

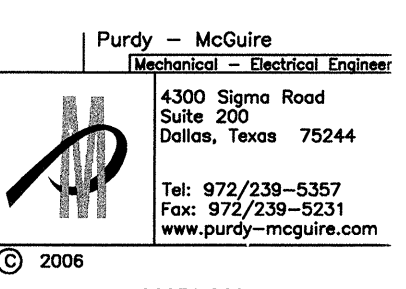
OWNER  
COLLIN COUNTY  
4600 COMMUNITY AVE.  
MCKINNEY, TX 75071  
T. 972.547.5340  
F. 972.547.5385

ARCHITECT



105 DECKER COURT  
SUITE 600  
IRVING, TEXAS 75062  
T. 972.871.2225  
F. 972.871.2228

CONSULTANT



Purdy - McGuire  
4300 Sigma Road  
Dallas, Texas 75244  
Tel: 972.238-5387  
Fax: 972.238-3331  
www.purdy-mcguire.com

PROJECT TITLE  
COLLIN COUNTY  
ADMINISTRATION  
BUILDING

PROJECT LOCATION  
2352 BLOOMDALE ROAD  
MCKINNEY, TX 75071

DATE OF ISSUE  
AUGUST 31, 2007  
Construction Documents  
REVISIONS

DESIGNER  
Pierce Goodwin Alexander & Linnell

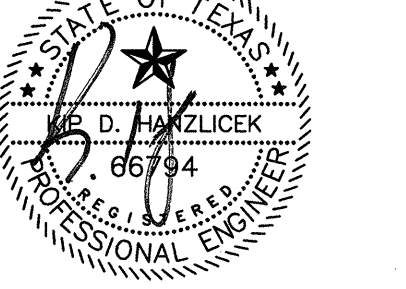
CHECKED BY  
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ACCEPTED

SUBMITTED

APPROVED

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9.7.07

SHEET TITLE  
ELECTRICAL  
ONE-LINE RISER (BASE)

SHEET NUMBER

E5.01

**KEYED NOTES:**

- DRAWINGS CURRENTLY INDICATE 40HP AS A PLACE HOLDER UNTIL ELEVATOR INFORMATION HAS BEEN CONFIRMED BY THE ELEVATOR MANUFACTURER. CONTRACTOR SHALL COORDINATE WITH ELEVATOR MANUFACTURER PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT AND MATERIAL (CONDUITS), SUBMITTING LITERATURE AND ROUGHING-IN ELECTRICAL EQUIPMENT. ANY DEVIATION FROM THE BASIS OF THE DESIGN, INCLUDING LISTED ACCEPTABLE ALTERNATES, THE COST SHALL BE BORNE BY THE CONTRACTOR.
- DRAWINGS CURRENTLY INDICATE 100HP FIRE PUMP AS A PLACE HOLDER UNTIL FIRE PUMP INFORMATION HAS BEEN CONFIRMED BY THE FIRE PUMP MANUFACTURER. CONTRACTOR SHALL COORDINATE WITH FIRE PUMP MANUFACTURER PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT AND MATERIAL (CONDUITS), SUBMITTING LITERATURE AND ROUGHING-IN ELECTRICAL EQUIPMENT.
- VFD'S SHALL BE FURNISHED BY DIVISION 15 AND INSTALLED BY DIVISION 16.

**KEYED NOTES:**

- PROVIDE JUNCTION BOX FOR 3/10, 600V TYPE CABLE OKONITE-FMR OKOSEAL OR EQUIVALENT WITH DIELECTRIC CONSTANT NOT GREATER THAN 3.2. RUN HEAT TRACE CIRCUIT SEPARATELY IN AN INDIVIDUAL DEDICATED 3/4" CONDUIT TO THE INDICATED 30MA GROUND FAULT EQUIPMENT PROTECTION CIRCUIT BREAKER (TYPICAL FOR HEAT TRACE).

**GENERAL NOTES:**

- ALL WIRING TO BE COPPER
- ALL BUSING TO BE COPPER
- TRANSFORMERS TO HAVE COPPER WINDINGS
- ALL PANELBOARDS TO HAVE 100% RATED FEED THROUGH LUGS
- E. ALL PANELBOARDS TO BE 42 SPACES PER SECTION WITH 20A, 1-POLE BREAKERS.

**FEEDER SCHEDULE**

3 PHASE, 3 WIRE

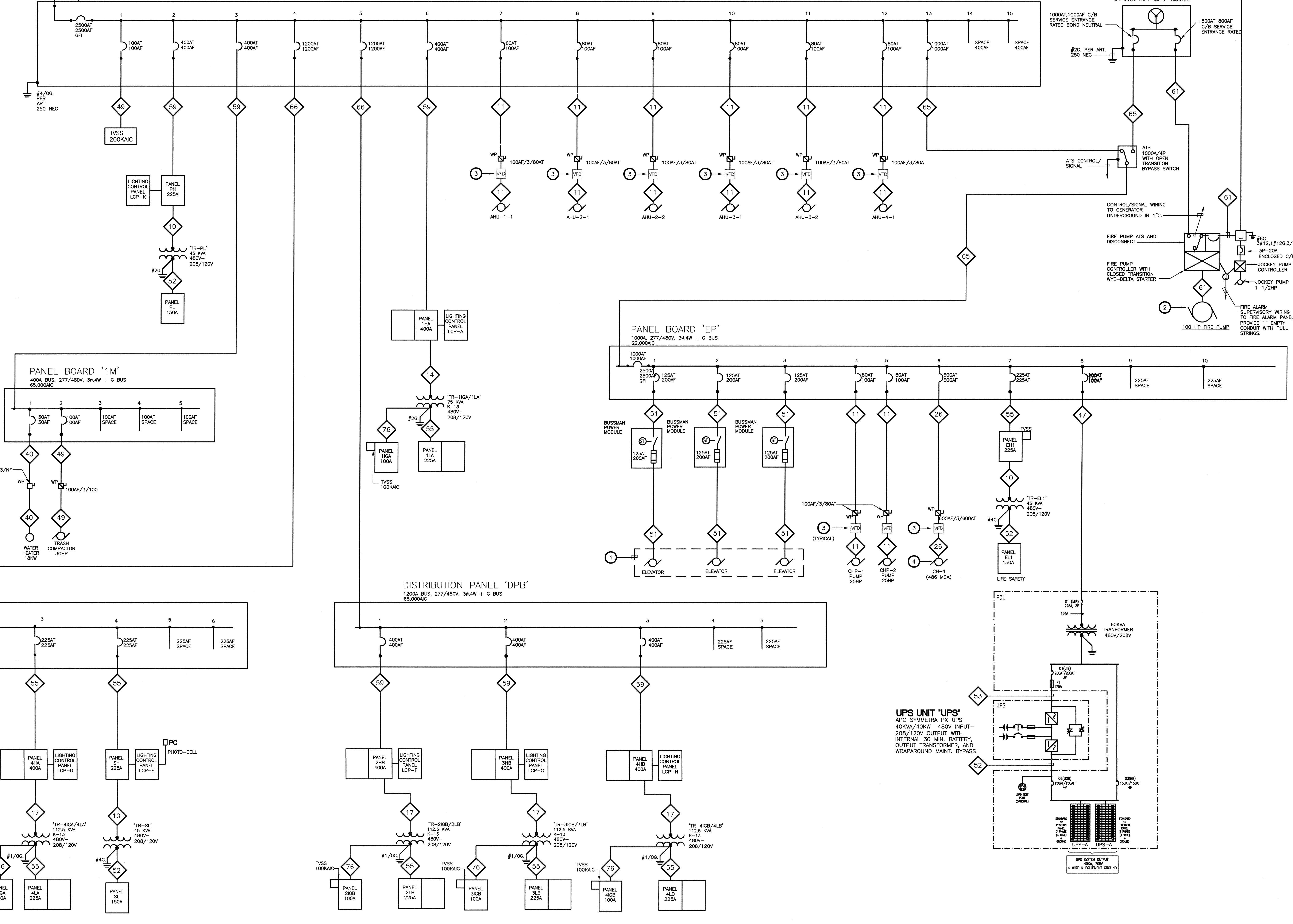
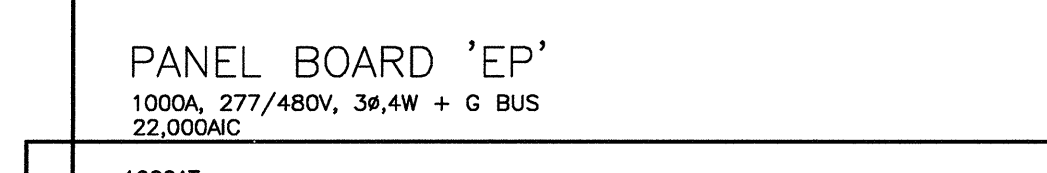
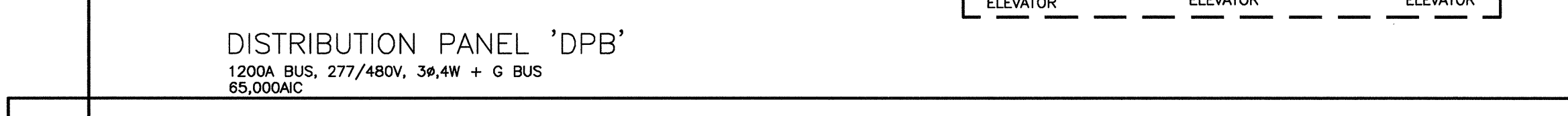
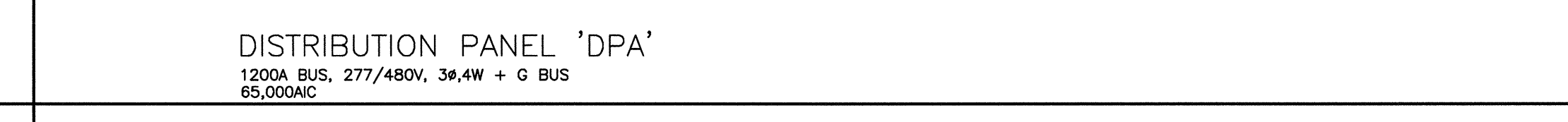
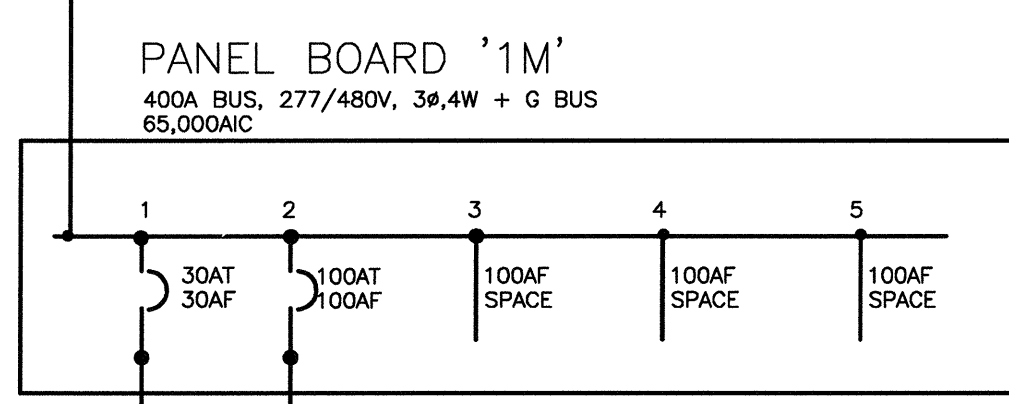
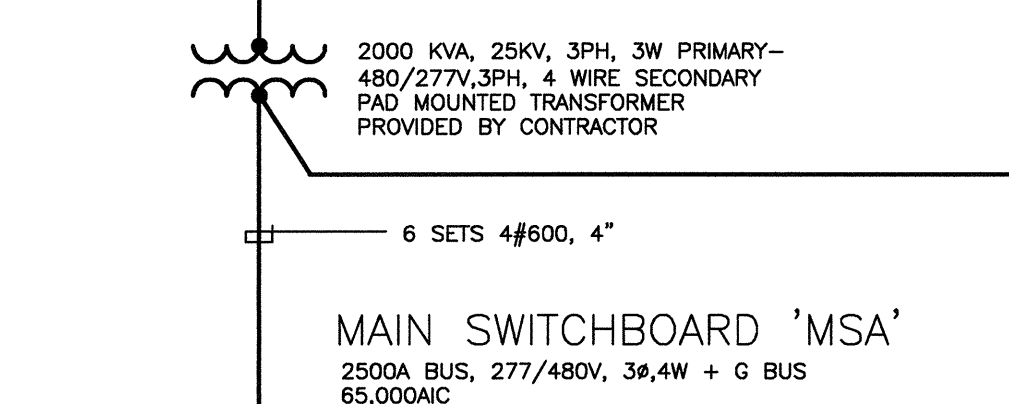
NOTE	BKR	FEEDER SIZE
50/3	3#8, 1#10G, 3/4"C	
70/3	3#4, 1#8G, 1"C	
80/3	3#3, 1#8G, 1"C	
100/3	3#2, 1#8G, 1-1/4"C	
110/3	3#1, 1#8G, 1-1/4"C	
175/3	3#20, 1#12G, 1-1/2"C	
350/3	3#50, 1#3G, 4"C	
800/3	2 SETS: 3#350, 1#1G, 2-1/2"C	

