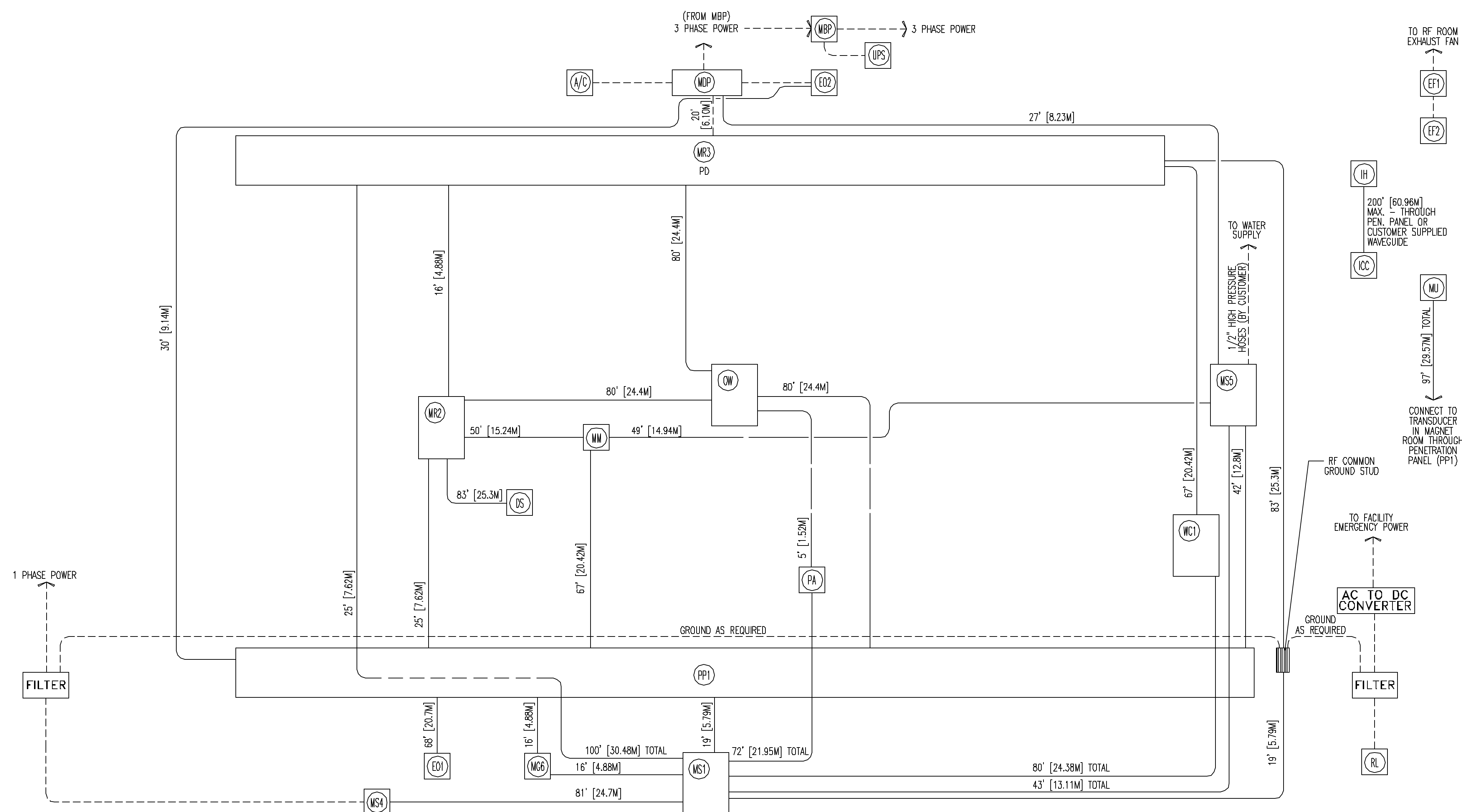


INTERCONNECT DIAGRAM



NOTE: CABLE LENGTH DATA
 THE USEABLE LENGTHS OF CABLES DISPLAYED ARE FOR CABLE KIT M3143PE. IF A DIFFERENT CABLE KIT IS REQUIRED, REFER TO THE PRE-INSTALLATION DIRECTION LISTED ON SHEET C1 FOR THE LENGTHS OF CABLES IN THAT KIT.

MINIMUM BENDING RADIUS EXISTS FOR CERTAIN CABLE GROUPS. PLEASE REFER TO THE PRE-INSTALLATION MANUAL FOR SPECIFICATIONS FOR ALL CABLES.
 A PARTIAL LIST INCLUDES:
 10" BETWEEN THE MR1 AND PP1
 10" BETWEEN PP1 AND MS1
 8" BETWEEN THE MS5 AND MS1
 7" BETWEEN SYSTEM COOLING CABINET AND MS1.

CABLE SELECTION

BASED UPON THE EQUIPMENT LAYOUT, CABLE KIT M3335NJ WILL NEED TO BE ORDERED.

