E2FA

BUS NUMBER: 35 | AMPERE RATING: 150 | VOLTAGE (L-L): 208 | PHASE: 3
SERVED FROM: TE2FA | MAIN TYPE: MAIN BREAKER | VOLTAGE (L-N): 120 | WIRE: 4
MOUNTING: SURFACE | LUG OPTIONS: | MIN. KAIC: 22
REMARKS: EXISTING

CKT NO.	CIRCUIT BRKR TRIP	P	LOAD DESCRIPTION	COIL	LOAD KVA	BRANCH CIRCUIT SIZE	PHASE/NEUT NO.	PHASE/NEUT SIZE	GND SIZE	MIN CND SIZE	BRANCH CIRCUIT SIZE	PHASE/NEUT NO.	PHASE/NEUT SIZE	GND SIZE	MIN CND SIZE	LOAD KVA	COIL	LOAD DESCRIPTION	CIRCUIT BRKR TRIP	P	CKT NO.
1	20	1	LIGHTS	L	0.71	1	2	12	12	3/4	1	2	12	12	3/4	0.72	R	RECEPTACLES	20	1	2
3	20	1	LIGHTS	L	0.96	1	2	12	12	3/4	1	2	12	12	3/4	0.45	N	FLUSH VALVE AND SINK	20	1	4
5	20	1	LIGHTS	L	0.39	1	2	12	12	3/4	1	2	12	12	3/4	0.54	R	RECEPTACLES	20	1	6
7	20	1	RECEPTACLES	R	0.36	1	2	12	12	3/4	1	2	12	12	3/4	0.50	N	AHU205 CONTROLS	20	1	8
9	20	1	REFRIGERATOR	R	1.00	1	2	12	12	3/4	1	2	12	12	3/4	0.54	R	RECEPTACLES	20	1	10
11	20	1	RECEPTACLES	R	0.90	1	2	12	12	3/4	1	2	10	10	3/4	2.34	N	FLUSH VALVE AND SINK	25	1	12
13	20	1	RECEPTACLES	R	0.72	1	2	12	12	3/4	1	2	12	12	3/4	0.72	R	RECEPTACLES	20	1	14
15	20	1	FIRE DAMPER	D	0.20	1	2	12	12	3/4	1	2	12	12	3/4	0.70	D	VAV CONTROLS	20	1	16
17	20	1	RECEPTACLES	R	0.54	1	2	12	12	3/4	1	2	12	12	3/4	0.72	R	RECEPTACLES	20	1	18
19	20	1	RECEPTACLES	R	0.72	1	2	12	12	3/4	1	2	12	12	3/4	0.90	N	FSD'S	20	1	20
21	20	1	RECEPTACLES	R	1.26	1	2	12	12	3/4	1	2	12	12	3/4	1.08	R	RECEPTACLES	20	1	22
23	20	1	RECEPTACLES	R	0.72	1	2	12	12	3/4	1	2	12	12	3/4	0.72	R	RECEPTACLES	20	1	24
25	20	1	RECEPTACLES	R	0.72	1	2	12	12	3/4	1	2	12	12	3/4	0.54	R	RECEPTACLES	20	1	26
27	20	1	REFRIGERATOR	R	1.00	1	2	12	12	3/4	1	2	12	12	3/4	0.54	R	RECEPTACLES	20	1	28
29	25	1	PYXIS	R	2.00	1	2	10	10	3/4	1	2	12	12	3/4	1.08	R	RECEPTACLES	20	1	30
31	20	1	VAV CONTROLS	D	0.70	1	2	12	12	3/4	1	2	12	12	3/4	1.00	R	MOTOR OPERATED DOOR	20	1	32
33	20	1	RECEPTACLES	R	0.54	1	2	12	12	3/4	1	2	12	12	3/4	0.90	R	RECEPTACLES	20	1	34
35	20	1	VAV CONTROLS	D	0.70	1	2	12	12	3/4	1	2	12	12	3/4	0.72	R	RECEPTACLES	20	1	36
37	20	1	REFRIGERATOR	R	1.00	1	2	12	12	3/4	1	2	12	12	3/4	0.18	R	RECEPTACLES	20	1	38
39	20	1	ICE	R	1.00	1	2	12	12	3/4	1	3	8	10	3/4	2.50	N	DRYER	35	2	40
41	20	1	WASHING MACHINE	R	1.20	1	2	12	12	3/4	1	2	12	12	3/4	0.90	N	FSD'S	20	1	42

