FEEDER SCHEDULE

FEEDER DESIGNATION	NUMBER OF SETS	SIZES (CU) PHASE + NEUTRAL	SIZES (CU) EQUIP. GROUND	CONDUIT SIZE
20	1	#12	#12	3/4"
30	1	#10	#10	3/4"
35	1	#8	#10	1"
40	1	#8	#10	1"
50	1	#6	#10	1-1/4"
60	1	#4	#10	1-1/4"
70	1	#4	#8	1-1/4"
80	1	#3	#8	1-1/2"
90	1	#2	#8	1-1/2"
100	1	#1	#6	2"
125	1	1/0	#6	2"
150	1	1/0	#6	2"
175	1	2/0	#6	2-1/2"
200	1	3/0	#4	2-1/2"
225	1	4/0	#4	3"
250	1	250	#4	3"
300	1	350	#3	3-1/2"
350	1	500	#3	4"
400	2	3/0	#3	2-1/2"
500	2	250	#2	3"
600	2	350	#1	3-1/2"
700	2	400	1/0	3-1/2"
800	2	500	1/0	4"
1000	3	400	2/0	3-1/2"
1200	4	350	3/0	3-1/2"
1600	5	500	4/0	4"
2000	5	600	250	4"
2500	7	500	350	4"
3000	8	500	400	4"
4000	10	600	500	4"
SME	SEE MECHANICAL EQUIP. SCHEDULE			

EACH FEEDER DESIGNATION REPRESENTS (3) PHASE, (1) NEUTRAL, AND (1) EQUIP. GROUND CONDUCTORS UNLESS OTHERWISE NOTED.

TRANSFORMER SCHEDULE

kVA RATING	PRIMARY 480V DELTA [1] FEEDER DESIGNATION	PRIMARY 480V DELTA [2] CIRCUIT BREAKER	SECONDARY 208Y/120V [3] FEEDER DESIGNATION	SECONDARY 208Y/120V [2] CIRCUIT BREAKER	GROUNDING ELECTRODE SIZE (CU)	GROUNDING ELECTRODE DESIGNATION
9	20	20	40	40	#8	A
15	35	35	50	50	#8	B
30	50	50	100	100	#6	C
45	70	70	150	150	#8	D
75	125	125	250	250	#2	E
112.5	175	175	400	400	1/0	F
150	225	225	500	500	2/0	G
225	350	350	800	800	3/0	H
300	500	500	1000	1000	3/0	I
500	800	800	1600	1600	3/0	J

KEYNOTES:
[1] PRIMARY FEEDER IS (3) PHASE CONDUCTORS, NO NEUTRAL.
[2] CIRCUIT BREAKERS ARE 3-POLE AND RATED FOR SCHEDULED VOLTAGE.
[3] SECONDARY FEEDER IS (3) PHASE, (1) NEUTRAL, AND (1) EQUIP. GROUND CONDUCTOR.

GENERAL NOTES:
1. REFER TO FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT SIZES.
2. VOLTAGE DROP SHALL BE CONSIDERED IN FEEDER SIZING. REFER TO ONE LINE DIAGRAM FOR INCREASED SIZES.

ATS SCHEDULES

DESIGNATION	PRIORITY	OPTIONS	AMPS	VOLTAGE	WITHSTAND RATING
ATS-LS1	1	4P BYPASS ISOLATION	100 A	480V	30,000
ATS-LS2	1	4P BYPASS ISOLATION	260 A	480V	25,000
FP ATS & CONTROLLER	1	SERVICE ENTRANCE RATED	150 A	480V	14,000
ATS-CR1	2	4P BYPASS ISOLATION	600 A	480V	35,000
ATS-CR2	2	4P BYPASS ISOLATION	400 A	480V	35,000
ATS-EQ1	3	4P BYPASS ISOLATION	400 A	480V	35,000
ATS-EQ2	3	4P BYPASS ISOLATION	600 A	480V	35,000
ATS-EQ3	3	4P BYPASS ISOLATION	400 A	480V	35,000

LIGHTING FIXTURE SCHEDULE

Type	Description	Manufacturer	Model	Ballast	Mounting	Voltage	Lamp Qty.	Lamp Cat. No.	Total Load
F1	2X4 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START BALLAST. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-232-A125-UNV-ER81; DRYWALL FRAME KIT: FCTKA-24W-U	1	RECESSED GRID OR GYP	UNV	2	F32T8/835	62 VA
F2	2X4 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START BALLAST. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-332-A125-UNV-ER8; DRYWALL FRAME KIT: FCTKA-24W-U	1	RECESSED GRID OR GYP	UNV	3	F32T8/835	86 VA
F4	2X4 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START STEP DIMMING BALLAST WITH 0.88 BALLAST FACTOR. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-232-A125-UNV-HR8-DIM; DRYWALL FRAME KIT: FCTKA-24W-U	1SD	RECESSED GRID OR GYP	UNV	2	F32T8/835	62 VA
F5	2X4 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START STEP DIMMING BALLAST WITH 0.88 BALLAST FACTOR. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-332-A125-UNV-HR8-DIM; DRYWALL FRAME KIT: FCTKA-24W-U	1SD	RECESSED GRID OR GYP	UNV	3	F32T8/835	86 VA
F6	2X4 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START STEP DIMMING BALLAST WITH 0.88 BALLAST FACTOR. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-432-A125-UNV-HR8-DIM; DRYWALL FRAME KIT: FCTKA-24W-U	1SD	RECESSED GRID OR GYP	UNV	4	F32T8/835	107 VA
F7	2X2 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START BALLAST. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-217-A125-UNV-ER8; DRYWALL FRAME KIT: FCTKA-22W-U	1	RECESSED GRID OR GYP	UNV	2	F17T8/835	33 VA
F8	2X2 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START BALLAST. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-317-A125-UNV-ER8; DRYWALL FRAME KIT: FCTKA-22W-U	1	RECESSED GRID OR GYP	UNV	3	F17T8/835	48 VA
F9	2X2 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START BALLAST. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-417-A125-UNV-ER8; DRYWALL FRAME KIT: FCTKA-22W-U	1	RECESSED GRID OR GYP	UNV	4	F17T8/835	60 VA
F10	2X2 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START STEP DIMMING BALLAST WITH 0.88 BALLAST FACTOR. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-217-A125-UNV-HR8-DIM; DRYWALL FRAME KIT: FCTKA-22W-U	1SD	RECESSED GRID OR GYP	UNV	2	F17T8/835	33 VA
F11	2X2 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START STEP DIMMING BALLAST WITH 0.88 BALLAST FACTOR. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-317-A125-UNV-HR8-DIM; DRYWALL FRAME KIT: FCTKA-22W-U	1SD	RECESSED GRID OR GYP	UNV	3	F17T8/835	48 VA
F12	2X2 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START STEP DIMMING BALLAST WITH 0.88 BALLAST FACTOR. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-417-A125-UNV-HR8-DIM; DRYWALL FRAME KIT: FCTKA-22W-U	1SD	RECESSED GRID OR GYP	UNV	4	F17T8/835	60 VA
F13	4' SURFACE MOUNTED LUMINAIRE STAIRWELL WITH OCCUPANCY SENSOR AND ELECTRONIC BALLAST	LUTRON	FXSWXX14SLLC4LL51SMXXWH WITH RADIO POWR SAVR WIRELESS OCCUPANCY SENSOR LRF2-OWLB-P	-	WALL, PER ARCHITECT	UNV	-	PROVIDED WITH FIXTURE	44 VA
F14	2X4 RECESSED GENERAL SURGICAL ASYMMETRIC LUMINAIRE WITH COLD ROLLED STEEL CONSTRUCTION, STAINLESS STEEL DOOR AND HARDWARE, ACYLIC LENS GASKETED IN CHANNEL DOOR FRAME, (2) ELECTRONIC PROGRAM START BALLASTS WITH 0.77 BALLAST	KURTZON	ML-F-2-2X4-6/T8-UNV-(2)EBPRS-2/EM	2 + 1 EM	RECESSED FLANGE	UNV	6	FO32/850/XPS/ ECO3	204 VA
F15	2X4 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START BALLAST. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CEILING	COOPER	FAIL-SAFE: CFF-24-332-UNV-IK12-ER82-AM	2	RECESSED GRID OR GYP	UNV	3	FO32/835/XPS/ ECO3	73 VA
F16	ADJUSTABLE LED MRI DOWNLIGHT	KIRLIN	MRR-04220	-	RECESS	120	-	LED PROVIDED WITH FIXTURE	20 VA
F17	RECESSED LED MULTI-LAMP ADJUSTABLE FIXTURE	KIRLIN	MRR-06426	-	RECESS	120	-	LED PROVIDED WITH FIXTURE	38 VA
F18	6" RECESSED, LENSED 1500 LUMEN LED DOWNLIGHT SELF-FLANGED, LOW IRIDESCENT FINISH WITH ELECTRONIC DIMMING DRIVER	COOPER	PORTFOLIO: LD6A-15-DL3-ERM6A15-935-6LM1-LI	-	RECESSED	UNV	-	LED PROVIDED WITH FIXTURE	22 VA
F19	6" RECESSED, LENSED 2000 LUMEN LED DOWNLIGHT SELF-FLANGED, LOW IRIDESCENT FINISH WITH ELECTRONIC DIMMING DRIVER	COOPER	PORTFOLIO: LD6A-20-DL3-ERM6A20-935-6LM1-LI	-	RECESSED	UNV	-	LED PROVIDED WITH FIXTURE	32 VA
F21	4' SURFACE MOUNTED LUMINAIRE WITH SMOOTH OPAL VIRGIN ACRYLIC DIFFUSER, WHITE POWDER COATED FINISH AND ELECTRONIC PROGRAM START BALLAST	NULITE	16-232T8-UNV-ISN	1	SUSPENDED AT 8'-0"	UNV	2	F32T8/835	64 VA
F22	4'-0" LED COVE LIGHT WITH ADJUSTABLE MOUNTING CLIP. PROVIDE ALL ACCESSORIES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM AND INSTALLATION	ECOSENSE	04LC-48-35-277-120-04-A-MNT-ADJ	-	SURFACE COVE	277	-	LED PROVIDED WITH FIXTURE	21 VA
F23	1'-0" LED COVE LIGHT WITH ADJUSTABLE MOUNTING CLIP. PROVIDE ALL ACCESSORIES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM AND INSTALLATION	ECOSENSE	04LC-12-35-277-120-04-A-MNT-ADJ	-	SURFACE COVE	277	-	LED PROVIDED WITH FIXTURE	5 VA
F24	4'-0" LINEAR DIRECT/INDIRECT FLUORESCENT PENDANT WITH ELECTRONIC BALLAST	COOPER	CORELITE: AP-SP-2T8-1C-277-AC48"-4FT-EF	1	PENDANT, 18" BFC	277	2	F32T8/835	62 VA
F25	6" DIAMETER 5500 LUMEN LED DOWNLIGHT WITH ELECTRONIC DRIVER, CLEAR REFLECTOR AND MATTE DIFFUSE FINISH	GOTHAM	ICO-35/55-6AR-LD-45-277	-	RECESS	277	-	LED PROVIDED WITH FIXTURE	83 VA
F26	2X4 FLUORESCENT LOW PROFILE FIXTURE WITH NANO PRISM LENS AND ELECTRONIC STEP DIMMING BALLAST FOR DUAL LEVEL SWITCHING	COOPER	CORELITE: Z3WN-2T8-1D-277-24-T1-SD	1SD	RECESSED GRID	277	2	F32T8/835	67 VA
F27	RETAIL AREA PENDANT: DIRECT/INDIRECT FLUORESCENT PENDANT WITH EXTRUDED ALUMINUM FRAME AND FROSTED GLASS LENS	FORUM LIGHTING	RGP-4-40-120-EL-WHITE	2	PENDANT	120	4	PL-L-40W/385	170 VA
F28	TRACK LIGHTING: PROVIDE ALL CONNECTORS, CANOPIES, END CAPS, ETC. AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM	TECH LIGHTING	T-TRAK WITH LOW VOLTAGE AERO HEAD. PROVIDE (5) HEADS PER 4 FEET OF TRACK. ALL FINISHES TO BE SELECTED BY ARCHITECT.	-	TRACK	120	1 PER HEAD	50W MR16	300 VA
F29	LOBBY FIXTURE: 6'-0" DIAMETER SKY OCULUS CUSTOM FIXTURE WITH RGB LEDS (SKY BLUE COLOR) AND ELECTRONIC DMX DRIVER	PRUDENTIAL	P8960-(CUSTOM RGB LED)-VWA-TMW-SC-277	-	RECESS	277	-	LED PROVIDED WITH FIXTURE	400 VA
F30	4" DIAMETER LED WALL WASH DOWNLIGHT WITH SPECULAR CLEAR REFLECTOR AND ELECTRONIC DRIVER	COOPER	PORTFOLIO: LD4A-09-D010TE-ERMA09-835-4LM111-L1	-	RECESS	277	-	LED PROVIDED WITH FIXTURE	14 VA
F31	4'-0" LINEAR RECESSED FLUORESCENT FIXTURE WITH SATIN WHITE REGRESS LENS AND ELECTRONIC BALLAST	COOPER	NEO-RAY: 23DR-2T8-4-2-EB-SI-S93	1	RECESS	277	2	F32T8/835	67 VA
F33	ELEVATOR PIT LIGHT: VAPOR-TIGHT FLUORESCENT LIGHT FIXTURE WITH CAST GUARD GLASS GLOBE	PHOENIX LIGHTING	VP-32CFL-120-GCL-G-BLK	1	SURFACE WALL	120	1	PL-T-32W/835	37 VA
F34	4'-0" LINEAR DIRECT/INDIRECT FLUORESCENT PENDANT WITH ELECTRONIC BALLAST	COOPER	CORELITE: AP-SP-2T8-1C-277-AC48"-4FT-EF	1	PENDANT, 12" BFC	277	2	F32T8/835	62 VA
F35	WAITING ROOMS: 2X2 FLUORESCENT LOW PROFILE FIXTURE WITH NANO PRISM LENS AND ELECTRONIC BALLAST	COOPER	CORELITE: Z3WN-2T8-1C-277-22-T1	1	RECESSED GRID	277	2	F17T8/835	33 VA
F36	2X2 FLURESCENT RECESSED TROFFER CLASS I, DIV. 2 RATED	KENALL	HSEGC022-2-17-RS-1-277-2F-2H-U	1	RECESSED GRID	277	2	F17T8/835	33 VA
F37	DECORATIVE VANITY FIXTURE FOR PUBLIC TOILETS	COOPER	SHAPER: 604-36"-W-T5/2/21-277/V-SN	1	SURFACE WALL	277	2	F21T5/835	44 VA
F38	(SAME AS F4) 2X4 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START STEP DIMMING BALLAST WITH 0.88 BALLAST FACTOR. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-232-A125-UNV-HR8-DIM; DRYWALL FRAME KIT: FCTKA-24W-U	1SD	RECESSED GRID OR GYP	120	2	F32T8/835	62 VA
F39	(SAME AS F15) 2X4 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START BALLAST. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CEILING	COOPER	FAIL-SAFE: CFF-24-332-UNV-IK12-ER82-AM	2	RECESSED GRID OR GYP	120	3	FO32/835/XPS/ ECO3	73 VA
F40	(SAME AS F2) 2X4 FLUORESCENT RECESSED TROFFER WITH 0.125" ACRYLIC LENS AND ELECTRONIC PROGRAM START BALLAST. PROVIDE DRYWALL FRAME KIT WHERE MOUNTED IN GYPSUM CELING.	COOPER	METALUX: 2GC8-332-A125-UNV-ER8; DRYWALL FRAME KIT: FCTKA-24W-U	1	RECESSED GRID OR GYP	120	3	F32T8/835	86 VA
F41	6" RECESSED, LENSED 2000 LUMEN LED DOWNLIGHT SELF-FLANGED, LOW IRIDESCENT FINISH WITH ELECTRONIC DIMMING DRIVER	COOPER	PORTFOLIO: LD6A-20-DL3-ERM6A20-935-6LM1-LI	-	RECESS	120	-	LED PROVIDED WITH FIXTURE	32 VA
F42	4' SURFACE MOUNTED LUMINAIRE WITH SMOOTH OPAL VIRGIN ACRYLIC DIFFUSER, WHITE POWDER COATED FINISH AND ELECTRONIC PROGRAM START BALLAST	NULITE	16-232T8-UNV-ISN	1	SUSPENDED AT 8'-0"	120	2	F32T8/835	64 VA
F43	DECORATIVE LED PENDANT LIGHT WITH LAMP ENCLOSURE FOR FOOD HANDLING AREA OR AS REQUIRED BY STATE HEALTH DEPARTMENT	TECH LIGHTING	700FJ-FIRFAS-LED WITH LAMP ENCLOSURE FOR FOOD AREA	-	PENDANT	120	-	LED PROVIDED WITH FIXTURE	6 VA
F44	DECORATIVE PENDANT LIGHT	TECH LIGHTING	700FJ-FIRAS-12V	-	PENTANT	120	1	50W HALOGEN	50 VA
F45	1X4 RECESSED GENERAL SURGICAL ASYMMETRIC LUMINAIRE WITH COLD ROLLED STEEL CONSTRUCTION, STAINLESS STEEL DOOR AND HARDWARE, ACYLIC LENS GASKETED IN CHANNEL DOOR FRAME, (2) ELECTRONIC PROGRAM START BALLASTS WITH 0.77 BALLAST	KURTZON	ML-F-2-1X4-3/T8-UNV-(2)EBPRS-2/EM	2 + 1 EM	RECESSED FLANGE	UNV	3	FO32/850/XPS/ ECO3	101 VA
F46	2X2 RECESSED GENERAL SURGICAL ASYMMETRIC LUMINAIRE WITH COLD ROLLED STEEL CONSTRUCTION, STAINLESS STEEL DOOR AND HARDWARE, ACYLIC LENS GASKETED IN CHANNEL DOOR FRAME, (2) ELECTRONIC PROGRAM START BALLASTS WITH 0.77 BALLAST	KURTZON	ML-F-2-2X2-6/T8-UNV-(2)EBPRS-2/EM	2 + 1 EM	RECESSED FLANGE	UNV	6	FO17/850/XPS/ ECO3	110 VA

EXIT SIGN FIXTURE SCHEDULE

Type	Description	Manufacturer	Model	Ballast	Mounting	Voltage	Lamp Qty.	Lamp Cat. No.	Total Load
X1	DIE-CAST ALUMINUM EMERGENCY EXIT SIGN WITH BLACK HOUSING, RED LETTERS, DUAL VOLTAGE, SINGLE FACE, CEILING MOUNTED, CHEVRONS PER DRAWINGS	COOPER LIGHTING	SURE-LITES: CX6 (FACES PER DRAWINGS) BK-RED LETTERS	-	SURFACE CEILING	UNV	-	LED	3 VA
X2	DIE-CAST ALUMINUM EMERGENCY EXIT SIGN WITH BLACK HOUSING, RED LETTERS, DUAL VOLTAGE, DOUBLE FACE, CEILING MOUNTED, CHEVRONS PER DRAWINGS	COOPER LIGHTING	SURE-LITES: CX6 (FACES PER DRAWINGS) BK-RED LETTERS	-	SURFACE CEILING	UNV	-	LED	3 VA
X3	DIE-CAST ALUMINUM EMERGENCY EXIT SIGN WITH BLACK HOUSING, RED LETTERS, DUAL VOLTAGE, FLUSH MOUNTED ON WALL, FACES/CHEVRONS PER DRAWINGS	COOPER LIGHTING	SURE-LITES: CX6 (FACES PER DRAWINGS) BK-RED LETTERS	-	END MOUNTED ON WALL	UNV	-	LED	3 VA
X4	DIE-CAST ALUMINUM EMERGENCY EXIT SIGN WITH BLACK HOUSING, RED LETTERS, DUAL VOLTAGE, END-MOUNTED ON WALL, FACES/CHEVRONS PER DRAWINGS	COOPER LIGHTING	SURE-LITES: CX6 (FACES PER DRAWINGS) BK-RED LETTERS	-	FLUSH MOUNTED ON WALL	UNV	-	LED	3 VA

SITE LIGHTING FIXTURE SCHEDULE

Type	Description	Manufacturer	Model	Ballast	Mounting	Voltage	Lamp Qty.	Lamp Cat. No.	Total Load
EF1	SITE LED LUMINAIRE WITH TYPE III OPTICS WITH SPILL CONTROL, 30'-0" POLE, DUAL HEAD	LITHONIA	DSX2 LED 80C 1000 40K T5W MVOLT	-	POLE MOUNT, +28'-0"	MVOLT	2	LED PROVIDED WITH FIXTURE	550 VA
EF2	SITE LED LUMINAIRE WITH TYPE III OPTICS WITH SPILL CONTROL, 30'-0" POLE, SINGLE HEAD	LITHONIA	DSX2 LED 80C 1000 40K T3M MVOLT HS	-	POLE MOUNT, +28'-0"	MVOLT	1	LED PROVIDED WITH FIXTURE	275 VA
EF3	SITE LED LUMINAIRE WITH TYPE III OPTICS WITH SPILL CONTROL, 12'-0" POLE, DUAL HEAD	LITHONIA	DSX1 LED 60C 700 40K T3M MVOLT	-	POLE MOUNT, +12'-0"	MVOLT	2	LED PROVIDED WITH FIXTURE	262 VA
EF4	SITE LED LUMINAIRE WITH TYPE III OPTICS WITH SPILL CONTROL, 12'-0" POLE, SINGLE HEAD	LITHONIA	DSX1 LED 60C 1000 40K T3M MVOLT	-	POLE MOUNT, +12'-0"	MVOLT	1	LED PROVIDED WITH FIXTURE	209 VA
EF5	HYDREL LED LIGHTED BOLLARD	HYDREL	3110-36-LED-WHT30K-277-SYM-ELN-BZ/PL		BOLLARD, 3'-0"	277	16	LED PROVIDED WITH FIXTURE	60 VA
EF6	QUADRA INGRADE LED STEP LIGHT	INSIGHT	QD12/40K/CW/15/2/TL8/VS	-	CONCRETE WALL	277	-	LED PROVIDED WITH FIXTURE	15 VA
EF7	ROOF: LED WALL PACK WITH BRONZE FINISH	COOPER	MCGRAW-EDISON: IST-B02-LED-E1-BL2-BZ	-	SURFACE WALL	120/277	-	LED PROVIDED WITH FIXTURE	51 VA
EF8	FLAG POLE: IN-GRADE NARROW SPOT ADJUSTABLE LED FIXTURE	COOPER	LUMIERE: 3002A-RD-18LED4000-SP-NSL-UNV-BZ		IN-GRADE	120/277	1	LED PROVIDED WITH FIXTURE	18 VA
EF9	WALL WASH: IN-GRADE MEDIUM FLOOD ADJUSTABLE LED FIXTURE	COOPER	LUMIERE: 3002A-RD-18LED4000-MFL-NSL-UNV-BZ		IN-GRADE	120/277	1	LED PROVIDED WITH FIXTURE	18 VA
EF10	LED CANOPY LUMINAIRE	COOPER	MCGRAW-EDISON: TTA1-LED-E1-MIQ-(FINISH)	-	SURFACE	120/277	-	LED PROVIDED WITH FIXTURE	34 VA
EF11	LED CANOPY LUMINAIRE	COOPER	MCGRAW-EDISON: CNC-C04-LED-E1-SQ-(FINISH)-SM	-	SURFACE	120/277	-	LED PROVIDED WITH FIXTURE	101 VA
EF12	SITE LED LUMINAIRE WITH TYPE III OPTICS WITH SPILL CONTROL, 30'-0" POLE, SINGLE HEAD	LITHONIA	DSX2 LED 80C 1000 40K T3M MVOLT	-	POLE MOUNT, +28'-0"	MVOLT	-	LED PROVIDED WITH FIXTURE	275 VA

Revisions:		Date
1	ASI #008 - CD2 Submission	08/08/14

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ISSUED FOR CONSTRUCTION

Drawing Title: **ELECTRICAL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E601**

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MECHANICAL EQUIPMENT CIRCUIT SCHEDULE

Load Name	Source Panel	Circuit #	Volts	Load	Feeders	Circuit Breaker	Poles	Comments
AC-1 LOADING DOCK AIR CURTAIN-1	BLGB	44,46	208 V	3680 VA	(2#10+#10G) 3/4"C	30 A	2	VERIFY ELECTRICAL REQUIREMENTS PRIOR TO INSTALLATION. PROVIDE 30A 2P DISCONNECT.
AHU-1-R1 RETURN FAN 0B46-1	BHGC	7,9,11	480 V	24699 VA	(3#8+#10G) 3/4"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-1-R2 RETURN FAN 0B44	BHGC	2,4,6	480 V	24699 VA	(3#8+#10G) 3/4"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-1-S1 SUPPLY FAN 0B46-1	BHGC	13,15,17	480 V	47008 VA	(3#2+#8G) 1-1/4"C	90 A	3	PROVIDE CONNECTION TO VFD.
AHU-1-S2 SUPPLY FAN 0B44	BHGC	8,10,12	480 V	47008 VA	(3#2+#8G) 1-1/4"C	90 A	3	PROVIDE CONNECTION TO VFD.
AHU-2-R1 RETURN FAN 0B46-1	BHGC	20,22,24	480 V	24699 VA	(3#8+#10G) 3/4"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-2-R2 RETURN FAN 0B44	BHGC	14,16,18	480 V	24699 VA	(3#8+#10G) 3/4"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-2-S1 SUPPLY FAN 0B46-1	BHGC	25,27,29	480 V	57366 VA	(3#2+#8G) 1-1/4"C	110 A	3	PROVIDE CONNECTION TO VFD.
AHU-2-S2 SUPPLY FAN 0B44	BHGC	26,28,30	480 V	57366 VA	(3#2+#8G) 1-1/4"C	110 A	3	PROVIDE CONNECTION TO VFD.
AHU-3-R1 RETURN FAN 0B46-1	BHGC	31,33,35	480 V	24699 VA	(3#8+#10G) 3/4"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-3-R2 RETURN FAN 0B44	BHGC	19,21,23	480 V	24699 VA	(3#8+#10G) 3/4"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-3-S1 SUPPLY FAN 0B46-1	BHGC	37,39,41	480 V	57366 VA	(3#2+#8G) 1-1/4"C	110 A	3	PROVIDE CONNECTION TO VFD.
AHU-3-S2 SUPPLY FAN 0B44	BHGC	38,40,42	480 V	57366 VA	(3#2+#8G) 1-1/4"C	110 A	3	PROVIDE CONNECTION TO VFD.
AHU-4-R1 RETURN FAN 6B03	AHP	11,13,15	480 V	24699 VA	(3#8+#10G) 3/4"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-4-R2 RETURN FAN 6B04	AHP	14,16,18	480 V	24699 VA	(3#8+#10G) 3/4"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-4-S1 SUPPLY FAN 6B03	AHP	20,22,24	480 V	47008 VA	(3#2+#8G) 1-1/4"C	110 A	3	PROVIDE CONNECTION TO VFD.
AHU-4-S2 SUPPLY FAN 6B04	AHP	23,25,27	480 V	47008 VA	(3#2+#8G) 1-1/4"C	110 A	3	PROVIDE CONNECTION TO VFD.
AHU-5-R1 RETURN FAN 6E01	CHP	8,10,12	480 V	18325 VA	(3#10+#10G) 3/4"C	50 A	3	PROVIDE CONNECTION TO VFD.
AHU-5-R2 RETURN FAN 6E01	CHP	11,13,15	480 V	18325 VA	(3#10+#10G) 3/4"C	50 A	3	PROVIDE CONNECTION TO VFD.
AHU-5-S1 SUPPLY FAN 6E01	CHP	14,16,18	480 V	35057 VA	(3#4+#8G) 1-1/4"C	70 A	3	PROVIDE CONNECTION TO VFD.
AHU-5-S2 SUPPLY FAN 6E01	CHP	17,19,21	480 V	35057 VA	(3#4+#8G) 1-1/4"C	70 A	3	PROVIDE CONNECTION TO VFD.
AHU-6-R1 RETURN FAN 6D01	BHP	29,31,33	480 V	18325 VA	(3#10+#10G) 3/4"C	50 A	3	PROVIDE CONNECTION TO VFD.
AHU-6-R2 RETURN FAN 6D01	BHP	32,34,36	480 V	18325 VA	(3#10+#10G) 3/4"C	50 A	3	PROVIDE CONNECTION TO VFD.
AHU-6-S1 SUPPLY FAN-1 6D01	BHP	41,43,45	480 V	30277 VA	(3#6+#8G) 1"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-6-S2 SUPPLY FAN-2	BHP	44,46,48	480 V	30277 VA	(3#6+#8G) 1"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-7-R1 RETURN FAN	AHQP	20,22,24	480 V	18325 VA	(3#8+#10G) 3/4"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-7-R2 RETURN FAN 6B04	AHQP	25,27,29	480 V	18325 VA	(3#8+#10G) 3/4"C	60 A	3	PROVIDE CONNECTION TO VFD.
AHU-7-S1 SUPPLY FAN	AHQP	26,28,30	480 V	35057 VA	(3#4+#8G) 1-1/4"C	70 A	3	PROVIDE CONNECTION TO VFD.
AHU-7-S2 SUPPLY FAN-2	AHQP	38,40,42	480 V	35057 VA	(3#4+#8G) 1-1/4"C	70 A	3	PROVIDE CONNECTION TO VFD.
AHU-8-R1 RETURN FAN 6D01	BHP	38,40,42	480 V	18325 VA	(3#10+#10G) 3/4"C	50 A	3	PROVIDE CONNECTION TO VFD.
AHU-8-R2 RETURN FAN 6D01	BHP	35,37,39	480 V	18325 VA	(3#10+#10G) 3/4"C	50 A	3	PROVIDE CONNECTION TO VFD.
AHU-8-S1 SUPPLY FAN MECHANICAL 6D01	BHP	47,49,51	480 V	35057 VA	(3#4+#8G) 1-1/4"C	70 A	3	PROVIDE CONNECTION TO VFD.
AHU-8-S2 6D01	BHP	50,52,54	480 V	35057 VA	(3#4+#8G) 1-1/4"C	70 A	3	PROVIDE CONNECTION TO VFD.
B-1 BOILER-1 5B103	CPHQ	11,13,15	480 V	13200 VA	(3#10+#10N+#10G) 3/4"C	25 A	3	PROVIDE 30A 3P FUSIBLE DISCONNECT.
B-2 BOILER-2 5B103	CPHQ	16,18,20	480 V	13200 VA	(3#10+#10N+#10G) 3/4"C	25 A	3	PROVIDE 30A 3P FUSIBLE DISCONNECT.
B-3 BOILER-3 5B103	CPHQ	17,19,21	480 V	13200 VA	(3#10+#10N+#10G) 3/4"C	25 A	3	PROVIDE 30A 3P FUSIBLE DISCONNECT.
CAD-1 COMPRESSED AIR DRYER-1	ALE4L	23	120 V	1500 VA	(2#12+#12N+#12G) 3/4"C	20 A	1	
CF-1 CONDENSER FILTER-1	CPHB	1,3,5	480 V	11154 VA	(3#12+#12N+#12G) 3/4"C	35 A	3	
CF-2 CONDENSER FILTER-2	CPHB	2,4,6	480 V	11154 VA	(3#12+#12N+#12G) 3/4"C	35 A	3	
CH-1 CHILLER-1 5B104	CP-SWGR	4	480 V	369689 VA	(2-(3-350KCMIL+#1G) 3-1/2"C)	600 A	3	PROVIDE CONNECTION TO INTERNAL VFD.
CH-2 CHILLER-2 5B104	CP-SWGR	5	480 V	369689 VA	(2-(3-350KCMIL+#1G) 3-1/2"C)	600 A	3	PROVIDE CONNECTION TO INTERNAL VFD.
CH-MRI-1A65	AH2	1,3,5	480 V	38244 VA	(3#4+#10G) 1"C	60 A	3	PROVIDE 60A 3P NEMA 3R FUSIBLE DISCONNECT. CONFIRM ELECTRICAL REQUIREMENTS WITH SITE SPECIFIC DRAWINGS.
CH-MRI-1A67	AH2	2,4,6	480 V	38244 VA	(3#4+#10G) 1"C	60 A	3	PROVIDE 60A 3P NEMA 3R FUSIBLE DISCONNECT. CONFIRM ELECTRICAL REQUIREMENTS WITH SITE SPECIFIC DRAWINGS.
CONDENSOR FOR CANTEEN WALK-IN REFRIGERATED SPACE.	<unnamed>		480 V	0 VA	TBD	0 A	3	CONFIRM ALL ELECTRICAL REQUIREMENTS WITH VENDOR SHOP DRAWINGS WHEN AVAILABLE.
CP-1 CONDENSER PUMP-1 5B104	CPHA	20,22,24	480 V	51720 VA	(3#2+#6G) 1-1/4"C	100 A	3	PROVIDE CONNECTION TO VFD.
CP-2 CONDENSER PUMP-2 5B104	CPHA	25,27,29	480 V	51720 VA	(3#2+#6G) 1-1/4"C	100 A	3	PROVIDE CONNECTION TO VFD.
CP-3 CONDENSER PUMP-3 5B104	CPHA	26,28,30	480 V	51720 VA	(3#2+#6G) 1-1/4"C	100 A	3	PROVIDE CONNECTION TO VFD.
CRAC-0A01 MCR 0B39	BHQG	19,21,23	480 V	31232 VA	(3#6+#6N+#10G) 1"C	50 A	3	PROVIDE CONNECTION TO VFD.
CRAC-0A02 MCR 0B39	BHQG	14,16,18	480 V	31232 VA	(3#6+#6N+#10G) 1"C	50 A	3	PROVIDE CONNECTION TO VFD.
CT-1 FAN-1 COOLING TOWER	CPHA	14,16,18	480 V	41431 VA	(3#4+#8G) 1-1/4"C	125 A	3	PROVIDE CONNECTION TO VFD IN CEP. PROVIDE 100A 3P NEMA 3R DISCONNECT OUTSIDE AT THE COOLING TOWER. PROVIDE CONNECTION FROM VFD TO DISCONNECT.
CT-1 FAN-2 COOLING TOWER	CPHA	19,21,23	480 V	41431 VA	(3#4+#8G) 1-1/4"C	125 A	3	PROVIDE CONNECTION TO VFD IN CEP. PROVIDE 100A 3P NEMA 3R DISCONNECT OUTSIDE AT THE COOLING TOWER. PROVIDE CONNECTION FROM VFD TO DISCONNECT.
CT-1H1 COOLING TOWER HEATER-1	CPHA	31,33,35	480 V	24000 VA	(3#8+#10G) 3/4"C	40 A	3	PROVIDE 60A 3P NEMA 3R FUSIBLE DISCONNECT. PROVIDE GROUND FAULT OVERCURRENT RELAY. PROVIDE CONNECTION TO BASIN HEATER CONTROL PANEL.
CT-1H2 COOLING TOWER HEATER-2	CPHA	32,34,36	480 V	24000 VA	(3#8+#10G) 3/4"C	20 A	3	PROVIDE 60A 3P NEMA 3R FUSIBLE DISCONNECT. PROVIDE GROUND FAULT OVERCURRENT RELAY. PROVIDE CONNECTION TO BASIN HEATER CONTROL PANEL.
CU-6A01	AHQP	13,15,17	480 V	5657 VA	(3#12+#12G) 3/4"C	20 A	3	PROVIDE 30A 3P NEMA 3R DISCONNECT.
CU-6A02	AHQP	14,16,18	480 V	9321 VA	(3#10+#10G) 3/4"C	25 A	3	PROVIDE 30A 3P NEMA 3R DISCONNECT.
CU-6A03	AHQP	8,10,12	480 V	9321 VA	(3#10+#10G) 3/4"	25 A	3	PROVIDE 30A 3P NEMA 3R DISCONNECT.
CU-6B01	BHQP	32,34,36	480 V	5657 VA	(3#12+#12G) 3/4"C	20 A	3	PROVIDE 30A 3P NEMA 3R FUSIBLE DISCONNECT.
CU-6B02	BHQP	44,46,48	480 V	9321 VA	(3#10+#10G) 3/4"C	25 A	3	PROVIDE 30A 3P NEMA 3R FUSIBLE DISCONNECT.
CU-6B03	BHQP	38,40,42	480 V	12110 VA	(3#8+#10G) 3/4"C	35 A	3	PROVIDE 30A 3P NEMA 3R FUSIBLE DISCONNECT.
CU-6B04 PRE-OP 5C54	BHQP	14,16,18	480 V	2789 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
CU-6B05 PRE-OP 5C54	BHQP	17,19,21	480 V	2789 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
CU-6C01 CONDENSING UNIT-6C01	CHQP	13,15,17	480 V	5657 VA	(3#12+#12G) 3/4"C	20 A	3	PROVIDE 30A 3P NEMA 3R DISCONNECT.
CU-6C02	CHQP	7,9,11	480 V	5657 VA	(3#12+#12G) 3/4"C	20 A	3	PROVIDE 30A 3P NEMA 3R DISCONNECT.
CU-6C03	CHQP	2,4,6	480 V	9321 VA	(3#10+#10G) 3/4"C	25 A	3	PROVIDE 30A 3P NEMA 3R DISCONNECT.
CU-LAB CONDENSER FOR GROUND LEVEL LAB WALK-IN REFRIGERATED SPACE	BLQP	20,22,24	208 V	4107 VA	(3#12+#12N+#12G) 3/4"C	20 A	3	VERIFY ALL ELECTRICAL REQUIREMENTS WITH VENDOR SHOP DRAWINGS WHEN RECEIVED.
CUH CABINET UNIT HEATER STAIR 1	BL1B	49	120 V	64 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE THERMAL OVERLOAD SWITCH.
CUH-1 CABINET UNIT HEATER 0S03	ALGB	3	120 V	64 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE THERMAL OVERLOAD SWITCH.
CUH-1 CABINET UNIT HEATER 2 1S02	AL1B	3	120 V	64 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE THERMAL OVERLOAD SWITCH.
CUH-1 CABINET UNIT HEATER 4 1S04	BL1A	5	120 V	64 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE THERMAL OVERLOAD SWITCH.
CUH-1 CABINET UNIT HEATERS 1S07, 1S06	CL1B	5	120 V	128 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE THERMAL OVERLOAD SWITCH.
CUH-1,CUH-2 CABINET UNIT HEATER 0S01-1 0S05	BLGA	5	120 V	128 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE THERMAL OVERLOAD SWITCH.
CWP-1 CHILLED WATER PUMP-1 5B104	CPHQ	29,31,33	480 V	41380 VA	(3#4+#8G) 1-1/4"C	80 A	3	PROVIDE CONNECTION TO VFD.
CWP-2 CHILLED WATER PUMP-2 5B104	CPHA	8,10,12	480 V	41380 VA	(3#4+#8G) 1-1/4"C	80 A	3	PROVIDE CONNECTION TO VFD.
CWP-3 CHILLED WATER PUMP-3 5B104	CPHA	13,15,17	480 V	41380 VA	(3#4+#8G) 1-1/4"C	80 A	3	PROVIDE CONNECTION TO VFD.
DAC-1 DENTAL AIR COMPRESSOR	AH4	10,12,14	480 V	11154 VA	(3#12+#12N+#12G) 3/4"C	30 A	3	PROVIDE 30A 3P FUSIBLE DISCONNECT.
DAC-1 DENTAL AIR COMPRESSOR	AH4	13,15,17	480 V	11154 VA	(3#12+#12N+#12G) 3/4"C	30 A	3	PROVIDE 30A 3P FUSIBLE DISCONNECT.
DHWP-1 DOMESTIC HOT WATER PUMP-1	ALGB	43	120 V	506 VA	(3#12+#12G) 3/4"C	20 A	1	CONFIRM ALL ELECTRICAL REQUIREMENTS WITH SHOP DRAWINGS PRIOR TO INSTALLATION. PROVIDE THERMAL DISCONNECT SWITCH.
DHWP-2 DOMESTIC HOT WATER PUMP-2	CHP	20,22,24	480 V	1673 VA	(3#12+#12G) 3/4"C	15 A	3	CONFIRM ALL ELECTRICAL REQUIREMENTS WITH SHOP DRAWINGS PRIOR TO INSTALLATION. PROVIDE 30A 3P FUSIBLE DISCONNECT.
DHWP-3 DOMESTIC HOT WATER PUMP-3	CHP	23,25,27	480 V	1673 VA	(3#12+#12G) 3/4"C	15 A	3	CONFIRM ALL ELECTRICAL REQUIREMENTS WITH SHOP DRAWINGS PRIOR TO INSTALLATION. PROVIDE 30A 3P FUSIBLE DISCONNECT.
DVC-1 DENTAL VACUUM PUMP	AH4	4,6,8	480 V	8764 VA	(3#12+#12N+#12G) 3/4"C	25 A	3	CONNECTION TO INTERNAL VFD.
DVC-1 DENTAL VACUUM PUMP	AH4	7,9,11	480 V	8764 VA	(3#12+#12N+#12G) 3/4"C	25 A	3	CONNECTION TO INTERNAL VFD.
DW-1 DUMBWAITER-1 ELEVATOR MACH 0D01	BHQG	7,9,11	480 V	25495 VA	(3#8+#8G) 1"C	40 A	3	PROVIDE A 60A FUSIBLE DISCONNECT WITH CURRENT LIMITING FUSES PER SHOP DRAWINGS.
DW-2 DUMBWAITER-2 ELEVATOR MACH 0D01	BHQG	8,10,12	480 V	25495 VA	(3#8+#8G) 1"C	40 A	3	PROVIDE A 60A FUSIBLE DISCONNECT WITH CURRENT LIMITING FUSES PER SHOP DRAWINGS.
DW-3 DUMBWAITER-3 ELEVATOR MACH 0D01	BHQG	31,33,35	480 V	25495 VA	(3#8+#8G) 1"C	40 A	3	PROVIDE A 60A FUSIBLE DISCONNECT WITH CURRENT LIMITING FUSES PER SHOP DRAWINGS.
DW-4 DUMBWAITER-4 ELEVATOR MACH 0D01	BHQG	32,34,36	480 V	25495 VA	(3#8+#8G) 1"C	40 A	3	PROVIDE A 60A FUSIBLE DISCONNECT WITH CURRENT LIMITING FUSES PER SHOP DRAWINGS.
DWBP-1 DOMESTIC WATER BOOSTER PUMP-1	BHQG	13,15,17	480 V	8764 VA	(3#12+#12G) 3/4"C	25 A	3	PROVIDE CONNECTION TO VFD.
DWBP-2 DOMESTIC WATER BOOSTER PUMP-2	BHQG	38,40,42	480 V	8764 VA	(3#12+#12G) 3/4"C	25 A	3	PROVIDE CONNECTION TO VFD.
DWBP-3 DOMESTIC WATER BOOSTER PUMP-3	BHQG	37,39,41	480 V	8764 VA	(3#12+#12G) 3/4"C	25 A	3	PROVIDE CONNECTION TO VFD.
EF-0B01	BLGB	13	120 V	1127 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE THERMAL OVERLOAD SWITCH.
EF-1B01	BH1	9,11,13	480 V	2709 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-1B02	PLC1	7	120 V	506 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-1B03	PLC1	9	120 V	506 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-1B04	BL1A	32	120 V	506 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-1B05	BL1A	33	120 V	506 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-1B06	BL1A	35	120 V	506 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-1B07	ALGA	5	120 V	506 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-1B08	ALGA	14,16	208 V	1580 VA	(2#12+#12G) 3/4"C	15 A	2	PROVIDE 30A NEMA 3R DISCONNECT.
EF-1P01	CPLQ	20,22	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P NEMA 3R DISCONNECT.
EF-1P02	CPLQ	21,23	208 V	1587 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P NEMA 3R DISCONNECT.
EF-1P03	CPLQ	16	120 V	1127 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-2A01	ALQP	8,10	208 V	1840 VA	(3#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P NEMA 3R DISCONNECT.
EF-2A02	AH2	19,21,23	480 V	1673 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-2A03	AL2A	11	120 V	667 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-2A04	AL2A	20	120 V	1127 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-2C01	CL2B	4	120 V	667 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-3A01	AL3B	8	120 V	667 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-3A02	AL3A	7	120 V	506 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-5A01	AL5A	6	120 V	1127 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-5A02	AL5B	9	120 V	667 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-5A03	AH5	19,21,23	480 V	2709 VA	(3#12+#12G) 3/4"C	20 A	3	PROVIDE CONNECTION TO VFD.
EF-5A04	AH5	18,20,22	480 V	1673 VA	(3#12+#12G) 3/4"C	20 A	3	PROVIDE CONNECTION TO VFD.
EF-6A01	ALQP	7	120 V	506 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-6A02	ALP	4	120 V	1587 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-6A03	ALP	6,8	208 V	1840 VA	(2#12+#12G) 3/4"C	15 A	2	PROVIDE 30A 2P NEMA 3R DISCONNECT.
EF-6A04	AHQP	31,33,35	480 V	2390 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.

MECHANICAL EQUIPMENT CIRCUIT SCHEDULE

Load Name	Source Panel	Circuit #	Volts	Load	Feeders	Circuit Breaker	Poles	Comments
EF-6A05	AHQP	37,39,41	480 V	2390 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6A06	AHP	2,4,6	480 V	2390 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6A07	ALP	1	120 V	506 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-6A08A	AHQP	2,4,6	480 V	2709 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6A08B	AHQP	7,9,11	480 V	0 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6A09	AHP	8,10,12	480 V	3810 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6B01	BLP	6	120 V	1587 VA	(#12+#12N+#12G) 3/4"C	30 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-6B02	BHP	14,16,18	480 V	2709 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6B03	BHP	2,4,6	480 V	2709 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6B04	BLP	11	120 V	667 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-6B05	BLP	3	120 V	696 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-6B06	BHP	17,19,21	480 V	2709 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6B07	BLP	8	120 V	1127 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-6B08	BLP	9	120 V	1587 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-6B09	BHQP	8,10,12	480 V	6055 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6B10	BHQP	20,22,24	480 V	2390 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6B11	BHP	8,10,12	480 V	2709 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6B12	BHP	11,13,15	480 V	2709 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
EF-6B13A	BHQP	26,28,30	480 V	8764 VA	(3#12+#12G) 3/4"C	25 A	3	PROVIDE CONNECTION TO VFD.
EF-6B13B	BHQP	29,31,33	480 V	0 VA	(3#12+#12G) 3/4"C	25 A	3	PROVIDE CONNECTION TO VFD.
EF-6C01	CLP	5,7	208 V	1580 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P NEMA 3R DISCONNECT.
EF-6C02	CLP	4	120 V	1127 VA	(#12+#12N+#12G) 3/4"C	20 A	1	PROVIDE WEATHERPROOF THERMAL OVERLOAD SWITCH.
EF-6C03	CLP	9,11	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P NEMA 3R DISCONNECT SWITCH.
EF-6C04	CLP	6,8	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P NEMA 3R DISCONNECT SWITCH.
EF-6C05	CHP	2,4,6	480 V	2390 VA	(3#12+#12G) 3/4"C	15 A	3	PROVIDE CONNECTION TO VFD.
ELEV-1 ELEVATOR MACH 0D01	BHQG	1,3,5	480 V	37150 VA	(3#6+#6G) 1"C	60 A	3	PROVIDE 60A FUSIBLE DISCONNECT WITH 50 A CURRENT LIMITING FUSES PER SHOP DRAWINGS.
ELEV-2 ELEVATOR MACH 0D01	CHGA	7,9,11	480 V	37150 VA	(3#6+#6G) 1"C	60 A	3	PROVIDE 60A FUSIBLE DISCONNECT WITH 50 A CURRENT LIMITING FUSES PER SHOP DRAWINGS.
ELEV-3 ELEVATOR MACH 0D01	BHQG	2,4,6	480 V	37150 VA	(3#6+#6G) 1"C	60 A	3	PROVIDE 60A FUSIBLE DISCONNECT WITH 50 A CURRENT LIMITING FUSES PER SHOP DRAWINGS.
ELEV-4 ELEVATOR MACH 0D01	CHGA	20,22,24	480 V	37150 VA	(3#6+#6G) 1"C	60 A	3	PROVIDE 60A FUSIBLE DISCONNECT WITH 50 A CURRENT LIMITING FUSES PER SHOP DRAWINGS.
ELEV-5	AHQP	32,34,36	480 V	45358 VA	(3#6+#6G) 1"C	60 A	3	PROVIDE 60A FUSIBLE DISCONNECT WITH 60 A CURRENT LIMITING FUSES PER SHOP DRAWINGS.
ELEV-6	AHP	17,19,21	480 V	45358 VA	(3#6+#6G) 1"C	60 A	3	PROVIDE 60A FUSIBLE DISCONNECT WITH 60 A CURRENT LIMITING FUSES PER SHOP DRAWINGS.
ELEV-7	BHQP	47,49,51	480 V	45438 VA	(3#6+#6G) 1"C	60 A	3	PROVIDE 60A FUSIBLE DISCONNECT WITH 60 A CURRENT LIMITING FUSES PER SHOP DRAWINGS.
ELEV-8	BHP	53,55,57	480 V	45438 VA	(3#6+#6G) 1"C	60 A	3	PROVIDE 60A FUSIBLE DISCONNECT WITH 60 A CURRENT LIMITING FUSES PER SHOP DRAWINGS.
ESP-1 ELEV SUMP PUMP-1	BLQG	9,11	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P DISCONNECT.
ESP-2 ELEV SUMP PUMP-2	BLQG	10,12	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P DISCONNECT.
ESP-3 ELEV SUMP PUMP-3	BLQG	13,15	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P DISCONNECT.
ESP-4 ELEV SUMP PUMP-4	BLQG	14,16	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P DISCONNECT.
ESP-5 ELEV SUMP PUMP-5	BLQG	1,3	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P DISCONNECT.
ESP-6 ELEV SUMP PUMP-6	BLQG	2,4	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P DISCONNECT.
ESP-7 ELEV SUMP PUMP-7	BLQG	22,24	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P DISCONNECT.
ESP-8 ELEV SUMP PUMP-8	BLQG	21,23	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P DISCONNECT.
ESP-DW-1 ELEV SUMP PUMP-1	BLQG	5,7	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P DISCONNECT.
ESP-DW-2 ELEV SUMP PUMP-2	BLQG	6,8	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P DISCONNECT.
ESP-DW-3 ELEV SUMP PUMP-DW-3	BLQG	18,20	208 V	1840 VA	(2#12+#12G) 3/4"C	20 A	2	PROVIDE 30A 2P DISCONNECT.
ESP-DW-4 ELEV SUMP PUMP-4	BLQG	17,

A-SWGR

Location: A-SWGR 0B15E
Supply From: A-T-UTIL
Mounting: Surface
Enclosure: Type 1
Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL
AIC Rating: 50,000
Mains Type: MCB
Mains Rating: 3000 A
MCB Rating: 3000 A
Notes: PROVIDE 100% RATED MAIN CIRCUIT BREAKER WITH AN INSTANTANEOUS SETTING THAT OVERRIDES THE 42,000A.

