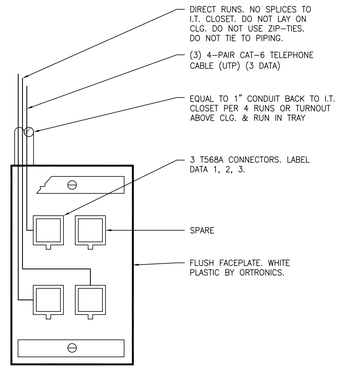


NOTES:

1. TERMINATE & TEST ALL WIRING.

3 TYPICAL TELE/DATA OUTLET DETAIL

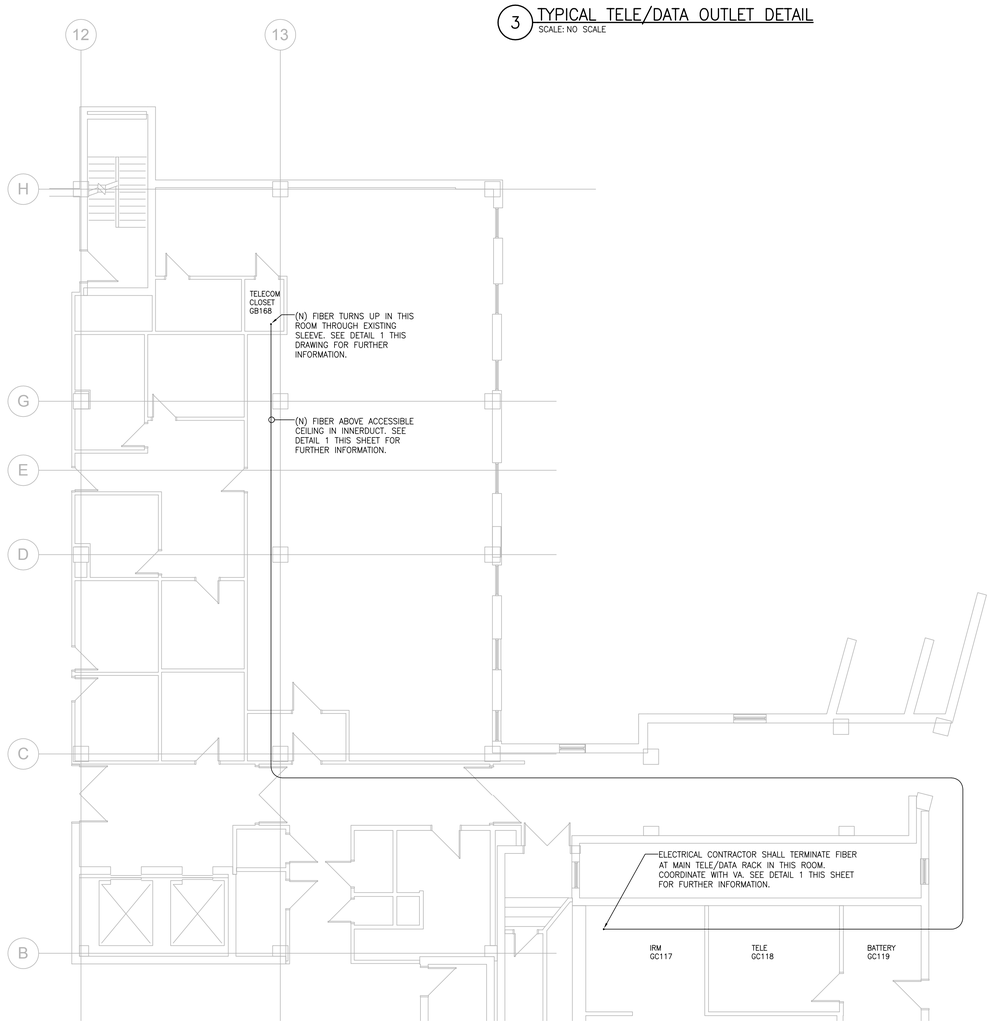
SCALE: NO SCALE

GENERAL SHEET NOTES:

1. SEE DWG. E0.01 AND E0.02 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. NEW WORK SHALL BE SUBJECT TO DIRECTION AND APPROVAL OF THE VA. SHUTDOWNS OR SERVICE INTERRUPTIONS REQUIRED SHALL BE CLOSELY COORDINATED WITH THE VA, IN MULTIPLE PHASES, MAINTAINING SERVICES FOR REGULAR VA WORK HOURS. SHUTDOWNS OR SERVICE INTERRUPTIONS REQUIRED SHALL BE COORDINATED WITH AND APPROVED BY THE VA BEFORE THEY ARE IMPLEMENTED. SUFFICIENT ADVANCE NOTICE MUST BE PROVIDED TO THE OWNER.
3. PRIOR TO ANY WORK, E.C. WILL DO A WALK THROUGH WITH THE FACILITY PROJECT LEAD AND CHIEF NETWORK OPERATIONS PERSONNEL TO INSPECT ALL THE VOICE AND DATA INSTALLATION WORK. E.C. WILL IDENTIFY IT EQUIPMENT PLACEMENT AND WILL FINALIZE THE LOCATION OF THE CABLE INSTALLATIONS. ALL I.T. CONNECTIONS SHALL BE APPROVED AND COORDINATED WITH THE FACILITY SERVICE PROJECT LEAD AND CHIEF NETWORK OPERATIONS PERSONNEL OF THE VA HUNTINGTON, WEST VIRGINIA FACILITY.
4. CONDUIT FOR DATA OUTLETS SHALL BE CLIPPED TO CABLE TRAY WHEREVER POSSIBLE.

SHEET KEYNOTES:

1. E.C. TO PROVIDE OPEN FRAME RACK CABINET TO MATCH EXISTING IT RACKS IN OTHER INSTALLATIONS ON THE VA CAMPUS.
   E.C. TO PROVIDE AND INSTALL ALL THE COMPONENTS FOR THE NEW IT RACKS SUCH AS; CABLE MANAGEMENT SUPPORT BARS FOR PATCH PANEL, CAT 6 ENCLOSURES ACCESSORIES, ADAPTER PANELS, PATCH PANELS AND ANY OTHER EQUIPMENT/ACCESSORY REQUIRED.
   PROVIDE FOUR (4) 96 PORT, CAT 6 RATED PATCH PANELS. E.C. SHALL TERMINATE ALL WIRING, TEST AND PROVIDE REPORT TO VA.
   PRIOR TO ANY PURCHASE, E.C. TO COORDINATE ALL THE COMPONENTS FOR THE NEW IT RACKS WITH VA IT FACILITY DEPARTMENT.
2. E.C. TO PROVIDE AND INSTALL TWO POWER STRIPS ON EACH SIDE OF THE NEW RACK. EACH POWER STRIP WILL HAVE A TOTAL OF (10) 5-15 STANDARD RECEPTACLES CONNECTED TO THE RACK MOUNTED UPS. THE UPS SHALL THEN BE WIRED TO A DEDICATED L5-30R TWIST LOCK RECEPTACLE MOUNTED ON THE WALL. REFER TO DRAWING P3-EP1.01 FOR POWER CONNECTIONS.
3. E.C. TO PROVIDE AND INSTALL SMART-UPS 3000 RACKMOUNT BLACK AS FOLLOW:
   - OUTPUT POWER CAPACITY: 3000 VA, NOMINAL OUTPUT VOLTAGE : 120V, OUTPUT CONNECTIONS: (8) NEMA 5-15R
   - NOMINAL INPUT VOLTAGE: 120V, INPUT CONNECTION TYPE: NEMA L5-30P, CORD LENGTH : 8 FT
   - BATTERY TYPE: MAINTENANCE-FREE SEALED LEAD-ACID BATTERY WITH SUSPENDED ELECTROLYTE, LEAKPROOF.
   - TYPICAL BACKUP TIME AT FULL LOAD: 5.7 MINUTES, TYPICAL BACKUP TIME AT HALF LOAD: 16.8 MINUTES.
   - INTERFACE PORT AND CONTROL PANEL WITH LED STATUS DISPLAY WITH LOAD AND BATTERY BAR-GRAPHS.
   - AUDIBLE ALARM WHEN ON BATTERY
   - EMERGENCY POWER OFF
   - SURGE ENERGY RATING: 880 JULES
   - DIMENSIONS: RACK HEIGHT 3U.
4. E.C. TO PROVIDE AND INSTALL CONNECTIONS BETWEEN NEW RACK AND EXISTING FIBER NETWORK.
   CONNECTIONS SHALL BE DONE IN MULTIMODE OPTICAL FIBER, 12-STRANDED PAIR TERMINATED, 62.5/125, SC ENDS AND CERTIFIED.
5. ALL NEW VOICE AND DATA JACKS SHALL BE CATEGORY 6-COMPLIANT EIGHT POSITION RJ-45 NON-KEYED (EIA/TIA 568A).
   ALL NEW OUTLETS SHALL BE QUADPLEX JACKS WITH QUADPLEX FLUSH MOUNTED FACEPLATE.
   CATEGORY 6 WIRING SHALL BE INSTALLED FROM EACH ACTIVE JACKS (REFER TO DETAIL 3/E5.03) TO IT RACK. THE WIRING SHALL BE OF A TYPE DESIGNED TO SUPPORT LEVEL FIVE DATA COMMUNICATION (NOT LESS THAN 100MHz/Mpbs).
   EACH UNSHIELD PAIR WIRING SHALL BE ROUTED THROUGH THE NEW CORRIDOR. CONDUIT SHALL BE CLIPPED TO CABLE TRAY WHEREVER POSSIBLE.
6. PRIOR TO ANY WORK, E.C. TO PERFORM A WALK THROUGH WITH THE FACILITY SERVICE PROJECT LEAD AND CHIEF NETWORK OPERATIONS PERSONNEL TO INSPECT THE ROUTE, QUANTITY, AVAILABLE CABLE SLACK, AND EXACT LOCATION OF EXISTING RJ-45 IT ACCESS POINTS IN THE EXISTING AREAS. MAKE ADJUSTMENTS TO THE INSTALLATION TO SUIT FIELD CONDITIONS.
7. E.C. TO PROVIDE AND INSTALL A METALLIC LADDER TYPE CABLE TRAY 12"W x 4"H. REFER TO LOW VOLTAGE PHASING DRAWINGS FOR EXACT LOCATION OF TRAY. CABLE TRAY SUPPORTS SHALL COMPLY WITH NEC-392, NEMA V1 AND NEMA FG1 STANDARDS.
   E.C. TO COORDINATE ELEVATION OF CABLE TRAY WITH NEW CEILING LAYOUT.

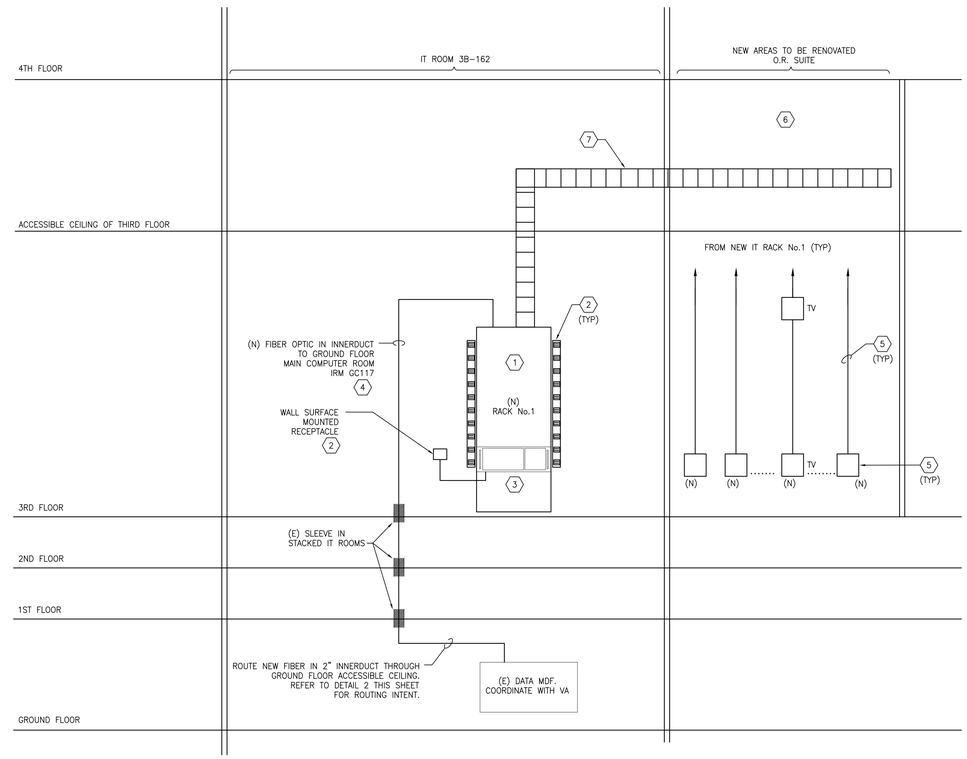


2 GROUND FLOOR TELECOMMUNICATIONS ROUTING PLAN

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

NOTES:

1. SUGGESTED ROUTING PATH SHOW CAN BE ALTERED IN FIELD. COORDINATE ANY DEVIATIONS WITH HUNTINGTON VAMC COR PRIOR TO RUNNING FIBER.
2. E.C. SHALL BE RESPONSIBLE FOR ANY ICRA PARTITIONS REQUIRED FOR WORK IN THIS AREA.



1 TELECOMMUNICATIONS WIRING SCHEMATIC DIAGRAM– CONNECTIONS TO NEW DATA RACK IN ROOM 3B–162

SCALE: N.T.S.

