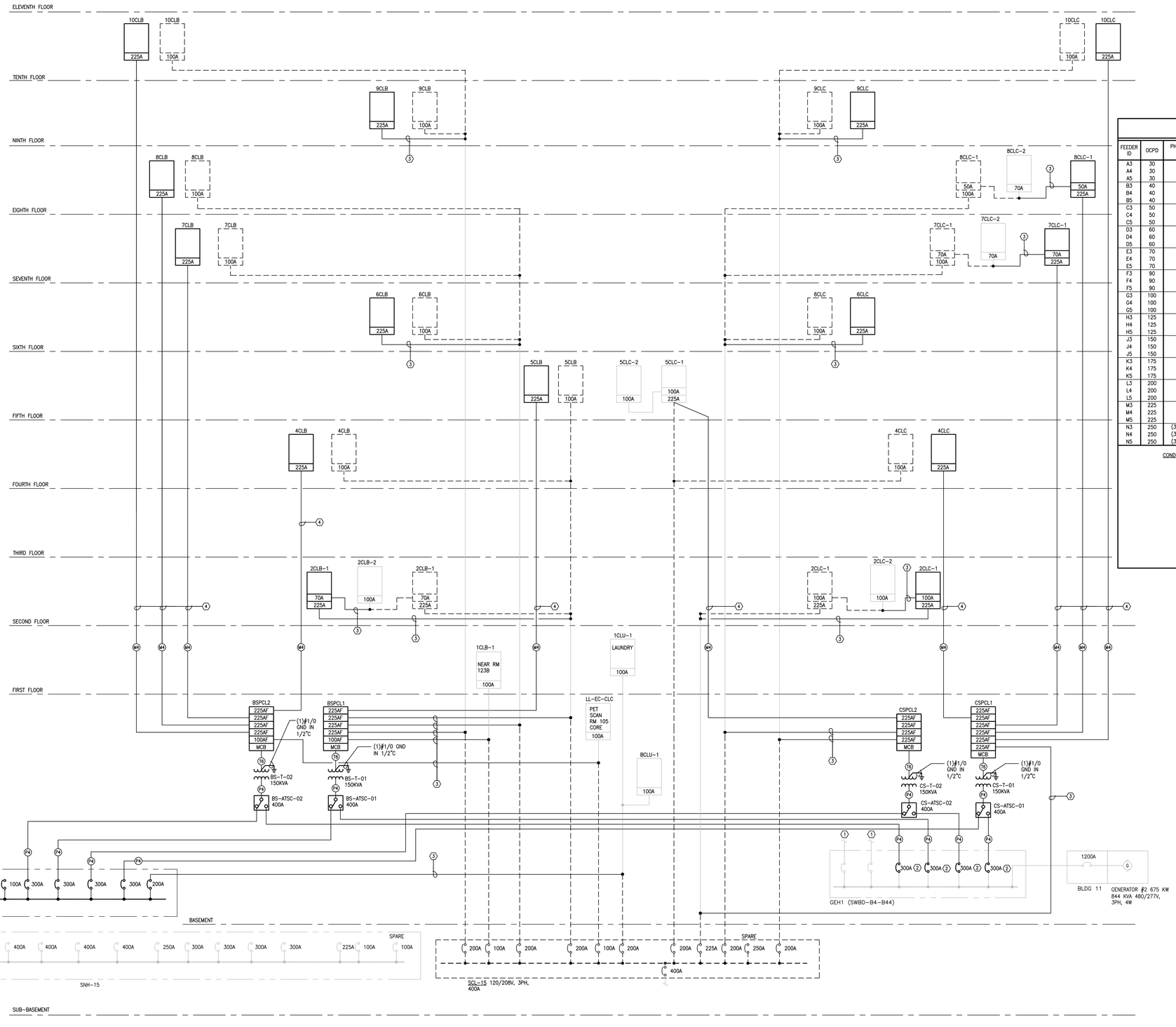

1 POWER DISTRIBUTION RISER

SCALE: NONE

2 POWER AND SYSTEMS NOTES

1. EXISTING FEEDERS.
2. UTILIZE EXISTING 300A SPACES, MATCH EXISTING PANELBOARD TYPE, AIC RATING, ECT.
3. EXTENDED CONDUCTORS TO MATCH EXISTING CONDUCTORS BEING TIED INTO.
4. PROVIDE INTEGRAL WEIGHT PROTECTION FITTINGS ON FEEDERS.
5. UTILIZE EXISTING SPACE, MATCH EXISTING PANELBOARD TYPE, AIC RATING, ECT.

3 FEEDER SCHEDULE – COPPER CONDUCTORS

FEEDER ID	OCPD	PHASE WIRES (AWG)	NEUTRAL WIRES (AWG)	EQUIP. GND (AWG)	MIN. CONDUIT SIZE
A3	30	(3)10	--	10	3/4
A4	30	(3)10	(1)10	10	3/4
A5	30	(3)10	(1)6	10	3/4
B3	40	(3)8	--	10	3/4
B4	40	(3)8	(1)8	10	3/4
B5	40	(3)8	(1)2	10	1
C3	50	(3)6	--	10	1
C4	50	(3)6	(1)6	10	1-1/4
C5	50	(3)6	(1)2	10	1-1/4