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	RH1	3	800 A	800 A	412498 VA	
2	AH3A	3	1000 A	1000 A	565694 VA	
3	AHGA	3	1200 A	1200 A	799591 VA	
4	BHGA	3	600 A	600 A	388429 VA	
5	BHGC	3	800 A	800 A	477729 VA	
6	ACW AUTO-CART WASHER 0B09	3	400 A	125 A	63999 VA	
7	SPACE - 3 POLE	--	--	--	0 VA	--
8	SPACE - 3 POLE	--	--	--	0 VA	--
9	SPACE - 3 POLE	--	--	--	0 VA	--
10	SPACE - 3 POLE	--	--	--	0 VA	--
11	SPACE - 3 POLE	--	--	--	0 VA	--
12	SPACE - 3 POLE	--	--	--	0 VA	--
13						
14						
15						
				Total Conn. Load:	2847991 VA	
				Total Amps:	3426 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Elevator	45358 VA	100.00%	45358 VA		
Equipment	953938 VA	100.00%	953938 VA	**Total Conn. Load:**	2847991 VA
Heating	1288 VA	100.00%	1288 VA	**Total Est. Demand:**	2480817 VA
Lighting	132258 VA	125.00%	165323 VA	**Total Conn.:**	3426 A
Motor	787118 VA	101.82%	801460 VA	**Total Est. Demand:**	2984 A
Other	0 VA	0.00%	0 VA		
Power	1000 VA	100.00%	1000 VA		
Receptacle	697202 VA	50.72%	353601 VA		
Spare	27030 VA	100.00%	27030 VA		
Appliance	202798 VA	65.00%	131819 VA		

Notes:

ALGA

Location: ELECTRICAL 0B01E
Supply From: T-ALGA
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:
Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL
AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	1	900					20 A	R-CLEAN PREP. 0B23	2	
	3	SPARE	20 A			0	1040			20 A	R-DECONTAMINATION 0B08	4	
	5	EF-1B07	20 A					506	540	20 A	R-ROOM 0B10, 0B12	6	
	7	R-CLEAN PREP. 0B23	20 A	680	0					20 A	SPARE	8	
	9	R-ROOM 0B25, 0B21	20 A			720	720			20 A	R-CLEAN PREP. 0B23	10	
	11	ENDO REPROCESSOR CLEAN...	20 A					1000	1920	20 A	SMALL STERILIZER CLEAN PRE...	12	
	13	R-CLEAN SCOPES 0B05R	20 A	1800	790					15 A	EF-1B08	14	
	15	UC-2 ULTRASONIC CLEANER-2 0B08	15 A			645	790					16	
	17							645	720	20 A	R-STERILE/NON-STERILE-1....	18	
	19	R-CLEAN REC'V 0B28	20 A	720	721							20	
	21	R-ROOM 0B08, 0B05	20 A			720	721			20 A	R/O SYSTEM WATER 0B14	22	
	23	LARGE STERILIZER CLEAN PREP. 0B23	30 A					2882	721			24	
	25			2882	0					20 A	SPARE	26	
	27					2882	0			20 A	SPARE	28	
	29	WATER SAVER CHILLER SS-2...	20 A					1440	0	20 A	SPARE	30	
	31	SPARE	20 A	0	3000							32	
	33	SPARE	20 A			0	3000			35 A	STEAM GUN MAN. WASH 0B12	34	
	35	SPARE	20 A					0	3000			36	
	37	SPARE	20 A	0	5764							38	
	39	SPARE	20 A			0	5764			60 A	WD-2 WASHER/DISINFECTOR-2 0B08	40	
	41	SPARE	20 A					0	5764			42	
	43	SPARE	20 A	0	0					20 A	SPARE	44	
	45	SPARE	20 A			0	0			20 A	SPARE	46	
	47	SPARE	20 A					0	0	20 A	SPARE	48	
	49	SPARE	20 A	0	0					20 A	SPARE	50	
	51	SPARE	20 A			0	0			20 A	SPARE	52	
	53	SPARE	20 A					0	0	20 A	SPARE	54	
	55	SPARE	20 A	0	0					20 A	SPARE	56	
	57	SPARE	20 A			0	0			20 A	SPACE	58	--
--	59	SPACE	--					0	0	--	SPACE	60	--
--	61	SPACE	--	0	0					--	SPACE	62	--
--	63	SPACE	--			0	0			--	SPACE	64	--
--	65	SPACE	--					0	0	--	SPACE	66	--
--	67	SPACE	--	0	0					--	SPACE	68	--
--	69	SPACE	--			0	0			--	SPACE	70	--
--	71	SPACE	--					0	0	--	SPACE	72	--
--	73	SPACE	--	0	0					--	SPACE	74	--
--	75	SPACE	--			0	0			--	SPACE	76	--
--	77	SPACE	--					0	0	--	SPACE	78	--
--	79	SPACE	--	0	0					--	SPACE	80	--
--	81	SPACE	--			0	0			--	SPACE	82	--
--	83	SPACE	--					0	0	--	SPACE	84	--
			Total Load:	17258 VA		17002 VA		19138 VA					
			Total Amps:	144 A		142 A		160 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	8560 VA	100.00%	8560 VA	**Total Conn. Load:**	53398 VA
Motor	2086 VA	118.94%	2481 VA	**Total Est. Demand:**	53793 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	148 A
Equipment	42752 VA	100.00%	42752 VA	**Total Est. Demand:**	149 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALGB

Location: ELECTRICAL 0B01E
Supply From: T-ALGB
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:
Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL
AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	2	180					20 A	APPLIANCE STAFF LOUNGE 0B31	2	
	3	CUH-1 CABINET UNIT HEATER...	20 A			64	180			20 A	R-ROOM 0CCOR01-1, 0B47-1	4	
	5	L-MECHANICAL-6 0B45-6	20 A					148	360	20 A	R-ELECTRICAL 0B15	6	
	7	R-STAFF LOUNGE 0B31	20 A	466	740					20 A	R-CONF/WORK 0B18	8	
	9	VAV XFMR CP 0BCOR01	20 A			500	540			20 A	R-ELECTRICAL 0B01E	10	
	11	WH-1 WATER HEATER-1...	20 A					1080	1080	20 A	R-ROOM 0B35	12	
	13	R-IT OFFICE 0B36	20 A	1040	1200					20 A	MICROWAVE STAFF LOUNGE...	14	
	15	R-ROOM 0B29, 0BCOR01	20 A			1080	1260			20 A	R-ROOM 0B07, 0BCOR01,...	16	
	17	COFFEE STAFF LOUNGE 0B31	20 A					1500	960	20 A	R-TECH-1 0B19-1	18	
	19	R-MEDICAL GAS-1 0B46-1	20 A	720	720					20 A	R-MEDICAL GAS-1 0B46-1	20	
	21	R-OFFICE SUPV. 0B17	20 A			360	720			20 A	R-MEDICAL GAS-1 0B46-1	22	
	23	R-MEDICAL GAS-1 0B46-1	20 A					720	720	20 A	R-MEDICAL GAS-1 0B46-1	24	
	25	R-CONF/WORK 0B18	20 A	720	5167							26	
	27	R-MEDICAL GAS-1 0B46-1	20 A			720	5167			60 A	PUMP-FOUNTAIN-1	28	
	29	L-AHU-1 120V POWER 0B44	20 A					250	5167			30	
	31	L-AHU-2 120V POWER 0B44	20 A	250	250					20 A	L-AHU-3 120V POWER 0B44	32	
	33	R-BUILDING MANAGEMENT 0B16	20 A			1080	0			20 A	SPARE	34	
	35	R-OFFICE SUPV. 0B17	20 A					600	0	20 A	SPARE	36	
	37	H-2 HUMIDIFIER FOR AHU-2	20 A	600	0					20 A	SPARE	38	
	39	H-1 HUMIDIFIER FOR AHU-1	20 A			600	0			20 A	SPARE	40	
	41	H-3 HUMIDIFIER FOR AHU-3	20 A					600	0	20 A	SPARE	42	
	43	DHWP-1 DOMESTIC HOT WATE...	20 A	506	0					20 A	SPARE	44	
	45	SPARE	20 A			0	0			20 A	SPARE	46	
	47	SPARE	20 A					0	0	20 A	SPARE	48	
	49	SPARE	20 A	0	0					20 A	SPARE	50	
	51	SPARE	20 A			0	0			20 A	SPARE	52	
	53	SPARE	20 A					0	0	20 A	SPARE	54	
	55	SPARE	20 A	0	0					20 A	SPARE	56	
--	57	SPACE	--			0	0			--	SPACE	58	--
--	59	SPACE	--					0	0	--	SPACE	60	--
--	61	SPACE	--	0	0					--	SPACE	62	--
--	63	SPACE	--			0	0			--	SPACE	64	--
--	65	SPACE	--					0	0	--	SPACE	66	--
--	67	SPACE	--	0	0					--	SPACE	68	--
--	69	SPACE	--			0	0			--	SPACE	70	--
--	71	SPACE	--					0	0	--	SPACE	72	--
			Total Load:	12560 VA		12271 VA		13185 VA					
			Total Amps:	105 A		102 A		110 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	898 VA	125.00%	1123 VA		
Receptacle	14586 VA	84.28%	12293 VA	**Total Conn. Load:**	38016 VA
Motor	16006 VA	124.21%	19881 VA	**Total Est. Demand:**	39534 VA
Appliance	2880 VA	90.00%	2592 VA	**Total Conn.:**	106 A
Equipment	3582 VA	100.00%	3582 VA	**Total Est. Demand:**	110 A
Heating	64 VA	100.00%	64 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AHGA

Location: ELECTRICAL 0B01E
Supply From: A-SWGR
Mounting:
Enclosure:
Legend: L = LIGHTING, R = RECEPTACLE
Notes:
Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL
AIC Rating: 42,000
Mains Type: MLO
Bus Rating: 1200 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			17258	0					--	SPACE	2	--
	3	T-ALGA	125 A			17002	0			--	SPACE	4	--
	5							19138	12560			6	
--	7	SPACE	--	0	12271					125 A	T-ALGB	8	
	9					28925	13185					10	
	11	TAP-AH1	200 A					29230	0	--	SPACE	12	--
	13			28670	19986							14	
--	15	SPACE	--			0	19844			125 A	T-AL1B	16	
	17							20177	19890			18	
	19	T-AL1A	125 A	20835	37827							20	
	21					19865	36795			175 A	T-AL2A	22	
	23							24701	38593			24	
	25	T-AL2B	175 A	24267	0					--	SPACE	26	--
	27					23907	50691					28	
--	29	SPACE	--					0	53062	225 A	T-KL1	30	
	31			57723	49853							32	
	33	AHGB	400 A			55244	0			--	SPACE	34	--
	35							55240	0	--	SPACE	36	--
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
--	43	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	44	--
--	45	-	--			0	0			--	-	46	--
--	47	-	--					0	0	--	-	48	--
--	49	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	50	--
--	51	-	--			0	0			--	-	52	--
--	53	-	--					0	0	--	-	54	--
			Total Load:	268689 VA		265457 VA		272591 VA					
			Total Amps:	972 A		958 A		986 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	46377 VA	125.00%	57971 VA		
Receptacle	209524 VA	52.39%	109762 VA	**Total Conn. Load:**	865734 VA
Motor	98347 VA	109.72%	107908 VA	**Total Est. Demand:**	735446 VA
Appliance	147660 VA	65.00%	95979 VA	**Total Conn.:**	1041 A
Equipment	335263 VA	100.00%	335263 VA	**Total Est. Demand:**	885 A
Heating	1032 VA	100.00%	1032 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AHGB

Location: ELECTRICAL 0B01E
Supply From: AHGA
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:
Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL
AIC Rating: 42,000
Mains Type: MLO
Bus Rating: 400 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-FLAG POLE	20 A	108	0					--	SPACE	2	--
	3						0			--	SPACE	4	--
	5								0	--	SPACE	6	--
	7				2333					0 A	FUTURE SS-3 STEAM STERILIZER	8	
	9	SPARE	20 A			0	2333			0 A	3 POLE	10	
	11	SPARE	20 A					0	2333	0 A	-	12	
	13	L-MECHANICAL-2 0B45-2	20 A	1553	3056					20 A	L-MEDICAL GAS-1 0B46-1	14	
	15	L-ROOM 0BCOR01, 0BCOR04,...	20 A			693	0			20 A	SPARE	16	
	17							12747	0	20 A	SPARE	18	
	19	STEAM STERILIZER-2 0B22	60 A	12747	6677					0 A	FUTURE WD-3 WASHER DISIN.	20	
	21					12747	6677			0 A	E POLE	22	
	23							42493	6677	0 A	-	24	
	25	MOBILE MRI	20 A	42493	0					--	SPACE	26	--
	27					42493	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
--	31	SPACE - 3 POLE	--	0	0					--	SPACE 3 POLE	32	--
--	33	-	--			0	0			--	-	34	--
--	35	-	--					0	0	--	-	36	--
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
			Total Load:	68967 VA		64943 VA		64250 VA					
			Total Amps:	249 A		235 A		232 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	5999 VA	125.00%	7499 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	198748 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	200248 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	239 A
Equipment	165719 VA	100.00%	165719 VA	**Total Est. Demand:**	241 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

A-SWGR ALGA ALGB
AHGA AHGA

ISSUED FOR CONSTRUCTION

Revisions:	Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 CAVEO PROJECT: 13-2351 06/06/2014 ENGINEER RYAN J. ANN 8-1-2014

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Drawing Title: **AREA A NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Project Number: SFO# VA-101-10-RP-0081

Building Number

Location: Charlotte, NC

Drawing Number: **E603**

Date: 07/21/2014 | Checked: RJA | Drawn: BCE | Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

8/3/2014 3:07:29 PM

RH1

Location: ELECTRICAL 1B23E
Supply From: A-SWGR
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 35,000
Mains Type: MLO
Bus Rating: 800 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			9600	21580							2	
	3	T-RL1	75 A			9280	21580			100 A	R/F X-RAY DISC. 1A42	4	[1]
	5							5300	21580			6	
	7			8333	8333							8	
[1]	9	X-RAY DISC. 1A32	80 A			8333	8333			80 A	X-RAY DISC. 1A33	10	[1]
	11							8333	8333			12	
	13			8333	21580							14	
[1]	15	X-RAY DISC. 1A36	80 A			8333	21580			100 A	R/F X-RAY DISC. 1A41	16	[1]
	17							8333	21580			18	
	19			4000	6640							20	
[1]	21	NM SCAN DISC. 1B17	40 A			4000	6640			90 A	CT SCAN DISC. 1A23	22	[1]
	23							4000	6640			24	
	25			10000	6640							26	
[1]	27	PET SCAN DISC. 1B19	90 A			10000	6640			90 A	CT SCAN DISC. 1A25	28	[1]
	29							10000	6640			30	
	31			17000	17000							32	
[1]	33	MRI SCAN DISC. 1A65	80 A			17000	17000			80 A	MRI SCAN DISC. 1A67	34	[1]
	35							17000	17000			36	
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
--	43	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	44	--
--	45	-	--			0	0			--	-	46	--
--	47	-	--					0	0	--	-	48	--
--	49	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	50	--
--	51	-	--			0	0			--	-	52	--
--	53	-	--					0	0	--	-	54	--
			Total Load:	139039 VA		138719 VA		134739 VA					
			Total Amps:	504 A		503 A		486 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	22140 VA	72.58%	16070 VA	**Total Conn. Load:**	412498 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	406428 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	496 A
Equipment	390358 VA	100.00%	390358 VA	**Total Est. Demand:**	489 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:
1. PROVIDE SHUNT TRIP CIRCUIT BREAKER.

AH1

Location: ELECTRICAL 1B23E
Supply From: TAP-AH1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 35,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1			0	0					20 A	SPARE	2
3	CT SCAN UPS, 277 V/480 V, THREE PHASE, 4 WIRES, WYE	20 A			0	0			20 A	SPARE	4
5							0	0	20 A	SPARE	6
7	L-CORRIDOR 1ACOR14	20 A	2387	2949					20 A	L-SYSTEM COMPONENT 1A60	8
9	L-SCAN, CT 1A23	20 A			3206	3300			20 A	L-SOILED UTILITY 1B27	10
11	L-SOILED UTILITY 1B27	20 A					3320	1561	20 A	L-HOLDING, CT 1A21	12
13	SPARE	20 A	0	0					20 A	SPARE	14
15	SPARE	20 A			0	0			20 A	SPARE	16
17	SPARE	20 A					0	0	20 A	SPARE	18
		Total Load:	5336 VA		6505 VA		4880 VA				
		Total Amps:	20 A		24 A		18 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	16931 VA	125.00%	21164 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	16931 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	21164 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	20 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	25 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AL1A

Location: ELECTRICAL 1B23E
Supply From: T-AL1A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	7	100					20 A	L-X-RAY VIEWING 1A45	2	
	3	L-CORRIDOR 1BCOR06	20 A			50	125			20 A	X-RAY ROOM WARNING LIGHTS...	4	
	5	CUH CABINET UNIT HEATER...	20 A					64	300	20 A	TABLE GENERAL PURPOSE 1A36	6	
	7	L-MRI SCAN 1A67	20 A	404	466					20 A	R-STAFF LOUNGE 1B29	8	
	9	BED STRESS ECHO/ TEE 1B37	20 A			420	600			20 A	TABLES R/F 1A41	10	
	11	L-MRI SCAN 1A65	20 A					422	600	20 A	TABLES ROOM 1A32, 0B18	12	
	13	R-ROOM 1B56, 1B63	20 A	680	780					20 A	R-ROOM 1A61, 1A60	14	
	15	R-CONFERENCE 1A53	20 A			740	780			20 A	R-SUPERVISOR 1A49	16	
	17	R-STRESS TEST 1B38	20 A					760	800	20 A	ULTRASOUND STRESS ECHO/...	18	
	19	R-ROOM 1B57, 1B58	20 A	860	960					20 A	R-CH. RADIOLOGIST 1A48	20	
	21	R-STRESS TEST 1B38	20 A			860	1040			20 A	R-PHYS. VIEW. 1A52	22	
	23	R-EKG/ HOLTER WORKROOM...	20 A					900	1080	20 A	R-BY DOOR 1A44-49	24	
	25	R-ROOM 1A38, 1A39, 1A59	20 A	720	1440					20 A	TABLE EXAM 1B52	26	
	27	MICROWAVE STAFF LOUNGE...	20 A			1200	1560			20 A	R-VIEWING 1A44	28	
	29	R-MED 1A18	20 A					1140	1260	20 A	R-ROOM 1ACOR06, 1ACOR01,...	30	
	31	COFFEE STAFF LOUNGE 1B29	20 A	1500	960					15 A	TREADMILL STRESS ECHO/ TEE 1B37	32	
	33	FUTURE SITE SMOKING SHELTER	20 A			1920	960					34	
	35	FUTURE SITE SMOKING SHELTER	20 A					1920	960	15 A	TREADMILL STRESS TEST 1B38	36	
	37	R-ROOM 1B55, 1B64, 1B65, 1B52	20 A	1720	960							38	
	39	R-ROOM 1B55, 1B64, 1B65, 1B52	20 A			1400	180			20 A	MOBILE THYROID 1B41	40	
	41	R-ROOM 1B64, 1B65, 1B52	20 A					1040	180	20 A	UPS STRESS ECHO/ TEE 1B37	42	
	43	COFFEE STAFF LOUNGE 1B29	20 A	180	360					20 A	R-EKG/ HOLTER WORKROOM...	44	
	45	R-EXTERIOR - NORTH EXT - N	20 A			360	540			20 A	R-READ RM, ECHO 1B59	46	
	47	R-ROOM 1B38, 1B37	20 A					360	540	20 A	R-SUB WAIT 1B42	48	
	49	R-MRI EQ. STOR. 1A66	20 A	540	540					20 A	FRIDGE STAFF LOUNGE 1B29	50	
	51	R-CLEAN UTILITY 1B25	20 A			540	720			20 A	R-STRESS ECHO/ TEE 1B37	52	
	53	R-CONTROL, PET 1B18	20 A					540	720	20 A	R-THYROID 1B41	54	
	55	R-STAFF WORK 1B56	20 A	720	720					20 A	R-HOLDING, CT 1A22	56	
	57	R-PHYS. VIEW. 1A52	20 A			720	720			20 A	R-ELECTRICAL 1B23E	58	
	59	R-STAFF WORK 1B56	20 A					720	720	20 A	R-HOLDING, CT 1A21	60	
	61	R-CONFERENCE 1A53	20 A	720	900					20 A	R-ROOM 1B25, 1B27, 1B31, 1B34	62	
	63	R-ROOM 1B25, 1B27, 1B31, 1B34...	20 A			900	960			20 A	R-ROOM 1A64, 1A63	64	
	65	R-ROOM 1B57, 1B58	20 A					900	960	20 A	SHREDDER CH. RADIOLOGIST...	66	
	67	R-MED 1B44	20 A	960	1440					20 A	TABLE EXAM 1B55	68	
	69	TABLE EXAM 1B64	20 A			1440	1560			20 A	R-VIEWING 1A46	70	
	71	TABLE EXAM 1B65	20 A					1440	1560	20 A	R-VIEWING 1A47	72	
	73	R-VIEWING 1A45	20 A	1560	0					20 A	SPARE	74	
	75	SPARE	20 A			0	540			20 A	R-SUB-WAITING 1A59	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
	103	SPARE	20 A	0	0					20 A	SPARE	104	
	105	SPARE	20 A			0	0			20 A	SPARE	106	
--	107	SPACE	--					0	0	--	SPACE	108	--
--	109	SPACE	--	0	0					--	SPACE	110	--
--	111	SPACE	--			0	0			--	SPACE	112	--
--	113	SPACE	--					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE	--	0	0					--	SPACE	122	--
--	123	SPACE	--			0	0			--	SPACE	124	--
--	125	SPACE	--					0	0	--	SPACE	126	--
			Total Load:	20197 VA		20835 VA		19886 VA					
			Total Amps:	169 A		174 A		166 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	1101 VA	125.00%	1376 VA		
Receptacle	39966 VA	62.51%	24983 VA	**Total Conn. Load:**	60918 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	45526 VA
Appliance	3420 VA	80.00%	2736 VA	**Total Conn.:**	169 A
Equipment	16366 VA	100.00%	16366 VA	**Total Est. Demand:**	126 A
Heating	64 VA	100.00%	64 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AL1B

Location: ELECTRICAL 1B23E
Supply From: T-AL1B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	6	230					20 A	CT SCAN WARNING LIGHTS AN...	2	
	3	CUH-1 CABINET UNIT HEATER 2...	20 A			64	300			20 A	JUKE BOX STO. DATA EQ. 1B16	4	
	5	X-RAY ROOM WARNING LIGHTS...	20 A					50	240	20 A	W/C STO 1A04A	6	
	7	KIOSK CORRIDOR 1ACOR05	20 A	300	400					20 A	KIOSK & TV WAITING 1B05	8	
	9	R-CONTROL, CT 1A24	20 A			360	540			20 A	R-MONITORS ROOM 1B53, 1B45	10	
	11	R-CONTROL, CT 1A24	20 A					360	540	20 A	R-CONFERENCE 1B49	12	
	13	R-ORG. WORK STA 1B73	20 A	600	740					20 A	R-CONFERENCE 1B49	14	
	15	R-DEXA 1A27	20 A			720	820			20 A	R-ROOM 1ACOR05, 1A01	16	
	17	R-A/B INDEX 1A09	20 A					720	800	20 A	R-U/S 1 1A14	18	
	19	R-ROOM 1A19	20 A	1380	1500					20 A	COPIER COPY RM 1A05	20	
	21	R-RECEPTION 1A02	20 A			1260	1260			20 A	R-ROOM 1ACOR08, 1ACOR01,...	22	
	23	R-VOL SERIVCE 1B76	20 A					840	1440	20 A	TABLE HOLTER MONITOR 1B51	24	
	25	PLUGMOLD HOLTER MONITOR...	20 A	1620	180					20 A	R-ROOM 1B52, 1B51	26	
	27	COPIER COPY RM 1B07	20 A			1500	180			20 A	UPS ECHO 1B54	28	
	29	BONE DENSITY SCANNER 1A27	20 A					1800	180	20 A	UPS STO. DATA EQ. 1B16	30	
	31	R-OFFICE 1A69	20 A	360	720					20 A	R-U/S 1 1A14	32	
	33	R-OFFICE 1A69	20 A			600	720			20 A	R-U/S PROCEDURE 1A13	34	
	35	R-ORG. WORK STA 1B78	20 A					360	720	20 A	R-U/S W/ PATH 1A08	36	
	37	R-TECH 1A11	20 A	720	720					20 A	R-STAFF WORK AREA 1A29	38	
	39	R-TELCOMM 1B01T	20 A			720	720			20 A	R-STAFF WORK AREA 1A29	40	
	41	R-U/S 1 1A12	20 A					720	900	20 A	R-SUB WAIT, HOT 1B11	42	
	43	R-INTERV RM 1B50	20 A	720	800					20 A	ULTRASOUND ECHO 1B54	44	
	45	R-ROOM 1A31, 1A28	20 A			720	800			20 A	ULTRASOUND U/S 1 1A12	46	
	47	R-SIGN-IN 1B79	20 A					720	800	20 A	ULTRASOUND U/S W/ PATH 1A08	48	
	49	ULTRASOUND U/S 1 1A16	20 A	800	860					20 A	R-CONTROL, CT 1A24	50	
	51	ULTRASOUND U/S PROCEDURE...	20 A			800	860			20 A	R-STAFF WORK AREA 1A29	52	
	53	ULTRASOUND A/B INDEX 1A09	20 A					800	860	20 A	R-TECH 1A11	54	
	55	R-ROOM 1BCOR02, 1BCOR05	20 A	900	720					20 A	R-RADIO PHARM 1B12	56	
	57	R-SUB-WAITING, U/S 1A26	20 A			900	900			20 A	R-ROOM 1ACOR02, 1B05	58	
	59	R-U/S 1 1A16	20 A					900	900	20 A	R-ROOM 1B77, 1B76	60	
	61	R-EKG TESTING 1B45	20 A	900	960					20 A	SHREDDER COPY RM 1A05	62	
	63	R-EKG TESTING 1B53	20 A			900	960			20 A	SHREDDER RECEPTION 1A02	64	
	65	R-HOLTER MONITOR 1B51	20 A					1040	960	20 A	SHREDDER RECEPTION 1B06	66	
	67	R-UPTAKE 1B14	20 A	1080	1080					20 A	R-RECEPTION 1B06	68	
	69	R-UPTAKE 1B15	20 A			1080	1080			20 A	R-RECEPTION 1B06	70	
	71	R-EKG/ HOLTER WORKROOM...	20 A					1080	1080	20 A	R-ROOM 1B16, 1BCOR14,...	72	
	73	R-ECHO 1B54	20 A	1080	250					20 A	DRINKING FOUNTAIN CORRIDO...	74	
	75	R-PATIENT DOSE-POST 1B13	20 A			1080	0			20 A	SPARE	76	
	77	R-RECEPTION 1A02	20 A					1080	0	20 A	SPARE	78	
	79	R-RADIO PHARM 1B12	20 A	360	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
	103	SPARE	20 A	0	0					20 A	SPARE	104	
	105	SPARE	20 A			0	0			20 A	SPARE	106	
	107	SPARE	20 A					0	0	20 A	SPARE	108	
	109	SPARE	20 A	0	0					20 A	SPARE	110	
--	111	SPACE	--			0	0			--	SPACE	112	--
--	113	SPACE	--					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE	--	0	0					--	SPACE	122	--
--	123	SPACE	--			0	0			--	SPACE	124	--
--	125	SPACE	--					0	0	--	SPACE	126	--
			Total Load:	19986 VA		19844 VA		19890 VA					
			Total Amps:	167 A		165 A		166 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	100 VA	125.00%	125 VA		
Receptacle	46100 VA	60.85%	28050 VA	**Total Conn. Load:**	59720 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	41695 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	166 A
Equipment	13456 VA	100.00%	13456 VA	**Total Est. Demand:**	116 A
Heating	64 VA	100.00%	64 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

RH1 AH1 ALGB
AL1A AL1B

ISSUED FOR CONSTRUCTION

Revisions:		Date
1	ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ANN 8-12-2014

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Drawing Title:
AREA A NORMAL PANEL SCHEDULES

Approved: Project Director

Project Title
VA Charlotte
Health Care Center

Location
Charlotte, NC

Date 07/21/2014 | Checked RJA | Drawn BCE

Project Number
SFO# VA-101-10-RP-0081

Building Number

Drawing Number
E604
Dwg. of

U.S. Department of Veterans Affairs

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RL1

Location: ELECTRICAL 1B23E
Supply From: T-RL1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	R-CONTROL, CT 1A24	20 A	720	720					20 A	R-R/F 1A41	2
3	R-SCAN, CT 1A23 & LIFT	20 A			580	720			20 A	R-SCAN, CT 1A23	4
5	R-R/F 1A42	20 A					720	500	20 A	LCD MONITORS ON TRACK 1A4...	6
7	R-GENERAL PURPOSE 1A33	20 A	900	900					20 A	R-GENERAL PURPOSE 1A32	8
9	R-GENERAL PURPOSE 1A36	20 A			900	900			20 A	R-MRI SCAN 1A67	10
11	R-ROOM 1A42, 1A41	20 A					720	900	20 A	R-MRI SCAN 1A65	12
13	R-SCAN, CT 1A25	20 A	1080	600					20 A	INJECTOR SCAN, CT 1A25	14
15	LASER IMAGER CONTROL, CT...	20 A			1080	300			20 A	INJECTOR MRI SCAN 1A65	16
17	R-CONTROL, PET 1B18	20 A					1080	300	20 A	INJECTOR MRI SCAN 1A67	18
19	LASER IMAGER CONTROL 1A63	20 A	1080	720					20 A	R-CONTROL, CT 1A24	20
21	LASER IMAGER CONTROL 1A61	20 A			1080	0			20 A	SPARE	22
23	SPARE	20 A					0	0	20 A	SPARE	24
25	SPARE	20 A	0	0					20 A	SPARE	26
27	R-NM SCAN 1B17	20 A			360	0			20 A	SPARE	28
29	SPARE	20 A					0	0	20 A	SPARE	30
31	SPARE	20 A	0	0					20 A	SPARE	32
33	R-ROOM 1A32, 1A33, 1A36	20 A			1080	360			20 A	R-CONTROL 1A63	34
35	R-CONTROL 1A61	20 A					360	0	20 A	SPARE	36
37	SPARE	20 A	0	0					20 A	SPARE	38
39	SPARE	20 A			0	0			20 A	SPARE	40
41	SPARE	20 A					0	360	20 A	R-CONTROL, PET 1B18	42
43	R-CONTROL, PET 1B18	20 A	360	1260					20 A	R-SCAN, PET 1B19	44
45	INJECTOR PT SCAN	20 A			300	1080			20 A	R-NM SCAN 1B17	46
47	UPS NM SCAN 1B17	20 A					180	180	20 A	UPS NM SCAN 1B17	48
49	R-IMAGE PROCESSING 1B46	20 A	900	360					20 A	R-IMAGE PROCESSING 1B46	50
51	R-IMAGE PROCESSING 1B46	20 A			540	0			20 A	SPARE	52
53	SPARE	20 A					0	0	20 A	SPARE	54
55	SPARE	20 A	0	0					20 A	SPARE	56
57	SPARE	20 A			0	0			20 A	SPARE	58
59	SPARE	20 A					0	0	20 A	SPARE	60
61	SPARE	20 A	0	0					20 A	SPARE	62
63	SPARE	20 A			0	0			20 A	SPARE	64
65	SPARE	20 A					0	0	20 A	SPARE	66
67	SPARE	20 A	0	0					20 A	SPARE	68
-- 69	SPACE	--			0	0			--	SPACE	70 --
-- 71	SPACE	--					0	0	--	SPACE	72 --
-- 73	SPACE	--	0	0					--	SPACE	74 --
-- 75	SPACE	--			0	0			--	SPACE	76 --
-- 77	SPACE	--					0	0	--	SPACE	78 --
-- 79	SPACE	--	0	0					--	SPACE	80 --
-- 81	SPACE	--			0	0			--	SPACE	82 --
-- 83	SPACE	--					0	0	--	SPACE	84 --
		Total Load:	9600 VA		9280 VA		5300 VA				
		Total Amps:	85 A		82 A		44 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	22140 VA	72.58%	16070 VA	**Total Conn. Load:**	24180 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	18110 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	67 A
Equipment	2040 VA	100.00%	2040 VA	**Total Est. Demand:**	50 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AH2

Location: ELECTRICAL 2B18
Supply From: TAP-AH1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 35,000
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	CH-MRI-1A65	60 A	12748	12748					60 A	CH-MRI-1A67	2
3					12748	12748					4
5							12748	12748			6
7	L-CORRIDOR 2ACOR06	20 A	2400	3581					20 A	L-LOCKERS 2A34	8
9	L-TREATMENT, KT 2A28	20 A			3484	3263			20 A	L-ELECTRICAL 2B18	10
11	L-GROUP 2B02	20 A					3693	3393	20 A	L-TEAMLET 2B67C	12
13	SPARE	20 A	0	0					20 A	SPARE	14
15	SPARE	20 A			0	0			20 A	SPARE	16
17	SPARE	20 A					0	0	20 A	SPARE	18
19	EF-2A02	15 A	558	0					20 A	SPARE	20
21					558	0			20 A	SPARE	22
23							558	0	20 A	SPARE	24
-- 25	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	26 --
-- 27	-	--			0	0			--	-	28 --
-- 29	-	--					0	0	--	-	30 --
		Total Load:	32035 VA		32801 VA		33140 VA				
		Total Amps:	116 A		119 A		120 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	20148 VA	125.00%	25185 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	98309 VA
Motor	78161 VA	112.23%	87722 VA	**Total Est. Demand:**	112907 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	118 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	136 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AL2A

Location: ELECTRICAL 2B18
Supply From: T-AL2A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	SINK SENSORS	20 A	0	360					20 A	R-LEAD OFFICE 2A45	2
3	SINK SENSORS	20 A			9	466			20 A	R-ROOM 2A36, 2A34	4
5	AUTODOOR	20 A					300	466	20 A	R-STAFF COMMON 2B35	6
7	T-MONITORS & LIFT 2A27	20 A	580	680					20 A	R-BULLPEN 2A44	8
9	R-LEAD OFFICE 2A45	20 A			600	720			20 A	R-BULLPEN 2A44	10
11	EF-2A03	20 A					667	720	20 A	R-BULLPEN 2A44	12
13	R-OFFICE, PROG SUPPORT 2A35	20 A	860	960					20 A	R-OFFICE, SUPV 2A33	14
15	R-SCI TREATMENT 2A27	20 A			860	1000			20 A	R-PROS. CLERK 2A47	16
17	R-MAIL OUT 2A50	20 A					900	1000	20 A	VAV XFMR CP 2ACOR07,...	18
19	R-FITTING 2A46	20 A	1040	1127					20 A	EF-2A04	20
21	R-TREATMENT, KT 2A28	20 A			1080	1200			20 A	MICROWAVE STAFF COMMON...	22
23	R-STO, PROS / WORK 2A52	20 A					1040	1800	20 A	R-STO, OT 2A29	24
25	COFFEE STAFF COMMON 2B35	20 A	1500	1500					20 A	COFFEE STAFF LOUNGE 2A36	26
27	MICROWAVE STAFF LOUNGE...	20 A			1200	1440			20 A	R-OFFICE / EXAM 2B07	28
29	R-STO, PT 2A31	20 A					1800	1720	20 A	R-ROOM 2A53, 2A54, 2A55, 2A64	30
31	R-ROOM 2A62, 2A59, 2A63, 2A61	20 A	1400	1220					20 A	R-ROOM 2A53, 2A54, 2A55, 2A64	32
33	R-ROOM 2A62, 2A59, 2A63	20 A			1360	1220			20 A	R-ROOM 2A53, 2A54, 2A64	34
35	R-ROOM 2A62, 2A59, 2A63, 2A61	20 A					1400	1040	20 A	R-ROOM 2A65, 2A67	36
37	R-ROOM 2B10, 2B12	20 A	1040	1040					20 A	R-ROOM 2A66, 2A65	38
39	R-ROOM 2B10, 2B16	20 A			720	720			20 A	R-ROOM 2A66, 2A67	40
41	R-ROOM 2B12, 2B16	20 A					1360	1400	20 A	R-ROOM 2B31, 2B29	42
43	R-ROOM 2B30, 2B28	20 A	1040	1540					20 A	R-ROOM 2B31, 2B33, 2B34, 2B29	44
45	R-ROOM 2B28, 2B30	20 A			1040	1220			20 A	R-ROOM 2B31, 2B33, 2B34	46
47	R-ROOM 2B39, 2B30	20 A					1040	1040	20 A	R-ROOM 2B41, 2B43	48
49	R-ROOM 2B40, 2B42	20 A	1040	1040					20 A	R-ROOM 2B41, 2B32	50
51	R-ROOM 2B38, 2B42	20 A			1040	1040			20 A	R-ROOM 2B32, 2B43	52
53	R-ROOM 2B38, 2B40	20 A					1040	180	20 A	R-MED 2B48	54
55	APPLIANCE STAFF COMMON...	20 A	180	540					20 A	FRIDGE STAFF COMMON 2B35	56
57	R-MED 2B21	20 A			180	540			20 A	FRIDGE STAFF LOUNGE 2A36	58
59	R-ELECTRICAL 2B18	20 A					540	720	20 A	R-SCI TREATMENT 2A27	60
61	R-SCI NURSE 2A41	20 A	720	720					20 A	R-BULLPEN 2A44	62
63	R-SCI TREATMENT 2A27	20 A			720	720			20 A	R-CLEAN UTILITY 2B27	64
65	R-OFFICE, PROG SUPPORT 2A35	20 A					720	900	20 A	R-SOILED UTILITY 2B08	66
67	R-ROOM 2A51, 2B14, 2BCOR04,...	20 A	900	1200					20 A	R-STRESS TEST 1B38	68
69	R-ROOM 2B44, 2BCOR19	20 A			900	1200			20 A	R-STRESS TEST 1B38	70
71	R-STRESS TEST 1B38	20 A					1200	1200	20 A	R-IMAGE PROCESSING 1B46	72
73	R-IMAGE PROCESSING 1B46	20 A	1200	1440					20 A	TABLE POD EXAM 2A59	74
75	R-IMAGE PROCESSING 1B46	20 A			1200	1440			20 A	TABLE POD EXAM 2A62	76
77	TABLE POD EXAM 2A64	20 A					1440	1440	20 A	TABLE POD EXAM 2A55	78
79	TABLE POD EXAM 2A53	20 A	1440	1440					20 A	TABLE ORTHO 2A65	80
81	TABLE POD EXAM 2A54	20 A			1440	1440			20 A	TABLE ORTHO 2A66	82
83	TABLE PLAST. 2A67	20 A					1440	1440	20 A	TABLE ORTHO 2A63	84
85	TABLE GYN EXAM 2B43	20 A	1440	1440					20 A	TABLE EXAM 2B40	86
87	TABLE ORTHO 2A61	20 A			1440	1440			20 A	TABLE EXAM 2B41	88
89	TABLE EXAM 2B42	20 A					1440	1440	20 A	TABLE EXAM 2B39	90
91	TABLE EXAM 2B34	20 A	1440	1440					20 A	TABLE EXAM 2B31	92
93	TABLE EXAM 2B38	20 A			1440	1440			20 A	TABLE EXAM 2B32	94
95	TABLE EXAM 2B33	20 A					1440	1440	20 A	TABLE EXAM 2B30	96
97	TABLE EXAM 2B28	20 A	1440	1440					20 A	TABLE EXAM 2B10	98
99	TABLE EXAM 2B29	20 A			1440	1440			20 A	TABLE EXAM 2B12	100
101	TABLE EXAM 2B16	20 A					1440	1440	20 A	R-ROOM 2A42, 2B15, 2ACOR04,...	102
103	R-OFFICE / EXAM 2B11	20 A	1440	0					20 A	SPARE	104
105	R-PROS. CLERK 2A47	20 A			1440	0			20 A	SPARE	106
107	SPARE	20 A					0	0	20 A	SPARE	108
109	SPARE	20 A	0	0					20 A	SPARE	110
111	SPARE	20 A			0	0			20 A	SPARE	112
113	SPARE	20 A					0	0	20 A	SPARE	114
115	SPARE	20 A	0	0					20 A	SPARE	116
117	SPARE	20 A			0	0			20 A	SPARE	118
119	SPARE	20 A					0	0	20 A	SPARE	120
121	SPARE	20 A	0	0					20 A	SPARE	122
123	SPARE	20 A			0	0			20 A	SPARE	124
125	SPARE	20 A					0	0	20 A	SPARE	126
127	SPARE	20 A	0	0					20 A	SPARE	128
129	SPARE	20 A			0	0			20 A	SPARE	130
131	SPARE	20 A					0	0	20 A	SPARE	132
133	SPARE	20 A	0	0					20 A	SPARE	134
135	SPARE	20 A			0	0			20 A	SPARE	136
137	SPARE	20 A					0	0	20 A	SPARE	138
139	SPARE	20 A	0	0					20 A	SPARE	140
141	SPARE	20 A			0	0			20 A	SPARE	142
143	SPARE	20 A					0	0	20 A	SPARE	144
145	SPARE	20 A	0	0					20 A	SPARE	146
147	SPARE	20 A			0	0			20 A	SPARE	148
149	SPARE	20 A					0	0	20 A	SPARE	150
151	SPARE	20 A	0	0					20 A	SPARE	152
153	SPARE	20 A			0	0			20 A	SPARE	154
155	SPARE	20 A					0	0	20 A	SPARE	156
157	SPARE	20 A	0	0					20 A	SPARE	158
159	SPARE	20 A			0	0			20 A	SPARE	160
161	SPARE	20 A					0	0	20 A	SPARE	162
163	SPARE	20 A	0	0					20 A	SPARE	164
165	SPARE	20 A			0	0			20 A	SPARE	166
167	SPARE	20 A					0	0	20 A	SPARE	168
		Total Load:	37827 VA		36795 VA		38593 VA				
		Total Amps:	317 A		307 A		323 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	64212 VA	57.79%	37106 VA	**Total Conn. Load:**	113215 VA
Motor	2094 VA	113.46%	2376 VA	**Total Est. Demand:**	83997 VA
Appliance	6840 VA	65.00%	4446 VA	**Total Conn.:**	314 A
Equipment	40069 VA	100.00%	40069 VA	**Total Est. Demand:**	233 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AL2B

Location: ELECTRICAL 2B18
Supply From: T-AL2B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	SINK SENSORS	20 A	2	400					20 A	KIOSK & TV WAITING AREA 2B24	2
3	R-ADL EVAL. / TRAINING CTR....	20 A			180	0			20 A	SPARE	4
5	R-ORTHO 2A57	20 A					360	480	20 A	KIOSK & TV WAITING AREA 2A03	6
7	FRIDGE ADL EVAL. / TRAINING...	20 A	540	660					20 A	R-GROUP 2B51	8
9	R-TREATMENT, KT 2A28	20 A			540	780			20 A	ROOM 2A56, 2A11, 2A28,...	10
11	R-GROUP 2B02	20 A					660	780	20 A	ROOM 2B47, 2B24	12
13	DISHWASHER ADL EVAL. /...	20 A	852	680					20 A	R-ORTHO 2A57	14
15	R-EXERCISE BIKE	20 A			900	900			20 A	R-GROUP 2B02	16
17	R-EXAM/OFFICE 0D44	20 A					720	1080	20 A	R-ROOM 2A09	18
19	MICROWAVE ADL EVAL. /...	20 A	1200	1440					20 A	STAIR STEPPER-EXERCISE...	20
21	WASHER ADL EVAL. / TRAINING...	20 A			1200	1260			20 A	R-ROOM 5E59, 2B26	22
23								2280	20 A	PRIV TREAT, PT 2A25	24
25	TABLE ORTHO 2A57	20 A	1440	1500					20 A	COPIER COPY RM 2B26	26
27	FLUIDOTHERAPY 2A28	20 A			1560	1620			20 A	PLUGMOLD GROUP 2B02	28
29	OT COGN TEST 2B23	20 A					3480	540	20 A	R-TREATMENT, KT 2A28	30
31	PRIV TREAT, PT 2A24	20 A	2280	540					20 A	R-GROUP 2B51	32
33	PLUGMOLD GROUP 2B51	20 A			1620	540			20 A	R-ROOM 2A28, 2ACOR08	34
35	R-TELCOMM 2B01T	20 A					720	900	20 A	R-ROOM 2ACOR02, 2B24	36
37	R-ADL EVAL. / TRAINING CTR....	20 A	720	900					20 A	R-PROTH. PROGRAM 2A12	38
39	R-ROOM 2A03, 2A02	20 A			720	900			20 A	R-ROOM 2ACOR02, 2A03, 2A02,...	40
41	R-PRIV TREAT, RES 2A18	20 A					900	900	20 A	R-PRIV TREAT, PT 2A19	42
43	R-PRIV TREAT, PT 2A20	20 A	900	900					20 A	R-PRIV TREAT, OT 2A16	44
45	R-PRIV TREAT, PT 2A21	20 A			900	900			20 A	R-PRIV TREAT, PT 2A14R	46
47	SHREDDER RECEPTION 2B25	20 A					960	1080	20 A	R-ROOM 5E59, 2B26	48
49	SHREDDER COPY RM 2B26	20 A	960	1080					20 A	R-ROOM 2A09	50
51	SHREDDER RECEPTION 2A08	20 A			960	1080			20 A	R-ROOM 2B05, 2B49, 2BCOR08,...	52
53	TABLE PROTH. PROGRAM 2A12	20 A					1440	1440	20 A	TABLE PRIV TREAT, PT 2A24	54
55	TABLE PRIV TREAT, PT 2A25	20 A	1440	1440					20 A	TABLE PRIV TREAT, PT 2A20	56
57	TABLE PRIV TREAT, RES 2A18	20 A			1440	1440			20 A	TABLE PRIV TREAT, PT 2A21	58
59	TABLE PRIV TREAT, PT 2A19	20 A					1440	180	20 A	DRINKING FOUNTAIN WAITING...	60
61	TABLE PRIV TREAT, OT 2A16	20 A	1440	960					15 A	TREADMILL 2A26	62
63	TABLE PRIV TREAT, PT 2A14	20 A			1440	960					64
65	TREADMILL 2A26	15 A					960	1467	30 A	ELECTRIC DRYER 2A56	66
67			960	1467							68
69	TREADMILL 2A26	15 A			960	1467					70
71							960	180	20 A	DRINKING FOUNTAIN WAITING...	72
73	SPARE	20 A	0	0					20 A	SPARE	74
75	SPARE	20 A			0	0			20 A	SPARE	76
77	SPARE	20 A					0	0	20 A	SPARE	78
79	SPARE	20 A	0	0					20 A	SPARE	80
81	SPARE	20 A			0	0			20 A	SPARE	82
83	SPARE	20 A					0	0	20 A	SPARE	84
85	SPARE	20 A	0	0					20 A	SPARE	86
87	SPARE	20 A			0	0			20 A	SPARE	88
89	SPARE	20 A					0	0	20 A	SPARE	90
91	SPARE	20 A	0	0					20 A	SPARE	92
93	SPARE	20 A			0	0			20 A	SPARE	94
95	SPARE	20 A					0	0	20 A	SPARE	96
97	SPARE	20 A	0	0					20 A	SPARE	98
99	SPARE	20 A			0	0			20 A	SPARE	100
101	SPARE	20 A					0	0	20 A	SPARE	102
103	SPARE	20 A	0	0					20 A	SPARE	104
-- 105	SPACE	--			0	0			--	SPACE	106 --
-- 107	SPACE	--					0	0	--	SPACE	108 --
-- 109	SPACE	--	0	0					--	SPACE	110 --
-- 111	SPACE	--			0	0			--	SPACE	112 --
-- 113	SPACE	--					0	0	--	SPACE	114 --
-- 115	SPACE	--	0	0					--	SPACE	116 --
-- 117	SPACE	--			0	0			--	SPACE	118 --
-- 119	SPACE	--					0	0	--	SPACE	120 --
-- 121	SPACE	--	0	0					--	SPACE	122 --
-- 123	SPACE	--			0	0			--	SPACE	124 --
-- 125	SPACE	--					0	0	--	SPACE	126 --
		Total Load:	24701 VA		24267 VA		23907 VA				
		Total Amps:	206 A		203 A		199 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	32120 VA	65.57%	21060 VA	**Total Conn. Load:**	72875 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	59357 VA
Appliance	8193 VA	70.00%	5735 VA	**Total Conn.:**	202 A
Equipment	32562 VA	100.00%	32562 VA	**Total Est. Demand:**	165 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

RL1 AL2A AL2B
AH2

ISSUED FOR CONSTRUCTION

Revisions:		Date
1	ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ANN 8-12-2014

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Drawing Title: **AREA A NORMAL PANEL SCHEDULES**
Approved: Project Director
Project Title: VA Charlotte Health Care Center
Location: Charlotte, NC
Date: 07/21/2014 | Checked: RJA | Drawn: BCE
Project Number: SFO# VA-101-10-RP-0081
Building Number
Drawing Number: **E605**
Dwg. of

U.S. Department of Veterans Affairs

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8/3/2014 3:07:33 PM

AH3A

Location: ELECTRICAL 3B19E
Supply From: A-SWGR
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 35,000
Mains Type: MLO
Bus Rating: 1200 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			4600	0					--	SPACE	2	--
	3	T-AL5B	50 A			3727	0			--	SPACE	4	--
	5							4640	11594			6	
--	7	SPACE	--	0	9079					70 A	T-AL5A	8	
	9					11449	10365					10	
	11	T-AL3B	70 A					12046	21627			12	
	13			11600	20628					125 A	T-AL4B	14	
--	15	SPACE	--			0	20848					16	
--	17	SPACE	--					0	23854			18	
	19			22463	22920					175 A	T-AL4A	20	
	21	TAP-AH3B	225 A			24816	23951					22	
	23							23887	29196			24	
--	25	SPACE	--	0	28860					175 A	T-AL3A	26	
	27					68218	28506					28	
	29	AHP	400 A					67970	0	--	SPACE	30	--
	31			67387	0					--	SPACE - 3 POLE	32	--
--	33	SPACE	--			0	0			--	-	34	--
--	35	SPACE	--					0	0	--	-	36	--
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - 3POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
--	43	SPACE - 3 POLE	--	0	0					--	SPACE - 3POLE	44	--
--	45	-	--			0	0			--	-	46	--
--	47	-	--					0	0	--	-	48	--
--	49	SPACE - 3 POLE	--	0	0					--	SPACE	50	--
--	51	-	--			0	0			--	-	52	--
--	53	-	--					0	0	--	-	54	--
			Total Load:	187536 VA		191880 VA		194813 VA					
			Total Amps:	677 A		695 A		706 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	37241 VA	125.00%	46551 VA		
Receptacle	220772 VA	52.26%	115386 VA	**Total Conn. Load:**	597513 VA
Motor	201932 VA	105.82%	213684 VA	**Total Est. Demand:**	507330 VA
Appliance	16740 VA	65.00%	10881 VA	**Total Conn.:**	719 A
Equipment	75470 VA	100.00%	75470 VA	**Total Est. Demand:**	610 A
Heating	0 VA	0.00%	0 VA		
Elevator	45358 VA	100.00%	45358 VA		

Notes:

AH3B

Location: ELECTRICAL 3B19E
Supply From: TAP-AH3B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 30,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SPARE	20 A	0	3071					20 A	L-OFFICE 3A24	2	
	3	SPARE	20 A			0	3280			20 A	L-TOILET, STAFF 3A07R	4	
	5	L-OFFICE 3A34	20 A					1936	3536	20 A	L-CORRIDOR 3BCOR05	6	
	7	L-EXAM 3B39	20 A	1114	2310					20 A	L-ELEVATOR LOBBY 3B18	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
	11	SPARE	20 A					0	0	20 A	SPARE	12	
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	6495 VA		3280 VA		5472 VA					
			Total Amps:	25 A		12 A		21 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	15600 VA	125.00%	19500 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	15600 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	19500 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	19 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	23 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AL3A

Location: ELECTRICAL 3B19E
Supply From: T-AL3A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	10	360					20 A	R-OFFICE 3A26	2	
	3	R-MED 3B22	20 A			180	360			20 A	R-CLEAN UTILITY 3B28	4	
	5	AUTODOOR	20 A					300	900	20 A	R-CONFERENCE 3A38	6	
	7	EF-3A02	20 A	506	720					20 A	R-CONFERENCE 3A38	8	
	9	MICROWAVE STAFF COMMON...	20 A			1200	1500			20 A	COFFEE STAFF COMMON 3B36	10	
	11	VAV XFMR CP 3ACOR03,...	20 A					1000	1006	20 A	STAFF COMMON 3B36	12	
	13	R-ROOM 3B45, 3B38	20 A	1620	1400					20 A	R-ROOM 3B10, 3A41R, 3B12	14	
	15	R-ROOM 3B16, 3B18	20 A			1040	1720			20 A	R-ROOM 3B10, 3B12, 3B14	16	
	17	R-ROOM 3B17, 3B18	20 A					1040	1040	20 A	R-ROOM 3B10, 3A41R, 3B14	18	
	19	R-ROOM 3B17, 3B16	20 A	1040	1720					20 A	R-ROOM 3B35, 3B34, 3B32, 3B30	20	
	21	R-ROOM 3B40, 3B44	20 A			1040	1040			20 A	R-ROOM 3B35, 3B34, 3B32	22	
	23	R-ROOM 3B42, 3B40	20 A					1040	1400	20 A	R-ROOM 3B35, 3B34, 3B32, 3B30	24	
	25	R-ROOM 3B42, 3B44	20 A	1040	1040					20 A	R-ROOM 3B39, 3B43	26	
	27	R-OFFICE 3A34	20 A			600	1040			20 A	R-ROOM 3B41, 3B43	28	
	29	RECEPTACLE OFFICE 3A21	20 A					600	1040	20 A	R-ROOM 3B39, 3B41	30	
	31	R-OFFICE 3A33	20 A	600	600					20 A	R-OFFICE 3A30	32	
	33	R-OFFICE 3A31	20 A			600	600			20 A	R-OFFICE 3A28	34	
	35	R-OFFICE 3A32	20 A					600	600	20 A	R-OFFICE 3A29	36	
	37	R-OFFICE 3A27	20 A	600	600					20 A	R-OFFICE 3A24	38	
	39	R-OFFICE 3A25	20 A			600	600			20 A	R-OFFICE 3A22	40	
	41	R-OFFICE 3A26	20 A					600	600	20 A	R-OFFICE 3A23	42	
	43	R-OFFICE 3A20	20 A	600	600					20 A	R-OFFICE 3A17	44	
	45	R-OFFICE 3A18	20 A			600	600			20 A	R-OFFICE 3A15	46	
	47	R-OFFICE 3A19	20 A					600	600	20 A	R-OFFICE 3A16	48	
	49	R-OFFICE 3A14	20 A	600	720					20 A	R-OFFICE 3A34	50	
	51	R-ROOM 3ACOR04, 3BCOR01,...	20 A			720	720			20 A	R-OFFICE 3A30	52	
	53	R-ROOM 3B09, 3ACOR04,...	20 A					720	720	20 A	R-OFFICE 3A31	54	
	55	R-OFFICE 3A27	20 A	720	720					20 A	R-OFFICE 3A19	56	
	57	R-OFFICE 3A22	20 A			720	720			20 A	R-OFFICE 3A15	58	
	59	R-OFFICE 3A23	20 A					720	720	20 A	R-OFFICE 3A18	60	
	61	R-OFFICE 3A14	20 A	720	720					20 A	R-CONFERENCE 3A38	62	
	63	R-ELECTRICAL 3B19E	20 A			720	900			20 A	R-DICTATION 3B09	64	
	65	R-OFFICE / EXAM 3B33	20 A					720	900	20 A	R-ROOM 3A42, 3ACOR06,...	66	
	67	R-CONFERENCE 3A38	20 A	900	1200					20 A	R-TEAMLET 2B19B	68	
	69	R-TEAMLET 2B19B	20 A			1200	1200			20 A	R-TEAMLET 2B19A	70	
	71	R-TEAMLET 2B19C	20 A					1200	1200	20 A	R-TEAMLET 2B19A	72	
	73	R-TEAMLET 2B19A	20 A	1200	1440					20 A	TABLE MED 3B18	74	
	75	TABLE TEAMLET 3B16	20 A			1440	1440			20 A	TABLE EXAM 3B43	76	
	77	TABLE TOILET 3A41R	20 A					1440	1440	20 A	TABLE GYN EXAM 3B44	78	
	79	TABLE EXAM 3B42	20 A	1440	1440					20 A	TABLE EXAM 3B39	80	
	81	TABLE EXAM 3B40	20 A			1440	1440			20 A	TABLE EXAM 3B34	82	
	83	TABLE EXAM 3B41	20 A					1440	1440	20 A	TABLE EXAM 3B35	84	
	85	TABLE EXAM 3B32	20 A	1440	1440					20 A	TABLE EXAM 3B14	86	
	87	TABLE EXAM 3B17	20 A			1440	1440			20 A	TABLE EXAM 3B10	88	
	89	TABLE EXAM 3B30	20 A					1440	1440	20 A	TABLE EXAM 3B12	90	
	91	R-OFFICE / EXAM 3B29	20 A	1440	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
	103	SPARE	20 A	0	0					20 A	SPARE	104	
	105	SPARE	20 A			0	0			20 A	SPARE	106	
	107	SPARE	20 A					0	0	20 A	SPARE	108	
	109	SPARE	20 A	0	0					20 A	SPARE	110	
	111	SPARE	20 A			0	0			20 A	SPARE	112	
	113	SPARE	20 A					0	0	20 A	SPARE	114	
	115	SPARE	20 A	0	0					20 A	SPARE	116	
	117	SPARE	20 A			0	0			20 A	SPARE	118	
	119	SPARE	20 A					0	0	20 A	SPARE	120	
	121	SPARE	20 A	0	0					20 A	SPARE	122	
	123	SPARE	20 A			0	0			20 A	SPARE	124	
	125	SPARE	20 A					0	0	20 A	SPARE	126	
			Total Load:	29196 VA		28860 VA		28506 VA					
			Total Amps:	244 A		241 A		238 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	57026 VA	58.77%	33513 VA	**Total Conn. Load:**	86562 VA
Motor	806 VA	115.69%	933 VA	**Total Est. Demand:**	62852 VA
Appliance	3240 VA	90.00%	2916 VA	**Total Conn.:**	240 A
Equipment	25490 VA	100.00%	25490 VA	**Total Est. Demand:**	174 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AL3B