LOCATION	INTERCONNECTS	RELATIVE LENGTHS BY CATALOG		
		M3335NJ	M3335NK	M3335NL
L1	INTERCONNECTS BETWEEN PENETRATION PANEL (PP1) AND COMPONENTS IN THE MAGNET ROOM AND WITHIN MAGNET ROOM BETWEEN COMPONENTS	SHORT	SHORT	LONG
L2	INTERCONNECTS BETWEEN PENETRATION PANEL (PP1) AND COMPONENTS IN THE EQUIPMENT ROOM	SHORT	LONG	SHORT
L1/L2	INTERCONNECTS BETWEEN MAGNET ROOM AND EQUIPMENT ROOM COMPONENTS, INCLUDES INTERCONNECTS ROUTED THROUGH PP1 WAVEGUIDES AND INTERCONNECTS WHICH LENGTH PROVIDED IS CUT AT SITE AND SHARED BETWEEN MAGNET AND EQUIPMENT ROOMS	SHORT	LONG	LONG
L3	INTERCONNECTS BETWEEN COMPONENTS WITHIN EQUIPMENT ROOM	SAME LENGTH FOR ALL CATALOGS		
L4	INTERCONNECTS BETWEEN OPERATORS WORKSPACE AND PENETRATION PANEL	SAME LENGTH FOR ALL CATALOGS		
L5	INTERCONNECTS BETWEEN OPERATORS WORKSPACE AND COMPONENTS IN THE EQUIPMENT ROOM	SAME LENGTH FOR ALL CATALOGS		

POWER SPECIFICATIONS

SIGNA MR 1.5/3.0T SYSTEMS (REV. DATE 05/23/06)

VOLTAGE
 PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS. RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, 50 OR 60 Hz.
 RECOMMENDED POWER SUPPLY: WYE-CONNECTED OR DELTA-CONNECTED (GROUNDED DELTA).

MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF THE RANGES IN TABLE A.

TABLE A ALLOWABLE INPUT VOLTAGES/CURRENT DEMAND

NOMINAL VOLTAGE	ABSOLUTE RANGE	CURRENT (AMPS)		MINIMUM STANDARD OVERCURRENT PROTECTION **
		MAX MOMENTARY	CONTINUOUS	
380	342-418	113	82	125-A
400	360-440	107	78	100-A
415	374-456	103	75	100-A
480	432-528	89	65	90-A

** OVERCURRENT PROTECTION SIZED FOR 125% CONTINUOUS CURRENT. (CALCULATIONS BASED UPON NOMINAL VOLTAGE).

PHASE-BALANCE.
 PHASE-TO-PHASE VOLTAGES MUST BE WITHIN 2 PERCENT OF THE LOWEST PHASE-TO-PHASE VOLTAGE. MAXIMUM ALLOWABLE TRANSIENT VOLTAGE EXCURSIONS ARE 1.8 PERCENT OF RATED LINE VOLTAGE AT A MAXIMUM DURATION OF 1 CYCLE AND FREQUENCY OF 10 TIMES PER HOUR.

VOLTAGE TRANSIENT OR IMPULSE ON THE INCOMING POWER MUST BE HELD TO A MINIMUM. TRANSIENTS CAUSED BY LIGHTNING, SURGES, LOAD SWITCHING, STATIC ELECTRICITY ETC. CAN CAUSE SCAN ABORTS OR, IN EXTREME INSTANCES, COMPONENT FAILURE IN THE COMPUTER SUBSYSTEM.

POWER DEMAND
 MAXIMUM POWER DEMAND = 74 KVA
 74 KVA CONSISTING OF 65 KVA FOR PDU + 9 KVA (CONTINUOUS OPERATION) FOR SHIELD/CRYO COOLER CABINET.

TABLE B MAXIMUM POWER DEMAND.

DEMAND	SIGNA SYSTEM
kva*	74
POWER FACTOR AT	0.9

* DEMAND INCLUDES POWER FOR ENTIRE MR SYSTEM. LINE VOLTAGE REGULATION AT MAXIMUM POWER DEMAND MUST BE LESS THAN OR EQUAL TO 2 PERCENT OR 4 PERCENT FROM POWER SOURCE.

DISTRIBUTION TRANSFORMER
 FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 150 KVA. REGULATED TRANSFORMER IS NOT REQUIRED UNLESS VOLTAGE CHANGES EXCEED ±10% OVER A PERIOD OF 1 HOUR OR LONGER.

REFER TO DIRECTION 2223170 FOR ADDITIONAL INFORMATION.

