

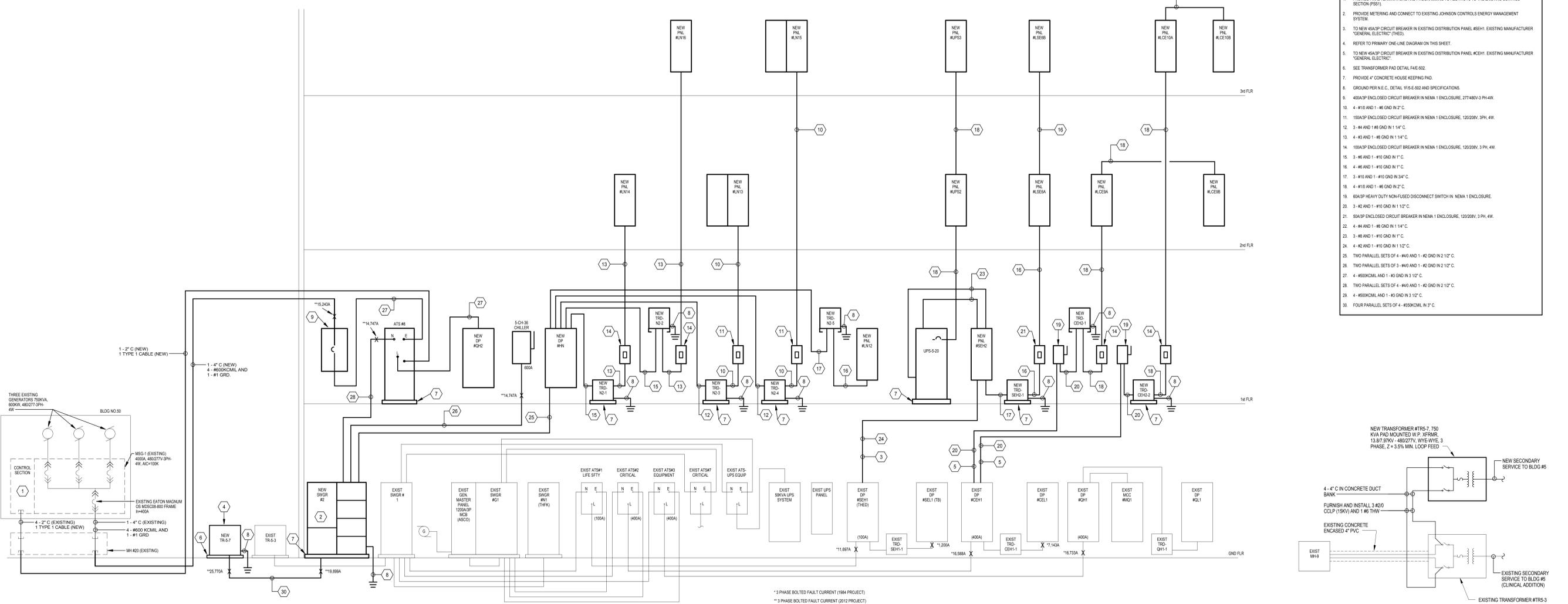
**BUILDING MAIN ELECTRICAL SERVICES PLAN**

**NOTE: CONTRACTOR SHALL PROVIDE A PERMANENTLY INSTALLED PLAQUE AT EACH MAIN SWITCH LOCATION IDENTIFYING THE LOCATIONS OF ALL OTHER MAIN SWITCHES WITHIN BUILDING #5 SIMILAR IN DETAIL TO THESE PLANS IN ACCORDANCE WITH N.E.C. ARTICLE 230.2. PLAQUE SHALL BE NO SMALLER THAN 8"x10" OVERALL. REVIEW WITH RESIDENT ENGINEER PRIOR TO FABRICATION.**

