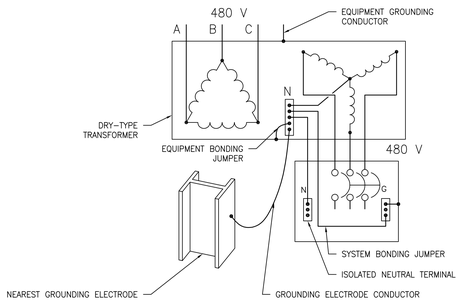
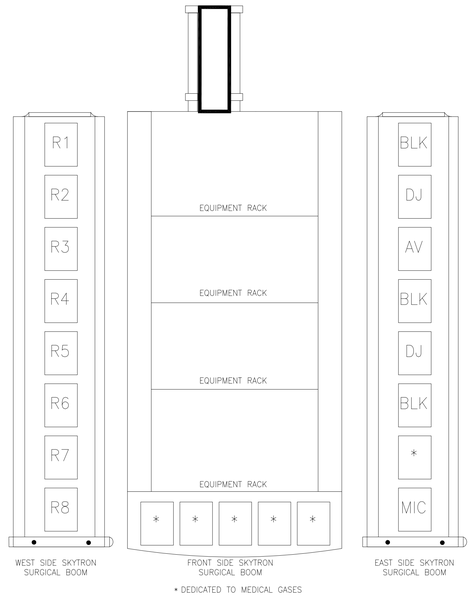


NOTE:
1. IF A SEPARATELY DERIVED SYSTEM IS REQUIRED TO BE GROUNDED, THE CONDUCTOR TO BE GROUNDED IS ALLOWED TO BE CONNECTED TO THE GROUNDING ELECTRODE SYSTEM AT ANY LOCATION BETWEEN THE SOURCE TERMINALS (TRANSFORMER, GENERATOR, ETC.) & THE 1ST DISCONNECTING MEANS OR OVER-CURRENT DEVICE. THE LOCATION OF THE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE GROUNDED CONDUCTOR MUST BE AT THE POINT AT WHICH THE BONDING JUMPER IS CONNECTED TO THE GROUNDED CONDUCTOR. BY ESTABLISHING A COMMON POINT OF CONNECTION, NORMAL NEUTRAL CURRENT WILL BE CARRIED ONLY ON THE SYSTEM GROUNDED CONDUCTOR. METAL RACEWAYS, PIPING SYSTEMS, & STRUCTURAL STEEL MUST NOT PROVIDE A PARALLEL CIRCUIT FOR NEUTRAL CURRENT.

1 GROUNDING ELECTRODE CONDUCTOR, SINGLE SEPARATELY DERIVED SYSTEM CONNECTION

SCALE: N.T.S.



FRONT VIEW

2 SKYTRON EQUIPMENT CARRIER WITH 4 ADJUSTABLE EQUIPMENT SHELVES TO BE RELOCATED TO NEW OR No. 6 3B-136.

SCALE: SCHEMATIC

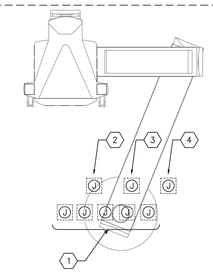
DEVICE AND ACCESSORY CHART POSITION FOR SKYTRON 360 D SURGICAL BOOM WITH VST MONITOR AND 4 ADJUSTABLE EQUIPMENT SHELVES

BOOM SIDE	DESCRIPTION	CIRCUIT NUMBER	PANEL NAME	REMARKS
R1	DUPLEX RECEPTACLE – RED HOSPITAL GRADE 20 AMP	DEDICATED (1)	IPU-OR#-B	"#" INDICATES OPERATING ROOM NUMBER. (I.E. OR1, OR2, ETC.)
R2	DUPLEX RECEPTACLE – RED HOSPITAL GRADE 20 AMP	DEDICATED (1)	IPU-OR#-B	"#" INDICATES OPERATING ROOM NUMBER. (I.E. OR1, OR2, ETC.)
R3	DUPLEX RECEPTACLE – RED HOSPITAL GRADE 20 AMP	DEDICATED (2)	IPU-OR#-B	"#" INDICATES OPERATING ROOM NUMBER. (I.E. OR1, OR2, ETC.)
R4	DUPLEX RECEPTACLE – RED HOSPITAL GRADE 20 AMP	DEDICATED (2)	IPU-OR#-B	"#" INDICATES OPERATING ROOM NUMBER. (I.E. OR1, OR2, ETC.)
R5	DUPLEX RECEPTACLE – RED HOSPITAL GRADE 20 AMP	DEDICATED (3)	IPU-OR#-B	"#" INDICATES OPERATING ROOM NUMBER. (I.E. OR1, OR2, ETC.)
R6	DUPLEX RECEPTACLE – RED HOSPITAL GRADE 20 AMP	DEDICATED (3)	IPU-OR#-B	"#" INDICATES OPERATING ROOM NUMBER. (I.E. OR1, OR2, ETC.)
R7	DUPLEX RECEPTACLE – RED HOSPITAL GRADE 20 AMP	DEDICATED (4)	IPU-OR#-B	"#" INDICATES OPERATING ROOM NUMBER. (I.E. OR1, OR2, ETC.)
R8	DUPLEX RECEPTACLE – RED HOSPITAL GRADE 20 AMP	DEDICATED (4)	IPU-OR#-B	"#" INDICATES OPERATING ROOM NUMBER. (I.E. OR1, OR2, ETC.)
DJ	TELEPHONE/DATA OUTLET 4 JACK		19" EXISTING TELECOM RACK	SEE DWG 3/E5.03 FOR TELEPHONE-DATA OUTLET DETAIL
AV	AUDIO/VIDEO OUTLET			PRIOR ANY INSTALLATION, E.C. TO CONFIRM CONNECTORS TYPE THAT SUPPORT VIDEO, AUDIO, CONTROL, VOICE AND DATA CONNECTORS AS WELL AS VGA LINE DRIVERS, AUDIO BUFFERS, AND TWISTED PAIR TRANSMITTERS AS REQUESTED BY VA AND SKYTRON EQUIPMENT.
MIC	AUDIO/MICROPHONE OUTLET			PRIOR ANY INSTALLATION, E.C. TO CONFIRM PIN NUMBER FOR THE TYPE / MODEL NUMBER OF THE MICROPHONE OUTLET.

SKYTRON to provide a prewired surgical boom. All conduit, wiring, and other electrical materials as well as installation labor for such materials associated with the installation of the SKYTRON surgical light to be provided by Electrical Contractor. All installations of SKYTRON surgical lights should be under the direct supervision of a SKYTRON representative. All wiring to be in accordance with local codes.

GENERAL SURGICAL BOOM NOTES:

1. ALL RECEPTACLES IN COLUMNS AND BOOMS SHALL BE PREWIRED TO JUNCTION BOXES LOCATED AT TOP OF COLUMN.
2. ALL CIRCUITS SHALL CONTAIN SEPARATE PHASE AND NEUTRAL CONDUCTORS. COMBINING OF THREE CIRCUITS WITH A COMMONNEUTRAL IS NOT PERMITTED.
3. ELECTRICAL CONTRACTOR TO ENGRAVE THE PROPER PANEL AND CIRCUIT NUMBER INTO RECEPTACLE FACEPLATES.
4. PROVIDE ADDITIONAL PATHWAYS FOR NURSE CALL AND DATA/TELECOMMUNICATIONS WIRING.
5. COLUMNS AND BOOMS ARE FURNISHED BY OWNER FOR INSTALLATION BY CONTRACTOR.
6. ALL INTERNAL WIRING SHALL UTILIZE LOW LEAKAGE XHHW-2, 600V INSULATION.



CEILING VIEW

CEILING VIEW NOTES FOR SKYTRON 360 D SURGICAL BOOM WITH VST MONITOR AND 4 ADJUSTABLE EQUIPMENT SHELVES

NOTE NUMBER	DESCRIPTION
1	PROVIDE 2#10, 1#10 GND, 3/4"C FOR EACH SET OF 120VAC CIRCUITS FROM SURGICAL BOOM TO ISOLATION PANEL IPU-OR#-B
2	PROVIDE (1) 1-1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE ABOVE BOOM TO TELECOM ROOM IN ORDER TO EXTEND COMMUNICATION CABLE ROUTING.
3	PROVIDE (1) 1-1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE ABOVE BOOM FOR AUDIO/VIDEO WIRING ROUTING.
4	PROVIDE (1) 1" CONDUIT FROM ACCESSIBLE CEILING SPACE ABOVE BOOM FOR MONITOR WIRING ROUTING.

REFER TO ARCHITECTURAL DRAWINGS IN ORDER TO IDENTIFY THE EXISTING SURGICAL EQUIPMENT BOOM TO BE RELOCATED IN NEW OPERATING ROOMS AS FOLLOWS:

* P2 A1.0 PHASING NOTES: REFER TO NOTES FOR SURGICAL EQUIPMENT TO BE REUSED IN NEW OPERATING ROOMS 3B-135 (OR-1), 3B-137 (OR-2) , AND 3B-139 (OR-3).

* P3 A1.0 PHASING NOTES: REFER TO NOTES FOR SURGICAL EQUIPMENT TO BE REUSED IN NEW OPERATING ROOM 3B-140 (OR-4).

* P4 A1.0 PHASING NOTES: REFER TO NOTES FOR SURGICAL EQUIPMENT TO BE REUSED IN NEW PAIN MANAGEMENT ROOM 3B-166.

* P4 A1.0 PHASING NOTES: REFER TO NOTES FOR SURGICAL EQUIPMENT TO BE REUSED IN NEW OPERATING ROOM 3B-136 (OR-6).

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

MILLER-REMICK LLC PROFESSIONAL ENGINEER

THOMAS L. CHAMPION
No. 21470
STATE OF NEW JERSEY
PROFESSIONAL ENGINEER

ARCHITECT / ENGINEERS:

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Drawing Title: ELECTRICAL O.R. DETAILS AND PAIN MANAGEMENT BOOM

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Location: HUNTINGTON, WV

Date: 01-15-2016 | Checked: MC | Drawn: DR

Project Number: 581-13-101

Building Number: 1S

Drawing Number: E5.13

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

FEEDER SCHEDULE	
FEEDER NO.	FEEDER AND CONDUIT SIZE
1	4-#1 + 1-#8G IN 1 1/2" C.
2	4-#4/0 + 1-#4G IN 2 1/2" C.
3	4-#4 + 1-#10G IN 1 1/2" C.
4	3-#12 + 1-#12G IN 3/4" C.
5	3-#4 + 1-#10G IN 1" C.
6	4-#1 + 1-#8G IN 1 1/2" C.
7	4-#6 + 1-#10G IN 1" C.