NEC ART. 220 LOAD CATEGORY	TOTAL CONNECTED LOAD (KVA)**	X	NEC ART. 220 FEEDER SIZING FACTOR	=	NEC ART. 220 FEEDER SIZING LOAD (KVA)
A - HOSPITAL LIGHTING	0.00		0.00		0.00
B - HOTEL/MOTEL LIGHTING	0.00		0.00		0.00
C - SPACE COOLING*	0.00		0.00		0.00
D - OTHER HVAC LOADS	2.30		1.00		2.30
H - SPACE HEATING*	0.00		0.00		0.00
K - KITCHEN APPLIANCES	0.00		0.00		0.00
L - GENERAL LIGHTING	2.06		1.25		2.57
M - MISC. CONTINUOUS	0.00		0.00		0.00
N - MISC. NONCONTINUOUS	7.59		1.00		7.59
R - RECEPTACLES	23.68		0.71		16.84
W - WAREHOUSE LIGHTING	0.00		0.00		0.00
LARGEST MOTOR**	0.00		0.25		0.00
	35.63				29.30

PHASE BALANCE (% OF TOTAL LOAD): A: 80.0 % B: 106.8 % C: 113.5 %

BALANCED NEC ART. 220 FEEDER SIZING LOAD (AMPS): 81.3 A.
X LARGEST UNBALANCED PHASE %: x 1.13
+ RESERVED FUTURE CAPACITY: + 15.0 A.
TOTAL UNBALANCED NEC ART. 220 FEEDER SIZING LOAD: 107.3 A.

MIN. NEC ART. 220 REQUIRED OVERCURRENT PROTECTION: 110 A. MIN. NEC ART. 220 FEEDER SIZE:

* NON-COINCIDENTAL LOADS. LARGEST LOAD INCLUDED IN TOTAL. ** LARGEST MOTOR LOAD INCLUDED IN CATEGORIZED LOADS. *** SUM OF ALL LOADS FED FROM THIS PANEL.

NOTE: PROVIDE FEED-THRU LUGS IN PANEL TO FEED NEXT PANEL "E2FA1"

E2FA1

BUS NUMBER: 36 | AMPERE RATING: 150 | VOLTAGE (L-L): 208 | PHASE: 3
SERVED FROM: E2FA | MAIN TYPE: MAIN LUGS ONLY | VOLTAGE (L-N): 120 | WIRE: 4
MOUNTING: SURFACE | LUG OPTIONS: | MIN. KAIC:
REMARKS:

CKT NO.	CIRCUIT BRKR TRIP	P	LOAD DESCRIPTION	COIL	LOAD KVA	BRANCH CIRCUIT SIZE	PHASE/NEUT NO.	PHASE/NEUT SIZE	GND SIZE	MIN CND SIZE	BRANCH CIRCUIT SIZE	PHASE/NEUT NO.	PHASE/NEUT SIZE	GND SIZE	MIN CND SIZE	LOAD KVA	COIL	LOAD DESCRIPTION	CIRCUIT BRKR TRIP	P	CKT NO.
1	20	1	RECEPT.-RM. 2F211	R	0.54	1	2	12	12	3/4	1	2	12	12	3/4	0.72	R	RECEPT.-RM. 2F262,77	20	1	2
3	20	1	RECEPT.-RM. 2F210	R	0.54	1	2	12	12	3/4	1	2	12	12	3/4	0.72	R	RECEPT.-RM. 2F273,74	20	1	4
5	20	1	RECEPT.-RM. 2F207	R	0.54	1	2	12	12	3/4	1	2	12	12	3/4	0.72	R	RECEPT.-RM. 2F269,70	20	1	6
7	20	1	RECEPT.-RM. 2F228	R	0.54	1	2	12	12	3/4	1	2	12	12	3/4	0.72	R	RECEPT.-RM. 2F266	20	1	8
9	20	1	RECEPT.-RM. 2F229	R	0.54	1	2	12	12	3/4	1	2	12	12	3/4	0.72	R	RECEPT.-RM. 2F241,42	20	1	10
11	20	1	RECEPT.-RM. 2F232	R	0.54	1	2	12	12	3/4	1	2	12	12	3/4	0.72	R	RECEPT.-RM. 2F238	20	1	12
13	20	1	LTG.-OFFICES	L	1.00	1	2	12	12	3/4								SPARE	20	1	14
15	20	1	LTG.-GROUP AREAS	L	1.17	1	2	12	12	3/4								SPARE	20	1	16
17	20	1	LTG.-OFFICES	L	1.10	1	2	12	12	3/4								SPARE	20	1	18
19	20	1	SPARE															SPARE	20	1	20
21	20	1	SPARE															SPARE	20	1	22
23	20	1	SPARE															SPARE	20	1	24
25	20	1	SPARE															SPARE	20	1	26
27	20	1	SPARE															SPARE	20	1	28
29	20	1	SPARE															SPARE	20	1	30
31	20	1	SPARE															SPARE	20	1	32
33	20	1	SPARE															SPARE	20	1	34
35	20	1	SPARE															SPARE	20	1	36
37		1	SPACE ONLY															SPACE ONLY		1	38
39		1	SPACE ONLY															SPACE ONLY		1	40
41		1	SPACE ONLY															SPACE ONLY		1	42