3 PHASE, 4 WIRE

NOTE	BKR	FEEDER SIZE
15/3	4#12, 1#12G, 3/4"C	
30/3	4#10, 1#10G, 3/4"C	
70/3	4#4, 1#8G, 1-1/4"C	
80/3	4#3, 1#8G, 1-1/4"C	
100/3	4#2, 1#8G, 1-1/2"C	
125/3	4#1, 1#8G, 1-1/2"C	
150/3	4#1/0, 1#8G, 1-1/2"C	
175/3	4#2/0, 1#12G, 1-1/2"C	
225/3	4#4/0, 1#4G, 2-1/2"C	
250/3	4#250, 1#4G, 2-1/2"C	
400/3	4#600, 1#3G, 4"C	
500/3	2 SETS: 4#250, 1#2G, 3"C	
1000/3	4 SETS: 4#250, 1#2/0G, 3"C	
1200/3	3 SETS: 4#600, 1#3/0G, 4"C	

3 PHASE, 4 WIRE, 200% NEUTRAL, ISOLATED GROUND

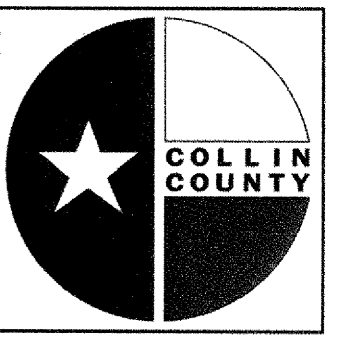
NOTE	BKR	FEEDER SIZE
100/3	5#2, 2#8G, 1-1/2"C	
225/3	5#4/0, 2#4G, 2-1/2"C	



**1 ELECTRICAL ONE LINE DIAGRAM (BASE)**

SCALE: NONE





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ARCHITECT  
 PGAL  
 105 DECKER COURT  
 SUITE 600  
 IRVING, TX 75062  
 (T) 972.871.2225  
 (F) 972.871.2228

CONSULTANT



5767.8.7.2009.8017

PROJECT TITLE  
 COLLIN COUNTY  
 COURTHOUSE  
 ADDITION

PROJECT NUMBER  
 590.0800.00  
 PROJECT LOCATION  
 2100 BLOOMDALE ROAD  
 MCKINNEY, TX 75071

DATE OF ISSUE  
 AUGUST 7, 2009  
 CONSTRUCTION DOCUMENTS  
 REVISIONS

REVISION #1  
 07/27/2009  
 REVISION #2  
 08/07/2009

PREPARED BY  
 Pierce Gaudin Alexander & Linnell

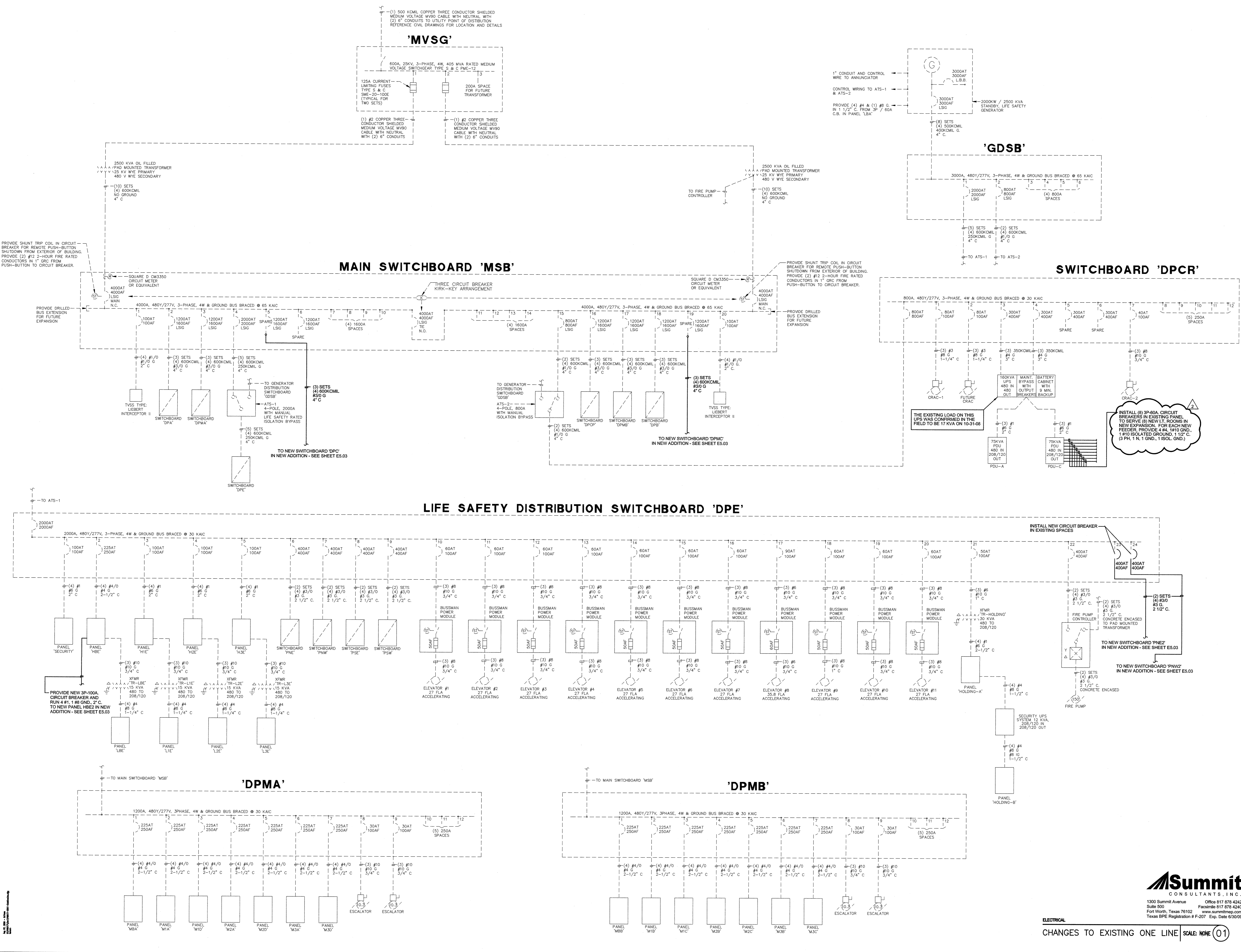
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SHEET TITLE  
 SCHEMATIC DESIGN  
 ELECTRICAL  
 CHANGES TO EXISTING  
 ONE LINE DIAGRAM  
 SHEET NUMBER

