPPER IN ONE (1) 3/4" CONDUIT. REFER TO SPECIFICATIONS FOR CONCRETE-ENCASED GROUNDING ELECTRODE REQUIREMENTS.
10. BOND TO NORMAL MAIN SERVICE SWITCHBOARD GROUND BUS WITH #3/0 COPPER IN ONE (1) 1" CONDUIT.
11. BOND TO BUILDING STEEL WITH #3/0 COPPER IN ONE (1) 1" CONDUIT.
12. BOND TO GENERATOR GROUND BUS WITH #3/0 COPPER IN ONE (1) 1" CONDUIT. PROVIDE #2/0 BONDING JUMPER BETWEEN GROUND BUS AND NEUTRAL BUS AT GENERATOR.
13. MAIN BONDING JUMPER. BOND GROUND BUS AND NEUTRAL BUS AT NORMAL SERVICE MAIN DISCONNECT WITH #3/0 COPPER.
14. BOND TO CABLE TRAY, TELECOM RACK, RACK MOUNTED EQUIPMENT, LOW VOLTAGE CABINETS, AND VOICE/DATA/CATV SERVICE DEMARCS WITH #6 COPPER IN ONE (1) 3/4" CONDUIT.

GROUNDING SCHEMATIC GENERAL NOTES:

A. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
B. ELECTRICAL CONNECTIONS SHALL BE FIRMLY BONDED AT ALL TERMINATIONS. REFER TO SPECIFICATIONS FOR ACCEPTABLE CONNECTION TYPES FOR GROUNDING SYSTEM COMPONENTS.
C. BOND TO ALL GROUNDING ELECTRODES PRESENT WITHIN BUILDING.

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ELECTRICAL DETAILS

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EQUIPMENT CONNECTION SCHEDULE

MARK	DESCRIPTION	ROOM NAME	ROOM #	HP	KW	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
AHU-OR	AIR HANDLING UNIT			0	0	146	151	175	480	3	3	121382	DDC, FA STOP	MANUFACTURER	VFD	(17) (175A) 3-#2/0 CU, #6 CU GND - 2"C.	1EQH1	2,4,6	17.1	Yes	
AHU-PACU	AIR HANDLING UNIT			0	0	29.1	33.6	60	480	3	3	24193	DDC, FA STOP	MANUFACTURER	INT	(6) (60A) 3-#4 CU, #10 CU GND - 1"C.	1EQH1	14,16,18	11.1	Yes	
AP-1	MED GAS ALARM PANEL	OR CHARGE + RAD TECH	150	0	0	0.8	20	20	120	1	1	100	INT	ELECTRICAL	HW	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1LSL1	15	5	Yes	
AP-2	MED GAS ALARM PANEL	NURSE STATION	133	0	0	0.8	20	20	120	1	1	100	INT	ELECTRICAL	HW	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1LSL1	17	5	Yes	
AP-3	MED GAS ALARM PANEL	NURSE STATION	127	0	0	0.8	20	20	120	1	1	100	INT	ELECTRICAL	HW	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1LSL1	19	5	Yes	
AP-4	MED GAS ALARM PANEL	PREP/PACK	154	0	0	0.8	20	20	120	1	1	100	INT	ELECTRICAL	HW	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1LSL1	21	5	Yes	
C-154	ELECTRIC HEATING COIL			0	5.5	6.6	8.3	15	480	3	3	5500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	30,32,34	5	No	
C-159	ELECTRIC HEATING COIL			0	2.5	3	3.8	15	480	3	3	2500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	36,38,40	5	No	
C-AHU-OR	ELECTRIC HEATING COIL			0	38	45.7	57.1	60	480	3	3	38000	DDC	MANUFACTURER	INT	(6) (60A) 3-#4 CU, #10 CU GND - 1"C.	1EQH1	8,10,12	12.2	Yes	
C-AHU-PACU-1	ELECTRIC HEATING COIL			0	15.5	18.6	23.3	25	480	3	3	15500	DDC	MANUFACTURER	INT	(3) (30A) 3-#10 CU, #10 CU GND - 3/4"C.	1EQH1	20,22,24	5	Yes	
C-AHU-PACU-2	ELECTRIC HEATING COIL			0	12.5	15	18.8	20	480	3	3	12500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1EQH1	26,28,30	5	Yes	
CC-PACU	AHU DX COIL			0	0	60.5	65.7	90	480	3	3	50240	DDC	MANUFACTURER	INT	(9) (90A) 3-#2 CU, #8 CU GND - 1-1/4"C.	MSB	7	11.1	No	
DI-1	DI WATER PUMP	DI WATER / BOILER / VACUUM PUMP / SPRINKLER	164	0	0	10	12.5	20	120	1	1	1200	INT	ELECTRICAL	NEMA 5-20	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1NL2	20	5	No	
EF-1	EXHAUST FAN			0.25	0	5.8	7.3	15	120	1	1	696	DDC	MANUFACTURER	INT	(1M1) (1/6 - 1 HP 120V) 2-#12 CU, #12 CU GND - 3/4"C.	1NL2	28	5	No	
EF-2	EXHAUST FAN			0.5	0	9.8	12.3	25	120	1	1	1176	DDC	MANUFACTURER	INT	(1M1) (1/6 - 1 HP 120V) 2-#12 CU, #12 CU GND - 3/4"C.	1EQL1	5	5	Yes	
EF-3	EXHAUST FAN			0.5	0	9.8	12.3	25	120	1	1	1176	DDC	MANUFACTURER	INT	(1M1) (1/6 - 1 HP 120V) 2-#12 CU, #12 CU GND - 3/4"C.	1NL2	29	5	No	
EF-4	EXHAUST FAN			0.5	0	9.8	12.3	25	120	1	1	1176	DDC	MANUFACTURER	INT	(1M1) (1/6 - 1 HP 120V) 2-#12 CU, #12 CU GND - 3/4"C.	1EQL1	13	5	Yes	
EH-1	ELECTRIC HUMIDIFIER	DI WATER / BOILER / VACUUM PUMP / SPRINKLER	164	0	30	43.3	54.1	60	480	3	3	30000	DDC	ELECTRICAL	NF 60/3	(6) (60A) 3-#4 CU, #10 CU GND - 1"C.	1NH1	35,37,39	15.1	No	
IAC-1	COMPRESSOR - MEDICAL AIR	DI WATER / BOILER / VACUUM PUMP / SPRINKLER	164	10	0	15.2	17.1	30	480	3	3	12637	INT	ELECTRICAL	NF 30/3	(3) (30A) 3-#10 CU, #10 CU GND - 3/4"C.	1EQH1	13,15,17	5	Yes	
MA-1	MED GAS MANIFOLD - MEDICAL AIR			0	0	0.8	1	20	120	1	1	100	INT	ELECTRICAL	HW	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1LSL1	23	5	Yes	
MAP-1	MED GAS MASTER ALARM PANEL	REGISTRATION	103	0	0	0.8	1	20	120	1	1	100	N/A	ELECTRICAL	HW	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1LSL1	27	5	Yes	
MAP-2	MED GAS MASTER ALARM PANEL	SUPERVISOR OFFICE	170	0	0	0.8	1	20	120	1	1	100	N/A	ELECTRICAL	HW	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1LSL1	8	5	Yes	
MVP-1	PUMP - MEDICAL VACUUM	DI WATER / BOILER / VACUUM PUMP / SPRINKLER	164	10	0	13.7	15.4	30	480	3	3	11390	INT	ELECTRICAL	NF 30/3	(3) (30A) 3-#10 CU, #10 CU GND - 3/4"C.	1EQH1	7,9,11	5	Yes	
O2-1	MED GAS MANIFOLD - OXYGEN			0	0	0.8	1	20	120	1	1	100	INT	ELECTRICAL	HW	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1LSL1	25	5	Yes	
P-160	CONDENSATE PUMP	IT	169	0.033	0	1.5	1.9	20	120	1	1	180	INT	ELECTRICAL	NEMA 5-20	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1EQL1	4	5	Yes	
PS-1	PUMP STATION			3	0	10.6	13.3	30	208	3	3	3819	INT	ELECTRICAL	MAG	(3) (30A) 3-#10 CU, #10 CU GND - 3/4"C.	1EQL1	15,17,19	5	Yes	
RCP-1	PUMP - RECIRCULATING PUMP	DI WATER / BOILER / VACUUM PUMP / SPRINKLER	164	0.3	0	1.8	2.3	15	120	1	1	197	DDC	MECHANICAL	NF 20/1	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1EQL1	2	5	Yes	
SSAH-151	SPLIT SYSTEM AIR HANDLER	EMERGENCY ELECTRICAL	162	0	0	0.3	1	15	208	1	2	30	INT	MANUFACTURER	INT	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1EQL1	6,8	5	Yes	1
SSAH-152	SPLIT SYSTEM AIR HANDLER	ELECTRICAL	163	0	0	0.3	1	15	208	1	2	30	INT	MANUFACTURER	INT	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1NL2	24,26	5	No	1
SSAH-153	SPLIT SYSTEM AIR HANDLER	DI WATER / BOILER / VACUUM PUMP / SPRINKLER	164	0	0	0.3	1	15	208	1	2	30	INT	MANUFACTURER	INT	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1EQL1	14,16	5	Yes	1
SSAH-160	SPLIT SYSTEM AIR HANDLER	IT	169	0	0	0.3	1	15	208	1	2	30	INT	MANUFACTURER	INT	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1EQL1	10,12	5	Yes	1
SSCU-151	SPLIT SYSTEM CONDENSING UNIT			0	0	7.5	11	15	208	1	2	1560	REMARK 1	ELECTRICAL	NF 30/2	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1EQL1	6,8	5	Yes	1
SSCU-152	SPLIT SYSTEM CONDENSING UNIT			0	0	7.5	11	15	208	1	2	1560	REMARK 1	ELECTRICAL	NF 30/2	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1NL2	24,26	5	No	1
SSCU-153	SPLIT SYSTEM CONDENSING UNIT			0	0	7.5	11	15	208	1	2	1560	REMARK 1	ELECTRICAL	NF 30/2	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1EQL1	14,16	5	Yes	1
SSCU-160	SPLIT SYSTEM CONDENSING UNIT			0	0	7.5	11	15	208	1	2	1560	REMARK 1	ELECTRICAL	NF 30/2	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1EQL1	10,12	5	Yes	1
VAV-OR-1	VAV BOX - ELECTRIC HEAT	CORRIDOR	153	0	14	16.8	21	25	480	3	3	14000	DDC	MANUFACTURER	INT	(3) (30A) 3-#10 CU, #10 CU GND - 3/4"C.	1NH1	2,4,6	5	No	2
VAV-OR-2	VAV BOX - ELECTRIC HEAT	CORRIDOR	145	0	14	16.8	21	25	480	3	3	14000	DDC	MANUFACTURER	INT	(3) (30A) 3-#10 CU, #10 CU GND - 3/4"C.	1NH1	8,10,12	5	No	2
VAV-OR-3	VAV BOX - ELECTRIC HEAT	CORRIDOR	153	0	14	16.8	21	25	480	3	3	14000	DDC	MANUFACTURER	INT	(3) (30A) 3-#10 CU, #10 CU GND - 3/4"C.	1NH1	14,16,18	5	No	2
VAV-OR-4	VAV BOX - ELECTRIC HEAT	STRETCHER / SCRUB ALCOVE	143	0	14	16.8	21	25	480	3	3	14000	DDC	MANUFACTURER	INT	(3) (30A) 3-#10 CU, #10 CU GND - 3/4"C.	1NH1	20,22,24	5	No	2
VAV-OR-6	VAV BOX - ELECTRIC HEAT	CORRIDOR	153	0	6	21.1	27.1	30	277	1	1	6000	DDC	MANUFACTURER	INT	(3) (30A) 3-#10 CU, #10 CU GND - 3/4"C.	1NH1	26	5	No	2
VAV-OR-7	VAV BOX - ELECTRIC HEAT	CORRIDOR	153	0	2.5	9	11.3	15	277	1	1	2500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	28	5	No	2
VAV-PACU-1	VAV BOX - ELECTRIC HEAT	CORRIDOR	102	0	2.5	9	11.3	15	277	1	1	2500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	41	5	No	2
VAV-PACU-2	VAV BOX - ELECTRIC HEAT	NURSE STATION	127	0	2.5	9	11.3	15	277	1	1	2500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	43	5	No	2
VAV-PACU-3	VAV BOX - ELECTRIC HEAT	PRE / POST 6	110	0	2.5	9	11.3	15	277	1	1	2500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	45	5	No	2
VAV-PACU-4	VAV BOX - ELECTRIC HEAT	CORRIDOR	102	0	4	14.4	18.1	20	277	1	1	4000	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	47	5	No	2
VAV-PACU-5	VAV BOX - ELECTRIC HEAT	CORRIDOR	102	0	2	7.2	9	15	277	1	1	2000	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	49	5	No	2
VAV-PACU-6	VAV BOX - ELECTRIC HEAT	CORRIDOR	115	0	1.5	5.4	6.8	15	277	1	1	1500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	42	5	No	2
VAV-PACU-7	VAV BOX - ELECTRIC HEAT	ANESTHESIA OFFICE	116	0	2.5	9	11.3	15	277	1	1	2500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	51	5	No	2
VAV-PACU-8	VAV BOX - ELECTRIC HEAT	PACU 3	118	0	1	3.6	4.5	15	277	1	1	1000	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	44	5	No	2
VAV-PACU-9	VAV BOX - ELECTRIC HEAT	CORRIDOR	125	0	0.5	1.8	2.3	15	277	1	1	500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	53	5	No	2
VAV-PACU-10	VAV BOX - ELECTRIC HEAT	WAITING (35)	101	0	0.5	1.8	2.3	15	277	1	1	500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	46	5	No	2
VAV-PACU-11	VAV BOX - ELECTRIC HEAT	WAITING (35)	101	0	1	3.6	4.5	15	277	1	1	1000	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	55	5	No	2
VAV-PACU-12	VAV BOX - ELECTRIC HEAT	WAITING (35)	101	0	5	18.1	22.6	25	277	1	1	5000	DDC	MANUFACTURER	INT	(3) (30A) 3-#10 CU, #10 CU GND - 3/4"C.	1NH1	48	5	No	2
VAV-PACU-13	VAV BOX - ELECTRIC HEAT	SUPERVISOR OFFICE	170	0	0.5	1.8	2.3	15	277	1	1	500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	57	5	No	2
VAV-PACU-14	VAV BOX - ELECTRIC HEAT	STAFF LOUNGE	171	0	2	7.2	9	15	277	1	1	2000	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	50	5	No	2
VAV-PACU-15	VAV BOX - ELECTRIC HEAT	CORRIDOR	165	0	1	3.6	4.5	15	277	1	1	1000	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	59	5	No	2
VAV-PACU-16	VAV BOX - ELECTRIC HEAT	FEMALE LOCKERS	146	0	3	10.8	13.5	15	277	1	1	3000	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	52	5	No	2
VAV-PACU-17	VAV BOX - ELECTRIC HEAT	MALE LOCKERS	148	0	0.5	1.8	2.3	15	277	1	1	500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	61	5	No	2
VAV-PACU-18	VAV BOX - ELECTRIC HEAT	REGISTRATION	103	0	2.5	9	11.3	15	277	1	1	2500	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	54	5	No	2
VAV-PACU-19	VAV BOX - ELECTRIC HEAT	CORRIDOR	160	0	1	3.6	4.5	15	277	1	1	1000	DDC	MANUFACTURER	INT	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	1NH1	63	5	No	2
WH-1	WATER HEATER - ELECTRIC	DI WATER / BOILER / VACUUM PUMP / SPRINKLER	164	0	36	43.3	54.1	60	480	3	3	36000	DDC	ELECTRICAL	F 60/3	(6) (60A) 3-#4 CU, #10 CU GND - 1"C.	1EQH1	19,21,23	10.9	Yes	
WS-1	WATER SOFTENER	DI WATER / BOILER / VACUUM PUMP / SPRINKLER	164	0	0	1	1.3	20	120	1	1	120	INT	ELECTRICAL	NEMA 5-20	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	1NL2	27	5	No	

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)
1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURER'S REQUIREMENTS.
2. VAV CONTROLS AND HEATING COILS ARE PROVIDED WITH SEPARATE CONNECTIONS. REFER TO PANEL SCHEDULE 1EQL1 FOR VAV CONTROLS CIRCUITS.