NOTES:

1. E.C. OR E.C.'S APPROVED SUBCONTRACTOR SHALL TERMINATE FIBER, MAKE FINAL CONNECTIONS, AND TEST CABLE. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

COMMONWEALTH OF WEST VIRGINIA
REGISTERED PROFESSIONAL ENGINEER
THOMAS L. CHAPMAN
NO. PE24404381

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-5002

SDVOSB CVE

PF&A
PF&A DESIGN
ARCHITECTURE, PLANNING, INTERIORS
World Trade Center
101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: ELECTRICAL DETAILS

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Location: HUNTINGTON, WV

Date: 10.31.2014 | Checked: MC | Drawn: DR

Project Number: 581-13-101

Building Number: 1S

Drawing Number: E5.03

Dwg. 136 of 178

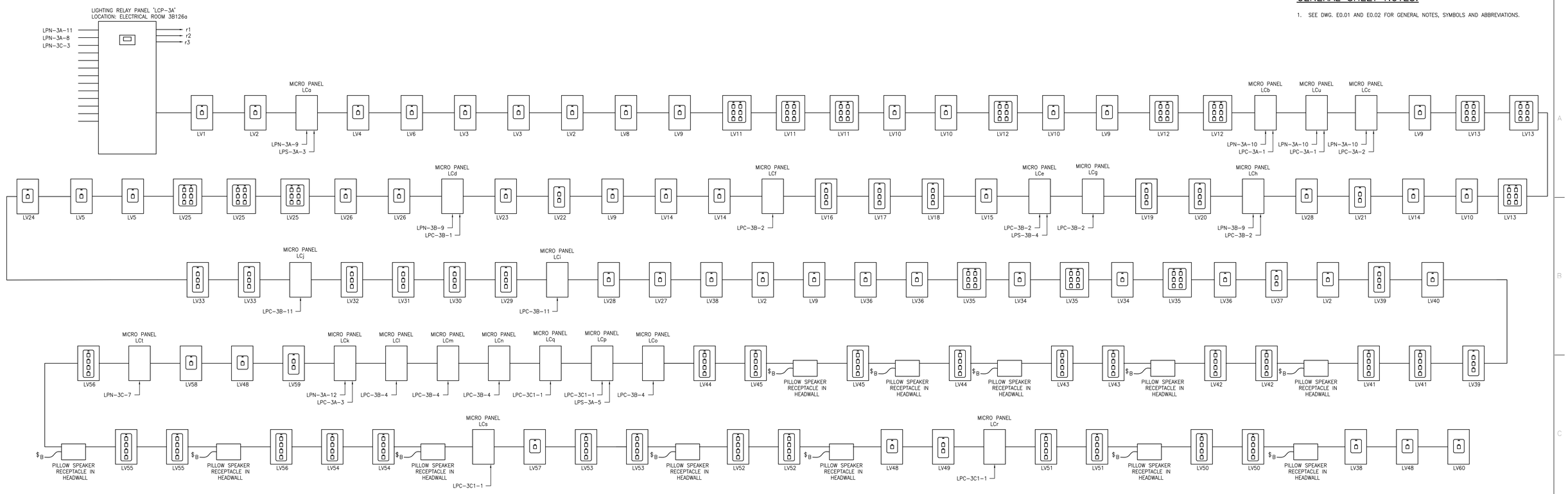
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

GENERAL SHEET NOTES:

1. SEE DWG. E0.01 AND E0.02 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.



1 LIGHTING CONTROL RISER DIAGRAM

SCALE: SCHEMATIC

NOTES:

1. ALL INTERCONNECTING WIRES BETWEEN DEVICES SHOWN SHALL BE CAT 5 NETWORK CABLE.
2. PROVIDE WIRING BETWEEN PILLOW SPEAKER RECEPTACLE AND MICROPANEL. WIRING SHALL BE AS RECOMMENDED BY MANUFACTURER.

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
r1	LV2 (5)	TOGGLE: ON/OFF	CORRIDOR C3-9, CORRIDOR C3-8	ALL NORMAL POWER FIXTURES	LPN-3A-11
r2	LV9 (4)	TOGGLE: ON/OFF	CORRIDOR 3C-10	ALL NORMAL POWER FIXTURES	LPN-3A-8
r3	LV38 (3)	TOGGLE: ON/OFF	CORRIDOR C3-16, C3-18, SUB-WAITING 3C-17	ALL NORMAL POWER FIXTURES	LPN-3C-3
r4					
r5					
r6					
r7					
r8					
r9					
r10					
r11					
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r32					

2 LIGHTING CONTROL PANEL "LCP-3A"

SCALE: SCHEMATIC

NOTES:

1. LIGHTING RELAY PANEL "LCP-3A" CONTAINS THE ASTRONOMICAL TIME CLOCK AND PROGRAMMING MODULES TO CONTROL THE LIGHTING CIRCUITS IN THE O.R. SUITE.
2. COORDINATE SWITCH PLATE AND SWITCH BUTTON COLOR WITH ARCHITECT AND SPECIFICATIONS.
3. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF SWITCHES.

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
ra1	LV1 (1)	TOGGLE: ON/OFF	TEMP GAS BOTTLE STORAGE 3B-127	ALL FIXTURES	LPN-3A-9
ra2	LV3 (2)	TOGGLE: ON/OFF	LOUNGE 3B-131, VESTIBULE 3B-131A	ALL NORMAL POWER FIXTURES	LPN-3A-9
ra3	LV3 (2)	TOGGLE: ON/OFF	LOUNGE 3B-131	ALL EMERG. POWER FIXTURES	LPS-3A-3
ra4	LV4 (1)	TOGGLE: ON/OFF	WOMENS LOCKER ROOM 3B-129	ALL NORMAL POWER FIXTURES	LPN-3A-9
ra5	LV4 (1)	TOGGLE: ON/OFF	WOMENS LOCKER ROOM 3B-129	ALL EMERG. POWER FIXTURES	LPS-3A-3
ra6	LV6 (1)	TOGGLE: ON/OFF	MENS LOCKER ROOM 3B-130	ALL NORMAL POWER FIXTURES	LPN-3A-9
ra7	LV6 (1)	TOGGLE: ON/OFF	MENS LOCKER ROOM 3B-130	ALL EMERG. POWER FIXTURES	LPS-3A-3

3 MICRO PANEL "LCa"

SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rb1	LV11 (3)	TOGGLE: ON/OFF	OR 1 3B-135	'a' FIXTURES	LPC-3A-1
rb2	LV11 (3)	TOGGLE: ON/OFF	OR 1 3B-135	'b' FIXTURES	LPC-3A-1
rb3	LV11 (3)	TOGGLE: ON/OFF	OR 1 3B-135	'c' FIXTURES	LPN-3A-10
rb4	LV11 (3)	TOGGLE: ON/OFF	OR 1 3B-135	D1A FIXTURES	LPN-3A-10
rb5	LV12 (3)	TOGGLE: ON/OFF	CYSTO OR 3 3B-137	D1A FIXTURES	LPN-3A-10
rb6	LV12 (3)	TOGGLE: ON/OFF	CYSTO OR 3 3B-137	'd' FIXTURES	LPC-3A-1
rb7	LV12 (3)	TOGGLE: ON/OFF	CYSTO OR 3 3B-137	'e' FIXTURES	LPC-3A-1
rb8	LV12 (3)	TOGGLE: ON/OFF	CYSTO OR 3 3B-137	'f' FIXTURES	LPN-3A-10

4 MICRO PANEL "LCb"

SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rc1	LV13 (3)	TOGGLE: ON/OFF	OR 3 3B-139	'g' FIXTURES	LPC-3A-2
rc2	LV13 (3)	TOGGLE: ON/OFF	OR 3 3B-139	'h' FIXTURES	LPC-3A-2
rc3	LV13 (3)	TOGGLE: ON/OFF	OR 3 3B-139	'i' FIXTURES	LPN-3A-10
*rc4	FUTURE	TOGGLE: ON/OFF	OR 4 3B-141	FOR FUTURE O.R. 4 'd' FIXTURES	LPC-3A-2
*rc5	FUTURE	TOGGLE: ON/OFF	OR 4 3B-141	FOR FUTURE O.R. 4 'e' FIXTURES	LPC-3A-2
rc6	LV24 (1)	TOGGLE: ON/OFF	OR 4 3B-141	'S' FIXTURES. TO BE REUSED FOR FUTURE	LPN-3A-10
*rc7	FUTURE	TOGGLE: ON/OFF	OR 4 3B-141	FOR FUTURE O.R. 4 DOWNLIGHT FIXTURES	LPN-3A-10
rc8	LV13 (3)	TOGGLE: ON/OFF	OR 3 3B-139	D1A FIXTURES	LPN-3A-10

5 MICRO PANEL "LCc"

SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rd1	LV25 (3)	TOGGLE: ON/OFF	HYBRID OR 3B-143	'g' FIXTURES	LPC-3B-1
rd2	LV25 (3)	TOGGLE: ON/OFF	HYBRID OR 3B-143	'n' FIXTURES	LPC-3B-1
rd3	LV25 (3)	TOGGLE: ON/OFF	HYBRID OR 3B-143	'i' FIXTURES	LPN-3B-9
rd4	LV26 (2)	TOGGLE: ON/OFF	CONTROL 3B-144	ALL FIXTURES	LPC-3B-1
rd5	LV22 (1)	TOGGLE: ON/OFF	FROZEN SECTION 3B-142	'a' INBOUND LAMPS	LPC-3B-1
rd6	LV22 (1)	TOGGLE: ON/OFF	FROZEN SECTION 3B-142	'b' OUTBOUND LAMPS	LPC-3B-1
rd7	LV23 (1)	TOGGLE: ON/OFF	ANESTHESIA WORKROOM 3B-140	ALL FIXTURES	LPC-3B-1
rd8	LV25 (3)	TOGGLE: ON/OFF	HYBRID OR 3B-143	D1A FIXTURES	LPN-3B-9

6 MICRO PANEL "LCd"

SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
re1	LV14 (3)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	CRITICAL POWER 'a' FIXTURES	LPC-3B-2
re2	LV14 (3)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	LIFE SAFETY PWR 'a' FIXTURES	LPS-3B-4
re3	LV14 (3)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	CRITICAL POWER 'b' FIXTURES	LPC-3B-2
re4	LV14 (3)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	LIFE SAFETY PWR 'b' FIXTURES	LPS-3B-4
re5	LV21 (1)	TOGGLE: ON/OFF	NURSE STATION 3B-150	CRITICAL POWER 'c' FIXTURES	LPC-3B-2
re6	LV21 (1)	TOGGLE: ON/OFF	NURSE STATION 3B-150	CRITICAL POWER 'd' FIXTURES	LPC-3B-2
re7	LV15 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	CRITICAL POWER 'e' FIXTURES	LPC-3B-2
re8	LV28 (2)	TOGGLE: ON/OFF	MEDS 3B-152	ALL FIXTURES	LPC-3B-2

7 MICRO PANEL "LCe"

SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rf1	LV16 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'f' BALLAST – AMBIENT LTG.	LPC-3B-2
rf2	LV16 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'g' BALLAST – READING LTG.	LPC-3B-2
rf3	LV16 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'h' BALLAST – EXAM LTG.	LPC-3B-2
rf4	LV17 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'i' BALLAST – AMBIENT LTG.	LPC-3B-2
rf5	LV17 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'j' BALLAST – READING LTG.	LPC-3B-2
rf6	LV17 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'k' BALLAST – EXAM LTG.	LPC-3B-2
rf7					
rf8					

8 MICRO PANEL "LCf"

SCALE: SCHEMATIC

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA
REGISTERED PROFESSIONAL ENGINEER
THOMAS L. CHAPMAN
NO. PE044434
REMICK MILLER

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-9302

SDVOSB CERTIFICATION VERIFIED VETERAN OWNED SMALL BUSINESS CVE

PF&A
PF&A DESIGN
ARCHITECTURE, PLANNING, INTERIORS
World Trade Center
101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: ELECTRICAL LIGHTING DETAILS

Approved: Medical Center Director

Project Title: **RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS**

Project Number: 581-13-101

Building Number: 1S

Location: HUNTINGTON, WV

Date: 10.31.2014 | Checked: MC | Drawn: DR

Drawing Number: E5.04

Dwg. 137 of 178

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

GENERAL SHEET NOTES:

1. SEE DWG. E0.01 AND E0.02 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rg1	LV18 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'l' BALLAST - AMBIENT LTG.	LPC-3B-2
rg2	LV18 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'm' BALLAST - READING LTG.	LPC-3B-2
rg3	LV18 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'n' BALLAST - EXAM LTG.	LPC-3B-2
rg4	LV19 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'o' BALLAST - AMBIENT LTG.	LPC-3B-2
rg5	LV19 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'p' BALLAST - READING LTG.	LPC-3B-2
rg6	LV19 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'q' BALLAST - EXAM LTG.	LPC-3B-2
rg7					
rg8					

1 MICRO PANEL "LCg"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rh1	LV20 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'r' BALLAST - AMBIENT LTG.	LPC-3B-2
rh2	LV20 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	's' BALLAST - READING LTG.	LPC-3B-2
rh3	LV20 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	't' BALLAST - EXAM LTG.	LPC-3B-2
rh4	LV29 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'c' BALLAST - AMBIENT LTG.	LPC-3B-2
rh5	LV29 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'd' BALLAST - READING LTG.	LPC-3B-2
rh6	LV29 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'e' BALLAST - EXAM LTG.	LPC-3B-2
rh7	LV27 (1)	TOGGLE: ON/OFF	LOUNGE 3B-149	ALL NORMAL FIXTURES	LPN-3B-9
rh8	LV27 (1)	TOGGLE: ON/OFF	LOUNGE 3B-149	ALL LIFE SAFETY FIXTURES	LPC-3B-2