ELECTRICAL NOTES

- NOTE 1: ALL WIRES SPECIFIED SHALL BE STRANDED, FLEXIBLE, THERMO-PLASTIC, COLOR CODED, COPPER ONLY, CUT 10 FOOT LONG AT OUTLET BOXES, DUCT TERMINATION POINTS OR STUBBED CONDUIT ENDS, UNLESS OTHERWISE SPECIFIED. ALL CONDUCTORS, POWER, SIGNAL AND GROUND, MUST BE RUN IN CONDUIT OR DUCT SYSTEM. ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS. WIRE RUNS MUST BE CONTINUOUS COPPER AND FREE FROM SPLICES.
- NOTE 2: WIRE SIZES GIVEN ARE FOR USE OF EQUIPMENT. LARGER SIZES MAY BE REQUIRED BY LOCAL CODES.
- NOTE 3: IT IS RECOMMENDED THAT ALL WIRES BE COLOR CODED, AS REQUIRED IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
- NOTE 4: CONDUIT SIZES SHALL BE VERIFIED BY THE ARCHITECT, ELECTRICAL ENGINEER OR CONTRACTOR, IN ACCORDANCE WITH LOCAL OR NATIONAL CODES.
- NOTE 5: CONVENIENCE OUTLETS ARE NOT ILLUSTRATED. THEIR NUMBER AND LOCATION ARE TO BE SPECIFIED BY OTHERS. LOCATE AT LEAST ONE CONVENIENCE OUTLET CLOSE TO THE SYSTEM CONTROL, THE POWER DISTRIBUTION UNIT AND ONE ON EACH WALL OF THE PROCEDURE ROOM. USE HOSPITAL APPROVED OUTLET OR EQUIVALENT.
- NOTE 6: GENERAL ROOM ILLUMINATION IS NOT ILLUSTRATED. CAUTION SHOULD BE TAKEN TO AVOID EXCESSIVE HEAT FROM OVERHEAD SPOTLIGHTS. DAMAGE CAN OCCUR TO CEILING MOUNTING COMPONENTS AND WIRING IF HIGH WATTAGE BULBS ARE USED. RECOMMEND LOW WATTAGE BULBS NO HIGHER THAN 75 WATTS AND USE DIMMER CONTROLS (EXCEPT MR). DO NOT MOUNT LIGHTS DIRECTLY ABOVE AREAS WHERE CEILING MOUNTED ACCESSORIES WILL BE PARKED.
- NOTE 7: ROUTING OF CABLE DUCTWORK, CONDUITS ETC., OTHER THAN SHOWN ON THIS DRAWING MAY RESULT IN THE NEED FOR GREATER THAN STANDARD CABLE LENGTHS (REFER TO THE INTERCONNECTION DIAGRAM FOR MAXIMUM USABLE LENGTHS POINT TO POINT).
- NOTE 8: CONDUIT TURNS TO HAVE LARGE, SWEEPING BENDS WITH MINIMUM RADIUS IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
- NOTE 9: A SPECIAL GROUNDING SYSTEM IS REQUIRED IN ALL PROCEDURE ROOMS BY SOME NATIONAL AND LOCAL CODES. IT IS RECOMMENDED IN AREAS WHERE PATIENTS MIGHT BE EXAMINED OR TREATED UNDER PRESENT, FUTURE, OR EMERGENCY CONDITIONS. CONSULT THE GOVERNING ELECTRICAL CODE AND CONFER WITH APPROPRIATE CUSTOMER ADMINISTRATIVE PERSONNEL TO DETERMINE THE AREAS REQUIRING THIS TYPE OF GROUNDING SYSTEM.
- NOTE 10: THE MAXIMUM POINT TO POINT DISTANCES ILLUSTRATED ON THIS DRAWING MUST NOT BE EXCEEDED.
- NOTE 11: PHYSICAL CONNECTION OF PRIMARY POWER TO GE EQUIPMENT IS TO BE MADE BY A QUALIFIED ELECTRICAL CONTRACTOR WITH THE SUPERVISION OF A GE REPRESENTATIVE. THE GE REPRESENTATIVE WOULD BE REQUIRED TO IDENTIFY THE PHYSICAL CONNECTION LOCATION, AND INSURE PROPER HANDLING OF GE EQUIPMENT.

DIAGRAM KEY

----	CUSTOMER/CONTRACTOR SUPPLIED WIRING. ROUTE IN ADEQUATE CONDUIT OR RACEWAY.
—	GE FURNISHED CABLE RUNS. ROUTE IN EMPTY CONDUIT OR RACEWAY.
59' [18M]	MAXIMUM RUN LENGTH BETWEEN JUNCTION POINTS. Feet [Meters]

GE Healthcare Technologies
 Installation Services Design Center
 Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL SPECIFICATIONS
 MODALITY TYPE: 1.5T SIGNA HDX

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS. ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS IN PREPARING THIS PLAN. EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL CONSTRUCTION PURPOSES. HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
 MERCY HOSPITAL
 FORE RIVER
 PORTLAND, MAINE

PROJECT	REVISION
065904	00
DATE:	10/4/06
DRAWN BY:	PMM
CHECKED BY:	PMM
QUOTE NO:	KX1CB7
QT. DATE:	9/25/06

REVISION HISTORY:

SHEET
E2