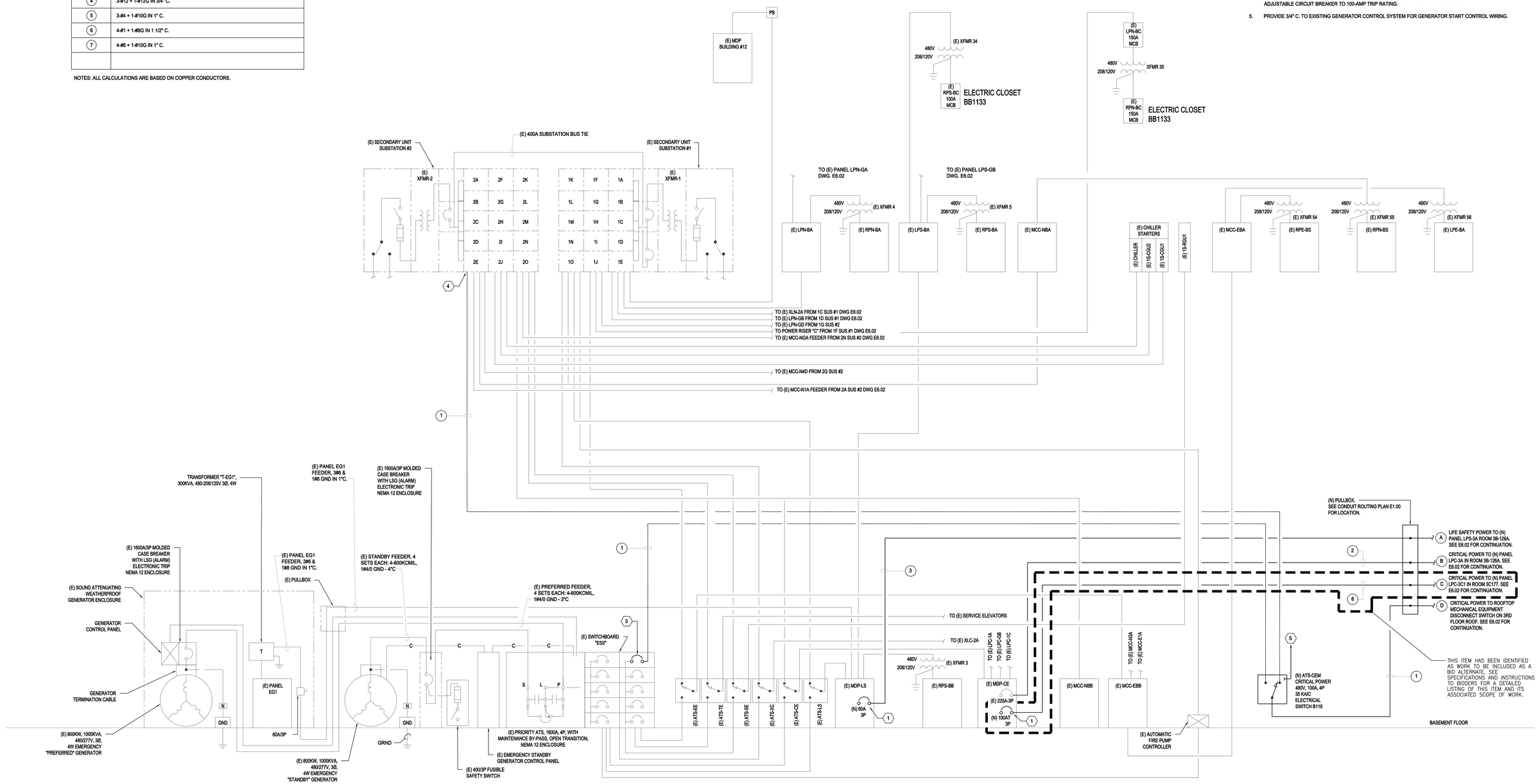
NOTES: ALL CALCULATIONS ARE BASED ON COPPER CONDUCTORS.

GENERAL SHEET NOTES:

1. REFER TO DRAWING E0.01 AND E0.02 FOR NOTES, SYMBOLS & ABBREVIATIONS.
2. ALL NEW WORK SHALL BE DONE IN PHASE 1, UNLESS OTHERWISE NOTED.

SHEET KEYNOTES:

1. PROVIDE AND INSTALL NEW CIRCUIT BREAKER IS EXISTING SPACE. BREAKER TO MATCH EXISTING CIRCUIT BREAKER'S TYPE, A.I.C. RATING AND MANUFACTURER.
2. NOT USED.
3. PROVIDE NEW 100-AMPERE CIRCUIT BREAKER INTO EXISTING SQUARE D SWITCHBOARD. MATCH EXISTING CIRCUIT BREAKER'S TYPE, A.I.C. RATING AND MANUFACTURER.
4. CONNECT FEEDER TO EXISTING 225-AMPERE CIRCUIT BREAKER IN SUBSTATION #2 SECTION 2-O. SET ADJUSTABLE CIRCUIT BREAKER TO 100-AMP TRIP RATING.
5. PROVIDE 3/4" C. TO EXISTING GENERATOR CONTROL SYSTEM FOR GENERATOR START CONTROL WIRING.



100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

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THOMAS L. PEARMAN, JR. LICENSED PROFESSIONAL ENGINEER 16341 STATE OF VIRGINIA

ARCHITECT / ENGINEERS:

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www.pfa-architect.com

Drawing Title: ELECTRICAL SINGLE LINE

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Location: HUNTINGTON, WV

Date: 01-15-2016 | Checked: MC | Drawn: MB

Project Number: 581-13-101

Building Number: 1S

Drawing Number: E6.01

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

FEEDER SCHEDULE	
FEEDER NO.	FEEDER AND CONDUIT SIZE
1	4-#1 + 1-#8G IN 1 1/2" C.
2	4-#4/0 + 1-#4G IN 2 1/2" C.
3	4-#4 + 1-#10G IN 1 1/2" C.
4	3-#10 + 1-#10G IN 3/4" C.
5	3-#4 + 1-#8G IN 1" C.
6	4-#1/0 + 1-#6G IN 2" C.
7	4-#6 + 1-#10G IN 1" C.

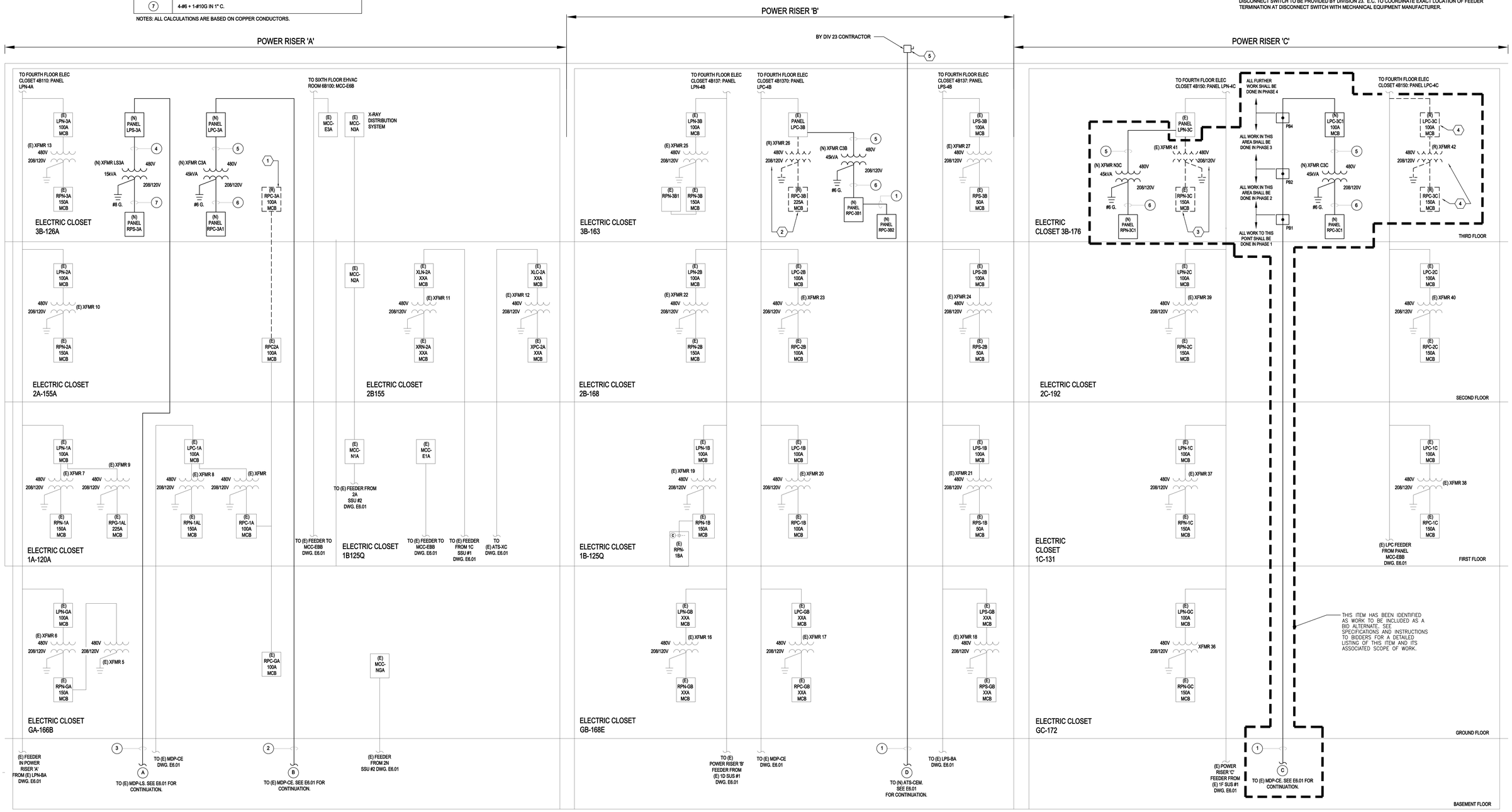
NOTES: ALL CALCULATIONS ARE BASED ON COPPER CONDUCTORS.

GENERAL SHEET NOTES:

1. REFER TO DRAWING E0.01 AND E0.02 FOR NOTES, SYMBOLS & ABBREVIATIONS.
2. ALL NEW WORK SHALL BE DONE IN PHASE 1, UNLESS OTHERWISE NOTED.

SHEET KEYNOTES:

1. PANEL RPC-3A AND ASSOCIATED FEEDER SHALL BE DEMOLISHED IN PHASE 4. ALL REMAINING CIRCUITS CONNECTED TO PANEL RPC-3A SHALL BE SPLICED AND EXTENDED TO NEW PANEL RPC-3A1 IN PHASE 4.
2. TRANSFORMER 26, INCLUDING PRIMARY & SECONDARY FEEDERS TO TRANSFORMER, AND PANEL RPC-3B PANEL SHALL BE DEMOLISHED IN PHASE 4. ALL REMAINING CIRCUITS CONNECTED TO PANEL RPC-3B SHALL BE SPLICED AND EXTENDED TO NEW PANEL RPC-3B1.
3. TRANSFORMER 41, INCLUDING PRIMARY & SECONDARY FEEDERS TO TRANSFORMER, AND PANEL RPN-3C PANEL SHALL BE DEMOLISHED IN PHASE 4. ALL REMAINING CIRCUITS CONNECTED TO PANEL RPN-3C SHALL BE SPLICED AND EXTENDED TO NEW PANEL RPN-3C1.
4. PANEL LPC-3C, TRANSFORMER 42, INCLUDING PRIMARY & SECONDARY FEEDERS TO TRANSFORMER, AND PANEL RPC-3C PANEL SHALL BE DEMOLISHED IN PHASE 4. ALL REMAINING CIRCUITS CONNECTED TO PANELS LPC-3C AND RPC-3C SHALL BE SPLICED AND EXTENDED TO NEW PANELS LPC-3C1 AND RPN-3C1 RESPECTIVELY.
5. E.C. TO PROVIDE CONDUIT AND WIRE TO NEW ROOFTOP MECHANICAL EQUIPMENT DISCONNECT SWITCH. DISCONNECT SWITCH TO BE PROVIDED BY DIVISION 23. E.C. TO COORDINATE EXACT LOCATION OF FEEDER TERMINATION AT DISCONNECT SWITCH WITH MECHANICAL EQUIPMENT MANUFACTURER.



100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

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ARCHITECT / ENGINEERS:

Miller-Remick LLC
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Drawing Title: ELECTRICAL SINGLE LINE

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Location: HUNTINGTON, WV

Date: 01-15-2016 | Checked: MC | Drawn: MB

Project Number: 581-13-101

Building Number: 1S

Drawing Number: E6.02

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

Panel Name: LPN-3A — Existing Panel
Panel Voltage: 480Y/277V, 3 Phase, 4 Wire
Main Lugs Only: ____ Main Breaker: 100
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
EX	1	EXISTING LTS - MECH	1	20								20	1	EXISTING LOAD	2	EX
EX	3	EXISTING LTS - 3B127 THRU 3B132 & C3-9	1	20								20	1	EXISTING LOAD	4	EX
EX	5	EXISITNG LOAD	1	20								20	1	EXISTING LOAD	6	EX
N	7	LTS - PHASE 1 & 2 - SEE NOTE 1	1	20	L	140	1132			992		20	1	LTS - CORRIDORS - SEE NOTE 1	8	N
N	9	LTS - PHASE 1 & 2 - SEE NOTE 1	1	20		1710		4627		2917		20	1	LTS - PHASE 2 & 3 - SEE NOTE 1	10	N
N	11	LTS - CORRIDORS - SEE NOTE 1	1	20		980			1800	820		20	1	LTS - PHASE 6 - SEE NOTE 1	12	N
	13					15000	15000								14	
EX	15	TRANSFORMER FEED FOR RPN-3A	3	70	REC	15000		15000				20	3	SPARE	16	N
	17					15000			15000						18	

Total Connected Load: 16132 | 19627 | 16800 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	7559	1.25	9449
Receptacles (REC)	45000	0.61	27500
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	52559		36949 VA

ELECTRICAL DATA
Total Conn. Load: 53 KVA
Total Conn. Load: 63 Amps
Total Demand Load: 37 KVA
Total Demand Load: 44 Amps
Main Bus Size: 100 Amps

PANEL LEGEND (ID)
ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION
Location: ELEC. CLOSET 3B-126A
Mounting: Surface Enclosure Type: Nema 1
Fed From: LPN-BA
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES
NOTE 1 - PROVIDE NEW 20A/1P CIRCUIT BREAKER. MATCH (E) AIC RATING AND TYPE OF (E) CIRCUIT BREAKERS.

