

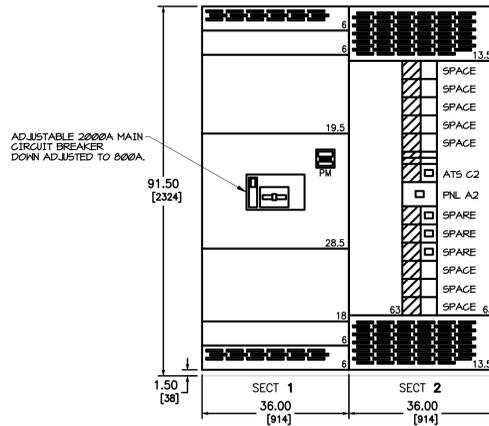
SWITCHBOARD SCHEDULE

SWITCHBOARD AG-SA

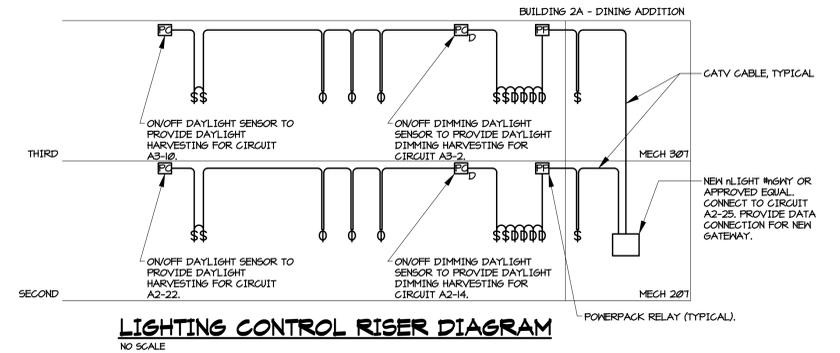
VOLTS: 200Y/120
BUS AMPS: 2000 PHASE: 3 WIRE: 4
SCG AMP RATING: 65/200

SECT DESG	UNIT NO	DESCRIPTION	CKT BRKR		CONDUCTORS (CU)			CONDUIT SIZE	REMARKS
			POLE	TRIP	PHASE	NEUTRAL	GROUND		
1	M1	MAIN BREAKER	3	800	2000 AMP BUS				GROUND FAULT
2	1	PANEL A2	3	400	2000 AMP BUS				
2	2	PANEL C2	3	100	-	-	-	-	
2	3	SPARE	3	100	-	-	-	-	
2	4	SPARE	3	100	-	-	-	-	
2	5	SPARE	3	100	-	-	-	-	
2	6	SPACE ONLY (100 AMP FRAME)	3	-	-	-	-	-	
2	7	SPACE ONLY (100 AMP FRAME)	3	-	-	-	-	-	
2	8	SPACE ONLY (100 AMP FRAME)	3	-	-	-	-	-	
4	5	SPACE ONLY (100 AMP FRAME)	3	-	-	-	-	-	
4	6	SPACE ONLY (100 AMP FRAME)	3	-	-	-	-	-	
4	7	SPACE ONLY (100 AMP FRAME)	3	-	-	-	-	-	
4	8	SPACE ONLY (100 AMP FRAME)	3	-	-	-	-	-	
4	9	SPACE ONLY (100 AMP FRAME)	3	-	-	-	-	-	

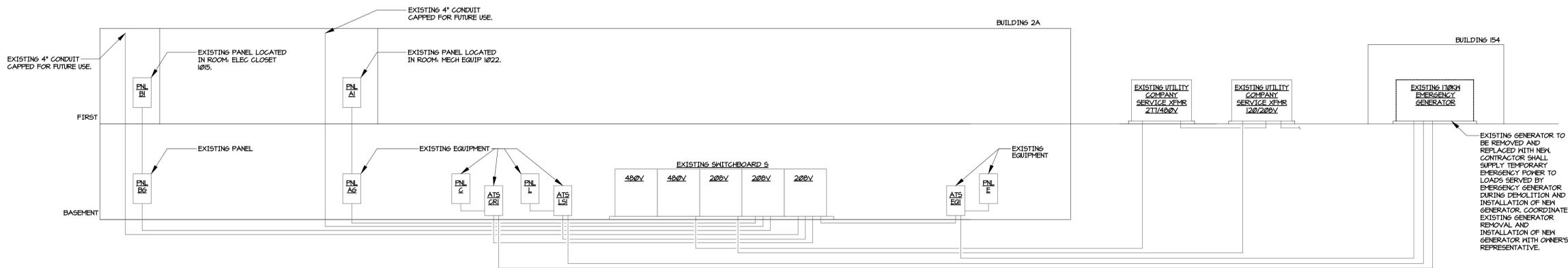
PHASE 'A' - 34.4 KVA
PHASE 'B' - 35.1 KVA
PHASE 'C' - 34.8 KVA
TOTAL SWITCHBOARD LOAD CONNECTED - 104.3 KVA (289.51 AMPS)
TOTAL SWITCHBOARD LOAD DEMAND - 42 KVA (259.31 AMPS)



