Panel Wiring Schedule (3-Phase)

Panelboard LS1E Voltage 120/208 Phase 3 Wire 4 AIC Rating 22,000
Panel Type EXISTING Mains 100A MLO Mains Rating 100 AMP
NEMA Type Enclosure 1 Mounting SURFACE Options --- Note EXISTING

Ckt. No.	Load Description	Brkr Size ▲	Brkr Opts	Phase	Brkr Opts	Brkr Size ▲	Load Description	Ckt. No.
1	EXIT LIGHTING		E	A	E		MED GAS ALARM	2
3	LTS-CORR		E	B	E		EM DOOR OP.	4
5	LTS-CORR&DNN		E	C	E			6
7	REC IF-101-101A		E	A	N		EM LTS ER	8
9	SPARE		N	B	E		LTS 101	10
11	PRINTER OP DESK		E	C	E		SPACE	12

Notes
▲ All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.

Breaker Options:
LO – Handle lock-off device
ST – Shunt Trip Type
GFCI – Ground Fault Circuit Interrupter
HACR – Heating, A/C & Refrigeration
SF – Subfeed
E – EXISTING
N – NEW

Panel Wiring Schedule (3-Phase)

Panelboard NP Voltage 120/208 Phase 3 Wire 4 AIC Rating 22,000
Panel Type NQ Mains 125A MCB Mains Rating 225 AMP
NEMA Type Enclosure 1 Mounting SURFACE Options --- Note –

Ckt. No.	Load Description	Brkr Size ▲	Brkr Opts	N.E.C. Watts #A	N.E.C. Watts #B	N.E.C. Watts #C	Phase	N.E.C. Watts #A	N.E.C. Watts #B	N.E.C. Watts #C	Brkr Opts	Brkr Size ▲	Load Description	Ckt. No.
1	PBPU – 109			0.500			A	0.500					PBPU – 108	2
3	PBPU – 107				0.500		B		0.500				PBPU – 106	4
5	PBPU – 105					0.500	C			0.500			PBPU – 117	6
7	PBPU – 118			0.500			A	0.500					PBPU – 127	8
9	TREATMENT REC				1.800		B		1.500				TRIAGE REC	10
11	RECEPTACLES					1.260	C			0.720			TREATMENT REC	12
13	PLUG MOLD			1.800			A	1.800					PLUG MOLD	14
15	REF. BRK RM				0.750		B		0.500				U.C. REF. BRK RM	16
17	MICROWAVE					1.000	C			0.500			X-RAY ILLUM	18
19	RECEPTACLES			1.360			A	0.200					BLANKET WARMER	20
21	NRS STAT REC				1.800		B		1.500				NRS ST. COMP	22
23	NRS ST. COMP					1.500	C			0.500			PRINTER	24
25	ER LTS			1.250			A	1.020					ER LTS	26
27	ER LTS				1.387		B		1.176				POWER DOOR	28
29	POWER DOOR					1.176	C			1.176			POWER DOOR	30
31	PNEUM TUBES			0.360			A	1.176					ACCESS CNT. MED	32
33	– ↑	20/2			–		B		0.030				LC GLASS – 127	34
35	– ↑					–	C			0.900			RECEPTACLES	36
37	–			–			A	0.500					WAND. DOOR SYS.	38
39	–				–		B		–				–	40
41	– ↓					–	C			–	LO		–	42

Notes
▲ All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.

N.E.C. Connected Totals: #A 11.466 kw
#B 11.443 kw
#C 9.732 kw
Total 32.641 kw
(All Phases to be balanced to within 10% using Actual Load Totals.)