2 MICRO PANEL "LCh"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
ri1	LV30 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'f' BALLAST - AMBIENT LTG.	LPC-3B-11
ri2	LV30 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'g' BALLAST - READING LTG.	LPC-3B-11
ri3	LV30 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'h' BALLAST - EXAM LTG.	LPC-3B-11
ri4	LV31 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'i' BALLAST - AMBIENT LTG.	LPC-3B-11
ri5	LV31 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'j' BALLAST - READING LTG.	LPC-3B-11
ri6	LV31 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'k' BALLAST - EXAM LTG.	LPC-3B-11
ri7					
ri8					

3 MICRO PANEL "LCi"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rj1	LV32 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'l' BALLAST - AMBIENT LTG.	LPC-3B-11
rj2	LV32 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'm' BALLAST - READING LTG.	LPC-3B-11
rj3	LV32 (1)	TOGGLE: ON/OFF	PATIENT BAYS 3B-151	'n' BALLAST - EXAM LTG.	LPC-3B-11
rj4	LV33 (2)	TOGGLE: ON/OFF	ISOLATION ROOM 3B-155	'o' BALLAST - AMBIENT LTG.	LPC-3B-11
rj5	LV33 (2)	TOGGLE: ON/OFF	ISOLATION ROOM 3B-155	'p' BALLAST - READING LTG.	LPC-3B-11
rj6	LV33 (2)	TOGGLE: ON/OFF	ISOLATION ROOM 3B-155	'q' BALLAST - EXAM LTG.	LPC-3B-11
rj7	LV33 (2)	TOGGLE: ON/OFF	ISOLATION ROOM 3B-155	'm' FIXTURES	LPC-3B-11
rj8					

4 MICRO PANEL "LCj"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rk1	LV35 (3)	TOGGLE: ON/OFF	ORTH OR 3B-136	'a' FIXTURES	LPC-3A-3
rk2	LV35 (3)	TOGGLE: ON/OFF	ORTH OR 3B-136	'b' FIXTURES	LPC-3A-3
rk3	LV35 (3)	TOGGLE: ON/OFF	ORTH OR 3B-136	'c' FIXTURES	LPN-3A-12
rk4	LV36 (3)	TOGGLE: ON/OFF	CLEAN CORE 3B-138	ALL FIXTURES	LPC-3A-3
rk5	LV34 (2)	TOGGLE: ON/OFF	EQUIPMENT STORAGE 3B-134	ALL FIXTURES	LPC-3A-3
rk6	LV37 (1)	TOGGLE: ON/OFF	CONTROL 3B-159	'd' FIXTURES	LPC-3A-3
rk7	LV37 (1)	TOGGLE: ON/OFF	CONTROL 3B-159	'e' FIXTURES	LPC-3A-3
rk8	LV35 (3)	TOGGLE: ON/OFF	ORTH OR 3B-136	D1A FIXTURES	LPN-3A-12

5 MICRO PANEL "LCk"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
*rl1	FUTURE	TOGGLE: ON/OFF	PAIN MANAGEMENT 3B-167	FOR FUTURE 'g' BALLAST - AMBIENT LTG.	LPC-3B-4
*rl2	FUTURE	TOGGLE: ON/OFF	PAIN MANAGEMENT 3B-167	FOR FUTURE 'h' BALLAST - READING LTG.	LPC-3B-4
*rl3	FUTURE	TOGGLE: ON/OFF	PAIN MANAGEMENT 3B-167	FOR FUTURE 'i' BALLAST - EXAM LTG.	LPC-3B-4
rl4	LV40 (1)	TOGGLE: ON/OFF	PAIN MANAGEMENT 3B-167	'S' FIXTURES. TO BE REUSED FOR FUTURE	LPN-3B-13
rl5	LV39 (2)	TOGGLE: ON/OFF	PAIN MANAGEMENT 3B-166	'j' BALLAST - AMBIENT LTG.	LPC-3B-4
rl6	LV39 (2)	TOGGLE: ON/OFF	PAIN MANAGEMENT 3B-166	'k' BALLAST - READING LTG.	LPC-3B-4
rl7	LV39 (2)	TOGGLE: ON/OFF	PAIN MANAGEMENT 3B-166	'l' BALLAST - EXAM LTG.	LPC-3B-4
rl8	LV39 (2)	TOGGLE: ON/OFF	PAIN MANAGEMENT 3B-166	'm' FIXTURES	LPC-3B-4

6 MICRO PANEL "LCl"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rm1	LV41 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-189	'n' BALLAST - AMBIENT LTG.	LPC-3B-4
rm2	LV41 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-189	'o' BALLAST - READING LTG.	LPC-3B-4
rm3	LV41 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-189	'p' BALLAST - EXAM LTG.	LPC-3B-4
rm4	LV41 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-189	'q' FIXTURES	LPC-3B-4
rm5	LV42 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-191	'r' BALLAST - AMBIENT LTG.	LPC-3B-4
rm6	LV42 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-191	's' BALLAST - READING LTG.	LPC-3B-4
rm7	LV42 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-191	't' BALLAST - EXAM LTG.	LPC-3B-4
rm8	LV42 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-191	'u' FIXTURES	LPC-3B-4

7 MICRO PANEL "LCm"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rn1	LV43 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-192	'v' BALLAST - AMBIENT LTG.	LPC-3B-4
rn2	LV43 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-192	'w' BALLAST - READING LTG.	LPC-3B-4
rn3	LV43 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-192	'x' BALLAST - EXAM LTG.	LPC-3B-4
rn4	LV43 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-192	'y' FIXTURES	LPC-3B-4
rn5	LV44 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-170	'aa' BALLAST - AMBIENT LTG.	LPC-3B-4
rn6	LV44 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-170	'bb' BALLAST - READING LTG.	LPC-3B-4
rn7	LV44 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-170	'cc' BALLAST - EXAM LTG.	LPC-3B-4
rn8	LV44 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-170	'dd' FIXTURES	LPC-3B-4

8 MICRO PANEL "LCn"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
ro1	LV45 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-171	'ee' BALLAST - AMBIENT LTG.	LPC-3B-4
ro2	LV45 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-171	'ff' BALLAST - READING LTG.	LPC-3B-4
ro3	LV45 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-171	'gg' BALLAST - EXAM LTG.	LPC-3B-4
ro4	LV45 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-171	'hh' FIXTURES	LPC-3B-4
ro5	LV50 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-178	'g' BALLAST - AMBIENT LTG.	LPC-3B-4
ro6	LV50 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-178	'h' BALLAST - READING LTG.	LPC-3B-4
ro7	LV50 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-178	'i' BALLAST - EXAM LTG.	LPC-3B-4
ro8	LV50 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-178	'j' FIXTURES	LPC-3B-4

9 MICRO PANEL "LCo"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rp1	LV48 (4)	TOGGLE: ON/OFF	CORRIDOR C3-7	CRITICAL 'a' FIXTURES	LPC-3C1-1
rp2	LV48 (4)	TOGGLE: ON/OFF	CORRIDOR C3-7	LIFE SAFETY 'a' FIXTURES	LPS-3A-5
rp3	LV48 (4)	TOGGLE: ON/OFF	CORRIDOR C3-7	CRITICAL 'b' FIXTURES	LPC-3C1-1
rp4	LV49 (1)	TOGGLE: ON/OFF	NURSE STATION 3B-197 SOUTH	'c' FIXTURES	LPC-3C1-1
rp5	LV49 (1)	TOGGLE: ON/OFF	NURSE STATION 3B-197 SOUTH	'd' FIXTURES	LPC-3C1-1
rp6	LV48 (4)	TOGGLE: ON/OFF	CORRIDOR C3-7	LIFE SAFETY 'a' FIXTURES	LPS-3A-5
rp7	LV58 (1)	TOGGLE: ON/OFF	NOURSHIMENT C3-7.3	'e' FIXTURES	LPC-3C1-1
rp8	LV57 (1)	TOGGLE: ON/OFF	LINEN/CRASH CART C3-7.2	'f' FIXTURES	LPC-3C1-1

10 MICRO PANEL "LCp"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rq1	LV59 (1)	TOGGLE: ON/OFF	NURSE STATION 3B-197 NORTH	'jj' FIXTURES	LPC-3C1-1
rq2	LV59 (1)	TOGGLE: ON/OFF	NURSE STATION 3B-197 NORTH	'kk' FIXTURES	LPC-3C1-1
rq3	LV60 (1)	TOGGLE: ON/OFF	STERILE STORAGE 3B-194	ALL FIXTURES	LPC-3C1-1
rq4					
rq5					
rq6					
rq7					
rq8					

11 MICRO PANEL "LCq"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rr1	LV51 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-180	'k' BALLAST - AMBIENT LTG.	LPC-3C1-1
rr2	LV51 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-180	'l' BALLAST - READING LTG.	LPC-3C1-1
rr3	LV51 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-180	'm' BALLAST - EXAM LTG.	LPC-3C1-1
rr4	LV51 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-180	'n' FIXTURES	LPC-3C1-1
rr5	LV52 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-181	'o' BALLAST - AMBIENT LTG.	LPC-3C1-1
rr6	LV52 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-181	'p' BALLAST - READING LTG.	LPC-3C1-1
rr7	LV52 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-181	'q' BALLAST - EXAM LTG.	LPC-3C1-1
rr8	LV52 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-181	'r' FIXTURES	LPC-3C1-1

12 MICRO PANEL "LCr"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rs1	LV53 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-184	's' BALLAST - AMBIENT LTG.	LPC-3C1-1
rs2	LV53 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-184	't' BALLAST - READING LTG.	LPC-3C1-1
rs3	LV53 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-184	'u' BALLAST - EXAM LTG.	LPC-3C1-1
rs4	LV53 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-184	'v' FIXTURES	LPC-3C1-1
rs5	LV54 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-186	'w' BALLAST - AMBIENT LTG.	LPC-3C1-1
rs6	LV54 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-186	'x' BALLAST - READING LTG.	LPC-3C1-1
rs7	LV54 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-186	'y' BALLAST - EXAM LTG.	LPC-3C1-1
rs8	LV54 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-186	'z' FIXTURES	LPC-3C1-1

13 MICRO PANEL "LCs"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
rt1	LV55 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-187	'aa' BALLAST - AMBIENT LTG.	LPC-3C1-1
rt2	LV55 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-187	'bb' BALLAST - READING LTG.	LPC-3C1-1
rt3	LV55 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-187	'cc' BALLAST - EXAM LTG.	LPC-3C1-1
rt4	LV55 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-187	'dd' FIXTURES	LPC-3C1-1
rt5	LV56 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-188	'ee' BALLAST - AMBIENT LTG.	LPC-3C1-1
rt6	LV56 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-188	'ff' BALLAST - READING LTG.	LPC-3C1-1
rt7	LV56 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-188	'gg' BALLAST - EXAM LTG.	LPC-3C1-1
rt8	LV56 (2) AND PILLOW SPKR	TOGGLE: ON/OFF	PRE-OP 3B-188	'hh' FIXTURES	LPC-3C1-1

14 MICRO PANEL "LCt"
SCALE: SCHEMATIC

RELAY	CONTROL SWITCH (QTY)	FUNCTION	ROOMS CONTROLLED	LINE 1	CIRCUIT
ru1	LV10 (4)	TOGGLE: ON/OFF	STORAGE 3B-135A, 3B-137A, 3B-139A	ALL NORMAL POWER FIXTURES	LPN-3A-10
ru2	LV10 (4)	TOGGLE: ON/OFF	STORAGE 3B-135A, 3B-137A, 3B-139A	ALL CRITICAL POWER FIXTURES	LPC-3A-1
ru3	LV5 (2)	TOGGLE: ON/OFF	STORAGE 3B-141A	ALL NORMAL POWER FIXTURES	LPN-3A-10
ru4	LV5 (2)	TOGGLE: ON/OFF	STORAGE 3B-141A	ALL CRITICAL POWER FIXTURES	LPC-3A-1
ru5		TOGGLE: ON/OFF			
ru6		TOGGLE: ON/OFF			
ru7		TOGGLE: ON/OFF			
ru8		TOGGLE: ON/OFF			

15 MICRO PANEL "LCu"
SCALE: SCHEMATIC

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

NO. | DESCRIPTION | DATE

CONSULTANTS:

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-5002

PF&A DESIGN
ARCHITECTURE, PLANNING, INTERIORS
World Trade Center
101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: ELECTRICAL LIGHTING DETAILS

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Location: HUNTINGTON, WV

Date: 10.31.2014 | Checked: MC | Drawn: DR

Project Number: 581-13-101

Building Number: 1S

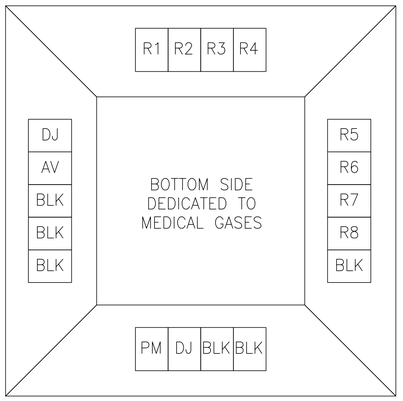
Drawing Number: E5.05

Dwg. 138 of 178

Office of Construction and Facilities Management

Department of Veterans Affairs

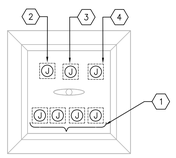
VA FORM 08-6231



BOTTOM VIEW

DEVICE AND ACCESSORY CHART POSITION FOR SKYTRON ANESTHESIA BOOM				
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.
PM	PATIENT MONITOR			PRIOR ANY INSTALLATION, E.C. TO CONFIRM PIN NUMBER FOR THE TYPE / MODEL NUMBER OF THE PATIENT MONITOR.
BLK	BLANK FOR FUTURE USE			E.C. TO PROVIDE 3/4" EMT EMPTY CONDUIT WITH PULL STRING FROM BLANK PLATE TO THE FINISH CEILING OF THE ANT COLUMN

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



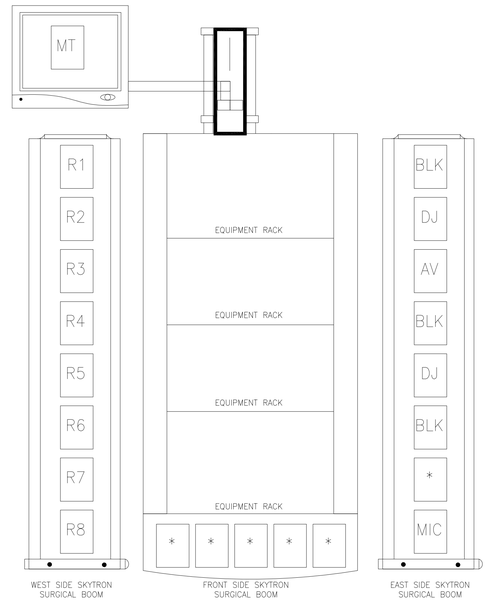
CEILING VIEW

CEILING VIEW NOTES FOR ANESTHESIA FIXED COLUMNS	
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.
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 PATIENT MONITOR WIRING ROUTING.
4	PROVIDE (1) 1–1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE ABOVE BOOM FOR FUTURE WIRING ROUTING.