**1B MULTIPLE ELECTRICAL SERVICE DETAIL**  
1/4" = 1'-0"

**ELEC RISER DIAGRAM KEYNOTES**

1. PROVIDE FINAL TERMINATIONS AND PROGRAMMING TO ADD ATS #8 TO THE EXISTING CONTROL SECTION (P551).
2. PROVIDE METERING AND CONNECT TO EXISTING JOHNSON CONTROLS ENERGY MANAGEMENT SYSTEM.
3. TO NEW 450A/3P CIRCUIT BREAKER IN EXISTING DISTRIBUTION PANEL #5E11. EXISTING MANUFACTURER "GENERAL ELECTRIC" (THEE).
4. REFER TO PRIMARY ONE-LINE DIAGRAM ON THIS SHEET.
5. TO NEW 450A/3P CIRCUIT BREAKER IN EXISTING DISTRIBUTION PANEL #CEH1. EXISTING MANUFACTURER "GENERAL ELECTRIC".
6. SEE TRANSFORMER PAD DETAIL FAE-502.
7. PROVIDE 4" CONCRETE HOUSE KEEPING PAD.
8. GROUND PER N.E.C. DETAIL 1F5-E-502 AND SPECIFICATIONS.
9. 450A/3P ENCLOSED CIRCUIT BREAKER IN NEMA 1 ENCLOSURE. 277480V-3 PH-4W.
10. 4 - #10 AND 1 - #6 GND IN 2" C.
11. 150A/3P ENCLOSED CIRCUIT BREAKER IN NEMA 1 ENCLOSURE. 120208V-3PH-4W.
12. 3 - #4 AND 1 #6 GND IN 1 1/4" C.
13. 4 - #3 AND 1 - #8 GND IN 1 1/4" C.
14. 100A/3P ENCLOSED CIRCUIT BREAKER IN NEMA 1 ENCLOSURE. 120208V-3 PH-4W.
15. 3 - #6 AND 1 - #10 GND IN 1" C.
16. 4 - #6 AND 1 - #10 GND IN 1" C.
17. 3 - #10 AND 1 - #10 GND IN 3/4" C.
18. 4 - #10 AND 1 - #6 GND IN 2" C.
19. 60A/3P HEAVY DUTY NON-FUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE.
20. 3 - #2 AND 1 - #10 GND IN 1 1/2" C.
21. 50A/3P ENCLOSED CIRCUIT BREAKER IN NEMA 1 ENCLOSURE. 120208V-3 PH-4W.
22. 4 - #4 AND 1 - #10 GND IN 1 1/4" C.
23. 3 - #6 AND 1 - #10 GND IN 1" C.
24. 4 - #2 AND 1 - #10 GND IN 1 1/2" C.
25. TWO PARALLEL SETS OF 4 - #40 AND 1 - #2 GND IN 2 1/2" C.
26. TWO PARALLEL SETS OF 3 - #40 AND 1 - #2 GND IN 2 1/2" C.
27. 4 - #50KCMIL AND 1 - #3 GND IN 3 1/2" C.
28. TWO PARALLEL SETS OF 4 - #40 AND 1 - #2 GND IN 2 1/2" C.
29. 4 - #50KCMIL AND 1 - #3 GND IN 3 1/2" C.
30. FOUR PARALLEL SETS OF 4 - #50KCMIL IN 3" C.

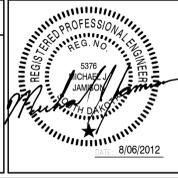


**1F SECONDARY PARTIAL POWER DISTRIBUTION DIAGRAM**  
No Scale

**8F PRIMARY ONE-LINE DIAGRAM**  
No Scale

**CONSULTANTS:**

**ARCHITECTS/ ENGINEERS:**



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To Solve. To Excel. Together.

Drawing Title  
**SECONDARY PARTIAL POWER DISTRIBUTION DIAGRAM**

Approved: Project Director

Project Title  
**Sioux Falls VA Health Care System  
Acute Inpatient Medical Unit Addition  
and Renovation**

Location  
VA Medical Center  
2891 W. 22nd Street, PO Box 5046  
Sioux Falls, SD 57117-5046

Date: 08/06/2012  
Checked: MJJ  
Drawn: KAK  
Project Number: 04100857  
Building Number: 5  
Drawing Number: 5-E-601  
Dwg. 120 of 123

**FULLY SPRINKLERED  
100% CONSTRUCTION DOCUMENTS**

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