Panel Name: RPN-3A — Existing Panel
Panel Voltage: 208Y/120V, 3 Phase, 4 Wire
Main Lugs Only: ____ Main Breaker: 150
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
EX	1	RECS; WOMEN'S LOCKER ROOM 3B-129	1	20	REC	720	1800			1080	REC	20	1	REC; LOUNGE 3B-131	2	EX
EX	3	RECS; MEN'S LOCKER ROOM 3B-129	1	20	REC	720		1800		1080	REC	20	1	REC; LOUNGE 3B-131	4	EX
EX	5	RECS; VESTIBULE 3B-131A AND LOUNGE 3B-131	1	20	REC	900			900			20	1	RECS; MECH ROOM WEST	6	EX
EX	7	RECS; SEMI-RESTRICTED CORRIDOR C3-10	1	20	REC	1260	1260					20	1	RECS; MECH ROOM EAST	8	EX
EX	9	REC; REFRIGERATOR LOUNGE 3B-131	1	20	REF	1080		1080				20	1	TEMP CONTROL POWER	10	EX
EX	11	REC; COUNTER LOUNGE 3B-131	1	20	REF	180			180			20	1	UNIT HEATER IS-SUH3	12	EX
EX	13	EXISTING UNIT HEATER	1	20								20	1	EXISTING AC-8 & 10 UNIT, REC & LTS	14	EX
EX	15	EXISTING LOAD	1	20								20	1	EXISTING AC-8 & 10 UV LTS	16	EX
EX	17	EXISTING LOAD	1	20								20	1	EXISTING LOAD	18	EX
EX	19	EXISTING LOAD	1	20								20	1	EXISTING; RECS; CHIEF ANESTHESIA 3B-128	20	EX
EX	21	EXISTING LOAD	1	20				720		720	REC	20	1	RECS; ANESTHESIA 3B-127	22	EX
EX	23	EXISTING LOAD	1	20					720	720	REC	20	1	RECS; CORRIDOR C3-9	24	EX
EX	25	RECS; CHIEF ANESTHESIA 3B-128	1	50	REC	720	1260			540	REC	20	1	EXISTING LOAD	26	EX
EX	27	FILM PROCESSOR 3B131	2	30				1000		1000	REC	20	1	REC; MICROWAVE LOUNGE 3B-131	28	N
	29								1000	1000	REC	20	1	REC; COFFEE MAKER LOUNGE 3B-131	30	N

Total Connected Load: 4320 | 4600 | 2800 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)	10460	0.98	10230
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)	1260	1.00	1260
Elec. Load Totals:	11720		11490 VA

ELECTRICAL DATA
Total Conn. Load: 12 KVA
Total Conn. Load: 33 Amps
Total Demand Load: 11 KVA
Total Demand Load: 32 Amps
Main Bus Size: 225 Amps

PANEL LEGEND (ID)
ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION
Location: ELEC. CLOSET 3B-126A
Mounting: Surface Enclosure Type: Nema 1
Fed From: XFMR 13
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES
NOTE 1 - PROVIDE NEW 20A/1P CIRCUIT BREAKER. MATCH (E) AIC RATING AND TYPE OF (E) CIRCUIT BREAKERS.

Panel Name: LPC-3A — New Panel
Panel Voltage: 480Y/277V, 3 Phase, 4 Wire
Main Lugs Only: ____ Main Breaker: 225
Panel A.I.C. Rating: 22k

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
N	1	LTS - PHASE 2 & 4	1	20	L	3410	6820			3410	L	40	1	LTS - PHASE 2 & 4	2	N
N	3	LTS - PHASE 6	1	20	L	2590		8590		6000	REC	40	1	FEEDER TO IPU-OR1-A	4	N
N	5	SPARE	1	20					6000	6000	REC	40	1	FEEDER TO IPU-OR2-A	6	N
N	7	SPARE	1	20			6000			6000	REC	40	1	FEEDER TO IPU-OR3-A	8	N
N	9	SPARE	1	20				6000		6000	REC	40	1	FEEDER TO IPU-OR1-B	10	N
N	11	SPARE	1	20					6000	6000	REC	40	1	FEEDER TO IPU-OR2-B	12	N
N	13	SPARE	1	20			6000			6000	REC	40	1	FEEDER TO IPU-OR3-B	14	N
N	15	SPARE	1	20				6000		6000	REC	40	1	FEEDER TO IPU-OR4-B	16	N
N	17	SPARE	1	20								40	1	FUTURE FEEDER TO IPU-OR5-B	18	N
N	19	SPARE	1	20			6000			6000	REC	40	1	FEEDER TO IPU-OR6-B	20	N
N	21	SPARE	1	20								20	1	SPARE	22	N
N	23	SPARE	1	20								20	1	SPARE	24	N
	25						8820			8820					26	
N	27	SPARE	3	45				9760		9760	NC	70	3	XFMR C3A; 45KVA	28	N
	29								7220	7220					30	

Total Connected Load: 33640 | 30350 | 19220 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	9410	1.25	11763
Receptacles (REC)	48000	0.60	29000
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)	25800	1.00	25800
Refrigeration (REF)		1.00	
Elec. Load Totals:	83210		66563 VA

ELECTRICAL DATA
Total Conn. Load: 83 KVA
Total Conn. Load: 100 Amps
Total Demand Load: 67 KVA
Total Demand Load: 80 Amps
Main Bus Size: 225 Amps

PANEL LEGEND (ID)
ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION
Location: ELEC. CLOSET 3B-126A
Mounting: Surface Enclosure Type: Nema 1
Fed From: MDP-CE
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES

Panel Name: RPC-3A — Existing Panel
Panel Voltage: 208Y/120V, 3 Phase, 4 Wire
Main Lugs Only: ____ Main Breaker: 100
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
	1	SPARE	1	20								20	1	EXISTING LOAD	2	
	3	EX FAN COMP. GAS STORAGE 3B130	1	20								20	1	EXISTING LOAD	4	
	5	OR VAV POWER	1	20								20	1	EXISTING LOAD	6	
	7	TEMPERATURE CONTROL PANEL	1	20								20	1	SPARE	8	
	9	REC EXISTING LOAD	1	20								20	1	EXISTING LOAD REC 4B111	10	
	11	EXISTING LOAD	1	20								20	1	EXISTING LOAD REC 4B111	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	

Total Connected Load: (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)		1.00	
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:			VA

ELECTRICAL DATA
Total Conn. Load: KVA
Total Conn. Load: Amps
Total Demand Load: KVA
Total Demand Load: Amps
Main Bus Size: 100 Amps

PANEL LEGEND (ID)
ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION
Location: ELEC. CLOSET 3B-126A
Mounting: Surface Enclosure Type: Nema 1
Fed From: RPC-1A
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES
PANEL SHOWN FOR REFERENCE ONLY. PANEL RPC-3A AND ASSOCIATED FEEDER SHALL BE DEMOLISHED IN PHASE 4. ALL REMAINING CIRCUITS CONNECTED TO PANEL RPC-3A SHALL BE SPLICED AND EXTENDED TO NEW PANEL RPC-3A1 IN PHASE 4.

Panel Name: RPC-3A1 — New Panel
Panel Voltage: 208Y/120V, 3 Phase, 4 Wire
Main Lugs Only: ____ Main Breaker: 150
Panel A.I.C. Rating: 22k

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
N	1	RECS; OR SUPPLIES 3B-135A	1	20	REC	360	900			540	REC	20	1	REC; LOW VOLTAGE ROOM 3B-132	2	N
N	3	RECS; LOW VOLTAGE ROOM 3B-132	1	20	REC	360		540		180	REC	20	1	BLANKET WARMER STORAGE 3B-139A	4	N
N	5	RECS; SEMI-RESTRICTED CORRICOR 3C-10	1	20	REC	360			860	500	REC	20	1	XRAY ILLUMINATOR 3C-10	6	N
N	7	RELOCATED FAN EF-11	1	20	AC	700	1060			360	REC	20	1	RECS; CYSTO SUPPLIES 3B-137A	8	N
N	9	BAS PANEL	1	20	C	1000		2000		1000	C	20	1	BAS PANEL	10	N
N	11	CHWR HEAT TRACE. SEE NOTE 1	1	20	C	600			1200	600	C	20	1	CHWS HEAT TRACE. SEE NOTE 1	12	N
N	13	REC; BLANKET WARMER STORAGE 3B-135A	1	20	REC	180	1080			900	REC	20	1	RECS; OR SUPPLIES 3B-139A	14	N
N	15	RECS; OR SUPPLIES 3B-135A	1	20	REC	900		1980		1080	REC	20	1	RECS; OR SUPPLIES 3B-139A	16	N
N	17	RECS; OR SUPPLIES 3B-135A	1	20	REC	720			1720	1000	C	20	1	BAS PANEL	18	N
N	19	RECS; CYSTO SUPPLIES 3B-137A	1	20	REC	900	900					20	1	SPARE	20	N
N	21	RECS; CYSTO SUPPLIES 3B-137A	1	20	REC	720		720				20	1	SPARE	22	N
N	23	RECS; OR SUPPLIES 3B-139A	1	20	REC	360			1360	1000	C	20	1	SKYTRON INTEGRATION CABINET; 3B-135A	24	N
N	25	SKYTRON INTEGRATION CABINET; 3B-135A	1	20	C	1000	2000			1000	C	20	1	SKYTRON INTEGRATION CABINET; 3B-137A	26	N
N	27	SKYTRON INTEGRATION CABINET; 3B-137A	1	20	C	1000		2000		1000	C	20	1	SKYTRON INTEGRATION CABINET; 3B-139A	28	N
N	29	SKYTRON INTEGRATION CABINET; 3B-139A	1	20	C	1000			1360	360	REC	20	1	RECS; CONTROL 3B-137B	30	N
N	31	RECS; CONTROL 3B-137B	1	20	REC	180	360			180	REC	20	1	RECS; CONTROL 3B-137B	32	N
N	33	SPARE	1	20				1920		1920					34	
N	35	SPARE	1	20					1920	1920	NC	20	3	HYDRADJUST PLUS UROLOGICAL BED; 3B-137	36	N
N	37	SPARE	1	20			1920			1920					38	
N	39	SPARE	1	20								20	1	SPARE	40	N
N	41	SPARE	1	20								20	1	SPARE	42	N

Total Connected Load: 8220 | 9160 | 8420 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)	700	1.00	700
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)	9140	1.00	9140
Existing (E)		1.25	
Continuous (C)	10200	1.25	12750
Non-Continuous (NC)	1920	1.00	1920
Refrigeration (REF)		1.00	
Elec. Load Totals:	21960		24510 VA

ELECTRICAL DATA
Total Conn. Load: 22 KVA
Total Conn. Load: 61 Amps
Total Demand Load: 25 KVA
Total Demand Load: 68 Amps
Main Bus Size: 225 Amps

PANEL LEGEND (ID)
ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION
Location: ELEC. CLOSET 3B-126A
Mounting: Surface Enclosure Type: Nema 1
Fed From: XFMR C3A: 45 KVA
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES
NOTE 1 - NEW CIRCUIT BREAKER SHALL BE GFI-TYPE.