GENERAL SURGICAL BOOM NOTES:

1. ALL RECEPTACLES IN THE ANESTHESIA FIXED COLUMNS 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.

1 NEW ANESTHESIA FIXED COLUMN DETAIL
SCALE: SCHEMATIC



FRONT VIEW

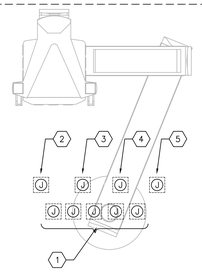
DEVICE AND ACCESSORY CHART POSITION FOR SKYTRON 360 D SURGICAL BOOM WITH VST MONITOR AND 4 ADJUSTABLE EQUIPMENT SHELVES				
BOOM SIDE	DESCRIPTION	CIRCUIT NUMBER	PANEL NAME	REMARKS
R1	DUPLEX RECEPTACLE – RED HOSPITAL GRADE 20 AMP	DEDICATED (1)	IPU–OR#–B	"#" INDICATES OPERATING ROOM NUMBER. (I.E. OR1, 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.
MT	JUNCTION BOX DEDICATED TO 120VAC MONITOR POWER. JUNCTION BOX DEDICATED TO DATA WIRING FOR MONITOR.	DEDICATED (5)	IPU–OR#–B	10x8x4 MIN. NEMA 4 ENCLOSURE REQUIRED FOR ABOVE CEILING MOUNTING. PROVIDE 120VAC, 20 AMP DEDICATED CIRCUIT TO NATIONAL DISPLAY POWER SUPPLY.

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 INSTALLATIONBY CONTRACTOR.
6. ALL INTERNAL WIRING SHALL UTILIZE LOW LEAKAGE XHHW–2, 600V INSULATION.

EXISTING SKYTRON 360 D POSITIONING WITH VST MONITOR AND 4 ADJUSTABLE EQUIPMENT SHELVES DETAIL TO BE RELOCATED TO NEW OR No. 1 3B–135, OR No. 3, 3B–139, NEW OR No.5, 3B–143
2 SCALE: SCHEMATIC



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) 2"C FOR MONITOR TERMINATED IN SURGICAL BOOM WITH INSULATED BUSHING WITHIN 18" OF THE CENTER OF THE CEILING MOUNT. CONDUITS MUST BE ACCESSIBLE FROM CEILING ACCESS PANEL AND TERMINATED IN A HORIZONTAL ORIENTATION.
3	PROVIDE (1) 1–1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE ABOVE BOOM TO TELECOM ROOM IN ORDER TO EXTEND COMMUNICATION CABLE ROUTING.
4	PROVIDE (1) 1–1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE ABOVE BOOM FOR AUDIO/VIDEO WIRING ROUTING.
5	PROVIDE (1) 1" CONDUIT FROM ACCESSIBLE CEILING SPACE ABOVE BOOM FOR MONITOR WIRING ROUTING.

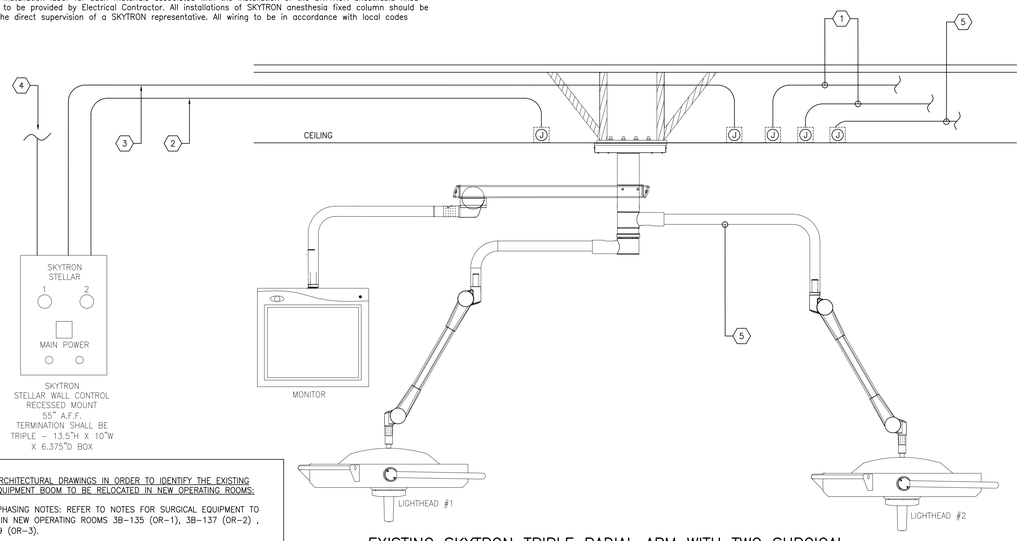
REFER TO ARCHITECTURAL DRAWINGS IN ORDER TO IDENTIFY THE EXISTING SURGICAL EQUIPMENT BOOM TO BE RELOCATED IN NEW OPERATING ROOMS AS FOLLOWS:

* 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).



DEVICE AND ACCESSORY CHART POSITION FOR SKYTRON TRIPLE RADIAL ARM WITH TWO SURGICAL LIGHTHEADS AND ONE FLAT SCREEN MONITOR				
SKYTRON EQUIPMENT	DESCRIPTION	CIRCUIT NUMBER	PANEL NAME	REMARKS
1	PROVIDE ONE JUNCTION BOX TO POWER 120VAC DEDICATED CIRCUIT CONNECTED TO FLAT MONITOR. PROVIDE ONE JUNCTION BOX AND 1"C DEDICATED TO DATA WIRING CONNECTION TO FLAT MONITOR.	DEDICATED (1)	IPU–OR#–B AND DATA CONNECTION TO 19" TELECOM	1" METAL CONDUIT AND COMMUNICATION WIRING TO MONITOR. E.C. TO COORDINATE WITH SKYTRON DATA WIRING REQUIREMENTS FOR MONITOR. UPS CONNECTION
2	3/4" METAL CONDUIT AND WIRING OUT TO LIGHTHEAD #1. 3#12 AWG (W, R &BL) AND 1#12 AWG GRND (GREEN)			*2 DEDICATED CONDUIT RUNS REQUIRED AT WALL CONTROL TO SEPARATE 100–240VAC INPUT LINES FROM DC OUTPUT LINES TO LIGHT FIXTURE TO PREVENT THE MIGRATION OF ELECTRICAL MAGNETIC INTERFERENCE WHICH WILL DISRUPT THE OPERATION OF THE LIGHT. *EACH LIGHTHEAD MUST HAVE SEPARATE INDIVIDUAL GROUND WIRE FROM FIXTURE JUNCTION BOX.
3	3/4" METAL CONDUIT AND WIRING OUT TO LIGHTHEAD #2. 3#12 AWG (W, R &BL) AND 1#12 AWG GRND (GREEN)			
4	3/4" METAL CONDUIT AND WIRING INPUT (120 VAC, 20A)	DEDICATED (2)	IPU–OR#–B	"#" INDICATES OPERATING ROOM NUMBER. (I.E. OR1, OR2, ETC.)
5	2" METAL CONDUIT FROM FUTURE CAMERA TO FUTURE SKYVISION INTEGRATION EQUIPMENT.			PROVIDE CONDUIT AT THE CEILING STRUCTURE OF THE TRIPLE RADIAL ARM EQUIPMENT TO THE INTEGRATION SKYVISION POWER RACK. CONDUIT WILL BE USED IN ORDER TO PLACE A HD VIDEO CAMERA IN ONE OF THE SURGICAL HEADLIGHTS.

SKYTRON to provide a prewired triple radial arm boom with two surgical lightheads and one flat screen monitor. 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.

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

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

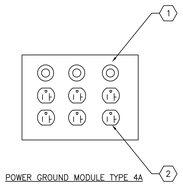
* P2 A1.0 PHASING NOTES: REFER TO NOTES FOR SURGICAL EQUIPMENT TO BE REUSED IN NEW OPERATING ROOMS 3B–135 (OR–1), 3B–137 (OR–2) , AND 3B–139 (OR–3).

* P3 A1.0 PHASING NOTES: REFER TO NOTES FOR SURGICAL EQUIPMENT TO BE REUSED IN NEW OPERATING ROOM 3B–141 (OR–4).

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

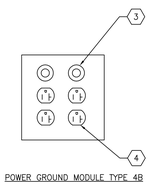
* P4 A1.0 PHASING NOTES: REFER TO NOTES FOR SURGICAL EQUIPMENT TO BE REUSED IN NEW OPERATING ROOM 3B–136 (OR–6).

EXISTING SKYTRON TRIPLE RADIAL ARM WITH TWO SURGICAL LIGHTHEADS AND ONE FLAT SCREEN MONITOR DETAIL TO BE RELOCATED TO NEW OR No. 3, 3B–139, NEW OR No. 5 3B–143, NEW OR No. 6, 3B–136, NEW OR No. 1 3B–135.
3 SCALE: SCHEMATIC



POWER GROUND MODULE TYPE 4A

4A POWER GROUND MODULE
SCALE: SCHEMATIC



POWER GROUND MODULE TYPE 4B

4B POWER GROUND MODULE
SCALE: SCHEMATIC

POWER GROUND MODULES TO BE MOUNTED 42" A.F.F. UNLESS OTHERWISE NOTED

DEVICE AND ACCESSORY CHART POSITION FOR POWER/GROUND MODULES				
BACK BOXES	DESCRIPTION	CIRCUIT NUMBER	PANEL NAME	REMARKS
1	3 –30A TWIST–TO–LOCK GROUND JACK RECEPTACLES			BACK BOX #304 STAINLESS STEEL WITH #4 BRUSHED FINISH AND 14 GAUGE STAINLESS STEEL .
2	3 – 20A RED DUPLEX HOSPITAL GRADE RECEPTACLES	DEDICATED	ISOLATION PANEL	
3	2 –30A TWIST–TO–LOCK GROUND JACK RECEPTACLES			BACK BOX #304 STAINLESS STEEL WITH #4 BRUSHED FINISH AND 14 GAUGE STAINLESS STEEL .
4	2 – 20A RED DUPLEX HOSPITAL GRADE RECEPTACLES	DEDICATED	ISOLATION PANEL	

4 POWER GROUND MODULE
SCALE: SCHEMATIC

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA
REGISTERED PROFESSIONAL ENGINEER
THOMAS L. CHAPMAN
NO. PE044434

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-9202

SDVOSB CVE

PF&A DESIGN
ARCHITECTURE, PLANNING, INTERIORS
World Trade Center
101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: ELECTRICAL O.R. DETAILS