Breaker Options:
LO – Handle lock-off device
ST – Shunt Trip Type
GFCI – Ground Fault Circuit Interrupter
HACR – Heating, A/C & Refrigeration
SF – Subfeed

$$\frac{\text{NEC CONNECTED KVA} * 1000}{\text{VOLTAGE} * \sqrt{3}} * 1.25 = \text{MINIMUM FEEDER AMPERAGE}$$

$$\frac{32.641 * 1000}{208 * \sqrt{3}} * 1.25 = 113.4 \text{ AMP MIN. SERVICE, USE 125 AMP SERVICE}$$

Panel Wiring Schedule (3-Phase)

Panelboard CP Voltage 120/208 Phase 3 Wire 4 AIC Rating 22,000
Panel Type NF Mains 500A MCB Mains Rating 600 AMP
NEMA Type Enclosure 1 Mounting SURFACE Options --- Note –

Ckt. No.	Load Description	Brkr Size ▲	Brkr Opts	N.E.C. Watts #A	N.E.C. Watts #B	N.E.C. Watts #C	Phase	N.E.C. Watts #A	N.E.C. Watts #B	N.E.C. Watts #C	Brkr Opts	Brkr Size ▲	Load Description	Ckt. No.
1	PBPU-109			1.230			A	1.230					PBPU-108	2
3	PBPU-109				1.230		B		1.230				PBPU-108	4
5	PBPU-107					1.230	C			1.230			PBPU-106	6
7	PBPU-107			1.230			A	1.230					PBPU-106	8
9	PBPU-105				1.230		B		1.230				PBPU-117	10
11	PBPU-105					1.230	C			1.230			PBPU-117	12
13	PBPU-118			1.230			A	1.230					PBPU-127	14
15	PBPU-118				1.230		B		1.230				PBPU-127	16
17	PAT MONITORS					0.960	C			0.102			EKG MACHINE	18
19	CRASH CART			0.504			A	0.750					REFRIG. MEDS	20
21	ICE MACHINE				1.560		B		1.440				PIXIS	22
23	NURS ST. REC					1.800	C			0.250			MED GAS ALARM	24
25	2-WAY RADIO			0.250			A	1.800					NURSE CALL	26
27	PAT. MONITORS				0.840		B		1.700				VAV CONTROLS	28
29	↑					25.000	C			0.696			EF-2	30
31	ELECTRIC HEAT	300/3	SF	25.000			A	1.000					MOTORIZED DAMPERS	32
33	↑				25.000		B		0.180				RECEPTACLES	34
35	↑					2.099	C			0.250			ELASP TIM IND.	36
37	EF-1 ↑	25/3		2.099			A	–					SPARE	38
39	↑				2.099		B		–				SPARE	40
41	– ↓					–	C			–	LO		SPARE	42

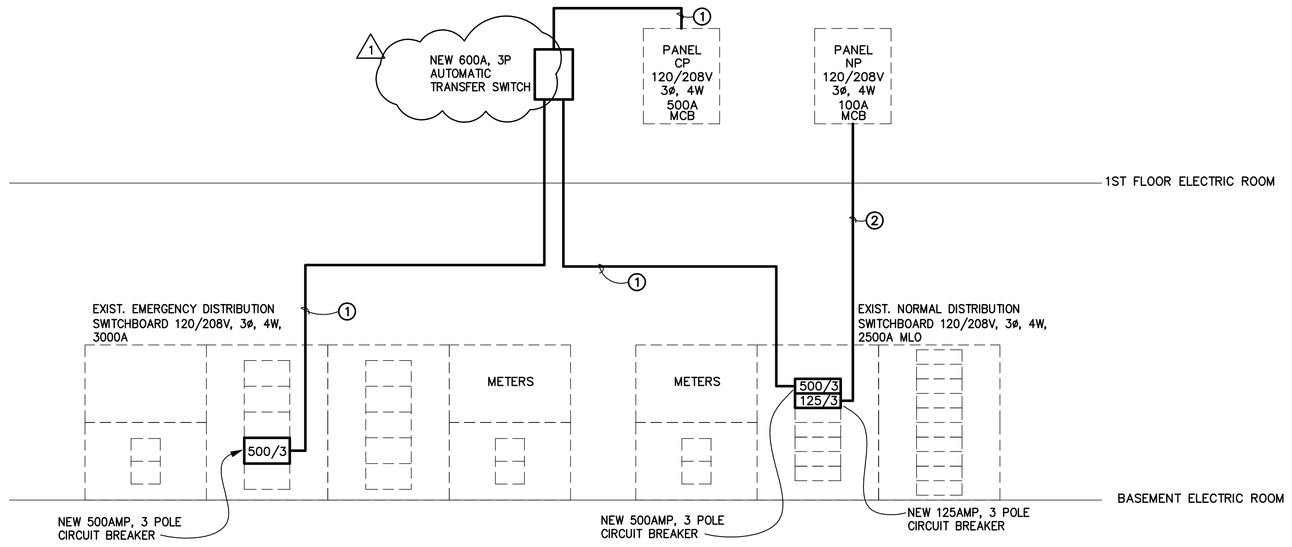
Notes
▲ All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.