Location: ELECTRICAL 3B19E
Supply From: T-AL3B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 200 A
MCB Rating: 150 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	2	400					20 A	WAITING AREA 3B25	2	
	3	APPLIANCE STAFF COMMON...	20 A			180	466			20 A	R-STAFF COMMON 3A05	4	
	5	R-OFFICE 3A43	20 A					360	600	20 A	R-OFFICE 3A12	6	
	7	R-OFFICE 3A13	20 A	600	667					20 A	EF-3A01	8	
	9	R-GROUP 3B02	20 A			660	740			20 A	R-GROUP 3B51	10	
	11	R-GROUP 3B03	20 A					660	680	20 A	R-COPY RM 3A04	12	
	13	R-AD OFFICE 3A11	20 A	720	720					20 A	R-GROUP 3B51	14	
	15	R-ROOM 3ACOR05, 3A01	20 A			740	860			20 A	R-AD OFFICE 3A11	16	
	17	R-RECEPTION 3A08	20 A					900	1620	20 A	R-LINEN 3B07	18	
	19	ROOM 3B50, 3B48, 3BCOR13,...	20 A	780	960					20 A	SHREDDER COPY RM 3A04	20	
	21	MICROWAVE STAFF COMMON...	20 A			1200	540			20 A	R-RECEPTION 3B26	22	
	23	R-RECEPTION 3B26	20 A					540	540	20 A	R-MED. DIR. OFFICE 3A09	24	
	25	R-RECEPTION 3A02	20 A	540	540					20 A	FRIDGE STAFF COMMON 3A05	26	
	27	R-GROUP 3B02	20 A			540	720			20 A	R-OFFICE 3A13	28	
	29	R-TELCOMM 3B01T	20 A					720	960	20 A	SHREDDER RECEPTION 3B26	30	
	31	R-MED. DIR. OFFICE 3A09	20 A	720	960					20 A	SHREDDER COPY RM 3A04	32	
	33	SHREDDER COPY RM 3B27	20 A			960	1080			20 A	R-ROOM 3ACOR02, 3B25	34	
	35	R-ROOM 3B06, 3ACOR02,...	20 A					1080	1260	20 A	R-ROOM 3B26, 3B27	36	
	37	R-GROUP 3B03	20 A	1080	1260					20 A	R-RECEPTION 3A08	38	
	39	R-ROOM 3B07, 3A03, 3ACOR01,...	20 A			1260	1500			20 A	COPIER COPY RM 3A04	40	
	41	COPIER COPY RM 3B27	20 A					1500	180	20 A	DRINKING FOUNTAIN WAITING...	42	
	43	COFFEE STAFF COMMON 3A05	20 A	1500	0					20 A	SPARE	44	
	45	R-OFFICE 3A43	20 A			600	0			20 A	SPARE	46	
	47	SPARE	20 A					0	0	20 A	SPARE	48	
	49	SPARE	20 A	0	0					20 A	SPARE	50	
	51	SPARE	20 A			0	0			20 A	SPARE	52	
	53	SPARE	20 A					0	0	20 A	SPARE	54	
	55	SPARE	20 A	0	0					20 A	SPARE	56	
	57	SPARE	20 A			0	0			20 A	SPARE	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
--	67	SPACE	--	0	0					--	SPACE	68	--
--	69	SPACE	--			0	0			--	SPACE	70	--
--	71	SPACE	--					0	0	--	SPACE	72	--
--	73	SPACE	--	0	0					--	SPACE	74	--
--	75	SPACE	--			0	0			--	SPACE	76	--
--	77	SPACE	--					0	0	--	SPACE	78	--
--	79	SPACE	--	0	0					--	SPACE	80	--
--	81	SPACE	--			0	0			--	SPACE	82	--
--	83	SPACE	--					0	0	--	SPACE	84	--
			Total Load:	11449 VA		12046 VA		11600 VA					
			Total Amps:	95 A		101 A		97 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	26866 VA	68.61%	18433 VA	**Total Conn. Load:**	35095 VA
Motor	667 VA	125.00%	834 VA	**Total Est. Demand:**	26145 VA
Appliance	3420 VA	80.00%	2736 VA	**Total Conn.:**	97 A
Equipment	4142 VA	100.00%	4142 VA	**Total Est. Demand:**	73 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AH3A AL3A AL3B
AH3B

ISSUED FOR CONSTRUCTION

Revisions:		Date
1	ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARM 8-1-2014

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Drawing Title: **AREA A NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E606**

Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

8/3/2014 3:07:37 PM

AH4

Location: ELECTRICAL 4B19E
Supply From: TAP-AH4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 30,000
Mains Type: MCB
Bus Rating: 125 A
MCB Rating: 125 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-ROOM 4A13, 4A17, 4A40, 4A18,...	20 A	2276	2538					20 A	L-ROOM 4BCOR10, 4ACOR06,...	2	
	3	L-ROOM 4A33, 4B18, 4B15, 4A19,...	20 A			3474	2921					4	
	5	L-ROOM 4B46, 4B47, 4B49, 4B23,...	20 A					3431	2921	25 A	DVC-1 DENTAL VACUUM PUMP	6	
	7			2921	2921							8	
	9	DVC-1 DENTAL VACUUM PUMP	25 A			2921	3718					10	
	11							2921	3718	30 A	DAC-1 DENTAL AIR COMPRESSOR	12	
	13	DAC-1 DENTAL AIR COMPRESSOR	30 A	3718	3718							14	
	15					3718	0			20 A	SPARE	16	
	17							3718	0	20 A	SPARE	18	
--	19	SPACE - 3POLE	--	0	0					--	SPACE - 3 POLE	20	--
--	21	-	--			0	0			--	-	22	--
--	23	-	--					0	0	--	-	24	--
--	25	SPACE - 3 POLE	--	0	0					--	SPACE 3 POLE	26	--
--	27	-	--			0	0			--	-	28	--
--	29	-	--					0	0	--	-	30	--
			Total Load:	18093 VA		16753 VA		16710 VA					
			Total Amps:	65 A		61 A		60 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	12063 VA	125.00%	15078 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	51899 VA
Motor	39836 VA	107.00%	42625 VA	**Total Est. Demand:**	57703 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	62 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	69 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AL4A

Location: ELECTRICAL 4B19E
Supply From: T-AL4A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	6	1440					20 A	R-ROOM 4B48, 4B57	2	
	3	SCALE STO WC 4A17	20 A			60	240			20 A	SCALE W/C 4B31	4	
	5	APPLIANCE STAFF COMMON...	20 A					180	466	20 A	R-STAFF COMMON 4B58	6	
	7	R-STAFF LOUNGE 4A40	20 A	466	540					20 A	FRIDGE STAFF LOUNGE 4A40	8	
	9	MIXER-INVESTER LAB 4A13	20 A			480	600			20 A	CHAIRS ROOM 3A38, 3A28	10	
	11	FRIDGE STAFF COMMON 4B58	20 A					540	740	20 A	R-CONFERENCE 4B18	12	
	13	R-ROOM 4B25, 4B27, 4B29	20 A	1400	780					20 A	R-SUPERVISOR 4A12	14	
	15	R-ROOM 4B23, 4B25, 4B27, 4B29	20 A			1720	1080			20 A	R-MED 4B43	16	
	17	R-ROOM 4B23, 4B25	20 A					1040	1200	20 A	MICROWAVE STAFF COMMON...	18	
	19	R-ROOM 4B51, 4ACOR04,...	20 A	900	1332					20 A	CANOPY FUME HOOD LAB 4A13	20	
	21	VAV XFMR CP 4ACOR05,...	20 A			1000	1400			20 A	R-OFFICE / EXAM 4B50	22	
	23	CAD-1 COMPRESSED AIR...	20 A					1560	1440	20 A	R-OFFICE 4B10	24	
	25	R-OPEN OFFICE 4B11	20 A	1400	1500					20 A	COFFEE STAFF LOUNGE 4A40	26	
	27	COFFEE STAFF COMMON 4B58	20 A			1500	750			20 A	R-LAB 4A13	28	
	29	VAC PUMP LAB 4A13	20 A					1800	750			30	
	31	R-LAB 4A13	20 A	750	360					20 A	R-MECHANICAL 4A15	32	
	33					750	540			20 A	R-SUPERVISOR 4A12	34	
	35	R-ROOM 4B46, 4B49	20 A					1040	540	20 A	TRIMMER LAB 4A13	36	
	37	R-ROOM 4B47, 4B49	20 A	1040	540					20 A	R-LAB 4A13	38	
	39	R-ROOM 4B46, 4B47	20 A			1040	540			20 A	R-ELECTRICAL 4B19E	40	
	41	R-OPERATORY 4A24	20 A					540	575	20 A	R-LAB 4A13	42	
	43	R-OPERATORY 4A37	20 A	540	720					20 A	R-OFFICE, PHYSICIAN 4B55	44	
	45	R-CONFERENCE 4B18	20 A			540	720			20 A	R-OFFICE 4B16	46	
	47	R-OPERATORY 4A24	20 A					720	720	20 A	R-OFFICE 4B17	48	
	49	R-OPERATORY 4A37	20 A	720								50	
	51	BOILOUT RECIRC. LAB 4A13	20 A			900						52	
	53	R-INSTR / WORK 4B08	20 A					1040				54	
	55				1080					20 A	R-OPEN OFFICE 4B11	56	
	57	R-ROOM 4A18, 4A16, 4ACOR03,...	20 A			1080	1200			20 A	R-STAFF COMMON 3B36	58	
	59	STEAM CLEANER LAB 4A13	20 A					1080	1200	20 A	R-STAFF COMMON 3B36	60	
	61	R-OFFICE / EXAM 3B33	20 A	1200	1200					20 A	MICROWAVE STAFF LOUNGE...	62	
	63	R-OFFICE / EXAM 3B31	20 A			1200	1260			20 A	PLUGMOLD CORRIDOR 4ACOR03	64	
	65	R-OFFICE / EXAM 3B33	20 A					1200	1260	20 A	R-ROOM 4B09, 4B13, 4ACOR04,...	66	
	67	PLUGMOLD CORRIDOR 4ACOR03	20 A	1260	1440					20 A	TABLE EXAM 4B46	68	
	69	TABLE EXAM 4B47	20 A			1440	1440			20 A	TABLE EXAM 4B27	70	
	71	TABLE EXAM 4B49	20 A					1440	1440	20 A	TABLE EXAM 4B29	72	
	73	TABLE EXAM 4B25	20 A	1440	1440					20 A	R-ROOM 4A19, 4A22, 4A17, 4A38...	74	
	75	R-ROOM 4B24, 4B28, 4ACOR04,...	20 A			1440	0			20 A	SPARE	76	
	77	TABLE EXAM 4B23	20 A					1440	0	20 A	SPARE	78	
	79	R-HOME OXYGEN 4B56	20 A	360	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
	103	SPARE	20 A	0	0					20 A	SPARE	104	
	105	SPARE	20 A			0	0			20 A	SPARE	106	
	107	SPARE	20 A					0	0	--	SPACE	108	--
	109	SPARE	20 A	0	0					--	SPACE	110	--
	111	SPARE	20 A			0	0			--	SPACE	112	--
--	113	SPACE	--					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE	--	0	0					--	SPACE	122	--
--	123	SPACE	--			0	0			--	SPACE	124	--
--	125	SPACE	--					0	0	--	SPACE	126	--
			Total Load:	23854 VA		22920 VA		23951 VA					
			Total Amps:	200 A		191 A		201 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	45699 VA	60.94%	27850 VA	**Total Conn. Load:**	70725 VA
Motor	900 VA	120.00%	1080 VA	**Total Est. Demand:**	50724 VA
Appliance	6660 VA	65.00%	4329 VA	**Total Conn.:**	196 A
Equipment	17466 VA	100.00%	17466 VA	**Total Est. Demand:**	141 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AL4B

Location: ELECTRICAL 4B19E
Supply From: T-AL4B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	7	420					20 A	R-TREATMENT 4B34	2	
	3	KIOSK & TV WAITING AREA 4B38	20 A			400	600			20 A	CHAIRS ROOM 3A26, 3ACOR08	4	
	5	KIOSK & TV ROOM 4A01	20 A					400	660	20 A	R-GROUP 4B35	6	
	7	R-GROUP 4B35	20 A	720	900					20 A	CHAIRS ROOM 3A25, 3A15,...	8	
	9	R-ADMIN LEAD 4A10	20 A			780	960			20 A	R-SECRETARY 4A05	10	
	11	R-TREATMENT 4B34	20 A					860	900	20 A	CHAIRS ROOM 3A40R, 3A03,...	12	
	13	R-ROOM 4A07, 4A33, 4ACOR03,...	20 A	1260	1440					20 A	TABLE DERM EXAM 4B32	14	
	15	R-ROOM 4B39, 4B41	20 A			1260	1440			20 A	TABLE DERM EXAM 4B33	16	
	17	R-OFFICE 4B06	20 A					1040	1620	20 A	R-TREATMENT 4B34	18	
	19	R-OFFICE 4B02	20 A	1440	360					20 A	R-COPY 4A04	20	
	21	RADIOGRAPHIC UNIT PANO	25 A			1248	180			20 A	R-OFFICE 4B07	22	
	23	X-RAY 4A30						1248	360	20 A	R-OFFICE 4B07	24	
	25	R-ROOM 4ACOR02, 4BCOR01	20 A	540	540					20 A	R-OPERATORY 4A28	26	
	27	R-ROOM 4B32, 4B33	20 A			540	540			20 A	R-OPERATORY 4A35	28	
	29	R-WAITING AREA 4B38	20 A					540	540	20 A	R-OPERATORY 4A36	30	
	31	R-OPERATORY 4A25	20 A	540	540					20 A	R-HYGIENE 4A34	32	
	33	R-OPERATORY 4A26	20 A			540	540			20 A	R-OPERATORY 4A09	34	
	35	R-OPERATORY 4A27	20 A					540	540	20 A	R-OPERATORY 4A11	36	
	37	R-ADMIN LEAD 4A10	20 A	540	720					20 A	R-PANO X-RAY 4A30	38	
	39	R-HYGIENE 4A08	20 A			540	720			20 A	R-TELCOMM 4B01T	40	
	41	R-HYGIENE 4A29	20 A					540	720	20 A	R-WAITING AREA 4B38	42	
	43	R-OPERATORY 4A28	20 A	720	720					20 A	R-OPERATORY 4A25	44	
	45	R-OPERATORY 4A35	20 A			720	720			20 A	R-OPERATORY 4A26	46	
	47	R-OPERATORY 4A36	20 A					720	720	20 A	R-OPERATORY 4A27	48	
	49	R-HYGIENE 4A34	20 A	720	720					20 A	R-GROUP 4B35	50	
	51	R-OPERATORY 4A09	20 A			720	720			20 A	R-HYGIENE 4A08	52	
	53	R-OPERATORY 4A11	20 A					720	720	20 A	R-HYGIENE 4A29	54	
	55	CHAIRS ROOM 4A29, 3A08	20 A	900	960					20 A	SHREDDER COPY RM 4B41	56	
	57	R-RECEPTION 4A03	20 A			900	960			20 A	SHREDDER RECEPTION 4A03	58	
	59	R-ROOM 4B03, 4BCOR10,...	20 A					900	960	20 A	SHREDDER RECEPTION 4B39	60	
	61	R-RECEPTION 4A03	20 A	1260	1080					20 A	R-CUBICLE OFFICE 4A07	62	
	63	R-RECEPTION 4B39	20 A			1080	1080			20 A	R-CUBICLE OFFICE 4A07	64	
	65	R-ROOM 4A01, 5E49	20 A					1080	1080	20 A	R-CUBICLE OFFICE 4A07	66	
	67	R-CUBICLE OFFICE 4A07	20 A	1080	1220					20 A	R-CUBICLE OFFICE 4A07	68	
	69	R-CUBICLE OFFICE 4A07	20 A			1080	860			20 A	R-DERM EXAM 4B32	70	
	71	R-CUBICLE OFFICE 4A07	20 A					1080	860	20 A	R-DERM EXAM 4B33	72	
	73	COPIER COPY 4A04	20 A	1500	180					20 A	DRINKING FOUNTAIN WAITING...	74	
	75	COPIER COPY RM 4A04	20 A			1500	0			20 A	SPARE	76	
	77	COPIER COPY RM 4B41	20 A					1500	0	20 A	SPARE	78	
	79	RECEPTACLE OFFICE 4B07	20 A	600	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
	103	SPARE	20 A	0	0					20 A	SPARE	104	
	105	SPARE	20 A			0	0			20 A	SPARE	106	
	107	SPARE	20 A					0	0	20 A	SPARE	108	
	109	SPARE	20 A	0	0					20 A	SPARE	110	
--	111	SPACE	--			0	0			--	SPACE	112	--
--	113	SPACE	--					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE	--	0	0					--	SPACE	122	--
--	123	SPACE	--			0	0			--	SPACE	124	--
--	125	SPACE	--					0	0	--	SPACE	126	--
			Total Load:	21627 VA		20628 VA		20848 VA					
			Total Amps:	181 A		172 A		174 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	48940 VA	60.22%	29470 VA	**Total Conn. Load:**	63103 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	43633 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	175 A
Equipment	14163 VA	100.00%	14163 VA	**Total Est. Demand:**	121 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AH4 AL4A AL4B

ISSUED FOR CONSTRUCTION

Revisions:		Date
1	ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNN 08/08/2014 CAVEO PROJ. 13-2893 8-1-2014

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Drawing Title: **AREA A NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E607**

Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

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AH5

Location: ELECTRICAL 5B28E
Supply From: TAP-AH4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: PROVIDE ADJUSTABLE TRIP MAIN CIRCUIT BREAKER TO COORDINATE WITH ISOLATION PANEL BRANCH CIRCUIT BREAKERS.

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 30,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-ROOM 5BCOR08, 5BCOR03,...	20 A	3511	0					20 A	SPARE	2	
	3	SPARE	20 A			0	2840			30 A	T-N-ISO-5B12	4	[1]
	5	L-ROOM 5B16, 5B34, 5B23, 5B02,...	20 A					3189	1740			6	
[1]	7	T-N-ISO-5B03	30 A	1040	0					20 A	SPARE	8	
	9					2100	1920			30 A	T-N-ISO-5B06	10	[1]
	11	SPARE	20 A					0	1220			12	
	13	SPARE	20 A	0	720					30 A	T-N-ISO-5C18	14	[1]
[1]	15	T-N-ISO-5B15	30 A			1920	360					16	
	17							1220	558			18	
	19			903	558					20 A	EF-5A04	20	
	21	EF-5A03	20 A			903	558					22	
	23							903	0	20 A	SPARE	24	
--	25	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	26	--
--	27	-	--			0	0			--	-	28	--
--	29	-	--					0	0	--	-	30	--
--	31	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	32	--
--	33	-	--			0	0			--	-	34	--
--	35	-	--					0	0	--	-	36	--
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
			Total Load:	6732 VA		10601 VA		8830 VA					
			Total Amps:	24 A		39 A		33 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	7420 VA	125.00%	9275 VA		
Receptacle	8480 VA	100.00%	8480 VA	**Total Conn. Load:**	26882 VA
Motor	4382 VA	115.46%	5059 VA	**Total Est. Demand:**	29415 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	32 A
Equipment	6600 VA	100.00%	6600 VA	**Total Est. Demand:**	35 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:
1. PROVIDE ADJUSTABLE TRIP CIRCUIT BREAKER TO COORDINATE WITH ISOLATION PANEL BRANCH CIRCUIT BREAKERS.

AL5A

Location: ELECTRICAL 5B28E
Supply From: T-AL5A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 150 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	122	540					20 A	FRIDGE SURG / STAFF LOUNGE...	2	
	3	APPLIANCE SURG / STAFF...	20 A			180	540			20 A	R-CYTOL 5B37	4	
	5	R-SURG / STAFF LOUNGE 5B23	20 A					466	1127	20 A	EF-5A01	6	
	7	R-COMM CENTER 5B19	20 A	720	1040					20 A	R-PATHOLOGIST OFFICE 5B33	8	
	9	FUME HOOD CYTOL 5B37	20 A			1344	1440			20 A	R-ROOM 5B20, 5BCOR08,...	10	
	11	R-ELECTRICAL 5B28E	20 A					720	540	20 A	R-OFFICE, CHIEF 5B31	12	
	13	MICROWAVE SURG / STAFF...	20 A	1200	1500					20 A	COFFEE SURG / STAFF LOUNG...	14	
	15	R-CONFERENCE/CLASSROOM...	20 A			1620	360			20 A	R-ADMIN 5B32	16	
	17	R-SURG/ PA WORK 5B29	20 A					1220	1200	20 A	PATH. GROSSING CYTOL 5B37	18	
	19	R-ADMIN 5B32	20 A	360	540					20 A	R-OFFICE, CHIEF 5B31	20	
	21	R-ROOM 5B24R, 5B22R, 5B22	20 A			540	540			20 A	R-HISTOL. 5B36	22	
	23	R-ANESTH WORK/ EQ STO 5B21	20 A					360	360	20 A	R-SUBSTERILE AREA 5B13	24	
	25	R-CYTOL 5B37	20 A	540	720					20 A	R-NURSE/TECH WORK 5B39	26	
	27	R-SURG/ PA WORK 5B29	20 A			720	0			20 A	SPARE	28	
	29	R-HISTOL. 5B36	20 A					540	720	20 A	R-SURG/ PA WORK 5B38	30	
	31	SPARE	20 A	0	0					20 A	SPARE	32	
	33	SPARE	20 A			0	895			20 A	R-FRZN SECT LAB 5B35	34	
	35	SPARE	20 A					0	0	20 A	SPARE	36	
	37	R-CYTOL 5B37	20 A	860	900					20 A	R-HISTOL. 5B36	38	
	39	R-ROOM 5B25, 5B26, 5BCOR03,...	20 A			900	0			20 A	SPARE	40	
	41	R-SURG/ PA WORK 5B38	20 A					860	900	20 A	R-ROOM 5B25, 5B26, 5BCOR04,...	42	
	43	PATH. GROSSING CYTOL 5B37	20 A	1200	0					20 A	SPARE	44	
	45	SPARE	20 A			0	0			20 A	SPARE	46	
	47	SPARE	20 A					0	0	20 A	SPARE	48	
	49	SPARE	20 A	0	0					20 A	SPARE	50	
	51	SPARE	20 A			0	0			20 A	SPARE	52	
	53	SPARE	20 A					0	0	20 A	SPARE	54	
	55	SPARE	20 A	0	0					20 A	SPARE	56	
	57	SPARE	20 A			0	0			20 A	SPARE	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	STAINER SLIDE PROCESSOR	20 A					1352	0	--	SPACE	66	--
	67	HISTOL. 5B36		1352	0					--	SPACE	68	--
--	69	SPACE	--			0	0			--	SPACE	70	--
--	71	SPACE	--					0	0	--	SPACE	72	--
--	73	SPACE	--	0	0					--	SPACE	74	--
--	75	SPACE	--			0	0			--	SPACE	76	--
--	77	SPACE	--					0	0	--	SPACE	78	--
--	79	SPACE	--	0	0					--	SPACE	80	--
--	81	SPACE	--			0	0			--	SPACE	82	--
--	83	SPACE	--					0	0	--	SPACE	84	--
			Total Load:	11594 VA		9079 VA		10365 VA					
			Total Amps:	98 A		76 A		88 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	19921 VA	75.10%	14961 VA	**Total Conn. Load:**	31038 VA
Motor	1127 VA	125.00%	1409 VA	**Total Est. Demand:**	25675 VA
Appliance	3420 VA	80.00%	2736 VA	**Total Conn.:**	86 A
Equipment	6570 VA	100.00%	6570 VA	**Total Est. Demand:**	71 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AL5B

Location: ELECTRICAL 5B28E
Supply From: T-AL5B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	R-SUBSTERILE AREA 5B04	20 A	180	1000					20 A	R-NURSE/TECH WORK 5B40	2
3	EQUIPMENT ROOM 5B04, 5B03,...	20 A			240	660			20 A	R-CONFERENCE/CLASSROOM...	4
5	R-CONFERENCE/CLASSROOM...	20 A					540	860	20 A	R-NURSE/TECH WORK 5B39	6
7	R-ROOM 5B09, 5B40, 5BCOR06,...	20 A	1260	360					20 A	R-LINEN 5B08	8
9	EF-5A02	20 A			667	360			20 A	R-STO EQ/APP 5B02	10
11	R-DICTATION 5B41	20 A					1080	360	20 A	RECEPTACLE HEAD NURSE 5B42	12
13	R-CLEAN CORE 5B07	20 A	360	720					20 A	R-NURSE/TECH WORK 5B40	14
15	R-CLEAN CORE 5B07	20 A			360	720			20 A	R-ROOM 5B01, 5BCOR02,...	16
17	R-HEAD NURSE 5B42	20 A					360	720	20 A	R-TELCOMM 5B45T	18
19	R-CLEAN CORE 5B07	20 A	720	0					20 A	SPARE	20
21	R-NURSE/TECH WORK 5B39	20 A			720	0			20 A	SPARE	22
23	R-NURSE/TECH WORK 5B40	20 A					720	0	20 A	SPARE	24
25	SPARE	20 A	0	0					20 A	SPARE	26
27	SPARE	20 A			0	0			20 A	SPARE	28
29	SPARE	20 A					0	0	20 A	SPARE	30
31	SPARE	20 A	0	0					20 A	SPARE	32
33	SPARE	20 A			0	0			20 A	SPARE	34
35	SPARE	20 A					0	0	20 A	SPARE	36
37	SPARE	20 A	0	0					20 A	SPARE	38
39	SPARE	20 A			0	0			20 A	SPARE	40
41	SPARE	20 A					0	0	20 A	SPARE	42
	Total Load:	4600 VA			3727 VA		4640 VA				
	Total Amps:	39 A			31 A		40 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	11860 VA	92.16%	10930 VA	**Total Conn. Load:**	12967 VA
Motor	667 VA	125.00%	834 VA	**Total Est. Demand:**	12204 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	36 A
Equipment	440 VA	100.00%	440 VA	**Total Est. Demand:**	34 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AH5 AL5A AL5B

ISSUED FOR CONSTRUCTION

Revisions:	Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 CAVEO PROJECT: 13-2331 06/09/2014 ENGINEER RYAN J. ARNI 8-1-22H

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Drawing Title: **AREA A NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E608**

Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

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AHP

Location: ELECTRICAL 6B02E
Supply From: AH3A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 30,000
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-VA SIGN	20 A	500	797							2	
	3	L-ROOM 6B03, 6B02, 6B01E	20 A			1408	797			15 A	EF-6A06	4	
	5							2396	797			6	
	7	T-ALP	35 A	2727	1270							8	
	9					1640	1270			15 A	EF-6A09	10	
	11							8233	1270			12	
	13	AHU-4-R1 RETURN FAN 6B03	60 A	8233	8233							14	
	15					8233	8233			60 A	AHU-4-R2 RETURN FAN 6B04	16	
	17							15119	8233			18	
[1]	19	ELEV-6	60 A	15119	15669							20	
	21					15119	15669			110 A	AHU-4-S1 SUPPLY FAN 6B03	22	
	23							15669	15669			24	
	25	AHU-4-S2 SUPPLY FAN 6B04	110 A	15669	0					--	SPACE - 3 POLE	26	--
	27					15669	0			--	-	28	--
	29	SPARE	20 A					0	0	--	-	30	--
--	31	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	32	--
--	33	-	--			0	0			--	-	34	--
--	35	-	--					0	0	--	-	36	--
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
			Total Load:	68218 VA		68039 VA		67387 VA					
			Total Amps:	247 A		246 A		243 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	2158 VA	125.00%	2698 VA		
Receptacle	1980 VA	100.00%	1980 VA	**Total Conn. Load:**	203643 VA
Motor	153547 VA	107.65%	165299 VA	**Total Est. Demand:**	215935 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	245 A
Equipment	600 VA	100.00%	600 VA	**Total Est. Demand:**	260 A
Heating	0 VA	0.00%	0 VA		
Elevator	45358 VA	100.00%	45358 VA		

Notes:
1. PROVIDE SHUNT TRIP CIRCUIT BREAKER.

N-ISO-5B03

Location:
Supply From: AH5
Mounting: Surface
Enclosure: Type 1
Branch: NORMAL
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MAIN CIRCUIT BREAKER SHALL SELECTIVELY COORDINATE WITH BRANCH CIRCUIT BREAKERS.

Pri. AIC Rating: 14,000
Primary Volts: 480 V
Phases: 1
Primary Wires: 2#10 (L-L)
Primary MCB: 30 A

Iso-Transformer: 10kVA
Secondary Volts: 120 V
Phases: 1
Wires: 2 (L-L)
Secondary MCB: 0 A

	CKT	Circuit Description	Trip	L1		L2		Trip	Circuit Description	CKT	
	1	R-GENERAL OP RM 5B03	20 A	500	0			20 A	SPARE	2	
	3	EQUIPMENT GENERAL OP RM 5B03	20 A			1200	360	20 A	R-GENERAL OP RM 5B03	4	
	5	R-GENERAL OP RM 5B03	20 A	180	360			20 A	R-GENERAL OP RM 5B03	6	
	7	R-GENERAL OP RM 5B03	20 A			360	180	20 A	R-GENERAL OP RM 5B03	8	
	9	SPARE	20 A	0	0			20 A	SPARE	10	
	11	SPARE	20 A			0	0	20 A	SPARE	12	
--	13	SPACE	--	0	0			--	SPACE	14	--
--	15	SPACE	--			0	0	--	SPACE	16	--
			Total Load:	1040 VA		2100 VA					
			Total Amps:	9 A		18 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	1940 VA	100.00%	1940 VA	**Total Conn. Load:**	3140 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	3140 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	13 A
Equipment	1200 VA	100.00%	1200 VA	**Total Est. Demand:**	13 A
Heating	0 VA	0.00%	0 VA		

Notes:

N-ISO-5B06

Location:
Supply From: AH5
Mounting: Surface
Enclosure: Type 1
Branch: NORMAL
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MAIN CIRCUIT BREAKER SHALL SELECTIVELY COORDINATE WITH BRANCH CIRCUIT BREAKERS.

Pri. AIC Rating: 14,000
Primary Volts: 480 V
Phases: 1
Primary Wires: 2#10 (L-L)
Primary MCB: 30 A

Iso-Transformer: 10kVA
Secondary Volts: 120 V
Phases: 1
Wires: 2 (L-L)
Secondary MCB: 0 A

	CKT	Circuit Description	Trip	L1		L2		Trip	Circuit Description	CKT	
	1	EQUIPMENT GENERAL OP RM 5B06	20 A	1200	0			20 A	SPARE	2	
	3	R-GENERAL OP RM 5B06	20 A			500	360	20 A	R-GENERAL OP RM 5B06	4	
	5	R-GENERAL OP RM 5B06	20 A	360	360			20 A	R-GENERAL OP RM 5B06	6	
	7	R-GENERAL OP RM 5B06	20 A			180	180	20 A	R-GENERAL OP RM 5B06	8	
	9	SPARE	20 A	0	0			20 A	SPARE	10	
	11	SPARE	20 A			0	0	20 A	SPARE	12	
--	13	SPACE	--	0	0			--	SPACE	14	--
--	15	SPACE	--			0	0	--	SPACE	16	--
			Total Load:	1920 VA		1220 VA					
			Total Amps:	16 A		10 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	1940 VA	100.00%	1940 VA	**Total Conn. Load:**	3140 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	3140 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	13 A
Equipment	1200 VA	100.00%	1200 VA	**Total Est. Demand:**	13 A
Heating	0 VA	0.00%	0 VA		

Notes:

ALP

Location: ELECTRICAL 6B02E
Supply From: T-ALP
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch:

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	EF-6A07	20 A	506	720					20 A	R-PENTHOUSE LEVEL ROOF	2	
	3	R-6B01E	20 A			540	1587			20 A	EF-6A02	4	
	5	R-PENTHOUSE LEVEL ROOF	20 A					720	920	15 A	EF-6A03	6	
	7	L-AHU-4 120V POWER 6B04	20 A	250	920							8	
	9	H-4 HUMIDIFIER FOR AHU-4	20 A			600	0			20 A	SPARE	10	
	11	SPARE	20 A					0	0	20 A	SPARE	12	
	13	SPARE	20 A	0	0					20 A	SPARE	14	
	15	SPARE	20 A			0	0			20 A	SPARE	16	
--	17	SPACE	--					0	0	--	SPACE	18	--
--	19	SPACE	--	0	0					--	SPACE	20	--
--	21	SPACE	--			0	0			--	SPACE	22	--
--	23	SPACE	--					0	0	--	SPACE	24	--
			Total Load:	2396 VA		2727 VA		1640 VA					
			Total Amps:	21 A		24 A		14 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	250 VA	125.00%	313 VA		
Receptacle	1980 VA	100.00%	1980 VA	**Total Conn. Load:**	6763 VA
Motor	3933 VA	111.70%	4393 VA	**Total Est. Demand:**	7286 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	19 A
Equipment	600 VA	100.00%	600 VA	**Total Est. Demand:**	20 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

N-ISO-5B12

Location:
Supply From: AH5
Mounting: Surface
Enclosure: Type 1
Branch: NORMAL
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MAIN CIRCUIT BREAKER SHALL SELECTIVELY COORDINATE WITH BRANCH CIRCUIT BREAKERS.

Pri. AIC Rating: 14,000
Primary Volts: 480 V
Phases: 1
Primary Wires: 2#10 (L-L)
Primary MCB: 30 A

Iso-Transformer: 10kVA
Secondary Volts: 120 V
Phases: 1
Wires: 2 (L-L)
Secondary MCB: 0 A

	CKT	Circuit Description	Trip	L1		L2		Trip	Circuit Description	CKT	
	1	R-GENERAL OP RM 5B12	20 A	500	180			20 A	R-GENERAL OP RM 5B12	2	
	3	R-GENERAL OP RM 5B12	20 A			360	1200	20 A	ANESTHESIA GENERAL OP RM 5B12	4	
	5	R-GENERAL OP RM 5B12	20 A	360	1800			20 A	EQUIPMENT GENERAL OP RM 5B12	6	
	7	R-GENERAL OP RM 5B12	20 A			180	0	20 A	SPARE	8	
	9	SPARE	20 A	0	0			20 A	SPARE	10	
	11	SPARE	20 A			0	0	20 A	SPARE	12	
--	13	SPACE	--	0	0			--	SPACE	14	--
--	15	SPACE	--			0	0	--	SPACE	16	--
			Total Load:	2840 VA		1740 VA					
			Total Amps:	24 A		15 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	1580 VA	100.00%	1580 VA	**Total Conn. Load:**	4580 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	4580 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	19 A
Equipment	3000 VA	100.00%	3000 VA	**Total Est. Demand:**	19 A
Heating	0 VA	0.00%	0 VA		

Notes:

N-ISO-5B15

Location:
Supply From: AH5
Mounting: Surface
Enclosure: Type 1
Branch: NORMAL
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MAIN CIRCUIT BREAKER SHALL SELECTIVELY COORDINATE WITH BRANCH CIRCUIT BREAKERS.

Pri. AIC Rating: 14,000
Primary Volts: 480 V
Phases: 1
Primary Wires: 2#10 (L-L)
Primary MCB: 30 A

Iso-Transformer: 10kVA
Secondary Volts: 120 V
Phases: 1
Wires: 2 (L-L)
Secondary MCB: 0 A

	CKT	Circuit Description	Trip	L1		L2		Trip	Circuit Description	CKT	
	1	R-GENERAL OP RM 5B15	20 A	180	180			20 A	R-GENERAL OP RM 5B15	2	
	3	R-GENERAL OP RM 5B15	20 A			500	0	20 A	SPARE	4	
	5	EQUIPMENT GENERAL OP RM 5B15	20 A	1200	360			20 A	R-GENERAL OP RM 5B15	6	
	7	R-GENERAL OP RM 5B15	20 A			360	360	20 A	R-GENERAL OP RM 5B15	8	
	9	SPARE	20 A	0	0			20 A	SPARE	10	
	11	SPARE	20 A			0	0	20 A	SPARE	12	
--	13	SPACE	--	0	0			--	SPACE	14	--
--	15	SPACE	--			0	0	--	SPACE	16	--
			Total Load:	1920 VA		1220 VA					
			Total Amps:	16 A		10 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	1940 VA	100.00%	1940 VA	**Total Conn. Load:**	3140 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	3140 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	13 A
Equipment	1200 VA	100.00%	1200 VA	**Total Est. Demand:**	13 A
Heating	0 VA	0.00%	0 VA		

Notes:

AHP N-ISO-5B03 N-ISO-5B06
ALP N-ISO-5B12 N-ISO-5B15

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARM 8-1-2014

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Drawing Title: **AREA A NORMAL PANEL SCHEDULES**
Approved: Project Director

Project Title: VA Charlotte Health Care Center
Project Number: SFO# VA-101-10-RP-0081
Building Number:
Location: Charlotte, NC
Drawing Number: **E609**
Date: 07/21/2014
Checked: RJA
Drawn: BCE
Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

8/3/2014 3:07:44 PM

ALCG

Location: ELECTRICAL 0B01E
Supply From: T-ALCG
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	TCP-0B03	20 A	250	576					20 A	L-ELECTRICAL 0B15	2	
	3	AUTO MED DISPENSOR...	20 A			840	720			20 A	R-ELECTRICAL 2B18	4	
	5	TCP-0B01 & TCP-0B02	20 A					500	900	20 A	AUTODOORS RADIOLOGY	6	
	7	AUTODOORS STERILE...	20 A	900	1488					20 A	FRIDGE CLINICAL LAB-1 0D11-1	8	
	9	ENDO. REPROCESSOR CLEAN...	20 A			1000	1332			20 A	FREEZER CLINICAL LAB-1 0D11-1	10	
	11	L-STER. 0B22	20 A					1168	1800	20 A	R-CLEAN SCOPES 0B05R	12	
	13	FRIDGE CLINICAL LAB-1 0D11-1	20 A	1488	50					20 A	FCU-0B03	14	
	15	L-DECONTAMINATION 0B08	20 A			1533	50					16	
	17	UC-1 ULTRASONIC CLEANER-1	15 A					645	180	20 A	R-MED 2B48	18	
	19	0B08		645	180					20 A	R-MED 1A18	20	
	21	FCU-0B05	20 A			50	300			20 A	FCU-0A01,0A02,0A03,	22	
	23							50	300		1A02,1A03,2A02	24	
	25	R-CRASH CART 1AS1	20 A	180	180					20 A	UC FRIDGE MED 2B48	26	
	27	R-MED 2B21	20 A			180	180			20 A	R-CRASH CART 2B22	28	
	29	R-MED 1A18	20 A					180	180	20 A	FRIDGE MED 2B21	30	
	31	R-CLEAN PREP. 0B23	20 A	360	540					20 A	R-ELECTRICAL 0B01E	32	
	33	FRIDGE MED 1A18	20 A			180	360			20 A	R-MEDICAL GAS-1 0B47-1	34	
	35	R-MEDICAL GAS-1 0B47-1	20 A					360	540	20 A	R-ELECTRICAL 1B23E	36	
	37	BUILDING MANAGEMENT PANE...	20 A	500	1200					20 A	DISINFECTOR 0B06	38	
	39	R- A-SWGR 0B15E	20 A			540	0			20 A	SPARE	40	
	41	BUILDING MANAGEMENT PANE...	20 A					500	0	20 A	SPARE	42	
	43	WATER SAVER CHILLER SS-1...	20 A	1440	0					20 A	SPARE	44	
	45	R-ROOM 0B14, 0B08, 0B22	20 A			540	0			20 A	SPARE	46	
	47	FRIDGE STAFF LOUNGE 0B31	20 A					540	0	20 A	SPARE	48	
	49	FRIDGE STAFF LOUNGE 0C07	20 A	540	0					20 A	SPARE	50	
	51	FRIDGE EMPLOYEE WELLNESS...	20 A			540	0			20 A	SPARE	52	
	53	DWBP 120V POWER	20 A					1200	0	20 A	SPARE	54	
	55	FREEZER TREATMENT, KT 2A28	20 A	480	0					20 A	SPARE	56	
	57	FREEZER SCI TREATMENT 2A27	20 A			960	0			20 A	SPARE	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
	67	SPARE	20 A	0	0					20 A	SPARE	68	
	69	SPARE	20 A			0	0			20 A	SPARE	70	
--	71	SPACE	--					0	0	--	SPACE	72	--
--	73	SPACE	--	0	0					--	SPACE	74	--
--	75	SPACE	--			0	0			--	SPACE	76	--
--	77	SPACE	--					0	0	--	SPACE	78	--
	79	WD-1 WASHER/DISINFECTOR-1	60 A	5764	0					--	SPACE	80	--
	81	0B08				5764	0			--	SPACE	82	--
	83							5764	0	--	SPACE	84	--
			Total Load:	16761 VA		15069 VA		14807 VA					
			Total Amps:	140 A		126 A		123 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	3277 VA	125.00%	4096 VA		
Receptacle	8320 VA	100.00%	8320 VA	**Total Conn. Load:**	46638 VA
Motor	2600 VA	102.88%	2675 VA	**Total Est. Demand:**	44764 VA
Appliance	7908 VA	65.00%	5140 VA	**Total Conn.:**	129 A
Equipment	24533 VA	100.00%	24533 VA	**Total Est. Demand:**	124 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AHSG

Location: ELECTRICAL 0B01E
Supply From: TAP-AHSG
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 80 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
[1]	1	L-MAIN ENTRY PATH & ACCENT	20 A	703	2018					20 A	L-ROOM 0CCOR01-1, 0BCOR06,...	2	
	3					100	0			20 A	SPARE	4	
	5	T-ALSG	35 A					0	0	20 A	SPARE	6	
	7			0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	SPACE	--			0	0			--	-	16	--
--	17	SPACE	--					0	0	--	-	18	--
			Total Load:	2722 VA		100 VA		0 VA					
			Total Amps:	10 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	3105 VA	125.00%	3882 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	3208 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	3985 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	4 A
Equipment	100 VA	100.00%	100 VA	**Total Est. Demand:**	5 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:
1. PROVIDE SUB-METERING FOR THIS INDIVIDUAL CIRCUIT THAT ADDS TO THE SUB-METERING IN CPH-SITE.

AHS1

Location: ELECTRICAL 1B23E
Supply From: TAP-AHS1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 80 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SPARE	20 A	0	2741					20 A	L-CORRIDOR 1ACOR08	2	
[1]	3	L-GARDEN BOLLARDS-WEST	20 A			482	399			20 A	L-STAIR 2 1S02	4	
	5	SPARE	20 A					0	528	20 A	L-STAIR 3 0S03	6	
	7	L-ROOM 1S04, 2S04, 3S04, 4S04	20 A	487	350							8	
	9	SPARE	20 A			0	100			35 A	T-ALS1	10	
	11	SPARE	20 A					0	1127			12	
	13	SPARE	20 A	0	0					--	SPACE - 3 POLE	14	--
--	15	SPACE	--			0	0			--	-	16	--
--	17	SPACE	--					0	0	--	-	18	--
			Total Load:	3578 VA		981 VA		1655 VA					
			Total Amps:	13 A		4 A		6 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	4853 VA	125.00%	6067 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	6430 VA
Motor	1127 VA	125.00%	1409 VA	**Total Est. Demand:**	7925 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	8 A
Equipment	450 VA	100.00%	450 VA	**Total Est. Demand:**	10 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:
1. PROVIDE SUB-METERING FOR THIS INDIVIDUAL CIRCUIT THAT ADDS TO THE SUB-METERING IN CPH-SITE.

ALSG

Location: ELECTRICAL 0B01E
Supply From: T-ALSG
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	FACP - MAIN COMPUTER ROOM	20 A	100	0					20 A	SPARE	2	
	3	SPARE	20 A			0	0			20 A	SPARE	4	
	5	SPARE	20 A					0	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	100 VA		0 VA		0 VA					
			Total Amps:	1 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	100 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	100 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	0 A
Equipment	100 VA	100.00%	100 VA	**Total Est. Demand:**	0 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALS1

Location: ELECTRICAL 1B23E
Supply From: T-ALS1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	FAJB TELECOM 1B01T	20 A	100	250					20 A	HOOD FIRE ALARM...	2	
	3	FAJB TELECOM 1D17T	20 A			100	0			20 A	SPARE	4	
	5	BACK CANOPY AIR...	20 A					1127	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	350 VA		100 VA		1127 VA					
			Total Amps:	3 A		1 A		10 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	1577 VA
Motor	1127 VA	125.00%	1409 VA	**Total Est. Demand:**	1859 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	4 A
Equipment	450 VA	100.00%	450 VA	**Total Est. Demand:**	5 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALCG AHSG AHS1
ALSG ALS1

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ANNI 8-1-2014

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Drawing Title:
AREA A EMERGENCY PANEL SCHEDULES

Approved: Project Director

Project Title
VA Charlotte
Health Care Center

Location
Charlotte, NC

Date 07/21/2014
Checked RJA
Drawn BCE

Project Number SFO# VA-101-10-RP-0081
Building Number
Drawing Number **E610**
Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

8/5/2014 3:07:46 PM

AHS2

Location: ELECTRICAL 2B18 | **Volts:** 480/277 Wye | **AIC Rating:** 14,000
Supply From: TAP-AHS2 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **Branch:** LIFE SAFETY | **MCB Rating:** 80 A
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SPARE	20 A	0	2955					20 A	L-CORRIDOR 2ACOR06	2	
	3	T-ALS2	35 A			200	0			20 A	SPARE	4	
	5							0	0	20 A	SPARE	6	
	7			0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	SPACE	--			0	0			--	-	16	--
--	17	SPACE	--					0	0	--	-	18	--
			Total Load:	2955 VA		200 VA		0 VA					
			Total Amps:	11 A		1 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	3201 VA	125.00%	4002 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	3401 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	4202 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	4 A
Equipment	200 VA	100.00%	200 VA	**Total Est. Demand:**	5 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALC1T

Location: TELECOM 1B01T | **Volts:** 120/208 Wye | **AIC Rating:** 10,000
Supply From: T-ALC1T | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **Branch:** CRITICAL | **MCB Rating:** 50 A
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	TCP-1A01 TELECOM 1B01T	20 A	250	540					20 A	R-TELCOMM 1B01T	2	
	3	L-TELCOMM 1B01T	20 A			384	540			20 A	R-TELCOMM 1B01T	4	
	5	R-TELECOM 1B01T	20 A					1250	1250	20 A	R-TELECOM 1B01T	6	
	7	R-TELECOM 1B01T	20 A	1250	42					20 A	FCU-1A01	8	
	9	R-TELECOM 1B01T	20 A			1250	42					10	
	11	SPARE-BUILDING PANEL	20 A					0	0	20 A	SPARE-BUILDING PANEL	12	
	13	R-TELECOM 1B01T	20 A	1250	1250					20 A	R-TELECOM 1B01T	14	
	15	R-TELECOM 1B01T	20 A			1250	1250			20 A	R-TELECOM 1B01T	16	
	17	SPARE	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	20 A	SPARE	24	
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	4582 VA		4716 VA		2500 VA					
			Total Amps:	41 A		42 A		21 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	384 VA	125.00%	480 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11798 VA
Motor	84 VA	125.00%	105 VA	**Total Est. Demand:**	11915 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	33 A
Equipment	10250 VA	100.00%	10250 VA	**Total Est. Demand:**	33 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALS2

Location: ELECTRICAL 2B18 | **Volts:** 120/208 Wye | **AIC Rating:** 10,000
Supply From: T-ALS2 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **Branch:** LIFE SAFETY | **MCB Rating:** 50 A
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	FAJB TELECOM 2D13T	20 A	100	100					20 A	FAJB TELECOM 2B01T	2	
	3	SPARE	20 A			0	0			20 A	SPARE	4	
	5	SPARE	20 A					0	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	200 VA		0 VA		0 VA					
			Total Amps:	2 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	200 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	200 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	1 A
Equipment	200 VA	100.00%	200 VA	**Total Est. Demand:**	1 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALC2T

Location: TELECOM 2B01T | **Volts:** 120/208 Wye | **AIC Rating:** 10,000
Supply From: T-ALC2T | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **Branch:** CRITICAL | **MCB Rating:** 50 A
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	TCP-2A01 2B01T	20 A	250	540					20 A	R-TELCOMM 2B01T	2	
	3	L-TELCOMM 2B01T	20 A			384	540			20 A	R-TELCOMM 2B01T	4	
	5	R-TELECOM 2B01T	20 A					1250	1250	20 A	R-TELECOM 2B01T	6	
	7	R-TELECOM 2B01T	20 A	1250	50					20 A	FCU-2A01	8	
	9	R-TELECOM 2B01T	20 A			1250	50					10	
	11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 2B01T	12	
	13	R-TELECOM 2B01T	20 A	1250	1250					20 A	R-TELECOM 2B01T	14	
	15	R-TELECOM 2B01T	20 A			1250	0			20 A	SPARE-BUILDING PANEL	16	
	17	SPARE	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	20 A	SPARE	24	
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	4590 VA		3474 VA		3750 VA					
			Total Amps:	39 A		29 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	384 VA	125.00%	480 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11814 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11935 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	33 A
Equipment	10250 VA	100.00%	10250 VA	**Total Est. Demand:**	33 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AHS2 ALC1T
ALS2 ALC2T

ISSUED FOR CONSTRUCTION

Revisions:	Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNN 8-1-2014

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Drawing Title:
AREA A EMERGENCY PANEL SCHEDULES

Approved: Project Director

Project Title
VA Charlotte
Health Care Center

Location
Charlotte, NC

Date 07/21/2014 | Checked RJA | Drawn BCE

Project Number SFO# VA-101-10-RP-0081
Building Number
Drawing Number **E611**
Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

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AHS3

Location: ELECTRICAL 3B19E
Supply From: TAP-AHS3
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 80 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SPARE	20 A	0	2940					20 A	L-CORRIDOR 3ACOR01	2	
	3	T-ALS3	35 A			200	0			20 A	SPARE	4	
	5							0	0	20 A	SPARE	6	
	7			0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	SPACE	--			0	0			--	-	16	--
--	17	SPACE	--					0	0	--	-	18	--
		Total Load:		2940 VA		200 VA		0 VA					
		Total Amps:		11 A		1 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	3321 VA	125.00%	4152 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	3521 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	4352 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	4 A
Equipment	200 VA	100.00%	200 VA	**Total Est. Demand:**	5 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALC3T

Location: TELECOM 3B01T
Supply From: T-ALC3T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	TCP-3A01 3B01T	20 A	250	540					20 A	R-TELCOMM 3B01T	2	
	3	L-TELCOMM 3B01T	20 A			384	540			20 A	R-TELCOMM 3B01T	4	
	5	R-TELECOM 3B01T	20 A					1250	1250	20 A	R-TELECOM 3B01T	6	
	7	R-TELECOM 3B01T	20 A	1250	50					20 A	FCU-3A01	8	
	9	R-TELECOM 3B01T	20 A			1250	50					10	
	11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 3B01T	12	
	13	R-TELECOM 3B01T	20 A	1250	1250					20 A	R-TELECOM 3B01T	14	
	15	R-TELECOM 3B01T	20 A			1250	0			20 A	SPARE	16	
	17	SPARE-BUILDING PANEL	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	20 A	SPARE	24	
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
		Total Load:		4590 VA		3474 VA		3750 VA					
		Total Amps:		39 A		29 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	384 VA	125.00%	480 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11814 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11935 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	33 A
Equipment	10250 VA	100.00%	10250 VA	**Total Est. Demand:**	33 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALC4T

Location: TELECOM 4B01T
Supply From: T-ALC4T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	TCP-4A01 4B01T	20 A	250	540					20 A	R-TELCOMM 4B01T	2	
	3	L-TELCOMM 4B01T	20 A			384	540			20 A	R-TELCOMM 4B01T	4	
	5	R-TELECOM 4B01T	20 A					1250	1250	20 A	R-TELECOM 4B01T	6	
	7	R-TELECOM 4B01T	20 A	1250	50					20 A	FCU-4A01	8	
	9	R-TELECOM 4B01T	20 A			1250	50					10	
	11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 4B01T	12	
	13	R-TELECOM 4B01T	20 A	1250	1250					20 A	R-TELECOM 4B01T	14	
	15	R-TELECOM 4B01T	20 A			1250	0			20 A	SPARE	16	
	17	SPARE-BUILDING PANEL	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	20 A	SPARE	24	
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
		Total Load:		4590 VA		3474 VA		3750 VA					
		Total Amps:		39 A		29 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	384 VA	125.00%	480 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11814 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11935 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	33 A
Equipment	10250 VA	100.00%	10250 VA	**Total Est. Demand:**	33 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALS3

Location: ELECTRICAL 3B19E
Supply From: T-ALS3
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	FAJB TELECOM 3B01T	20 A	100	100					20 A	FAJB TELECOM 3D04T	2	
	3	SPARE	20 A			0	0			20 A	SPARE	4	
	5	SPARE	20 A					0	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
		Total Load:		200 VA		0 VA		0 VA					
		Total Amps:		2 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	200 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	200 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	1 A
Equipment	200 VA	100.00%	200 VA	**Total Est. Demand:**	1 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AHS4