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Project Number: 581-13-101

Building Number: 1S

Location: HUNTINGTON, WV

Date: 10.31.2014 | Checked: MC | Drawn: DR

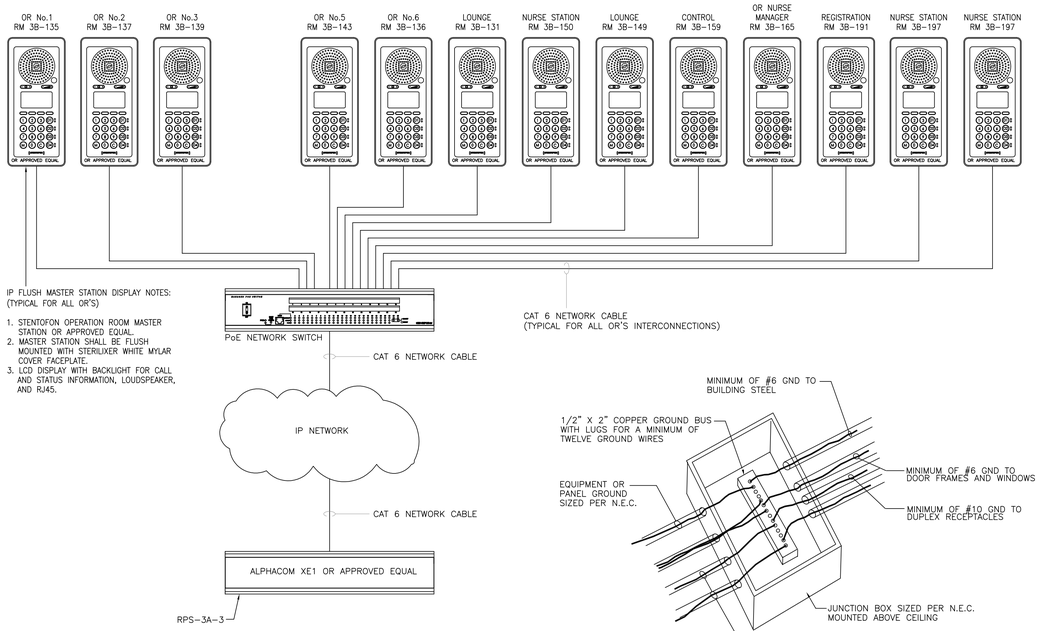
Drawing Number: E5.06

Dwg. 139 of 178

Office of Construction and Facilities Management

Department of Veterans Affairs

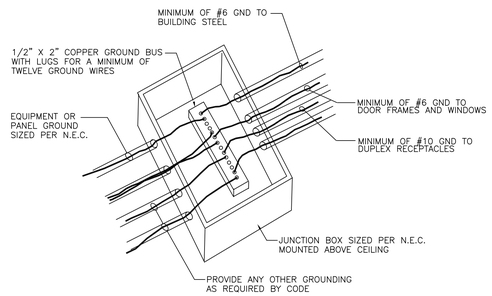
VA FORM 08-6231



1 IP OPERATING ROOM INTERCOM STATION
SCALE: SCHEMATIC

NOTES:

1. HEAD END EQUIPMENT LOCATED IN LOW VOLTAGE CLOSET 3B-132.



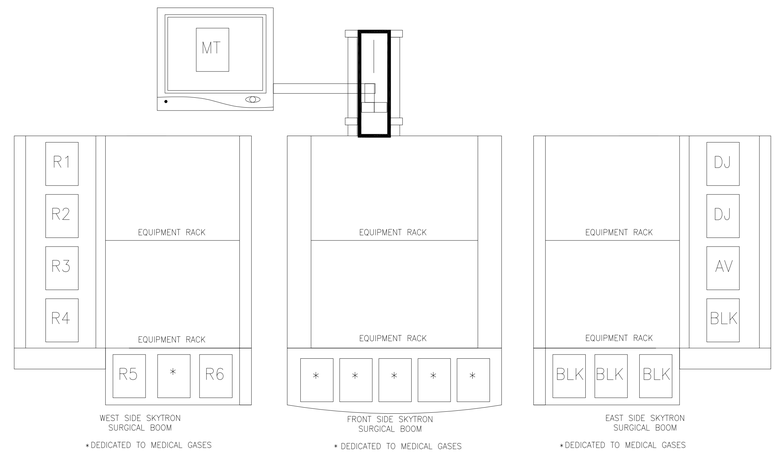
2 REFERENCE GROUNDING POINT DETAIL
SCALE: SCHEMATIC

DEVICE AND ACCESSORY CHART POSITION FOR SKYTRON 360 D SURGICAL BOOM WITH VST MONITOR AND 2 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.)
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.
MT	JUNCTION BOX DEDICATED TO 120VAC MONITOR POWER. JUNCTION BOX DEDICATED TO DATA WIRING FOR MONITOR.	DEDICATED (4)	IPU-OR#-B	10x8x4 MIN. NEMA 4 ENCLOSURE REQUIRED FOR ABOVE CEILING MOUNTING. PROVIDE 120VAC, 20 AMP DEDICATED CIRCUIT TO NATIONAL DISPLAY POWER SUPPLY.

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:

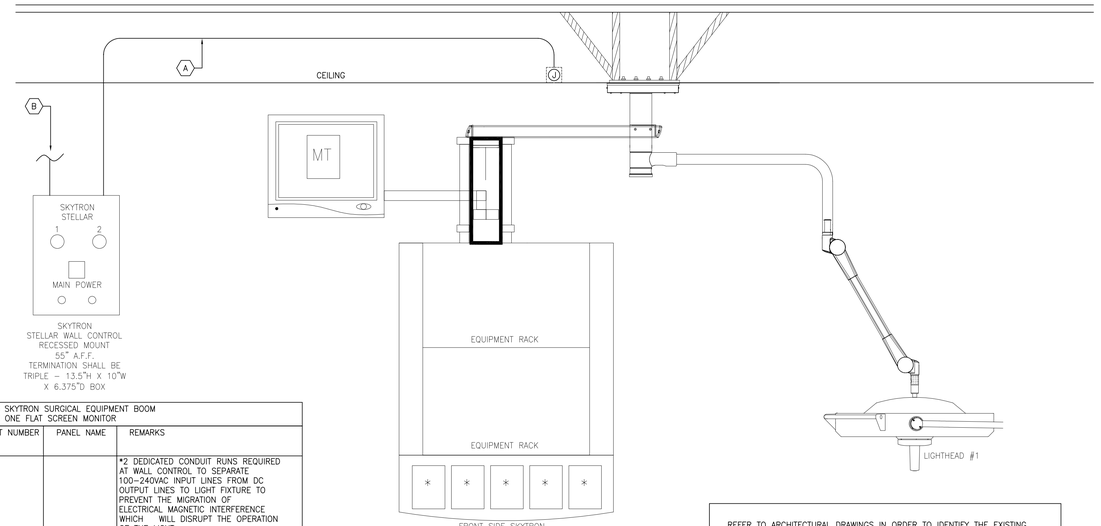
1. ALL RECEPTACLES IN COLUMNS AND BOOMS SHALL BE PREWIRED TO JUNCTION BOXES LOCATED AT TOP OF COLUMN.
2. ALL CIRCUITS SHALL CONTAIN SEPARATE PHASE AND NEUTRAL CONDUCTORS. COMBINING OF THREE CIRCUITS WITH A COMMONNEUTRAL IS NOT PERMITTED.
3. ELECTRICAL CONTRACTOR TO ENGRAVE THE PROPER PANEL AND CIRCUIT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



WEST VIEW

FRONT VIEW

EAST VIEW



FRONT VIEW

DEVICE AND ACCESSORY CHART POSITION FOR SKYTRON SURGICAL EQUIPMENT BOOM WITH ONE SURGICAL LIGHTHEAD AND ONE FLAT SCREEN MONITOR				
SKYTRON EQUIPMENT	DESCRIPTION	CIRCUIT NUMBER	PANEL NAME	REMARKS
A	3/4" METAL CONDUIT AND WIRING OUT TO LIGHTHEAD #1. 3#12 AWG (W, R &BL) AND 1#12 AWG GRND (GREEN)			*2 DEDICATED CONDUIT RUNS REQUIRED AT WALL CONTROL TO SEPARATE 100-240VAC INPUT LINES FROM DC OUTPUT LINES TO LIGHT FIXTURE TO PREVENT THE MIGRATION OF ELECTRICAL MAGNETIC INTERFERENCE WHICH WILL DISRUPT THE OPERATION OF THE LIGHT. *EACH LIGHTHEAD MUST HAVE SEPARATE INDIVIDUAL GROUND WIRE FROM FIXTURE JUNCTION BOX.
B	3/4" METAL CONDUIT AND WIRING INPUT (120 VAC, 20A)	DEDICATED (5)	IPU-OR#-B	"#" INDICATES OPERATING ROOM NUMBER. (I.E. OR1, OR2, ETC.)

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

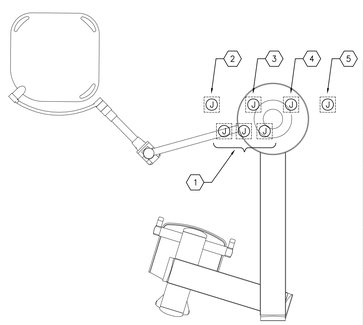
REFER TO ARCHITECTURAL DRAWINGS IN ORDER TO IDENTIFY THE EXISTING SURGICAL EQUIPMENT BOOM TO BE RELOCATED IN NEW OPERATING ROOMS:

* 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-141 (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).



CEILING VIEW

CEILING VIEW NOTES FOR SKYTRON SURGICAL EQUIPMENT BOOM WITH VST MONITOR AND 2 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) 2"C FOR MONITOR TERMINATED IN SURGICAL BOOM WITH INSULATED BUSHING WITHIN 18" OF THE CENTER OF THE CEILING MOUNT. CONDUITS MUST BE ACCESSIBLE FROM CEILING ACCESS PANEL AND TERMINATED IN A HORIZONTAL ORIENTATION.
3	PROVIDE (1) 1-1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE ABOVE BOOM TO TELECOM ROOM IN ORDER TO EXTEND COMMUNICATION CABLE ROUTING.
4	PROVIDE (1) 1-1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE ABOVE BOOM FOR AUDIO/VIDEO WIRING ROUTING.
5	PROVIDE (1) 1" CONDUIT FROM ACCESSIBLE CEILING SPACE ABOVE BOOM FOR MONITOR WIRING ROUTING.

EXISTING SKYTRON SURGICAL EQUIPMENT BOOM WITH VST MONITOR, ONE SURGICAL LIGHTHEAD AND 2 ADJUSTABLE EQUIPMENT SHELVES DETAIL DEDICATED TO NEW CYSTO OR#2 3B-137

3 SCALE: SCHEMATIC

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
THOMAS L. CHAPMAN
NO. PE044404436

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-5002

SDVOSB

PF&A
PF&A DESIGN
ARCHITECTURE, PLANNING, INTERIORS
World Trade Center
101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: ELECTRICAL O.R. DETAILS

Approved: Medical Center Director

Project Title: **RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS**

Location: HUNTINGTON, WV

Date: 10.31.2014 | Checked: MC | Drawn: DR

Project Number: **581-13-101**

Building Number: 1S

Drawing Number: E5.07

Dwg. 140 of 178

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

GENERAL SHEET NOTES:

1. REFER TO DRAWING E0.01 AND E0.02 FOR NOTES, SYMBOLS & ABBREVIATIONS.
2. REFER TO DRAWING E5.09 FOR WIRING DIAGRAM OF ISOLATION PANELS.
3. ISOLATION PANELS TO BE PROVIDED WITH ISOLATION TRANSFORMER RATED AT 220°C INSULATION SYSTEM– 80° C TEMPERATURE RISE, 30 dB SOUND LEVEL, NON–VENTILATED, AND ELECTROSTATIC SHIELD BETWEEN THE PRIMARY AND SECONDARY WINDINGS.
4. ISOLATION PANELS TO BE PROVIDED WITH PRIMARY AND SECONDARY CIRCUIT BREAKER AND 2–POLE SECONDARY CIRCUIT BREAKER. ALL PANELS SHALL BE PROVIDED TO ACCEPT 16 SECONDARY BREAKERS PER UL.
5. ISOLATION PANELS TO BE FLUSH MOUNTING, FRONT TRIM #304 STAINLESS STEEL WITH A BRUSHED FINISH TO ENSURE CORROSION RESISTANCE AND EASE OF CLEANING.
6. ISOLATION PANELS SHALL BE PROVIDED TO THE FIELD COMPLETELY FACTORY WIRED AND TESTED. FIELD WIRING BY THE CONTRACTOR SHOULD INVOLVE JUST THE CONNECTIONS OF THE PRIMARY FEEDERS AND SECONDARY CIRCUITS TO THE TERMINALS.

ISOLATION PANEL IPU–OR1–A FED FROM PANEL LPC–3A CIRCUIT 4
120V, 1ø, 2W, WITH LINE ISOLATION MONITOR.

DESCRIPTION	Bkr	No.	No.	Bkr	DESCRIPTION
WALL GROUND MODULE	20/2	1	2	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	3	4	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	5	6	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	7	8	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	9	10	20/2	ELAPSE TIME CLOCK
LASER EQUIPMENT	20/2	11	12	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	13	14	20/2	WALL MOUNTED TV MONITOR
SPARE	20/2	15	16	20/2	SPARE

XFMR	INPUT	INPUT	INPUT	HERTZ	OUTPUT	OUTPUT	OUTPUT	A.I.C
KVA	VOLTS	AMPS	PHASE		VOLTS	AMPS	PHASE	RATING
7.5	277	27	1	60	120	62.5	1	22,000

1 ISOLATION PANEL IPU–OR1–A – ROOM 3B–135
SCALE: SCHEMATIC

ISOLATION PANEL IPU–OR1–B FED FROM PANEL LPC–3A CIRCUIT 10
120V, 1ø, 2W, WITH LINE ISOLATION MONITOR.

DESCRIPTION	Bkr	No.	No.	Bkr	DESCRIPTION
WALL GROUND MODULE	20/2	1	2	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	3	4	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON SURGICAL BOOM W/SHELVES	20/2	5	6	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON SURGICAL BOOM W/SHELVES	20/2	7	8	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON ANESTHESIA FIXED COLUMN	20/2	9	10	20/2	SKYTRON ANESTHESIA FIXED COLUMN
SKYTRON ANESTHESIA FIXED COLUMN	20/2	11	12	20/2	SKYTRON ANESTHESIA FIXED COLUMN
SKYTRON TRIPLE RADIAL ARM	20/2	13	14	20/2	SKYTRON TRIPLE RADIAL ARM
SPARE	20/2	15	16	20/2	SPARE

XFMR	INPUT	INPUT	INPUT	HERTZ	OUTPUT	OUTPUT	OUTPUT	A.I.C
KVA	VOLTS	AMPS	PHASE		VOLTS	AMPS	PHASE	RATING
7.5	277	27	1	60	120	62.5	1	22,000

2 ISOLATION PANEL IPU–OR1–B – ROOM 3B–135
SCALE: SCHEMATIC

ISOLATION PANEL IPU–OR2–A FED FROM PANEL LPC–3A CIRCUIT 6
120V, 1ø, 2W, WITH LINE ISOLATION MONITOR.