GENERAL NOTES: (EQUIPMENT CONNECTION SCHEDULE)
A. EQUIPMENT LISTED MAY NOT BE UNIQUE, VERIFY QUANTITY WITH FLOOR PLANS. WHERE LOCATIONS ARE NOT INDICATED ON ELECTRICAL FLOOR PLANS, REFER TO MECHANICAL SHEETS. REFER TO DEFINITIONS BELOW FOR CLARIFICATIONS OF CONNECTION REQUIREMENTS.
B. PROVIDE WIRING AND EQUIPMENT CONNECTIONS FOR INTERNAL EQUIPMENT COMPONENTS AS REQUIRED. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.
C. ITEMS NOTED AS "NA" ARE NOT APPLICABLE TO THE CONNECTION.
D. "CONTROL TYPE" - PROVIDE CONTROL AND CONNECTIONS:
   - "INT" = CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).
   - "CONT" = EQUIPMENT OPERATES CONTINUOUSLY (NO CONTROLS). FOR MOTORS WITHOUT INTERNAL OVERLOAD PROTECTION, PROVIDE SEPARATE OVERLOAD PROTECTION. OVERLOAD PROTECTION MAY BE PROVIDED AS PART OF A MANUAL MOTOR STARTER.
   - "DDC" = CONTROL SIGNAL FROM TEMPERATURE CONTROL SYSTEM PROVIDED BY MECHANICAL CONTRACTOR OR TEMPERATURE CONTROLS CONTRACTOR.
   - "TIME SW" = CONTROL SIGNAL FROM TIME SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
     - TIME SWITCH SHALL BE 7-DAY DIGITAL TYPE WITH AUTOMATIC DAYLIGHT SAVINGS ADJUSTMENTS AND BATTERY BACKUP. LOCATE TIMESWITCH IN NEAREST MECHANICAL OR ELECTRICAL UTILITY ROOM. LABEL TIME SWITCH. COORDINATE TIME SCHEDULE WITH OWNER AND MECHANICAL ENGINEER.
   - "WALL SW" = CONTROL SIGNAL FROM WALL SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
     - COORDINATE LOCATION OF WALL SWITCH WITH OWNER. LABEL WALL SWITCH.
   - "FA STOP" = FANS WITH CFM OF 2000 OR GREATER AND FANS SERVING DUCTS CONTAINING SMOKE DAMPERS.
     - PROVIDE FIRE ALARM SYSTEM DUCT SMOKE DETECTORS AT RETURN-SIDE AND SUPPLY-SIDE OF FAN/UNIT. PROVIDE MULTIPLE DETECTORS IF REQUIRED TO ACCOMMODATE MAIN DUCT TAKE-OFFS WHERE A SINGLE DETECTOR CANNOT BE INSTALLED TO CAPTURE ALL AIRFLOW. FIRE ALARM SYSTEM SHALL SHUTDOWN FAN UPON DETECTION OF SMOKE IN DUCT OR ROOMS SERVED FROM THIS EQUIPMENT. PROVIDE WITH INDIVIDUAL FIRE ALARM SYSTEM ADDRESSABLE CONTROL MODULE AT MOTOR CONTROLLER/STARTER AND CONNECT TO SHUTDOWN FAN.
   - "WF STOP" = HIGH VOLUME LOW SPEED (HVLS) FANS SHUT DOWN HVLS FAN UPON WATERFLOW ALARM. PROVIDE WITH INDIVIDUAL FIRE ALARM SYSTEM ADDRESSABLE CONTROL MODULE AT MOTOR AND CONNECT TO SHUT DOWN FAN.
   - "FA START" = FANS USED FOR SMOKE EVACUATION OR PRESSURIZATION.
     - FIRE ALARM SYSTEM SHALL START FAN UPON DETECTION OF SMOKE IN DUCT OR ROOMS SERVED FROM THIS EQUIPMENT. PROVIDE WITH INDIVIDUAL FIRE ALARM SYSTEM ADDRESSABLE CONTROL MODULE AT MOTOR CONTROLLER/STARTER AND CONNECT TO START FAN.
   - "DATA" = PROVIDE WITH DATA CONNECTION FROM NEAREST DATA NETWORK COMMUNICATIONS ROOM.
   - "CONDUIT" = PROVIDE EMPTY 3/4" CONTROLS CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT TO ACCOMMODATE CONTROL CABLING BY MECHANICAL OR TEMPERATURE CONTROLS CONTRACTOR.
   - "EPO" = PROVIDE EMERGENCY POWER OFF. REFER TO FLOOR PLANS FOR DEVICE LOCATION.
E. "DISCONNECT BY" :
   - "MECHANICAL" = DISCONNECT IS FURNISHED BY MECHANICAL CONTRACTOR OR PROVIDED WITH MECHANICAL EQUIPMENT.
     - ELECTRICAL CONTRACTOR SHALL PROVIDE MOUNTING AND ADDITIONAL CONNECTIONS REQUIRED FOR LOOSE DISCONNECTS FURNISHED BY THE MECHANICAL CONTRACTOR.
   - "ELECTRICAL" = DISCONNECT IS FURNISHED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT FURNISHED BY MECHANICAL CONTRACTOR.
   - "MANUFACTURER" = DISCONNECT IS FURNISHED BY EQUIPMENT MANUFACTURER. ELECTRICAL CONTRACTOR SHALL PROVIDE MOUNTING AND ADDITIONAL CONNECTIONS REQUIRED FOR LOOSE DISCONNECTS FURNISHED BY EQUIPMENT MANUFACTURER.
F. "DISCONNECT TYPE" - PROVIDE DISCONNECT/RECEPTACLE AT EQUIPMENT LOCATION AND ASSOCIATED CONNECTION TO EQUIPMENT AND BRANCH CIRCUIT:
   - "NEMA-___" = DUPLEX (TYP) RECEPTACLE TO ACCOMMODATE CORD AND PLUG CONNECTION (CORD AND PLUG FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE)
   - "REC/SW" = PROVIDE 20A 120V RECEPTACLE OR 20A TOGGLE SWITCH DISCONNECT.
     - COORDINATE REQUIRED SELECTION WITH EQUIPMENT.
   - "NF" = NON-FUSED DISCONNECT. SIZE AND POLE QUANTITY AS INDICATED. 20/1 AND SMALLER SHALL BE TOGGLE SWITCH DISCONNECT.
   - "F" = FUSED DISCONNECT. SIZE AND POLE QUANTITY AS INDICATED.
     - FUSE PER MANUFACTURER'S RECOMMENDATIONS.
   - "FUSTAT" = SWITCH AND FUSTAT. FUSE SIZE PER EQUIPMENT MANUFACTURER.
     - LOCATE SWITCH IN CONCEALED ACCESSIBLE LOCATION.
   - "ENCL CB" = ENCLOSED CIRCUIT BREAKER DISCONNECT.
     - SIZE, POLE QUANTITY, AND FLUSH/SURFACE MOUNTING AS INDICATED.
   - "ENCL MCSW" = ENCLOSED MOLDED CASE SWITCH DISCONNECT.
     - SIZE, POLE QUANTITY, AND FLUSH/SURFACE MOUNTING AS INDICATED.
   - "SHUNT ENCL CB" = SHUNT TRIP ENCLOSED CIRCUIT BREAKER DISCONNECT.
     - SIZE, POLE QUANTITY, AND FLUSH/SURFACE MOUNTING AS INDICATED. PROVIDE WITH INTEGRAL 120V CONTROL TRANSFORMER SERVED FROM LINE SOURCE WITH PRIMARY AND SECONDARY FUSING. COORDINATE ENCLOSURE AND COVER SIZE TO ACCOMMODATE TRANSFORMER. PROVIDE WITH EQUIPMENT GROUND BAR AND SEPARATE INSULATED ISOLATED GROUND BAR. WHERE NEUTRAL CONDUCTOR IS UTILIZED. PROVIDE SOLID NEUTRAL BAR. CONNECT SHUNT TRIP VOLTAGE SOURCE AND ACTUATOR TO ASSOCIATED EMERGENCY POWER (EPO) SWITCHES. PROVIDE EPO AND COORDINATE LOCATION.
   - "LOCK CB" = CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION, LOCATED IN THE SOURCE ELECTRICAL PANEL. THE PROVISIONS FOR LOCKING MUST REMAIN IN PLACE WITH OR WITHOUT THE LOCK INSTALLED.
   - "MAG" = COMBINATION MAGNETIC MOTOR STARTER WITH DISCONNECT (COORDINATE COIL VOLTAGE WITH CONTROL SOURCE). LOCATE COMBINATION MAGNETIC MOTOR STARTER TO SERVE AS THE MOTOR DISCONNECT. WHERE STARTER SERVES OUTDOOR EQUIPMENT, LOCATE STARTER IN THE SOURCE ELECTRICAL ROOM.
   - "MAN" = COMBINATION MANUAL MOTOR STARTER WITH DISCONNECT. LOCATE COMBINATION MANUAL MOTOR STARTER TO SERVE AS THE MOTOR DISCONNECT. WHERE STARTER SERVES OUTDOOR EQUIPMENT, LOCATE STARTER IN THE SOURCE ELECTRICAL ROOM.
   - "VFD" = VARIABLE FREQUENCY DRIVE CONTROLLER. LOCATE VARIABLE FREQUENCY DRIVE CONTROL TO SERVE AS THE MOTOR DISCONNECT.
   - "INT" = DISCONNECT IS MANUFACTURED INTEGRAL TO THE EQUIPMENT.
   - "HW" = HARDWIRE. DISCONNECT NOT REQUIRED.
   - LOCATE DISCONNECT ADJACENT TO EQUIPMENT PER NEC - PROVIDE WITH STRUT MOUNTING AS REQUIRED.
   - LOCATE RECEPTACLE OR JUNCTION BOX TO DIRECTLY SERVE EQUIPMENT.
     - COORDINATE EXACT LOCATION WITH ARCHITECT, ARCHITECTURAL DETAILS, AND EQUIPMENT MANUFACTURER'S REQUIREMENTS.
   - WHERE DISCONNECT SERVES OUTDOOR EQUIPMENT, PROVIDE AS NEMA-3R.
   - PROVIDE DISCONNECT WITH EQUIPMENT GROUND KIT.
   - WHERE FEEDER INDICATED UTILIZES A NEUTRAL, PROVIDE DISCONNECT WITH SOLID NEUTRAL KIT.
   - WHERE FEEDER INDICATED UTILIZES AN ISOLATED GROUND, PROVIDE DISCONNECT WITH ADDITIONAL INSULATED GROUND KIT.
   - DISCONNECTS NOT SHOWN AS "F" OR "NF" SHALL BE NON-FUSED.
   - DISCONNECTS OF MOTORS SERVED FROM A VFD SHALL CONTAIN AUXILIARY CONTACTS CONNECTED TO THE VFD TO DISABLE VFD UPON DISCONNECTION.
   - WHERE STARTERS OR VFD'S CONTAIN INTEGRAL DISCONNECTS AND ARE LOCATED PER NEC TO SATISFY AS THE EQUIPMENT DISCONNECT, AN ADDITIONAL EQUIPMENT DISCONNECT IS NOT REQUIRED.
G. "FEEDER":
   - PROVIDE CONDUCTORS AND RACEWAY AS INDICATED. TYPICAL FORMAT IS: (FEEDER TAG) (NOMINAL SIZE) CONDUCTORS AND RACEWAY REQUIRED.
H. "GEN" - EQUIPMENT IS SERVED FROM A SOURCE PANEL PROVIDED WITH GENERATOR BACK-UP.
I. "SCCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION. EQUIPMENT INDICATED WITH 5 KA MAY BE PROVIDED WITH 5 KA SCCR