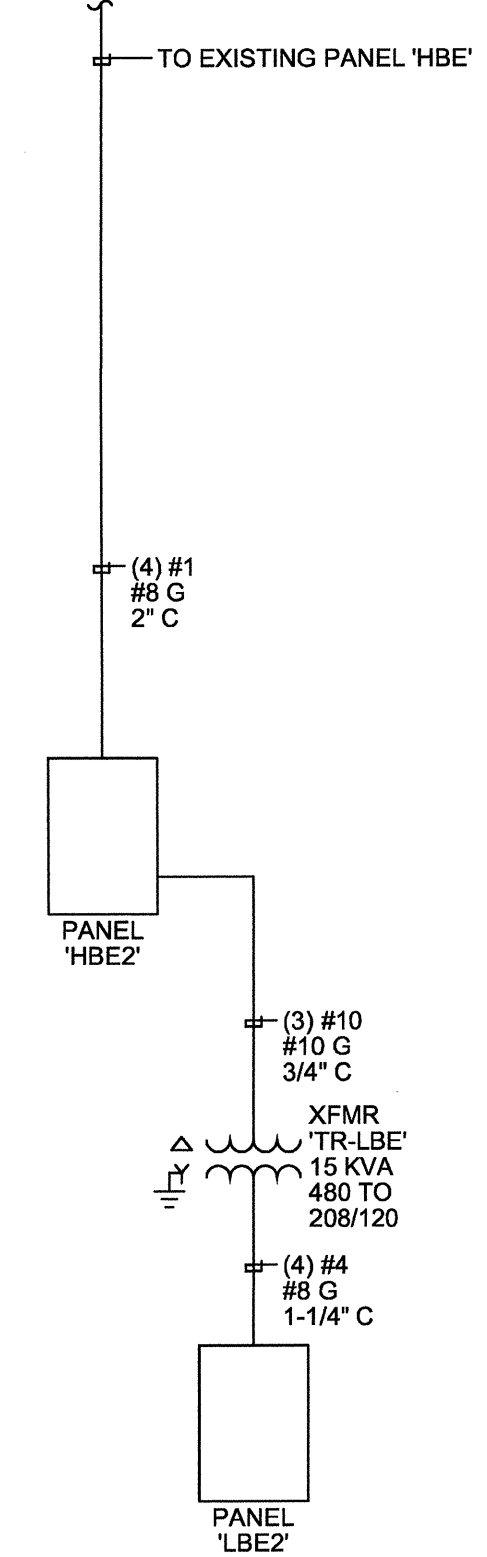
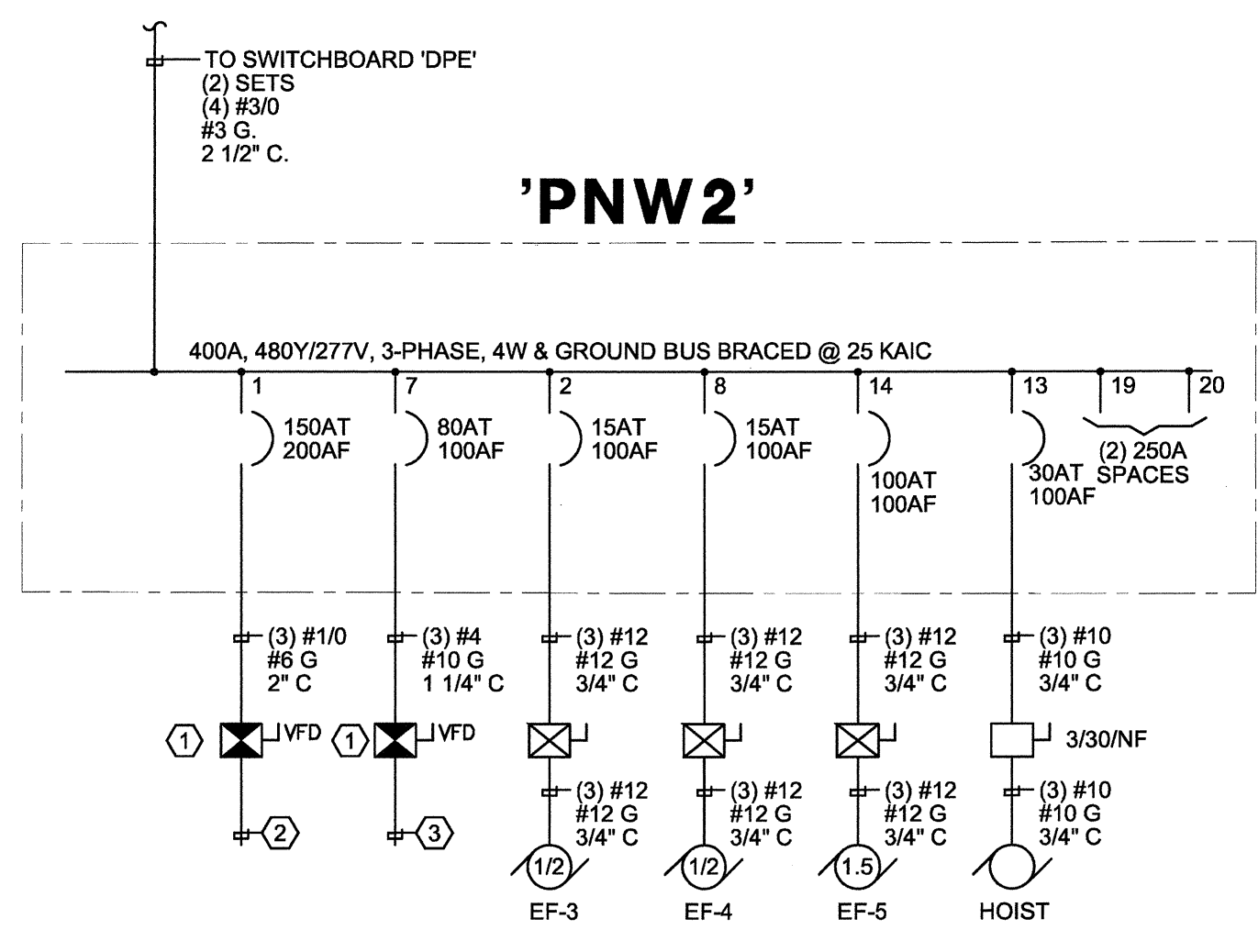
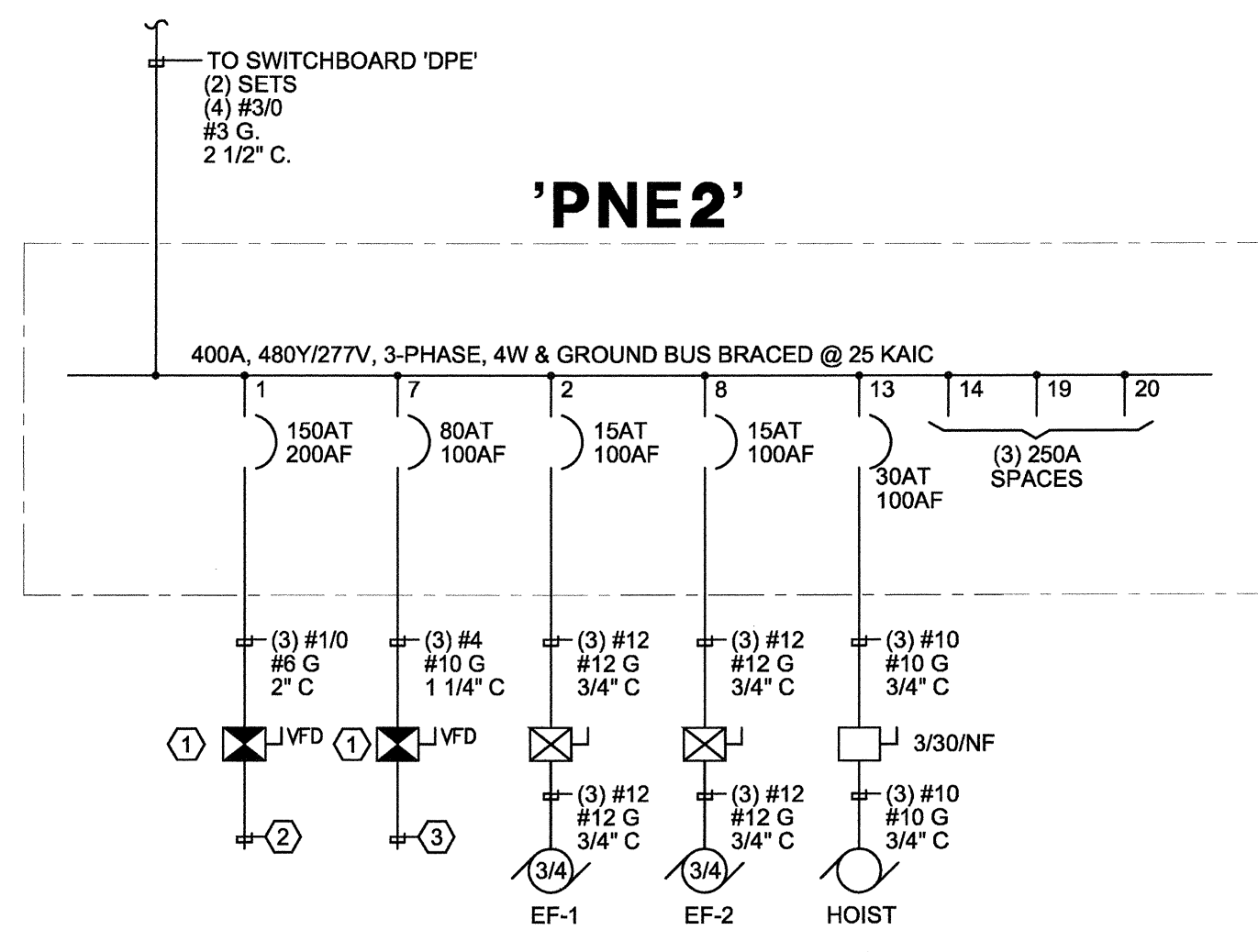
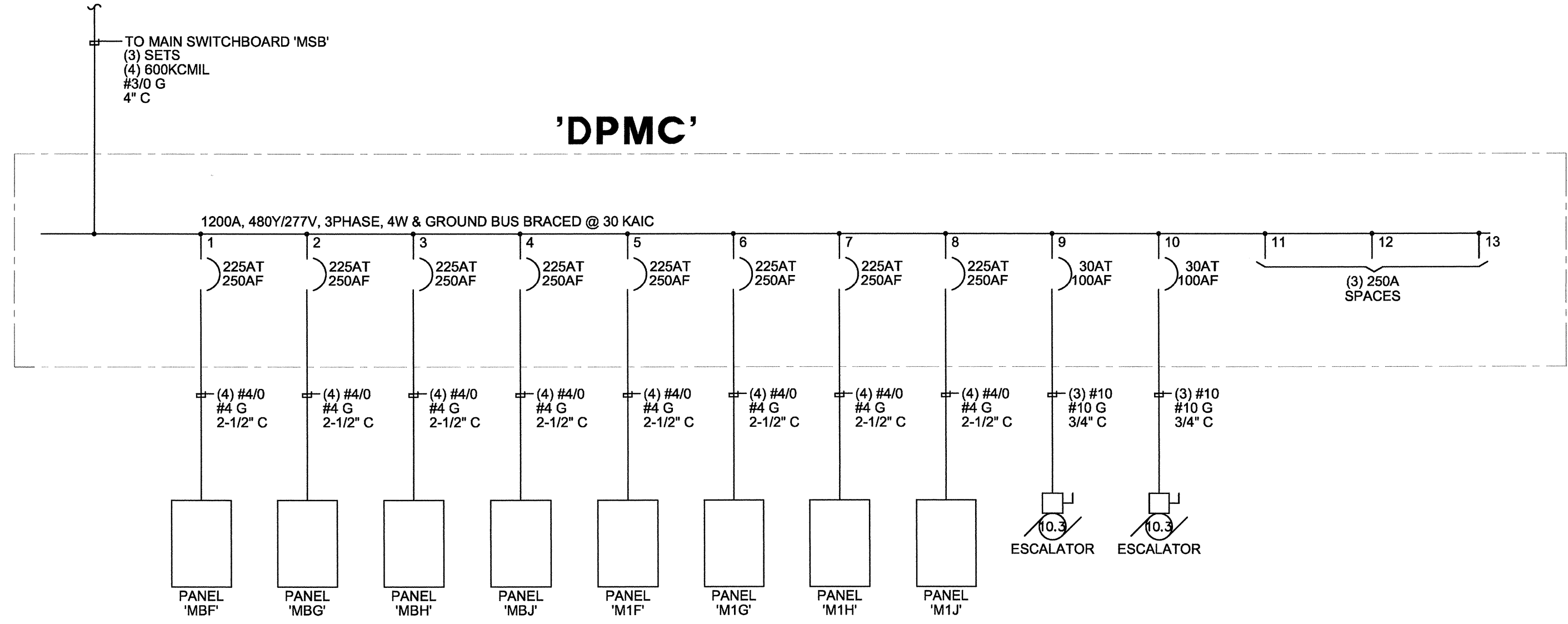
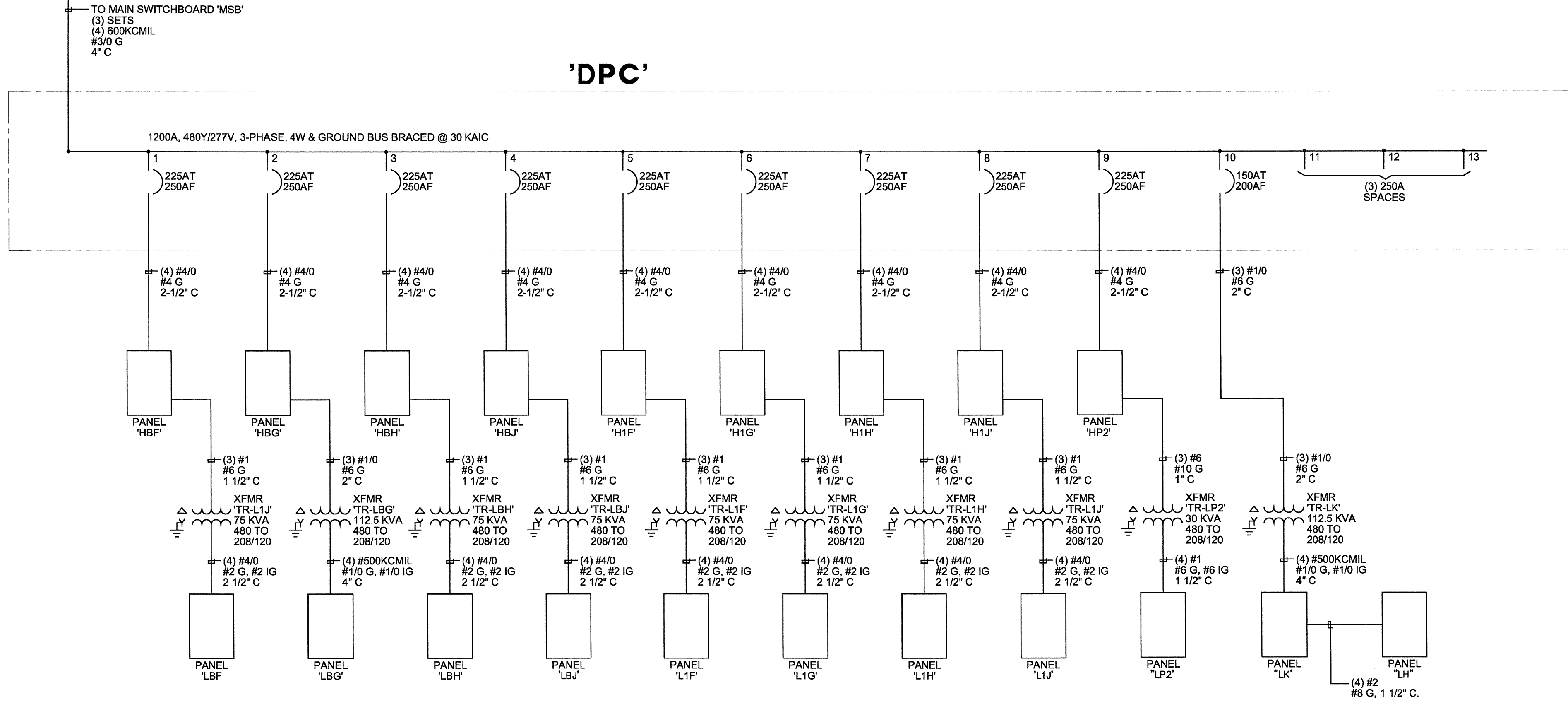
E5.01

**Summit**  
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 Facsimile 817.878.4240  
 www.summitmep.com  
 Texas BPE Registration # F-207 Exp. Date 6/30/09

ELECTRICAL  
 CHANGES TO EXISTING ONE LINE DIAGRAM  
 SCALE: NONE (01)





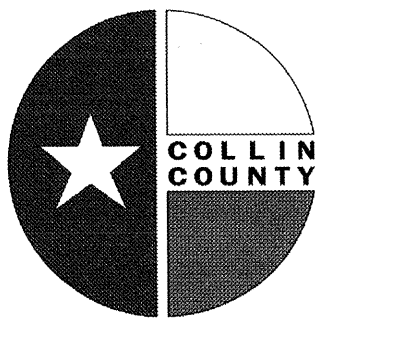


**GENERAL NOTES**

- PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE, AND FAMILIARIZE HIMSELF WITH ALL ASPECTS OF THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM, AND HOW THE NEW ELECTRICAL DISTRIBUTION INTERFACES WITH IT.
- REFER TO DRAWING E5.01 AND E5.02 FOR EXISTING SWITCHBOARDS AND PANELBOARDS IN THE EXISTING BUILDING THAT ARE BEING USED TO PROVIDE POWER TO THE NEW SWITCHBOARDS AND PANELBOARDS SHOWN ON THIS SHEET.

**NOTES BY SYMBOL**

- VARIABLE FREQUENCY DRIVE PROVIDED AND INSTALLED BY EQUIPMENT PROVIDER.
- FEEDERS FROM VFD TO TWELVE 71/2 HP SUPPLY FAN MOTORS. (PROVIDED AND INSTALLED BY EQUIPMENT PROVIDER.)
- FEEDERS FROM VFD TO TWENTY 2 HP RETURN FAN MOTORS. (PROVIDED AND INSTALLED BY EQUIPMENT PROVIDER.)