Location: ELECTRICAL 4B19E
Supply From: TAP-AHS4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 80 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-CORRIDOR 4ACOR08	20 A	2312	0					20 A	SPARE	2	
	3	T-ALS4	35 A			200	0			20 A	SPARE	4	
	5							0	0	20 A	SPARE	6	
	7			0	0					20 A	SPARE	8	
--	9	SPACE	--			0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	SPACE	--			0	0			--	-	16	--
--	17	SPACE	--					0	0	--	-	18	--
		Total Load:		2312 VA		200 VA		0 VA					
		Total Amps:		8 A		1 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	2591 VA	125.00%	3239 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	2791 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	3439 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	3 A
Equipment	200 VA	100.00%	200 VA	**Total Est. Demand:**	4 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALS4

Location: ELECTRICAL 4B19E
Supply From: T-ALS4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	FAJB TELECOM 4D03T	20 A	100	100					20 A	FAJB TELECOM 4B01T	2	
	3	SPARE	20 A			0	0			20 A	SPARE	4	
	5	SPARE	20 A					0	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
		Total Load:		200 VA		0 VA		0 VA					
		Total Amps:		2 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	200 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	200 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	1 A
Equipment	200 VA	100.00%	200 VA	**Total Est. Demand:**	1 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AHS3 ALC3T ALS4
ALS3 AHS4 ALC4T

ISSUED FOR CONSTRUCTION

Revisions:	Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI
CAVEO PROJECT: 13-2391
08/06/2014
8-1-2014

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Drawing Title:
AREA A EMERGENCY PANEL SCHEDULES

Approved: Project Director

Project Title
VA Charlotte
Health Care Center

Project Number
SFO# VA-101-10-RP-0081

Building Number

Location
Charlotte, NC

Drawing Number
E612

Date 07/21/2014 | Checked RJA | Drawn BCE | Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

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ALC4

Location: ELECTRICAL 4B19E
Supply From: T-ALC4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:
Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL
AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 150 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	R-ELECTRICAL 3B19E	20 A	540	180					20 A	R-EXAM 3B49	2	
	3	UC FRIDGE EXAM 3B49	20 A			180	180			20 A	R-CRASH CART 3B23	4	
	5	FRIDGE MED 3B22	20 A					180	540	20 A	R-ELECTRICAL 4B19E	6	
	7	R-MED 3B22	20 A	180	960					20 A	UC FRIDGE ABG LAB 4B69	8	
	9	FRIDGE MED 4C21	20 A			960	180			20 A	R-MED 4C21	10	
	11	SPARE	20 A					0	1332	20 A	R-LAB 4A13	12	
	13	UC FRIDGE MED 4B43	20 A	180	180					20 A	R-MED 4B43	14	
	15	SPARE	20 A			0	360			20 A	R-TREATMENT 4B34	16	
	17	R-TREATMENT 4B34	20 A					240	540	20 A	R-ROOM 4A11, 4A09, 4A08	18	
	19	R-ROOM 4A25, 4A29, 4A27	20 A	540	540					20 A	R-OPERATORY 4A25	20	
	21	R-OPERATORY 4A11	20 A			540	540			20 A	R-OPERATORY 4A27	22	
	23	R-OPERATORY 4A09	20 A					540	540	20 A	R-HYGIENE 4A08	24	
	25	R-HYGIENE 4A29	20 A	540	540					20 A	R-ROOM 4A36, 4A34, 4A35	26	
	27	R-ROOM 4A26, 4A28	20 A			360	360			20 A	R-ROOM 4A37, 4A24	28	
	29	R-OPERATORY 4A24	20 A					540	540	20 A	R-OPERATORY 4A37	30	
	31	R-OPERATORY 4A26	20 A	540	540					20 A	R-OPERATORY 4A36	32	
	33	R-OPERATORY 4A28	20 A			540	540			20 A	R-OPERATORY 4A35	34	
	35	R-HYGIENE 4A34	20 A					540	1204	20 A	L-ROOM 4A37, 4A36, 4A35, 4A34,...	36	
	37	L-ROOM 4A37, 4A36, 4A35, 4A34,...	20 A	1095	570					20 A	BOOM LIGHTS ROOM 4A25, 4A2...	38	
	39	BOOM LIGHTS ROOM 4A26, 4A2...	20 A			475	190			20 A	BOOM LIGHT OPERATORY 4A24	40	
	41	DENTAL DELIVERY SYS. 4A24	20 A					500	500	20 A	DENTAL DELIVERY SYS. 4A37	42	
	43	DELIVERY SYS. OPERATORY...	20 A	500	500					20 A	DELIVERY SYS. OPERATORY...	44	
	45	DELIVERY SYS. OPERATORY...	20 A			500	500			20 A	DELIVERY SYS. OPERATORY...	46	
	47	DELIVERY SYS. HYGIENE 4A34	20 A					500	500	20 A	DELIVERY SYS. HYGIENE 4A29	48	
	49	DELIVERY SYS. HYGIENE 4A08	20 A	500	500					20 A	DELIVERY SYS. OPERATORY...	50	
	51	DELIVERY SYS. OPERATORY...	20 A			500	500			20 A	DELIVERY SYS. OPERATORY...	52	
	53	DELIVERY SYS. OPERATORY...	20 A					500	150	20 A	FCU-3A02,3A03,4A02	54	
	55	SPARE	20 A	0	150							56	
	57	SPARE	20 A			0	0			20 A	SPARE	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
	67	SPARE	20 A	0	0					20 A	SPARE	68	
	69	SPARE	20 A			0	0			20 A	SPARE	70	
	71	SPARE	20 A					0	0	20 A	SPARE	72	
	73	SPARE	20 A	0	0					20 A	SPARE	74	
	75	SPARE	20 A			0	0			20 A	SPARE	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
--	79	SPACE	--	0	0					--	SPACE	80	--
--	81	SPACE	--			0	0			--	SPACE	82	--
--	83	SPACE	--					0	0	--	SPACE	84	--
			Total Load:	9275 VA		7405 VA		9386 VA					
			Total Amps:	80 A		62 A		81 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	3594 VA	125.00%	4493 VA		
Receptacle	12492 VA	90.03%	11246 VA	**Total Conn. Load:**	26066 VA
Motor	300 VA	108.33%	325 VA	**Total Est. Demand:**	24820 VA
Appliance	2640 VA	65.00%	1716 VA	**Total Conn.:**	72 A
Equipment	7040 VA	100.00%	7040 VA	**Total Est. Demand:**	69 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AHS5

Location: ELECTRICAL 5B28E
Supply From: TAP-AHS4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:
Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY
AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 80 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-ROOM 6B03, 6B02	20 A	652	0					20 A	SPARE	2	
	3	L-ROOM 5CCOR10, 5CCOR14,...	20 A			1692	0			20 A	SPARE	4	
	5							680	0	20 A	SPARE	6	
	7	T-ALS5	35 A	1100	0					20 A	SPARE	8	
	9					1100	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	SPACE	--			0	0			--	-	16	--
--	17	SPACE	--					0	0	--	-	18	--
			Total Load:	1752 VA		2792 VA		680 VA					
			Total Amps:	7 A		11 A		2 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	2411 VA	125.00%	3014 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	5294 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	5897 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	6 A
Equipment	1880 VA	100.00%	1880 VA	**Total Est. Demand:**	7 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALC5

Location: ELECTRICAL 5B28E
Supply From: T-ALC5
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.
Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL
AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 150 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	R-ANESTH WORK/ EQ STO 5B21	20 A	180	828					20 A	SD-5 HEPA FILTER 5B12	2	
	3	SD-5 HEPA FILTER 5B06	20 A			828	540			20 A	R-COMM CENTER 5B19	4	
	5	OMNICELLS CLEAN CORE 5B07	20 A					360	540	20 A	R-ELECTRICAL 5B28E	6	
	7	FRIDGE ANESTH WORK/ EQ ST...	20 A	588	720					20 A	R-CLEAN CORE 5B07	8	
	9	FREEZER 5B36	20 A			667	820			20 A	R-COMM CENTER 5B19	10	
	11	FREEZER 5B36	20 A					667	828	20 A	SD-5 HEPA FILTER 5B03	12	
	13	SPARE	20 A	0	1200					20 A	ANESTHESIA APPARATUS 5B21	14	
	15	SD-5 HEPA FILTER 5B12	20 A			828	0			20 A	SPARE	16	
	17	APPLIANCE FRZN SECT LAB 5B35	20 A					900	0	20 A	SPARE	18	
	19	R-ANESTH WORK/ EQ STO 5B21	20 A	860	828					20 A	SD-5 HEPA FILTER 5B03	20	
	21	AUTODOORS PRE-POST OP	20 A			900	1140			20 A	HYPOTHERMIA UNIT CLEAN...	22	
	23	ANESTHESIA APPARATUS 5B21	20 A					1200	1100	20 A	WARMER CABINET CLEAN COR...	24	
	25	RO SYSTEM SUBSTERILE AREA...	20 A	1152	200					20 A	FCU-5A02,5A03	26	
	27	WARMER CABINET CLEAN COR...	20 A			1100	200					28	
	29	SD-5 HEPA FILTER 5B03	20 A					828	828	20 A	SD-5 HEPA FILTER 5B12	30	
	31	R-ANESTH WORK/ EQ STO 5B21	20 A	360	0					20 A	SPARE	32	
	33	R-CLEAN CORE 5B07	20 A			360	0			20 A	SPARE	34	
	35	R-CLEAN CORE 5B07	20 A					360	1440	20 A	STERILIZER SUBSTERILE AREA...	36	
	37	ANESTH MED. 5B21	20 A	500	828					20 A	SD-5 HEPA FILTER 5B06	38	
	39	ANESTHESIA MED. 5B21	20 A			500	600			20 A	AUTODOORS OPERATING...	40	
	41	VAV XFMR CP 5BCOR08	20 A					500	600	20 A	AUTODOORS OR CORRIDOR	42	
	43	SD-5 HEPA FILTER 5B06	20 A	828	600					20 A	AUTODOORS SOUTH ORS	44	
	45	SD-5 HEPA FILTER 5B12	20 A			828	200			20 A	SCRUB MONITOR ROOM 5B24....	46	
	47	SD-5 HEPA FILTER 5B15	20 A					828	0	20 A	SPARE	48	
	49	SD-5 HEPA FILTER 5B15	20 A	828	0					20 A	SPARE	50	
	51	SD-5 HEPA FILTER 5B15	20 A			828	0			20 A	SPARE	52	
	53	SD-5 HEPA FILTER 5B15	20 A					828	0	20 A	SPARE	54	
	55	SD-5 HEPA FILTER 5B03	20 A	828	0					20 A	SPARE	56	
	57	SD-5 HEPA FILTER 5B06	20 A			828	0			20 A	SPARE	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
	67	SPARE	20 A	0	0					20 A	SPARE	68	
	69	SPARE	20 A			0	0			20 A	SPARE	70	
	71	SPARE	20 A					0	0	20 A	SPARE	72	
--	73	SPACE	--	0	0					--	SPACE	74	--
--	75	SPACE	--			0	0			--	SPACE	76	--
--	77	SPACE	--					0	0	--	SPACE	78	--
--	79	SPACE	--	0	0					--	SPACE	80	--
--	81	SPACE	--			0	0			--	SPACE	82	--
--	83	SPACE	--					0	0	--	SPACE	84	--
			Total Load:	11328 VA		11167 VA		11807 VA					
			Total Amps:	95 A		93 A		99 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	5000 VA	100.00%	5000 VA	**Total Conn. Load:**	34302 VA
Motor	3100 VA	102.42%	3175 VA	**Total Est. Demand:**	33813 VA
Appliance	2822 VA	80.00%	2258 VA	**Total Conn.:**	95 A
Equipment	23380 VA	100.00%	23380 VA	**Total Est. Demand:**	94 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALS5

Location: ELECTRICAL 5B28E
Supply From: T-ALS5
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:
Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY
AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	FAJB TELECOM 5B45T	20 A	100	100					20 A	FAJB TELECOM 5D04T	2
3	AREA ALARM PANEL-11	20 A			120	120			20 A	AREA ALARM PANEL-12	4
5	AREA ALARM PANEL-13	20 A					120	120	20 A	AREA ALARM PANEL-2	6
7	AREA ALARM PANEL-10	20 A	120	120					20 A	AREA ALARM PANEL-9	8
9	MEDICAL ALARM PANEL-2	20 A			120	120			20 A	AREA ALARM PANEL-7	10
11	MEDICAL ALARM PANEL-3	20 A					120	120	20 A	AREA ALARM PANEL-8	12
13	AREA ALARM PANEL-6	20 A	120	120					20 A	AREA ALARM PANEL-3	14
15	AREA ALARM PANEL-4	20 A			120	500			20 A	OTHER ELEV CTRL RM 6D05	16
17	AREA ALARM PANEL-5	20 A					120	0	20 A	SPARE	18
19	OTHER ELEVATOR EQUIP. 6B03	20 A	0	0					20 A	SPARE	20
21	OTHER ELEVATOR EQUIP. 6B03	20 A			0	0			20 A	SPARE	22
23	OTHER ELEV CTRL RM 6D05	20 A					500	0	20 A	SPARE	24
25	SPARE	20 A	0	0					20 A	SPARE	26
27	SPARE	20 A			0	0			20 A	SPARE	28
29	SPARE	20 A					0	0	20 A	SPARE	30
		Total Load:	680 VA		1100 VA		1100 VA				
		Total Amps:	6 A		10 A		10 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	2880 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	2880 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	8 A
Equipment	1880 VA	100.00%	1880 VA	**Total Est. Demand:**	8 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

ALC5T

Location: TELECOM 5B45T
Supply From: T-ALC5T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:
Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL
AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	TCP-5A01 5B45T	20 A	250	576					20 A	L-TELCOMM 5B45T	2	
	3	R-TELCOMM 5B45T	20 A			540	540			20 A	R-TELCOMM 5B45T	4	
	5	R-TELECOM 5B45T	20 A					1250	1250	20 A	R-TELECOM 5B45T	6	
	7	R-TELECOM 5B45T	20 A	1250	50					20 A	FCU-5A01	8	
	9	R-TELECOM 5B45T	20 A			1250	50					10	
	11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 5B45T	12	
	13	R-TELECOM 5B45T	20 A	1250	1250					20 A	R-TELECOM 5B45T	14	
	15	R-TELECOM 5B45T	20 A			1250	0			20 A	SPARE	16	
	17	SPARE-BUILDING PANEL	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	20 A	SPARE	24	
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	4626 VA		3630 VA		3750 VA					
			Total Amps:	39 A		30 A		31 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	576 VA	125.00%	720 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	12006 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	12175 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	33 A
Equipment	10250 VA	100.00%	10250 VA	**Total Est. Demand:**	34 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

AHC5

Location: ELECTRICAL 5B28E
Supply From: ATS-CR2
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:
Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: CRITICAL
AIC Rating: 14,000
Mains Type: MLO
Bus Rating: 400 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			8253	3800					30 A	T-C-ISO-5B06	2	[1]
	3	T-ALC4	70 A			7405	3203					4	
	5							8270	2123	20 A	L-ROOM 5B12, 5B13	6	
[1]	7	T-C-ISO-5B03	30 A	3900	11328					70 A	T-ALC5	8	
	9					3103	11167					10	
[1]	11	T-C-ISO-5B15	30 A					3883	11807			12	
	13			3120	1860					30 A	T-C-ISO-5C18	14	[1]
	15	L-ROOM 5B19, 5B15	20 A			1993	1083					16	
	17	L-ROOM 5B06, 5B04	20 A					2026	1951	20 A	L-GENERAL OP RM 5B03	18	
	19	L-CYSTO OP 5C18	20 A	3078	3192					20 A	L-ROOM 5D47, 5C23, 5D48, 5C11...	20	
[1]	21	T-C-ISO-5B12	30 A			2343	17800					22	
	23							3220	18234	125 A	T-BLC5	24	
	25	SPARE	20 A	0	18208							26	
	27	SPARE	20 A			0	0			20 A	SPARE	28	
	29	SPARE	20 A					0	0	20 A	SPARE	30	
	31			9561	0					--	SPACE - 3 POLE	32	--
	33	STEAM STERILIZER AREA 5B13	50 A			9561	0			--	-	34	--
	35							9561	0	--	-	36	--
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
			Total Load:	66300 VA		57658 VA		61075 VA					
			Total Amps:	241 A		208 A		222 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	20641 VA	125.00%	25802 VA		
Receptacle	64092 VA	57.80%	37046 VA	**Total Conn. Load:**	187980 VA
Motor	6600 VA	101.14%	6675 VA	**Total Est. Demand:**	159352 VA
Appliance	19478 VA	65.00%	12661 VA	**Total Conn.:**	226 A
Equipment	77169 VA	100.00%	77169 VA	**Total Est. Demand:**	192 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:
1. PROVIDE ADJUSTABLE TRIP CIRCUIT BREAKER TO COORDINATE WITH ISOLATION PANEL BRANCH CIRCUIT BREAKERS.

ALC4 AHS5 ALC5
ALC5T ALS5
AHC5

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title: **AREA A EMERGENCY PANEL SCHEDULES**
Approved: Project Director
Project Title: VA Charlotte Health Care Center
Project Number: SFO# VA-101-10-RP-0081
Building Number
Location: Charlotte, NC
Drawing Number: **E613**
Date: 07/21/2014 Checked: RJA Drawn: BCE
Dwg. of
U.S. Department of Veterans Affairs

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VA FORM 08-6231

AHQP

Location: ELECTRICAL 6B02E
Supply From: BHQP
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: EQUIPMENT

AIC Rating: 14,000
Mains Type: MLO
Bus Rating: 400 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			2097	903							2	
	3	T-ALQP	35 A			2020	903			15 A	EF-6A08A	4	
	5							2290	903			6	
	7			0	3107							8	
[2]	9	EF-6A08B	15 A			0	3107			25 A	CU-6A03	10	
	11							0	3107			12	
	13			1886	3107							14	
	15	CU-6A01	20 A			1886	3107			25 A	CU-6A02	16	
	17							1886	3107			18	
--	19	SPACE	--	0	6108							20	
--	21	SPACE	--			0	6108			60 A	AHU-7-R1 RETURN FAN	22	
--	23	SPACE	--					0	6108			24	
	25			6108	11686							26	
	27	AHU-7-R2 RETURN FAN 6B04	60 A			6108	11686			70 A	AHU-7-S1 SUPPLY FAN	28	
	29							6108	11686			30	
	31			797	15119							32	
	33	EF-6A04	15 A			797	15119			60 A	ELEV-5	34	[1]
	35							797	15119			36	
	37			797	11686							38	
	39	EF-6A05	15 A			797	11686			70 A	AHU-7-S2 SUPPLY FAN-2	40	
	41							797	11686			42	
--	43	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	44	--
--	45	-	--			0	0			--	-	46	--
--	47	-	--					0	0	--	-	48	--
--	49	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	50	--
--	51	-	--			0	0			--	-	52	--
--	53	-	--					0	0	--	-	54	--
			Total Load:	63400 VA		63323 VA		63593 VA					
			Total Amps:	229 A		229 A		230 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	111 VA	125.00%	139 VA		
Receptacle	1800 VA	100.00%	1800 VA	**Total Conn. Load:**	190317 VA
Motor	141098 VA	106.21%	149862 VA	**Total Est. Demand:**	199109 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	229 A
Equipment	1950 VA	100.00%	1950 VA	**Total Est. Demand:**	239 A
Heating	0 VA	0.00%	0 VA		
Elevator	45358 VA	100.00%	45358 VA		

Notes:
1. PROVIDE SHUNT TRIP CIRCUIT BREAKER.
2. REDUNDANT MOTOR WILL NOT OPERATE AT THE SAME TIME AS ITS COUNTERPART.

C-ISO-5B03

Location:
Supply From: AHC5
Mounting: Surface
Enclosure: Type 1
Branch: CRITICAL
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MAIN CIRCUIT BREAKER SHALL SELECTIVELY COORDINATE WITH BRANCH CIRCUIT BREAKERS.

Pri. AIC Rating: 14,000
Primary Volts: 480 V
Phases: 1
Primary Wires: 2#10 (L-L)
Primary MCB: 30 A

Iso-Transformer: 10kVA
Secondary Volts: 120 V
Phases: 1
Wires: 2 (L-L)
Secondary MCB: 0 A

CKT	Circuit Description	Trip	L1		L2		Trip	Circuit Description	CKT
1	R-GENERAL OP RM 5B03	20 A	360	360			20 A	R-GENERAL OP RM 5B03	2
3	R-GENERAL OP RM 5B03	20 A			360	360	20 A	R-GENERAL OP RM 5B03	4
5	R-GENERAL OP RM 5B03	20 A	460	360			20 A	R-GENERAL OP RM 5B03	6
7	R-GENERAL OP RM 5B03	20 A			360	360	20 A	R-GENERAL OP RM 5B03	8
9	R-GENERAL OP RM 5B03	20 A	360	1800			20 A	EQUIPMENT GENERAL OP RM 5B03	10
11	EQUIPMENT GENERAL OP RM 5B03	20 A			1000	183	20 A	R-GENERAL OP RM 5B03	12
13	SPARE	20 A	0	200			20 A	BOOM LIGHT GENERAL OP RM 5B03	14
15	SPARE	20 A			0	480	20 A	TABLE WAITING AREA 4B38	16
		Total Load:	3900 VA		3103 VA				
		Total Amps:	33 A		26 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	200 VA	125.00%	250 VA		
Receptacle	3420 VA	100.00%	3420 VA	**Total Conn. Load:**	7003 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	7053 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	29 A
Equipment	3383 VA	100.00%	3383 VA	**Total Est. Demand:**	29 A
Heating	0 VA	0.00%	0 VA		

Notes:

C-ISO-5B06

Location:
Supply From: AHC5
Mounting: Surface
Enclosure: Type 1
Branch: CRITICAL
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MAIN CIRCUIT BREAKER SHALL SELECTIVELY COORDINATE WITH BRANCH CIRCUIT BREAKERS.

Pri. AIC Rating: 14,000
Primary Volts: 480 V
Phases: 1
Primary Wires: 2#10 (L-L)
Primary MCB: 30 A

Iso-Transformer: 10kVA
Secondary Volts: 120 V
Phases: 1
Wires: 2 (L-L)
Secondary MCB: 0 A

CKT	Circuit Description	Trip	L1		L2		Trip	Circuit Description	CKT
1	R-GENERAL OP RM 5B06	20 A	360	360			20 A	R-GENERAL OP RM 5B06	2
3	R-GENERAL OP RM 5B06	20 A			360	360	20 A	R-GENERAL OP RM 5B06	4
5	R-GENERAL OP RM 5B06	20 A	360	360			20 A	R-GENERAL OP RM 5B06	6
7	R-GENERAL OP RM 5B06	20 A			360	460	20 A	R-GENERAL OP RM 5B06	8
9	R-GENERAL OP RM 5B06	20 A	360	1800			20 A	EQUIPMENT GENERAL OP RM 5B06	10
11	EQUIPMENT GENERAL OP RM 5B06	20 A			1000	183	20 A	R-GENERAL OP RM 5B06	12
13	SPARE	20 A	0	200			20 A	BOOM LIGHT GENERAL OP RM 5B06	14
15	SPARE	20 A			0	480	20 A	TABLE GROUP 4B35	16
		Total Load:	3800 VA		3203 VA				
		Total Amps:	32 A		27 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	200 VA	125.00%	250 VA		
Receptacle	3420 VA	100.00%	3420 VA	**Total Conn. Load:**	7003 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	7053 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	29 A
Equipment	3383 VA	100.00%	3383 VA	**Total Est. Demand:**	29 A
Heating	0 VA	0.00%	0 VA		

Notes:

ALQP

Location: ELECTRICAL 6B02E
Supply From: T-ALQP
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: EQUIPMENT

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
1	VAV-XFMR CP VEST 6B01	20 A	100	471					20 A	R-L-ELEV 5-6	2	
3	SPARE	20 A			0	500			20 A	TCP-6A01&6A02 6B04	4	
5	DX-6A05 6B04	20 A					250	540	20 A	R-ELECTRICAL 6B01E	6	
7	EF-6A01	20 A	506	920					20 A	EF-2A01	8	
9	SPARE	20 A			0	920					10	
11	R-MECHANICAL 6B03	20 A					720	0	20 A	SPARE	12	
13	SPARE	20 A	0	0					20 A	SPARE	14	
15	SPARE	20 A			0	0			20 A	SPARE	16	
17	FCU-6A01,6A02	20 A					100	500	20 A	TCP-6A03&6A04 6B04	18	
19			100	0					20 A	SPARE	20	
21	H-7 HUMIDIFIER FOR AHU-7	20 A			600	0			20 A	SPARE	22	
23	RECEPTACLE ELEVATOR EQUI...	20 A					180	0	20 A	SPARE	24	
25	SPARE	20 A	0	0					--	SPACE	26	--
27	SPARE	20 A			0	0			--	SPACE	28	--
29	SPARE	20 A					0	0	--	SPACE	30	--
		Total Load:	2097 VA		2020 VA		2290 VA					
		Total Amps:	18 A		17 A		19 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	111 VA	125.00%	139 VA		
Receptacle	1800 VA	100.00%	1800 VA	**Total Conn. Load:**	6407 VA
Motor	2546 VA	118.07%	3006 VA	**Total Est. Demand:**	6895 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	18 A
Equipment	1950 VA	100.00%	1950 VA	**Total Est. Demand:**	19 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

C-ISO-5B12

Location:
Supply From: AHC5
Mounting: Surface
Enclosure: Type 1
Branch: CRITICAL
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MAIN CIRCUIT BREAKER SHALL SELECTIVELY COORDINATE WITH BRANCH CIRCUIT BREAKERS.

Pri. AIC Rating: 14,000
Primary Volts: 480 V
Phases: 1
Primary Wires: 2#10 (L-L)
Primary MCB: 30 A

Iso-Transformer: 10kVA
Secondary Volts: 120 V
Phases: 1
Wires: 2 (L-L)
Secondary MCB: 0 A

CKT	Circuit Description	Trip	L1		L2		Trip	Circuit Description	CKT
1	R-GENERAL OP RM 5B12	20 A	360	360			20 A	R-GENERAL OP RM 5B12	2
3	R-GENERAL OP RM 5B12	20 A			360	360	20 A	R-GENERAL OP RM 5B12	4
5	R-GENERAL OP RM 5B12	20 A	360	360			20 A	R-GENERAL OP RM 5B12	6
7	R-GENERAL OP RM 5B12	20 A			460	360	20 A	R-GENERAL OP RM 5B12	8
9	R-GENERAL OP RM 5B12	20 A	360	360			20 A	R-GENERAL OP RM 5B12	10
11	L-GENERAL OP RM 5B12	20 A			200	1000	20 A	EQUIPMENT BOOM GENERAL OP RM 5B12	12
13	SPARE	20 A	0	183			20 A	R-GENERAL OP RM 5B12	14
15	SPARE	20 A			0	480	20 A	TABLE EXAM 4B29	16
		Total Load:	2343 VA		3220 VA				
		Total Amps:	20 A		27 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	200 VA	125.00%	250 VA		
Receptacle	3780 VA	100.00%	3780 VA	**Total Conn. Load:**	5563 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	5613 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	23 A
Equipment	1583 VA	100.00%	1583 VA	**Total Est. Demand:**	23 A
Heating	0 VA	0.00%	0 VA		

Notes:

C-ISO-5B15

Location:
Supply From: AHC5
Mounting: Surface
Enclosure: Type 1
Branch: CRITICAL
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MAIN CIRCUIT BREAKER SHALL SELECTIVELY COORDINATE WITH BRANCH CIRCUIT BREAKERS.

Pri. AIC Rating: 14,000
Primary Volts: 480 V
Phases: 1
Primary Wires: 2#10 (L-L)
Primary MCB: 30 A

Iso-Transformer: 10kVA
Secondary Volts: 120 V
Phases: 1
Wires: 2 (L-L)
Secondary MCB: 0 A

CKT	Circuit Description	Trip	L1		L2		Trip	Circuit Description	CKT
1	R-GENERAL OP RM 5B15	20 A	183	360			20 A	R-GENERAL OP RM 5B15	2
3	BOOM LIGHT-GENERAL OP RM 5B15	20 A			200	360	20 A	R-GENERAL OP RM 5B15	4
5	EQUIPMENT GENERAL OP RM 5B15	20 A	1800	360			20 A	R-GENERAL OP RM 5B15	6
7	R-GENERAL OP RM 5B15	20 A			360	480	20 A	TABLE-GENERAL OP 5B15	8
9	R-GENERAL OP RM 5B15	20 A	460						10
11	EQUIPMENT GENERAL OP RM 5B15	20 A			1000	360	20 A	R-GENERAL OP RM 5B15	12
13	SPARE	20 A	0	360			20 A	R-GENERAL OP RM 5B15	14
15	SPARE	20 A			0	360	20 A	R-GENERAL OP RM 5B15	16
		Total Load:	3883 VA		3120 VA				
		Total Amps:	32 A		26 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	200 VA	125.00%	250 VA		
Receptacle	3420 VA	100.00%	3420 VA	**Total Conn. Load:**	7003 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	7053 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	29 A
Equipment	3383 VA	100.00%	3383 VA	**Total Est. Demand:**	29 A
Heating	0 VA	0.00%	0 VA		

Notes:

AHQP C-ISO-5B03 C-ISO-5B06
ALQP C-ISO-5B12 C-ISO-5B15

ISSUED FOR CONSTRUCTION

Revisions:	Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 CAVEO ENGINEERING P-0391 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title:
AREA A EMERGENCY PANEL SCHEDULES

Approved: Project Director

Project Title: VA Charlotte Health Care Center
Project Number: SFO# VA-101-10-RP-0081
Building Number:
Location: Charlotte, NC
Drawing Number: **E614**
Date: 07/21/2014
Checked: RJA
Drawn: BCE
Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

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BHGB

Location: ELECTRICAL 0D37E
Supply From: TAP-BHGB
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 18,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 70 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-STO. NON-MEDICAL-1 0C23-1	20 A	1682	2757					20 A	L-ROOM 0B46-1, 0C21, 0C23,...	2	
	3	SPARE	20 A			0	3224			20 A	L-ROOM 0B40-1, 0C01, 0C04,...	4	
	5	SPARE	20 A					0	1431	20 A	L-ROOM 0DCOR02, 0CCOR03-1,...	6	
	7	L-ROOM 0D36, 0D34, 0D33, 0D35...	20 A	3020	1832					20 A	L-ROOM 0D39E, 0D41, 0D22R,...	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
	11	SPARE	20 A					0	0	20 A	SPARE	12	
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	9291 VA		3224 VA		1431 VA					
			Total Amps:	35 A		13 A		5 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	14879 VA	125.00%	18599 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	14879 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	18599 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	18 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	22 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BHGA

Location: ELECTRICAL 0D37E
Supply From: A-SWGR
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 18,000
Mains Type: MLO
Bus Rating: 600 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			16529	0					--	SPACE	2	--
	3	T-BLGB	125 A			17546	0			--	SPACE	4	--
	5							16020	24278			6	
--	7	SPACE	--	0	13347					125 A	TAP-BHGB	8	
--	9	SPACE	--			0	4793					10	
	11							15188	18788			12	
	13	T-BL1B	125 A	16216	20622					125 A	T-BL1A	14	
	15					17400	19920					16	
	17							20666	0	--	SPACE	18	--
	19	T-BL2B	125 A	21640	23626							20	
	21					21046	24020			125 A	T-BL2A	22	
--	23	SPACE	--					0	23340			24	
--	25	SPACE	--	0	504							26	
	27					26552	504			20 A	LD-1 LOADING DOCK-1 5B106	28	
	29	T-BLGA	125 A					29120	504			30	
	31			26320	667							32	
	33					504	667			20 A	SL-1 SCISSORS LIFT-1 5B106	34	
	35	LD-2 LOADING DOCK-2 5B106	20 A					504	667			36	
	37			504	0					--	SPACE - 3POLE	38	--
--	39	SPACE	--			0	0			--	-	40	--
--	41	SPACE	--					0	0	--	-	42	--
--	43	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	44	--
--	45	-	--			0	0			--	-	46	--
--	47	-	--					0	0	--	-	48	--
--	49	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	50	--
--	51	-	--			0	0			--	-	52	--
--	53	-	--					0	0	--	-	54	--
			Total Load:	139974 VA		132953 VA		149075 VA					
			Total Amps:	509 A		480 A		542 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	48640 VA	125.00%	60801 VA		
Receptacle	244766 VA	52.04%	127383 VA	**Total Conn. Load:**	430518 VA
Motor	9110 VA	107.43%	9787 VA	**Total Est. Demand:**	312533 VA
Appliance	38398 VA	65.00%	24959 VA	**Total Conn.:**	518 A
Equipment	88847 VA	100.00%	88847 VA	**Total Est. Demand:**	376 A
Heating	256 VA	100.00%	256 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BLGA

Location: ELECTRICAL 0D37E
Supply From: T-BLGA
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	SINK SENSORS	20 A	2	180					20 A	APPLIANCE STAFF LOUNGE 0D19	2
3	FAJB TELECOM 0D09T	20 A			100	180			20 A	CHEM ANALYZER CLINICAL LAB...	4
5	CUH-1,CUH-2 CABINET UNIT...	20 A					128	210	20 A	ANALYZER HEMOTOLOGY...	6
7	ROOM 0D18, 0D11-1	20 A	230	540					20 A	FRIDGE STAFF LOUNGE 0D19	8
9	R-CONFWORK 0D31	20 A			380	600			20 A	R-CLINICAL LAB-1 0D11-1	10
11	R-STAFF LOUNGE 0D19	20 A					466	600	20 A	R-OFFICE SUPV. 0D33	12
13	R-CLINICAL LAB-1 0D11-1	20 A	680	720					20 A	R-CLINICAL LAB-1 0D11-1	14
15	PIPETTOR CLINICAL LAB-1 0D11-1	20 A			700	780			20 A	PLUGMOLD CLINICAL LAB-1....	16
17	R-AMB. CANOPY-1 0D42-1	20 A					720	780	20 A	R-CLINICAL LAB-1 0D11-1	18
19	R-ELEVATOR MACH 0D01	20 A	900	960					20 A	R-CLINICAL LAB-1 0D11-1	20
21	R-ROOM 0D16-1, 0D17	20 A			900	1040			20 A	R-OPEN OFFICE SCANNING 0D32	22
23	R-CLINICAL LAB-1 0D11-1	20 A					960	1200	20 A	MICROWAVE STAFF LOUNGE...	24
25	R-CLINICAL LAB-1 0D11-1	20 A	1200	1440					20 A	PLUGMOLD CLINICAL LAB-1....	26
27	COPIER FILE / WORK ROOM 0D36	20 A			1500	1620			20 A	PLUGMOLD	28
29	R-CLINICAL LAB-1 0D11-1	20 A					1400	1536	20 A	STACKERS MAIL ROOM 0C24	30
31	PLUGMOLD CLINICAL LAB-1....	20 A	1440	1500					20 A	COFFEE STAFF LOUNGE 0D19	32
33	PLUGMOLD CLINICAL LAB-1....	20 A			1800	180			20 A	R-CLINICAL LAB-1 0D11-1	34
35	PLUGMOLD CLINICAL LAB-1....	20 A					1620	180	20 A	R-CLINICAL LAB-1 0D11-1	36
37	R-CLINICAL LAB-1 0D11-1	20 A	180	180					20 A	CHEM ANALYZER CLINICAL LAB...	38
39	CHEM ANALYZER CLINICAL LAB...	20 A			180	360			20 A	R-SEC 0D26	40
41	CHEM ANALYZER CLINICAL LAB...	20 A					180	360	20 A	R-SECRETARY 0D26	42
43	R-OFFICE SUPV. 0D33	20 A	360	600					20 A	R-CHIEF TECH. 0D25	44
45	R-CHIEF TECH. 0D25	20 A			360	540			20 A	R-ROOM 0DCOR01, 0D08	46
47	R-CLINICAL LAB-1 0D11-1	20 A					360	540	20 A	R-ROOM 0DCOR09, 0D32	48
49	R-OPEN OFFICE CODING 0D35	20 A	540	540					20 A	R-C-SWGR 0D28	50
51	R-CLINICAL LAB-1 0D11-1	20 A			540	700			20 A	PIPETTOR CLINICAL LAB-1 0D11-1	52
53	R-CLINICAL LAB-1 0D11-1	20 A					540	700	20 A	PIPETTOR CLINICAL LAB-1 0D11-1	54
55	PIPETTOR CLINICAL LAB-1 0D11-1	20 A	700	720					20 A	R-LESSOR WORK AREA 0D02	56
57	R-LESSOR WORK AREA 0D02	20 A			720	720			20 A	R-DEMARC 0D41	58
59	R-TELCOMM 0D09T	20 A					900	720	20 A	R-ELECTRICAL 0D37E	60
61	R-CONFWORK 0D31	20 A	720	540					20 A	R-OPEN OFFICE CODING 0D35	62
63	R-OPEN OFFICE CODING 0D35	20 A			540	540			20 A	R-OPEN OFFICE CODING 0D35	64
65	R-OPEN OFFICE CODING 0D35	20 A					540	540	20 A	R-OPEN OFFICE CODING 0D35	66
67	R-OPEN OFFICE CODING 0D35	20 A	540	960					20 A	R-HIMS CHIEF 0D34	68
69	R-OFFICE 0D71	20 A			960	1080			20 A	R-ROOM 0D27, 0DCOR03,...	70
71	SHREDDER FILE / WORK ROOM...	20 A					960	1080	20 A	R-ROOM 0D36, 0D32	72
73	PLUGMOLD	20 A	1080	1800					20 A	PLUGMOLD CLINICAL LAB-1....	74
75	PLUGMOLD CLINICAL LAB-1....	20 A			1800	1800			20 A	PLUGMOLD CLINICAL LAB-1....	76
77	R-CLINICAL LAB-1 0D11-1	20 A					1800	1800	20 A	PLUGMOLD CLINICAL LAB-1....	78
79	PLUGMOLD CLINICAL LAB-1....	20 A	1800	4000					50 A	MULTICHANNEL ANALYSER CLINICAL LAB-1 0D11-1	80
81	MULTICHANNEL ANALYSER CLINICAL LAB-1 0D11-1	50 A			4000	4000					82
83							4000	1500	20 A	MULTICHANNEL ANALYSER CLINICAL LAB-1 0D11-1	84
85	UC UNIT COOLER REF. STORAG...	20 A	0	1500							86
87	POWER REF. STORAGE 0D18	20 A			500	0			20 A	SPARE	88
89	SPARE	20 A					0	0	20 A	SPARE	90
91	SPARE	20 A	0	0					20 A	SPARE	92
93	SPARE	20 A			0	0			20 A	SPARE	94
95	SPARE	20 A					0	0	20 A	SPARE	96
97	SPARE	20 A	0	0					20 A	SPARE	98
99	SPARE	20 A			0	0			20 A	SPARE	100
101	SPARE	20 A					0	0	20 A	SPARE	102
103	SPARE	20 A	0	0					20 A	SPARE	104
105	SPARE	20 A			0	0			20 A	SPARE	106
107	SPARE	20 A					0	0	20 A	SPARE	108
109	SPARE	20 A	0	0					20 A	SPARE	110
111	SPARE	20 A			0	0			20 A	SPARE	112
113	SPARE	20 A					0	0	20 A	SPARE	114
115	SPARE	20 A	0	0					20 A	SPARE	116
117	SPARE	20 A			0	0			20 A	SPARE	118
119	SPARE	20 A					0	0	--	SPACE	120
121	SPACE	--	0	0					--	SPACE	122
123	SPACE	--			0	0			--	SPACE	124
125	SPACE	--					0	0	--	SPACE	126
		Total Load:	26552 VA		29120 VA		26320 VA				
		Total Amps:	222 A		243 A		219 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	50 VA	125.00%	63 VA		
Receptacle	55556 VA	59.00%	32778 VA	**Total Conn. Load:**	81992 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	58543 VA
Appliance	3420 VA	80.00%	2736 VA	**Total Conn.:**	228 A
Equipment	22338 VA	100.00%	22338 VA	**Total Est. Demand:**	162 A
Heating	128 VA	100.00%	128 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BHGC

Location: MECHANICAL 0B44
Supply From: A-SWGR
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 25,000
Mains Type: MLO
Bus Rating: 800 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			2018	8233							2	
	3	IAC-1 INSTR. AIR COMPRESSOR-1 0B46-1	25 A			2018	8233			60 A	AHU-1-R2 RETURN FAN 0B44	4	
	5							2018	8233			6	
	7			8233	15669							8	
	9	AHU-1-R1 RETURN FAN 0B46-1	60 A			8233	15669			90 A	AHU-1-S2 SUPPLY FAN 0B44	10	
	11							8233	15669			12	
	13			15669	8233							14	
	15	AHU-1-S1 SUPPLY FAN 0B46-1	90 A			15669	8233			60 A	AHU-2-R2 RETURN FAN 0B44	16	
	17							15669	8233			18	
	19			8233	8233							20	
	21	AHU-3-R2 RETURN FAN 0B44	60 A			8233	8233			60 A	AHU-2-R1 RETURN FAN 0B46-1	22	
	23							8233	8233			24	
	25			19122	19122							26	
	27	AHU-2-S1 SUPPLY FAN 0B46-1	110 A			19122	19122			110 A	AHU-2-S2 SUPPLY FAN 0B44	28	
	29							19122	19122			30	
	31			8233	0					--	SPACE - 3 POLE	32	--
	33	AHU-3-R1 RETURN FAN 0B46-1	60 A			8233	0			--	-	34	--
	35							8233	0	--	-	36	--
	37			19122	19122							38	
	39	AHU-3-S1 SUPPLY FAN 0B46-1	110 A			19122	19122			110 A	AHU-3-S2 SUPPLY FAN 0B44	40	
	41							19122	19122			42	
--	43	SPACE	--	0	0					--	SPACE	44	--
--	45	SPACE	--			0	0			--	SPACE	46	--
--	47	SPACE	--					0	0	--	SPACE	48	--
--	49	SPACE	--	0	0					--	SPACE	50	--
--	51	SPACE	--			0	0			--	SPACE	52	--
--	53	SPACE	--					0	0	--	SPACE	54	--
			Total Load:	159243 VA		159243 VA		159243 VA					
			Total Amps:	575 A		575 A		575 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	477729 VA
Motor	477729 VA	103.00%	492071 VA	**Total Est. Demand:**	492071 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	575 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	592 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BLGB

Location: ELECTRICAL 0D37E
Supply From: T-BLGB
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	2	600					20 A	R-OFFICE SUPV. 0C19	2	
	3	R-STAFF LOUNGE 0C07	20 A			466	960			20 A	R-AFGE 0C09	4	
	5	R-0B38, 0B39	20 A					720	780	20 A	R-MAIL ROOM 0C24	6	
	7	R-EMPLOYEE WELLNESS 0C08	20 A	1080	960					20 A	R-RECV. ISSUE 0C22	8	
	9	R-ROOM 0CCOR01-1, 0C21	20 A			900	1000			20 A	VAV XFMR CP...	10	
	11	R-ROOM 0CCOR03-1, 0DCOR02,...	20 A					900	1080	20 A	PLUGMOLD REPAIR, BIO-MED-1....	12	
	13	EF-0B01	20 A	1127	1200					20 A	MICROWAVE EMPLOYEE...	14	
	15	R-REPAIR, BIO-MED-1 0B40-1	20 A			1080	1320			20 A	R-STORAGE MEDICAL CLEAN-2....	16	
	17	MICROWAVE STAFF LOUNGE...	20 A					1200	1500	20 A	COFFEE STAFF LOUNGE 0C07	18	
	19	R-STO. NON-MEDICAL-1 0C23-1	20 A	1320	180					20 A	APPLIANCE EMPLOYEE...	20	
	21	COFFEE EMPLOYEE WELLNESS...	20 A			1500	180			20 A	APPLIANCE STAFF LOUNGE 0C07	22	
	23	TREADMILL-EMPLOYEE	20 A					960	180	20 A	COPIER REPAIR, BIO-MED-1....	24	
	25	WELLNESS 0C08		960	360					20 A	R-OFFICE SUPV. 0C19	26	
	27	R-ROOM 0C18, 0CCOR03-1, 0C21	20 A			360	540			20 A	R-ROOM 0C14, 0C10, 0C15	28	
	29	R-STO. NON-MEDICAL 0C23	20 A					360	360	20 A	R-ROOM 0C25, 0C26, 0C27, 5B106	30	
	31	R-REPAIR, BIO-MED-1 0B40-1	20 A	540	0					20 A	SPARE	32	
	33	R-BICYCLES EMPLOYEE...	20 A			540	720			20 A	R-ROOM 0C03R, 0C06R-1, 0C01,...	34	
	35	R-REPAIR, BIO-MED-1 0B40-1	20 A					540	720	20 A	R-ROOM 0C12, 0C11	36	
	37	R-REPAIR, BIO-MED-1 0B40-1	20 A	720	720					20 A	R-LOADING DOCK 5B106	38	
	39	R-MAIL ROOM 0C24	20 A			720	960			20 A	TREADMILL-EMPLOYEE WELLNESS 0C08	40	
	41	R-MAIL ROOM 0C24	20 A					720	960			42	
	43	TREADMILL-EMPLOYEE WELLNESS 0C08	20 A	960	1840					30 A	AC-1 LOADING DOCK AIR CURTAIN-1	44	
	45					960	1840					46	
	47	TREADMILL-EMPLOYEE WELLNESS 0C08	20 A					960	0	20 A	SPARE	48	
	49			960	0					20 A	SPARE	50	
	51	SCALE LOADING DOCK 5B106	20 A			500	0			20 A	SPARE	52	
	53	PLUGMOLD MCR 0B39	20 A					1080	0	20 A	SPARE	54	
	55	SPARE	20 A	0	0					20 A	SPARE	56	
	57	SPARE	20 A			0	0			20 A	SPARE	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
	67	SPARE	20 A	0	0					20 A	SPARE	68	
	69	SPARE	20 A			0	0			20 A	SPARE	70	
	71	SPARE	20 A					0	0	--	SPACE	72	--
--	73	SPACE	--	0	0					--	SPACE	74	--
--	75	SPACE	--			0	0			--	SPACE	76	--
--	77	SPACE	--					0	0	--	SPACE	78	--
--	79	SPACE	--	0	3000							80	
--	81	SPACE	--			0	3000			35 A	STEAM GUN MAN. WASH 0C12	82	
--	83	SPACE	--					0	3000			84	
			Total Load:	16529 VA		17546 VA		16020 VA					
			Total Amps:	138 A		147 A		134 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	21346 VA	73.42%	15673 VA	**Total Conn. Load:**	50095 VA
Motor	1127 VA	125.00%	1409 VA	**Total Est. Demand:**	42688 VA
Appliance	5760 VA	65.00%	3744 VA	**Total Conn.:**	139 A
Equipment	21862 VA	100.00%	21862 VA	**Total Est. Demand:**	118 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BHGB BHG1 BLGA
BHGC BLGB

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. FINI 8-1-2014
CAVEO PROJECT: 13-2893

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Drawing Title: **AREA B NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E615**

Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

8/3/2014 3:07:56 PM

BL1A

Location: ELECTRICAL 1D53E
Supply From: T-BL1A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	SINK SENSORS	20 A	3	106					20 A	R-STAFF LOUNGE 1B67	2
3	SPEAKER AMP. ACTIVE...	20 A			50	360			20 A	R-ROOM 1C17, 1C19, 1C21, 1C18	4
5	CUH-1 CABINET UNIT HEATER 4...	20 A					64	540	20 A	FRIDGE STAFF LOUNGE 1B67	6
7	FRIDGE STAFF LOUNGE 1C12	20 A	540	680					20 A	L-VENDING 1B81	8
9	R-OFFICE 1C28	20 A			600	780			20 A	R-IV ADMIX 1C11	10
11	R-CONFERENCE 1C06	20 A					660	786	20 A	R-STAFF LOUNGE 1C12	12
13	KIOSK & TV WAITING AREA 1C01	20 A	840	720					20 A	R-OPTICIANS 1B84	14
15	L-VENDING 1B81	20 A			900	1100			20 A	R-TECH 1C22	16
17	L-VENDING 1B81	20 A					900	1220	20 A	R-OPERATORS 1C27	18
19	R-CORRIDOR-1 0CCOR03-1	20 A	1360	1440					20 A	R-LOCAL MAIL 1C14	20
21	R-ACTIVE STORAGE 1C13	20 A			1700	1700			20 A	R-OFFICE 1C21	22
23	R-LINEN 0C14	20 A					1360	1580	20 A	R-WAITING AREA 1C24	24
25	COFFEE STAFF LOUNGE 1B67	20 A	1500	1500					20 A	COFFEE STAFF LOUNGE 1C12	26
27	R-BIO HAZ WASTE 0C16	20 A			1720	180			20 A	R-IV ADMIX 1C11	28
29	R-CLEAN CART 0C11	20 A					1720	180	20 A	R-IV ADMIX 1C11B	30
31	APPLIANCE STAFF LOUNGE 1C12	20 A	180	506					20 A	EF-1B04	32
33	EF-1B05	20 A			506	720			20 A	R-OFFICE 1C28	34
35	EF-1B06	20 A					506	720	20 A	R-VAULT 1C07	36
37	R-CONFERENCE 1C06	20 A	720	900					20 A	L-VENDING 1B81	38
39	R-ROOM 1B85, 1CCOR01,...	20 A			900	960			20 A	R-TRAVEL 1C25	40
41	R-ROOM 1C24, 1C01	20 A					900	960	20 A	R-VSO OFFICE 1B80	42
43	R-LOCAL MAIL 1C14	20 A	960	1040					20 A	R-TRAVEL 1C25	44
45	R-VAULT 1C07	20 A			1040	1080			20 A	R-ROOM 1B67, 1BCOR04, EXT - N	46
47	R-CUBICLES, HBS 1C30	20 A					1040	1080	20 A	R-ROOM 1C08, 1CCOR04,...	48
49	R-FITING/DISP. 1B83	20 A	540	1080					20 A	R-CONSULT. 1C03	50
51	R-CONSULT. 1C04	20 A			1080	1200			20 A	MICROWAVE STAFF LOUNGE...	52
53	R-FILING/ DISPENSING 1C20	20 A					1080	1200	20 A	R-ACTIVE STORAGE 1C13	54
55	MICROWAVE STAFF LOUNGE...	20 A	1200	1360					20 A	R-OFFICE 1C19	56
57	R-OPERATORS 1C27	20 A			1360	1720			20 A	R-ROOM 1CCOR06, 0C09	58
59	R-OPERATORS 1C27	20 A					1360	1720	20 A	R-SOILED LINEN 0C15	60
61	R-EMPLOYEE WELLNESS 0C08	20 A	1720	42					20 A	L-SERVE 1B84	62
63	L-LESSOR WORK AREA-2 0D02-2	20 A			118	0			20 A	SPARE	64
65	RECEPTACLE OFFICE 1B85	20 A					360	0	20 A	SPARE	66
67	RECEPTACLE OFFICE 1B85	20 A	500	0					20 A	SPARE	68
69	COILING DOOR AGENT CASHIER	20 A			864	0			20 A	SPARE	70
71	COILING DOOR AGENT CASHIER	20 A					864	0	20 A	SPARE	72
73	COILING GRILL OPTICAL	20 A	864	0					20 A	SPARE	74
75	COILING GRILL COFFEE SHOP	20 A			864	0			20 A	SPARE	76
77	SPARE	20 A					0	0	20 A	SPARE	78
79	SPARE	20 A	0	0					20 A	SPARE	80
81	SPARE	20 A			0	0			20 A	SPARE	82
83	SPARE	20 A					0	0	20 A	SPARE	84
	Total Load:		20301 VA		21502 VA		20800 VA				
	Total Amps:		169 A		180 A		174 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	3540 VA	125.00%	4425 VA		
Receptacle	46812 VA	60.68%	28406 VA	**Total Conn. Load:**	62603 VA
Motor	4974 VA	104.34%	5190 VA	**Total Est. Demand:**	42967 VA
Appliance	6660 VA	65.00%	4329 VA	**Total Conn.:**	174 A
Equipment	553 VA	100.00%	553 VA	**Total Est. Demand:**	119 A
Heating	64 VA	100.00%	64 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

KL1

Location: KITCHEN 1B86
Supply From: T-KL1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 600 A
MCB Rating: 500 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	F4 DELI/GRILL COUNTER 1B85	20 A	120	360					20 A	R-OFFICE, CANTEEN 1B82	2	
	3	F15-REGISTER 1B76	20 A			180	2100			25 A	K26-VEGETABLE DISPOSER	4	
	5	SECURITY TOWERS-RETAIL...	20 A					200	2100	25 A	K26-VEGETABLE DISPOSER	6	
	7	SPARE	20 A	0	1200					20 A	B8&B9-BEVERAGE & TEA...	8	
[1]	9	FC5-HEAT LAMP 1B74	20 A			840	900			20 A	K14-1B81	10	
	11	R-OFFICE, CANTEEN 1B82	20 A					1220	1200	20 A	F16-PENDANT LIGHTING HAC...	12	
	13	SPARE	20 A	0	1440					20 A	K17 KITCHEN 1B86	14	
	15	K50-FOOD PROCESSOR 1B72	20 A			1320	180			20 A	R-VENDING 1B81	16	
	17	K51-DISHWASHING MACH. 1B71	20 A					1320	2100	25 A	K26-VEGETABLE DISPOSER	18	
	19	K24-POT & PAN SINK BOOSTER 1B71	20 A	1250	0					50 A	RANGE 1B74	20	
	21					1250	5200					22	
	23	K31-HOSHIZAKI ICE MACH. 1B72	20 A					1250	1279	20 A	F1-PASTRY/COOLER DISPLAY CASE 1B86	24	
	25			1250	1279							26	
	27	B17 KITCHEN 1B86	20 A			2392	180			20 A	R-VENDING 1B81	28	
	29							2392	2392	20 A	F4 DELI/GRILL COUNTER 1B85	30	
	31	B1 KITCHEN 1B86	20 A	5200	2392							32	
	33					5200	180			20 A	R-CANTEEN STORAGE 1B72	34	
	35	RANGE 1B72	50 A					3120	180	20 A	R-VENDING 1B81	36	
	37			3120	180					20 A	R-VENDING 1B81	38	
	39	F15-REGISTER 1B86	20 A			500	1800			20 A	B8A-ICE MACH. 1B86	40	
	41	R-VENDING 1B81	20 A					180	180	20 A	R-CANTEEN STORAGE 1B72	42	
	43	R-FITING/DISP. 1B83	20 A	180	180					20 A	R-1B78	44	
	45	SPARE	20 A			0	0			20 A	SPARE	46	
	47	POWER 0B46-1	20 A					500				48	
	49	F15-REGISTER 1B86	20 A	500	1800					20 A	B8A-ICE MACH. 1B86	50	
	51	SPARE	20 A			0	3667					52	
	53	SPARE	20 A					0	3667	50 A	FC11-GRIDDLE 1B74	54	[1]
	55	SPARE	20 A	0	3667							56	
	57					4333	5524					58	
[1]	59	K11-VULCAN RANGE 1B74	50 A					4333	5524	20 A	FA4 FOOD PREP 1B85	60	[1]
	61			4333	5524							62	
	63					5524	5524					64	
[1]	65	FC14-FRYER 1B74	60 A					5524	5524	60 A	FC14-FRYER 1B74	66	[1]
	67			5524	5524							68	
	69					5667	0			20 A	SPARE	70	
[2]	71	K52-WALK-IN	60 A					5667	0	20 A	SPARE	72	
	73			5667	0					20 A	SPARE	74	
	75	RECEPTACLE OFFICE, CANTEE...	20 A			600	0			20 A	SPARE	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
	103	SPARE	20 A	0	0					20 A	SPARE	104	
--	105	SPACE	--			0	0			--	SPACE	106	--
--	107	SPACE	--					0	0	--	SPACE	108	--
--	109	SPACE	--	0	0					--	SPACE	110	--
--	111	SPACE	--			0	0			--	SPACE	112	--
--	113	SPACE	--					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	122	--
--	123	-	--			0	0			--	-	124	--
--	125	-	--					0	0	--	-	126	--
		Total Load:		50691 VA		53062 VA		49853 VA					
		Total Amps:		423 A		443 A		415 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	1200 VA	125.00%	1500 VA		
Receptacle	3980 VA	100.00%	3980 VA	**Total Conn. Load:**	153605 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	109691 VA
Appliance	126327 VA	65.00%	82113 VA	**Total Conn.:**	426 A
Equipment	20758 VA	100.00%	20758 VA	**Total Est. Demand:**	304 A
Heating	840 VA	100.00%	840 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:
1. PROVIDE SHUNT TRIP CIRCUIT BREAKER IN PANELBOARD TO INTERFACE WITH KITCHEN FIRE SUPPRESSION SYSTEM.
2. PROVIDE HEAT TAPE WITH GFCI CIRCUIT BREAKER AS NEEDED.
3. PROVIDE GFCI TYPE RECEPTACLE.