Panel Name: LPS-3A — New Panel
Panel Voltage: 480Y/277V, 3 Phase, 4 Wire
Main Lugs Only: ____ Main Breaker: 60
Panel A.I.C. Rating: 22k

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
N	1	LTS - PHASE 1 & 2	1	20	L	1230	1230					20	1	SPARE	2	N
N	3	LTS - LOCKER ROOMS	1	20	L	250		250				20	1	SPARE	4	N
N	5	LTS - PHASE 6	1	20	L	1000			1000			20	1	SPARE	6	N
N	7	SPARE	1	20								20	1	SPARE	8	N
N	9	SPARE	1	20								20	1	SPARE	10	N
N	11	SPARE	1	20								20	1	SPARE	12	N
N	13	SPARE	1	20								20	1	SPARE	14	N
N	15	SPARE	1	20								20	1	SPARE	16	N
N	17	SPARE	1	20								20	1	SPARE	18	N
N	19	SPARE	1	20			800			800					20	
N	21	SPARE	1	20				500		500	NC	30	3	XFMR LS3A; 15 KVA	22	N
N	23	SPARE	1	20					1000	1000					24	

Total Connected Load: 2030 | 750 | 2000 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	2480	1.25	3100
Receptacles (REC)		1.00	
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)	2300	1.00	2300
Refrigeration (REF)		1.00	
Elec. Load Totals:	4780		5400 VA

ELECTRICAL DATA
Total Conn. Load: 5 KVA
Total Conn. Load: 6 Amps
Total Demand Load: 5 KVA
Total Demand Load: 6 Amps
Main Bus Size: 100 Amps

PANEL LEGEND (ID)
ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION
Location: ELEC. CLOSET 3B-126A
Mounting: Surface Enclosure Type: Nema 1
Fed From: MDP-LS
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES

Panel Name: RPS-3A — New Panel
Panel Voltage: 208Y/120V, 3 Phase, 4 Wire
Main Lugs Only: ____ Main Breaker: 60
Panel A.I.C. Rating: 22k

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
N	1	NURSE CALL HEADEND - LOW VOLTAGE ROOM	1	20	REC	300	300					20	1	SPARE	2	N
N	3	INTERCOM HEADEND - LOW VOLTAGE ROOM	1	20	REC	500		500				20	1	SPARE	4	N
N	5	FIRE ALARM BOOSTER PANEL	1	20	REC	1000			1000			20	1	SPARE	6	N
N	7	GAS MANIFOLD 3B-127	1	20	REC	500	500					20	1	SPARE	8	N
N	9	SPARE	1	20								20	1	SPARE	10	N
N	11	SPARE	1	20								20	1	SPARE	12	N
N	13	SPARE	1	20								20	1	SPARE	14	N
N	15	SPARE	1	20								20	1	SPARE	16	N
N	17	SPARE	1	20								20	1	SPARE	18	N
N	19	SPARE	1	20								20	1	SPARE	20	N
N	21	SPARE	1	20								20	1	SPARE	22	N
N	23	SPARE	1	20								20	1	SPARE	24	N

Total Connected Load: 800 | 500 | 1000 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)	2300	1.00	2300
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	2300		2300 VA

ELECTRICAL DATA
Total Conn. Load: 2 KVA
Total Conn. Load: 6 Amps
Total Demand Load: 2 KVA
Total Demand Load: 6 Amps
Main Bus Size: 100 Amps

PANEL LEGEND (ID)
ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION
Location: ELEC. CLOSET 3B-126A
Mounting: Surface Enclosure Type: Nema 1
Fed From: XFMR LS3A: 15 KVA
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES

ELECTRICAL CONNECTION SCHEDULE

TAG	LOCATION	NOTES	ELECTRICAL CHARACTERISTICS: V/PH/HZ	MCA	MOCP	KW	HP	LOCAL DISCONNECT DEVICE: UNFUSED SWITCH	FUSED SWITCH	MANUAL MOTOR SWITCH: OL	MANUAL MOTOR SWITCH: PILOT	DIV	STARTER: TYPE	SIZE	COMBINATION: SW UNFU	COMBINATION: SW/ FUSE	COMBINATION: MCP	ACCESSORIES: HOA	ACCESSORIES: PILOT	DIV	WIRE & CONDUIT	CIRCUITING
1S-AC-16	5TH FLOOR ROOF		480/3/60	65.9	100			X				23									REFER TO SINGLE LINE DRAWING	REFER TO SINGLE LINE DRAWINGS
1S-EF-20	4TH FLOOR ROOF		120/1/60	7.3	15		1/4						FVNR	0	X		15	X	X	26	2-#12 + 1-#12G. IN 3/4" C.	RPC-3A1-4
1S-UH-EF-11	TEMP GAS BOTTLE STORAGE 3B-127		120/1/60	1.0	15		0.05			X		26									2#12 + 1#12G. IN 3/4"C.	RPC-3A1-22

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

MILLER-REMICK LLC
PROFESSIONAL ENGINEER
THOMAS L. CHAPMAN — REGISTERED — 14634 — STATE OF WEST VIRGINIA — PROFESSIONAL ENGINEER — 2/2/16

ARCHITECT / ENGINEERS:

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Drawing Title: ELECTRICAL PANEL SCHEDULES ELECTRICAL CLOSET 3B-126A
Approved: Medical Center Director
Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS
Location: HUNTINGTON, WV
Date: 01-15-2016 | Checked: MC | Drawn: MR
Project Number: 581-13-101
Building Number: 1S
Drawing Number: E6.03
Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

P:\0499_DVA\1-0499-0025 Huntington WV Renovate Surgical Service and Operating Rooms\2_Drawings\1_Cad\1_Current Submittal Phase\7_Electrical\E6.03.dwg 2-29-16 11:27:08 AM dreed

three inches = one foot; one and one half inches = one foot; one inch = one foot; three quarters inch = one foot; one half inch = one foot; three eighths inch = one foot; one quarter inch = one foot; one eighth inch = one foot

Panel Name: LPN-3B

Panel Voltage: 480Y/277V, 3 Phase, 4 Wire

Existing Panel

Main Lugs Only: ____ Main Breaker: 100
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
EX	1	EXISTING - LTS 3B134 OR#4	1	20								20	1	EXISTING - LTS 3B143 OR #3	2	EX
EX	3	EXISTING - LTS 3B145	1	20								20	1	EXISTING - LTS 3B144	4	EX
EX	5	EXISTING LOAD	1	20								20	1	EXISTING - LTS 3B135, 3B136a	6	EX
EX	7	EXISTING - LTS 3B161	1	20										Space	8	EX
N	9	LTS - PHASE 3 - SEE NOTE 1	1	20	L	292		292						Space	10	EX
N	11	LTS - PHASE 3 - SEE NOTE 1	1	20	L	241			1717	1476	L	20	1	OR 3 & 4 - SEE NOTE 1.	12	N
N	13	LTS - PHASE 4 - SEE NOTE 1	1	20	L	880	7560			6680					14	
N	15	LTS - PHASE 4 - SEE NOTE 1	1	20				8020		8020	REC	70	3	PANEL RPN-3B 45 KVA XFMR NO. 26	16	EX
EX	17	Space							7480	7480					18	

Total Connected Load: 7560 | 8312 | 9197 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	2889	1.25	3611
Receptacles (REC)	22180	0.73	16090
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	**25069**		**19701** VA

ELECTRICAL DATA

Total Conn. Load: 25 KVA
Total Conn. Load: 30 Amps
Total Demand Load: 20 KVA
Total Demand Load: 24 Amps
Main Bus Size: 100 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-163
Mounting: Surface Enclosure Type: Nema 1
Fed From: SUS #1
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

NOTE 1 - PROVIDE NEW 20A/1P CIRCUIT BREAKER. MATCH (E) AIC RATING AND TYPE OF (E) CIRCUIT BREAKERS.

Panel Name: RPN-3B

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

Existing Panel

Main Lugs Only: ____ Main Breaker: 150
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
	1					3160	3160					20	1	EXISTING - RECS; 38-141a, 3B-141, 3B-142	2	EX
EX	3	PANEL RPN-3B-1	3	100	REC	4060		4240		180	REC	20	1	RECS; CONTROL 3B-154	4	EX
	5					3780			4140	360	REC	20	1	RECS; FROZEN SECTION 3B-150	6	EX
EX	7	EXISTING - RECS 3B141, 3B141f LIGHT	1	20								20	1	EXISTING LOAD	8	EX
EX	9	EXISTING - REC 3B141	1	20								20	1	EXISTING - RECS; C3-14, STRIPS 3B-161	10	EX
EX	11	EXISTING - REC C314, 3B144b	1	20					360	360	REC	20	1	RECS; CLEAN CORE 3B-138	12	EX
EX	13	RECS; 3B-156, 3B-157, 3B-155A, DC-316	1	20	REC	540	900			360	REC	20	1	RECS; MECH. ROOF	14	EX
EX	15	SPARE	1	20								20	1	EXISTING - RECS; MEDS 3B-152	16	EX
EX	17	SPARE	1	20								20	1	EXISTING - RECS; MEDS 3B-152	18	EX
EX	19	RECS; CONTROL (COPIER) 3B-159	1	20	REC	1000	1000					20	1	EXISTING - RECS; MEDS 3B-152	20	EX
EX	21	RECS; CONTROL 3B-159	1	20	REC	1080		1440		360	REC	20	1	RECS; PATIENT BAYS 3B-151	22	EX
EX	23	SPARE	1	20					1080	1080	REC	20	1	RECS; C3-10, 3B-158 AND 3B-148	24	EX
EX	25	RECS; 3B154, 3B153, 3B151	1	20	REC	180	180					20	1	EXISTING LOAD	26	EX
EX	27	RECS; NURSE STATION 3B-150	1	20	REC	900		900				20	1	EXISTING - RECS; 3B133a	28	EX
EX	29	EXISTING - RECS; 3B143a	1	20								20	1	EXISTING - RECS; 38131e, 3B134c	30	EX

Total Connected Load: 5240 | 6580 | 5580 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)	17400	0.79	13700
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	**17400**		**13700** VA

ELECTRICAL DATA

Total Conn. Load: 17 KVA
Total Conn. Load: 48 Amps
Total Demand Load: 14 KVA
Total Demand Load: 38 Amps
Main Bus Size: 225 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-163
Mounting: Surface Enclosure Type: Nema 1
Fed From: XFMR #25 45 Kva
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

Panel Name: RPN-3B-1

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

Existing Panel

Main Lugs Only: Yes Main Breaker: ____
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
EX	1	RECS; 3B150, 3B149, 3B148	1	20								20	1	RECS; 3B133b, 3B133	2	EX
EX	3	RECS; PATIENT BAYS 3B-151	1	20	REC	540		540				20	1	ERECS; 3B133, 3B133a	4	EX
EX	5	RECS; 3B141B, 3B140	1	20								20	1	RECS; 3B141g	6	EX
EX	7	EXISTING LOAD	1	20			180			180	REC	20	1	RECS; ANTE ROOM 3B-143	8	EX
EX	9	RECS; 3B151b, 3B151ba, 3B151aa, 3B151	1	20				540		540	REC	20	1	RECS; ANESTHESIA WORKROOM 3B-15X	10	EX
EX	11	RECS; 3B151	1	20					900	900	REC	20	1	RECS; ANESTHESIA WORKROOM 3B-15X	12	EX
EX	13	SPARE	1	20			540			540	REC	20	1	RECS; PATIENT BAYS 3B-151	14	EX
EX	15	SPARE	1	20								20	1	SPARE	16	EX
EX	17	RECS; TOILET 3B-148 & LOUNGE 3B-149	1	20	REC	540			540			20	1	SPARE	18	EX
EX	19	SPARE	1	20								20	1	SPARE	20	EX
EX	21	RECS; PATIENT BAYS 3B-150	1	20	REC	180		720		540	REC	20	1	RECS; PATIENT BAYS 3B-151	22	EX
EX	23	RECS; PATIENT BAYS 3B-151	1	20	REC	1260			1800	540	REC	20	1	RECS; NURSE STATION 3B-150	24	EX

Total Connected Load: 720 | 1800 | 3240 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)	12940	0.89	11470
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	**12940**		**11470** VA

ELECTRICAL DATA

Total Conn. Load: 13 KVA
Total Conn. Load: 36 Amps
Total Demand Load: 11 KVA
Total Demand Load: 32 Amps
Main Bus Size: 100 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-163
Mounting: Surface Enclosure Type: Nema 1
Fed From: RPN-3B SECTION 1
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