D3	60	(3)4	--	10	1-1/4
D4	60	(3)4	(1)4	10	1-1/4
D5	60	(3)4	(1)1/0	10	1-1/4
E3	70	(3)4	--	8	1-1/4
E4	70	(3)4	(1)4	8	1-1/4
E5	70	(3)4	(1)1/0	8	1-1/4
F3	90	(3)2	--	8	1-1/4
F4	90	(3)2	(1)2	8	1-1/2
F5	90	(3)2	(1)3/0	8	1-1/2
G3	100	(3)1	--	8	1-1/2
G4	100	(3)1	(1)1	8	2
G5	100	(3)1	(1)3/0	8	2
H3	125	(3)1	--	6	1-1/2
H4	125	(3)1	(1)1	6	2
H5	125	(3)1	(1)250KCMIL	6	2
J3	150	(3)1/0	--	6	1-1/2
J4	150	(3)1/0	(1)1/0	6	2
J5	150	(3)1/0	(2)1/0	6	2
K3	175	(3)2/0	--	6	2
K4	175	(3)2/0	(1)2/0	6	2
K5	175	(3)2/0	(2)2/0	6	2
L3	200	(3)3/0	--	6	2
L4	200	(3)3/0	(1)3/0	6	2
L5	200	(3)3/0	(2)3/0	6	2-1/2
M3	225	(3)4/0	--	4	2
M4	225	(3)4/0	(1)4/0	4	2-1/2
M5	225	(3)4/0	(2)4/0	4	2-1/2
N3	250	(3)250KCMIL	--	4	2-1/2
N4	250	(3)250KCMIL	(1)250KCMIL	4	2-1/2
N5	250	(3)250KCMIL	(2)250KCMIL	4	2-1/2