BL1B

Location: ELECTRICAL 1D53E
Supply From: T-BL1B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	SINK SENSORS	20 A	4	360					20 A	R-ELECTRICAL 1D53E	2
3	APPLIANCE STAFF LOUNGE 1D51	20 A			180	360			20 A	R-LAB WORK 1D29	4
5	MICROWAVE STAFF LOUNGE...	20 A					180	460	20 A	R-WAITING AREA 1D22	6
7	R-STAFF LOUNGE 1D51	20 A	466	660					20 A	R-TRAINING 1D55	8
9	FRIDGE STAFF LOUNGE 1D51	20 A			540	720			20 A	R-BLOOD DRAW 1D23	10
11	R-WAITING AREA 1D31	20 A					640	680	20 A	R-R.O.I. 1D38	12
13	R-ARMORY 1D60	20 A	720	1080					20 A	R-ROOM 1D21R, 1D19R,...	14
15	COFFEE STAFF LOUNGE 1D51	20 A			1200	1360			20 A	R-R.O.I. 1D39	16
17	COPIER CUBICLES 1D56	20 A					1200	1260	20 A	R-ROOM 1D54, 1D42, 1DCOR03,...	18
19	R-SUPV. 1D58	20 A	960	360					20 A	R-R.O.I. 1D38	20
21	R-R.O.I. 1D39	20 A			360	540			20 A	R-OPERATIONS 1D57	22
23							6600	360	20 A	R-R.O.I. 1D41	24
25	CFL1	100 A	6674	540					20 A	R-CUBICLES 1D56	26
27					6996	600			20 A	R-SUPERV. HBA 1D35	28
29	R-TRAINING 1D55	20 A					540	600	20 A	R-TOILET, STAFF 1D48R	30
31	R-R.O.I. 1D40	20 A	360	600					20 A	R-HAS SUPV. 1D45	32
33	R-HAS SUPV. 1D46	20 A			600	720			20 A	R-ROOM 1D18, 1D17T	34
35	R-HBA SUPV. 1D44	20 A					600	1040	20 A	R-SUPERV. HBA 1D35	36
37	R-OPERATIONS 1D57	20 A	720	720					20 A	R-HBA SUPV. 1D44	38
39	R-LAB WORK 1D29	20 A			720	720			20 A	R-BLOOD DRAW 1D25	40
41	R-OPERATIONS 1D57	20 A					720	720	20 A	R-HAS SUPV. 1D46	42
43	R-BLOOD DRAW 1D24	20 A	720	180					20 A	DRINKING FOUNTAIN CORRIDO...	44
45	R-ESCORT 1D32	20 A			600	0			20 A	SPARE	46
47	R-RECLINERS ROOM 1D23, 1D2...	20 A					1800	0	20 A	SPARE	48
49	CUH CABINET UNIT HEATER...	20 A	64	0					20 A	SPARE	50
51	SPARE	20 A			0	0			20 A	SPARE	52
53	SPARE	20 A					0	0	20 A	SPARE	54
55	SPARE	20 A	0	0					20 A	SPARE	56
57	SPARE	20 A			0	0			20 A	SPARE	58
59	SPARE	20 A					0	0	20 A	SPARE	60
61	SPARE	20 A	0	0					20 A	SPARE	62
63	SPARE	20 A			0	0			20 A	SPARE	64
65	SPARE	20 A					0	0	20 A	SPARE	66
67	SPARE	20 A	0	0					20 A	SPARE	68
-- 69	SPACE	--			0	0			--	SPACE	70 --
-- 71	SPACE	--					0	0	--	SPACE	72 --
-- 73	SPACE	--	0	0					--	SPACE	74 --
-- 75	SPACE	--			0	0			--	SPACE	76 --
-- 77	SPACE	--					0	0	--	SPACE	78 --
-- 79	SPACE	--	0	0					--	SPACE	80 --
-- 81	SPACE	--			0	0			--	SPACE	82 --
-- 83	SPACE	--					0	0	--	SPACE	84 --
	Total Load:		15188 VA		16216 VA		17400 VA				
	Total Amps:		127 A		136 A		146 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	25626 VA	69.51%	17813 VA	**Total Conn. Load:**	48804 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	34293 VA
Appliance	19138 VA	65.00%	12440 VA	**Total Conn.:**	135 A
Equipment	3976 VA	100.00%	3976 VA	**Total Est. Demand:**	95 A
Heating	64 VA	100.00%	64 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BH1

Location: ELECTRICAL 1D53E
Supply From: TAP-BH1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 18,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 70 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
1	L-AMBULANCE AND LOADING...	20 A	1000	2950					20 A	L-CORRIDOR 1BCOR02	2	
3	SPARE	20 A			0	2887			20 A	L-SERVING/ DINING 1B86	4	
5	SPARE	20 A					0	3264	20 A	L-CONFERENCE 1C06	6	
7	L-ACTIVE STORAGE 1C13	20 A	3861	2905					20 A	L-TOILET, STAFF 1D49R	8	
9					903	0			20 A	SPARE	10	
11	EF-1B01	15 A					903	0	20 A	SPARE	12	
13			903	0					--	SPACE	14	--
15	SPARE	20 A			0	0			--	SPACE	16	--
17	SPARE	20 A					0	0	--	SPACE	18	--
	Total Load:		11619 VA		3790 VA		4167 VA					
	Total Amps:		42 A		14 A		15 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	17184 VA	125.00%	21480 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	19893 VA
Motor	2709 VA	125.00%	3386 VA	**Total Est. Demand:**	24866 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	24 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	30 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BL1A KL1 BL1B
BH1

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title: **AREA B NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E616**

Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

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BL2A

Location: ELECTRICAL 2D31E
Supply From: T-BL2A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	6	360					20 A	R-MED 2C21	2	
	3	DRINKING FOUNTAIN WAITING...	20 A			180	400			20 A	KIOSK & TV WAITING AREA 2C01	4	
	5	SCALE W/C 2C06	20 A					240	580	20 A	R-TREATMENT / PROC 2B57	6	
	7	SCALE W/C 2C08	20 A	600	740					20 A	R-GROUP 2C04	8	
	9	R-DIETICIAN 2C05	20 A			720	1500			20 A	COPIER COPY RM 2C03	10	
	11	R-GROUP 2C04	20 A					720	860	20 A	R-PATIENT 2B207	12	
	13	R-ROOM 2C29	20 A	900	960					20 A	R-CONSULT 2C13	14	
	15	R-GROUP 2C04	20 A			1620	1540			20 A	R-ROOM 2C33, 2C31, 2C27	16	
	17	R-RECEPTION 2C02	20 A					1080	1220	20 A	R-ROOM 2C35, 2C31	18	
	19	R-CONSULT 2C15	20 A	960	1400					20 A	R-ROOM 2C35, 2C33, 2C31, 2C27	20	
	21	R-OFFICE / EXAM 2C07	20 A			720	1720			20 A	R-ROOM 2B66, 2B64, 2B62	22	
	23	R-COPY RM 2C03	20 A					1260	1080	20 A	R-ROOM 2B66, 2B64, 2B62, 2B60	24	
	25	R-ROOM 2C12, 2C14, 2C16, 2C10	20 A	1400	1360					20 A	R-ROOM 2B64, 2B62, 2B60	26	
	27	R-ROOM 2C12, 2C14, 2C16, 2C10	20 A			1400	960			20 A	SHREDDER COPY RM 2C03	28	
	29	R-ROOM 2C12, 2C14, 2C16	20 A					1360	720	20 A	R-TREATMENT / PROC 2B57	30	
	31	R-OFFICE / EXAM 2B56	20 A	720	960					20 A	R-CONSULT 2C17	32	
	33	R-LOCAL MAIL 1C14	20 A			1200	1200			20 A	R-DISHWASH 1B88	34	
	35	SHREDDER RECEPTION 2C02	20 A					960	1200	20 A	R-TEAMLET 2C18B	36	
	37	R-KITCHEN 1B86	20 A	1200	1200					20 A	R-DISHWASH 1B88	38	
	39	R-CORRIDOR-2 0CCOR03-2	20 A			1200	1200			20 A	R-ACTIVE STORAGE 1C13	40	
	41	R-KITCHEN 1B86	20 A					1200	1200	20 A	R-DISHWASH 1B88	42	
	43	R-ACTIVE STORAGE 1C13	20 A	1200	1200					20 A	POWER KITCHEN 1B86	44	
	45	R-ROOM 2CCOR01, 2CCOR07,...	20 A			1260	1440			20 A	TABLE GYN EXAM 2C10	46	
	47	R-ACTIVE STORAGE 1C13	20 A					1200	1260	20 A	R-ROOM 2CCOR05, 2CCOR04,...	48	
	49	R-ROOM 2B54, 2B63, 2B65, 2B58...	20 A	1260	1440					20 A	TABLE EXAM 2C35	50	
	51	TABLE EXAM 2C31	20 A			1440	1440			20 A	TABLE EXAM 2C12	52	
	53	TABLE PATIENT 2B207	20 A					1440	1440	20 A	TABLE EXAM 2C33	54	
	55	TABLE EXAM 2C16	20 A	1440	1440					20 A	TABLE EXAM 2B66	56	
	57	TABLE EXAM 2B62	20 A			1440	1440			20 A	R-OFFICE / EXAM 2C09	58	
	59	TABLE EXAM 2C14	20 A					1440	1440	20 A	TABLE EXAM 2B64	60	
	61	TABLE EXAM 2B60	20 A	1440	1440					20 A	R-OFFICE / EXAM 2B61	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	TABLE CONSULT 2C27	20 A					1440	0	20 A	SPARE	66	
	67	SPARE	20 A	0	0					20 A	SPARE	68	
	69	SPARE	20 A			0	0			20 A	SPARE	70	
	71	SPARE	20 A					0	0	20 A	SPARE	72	
	73	SPARE	20 A	0	0					20 A	SPARE	74	
	75	SPARE	20 A			0	0			20 A	SPARE	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
--	103	SPACE	--	0	0					--	SPACE	104	--
--	105	SPACE	--			0	0			--	SPACE	106	--
--	107	SPACE	--					0	0	--	SPACE	108	--
--	109	SPACE	--	0	0					--	SPACE	110	--
--	111	SPACE	--			0	0			--	SPACE	112	--
--	113	SPACE	--					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE	--	0	0					--	SPACE	122	--
--	123	SPACE	--			0	0			--	SPACE	124	--
--	125	SPACE	--					0	0	--	SPACE	126	--
			Total Load:	23626 VA		24020 VA		23340 VA					
			Total Amps:	197 A		201 A		195 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	49960 VA	60.01%	29980 VA	**Total Conn. Load:**	70986 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	51006 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	197 A
Equipment	21026 VA	100.00%	21026 VA	**Total Est. Demand:**	142 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BH2

Location: ELECTRICAL 2D31E
Supply From: TAP-BH1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 18,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 70 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-CORRIDOR 2BCOR02	20 A	2002	3360					20 A	L-GROUP 2C04	2	
	3	L-TOILET M 2C24R	20 A			3606	3592			20 A	L-BLOOD DRAW 2D18	4	
	5	SPARE	20 A					0	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	5362 VA		7198 VA		0 VA					
			Total Amps:	22 A		29 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	12888 VA	125.00%	16110 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	12888 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	16110 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	16 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	19 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BL2B

Location: ELECTRICAL 2D31E
Supply From: T-BL2B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	APPLIANCE STAFF COMMON...	20 A	180	366					20 A	SINK SENSORS	2
3	R-ELECTRICAL 2D31E	20 A			360	400			20 A	R-TREATMENT / PROC 2C30	4
5	R-ROOM 2D27, 2D25	20 A					360	466	20 A	R-STAFF COMMON 2C34	6
7	VAV XFMR CP 2CCOR09	20 A	500	960					20 A	R-PATIENT ADVOCATE 2D06	8
9	R-GROUP 2B53	20 A			660	860			20 A	R-EXAM 2D27	10
11	R-BLOOD DRAW 2D17	20 A					540	820	20 A	R-WAITING AREA 2D16	12
13	R-GROUP 2C46	20 A	1000	1440					20 A	R-OFFICE / EXAM 2C28	14
15	R-ASSESS 2D34	20 A			900	1260			20 A	R-ROOM 2D09, 2D35, 2D07,...	16
17	R-ASSESS 2D38	20 A					360	1200	20 A	MICROWAVE STAFF COMMON...	18
19	FRIDGE STAFF COMMON 2C34	20 A	540	720					20 A	R-OFFICE / EXAM 2D26	20
21	SPARE	20 A			0	720			20 A	R-OFFICE / EXAM 2D43	22
23	R-TREATMENT / PROC 2C32	20 A					580	720	20 A	R-ROOM 2D13, 2D12T	24
25	R-LAB WORK 2D21	20 A	720	540					20 A	R-BLOOD DRAW 2D18	26
27	R-OFFICE / EXAM 2C38	20 A			720	720			20 A	R-GROUP 2B53	28
29	R-OFFICE / EXAM 2C41	20 A					720	720	20 A	R-LAB WORK 2D21	30
31	R-ROOM 2D29, 2DCOR03, 2C39,...	20 A	900	960					20 A	R-CONSULT 2D44	32
33	R-TREATMENT / PROC 2C30	20 A			900	900			20 A	R-DICTION 2D24	34
35	R-TREATMENT / PROC 2C32	20 A					900	900	20 A	R-GROUP 2B52	36
37	R-EXAM 2D25	20 A	860	1040					20 A	R-ROOM 2D33, 2D41	38
39	R-OFFICE / EXAM 2C44	20 A			1040	1040			20 A	R-ROOM 2D42, 2D33	40
41	R-OFFICE / EXAM 2C45	20 A					1040	1040	20 A	R-ROOM 2D42, 2D41	42
43	R-GROUP 2B52	20 A	900	1200					20 A	POKE THRU TEAMLET 2D32B	44
45	R-GROUP 2C46	20 A			1080	1200			20 A	POKE THRU TEAMLET 2D32A	46
47	R-ROOM 2D14R, 2D15R,...	20 A					1080	1200	20 A	POKE THRU TEAMLET 2D32A	48
49	POKE THRU TEAMLET 2D32B	20 A	1200	1440					20 A	TABLE EXAM 2D33	50
51	POKE THRU TEAMLET 2D32C	20 A			1200	1440			20 A	TABLE EXAM 2D41	52
53	POKE THRU TEAMLET 2D32A	20 A					1200	1440	20 A	TABLE EXAM 2D42	54
55	R-ROOM 2D23, 2DCOR05,...	20 A	1440	1500					20 A	COFFEE STAFF COMMON 2C34	56
57	TABLE EXAM 2D25	20 A			1440	1500			20 A	VENDING BLIND VENDING 2D08	58
59	TABLE EXAM 2D27	20 A					1440	1500	20 A	VENDING BLIND VENDING 2D08	60
61	PLUGMOLD GROUP 2B53	20 A	1620	180					20 A	DRINKING FOUNTAIN CORRIDO...	62
63	PLUGMOLD GROUP 2C46	20 A			1620	180			20 A	DRINKING FOUNTAIN WAITING...	64
65	PLUGMOLD SPS 2B54	20 A					1620	0	20 A	SPARE	66
67	L-X-RAY ILLUMINATOR...	20 A	100	0					20 A	SPARE	68
69	CHAIR BLOOD DRAW 2D18	20 A			1200	0			20 A	SPARE	70
71	CHAIR BLOOD DRAW 2D17	20 A					1200	0	20 A	SPARE	72
73	R-ASSESS 2D38	20 A	360	0					20 A	SPARE	74
75	AUTODOOR CIRCULATION...	20 A			300	0			20 A	SPARE	76
77	SPARE	20 A					0	0	20 A	SPARE	78
79	SPARE	20 A	0	0					20 A	SPARE	80
81	SPARE	20 A			0	0			20 A	SPARE	82
83	SPARE	20 A					0	0	20 A	SPARE	84
		Total Load:	20666 VA		21640 VA		21046 VA				
		Total Amps:	172 A		181 A		176 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	100 VA	125.00%	125 VA		
Receptacle	45466 VA	61.00%	27733 VA	**Total Conn. Load:**	63352 VA
Motor	300 VA	125.00%	375 VA	**Total Est. Demand:**	45035 VA
Appliance	3420 VA	80.00%	2736 VA	**Total Conn.:**	176 A
Equipment	14066 VA	100.00%	14066 VA	**Total Est. Demand:**	125 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BL2A BH2 BL2B

ISSUED FOR CONSTRUCTION

Revisions:		Date
1	ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title: **AREA B NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E617**

Dwg. of

U.S. Department of Veterans Affairs

8/3/2014 3:08:01 PM

VA FORM 08-6231

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BL3A

Location: ELECTRICAL 3D21E
Supply From: T-BL3A
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL
AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	6	360					20 A	R-EXAM 3B49	2	
	3	R-MED 3C22	20 A			180	480			20 A	KIOSK & TV WAITING AREA 3C01	4	
	5	DRINKING FOUNTAIN WAITING...	20 A					180	480	20 A	R-ROOM 3C08, 3C26, 3C06	6	
	7	R-GROUP 3C04	20 A	540	700					20 A	R-TREATMENT / PROC 3B57	8	
	9	R-GROUP 3C04	20 A			660	720			20 A	R-DIETICIAN 3C05	10	
	11	R-EXAM 3B60	20 A					680	860	20 A	R-EXAM 3B58	12	
	13	R-EXAM 3B64	20 A	860	960					20 A	R-CONSULT 3C15	14	
	15	R-DICTATION 3C29	20 A			900	960			20 A	R-CONSULT 3C13	16	
	17	R-WAITING AREA 3C01	20 A					900	1260	20 A	R-ROOM 3C02, 3C03	18	
	19	R-RECEPTION 3C02	20 A	1080	1500					20 A	COPIER COPY RM 3C03	20	
	21	R-EXAM 3B54	20 A			1040	1040			20 A	R-EXAM 3B62	22	
	23	R-STAIR 4 3S04	20 A					1620	1720	20 A	R-ROOM 3C12, 3C14, 3C16, 3C10	24	
	25	R-ROOM 3C27, 3C33, 3C35, 3C31	20 A	1400	1220					20 A	R-ROOM 3C12, 3C10	26	
	27	R-ROOM 3C27, 3C31	20 A			1220	1220			20 A	R-ROOM 3C14, 3C16	28	
	29	R-ROOM 3C33, 3C35	20 A					1220	360	20 A	R-ROOM 3CCOR01, 3CCOR07	30	
	31	R-ROOM 3B60, 3B58	20 A	360	720					20 A	R-TREATMENT / PROC 3B57	32	
	33	R-ROOM 3B64, 3B62	20 A			360	720			20 A	ROOM 3C08, 3C06, 3CCOR03,...	34	
	35	ROOM 3C26, 3C48, 3CCOR12	20 A					720	720	20 A	R-ROOM 3B65, 3B63, 3CCOR01,...	36	
	37	R-OFFICE / EXAM 3B56	20 A	720	960					20 A	R-CONSULT 3C17	38	
	39	R-OFFICE / EXAM 3C11	20 A			720	960			20 A	SHREDDER COPY RM 3C03	40	
	41	SHREDDER RECEPTION 3C02	20 A					960	1200	20 A	POKE THRU TEAMLET 2C18C	42	
	43	POKE THRU TEAMLET 2C18B	20 A	1200	1200					20 A	POKE THRU TEAMLET 2C18A	44	
	45	POKE THRU TEAMLET 2C18C	20 A			1200	1200			20 A	POKE THRU TEAMLET 2C18A	46	
	47	POKE THRU TEAMLET 2C18A	20 A					1200	1200	20 A	POKE THRU TEAMLET 2B67C	48	
	49	POKE THRU TEAMLET 2B67B	20 A	1200	1200					20 A	POKE THRU TEAMLET 2B67A	50	
	51	POKE THRU TEAMLET 2B67C	20 A			1200	1200			20 A	POKE THRU TEAMLET 2B67A	52	
	53	POKE THRU TEAMLET 2B67A	20 A					1200	1440	20 A	TABLE GYN EXAM 3C10	54	
	55	TABLE EXAM 3C33	20 A	1440	1440					20 A	TABLE EXAM 3C14	56	
	57	TABLE EXAM 3C35	20 A			1440	1440			20 A	TABLE EXAM 3C16	58	
	59	TABLE EXAM 3C31	20 A					1440	1440	20 A	TABLE EXAM 3C12	60	
	61	TABLE EXAM 3B62	20 A	1440	1440					20 A	TABLE EXAM 3B54	62	
	63	TABLE EXAM 3B64	20 A			1440	1440			20 A	TABLE EXAM 3B58	64	
	65	TABLE EXAM 3B60	20 A					1440	1440	20 A	TABLE CONSULT 3C27	66	
	67	R-OFFICE / EXAM 3B61	20 A	1440	0					20 A	SPARE	68	
	69	R-OFFICE / EXAM 3C07	20 A			1440	0			20 A	SPARE	70	
	71	SPARE	20 A					0	0	20 A	SPARE	72	
	73	SPARE	20 A	0	0					20 A	SPARE	74	
	75	SPARE	20 A			0	0			20 A	SPARE	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
	103	SPARE	20 A	0	0					20 A	SPARE	104	
	105	SPACE	20 A			0	0			20 A	SPARE	106	
--	107	SPACE	--					0	0	--	SPACE	108	--
--	109	SPACE	--	0	0					--	SPACE	110	--
--	111	SPACE	--			0	0			--	SPACE	112	--
--	113	SPACE	--					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE	--	0	0					--	SPACE	122	--
--	123	SPACE	--			0	0			--	SPACE	124	--
--	125	SPACE	--					0	0	--	SPACE	126	--
			Total Load:	23386 VA		23180 VA		23680 VA					
			Total Amps:	195 A		193 A		198 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	100 VA	125.00%	125 VA		
Receptacle	49120 VA	60.18%	29560 VA	**Total Conn. Load:**	70246 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	50711 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	195 A
Equipment	21026 VA	100.00%	21026 VA	**Total Est. Demand:**	141 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BH3A

Location: ELECTRICAL 3D21E
Supply From: C-SWGR
Mounting: Surface
Enclosure: Type 1
Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL
AIC Rating: 35,000
Mains Type: MLO
Bus Rating: 1200 A
MCB Rating: 0 A

Legend: L = LIGHTING, R = RECEPTACLE
Notes:

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			14013	12888							2	
	3	TAP-BH3B	100 A			13323	14260			125 A	T-BL5A	4	
	5							8883	14000			6	
--	7	SPACE	--	0	0					--	SPACE	8	--
--	9	SPACE	--			0	0			--	SPACE	10	--
	11							15831	17112			12	
	13	T-BL5B	125 A	15040	19660					125 A	T-BL4B	14	
	15					14660	18480					16	
--	17	SPACE	--					0	0	--	SPACE	18	--
--	19	SPACE	--	0	0					--	SPACE	20	--
	21					18626	22052					22	
	23	T-BL4A	125 A					20040	23860	125 A	T-BL3B	24	
	25			19620	21220							26	
--	27	SPACE	--			0	101047					28	
--	29	SPACE	--					0	1006...	600 A	BHP	30	
	31			23386	99256							32	
	33	T-BL3A	125 A			23180	0			--	SPACE	34	--
	35							23680	0	--	SPACE	36	--
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
--	43	SPACE - 3 POLE	--	0	0					--	SPACE 3 POLE	44	--
--	45		--			0	0			--	-	46	--
--	47	-	--					0	0	--	-	48	--
--	49	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	50	--
--	51	-	--			0	0			--	-	52	--
	53	-	--					0	0	--	-	54	--
			Total Load:	225083 VA		225627 VA		224029 VA					
			Total Amps:	813 A		815 A		809 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	40103 VA	125.00%	50129 VA		
Receptacle	236038 VA	52.12%	123019 VA	**Total Conn. Load:**	676889 VA
Motor	250414 VA	103.50%	259178 VA	**Total Est. Demand:**	578439 VA
Appliance	12060 VA	65.00%	7839 VA	**Total Conn.:**	814 A
Equipment	92336 VA	100.00%	92336 VA	**Total Est. Demand:**	696 A
Heating	0 VA	0.00%	0 VA		
Elevator	45438 VA	100.00%	45438 VA		

Notes:

BH3B

Location: ELECTRICAL 3D21E
Supply From: TAP-BH3B
Mounting: Surface
Enclosure: Type 1
Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL
AIC Rating: 30,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 70 A

Legend: L = LIGHTING, R = RECEPTACLE
Notes:

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-TEAMLET 3D23C	20 A	1284	3595					20 A	L-TEAMLET 3B66C	2	
	3	L-CORRIDOR 3CCOR08	20 A			3374	3695			20 A	L-OFFICE / EXAM 3C07	4	
	5	SPARE	20 A					0	2477	20 A	L-TOILET, STAFF 3C36R	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	4879 VA		7069 VA		2477 VA					
			Total Amps:	19 A		27 A		9 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	15143 VA	125.00%	18929 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	15143 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	18929 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	18 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	23 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BL3B

Location: ELECTRICAL 3D21E
Supply From: T-BL3B
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL
AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	6	360					20 A	R-ELECTRICAL 3D21E	2	
	3	R-VENDING 3D01	20 A			360	500			20 A	VAV XFMR CP 3CCOR09	4	
	5	V-1 R-TV VENDING 3D01	20 A					180	600	20 A	V6 MICROWAVE VENDING 3D01	6	
	7	R-STAFF COMMON 3C37	20 A	646	700					20 A	R-TREATMENT / PROC 3C30	8	
	9	R-GROUP 3B52	20 A			660	700			20 A	R-TREATMENT / PROC 3C41	10	
	11	R-GROUP 3B53	20 A					660	540	20 A	R-BLOOD DRAW 3D08	12	
	13	R-BLOOD DRAW 3D09	20 A	540	900					20 A	R-DICTATION 3D15	14	
	15	R-GROUP 3C47	20 A			740	1200			20 A	MICROWAVE STAFF COMMON...	16	
	17	R-WAITING AREA 3D07	20 A					820	1260	20 A	R-ROOM 3C34, 3C39, 3CCOR03,...	18	
	19	R-ROOM 3D05R, 3D06R,...	20 A	1260	1620					20 A	R-CORRIDOR 3CCOR01	20	
	21	R-CONSULT 3D40	20 A			960	1440			20 A	TABLE EXAM 3D16	22	
	23	V2 VENDING 3D01	20 A					1800	2080	20 A	R-OFFICE / EXAM 3C43	24	
	25	COFFEE STAFF COMMON 3C37	20 A	1500	1800					20 A	V3 VENDING 3D01	26	
	27	R-OFFICE / EXAM 3C46	20 A			2080	1620			20 A	R-SPS 3B54	28	
	29	R-MED 3D25	20 A					360	360	20 A	V5 VENDING 3D01	30	
	31	R-ROOM 3D38, 3D34	20 A	1040	540					20 A	R-GROUP 3C47	32	
	33	R-ROOM 3D36, 3D34	20 A			1040	360			20 A	R-ROOM 3DCOR03, 3DCOR10,...	34	
	35	R-ROOM 3D38, 3D36	20 A					1040	540	20 A	R-GROUP 3C47	36	
	37	FRIDGE STAFF COMMON 3C37	20 A	540	720					20 A	R-TREATMENT / PROC 3C30	38	
	39	R-GROUP 3B53	20 A			540	720			20 A	R-TREATMENT / PROC 3C41	40	
	41	ROOM 3D26, 3D27, 3D31,...	20 A					900	720	20 A	R-ROOM 3D04, 3D03T	42	
	43	R-LAB WORK 3D12	20 A	720	0					20 A	SPARE	44	
	45	R-LAB WORK 3D12	20 A			720	0			20 A	SPARE	46	
	47	R-ROOM 3D14, 3D17, 3D18, 3D16	20 A					1720	0	20 A	SPARE	48	
	49	R-ROOM 3D14, 3D16	20 A	1220	1080					20 A	R-GROUP 3B52	50	
	51	R-ROOM 3D17, 3D18	20 A			1220	1080			20 A	R-ROOM 3D22, 3DCOR05,...	52	
	53	V1 VENDING 3D01	20 A					1080	1200	20 A	POKE THRU TEAMLET 2D32C	54	
	55	POKE THRU TEAMLET 2D32A	20 A	1200	1200					20 A	POKE THRU TEAMLET 2D32C	56	
	57	POKE THRU TEAMLET 2D32B	20 A			1200	1200			20 A	R-TEAMLET 2D32A	58	
	59	POKE THRU TEAMLET 2D32A	20 A					1200	1440	20 A	V4 VENDING 3D01	60	
	61	TABLE EXAM 3D36	20 A	1440	1440					20 A	TABLE EXAM 3D17	62	
	63	TABLE EXAM 3D38	20 A			1440	1440			20 A	TABLE EXAM 3D18	64	
	65	TABLE EXAM 3D34	20 A					1440	180	20 A	DRINKING FOUNTAIN CORRIDO...	66	
	67	DRINKING FOUNTAIN WAITING...	20 A	180	200					20 A	L-VENDING 3D01	68	
	69	TABLE CONSULT 3D14	20 A			1440	0			20 A	SPARE	70	
	71	L-X-RAY ILLUM. TREATMENT / ...	20 A					500	0	20 A	SPARE	72	
	73	CHAIR BLOOD DRAW 3D08	20 A	1200	0					20 A	SPARE	74	
	75	CHAIR BLOOD DRAW 3D09	20 A			1200	0			20 A	SPARE	76	
	77	AUTODOORS	20 A					600	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
	103	SPARE	20 A	0	0					20 A	SPARE	104	
--	105	SPACE	--			0	0			--	SPACE	106	--
--	107	SPACE	--					0	0	--	SPACE	108	--
--	109	SPACE	--	0	0					--	SPACE	110	--
--	111	SPACE	--			0	0			--	SPACE	112	--
--	113	SPACE	--					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE	--	0	0					--	SPACE	122	--
--	123	SPACE	--			0	0			--	SPACE	124	--
--	125	SPACE	--					0	0	--	SPACE	126	--
			Total Load:	22052 VA		23860 VA		21220 VA					
			Total Amps:	185 A		200 A		177 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	400 VA	125.00%	500 VA		
Receptacle	41366 VA	62.09%	25683 VA	**Total Conn. Load:**	67132 VA
Motor	600 VA	112.50%	675 VA	**Total Est. Demand:**	50856 VA
Appliance	3840 VA	80.00%	3072 VA	**Total Conn.:**	186 A
Equipment	20426 VA	100.00%	20426 VA	**Total Est. Demand:**	141 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BL3A BH3A BL3B
BH3B

ISSUED FOR CONSTRUCTION

Revisions:		Date
1	ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-12-2014

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Drawing Title:
AREA B NORMAL PANEL SCHEDULES

Approved: Project Director

Project Title
VA Charlotte
Health Care Center

Location
Charlotte, NC

Date 07/21/2014 | Checked RJA | Drawn BCE

Project Number
SFO# VA-101-10-RP-0081

Building Number

Drawing Number
E618
Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

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8/3/2014 3:08:04 PM

BL4A

Location: ELECTRICAL 4D21E
Supply From: T-BL4A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	SINK SENSORS	20 A	6	360					20 A	R-MED 4C21	2
3	SCALES ROOM 4C06, 4C08, 4C26	20 A			120	360			20 A	R-ROOM 4B62, 4B69, 4B63	4
5	SCALE W/C 4B54	20 A					240	400	20 A	KIOSK & TV ROOM 4CCOR02,...	6
7	R-GROUP 4C04	20 A	460	660					20 A	R-ABG LAB 4B69	8
9	R-GROUP 4C04	20 A			540	780			20 A	R-ABG LAB 4B69	10
11	SPARE	20 A					0	900	20 A	R-DICTATION 4C29	12
13	R-ROOM 4CCOR02, 4CCOR10,...	20 A	900	0					20 A	SPARE	14
15	SHREDDER COPY RM 4C03	20 A			960	1120			20 A	ANALYZERS ROOM 4B62, 4B63	16
17	R-DIETICIAN 4C05	20 A					720	1200	20 A	POKE THRU TEAMLET 3C18C	18
19	POKE THRU TEAMLET 3C18A	20 A	1200	960					20 A	R-CONSULT 4C27	20
21	R-NEURO TECH WORK 4B66	20 A			1400	1870			20 A	EMG / EEG EXAM 4B75	22
23	R-ROOM 4C47, 4CCOR03,...	20 A					1260	1260	20 A	R-ROOM 4CCOR01, 4BCOR04,...	24
25	R-CONSULT 4C15	20 A	1440	1500					20 A	COPIER COPY RM 4C03	26
27	EMG / EEG EXAM 4B77	20 A			1870	0			20 A	SPARE	28
29	R-ROOM 4C06, 4C08, 4C26,...	20 A					2160	0	20 A	SPARE	30
31	R-ROOM 4B75, 4B77	20 A	360	720					20 A	R-PPT 4B62	32
33	R-PPT 4B63	20 A			720	1400			20 A	R-ROOM 4C14, 4C16, 4C12, 4C10	34
35	R-PULM TECH WORK 4B65	20 A					1040	1720	20 A	R-ROOM 4C14, 4C12, 4C10	36
37	R-ROOM 4C31, 4C33	20 A	1040	1040					20 A	R-ROOM 4C14, 4C16, 4C12, 4C10	38
39	R-ROOM 4C31, 4C35	20 A			1040	1080			20 A	R-READING ROOM 4B70	40
41	R-ROOM 4C33, 4C35	20 A					1040	1080	20 A	R-RECEPTION 4C02	42
43	R-R.T. OFFICE 4B67	20 A	1080	1080					20 A	R-NEURO TECH WORK 4B66	44
45	R-PHYSICIAN WORK 4B68	20 A			1080	1200			20 A	POKE THRU TEAMLET 3C18B	46
47	R-PULM TECH WORK 4B65	20 A					1080	1200	20 A	POKE THRU TEAMLET 3C18B	48
49	POKE THRU TEAMLET 3C18A	20 A	1200	1440					20 A	TABLE EXAM 4C33	50
51	TABLE EXAM 4C35	20 A			1440	1440			20 A	TABLE EXAM 4C16	52
53	TABLE GYN EXAM 4C10	20 A					1440	1440	20 A	TABLE EXAM 4C31	54
55	TABLE EXAM 4C14	20 A	1440	1440					20 A	R-OFFICE / EXAM 4C07	56
57	R-OFFICE / EXAM 4C11	20 A			1440	180			20 A	DRINKING FOUNTAIN CORRIDO...	58
59	TABLE EXAM 4C12	20 A					1440	0	20 A	SPARE	60
61	AUTODOORS	20 A	300	0					20 A	SPARE	62
63	SPARE	20 A			0	0			20 A	SPARE	64
65	SPARE	20 A					0	0	20 A	SPARE	66
67	SPARE	20 A	0	0					20 A	SPARE	68
69	SPARE	20 A			0	0			20 A	SPARE	70
71	SPARE	20 A					0	0	20 A	SPARE	72
73	SPARE	20 A	0	0					20 A	SPARE	74
75	SPARE	20 A			0	0			20 A	SPARE	76
77	SPARE	20 A					0	0	20 A	SPARE	78
79	SPARE	20 A	0	0					20 A	SPARE	80
81	SPARE	20 A			0	0			20 A	SPARE	82
83	SPARE	20 A					0	0	20 A	SPARE	84
	Total Load:		18626 VA		20040 VA		19620 VA				
	Total Amps:		155 A		168 A		165 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	43320 VA	61.54%	26660 VA	**Total Conn. Load:**	58286 VA
Motor	300 VA	125.00%	375 VA	**Total Est. Demand:**	41701 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	162 A
Equipment	14666 VA	100.00%	14666 VA	**Total Est. Demand:**	116 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BL4B

Location: ELECTRICAL 4D21E
Supply From: T-BL4B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	SINK SENSORS	20 A	6	420					20 A	R-TREATMENT / PROC 4C30	2
3	MICROWAVE STAFF COMMON...	20 A			180	420			20 A	R-TREATMENT / PROC 4C41	4
5	R-ELECTRICAL 4D21E	20 A					360	500	20 A	VAV XFMR CP 4CCOR13	6
7	FRIDGE STAFF COMMON 4C37	20 A	540	646					20 A	R-STAFF COMMON 4C37	8
9	R-GROUP 4C46	20 A			540	1440			20 A	R-OFFICE / EXAM 4C45	10
11	R-GROUP 4C46	20 A					660	860	20 A	R-TREATMENT / PROC 4C30	12
13	R-DICTATION 4D15	20 A	900	1680					20 A	R-OFFICE / EXAM 4D38	14
15	TABLE EXAM 4B74	20 A			1440	1620			20 A	R-GROUP 4C46	16
17	R-TREATMENT / PROC 4C41	20 A					860	860	20 A	R-EXAM 4D16	18
19	R-MED 4D25	20 A	360	540					20 A	R-GROUP 4C46	20
21	R-ROOM 4D18, 4D16	20 A			360	540			20 A	R-LAB WORK 4D12	22
23	R-CONSULT 4D14	20 A					960	360	20 A	R-ROOM 4D36, 4D34	24
25	R-OFFICE / EXAM 4D17	20 A	720	540					20 A	R-BLOOD DRAW 4D08	26
27	R-ROOM 4D04, 4D03T	20 A			720	540			20 A	R-BLOOD DRAW 4D09	28
29	R-ROOM 4B74, 4B76, 4B78	20 A					540	720	20 A	R-WAITING AREA 4D07	30
31	R-LAB WORK 4D12	20 A	900	860					20 A	R-EXAM 4D18	32
33	R-ROOM 4C34, 4C43, 4CCOR05,...	20 A			900	860			20 A	R-EXAM 4D34	34
35	R-OFFICE / EXAM 4C28	20 A					720	900	20 A	R-ROOM 4D45, 4DCOR03,...	36
37	R-ROOM 4B72, 4D05R, 4D06R,...	20 A	1080	1200					20 A	R-TEAMLET 3D23B	38
39	R-ROOM 4D22, 4DCOR02, 4C42,...	20 A			1080	1200			20 A	R-TEAMLET 3D23B	40
41	R-EXAM 4D36	20 A					860	1080	20 A	R-ROOM 4D27, 4DCOR01,...	42
43	L-X-RAY ILLUM. TREATMENT /...	20 A	100	860					20 A	R-EXAM 4B74	44
45	R-TEAMLET 3D23A	20 A			1200	860			20 A	R-EXAM 4B76	46
47	R-TEAMLET 3D23C	20 A					1200	1200	20 A	R-TEAMLET 3D23A	48
49	TABLE EXAM 4D18	20 A	1440	1440					20 A	TABLE EXAM 4B76	50
51	TABLE EXAM 4D34	20 A			1440	1440			20 A	TABLE EXAM 4B78	52
53	R-EXAM 4B78	20 A					860	1440	20 A	TABLE EXAM 4D36	54
55	COFFEE STAFF COMMON 4C37	20 A	1500	180					20 A	DRINKING FOUNTAIN CORRIDO...	56
57	VENDING VENDING 4D01	20 A			1500	180			20 A	DRINKING FOUNTAIN WAITING...	58
59	TABLE EXAM 4D16	20 A					1440	1500	20 A	VENDING VENDING 4D01	60
61	CHAIR BLOOD DRAW 4D08	20 A	1200	0					20 A	SPARE	62
63	CHAIR BLOOD DRAW 4D09	20 A			1200	0			20 A	SPARE	64
65	AUTODOORS	20 A					600	0	20 A	SPARE	66
67	SPARE	20 A	0	0					20 A	SPARE	68
69	SPARE	20 A			0	0			20 A	SPARE	70
71	SPARE	20 A					0	0	20 A	SPARE	72
73	SPARE	20 A	0	0					20 A	SPARE	74
75	SPARE	20 A			0	0			20 A	SPARE	76
77	SPARE	20 A					0	0	20 A	SPARE	78
79	SPARE	20 A	0	0					20 A	SPARE	80
81	SPARE	20 A			0	0			20 A	SPARE	82
83	SPARE	20 A					0	0	20 A	SPARE	84
	Total Load:		17112 VA		19660 VA		18480 VA				
	Total Amps:		143 A		166 A		156 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	100 VA	125.00%	125 VA		
Receptacle	35786 VA	63.97%	22893 VA	**Total Conn. Load:**	55252 VA
Motor	600 VA	112.50%	675 VA	**Total Est. Demand:**	42237 VA
Appliance	2220 VA	90.00%	1998 VA	**Total Conn.:**	153 A
Equipment	16546 VA	100.00%	16546 VA	**Total Est. Demand:**	117 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BH4

Location: ELECTRICAL 4D21E
Supply From: TAP-BH4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 25,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 70 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-ROOM 4B62, 4B63, 4B67, 4B64...	20 A	3698	3662					20 A	L-ROOM 4CCOR07, 4DCOR06,...	2	
	3	L-ROOM 4D21E, 4D27, 4D26, 4C4...	20 A			3574	0			20 A	SPARE	4	
	5	L-ROOM 4C10, 4C12, 4C14, 4C16...	20 A					3485	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
		Total Load:		7360 VA		3574 VA		3485 VA					
		Total Amps:		27 A		13 A		13 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	15013 VA	125.00%	18767 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	15013 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	18767 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	18 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	23 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BL4A BH4 BL4B

ISSUED FOR CONSTRUCTION

Revisions:		
1	ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 CAVEO PROJECT: 13-2331 06/06/2014 ENGINEER RYAN J. ANNI 8-1-2014

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Drawing Title: **AREA B NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E619**

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U.S. Department of Veterans Affairs

VA FORM 08-6231

8/5/2014 3:08:07 PM

BL5A

Location: ELECTRICAL 5D14E
Supply From: T-BL5A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	R-RECOVERY 5C31	20 A	360	360					20 A	R-RECOVERY 5C31	2	
	3	R-RECOVERY 5C31	20 A			360	360			20 A	R-RECOVERY 5C31	4	
	5	R-RECOVERY 5C31	20 A					360	360	20 A	R-RECOVERY 5C31	6	
	7	R-RECOVERY 5C31	20 A	360	360					20 A	R-RECOVERY 5C31	8	
	9	R-RECOVERY 5C31	20 A			360	360			20 A	R-RECOVERY 5C31	10	
	11	R-RECOVERY 5C31	20 A					360	360	20 A	R-RECOVERY 5C31	12	
	13	L-X-RAY SP PROCEDURE 5C23	20 A	100	1260					20 A	BEDS 5C31, 5C32, 5C29	14	
	15	EQUIPMENT ROOM 5C25, 5C26,...	20 A			1260	540			20 A	RECOVERY 5C50	16	
	17	BEDS 5C50, 5C49, 5C48	20 A					1260	1260	20 A	BEDS 5C44, 5C45, 5C43	18	
	19	R-RECOVERY 5C49	20 A	540	540					20 A	R-RECOVERY 5C48	20	
	21	R-RECOVERY 5C45	20 A			540	540			20 A	R-RECOVERY 5C44	22	
	23	R-ISOL. 5C43	20 A					540	540	20 A	R-RECOVERY 5C32	24	
	25	R-RECOVERY 5C31	20 A	540	540					20 A	R-RECOVERY 5C29	26	
	27	R-RECOVERY 5C27	20 A			540	540			20 A	R-RECOVERY 5C26	28	
	29	R-RECOVERY 5C25	20 A					540	1040	20 A	R-MED PREP 5C38	30	
	31	R-SP PROCEDURE 5C23	20 A	420	540					20 A	R-SP PROCEDURE 5C23	32	
	33	R-INSTR PREP 5C21	20 A			1080	1080			20 A	R-ROOM 5C24, 5C28, 5CCOR04,...	34	
	35	R-ROOM 5B17, 5C39, 5B18,...	20 A					1260	720	20 A	R-ROOM 5C42E, 5CCOR14	36	
	37	R-NURSE STATION 5C41	20 A	540	540					20 A	R-NURSE STATION 5C34	38	
	39	R-NURSE 5C56	20 A			540	540			20 A	R-NURSE 5C56	40	
	41	R-ROOM 5C53, 5C52, 5C54, 5C5...	20 A					900	360	20 A	R-PRE-OP ISOL. 5C58	42	
	43	R-PRE-OP 5C57	20 A	360	360					20 A	R-PRE-OP 5C54	44	
	45	R-PRE-OP 5C53	20 A			360	360			20 A	R-RECOVERY 5C31	46	
	47	R-PRE-OP 5C54	20 A					360	360	20 A	R-PRE-OP 5C52	48	
	49	SINK SENSORS	20 A	8	1260					20 A	BEDS 5C06, 5C14, 5C12	50	
	51	R-ROOM 5C11, 5C13	20 A			720	1200			20 A	MICROWAVE NOUR 5C42E	52	
	53	R-PRE-OP 5C57	20 A					360	360	20 A	R-PRE-OP, ISO 5C58	54	
	55	APPLIANCE NOUR 5C42E	20 A	180	900					20 A	R-ROOM 5C06, 5C14, 5C12	56	
	57	R-ROOM 5C06, 5C07	20 A			720	500			20 A	R-CONTROL 5C07	58	
	59	R-CONTROL 5C07	20 A					360	360	20 A	MONITORS 5C14, 5C12	60	
	61	MONITORS 5C11, 5C13	20 A	360	1080					20 A	R-EGD PROC. 5C12, 5C14	62	
	63	R-ROOM 5C11, 5C13	20 A			1080	680			20 A	R-EGD PROC. 5C12	64	
	65	R-ROOM 5C21, 5C22, 5CCOR05,...	20 A					900	1080	20 A	R-ROOM 5C09, 5CCOR03, 5C10	66	
	67	R-CONTROL 5C19	20 A	540	840					20 A	R-ROOM 5C11, 5C13	68	
	69	SPARE	20 A			0	0			20 A	SPARE	70	
	71	SPARE	20 A					0	0	20 A	SPARE	72	
	73	SPARE	20 A	0	0					20 A	SPARE	74	
	75	SPARE	20 A			0	0			20 A	SPARE	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
--	101	SPACE	--					0	0	--	SPACE	102	--
--	103	SPACE	--	0	0					--	SPACE	104	--
--	105	SPACE	--			0	0			--	SPACE	106	--
--	107	SPACE	--					0	0	--	SPACE	108	--
--	109	SPACE	--	0	0					--	SPACE	110	--
--	111	SPACE	--			0	0			--	SPACE	112	--
--	113	SPACE	--					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE	--	0	0					--	SPACE	122	--
--	123	SPACE	--			0	0			--	SPACE	124	--
--	125	SPACE	--					0	0	--	SPACE	126	--
			Total Load:	12888 VA		14260 VA		14000 VA					
			Total Amps:	107 A		120 A		118 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	100 VA	125.00%	125 VA		
Receptacle	34620 VA	64.44%	22310 VA	**Total Conn. Load:**	41148 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	28863 VA
Appliance	1380 VA	100.00%	1380 VA	**Total Conn.:**	114 A
Equipment	5048 VA	100.00%	5048 VA	**Total Est. Demand:**	80 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BH5

Location: ELECTRICAL 5D14E
Supply From: TAP-BH4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 25,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 70 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-ROOM 5C18, 5C21, 5C09, 5C11...	20 A	1862	0					20 A	SPARE	2	
	3	L-ROOM 5DCOR03, 5DCOR04,...	20 A			2702	0			20 A	SPARE	4	
	5	L-TOILET, STAFF 5C04R	20 A					2929	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	1862 VA		2702 VA		2929 VA					
			Total Amps:	7 A		10 A		11 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	8093 VA	125.00%	10116 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	8093 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	10116 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	10 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	12 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BL5B

Location: ELECTRICAL 5D14E
Supply From: T-BL5B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	5	466					20 A	R-STAFF LOUNGE 5C02	2	
	3	APPLIANCE STAFF LOUNGE 5C02	20 A			180	660			20 A	R-CONF/WORK 5D12	4	
	5	R-COPY RM 5D33	20 A					180	900	20 A	R-CONSENT 5D09	6	
	7	R-ROOM 5C01, 5C03, 5C04,...	20 A	900	1200					20 A	MICROWAVE STAFF LOUNGE...	8	
	9	R-RECEPTION 5D17	20 A			1080	1080			20 A	R-ROOM 5D05R, 5D06R,...	10	
	11	R-ROOM 5D31, 5D32	20 A					1000	1500	20 A	COPIER COPY RM 5D33	12	
	13	R-MP EXAM 5D21	20 A	1440	1500					20 A	COFFEE MAKER STAFF LOUNG...	14	
	15	SPARE	20 A			0	1260			20 A	R-WAIT 5D16, PRINTER RECPT...	16	
	17	R-NERVE BLOCK 5B16	20 A					1920	0	20 A	SPARE	18	
	19	R-PRE-OP 5C68	20 A	360	360					20 A	R-PRE-OP 5C64	20	
	21	R-PRE-OP 5C68	20 A			360	360			20 A	R-PRE-OP 5C67	22	
	23	R-PRE-OP 5C67	20 A					360	360	20 A	R-PRE-OP 5C64	24	
	25	R-PRE-OP 5C63	20 A	360	720					20 A	R-DICT / VIEW 5D11	26	
	27	R-PRE-OP 5C63	20 A			360	360			20 A	R-ELECTRICAL 5D14E	28	
	29	FRIDGE STAFF LOUNGE 5C02	20 A					540	540	20 A	R-STRCHR/WC 5C62	30	
	31	R-CONF/WORK 5D12	20 A	540	720					20 A	R-STAFF WORK 5D31	32	
	33	R-WAITING AREA, FAMILY 5D07	20 A			720	720			20 A	R-STAFF WORK AREA 5D32	34	
	35	R-ROOM 5D18, 5D17	20 A					720	720	20 A	R-STAFF WORK 5D31	36	
	37	R-SPEC. RECV. 5D19	20 A	720	720					20 A	R-OFFICE / EXAM 5D23	38	
	39	R-ROOM 5D03, 5D04T	20 A			720	720			20 A	R-ROOM 5C68, 5C67, 5C64, 5C63	40	
	41	R-DICT / VIEW 5D11	20 A					720	720	20 A	R-NERVE BLOCK 5B16	42	
	43	R-GI INFUSION 5D47	20 A	720	900					20 A	R-ROOM 5D26, 5D29, 5D31	44	
	45	R-WAITING AREA 5D08	20 A			900	900			20 A	R-ROOM 5DCOR04, 5D08, 5D27,...	46	
	47	R-ROOM 5D21, 5D22, 5D24, 5D25	20 A					1540	0	20 A	SPARE	48	
	49	R-ROOM 5D21, 5D22, 5D24, 5D25	20 A	1080	1440					20 A	TABLE MP EXAM 5D22	50	
	51	R-ROOM 5D22, 5D24, 5D25	20 A			1540	1440			20 A	TABLE MP EXAM 5D24	52	
	53	TABLE MP EXAM 5D25	20 A					1440	1500	20 A	VENDING BLIND VENDING 5D01	54	
	55	COPIER COPY RM 5D34	20 A	1500	180					20 A	DRINKING FOUNTAIN CORRIDO...	56	
	57	VENDING BLIND VENDING 5D01	20 A			1500	180			20 A	DRINKING FOUNTAIN WAITING...	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
	67	SPARE	20 A	0	0					20 A	SPARE	68	
	69	SPARE	20 A			0	0			20 A	SPARE	70	
	71	SPARE	20 A					0	0	20 A	SPARE	72	
	73	SPARE	20 A	0	0					20 A	SPARE	74	
	75	SPARE	20 A			0	0			20 A	SPARE	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					--	SPACE	80	--
	81	SPARE	20 A			0	0			--	SPACE	82	--
--	83	SPACE	--					0	0	--	SPACE	84	--
			Total Load:	15831 VA		15040 VA		14660 VA					
			Total Amps:	132 A		126 A		122 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	28586 VA	67.49%	19293 VA	**Total Conn. Load:**	45531 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	34852 VA
Appliance	4620 VA	70.00%	3234 VA	**Total Conn.:**	126 A
Equipment	12325 VA	100.00%	12325 VA	**Total Est. Demand:**	97 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BL5A BH5 BL5B

ISSUED FOR CONSTRUCTION

Revisions:	Date
1 ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title: **AREA B NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number:

Drawing Number: **E620**

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U.S. Department of Veterans Affairs

VA FORM 08-6231

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BHP

Location: ELECTRICAL 6D03E
Supply From: BH3A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 30,000
Mains Type: MCB
Bus Rating: 600 A
MCB Rating: 600 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-ROOM 6D02, 6D01, 6D03E	20 A	1110	903							2	
--	3	SPACE	--			0	903			15 A	EF-6B03	4	
	5							3027	903			6	
	7	T-BLP	35 A	3783	903							8	
	9					4394	903			15 A	EF-6B11	10	
	11							903	903			12	
	13	EF-6B12	15 A	903	903							14	
	15					903	903			15 A	EF-6B02	16	
	17							903	903			18	
	19	EF-6B06	15 A	903	2258							20	
	21					903	2258			15 A	MUA-1-C1 CONDENSOR-1	22	
	23							2258	2258			24	
	25	MUA-1-C2 CONDENSOR-2	15 A	2258	2258							26	
	27					2258	2258			15 A	MUA-1-C3 CONDENSOR-3	28	
	29							6108	2258			30	
	31	AHU-6-R1 RETURN FAN 6D01	50 A	6108	6108							32	
	33					6108	6108			50 A	AHU-6-R2 RETURN FAN 6D01	34	
	35							6108	6108			36	
	37	AHU-8-R2 RETURN FAN 6D01	50 A	6108	6108							38	
	39					6108	6108			50 A	AHU-8-R1 RETURN FAN 6D01	40	
	41							10092	6108			42	
	43	AHU-6-S1 SUPPLY FAN-1 6D01	60 A	10092	10092							44	
	45					10092	10092			60 A	AHU-6-S2 SUPPLY FAN-2	46	
	47							11686	10092			48	
	49	AHU-8-S1 SUPPLY FAN MECHANICAL 6D01	70 A	11686	11686							50	
	51					11686	11686			70 A	AHU-8-S2 6D01	52	
	53							15146	11686			54	
[1]	55	ELEV-8	60 A	15146	1806							56	
	57					15146	1806			15 A	MUA-1 FAN-MAKE-UP AIR UNIT-1	58	
--	59	SPACE	--					0	1806			60	
--	61	SPACE - 3POLE	--	0	0					--	SPACE - 3 POLE	62	--
--	63	-	--			0	0			--	-	64	--
--	65	-	--					0	0	--	-	66	--
--	67	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	68	--
--	69	-	--			0	0			--	-	70	--
--	71	-	--					0	0	--	-	72	--
--	73	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	74	--
--	75	-	--			0	0			--	-	76	--
--	77	-	--					0	0	--	-	78	--
--	79	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	80	--
--	81	-	--			0	0			--	-	82	--
--	83	-	--					0	0	--	-	84	--
			Total Load:	101123 VA		100623 VA		99256 VA					
			Total Amps:	366 A		364 A		358 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	1154 VA	125.00%	1443 VA		
Receptacle	3240 VA	100.00%	3240 VA	**Total Conn. Load:**	301046 VA
Motor	248914 VA	103.52%	257678 VA	**Total Est. Demand:**	310099 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	362 A
Equipment	2300 VA	100.00%	2300 VA	**Total Est. Demand:**	373 A
Heating	0 VA	0.00%	0 VA		
Elevator	45438 VA	100.00%	45438 VA		

Notes:
1. PROVIDE SHUNT TRIP CIRCUIT BREAKER.

