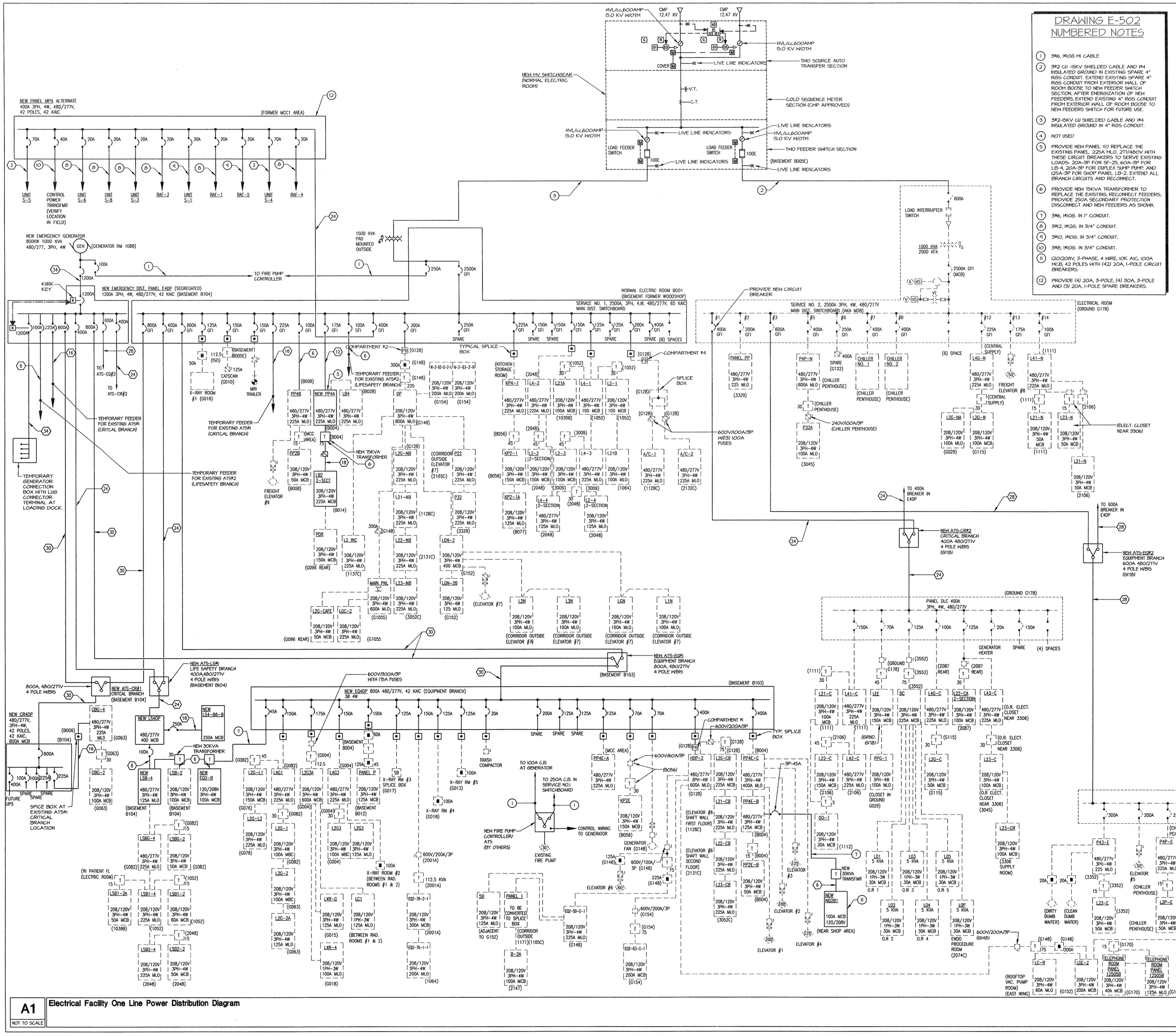

DRAWING E-502 NUMBERED NOTES

1. 3#6, 1#10G MI CABLE
2. 3#2 CU -15KV SHIELDED CABLE AND 1#4 INSULATED GROUND IN EXISTING SPARE 4" RGS CONDUIT. EXTEND EXISTING SPARE 4" RGS CONDUIT FROM EXTERIOR WALL OF ROOM B005E TO NEW FEEDER SWITCH SECTION. AFTER ENERGIZATION OF NEW FEEDERS, EXTEND EXISTING 4" RGS CONDUIT FROM EXTERIOR WALL OF ROOM B005E TO NEW FEEDERS SWITCH FOR FUTURE USE.
3. 3#2-15KV CU SHIELDED CABLE AND 1#4 INSULATED GROUND IN 4" RGS CONDUIT.
4. NOT USED
5. PROVIDE NEW PANEL TO REPLACE THE EXISTING PANEL 225A MLO, 277/480V WITH THESE CIRCUIT BREAKERS TO SERVE EXISTING LOADS: 20A-3P FOR SF-25, 60A-3P FOR LB-4, 20A-3P FOR DUPLEX SUMP PUMP, AND 125A-3P FOR SHOP PANEL LB-2. EXTEND ALL BRANCH CIRCUITS AND RECONNECT.
6. PROVIDE NEW 75KVA TRANSFORMER TO REPLACE THE EXISTING, RECONNECT FEEDERS. PROVIDE 250A SECONDARY PROTECTION DISCONNECT AND NEW FEEDERS AS SHOWN.
7. 3#6, 1#10G, IN 1" CONDUIT.
8. 3#12, 1#12G, IN 3/4" CONDUIT.
9. 3#10, 1#10G, IN 3/4" CONDUIT.
10. 3#8, 1#10G, IN 3/4" CONDUIT.
11. 120/208V, 3-PHASE, 4 WIRE, 10K AIC, 100A MCB, 42 POLES WITH (42) 20A, 1-POLE CIRCUIT BREAKERS.
12. PROVIDE (4) 20A, 3-POLE, (4) 30A, 3-POLE AND (3) 20A, 1-POLE SPARE BREAKERS.