MEDICAL EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MOUNTING HEIGHT	VOLTS	PHASE	MOCP	LOAD VA	DISCONNECT (NOTE 1)	FEEDER	GEN	REMARKS
01	SINK	16"	120 V	1	20	360 VA	NEMA 5-20	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	No	
02	WASH CYCLE	18"	208 V	3	20	3000 VA	NF 30/3	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	No	
03A	WASHER/DISINFECTOR	102"	480 V	3	50	28682 VA	NF 60/3	(5) (50A) 3-#6 CU, #10 CU GND - 1"C.	No	3
03B	WASHER/DISINFECTOR	102"	480 V	3	50	28682 VA	NF 60/3	(5) (50A) 3-#6 CU, #10 CU GND - 1"C.	No	3
05	PASS THROUGH WINDOW		120 V	1	20	120 VA	SW 20/1	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	No	
06	STERILIZER - LOW TEMP	18"	208 V	3	20	5764 VA	NEMA L15-20	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	No	
07	PACK/ PREP WORKSTATION		120 V	1	20	720 VA	HW	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	No	
09A.1	STERILIZER	96"	480 V	3	20	5819 VA	NF 30/3	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	No	
09A.2	STERILIZER - STEAM GENERATOR	96"	480 V	3	80	47389 VA	80A ENCL CB	(8) (80A) 3-#3 CU, #8 CU GND - 1-1/4"C.	No	2
09A.3	STERILIZER - STEAM GENERATOR CONTROL	96"	120 V	1	20	1200 VA	NF 30/3	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	No	
09B.1	STERILIZER	96"	480 V	3	20	5819 VA	NF 30/3	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	No	
09B.2	STERILIZER - STEAM GENERATOR	96"	480 V	3	80	47389 VA	80A ENCL CB	(8) (80A) 3-#3 CU, #8 CU GND - 1-1/4"C.	No	2
09B.3	STERILIZER - STEAM GENERATOR CONTROL	96"	120 V	1	20	1200 VA	NF 30/3	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	No	
10.1	STERILIZER	96"	480 V	3	20	5819 VA	NF 30/3	(2) (20A) 3-#12 CU, #12 CU GND - 3/4"C.	No	
10.2	STERILIZER - STEAM GENERATOR	96"	480 V	3	80	47389 VA	80A ENCL CB	(8) (80A) 3-#3 CU, #8 CU GND - 1-1/4"C.	No	2
10.3	STERILIZER - STEAM GENERATOR CONTROL	96"	120 V	1	20	1200 VA	NF 30/3	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	No	
13	CHEMISTRY DELIVERY SYSTEM	48"	120 V	1	20	240 VA	NEMA 5-20 (QUAD)	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"C.	No	3

REMARKS: (MEDICAL EQUIPMENT CONNECTION SCHEDULE)
1. PRIOR TO INSTALLATION, COORDINATE EXACT DISCONNECT TYPE AND ELECTRICAL CONNECTION WITH FINAL MEDICAL EQUIPMENT SELECTIONS.
2. PROVIDE ENCLOSED CIRCUIT BREAKER WITH NECESSARY SHUNTING PROVISIONS IN ORDER TO SHUNT POWER TO STEAM GENERATOR FROM EPO SWITCH. REFER TO SYMBOL LEGEND AND FLOOR PLANS FOR REQUIREMENTS.
3. PROVIDE TWO (2) 3" PVC CONDUITS BETWEEN CHEMISTRY DELIVERY SYSTEM AND EACH WASHER/DISINFECTOR FOR CHEMICAL TUBE ROUTING. PROVIDE WITH PULL CORDS. REFER TO STERIS DRAWINGS FOR FINAL QUANTITIES AND ADDITIONAL REQUIREMENTS.

GENERAL NOTES: (MEDICAL EQUIPMENT CONNECTION SCHEDULE)
A. EQUIPMENT LISTED MAY NOT BE UNIQUE, VERIFY QUANTITY WITH FLOOR PLANS. REFER TO DEFINITIONS BELOW FOR CLARIFICATIONS OF CONNECTION REQUIREMENTS.
B. ITEMS NOTED AS "NA" ARE NOT APPLICABLE TO THE CONNECTION.
C. "DISCONNECT TYPE" - PROVIDE DISCONNECT/RECEPTACLE AT EQUIPMENT LOCATION AND ASSOCIATED CONNECTION TO EQUIPMENT AND BRANCH CIRCUIT:
   - "NEMA-___" = DUPLEX (TYP) RECEPTACLE TO ACCOMMODATE CORD AND PLUG CONNECTION (CORD AND PLUG FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE)
   - "REC/SW" = PROVIDE 20A 120V RECEPTACLE OR 20A TOGGLE SWITCH DISCONNECT.
     - COORDINATE REQUIRED SELECTION WITH EQUIPMENT.
   - "NF" = NON-FUSED DISCONNECT. SIZE AND POLE QUANTITY AS INDICATED. 20/1 AND SMALLER SHALL BE TOGGLE SWITCH DISCONNECT.
   - "F" = FUSED DISCONNECT. SIZE AND POLE QUANTITY AS INDICATED.
     - FUSE PER MANUFACTURER'S RECOMMENDATIONS.
   - "ENCL CB" = ENCLOSED CIRCUIT BREAKER DISCONNECT.
     - SIZE, POLE QUANTITY, AND FLUSH/SURFACE MOUNTING AS INDICATED.
   - "SHUNT ENCL CB" = SHUNT TRIP ENCLOSED CIRCUIT BREAKER DISCONNECT.
     - SIZE, POLE QUANTITY, AND FLUSH/SURFACE MOUNTING AS INDICATED. PROVIDE WITH INTEGRAL 120V CONTROL TRANSFORMER SERVED FROM LINE SOURCE WITH PRIMARY AND SECONDARY FUSING. COORDINATE ENCLOSURE AND COVER SIZE TO ACCOMMODATE TRANSFORMER. PROVIDE WITH EQUIPMENT GROUND BAR AND SEPARATE INSULATED ISOLATED GROUND BAR. WHERE NEUTRAL CONDUCTOR IS UTILIZED. PROVIDE SOLID NEUTRAL BAR. CONNECT SHUNT TRIP VOLTAGE SOURCE AND ACTUATOR TO ASSOCIATED EMERGENCY POWER (EPO) SWITCHES. PROVIDE EPO AND COORDINATE LOCATION.
   - "LOCK CB" = CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION, LOCATED IN THE SOURCE ELECTRICAL PANEL. THE PROVISIONS FOR LOCKING MUST REMAIN IN PLACE WITH OR WITHOUT THE LOCK INSTALLED.
   - "INT" = DISCONNECT IS MANUFACTURED INTEGRAL TO THE EQUIPMENT.
   - "HW" = HARDWIRE. DISCONNECT NOT REQUIRED.
   - LOCATE DISCONNECT ADJACENT TO EQUIPMENT PER NEC - PROVIDE WITH STRUT MOUNTING AS REQUIRED.
   - LOCATE RECEPTACLE OR JUNCTION BOX TO DIRECTLY SERVE EQUIPMENT.
     - COORDINATE EXACT LOCATION WITH ARCHITECT, ARCHITECTURAL DETAILS, AND EQUIPMENT MANUFACTURER'S REQUIREMENTS.
   - WHERE DISCONNECT SERVES OUTDOOR EQUIPMENT, PROVIDE AS NEMA-3R.
   - PROVIDE DISCONNECT WITH EQUIPMENT GROUND KIT.
   - WHERE FEEDER INDICATED UTILIZES A NEUTRAL, PROVIDE DISCONNECT WITH SOLID NEUTRAL KIT.
   - WHERE FEEDER INDICATED UTILIZES AN ISOLATED GROUND, PROVIDE DISCONNECT WITH ADDITIONAL INSULATED GROUND KIT.
   - DISCONNECTS NOT SHOWN AS "F" OR "NF" SHALL BE NON-FUSED.
D. "FEEDER":
   - PROVIDE CONDUCTORS AND RACEWAY AS INDICATED. TYPICAL FORMAT IS: (FEEDER TAG) (NOMINAL SIZE) CONDUCTORS AND RACEWAY REQUIRED.
E. "GEN" - EQUIPMENT IS SERVED FROM A SOURCE PANEL PROVIDED WITH GENERATOR BACK-UP.

LUMINAIRE SCHEDULE

MARK	DESCRIPTION	SUBS	MANUFACTURER	CATALOG # (NOTE A)	NOMINAL LUMENS	CCT (K)	MIN. CRI	VOLTAGE	INPUT WATTS	MOUNTING	REMARKS
B1	2x2 BACKLIT PANEL - 2000 LM	Y	DAY-BRITE	2-FPZ-20L-940-2-DS-UNV-DIM	1,900	4000	90	120 V	16	CEILING RECESSED	
B2	2x2 BACKLIT PANEL - 3800 LM	Y	DAY-BRITE	2-FPZ-38L-940-2-DS-UNV-DIM	3,400	4000	90	120 V	36	CEILING RECESSED	
B3	2x4 BACKLIT PANEL - 4800 LM	Y	DAY-BRITE	2-FPZ-48L-940-4-DS-UNV-DIM	4,560	4000	90	120 V	37	CEILING RECESSED	
B4	2x4 BACKLIT PANEL - 6000 LM	Y	DAY-BRITE	2-FPZ-60L-940-4-DS-UNV-DIM	5,700	4000	90	120 V	47	CEILING RECESSED	
B5	2x4 BACKLIT PANEL - 7400 LM	Y	DAY-BRITE	2-FPZ-74L-940-4-DS-UNV-DIM	6,600	4000	90	120 V	58	CEILING RECESSED	
D2	4" DOWNLIGHT - 1000 LM	Y	INTENSE	SD4DR-L1-409-D101-27-FL IC430-HZ-SF	900	4000	90	120 V	11	CEILING RECESSED	
D3	6" OPEN DOWNLIGHT - 1500 LM	Y	INTENSE	SD6DR-L2-409-D101-27-FL IC630-HZ-SF	1,350	4000	90	120 V	15	CEILING RECESSED	
D4	6" WET LOCATION DOWNLIGHT - 1800 LM	Y	INTENSE	SD6DR-L3-409-D101-27-FL IC632-HZ-SF-CR	1,610	4000	90	120 V	20	CEILING RECESSED	
D5	4.5" SURGICAL DOWNLIGHT - 2000 LM	P	HE WILLIAMS	HM4DR-TL-L20/940-DIM1-UNV-L-W-OF-WH-AD-N	1,650	4000	90	120 V	27	CEILING RECESSED	
H1	2x4 SURGICAL TROFFER	P	L.C. DOANE	HRA-24-6W155-40-90-C-W-VAR-DM-122-AH	11,460	4000	90	120 V	125	CEILING RECESSED	
K1	4' LENSED STRIP	Y	DAY-BRITE	FSX-4-40L-840-UN	3,950	4000	80	120 V	32	CEILING SUSPENDED	3
SR1	2" LINEAR - WALLWASH - 4'	Y	FINELITE	HP-2-R-WW-D-4'-V-940-K-SW-277-SC-FC-10%	1,180	4000	90	120 V	20	CEILING RECESSED	4
SR3	2" LINEAR - DIFFUSE - 4'	Y	FINELITE	HP-2-R-D-4'-B-940-F-96LG-277-SC-FC-10%	1,330	4000	90	120 V	20	CEILING RECESSED	4
V1	2' VANITY LIGHT	P	SAL (SCOTT)	S3720-L16-40K-**	1,160	4000	90	120 V	16	WALL SURFACE	2
W1	EXTERIOR WALL SCONCE	Y	GARDCO	PWS-48L-300-NW-G2-3-UNV-DD-**	6,300	4000	70	120 V	47	WALL SURFACE	2
X1	EDGE-LIT EXIT - SINGLE FACE - CEILING	Y	BEGHELLI	OL2-HT-LR-1-M-CR	--	RED	--	120 V	1	SURFACE/RECESSED	1
X2	EDGE-LIT EXIT - DUAL FACE - CEILING	Y	BEGHELLI	OL2-HT-LR-2-3-CR	--	RED	--	120 V	1	SURFACE/RECESSED	1
X3	EDGE-LITE EXIT - SINGLE FACE - WALL	Y	BEGHELLI	OL2-HT-LR-1-M-WS	--	RED	--	120 V	1	WALL SURFACE	1
Y1	EGRESS BOLLARD - TYPE 3	Y	GARDCO	PBL-42-14L-450-NW-G2-3-UNV-DD-**	2,410	4000	70	120 V	22	ON-GRADE	5

REMARKS: (LUMINAIRE SCHEDULE)
1. EXIT SIGNS - REFER TO ELECTRICAL PLANS FOR DIRECTION INDICATORS AND MOUNTING TYPE.
2. WALL MOUNTING - COORDINATE EXACT LOCATION WITH ARCHITECT AND ARCHITECTURAL DETAILS. COORDINATE FRAMING AND BOX SUPPORTS PRIOR TO ROUGH-IN FOR EXACT PLACEMENT OF BOX TO ACHIEVE CENTERING AND ALIGNMENT WITH FINAL ARCHITECTURAL FINISHES.
3. PENDANT/SUSPENSION MOUNTING - COORDINATE EXACT LOCATION, MOUNTING ELEVATION, AND REQUIRED PENDANT/SUSPENSION LENGTH WITH ARCHITECT AND ARCHITECTURAL DETAILS.
4. GYP CEILING MOUNTING - PROVIDE WITH MANUFACTURER'S FLANGE MOUNTING KIT/ACCESSORY(S) TO ALLOW FOR RECESSED MOUNTING OF LUMINAIRE WITHIN GYP CEILING.
5. PROVIDE WITH BOLLARD BASE PER DETAIL B1 ON SHEET E600.

GENERAL NOTES: (LUMINAIRE SCHEDULE)
A. CATALOG NUMBER VERIFICATION - CONTRACTOR SHALL VERIFY LIGHTING FIXTURE INSTALLATION REQUIREMENTS AND CATALOG NUMBER PRIOR TO ORDERING.
B. SUBSTITUTIONS - WHERE INDICATED WITH 'N' (NO), NO SUBSTITUTIONS WILL BE ACCEPTED. WHERE INDICATED WITH 'P' (PRIOR APPROVAL), SUBSTITUTIONS MUST BE APPROVED PRIOR TO BID WITH ACCEPTANCE ISSUED BY ADDENDUM. WHERE INDICATED WITH 'Y' (YES), THE FOLLOWING MANUFACTURER'S ARE CONSIDERED ACCEPTABLE EQUIVALENT MANUFACTURER'S, PROVIDED THE EQUIVALENT FIXTURE IS OF THE SAME QUALITY, EFFICIENCY, PERFORMANCE AND CHARACTERISTICS AS THAT SCHEDULED:
   1. ACUITY BRANDS
   2. EATON/COOPER BRANDS
   3. HUBBELL
   4. WILLIAMS
   5. PHILLIPS/SIGNIFY BRANDS
C. DOWNLIGHT - PROVIDE DOWNLIGHT REFLECTOR FINISH/COLOR AS SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE. SELECT CEILING TRIM FINISH/COLOR TO COORDINATE WITH CEILING TYPE. "WHITE" TRIM FOR DOWNLIGHTS MOUNTED IN WHITE ACOUSTICAL TILE CEILINGS. "CLEAR" (TO MATCH REFLECTOR FINISH/COLOR) FOR DOWNLIGHTS MOUNTED IN PAINTED GYPSUM BOARD CEILINGS.
D. FIXTURE FINISH - WHERE CATALOG NUMBER LISTED INDICATES "**" IN LIEU OF MANUFACTURER'S FINISH OPTION, COORDINATE WITH ARCHITECT FOR EXACT FINISH PRIOR TO ORDERING.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

TAG	SPACE TYPE	OCCUPANCY SENSOR TYPE	OCCUPANCY SENSOR TIME DELAY	AUTO ON %	AUTO OFF %	NETWORK	RECEPTACLE CONTROL	SCHEDULE CONTROL	REMARKS
CORR	CORRIDOR/VESTIBULE	IR-L	20 / 5	100 / 50	20 / 0	Y	N	A	
EXT	EXTERIOR/SITE	N	-	100 / *	* / 0	Y	-	B	
FA5	FINE MOTION - AUTO ON - 5 MINUTE	DT-F	5	100	0	Y	N	-	
FA20	FINE MOTION - AUTO ON - 20 MINUTE	DT-F	20	100	0	Y	N	-	
FP10	FINE MOTION - PARTIAL AUTO ON - 20 MINUTE	DT-F	10	50	0	Y	N	-	
FP20	FINE MOTION - PARTIAL AUTO ON - 20 MINUTE	DT-F	20	50	0	Y	N	-	
LA5	LARGE MOTION - AUTO ON - 5 MINUTE	DT-L	5	100	0	Y	N	-	
LM5	LARGE MOTION - MANUAL ON - 5 MINUTE	DT-L	5	M	0	Y	N	-	
MEP	MECHANICAL / ELECTRICAL	N	-	-	-	Y	N	-	NOTE 1
PAT	PATIENT CARE / PROCEDURE	N	-	-	-	Y	N	-	NOTE 1
RSTM	RESTROOM - MULTI OCCUPANT	DT-L	15	100	0	Y	N	-	
RSTS	RESTROOM - SINGLE OCCUPANT	IR-F	5	100	0	Y	N	-	

REMARKS: (LIGHTING CONTROL SEQUENCE OF OPERATIONS)
1. NO AUTOMATIC CONTROLS WITHIN THIS SPACE.