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**ARCHITECT**



105 DECKER COURT  
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**CONSULTANT**



5488.6.2.2009.8017

**PROJECT TITLE**  
 COLLIN COUNTY  
 COURTHOUSE  
 ADDITION

**PROJECT NUMBER**  
 590.0800.00

**PROJECT LOCATION**  
 2100 BLOOMDALE ROAD  
 MCKINNEY, TX 75071

**DATE OF ISSUE**  
 JUNE 4, 2009

**CONSTRUCTION DOCUMENTS**  
 REVISIONS

Pierce Goodwin Alexander & Umlilo

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 Texas BPE Registration # F-207 Exp. Date 6/30/09

**SHEET TITLE**  
 ELECTRICAL NEW  
 ONE LINE DIAGRAM

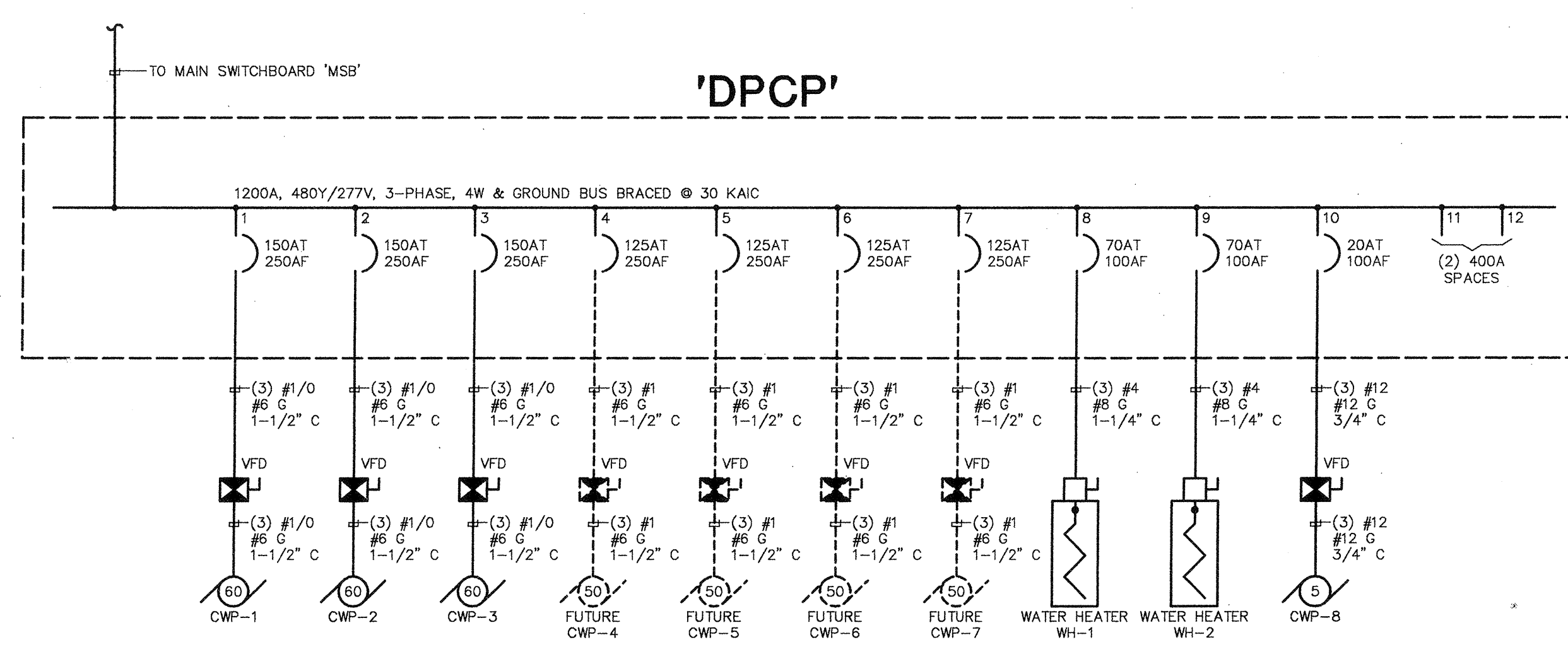
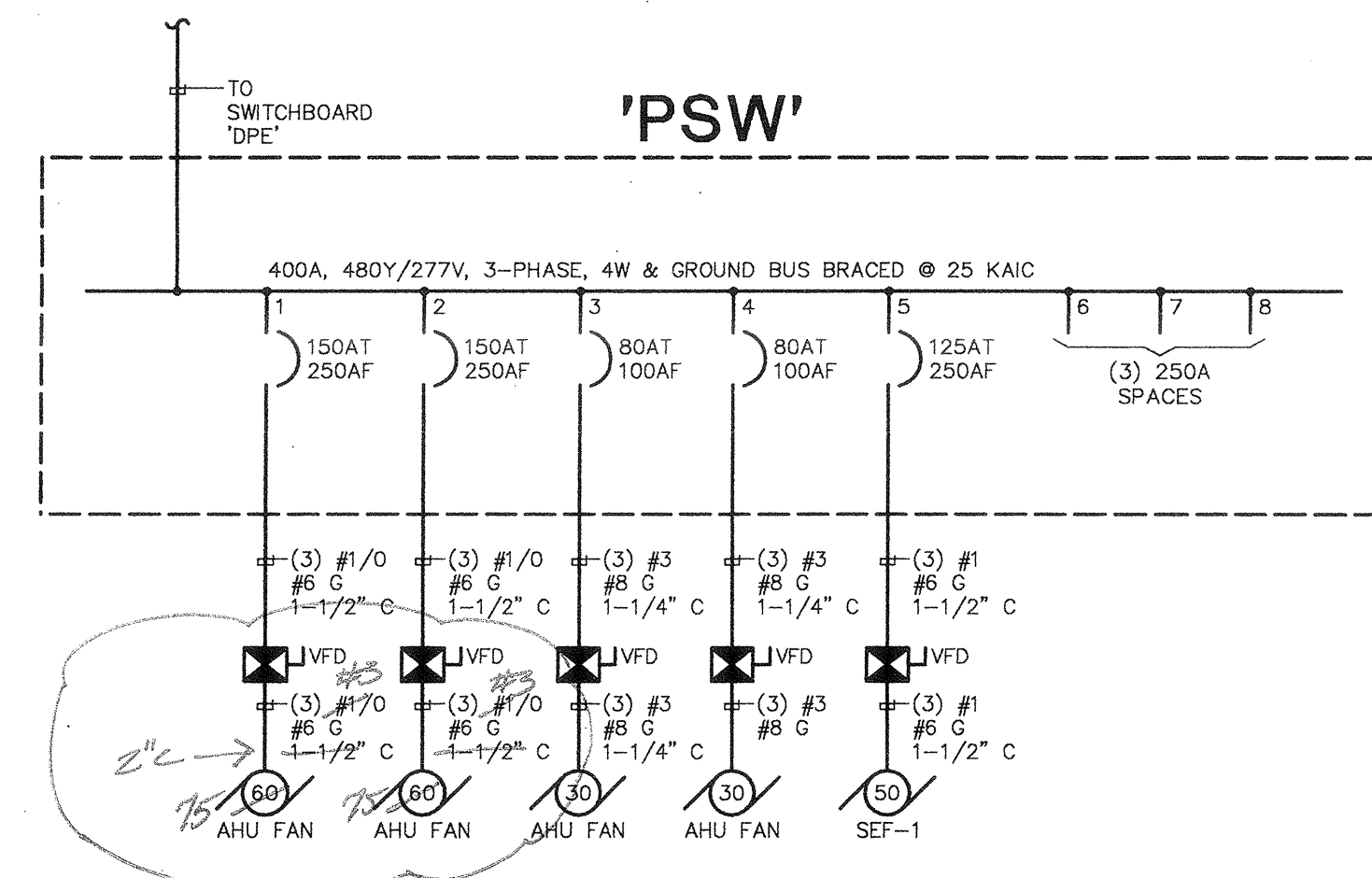
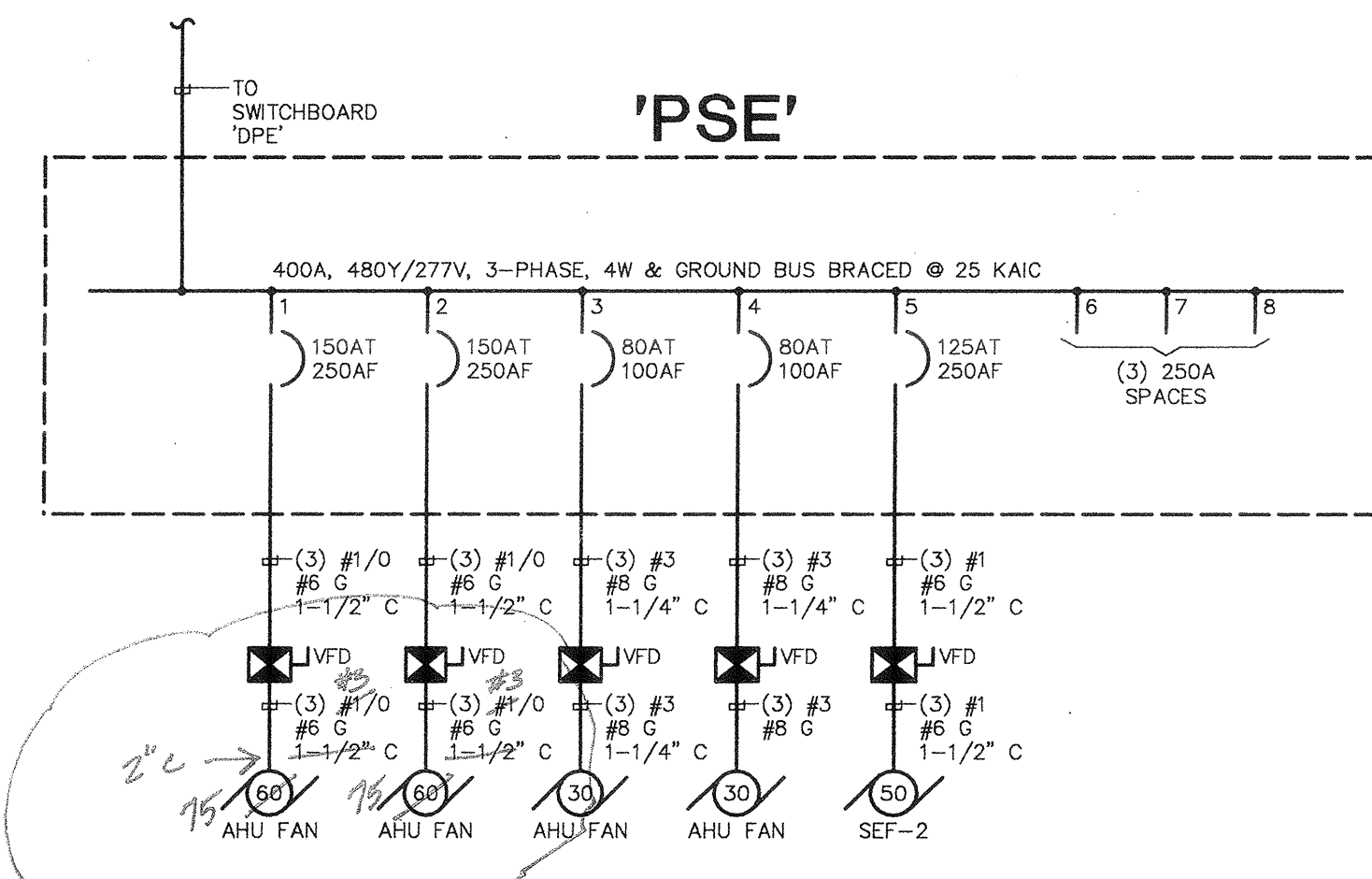
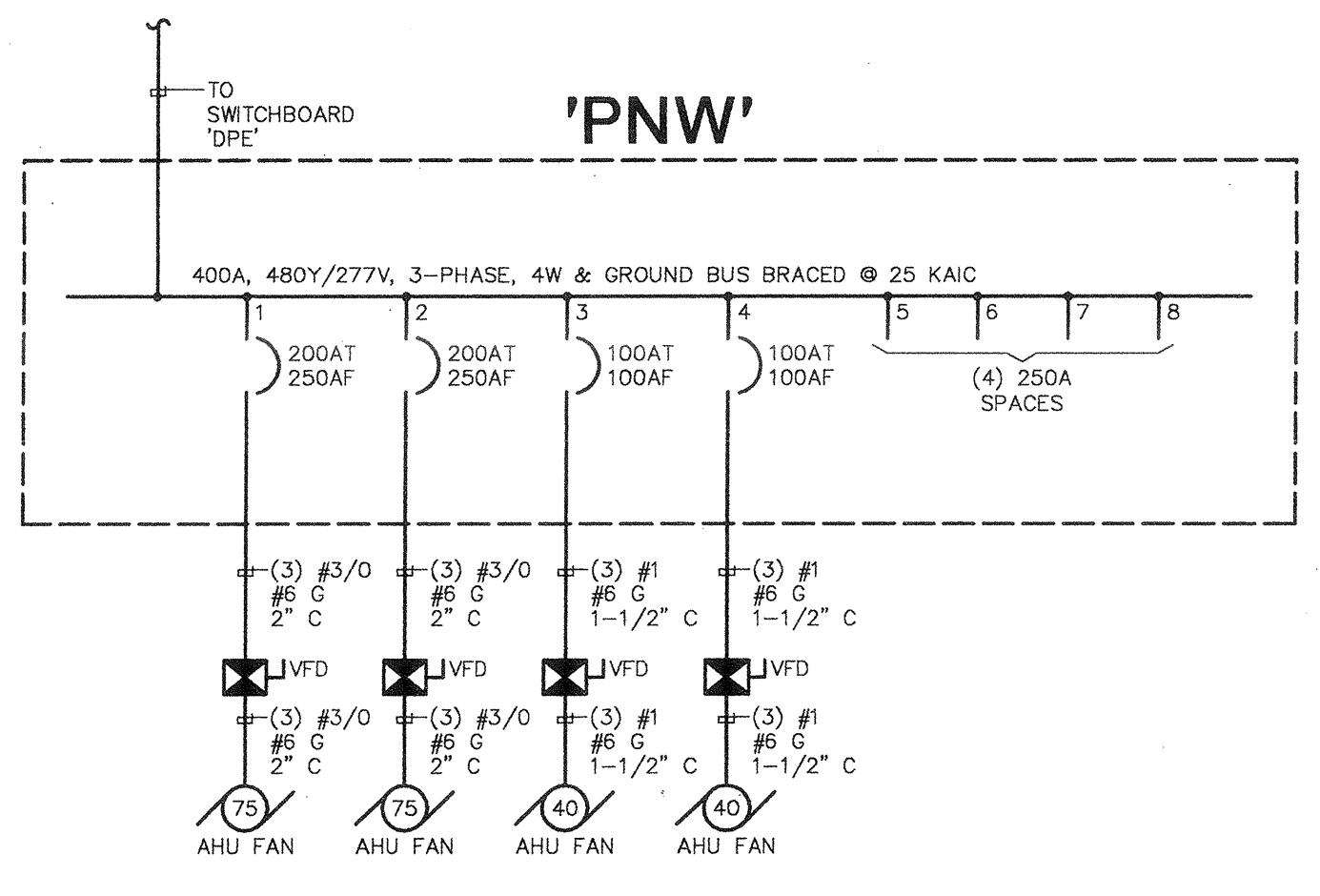
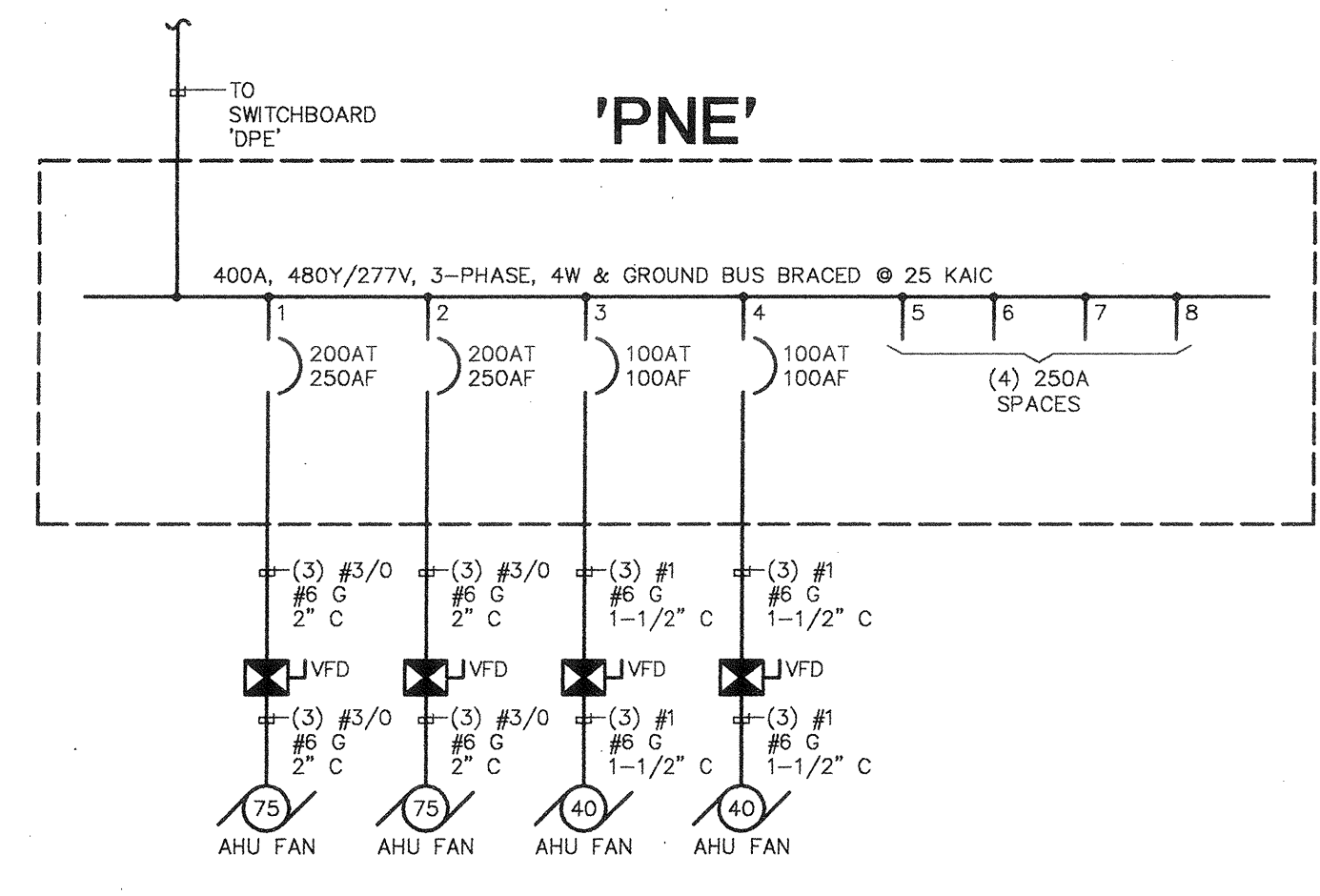
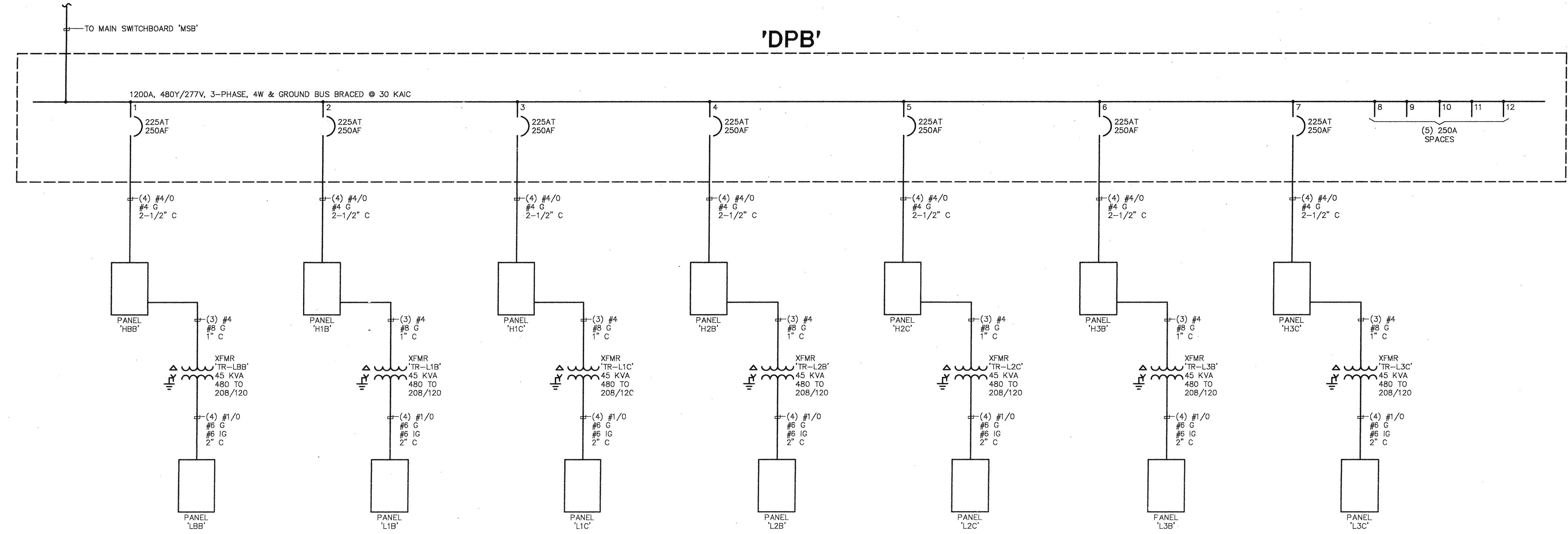
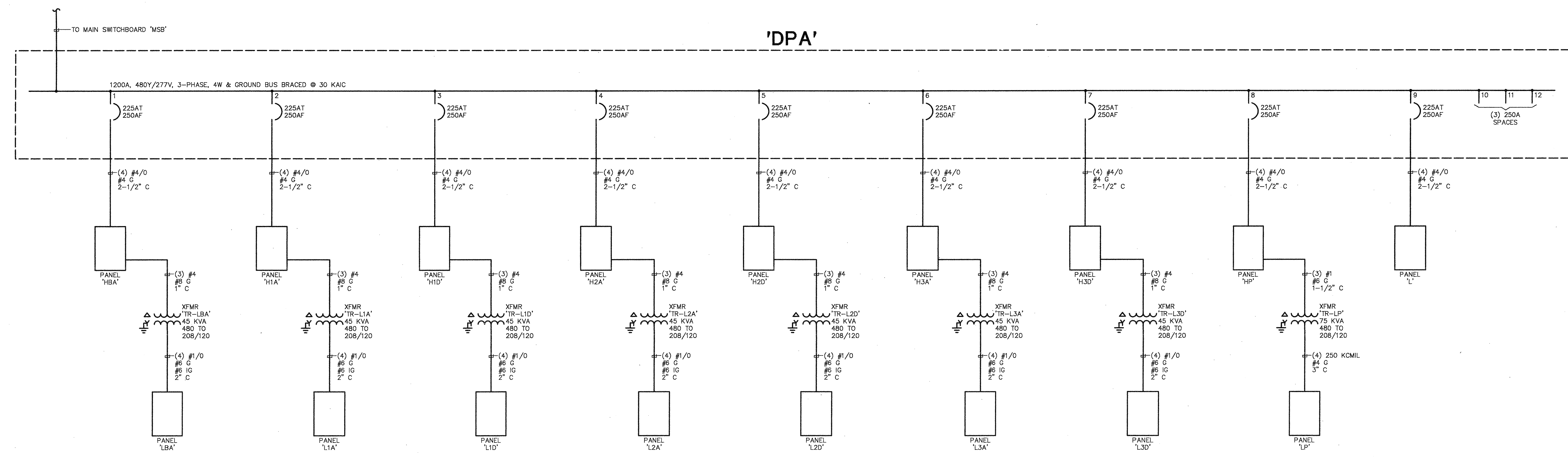
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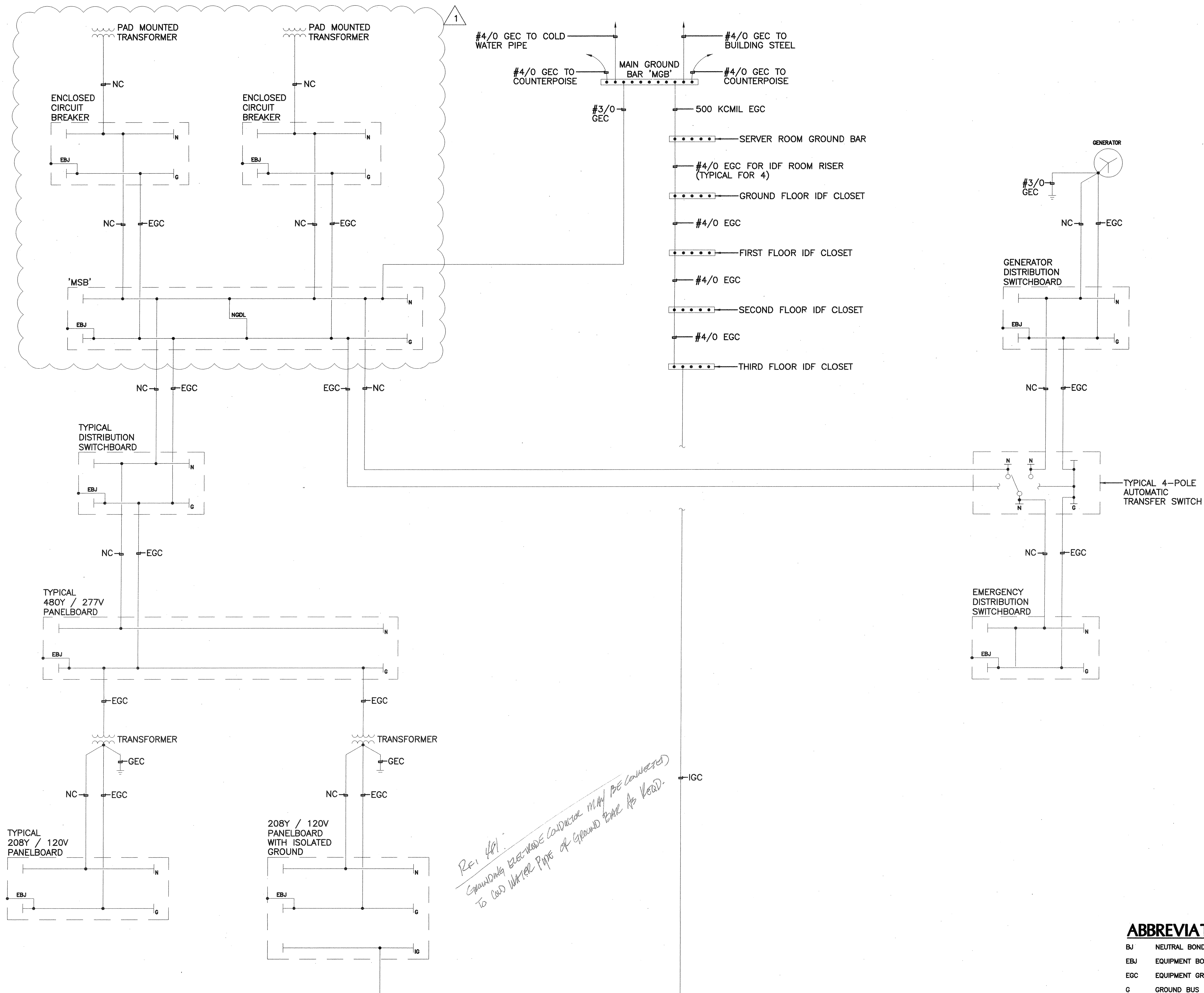
ONE LINE DIAGRAM