LEGEND OF FEEDER SIZES-COPPER CONDUCTORS

SYMBOL	CONDUCTORS (3 PHASE, 3 WIRE) WITH GROUND	RACEWAY SIZE	CONDUCTORS (3 PHASE, 4 WIRE) WITH GROUND	RACEWAY SIZE	NOMINAL AMPERE RATING
(1)	3#4 & 1#10 GND	1"			60
(2)			4#4 & 1#10 GND	1 1/4"	
(3)	3#4 & 1#8 GND	1"			70
(4)			4#4 & 1#8 GND	1 1/4"	
(5)	3#1 & 1#8 GND	1 1/4"			100
(6)			4#1 & 1#8 GND	1 1/2"	
(7)	3#1/0 & 1#6 GND	1 1/2"			125
(8)			4#1/0 & 1#6 GND	2"	
(9)	3#1/0 & 1#6 GND	1 1/2"			150
(10)			4#1/0 & 1#6 GND	2"	
(11)	3#2/0 & 1#6 GND	2"			175
(12)			4#2/0 & 1#6 GND	2"	
(13)	3#3/0 & 1#6 GND	2"			200
(14)			4#3/0 & 1#6 GND	2"	
(15)	3#4/0 & 1#4 GND	2"			225
(16)			4#4/0 & 1#4 GND	2 1/2"	
(17)	3-250 KCMIL & 1#4 GND	2 1/2"			250
(18)			4-250 KCMIL & 1#4 GND	2 1/2"	
(19)	3-350 KCMIL & 1#4 GND	3"			300
(20)			4-350 KCMIL & 1#4 GND	3"	
(21)	3-500 KCMIL & 1#3 GND	3"			350
(22)			4-500 KCMIL & 1#3 GND	3 1/2"	
(23)	3-500 KCMIL & 1#3 GND	3"			400
(24)			4-500 KCMIL & 1#3 GND	3 1/2"	
(25)	6-250 KCMIL & 2#2 GND	(2)2 1/2"			500
(26)			8-250 KCMIL & 2#2 GND	(2)2 1/2"	
(27)	6-350 KCMIL & 2#1 GND	(2)3"			600
(28)			8-350 KCMIL & 2#1 GND	(2)3"	
(29)	6-500 KCMIL & 2#1/0 GND	(3)3"			800
(30)			8-500 KCMIL & 2#1/0 GND	(2)3 1/2"	
(31)	9-400 KCMIL & 2#1/0 GND	(3)3"			1000
(32)			12-400 KCMIL & 3#2/0 GND	(3)3"	
(33)	9-400 KCMIL & 2#2/0 GND	(3)3 1/2"			1200
(34)			12-600 KCMIL & 3#3/0 GND	(3)4"	
(35)	12-600 KCMIL & 4#4/0 GND	(4)3 1/2"			1600
(36)			16-600 KCMIL & 4#4/0 GND	(4)4"	
(37)	15-600 KCMIL & 5-250 KCMIL GND	(5)3 1/2"			2000
(38)			20-600 KCMIL & 5-250 KCMIL GND	(5)4"	
(39)	18-600 KCMIL & 6-350 KCMIL GND	(6)3 1/2"			2500
(40)			24-600 KCMIL & 6-350 KCMIL GND	(6)4"	
(41)	24-500 KCMIL & 8-400 KCMIL GND	(8)3"			3000
(42)			32-500 KCMIL & 8-400 KCMIL GND	(8)3 1/2"	
(43)	24-600 KCMIL & 8-500 KCMIL GND	(8)3 1/2"			3200
(44)			32-600 KCMIL & 8-500 KCMIL GND	(8)4"	
(45)	27-600 KCMIL & 9-500 KCMIL GND	(9)3 1/2"			3500
(46)			36-600 KCMIL & 9-500 KCMIL GND	(9)4"	
(47)	30-600 KCMIL & 10-500 KCMIL GND	(10)3 1/2"			4000
(48)			40-600 KCMIL & 10-500 KCMIL GND	(10)4"	

A1	Electrical Facility One Line Power Distribution Diagram
NOT TO SCALE	

Monday, August 31, 2009 - 1:35:12 PM - mbenner

Maine Medical Center
centered around you

Generator MV Gear Replacement

DAI

DiGIORGIO ASSOCIATES INC.

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CONSULTANT:

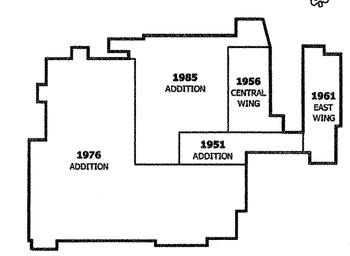
ISSUE:

LETTER:	DATE:	DESCRIPTION:
A	05/08/09	100% OWNER REVIEW SET
B	08/13/09	ISSUED FOR BID

REVISION:

NO:	DATE:	DESCRIPTION:

KEY PLAN:



DRAWING TITLE:
ELECTRICAL ONE LINE DIAGRAM

DRAWN BY: MEB
CHECKED BY: AG
SCALE: AS NOTED
PROJECT NO.: 093274.00.E

SEAL:

DRAWING NO.:
E-502

CAD FILE NAME:
N:\Dwg - Engineering\093274.00.E MMC - Generator - MV Gear Replacement\Project Sheets\Drawing Set\Electrical\E-502 ELECTRICAL ONE LINE DIAGRAM-ALTERNATE.dwg