GENERAL NOTES: (LIGHTING CONTROL SEQUENCE OF OPERATIONS)
A. WHERE MULTIPLE CONTROL ZONES ARE INDICATED WITHIN A SPACE, THE 'AUTO ON' AND 'AUTO OFF' FUNCTIONS SHALL INCLUDE ALL CONTROL ZONES WITHIN THE SPACE UNLESS NOTED OTHERWISE.
B. DAYLIGHT HARVESTING - REFER TO LIGHTING CONTROL PLAN FOR DAYLIGHT ZONES REQUIRING PHOTOCELL CONTROL AND THEIR ASSOCIATED LIGHTING SET POINTS. TARGET ILLUMINANCE LEVELS SHALL BE MEASURED AT THE WORK PLANE OF THE PRIMARY TASK WITHIN THE SPACE.
C. OCCUPANCY SENSOR – PROVIDE OCCUPANCY SENSOR TYPE AS INDICATED BELOW. OCCUPANCY SENSORS SHALL BE CEILING MOUNTED UNLESS SPECIFICALLY INDICATED OTHERWISE. REFER TO LIGHTING CONTROL WALL DEVICE SCHEDULE FOR WALL MOUNTED OCCUPANCY SENSOR SWITCHES.
   1. SENSOR TYPE:
      - N = NO OCCUPANCY SENSOR(S)
      - IR = PASSIVE INFRARED
      - DT = DUAL-TECHNOLOGY
   2. SENSOR OPTIONS:
      - F = FINE MOTION - CAPABLE OF DETECTING HAND MOTION
      - L = LARGE MOTION - CAPABLE OF DETECTING WALKING MOTION
      - LTHH = LOW TEMPERATURE/HIGH HUMIDITY
      - HB = HIGH BAY
      - O = OUTDOOR
D. AUTO ON % - WHEN OCCUPANCY IS DETECTED WITHIN SPACE, ROOM LIGHTING SHALL BE TURNED ON TO SPECIFIED LIGHT LEVEL. WHERE INDICATED WITH 'M', ROOM SHALL BE MANUAL ON.
E. AUTO OFF % - WHEN SPECIFIED SENSOR TIME DELAY IS REACHED, ROOM LIGHTING SHALL BE REDUCED TO SPECIFIED LIGHT LEVEL. WHERE INDICATED AS ZERO PERCENT, ROOM LIGHTING SHALL BE SWITCHED OFF.
F. NETWORK – NETWORKED LIGHTING CONTROL SYSTEM INTERCOMMUNICATION:
   1. Y = PROVIDE NETWORK COMMUNICATIONS BETWEEN CONTROL DEVICES LIGHTING CONTROL SYSTEM HEAD END
   2. N = CONNECTION TO SYSTEM HEAD END NOT REQUIRED
G. RECEPTACLE CONTROL – OCCUPANCY SENSOR CONTROL OF SELECTED ROOM RECEPTACLES:
   1. Y = OCCUPANCY SENSOR SHALL SWITCH OFF INDICATED RECEPTACLES 20 MINUTES AFTER ALL OCCUPANTS HAVE VACATED SPACE
   2. N = RECEPTACLE CONTROL NOT REQUIRED IN SPACE
H. SCHEDULE CONTROL – NORMAL BUSINESS HOURS SHALL BE CONSIDERED 9:00 AM TO 4:00 PM. COORDINATE EXACT BUSINESS HOURS WITH BUILDING OWNER DURING PROGRAMMING.
   1. WHERE THE SEQUENCE INDICATES MULTIPLE SET POINT VALUES (TIME DELAY, AUTO ON %, AUTO OFF %), EACH VALUE SHALL BE THE SET POINT AT THE CORRESPONDING SCHEDULED TIMES INDICATED BELOW. FOR EXAMPLE, A TIME DELAY INDICATED AS 20 / 5 WITH A CORRESPONDING SCHEDULE OF 8:00 AM TO 5:00 PM / 5:00 PM TO 8:00 AM SHALL REQUIRE A 20 MINUTE DELAY FROM 8:00 AM TO 5:00 PM AND A 5 MINUTE DELAY FROM 5:00 PM TO 8:00 AM.
   2. PROJECT SCHEDULES:
      - SCHEDULE 'A' - 7:30 AM TO 5:30 PM / 5:30 PM TO 7:30 AM
      - SCHEDULE 'B' - 15 MINUTES PRIOR TO DUSK TO 15 MINUTES AFTER DAWN / 15 MINUTES AFTER DAWN TO 15 MINUTES BEFORE DUSK

LIGHTING CONTROL WALL DEVICE SCHEDULE

KEYPAD ID	DESCRIPTION	REQUIRED BUTTON FUNCTIONS
NO MARK	SINGLE ZONE - ON/OFF	ON @ 100%, OFF
1D	SINGLE ZONE - CONTINUOUS DIMMING	ON @ 100%, RAISE, LOWER, OFF
W	SINGLE ZONE - ON/OFF - WALL OCCUPANCY SENSOR	ON @ 100%, OFF INTEGRAL OCC. SENSOR

GENERAL NOTES (LIGHTING CONTROL DEVICE SCHEDULES):
1. 'ON' AND 'OFF' FUNCTIONS MAY BE COMBINED TO A SINGLE 'ON/OFF' BUTTON. 'RAISE' AND 'LOWER' FUNCTIONS MUST BE PROVIDED WITH DEDICATED BUTTONS, 'HOLD TO DIM' FUNCTIONALITY IS NOT ALLOWED.
2. SEE LIGHTING CONTROL SEQUENCE OF OPERATIONS FOR ADDITIONAL INFORMATION.
3. SUBMIT PROPOSED LOW VOLTAGE SWITCH BUTTON CONFIGURATIONS FOR ALL LOW VOLTAGE SWITCHES, CLEARLY IDENTIFYING ANY DEVIATIONS THAT NEED TO BE MADE DUE TO SWITCH CONFIGURATION OR ENGRAVING CONSTRAINTS FOR APPROVAL. IF SUBMITTED BUTTON CONFIGURATIONS DO NOT MEET DESIGN INTENT, ADDITIONAL LOW VOLTAGE SWITCHES MAY BE REQUIRED.
4. WHERE TASK TUNING LIGHT LEVELS ARE NOT SPECIFIED, 'ON' OR 'OCCUPIED' SHALL BE 100% OUTPUT WHILE 'OFF' OR 'UNOCCUPIED' SHALL BE 0% OUTPUT.

COORDINATION OF WORK SCHEDULE

ITEM	SUPPLIER	INSTALLER	POWER	CONTROL (4)
MOTORS	MC	MC (3)	EC	CC
MOTOR CONTROL CENTER	EC	EC	EC	CC
EQUIPMENT MOUNTED ELECTRICAL COMPONENTS	MC	MC	EC	CC
LOOSE MOUNTED ELECTRICAL COMPONENTS	EC	EC	EC	CC
CONTROL RELAYS, TRANSFORMERS, POWER	MC	EC	EC (4)	CC
120V THERMOSTATS	MC	MC	MC	CC (1)
TEMPERATURE CONTROL SENSORS	MC	MC	CC	CC
TEMPERATURE CONTROL PANELS	MC	CC	EC (4)	CC
VARIABLE SPEED DRIVES	MC	MC	EC	CC
TERMINAL BOX CONTROLS	MC	MC	EC (4)	CC
PE/EP SWITCHES, SOLENOID VALVES, ACTUATORS	CC	CC	EC (4)	CC
PUSHBUTTON STATIONS	EC	EC	EC (4)	EC
ELECTRIC HEATERS	MC	MC	EC	EC
DX CONDENSING UNITS AND CONDENSERS	MC	MC	EC	CC (1)
MEDICAL GAS ALARM WIRING	MC	MC	EC	MC (2)

REMARKS:
1. IF NO CC IN CONTRACT, MC TO WIRE CONTROLS AND EC TO PIPE CONDUIT.
2. ALL LOW VOLTAGE WIRING OF PANELS TO BE COVERED IN MC BID, WIRING CONTRACTOR TO BE SUBCONTRACTOR TO MC.
3. INSTALLING CONTRACTOR IS RESPONSIBLE FOR FIELD ALIGNMENT SERVICES WHEN REQUIRED BY COMMON MOTOR REQUIREMENTS SPECIFICATION OR BY INDIVIDUAL EQUIPMENT SPECIFICATIONS.
4. ALL HARDWARE, SOFTWARE, EQUIPMENT, ACCESSORIES, WIRING (POWER AND SENSOR), PIPING, RELAYS, SENSORS, POWER SUPPLIES, TRANSFORMERS, AND INSTRUMENTATION REQUIRED FOR A COMPLETE AND OPERATIONAL DDC SYSTEM, BUT NOT SHOWN ON THE ELECTRICAL DRAWINGS, ARE THE RESPONSIBILITY OF THE CC.

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DO NOT SCALE DRAWING. ALL DIMENSIONS AND CLEARANCES SHALL BE VERIFIED FROM APPROPRIATE SOURCES. ALL WORK SHALL BE COORDINATED PRIOR TO INSTALLATION. SEE SPECIFICATIONS.

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CONSTRUCTION DOCUMENTS
Novant ASC Leland
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ISSUE FOR:
CONSTRUCTION DOCUMENTS

REVISIONS:

Revision Number	Revision Description	Revision Date
1	ADDENDUM 1	05/21/2024
2	MODIFICATION 2	09/19/2024

ISSUE: 05/21/2024 DRAWN BY: SUB
9/19/2024 11:28:44 AM

A/E #: 22354

Novant ASC Leland

SHEET NAME
ELECTRICAL SCHEDULES

SHEET NUMBER
E700

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MSB

LOCATION: ELECTRICAL 152 **VOLTS:** 480/277 WYE **MAINS TYPE:** MCB
SUPPLY FROM: UTILITY **PHASES:** 3 **MCB/MLO RATING:** 1600 A
BRANCH: NORMAL **WIRES:** 4 **MCB OPTIONS:** LSI, ERMS, GFP
SERVICE RATED: Yes **INTEGRAL SPD:** Yes **SECTIONS:** 2
AVAILABLE SCC (kA): 25.1

CKT	CIRCUIT DESCRIPTION	OPT	POLES	RATING	Load	CIRCUIT REMARKS
1	1NH1	GFP	3	400 A	201769 VA	
2	T-1NL1	GFP	3	125 A	61310 VA	
3	T-1NL2	GFP	3	125 A	34436 VA	
4	ATS-C	LSI,GFP	3	125 A	90738 VA	
5	ATS-LS	LSI,GFP	3	45 A	12474 VA	
6	ATS-EQ	LSI,GFP	3	400 A	288720 VA	
7	CC-PACU	GFP	3	90 A	50240 VA	
8	03A /DECONTAMINATION 144	GFP	3	50 A	28682 VA	
9	09A.2 /STERILIZER STEAM GENERATOR 155	GFP	3	80 A	47389 VA	
10	09B.2 /STERILIZERS STEAM GENERATOR 155	GFP	3	80 A	47389 VA	
11	10.2 / STERILIZER STEAM GENERATOR 155	GFP	3	80 A	47389 VA	
12	03B /DECONTAMINATION 159	GFP	3	50 A	28682 VA	
13	SPARE	--	3	200 A	0 VA	GFP
14	SPARE	--	3	100 A	0 VA	GFP
15	SPACE	--	3	--	--	200A
16	SPACE	--	3	--	--	200A
17						
18						
19						
20						
				Total VA:	933406 VA	
				Total A:	1123 A	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
MEQ-NC	246190 VA	100.00%	246190 VA	CONNECTED LOAD:	933406 VA
LTG	12951 VA	125.00%	16189 VA	CONNECTED CURRENT:	1123 A
PWR-C	243392 VA	125.00%	304240 VA	DEMAND LOAD:	1002932 VA
Spare	88440 VA	100.00%	88440 VA	DEMAND CURRENT:	1206 A
REC	87636 VA	55.71%	48818 VA	CONSIDER 125% DEMAND:	1253665 A
MTR	175403 VA	117.30%	205749 VA	EQUIPMENT AMPS:	1600 A
MEQ-C	55649 VA	125.00%	69561 VA	SPARE CAPACITY:	24
PWR-NC	23745 VA	100.00%	23745 VA		394 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

