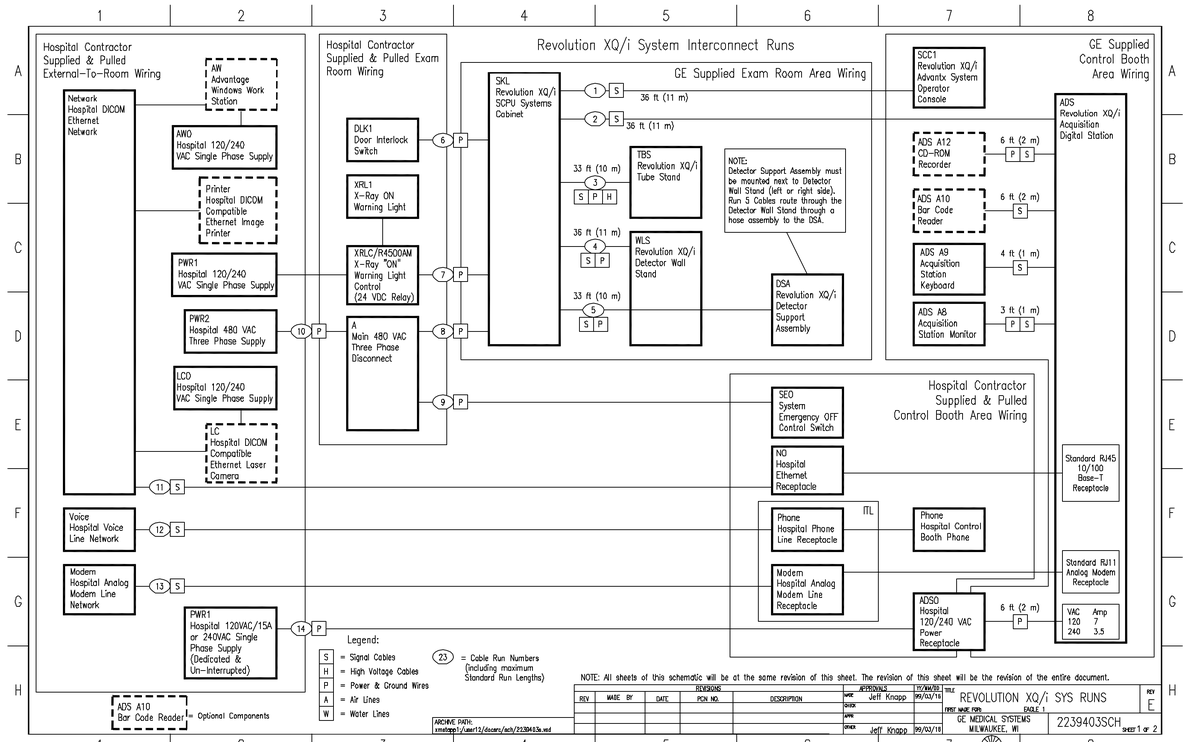
INTERCONNECT DIAGRAM



GE Supplied Cable List

Run #	MIS #	Standard Run Lengths (Part of Every Order) Feet	Meter	Cable Part #	Non-Standard Run Lengths (Additional Cost on Order) Catalog #	Feet	Meter	Cable Part #	Cable Information: Cable Description	UL Style	Cable Class	Volt Rate	Act Volt	Temp Rate (C)	Diameter Inch	mm	One End Information: Desig	Used in Cabinet Feet	M	Plug Type	Plug Size Diam Inch	mm	Width Inch	mm	Length Inch	mm	Depth Inch	mm	Other End Information: Desig	Used in Cab Feet	M	Plug Type	Plug Size Diam Inch	mm	Width Inch	mm	Length Inch	mm	Depth Inch	mm
1	115944	38	11	2216136-3	S1000LA	52	15	2239808-2	System Console Cable	2464	J	300	120	80	0.87	17	SKL	10	3	15 Pin Sub-D Female			0.83	15	1.73	44	1.07	50	SCC1	4	1	Mixed Block Female			1.06	27	2.83	72	3.38	86
																				15 Pin Sub-D Male			0.83	15	1.57	40	2.05	52												
																				3 P Male/Lock			0.55	14	1.18	30	1.10	28												
																				Fiber Optic DP	0.31	8																		
																				Ground Terminal																				
2	115724	38	11	2216135		52	15	2230808	Fiber Optic	GINP	N/A	N/A	0	70	0.12	3	SKL	10	3	Duplex Fiber			0.38	10	0.91	23	2.05	52	ADS	4	1	Duplex Fiber			0.38	10	0.91	23	2.05	52
3	115860	33	10	2216137	S1000LB	49	15	2230809	AC Pwr Cord	E3482	SJT	300	120	90	0.35	9	SKL	7	2	Twist Lock 15A	1.38	35					2.76	70	TBS	2	1	IEC320 C13 15A			0.75	19	1.06	27	2.17	55
	115824			2216137-2					Ground Wire	1028		600	0	105	0.24	6		7	2	Bare Lead	0.24	6											0.24	6						
	115964			2216137-3					Stator Cable	2516	2	600	600	105	0.51	13		8	3	12 Pin Male/Lock			0.91	23	1.18	30	1.38	35		2	1	12 Pin Male/Lock			0.91	23	1.18	30	1.38	35
	115825A			2216137-4					HV Cable	GE 120	DMVC	75kV	75kV	90	0.87	17		13	4	HV Connector	2.44	82					8.27	210		13	4	HV Connector	2.44	82					8.27	210
	115826A			2216137-5					HV Cable	GE 120	DMVC	75kV	75kV	90	0.87	17		13	4	HV Connector	2.44	82					8.27	210		13	4	HV Connector	2.44	82					8.27	210
	115874			2216137-6					24 Conductor	2464	J	300	24 VDC	80	0.51	13		10	3	37 Pin Sub-D Female			0.71	18	0.28	7	1.65	42		2	1	37 Pin Sub-D Female			0.71	18	0.28	7	1.65	42
4	115734	38	11	2216138	S1000LC	49	15	2230810	Fiber Optic	GINP	N/A	N/A	0	70	0.12	3	SKL	10	3	Duplex Fiber			0.38	10	0.91	23	2.05	52	WLS	2	1	Duplex Fiber			0.38	10	0.91	23	2.05	52
	115744			2216138-2					8 Conductor	2464	2	300	24 VDC	80	0.35	9	SKL	10	3	9 Pin Sub-D Female			0.53	15	1.34	34	2.20	56	WLS	2	1	9 Pin Sub-D Female			0.53	15	1.34	34	2.20	56
	115735A			2216138-3					27 Conductor	2464	2	150	24 VDC	80	0.39	10	SKL	10	3	25 Pin Sub-D Female			0.58	15	1.65	42	2.65	68	WLS	2	1	25 Pin Sub-D Female			0.58	15	1.65	42	2.65	68
	115815A			2216138-5					Ground Wire	1028		600	0	105	0.24	6	SKL	7	2	Bare Lead	0.24	6							TBS	2	1	Bare Lead	0.24	6						