FEEDER ID	OCPD	PHASE WIRES (AWG)	NEUTRAL WIRES (AWG)	MIN. EQUIP. GND (AWG)	MIN. CONDUIT SIZE
P3	300	(3)350KCMIL	--	4	2-1/2
P4	300	(3)350KCMIL	(1)350KCMIL	4	3
P5	300	(3)350KCMIL	(2)350KCMIL	4	3
Q3	350	(3)500KCMIL	--	2	3
Q4	350	(3)500KCMIL	(1)500KCMIL	2	3
Q5	350	(3)500KCMIL	(2)500KCMIL	2	3-1/2
R3	400	(6)3/0	--	(2)2	(2)2
R4	400	(6)3/0	(2)3/0	(2)2	(2)2
R5	400	(6)3/0	(4)3/0	(2)2	(2)2-1/2
S3	500	(6)250KCMIL	--	(2)2	(2)2-1/2
S4	500	(6)250KCMIL	(2)250KCMIL	(2)2	(2)2-1/2
S5	500	(6)250KCMIL	(4)250KCMIL	(2)2	(2)2-1/2
T3	600	(6)350KCMIL	--	(2)1	(2)2-1/2
T4	600	(6)350KCMIL	(2)350KCMIL	(2)1	(2)3
T5	600	(6)350KCMIL	(4)350KCMIL	(2)1	(2)3
U3	700	(6)500KCMIL	--	(2)1/0	(2)3
U4	700	(6)500KCMIL	(2)500KCMIL	(2)1/0	(2)3
U5	700	(6)500KCMIL	(4)500KCMIL	(2)1/0	(2)3-1/2
V3	800	(9)300KCMIL	--	(3)1/0	(3)2-1/2
V4	800	(9)300KCMIL	(3)300KCMIL	(3)1/0	(3)3
V5	800	(9)300KCMIL	(6)300KCMIL	(3)1/0	(3)3
W3	1000	(9)400KCMIL	--	(3)2/0	(3)2-1/2
W4	1000	(9)400KCMIL	(3)400KCMIL	(3)2/0	(3)3
W5	1000	(9)400KCMIL	(6)400KCMIL	(3)2/0	(3)3
X3	1200	(12)350KCMIL	--	(4)3/0	(4)2-1/2
X4	1200	(12)350KCMIL	(4)350KCMIL	(4)3/0	(4)3
X5	1200	(12)350KCMIL	(8)350KCMIL	(4)3/0	(4)3
Y3	1500	(12)500KCMIL	--	(4)4/0	(4)3
Y4	1500	(12)500KCMIL	(4)500KCMIL	(4)4/0	(4)3
Y5	1500	(12)500KCMIL	(8)500KCMIL	(4)4/0	(4)3-1/2
Z3	1600	(15)400KCMIL	--	(5)4/0	(5)2-1/2
Z4	1600	(15)400KCMIL	(5)400KCMIL	(5)4/0	(5)3
Z5	1600	(15)400KCMIL	(10)400KCMIL	(5)4/0	(5)3
AA3	2000	(18)400KCMIL	--	(6)250KCMIL	(6)2-1/2
AA4	2000	(18)400KCMIL	(6)400KCMIL	(6)250KCMIL	(6)3
AA5	2000	(18)400KCMIL	(12)400KCMIL	(6)250KCMIL	(6)3
T6	600	(6)350KCMIL	(2)350KCMIL	(2)1/0	(2)3

CONDUIT METRIC CONVERION:

INCHES	MM
1/2	16
3/4	21
1	27
1-1/4	35
1-1/2	41
2	53
2-1/2	63
3	78
4	103
5	129
6	155

CONDUCTOR METRIC CONVERSION:

AWG	SQMM
10	5.26
8	8.38
6	13.3
4	21
2	34
1	42
1/0	54
2/0	67
3/0	85
4/0	107
250	127
300	152
350	178
400	203
500	254

Revisions	Date
1 CONSTRUCTION DOCUMENTS	09/14/12

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Architect

stamp

CARDIOLOGY MANAGER	DATE	ENGINEERING MANAGER	DATE
INFECTION CONTROL	DATE	CARELINE MANAGER	DATE
SAFETY OFFICER	DATE	CHIEF OF STAFF	DATE

Drawing Title: POWER DISTRIBUTION DIAGRAM

MEDICAL CENTER DIRECTOR DATE

ASSOCIATE MEDICAL CENTER DIRECTOR DATE

Project Title: CRITICAL ELECTRICAL SYSTEM EXPANSION – WINGS B AND C

Building Number: BLDG. #1

Checked: TF

Drawn: MO

Location: V.A.M.C. BUFFALO, NEW YORK

Date: September 14, 2012

Station No.: 528-P-0168

12-104-E701

Office of Facilities

Department of Veterans Affairs