LIGHTING PANEL: 1NH1

LOCATION: ELECTRICAL 163 **VOLTS:** 480/277 WYE **MAINS TYPE:** MCB
SUPPLY FROM: MSB **PHASES:** 3 **MCB/MLO RATING:** 400 A
BRANCH: NORMAL **WIRES:** 4 **MCB OPTIONS:** NONE
SERVICE RATED: No **INTEGRAL SPD:** No **SECTIONS:** 1
MOUNTING: SURFACE **AVAILABLE SCC (kA):** 23.9 **PANEL POLES:** 84
NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	A	B	B	C	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	ISO-ORN1	--	30 A	2	5000 VA	4667 VA					3	25 A		VAV-OR-1	2
3							5000 VA	4667 VA							4
5	ISO-ORN2	--	30 A	2					5000 VA	4667 VA					6
7					5000 VA	4667 VA					3	25 A		VAV-OR-2	8
9	ISO-PRON1	--	30 A	2			5000 VA	4667 VA							10
11									5000 VA	4667 VA					12
13	ISO-PRON2	--	30 A	2	5000 VA	4667 VA					3	25 A		VAV-OR-3	14
15							5000 VA	4667 VA							16
17									1940 VA	4667 VA					18
19	09A.1 /STERILIZERS 155		20 A	3	1940 VA	4667 VA					3	25 A		VAV-OR-4	20
21							1940 VA	4667 VA							22
23									1940 VA	4667 VA					24
25	09B.1 /STERILIZERS 155		20 A	3	1940 VA	6000 VA					1	30 A		VAV-OR-6	26
27							1940 VA	2500 VA			1	15 A		VAV-OR-7	28
29									3877 VA	1833 VA	3	15 A		C-154 PREP/PACK 154	30
31	10.1 / STERILIZERS 155		20 A	3	3877 VA	1833 VA									32
33							3877 VA	1833 VA							34
35	EH-1 DI WATER / BOILER / VACUUM PUMP / SPRINKLER 164		60 A	3					10000...	833 VA	3	15 A		C-159 DECONTAMINATION 159	36
37					10000...	833 VA									38
39							10000...	833 VA							40
41	VAV-PACU-1 CORRIDOR 102		15 A	1					2500 VA	1500 VA	1	15 A		VAV-PACU-6 CORRIDOR 115	42
43	VAV-PACU-2 CORRIDOR 123		15 A	1	2500 VA	1000 VA					1	15 A		VAV-PACU-8 PACU 3 118	44
45	VAV-PACU-3 CORRIDOR 102		15 A	1			2500 VA	500 VA			1	15 A		VAV-PACU-10 WAITING (35) 101	46
47	VAV-PACU-4 CORRIDOR 102		20 A	1					4000 VA	5000 VA	1	25 A		VAV-PACU-12 WAITING (35) 101	48
49	VAV-PACU-5 CORRIDOR 102		15 A	1	2000 VA	2000 VA					1	15 A		VAV-PACU-14 STAFF LOUNGE...	50
51	VAV-PACU-7 ANESTHESIA...		15 A	1			2500 VA	3000 VA			1	15 A		VAV-PACU-16 FEMALE...	52
53	VAV-PACU-9 CORRIDOR 125		15 A	1					500 VA	2500 VA	1	15 A		VAV-PACU-18 REGISTRATION...	54
55	VAV-PACU-11 WAITING (35) 101		15 A	1	1000 VA	--					1	--	--	SPACE	56
57	VAV-PACU-13 SUPERVISOR...		15 A	1			500 VA	--			1	--	--	SPACE	58
59	VAV-PACU-15 CORRIDOR 165		15 A	1					1000 VA	--	1	--	--	SPACE	60
61	VAV-PACU-17 MALE LOCKERS...		15 A	1	500 VA	--					1	--	--	SPACE	62
63	VAV-PACU-19 CORRIDOR 160		15 A	1			1000 VA	--			1	--	--	SPACE	64
65	SPACE	--	--	1					--	--	1	--	--	SPACE	66
67	SPACE	--	--	1	--	--					1	--	--	SPACE	68
69	SPACE	--	--	1			--	0 VA			1	15 A	--	SPARE	70
71	SPARE	--	25 A	1					0 VA	0 VA	1	15 A	--	SPARE	72
73					0 VA	0 VA					1	20 A	--	SPARE	74
75	SPARE	--	25 A	3			0 VA	0 VA			3	15 A	--	SPARE	76
77									0 VA	0 VA					78
79					0 VA	0 VA									80
81	SPARE	--	20 A	3			0 VA	0 VA			2	30 A	--	SPARE	82
83									0 VA	0 VA					84
			TOTAL LOAD:		69090 VA		66590 VA		66090 VA						
			TOTAL AMPS:		250 A		241 A		239 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
MEQ-NC	138500 VA	100.00%	138500 VA	CONNECTED LOAD:	195957 VA
PWR-C	17457 VA	125.00%	21821 VA	CONNECTED CURRENT:	236 A
Spare	40000 VA	100.00%	40000 VA	DEMAND LOAD:	200321 VA
				DEMAND CURRENT:	241 A
				CONSIDER 125% DEMAND:	250402 A
				EQUIPMENT AMPS:	400 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	39 %
					159 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

PANEL: 1NL1

LOCATION: ELECTRICAL 163 **VOLTS:** 208/120 WYE **MAINS TYPE:** MCB
SUPPLY FROM: T-1NL1 **PHASES:** 3 **MCB/MLO RATING:** 250 A
BRANCH: NORMAL **WIRES:** 4 **MCB OPTIONS:** NONE
SERVICE RATED: No **INTEGRAL SPD:** No **SECTIONS:** 2
MOUNTING: SURFACE **AVAILABLE SCC (kA):** 6.4 **PANEL POLES:** 84
NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	A	B	B	C	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC DI WATER / BOILER /...		20 A	1	540 VA	1260 VA					3	100 A		IT-1	2
3	REC SOILED 131		20 A	1			720 VA	1360 VA							4
5	STAFF LOUNGE 171		20 A	1					1020 VA	720 VA					6
7	REC WAITING 101		20 A	1	900 VA	900 VA					1	20 A		REC VITALS 124, TOILET 105, ...	8
9	REC WAITING 101		20 A	1			1320 VA	1080 VA			1	20 A		REC ROOM 150, 153, 183	10
11	EWC-1 WAITING 101		20 A	1					540 VA	720 VA	1	20 A		REC DICTATION 149	12
13	COFFEE WAITING 101		20 A	1	1200 VA	500 VA					1	20 A		UC REFRIG DICTATION 149	14
15	REC ROOM 105, 103		20 A	1			540 VA	900 VA			1	20 A		PRINTER OR CH + RAD TECH...	16
17	REC ROOM 104, 103		20 A	1					1080 VA	540 VA	1	20 A		REC OR CH + RAD TECH 137	18
19	PRINTER WORK 103		20 A	1	900 VA	900 VA					1	20 A		REC CASE CART 158	20
21	ICE MACHINE STAFF LOUNGE...	G	15 A	1			1080 VA	1200 VA			1	20 A		REC NURSE STATION 127	22
23	COFFEE STAFF LOUNGE 161		20 A	1					1200 VA	900 VA	1	20 A		PRINTER NURSE STATION 176	24
25	REC STAFF LOUNGE 161		20 A	1	360 VA	540 VA					1	20 A		REC LINEN 128	26
27	MICROWAVE STAFF LOUNGE...		20 A	1			1740 VA	360 VA			1	20 A		REC NURSE STATION 133	28
29	REFRIG. STAFF LOUNGE 161	G	20 A	1					720 VA	360 VA	1	20 A		REC ROOM MEDS 129	30
31	REC ROOM 171		20 A	1	660 VA	1115 VA					1	20 A		ULTRASOUND EQUIPMENT 136	32
33	LTG - WAITING		20 A	1			701 VA	540 VA			1	20 A		REC ROOM 176, 175, 181, 174	34
35	LTG - STAFF,...		20 A	1					1082 VA	1080 VA	1	20 A		REC NURSE STATION 133	36
37	PRINTER SUPERVISOR OFF....		20 A	1	2000 VA	720 VA					1	20 A		REC CLEAN CORE 152	38
39	REC SUPERVISOR OFFICE 164		20 A	1			540 VA	720 VA			1	20 A		REC EVS 113 & DISCHARGE...	40
41	REC ROOM 158, 155, EXTERIOR		20 A	1					1080 VA	756 VA	1	20 A		OPHTHALMIC EQUIP ALCOVE...	42
43	REC RECEIVING / VENDOR /...		20 A	1	720 VA	756 VA					1	20 A		OPHTHALMIC EQUIP ALCOVE...	44
45	REC BULK STORAGE 156		20 A	1			720 VA	1800 VA			1	20 A		ELEC. UNIT EQUIP ALCOVE 136	46
47	REC ROOM 152, 151		20 A	1					540 VA	540 VA	1	20 A		REC EQUIPMENT STORAGE 126	48
49	REC ROOM 143, 145		20 A	1	900 VA	1080 VA					1	20 A		REC EQUIPMENT STORAGE 126	50
51	WASTE DISP. SOILED HOLD 145		20 A	1			1056 VA	1080 VA			1	20 A		REC EQUIPMENT STORAGE 126	52
53	REC CONSULT 106		20 A	1					720 VA	720 VA	1	20 A		REC EQUIPMENT STORAGE 126	54
55	LTG - CORRIDORS		20 A	1	1024 VA	480 VA					1	20 A		REC WAITING (31) 101	56
57	REC ROOM 116, 102		20 A	1			360 VA	1000 VA			1	20 A		LTG - OPERATING ROOMS	58
59	SPARE GFCI	--	20 A	1					0 VA	720 VA	1	20 A		REC CORRIDOR 154	60
61	SPARE GFCI	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	62
63	SPARE	--	15 A	1			0 VA	0 VA			1	20 A	--	SPARE	64
65	SPARE	--	15 A	1					0 VA	0 VA	1	20 A	--	SPARE	66
67	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	68
69	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	70
71	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	72
73	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	74
75	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	76
77	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	78
79	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	80
81	SPARE	--	20 A	1			0 VA	5000 VA			2	100 A	--	GENERATOR ACCESSORY PANELBOARD	82
83	SPARE	--	20 A	1					0 VA	5000 VA					84
			TOTAL LOAD:		17455 VA		23817 VA		20038 VA						
			TOTAL AMPS:		145 A		202 A		170 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTG	3807 VA	125.00%	4759 VA	CONNECTED LOAD:	61310 VA
PWR-C	4800 VA	125.00%	6000 VA	CONNECTED CURRENT:	170 A
Spare	10000 VA	100.00%	10000 VA	DEMAND LOAD:	54692 VA
REC	27540 VA	68.16%	18770 VA	DEMAND CURRENT:	152 A
PWR-NC	15163 VA	100.00%	15163 VA	CONSIDER 125% DEMAND:	68365 A
				EQUIPMENT AMPS:	250 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	39 %
					98 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

LIGHTING PANEL: 1NL2

LOCATION: ELECTRICAL 163 **VOLTS:** 208/120 WYE **MAINS TYPE:** MCB
SUPPLY FROM: T-1NL2 **PHASES:** 3 **MCB/MLO RATING:** 250 A
BRANCH: NORMAL **WIRES:** 4 **MCB OPTIONS:** N/A
SERVICE RATED: No **INTEGRAL SPD:** No **SECTIONS:** 1
MOUNTING: SURFACE **AVAILABLE SCC (kA):** 6.3 **PANEL POLES:** 60
NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	A	B	B	C	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC PRE/POST 1 & 2		20 A	1	1080 VA	1000 VA					3	20 A		02 /DECONTAMINATION 159	2
3	REC PRE/POST 1 & 2		20 A	1			720 VA	1000 VA							4
5	REC ROOM 110, 111, 112		20 A	1					1080 VA	1000 VA					6
7	REC PRE / POST 3, 4, & 5		20 A	1	1080 VA	480 VA					1	20 A		REC DECONTAMINATION 144	8
9	REC ROOM 113, 114, 115		20 A	1			720 VA	720 VA			1	20 A		REC PREP/PACK 140	10
11	REC PRE / POST 6, 7, & 8		20 A	1					1080 VA	360 VA	1	20 A		REC CORRIDOR 182	12
13	REC ROOM 169, 170, 171		20 A	1	1080 VA	180 VA					1	20 A		LTG CONTROL PNL IT 169	14
15	REC ROOM 172, 173		20 A	1			360 VA	1200 VA			1	20 A		10.3 /STERILIZER CTRL 155	16
17	REC ROOM 169, 170, 171, 172,...		20 A	1					720 VA	360 VA	1	20 A		REC DECONTAMINATION 159	18
19	REC ANESTHESIA OFFICE 116		20 A	1	900 VA	1200 VA					1	20 A		DI-1 DI WATER / BOILER /...	20
21	REC DECOM 159		20 A	1			540 VA	180 VA			1	20 A		REC EXTERIOR	22
23	REC MEDS ALCOVE 138		20 A	1					360 VA	795 VA	2	15 A		SSAH-152 / SSCU-152 ELECTRICAL 163	24
25	REC EQUIPMENT ALCOVE 133		20 A	1	360 VA	795 VA									26
27	WS-1		20 A	1			480 VA	696 VA			1	15 A		EF-1	28
29	EF-3 ROOF		25 A	1					1176 VA	180 VA	1	20 A		DI LEAK DETECTOR 164	30
31	REC SCRUB 139 & 138		20 A	1	360 VA	180 VA					1	20 A		DI REMOTE MONITOR 164	32
33	REC CORRIDOR 124		20 A	1			1080 VA	180 VA			1	20 A		DI SOLENOID 164	34
35	REC /ROOF		20 A	1					360 VA	720 VA	1	20 A		07 / PREP/PACK 154 TABLE	36
37	REC /ROOF		20 A	1	360 VA	1200 VA					1	20 A		09A.3 /STERILIZER CTRL 155	38
39	ILLUMINATED BUILDING SIGN		20 A	1			250 VA	1200 VA			1	20 A		09B.3 /STERILIZER CTRL 155	40
41									1921 VA	540 VA	1	20 A		REC EXTERIOR	42
43	06-STERILIZER PREP/PACK 140		20 A	3	1921 VA	0 VA					1	20 A	--	SPARE	44
45							1921 VA	0 VA			1	20 A	--	SPARE	46
47	13 / CHEMISTRY DELIVERY...		20 A	1					240 VA	0 VA	2	15 A	--	SPARE	48
49	05 - PASS THROUGH WINDOW...		20 A	1	120 VA	0 VA									50
51	SPARE	--	20 A	1			0 VA	0 VA			3	20 A	--	SPARE	52
53	SPARE	--	20 A	1					0 VA	0 VA					54
55	SPARE	--	20 A	1	0 VA	0 VA									56
57	SPARE	--	20 A	1			0 VA	0 VA			1	15 A	--	SPARE	58
59	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	60
			TOTAL LOAD:		12296 VA		11247 VA		10892 VA						
			TOTAL AMPS:		103 A		94 A		91 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
MEQ-NC	1710 VA	100.00%	1710 VA	CONNECTED LOAD:	34436 VA
PWR-C	13624 VA	125.00%	17030 VA	CONNECTED CURRENT:	96 A
REC	15300 VA	82.68%	12650 VA	DEMAND LOAD:	35492 VA
MTR	3072 VA	109.77%	3372 VA	DEMAND CURRENT:	99 A
PWR-NC	730 VA	100.00%	730 VA	CONSIDER 125% DEMAND:	44365 A
				EQUIPMENT AMPS:	250 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	60 %
					151 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