NEC ART. 220 LOAD CATEGORY	TOTAL CONNECTED LOAD (KVA)**	X	NEC ART. 220 FEEDER SIZING FACTOR	=	NEC ART. 220 FEEDER SIZING LOAD (KVA)
A - HOSPITAL LIGHTING	0.00		0.00		0.00
B - HOTEL/MOTEL LIGHTING	0.00		0.00		0.00
C - SPACE COOLING*	0.00		0.00		0.00
D - OTHER HVAC LOADS	0.00		0.00		0.00
H - SPACE HEATING*	0.00		0.00		0.00
K - KITCHEN APPLIANCES	0.00		0.00		0.00
L - GENERAL LIGHTING	3.27		1.25		4.08
M - MISC. CONTINUOUS	0.00		0.00		0.00
N - MISC. NONCONTINUOUS	0.00		0.00		0.00
R - RECEPTACLES	7.16		1.00		7.16
W - WAREHOUSE LIGHTING	0.00		0.00		0.00
LARGEST MOTOR**	0.00		0.25		0.00
	10.43				11.24

PHASE BALANCE (% OF TOTAL LOAD): A: 101.3 % B: 106.2 % C: 92.7 %

BALANCED NEC ART. 220 FEEDER SIZING LOAD (AMPS): 31.2 A.
X LARGEST UNBALANCED PHASE %: x 1.06
TOTAL: 33.1 A.
+ RESERVED FUTURE CAPACITY: + 15.0 A.
TOTAL UNBALANCED NEC ART. 220 FEEDER SIZING LOAD: 48.1 A.

MIN. NEC ART. 220 REQUIRED OVERCURRENT PROTECTION: 50 A. MIN. NEC ART. 220 FEEDER SIZE:

* NON-COINCIDENTAL LOADS. LARGEST LOAD INCLUDED IN TOTAL. ** LARGEST MOTOR LOAD INCLUDED IN CATEGORIZED LOADS. *** SUM OF ALL LOADS FED FROM THIS PANEL.

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REVISION NO.	REVISION DESCRIPTION	By	Date

Revisions

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Augusta, Ga. 30904

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Recommended Approvals:	
1. MEDICAL CENTER DIRECTOR	6. OPERATIONS SERVICE LINE MANAGER
2. ASSISTANT DIRECTOR	7. INFECTION CONTROL MANAGER
3. CHIEF OF STAFF	8. SAFETY MANAGER
4. ASSOC. DIRECTOR	9. GENERAL ENGINEER
5. SERVICE LINE MGRS.	10. COR

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Project Title: RENOVATE MENTAL HEALTH UNITS
Drawn | Building Number | AutoCAD File Name: WAG
Checked | Reviewed | Const. Contract No.:

Date: February 10, 2017
Project Number: 509-12-104
DRAWING No.: E702

Veterans Affairs