Panel Name: LPC-3B

Panel Voltage: 480Y/277V, 3 Phase, 4 Wire

Existing Panel

Main Lugs Only: ____ Main Breaker: 225
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
EX	1	LTS - PHASE 3	1	20	L	255	2064			1809	L	20	1	LTS - PHASE 3	2	EX
EX	3	EXISTING - LTS - PHASE 3	1	20	L	2100		3719		1619	L	20	1	LTS - PHASE 4	4	EX
EX	5	EXISTING - LTS 3B141e,133,133a,134a,134b,134c	1	20								20	1	EXISTING - LTS RM 3B144a, 3B144i, 3B144h	6	EX
EX	7	EXISTING - LTS RM 3B141, 3B141g	1	20								20	1	EXISTING - LTS SICU , C#-13, 3B151, 3B152, C3-14	8	EX
EX	9	EXISITNG LOAD	1	20								30	1	EXISTING - 1PU-1A RM 3B134	10	EX
EX	11	LTS - PHASE 3	1	40	L	100			100			20	1	EXISTING LOAD	12	EX
N	13	FEEDER TO IPU-OR4-A	1	40	REC	6000	6000					20	1	EXISTING - LTS SICU BATHROOMS	14	EX
EX	15	FUTURE FEEDER TO IPU-OR5-A	1	40	REC							40	1	EXISTING - IPIU-4A RM 3B143	16	EX
EX	17	FEEDER TO IPU-OR6-A	1	40	REC	6000			6000			40	1	EXISTING - IPU-4B 3B143	18	EX
	19											40	1	EXISTING - IPU-5B 3B144	20	EX
EX	21	EXISTING - LASER POWER	3	40								20	1	EXISTING LOAD	22	EX
	23													SPACE	24	
	25					16750	16750								26	
N	27	FEEDER TO (N) XFMR C3B - SEE NOTE 1	3	70	NC	12340		12340				100	3	SPARE SEE NOTE 2	28	EX
	29					14440			14440						30	

Total Connected Load: 24814 | 16059 | 20540 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	5883	1.25	7354
Receptacles (REC)	12000	0.92	11000
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)	43530	1.00	43530
Refrigeration (REF)		1.00	
Elec. Load Totals:	**61413**		**61884** VA

ELECTRICAL DATA

Total Conn. Load: 61 KVA
Total Conn. Load: 74 Amps
Total Demand Load: 62 KVA
Total Demand Load: 74 Amps
Main Bus Size: 225 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-163
Mounting: Surface Enclosure Type: Nema 1
Fed From: MDP-CE
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

NOTE 1 - PROVIDE NEW 70A/1P CIRCUIT BRKR. MATCH (E) AIC RATING AND TYPE OF (E) CIRCUIT BRKRS.
NOTE 2 - 100A BRKR, CIRCUITS 26,28,30, TO BE LEFT AS SPARE AFTER DEMOLITION OF XFMR #26 IN PHASE 4.

Panel Name: LPS-3B

Panel Voltage: 480Y/277V, 3 Phase, 4 Wire

Existing Panel

Main Lugs Only: ____ Main Breaker: 100
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
EX	1	EX - LTS 3B163, 162, 176,177, C3-14,11, 10,15, CG-7	1	20			120			120	L	20	1	LTS - PHASE 3	2	EX
EX	3	EX - LTS 3B133, 126, 126a, 126b, C3-9, EXIT LTS	1	20				700		700	L	20	1	LTS - CORRIDOR PHASE 3	4	EX
EX	5	EXISTING LOAD	1	20					390	390	L	20	1	LTS - CORRIDOR PHASE 6	6	EX
EX	7	Spare	1	20								20	1	SPARE	8	EX
EX	9	Spare	1	20								20	1	SPARE	10	EX
EX	11	Space	1	20					3300	3300					12	
	13	Space					3300			3300	NC	25	3	EXISTING - PANEL RPS-3B TRANSFORMER #27	14	EX
	15	Space						3300		3300					16	
	17	Space												SPACE	18	

Total Connected Load: 3420 | 4000 | 3690 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	1210	1.25	1513
Receptacles (REC)		1.00	
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)	9900	1.00	9900
Refrigeration (REF)		1.00	
Elec. Load Totals:	**11110**		**11413** VA

ELECTRICAL DATA

Total Conn. Load: 11 KVA
Total Conn. Load: 13 Amps
Total Demand Load: 11 KVA
Total Demand Load: 14 Amps
Main Bus Size: 100 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-163
Mounting: Surface Enclosure Type: Nema 1
Fed From: LPS-BA
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

Panel Name: RPC-3B

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

Existing Panel

Main Lugs Only: ____ Main Breaker: 225
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
EX	1	STERIL VS-122, LTS	1	20								20	1	SCRUB SINK 3B141h	2	EX
EX	3	REFRIG. 3B151g	1	20								20	1	SCRUB SINK 3B134c, 3B141i	4	EX
EX	5	RECS; REFRIG CONTROL CENTER	1	20								20	1	SCRUB SINK RN 3B141c AND CIRC PUMP	6	EX
EX	7	REC ON COLUMN	1	20								20	1	TO MEDICINE STATION CRASH CART	8	EX
EX	9	WASH SANTI. CENTER	1	20								20	1	MEDICINE STATION	10	EX
EX	11	SOLUTION WARM CABINET HW-412E	1	20								20	1	MEDICAL GAS, LTS 3B151aa, 3B151ba	12	EX
EX	13	NITE LTS SICU	1	20								20	1	SOLUTION WARM CABINET HW-412E	14	EX
EX	15	TEMP CNTRL PANEL RN 3B155	1	20								20	1	EXISTING LOAD	16	EX
EX	17	EXISTING LOAD	1	20								20	1	STERILE VS122	18	EX
EX	19 / 21	SICU-38154 PBPU-3A 3B159	2	60								60	2	SCIU-38158 PBPU-3A 3B156	20 / 22	EX
EX	23 / 25	SICU-38156 PBPU-3A 3B158	2	60								60	2	SICU-38159 PBPU-3A 3B157	24 / 26	EX
EX	27 / 29	SICU-38157 PBPU-3A 3B160	2	60								60	2	SICU-38160 PBPU-3A 3B154	28 / 30	EX
EX	31	EXISTING LOAD	1	20								60	2	CYSTO RM 136	32 / 34	EX
EX	33	EXISTING LOAD	1	20												
EX	35	EXISTING LOAD	1	20										SPACE	36	EX
EX	37	EXISTING LOAD	1	20								20	1	EXISTING LOAD	38	EX
EX	39	EXISTING LOAD	1	20								20	1	EXISTING LOAD	40	EX
EX	41	EXISTING LOAD	1	20								20	1	EXISTING LOAD	42	EX

Total Connected Load: | | (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)		1.00	
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:			VA

ELECTRICAL DATA

Total Conn. Load: ____ KVA
Total Conn. Load: ____ Amps
Total Demand Load: ____ KVA
Total Demand Load: ____ Amps
Main Bus Size: 225 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-163
Mounting: Surface Enclosure Type: Nema 1
Fed From: XFMR #26, 75 Kva
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

NOTE 1 - PANEL RPC-3B SHALL BE DEMOLISHED IN PHASE 4. ALL REMAINING CIRCUITS CONNECTED TO PANEL RPC-3B SHALL BE SPLICED AND EXTENDED TO NEW PANEL RPC-3B1.

Panel Name: RPC-3B1

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

New Panel

Main Lugs Only: ____ Main Breaker: 150
Panel A.I.C. Rating: 22k

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
N	1	SPARE	1	20			360			360	REC	20	1	REC; PATIENT BAYS 3B-151	2	N
N	3	SPARE	1	20				900		900	REC	20	1	REC; PATIENT BAYS 3B-151	4	N
N	5	SPARE	1	20								20	1	SPARE	6	N
N	7	RECS; PATIENT BAYS 3B-151	1	20	REC	360	360					20	1	SPARE	8	N
N	9	RECS; PATIENT BAYS 3B-151	1	20	REC	360		360				20	1	SPARE	10	N
N	11	SPARE	1	20					360	360	REC	20	1	RECS; MEDS 3B-152	12	N
N	13	SPARE	1	20								20	1	SPARE	14	N
N	15	REC; COMM 3B-162	1	20	REC	360		360				20	1	SPARE	16	N
N	17	RECS; COMM 3B-162	1	20	REC	540			540			20	1	SPARE	18	N
N	19	REC; COMM 3B-162	1	30	REC	2880	2880					20	1	SPARE	20	N
N	21	RECS; NURSE STATION 3B-150	1	20	REC	540		1260		720	REC	20	1	RECS; ISOLATION ROOM 3B-155	22	N
N	23	SPARE	1	20					1260	1260	REC	20	1	RECS; EQUIPMENT STORAGE 3B-134	24	N
N	25	RECS; NURSE STATION 3B-150	1	20	REC	720	1260			540	REC	20	1	RECS; EQUIPMENT STORAGE 3B-134	26	N
N	27	SPARE	1	20				900		900	REC	20	1	RECS; EQUIPMENT STORAGE 3B-134	28	N
N	29	SPARE	1	20					720	720	REC	20	1	RECS; CONTROL 3B-159	30	N
N	31	SPARE	1	20			720			720	REC	20	1	RECS; CLEAN CORE CB-138	32	N
N	33	PYXSIS; ANESTHESIA WORKROOM 3B-15X	1	20	REC	500		1220		720	REC	20	1	RECS; CLEAN CORE CB-138	34	N
N	35	RECS; STERILE SUPPLIES 3B-141A	1	20	REC	1080			1980	900	REC	20	1	RECS; CLEAN CORE CB-138	36	N
N	37	RECS; STERILE SUPPLIES 3B-141A	1	20	REC	1080	5990			4910					38	
N	39	RECS; STERILE SUPPLIES 3B-141A	1	20	REC	360		5060		4700	NC	100	3	PNL RPC-3B2	40	N
N	41	SPARE	1	20					3220	3220					42	

Total Connected Load: 11570 | 10060 | 8080 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)	16880	0.80	13440
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)	12830	1.00	12830
Refrigeration (REF)		1.00	
Elec. Load Totals:	**29710**		**26270** VA

ELECTRICAL DATA

Total Conn. Load: 30 KVA
Total Conn. Load: 82 Amps
Total Demand Load: 26 KVA
Total Demand Load: 73 Amps
Main Bus Size: 225 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-163
Mounting: Surface Enclosure Type: Nema 1
Fed From: XFMR C3B; 45 KVA
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

Panel Name: RPC-3B2

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

New Panel

Main Lugs Only: Yes Main Breaker: ____
Panel A.I.C. Rating: 22k

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
N	1	CLEAN CORE 3B-138	1	20	C	900	1260			360	REC	20	1	RECS;	2	N
N	3	CLEAN CORE 3B-138	1	20	C	900		1400		500	REC	20	1	PYXSIS; ANESTHESIA WORK ROOM 3B-15X	4	N
N	5	RECS; IMPLANT STORAGE 3B-133	1	20	REC	720			900	180	REC	20	1	RECS CORRIDOR C3-10	6	N
N	7	MED GAS & ISO SUMMARY MONITOR STATIONS	1	20	C	750	1470			720	REC	20	1	RECS; ANESTHESIA WORK ROOM 3B-15X	8	N
N	9	FRIDGE; ANESTHESIA WORKROOM 3B-15X	1	20	REC	1000		2000		1000	C	20	1	SKYTRON INTEGRATION CABINET 3B-141A	10	N
N	11	BAS PANEL	1	20	C	500			1500	1000	C	20	1	SKYTRON INTEGRATION CABINET 3B-141A	12	N
N	13	SKYTRON INTEGRATION CABINET 3B-141A	1	20	C	1000	2000			1000	C	20	1	SKYTRON INTEGRATION CABINET 3B-141A	14	N
N	15	SKYTRON INTEGRATION CABINET 3B-134	1	20	C	1000		2000		1000	C	20	1	SKYTRON INTEGRATION CABINET 3B-134	16	N
N	17	SPARE	1	20					540	540	REC	20	1	RECS; ANESTHESIA WORK ROOM 3B-15X	18	N
N	19	SPARE	1	20								20	1	SPARE	20	N
N	21	SPARE	1	20								20	1	SPARE	22	N
N	23	SPARE	1	20								20	1	SPARE	24	N
N	25	SPARE	1	20								20	1	SPARE	26	N
N	27	SPARE	1	20								20	1	SPARE	28	N
N	29	SPARE	1	20								20	1	SPARE	30	N
N	31	SPARE	1	20								20	1	SPARE	32	N
N	33	SPARE	1	20								20	1	SPARE	34	N
N	35	SPARE	1	20								20	1	SPARE	36	N
N	37	SPARE	1	20								20	1	SPARE	38	N
N	39	SPARE	1	20								20	1	SPARE	40	N
N	41	SPARE	1	20								20	1	SPARE	42	N

Total Connected Load: 4730 | 5400 | 2940 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)	4020	1.00	4020
Existing (E)		1.25	
Continuous (C)	9050	1.25	11313
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	**13070**		**15333** VA

ELECTRICAL DATA

Total Conn. Load: 13 KVA
Total Conn. Load: 36 Amps
Total Demand Load: 15 KVA
Total Demand Load: 43 Amps
Main Bus Size: 125 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-163
Mounting: Surface Enclosure Type: Nema 1
Fed From: RPC-3B1
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