BLP

Location: ELECTRICAL 6D03E
Supply From: T-BLP
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	VAV XFMR CP 6D02	20 A	100	720					20 A	R-PENTHOUSE ROOF	2	
	3	EF-6B05	20 A			696	900			20 A	R-PENTHOUSE ROOF	4	
	5	R-ELECTRICAL 6D03E	20 A					540	1587	30 A	EF-6B01	6	
	7	R-PENTHOUSE ROOF	20 A	1080	1127					20 A	EF-6B07	8	
	9	EF-6B08	20 A			1587	0			20 A	SPARE	10	
	11	EF-6B04	20 A					667	1000	20 A	MUA-1 120V POWER	12	
	13	SPARE	20 A	0	0					20 A	SPARE	14	
	15	H-8 HUMIDIFIER FOR AHU-8	20 A			600	0			20 A	SPARE	16	
	17	H-6 HUMIDIFIER FOR AHU-6	20 A					600	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	--	SPACE	24	--
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	3027 VA		3783 VA		4394 VA					
			Total Amps:	25 A		32 A		38 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	3240 VA	100.00%	3240 VA	**Total Conn. Load:**	11204 VA
Motor	5664 VA	107.00%	6061 VA	**Total Est. Demand:**	11601 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	31 A
Equipment	2300 VA	100.00%	2300 VA	**Total Est. Demand:**	32 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

N-ISO-5C18

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1
Branch: NORMAL
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MAIN CIRCUIT BREAKER SHALL SELECTIVELY COORDINATE WITH BRANCH CIRCUIT BREAKERS.

Pri. AIC Rating:
Primary Volts: 480 V
Phases: 1
Primary Wires: 2#10 (L-L)
Primary MCB: 30 A

Iso-Transformer: 10kVA
Secondary Volts: 120 V
Phases: 1
Wires: 2 (L-L)
Secondary MCB: 0 A

	CKT	Circuit Description	Trip	L1		L2		Trip	Circuit Description	CKT	
	1	R-CYSTO OP 5C18	20 A	180	180			20 A	R-CYSTO OP 5C18	2	
	3	SPARE	20 A			0	360	20 A	R-CYSTO OP 5C18	4	
	5	R-CYSTO OP 5C18	20 A	360	0			20 A	SPARE	6	
	7	SPARE	20 A			0	0	20 A	SPARE	8	
	9	SPARE	20 A	0	0			20 A	SPARE	10	
--	11	SPACE	--			0	0	--	SPACE	12	--
--	13	SPACE	--	0	0			--	SPACE	14	--
--	15	SPACE	--			0	0	--	SPACE	16	--
			Total Load:	720 VA		360 VA					
			Total Amps:	6 A		3 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	1080 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	1080 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	5 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	5 A
Heating	0 VA	0.00%	0 VA		

Notes:

BHP BLP
N-ISO-5C18

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 CAVEO PROJECT: 13-2391 06/09/2014 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title: **AREA B NORMAL PANEL SCHEDULES**
Approved: Project Director

Project Title: VA Charlotte Health Care Center
Location: Charlotte, NC
Date: 07/21/2014 Checked: RJA Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081
Building Number:
Drawing Number: **E621**
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VA FORM 08-6231

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BLC1T

Location: TELECOM 1D17T
Supply From: T-BLC1T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-TELCOMM 1D17T	20 A	320	540					20 A	R-ESCORT 1D18	2	
	3	R-ROOM 1D17T, 1D18	20 A			540	1250			20 A	R-TELECOM 1D17T	4	
	5	R-TELECOM 1D17T	20 A					1250	1250	20 A	R-TELECOM 1D17T	6	
	7	R-TELECOM 1D17T	20 A	1250	50					20 A	FCU-1B01	8	
	9	SPARE-BUILDING PANEL	20 A			0	50					10	
	11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 1D17T	12	
	13	R-TELECOM 1D17T	20 A	1250	1250					20 A	R-TELECOM 1D17T	14	
	15	R-TELECOM 1D17T	20 A			1250	0			20 A	SPARE-BUILDING PANEL	16	
	17	SPARE-BUILDING PANEL	20 A					0	0	20 A	SPARE-BUILDING PANEL	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	20 A	SPARE	24	
	25	SPARE	20 A	0	0					--	SPACE	26	--
	27	SPARE	20 A			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	4660 VA		3090 VA		3750 VA					
			Total Amps:	40 A		26 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	320 VA	125.00%	400 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11500 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11605 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	32 A
Equipment	10000 VA	100.00%	10000 VA	**Total Est. Demand:**	32 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BLC2T

Location: TELECOM 2D13T
Supply From: T-BLC2T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-TELCOMM 2D12T	20 A	320	540					20 A	R-ROOM 2D12T, 2D13	2	
	3	R-W/C STO 2D13	20 A			540	1250			20 A	R-TELECOM 2D13T	4	
	5	R-TELECOM 2D13T	20 A					1250	1250	20 A	R-TELECOM 2D13T	6	
	7	R-TELECOM 2D13T	20 A	1250	50					20 A	FCU-2B01	8	
	9	SPARE-BUILDING PANEL	20 A			0	50					10	
	11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 2D13T	12	
	13	R-TELECOM 2D13T	20 A	1250	1250					20 A	R-TELECOM 2D13T	14	
	15	R-TELECOM 2D13T	20 A			1250	0			20 A	SPARE-BUILDING PANEL	16	
	17	SPARE	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	20 A	SPARE	24	
	25	SPARE	20 A	0	0					--	SPACE	26	--
	27	SPARE	20 A			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	4660 VA		3090 VA		3750 VA					
			Total Amps:	40 A		26 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	320 VA	125.00%	400 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11500 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11605 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	32 A
Equipment	10000 VA	100.00%	10000 VA	**Total Est. Demand:**	32 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

B-EM-SWGR

Location: ELECTRICAL 0D39E
Supply From: 1360ekW PRIME RATED GENERATOR
Mounting: Surface
Enclosure: Type 1
Notes: PROVIDE 100% RATED MAIN CIRCUIT BREAKER. EACH BRANCH OF EMERGENCY POWER SHALL BE IN ITS OWN SECTION.

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: EMERGENCY

AIC Rating: 30,000
Mains Type: MCB
Mains Rating: 2000 A
MCB Rating: 1800 A

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	ATS-EQ2	3	600 A	600 A	320815 VA	
2	ATS-CR1	3	1200 A	600 A	427251 VA	
3	ATS-LS2	3	1200 A	250 A	42989 VA	
4	ATS-EQ3	3	400 A	400 A	292559 VA	
5	ATS-CR2	3	400 A	400 A	180919 VA	
6	SPACE - 3 POLE	--	--	--	0 VA	--
7	SPACE - 3 POLE	--	--	--	0 VA	--
8	SPACE - 3 POLE	--	--	--	0 VA	--
9	SPACE - 3 POLE	--	--	--	0 VA	--
10	SPACE - 3 POLE	--	--	--	0 VA	--
11	SPACE - 3 POLE	--	--	--	0 VA	--
12						
13						
14						
15						
				Total Conn. Load:	1293816 VA	
				Total Amps:	1556 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Elevator	269076 VA	72.00%	193735 VA		
Equipment	417939 VA	100.00%	417939 VA	**Total Conn. Load:**	1293816 VA
Heating	3240 VA	100.00%	3240 VA	**Total Est. Demand:**	1156917 VA
Lighting	71343 VA	125.00%	89179 VA	**Total Conn.:**	1556 A
Motor	331230 VA	102.65%	339994 VA	**Total Est. Demand:**	1392 A
Other	1006 VA	100.00%	1006 VA		
Power	500 VA	100.00%	500 VA		
Receptacle	155592 VA	53.21%	82796 VA		
Appliance	43890 VA	65.00%	28529 VA		

Notes:

BLC3T

Location: TELECOM 3D04T
Supply From: T-BLC3T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-TELCOMM 3D03T	20 A	320	540					20 A	R-ROOM 3D03T, 3D04	2	
	3	R-W/C STO 3D04	20 A			540	1250			20 A	R-TELECOM 3D04T	4	
	5	R-TELECOM 3D04T	20 A					1250	1250	20 A	R-TELECOM 3D04T	6	
	7	R-TELECOM 3D04T	20 A	1250	50					20 A	FCU-3B01	8	
	9	SPARE-BUILDING PANEL	20 A			0	50					10	
	11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 3D04T	12	
	13	R-TELECOM 3D04T	20 A	1250	1250					20 A	R-TELECOM 3D04T	14	
	15	R-TELECOM 3D04T	20 A			1250	0			20 A	SPARE	16	
	17	SPARE-BUILDING PANEL	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	20 A	SPARE	24	
	25	SPARE	20 A	0	0					--	SPACE	26	--
	27	SPARE	20 A			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	4660 VA		3090 VA		3750 VA					
			Total Amps:	40 A		26 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	320 VA	125.00%	400 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11500 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11605 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	32 A
Equipment	10000 VA	100.00%	10000 VA	**Total Est. Demand:**	32 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BLC4T

Location: TELECOM 4D03T
Supply From: T-BLC4T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-TELCOMM 4D03T	20 A	192	540					20 A	R-ROOM 4D03T, 4D04	2	
	3	R-ROOM 4D04, 4D03T	20 A			540	1250			20 A	R-TELECOM 4D03T	4	
	5	R-TELECOM 4D03T	20 A					1250	1250	20 A	R-TELECOM 4D03T	6	
	7	R-TELECOM 4D03T	20 A	1250	50					20 A	FCU-4B01	8	
	9	SPARE-BUILDING PANEL	20 A			0	50					10	
	11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 4D03T	12	
	13	R-TELECOM 4D03T	20 A	1250	1250					20 A	R-TELECOM 4D03T	14	
	15	R-TELECOM 4D03T	20 A			1250	0			20 A	SPARE	16	
	17	SPARE-BUILDING PANEL	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	20 A	SPARE	24	
	25	SPARE	20 A	0	0					--	SPACE	26	--
	27	SPARE	20 A			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	4532 VA		3090 VA		3750 VA					
			Total Amps:	39 A		26 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	192 VA	125.00%	240 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11372 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11445 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	32 A
Equipment	10000 VA	100.00%	10000 VA	**Total Est. Demand:**	32 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BHSG

Location: ELECTRICAL 0D37E
Supply From: ATS-LS2
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: BUS RATING MAY BE REDUCED IF FULL SELECTIVE COORDINATION IS ACHIEVED.

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 25,000
Mains Type: MLO
Bus Rating: 250 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			11044	0					--	SPACE	2	--
	3	AREA C LIFE SAFETY RISER	125 A			7516	14403					4	
	5							6896	3217	125 A	AREA A LIFE SAFETY RISER	6	
	7	L-ROOM 0DCOR02, 0C17,....	20 A	1565	2335							8	
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	-	--			0	0			--	-	16	--
--	17	-	--					0	0	--	-	18	--
			Total Load:	14944 VA		21919 VA		10113 VA					
			Total Amps:	57 A		82 A		37 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	36835 VA	125.00%	46043 VA		
Receptacle	2340 VA	100.00%	2340 VA	**Total Conn. Load:**	59740 VA
Motor	12809 VA	111.82%	14323 VA	**Total Est. Demand:**	70162 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	72 A
Equipment	4250 VA	100.00%	4250 VA	**Total Est. Demand:**	84 A
Heating	0 VA	0.00%	0 VA		
Elevator	2000 VA	85.00%	1700 VA		

Notes:

BLC1T BLC2T B-EM-SWGR
BLC3T BLC4T BHSG

ISSUED FOR CONSTRUCTION

Revisions: | Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ANNI 8-1-2014

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Drawing Title: **AREA B EMERGENCY PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Project Number: SFO# VA-101-10-RP-0081

Building Number

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Drawing Number: E622

Dwg. of

U.S. Department of Veterans Affairs

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BLC5T

Location: TELECOM 5D04T
Supply From: T-BLC5T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-TELCOMM 5D04T	20 A	448	540					20 A	R-ROOM 5D04T, 5D03	2	
	3	R-W/C STO 5D03	20 A			540	1250			20 A	R-W/C STO 5D03	4	
	5	R-W/C STO 5D03	20 A					1250	1250	20 A	R-W/C STO 5D03	6	
	7	R-W/C STO 5D03	20 A	1250	50					20 A	FCU-5B01	8	
	9	SPARE-BUILDING PANEL	20 A			0	50					10	
	11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 5D04T	12	
	13	R-TELECOM 5D04T	20 A	1250	1250					20 A	R-TELECOM 5D04T	14	
	15	R-TELECOM 5D04T	20 A			1250	0			20 A	SPARE	16	
	17	SPARE-BUILDING PANEL	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	20 A	SPARE	24	
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	4788 VA		3090 VA		3750 VA					
			Total Amps:	41 A		26 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	448 VA	125.00%	560 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11628 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11765 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	32 A
Equipment	10000 VA	100.00%	10000 VA	**Total Est. Demand:**	33 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

PLC1

Location: ELEC RM 1C25E
Supply From: T-PLC1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 150 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	FRIDGE PATIENT DOSE-POST...	20 A	156	360					20 A	R-ELECTRICAL 1D53E	2	
	3	FRIDGE	20 A			180	360			20 A	R-ELECTRICAL 2D31E	4	
	5	AUTODOOR PHARMACY	20 A					300	500	20 A	VAV XFMR CP 1A29	6	
	7	EF-1B02	20 A	506	568					20 A	FRIDGE IV ADMIX 1C11	8	
	9	EF-1B03	20 A			506	600			20 A	R-ACTIVE STORAGE 1C13	10	
	11	R-FILLING/ DISPENSING 1C20	20 A					540	720	20 A	R-ROOM 1B53, 1B45	12	
	13	R-VAULT 1C07	20 A	860	960					20 A	FRIDGE VAULT 1C07	14	
	15	ROBOTIC DISPENSOR-ACTIVE...	20 A			1920	156			20 A	FRIDGE UPTAKE 1B14	16	
	17	UC FRIDGE ACTIVE STORAGE...	20 A					960	1000	20 A	VAV XFMR CP 1BCOR03, 1C29	18	
	19	SPARE	20 A	0	156					20 A	FRIDGE RADIO PHARM 1B12	20	
	21	SPARE	20 A			0	180			20 A	R-MED 3D25	22	
	23	ROBOTIC DISPENSOR-VAULT...	20 A					1920	150	20 A	FCU-1B02,1B03,1B04	24	
	25	R-MED 2C21	20 A	180	150					--	SPACE	26	--
	27	R-MED 1B44	20 A			180	180			20 A	R-CRASH CART 2D39	28	
	29	FRIDGE UPTAKE 1B15	20 A					156	180	20 A	R-MED 3D44	30	
	31	R-ELEC RM 1C25E	20 A	180	180					20 A	R-CRASH CART 1B47	32	
	33	GLOVE BOX IV ADMIX 1C11	20 A			180	180			20 A	FRIDGE MED 2C21	34	
	35	R-MED 1B44	20 A					180	180	20 A	R-CRASH CART 3D32	36	
	37	FRIDGE MED 3D44	20 A	180	180					20 A	FRIDGE MED 1B44	38	
	39	UC FRIDGE LAB WORK 3D12	20 A			1488	1656			20 A	FREEZER-ACTIVE STORAGE	40	
	41	R-MED 3C22	20 A					180	180	20 A	FRIDGE MED 3D25	42	
	43	UC FRIDGE LAB WORK 1D29	20 A	1488	1656					20 A	FREEZER ACTIVE STORAGE 1C13	44	
	45	SPARE	20 A			0	0			20 A	SPARE	46	
	47	FRIDGE LAB WORK 2D21	20 A					1488	1656	20 A	FREEZER-ACTIVE STORAGE	48	
	49	SPARE	20 A	0	0					20 A	SPARE	50	
	51	SPARE	20 A			0	0			20 A	SPARE	52	
	53	SPARE	20 A					0	0	20 A	SPARE	54	
	55	SPARE	20 A	0	0					20 A	SPARE	56	
	57	SPARE	20 A			0	0			20 A	SPARE	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
	67	SPARE	20 A	0	0					20 A	SPARE	68	
--	69	SPACE	--			0	0			--	SPACE	70	--
--	71	SPACE	--					0	0	--	SPACE	72	--
--	73	SPACE	--	0	0					--	SPACE	74	--
--	75	SPACE	--			0	0			--	SPACE	76	--
--	77	SPACE	--					0	0	--	SPACE	78	--
--	79	SPACE	--	0	0					--	SPACE	80	--
--	81	SPACE	--			0	0			--	SPACE	82	--
--	83	SPACE	--					0	0	--	SPACE	84	--
			Total Load:	7760 VA		7766 VA		10290 VA					
			Total Amps:	65 A		65 A		86 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	4520 VA	100.00%	4520 VA	**Total Conn. Load:**	25816 VA
Motor	1612 VA	107.85%	1739 VA	**Total Est. Demand:**	21237 VA
Appliance	13444 VA	65.00%	8739 VA	**Total Conn.:**	72 A
Equipment	6240 VA	100.00%	6240 VA	**Total Est. Demand:**	59 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

MCLCG

Location: PASSIVE DIST. 0B38
Supply From: T-MCLCG
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	BAS BUILDING AUTO. SYS....	20 A	500	1250					20 A	EQUIPMENT MCR 0B39	2	
	3	R-MCR 0B39	20 A			540	720			20 A	R-ROOM 0B39, 0B38	4	
	5	208V EQUIPMENT PASSIVE DIST.	20 A					2500	540	20 A	R-TELCOMM 0D09T	6	
	7	0B38		2500	50					20 A	FCU-0B04	8	
	9	L-MCR 0B39	20 A			1792	50					10	
	11	EQUIPMENT TELCOMM 0D09T	20 A					1250	1250	20 A	EQUIPMENT TELCOMM 0D09T	12	
	13	R-ROOM 0B38, 0B39	20 A	540	1250					20 A	EQUIPMENT TELCOMM 0D09T	14	
	15	R-PASSIVE DIST. 0B38	20 A			1250	540			20 A	R-TELCOMM 0D09T	16	
	17	R-PASSIVE DIST. 0B38	20 A					1250	1250	20 A	EQUIPMENT PASSIVE DIST. 0B38	18	
	19	EQUIPMENT PASSIVE DIST. 0B38	20 A	1250	1250					20 A	EQUIPMENT PASSIVE DIST. 0B38	20	
	21	EQUIPMENT TELCOMM 0D09T	20 A			1250	1250			20 A	EQUIPMENT PASSIVE DIST. 0B38	22	
	23	EQUIPMENT PASSIVE DIST. 0B38	20 A					1250	1250	20 A	EQUIPMENT MCR 0B39	24	
	25	EQUIPMENT MCR 0B39	20 A	1250	1250					20 A	EQUIPMENT MCR 0B39	26	
	27	EQUIPMENT PASSIVE DIST. 0B38	20 A			1250	1250			20 A	EQUIPMENT MCR 0B39	28	
	29	RECEPTACLE PASSIVE DIST....	20 A					1250	1250	20 A	RECEPTACLE PASSIVE DIST....	30	
	31	RECEPTACLE PASSIVE DIST....	20 A	1250	1250					20 A	RECEPTACLE TELECOM 0D09T	32	
	33	EQUIPMENT MCR 0B39	20 A			1250	1250			20 A	RECEPTACLE TELECOM 0D09T	34	
	35	208V EQUIPMENT MCR 0B39	20 A					2500	1250	20 A	RECEPTACLE TELECOM 0D09T	36	
	37			2500	0					20 A	SPARE	38	
	39	R-PASSIVE DIST. 0B38	20 A			1250	0			20 A	SPARE	40	
	41	R-PASSIVE DIST. 0B38	20 A					1250	0	20 A	SPARE	42	
	43	R-MCR 0B39	20 A	1250	0					20 A	SPARE	44	
	45	R-MCR 0B39	20 A			1250	0			20 A	SPARE	46	
	47	R-MCR 0B39	20 A					1250	0	20 A	SPARE	48	
	49	R-TELECOM 0D09T	20 A	1250	0					20 A	SPARE	50	
	51	SPARE	20 A			0	0			20 A	SPARE	52	
	53	SPARE	20 A					0	0	20 A	SPARE	54	
	55	SPARE	20 A	0	0					20 A	SPARE	56	
	57	SPARE	20 A			0	0			20 A	SPARE	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
--	67	SPACE	--	0	0					--	SPACE	68	--
--	69	SPACE	--			0	0			--	SPACE	70	--
--	71	SPACE	--					0	0	--	SPACE	72	--
			Total Load:	18590 VA		14892 VA		19290 VA					
			Total Amps:	160 A		124 A		165 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	1792 VA	125.00%	2240 VA		
Receptacle	40380 VA	62.38%	25190 VA	**Total Conn. Load:**	52772 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	38055 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	146 A
Equipment	10500 VA	100.00%	10500 VA	**Total Est. Demand:**	106 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BHCG

Location: ELECTRICAL 0D37E
Supply From: ATS-CR1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 30,000
Mains Type: MLO
Bus Rating: 600 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			16733	7760							2	
	3	T-ALCG	125 A			13623	7766			70 A	T-PLC1	4	
	5							13689	10290			6	
--	7	SPACE	--	0	0					--	SPACE	8	--
--	9	SPACE	--			0	23225					10	
	11							20361	15450	125 A	B1-WW-T	12	
	13	T-CLC1	125 A	15616	18750							14	
	15					19551	0			--	SPACE	16	--
--	17	SPACE	--					0	22958			18	
	19			22950	17456					125 A	C1-WW-T	20	
	21	A1-WW-T	125 A			18697	18750					22	
	23							17500	0			24	
--	25	SPACE	--	0	0					250 A	UPS-MC	26	[1]
	27					18590	0					28	
[1]	29	UPS-MC	250 A					14813	5949			30	
	31			19290	5949					35 A	VAC-1 MEDICAL VACUUM PUMP	32	
	33					12747	5949					34	
	35	STEAM STERILIZER-1 0B22	60 A					12747	5843			36	
	37			12747	5843					35 A	MAC -1 MEDICAL AIR COMPRESSOR	38	
--	39	SPACE	--			0	5843					40	
--	41	SPACE	--					0	0	--	-	42	--
--	43	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	44	--
--	45	-	--			0	0			--	-	46	--
--	47	-	--					0	0	--	-	48	--
--	49	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	50	--
--	51	-	--			0	0			--	-	52	--
--	53	-	--					0	0	--	-	54	--
			Total Load:	143094 VA		144741 VA		139600 VA					
			Total Amps:	519 A		524 A		504 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	13423 VA	125.00%	16779 VA		
Receptacle	83940 VA	55.96%	46970 VA	**Total Conn. Load:**	432722 VA
Motor	42171 VA	110.58%	46633 VA	**Total Est. Demand:**	395025 VA
Appliance	24412 VA	65.00%	15868 VA	**Total Conn.:**	520 A
Equipment	268776 VA	100.00%	268776 VA	**Total Est. Demand:**	475 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:
1. A SHUNT TRIP CIRCUIT BREAKER MAY BE NEEDED TO INTERFACE WITH EPO BUTTON FOR THE UPS IN THE MAIN COMPUTER ROOM.

CFL1

Location: STORAGE 1D15
Supply From: BL1B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch:

AIC Rating: 10,000
Mains Type: MLO
Bus Rating: 100 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	C15 CASH REGISTER VENDING...	20 A	300	480					20 A	C5 UC FRIDGE VENDING 1D14	2	
	3	C7 ICE MAKER VENDING 1D14	20 A			670	0			20 A	SPARE	4	
	5	M2 SELF-SERVE MERCHANDISER	20 A					700	1440	20 A	C11 BLENDER VENDING 1D14	6	
	7	K17 FRIDGE/FREEZER	20 A	1920	2704							8	
	9	SPARE	20 A			0	2704			20 A	C8 COFFEE VENDING 1D14	10	
	11	C1 PASTRY CASE VENDING 1D14	20 A					1196	360	20 A	RECEPTACLE STORAGE 1D15	12	
	13			1196	0					20 A	SPARE	14	
	15	APPLIANCE VENDING 1D14	20 A			3300	0			20 A	SPARE	16	
	17							3300	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
--	21	SPACE	--			0	0			--	SPACE	22	--
--	23	SPACE	--					0	0	--	SPACE	24	--
--	25	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	26	--
--	27	-	--			0	0			--	-	28	--
--	29	-	--					0	0	--	-	30	--
			Total Load:	6600 VA		6674 VA		6996 VA					
			Total Amps:	55 A		56 A		58 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	660 VA	100.00%	660 VA	**Total Conn. Load:**	20270 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	14244 VA
Appliance	17218 VA	65.00%	11192 VA	**Total Conn.:**	56 A
Equipment	2392 VA	100.00%	2392 VA	**Total Est. Demand:**	40 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BLC5T PLC1
MCLCG BHCG CFL1

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title: **AREA B EMERGENCY PANEL SCHEDULES**
Approved: Project Director

Project Title: VA Charlotte Health Care Center
Project Number: SFO# VA-101-10-RP-0081
Building Number:
Location: Charlotte, NC
Drawing Number: **E623**
Date: 07/21/2014 Checked: RJA Drawn: BCE
Dwg. of

U.S. Department of Veterans Affairs

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BLC5

Location: ELECTRICAL 5D14E
Supply From: T-BLC5
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	FRIDGE MED 4D25	20 A	180	430					20 A	R-TREATMENT / PROC 5E05	2
3	R-HEADWALL RECOVERY 5C31	20 A			360	828			20 A	SD-5 HEPA FILTER CYSTO OP...	4
5	L-ROOM 5C11, 5C13, 5C12, 5C14...	20 A					420	560	20 A	R-ROOM 4C30, 4C41	6
7	R-SP PROCEDURE 5C23	20 A	624	720					20 A	R-NURSE 5C56	8
9	R-BRONCH. PROCEDURE 5C06	20 A			680	720			20 A	R-NURSE STATION 5C34	10
11	R-EGD PROC. 5C14	20 A					680	820	20 A	R-WAITING AREA, FAMILY 5D07	12
13	AUTODOORS CYSTO	20 A	900	1080					20 A	R-NURSE STATION 5C41	14
15	AUTODOORS ENDO	20 A			900	1080			20 A	R-NURSE STATION 5C34	16
17	VAV XFMR CP 5CCOR05,...	20 A					1000	1800	20 A	ICE MAKER GI INFUSION 5D47	18
19	FRIDGE LAB WORK 4D12	20 A	1488	1500					20 A	COFFEE NOUR 5C42E	20
21	R-SPCH. ANALYSIS LAB 4E38	20 A			1300	1488			20 A	UC FRIDGE SPEC. RECV. 5D19	22
23	ICE MAKER NOUR 5C42E	20 A					1800	180	20 A	R-TREATMENT / PROC 5E27	24
25	FCU-2B02,3B02,4B02,5B02,5B03	20 A	250	180					20 A	R-TREATMENT / PROC 5C55	26
27					250	180			20 A	R-TREATMENT / PROC 5E05	28
29	R-MED 5D49	20 A					180	180	20 A	R-EGD PROC. 5C14	30
31	R-MED 4D25	20 A	180	180					20 A	R-CRASH CART 5E34	32
33	R-MED 4D44	20 A			180	180			20 A	R-EGD PROC. 5C12	34
35	R-CRASH CART 5E33	20 A					180	180	20 A	R-CRASH CART 4D32	36
37	R-CRASH CART 5E06	20 A	180	180					20 A	OMNICELL-MED PREP 5C38	38
39	R-CRASH CART 5E24	20 A			180	180			20 A	R-BRONCH. PROCEDURE 5C06	40
41	OMNICELL MED. 5E20	20 A					180	360	20 A	RECEPTACLE ELECTRICAL 4D21E	42
43	FRIDGE MED 4D44	20 A	180	360					20 A	R-TREATMENT / PROC 5E27	44
45	OMNICELL MED PREP 5C38	20 A			180	360			20 A	R-ELECTRICAL 3D21E	46
47	R-TREATMENT / PROC 4C41	20 A					360	360	20 A	R-SP PROCEDURE 5C23	48
49	R-SPCH. ANALYSIS LAB 4E38	20 A	360	360					20 A	R-PRE-OP 5C68	50
51	R-TREATMENT / PROC 4C30	20 A			360	360			20 A	R-PRE-OP, ISO 5C58	52
53	R-PRE-OP 5C67	20 A					360	360	20 A	R-PRE-OP 5C57	54
55	R-PRE-OP 5C63	20 A	360	360					20 A	R-PRE-OP 5C53	56
57	R-PRE-OP 5C64	20 A			360	360			20 A	R-PRE-OP 5C54	58
59	R-PRE-OP 5C52	20 A					360	360	20 A	R-MED PREP 5C55	60
61	R-NERVE BLOCK 5B16	20 A	360	360					20 A	R-EGD PROC. 5C13	62
63	R-PRE-OP 5C52	20 A			360	360			20 A	R-ELECTRICAL 5D14E	64
65	R-CONTROL 5C19	20 A					360	360	20 A	R-HEADWALL RECOVERY 5C31	66
67	R-HEADWALL RECOVERY 5C31	20 A	360	360					20 A	R-HEADWALL RECOVERY 5C31	68
69	R-HEADWALL RECOVERY 5C31	20 A			360	360			20 A	R-HEADWALL RECOVERY 5C31	70
71	R-HEADWALL RECOVERY 5C31	20 A					360	360	20 A	R-HEADWALL RECOVERY 5C31	72
73	R-HEADWALL RECOVERY 5C31	20 A	360	360					20 A	R-HEADWALL RECOVERY 5C31	74
75	R-HEADWALL RECOVERY 5C31	20 A			360	360			20 A	R-HEADWALLRECOVERY 5C31	76
77	VAV XFMR CP 5ECOR01	20 A					500	540	20 A	R-GI INFUSION 5D47	78
79	R-EGD PROC. 5C11	20 A	500	540					20 A	R-GI INFUSION 5D47	80
81	R-EGD PROC. 5C13	20 A			500	540			20 A	R-GI INFUSION 5D47	82
83	R-EGD PROC. 5C13	20 A					540	600	20 A	UC FRIDGE MED. 5E20	84
85	R-BRONCH. PROCEDURE 5C06	20 A	540	600					20 A	UC FRIDGE MED PREP 5C38	86
87	R-EGD PROC. 5C11	20 A			540	600			20 A	UC FRIDGE MED 5D49	88
89	R-ROOM 5C14, 5C12	20 A					720	900	20 A	R-NURSE 5C56	90
91	R-NURSE STATION 5C41	20 A	720	900					20 A	AUTODOORS RESTROOMS	92
93	R-NURSE STATION 5D48	20 A			720	900			20 A	FREEZER LAB STORAGE 5E43	94
95	FRIDGE NOUR 5C42E	20 A					960	500	20 A	PATIENT TRACKING FOR ROOM...	96
97	FRIDGE LAB STORAGE 5E43	20 A	960	828					20 A	SD-5 HEPA FILTER CYSTO OP...	98
99	FRIDGE MED PREP 5C55	20 A			960	828			20 A	SD-5 HEPA FILTER CYSTO OP...	100
101	SPARE	20 A					0	828	20 A	SD-5 HEPA FILTER CYSTO OP...	102
103	SPARE	20 A	0	0					20 A	SPARE	104
105	SPARE	20 A			0	0			20 A	SPARE	106
107	SPARE	20 A					0	0	20 A	SPARE	108
109	SPARE	20 A	0	0					20 A	SPARE	110
111	SPARE	20 A			0	0			20 A	SPARE	112
113	SPARE	20 A					0	0	20 A	SPARE	114
115	SPARE	20 A	0	0					20 A	SPARE	116
117	SPARE	20 A			0	0			20 A	SPARE	118
119	SPARE	20 A					0	0	20 A	SPARE	120
121	SPARE	20 A	0	0					20 A	SPARE	122
123	SPARE	20 A			0	0			20 A	SPARE	124
125	SPARE	20 A					0	0	20 A	SPARE	126
		Total Load:	17800 VA		18234 VA		18208 VA				
		Total Amps:	148 A		152 A		152 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	774 VA	125.00%	968 VA		
Receptacle	30400 VA	66.45%	20200 VA	**Total Conn. Load:**	54242 VA
Motor	3200 VA	102.34%	3275 VA	**Total Est. Demand:**	39405 VA
Appliance	14016 VA	65.00%	9110 VA	**Total Conn.:**	151 A
Equipment	5852 VA	100.00%	5852 VA	**Total Est. Demand:**	109 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BLQG

Location: ELEVATOR CONTROL 0D01
Supply From: T-BLQG
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: EQUIPMENT

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	ESP-5 ELEV SUMP PUMP-5	20 A	920	920					20 A	ESP-6 ELEV SUMP PUMP-6	2	
	3					920	920					4	
	5	ESP-DW-1 ELEV SUMP PUMP-1	20 A					920	920	20 A	ESP-DW-2 ELEV SUMP PUMP-2	6	
	7			920	920							8	
	9	ESP-1 ELEV SUMP PUMP-1	20 A			920	920			20 A	ESP-2 ELEV SUMP PUMP-2	10	
	11							920	920			12	
	13	ESP-3 ELEV SUMP PUMP-3	20 A	920	920					20 A	ESP-4 ELEV SUMP PUMP-4	14	
	15					920	920					16	
	17	ESP-DW-4 ELEV SUMP PUMP-4	20 A					920	920	20 A	ESP-DW-3 ELEV SUMP PUMP-DW-3	18	
	19			920	920							20	
	21	ESP-8 ELEV SUMP PUMP-8	20 A			920	920			20 A	ESP-7 ELEV SUMP PUMP-7	22	
	23							920	920			24	
	25	SSP-1 STORM SUMP PUMP-1	15 A	564	564					15 A	SSP-2 STORM SUMP PUMP-2	26	
	27					564	564					28	
	29	SSPCP STORM SUMP PUMP...	20 A					480	0	--	SPACE	30	--
--	31	SPACE	--	0	0					--	SPACE	32	--
--	33	SPACE	--			0	0			--	SPACE	34	--
--	35	SPACE	--					0	0	--	SPACE	36	--
--	37	SPACE	--	0	0					--	SPACE	38	--
--	39	SPACE	--			0	0			--	SPACE	40	--
--	41	SPACE	--					0	0	--	SPACE	42	--
			Total Load:	8487 VA		8487 VA		7840 VA					
			Total Amps:	72 A		72 A		65 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	24814 VA
Motor	24334 VA	101.89%	24794 VA	**Total Est. Demand:**	25274 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	69 A
Equipment	480 VA	100.00%	480 VA	**Total Est. Demand:**	70 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

BHQG

Location: ELEVATOR CONTROL 0D01
Supply From: ATS-EQ3
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: EQUIPMENT

AIC Rating: 18,000
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			12383	12383							2	
[1]	3	ELEV-1 ELEVATOR MACH 0D01	60 A			12383	12383			60 A	ELEV-3 ELEVATOR MACH 0D01	4	[1]
	5							12383	12383			6	
	7	DW-1 DUMBWAITER-1 ELEVATOR MACH 0D01	40 A	8498	8498					40 A	DW-2 DUMBWAITER-2 ELEVATOR MACH 0D01	8	[1]
[1]	9					8498	8498					10	
	11							8498	8498			12	
	13	DWBP-1 DOMESTIC WATER BOOSTER PUMP-1	25 A	2921	10411					50 A	CRAC-0A02 MCR 0B39	14	
	15					2921	10411					16	
	17							2921	10411			18	
	19	CRAC-0A01 MCR 0B39	50 A	10411	0					--	SPACE	20	--
	21					10411	0			--	SPACE	22	--
	23							10411	0	--	SPACE	24	--
	25	GEF-1B01	15 A	903	0					--	SPACE	26	--
	27					903	0			--	SPACE	28	--
	29							903	0	--	SPACE	30	--
	31	DW-3 DUMBWAITER-3 ELEVATOR MACH 0D01	40 A	8498	8498					40 A	DW-4 DUMBWAITER-4 ELEVATOR MACH 0D01	32	
[1]	33					8498	8498					34	[1]
	35							8498	8498			36	
	37	DWBP-3 DOMESTIC WATER BOOSTER PUMP-3	25 A	2921	2921					25 A	DWBP-2 DOMESTIC WATER BOOSTER PUMP-2	38	
	39					2921	2921					40	
	41							2921	2921			42	
	43	T-BLQG	35 A	8487	0					--	SPACE	44	--
	45					8487	0			--	SPACE	46	--
	47							7840	0	--	SPACE	48	--
--	49	SPACE	--	0	0					--	SPACE	50	--
--	51	SPACE	--			0	0			--	SPACE	52	--
--	53	SPACE	--					0	0	--	SPACE	54	--
			Total Load:	97735 VA		97735 VA		97088 VA					
			Total Amps:	353 A		353 A		350 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	292559 VA
Motor	53335 VA	104.11%	55526 VA	**Total Est. Demand:**	257731 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	352 A
Equipment	62944 VA	100.00%	62944 VA	**Total Est. Demand:**	310 A
Heating	0 VA	0.00%	0 VA		
Elevator	176280 VA	79.00%	139261 VA		

Notes:
1. PROVIDE SHUNT TRIP CIRCUIT BREAKER.

BLQP

Location: ELECTRICAL 6D03E
Supply From: T-BLQP
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: EQUIPMENT

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
	1	TCP-6B01&6B02 6D01	20 A	500	500					20 A	TCP-6B03&6B04 6D01	2
	3	TCP-6B05 & DX-6B01 6D01	20 A			500	0			20 A	SPARE	4
	5	R-ELECTRICAL 6D03E	20 A					540	0	20 A	SPARE	6
	7	SPARE	20 A	0	471					20 A	R-L-ELEV 1-2	8
	9	FCU-6B01,6B02	20 A			100	471			20 A	R-L-ELEV 3-4	10
	11							100	471	20 A	R-L-ELEV 7-8	12
	13	RECEPTACLE ELEV CTRL RM...	20 A	180	0					20 A	SPARE	14
	15	SPARE	20 A			0	0			20 A	SPARE	16
	17	SPARE	20 A					0	0	20 A	SPARE	18
	19	SPARE	20 A	0	1369					20 A	CU-LAB CONDENSER FOR GROUND LEVEL LAB WALK-IN REFRIGERATED SPACE	20
	21	SPARE	20 A			0	1369					22
--	23	SPACE	--					0	1369			24
			Total Load:	3020 VA		2440 VA		2480 VA				
			Total Amps:	25 A		20 A		21 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	333 VA	125.00%	416 VA		
Receptacle	1800 VA	100.00%	1800 VA	**Total Conn. Load:**	7940 VA
Motor	4307 VA	123.84%	5334 VA	**Total Est. Demand:**	9050 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	22 A
Equipment	1500 VA	100.00%	1500 VA	**Total Est. Demand:**	25 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

C-ISO-5C18

Location:
Supply From: AHC5
Mounting: Surface
Enclosure: Type 1
Branch: CRITICAL
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MAIN CIRCUIT BREAKER SHALL SELECTIVELY COORDINATE WITH BRANCH CIRCUIT BREAKERS.

Pri. AIC Rating: 14,000
Primary Volts: 480 V
Phases: 1
Primary Wires: 2#10 (L-L)
Primary MCB: 30 A

Iso-Transformer: 10kVA
Secondary Volts: 120 V
Phases: 1
Wires: 2 (L-L)
Secondary MCB: 0 A

	CKT	Circuit Description	Trip	L1		L2		Trip	Circuit Description	CKT	
	1	R-CYSTO OP 5C18	20 A	360	360			20 A	R-CYSTO OP 5C18	2	
	3	R-CYSTO OP 5C18	20 A			360	180	20 A	R-CYSTO OP 5C18	4	
	5	R-CYSTO OP 5C18	20 A	360	300			20 A	L-CYSTO OP 5C18	6	
	7	R-CYSTO OP 5C18	20 A			360	183	20 A	R-CYSTO OP 5C18	8	
	9	SPARE	20 A	0	480			20 A	R-CONSULT 4C15	10	
	11	SPARE	20 A			0	0	20 A	SPARE	12	
	13	SPARE	20 A	0	0			20 A	SPARE	14	
--	15	SPACE	--			0	0	--	SPACE	16	--
			Total Load:	1860 VA		1083 VA					
			Total Amps:	16 A		9 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	300 VA	125.00%	375 VA		
Receptacle	2160 VA	100.00%	2160 VA	**Total Conn. Load:**	2943 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	3018 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	12 A
Equipment	483 VA	100.00%	483 VA	**Total Est. Demand:**	13 A
Heating	0 VA	0.00%	0 VA		

Notes:

BHQP

Location: ELECTRICAL 6D03E
Supply From: ATS-EQ2
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: EQUIPMENT

AIC Rating: 25,000
Mains Type: MCB
Bus Rating: 600 A
MCB Rating: 600 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			3020	9048							2	
	3	T-BLQP	35 A			2440	9158			100 A	CHQP	4	
	5							2480	9038			6	
--	7	SPACE	--	0	2018							8	
--	9	SPACE	--			0	2018			15 A	EF-6B09	10	
	11							63400	2018			12	
	13	AHQP	400 A	63323	930							14	
	15					63593	930			15 A	CU-6B04 PRE-OP 5C54	16	
	17							930	930			18	
	19	CU-6B05 PRE-OP 5C54	15 A	930	797							20	
	21					930	797			15 A	EF-6B10	22	
--	23	SPACE - 3 POLE	--					0	797			24	
--	25	-	--	0	2921							26	
--	27	-	--			0	2921			25 A	EF-6B13A	28	
	29							0	2921			30	
[2]	31	EF-6B13B	25 A	0	1886							32	
	33					0	1886			20 A	CU-6B01	34	
--	35	SPACE	--					0	1886			36	
--	37	SPACE	--	0	4037							38	
--	39	SPACE	--			0	4037			35 A	CU-6B03	40	
--	41	SPACE	--					0	4037			42	
--	43	SPACE	--	0	3107							44	
--	45	SPACE	--			0	3107			25 A	CU-6B02	46	
	47							15146	3107			48	
[1]	49	ELEV-7	60 A	15146	0					--	SPACE - 3 POLE	50	--
	51					15146	0			--	-	52	--
--	53	SPACE	--					0	0	--	-	54	--
--	55	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	56	--
--	57	-	--			0	0			--	-	58	--
--	59	-	--					0	0	--	-	60	--
--	61	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	62	--
--	63	-	--			0	0			--	-	64	--
--	65	-	--					0	0	--	-	66	--
--	67	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	68	--
--	69	-	--			0	0			--	-	70	--
--	71	-	--					0	0	--	-	72	--
--	73	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	74	--
--	75	-	--			0	0			--	-	76	--
--	77	-	--					0	0	--	-	78	--
--	79	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	80	--
--	81	-	--			0	0			--	-	82	--
--	83	-	--					0	0	--	-	84	--
			Total Load:	107163 VA		106963 VA		106690 VA					
			Total Amps:	387 A		386 A		385 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	444 VA	125.00%	555 VA		
Receptacle	5220 VA	100.00%	5220 VA	**Total Conn. Load:**	320815 VA
Motor	216315 VA	104.05%	225079 VA	**Total Est. Demand:**	325150 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	386 A
Equipment	4800 VA	100.00%	4800 VA	**Total Est. Demand:**	391 A
Heating	3240 VA	100.00%	3240 VA		
Elevator	90796 VA	95.00%	86256 VA		

Notes:
1. PROVIDE SHUNT TRIP CIRCUIT BREAKER.
2. REDUNDANT MOTOR WILL NOT OPERATE AT THE SAME TIME AS ITS COUNTERPART.

BLC5 BHQG C-ISO-5C18
BLQG BLQP BHQP

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title: **AREA B EMERGENCY PANEL SCHEDULES**
Approved: Project Director

Project Title: VA Charlotte Health Care Center
Project Number: SFO# VA-101-10-RP-0081
Building Number:
Location: Charlotte, NC
Date: 07/21/2014 Checked: RJA Drawn: BCE
Drawing Number: **E624**
Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

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CLGA

Location: C-SWGR 0D28E
Supply From: T-CLGA
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	R-GOLF CART CHARGING	20 A	1920	1920					20 A	R-GOLF CART CHARGING	2	
	3	R-GOLF CART CHARGING	20 A			1920	2333					4	
	5	R-GOLF CART CHARGING	20 A					1920	2333	40 A	ELECTRIC VEHICLE CHARGING-1	6	
	7			2333	2333							8	
	9	ELECTRIC VEHICLE CHARGING-2	40 A			2333	2333					10	
	11							2333	2333	40 A	ELECTRIC VEHICLE CHARGING-3	12	
	13			2333	2333							14	
	15	ELECTRIC VEHICLE CHARGING-4	40 A			2333	0			20 A	SPARE	16	
	17							2333	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
	23	SPARE	20 A					0	0	20 A	SPARE	24	
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	13173 VA		11253 VA		11253 VA					
			Total Amps:	110 A		94 A		94 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	7680 VA	100.00%	7680 VA	**Total Conn. Load:**	35680 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	35680 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	99 A
Equipment	28000 VA	100.00%	28000 VA	**Total Est. Demand:**	99 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

C-SWGR

Location: C-SWGR 0D28E
Supply From: C-T-UTIL
Mounting: Surface
Enclosure: Type 1
Notes: PROVIDE 100% RATED MAIN CIRCUIT BREAKER WITH AN INSTANTANEOUS SETTING THAT OVERRIDES 42,000A.

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 50,000
Mains Type: MCB
Mains Rating: 3000 A
MCB Rating: 3000 A

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	ATS-EQ2	3	600 A	600 A	320815 VA	
2	ATS-CR1	3	600 A	600 A	427251 VA	
3	ATS-LS2	3	250 A	250 A	42989 VA	
4	CHGA	3	600 A	600 A	362465 VA	
5	CH3A	3	600 A	600 A	432920 VA	
6	BH3A	3	1000 A	1000 A	642177 VA	
7	ATS-EQ3	3	400 A	400 A	292559 VA	
8	ATS-CR2	3	400 A	400 A	180919 VA	
9	SPACE - 3 POLE	--	--	--	0 VA	--
10	SPACE - 3 POLE	--	--	--	0 VA	--
11	SPACE - 3 POLE	--	--	--	0 VA	--
12	SPACE - 3 POLE	--	--	--	0 VA	--
13	SPACE - 3 POLE	--	--	--	0 VA	--
14	SPACE - 3 POLE	--	--	--	0 VA	--
15		--	--	--	0 VA	--
				Total Conn. Load:	2830457 VA	
				Total Amps:	3405 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Elevator	388814 VA	72.00%	279946 VA		
Equipment	665607 VA	100.00%	665607 VA	**Total Conn. Load:**	2830457 VA
Heating	3368 VA	100.00%	3368 VA	**Total Est. Demand:**	2348891 VA
Lighting	172668 VA	125.00%	215835 VA	**Total Conn.:**	3405 A
Motor	701798 VA	101.25%	710562 VA	**Total Est. Demand:**	2825 A
Other	1006 VA	100.00%	1006 VA		
Power	1000 VA	100.00%	1000 VA		
Receptacle	799092 VA	50.63%	404546 VA		
Spare	11154 VA	100.00%	11154 VA		
Appliance	85950 VA	65.00%	55868 VA		

Notes:

CHGA

Location: C-SWGR 0D28E
Supply From: C-SWGR
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 50,000
Mains Type: MLO
Bus Rating: 600 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
--	1	SPACE - 3 POLE	--	0	13173							2	
--	3	-	--			0	11253			125 A	T-CLGA	4	
--	5	-	--					0	11253			6	
	7			12383	13166							8	
[1]	9	ELEV-2 ELEVATOR MACH 0D01	60 A			12383	13780			125 A	T-CL1B	10	
	11							12383	14094			12	
	13			21012	27886							14	
	15	T-CL1A	125 A			22366	25020			175 A	T-CL2A	16	
	17							21480	27080			18	
	19			20946	12383							20	
	21	T-CL2B	125 A			21527	12383			60 A	ELEV-4 ELEVATOR MACH 0D01	22	[1]
	23							21006	12383			24	
	25			9890	3718					30 A	FUTURE TRASH COMPACTOR 3...	26	
	27	TAP-CH1	100 A			10739	3718			0 A	(30A 3 POLE)	28	
	29							3508	3718	0 A	(30A 3 POLE)	30	
--	31	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	32	--
--	33	-	--			0	0			--	-	34	--
--	35	-	--					0	0	--	-	36	--
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
			Total Load:	134557 VA		133170 VA		126906 VA					
			Total Amps:	489 A		484 A		458 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	25738 VA	125.00%	32173 VA		
Receptacle	171484 VA	52.92%	90742 VA	**Total Conn. Load:**	396234 VA
Motor	1267 VA	113.16%	1434 VA	**Total Est. Demand:**	311512 VA
Appliance	19620 VA	65.00%	12753 VA	**Total Conn.:**	477 A
Equipment	92543 VA	100.00%	92543 VA	**Total Est. Demand:**	375 A
Heating	128 VA	100.00%	128 VA		
Elevator	74300 VA	95.00%	70585 VA		

Notes:
1. PROVIDE SHUNT TRIP CIRCUIT BREAKER.