N.E.C. Connected Totals: #A 37.553 kw
#B 40.199 kw
#C 36.077 kw
Total 113.829 kw
(All Phases to be balanced to within 10% using Actual Load Totals.)

Breaker Options:
LO – Handle lock-off device
ST – Shunt Trip Type
GFCI – Ground Fault Circuit Interrupter
HACR – Heating, A/C & Refrigeration
SF – Subfeed

$$\frac{\text{NEC CONNECTED KVA} * 1000}{\text{VOLTAGE} * \sqrt{3}} * 1.25 = \text{MINIMUM FEEDER AMPERAGE}$$

$$\frac{113.579 * 1000}{208 * \sqrt{3}} * 1.25 = 395.4 \text{ AMP MIN. SERVICE, USE 500 AMP SERVICE}$$



POWER RISER
N.T.S.

FEEDER SCHEDULE

DESIGNATION	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
1	(2 PARALLEL SETS) 4–#4/0	(2 PARALLEL SETS) #2	(2) 2 1/2"
2	4–#1/0	#6	2"

EXISTING CONDITION NOTES

THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED TO OUR OFFICE AT THE TIME OF DESIGN. THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION, SERVICE LAYOUTS, SECONDARY FEEDER LENGTH, TELEPHONE SERVICE LOCATION, ETC... AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BID. FAILURE TO DO SO MAY CONSTITUTE THAT THE CONTRACTOR PROVIDE ANY AND ALL ADDITIONAL EQUIPMENT, LABOR, ETC... TO MEET THE INTENDED DESIGN PARAMETERS.

VERIFY ALL CONDITIONS IN FIELD

GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS

1 DEMOLITION NOTES:
FOR ALL LIGHTS, RECEPTACLES, DATA AND PHONE OUTLETS THAT ARE NOT TO BE REUSED REMOVE ALL CONDUIT AN WIRE BACK TO SOURCE. SEE ARCHITECTURAL DEMOLITION PLAN FOR AFFECTED AREAS AND ADDITIONAL NOTES.

REVISION 1	5/21/09
Revisions	Date

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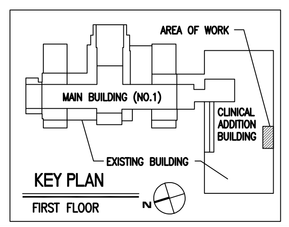
FULLY SPRINKLERED

CDL Project Number: 07060



KEY PLAN
FIRST FLOOR

Drawing Title: PANEL SCHEDULES
Approved: Project Director
Project Title: EMERGENCY ROOM RENOVATION
Location: VAMC - CLARKSBURG, WV
Date: 6/20/2008
Checked: DR
Drawn: AW
Project Number: 540-07-115
Building Number: ONE
Drawing Number: E3
Dwg. of --

Office of Facilities Management
Department of Veterans Affairs

DWG TAG — M71-3-3CE3 DATE — 4/28/08 CAD OPER — AW