Panel Name: RPS-3B

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

Existing Panel

Main Lugs Only: ____ Main Breaker: 50
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
EX	1	EXISTING - AUTOMATIC DOOR OPR; C3-11	1	20								20	1	EXISTING - NURSE CALL "B" RISER	2	EX
EX	3	EXISTING - REFRIG,. RM 3B152	1	20								20	1	EXISTING - REC "B" PHONE BOARD	4	EX
EX	5	EXISTING - ICE MACHINE 3B153	1	20								20	1	EXISTING - REC "B" PHONE RM	6	EX
EX	7	EXISTING - REC "C" PHONE & ELEC RM	1	20								20	1	EXISTING - REC "A" PHONE BOARD	8	EX
EX	9	EXISTING - WEST AUTO DR RECOVERY RM	1	20								20	1	EXISTING - EM BATTERY LTS MECH RM	10	EX
EX	11	EXISTING - BATTERY LTS	1	20								20	1	EXISTING - REC "A" PHONE & ELEC RM	12	EX
EX	13	EXISTING - 208 ICE MACHINE	2	20								20	1	EXISTING - GE SCAN CARD POWER	14	EX
	15							500		500	C	20	1	MOTORIZED DOORS	16	EX
EX	17	GAS MANIFOLDS 3B-164	1	20	C	1000			1000			20	1	EXISTING - REC "B" RISER ELEC RM	18	EX
EX	19	MOTORIZED SMOKE PARTITION DOORS	1	20	NC	500	500					20	1	SPARE	20	EX
EX	21	SPARE	1	20								20	1	SPARE	22	EX
EX	23	SPARE	1	20								20	1	SPARE	24	EX
EX	25	SPARE	1	20								20	1	SPARE	26	EX
EX	27	SPARE	1	20								20	1	SPARE	28	EX
EX	29	SPARE	1	20								20	1	SPARE	30	EX

Total Connected Load: 500 | 500 | 1000 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)		1.00	
Existing (E)		1.25	
Continuous (C)	1500	1.25	1875
Non-Continuous (NC)	500	1.00	500
Refrigeration (REF)		1.00	
Elec. Load Totals:	**2000**		**2375** VA

ELECTRICAL DATA

Total Conn. Load: 2 KVA
Total Conn. Load: 6 Amps
Total Demand Load: 2 KVA
Total Demand Load: 7 Amps
Main Bus Size: 100 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-163
Mounting: Surface Enclosure Type: Nema 1
Fed From: XFMR 27, 15 Kva
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

PANEL INDICATES MAIN BUS SIZE OF 50A

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

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PROFESSIONAL ENGINEER

ARCHITECT / ENGINEERS:

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Drawing Title: ELECTRICAL PANEL SCHEDULES ELECTRICAL CLOSET 3B-163

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Location: HUNTINGTON, WV

Project Number: 581-13-101

Building Number: 1S

Drawing Number: E6.04

Date: 01-15-2016 | Checked: MC | Drawn: MR

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

P:\0499_DVA\1-0499-0025 Huntington WV Renovate Surgical Service and Operating Rooms\2_Drawings\1_Cad\1_Current Submittal Phase\7_Electrical\E6.04.dwg 2-29-16 11:26:49 AM dread

Panel Name: RPN-3C1

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

New Panel

Main Lugs Only: ____ Main Breaker: 150
Panel A.I.C. Rating: 22k

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
N	1	RECS; PRE-OP 3B-186 AND 3B-187	1	20	REC	1260	2340			1080	REC	20	1	RECS; PAIN MANAGEMENT 3B-166 AND 3B-167	2	N
N	3	RECS; PRE-OP 3B-186 AND 3B-187	1	20	REC	1080		2160		1080	REC	20	1	RECS; PAIN MANAGEMENT 3B-167	4	N
N	5	RECS; 3B-182, 3B-183 AND C3-7	1	20	REC	720			720		REC	20	1	FUTURE RECS; PAIN MANAGEMENT 3B-166	6	N
N	7	RECS; PRE-OP 3B-184 AND CB-181	1	20	REC	1260	2160			900	REC	20	1	RECS; OR NURSE MANAGER 3B-165	8	N
N	9	RECS; PRE-OP 3B-184 AND CB-181	1	20	REC	1080		1980		900	REC	20	1	RECS; IMPLANT COORDINATOR 3B-168	10	N
N	11	RECS; 3B-180, 3B-179 AND 3B-178	1	20	REC	1440			2520	1080	REC	20	1	RECS; CORRIDOR C3-8	12	N
N	13	RECS; PRE-OP 3B-180 AND 3B-178	1	20	REC	1080	1980			900	REC	20	1	RECS; 3B-164, 3B-161 AND 3B-160	14	N
N	15	RECS; C3-7, 3B-174 AND 3B-175	1	20	REC	1260		1440		180	REC	20	1	RECS; CORRIDOR C3-16	16	N
N	17	RECS; LOUNGE 3B-196 AND NURSE STN 3B-197	1	20	REC	720			1980	1260	REC	20	1	RECS; PRE OP 3B-170 AND 3B-171	18	N
N	19	REC; REFRIGERATOR 3B-196	1	20	REC	1000	2080			1080	REC	20	1	RECS; PRE OP 3B-170 AND 3B-171	20	N
N	21	REC; COFFEE MAKER 3B-196	1	20	REC	1000		2080		1080	REC	20	1	RECS; PRE OP 3B-191 AND 3B-192	22	N
N	23	REC; MICROWAVE 3B-196	1	20	REC	1000			2440	1440	REC	20	1	RECS; PRE OP 3B-191 AND 3B-192	24	N
N	25	REC; LOUNGE 3B-196	1	20	REC	180	1260			1080	REC	20	1	RECS; PRE OP 3B-188 AND 3B-189	26	N
N	27	RECS; TOILET 3B-195 AND NURSE STN 3B-197	1	20	REC	540		1800		1260	REC	20	1	RECS; PRE OP 3B-188 AND 3B-189	28	N
N	29	RECS; ON CALL 3B-200 AND ON-CALL 3B-200	1	20	REC	1080			1800	720	REC	20	1	RECS; STERILE STORAGE 3B-194	30	N
N	31	RECS; CONSULT 3B-201 AND SUB-WAITING 3C-17	1	20	REC	540	1080			540	REC	20	1	RECS; NURSE STATION 3B-197	32	N
N	33	REC; REGISTRATION 3B-199	1	20	REC	1000		1900		900	REC	20	1	REC; CORRIDOR DC3-7	34	N
N	35	REC; REGISTRATION 3B-199	1	20	REC	900			1800	900	REC	20	1	RECS 3B-172, 3B-173 AND DC3-7	36	N
N	37	SPARE	1	20			600			600	REC	20	1	REC; GAS BOTTLE STORAGE 3B-164	38	N
N	39	SPARE	1	20								20	1	SPARE	40	N
N	41	RECS; PUBLIC LOBBY DC-318	1	20	REC	540			540			20	1	SPARE	42	N

Total Connected Load: 11500 | 11360 | 11800 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)	34660	0.64	22330
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	**34660**		**22330** VA

ELECTRICAL DATA

Total Conn. Load: 35 KVA
Total Conn. Load: 96 Amps
Total Demand Load: 22 KVA
Total Demand Load: 62 Amps
Main Bus Size: 225 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-176
Mounting: Flush Enclosure Type: Nema 1
Fed From: XFMR N3C; 45 KVA
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

Panel Name: LPC-3C1

Panel Voltage: 480Y/277V, 3 Phase, 4 Wire

New Panel

Main Lugs Only: ____ Main Breaker: 100
Panel A.I.C. Rating: 22k

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
N	1	LTS - PHASE 7	1	20	L	3600	3600					20	1	SPARE	2	N
N	3	LTS - PHASE 7	1	20	L	280		280				20	1	SPARE	4	N
N	5	SPARE	1	20								20	1	SPARE	6	N
N	7	SPARE	1	20								20	1	SPARE	8	N
N	9	SPARE	1	20								20	1	SPARE	10	N
N	11	SPARE	1	20								20	1	SPARE	12	N
N	13	SPARE	1	20								20	1	SPARE	14	N
N	15	SPARE	1	20								20	1	SPARE	16	N
N	17	SPARE	1	20								20	1	SPARE	18	N
N	19	SPARE	1	20								20	1	SPARE	20	N
N	21	SPARE	1	20								20	1	SPARE	22	N
N	23	SPARE	1	20								20	1	SPARE	24	N
N	25	SPARE	1	20			11500			11500					26	
N	27	SPARE	1	20				11360		11360	REC	70	3	FEEDER TO NEW XFMR C3C; 45 KVA	28	N
N	29	SPARE	1	20					12880	12880					30	

Total Connected Load: 15100 | 11640 | 12880 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	3880	1.25	4850
Receptacles (REC)	35740	0.64	22870
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	**39620**		**27720** VA

ELECTRICAL DATA

Total Conn. Load: 40 KVA
Total Conn. Load: 48 Amps
Total Demand Load: 28 KVA
Total Demand Load: 33 Amps
Main Bus Size: 125 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-176
Mounting: Surface Enclosure Type: Nema 1
Fed From: MDP-CE
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

Panel Name: LPC-3C

Panel Voltage: 480Y/277V, 3 Phase, 4 Wire

Existing Panel

Main Lugs Only: ____ Main Breaker: 100
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
EX	1	LTS PBPU-2A #1,#2,#3 #4 #5,#6, ISOL 3b125c, 125a	1	20								20	1	3B139 CYSTO OR #6	2	EX
EX	3	LTS RECOV 286, 3B125k, NURSE STN	1	20								20	1	3B147 LTS CONTROL STN, C3-6	4	EX
EX	5	LTS 3B136 CYSTO OR #5	1	20								20	1	SPARE	6	EX
EX	7	SPARE	1	20								20	1	EXISTING LOAD	8	EX
EX	9	IPU-3A 3B139	1	20								20	1	EXISTING LOAD	10	EX
EX	11	IPU-2A & 38136	1	20								20	1	EXISTING LOAD	12	EX
EX	13	EXISTING LOAD	1	20											14	
EX	15	SPARE	1	20								45	3	PANEL RPC-3C TRNASFORMER #42	16	EX
EX	17	SPARE	1	20											18	

Total Connected Load: | | (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)		1.00	
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:			VA

ELECTRICAL DATA

Total Conn. Load: ____ KVA
Total Conn. Load: ____ Amps
Total Demand Load: ____ KVA
Total Demand Load: ____ Amps
Main Bus Size: 100 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-176
Mounting: Surface Enclosure Type: Nema 1
Fed From: MCC-EBB
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

NOTE 1 - PANEL LPC-3C SHALL BE DEMOLISHED IN PHASE 4. ALL REMAINING CIRCUITS CONNECTED TO PANEL LPC-3C SHALL BE SPLICED AND EXTENDED TO NEW PANEL LPC-3C1.

THIS ITEM HAS BEEN IDENTIFIED AS WORK TO BE INCLUDED AS A BID ALTERNATE. SEE SPECIFICATIONS AND INSTRUCTIONS TO BIDDERS FOR A DETAILED LISTING OF THIS ITEM AND ITS ASSOCIATED SCOPE OF WORK.