CLGA C-SWGR
CHGA

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title: **AREA C NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E625**

Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

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CL1A

Location: ELECTRICAL 1E25E
Supply From: T-CL1A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	6	400					20 A	KIOSK & TV WAITING AREA 1D67	2	
	3	R-STAFF LOUNGE 1D92	20 A			286	420			20 A	R-TREATMENT / PROC 1D79	4	
	5	R-HBA 1D33	20 A					360	460	20 A	LACT 1D74	6	
	7	R-STAFF LOUNGE 1D62	20 A	466	600					20 A	R-HBA 1D33	8	
	9	FRIDGE LACT 1D74	20 A			540	680			20 A	R-TREATMENT / PROC 1D79	10	
	11	KIOSK LOBBY 1D07	20 A					600	780	20 A	R-TELERETINAL 1D12	12	
	13	R-TELERETINAL 1D12	20 A	860	1040					20 A	R-CLERKS 1D66	14	
	15	R-PSYCH 1D76	20 A			960	1040			20 A	R-TELERETINAL 1D10	16	
	17	R-ATMS 1D09	20 A					1000	1080	20 A	R-CLEAN UTILITY 1D91	18	
	19	MICROWAVE LACT 1D74	20 A	1200	1440					20 A	TABLE 1D12	20	
	21	R-CLERKS 1D66	20 A			1080	1200			20 A	MICROWAVE STAFF LOUNGE...	22	
	23	COFFEE LACT 1D74	20 A					1500	1500	20 A	COFFEE STAFF LOUNGE 1D62	24	
	25	TABLE EXAM 1D73	20 A	1440	720					20 A	R-ROOM 1D75, 1D77	26	
	27	ROOM 1D93, 1D72	20 A			1320	1360			20 A	R-ROOM 1D73, 1D77	28	
	29	R-ROOM 1D83, 1D82	20 A					1040	1040	20 A	R-ROOM 1D73, 1D75	30	
	31	R-ROOM 1D84, 1D82	20 A	720	180					20 A	DRINKING FOUNTAIN WAITING...	32	
	33	R-ROOM 1D84, 1D83	20 A			1360	180			20 A	R-INFO. DESK 1D03	34	
	35	R-LACT 1D74	20 A					180	360	20 A	R-MED 1D90	36	
	37	R-HBA 1D37	20 A	360	540					20 A	FRIDGE STAFF LOUNGE 1D62	38	
	39	R-HEALTH E-VET 1D04	20 A			360	540			20 A	FRIDGE STAFF LOUNGE 1D92	40	
	41	R-ROOM 1DCOR02, 1D06, 1D01	20 A					540	600	20 A	R-HBA 1D37	42	
	43	R-HBA 1D34	20 A	600	720					20 A	R-HBA 1D34	44	
	45	R-HBA 1D36	20 A			600	720			20 A	R-ROOM 1DCOR04, 1D11	46	
	47	R-WAITING AREA 1D67	20 A					720	900	20 A	R-ROOM 1D63R, 1D66, 1D43,...	48	
	49	KIOSK LOBBY 1D07	20 A	900	960					20 A	R-ROOM 1D66, 1D65	50	
	51	R-ROOM 1D05, 1DCOR01, 1D31	20 A			900	960			20 A	R-TELERETINAL 1D10	52	
	53	SHREDDER COPY RM 1D72	20 A					960	1080	20 A	R-ROOM 1DCOR11, 1DCOR09,...	54	
	55	R-INFO. DESK 1D03	20 A	1080	1200					20 A	R-TEAMLET 1D85B	56	
	57	R-RECEPTION 1D71	20 A			1080	1200			20 A	R-TEAMLET 1D85B	58	
	59	R-TEAMLET 1D85C	20 A					1200	1200	20 A	R-TEAMLET 1D85A	60	
	61	MICROWAVE STAFF LOUNGE...	20 A	1200	1440					20 A	TABLE EXAM 1D83	62	
	63	R-TEAMLET 1D85A	20 A			1200	1440			20 A	TABLE EXAM 1D84	64	
	65	TABLE TELERETINAL 1D10	20 A					1440	1440	20 A	TABLE EXAM 1D82	66	
	67	TABLE EXAM 1D75	20 A	1440	1500					20 A	COFFEE STAFF LOUNGE 1D92	68	
	69	TABLE EXAM 1D77	20 A			1440	1500			20 A	COPIER COPY RM 1D72	70	
	71	XEROX COPY RM 1D65	20 A					1500	0	20 A	SPARE	72	
	73	SPARE	20 A	0	0					20 A	SPARE	74	
	75	SPARE	20 A			0	0			20 A	SPARE	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
	103	SPARE	20 A	0	0					20 A	SPARE	104	
	105	SPARE	20 A			0	0			20 A	SPARE	106	
	107	SPARE	20 A					0	0	20 A	SPARE	108	
	109	SPARE	20 A	0	0					20 A	SPARE	110	
--	111	SPACE	--			0	0			--	SPACE	112	--
--	113	SPACE	--					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE	--	0	0					--	SPACE	122	--
--	123	SPACE	--			0	0			--	SPACE	124	--
--	125	SPACE	--					0	0	--	SPACE	126	--
			Total Load:	21012 VA		22366 VA		21480 VA					
			Total Amps:	175 A		187 A		180 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	39832 VA	62.55%	24916 VA	**Total Conn. Load:**	64858 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	46477 VA
Appliance	9900 VA	65.00%	6435 VA	**Total Conn.:**	180 A
Equipment	15126 VA	100.00%	15126 VA	**Total Est. Demand:**	129 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CH1

Location: ELECTRICAL 1E25E
Supply From: TAP-CH1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 70 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SPARE	20 A	0	3087					20 A	L-CORRIDOR 1DCOR01	2	
	3	SPARE	20 A			0	3489			20 A	L-STORAGE 1D15	4	
	5	SPARE	20 A					0	3508	20 A	L-GROUP 1E06	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	3087 VA		3489 VA		3508 VA					
			Total Amps:	11 A		13 A		13 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	10860 VA	125.00%	13575 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	10860 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	13575 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	13 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	16 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CL1B

Location: ELECTRICAL 1E25E
Supply From: T-CL1B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	6	180					20 A	DRINKING FOUNTAIN WAITING...	2	
	3	R-LIFTS 1E32-36, 1E48	20 A			60	180			20 A	MICROWAVE NOURISHMENT...	4	
	5	CUH-1 CABINET UNIT HEATERS...	20 A					128	240	20 A	SCALE W/C STO 1E56	6	
	7	R-BIOMED ENGINEERING 1E20	20 A	360	540					20 A	R-1E49, 1E35, 1E36	8	
	9	R-ROOM 1E43, 1E42	20 A			420	600			20 A	R-OFFICE 1E22	10	
	11	FRIDGE-STAFF LOUNGE 1E11	20 A					540	646	20 A	R-STAFF LOUNGE 1E11	12	
	13	R-GROUP 1E06	20 A	860	1040					20 A	R-EXAM 1E09	14	
	15	R-TEAMLET 1E26	20 A			860	1040			20 A	R-TEAMLET 1E28	16	
	17	PLUGMOLD-NORTH LAB 1E27	20 A					900	1080	20 A	R-RECEPTION 1E04	18	
	19	R-LAB 1E27	20 A	1140	2240					20 A	R-OFFICE 1E14	20	
	21	R-MED 1E21	20 A			1140	1260			20 A	R-RECEPTION 1D08	22	
	23	FRIDGE NOURISHMENT 1E51	20 A					1200	1200	20 A	MICROWAVE-STAFF LOUNGE...	24	
	25	R-OFFICE 1E18	20 A	2240	360					20 A	R-NOURISHMENT 1E51	26	
	27	R-RECEPTION 1D08	20 A			1260	1440			20 A	R-EXAM 1E09	28	
	29	R-ROOM 1ECOR01, 1ECOR07,...	20 A					2340	660	20 A	R-WAITING AREA 1E01	30	
	31	R-CLEAN UTILITY 1E53	20 A	540	720					20 A	R-ROOM 1E23, 1ECOR04, 1E19	32	
	33	R-OFFICE 1E22	20 A			360	540			20 A	R-ELECTRICAL 1E25E	34	
	35	R-TEAMLET 1E26	20 A					540	720	20 A	R-TELCOMM 1E55T	36	
	37	R-CLEAN UTILITY 1E53	20 A	720	720					20 A	R-1E37, 1E38, 1E39, 1E40	38	
	39	R-TEAMLET 1E28	20 A			720	720			20 A	R-GROUP 1E06	40	
	41	R-ROOM 1E23, 1E41, 1ECOR04,...	20 A					720	720	20 A	R-1E48, 1E32, 1E33, 1E34	42	
	43	SPARE	20 A	0	1500					20 A	COFFE MAKER-STAFF LOUNGE...	44	
	45	R-1E47, 1E46, 1E45, 1E44	20 A			720	960			20 A	SHREDDER RECEPTION 1E04	46	
	47	W/C STO 1D02	20 A					960	1500	20 A	COPIER COPY RM 1E05	48	
	49	SPARE	20 A	0	0					20 A	SPARE	50	
	51	COFFEE MAKER NOURISHMENT...	20 A			1500	0			20 A	SPARE	52	
	53	SPARE	20 A					0	0	20 A	SPARE	54	
	55	SPARE	20 A	0	0					20 A	SPARE	56	
	57	SPARE	20 A			0	0			20 A	SPARE	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
	67	SPARE	20 A	0	0					20 A	SPARE	68	
	69	SPARE	20 A			0	0			20 A	SPARE	70	
	71	SPARE	20 A					0	0	20 A	SPARE	72	
	73	SPARE	20 A	0	0					20 A	SPARE	74	
	75	SPARE	20 A			0	0			20 A	SPARE	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					--	SPACE	80	--
	81	SPARE	20 A			0	0			--	SPACE	82	--
--	83	SPACE	--					0	0	--	SPACE	84	--
			Total Load:	13166 VA		13780 VA		14094 VA					
			Total Amps:	110 A		116 A		118 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	32126 VA	65.56%	21063 VA	**Total Conn. Load:**	41040 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	27709 VA
Appliance	6480 VA	65.00%	4212 VA	**Total Conn.:**	114 A
Equipment	2306 VA	100.00%	2306 VA	**Total Est. Demand:**	77 A
Heating	128 VA	100.00%	128 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CL1A CH1 CL1B

ISSUED FOR CONSTRUCTION

Revisions:	Date
1 ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-12-2014

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Drawing Title: **AREA C NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Project Number: SFO# VA-101-10-RP-0081

Building Number

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Drawing Number: **E626**

Dwg. of

U.S. Department of Veterans Affairs

8/3/2014 3:08:22 PM

VA FORM 08-6231

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CL2A

Location: ELECTRICAL 2E41E
Supply From: T-CL2A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	6	360					20 A	R-SEC / RECEP 2D03	2	
	3	SCALE W/C 2D64	20 A			240	400			20 A	KIOSK & TV WAITING AREA 2D51	4	
	5	R-PATIENT ADVOCATE 2D05	20 A					360	660	20 A	R-GROUP 2D71	6	
	7	R-OFFICE / EXAM 2D66	20 A	1440	1720					20 A	R-ROOM 2E16, 2E14, 2E12, 2D74	8	
	9	R-CONSULT 2D45	20 A			960	1900			20 A	R-ROOM 2E18, 2E16, 2E14, 2E12	10	
	11	R-GROUP 2D71	20 A					720	1260	20 A	R-ROOM 2E18, 2E16, 2E14, 2E12...	12	
	13	XEROX COPY RM 2D53	20 A	1500	900					20 A	R-DICTATION 2D48	14	
	15	R-WAITING AREA 2D01	20 A			180	1080			20 A	R-ROOM 2D46, 2D49, 2D47	16	
	17	PLUGMOLD GROUP 2D71	20 A					1620	1220	20 A	R-ROOM 2D70, 2D49, 2D47	18	
	19	R-ROOM 2D56, 2D60, 2D62, 2D58	20 A	1720	1860					20 A	R-ROOM 2D46, 2D70, 2D47	20	
	21	R-ROOM 2D58, 2D56, 2D60, 2D62	20 A			900	1720			20 A	R-ROOM 2D57, 2D59, 2D61, 2D65	22	
	23	R-ROOM 2D58, 2D60, 2D62	20 A					1540	1040	20 A	R-ROOM 2D57, 2D59, 2D61	24	
	25	DRINKING FOUNTAIN WAITING...	20 A	180	1400					20 A	R-ROOM 2D57, 2D59, 2D61, 2D65	26	
	27	R-PATIENT ADVOCATE 2D04	20 A			600	600			20 A	AUTODOOR5	28	
	29	TABLE EXAM 2E14	20 A					180	720	20 A	R-GROUP 2D73	30	
	31	R-GROUP 2D72	20 A	720	600					20 A	R-PATIENT ADVOCATE 2D05	32	
	33	SHREDDER COPY RM 2D53	20 A			960	960			20 A	ROOM 2E09, 2D63, 2ECOR03,...	34	
	35	R-PATIENT ADVOCATE 2D04	20 A					720	1080	20 A	R-ROOM 2ECOR01, 2D01	36	
	37	R-RECEPTION 2D52	20 A	1080	960					20 A	SHREDDER RECEPTION 2D52	38	
	39	POKE THRU TEAMLET 2D75C	20 A			1200	1200			20 A	POKE THRU TEAMLET 2D75B	40	
	41	R-WAITING AREA 2D02	20 A					1080	1200	20 A	POKE THRU TEAMLET 2D75A	42	
	43	POKE THRU TEAMLET 2D75A	20 A	1200	1200					20 A	R-CLERKS 1D66	44	
	45	POKE THRU TEAMLET 2D55C	20 A			1200	1200			20 A	POKE THRU TEAMLET 2D55B	46	
	47	POKE THRU TEAMLET 2D75B	20 A					1200	1200	20 A	POKE THRU TEAMLET 2D55A	48	
	49	POKE THRU TEAMLET 2D55A	20 A	1200	1200					20 A	POKE THRU TEAMLET 2D75A	50	
	51	R-ROOM 2ECOR05, 2DCOR05,...	20 A			1260	1260			20 A	R-ROOM 2D52, 2D53	52	
	53	POKE THRU TEAMLET 2D55A	20 A					1200	1440	20 A	TABLE EXAM/OFFICE 2D70	54	
	55	TABLE EXAM 2E18	20 A	1440	1440					20 A	TABLE EXAM 2D74	56	
	57	TABLE EXAM 2E12	20 A			1440	1440			20 A	TABLE EXAM 2D61	58	
	59	TABLE GYN EXAM 2D62	20 A					1440	1440	20 A	TABLE EXAM 2E16	60	
	61	TABLE EXAM 2D60	20 A	1440	1440					20 A	TABLE EXAM 2D57	62	
	63	TABLE EXAM 2D58	20 A			1440	1440			20 A	TABLE EXAM 2D49	64	
	65	TABLE EXAM 2D65	20 A					1440	1440	20 A	TABLE EXAM 2D59	66	
	67	TABLE EXAM 2D46	20 A	1440	1440					20 A	R-OFFICE / EXAM 2D68	68	
	69	R-OFFICE / EXAM 2E07	20 A			1440	0			20 A	SPARE	70	
	71	TABLE EXAM 2D56	20 A					1440	1440	20 A	TABLE BARIATRIC EXAM 2D47	72	
	73	SPARE	20 A	0	0					20 A	SPARE	74	
	75	SPARE	20 A			0	0			20 A	SPARE	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
	103	SPARE	20 A	0	0					20 A	SPARE	104	
	105	SPARE	20 A			0	0			--	SPACE	106	--
	107	SPACE	20 A					0	0	--	SPACE	108	--
	109	SPARE	20 A	0	0					--	SPACE	110	--
	111	SPARE	20 A			0	0			--	SPACE	112	--
	113	SPARE	20 A					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE	--	0	0					--	SPACE	122	--
--	123	SPACE	--			0	0			--	SPACE	124	--
--	125	SPACE	--					0	0	--	SPACE	126	--
			Total Load:	27886 VA		25020 VA		27080 VA					
			Total Amps:	235 A		209 A		228 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	55300 VA	59.04%	32650 VA	**Total Conn. Load:**	79986 VA
Motor	600 VA	112.50%	675 VA	**Total Est. Demand:**	57411 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	222 A
Equipment	24086 VA	100.00%	24086 VA	**Total Est. Demand:**	159 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CH2

Location: ELECTRICAL 2E41E
Supply From: TAP-CH1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 70 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-CORRIDOR 2DCOR01	20 A	3443	3551					20 A	L-PATIENT ADVOCATE 2D06	2	
	3	L-EXAM 2D57	20 A			3677	3573			20 A	L-STAFF LOUNGE 2E43	4	
	5	SPARE	20 A					0	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	6994 VA		7250 VA		0 VA					
			Total Amps:	29 A		30 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	14878 VA	125.00%	18598 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	14878 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	18598 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	18 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	22 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CL2B

Location: ELECTRICAL 2E41E
Supply From: T-CL2B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSOR ROOM 2E43,...	20 A	6	600					20 A	ROOM 2E33, 2ECOR05, 2ECOR0...	2	
	3	KIOSK & TV WAITING AREA 2E01	20 A			400	667			20 A	EF-2C01	4	
	5	R-STAFF LOUNGE 2E43	20 A					466	720	20 A	R-HOMELESS SHOWER 2E11	6	
	7	R-EXAM 2C161	20 A	820	960					20 A	SHREDDER COPY RM 2E05	8	
	9	R-TELE-HEALTH 2E53	20 A			820	1000			20 A	VAV XFMR CP 2DCOR26,...	10	
	11	EXAM 2E47	20 A					860	960	20 A	SHREDDER RECEPTION 2E04	12	
	13	R-RECEPTION 2E04	20 A	1080	1080					20 A	R-ROOM 2C166, 2C160, 2C154	14	
	15	R-TECH AREA 2E52	20 A			1400	1500			20 A	COFFEE STAFF LOUNGE 2E43	16	
	17	R-ROOM 2E36, 2E39, 2ECOR07,...	20 A					1260	1500	20 A	COPIER COPY RM 2E05	18	
	19	MICROWAVE STAFF LOUNGE...	20 A	1200	1540					20 A	R-ROOM 2E40, 2E37, 2E35, 2E23	20	
	21	R-ROOM 2E19, 2E17, 2E15, 2E13	20 A			1720	1400			20 A	R-ROOM 2E40, 2E37, 2E35, 2E23	22	
	23	R-ROOM 2E19, 2E17, 2E15, 2E13	20 A					1400	1220	20 A	R-ROOM 2E37, 2E40, 2E35	24	
	25	R-ROOM 2E19, 2E15, 2E17	20 A	1040	1040					20 A	R-ROOM 2E25, 2E27	26	
	27	R-ROOM 2E29, 2E32	20 A			1040	1040			20 A	R-ROOM 2E26, 2E27	28	
	29	R-ROOM 2E31, 2E32	20 A					1040	1040	20 A	R-ROOM 2E25, 2E26	30	
	31	R-ROOM 2E31, 2E29	20 A	1040	180					20 A	POKE THRU TEAMLET 2E22B	32	
	33	POKE THRU TEAMLET 2E22C	20 A			180	180			20 A	POKE THRU TEAMLET 2E22A	34	
	35	POKE THRU TEAMLET 2E22C	20 A					180	180	20 A	POKE THRU TEAMLET 2E22B	36	
	37	POKE THRU TEAMLET 2E22A	20 A	180	540					20 A	FRIDGE STAFF LOUNGE 2E43	38	
	39	R-ELECTRICAL 2E41E	20 A			540	720			20 A	R-ROOM 2E49, 2E51	40	
	41	R-ROOM 2ECOR01, 2E01	20 A					540	720	20 A	R-TELCOMM 2E28T	42	
	43	R-ROOM 2E47, 2E45	20 A	720	860					20 A	R-EXAM 2C166	44	
	45	R-EXAM 2E45	20 A			860	860			20 A	R-EXAM 2C154	46	
	47	R-EXAM 2E51	20 A					860	860	20 A	R-EXAM 2C160	48	
	49	EXAM 2E49	20 A	860	1440					20 A	TABLE EXAM 2E35	50	
	51	TABLE EXAM 2E37	20 A			1440	1440			20 A	TABLE EXAM 2E31	52	
	53	TABLE EXAM 2E40	20 A					1440	1440	20 A	TABLE EXAM 2E32	54	
	55	TABLE EXAM 2E29	20 A	1440	1440					20 A	TABLE EXAM 2E25	56	
	57	TABLE EXAM 2E26	20 A			1440	1440			20 A	TABLE EXAM 2E19	58	
	59	TABLE EXAM 2E27	20 A					1440	1440	20 A	TABLE EXAM 2E23	60	
	61	TABLE EXAM 2E17	20 A	1440	1440					20 A	R-COPY RM 2E05	62	
	63	TABLE EXAM 2E13	20 A			1440	0			20 A	SPARE	64	
	65	TABLE EXAM 2E15	20 A					1440	0	20 A	SPARE	66	
	67	SPARE	20 A	0	0					20 A	SPARE	68	
	69	SPARE	20 A			0	0			20 A	SPARE	70	
	71	SPARE	20 A					0	0	20 A	SPARE	72	
	73	SPARE	20 A	0	0					20 A	SPARE	74	
	75	SPARE	20 A			0	0			20 A	SPARE	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					20 A	SPARE	80	
	81	SPARE	20 A			0	0			20 A	SPARE	82	
	83	SPARE	20 A					0	0	20 A	SPARE	84	
	85	SPARE	20 A	0	0					20 A	SPARE	86	
	87	SPARE	20 A			0	0			20 A	SPARE	88	
	89	SPARE	20 A					0	0	20 A	SPARE	90	
	91	SPARE	20 A	0	0					20 A	SPARE	92	
	93	SPARE	20 A			0	0			20 A	SPARE	94	
	95	SPARE	20 A					0	0	20 A	SPARE	96	
	97	SPARE	20 A	0	0					20 A	SPARE	98	
	99	SPARE	20 A			0	0			20 A	SPARE	100	
	101	SPARE	20 A					0	0	20 A	SPARE	102	
	103	SPARE	20 A	0	0					20 A	SPARE	104	
	105	SPARE	20 A			0	0			20 A	SPARE	106	
	107	SPARE	20 A					0	0	20 A	SPARE	108	
--	109	SPACE	--	0	0					--	SPACE	110	--
--	111	SPACE	--			0	0			--	SPACE	112	--
--	113	SPACE	--					0	0	--	SPACE	114	--
--	115	SPACE	--	0	0					--	SPACE	116	--
--	117	SPACE	--			0	0			--	SPACE	118	--
--	119	SPACE	--					0	0	--	SPACE	120	--
--	121	SPACE	--	0	0					--	SPACE	122	--
--	123	SPACE	--			0	0			--	SPACE	124	--
--	125	SPACE	--					0	0	--	SPACE	126	--
			Total Load:	20946 VA		21527 VA		21006 VA					
			Total Amps:	175 A		179 A		175 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	36546 VA	63.68%	23273 VA	**Total Conn. Load:**	63479 VA
Motor	667 VA	125.00%	834 VA	**Total Est. Demand:**	50048 VA
Appliance	3240 VA	90.00%	2916 VA	**Total Conn.:**	176 A
Equipment	23026 VA	100.00%	23026 VA	**Total Est. Demand:**	139 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CL2A CH2 CL2B

ISSUED FOR CONSTRUCTION

Revisions:	Date
1 ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ANN 8-1-2014

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Drawing Title: **AREA C NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E627**

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U.S. Department of Veterans Affairs

VA FORM 08-6231

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8/3/2014 3:08:23 PM

CL3A

Location: ELECTRICAL 3E53E
Supply From: T-CL3A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	SINK SENSORS	20 A	5	360					20 A	R-MED 3D44	2
3	SCALE W/C 3D53	20 A			240	480			20 A	KIOSK & TV WAITING AREA 3D46	4
5	SCALE W/C 3D55	20 A					240	540	20 A	R-EXAM / TREAT 3E01	6
7	R-EXAM / TREAT 3E03	20 A	540	900					20 A	R-DICTATION 3D35	8
9	R-CONS. 3D64	20 A			720	860			20 A	R-EXAM / TREAT 3E01	10
11	R-GROUP 3D51	20 A					740	1000	20 A	CHAIRS ROOM 3E07, 3E09	12
13	R-CONS. 3D60	20 A	1440	1500					20 A	CHAIRS ROOM 3E03, 3E01, 3E05	14
15	R-WAITING AREA 3D46	20 A			900	1500			20 A	COPIER COPY RM 3D48	16
17	CHAIRS ROOM 3E11, 3E13	20 A					1000	1080	20 A	R-RECEPTION 3D47	18
19	R-ROOM 3D33, 3D39	20 A	1040	1720					20 A	R-ROOM 3D63, 3D61, 3D59, 3D57	20
21	R-ROOM 3D33, 3D37	20 A			1040	1220			20 A	R-ROOM 3D59, 3D57	22
23	R-ROOM 3D39, 3D37	20 A					1040	1220	20 A	R-ROOM 3D63, 3D61	24
25	R-EXAM / TREAT 3E11	20 A	540	540					20 A	R-EXAM / TREAT 3E05	26
27	R-EXAM / TREAT 3E13	20 A			540	540			20 A	R-EXAM / TREAT 3E07	28
29	R-GROUP 3D51	20 A					540	540	20 A	R-EXAM / TREAT 3E09	30
31	R-EXAM / TREAT 3E13	20 A	960	960					20 A	R-EXAM / TREAT 3E07	32
33	SHREDDER COPY RM 3D48	20 A			960	960			20 A	R-EXAM / TREAT 3E09	34
35	SHREDDER RECEPTION 3D47	20 A					960	960	20 A	R-EXAM / TREAT 3E11	36
37	R-CONSULT 3D41	20 A	960	1200					20 A	POKE THRU TEAMLET 2D55B	38
39	R-EXAM / TREAT 3E03	20 A			960	1200			20 A	POKE THRU TEAMLET 2D55C	40
41	R-EXAM / TREAT 3E05	20 A					960	1200	20 A	POKE THRU TEAMLET 2D55C	42
43	POKE THRU TEAMLET 2D55A	20 A	1200	1260					20 A	R-ROOM 3D47, 3D48	44
45	POKE THRU TEAMLET 2D55A	20 A			1200	1260			20 A	R-ROOM 3DCOR03, 3ECOR02,...	46
47	POKE THRU TEAMLET 2D55A	20 A					1200	1260	20 A	R-ROOM 3ECOR02, 3DCOR24,...	48
49	TABLE EXAM 3D61	20 A	1440	1440					20 A	TABLE EXAM 3D33	50
51	TABLE EXAM 3D63	20 A			1440	1440			20 A	TABLE EXAM 3D39	52
53	TABLE GYN EXAM 3D57	20 A					1440	1440	20 A	TABLE EXAM 3D59	54
55	R-OFFICE / EXAM 3D52	20 A	1440	0					20 A	SPARE	56
57	R-OFFICE / EXAM 3D56	20 A			1440	0			20 A	SPARE	58
59	TABLE BARIATRIC EXAM 3D37	20 A					1440	0	20 A	SPARE	60
61	SPARE	20 A	0	0					20 A	SPARE	62
63	SPARE	20 A			0	0			20 A	SPARE	64
65	SPARE	20 A					0	0	20 A	SPARE	66
67	SPARE	20 A	0	0					20 A	SPARE	68
69	SPARE	20 A			0	0			20 A	SPARE	70
71	SPARE	20 A					0	0	20 A	SPARE	72
73	SPARE	20 A	0	0					20 A	SPARE	74
75	SPARE	20 A			0	0			20 A	SPARE	76
77	SPARE	20 A					0	0	20 A	SPARE	78
79	SPARE	20 A	0	0					20 A	SPARE	80
81	SPARE	20 A			0	0			20 A	SPARE	82
83	SPARE	20 A					0	0	20 A	SPARE	84
	Total Load:	19445 VA			18900 VA		18800 VA				
	Total Amps:	162 A			158 A		157 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	44940 VA	61.13%	27470 VA	**Total Conn. Load:**	57145 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	39675 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	159 A
Equipment	12205 VA	100.00%	12205 VA	**Total Est. Demand:**	110 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CH3A

Location: ELECTRICAL 3E53E
Supply From: C-SWGR
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 30,000
Mains Type: MLO
Bus Rating: 600 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			11048	0					--	SPACE	2	--
	3	TAP-CH3B	100 A			12218	13244					4	
	5							8522	12740	125 A	T-CL5A	6	
--	7	SPACE	--	0	12700							8	
--	9	SPACE	--			0	17504					10	
	11							14703	18052	125 A	T-CL4A	12	
	13	T-CL4B	125 A	13760	17540							14	
	15					13946	21392					16	
--	17	SPACE	--					0	19295	125 A	T-CL3B	18	
--	19	SPACE	--	0	20240							20	
	21					18725	19445					22	
	23	T-CL5B	125 A					18226	18900	125 A	T-CL3A	24	
	25			18180	18800							26	
	27					40587	0			--	SPACE	28	--
	29	CHP	225 A					41287	0	--	SPACE	30	--
	31			41070	0					--	SPACE - 3 POLE	32	--
--	33	SPACE	--			0	0			--	-	34	--
--	35	SPACE	--					0	0	--	-	36	--
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
		Total Load:	153338 VA		157060 VA			151726 VA					
		Total Amps:	554 A		568 A			548 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	35484 VA	125.00%	44354 VA		
Receptacle	235978 VA	52.12%	122989 VA	**Total Conn. Load:**	463518 VA
Motor	118887 VA	107.37%	127651 VA	**Total Est. Demand:**	364531 VA
Appliance	10380 VA	65.00%	6747 VA	**Total Conn.:**	558 A
Equipment	62789 VA	100.00%	62789 VA	**Total Est. Demand:**	438 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CL3B

Location: ELECTRICAL 3E53E
Supply From: T-CL3B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	SINK SENSORS	20 A	6	300					20 A	R-PROCEDURE 3E47	2
3	SPARE	20 A			0	360			20 A	R-BROS. 3E37	4
5	W/C STO 3E08	20 A					240	400	20 A	KIOSK & TV WAITING AREA 3E34	6
7	R-STAFF LOUNGE 3E52	20 A	466	600					20 A	R-BROS. 3E37	8
9	PERIMETER PHOTO. 3E31	20 A			500	610			20 A	R-PROCEDURE 3E47	10
11	R-VISUAL FIELD 3E43	20 A					500	660	20 A	R-CONFERENCE 3E19	12
13	R-STAFF WORK 3E30	20 A	680	720					20 A	R-ET LOW VISION 3E41	14
15	SHREDDER RECEPTION 3E33	20 A			960	1040			20 A	R-VISUAL FIELDS 3E32	16
17	R-ET LOW VISION 3E39	20 A					720	1080	20 A	R-RECEPTION 3E33	18
19	FLASH CAMERA PHOTO. 3E31	20 A	960	1080					20 A	R-RECEPTION 3E33	20
21	MICROWAVE STAFF LOUNGE...	20 A			1200	180			20 A	R-U/S OCT 3E26	22
23	R-ROOM 3E18, 3E49, 3E17,...	20 A					1260	180	20 A	R-U/S OCT 3E28	24
25	R-LASER 3E45	20 A	180	720					20 A	R-PROVIDER 3E50	26
27	R-ROOM 3E28, 3E26	20 A			360	960			20 A	R-SPL. TEST 3E25	28
29	R-WAIT. DILATION 3E29	20 A					360	540	20 A	R-VISUAL FIELD 3E43	30
31	R-SPL. TEST 3E25	20 A	540	600					20 A	RECEPTACLE OFFICE, PROVID...	32
33	R-LASER 3E45	20 A			540	960			20 A	R-EXAM / TREAT 3E46	34
35	R-PRE TEST 3E27	20 A					540	540	20 A	RECEPTACLE EXAM / TREAT...	36
37	R-EXAM / TREAT 3E46	20 A	540	960					20 A	R-EXAM / TREAT 3E42	38
39	R-EXAM / TREAT 3E44	20 A			540	540			20 A	R-EXAM / TREAT 3E24	40
41	R-EXAM / TREAT 3E44	20 A					960	540	20 A	R-EXAM / TREAT 3E42	42
43	R-EXAM / TREAT 3E24	20 A	960	540					20 A	R-EXAM / TREAT 3E22	44
45	R-EXAM / TREAT 3E23	20 A			540	960			20 A	R-EXAM / TREAT 3E21	46
47	R-EXAM / TREAT 3E23	20 A					960	960	20 A	R-EXAM / TREAT 3E22	48
49	R-EXAM / TREAT 3E21	20 A	540	960					20 A	R-EXAM / TREAT 3E12	50
51	R-EXAM / TREAT 3E14	20 A			540	540			20 A	R-EXAM / TREAT 3E06	52
53	R-EXAM / TREAT 3E14	20 A					960	540	20 A	R-EXAM / TREAT 3E12	54
55	R-EXAM / TREAT 3E06	20 A	960	960					20 A	R-EXAM / TREAT 3E02	56
57	R-EXAM / TREAT 3E04	20 A			540	960			20 A	R-ET LOW VISION 3E41	58
59	R-EXAM / TREAT 3E04	20 A					960	540	20 A	R-EXAM / TREAT 3E02	60
61	R-ET LOW VISION 3E39	20 A	960	540					20 A	FRIDGE STAFF LOUNGE 3E52	62
63	R-CONFERENCE 3E19	20 A			540	600			20 A	R-VISITOR COUNSELOR 3E38	64
65	R-ELTRICAL 3E53E	20 A					540	600	20 A	R-PROVIDER 3E50	66
67	RECEPTACLE EXAM / TREAT...	20 A	960	720					20 A	R-TELCOMM 3E36T	68
69	R-VISITOR COUNSELOR 3E38	20 A			360	720			20 A	R-STAFF WORK 3E30	70
71	R-WAITING AREA 3E34	20 A					720	720	20 A	R-STAFF WORK 3E30	72
73	R-ROOM 3ECOR06, 3ECOR05	20 A	720	720					20 A	R-PHOTO. 3E31	74
75	R-PROCEDURE 3E47	20 A			720	1000			20 A	CHAIRS ROOM 3E48, 3E46	76
77	R-ROOM 3E28, 3E26	20 A					720	1000	20 A	VAV XFMR CP 3DCOR18,....	78
79	CHAIRS ROOM 3E44, 3E42	20 A	1000	1000					20 A	CHAIRS ROOM 3E14, 3E12	80
81	CHAIRS ROOM 3E22, 3E24	20 A			1000	1500			20 A	CHAIRS ROOM 3E21, 3E23, 3E25	82
83	CHAIRS ROOM 3E39, 3E41	20 A					1000	1500	20 A	COFFEE STAFF LOUNGE 3E52	84
85	CHAIRS ROOM 3E02, 3E06, 3E04	20 A	1500	0					20 A	SPARE	86
87	L-WARNING LIGHT 3E45	20 A			25	0			20 A	SPARE	88
89	SPARE	20 A					0	0	20 A	SPARE	90
91	SPARE	20 A	0	0					20 A	SPARE	92
93	SPARE	20 A			0	0			20 A	SPARE	94
95	SPARE	20 A					0	0	20 A	SPARE	96
97	SPARE	20 A	0	0					20 A	SPARE	98
99	SPARE	20 A			0	0			20 A	SPARE	100
101	SPARE	20 A					0	0	20 A	SPARE	102
103	SPARE	20 A	0	0					20 A	SPARE	104
105	SPARE	20 A			0	0			20 A	SPARE	106
107	SPARE	20 A					0	0	20 A	SPARE	108
109	SPARE	20 A	0	0					20 A	SPARE	110
111	SPARE	20 A			0	0			20 A	SPARE	112
113	SPARE	20 A					0	0	20 A	SPARE	114
115	SPARE	20 A	0	0					20 A	SPARE	116
117	SPARE	20 A			0	0			20 A	SPARE	118
-- 119	SPACE	--					0	0	--	SPACE	120 --
-- 121	SPACE	--	0	0					--	SPACE	122 --
-- 123	SPACE	--			0	0			--	SPACE	124 --
-- 125	SPACE	--					0	0	--	SPACE	126 --
	Total Load:	21392 VA		19295 VA			20240 VA				
	Total Amps:	179 A		161 A			170 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	95 VA	125.00%	119 VA		
Receptacle	56026 VA	58.92%	33013 VA	**Total Conn. Load:**	60927 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	37614 VA
Appliance	3240 VA	90.00%	2916 VA	**Total Conn.:**	169 A
Equipment	1566 VA	100.00%	1566 VA	**Total Est. Demand:**	104 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CH3B

Location: ELECTRICAL 3E53E
Supply From: TAP-CH3B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 25,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 70 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-ROOM 3ECOR03, 3ECOR06,...	20 A	953	3355					20 A	L-ROOM 3D47, 3D63, 3D61, 3D59...	2	
	3	L-GROUP 3D51	20 A			2706	2535			20 A	L-ROOM 3E21, 3E23, 3E25, 3E14,...	4	
	5	SPARE	20 A					0	1585	20 A	L-ROOM 3ECOR06, 3E53E, 3E47,...	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
	11	SPARE	20 A					0	0	20 A	SPARE	12	
	13	SPARE	20 A	0	0					20 A	SPARE	14	
	15	SPARE	20 A			0	0			20 A	SPARE	16	
--	17	SPACE	--					0	0	--	SPACE	18	--
--	19	SPACE	--	0	0					--	SPACE	20	--
--	21	SPACE	--			0	0			--	SPACE	22	--
--	23	SPACE	--					0	0	--	SPACE	24	--
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
--	31	SPACE	--	0	0					--	SPACE	32	--
--	33	SPACE	--			0	0			--	SPACE	34	--
--	35	SPACE	--					0	0	--	SPACE	36	--
--	37	SPACE	--	0	0					--	SPACE	38	--
--	39	SPACE	--			0	0			--	SPACE	40	--
--	41	SPACE	--					0	0	--	SPACE	42	--
		Total Load:	4308 VA		5241 VA			1585 VA					
		Total Amps:	17 A		20 A			6 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	11583 VA	125.00%	14479 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	11583 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	14479 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	14 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	17 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CL3A CH3A CL3B
CH3B

ISSUED FOR CONSTRUCTION

Revisions:		Date
1	ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-12-2014

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Drawing Title:
AREA C NORMAL PANEL SCHEDULES

Approved: Project Director

Project Title
VA Charlotte
Health Care Center

Project Number
SFO# VA-101-10-RP-0081

Building Number

Location
Charlotte, NC

Date 07/21/2014
Checked RJA
Drawn BCE

Drawing Number
E628
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CL4A

Location: ELECTRICAL 4E40E
Supply From: T-CL4A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	PLUGMOLD AUDIO CONTROL...	20 A	0	4					20 A	SINK SENSORS	2
3	SCALE W/C 4D53	20 A			240	400			20 A	KIOSK & TV WAITING AREA 4D46	4
5	SCALE W/C 4D55	20 A					240	400	20 A	L-4E03, 4E03A, 4E05, 4E05A	6
7	R-MED 4D44	20 A	360	500					20 A	ENT UNIT VEST...	8
9	R-GROUP 4D51	20 A			660	900			20 A	R-DICTATION 4D35	10
11	R-OFFICE / EXAM 4D64	20 A					720	900	20 A	R-WAITING AREA 4D46	12
13	R-TECH CUBICLES 4E11	20 A	860	1000					20 A	R-4E03	14
15	SHREDDER COPY RM 4D48	20 A			960	1500			20 A	COPIER COPY RM 4D48	16
17	R-ROOM 4D49, 4DCOR03,...	20 A					1080	1280	20 A	R-CONSULT 4D41	18
19	R-RECEPTION 4D47	20 A	1080	1200					20 A	POKE THRU TEAMLET 3D42A	20
21	ROTATIONAL CHAIR VEST...	20 A			1592	1040			20 A	R-ROOM 4D39, 4D33	22
23	PLUG MOLD GROUP 4D51	20 A					1620	1040	20 A	R-ROOM 4D37, 4D33	24
25	POKE THRU TEAMLET 3D42A	20 A	1200	1040					20 A	R-ROOM 4D39, 4D37	26
27	R-ROOM 4D61, 4D63, 4D59	20 A			1720	540			20 A	R-VEST POSTUROGRAPHY 4E01	28
29	R-ROOM 4D63, 4D59, 4D57	20 A					1220	540	20 A	R-VEST POSTUROGRAPHY 4E01	30
31	R-ROOM 4D61, 4D59, 4D57	20 A	1220	540					20 A	R-TECH CUBICLES 4E11	32
33	R-ROOM 4E11, 4E09	20 A			540	1000			20 A	R-4E05	34
35	R-ROOM 4ECOR01, 4ECOR02	20 A					540	1000	20 A	R-4E05A	36
37	R-GROUP 4D51	20 A	540	1000					20 A	R-4E03A	38
39	POKE THRU TEAMLET 3D42B	20 A			1200	1440			20 A	TABLE GYN EXAM 4D57	40
41	POKE THRU TEAMLET 3D42C	20 A					1200	1440	20 A	TABLE VEST POSTUROGRAPHY...	42
43	POKE THRU TEAMLET 3D42B	20 A	1200	1440					20 A	TABLE EXAM EXRG3A	44
45	TABLE EXAM 4D61	20 A			1440	1440			20 A	TABLE BARIATRIC EXAM 4D37	46
47	TABLE EXAM 4D63	20 A					1440	1440	20 A	TABLE EXAM 4D39	48
49	TABLE EXAM 4D59	20 A	1440	1440					20 A	R-ROOM 4D47, 4D48	50
51	R-OFFICE / EXAM 4D56	20 A			1440	0			20 A	SPARE	52
53	R-OFFICE / EXAM 4D60	20 A					1440	0	20 A	SPARE	54
55	R-OFFICE / EXAM 4D54	20 A	1440	0					20 A	SPARE	56
57	SPARE	20 A			0	0			20 A	SPARE	58
59	SPARE	20 A					0	0	20 A	SPARE	60
61	SPARE	20 A	0	0					20 A	SPARE	62
63	SPARE	20 A			0	0			20 A	SPARE	64
65	SPARE	20 A					0	0	20 A	SPARE	66
67	SPARE	20 A	0	0					20 A	SPARE	68
69	SPARE	20 A			0	0			20 A	SPARE	70
71	SPARE	20 A					0	0	20 A	SPARE	72
73	SPARE	20 A	0	0					20 A	SPARE	74
75	SPARE	20 A			0	0			20 A	SPARE	76
77	SPARE	20 A					0	0	20 A	SPARE	78
79	SPARE	20 A	0	0					20 A	SPARE	80
81	SPARE	20 A			0	0			20 A	SPARE	82
83	SPARE	20 A					0	0	20 A	SPARE	84
		Total Load:	17504 VA		18052 VA		17540 VA				
		Total Amps:	146 A		150 A		146 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	400 VA	125.00%	500 VA		
Receptacle	37460 VA	63.35%	23730 VA	**Total Conn. Load:**	53096 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	39466 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	147 A
Equipment	15236 VA	100.00%	15236 VA	**Total Est. Demand:**	110 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CH4

Location: ELECTRICAL 4E40E
Supply From: TAP-CH4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 25,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 70 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-ROOM 4DCOR05, 4DCOR03,...	20 A	3392	0					20 A	SPARE	2	
	3	L-ROOM 4D39, 4D41, 4D37, 4D63,...	20 A			3514	0			20 A	SPARE	4	
	5	L-ROOM 4E39, 4E37, 4E35, 4E33,...	20 A					3510	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	3392 VA		3514 VA		3510 VA					
			Total Amps:	12 A		13 A		13 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	10859 VA	125.00%	13574 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	10859 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	13574 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	13 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	16 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CL4B

Location: ELECTRICAL 4E40E
Supply From: T-CL4B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	SINK SENSORS	20 A	3	300					20 A	CHAIR PROCEDURE 3E47	2
3	R-AUDIOLOGIST 4E14	20 A			180	400			20 A	WAITING AREA 4E24	4
5	SCALE W/C 4E23	20 A					240	466	20 A	R-STAFF COMMON 4E33	6
7	FRIDGE STAFF COMMON 4E33	20 A	540	860					20 A	R-COPY RM 4E26	8
9	R-AUDIOLOGIST 4E15	20 A			720	900			20 A	R-ROOM 4E34, 4E12, 4E13, 4E36...	10
11	R-AUDIOLOGIST 4E15	20 A					780	960	20 A	R-SPCH. PATH. 4E35	12
13	R-SPCH. ANALYSIS LAB 4E38	20 A	1140	400					20 A	L-3E04, 3E06, 3E29, 3E10R	14
15	R-SPCH. PATH. 4E37	20 A			960	1000			20 A	VAV XFMR CP 4DCOR18,...	16
17	R-ROOM 4E29, 4E31, 4ECOR01,...	20 A					1440	1000	20 A	R-4E04A	18
19	R-4E04	20 A	1000	180					20 A	R-AUDIOLOGIST 4E16	20
21	R-EXAM 4E18	20 A			540	180			20 A	R-AUDIOLOGIST 4E17	22
23	R-STAFF COMMON 4E33	20 A					180	360	20 A	R-ROOM 4E21, 4E19	24
25	R-ELECTRO. PHYS. 4E02	20 A	360	540					20 A	R-SPCH. PATH. 4E35	26
27	R-ROOM 4E20, 4E18	20 A			360	540			20 A	R-SPCH. PATH. 4E37	28
29	R-SPCH. PATH. 4E39	20 A					540	540	20 A	R-INSTR. CALIB 4E08	30
31	R-ELECTRICAL 4E40E	20 A	540	540					20 A	R-AUDIOLOGIST 4E14	32
33	R-HAF 4E32	20 A			540	540			20 A	R-AUDIOLOGIST 4E16	34
35	R-AUDIOLOGIST 4E17	20 A					540	720	20 A	R-WAITING AREA 4E24	36
37	R-HAF 4E32	20 A	720	720					20 A	R-CORRIDOR 4ECOR09	38
39	R-TELCOMM 4E27T	20 A			720	720			20 A	R-ELECTRO. PHYS. 4E02	40
41	R-GROUP / CAT 4E28	20 A					720	960	20 A	SHREDDER RECEPTION 4E25	42
43	R-SPCH. PATH. 4E39	20 A	960	1080					20 A	R-AUDIO EXAM 4E06	44
45	SHREDDER COPY RM 4E26	20 A			960	1080			20 A	R-RECEPTION 4E25	46
47	R-TECH CUBICLES 4E11	20 A					1080	540	20 A	R-EXAM 4E21	48
49	R-EXAM 4E19	20 A	540	1000					20 A	R-4E06A	50
51	R-EXAM 4E20	20 A			540	600			20 A	CHAIR EXAM 4E18, 4E20	52
53	CHAIRS EXAM 4E19, 4E21	20 A					600	1500	20 A	MICROWAVE STAFF COMMON...	54
55	COFFEE STAFF COMMON 4E33	20 A	1500	1000					20 A	R-4E06	56
57	COPIER COPY RM 4E26	20 A			1500	0			20 A	SPARE	58
59	R-SYS. FURNITURE AUDIOLOGI...	20 A					780	0	20 A	SPARE	60
61	R-SYS. FURNITURE AUDIOLOGI...	20 A	780	0					20 A	SPARE	62
63	R-SYS. FURNITURE...	20 A			780	0			20 A	SPARE	64
65	SPARE	20 A					0	0	20 A	SPARE	66
67	SPARE	20 A	0	0					20 A	SPARE	68
69	SPARE	20 A			0	0			20 A	SPARE	70
71	SPARE	20 A					0	0	20 A	SPARE	72
73	SPARE	20 A	0	0					20 A	SPARE	74
75	SPARE	20 A			0	0			20 A	SPARE	76
77	SPARE	20 A					0	0	20 A	SPARE	78
79	SPARE	20 A	0	0					20 A	SPARE	80
81	SPARE	20 A			0	0			20 A	SPARE	82
83	SPARE	20 A					0	0	20 A	SPARE	84
		Total Load:	14703 VA		13760 VA		13946 VA				
		Total Amps:	123 A		115 A		116 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	400 VA	125.00%	500 VA		
Receptacle	34106 VA	64.66%	22053 VA	**Total Conn. Load:**	42409 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	30102 VA
Appliance	3540 VA	90.00%	3186 VA	**Total Conn.:**	118 A
Equipment	4363 VA	100.00%	4363 VA	**Total Est. Demand:**	84 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CL4A CH4 CL4B

ISSUED FOR CONSTRUCTION

Revisions:		Date
1	ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-12-2014

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Drawing Title: **AREA C NORMAL PANEL SCHEDULES**
Approved: Project Director

Project Title: VA Charlotte Health Care Center
Location: Charlotte, NC
Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081
Building Number:
Drawing Number: **E629**
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VA FORM 08-6231

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CL5A

Location: ELECTRICAL 5E36E
Supply From: T-CL5A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	4	600					20 A	R-LPN / PA 5D51	2	
	3	STRETCHER 5D38	20 A			240	600			20 A	R-LPN / PA 5D52	4	
	5	R-TREATMENT / PROC 5E05	20 A					420	740	20 A	R-GROUP 5E04	6	
	7	R-ROOM 5ECOR01, 5DCOR14,...	20 A	820	900					20 A	CHAIRS-GI INFUSION 5D47	8	
	9	R-OFFICE, RN(MH) 5D45	20 A			1440	2080			20 A	R-OFFICE, PHYSICIAN 5D42	10	
	11	R-TREATMENT / PROC 5E05	20 A					860	900	20 A	R-ROOM 5ECOR03, 5DCOR09,...	12	
	13	R-MED 5D49	20 A	960	1080					20 A	R-ROOM 5ECOR01, 5D35	14	
	15	R-ROOM 5D48, 5D47	20 A			720	1220			20 A	R-ROOM 5D39, 0B42	16	
	17	TABLE EXAM 5E07	20 A					1440	1220	20 A	R-ROOM 5D41, 5D43, 0B42	18	
	19	R-ROOM 5E09, 5E08, 5E07	20 A	1400	1720					20 A	R-ROOM 5D39, 5D41, 5D43	20	
	21	R-ROOM 5E10, 5E09, 5E08, 5E07	20 A			1400	720			20 A	R-GI INFUSION 5D47	22	
	23	R-ROOM 5E10, 5E09	20 A					1360	720	20 A	R-STAFF WORK AREA 5D32	24	
	25	R-LPN / PA 5D37	20 A	720	720					20 A	R-GI INFUSION 5D47	26	
	27	TABLE SP EXAM 5D43	20 A			1440	1440			20 A	TABLE SP EXAM 5D39	28	
	29	R-GROUP 5E04	20 A					720	1440	20 A	TABLE TREATMENT / PROC 5E05	30	
	31	TABLE SP EXAM 5D41	20 A	1440	1440					20 A	TABLE EXAM 5E18	32	
	33	TABLE EXAM 5E09	20 A			1440	0			20 A	SPARE	34	
	35	TABLE SP EXAM 5D40	20 A					1440	1440	20 A	TABLE EXAM 5E10	36	
	37	TABLE EXAM 5E08	20 A	1440	0					20 A	SPARE	38	
	39	SPARE	20 A			0	0			20 A	SPARE	40	
	41	SPARE	20 A					0	0	20 A	SPARE	42	
	43	SPARE	20 A	0	0					20 A	SPARE	44	
	45	SPARE	20 A			0	0			20 A	SPARE	46	
	47	SPARE	20 A					0	0	20 A	SPARE	48	
	49	SPARE	20 A	0	0					20 A	SPARE	50	
	51	SPARE	20 A			0	0			20 A	SPARE	52	
	53	SPARE	20 A					0	0	20 A	SPARE	54	
	55	SPARE	20 A	0	0					20 A	SPARE	56	
	57	SPARE	20 A			0	0			20 A	SPARE	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
--	67	SPACE	--	0	0					--	SPACE	68	--
--	69	SPACE	--			0	0			--	SPACE	70	--
--	71	SPACE	--					0	0	--	SPACE	72	--
--	73	SPACE	--	0	0					--	SPACE	74	--
--	75	SPACE	--			0	0			--	SPACE	76	--
--	77	SPACE	--					0	0	--	SPACE	78	--
--	79	SPACE	--	0	0					--	SPACE	80	--
--	81	SPACE	--			0	0			--	SPACE	82	--
--	83	SPACE	--					0	0	--	SPACE	84	--
			Total Load:	13244 VA		12740 VA		12700 VA					
			Total Amps:	110 A		106 A		106 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	24020 VA	70.82%	17010 VA	**Total Conn. Load:**	38684 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	31674 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	107 A
Equipment	14664 VA	100.00%	14664 VA	**Total Est. Demand:**	88 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CH5

Location: ELECTRICAL 5E36E
Supply From: TAP-CH4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 25,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 70 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-ROOM 5DCOR16, 5DCOR07,...	20 A	3361	0					20 A	SPARE	2	
	3	L-ROOM 5E04, 5D46, 5D45, 5D44,...	20 A			3477	0			20 A	SPARE	4	
	5	L-ROOM 5E41, 5E42, 5E38, 5E39,...	20 A					3427	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
			Total Load:	3361 VA		3477 VA		3427 VA					
			Total Amps:	12 A		13 A		12 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	10681 VA	125.00%	13351 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	10681 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	13351 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	13 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	16 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CL5B

Location: ELECTRICAL 5E36E
Supply From: T-CL5B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SINK SENSORS	20 A	5	300					20 A	EQUIPMENT WAITING AREA 5E01	2	
	3	APPLIANCE STAFF LOUNGE 5E31	20 A			180	360			20 A	R-ROOM 5E42, 5E41	4	
	5	DRINKING FOUNTAIN CORRIDO...	20 A					180	360	20 A	ROOM 5E15, 5E20	6	
	7	R-TREATMENT / PROC 5E27	20 A	420	540					20 A	R-CONFERENCE 5E45	8	
	9	R-STAFF LOUNGE 5E31	20 A			466	660			20 A	R-TRAIN 5E44	10	
	11	FRIDGE STAFF LOUNGE 5E31	20 A					540	660	20 A	R-TRAIN 5E46	12	
	13	R-ROOM 5E40, 5E30, 5E37,...	20 A	720	1080					20 A	R-RECEPTION 5E02	14	
	15	R-TELCOMM 5E49T	20 A			720	860			20 A	R-EXAM 5E42	16	
	17	R-EXAM 5E41	20 A					860	1500	20 A	COPIER COPY RM 5E03	18	
	19	MICROWAVE STAFF LOUNGE...	20 A	1200	1500					20 A	COFFEE STAFF LOUNGE 5E31	20	
	21	R-ROOM 5ECOR01, 5ECOR12,...	20 A			1080	1440			20 A	R-OFFICE 5E38	22	
	23	R-CORRIDOR 5ECOR01	20 A					1620	1040	20 A	R-ROOM 5E17, 5E19	24	
	25	R-ROOM 5E29, 5E28, 5E26, 5E25	20 A	1720	1040					20 A	R-ROOM 5E17, 5E18	26	
	27	R-ROOM 5E28, 5E26, 5E25	20 A			1220	1040			20 A	R-ROOM 5E18, 5E19	28	
	29	R-ROOM 5E29, 5E28	20 A					1220	540	20 A	R-TREATMENT / PROC 5E27	30	
	31	R-ELECTRICAL 5E36E	20 A	540	900					20 A	R-CONFERENCE 5E45	32	
	33	R-STORAGE 5E43	20 A			540	900			20 A	R-CONFERENCE 5E45	34	
	35	R-REC. ROOM 5E47	20 A					900	960	20 A	SHREDDER RECEPTION 5E02	36	
	37	R-OFFICE 5E40	20 A	960	1080					20 A	R-ROOM 5ECOR03, 5ECOR14,...	38	
	39	SHREDDER COPY RM 5E03	20 A			960	1080			20 A	R-ROOM 5ECOR05, 5E02	40	
	41	R-TRAIN 5E46	20 A					1080	1200	20 A	R-TECH CUBICLES 4E11	42	
	43	R-EXAM 4E18	20 A	1200	1200					20 A	R-AUDIO CONTROL 4E05A	44	
	45	R-STO EQUIP 4E09	20 A			1200	1200			20 A	R-AUDIO EXAM 4E06	46	
	47	R-CORRIDOR 5ECOR07	20 A					1200	1440	20 A	TABLE EXAM 5E42	48	
	49	TABLE EXAM 5E29	20 A	1440	1440					20 A	TABLE EXAM 5E25	50	
	51	TABLE EXAM 5E41	20 A			1440	1440			20 A	TABLE EXAM 5E26	52	
	53	TABLE EXAM 5E28	20 A					1440	1440	20 A	TABLE EXAM 5E19	54	
	55	R-REC. ROOM 5E47	20 A	1440	0					20 A	SPARE	56	
	57	TABLE 5E17	20 A			1440	0			20 A	SPARE	58	
	59	SPARE	20 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
	67	SPARE	20 A	0	0					20 A	SPARE	68	
	69	SPARE	20 A			0	0			20 A	SPARE	70	
	71	SPARE	20 A					0	0	20 A	SPARE	72	
	73	SPARE	20 A	0	0					20 A	SPARE	74	
	75	SPARE	20 A			0	0			20 A	SPARE	76	
	77	SPARE	20 A					0	0	20 A	SPARE	78	
	79	SPARE	20 A	0	0					--	SPACE	80	--
	81	SPARE	20 A			0	0			--	SPACE	82	--
	83	SPARE	20 A					0	0	--	SPACE	84	--
			Total Load:	18725 VA		18226 VA		18180 VA					
			Total Amps:	156 A		152 A		152 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	37626 VA	63.29%	23813 VA	**Total Conn. Load:**	55131 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	40238 VA
Appliance	3600 VA	70.00%	2520 VA	**Total Conn.:**	153 A
Equipment	13905 VA	100.00%	13905 VA	**Total Est. Demand:**	112 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CL5A CH5 CL5B