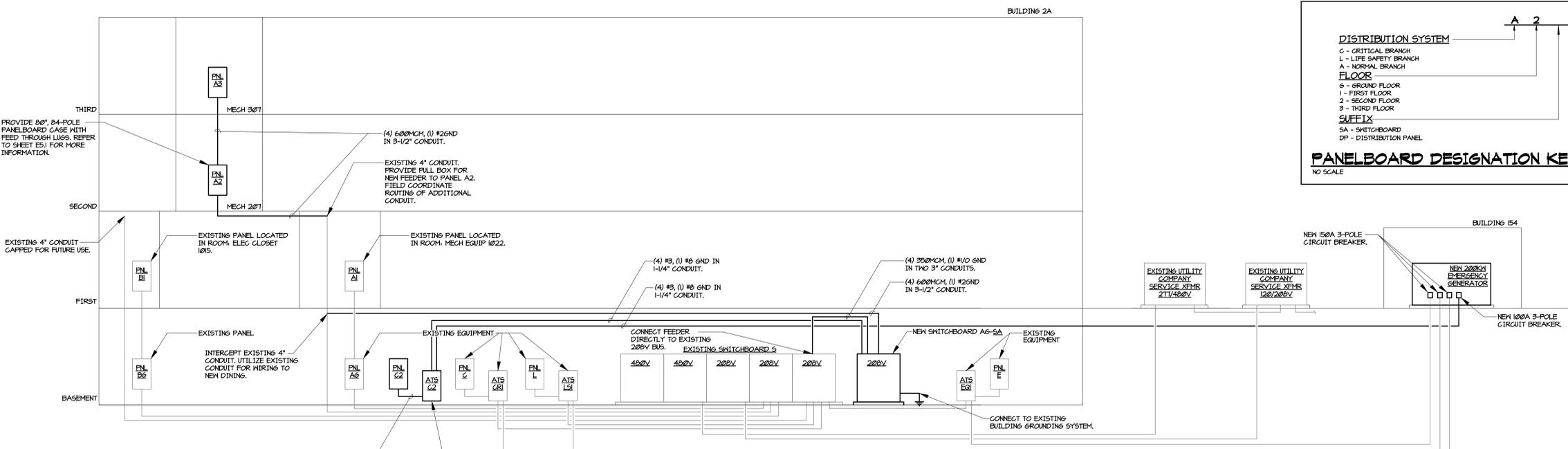
NEW SWITCHBOARD ELEVATION
NO SCALE



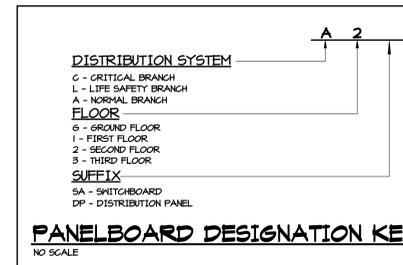
LIGHTING CONTROL RISER DIAGRAM
NO SCALE



DEMOLITION POWER RISER DIAGRAM - ADDITION
NO SCALE



NEW POWER RISER DIAGRAM - ADDITION
NO SCALE



EXISTING MAIN SWITCHBOARD "S" CALCULATIONS

1. CALCULATION UTILIZES EXISTING PEAK LOAD ON MEB * 5% PER NEC & CONTINUOUS MONITORING PROVIDED FROM AUGUST 2011 THROUGH FEBRUARY 2012.

PEAK DEMAND PER MONITORING DATA = 103.01KVA
103.01KVA = 510.2A (AMPS)
510.2A x 1.25 (PER NEC) = 637.8A
637.8A = PEAK LOAD DEMAND PER NEC

1308A SERVICE - PEAK DEMAND = 150.2A AVAILABLE

NEW DEMAND LOAD = 236.5A
A. PANEL A2 = 213.9A
B. PANEL C2 = 19.5A
C. EXISTING PANEL L = 2.9A INCREASE

NEW DEMAND LOAD IS LESS THAN THE AVAILABLE SERVICE.
236.5A < 150.2A

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Approved Energy Engineer
CONSTRUCTION DOCUMENTS

Approved Infection Control
Approved Safety Manager
Approved GEMS Coordinator

Approved Service Chief
Approved Chief of Staff
Approved Associate Director

Drawing Title:
POWER RISER DIAGRAM - ADDITION

Project Title:
**Patient Dining Area CLC
VA Medical Center**
SFCs Commission Number: 6527.00
Location:
Salem, Virginia

Project Number:
658-307
Building Number(s):
2/2A
Drawing Number:
E4.1
Dwg 63 of 65