Panel Name: RPC-3C

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

Existing Panel

Main Lugs Only: ____ Main Breaker: 100
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
	1	6 RECS; 38147	1	20								20	1	3 RECS; NNURSE STN 3B125k	2	
	3	5 RECS; C3-6	1	20								20	1	T-18C 3B125k	4	
	5	MED GAS ALARM C3-6	1	20								20	1	(EXISTING LOAD)SPARE TO T-18C 3B125k	6	
	7	RECS; 3B125	1	20								20	1	SPARE TO J BOX STERILIZER 3B141a	8	
	9	RECS; 3B125, C3-5	1	20								20	1	48" REC 3B125k & 3B125d AIR PRESSURE MONITOR	10	
	11	RECS; 3B125, 3B125a	1	20								20	1	RECS; MEDS 3B-152	12	
	13	RECS; 3B125, 3B125C	1	20								20	1	RECS; MEDS 3B-152	14	
	15	(EXISTING LOAD) SPARE IN HOMERUN J-BOX	1	20								20	1	RECS; MEDS 3B-152	16	
	17	MED GAS ALARM 3B125k	1	20								20	1	RECS; MEDS 3B-152	18	
	19	"DON NOT ENTER" LIGHTS 3B136, 3B139	1	20								20	1	RECS; MEDS 3B-152	20	
	21	REC; 3B147 CRASH CART	1	20								20	1	RECS; ISOLATION ROOM 3B-155	22	
	23	TEMP CONTROL PANEL C3-6	1	20								20	1	NURSE CALL "C" RSR PH RM/ NEW NURSE CALL PNL	24	
	25	EXISTING LOAD	1	20								20	1	WALL LT 3B125g	26	
	27	RECS; 3B147-3B149 H.P. EUIP.	1	20								20	1	STERILIZER	28	G
	29	EXISTING LOAD	1	20								20	1	ELECTRIC DOOR SURGERY	30	

Total Connected Load: | | (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)		1.00	
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:			VA

ELECTRICAL DATA

Total Conn. Load: ____ KVA
Total Conn. Load: ____ Amps
Total Demand Load: ____ KVA
Total Demand Load: ____ Amps
Main Bus Size: 100 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-176
Mounting: Surface Enclosure Type: Nema 1
Fed From: XFMR 42
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

NOTE 1 - PANEL RPC-3C SHALL BE DEMOLISHED IN PHASE 4. ALL REMAINING CIRCUITS CONNECTED TO PANEL RPC-3C SHALL BE SPLICED AND EXTENDED TO NEW PANEL RPC-3C1.

Panel Name: RPC-3C1

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

New Panel

Main Lugs Only: ____ Main Breaker: 150
Panel A.I.C. Rating: 22k

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
N	1	RECS; PAIN MANAGEMENT 3B-167	1	20	REC	1260	1760			500	REC	20	1	RECS; UC FRIDGE NOURSHIMENT C3-7.3	2	N
N	3	FUTURE; RECS; PAIN MANAGEMENT 3B-166	1	20	REC							20	1	SPARE	4	N
N	5	RECS; INFECTIOUS FLUID MGT 3B-169	1	20	REC	720			1220	500	C	20	1	BAS PANEL	6	N
N	7	RECS; PRE-OP 3B-170 AND 3B-171	1	20	REC	1080	1080				C	20	1	FUTURE; RELOCATED SKYTRON BOOM; 3B-166	8	N
N	9	RECS; PRE-OP 3B-191 AND 3B-192	1	20	REC	1080		1080				20	1	SPARE	10	N
N	11	RECS; PRE-OP 3B-189 AND 3B-190	1	20	REC	1080			1080			20	1	SPARE	12	N
N	13	RECS; PRE-OP 3B-186 AND 3B-187	1	20	REC	1080	1080					20	1	SPARE	14	N
N	15	RECS; PRE-OP 3B-184 AND 3B-181	1	20	REC	1080		1080				20	1	SPARE	16	N
N	17	RECS; PRE-OP 3B-178 AND 3B-180	1	20	REC	1080			1080			20	1	SPARE	18	N
N	19	RECS; NURSE STATION 3B-197	1	20	REC	720	720					20	1	SPARE	20	N
N	21	REC; LINEN/CRASH CART C3-7.2	1	20	REC	180		180				20	1	SPARE	22	N
N	23	REC; LINEN/CRASH CART C3-7.2	1	20	REC	180			180			20	1	SPARE	24	N
N	25	RECS; LINEN/CRASH CART C3-7.2	1	20	REC	360	360					20	1	SPARE	26	N
N	27	REC; ICE MAKER NOURISHMENT C3-7.3	1	20	REC	1000		1000				20	1	SPARE	28	N
N	29	REC; NOURISHMENT C3-7.3	1	20	REC	180			180			20	1	SPARE	30	N
N	31	REC; NOURISHMENT C3-7.3	1	20	REC	180	180					20	1	SPARE	32	N
N	33	REC; NOURISHMENT C3-7.3	1	20	REC	720		720				20	1	SPARE	34	N
N	35	REC; NOURISHMENT C3-7.3	1	20	REC	720			720			20	1	SPARE	36	N
N	37	RECS; MEDS 3B-193	1	20	REC	720	720					20	1	SPARE	38	N
N	39	RECS; MEDS 3B-194	1	20	REC	720		720				20	1	SPARE	40	N
N	41	RECS; CORR DC-3-7 (NURSE STN)	1	20	REC	900			900			20	1	SPARE	42	N

Total Connected Load: 5900 | 4780 | 5360 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)	15540	0.82	12770
Existing (E)		1.25	
Continuous (C)	500	1.25	625
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	**16040**		**13395** VA

ELECTRICAL DATA

Total Conn. Load: 16 KVA
Total Conn. Load: 45 Amps
Total Demand Load: 13 KVA
Total Demand Load: 37 Amps
Main Bus Size: 225 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-176
Mounting: Surface Enclosure Type: Nema 1
Fed From: XFMR C3C; 45 KVA
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

Panel Name: LPN-3C

Panel Voltage: 480Y/277V, 3 Phase, 4 Wire

Existing Panel

Main Lugs Only: ____ Main Breaker: 100
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
EX	1	EXISTING LOAD	1	20								20	1	EXISTING - 3B136 LTS CYSTO OR #5	2	EX
EX	3	LTS - CORRIDORS	1	20	L	1550		1550				20	1	EXISTING - LTS NORTH WEST NEW ADDITION	4	EX
EX	5	EXISTING LOAD	1	20								20	1	EXISTING - 3B134 LTG CYSTO OR #7	6	EX
N	7	LTS - PHASE 6 & 7 - SEE NOTE 1	1	20	L	1620	1620							SPACE	8	EX
EX	9	SPACE												SPACE	10	EX
EX	11	SPACE												SPACE	12	EX
	13														14	
N	15	FEEDER TO NEW XFMR N3C; 45KVA - SEE NOTE 2	3	70	REC							70	3	SPARE - SEE NOTE 3	16	EX
	17														18	

Total Connected Load: 1620 | 1550 | (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	3170	1.25	3963
Receptacles (REC)		1.00	
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	**3170**		**3963** VA

ELECTRICAL DATA

Total Conn. Load: 3 KVA
Total Conn. Load: 4 Amps
Total Demand Load: 4 KVA
Total Demand Load: 5 Amps
Main Bus Size: 100 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-176
Mounting: Surface Enclosure Type: Nema 1
Fed From: SUS #1
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

NOTE 1 - PROVIDE NEW 20A/1P CIRCUIT BRKR. MATCH (E) AIC RATING AND TYPE OF (E) CIRCUIT BRKRS.
NOTE 2 - PROVIDE NEW 70A/1P CIRCUIT BRKR. MATCH (E) AIC RATING AND TYPE OF (E) CIRCUIT BRKRS.
NOTE 3 - BRKR MADE SPARE AFTER DEMO IN PHASE 4

Panel Name: RPN-3C

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

Existing Panel

Main Lugs Only: ____ Main Breaker: 150
Panel A.I.C. Rating: Existing

ID	Ckt #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Ckt #	ID
EX	1	PBPU-3B125	1	20								20	1	PBPU-3B125	2	EX
EX	3	PBPU-3B125a	1	20								20	1	PBPU-3B125	4	EX
EX	5	PBPU-3B125	1	20								20	1	PBPU-3B125c	6	EX
EX	7	ELEC WATER COOLER C3-17	1	20								20	1	RECS; C3-5	8	EX
EX	9	RECS; C3-17, C3-4, 3B125b, 125	1	20								20	1	RECS; 3B1525i, 3B125h	10	EX
EX	11	RECS; 3B175, 3B175a	1	20								20	1	RECS; 3B138, 125e, 125f, 125g	12	EX
EX	13	RECS; 3B174, 3B175	1	20								20	1	RECS; 3B146	14	EX
EX	15	RECS; 3B147ca	1	20								20	1	SPARE RM 3B146	16	EX
EX	17	SPARE RM 3B147	1	20								20	1	RECS; C3-16, C3-8, C3-6	18	EX
EX	19	SPARE 3B147a	1	20								20	1	LTS IN BATHROOM 3B180, 3B181	20	EX
EX	21	EXISTING LOAD	1	20											22	
EX	23	EXISTING LOAD	1	20								20	2	ICE MACHINE	24	EX
EX	25	LTS (P1-C2) IN RECOVERY	1	20								20	1	ELEVATOR LOBBY REC. HELP DESK	26	EX
EX	27	EXISTING LOAD	1	20								20	1	SPARE	28	EX
EX	29	EXISTING LOAD	1	20								20	1	SPARE	30	EX

Total Connected Load: | | (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)		1.00	
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:			VA

ELECTRICAL DATA

Total Conn. Load: ____ KVA
Total Conn. Load: ____ Amps
Total Demand Load: ____ KVA
Total Demand Load: ____ Amps
Main Bus Size: 225 Amps

PANEL INFORMATION

Location: ELEC. CLOSET 3B-176
Mounting: Surface Enclosure Type: Nema 1
Fed From: XFMR #41, 45KVA
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL NOTES

NOTE 1 - PANEL RPN-3C SHALL BE DEMOLISHED IN PHASE 4. ALL REMAINING CIRCUITS CONNECTED TO PANEL RPN-3C SHALL BE SPLICED AND EXTENDED TO NEW PANEL RPN-3C1.