SCALE: NONE (01)

**E5.03**







*Re: 401.  
Expandable Electrode Conductor may be connected  
to cold water pipe of ground bar as noted.*

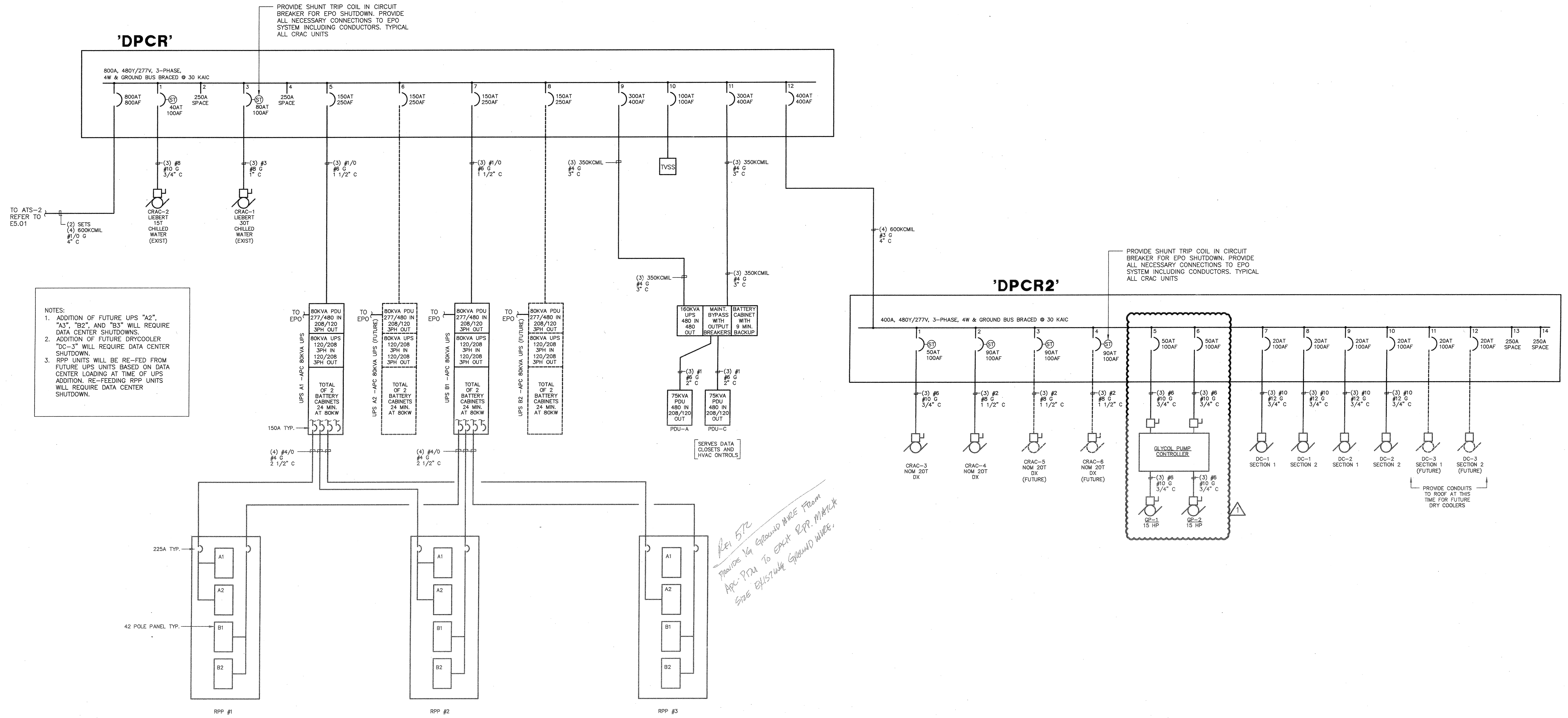
**ABBREVIATIONS:**

- BJ NEUTRAL BONDING JUMPER
- EBJ EQUIPMENT BONDING JUMPER
- EGC EQUIPMENT GROUNDING CONDUCTOR
- G GROUND BUS
- GEC GROUNDING ELECTRODE CONDUCTOR
- IG ISOLATED GROUND BUS
- IGC ISOLATED GROUND CONDUCTOR
- N NEUTRAL BUS
- NC NEUTRAL CONDUCTOR (GROUNDED CIRCUIT CONDUCTOR)
- NGDL NEUTRAL TO GROUND DISCONNECT LINK

**ONE-LINE  
DIAGRAM  
GROUNDING**

Purdy - McGuire  
Electrical - Building Division  
1405 Ross Street  
Dallas, Texas 75201-2888  
Tel: 972.720.5300  
Fax: 972.720.5301  
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THIS DOCUMENT SHALL NOT BE REPRODUCED FOR  
ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS  
PREPARED WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TEXAS

**STATE OF TEXAS**  
KIP D. HANZLICK  
66794  
Professional Engineer



NOTES:  
1. ADDITION OF FUTURE UPS "A2", "A3", "B2", AND "B3" WILL REQUIRE DATA CENTER SHUTDOWNS.  
2. ADDITION OF FUTURE DRYCOOLER "DC-3" WILL REQUIRE DATA CENTER SHUTDOWN.  
3. RPP UNITS WILL BE RE-FED FROM FUTURE UPS UNITS BASED ON DATA CENTER LOADING AT TIME OF UPS ADDITION. RE-FEEDING RPP UNITS WILL REQUIRE DATA CENTER SHUTDOWN.

*REV 572  
Provide 1/2" Expansion NACE From  
APC PDU To Each RPP. Mark it  
Size Electrical Expansion NACE.*

VOLT: 480 / 277 PH: 3 WIRE: 4 BY: \_\_\_\_\_  
MAIN AMPS: 800 AMP. MCB PROJECT: CCJC  
PMI NO: 2078

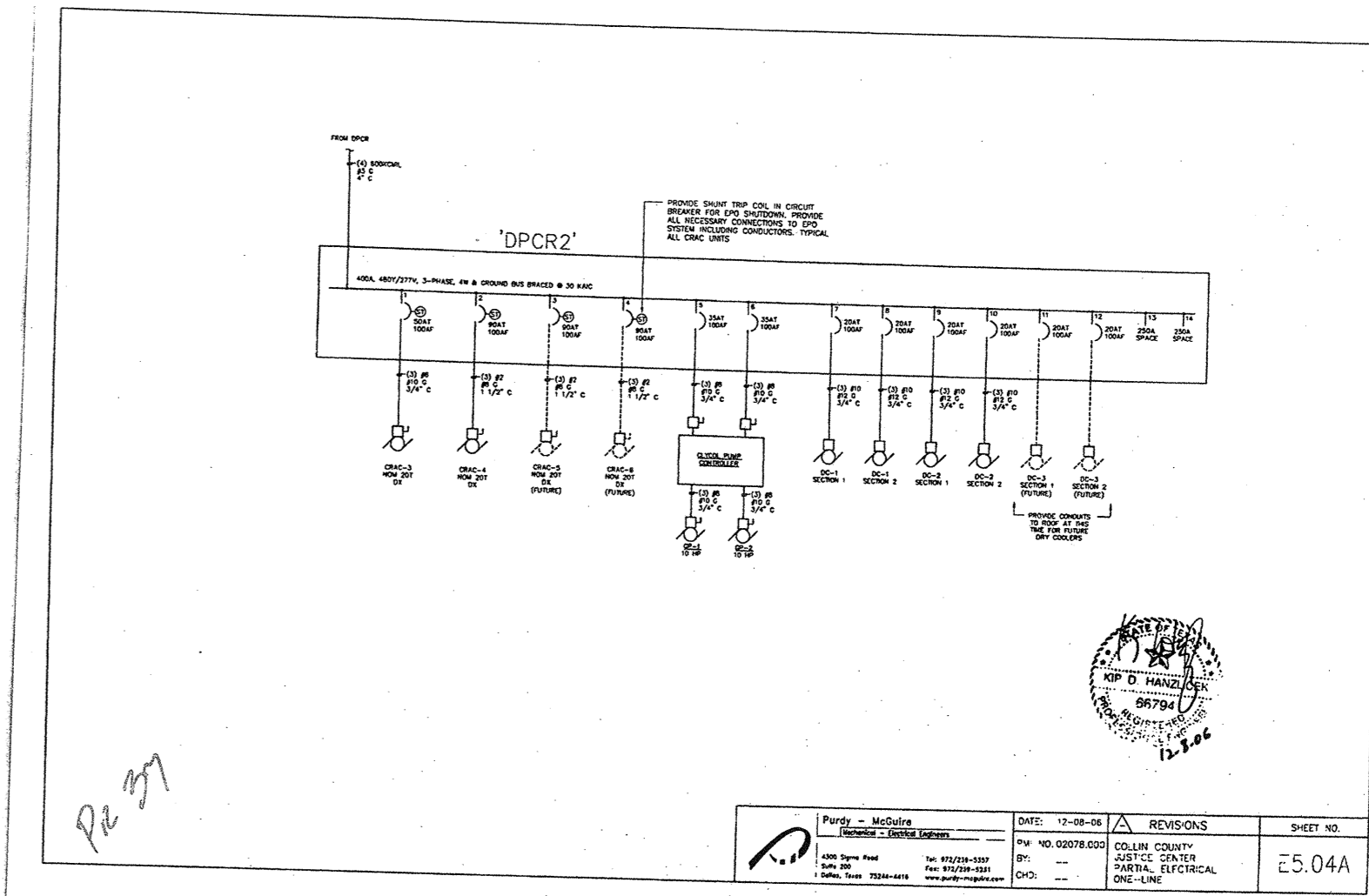
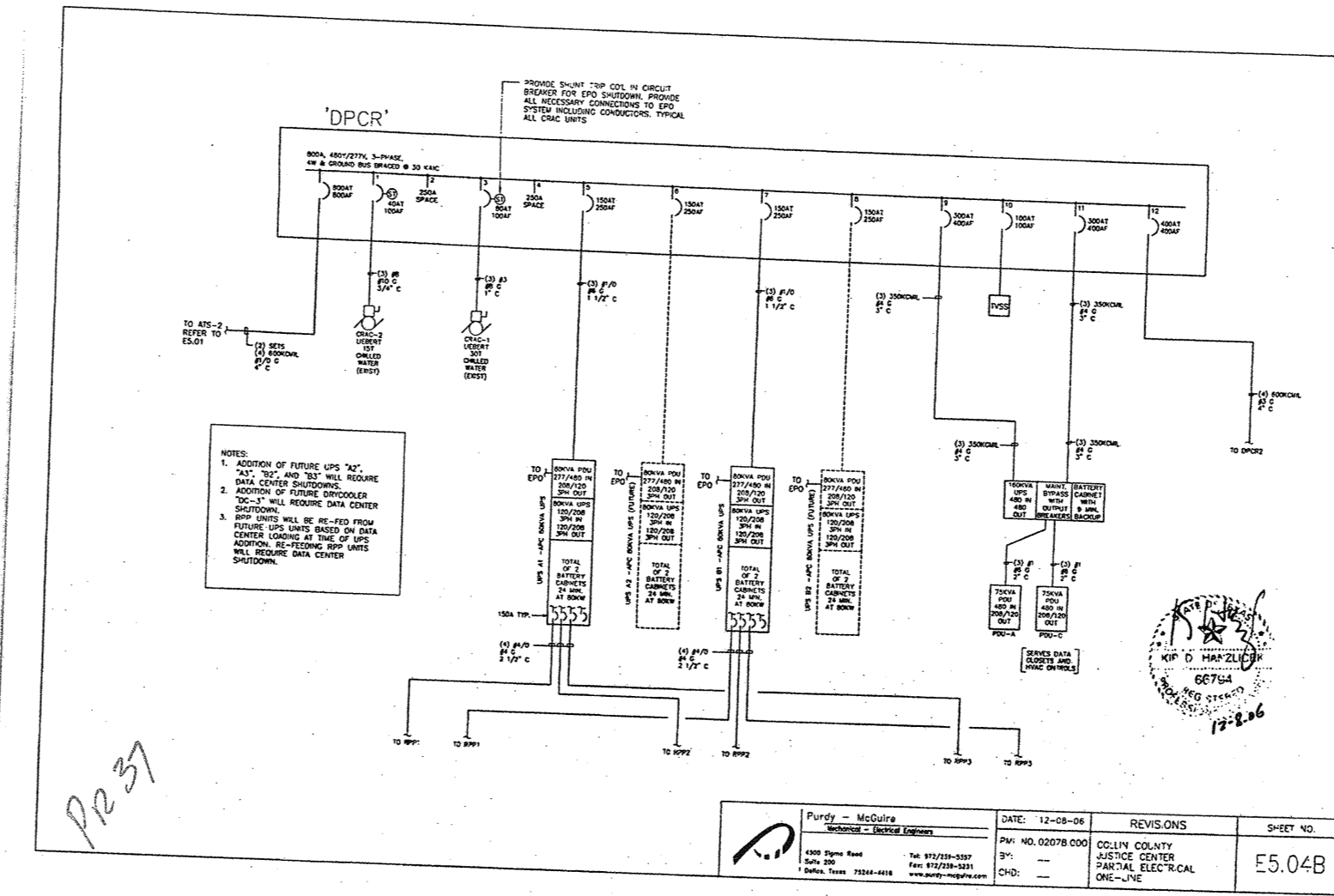
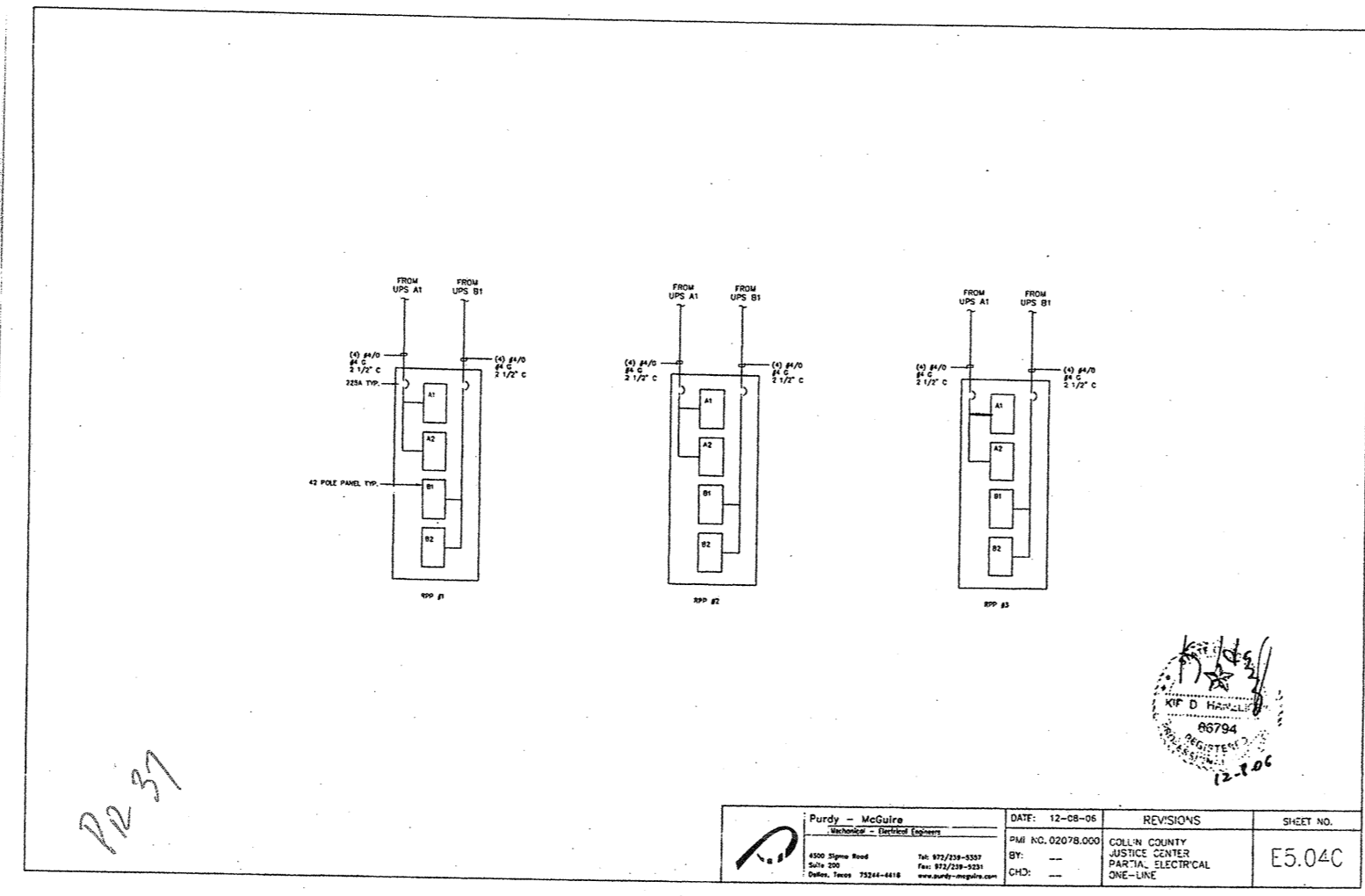
AIC RATING: 25,000 MOUNTING: SURFACE