PANEL: IT-1

LOCATION: IT 169 **VOLTS:** 208/120 WYE **MAINS TYPE:** MCB
SUPPLY FROM: 1NL1 **PHASES:** 3 **MCB/MLO RATING:** 100 A
BRANCH: NORMAL **WIRES:** 4 **MCB OPTIONS:** NONE
SERVICE RATED: No **INTEGRAL SPD:** Yes **SECTIONS:** 1
MOUNTING: SURFACE **AVAILABLE SCC (kA):** 4.7 **PANEL POLES:** 42
NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	A	B	B	C	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC IT 169		20 A	1	900 VA	0 VA					1	20 A	--	SPARE	2
3	REC IT 169		20 A	1			360 VA	0 VA			1	20 A	--	SPARE	4
5	REC IT 169		20 A	1					360 VA	0 VA	1	20 A	--	SPARE	6
7	REC IT 169		20 A	1	360 VA	0 VA					1	20 A	--	SPARE	8
9	INTRUSION DETECTION IT 169		20 A	1			1000 VA	0 VA			1	20 A	--	SPARE	10
11	REC IT 169		20 A	1					360 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	14
15	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	16
17	SPACE	--	--	1					--	0 VA	1	20 A	--	SPARE	18
19	SPACE	--	--	1	--	0 VA					1	20 A	--	SPARE	20
21	SPACE	--	--	1			--	--			1	--	--	SPACE	22
23	SPACE	--	--	1					--	--	1	--	--	SPACE	24
25	SPACE	--	--	1	--	--					1	--	--	SPACE	26
27	SPACE	--	--	1			--	--			1	--	--	SPACE	28
29	SPACE	--	--	1					--	--	1	--	--	SPACE	30
31	SPACE	--	--	1	--	--					1	--	--	SPACE	32
33	SPACE	--	--	1			--	--			1	--	--	SPACE	34
35	SPACE	--	--	1					--	--	1	--	--	SPACE	36
37	SPACE	--	--	1	--	--					1	--	--	SPACE	38
39	SPACE	--	--	1			--	--			1	--	--	SPACE	40
41	SPACE	--	--	1					--	--	1	--	--	SPACE	42
			TOTAL LOAD:		1260 VA		1360 VA		720 VA						
			TOTAL AMPS:		11 A		12 A		6 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
PWR-C	1000 VA	125.00%	1250 VA	CONNECTED LOAD:	3340 VA
REC	2340 VA	100.00%	2340 VA	CONNECTED CURRENT:	9 A
				DEMAND LOAD:	3590 VA
				DEMAND CURRENT:	10 A
				CONSIDER 125% DEMAND:	4488 A
				EQUIPMENT AMPS:	100 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	90 %
					90 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

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CONSTRUCTION DOCUMENTS

Novant ASC Leland

9/19/2024 11:28:47 AM

ISSUE FOR:
CONSTRUCTION DOCUMENTS

REVISIONS:

Revision Number	Revision Description	Revision Date
1	ADDENDUM 1	05/21/2024
2	MODIFICATION 2	09/19/2024

ISSUE: 05/21/2024 DRAWN BY: SUB
9/19/2024 11:28:47 AM

A/E #: 22354

Novant ASC Leland

SHEET NAME
ELECTRICAL PANEL SCHEDULES - NORMAL

SHEET NUMBER
E701

Autodesk Docs://Novant ASC Leland/22354_Novant Brunswick ASC_SES_2022.rvt
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ESB

LOCATION: EMERGENCY... | VOLTS: 480/277 WYE | MAINS TYPE: MCB
SUPPLY FROM: GENERATOR | PHASES: 3 | MCB/MLO RATING: 600 A
BRANCH: LIFE SAFETY | WIRES: 4 | MCB OPTIONS: LSI
SERVICE RATED: No | INTEGRAL SPD: Yes | SECTIONS: 2
AVAILABLE SCC (kA): 27.9

CKT	CIRCUIT DESCRIPTION	OPT	POLES	RATING	LOAD	CIRCUIT REMARKS
1	ATS-C	LSI	3	125 A	90738 VA	
2	ATS-LS	LSI	3	45 A	12474 VA	
3	ATS-EQ	LSI	3	400 A	288720 VA	
4						
5						
6						
7						
8						
9						
10						
				Total VA:	391932 VA	
				Total A:	471 A	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
MEQ-NC	105980 VA	100.00%	105980 VA	CONNECTED LOAD:	391932 VA
LTG	9144 VA	125.00%	11430 VA	CONNECTED CURRENT:	471 A
PWR-C	7980 VA	125.00%	9975 VA	DEMAND LOAD:	410513 VA
Spare	38440 VA	100.00%	38440 VA	DEMAND CURRENT:	494 A
REC	44796 VA	61.16%	27398 VA	CONSIDER 125% DEMAND:	513141 A
MTR	172331 VA	117.61%	202677 VA	EQUIPMENT AMPS:	600 A
MEQ-C	5409 VA	125.00%	6761 VA	SPARE CAPACITY:	17
PWR-NC	7852 VA	100.00%	7852 VA		106 A

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS

GENERAL REMARKS:
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

PANEL: 1LSL1

LOCATION: EMERGENCY ELECTRICAL... | VOLTS: 208/120 WYE | MAINS TYPE: MCB
SUPPLY FROM: T-1LSL1 | PHASES: 3 | MCB/MLO RATING: 100 A
BRANCH: LIFE SAFETY | WIRES: 4 | MCB OPTIONS: LSI
SERVICE RATED: No | INTEGRAL SPD: Yes | SECTIONS: 1
MOUNTING: SURFACE | AVAILABLE SCC (kA): 3.3 | PANEL POLES: 42
NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	A	B	B	C	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	FACP EMER ELECTRICAL 151	R, L	20 A	1	1000 VA	1440 VA					1	20 A	--	PORTABLE GEN BATT...	2
3	AUTO DOOR VESTIBULE 100		20 A	1			600 VA	2500 VA			2	30 A	--	PORTABLE GEN BLOCK HEATER	4
5	AUTO DOOR VESTIBULE 100		20 A	1					600 VA	2500 VA					6
7	AUTO DOOR DISCHARGE...		20 A	1	600 VA	100 VA					1	20 A	--	MAP-2 SUPERVISOR OFFICE...	8
9	AUTO DOOR CORRIDOR 182		20 A	1			600 VA	360 VA			1	20 A		REC EMERGENCY ELECTRIC...	10
11	AUTO DOOR CORRIDOR 124		20 A	1					600 VA	0 VA	1	20 A	--	SPARE	12
13	LTG - EMERG. EGRESS		20 A	1	874 VA	0 VA					1	20 A	--	SPARE	14
15	AP-1 OR CHARGE + RAD TEC...		20 A	1			100 VA	0 VA			1	20 A	--	SPARE	16
17	AP-2 NURSE STATION 133		20 A	1					100 VA	0 VA	1	20 A	--	SPARE	18
19	AP-3 NURSE STATION 127		20 A	1	100 VA	0 VA					1	20 A	--	SPARE	20
21	AP-4 PREP/PACK 140		20 A	1			100 VA	0 VA			1	20 A	--	SPARE	22
23	MA-1 EXTERIOR		20 A	1					100 VA	0 VA	1	20 A	--	SPARE	24
25	O2-1 EXTERIOR		20 A	1	100 VA	0 VA					1	20 A	--	SPARE	26
27	MAP-1 REGISTRATION 103		20 A	1			100 VA	0 VA			1	20 A	--	SPARE	28
29	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	30
31	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	32
33	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	34
35	SPARE	--	20 A	1					0 VA	0 VA	2	30 A	--	SPARE	36
37	SPARE	--	20 A	1	0 VA	0 VA									38
39	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	40
41	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	42
			TOTAL LOAD:		4214 VA		4360 VA		3900 VA						
			TOTAL AMPS:		36 A		37 A		33 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
MEQ-NC	800 VA	100.00%	800 VA	CONNECTED LOAD:	12474 VA
LTG	874 VA	125.00%	1092 VA	CONNECTED CURRENT:	35 A
PWR-C	3000 VA	125.00%	3750 VA	DEMAND LOAD:	13442 VA
Spare	6440 VA	100.00%	6440 VA	DEMAND CURRENT:	37 A
REC	360 VA	100.00%	360 VA	CONSIDER 125% DEMAND:	16803 A
PWR-NC	1000 VA	100.00%	1000 VA	EQUIPMENT AMPS:	100 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	62 %
					63 A

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

PANEL: 1EQH1

LOCATION: EMERGENCY ELECTRICAL... | VOLTS: 480/277 WYE | MAINS TYPE: MCB
SUPPLY FROM: ATS-EQ | PHASES: 3 | MCB/MLO RATING: 400 A
BRANCH: EQUIPMENT | WIRES: 4 | MCB OPTIONS: LSI
SERVICE RATED: No | INTEGRAL SPD: No | SECTIONS: 1
MOUNTING: SURFACE | AVAILABLE SCC (kA): 20.9 | PANEL POLES: 42
NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	A	B	B	C	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	T-1EQL1	LSI	70 A	3	5836 VA	40461...					3	175 A	LSI	AHU-OR	2
3							5643 VA	40461...							4
5									5639 VA	40461...					6
7	MVP-1 DI WATER / BOILER / VACUUM PUMP / SPRINKLER 164		30 A	3	3797 VA	12667...					3	60 A		C-AHU-OR DICTATION 161	8
9							3797 VA	12667...							10
11									3797 VA	12667...					12
13	IAC-1 DI WATER / BOILER / VACUUM PUMP / SPRINKLER 164		30 A	3	4212 VA	8064 VA					3	60 A	GFP	AHU-PACU ROOF	14
15							4212 VA	8064 VA							16
17									4212 VA	8064 VA					18
19	WH-1 DI WATER / BOILER / VACUUM PUMP / SPRINKLER 164		60 A	3	12000...	5167 VA					3	25 A		C-AHU-PACU-1 CORRIDOR 125	20
21							12000...	5167 VA							22
23									12000...	5167 VA					24
25	SPARE	--	20 A	1	0 VA	4167 VA					3	20 A		C-AHU-PACU-2 CORRIDOR 102	26
27	SPARE	--	20 A	1			0 VA	4167 VA							28
29	SPARE	--	20 A	1					0 VA	4167 VA					30
31	SPARE	--	30 A	3	0 VA	0 VA					3	50 A	--	SPARE	32
33							0 VA	0 VA							34
35									0 VA	0 VA					36
37	SPARE	--	70 A	3	0 VA	0 VA					3	60 A	--	SPARE	38
39							0 VA	0 VA							40
41									0 VA	0 VA					42
			TOTAL LOAD:		96370 VA		96177 VA		96173 VA						
			TOTAL AMPS:		348 A		347 A		347 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
MEQ-NC	105180 VA	100.00%	105180 VA	CONNECTED LOAD:	288720 VA
PWR-C	3800 VA	125.00%	4750 VA	CONNECTED CURRENT:	347 A
Spare	2000 VA	100.00%	2000 VA	DEMAND LOAD:	321368 VA
MTR	172331 VA	117.61%	202677 VA	DEMAND CURRENT:	387 A
MEQ-C	5409 VA	125.00%	6761 VA	CONSIDER 125% DEMAND:	401710 A
				EQUIPMENT AMPS:	400 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	3 %
					13 A