DESCRIPTION	Bkr	No.	No.	Bkr	DESCRIPTION
WALL GROUND MODULE	20/2	1	2	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	3	4	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	5	6	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	7	8	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	9	10	20/2	ELAPSE TIME CLOCK
LASER EQUIPMENT	20/2	11	12	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	13	14	20/2	SPARE
SPARE	20/2	15	16	20/2	SPARE

XFMR	INPUT	INPUT	INPUT	HERTZ	OUTPUT	OUTPUT	OUTPUT	A.I.C
KVA	VOLTS	AMPS	PHASE		VOLTS	AMPS	PHASE	RATING
7.5	277	27	1	60	120	62.5	1	22,000

3 ISOLATION PANEL IPU–OR2–A – ROOM 3B–137 (CYSTO OR)
SCALE: SCHEMATIC

ISOLATION PANEL IPU–OR2–B FED FROM PANEL LPC–3A CIRCUIT 12
120V, 1ø, 2W, WITH LINE ISOLATION MONITOR.

DESCRIPTION	Bkr	No.	No.	Bkr	DESCRIPTION
WALL GROUND MODULE	20/2	1	2	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	3	4	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON SURGICAL BOOM W/SHELVES	20/2	5	6	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON SURGICAL BOOM W/SHELVES	20/2	7	8	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON ANESTHESIA FIXED COLUMN	20/2	9	10	20/2	SKYTRON ANESTHESIA FIXED COLUMN
SKYTRON ANESTHESIA FIXED COLUMN	20/2	11	12	20/2	SKYTRON ANESTHESIA FIXED COLUMN
SPARE	20/2	13	14	20/2	SPARE
SPARE	20/2	15	16	20/2	SPARE

XFMR	INPUT	INPUT	INPUT	HERTZ	OUTPUT	OUTPUT	OUTPUT	A.I.C
KVA	VOLTS	AMPS	PHASE		VOLTS	AMPS	PHASE	RATING
7.5	277	27	1	60	120	62.5	1	22,000

4 ISOLATION PANEL IPU–OR2–B – ROOM 3B–137 (CYSTO OR)
SCALE: SCHEMATIC

ISOLATION PANEL IPU–OR3–A FED FROM PANEL LPC–3A CIRCUIT 8
120V, 1ø, 2W, WITH LINE ISOLATION MONITOR.

DESCRIPTION	Bkr	No.	No.	Bkr	DESCRIPTION
WALL GROUND MODULE	20/2	1	2	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	3	4	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	5	6	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	7	8	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	9	10	20/2	ELAPSE TIME CLOCK
LASER EQUIPMENT	20/2	11	12	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	13	14	20/2	WALL MOUNTED TV MONITOR
SPARE	20/2	15	16	20/2	SPARE

XFMR	INPUT	INPUT	INPUT	HERTZ	OUTPUT	OUTPUT	OUTPUT	A.I.C
KVA	VOLTS	AMPS	PHASE		VOLTS	AMPS	PHASE	RATING
7.5	277	27	1	60	120	62.5	1	22,000

5 ISOLATION PANEL IPU–OR3–A – ROOM 3B–139
SCALE: SCHEMATIC

ISOLATION PANEL IPU–OR3–B FED FROM PANEL LPC–3A CIRCUIT 14
120V, 1ø, 2W, WITH LINE ISOLATION MONITOR.

DESCRIPTION	Bkr	No.	No.	Bkr	DESCRIPTION
WALL GROUND MODULE	20/2	1	2	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	3	4	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON SURGICAL BOOM W/SHELVES	20/2	5	6	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON SURGICAL BOOM W/SHELVES	20/2	7	8	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON ANESTHESIA FIXED COLUMN	20/2	9	10	20/2	SKYTRON ANESTHESIA FIXED COLUMN
SKYTRON ANESTHESIA FIXED COLUMN	20/2	11	12	20/2	SKYTRON ANESTHESIA FIXED COLUMN
SKYTRON TRIPLE RADIAL ARM	20/2	13	14	20/2	SKYTRON TRIPLE RADIAL ARM
SPARE	20/2	15	16	20/2	SPARE

XFMR	INPUT	INPUT	INPUT	HERTZ	OUTPUT	OUTPUT	OUTPUT	A.I.C
KVA	VOLTS	AMPS	PHASE		VOLTS	AMPS	PHASE	RATING
7.5	277	27	1	60	120	62.5	1	22,000

6 ISOLATION PANEL IPU–OR3–B – ROOM 3B–139
SCALE: SCHEMATIC

ISOLATION PANEL IPU–OR5–A FED FROM PANEL LPC–3B CIRCUIT 15
120V, 1ø, 2W, WITH LINE ISOLATION MONITOR.

DESCRIPTION	Bkr	No.	No.	Bkr	DESCRIPTION
WALL GROUND MODULE	20/2	1	2	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	3	4	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	5	6	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	7	8	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	9	10	20/2	ELAPSE TIME CLOCK
LASER EQUIPMENT	20/2	11	12	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	13	14	20/2	WALL MOUNTED TV MONITOR
SPARE	20/2	15	16	20/2	SPARE

XFMR	INPUT	INPUT	INPUT	HERTZ	OUTPUT	OUTPUT	OUTPUT	A.I.C
KVA	VOLTS	AMPS	PHASE		VOLTS	AMPS	PHASE	RATING
7.5	277	27	1	60	120	62.5	1	22,000

9 ISOLATION PANEL IPU–OR5–A – ROOM 3B–143
SCALE: SCHEMATIC

ISOLATION PANEL IPU–OR5–B FED FROM PANEL LPC–3A CIRCUIT 18
120V, 1ø, 2W, WITH LINE ISOLATION MONITOR.

DESCRIPTION	Bkr	No.	No.	Bkr	DESCRIPTION
WALL GROUND MODULE	20/2	1	2	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	3	4	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON SURGICAL BOOM W/SHELVES	20/2	5	6	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON SURGICAL BOOM W/SHELVES	20/2	7	8	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON ANESTHESIA FIXED COLUMN	20/2	9	10	20/2	SKYTRON ANESTHESIA FIXED COLUMN
SKYTRON ANESTHESIA FIXED COLUMN	20/2	11	12	20/2	SKYTRON ANESTHESIA FIXED COLUMN
SKYTRON TRIPLE RADIAL ARM	20/2	13	14	20/2	SKYTRON TRIPLE RADIAL ARM
SPARE	20/2	15	16	20/2	SPARE

XFMR	INPUT	INPUT	INPUT	HERTZ	OUTPUT	OUTPUT	OUTPUT	A.I.C
KVA	VOLTS	AMPS	PHASE		VOLTS	AMPS	PHASE	RATING
7.5	277	27	1	60	120	62.5	1	22,000

10 ISOLATION PANEL IPU–OR5–B – ROOM 3B–143
SCALE: SCHEMATIC

ISOLATION PANEL IPU–OR6–A FED FROM PANEL LPC–3B CIRCUIT 17
120V, 1ø, 2W, WITH LINE ISOLATION MONITOR.

DESCRIPTION	Bkr	No.	No.	Bkr	DESCRIPTION
WALL GROUND MODULE	20/2	1	2	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	3	4	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	5	6	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	7	8	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	9	10	20/2	ELAPSE TIME CLOCK
LASER EQUIPMENT	20/2	11	12	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	13	14	20/2	WALL MOUNTED TV MONITOR
SPARE	20/2	15	16	20/2	SPARE

XFMR	INPUT	INPUT	INPUT	HERTZ	OUTPUT	OUTPUT	OUTPUT	A.I.C
KVA	VOLTS	AMPS	PHASE		VOLTS	AMPS	PHASE	RATING
7.5	277	27	1	60	120	62.5	1	22,000

11 ISOLATION PANEL IPU–OR6–A – ROOM 3B–136
SCALE: SCHEMATIC

ISOLATION PANEL IPU–OR6–B FED FROM PANEL LPC–3A CIRCUIT 20
120V, 1ø, 2W, WITH LINE ISOLATION MONITOR.

DESCRIPTION	Bkr	No.	No.	Bkr	DESCRIPTION
WALL GROUND MODULE	20/2	1	2	20/2	WALL GROUND MODULE
WALL GROUND MODULE	20/2	3	4	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON SURGICAL BOOM W/SHELVES	20/2	5	6	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON SURGICAL BOOM W/SHELVES	20/2	7	8	20/2	SKYTRON SURGICAL BOOM W/SHELVES
SKYTRON ANESTHESIA FIXED COLUMN	20/2	9	10	20/2	SKYTRON ANESTHESIA FIXED COLUMN
SKYTRON ANESTHESIA FIXED COLUMN	20/2	11	12	20/2	SKYTRON ANESTHESIA FIXED COLUMN
SKYTRON TRIPLE RADIAL ARM	20/2	13	14	20/2	SKYTRON TRIPLE RADIAL ARM
SPARE	20/2	15	16	20/2	SPARE

XFMR	INPUT	INPUT	INPUT	HERTZ	OUTPUT	OUTPUT	OUTPUT	A.I.C
KVA	VOLTS	AMPS	PHASE		VOLTS	AMPS	PHASE	RATING
7.5	277	27	1	60	120	62.5	1	22,000

12 ISOLATION PANEL IPU–OR6–B – ROOM 3B–136
SCALE: SCHEMATIC

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

MILLER-REMICK LLC
PROFESSIONAL ENGINEER
COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER THOMAS L. CHAPMAN NO. PE044043R

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-5002
SDVOSB

PF&A DESIGN
ARCHITECTURE, PLANNING, INTERIORS
World Trade Center
101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: ELECTRICAL O.R. DETAILS ISOLATION PANELS SCHEDULES
Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS
Location: HUNTINGTON, WV
Date: 10.31.2014 | Checked: MC | Drawn: DR

Project Number: 581-13-101
Building Number: 1S
Drawing Number: E5.08
Dwg. 141 of 178

Office of Construction and Facilities Management
Department of Veterans Affairs

GENERAL SHEET NOTES:

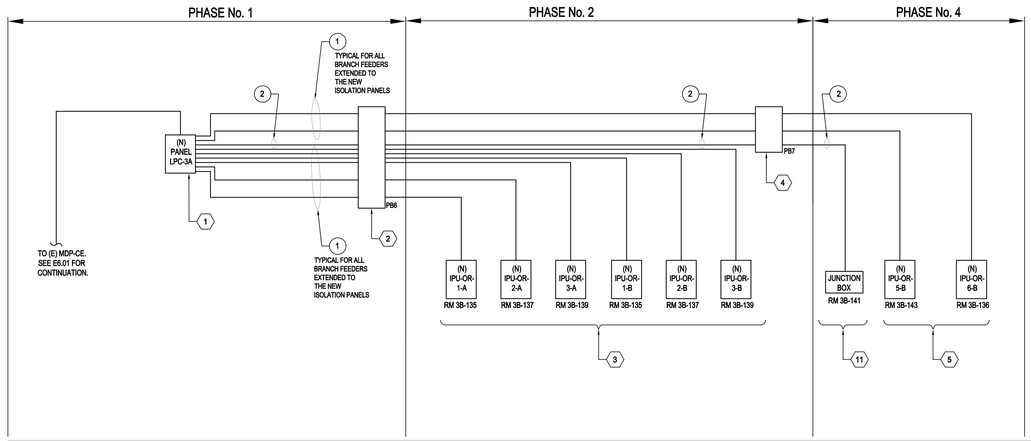
1. REFER TO DRAWING E0.01 AND E0.02 FOR NOTES, SYMBOLS & ABBREVIATIONS.

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

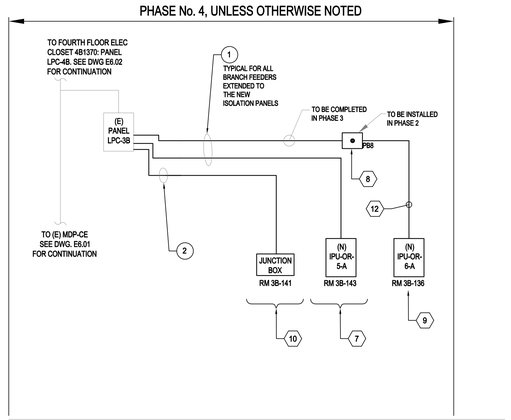
NOTES: ALL CALCULATIONS ARE BASED ON COPPER CONDUCTORS.