CKT #	LOAD DESCRIPTION	FRAME SIZE	POLES	TRIP SIZE	CONNECTED LOAD VOLT-AMPS
1	CRAC-3	100	3	40	27506
2	SPACE	250			
3	CRAC-1	100	3	80	47034
4	SPACE	250			
5	UPS A1 80KVA	250	3	150	80000
6	UPS A2 80 KVA (FUTURE)	250	3	150	80000
7	UPS B1 80KVA	250	3	150	
8	UPS B2 80KVA (FUTURE)	250	3	150	
9	UPS C 160KVA	400	3	300	160000
10	TVSS				
11	UPS C BYPASS	400	3	300	
12	DPCR2	400	3	400	212913
TOTAL LOAD					607453
TOTAL LIGHTING 0 X 1.25 0 REMARKS:					
TOTAL KITCHEN 0 X 0.65 0					
TOTAL RECEPTACLE 0 X 0.50 >10kva 0					
TOTAL MISC EQUIPMENT 532913 X 1.00 532913					
TOTAL HVAC/MOTOR 74540 X 1.00 74540					
TOTAL NONCOINCIDENTAL 0 X 1.00 0					
LARGEST MOTOR 0 X 1.25 0					
TOTAL CONN LOAD 607453 TOTAL DEMAND LOAD 607453					
DIVERSIFIED DESIGN LOAD = 607453 / 480 X 1.73 = 732					

VOLT: 480 / 277 PH: 3 WIRE: 4 BY: \_\_\_\_\_  
MAIN AMPS: 400 AMP. MLO PROJECT: CCJC  
PMI NO: 278

AIC RATING: 25,000 MOUNTING: SURFACE

CKT #	LOAD DESCRIPTION	FRAME SIZE	POLES	TRIP SIZE	CONNECTED LOAD VOLT-AMPS
1	CRAC-3	100	3	50	23786
2	CRAC-4	100	3	90	45871
3	CRAC-5 (FUTURE)	100	3	90	45871
4	CRAC-6 (FUTURE)	100	3	90	45871
5	GP-1	100	3	35	11634
6	GP-2 (REDUNDANT)	100	3	35	0
7	DC-1 SECTION 1	100	3	20	6650
8	DC-1 SECTION 2	100	3	20	6650
9	DC-2 SECTION 1	100	3	20	6650
10	DC-2 SECTION 2	100	3	20	6650
11	DC-3 (FUTURE) SECTION 1	100	3	20	6650
12	DC-3 (FUTURE) SECTION 2	100	3	20	6650
13					
14					
TOTAL LOAD					212913
TOTAL LIGHTING 0 X 1.25 0 REMARKS:					
TOTAL KITCHEN 0 X 0.65 0					
TOTAL RECEPTACLE 0 X 0.50 >10kva 0					
TOTAL MISC EQUIPMENT 51534 X 1.00 51534					
TOTAL HVAC/MOTOR 161379 X 1.00 161379					
TOTAL NONCOINCIDENTAL 0 X 1.00 0					
LARGEST MOTOR 0 X 1.25 0					
TOTAL CONN LOAD 212913 TOTAL DEMAND LOAD 212913					
DIVERSIFIED DESIGN LOAD = 212913 / 480 X 1.73 = 256					



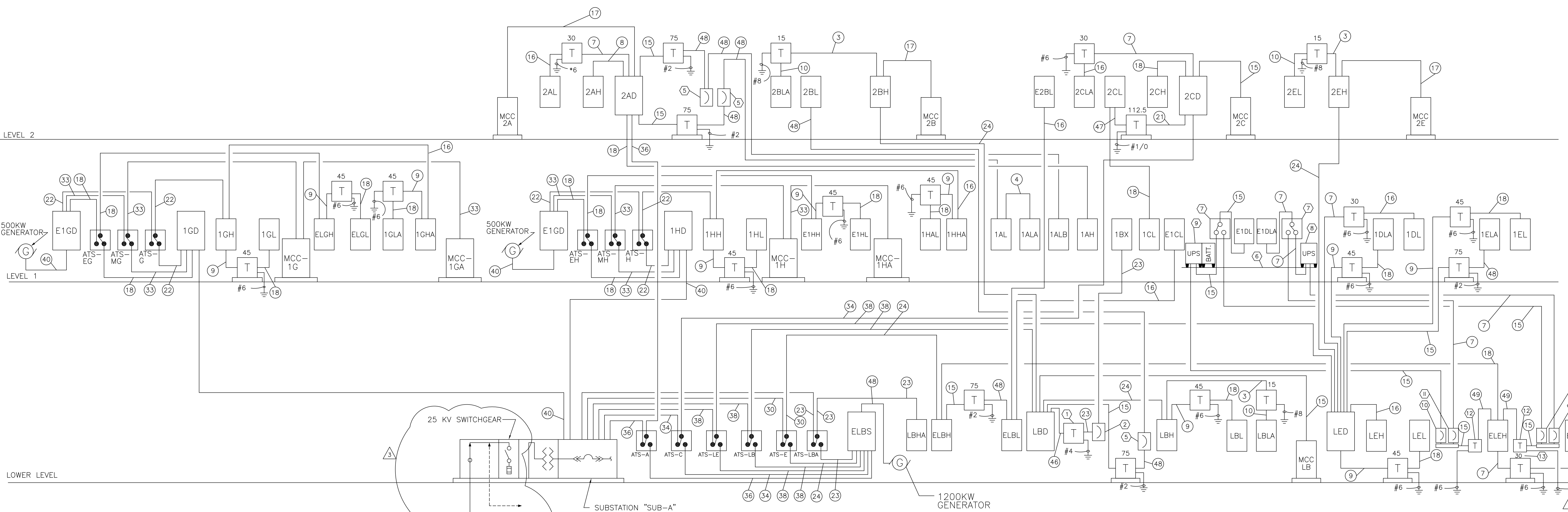
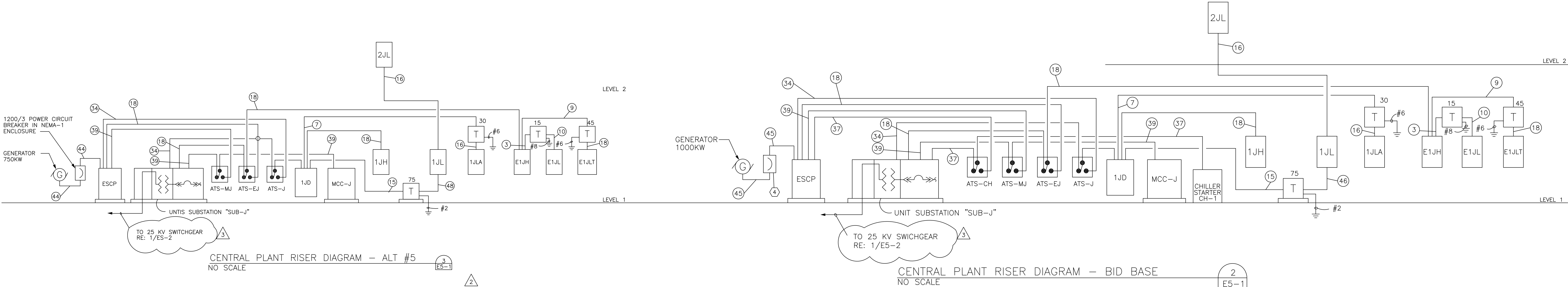
WIRE AND CONDUIT SCHEDULE	
1	3#12, 1#12 GRD. -3/4".
2	4#12, 1#12 GRD. -3/4".
3	3#10, 1#10 GRD. -3/4".
4	4#10, 1#10 GRD. -3/4".
5	3#8, 1#10 GRD. -3/4".
6	4#8, 1#8 GRD. -1".
7	3#6, 1#8 GRD. -1".
8	4#6, 1#8 GRD. -1 1/4".
9	3#4, 1#8 GRD. -1 1/4".
10	4#4, 1#8 GRD. -1 1/4".
11	3#3, 1#8 GRD. -1 1/4".
12	4#3, 1#8 GRD. -1 1/2".
13	3#2, 1#6 GRD. -1 1/2".
14	4#2, 1#6 GRD. -1 1/2".
15	3#1, 1#6 GRD. -1 1/2".
16	4#1, 1#6 GRD. -2".
17	3#1/0, 1#6 GRD. -2".
18	4#1/0, 1#6 GRD. -2".
19	3#2/0, 1#6 GRD. -2".
20	4#2/0, 1#6 GRD. -2".
21	3#3/0, 1#6 GRD. -2".
22	4#3/0, 1#6 GRD. -2 1/2".
23	3#4/0, 1#4 GRD. -2 1/2".
24	4#4/0, 1#4 GRD. -2 1/2".
25	3-250 MCM, 1#4 GRD. -2 1/2".
26	3-250 MCM, 1#4 GRD. -3".
27	3-300 MCM, 1#4 GRD. -3".
28	4-300 MCM, 1#4 GRD. -3".
29	3-350 MCM, 1#4 GRD. -3".
30	4-350 MCM, 1#4 GRD. -3 1/2".
31	3-400 MCM, 1#3 GRD. -3".
32	4-400 MCM, 1#3 GRD. -3 1/2".
33	3-500 MCM, 1#3 GRD. -3 1/2".
34	4-500 MCM, 1#3 GRD. -4".
35	3-250 MCM, 1#2 GRD. IN EACH OF 2-2 1/2".
36	4-250 MCM, 1#2 GRD. IN EACH OF 2-2 2/3".
37	3-350 MCM, 1#1 GRD. IN EACH OF 2-3".
38	4-350 MCM, 1#1 GRD. IN EACH OF 2-3 1/2".
39	3-500 MCM, 1#1/0 GRD. IN EACH OF 2-3 1/2".
40	4-500 MCM, 1#1/0 GRD. IN EACH OF 2-4".
41	3-400 MCM, 1#2/0 GRD. IN EACH OF 3-3".
42	4-400 MCM, 1#2/0 GRD. IN EACH OF 2-3 1/2".
43	3-350 MCM, 1#3/0 GRD. IN EACH OF 4-3".
44	4-350 MCM, 1#3/0 GRD. IN EACH OF 4-3".
45	4-500 MCM, 1#1/0 GRD. IN EACH OF 5-4".
46	2#1, 1#6 GRD. -1 1/4".
47	4-500 MCM, 1#1/0 GRD. -4".
48	4-250 MCM, 1#2 GRD. -3".
49	2#6, 1#6GRD. -1".