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

LIGHTING PANEL: 1CL1

LOCATION: EMERGENCY ELECTRICAL... | VOLTS: 208/120 WYE | MAINS TYPE: MCB
SUPPLY FROM: T-1CL1 | PHASES: 3 | MCB/MLO RATING: 250 A
BRANCH: CRITICAL | WIRES: 4 | MCB OPTIONS: LSI
SERVICE RATED: No | INTEGRAL SPD: Yes | SECTIONS: 2
MOUNTING: SURFACE | AVAILABLE SCC (kA): 5.9 | PANEL POLES: 102 (2)
NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	A	B	B	C	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	IT-2	LSI	100 A	3	720 VA	696 VA					1	20 A		DEFIB & PUMP CRASH CART...	2
3							1360 VA	180 VA			1	20 A	G	UC REFRIG. CRASH CART...	4
5									720 VA	1080 VA	1	20 A		REC NURSE STATION 181	6
7	REC ROOM 105, 104		20 A	1	720 VA	500 VA					1	20 A		CRASH CART NURSE STATIO...	8
9	REC WORK 103		20 A	1			360 VA	1500 VA			1	20 A		REC EQUIPMENT ALCOVE 136	10
11	COPIER WORK 103		20 A	1					1500 VA	1800 VA	1	20 A		ANESTHESIA MACHINE...	12
13	REC ADMIN OFFICE 163, 149		20 A	1	720 VA	1700 VA					1	20 A		WARMING CABINET CLEAN...	14
15	REC DICTATION 149		20 A	1			720 VA	1440 VA			1	20 A		X-RAY UNIT /EQUIPMENT...	16
17	REC OR CH + RAD TECH 137		20 A	1					720 VA	540 VA	1	20 A		X-RAY UNIT /EQUIPMENT...	18
19	PYXIS MEDS ALCOVE 138		20 A	1	120 VA	1500 VA					1	20 A		WARMING CAB EQUIP ALCOV...	20
21	UC REFRIG MEDS ALCOVE 138		20 A	1			168 VA	1500 VA			1	20 A		WARMING CAB. /EQUIPMENT...	22
23	WARMING CABINET CLEAN 177		20 A	1					1500 VA	720 VA	1	20 A		REC PRE / POST 1 122	24
25	REC NURSE STATION 176		20 A	1	720 VA	720 VA					1	20 A		REC PRE/POST 1 & 2	26
27	REC CRASH CART 126		20 A	1			500 VA	1080 VA			1	20 A		REC PACU 4 & 1	28
29	REFRIG. NOURISHMENT 185	G	20 A	1					132 VA	1200 VA	1	20 A		REC ROOM 169, 170	30
31	ICE MACHINE NOURISHMENT...	G	15 A	1	1080 VA	720 VA					1	20 A		REC PACU 1 169	32
33	PYXIS MEDS 179		20 A	1			180 VA	720 VA			1	20 A		REC PACU 2 170	34
35	PYXIS MEDS 179		20 A	1					120 VA	1200 VA	1	20 A		REC ROOM 171, 172	36
37	UC REFRIG MEDS 179		20 A	1	168 VA	720 VA					1	20 A		REC PACU 3 171	38
39	REC MEDS 129		20 A	1			360 VA	720 VA			1	20 A		REC PACU 4 172	40
41	REC CLEAN CORE 127		20 A	1					360 VA	1323 VA	1	20 A		LTG - OPERATING ROOM 141	42
43	FREEZE/R CLEAN CORE 127		20 A	1	1464 VA	1323 VA					1	20 A		LTG OPERATING ROOM 137	44
45	REFRIG. /CLEAN CORE 127		20 A	1			1000 VA	1323 VA			1	20 A		LTG PROCEDURE ROOM 144	46
47	REC CLEAN...		20 A	1					1800 VA	1323 VA	1	20 A		LTG PROCEDURE ROOM 140	48
49	X-RAY UNIT /EQUIPMENT...		20 A	1	1440 VA	598 VA					1	20 A		LTG - SURGICAL SUPPORT	50
51	REC CRASH CART 126		20 A	1			500 VA	947 VA			1	20 A		LTG - DECON, STERILE	52
53	REC PRE / POST 3 109		20 A	1					720 VA	802 VA	1	20 A		LTG - PRE/POST	54
55	REC ROOM 109, 110		20 A	1	720 VA	631 VA					1	20 A		LTG - NURSE STATION,...	56
57	REC ROOM 109, 110		20 A	1			600 VA	360 VA			1	20 A	G	SCRUB SINK /EQUIPMENT...	58
59	REC PRE / POST 5 111		20 A	1					720 VA	360 VA	1	20 A	G	SCRUB SINK /EQUIPMENT...	60
61	REC ROOM 111, 112		20 A	1	720 VA	180 VA					1	20 A		FB1 PROCEDURE ROOM 144	62
63	REC PRE / POST 6 112		20 A	1			720 VA	5000 VA			2	60 A	--	ISO-LASER	64
65	REC ROOM 111, 112		20 A	1					1200 VA	5000 VA					66
67	REC PRE / POST 7 113		20 A	1	720 VA	5000 VA					2	60 A	--	ISO-ORC1	68
69	REC ROOM 113, 114		20 A	1			720 VA	5000 VA							70
71	REC ROOM 113, 114		20 A	1					1200 VA	5000 VA	2	60 A	--	ISO-ORC2	72
73	REC PRE / POST 8 114		20 A	1	720 VA	5000 VA									74
75	REC PRE / POST 9 115		20 A	1			720 VA	0 VA			2	60 A	--	ISO-PROC1	76
77	REC PRE / POST 9 115		20 A	1					600 VA	0 VA					78
79	LIGHT PROCEDURE ROOM 144		20 A	1	180 VA	0 VA					2	60 A	--	ISO-PROC2	80
81	REC PRE / POST 1 122		20 A	1			1200 VA	0 VA							82
83	REC PRE / POST 2 123		20 A	1					720 VA	0 VA	1	20 A	--	SPARE	84
85	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	86
87	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	88
89	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	90
91	SPARE GFCI	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	92
93	SPARE GFCI	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	94
95	SPACE	--	--	1					--	--	1	--	--	SPACE	96
97	SPACE	--	--	1	--	--					1	--	--	SPACE	98
99	SPACE	--	--	1			--	--			1	--	--	SPACE	100
101	SPACE	--	--	1					--	--	1	--	--	SPACE	102
			TOTAL LOAD:		29501 VA		28878 VA		32360 VA						
			TOTAL AMPS:		247 A		241 A		270 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTG	8270 VA	125.00%	10338 VA	CONNECTED LOAD:	90738 VA
PWR-C	1180 VA	125.00%	1475 VA	CONNECTED CURRENT:	252 A
Spare	30000 VA	100.00%	30000 VA	DEMAND LOAD:	75883 VA
REC	44436 VA	61.25%	27218 VA	DEMAND CURRENT:	211 A
PWR-NC	6852 VA	100.00%	6852 VA	CONSIDER 125% DEMAND:	94853 A
				EQUIPMENT AMPS:	250 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	15 %
					39 A

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

PANEL: IT-2

LOCATION: IT 169 | VOLTS: 208/120 WYE | MAINS TYPE: MCB
SUPPLY FROM: 1CL1 | PHASES: 3 | MCB/MLO RATING: 100 A
BRANCH: CRITICAL | WIRES: 4 | MCB OPTIONS: LSI
SERVICE RATED: No | INTEGRAL SPD: Yes | SECTIONS: 1
MOUNTING: SURFACE | AVAILABLE SCC (kA): 4.6 | PANEL POLES: 42
NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	A	B	B	C	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC IT 169		20 A	1	360 VA	0 VA					1	20 A	--	SPARE	2
3	REC IT 169		20 A	1			360 VA	0 VA			1	20 A	--	SPARE	4
5	REC IT 169		20 A	1					360 VA	0 VA	1	20 A	--	SPARE	6
7	REC IT 169		20 A	1	360 VA	0 VA					1	20 A	--	SPARE	8
9	NURSE CALL PANEL IT 169		20 A	1			1000 VA	0 VA			1	20 A	--	SPARE	10
11	REC IT 169		20 A	1					360 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	14
15	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	16
17	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	18
19	SPACE	--	--	1	--	0 VA					1	20 A	--	SPARE	20
21	SPACE	--	--	1			--	--			1	--	--	SPACE	22
23	SPACE	--	--	1					--	--	1	--	--	SPACE	24
25	SPACE	--	--	1	--	--					1	--	--	SPACE	26
27	SPACE	--	--	1			--	--			1	--	--	SPACE	28
29	SPACE	--	--	1					--	--	1	--	--	SPACE	30
31	SPACE	--	--	1	--	--					1	--	--	SPACE	32
33	SPACE	--	--	1			--	--			1	--	--	SPACE	34
35	SPACE	--	--	1					--	--	1	--	--	SPACE	36
37	SPACE	--	--	1	--	--					1	--	--	SPACE	38
39	SPACE	--	--	1			--	--			1	--	--	SPACE	40
41	SPACE	--	--	1					--	--	1	--	--	SPACE	42
			TOTAL LOAD:		720 VA		1360 VA		720 VA						
			TOTAL AMPS:		6 A		11 A		6 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
PWR-C	1000 VA	125.00%	1250 VA	CONNECTED LOAD:	2800 VA
REC	1800 VA	100.00%	1800 VA	CONNECTED CURRENT:	8 A
				DEMAND LOAD:	3050 VA
				DEMAND CURRENT:	8 A
				CONSIDER 125% DEMAND:	3813 A
				EQUIPMENT AMPS:	100 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	91 %
					92 A

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

PANEL: 1EQL1

LOCATION: EMERGENCY ELECTRICAL... | VOLTS: 208/120 WYE | MAINS TYPE: MCB
SUPPLY FROM: T-1EQL1 | PHASES: 3 | MCB/MLO RATING: 150 A
BRANCH: EQUIPMENT | WIRES: 4 | MCB OPTIONS: LSI
SERVICE RATED: No | INTEGRAL SPD: No | SECTIONS: 1
MOUNTING: SURFACE | AVAILABLE SCC (kA): 3.4 | PANEL POLES: 42
NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	A	B	B	C	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	AC IT 169		20 A	1	1000 VA	197 VA					1	15 A		RCP-1	2
3	AC IT 169		20 A	1			1000 VA	180 VA			1	20 A		P-160 IT 169	4
5	EF-2 ROOF		25 A	1					1176 VA	795 VA	2	15 A		SSAH-151 / SSCU-151 EMERGENCY ELECTRICAL 162	6
7	HOT BOX SITE		20 A	1	600 VA	795 VA									8
9	HOT BOX SITE		20 A	1			600 VA	795 VA			2	15 A		SSAH-160 / SSCU-160 IT 169	10
11	BACK FLOW SITE		20 A	1					600 VA	795 VA					12
13	EF-4 ROOF		25 A	1	1176 VA	795 VA					2	15 A		SSAH-153 / SSCU-153 DI WATER 164	14
15	PUMP STATION PS-1		30 A	3			1273 VA	795 VA							16
17									1273 VA	0 VA	1	20 A	--	SPARE	18
19					1273 VA	0 VA					1	20 A	--	SPARE	20
21	VAV CONTROLS POWER	--	20 A	1			1000 VA	0 VA			1	20 A	--	SPARE	22
23	VAV CONTROLS POWER	--	20 A	1					1000 VA	0 VA	1	20 A	--	SPARE	24
25	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	26
27	SPARE	--	20 A	1			0 VA	0 VA			2	15 A	--	SPARE	28
29	SPARE	--	20 A	1					0 VA	0 VA					30
31	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	32
33	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	34
35	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	36
37	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	38
39	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	40
41	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	42
			TOTAL LOAD:		5836 VA		5643 VA		5639 VA						
			TOTAL AMPS:		49 A		47 A		47 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
MEQ-NC	3180 VA	100.00%	3180 VA	CONNECTED LOAD:	17118 VA
PWR-C	3800 VA	125.00%	4750 VA	CONNECTED CURRENT:	48 A
Spare	2000 VA	100.00%	2000 VA	DEMAND LOAD:	19714 VA
MTR	2729 VA	110.77%	3023 VA	DEMAND CURRENT:	55 A
MEQ-C	5409 VA	125.00%	6761 VA	CONSIDER 125% DEMAND:	24643 A
				EQUIPMENT AMPS:	150 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	63 %
					95 A

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

NOVANT HEALTH

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CONSTRUCTION DOCUMENTS

Novant ASC Leland

9/19/2024 11:28:51 AM

ISSUE FOR:
CONSTRUCTION DOCUMENTS

REVISIONS:

Revision Number	Revision Description	Revision Date
1	ADDENDUM 1	05/21/2024
2	MODIFICATION 2	09/19/2024

ISSUE: 05/21/2024 DRAWN BY: SUB
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SES PROJECT # 22354

Novant ASC Leland

SHEET NAME
ELECTRICAL PANEL SCHEDULES - GENERATOR

SHEET NUMBER
E702

Autodesk Docs://Novant ASC Leland/22354_Novant Brunswick ASC_SES_2022.rvt
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LIGHTING PANEL: ISO-ORC1

LOCATION: OPERATING ROOM 128 | VOLTS: ISO 120V | MAINS TYPE: MCB
SUPPLY FROM: 1CL1 | PHASES: 1 | MCB/MLO RATING: 83 A
BRANCH: CRITICAL | WIRES: 3 | MCB OPTIONS: NONE
SERVICE RATED: No | INTEGRAL SPD: No | SECTIONS: 1
MOUNTING: RECESSED | AVAILABLE SCC (kA): <10 | PANEL POLES: 16
NEMA ENCLOSURE: 1 (STAINLESS STEEL...

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A		B		POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	COLUMN / OPERATING ROOM...		20 A	1	360 VA	1200 VA			1	20 A		DAVINCI PATIENT CART	2
3	COLUMN / OPERATING ROOM...		20 A	1			360 VA	1500 VA	1	20 A		DAVINCI VISION CART	4
5	COLUMN / OPERATING ROOM...		20 A	1	360 VA	1000 VA			1	20 A		DAVINCI SURGEON CONS	6
7	LTG BOOM OPERATING ROOM...		20 A	1			500 VA	840 VA	1	20 A		TABLE /OPERATING ROOM 128	8
9	LTG BOOM OPERATING ROOM...		20 A	1	500 VA	720 VA			1	20 A		REC OPERATING ROOM 128	10
11	VIDEO POWER ARM OR 128		20 A	1			720 VA	500 VA	1	20 A		REC OPERATING ROOM 128	12
13	REC OPERATING ROOM 128		20 A	1	1080 VA	660 VA			1	20 A		REC OPERATING ROOM 128	14
15	REC OPERATING ROOM 128		20 A	1			660 VA	1725 VA	1	20 A		ANESTHESIA MACHINE...	16
				TOTAL LOAD:	5880 VA		6805 VA						
				TOTAL AMPS:	57 A		64 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTG	1000 VA	125.00%	1250 VA	CONNECTED LOAD:	12685 VA
PWR-C	1140 VA	125.00%	1425 VA	CONNECTED CURRENT:	61 A
REC	8745 VA	100.00%	8745 VA	DEMAND LOAD:	13220 VA
PWR-NC	1800 VA	100.00%	1800 VA	DEMAND CURRENT:	64 A
				CONSIDER 125% DEMAND:	16525 A
				EQUIPMENT AMPS:	83 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	23 %
					19 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

LIGHTING PANEL: ISO-ORN1

LOCATION: OPERATING ROOM 128 | VOLTS: ISO 120V | MAINS TYPE: MCB
SUPPLY FROM: 1NH1 | PHASES: 1 | MCB/MLO RATING: 83 A
BRANCH: NORMAL | WIRES: 3 | MCB OPTIONS: NONE
SERVICE RATED: No | INTEGRAL SPD: No | SECTIONS: 1
MOUNTING: RECESSED | AVAILABLE SCC (kA): <10 | PANEL POLES: 16
NEMA ENCLOSURE: 1 (STAINLESS STEEL...

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A		B		POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	HYPERTHERMIA /OPERATING...		20 A	1	1173 VA	0 VA			1	20 A	--	SPARE	2
3	COLUMN / OPERATING ROOM...		20 A	1			540 VA	0 VA	1	20 A	--	SPARE	4
5	COLUMN / OPERATING ROOM...		20 A	1	540 VA	0 VA			1	20 A	--	SPARE	6
7	REC OPERATING ROOM 128		20 A	1			1080 VA	0 VA	1	20 A	--	SPARE	8
9	REC OPERATING ROOM 128		20 A	1	1080 VA	0 VA			1	20 A	--	SPARE	10
11	ANESTHESIA CART /OPERATIN...		20 A	1			360 VA	0 VA	1	20 A	--	SPARE	12
13	WASTE DISPOSAL /OPERATING...		20 A	1	570 VA	0 VA			1	20 A	--	SPARE	14
15	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	16
				TOTAL LOAD:	3363 VA		1980 VA						
				TOTAL AMPS:	31 A		19 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
REC	2160 VA	100.00%	2160 VA	CONNECTED LOAD:	5343 VA
PWR-NC	3183 VA	100.00%	3183 VA	CONNECTED CURRENT:	26 A
				DEMAND LOAD:	5343 VA
				DEMAND CURRENT:	26 A
				CONSIDER 125% DEMAND:	6679 A
				EQUIPMENT AMPS:	83 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	69 %
					57 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

LIGHTING PANEL: ISO-LASER

LOCATION: CORRIDOR 136 | VOLTS: ISO 208V | MAINS TYPE: MCB
SUPPLY FROM: 1CL1 | PHASES: 1 | MCB/MLO RATING: 48 A
BRANCH: CRITICAL | WIRES: 3 | MCB OPTIONS: NONE
SERVICE RATED: No | INTEGRAL SPD: No | SECTIONS: 1
MOUNTING: RECESSED | AVAILABLE SCC (kA): <10 | PANEL POLES: 16
NEMA ENCLOSURE: 1 (STAINLESS STEEL...