SHEET KEYNOTES:

1. REFER TO DWG. E6.02 FOR INFORMATION ON PANEL LPC-3A INSTALLATION.
2. EXTEND BRANCH FEEDERS FROM NEW PANEL LPC-3A TO NEW PULL BOX PB6 LOCATED AT CONVENIENT POINT NEAR THE BORDER BETWEEN PHASE 1 AND 2.
3. EXTEND BRANCH FEEDERS FROM PULL BOX PB6 TO ISOLATION PANELS .
4. EXTEND BRANCH FEEDERS FROM PULL BOX PB1 TO NEW PULL BOX PB7 LOCATED AT CONVENIENT POINT NEAR THE BORDER BETWEEN PHASE 2 AND 3.
5. EXTEND BRANCH FEEDERS FROM PULL BOX PB7 TO ISOLATION PANELS.
6. NOT USED.
7. EXTEND BRANCH FEEDERS FROM EXISTING PANEL LPC-3B TO ISOLATION PANELS.
8. EXTEND BRANCH FEEDER FROM EXISTING PANEL LPC-3B TO NEW PULL BOX PB8 LOCATED AT CONVENIENT POINT NEAR THE BORDER BETWEEN PHASE 2 AND 3.
9. EXTEND BRANCH FEEDER FROM PULL BOX PB8 TO ISOLATION PANEL IN PHASE 4.
10. EXTEND CONDUIT PATHWAY FROM PULL BOX PB8 TO JUNCTION BOX IN OR4. PATHWAY TO BE USED FOR FUTURE ISOLATION PANEL IPU-OR4-A.
11. EXTEND CONDUIT PATHWAY FROM PULL BOX PB7 TO JUNCTION BOX IN OR4. PATHWAY TO BE USED FOR FUTURE ISOLATION PANEL IPU-OR4-B.
12. INSTALL CONDUIT FROM PULLBOX PB8 TO LOCATION OF FUTURE O.R. 6 IN PHASE 2. STUB CONDUIT INTO FUTURE O.R. 6 CEILING SPACE FOR EXTENSION IN PHASE 4.



1 O.R. ISOLATION PANEL CONNECTION TO LPC-3A SINGLE LINE DIAGRAM
SCALE: SCHEMATIC



2 O.R. ISOLATION PANEL CONNECTION TO LPC-3B SINGLE LINE DIAGRAM
SCALE: SCHEMATIC

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

MILLER-REMICK LLC PROFESSIONAL ENGINEER
COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER THOMAS L. CHAPMAN ENGINEER NO. PE-036404-E

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
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101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: **ELECTRICAL WIRING DIAGRAM DETAILS FOR O.R. ISOLATION PANELS**

Approved: Medical Center Director

Project Title: **RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS**

Location: HUNTINGTON, WV

Date: 10.31.2014 | Checked: MC | Drawn: MB

Project Number: **581-13-101**

Building Number: 1S

Drawing Number: **E5.09**

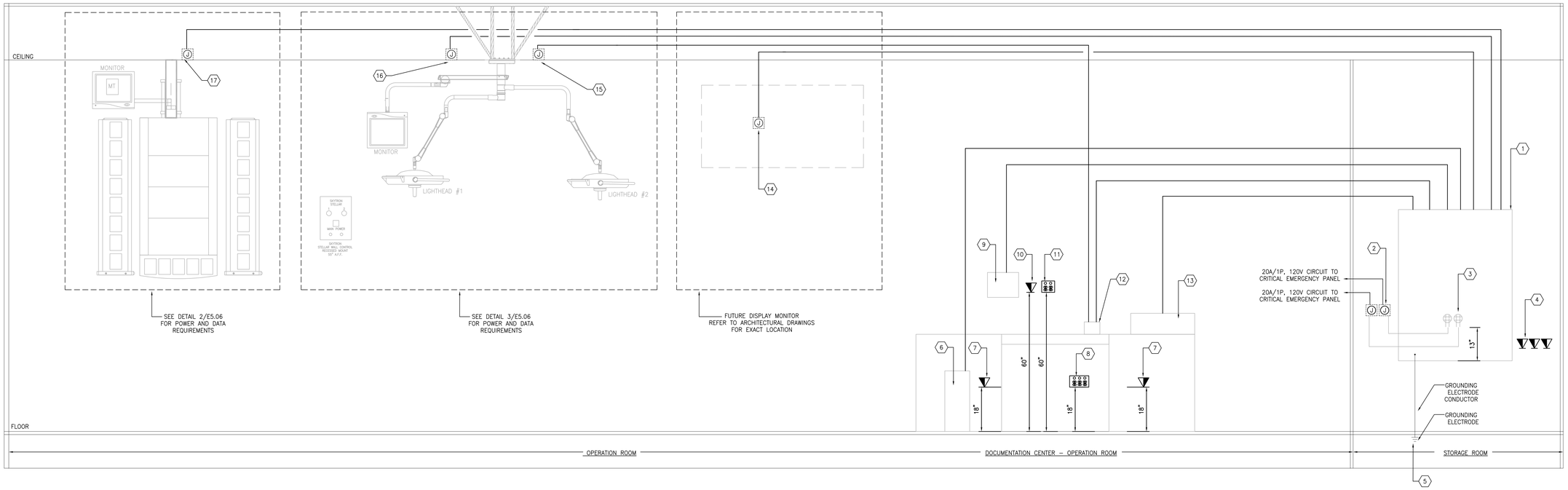
Dwg. 142 of 178

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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
\\VA94_VHA1-DFS9-SVC3\Huntington_WV\Renovate Surgical Service and Operating Rooms\Z_Drawings\1_Cad\1_Current Submittal Phase\Z_E5.09-ORs_DETAILS - Revision Phase Connections.dwg 10-31-14 03:34:08 PM mfranco



SKYTRON INTEGRATION WIRING DIAGRAM TYPICAL FOR OPERATING ROOMS 3, 5 AND 6

1 SCALE: NONE

DEVICE. ACCESSORY CHART, AND INSTALLATION RESPONSIBILITIES FOR COMPLETE OPERATION OF THE SKYVISION LINX 300 INTEGRATION CONTROL SYSTEM. REFER TO EP SERIES POWER DRAWINGS AND EY SERIES AUXILIARY SYSTEMS NETWORK DRAWINGS FOR ADDITIONAL INFORMATION.

ITEM NUMBER	DESCRIPTION	CONDUIT SIZE	DESCRIPTION	TERMINATION	LOCATION OF JUNCTION BOX	TO	INSTALLATION RESPONSABILITIES	REMARKS
1	SKYVISION POWER RACK (LINX 300 INTEGRATION CONTROL SYSTEM)						C D E	SINGLE 18U WALL MOUNTED RACK.
2	TWO (2) 120 VAC/20A DEDICATED CIRCUITS	TWO (2) 1"		AS REQUIRED	18" ABOVE FINISH FLOOR.	RECEPTACLE PANEL AS INDICATED IN EP DRAWINGS	A B	ONE CIRCUIT IS DEDICATED TO THE COMPONENT RACK AND THE SECOND CIRCUIT IS DEDICATED TO THE MONITOR SUPPLIES. REFER TO EP SERIES DRAWINGS FOR EXACT CIRCUIT NUMBER AND PANEL SOURCE.
3	TWO (2) DEDICATED QUADUPLEX RECEPTACLES	TWO (2) 1"		TWO (2) 12"X12"X4" JUNCTION BOXES.	TWO (2) 12" SQ. X 4" DEEP JUNCTION BOXES.	SKYVISION POWER RACK	C E	JUNCTION BOXES TO BE ROUGHED IN LEFT–HAND SWING SKYVISION ENCLOSURE.
4	THREE (3) DATA OUTLETS.	THREE (2) 1"		AS REQUIRED	18" ABOVE FINISH FLOOR.	HOSPITAL TELECOM NETWORK	A B	DATA OUTLETS DEDICATED TO SKYVISION POWER INTEGRATION SYSTEM. REFER TO DETAIL 8/E5.01 FOR DATA OUTLET CONFIGURATION.
5	GROUND LEAD	1"	MINIMUM 8 AWG COOPER GROUND WIRE	AS REQUIRED PER NEC 647.6(B)	HOSPITAL GROUND	SKYVISION POWER RACK	A C E	REFER TO ARTICLE NEC 647.6(B). EQUIPMENT SHALL BE GROUNDED BY MEANS OF AN EQUIPMENT GROUNDING CONDUCTOR TO AN EQUIPMENT GROUNDING BUS PROMINENTLY MARKED " TECHNICAL EQUIPMENT GROUND" IN THE ORIGINALLY BRANCH CIRCUIT PANEL BOARD.
6	EXTERNAL COMPUTER	1"	PC VIDEO	4" SQ. X 3.5" DEEP BOX W/1 GANG P–RING	18" ABOVE FINISH FLOOR.	SKYVISION POWER RACK	A C D E	CONTRACTOR AND SKYTRON TO COORDINATE WITH ARCHITECT THE EXACT LOCATION OF THE EXTERNAL COMPUTER IN THE DOCUMENTATION DESK.
7	DATA OUTLETS.	1" PER EACH DATA OUTLET		AS REQUIRED	18" ABOVE FINISH FLOOR.	HOSPITAL TELECOM NETWORK	A B	DATA OUTLETS DEDICATED TO SKYVISION POWER INTEGRATION SYSTEM AND DOCUMENTATION STATION COMPUTERS . REFER TO DETAIL 8/E5.01 FOR DATA OUTLET CONFIGURATION AND EY SERIES DRAWINGS FOR EXACT LOCATION.
8	POWER GROUND MODULE				18" ABOVE FINISH FLOOR.	RECEPTACLE PANEL AS INDICATED IN EP DRAWINGS	A B	POWER GROUND MODULE DEDICATED TO SKYVISION POWER INTEGRATION SYSTEM AND DOCUMENTATION STATION COMPUTERS . REFER TO DETAIL 4A/E5.06 FOR CONFIGURATION AND EP SERIES DRAWINGS FOR EXACT LOCATION.
9	TOUCH PANEL	1"	TOUCH PANEL, KEYBOARD, MOUSE	4" SQ. X 3.5" DEEP BOX W/1 GANG P–RING	60" ABOVE FINISH FLOOR.	SKYVISION POWER RACK	A C D E	
10	DATA OUTLET.	1"		AS REQUIRED	60" ABOVE FINISH FLOOR.	HOSPITAL TELECOM NETWORK	A B	DATA OUTLET DEDICATED TO SKYVISION POWER INTEGRATION SYSTEM . REFER TO DETAIL 8/E5.01 FOR DATA OUTLET CONFIGURATION AND EY SERIES DRAWINGS FOR EXACT LOCATION.
11	POWER GROUND MODULE				60" ABOVE FINISH FLOOR.	RECEPTACLE PANEL AS INDICATED IN EP DRAWINGS	A B	POWER GROUND MODULE DEDICATED TO SKYVISION POWER INTEGRATION SYSTEM. REFER TO DETAIL 4B/E5.06 FOR CONFIGURATION AND EP SERIES DRAWINGS FOR EXACT LOCATION.
12	SKYTRON LIGHT CAMERA CONTROL	1"	LIGHT CAM VIDEO TO RACK	4" SQ. X 3.5" DEEP BOX W/1 GANG P–RING	DOCUMENTATION STATION DESK.	SKYVISION POWER RACK	A C D E	
13	HP NETWORK PRINTER	1"	HP NETWORK PRINTER	4" SQ. X 2" DEEP BOX W/1 GANG P–RING	DOCUMENTATION STATION DESK.	SKYVISION POWER RACK	A C D E	
14	WALL MONITOR DISPLAY	1"	WALL MONITOR DISPLAY	4" SQ. X 3.5" DEEP BOX W/1 GANG P–RING	60" ABOVE FINISH FLOOR.	SKYVISION POWER RACK	A C D E	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF "FUTURE" WALL DISPLAY MONITORS IN OPERATING ROOMS 3, 4, 5, AND 6.
15	CAMERA MOUNTED IN TRIPLE RADIAL ARM.	2"	CAMERA	4" SQ. X 3.5" DEEP BOX W/1 GANG P–RING	ABOVE CEILING.	SKYVISION POWER RACK	A C D E	REFER TO DETAIL 3/E5.06 FOR POWER AND DATA CONFIGURATION OF TRIPLE RADIAL ARM WITH TWO SURGICAL LIGHTHEADS AND ONE FLAT SCREEN MONITOR. FUTURE CONNECTION WILL BE USED IN ORDER TO PLACE A HD VIDEO CAMERA INTEGRATED WITH THE EXISTING DISPLAY SURGICAL HEADLIGHTS ARM. SKYTRON TO COIL SIGNAL AND WIRING CABLES AS REQUIRED.
16	MONITOR DISPLAY MOUNTED IN TRIPLE RADIAL ARM.	1"	TRIPLE RADIAL MONITOR DISPLAY	4" SQ. X 3.5" DEEP BOX W/1 GANG P–RING	ABOVE CEILING.	SKYVISION POWER RACK	A C D E	REFER TO DETAIL 3/E5.06 FOR POWER AND DATA CONFIGURATION OF TRIPLE RADIAL ARM WITH TWO SURGICAL LIGHTHEADS AND ONE FLAT SCREEN MONITOR. SKYTRON TO PROVIDE WIRING AND SIGNAL CABLES IN ORDER TO INTEGRATE THE MONITOR MOUNTED IN THE TRIPLE RADIAL ARM TO THE SKYVISION POWER RACK.
17	MONITOR DISPLAY MOUNTED IN 360 D POSITIONING WITH VST MONITOR AND 4 ADJUSTABLE SHELVES	1"	SURGICAL BOOM MONITOR DISPLAY	4" SQ. X 3.5" DEEP BOX W/1 GANG P–RING	ABOVE CEILING.	SKYVISION POWER RACK	A C D E	REFER TO DETAIL 2/E5.06 FOR POWER AND DATA CONFIGURATION OF 360 D POSITIONING WITH VST MONITOR AND 4 ADJUSTABLE SHELVES. SKYTRON TO PROVIDE WIRING AND SIGNAL CABLES IN ORDER TO INTEGRATE THE MONITOR MOUNTED IN THE SURGICAL BOOM TO THE SKYVISION POWER RACK.