AUTOMATIC TRANSFER SWITCH SCHEDULE			
LABLE	SIZE (AMPS)	POLES	WCR RATING
ATS-A	600	4	50,000
ATS-LB	600	4	50,000
ATS-LBA	225	3	50,000
ATS-C	400	4	50,000
ATS-LE	400	4	50,000
ATS-E	400	4	50,000
ATS-G	225	4	22,000
ATS-MG	400	3	22,000
ATS-EG	150	4	22,000
ATS-H	225	4	22,000
ATS-MH	400	3	22,000
ATS-EH	150	4	22,000
ATS-J	400	4	50,000
ATS-MJ	800	3	50,000
ATS-EJ	150	4	35,000
ATS-CH	600	3	50,000

- NOTES:
- 37.5 KVA, 480V/1 PH.-120/1 PH. DRY TYPE TRANSFORMER TO SERVE PANEL "1BX".
  - 225/2 MOLDED CASE CIRCUIT BREAKER IN WALL MOUNTED NEMA-1 ENCLOSURE.
  - 400/3 MOLDED CASE CIRCUIT BREAKER IN WALL MOUNTED NEMA-1 ENCLOSURE.
  - 1600/3 POWER CIRCUIT BREAKER IN FREE-STANDING NEMA-1 ENCLOSURE.
  - 250/3 MOLDED CASE CIRCUIT BREAKER IN WALL MOUNTED NEMA-1 ENCLOSURE.
  - RAISED FLOOR IN EQUIPMENT ROOM D1613.
  - MAINTENANCE BYPASS SWITCH FURNISHED WITH UPS AND INSTALLED BY ELECTRICAL CONTRACTOR.
  - 7 KVA, 120/240V. 1PH. UPS WITH INTERNAL BATTERIES.
  - 18 KVA, 120/240 V. 1PH. UPS WITH EXTERNAL BATTERIES IN SEPARATE CABINET.
  - 90/2 MOLDED CASE CIRCUIT BREAKER IN WALL MOUNTED NEMA-1 ENCLOSURE.
  - 40/2 MOLDED CASE CIRCUIT BREAKER IN WALL MOUNTED NEMA-1 ENCLOSURE.
  - 25 KVA, 480V/1 PH. -120/240/1 PH. DRY TYPE TRANSFORMER.
  - TRANSFORMER KVA RATING - TYPICAL. TRANSFORMERS ARE 480-120/208V 3Ø 4W UNLESS NOTED OTHERWISE.

**HDR**

Henningson, Durham & Richardson, Inc.  
and  
Harvey G. Moore Architects



AD-1 Item ED-25  
Sheet E5-1.  
Add feeder type "49" to wire and Conduit Schedule as follows: 2#6, 1#8 GRD.-1". Change voltage in Notes 8 and 9 from "120/208V" to "120/240V".

AD-2 Item ED-23  
Sheet E5-1.  
Add Detail 3: Central Plant Riser Diagram - Alternate #5. Refer to attached Sketch SKE-205.

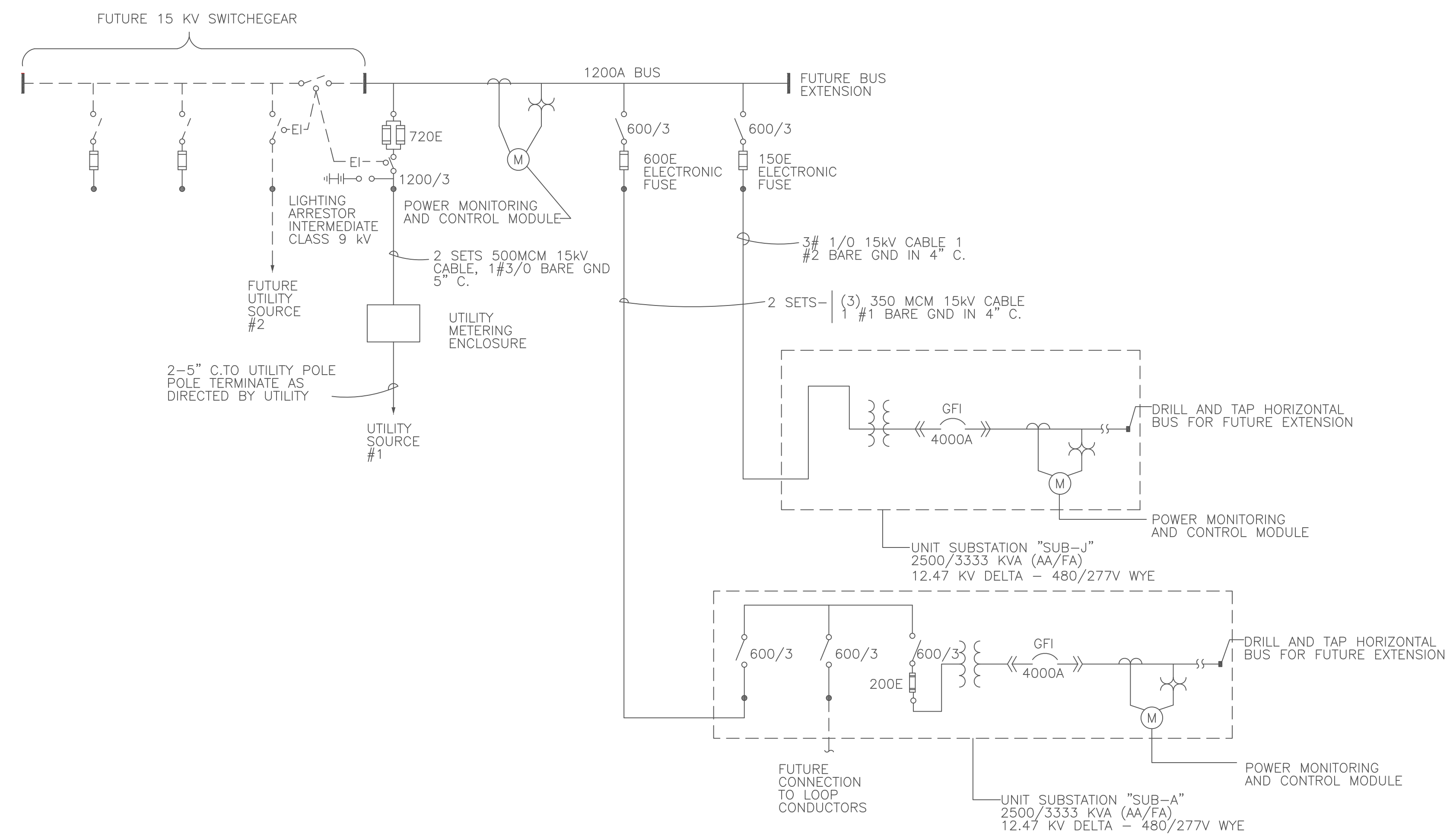
AD-1 Item ED-26  
Sheet E5-1.  
Revise detail 1/E5-1 to add two (2) kVA, 1 phase 480V - 120/ 240V transformers on Lower Level to serve 917/dispatch UPS units on Level 1. Add Notes 10, 11, 12 and 13 referring to revised Detail 1/E5-1.  
Refer to attached Sketch SKE-105.

**COLLIN COUNTY**

COLLIN COUNTY JUSTICE CENTER  
DETENTION FACILITY SHERIFFS ADMINISTRATION BUILDING  
CENTRAL POWER PLANT

ELECTRICAL RISER DIAGRAM

Project Number	06761-002-032
Date	MARCH 9, 1992
Project Manager	OLSON
Design	PRICE
Structural	SHOLL
Mechanical	GILL
Electrical	HYMAN
Site	ELLWOOD
Drawn By	
Scale	NONE
Revisions	ADDENDUM AD-1 3/31/92 ADDENDUM AD-2 4/13/92 CPR #34 12/2/92



PARTIAL FACILITY SINGLE LINE DIAGRAM

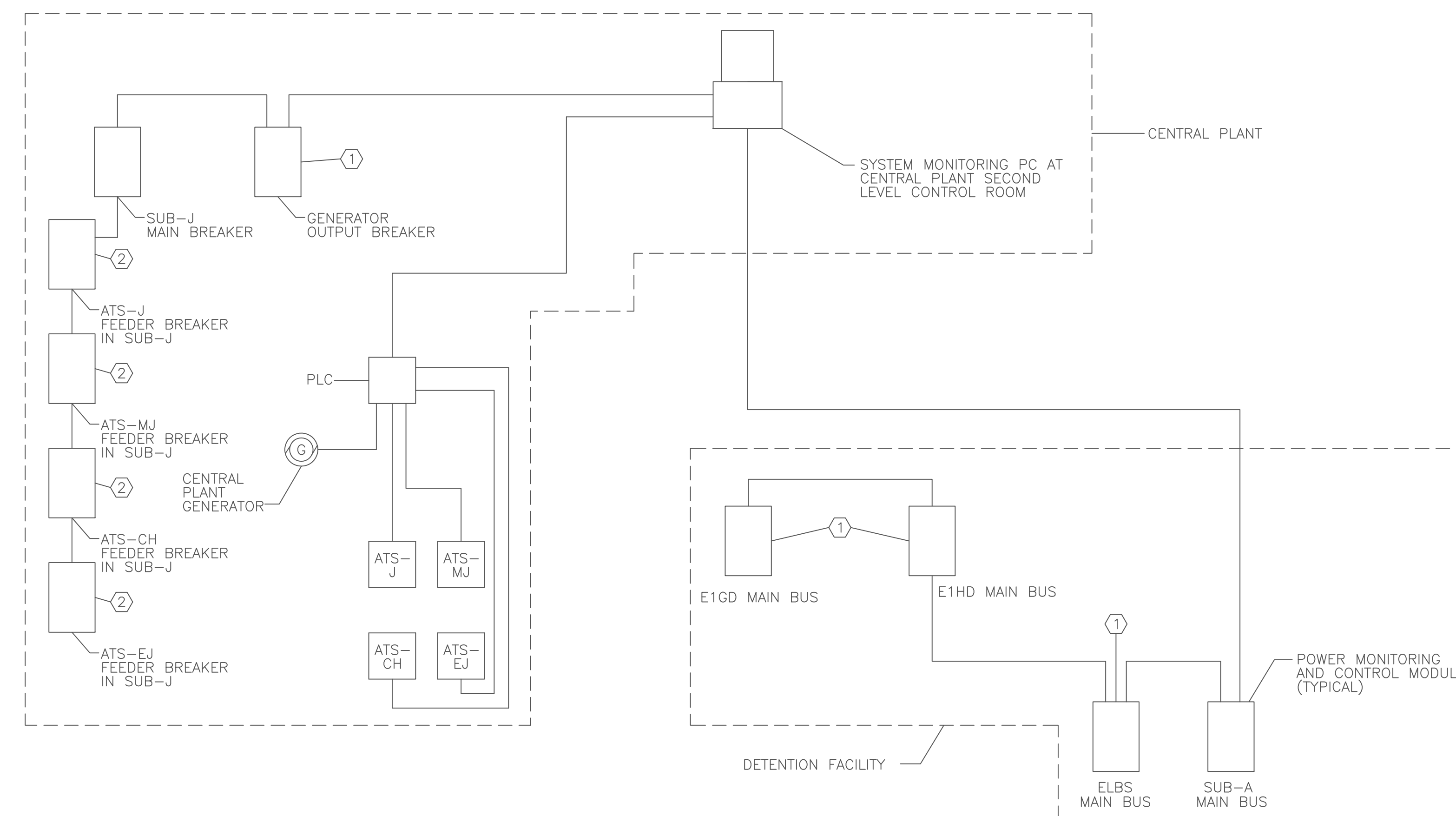
NO SCALE

1  
E5-2

AD-3 Item FD-23

Sheet E5-2  
At Detail 1/E5-2, delete reference to "Utility Metering Enclosure" and "2-5 IN C. to Utility pole. Terminate as directed by Utility." and add the following note to the service entrance cables:

"Extend 15 KV service entrance cables to TU Electric Pole as noted on Sheet E0-2 and route up pole as directed by TU Electric."



- ① PROVIDE C.T.'S AND P.T.'S AND PMCS MODULE TO MONITOR GENERATOR OUTPUT.
- ② PROVIDE C.T.'S AND P.T.'S TO MONITOR FEEDER INDICATED.

FACILITY POWER MONITORING AND CONTROL SYSTEM DIAGRAM

NO SCALE

2  
E5-2

AD-3 Item FD-12

Sheet E5-2  
Detail 2, add power monitoring and control module for 15 kv switchgear to diagram adjacent to generator output breaker in Central Plant. Provide interconnecting data cable in conduit as required.

AD-2 Item FD-24

Sheet E5-2  
Detail 2: As part of Alternate #5, delete connection between PLC and ATS-CH and delete monitoring CT's and PT's for ATS-CH feeder breaker.



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COLLIN COUNTY  
JUSTICE CENTER  
DETENTION FACILITY SHERIFFS ADMINISTRATION BUILDING  
CENTRAL POWER PLANT

FACILITY SINGLE LINE AND RISER DIAGRAMS

FOR BIDDING AND CONSTRUCTION

Project Number

06761-002-032

Date

MARCH 9, 1992

Project Manager

OLSON

Design

PRICE

Structural

SHOLL

Mechanical

GILL

Electrical

HYMAN

Site

ELLWOOD

Drawn By

Scale

NONE

Revisions

Sheet Number

E5-2