LIGHTING FIXTURE SCHEDULE

TYPE	DIMENSIONS	DESCRIPTION	LAMPS QTY	LAMPS TYPE	BALLAST QUANTITY	VOLTS	MOUNTING	REMARKS
A1	2'x4'	DIRECT/INDIRECT BASKET TYPE TROFFER WITH PERFORATED METAL DIFFUSER AND GRID FLANGE	2	F32 T8	1	277V	RECESSED	GRID MOUNTED FIXTURE
A1A	2'x4'	DIRECT/INDIRECT GASKETED BASKET TYPE TROFFER WITH PERFORATED METAL DIFFUSER AND GRID FLANGE	2	F32 T8	1	277V	RECESSED	GRID MOUNTED FIXTURE. FIXTURE SHALL MEET ALL ANTI-MICROBIAL REQUIREMENTS FOR OPERATING ROOM LIGHT FIXTURE
A2	2'x4'	OPERATING ROOM GRADE TROFFER. ALUMINUM HOUSING, 0.125 ACRYLIC LENS, GASKETING AND GRID FLANGE	6	F32 T8	2	277V	RECESSED	GRID MOUNTED. FIXTURE SHALL MEET ALL ANTI-MICROBIAL REQUIREMENTS FOR OPERATING ROOM LIGHT FIXTURE.
A3	2'x4'	DIRECT/INDIRECT BASKET TYPE TROFFER WITH LUMINOUS SIDE PANELS AND SWING DOWN LENSES AND GRID FLANGE. BASIS OF DESIGN IS VISA LIGHTING UNITY LINE.	7	F17 T8	3	277V	RECESSED	GRID MOUNTED FIXTURE. FIXTURE IS CAPABLE OF AMBIENT, READING, AND EXAM LIGHT LEVELS.
A3A	2'x4'	DIRECT/INDIRECT GASKETED BASKET TYPE TROFFER WITH LUMINOUS SIDE PANELS AND SWING DOWN LENSES AND GRID FLANGE. BASIS OF DESIGN IS VISA LIGHTING UNITY LINE.	7	F17 T8	3	277V	RECESSED	GRID MOUNTED FIXTURE. FIXTURE IS CAPABLE OF AMBIENT, READING, AND EXAM LIGHT LEVELS. PROVIDE WARM WHITE LAMPS. FIXTURE SHALL MEET ALL ANTI-MICROBIAL REQUIREMENTS FOR OPERATING ROOM LIGHT FIXTURE.
A3C	2'x4'	DIRECT/INDIRECT BASKET TYPE TROFFER WITH LUMINOUS SIDE PANELS AND SWING DOWN LENSES AND GRID FLANGE. BASIS OF DESIGN IS VISA LIGHTING UNITY LINE.	4	F17 T8	2	277V	RECESSED	CORRIDOR FIXTURE. PROVIDE (2) LAMPS PER SIDE OF FIXTURE. PROVIDE WARM WHITE LAMPS.
A4	2'x4'	DIRECT/INDIRECT BASKET TYPE TROFFER WITH PERFORATED METAL DIFFUSER AND HARD CEILING FLANGE	2	F32 T8	1	277V	RECESSED	DRYWALL CEILING MOUNTED FIXTURE
A5	2'x4'	DIRECT/INDIRECT BASKET TYPE TROFFER WITH PERFORATED METAL DIFFUSER AND GRID FLANGE	3	F32 T8	1	277V	RECESSED	GRID MOUNTED FIXTURE
A6	2'x4'	OPERATING ROOM GRADE TROFFER. ALUMINUM HOUSING, 0.125 ACRYLIC LENS, GASKETING AND GRID FLANGE. BACKUP BATTERY BALLAST	6	F32 T8	2	277V	RECESSED	GRID MOUNTED FIXTURE. PROVIDE BATTERY BALLAST TO CONTROL 3 LAMPS IN THE EVENT OF LOSS OF POWER. FIXTURE SHALL MEET ALL ANTI-MICROBIAL REQUIREMENTS FOR OPERATING ROOM LIGHT FIXTURE.
B1	2'x2'	DIRECT/INDIRECT BASKET TYPE TROFFER WITH PERFORATED METAL DIFFUSER AND GRID FLANGE	2	F17 T8	1	277V	RECESSED	GRID MOUNTED FIXTURE
B2	2'x2'	DIRECT/INDIRECT BASKET TYPE TROFFER WITH PERFORATED METAL DIFFUSER AND HARD CEILING FLANGE	2	F17 T8	1	277V	RECESSED	DRYWALL CEILING MOUNTED FIXTURE
B3	2'x2'	OPERATING ROOM GRADE TROFFER. ALUMINUM HOUSING, 0.125 ACRYLIC LENS AND GRID FLANGE	4	F17 T8	1	277V	RECESSED	GRID MOUNTED FIXTURE
B4	2'x2'	OPERATING ROOM GRADE DIMMABLE TROFFER. ALUMINUM HOUSING, 0.125 ACRYLIC LENS AND DRYWALL FLANGE	3	F17 T8	1	277V	RECESSED	PROVIDE DIMMING BALLAST
C	5" H x 2" D	ASYMMETIC WALL MOUNTED INDIRECT LED LIGHT. EXTRUDED ALUMINUM FRAME. EXTRUDED LATCHING SYSTEM.	LED	3000 DEGREE LEDS	1	277V	WALL	BASIS OF DESIGN IS AMERLUX FINO LINE. PROVIDE LENGTH PER ARCHITECTURAL DRAWINGS.
D1	6" APERTURE	VERTICAL DOWNLIGHT WITH WHITE TRIM	1	26W DTT	1	277V	RECESSED	
D1A	6" APERTURE	VERTICAL DOWNLIGHT WITH WHITE TRIM AND GASKETING	1	26W DTT	1	277V	RECESSED	PROVIDE LENS SO FIXTURE MEETS ALL ANTI-MICROBIAL REQUIREMENTS FOR OPERATING ROOM LIGHT FIXTURES.
D2	6" APERTURE	WET LISTED VERTICAL DOWNLIGHT WITH WHITE TRIM AND LENS	1	26W DTT	1	277V	RECESSED	
L1	1'x4'	OPERATING ROOM GRADE TROFFER. ALUMINUM HOUSING, 0.125 ACRYLIC LENS, GASKETING AND GRID FLANGE	3	F32 T8	1	277V	RECESSED	GRID MOUNTED. FIXTURE SHALL MEET ALL ANTI-MICROBIAL REQUIREMENTS FOR OPERATING ROOM LIGHT FIXTURE.
L2	6"x4'	LINEAR FLUORESCENT FIXTURE WITH ALUMINUM HOUSING, OPAL OPAQUE LENS AND HARD CEILING FLANGE	2	F32 T8	1	277V	RECESSED	DRYWALL CEILING MOUNTED FIXTURE
L3	1'x4'	DIRECT/INDIRECT BASKET TYPE TROFFER WITH PERFORATED METAL DIFFUSER AND GRID FLANGE	2	F32 T8	1	277V	RECESSED	GRID MOUNTED FIXTURE
S	4'-0"	INDUSTRIAL STRIP WITH 10% UPLIGHT	1	F32 T8	1	277V	CHAIN SUSPENDED	PROVIDE WIRE GUARD CAGE.
U	4'-0"	LOW PROFILE LED UNDERCABINET FIXTURE. WHITE HOUSING	N/A	LED 3000K	1	277V	SURFACE	
X	N/A	VA STANDARD EXIT SIGN. EDGE LIT, RED LED ON MIRROR	N/A	LED	N/A	277V	SURFACE	SEE PLANS FOR MOUNTING AND DIRECTIONAL ARROW REQUIREMENTS
Y		JELLY JAR FIXTURE	1	PLT 26W	1	277V	SURFACE	
Y2		WET LISTED JELLY JAR FIXTURE	1	PLT 26W	1	120V	SURFACE	

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

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Drawing Title: ELECTRICAL PANEL SCHEDULES ELECTRICAL CLOSET 3B-176

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Location: HUNTINGTON, WV

Date: 01-15-2016 | Checked: MC | Drawn: MR

Project Number: 581-13-101

Building Number: 1S

Drawing Number: E6.05

Office of Construction and Facilities Management

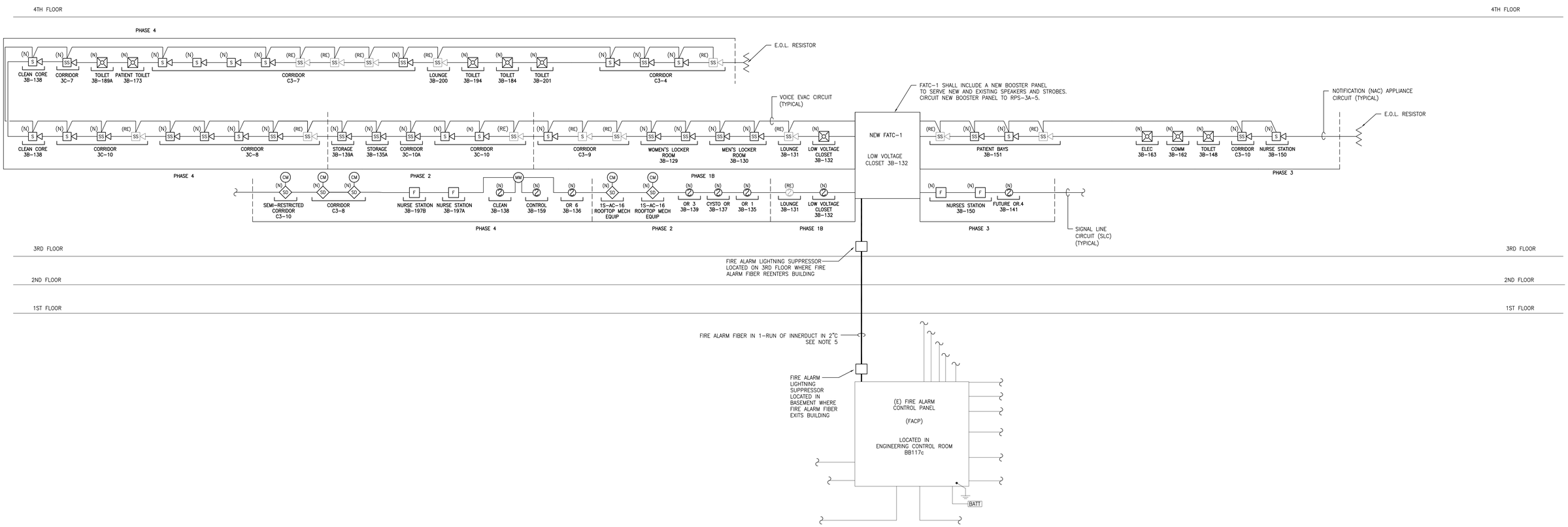
Department of Veterans Affairs

VA FORM 08-6231

P:\0499_DVA\1-0499-0025 Huntington WV Renovate Surgical Service and Operating Rooms\2_Drawings\1_Cad\1_Current Submittal Phase\7_Electrical\E6.05.dwg 2-29-16 11:26:23 AM dread

GENERAL SHEET NOTES:

1. REFER TO DRAWING E0.01 AND E0.02 FOR NOTES, SYMBOLS & ABBREVIATIONS.
2. ALL NEW WORK SHALL BE DONE IN PHASE 1, UNLESS OTHERWISE NOTED.



BUILDING 1 PARTIAL FIRE ALARM RISER DIAGRAM

1 SCALE: NONE

NOTES:

1. REFER TO PLANS FOR QUANTITY AND LOCATION OF ALL DEVICES.
2. WIRE AND CONDUIT SIZES AS PER MANUFACTURER'S SPECIFICATIONS.
3. THE APPROVED FIRE ALARM VENDOR SHALL UPGRADE THE EXISTING FIREWORKS SOFTWARE PACKAGE TO INCLUDE THE ADDITIONAL FIRE ALARM COMPONENTS THAT ARE BEING INSTALLED UNDER THIS PROJECT. SUBJECT TO COORDINATION WITH THE VA. ALL WORK THAT TIES INTO AND UPGRADES EXISTING VA FIRE ALARM SYSTEM SHALL BE ACCOMPLISHED BY ELECTRONICS SPECIALTIES, DUNBAR, WV.
4. ELECTRICAL CONTRACTOR SHALL VERIFY SLC AND NAC CIRCUIT CAPACITIES AND VOLTAGE DROP. PROVIDE ADDITIONAL POWER SUPPLY AND STROBE EXTENDER PANELS IN LOW VOLTAGE CLOSET 3B-132 AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
5. SEE CONDUIT ROUTING PLAN E1.01 FOR ROUTING OF NEW FIRE ALARM CONDUIT. FIRE ALARM VENDOR SHALL COORDINATE FIBER STRAND REQUIREMENTS.
6. ALL FIRE ALARM WIRING SHALL BE INSTALLED AS PLENUM RATED CABLE. DO NOT INSTALL FIRE ALARM DEVICE WIRING IN CONDUIT.

FIRE ALARM SYSTEM INPUT OUTPUT SEQUENCE OF OPERATIONS MATRIX

INPUT DEVICE \ OUTPUT DEVICE	1 SOUND GENERAL BUILDING ALARM FOR OTHER AND HIGH RISE (NON-HEALTH CARE). SEE SEC. 7.2.1	2 NOTIFY NECESSARY STAFF FOR RESPONSE FOR HEALTH CARE AND HIGH RISE BUILDING ONLY (ALARM SIGNAL MAY BE DIFFERENT ON DIFFERENT FLOORS).	3 NOTIFY FIRE DEPARTMENT.	4 INITIAL SUPERVISORY SIGNAL TO A 24-HOUR MANNED LOCATION FOR IMMEDIATE RESPONSE	5 CLOSE ASSOCIATE SMOKE BARRIER DOORS ON THE FLOOR.	6 CLOSE DAMPERS ON FAN PROXIMATED TO DETECTOR.	7 SHUT DOWN AIR HANDLER SERVED BY THE DETECTOR.	8 RECALL ELEVATOR	9 INITIATE ELEVATOR SHUT DOWN AND DISCONNECT ELEVATOR POWER.	10 OPEN **LOCKED EGRESS DOORS ON FLOOR OF FIRE ORIGIN.	
DUCT SMOKE DETECTOR*				X		X	X (a)				
AREA SMOKE DETECTOR*	X	X	X							X	
DOOR RELEASE SMOKE DETECTOR*	X	X	X		X	X				X	
ELEVATOR SMOKE DETECTOR*	X	X	X					X			
MANUAL PULL STATION	X	X	X		X					X	
SPRINKLER WATERFLOW/ PRESSURE SWITCH	X	X	X		X					X	
WATER CONTROL VALVE TAMPER				X							

NOTES:

DUCT DETECTORS, TO NOTIFY BUILDING OCCUPANTS. ONLY INSTALL SMOKE DETECTORS WHEN REQUIRED BY THE LIFE SAFETY CODE OR ITS REFERENCES.

** - THOSE DOORS THAT ARE REQUIRED TO BE TIED TO THE FIRE ALARM SYSTEM SUCH AS DELAYED EGRESS AND ACCESS CONTROLLED DOORS.

(a) - DO NOT PROVIDE DUCT DETECTORS IN DEDICATED (100%) EXHAUST FANS, THEY SHOULD CONTINUE TO RUN.

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

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THOMAS L. CHAPMAN — STATE OF NEW JERSEY — PROFESSIONAL ENGINEER — 24GE02134400

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Drawing Title: FIRE ALARM DETAILS	Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS	Project Number: 581-13-101	Office of Construction and Facilities Management
Approved: Medical Center Director	Location: HUNTINGTON, WV	Building Number: 1S	
	Date: 01-15-2016 / Checked: MC / Drawn: MR	Drawing Number: FA5.01	Department of Veterans Affairs

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