A	EMPTY CONDUITS, TERMINATION AND JUNCTION BOXES MUST BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
B	WIRING MUST BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACT.
C	WIRING MUST BE SUPPLIED AND INSTALLED UNDER SEPARATE CONTRACT.
D	SIGNAL CABLE AND WIRING MUST BE SUPPLIED AND INSTALLED UNDER SEPARATE CONTRACT.
E	EQUIPMENT MUST BE SUPPLIED AND INSTALLED UNDER SEPARATE CONTRACT.

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

VA FORM 08-6231

CONSULTANTS:

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA
REGISTERED PROFESSIONAL ENGINEER
THOMAS L. CHAPMAN
No. PE044404.SR

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
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PHONE: (856)429-4000
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101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: ELECTRICAL O.R. INTEGRATION SYSTEM DETAIL	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: 10.31.2014 / Checked: MC / Drawn: DR	Drawing Number: E5.10	Department of Veterans Affairs
		Dwg. 143 of 178	

three inches = one foot
one and one half inches = one foot
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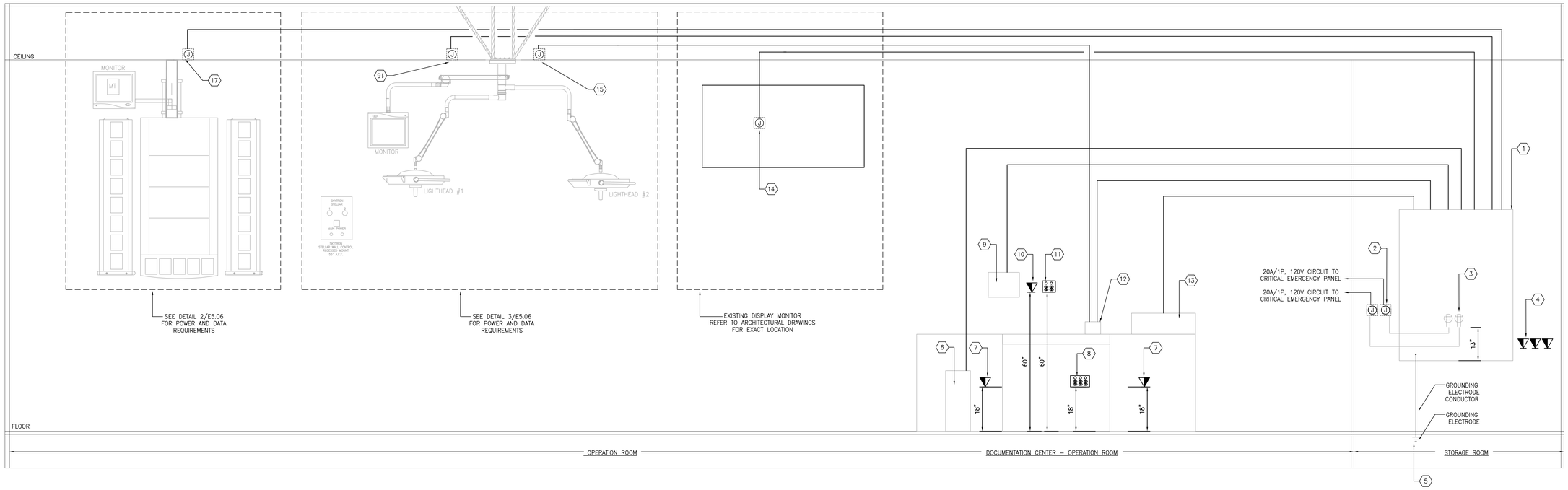
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
P:\581-13-101 - 1S Huntington WV Renovate Surgical Service and Operating Rooms\2_Drawings\1_Cad\1_Current_Submittal Phase\7_E\E5.10-OR-3,4,5,& 6 DETAILS - Skytron Integration.dwg 10-31-14 03:38:50 PM mrocco



SKYTRON INTEGRATION WIRING DIAGRAM TYPICAL FOR OPERATING ROOM 1

1 SCALE: NONE

DEVICE. ACCESSORY CHART, AND INSTALLATION RESPONSIBILITIES FOR COMPLETE OPERATION OF THE SKYVISION LINX 300 INTEGRATION CONTROL SYSTEM. REFER TO EP SERIES POWER DRAWINGS AND EY SERIES AUXILIARY SYSTEMS NETWORK DRAWINGS FOR ADDITIONAL INFORMATION.

ITEM NUMBER	DESCRIPTION	CONDUIT SIZE	DESCRIPTION	TERMINATION	LOCATION OF JUNCTION BOX	TO	INSTALLATION RESPONSABILITIES	REMARKS
1	SKYVISION POWER RACK (LINX 300 INTEGRATION CONTROL SYSTEM)						C D E	SINGLE 18U WALL MOUNTED RACK.
2	TWO (2) 120 VAC/20A DEDICATED CIRCUITS	TWO (2) 1"		AS REQUIRED	18" ABOVE FINISH FLOOR.	RECEPTACLE PANEL AS INDICATED IN EP DRAWINGS	A B	ONE CIRCUIT IS DEDICATED TO THE COMPONENT RACK AND THE SECOND CIRCUIT IS DEDICATED TO THE MONITOR SUPPLIES. REFER TO EP SERIES DRAWINGS FOR EXACT CIRCUIT NUMBER AND PANEL SOURCE.
3	TWO (2) DEDICATED QUADUPLEX RECEPTACLES	TWO (2) 1"		TWO (2) 12"x12"x4" JUNCTION BOXES.	TWO (2) 12" SQ. X 4" DEEP JUNCTION BOXES.	SKYVISION POWER RACK	C E	JUNCTION BOXES TO BE ROUGHED IN LEFT-HAND SWING SKYVISION ENCLOSURE.
4	THREE (3) DATA OUTLETS.	THREE (2) 1"		AS REQUIRED	18" ABOVE FINISH FLOOR.	HOSPITAL TELECOM NETWORK	A B	DATA OUTLETS DEDICATED TO SKYVISION POWER INTEGRATION SYSTEM. REFER TO DETAIL 8/E5.01 FOR DATA OUTLET CONFIGURATION.
5	GROUND LEAD	1"	MINIMUM 8 AWG COOPER GROUND WIRE	AS REQUIRED PER NEC 647.6(B)	HOSPITAL GROUND	SKYVISION POWER RACK	A C E	REFER TO ARTICLE NEC 647.6(B). EQUIPMENT SHALL BE GROUNDED BY MEANS OF AN EQUIPMENT GROUNDING CONDUCTOR TO AN EQUIPMENT GROUNDING BUS PROMINENTLY MARKED " TECHNICAL EQUIPMENT GROUND" IN THE ORIGINALLY BRANCH CIRCUIT PANEL BOARD.
6	EXTERNAL COMPUTER	1"	PC VIDEO	4" SQ. X 3.5" DEEP BOX W/1 GANG P-RING	18" ABOVE FINISH FLOOR.	SKYVISION POWER RACK	A C D E	CONTRACTOR AND SKYTRON TO COORDINATE WITH ARCHITECT THE EXACT LOCATION OF THE EXTERNAL COMPUTER IN THE DOCUMENTATION DESK.
7	DATA OUTLETS.	1" PER EACH DATA OUTLET		AS REQUIRED	18" ABOVE FINISH FLOOR.	HOSPITAL TELECOM NETWORK	A B	DATA OUTLETS DEDICATED TO SKYVISION POWER INTEGRATION SYSTEM AND DOCUMENTATION STATION COMPUTERS . REFER TO DETAIL 8/E5.01 FOR DATA OUTLET CONFIGURATION AND EY SERIES DRAWINGS FOR EXACT LOCATION.
8	POWER GROUND MODULE				18" ABOVE FINISH FLOOR.	RECEPTACLE PANEL AS INDICATED IN EP DRAWINGS	A B	POWER GROUND MODULE DEDICATED TO SKYVISION POWER INTEGRATION SYSTEM AND DOCUMENTATION STATION COMPUTERS . REFER TO DETAIL 4A/E5.06 FOR CONFIGURATION AND EP SERIES DRAWINGS FOR EXACT LOCATION.
9	TOUCH PANEL	1"	TOUCH PANEL, KEYBOARD, MOUSE	4" SQ. X 3.5" DEEP BOX W/1 GANG P-RING	60" ABOVE FINISH FLOOR.	SKYVISION POWER RACK	A C D E	
10	DATA OUTLET.	1"		AS REQUIRED	60" ABOVE FINISH FLOOR.	HOSPITAL TELECOM NETWORK	A B	DATA OUTLET DEDICATED TO SKYVISION POWER INTEGRATION SYSTEM . REFER TO DETAIL 8/E5.01 FOR DATA OUTLET CONFIGURATION AND EY SERIES DRAWINGS FOR EXACT LOCATION.
11	POWER GROUND MODULE				60" ABOVE FINISH FLOOR.	RECEPTACLE PANEL AS INDICATED IN EP DRAWINGS	A B	POWER GROUND MODULE DEDICATED TO SKYVISION POWER INTEGRATION SYSTEM. REFER TO DETAIL 4B/E5.06 FOR CONFIGURATION AND EP SERIES DRAWINGS FOR EXACT LOCATION.
12	SKYTRON LIGHT CAMERA CONTROL	1"	LIGHT CAM VIDEO TO RACK	4" SQ. X 3.5" DEEP BOX W/1 GANG P-RING	DOCUMENTATION STATION DESK.	SKYVISION POWER RACK	A C D E	
13	HP NETWORK PRINTER	1"	HP NETWORK PRINTER	4" SQ. X 2" DEEP BOX W/1 GANG P-RING	DOCUMENTATION STATION DESK.	SKYVISION POWER RACK	A C D E	
14	WALL MONITOR DISPLAY	1"	WALL MONITOR DISPLAY	4" SQ. X 3.5" DEEP BOX W/1 GANG P-RING	60" ABOVE FINISH FLOOR.	SKYVISION POWER RACK	A C D E	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF "EXISTING" WALL DISPLAY MONITOR IN OPERATING ROOM 1. EXISTING MONITOR TO BE RE-USE IN NEW OR No. 1.
15	CAMERA MOUNTED IN TRIPLE RADIAL ARM.	2"	CAMERA	4" SQ. X 3.5" DEEP BOX W/1 GANG P-RING	ABOVE CEILING.	SKYVISION POWER RACK	A C D E	REFER TO DETAIL 3/E5.06 FOR POWER AND DATA CONFIGURATION OF TRIPLE RADIAL ARM WITH TWO SURGICAL LIGHTHEADS AND ONE FLAT SCREEN MONITOR. FUTURE CONNECTION WILL BE USED IN ORDER TO PLACE A HD VIDEO CAMERA INTEGRATED WITH THE EXISTING DISPLAY SURGICAL HEADLIGHTS ARM. SKYTRON TO COIL SIGNAL AND WIRING CABLES AS REQUIRED.
16	MONITOR DISPLAY MOUNTED IN TRIPLE RADIAL ARM.	1"	TRIPLE RADIAL MONITOR DISPLAY	4" SQ. X 3.5" DEEP BOX W/1 GANG P-RING	ABOVE CEILING.	SKYVISION POWER RACK	A C D E	REFER TO DETAIL 3/E5.06 FOR POWER AND DATA CONFIGURATION OF TRIPLE RADIAL ARM WITH TWO SURGICAL LIGHTHEADS AND ONE FLAT SCREEN MONITOR. SKYTRON TO PROVIDE WIRING AND SIGNAL CABLES IN ORDER TO INTEGRATE THE MONITOR MOUNTED IN THE TRIPLE RADIAL ARM TO THE SKYVISION POWER RACK.
17	MONITOR DISPLAY MOUNTED IN 360 D POSITIONING WITH VST MONITOR AND 4 ADJUSTABLE SHELVES	1"	SURGICAL BOOM MONITOR DISPLAY	4" SQ. X 3.5" DEEP BOX W/1 GANG P-RING	ABOVE CEILING.	SKYVISION POWER RACK	A C D E	REFER TO DETAIL 2/E5.06 FOR POWER AND DATA CONFIGURATION OF 360 D POSITIONING WITH VST MONITOR AND 4 ADJUSTABLE SHELVES. SKYTRON TO PROVIDE WIRING AND SIGNAL CABLES IN ORDER TO INTEGRATE THE MONITOR MOUNTED IN THE SURGICAL BOOM TO THE SKYVISION POWER RACK.

A	EMPTY CONDUITS, TERMINATION AND JUNCTION BOXES MUST BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
B	WIRING MUST BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACT.
C	WIRING MUST BE SUPPLIED AND INSTALLED UNDER SEPARATE CONTRACT.
D	SIGNAL CABLE AND WIRING MUST BE SUPPLIED AND INSTALLED UNDER SEPARATE CONTRACT.
E	EQUIPMENT MUST BE SUPPLIED AND INSTALLED UNDER SEPARATE CONTRACT.

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

MILLER-REMICK LLC PROFESSIONAL ENGINEER

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER THOMAS L. CHAPMAN NO. PE-036244-A

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-5002

SDVOSB

PF&A
PF&A DESIGN
ARCHITECTURE, PLANNING, INTERIORS
World Trade Center
101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: ELECTRICAL O.R. INTEGRATION SYSTEM DETAIL

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Location: HUNTINGTON, WV

Date: 10.31.2014 | Checked: MC | Drawn: DR

Project Number: 581-13-101

Building Number: 1S

Drawing Number: E5.11

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Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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
\\VA98-VA1-DATA-02\CS Huntington WV Renovate Surgical Service and Operating Rooms_Drawings_Cad_Current Submittal Phase\E-Series\11- DR 1 DETAIL -Skytron Integration.dwg 10-31-14 03:38:03 PM thomas