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A		B		POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	LASER OPERATING ROOM 137		30 A	2	2500 VA	0 VA			2	30 A	--	LASER PROCEDURE ROOM 140	2
3							2500 VA	0 VA					4
5	LASER OPERATING ROOM 141	--	30 A	2	0 VA	0 VA			2	30 A		LASER PROCEDURE ROOM 144	6
7							0 VA	0 VA					8
9													10
11													12
13	SPARE	--	30 A	2	0 VA	0 VA			2	30 A	--	SPARE	14
15							0 VA	0 VA					16
				TOTAL LOAD:	2500 VA		2500 VA						
				TOTAL AMPS:	24 A		24 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED LOAD:	5000 VA
				CONNECTED CURRENT:	24 A
				DEMAND LOAD:	6250 VA
				DEMAND CURRENT:	30 A
				CONSIDER 125% DEMAND:	7813 A
				EQUIPMENT AMPS:	48 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	37 %
					18 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

LIGHTING PANEL: ISO-ORC2

LOCATION: PROCEDURE ROOM 132 | VOLTS: ISO 120V | MAINS TYPE: MCB
SUPPLY FROM: 1CH1 | PHASES: 1 | MCB/MLO RATING: 83 A
BRANCH: CRITICAL | WIRES: 3 | MCB OPTIONS: NONE
SERVICE RATED: No | INTEGRAL SPD: No | SECTIONS: 1
MOUNTING: RECESSED | AVAILABLE SCC (kA): <10 | PANEL POLES: 16
NEMA ENCLOSURE: 1 (STAINLESS STEEL...

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A		B		POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	COLUMN / OPERATING ROOM...	--	20 A	1	360 VA	1200 VA			1	20 A	--	DAVINCI PATIENT CART	2
3	COLUMN / OPERATING ROOM...	--	20 A	1			360 VA	1500 VA	1	20 A	--	DAVINCI VISION CART	4
5	COLUMN / OPERATING ROOM...	--	20 A	1	360 VA	1000 VA			1	20 A	--	DAVINCI SURGEON CONS	6
7	LTG BOOM OPERATING ROOM...	--	20 A	1			500 VA	840 VA	1	20 A	--	TABLE /OPERATING ROOM 132	8
9	LTG BOOM OPERATING ROOM...	--	20 A	1	500 VA	720 VA			1	20 A	--	REC OPERATING ROOM 132	10
11	VIDEO POWER ARM OR 132	--	20 A	1			720 VA	500 VA	1	20 A	--	REC OPERATING ROOM 132	12
13	REC OPERATING ROOM 132	--	20 A	1	1080 VA	660 VA			1	20 A	--	REC OPERATING ROOM 132	14
15	REC OPERATING ROOM 132	--	20 A	1			660 VA	1725 VA	1	20 A	--	ANESTHESIA MACHINE...	16
				TOTAL LOAD:	5880 VA		6805 VA						
				TOTAL AMPS:	57 A		64 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Spare	12685 VA	100.00%	12685 VA	CONNECTED LOAD:	12685 VA
				CONNECTED CURRENT:	61 A
				DEMAND LOAD:	12685 VA
				DEMAND CURRENT:	61 A
				CONSIDER 125% DEMAND:	15856 A
				EQUIPMENT AMPS:	83 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	26 %
					22 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

LIGHTING PANEL: ISO-ORN2

LOCATION: PROCEDURE ROOM 132 | VOLTS: ISO 120V | MAINS TYPE: MCB
SUPPLY FROM: 1NH1 | PHASES: 1 | MCB/MLO RATING: 83 A
BRANCH: NORMAL | WIRES: 3 | MCB OPTIONS: NONE
SERVICE RATED: No | INTEGRAL SPD: No | SECTIONS: 1
MOUNTING: RECESSED | AVAILABLE SCC (kA): <10 | PANEL POLES: 16
NEMA ENCLOSURE: 1 (STAINLESS STEEL...

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A		B		POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	HYPERTHERMIA /OPERATING...	--	20 A	1	1173 VA	0 VA			1	20 A	--	SPARE	2
3	COLUMN / OPERATING ROOM...	--	20 A	1			540 VA	0 VA	1	20 A	--	SPARE	4
5	COLUMN / OPERATING ROOM...	--	20 A	1	540 VA	0 VA			1	20 A	--	SPARE	6
7	REC OPERATING ROOM 132	--	20 A	1			1080 VA	0 VA	1	20 A	--	SPARE	8
9	REC OPERATING ROOM 132	--	20 A	1	1080 VA	0 VA			1	20 A	--	SPARE	10
11	ANESTHESIA CART /OPERATIN...	--	20 A	1			360 VA	0 VA	1	20 A	--	SPARE	12
13	WASTE DISPOSAL /OPERATING...	--	20 A	1	570 VA	0 VA			1	20 A	--	SPARE	14
15	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	16
				TOTAL LOAD:	3363 VA		1980 VA						
				TOTAL AMPS:	31 A		19 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Spare	5343 VA	100.00%	5343 VA	CONNECTED LOAD:	5343 VA
				CONNECTED CURRENT:	26 A
				DEMAND LOAD:	5343 VA
				DEMAND CURRENT:	26 A
				CONSIDER 125% DEMAND:	6679 A
				EQUIPMENT AMPS:	83 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	69 %
					57 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

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LIGHTING PANEL: ISO-PRON1

LOCATION: PROCEDURE ROOM 144 | VOLTS: ISO 120V | MAINS TYPE: MCB
SUPPLY FROM: 1NH1 | PHASES: 1 | MCB/MLO RATING: 83 A
BRANCH: NORMAL | WIRES: 3 | MCB OPTIONS: NONE
SERVICE RATED: No | INTEGRAL SPD: No | SECTIONS: 1
MOUNTING: RECESSED | AVAILABLE SCC (kA): <10 | PANEL POLES: 16
NEMA ENCLOSURE: 1 (STAINLESS STEEL...

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A		B		POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	HYPERTHERMIA PROC 144	--	20 A	1	1173 VA	0 VA			1	20 A	--	SPARE	2
3	COLUMN PROC 144	--	20 A	1			540 VA	0 VA	1	20 A	--	SPARE	4
5	COLUMN PROC 144	--	20 A	1	540 VA	0 VA			1	20 A	--	SPARE	6
7	REC PROCEDURE 144	--	20 A	1			1080 VA	0 VA	1	20 A	--	SPARE	8
9	REC PROCEDURE 144	--	20 A	1	1080 VA	0 VA			1	20 A	--	SPARE	10
11	ANESTHESIA CART PROC 144	--	20 A	1			360 VA	0 VA	1	20 A	--	SPARE	12
13	WASTE DISPOSAL PROC 144	--	20 A	1	570 VA	0 VA			1	20 A	--	SPARE	14
15	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	16
				TOTAL LOAD:	3363 VA		1980 VA						
				TOTAL AMPS:	31 A		19 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Spare	5343 VA	100.00%	5343 VA	CONNECTED LOAD:	5343 VA
				CONNECTED CURRENT:	26 A
				DEMAND LOAD:	5343 VA
				DEMAND CURRENT:	26 A
				CONSIDER 125% DEMAND:	6679 A
				EQUIPMENT AMPS:	83 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	69 %
					57 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

LIGHTING PANEL: ISO-PROC1

LOCATION: PROCEDURE ROOM 144 | VOLTS: ISO 120V | MAINS TYPE: MCB
SUPPLY FROM: 1CL1 | PHASES: 1 | MCB/MLO RATING: 83 A
BRANCH: CRITICAL | WIRES: 3 | MCB OPTIONS: NONE
SERVICE RATED: No | INTEGRAL SPD: No | SECTIONS: 1
MOUNTING: RECESSED | AVAILABLE SCC (kA): <10 | PANEL POLES: 16
NEMA ENCLOSURE: 1 (STAINLESS STEEL...

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A		B		POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	COLUMN - PROC 144	--	20 A	1	360 VA	1200 VA			1	20 A	--	DA VINCI PATENT CART	2
3	COLUMN - PROC 144	--	20 A	1			360 VA	1500 VA	1	20 A	--	DA VINCI VISION CART	4
5	COLUMN - PROC 144	--	20 A	1	360 VA	1000 VA			1	20 A	--	DA VINSI SURGEION CONS	6
7	LIGHTING BOOM - PROC 144	--	20 A	1			500 VA	840 VA	1	20 A	--	TABLE - PROC 144	8
9	LIGHTING BOOM - PROC 144	--	20 A	1	500 VA	720 VA			1	20 A	--	REC PROCEDURE 144	10
11	VIDEO POWER ARM - PROC 144	--	20 A	1			720 VA	500 VA	1	20 A	--	REC PROCEDURE 144	12
13	REC PROCEDURE 144	--	20 A	1	1080 VA	660 VA			1	20 A	--	REC PROCEDURE 144	14
15	REC PROCEDURE 144	--	20 A	1			660 VA	1725 VA	1	20 A	--	ANESTHESIA MACHINE PROC...	16
				TOTAL LOAD:	5880 VA		6805 VA						
				TOTAL AMPS:	57 A		64 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Spare	12685 VA	100.00%	12685 VA	CONNECTED LOAD:	12685 VA
				CONNECTED CURRENT:	61 A
				DEMAND LOAD:	12685 VA
				DEMAND CURRENT:	61 A
				CONSIDER 125% DEMAND:	15856 A
				EQUIPMENT AMPS:	83 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	26 %
					22 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

LIGHTING PANEL: ISO-PROC2

LOCATION: PROCEDURE ROOM 140 | VOLTS: ISO 120V | MAINS TYPE: MCB
SUPPLY FROM: 1CL1 | PHASES: 1 | MCB/MLO RATING: 83 A
BRANCH: CRITICAL | WIRES: 3 | MCB OPTIONS: NONE
SERVICE RATED: No | INTEGRAL SPD: No | SECTIONS: 1
MOUNTING: RECESSED | AVAILABLE SCC (kA): <10 | PANEL POLES: 16
NEMA ENCLOSURE: 1 (STAINESS STEEL COVER)

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A		B		POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	COLUMN - PROC 140	--	20 A	1	360 VA	1200 VA			1	20 A	--	DA VINCI PATIENT CART	2
3	COLUMN - PROC 140	--	20 A	1			360 VA	1500 VA	1	20 A	--	DA VINCI VISION CART	4
5	COLUMN - PROC 140	--	20 A	1	360 VA	1000 VA			1	20 A	--	DA VINCI SURGEION CONS	6
7	LTG BOOM PROC 140	--	20 A	1			500 VA	840 VA	1	2 A	--	TABLE PROCEDURE 140	8
9	LTG BOOM PROC 140	--	20 A	1	500 VA	720 VA			1	20 A	--	REC PROCEDURE 140	10
11	VIDEO POWER ARM PROC 140	--	20 A	1			720 VA	500 VA	1	20 A	--	REC PROCEDURE 140	12
13	REC PROCEDURE 140	--	20 A	1	1080 VA	660 VA			1	20 A	--	REC PROCEDURE 140	14
15	REC PROCEDURE 140	--	20 A	1			660 VA	1725 VA	1	20 A	--	ANESTHESIA MACHINE PROC...	16
				TOTAL LOAD:	5880 VA		6805 VA						
				TOTAL AMPS:	57 A		64 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Spare	12685 VA	100.00%	12685 VA	CONNECTED LOAD:	12685 VA
				CONNECTED CURRENT:	61 A
				DEMAND LOAD:	12685 VA
				DEMAND CURRENT:	61 A
				CONSIDER 125% DEMAND:	15856 A
				EQUIPMENT AMPS:	83 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	26 %
					22 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

LIGHTING PANEL: ISO-PRON2

LOCATION: PROCEDURE ROOM 140 | VOLTS: ISO 120V | MAINS TYPE: MCB
SUPPLY FROM: 1NH1 | PHASES: 1 | MCB/MLO RATING: 83 A
BRANCH: NORMAL | WIRES: 3 | MCB OPTIONS: NONE
SERVICE RATED: No | INTEGRAL SPD: No | SECTIONS: 1
MOUNTING: RECESSED | AVAILABLE SCC (kA): <10 | PANEL POLES: 16
NEMA ENCLOSURE: 1 (STAINLESS STEEL...

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A		B		POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	HYPERTHERMIA PROC 140	--	20 A	1	1173 VA	0 VA			1	20 A	--	SPARE	2
3	COLUMN PROC 140	--	20 A	1			540 VA	0 VA	1	20 A	--	SPARE	4
5	COLUMN PROC 140	--	20 A	1	540 VA	0 VA			1	20 A	--	SPARE	6
7	REC PROCEDURE 140	--	20 A	1			1080 VA	0 VA	1	20 A	--	SPARE	8
9	REC PROCEDURE 140	--	20 A	1	1080 VA	0 VA			1	20 A	--	SPARE	10
11	ANESTHESIA CART PROC 140	--	20 A	1			360 VA	0 VA	1	20 A	--	SPARE	12
13	WASTE DISPOSAL PROC 140	--	20 A	1	570 VA	0 VA			1	20 A	--	SPARE	14
15	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	16
				TOTAL LOAD:	3363 VA		1980 VA						
				TOTAL AMPS:	31 A		19 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Spare	5343 VA	100.00%	5343 VA	CONNECTED LOAD:	5343 VA
				CONNECTED CURRENT:	26 A
				DEMAND LOAD:	5343 VA
				DEMAND CURRENT:	26 A
				CONSIDER 125% DEMAND:	6679 A
				EQUIPMENT AMPS:	83 A
				FEEDER AVAILABLE:	
				SPARE CAPACITY:	69 %
					57 A

OPTIONS:

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

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CONSTRUCTION DOCUMENTS

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SHEET NAME
ELECTRICAL PANEL SCHEDULES - ISOLATED POWER

SHEET NUMBER
E703

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