ISSUED FOR CONSTRUCTION

Revisions:		Date
1	ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNN 8-12-14

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Drawing Title: **AREA C NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E630**

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U.S. Department of Veterans Affairs

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VA FORM 08-6231

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CHP

Location: ELECTRICAL 6E02E
Supply From: CH3A
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 25,000
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 225 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SPARE	20 A	0	797					15 A	EF-6C05	2	
	3	L-ROOM 6E02E, 6E01	20 A			1216	797					4	
	5	T-CLP	35 A	3087	6108			3570	797			6	
	7									50 A	AHU-5-R1 RETURN FAN 6E01	8	
	9					2630	6108					10	
	11	AHU-5-R2 RETURN FAN 6E01	50 A	6108	11686			6108	6108			12	
	13					6108	11686			70 A	AHU-5-S1 SUPPLY FAN 6E01	14	
	15	AHU-5-S2 SUPPLY FAN 6E01	70 A	11686	558			11686	11686			16	
	17					11686	558			15 A	DHWP-2 DOMESTIC HOT WATER PUMP-2	18	
	19							558	558			20	
	21	DHWP-3 DOMESTIC HOT WATER PUMP-3	15 A	558	0					--	SPACE - 3 POLE	22	--
	23					558	0			--	-	24	--
--	25	-	--					0	0	--	-	26	--
--	27	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	28	--
--	29	-	--			0	0			--	-	30	--
--	31	-	--					0	0	--	-	32	--
--	33	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	34	--
--	35	-	--			0	0			--	-	36	--
--	37	-	--					0	0	--	-	38	--
--	39	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	40	--
--	41	-	--			0	0			--	-	42	--
			Total Load:	40587 VA		41346 VA		41070 VA					
			Total Amps:	147 A		150 A		149 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	1466 VA	125.00%	1833 VA		
Receptacle	1800 VA	100.00%	1800 VA	**Total Conn. Load:**	123003 VA
Motor	118887 VA	107.37%	127651 VA	**Total Est. Demand:**	132134 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	148 A
Equipment	850 VA	100.00%	850 VA	**Total Est. Demand:**	159 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLP

Location: ELECTRICAL 6E02E
Supply From: T-CLP
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	R-PENTHOUSE ROOF	20 A	720	540					20 A	R-PENTHOUSE ROOF	2	
	3	R-ELECTRICAL 6E02E	20 A			540	1127			20 A	EF-6C02	4	
	5	EF-6C01	20 A					790	920	20 A	EF-6C04	6	
	7			790	920							8	
	9	EF-6C03	20 A			920	250			20 A	L-AHU-5 120V POWER 6E01	10	
	11							920	0	20 A	SPARE	12	
	13	H-5 HUMIDIFIER FOR AHU-5	20 A	600	0					20 A	SPARE	14	
	15	F-1 COPPER-SILVER FILTER...	20 A			250	0			20 A	SPARE	16	
	17	SPARE	20 A					0	0	20 A	SPARE	18	
--	19	SPACE	--	0	0					--	SPACE	20	--
--	21	SPACE	--			0	0			--	SPACE	22	--
--	23	SPACE	--					0	0	--	SPACE	24	--
			Total Load:	3570 VA		3087 VA		2630 VA					
			Total Amps:	30 A		26 A		22 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	250 VA	125.00%	313 VA		
Receptacle	1800 VA	100.00%	1800 VA	**Total Conn. Load:**	9287 VA
Motor	6387 VA	107.20%	6847 VA	**Total Est. Demand:**	9810 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	26 A
Equipment	850 VA	100.00%	850 VA	**Total Est. Demand:**	27 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CHP CLP

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title: **AREA C NORMAL PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number:

Drawing Number: **E631**

Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

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CHS1

Location: ELECTRICAL 1E25E
Supply From: TAP-CHS1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 80 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SPARE	20 A	0	3108					20 A	L-CORRIDOR 1CCOR04	2	
	3	SPARE	20 A			0	491			20 A	L-STAIR 1 1S01	4	
	5	SPARE	20 A					0	575	20 A	L-STAIR 5-1 0S05-1	6	
	7	L-STAIR 6 1S06	20 A	487	399					20 A	L-STAIR 7 5S07	8	
	9					820	0			20 A	SPARE	10	
	11	T-CLS1	35 A					720	0	--	SPACE	12	--
	13			1127	0					--	SPACE - 3 POLE	14	--
--	15	SPACE	--			0	0			--	-	16	--
--	17	SPACE	--					0	0	--	-	18	--
			Total Load:	5121 VA		1311 VA		1295 VA					
			Total Amps:	18 A		5 A		5 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	5440 VA	125.00%	6801 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	8107 VA
Motor	2327 VA	112.11%	2609 VA	**Total Est. Demand:**	9749 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	10 A
Equipment	340 VA	100.00%	340 VA	**Total Est. Demand:**	12 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CHS2

Location: ELECTRICAL 2E41E
Supply From: TAP-CHS2
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 80 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SPARE	20 A	0	2417					20 A	L-CORRIDOR 2DCOR05	2	
	3					700	0			20 A	SPARE	4	
	5	T-CLS2	35 A					0	0	20 A	SPARE	6	
	7			0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	-	--			0	0			--	-	16	--
--	17	-	--					0	0	--	-	18	--
			Total Load:	2417 VA		700 VA		0 VA					
			Total Amps:	9 A		3 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	2802 VA	125.00%	3503 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	3502 VA
Motor	600 VA	112.50%	675 VA	**Total Est. Demand:**	4278 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	4 A
Equipment	100 VA	100.00%	100 VA	**Total Est. Demand:**	5 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CHSG

Location: C-SWGR 0D28E
Supply From: TAP-CHSG
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 80 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1			2560	2018							2	
	3	T-CLSG	35 A			2020	2018			15 A	JP-1 JOCKEY PUMP-1 FIRE PUMP 0D29	4	
	5							2240	2018			6	
--	7	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	8	--
--	9	-	--			0	0			--	-	10	--
--	11	-	--					0	0	--	-	12	--
--	13	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	-	--			0	0			--	-	16	--
--	17	-	--					0	0	--	-	18	--
			Total Load:	4578 VA		4038 VA		4258 VA					
			Total Amps:	17 A		15 A		15 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	2340 VA	100.00%	2340 VA	**Total Conn. Load:**	12875 VA
Motor	7555 VA	120.04%	9069 VA	**Total Est. Demand:**	14089 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	15 A
Equipment	480 VA	100.00%	480 VA	**Total Est. Demand:**	17 A
Heating	0 VA	0.00%	0 VA		
Elevator	2000 VA	85.00%	1700 VA		

Notes:

CHS3

Location: ELECTRICAL 3E53E
Supply From: TAP-CHS3
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 80 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-CORRIDOR 3ECOR03	20 A	1673	700							2	
	3					2751	0			35 A	T-CLS3	4	
	5	TAP-AHS4	20 A					2173	0			6	
	7			100	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
	11	SPARE	20 A					0	0	20 A	SPARE	12	
--	13	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	-	--			0	0			--	-	16	--
--	17	-	--					0	0	--	-	18	--
			Total Load:	2473 VA		2751 VA		2173 VA					
			Total Amps:	9 A		10 A		8 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	7310 VA	125.00%	9138 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	8810 VA
Motor	1200 VA	106.25%	1275 VA	**Total Est. Demand:**	10713 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	11 A
Equipment	300 VA	100.00%	300 VA	**Total Est. Demand:**	13 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CHS4

Location: ELECTRICAL 4E40E
Supply From: TAP-CHS4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 80 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-ROOM 4CCOR04, 4CCOR12,...	20 A	2223	0					20 A	SPARE	2	
	3					700	0			20 A	SPARE	4	
	5	T-CLS4	35 A					0	0	20 A	SPARE	6	
	7			0	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	-	--			0	0			--	-	16	--
--	17	-	--					0	0	--	-	18	--
			Total Load:	2223 VA		700 VA		0 VA					
			Total Amps:	8 A		3 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	2341 VA	125.00%	2927 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	3041 VA
Motor	600 VA	112.50%	675 VA	**Total Est. Demand:**	3702 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	4 A
Equipment	100 VA	100.00%	100 VA	**Total Est. Demand:**	4 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CHS5

Location: ELECTRICAL 5E36E
Supply From: TAP-CHS4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 80 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	L-ROOM 6D01, 6D02	20 A	938	0					20 A	SPARE	2	
	3	L-ROOM 5CCOR03, 5CCOR06,...	20 A			1923	0			20 A	SPARE	4	
	5							100	0	20 A	SPARE	6	
	7	T-CLS5	35 A	0	0					20 A	SPARE	8	
	9					0	0			20 A	SPARE	10	
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE - POLE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	-	--			0	0			--	-	16	--
--	17	-	--					0	0	--	-	18	--
			Total Load:	938 VA		1923 VA		100 VA					
			Total Amps:	4 A		7 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	3212 VA	125.00%	4016 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	3312 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	4116 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	4 A
Equipment	100 VA	100.00%	100 VA	**Total Est. Demand:**	5 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CHS1 CHS2 CHSG
CHS3 CHS4 CHS5

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title: **AREA C EMERGENCY PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E632**

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

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U.S. Department of Veterans Affairs

VA FORM 08-6231

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CLS1

Location: ELECTRICAL 1E25E
Supply From: T-CLS1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	FAJB TELECOM 1E55T	20 A	100	120					20 A	GAP-1 GENERATOR...	2	
	3	MEDICAL ALARM PANEL-1	20 A			120	600			20 A	AUTODOOR TOILET 1D19R,...	4	
	5	FRONT CANOPY AIR...	20 A					1127	0	20 A	SPARE	6	
	7	AUTODOOR MAIN ENTRY	20 A	300	300					20 A	AUTODOOR VESTIBULE 1D01	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
	11	SPARE	20 A					0	0	20 A	SPARE	12	
	13	SPARE	20 A	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
		Total Load:	820 VA			720 VA		1127 VA					
		Total Amps:	7 A			6 A		10 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	2667 VA
Motor	2327 VA	112.11%	2609 VA	**Total Est. Demand:**	2949 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	7 A
Equipment	340 VA	100.00%	340 VA	**Total Est. Demand:**	8 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLS2

Location: ELECTRICAL 2E41E
Supply From: T-CLS2
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	AUTODOORS RESTROOMS	20 A	600	100					20 A	FAJB TELECOM 2E28T	2	
	3	SPARE	20 A			0	0			20 A	SPARE	4	
	5	SPARE	20 A					0	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
		Total Load:	700 VA			0 VA		0 VA					
		Total Amps:	6 A			0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	700 VA
Motor	600 VA	112.50%	675 VA	**Total Est. Demand:**	775 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	2 A
Equipment	100 VA	100.00%	100 VA	**Total Est. Demand:**	2 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLSG

Location: C-SWGR 0D28E
Supply From: T-CLSG
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	MGM-1 MANIFOLD-HOLDING 0C18	20 A	120	600					20 A	AUTODOORS CORRIDORS	2	
	3	AUTODOOR AMBULANCE...	20 A			300	300			20 A	AUTODOORS LOADING DOCK	4	
	5	R-C-SWGR 0D28E	20 A					540	540	20 A	R-ELECTRICAL 0D37E	6	
	7	R-ELECTRICAL 0D39E	20 A	720	120					20 A	MGM-2 MANIFOLD-MED GAS...	8	
	9	AUTODOORS MAIL AND...	20 A			300	120			20 A	MGM-3 MANIFOLD-MED GAS...	10	
	11	R-FIRE PUMP 0D29	20 A					540	120	20 A	MGM-4 MANIFOLD-MED GAS...	12	
	13	ELEVATOR ELEVATOR MACH-2...	20 A	500	500					20 A	OTHER ELEVATOR MACH-2...	14	
	15	ELEVATOR ELEVATOR MACH-2...	20 A			500	500			20 A	ELEVATOR ELEVATOR MACH-2...	16	
	17	SPARE	20 A					0	500	20 A	POWER MCR 0B39	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
--	23	SPACE	--					0	0	--	SPACE	24	--
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
		Total Load:	2560 VA			2020 VA		2240 VA					
		Total Amps:	22 A			17 A		19 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	2340 VA	100.00%	2340 VA	**Total Conn. Load:**	6820 VA
Motor	1500 VA	105.00%	1575 VA	**Total Est. Demand:**	6595 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	19 A
Equipment	480 VA	100.00%	480 VA	**Total Est. Demand:**	18 A
Heating	0 VA	0.00%	0 VA		
Elevator	2000 VA	85.00%	1700 VA		

Notes:

CLS3

Location: ELECTRICAL 3E53E
Supply From: T-CLS3
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	AUTODOORS RESTROOMS	20 A	600	100					20 A	FAJB TELECOM 3E36T	2	
	3	SPARE	20 A			0	0			20 A	SPARE	4	
	5	SPARE	20 A					0	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
		Total Load:	700 VA			0 VA		0 VA					
		Total Amps:	6 A			0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	700 VA
Motor	600 VA	112.50%	675 VA	**Total Est. Demand:**	775 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	2 A
Equipment	100 VA	100.00%	100 VA	**Total Est. Demand:**	2 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLS4

Location: ELECTRICAL 4E40E
Supply From: T-CLS4
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	AUTODOORS RESTROOMS	20 A	600	100					20 A	FAJB TELECOM 4E27T	2	
	3	SPARE	20 A			0	0			20 A	SPARE	4	
	5	SPARE	20 A					0	0	20 A	SPARE	6	
	7	SPARE	20 A	0	0					20 A	SPARE	8	
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
		Total Load:	700 VA			0 VA		0 VA					
		Total Amps:	6 A			0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	700 VA
Motor	600 VA	112.50%	675 VA	**Total Est. Demand:**	775 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	2 A
Equipment	100 VA	100.00%	100 VA	**Total Est. Demand:**	2 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLS5

Location: ELECTRICAL 5E36E
Supply From: T-CLS5
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	FAJB TELECOM 5E49T	20 A	100	0					20 A	SPARE	2	
	3	SPARE	20 A			0	0			20 A	SPARE	4	
	5	SPARE	20 A					0	0	20 A	SPARE	6	
--	7	SPACE	--	0	0					--	SPACE	8	--
--	9	SPACE	--			0	0			--	SPACE	10	--
--	11	SPACE	--					0	0	--	SPACE	12	--
--	13	SPACE	--	0	0					--	SPACE	14	--
--	15	SPACE	--			0	0			--	SPACE	16	--
--	17	SPACE	--					0	0	--	SPACE	18	--
		Total Load:	100 VA			0 VA		0 VA					
		Total Amps:	1 A			0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	100 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	100 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	0 A
Equipment	100 VA	100.00%	100 VA	**Total Est. Demand:**	0 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLS1 CLS2 CLSG
CLS3 CLS4 CLS5

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-1-2014
CAVEO PROJECT: CA-2351 08/08/2014

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Drawing Title:
AREA C EMERGENCY PANEL SCHEDULES

Approved: Project Director

Project Title: VA Charlotte Health Care Center
Project Number: SFO# VA-101-10-RP-0081
Building Number:
Location: Charlotte, NC
Drawing Number: **E633**
Date: 07/21/2014 | Checked: RJA | Drawn: BCE
Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

8/3/2014 3:08:37 PM

CLC1

Location: ELECTRICAL 1E25E
Supply From: T-CLC1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: MULTIPLE SECTION PANELBOARD WITH A MCB IN THE FIRST SECTION AND MLO IN THE FOLLOWING SECTIONS.

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	R-1E47, 1E46, 1E45, 1E44	20 A	720	360					20 A	R-ROOM 1E37-38	2
3	R-ROOM 1E39-40	20 A			360	540			20 A	R-1E37, 1E38, 1E39	4
5	HEMODIALYSIS UNIT 1E37	20 A					1920	1920	20 A	HEMODIALYSIS UNIT 1E38	6
7	HEMODIALYSIS UNIT 1E39	20 A	1920	1920					20 A	HEMODIALYSIS UNIT 1E40	8
9	HEMODIALYSIS UNIT 1E42	20 A			1920	1920			20 A	HEMODIALYSIS UNIT 1E43	10
11	EQUIPMENT RENAL DIALYSIS...	20 A					1920	1920	20 A	HEMODIALYSIS UNIT 1E45	12
13	HEMODIALYSIS UNIT 1E46	20 A	1920	1920					20 A	HEMODIALYSIS UNIT 1E47	14
15	HEMODIALYSIS UNIT 1E48	20 A			1920	1920			20 A	HEMODIALYSIS UNIT 1E32	16
17	HEMODIALYSIS UNIT 1E33	20 A					1920	1920	20 A	HEMODIALYSIS UNIT 1E34	18
19	HEMODIALYSIS UNIT 1E49	20 A	1920	1920					20 A	HEMODIALYSIS UNIT 1E35	20
21	HEMODIALYSIS UNIT 1E36	20 A			1920	360			20 A	R-ROOM 1E42-43	22
23	R-ROOM 1E45, 1E44	20 A					360	360	20 A	R-ROOM 1E47, 1E46	24
25	R-ROOM 1E32, 1E48	20 A	360	360					20 A	R-ROOM 1E33, 1E34	26
27	R-ROOM 1E35, 1E36	20 A			360	540			20 A	R-1E40, 1E43, 1E42	28
29	R-1E49, 1E35, 1E36	20 A					540	720	20 A	R-1E48, 1E32, 1E33, 1E34	30
31	R-TREATMENT / PROC 1D79	20 A	360	280					20 A	R-TREATMENT / PROC 1D79	32
33	UC FRIDGE MED 1D90	20 A			180	540			20 A	R-ROOM 1E49	34
35	R-TEAMLET 1E26	20 A					1320	1140	20 A	R-TEAMLET 1E28	36
37	UC FRIDGE LAB 1E27	20 A	960	1200					20 A	UC FREEZER LAB 1E27	38
39	OMNICELL MED 1E21	20 A			180	180			20 A	OMNICELL MED 1E21	40
41	UC FRIDGE MED 1E21	20 A					180	180	20 A	R-MED 1D90	42
43	R-ELECTRICAL 1E25E	20 A	540	1116					20 A	L-ROOM 1E40, 1E39, 1E38, 1E37,...	44
45	L-ROOM 1E26, 1ECOR03, 1E27,...	20 A			1314	300			20 A	AUTODOOR DIALYSIS	46
47	R-ELECTRICAL 2E41E	20 A					540	150	20 A	FCU-0B01,0B02,0C01, 1C02,1C03,2C02	48
49	R-ELECTRICAL 3E53E	20 A	540	150							50
51	R-BIOMED ENGINEERING 1E20	20 A			540	200			20 A	FCU-3C02	52
53	RO IMAGER-WATER TREATMENT 1E17	20 A	721	1000			721	200			54
55									20 A	VAV XFMR CP 1D66, 1ECOR01	56
57					721	960			20 A	DEMINERALIZER-WATER...	58
59	FRIDGE NOURISHMENT 1E51	20 A					540	1080	20 A	R-WATER TREATMENT 1E17	60
61	SPARE	20 A	0	1260					20 A	PLUGMOLD 1E20	62
63	SPARE	20 A			0	0			20 A	SPARE	64
65	SPARE	20 A					0	0	20 A	SPARE	66
67	SPARE	20 A	0	0					20 A	SPARE	68
69	SPARE	20 A			0	0			20 A	SPARE	70
71	SPARE	20 A					0	0	20 A	SPARE	72
73	SPARE	20 A	0	0					20 A	SPARE	74
75	SPARE	20 A			0	0			20 A	SPARE	76
77	SPARE	20 A					0	0	20 A	SPARE	78
79	SPARE	20 A	0	0					20 A	SPARE	80
81	SPARE	20 A			0	0			20 A	SPARE	82
83	SPARE	20 A					0	0	20 A	SPARE	84
		Total Load:	21447 VA		16875 VA		19551 VA				
		Total Amps:	182 A		141 A		166 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	2530 VA	125.00%	3163 VA		
Receptacle	14520 VA	84.44%	12260 VA	**Total Conn. Load:**	57872 VA
Motor	1000 VA	107.50%	1075 VA	**Total Est. Demand:**	55402 VA
Appliance	3060 VA	70.00%	2142 VA	**Total Conn.:**	161 A
Equipment	36762 VA	100.00%	36762 VA	**Total Est. Demand:**	154 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLC3T

Location: TELECOM 3E36T
Supply From: T-CLC3T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
1	TCP-3C01 3E36T	20 A	250	540					20 A	R-TELCOMM 3E36T	2	
3	L-TELCOMM 3E36T	20 A			384	540			20 A	R-TELCOMM 3E36T	4	
5	R-TELCOMM 3E36T	20 A					1250	1250	20 A	R-TELCOMM 3E36T	6	
7	R-TELCOMM 3E36T	20 A	1250	50					20 A	FCU-3C01	8	
9	R-TELCOMM 3E36T	20 A			1250	50					10	
11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 3E36T	12	
13	R-TELECOM 3E36T	20 A	1250	1250					20 A	R-TELECOM 3E36T	14	
15	R-TELECOM 3E36T	20 A			1250	0			20 A	SPARE	16	
17	SPARE-BUILDING PANEL	20 A					0	0	20 A	SPARE	18	
19	SPARE	20 A	0	0					20 A	SPARE	20	
21	SPARE	20 A			0	0			20 A	SPARE	22	
23	SPARE	20 A					0	0	20 A	SPARE	24	
25	SPACE	--	0	0					--	SPACE	26	--
27	SPACE	--			0	0			--	SPACE	28	--
29	SPACE	--					0	0	--	SPACE	30	--
		Total Load:	4590 VA		3474 VA		3750 VA					
		Total Amps:	39 A		29 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	384 VA	125.00%	480 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11814 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11935 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	33 A
Equipment	10250 VA	100.00%	10250 VA	**Total Est. Demand:**	33 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLC4T

Location: TELECOM 4E27T
Supply From: T-CLC4T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
1	TCP-4C01 4E27T	20 A	250	540					20 A	R-TELCOMM 4E27T	2	
3	L-TELCOMM 4E27T	20 A			384	540			20 A	R-TELCOMM 4E27T	4	
5	R-TELCOMM 4E27T	20 A					1250	1250	20 A	R-TELCOMM 4E27T	6	
7	R-TELCOMM 4E27T	20 A	1250	50					20 A	FCU-4C01	8	
9	R-TELCOMM 4E27T	20 A			1250	50					10	
11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 4E27T	12	
13	R-TELECOM 4E27T	20 A	1250	1250					20 A	R-TELECOM 4E27T	14	
15	R-TELECOM 4E27T	20 A			1250	0			20 A	SPARE-BUILDING PANEL	16	
17	SPARE	20 A					0	0	20 A	SPARE	18	
19	SPARE	20 A	0	0					20 A	SPARE	20	
21	SPARE	20 A			0	0			20 A	SPARE	22	
23	SPARE	20 A					0	0	20 A	SPARE	24	
25	SPACE	--	0	0					--	SPACE	26	--
27	SPACE	--			0	0			--	SPACE	28	--
29	SPACE	--					0	0	--	SPACE	30	--
		Total Load:	4590 VA		3474 VA		3750 VA					
		Total Amps:	39 A		29 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	384 VA	125.00%	480 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11814 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11935 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	33 A
Equipment	10250 VA	100.00%	10250 VA	**Total Est. Demand:**	33 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLQP

Location: ELECTRICAL 6E02E
Supply From: T-CLQP
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: EQUIPMENT

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	VAV XFMR CP 6E02E	20 A	100	250					20 A	DX-6C01 6E01	2
3	TCP-6C01 & 6C02 6E01	20 A			500	500			20 A	TCP-6C03 & 6C04 6E01	4
5	R-ELECTRICAL 6E02E	20 A					540	540	20 A	R-ELECTRICAL 4E40E	6
7	R-ELECTRICAL 5E36E	20 A	540	200					20 A	FCU-4C02,4C03,5C02,6C01	8
9	WH-1 DOMESTIC WATER HEATER	20 A			1080	200					10
11	WH-3 DOMESTIC WATER HEATER	20 A					1080	0	20 A	SPARE	12
13	WH-2 DOMESTIC WATER HEATER	20 A	1080	0					20 A	SPARE	14
15	SPARE	20 A			0	0			20 A	SPARE	16
17	SPARE	20 A					0	0	20 A	SPARE	18
		Total Load:	2170 VA		2280 VA		2160 VA				
		Total Amps:	18 A		19 A		18 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	1620 VA	100.00%	1620 VA	**Total Conn. Load:**	6610 VA
Motor	400 VA	106.25%	425 VA	**Total Est. Demand:**	6635 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	18 A
Equipment	1350 VA	100.00%	1350 VA	**Total Est. Demand:**	18 A
Heating	3240 VA	100.00%	3240 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLC1T

Location: TELECOM 1E55T
Supply From: T-CLC1T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
1	TCP-1C01 1E55T	20 A	250	540					20 A	R-TELCOMM 1E55T	2	
3	L-TELCOMM 1E55T	20 A			384	540			20 A	R-TELCOMM 1E55T	4	
5	R-TELCOMM 1E55T	20 A					1250	1250	20 A	R-TELCOMM 1E55T	6	
7	R-TELCOMM 1E55T	20 A	1250	50					20 A	FCU-1C01	8	
9	R-TELCOMM 1E55T	20 A			1250	50					10	
11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 1E55T	12	
13	R-TELECOM 1E55T	20 A	1250	1250					20 A	R-TELECOM 1E55T	14	
15	R-TELECOM 1E55T	20 A			1250	0			20 A	SPARE–BUILDING PANEL	16	
17	SPARE	20 A					0	0	20 A	SPARE	18	
19	SPARE	20 A	0	0					20 A	SPARE	20	
21	SPARE	20 A			0	0			20 A	SPARE	22	
23	SPARE	20 A					0	0	20 A	SPARE	24	
25	SPACE	--	0	0					--	SPACE	26	--
27	SPACE	--			0	0			--	SPACE	28	--
29	SPACE	--					0	0	--	SPACE	30	--
		Total Load:	4590 VA		3474 VA		3750 VA					
		Total Amps:	39 A		29 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	384 VA	125.00%	480 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11814 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11935 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	33 A
Equipment	10250 VA	100.00%	10250 VA	**Total Est. Demand:**	33 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLC5T

Location: TELECOM 5E49T
Supply From: T-CLC5T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
1	TCP-5C01 5E49T	20 A	250	576					20 A	L-TELCOMM 5E49T	2	
3	R-TELCOMM 5E49T	20 A			540	540			20 A	R-TELCOMM 5E49T	4	
5	R-TELCOMM 5E49T	20 A					1250	1250	20 A	R-TELCOMM 5E49T	6	
7	R-TELCOMM 5E49T	20 A	1250	50							8	
9	R-TELCOMM 5E49T	20 A			1250	50			20 A	FCU-5C01	10	
11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 5E49T	12	
13	R-TELECOM 5E49T	20 A	1250	1250					20 A	R-TELECOM 5E49T	14	
15	R-TELECOM 5E49T	20 A			1250	0			20 A	SPARE	16	
17	SPARE-BUILDING PANEL	20 A					0	0	20 A	SPARE	18	
19	SPARE	20 A	0	0					20 A	SPARE	20	
21	SPARE	20 A			0	0			20 A	SPARE	22	
23	SPARE	20 A					0	0	20 A	SPARE	24	
25	SPACE	--	0	0					--	SPACE	26	--
27	SPACE	--			0	0			--	SPACE	28	--
29	SPACE	--					0	0	--	SPACE	30	--
		Total Load:	4626 VA		3630 VA		3750 VA					
		Total Amps:	39 A		30 A		31 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	576 VA	125.00%	720 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	12006 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	12175 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	33 A
Equipment	10250 VA	100.00%	10250 VA	**Total Est. Demand:**	34 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLC2T

Location: TELECOM 2E28T
Supply From: T-CLC2T
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: CRITICAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
1	TCP-2C01 2E28T	20 A	250	540					20 A	R-TELCOMM 2E28T	2	
3	L-TELCOMM 2E28T	20 A			384	540			20 A	R-TELCOMM 2E28T	4	
5	R-TELCOMM 2E28T	20 A					1250	1250	20 A	R-TELCOMM 2E28T	6	
7	R-TELCOMM 2E28T	20 A	1250	50					20 A	FCU-2C01	8	
9	R-TELCOMM 2E28T	20 A			1250	50					10	
11	SPARE-BUILDING PANEL	20 A					0	1250	20 A	R-TELECOM 2E28T	12	
13	R-TELECOM 2E28T	20 A	1250	1250					20 A	R-TELECOM 2E28T	14	
15	R-TELECOM 2E28T	20 A			1250	0			20 A	SPARE-BUILDING PANEL	16	
17	SPARE	20 A					0	0	20 A	SPARE	18	
19	SPARE	20 A	0	0					20 A	SPARE	20	
21	SPARE	20 A			0	0			20 A	SPARE	22	
23	SPARE	20 A					0	0	20 A	SPARE	24	
25	SPACE	--	0	0					--	SPACE	26	--
27	SPACE	--			0	0			--	SPACE	28	--
29	SPACE	--					0	0	--	SPACE	30	--
		Total Load:	4590 VA		3474 VA		3750 VA					
		Total Amps:	39 A		29 A		32 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	384 VA	125.00%	480 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11814 VA
Motor	100 VA	125.00%	125 VA	**Total Est. Demand:**	11935 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	33 A
Equipment	10250 VA	100.00%	10250 VA	**Total Est. Demand:**	33 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CHQP

Location: ELECTRICAL 6E02E
Supply From: BHQP
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: EQUIPMENT

AIC Rating: 14,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
1			2170	3107							2	
3	T-CLQP	35 A			2280	3107			25 A	CU-6C03	4	
5							2160	3107			6	
7			1886	0					--	SPACE - 3 POLE	8	--
9	CU-6C02	20 A			1886	0			--	-	10	--
11							1886	0	--	-	12	--
13			1886	0					--	SPACE - 3 POLE	14	--
15	CU-6C01 CONDENSING UNIT-6C01	20 A			1886	0			--	-	16	--
17							1886	0	--	-	18	--
19	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	20	--
21	-	--			0	0			--	-	22	--
23	-	--					0	0	--	-	24	--
25	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	26	--
27	-	--			0	0			--	-	28	--
29	-	--					0	0	--	-	30	--
		Total Load:	9048 VA		9158 VA		9038 VA					
		Total Amps:	33 A		33 A		33 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	1620 VA	100.00%	1620 VA	**Total Conn. Load:**	27245 VA
Motor	21035 VA	111.08%	23365 VA	**Total Est. Demand:**	29575 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	33 A
Equipment	1350 VA	100.00%	1350 VA	**Total Est. Demand:**	36 A
Heating	3240 VA	100.00%	3240 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CLC1 CLC3T CLC4T
CLQP CLC1T
CLC5T CLC2T CHQP

ISSUED FOR CONSTRUCTION

Revisions: Date

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-12-2014

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Drawing Title: **AREA C EMERGENCY PANEL SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Project Number: SFO# VA-101-10-RP-0081

Building Number

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Drawing Number: **E634**

Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

8/3/2014 3:08:39 PM

CP-SWGR

Location: NORMAL POWER 0CEP01
Supply From: CP-T-UTIL
Mounting: Surface
Enclosure: Type 1
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 42,000
Mains Type: MCB
Mains Rating: 2500 A
MCB Rating: 2500 A

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	ATS-EQ1	3	400 A	400 A	228549 VA	
2	ATS-LS1	3	100 A	100 A	13113 VA	
3	CPHA	3	600 A	600 A	407556 VA	
4	CH-1 CHILLER-1 5B104	3	600 A	600 A	369689 VA	
5	CH-2 CHILLER-2 5B104	3	600 A	600 A	369689 VA	
6	SPACE - 3 POLE	--	--	--	0 VA	--
7	SPACE - 3 POLE	--	--	--	0 VA	--
8	SPACE - 3 POLE	--	--	--	0 VA	--
9	SPACE - 3 POLE	--	--	--	0 VA	--
10	SPACE - 3 POLE	--	--	--	0 VA	--
11	SPACE - 3 POLE	--	--	--	0 VA	--
12						
13						
14						
15						
				Total Conn. Load:	1391462 VA	
				Total Amps:	1674 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	4602 VA	100.00%	4602 VA		
Heating	101540 VA	100.00%	101540 VA	**Total Conn. Load:**	1391462 VA
Lighting	40905 VA	125.00%	51131 VA	**Total Est. Demand:**	1493710 VA
Motor	1233615 VA	107.49%	1326037 VA	**Total Conn.:**	1674 A
Receptacle	10800 VA	96.30%	10400 VA	**Total Est. Demand:**	1797 A

Notes:

CPHA

Location: BOILER ROOM 0CEP04
Supply From: CP-SWGR
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 35,000
Mains Type: MLO
Bus Rating: 600 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SPARE	20 A	0	5497					70 A	T-CPLA/B	2	
	3	SPARE	20 A			0	3380					4	
	5	L-ROOM 5B101, 5B105, 5B103	20 A					2496	5217			6	
	7	CPHB	100 A	7436	13793					80 A	CWP-2 CHILLED WATER PUMP-2 5B104	8	
	9					7436	13793					10	
	11							7436	13793			12	
	13	CWP-3 CHILLED WATER PUMP-3 5B104	80 A	13793	13810					125 A	CT-1 FAN-1 COOLING TOWER	14	
	15					13793	13810					16	
	17							13793	13810			18	
	19	CT-1 FAN-2 COOLING TOWER	125 A	13810	17240					100 A	CP-1 CONDENSER PUMP-1 5B104	20	
	21					13810	17240					22	
	23							13810	17240			24	
	25	CP-2 CONDENSER PUMP-2 5B104	100 A	17240	17240					100 A	CP-3 CONDENSER PUMP-3 5B104	26	
	27					17240	17240					28	
	29							17240	17240			30	
	31	CT-1H1 COOLING TOWER HEATER-1	40 A	8000	8000					20 A	CT-1H2 COOLING TOWER HEATER-2	32	
	33					8000	8000					34	
	35							8000	8000			36	
--	37	SPACE	--	0	0					--	SPACE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
--	43	SPACE	--	0	0					--	SPACE	44	--
--	45	-	--			0	0			--	-	46	--
--	47	-	--					0	0	--	-	48	--
--	49	SPACE	--	0	0					--	SPACE	50	--
--	51	-	--			0	0			--	-	52	--
--	53	-	--					0	0	--	-	54	--
			Total Load:	135860 VA		133743 VA		138076 VA					
			Total Amps:	492 A		483 A		500 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	2496 VA	125.00%	3120 VA		
Receptacle	7740 VA	100.00%	7740 VA	**Total Conn. Load:**	407680 VA
Motor	347404 VA	103.72%	360334 VA	**Total Est. Demand:**	421234 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	490 A
Equipment	600 VA	100.00%	600 VA	**Total Est. Demand:**	507 A
Heating	49440 VA	100.00%	49440 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CPHB

Location: CHILLER ROOM 0CEP05
Supply From: CPHA
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 18,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	CF-1 CONDENSER FILTER-1	35 A	3718	3718					35 A	CF-2 CONDENSER FILTER-2	2	
	3					3718	3718					4	
	5							3718	3718			6	
--	7	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	8	--
--	9	-	--			0	0			--	-	10	--
--	11	-	--					0	0	--	-	12	--
--	13	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	14	--
--	15	-	--			0	0			--	-	16	--
--	17	-	--					0	0	--	-	18	--
--	19	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	20	--
--	21	-	--			0	0			--	-	22	--
--	23	-	--					0	0	--	-	24	--
--	25	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	26	--
--	27	-	--			0	0			--	-	28	--
--	29	-	--					0	0	--	-	30	--
--	31	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	32	--
--	33	-	--			0	0			--	-	34	--
--	35	-	--					0	0	--	-	36	--
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
			Total Load:	7436 VA		7436 VA		7436 VA					
			Total Amps:	27 A		27 A		27 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	22308 VA
Motor	22308 VA	112.50%	25097 VA	**Total Est. Demand:**	25097 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	27 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	30 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CPLA

Location: BOILER ROOM 0CEP04
Supply From: T-CPLA/B
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 150 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	IRRIGATION PUMP...	20 A	100	360					20 A	R-BOILER ROOM 5B103	2	
	3	R-BOILER ROOM 5B103	20 A			720	720			20 A	R-NORMAL POWER 5B101	4	
	5	R-EXTERIOR	20 A					900	720	20 A	R-EXTERIOR	6	
	7	R-BOILER ROOM 5B103	20 A	540	0					20 A	SPARE	8	
	9	R-ROOM 5B102, 5B103	20 A			720	1220					10	
	11	PUMP-FOUNTAIN-2	40 A					2157	1440	100 A	CPLB	12	
	13			2157	2340							14	
	15						0			20 A	SPARE	16	
	17	SPARE	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
	21	SPARE	20 A			0	0			20 A	SPARE	22	
--	23	SPACE	--					0	0	--	SPACE	24	--
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	5497 VA		3380 VA		5217 VA					
			Total Amps:	48 A		28 A		46 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	7740 VA	100.00%	7740 VA	**Total Conn. Load:**	14094 VA
Motor	4314 VA	125.00%	5393 VA	**Total Est. Demand:**	15173 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	39 A
Equipment	600 VA	100.00%	600 VA	**Total Est. Demand:**	42 A
Heating	1440 VA	100.00%	1440 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CPLB

Location: CHILLER ROOM 0CEP05
Supply From: CPLA
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: NORMAL

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	CH-1 120V POWER 5B104	20 A	250	250					20 A	CH-2 120V POWER 5B104	2	
	3	R-CHILLER ROOM 5B104	20 A			540	900			20 A	R-CHILLER ROOM 5B104	4	
	5	R-CHILLER ROOM 5B104	20 A					540	360	20 A	R-CHILLER ROOM 5B104	6	
	7	R-WATER TREATMENT CHILLER...	20 A	720	0					20 A	SPARE	8	
	9	SPARE	20 A			0	0			20 A	SPARE	10	
	11	SPARE	20 A					0	1440	20 A	EWH-1 ELECTRIC WATER...	12	
	13	SPARE	20 A	0	0					20 A	SPARE	14	
	15	SPARE	20 A			0	0			20 A	SPARE	16	
	17	SPARE	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
--	21	SPACE	--			0	0			--	SPACE	22	--
--	23	SPACE	--					0	0	--	SPACE	24	--
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
--	31	SPACE	--	0	0					--	SPACE	32	--
--	33	SPACE	--			0	0			--	SPACE	34	--
--	35	SPACE	--					0	0	--	SPACE	36	--
--	37	SPACE	--	0	0					--	SPACE	38	--
--	39	SPACE	--			0	0			--	SPACE	40	--
--	41	SPACE	--					0	0	--	SPACE	42	--
			Total Load:	1220 VA		1440 VA		2340 VA					
			Total Amps:	10 A		12 A		20 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	3060 VA	100.00%	3060 VA	**Total Conn. Load:**	5000 VA
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	5000 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	14 A
Equipment	500 VA	100.00%	500 VA	**Total Est. Demand:**	14 A
Heating	1440 VA	100.00%	1440 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CP-SWGR CPHA
CPHB CPLA CPLB

ISSUED FOR CONSTRUCTION

Revisions:	Date
1 ASI #008 - CD2 Submission	08/08/14

NORTH CAROLINA PROFESSIONAL SEAL 32417 ENGINEER RYAN J. ARNI 8-1-2014

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Drawing Title: **CENTRAL ENERGY PLANT NORMAL SCHEDULES**
Approved: Project Director

Project Title: VA Charlotte Health Care Center
Project Number: SFO# VA-101-10-RP-0081
Building Number:
Location: Charlotte, NC
Date: 07/21/2014 Checked: RJA Drawn: BCE
Drawing Number: **E635**
Dwg. of

U.S. Department of Veterans Affairs

VA FORM 08-6231

8/3/2014 3:08:41 PM

CP-EM-SWGR

Location: EMERGENCY POWER 0CEP02
Supply From: 1360ekW PRIME RATED GENERATOR
Mounting: Surface
Enclosure: Type 1
Notes: EACH BRANCH OF EMERGENCY POWER SHALL BE IN ITS OWN SECTION.

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: EMERGENCY

AIC Rating: 35,000
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 500 A

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	ATS-EQ1	3	400 A	400 A	228549 VA	
2	ATS-LS1	3	100 A	100 A	13113 VA	
3	SPACE - 3 POLE	--	--	--	0 VA	--
4	SPACE - 3 POLE	--	--	--	0 VA	--
5	SPACE - 3 POLE	--	--	--	0 VA	--
6	SPACE - 3 POLE	--	--	--	0 VA	--
7	SPACE - 3 POLE	--	--	--	0 VA	--
8	SPACE - 3 POLE	--	--	--	0 VA	--
9						
10						
11						
12						
13						
14						
15						

Total Conn. Load: 244404 VA
Total Amps: 294 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	4002 VA	100.00%	4002 VA		
Heating	52100 VA	100.00%	52100 VA	**Total Conn. Load:**	244404 VA
Lighting	38409 VA	125.00%	48011 VA	**Total Est. Demand:**	264351 VA
Motor	146833 VA	107.05%	157178 VA	**Total Conn.:**	294 A
Receptacle	3060 VA	100.00%	3060 VA	**Total Est. Demand:**	318 A

Notes:

CPHQ

Location: BOILER ROOM 0CEP04
Supply From: ATS-EQ1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: EQUIPMENT

AIC Rating: 35,000
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: 0 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
--	1	SPACE	--	0	0					--	SPACE	2	--
--	3	SPACE	--			0	13703					4	
	5							14718	13457	125 A	T-CPLQ	6	
	7	CPH-SITE	100 A	13068	13196							8	
	9					13343	1644			20 A	FCU-1 FAN COIL UNIT-1	10	
	11							4400	0	0 A	- 3P	12	
	13	B-1 BOILER-1 5B103	25 A	4400	0					0 A	-	14	
	15					4400	4400					16	
	17							4400	4400	25 A	B-2 BOILER-2 5B103	18	
	19	B-3 BOILER-3 5B103	25 A	4400	4400							20	
	21					4400	7160					22	
	23							7160	7160	60 A	HWP-1 HEATING WATER PUMP-1 5B103	24	
	25	HWP-2 HEATING WATER PUMP-2 5B103	60 A	7160	7160							26	
	27					7160	7160					28	
	29							13793	7160	60 A	HWP-3 HEATING WATER PUMP-3 5B103	30	
	31	CWP-1 CHILLED WATER PUMP-1 5B104	80 A	13793	7160							32	
	33					13793	0			--	SPACE	34	--
--	35	SPACE	--					0	0	--	SPACE	36	--
--	37	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	38	--
--	39	-	--			0	0			--	-	40	--
--	41	-	--					0	0	--	-	42	--
--	43	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	44	--
--	45	-	--			0	0			--	-	46	--
--	47	-	--					0	0	--	-	48	--
--	49	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	50	--
--	51	-	--			0	0			--	-	52	--
--	53	-	--					0	0	--	-	54	--
			Total Load:	74738 VA		77163 VA		76649 VA					
			Total Amps:	270 A		280 A		278 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	29975 VA	125.00%	37469 VA		
Receptacle	1980 VA	100.00%	1980 VA	**Total Conn. Load:**	228549 VA
Motor	144042 VA	107.18%	154387 VA	**Total Est. Demand:**	246388 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	275 A
Equipment	2452 VA	100.00%	2452 VA	**Total Est. Demand:**	296 A
Heating	50100 VA	100.00%	50100 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CPLQ

Location: BOILER ROOM 0CEP04
Supply From: T-CPLQ
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: EQUIPMENT

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	SITE CAMERAS	20 A	39	65					20 A	SITE CAMERAS	2	
	3	SITE CAMERAS	20 A			91	78			20 A	SITE CAMERAS	4	
	5	SITE CAMERAS	20 A					52	91	20 A	SITE CAMERAS	6	
	7	SITE CAMERAS	20 A	91	250					20 A	RM REFRIGERANT MONITOR...	8	
	9	R-BOILER ROOM 5B103	20 A			360	540			20 A	R-CENTRAL ENERGY PLANT	10	
	11	BAS BUILDING AUTO. SYS. PAN...	20 A					250	500	20 A	TCP TEMP. CONTROL PNL 5B103	12	
	13	UH-1 UNIT HEATER-1 5B104	20 A	828	65					20 A	SITE CAMERAS	14	
	15	UH-2 UNIT HEATER-2 5B104	20 A			828	1127			20 A	EF-1P03	16	
	17	R-BOILER ROOM 5B103	20 A					540	65	20 A	SITE CAMERAS	18	
	19	TCP-0P05 0CEP03	20 A	250	920					20 A	EF-1P01	20	
	21	EF-1P02	20 A			794	920					22	
	23							794	2250			24	
	25	UH-3 UNIT HEATER-3 5B104	20 A	828	2250					20 A	HT HEAT TAPE	26	
	27	SITE CAMERAS	20 A			65	250					28	
	29	TCP-4 TEMP. CONTROL PNL-4...	20 A					250	828	20 A	UH-5 UNIT HEATER-5 5B103	30	
	31	R-CHILLER ROOM 5B104	20 A	540	1000							32	GF CI B...
	33	UH-4 UNIT HEATER-4 5B102	20 A			828	1000			15 A	HOT BOX-1	34	
GF CI B...	35							1000	1000			36	
	37	HOT BOX-2	15 A	1000	1115							38	
	39					1000	1115			20 A	FUTURE GATE-1	40	
	41							1115	1115			42	
	43	FUTURE GATE-2	20 A	1115	1115							44	
	45					1115	1115			20 A	FUTURE GATE-3	46	
	47							1115	1115			48	
	49	FUTURE GATE-4	20 A	1115	1115							50	
	51					1115	1115			20 A	FUTURE ROLL GATE FOR LOADING DOCK	52	
	53	SPARE (2 POLE)	20 A					0	1115			54	
	55		0 A	0	0					20 A	SPARE	56	
	57	SPARE (2 POLE)	20 A			0	0			20 A	SPARE	58	
	59	-	0 A					0	0	20 A	SPARE	60	
	61	SPARE	20 A	0	0					20 A	SPARE	62	
	63	SPARE	20 A			0	0			20 A	SPARE	64	
	65	SPARE	20 A					0	0	20 A	SPARE	66	
	67	SPARE	20 A	0	0					20 A	SPARE	68	
	69	SPARE	20 A			0	0			20 A	SPARE	70	
	71	SPARE	20 A					0	0	20 A	SPARE	72	
	73	SPARE	20 A	0	0					--	SPACE	74	--
	75	SPARE	20 A			0	0			--	SPACE	76	--
	77	SPARE	20 A					0	0	--	SPACE	78	--
--	79	SPACE	--	0	0					--	SPACE	80	--
--	81	-	--			0	0			--	-	82	--
--	83	-	--					0	0	--	-	84	--
			Total Load:	13703 VA		13457 VA		13196 VA					
			Total Amps:	115 A		112 A		110 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	1980 VA	100.00%	1980 VA	**Total Conn. Load:**	40356 VA
Motor	25424 VA	101.81%	25884 VA	**Total Est. Demand:**	40816 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	112 A
Equipment	2452 VA	100.00%	2452 VA	**Total Est. Demand:**	113 A
Heating	10500 VA	100.00%	10500 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CPH-SITE

Location: BOILER ROOM 0CEP04
Supply From: CPHQ
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes: PROVIDE SUB-METERING FOR ENTIRE PANELBOARD.

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: EQUIPMENT

AIC Rating: 30,000
Mains Type: MLO
Bus Rating: 100 A
MCB Rating: 0 A

CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT
1	L-SITE PARKING NORTH	20 A	3025	2750					20 A	L-SITE PARKING NORTH	2
3	L-SITE PARKING WEST	20 A			3300	3025			20 A	L-SITE PARKING EAST	4
5	L-SITE PARKING SOUTH	20 A					3300	3300	20 A	L-SITE PARKING NORTH	6
7			3718	1925					20 A	L-SITE PARKING SOUTH	8
9	P-IRRIGATION	35 A			3718	3025			20 A	L-SITE PARKING SOUTH	10
11							3718	3025	20 A	L-SITE PARKING NORTH	12
13	SPARE	20 A	0	3300					20 A	L-SITE PARKING SOUTH	14
15	SPARE	20 A			0	0			20 A	SPARE	16
17	SPARE	20 A					0	0	20 A	SPARE	18
		Total Load:	14718 VA		13068 VA		13343 VA				
		Total Amps:	53 A		47 A		48 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	29975 VA	125.00%	37469 VA		
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Load:**	41129 VA
Motor	11154 VA	125.00%	13943 VA	**Total Est. Demand:**	51411 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	49 A
Equipment	0 VA	0.00%	0 VA	**Total Est. Demand:**	62 A
Heating	0 VA	0.00%	0 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CPLS

Location: BOILER ROOM 0CEP04
Supply From: T-CPLS
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 10,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
	1	FOP-1	15 A	416	300					20 A	GEN CONTROLLER 5B102	2	
	3					416	1127			20 A	FPFU FUEL POLISHER...	4	
	5	TLCP TANK LEAK CONTROL PN...	20 A					250	540	20 A	R-GENERATOR ROOM 5B102	6	
	7	GEN-BATTERY CHARGER 5B102	20 A	500	540					20 A	R-EMERGENCY POWER 5B105	8	
	9	SPARE	20 A			0	500			20 A	FPCP	10	
	11	SPARE	20 A					0	0	20 A	SPARE	12	
	13	GEN-BLOCK HEATER 5B102	20 A	1000	416					15 A	FOP-2	14	
	15					1000	416					16	
	17	SPARE	20 A					0	0	20 A	SPARE	18	
	19	SPARE	20 A	0	0					20 A	SPARE	20	
--	21	SPACE	--			0	0			--	SPACE	22	--
--	23	SPACE	--					0	0	--	SPACE	24	--
--	25	SPACE	--	0	0					--	SPACE	26	--
--	27	SPACE	--			0	0			--	SPACE	28	--
--	29	SPACE	--					0	0	--	SPACE	30	--
			Total Load:	3172 VA		3459 VA		790 VA					
			Total Amps:	29 A		32 A		7 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	7421 VA
Motor	2791 VA	110.09%	3073 VA	**Total Est. Demand:**	7703 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	21 A
Equipment	1550 VA	100.00%	1550 VA	**Total Est. Demand:**	21 A
Heating	2000 VA	100.00%	2000 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:

CPHS

Location: BOILER ROOM 0CEP04
Supply From: ATS-LS1
Mounting: Surface
Enclosure: Type 1
Legend: L = LIGHTING, R = RECEPTACLE
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4
Branch: LIFE SAFETY

AIC Rating: 30,000
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

	CKT	Circuit Description	Trip	A		B		C		Trip	Circuit Description	CKT	
[1]	1	L-GARDEN BOLLARDS-EAST	20 A	905	2419					20 A	L-AMB. CANOPY-1 0D42-1	2	
	3	SPARE	20 A			0	1036			20 A	L-ROOM 5B101, 5B105, 5B102....	4	
	5	L-SITE LIGHT SOUTH	20 A					3886	0	20 A	SPARE	6	
	7			3172	0					20 A	SPARE	8	
	9	T-CPLS	25 A			3459	0			20 A	SPARE	10	
	11							790	0	20 A	SPARE	12	
	13	SPARE	20 A	0	0					20 A	SPARE	14	
	15	SPARE	20 A			0	0			20 A	SPARE	16	
--	17	SPACE	--					0	0	--	SPACE	18	--
--	19	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	20	--
--	21	-	--			0	0			--	-	22	--
--	23	-	--					0	0	--	-	24	--
--	25	SPACE - 3 POLE	--	0	0					--	SPACE - 3 POLE	26	--
--	27	-	--			0	0			--	-	28	--
--	29	-	--					0	0	--	-	30	--
			Total Load:	6495 VA		4495 VA		4676 VA					
			Total Amps:	24 A		16 A		17 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	8434 VA	125.00%	10542 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	15855 VA
Motor	2791 VA	110.09%	3073 VA	**Total Est. Demand:**	18245 VA
Appliance	0 VA	0.00%	0 VA	**Total Conn.:**	19 A
Equipment	1550 VA	100.00%	1550 VA	**Total Est. Demand:**	22 A
Heating	2000 VA	100.00%	2000 VA		
Elevator	0 VA	0.00%	0 VA		

Notes:
1. PROVIDE SUB-METERING FOR THIS INDIVIDUAL CIRCUIT THAT ADDS TO THE SUB-METERING IN CPH-SITE.

CP-EM-SWGR CPHQ CPLQ
CPH-SITE CPLS CPHS

ISSUED FOR CONSTRUCTION

Revisions:		Date
1	ASI #008 - CD2 Submission	08/08/14

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Drawing Title: **CENTRAL ENERGY PLANT EMERGENCY SCHEDULES**

Approved: Project Director

Project Title: VA Charlotte Health Care Center

Location: Charlotte, NC

Date: 07/21/2014 | Checked: RJA | Drawn: BCE

Project Number: SFO# VA-101-10-RP-0081

Building Number

Drawing Number: **E636**

Dwg. of

U.S. Department of Veterans Affairs

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