	115769A			2216138-7					AC Pwr Cord	E3482	SJT	300	120	90	0.35	9	SKL	7	2	Twist Lock 15A	1.38	35					2.76	70	TBS	2	1	IEC320 C13 15A			0.75	19	1.06	27	2.17	55
5	115766A	33	10	2216138-4				2230810-4	8 Conductor	2464	2	300	24 VDC	80	0.31	8	SKL	10	3	9 Pin Sub-D Male			0.58	15	1.38	35	2.20	56	DSA	8	2	9 Pin Sub-D Male			0.58	15	1.38	35	2.20	56
	115771A			2216138-6				2230810-5	27 Conductor	2464	2	150	24 VDC	80	0.39	10	SKL	10	3	25 Pin Sub-D Male			0.58	15	1.57	40	2.68	68	DSA	8	2	25 Pin Sub-D Female			0.58	15	1.57	40	2.68	68
	115781A			2216138-8				2230810-8	AC Pwr Cord	E3482	SJT	300	120	90	0.35	9	SKL	7	2	Twist Lock 15A	1.38	35					2.76	70	DSA	8	2	IEC320 C13 15A			0.75	19	1.06	27	2.17	55

Hospital Electrical Contractor Supplied Wiring

Run #	Quantity	Min. Wire Size AWG	mm2	Description	Cable Take-Up Inside GE Cabinet Feet	Meters	Notes
6	3 Wires	14	2	Exam Room Door Interlock Switch to SKL Systems Cabinet	10	3	Black, White, and Green wires.
7	3 Wires	14	2	X-Ray Warning Light 24 VDC Control to SKL Systems Cabinet	10	3	Black, White, and Green wires. GE offers R4500AM Kit to provide 24 VDC control of 120/240 VAC Warining Light Indicator.
8	3 Power Wires	See Notes		Room 480 VAC Disconnect to SKL Systems Cabinet	10	3	See Feeder Tables for recommended wires sizes.
	1 Ground Wire	1/0	50				
	1 Neutral Wire	See Notes					
9	3 Wires	14	2	Room 480 VAC Disconnect to System Emergency OFF (SEO)	Not Applicable		Black, White, and Green wires.
10	3 Power Wires	See Notes		Room 480 VAC Disconnect to Hospital Power Source			See Feeder Tables for recommended wires sizes.
	1 Ground Wire	1/0	50				
	1 Neutral Wire	See Notes					
11	1 Ethernet Wire	See Notes		Hospital Ethernet Network to Aquisition Digital Station	2	1	ADS equipped with Standard RJ45 10/100 Base-T Receptacle. Category 5 Cable required.
12	1 Telephone Wire	See Notes		Hospital Telephone Voice Network to Control Booth Telephone			Standard RJ11 Telephone Receptacle & Telephone. This line may be routed through a telephone switchboard.
13	1 Telephone Wire	See Notes		Hospital Telephone Analog Modem Network to Aquisition Digital Station			ADS equipped with Standard RJ11 Analog Telephone Receptacle. Line must be a direct number from outside the facility. Do not route this line through a telephone switchboard. Telephone line operating charges are paid by Hospital.
14	1 Power Wire	14	2	Control Booth 120 VAC / 15 A Receptacle to Hospital Single Phase 120 VAC Power Source, or... Control Booth 240 VAC / 10 A Receptacle to Hospital Single Phase 240 VAC Power Source.			Power Supply source must be un-interrupted.
	1 Ground Wire	14	2				
	1 Neutral Wire	14	2				

NOTE: All sheets of this schematic will be at the same revision of this sheet. The revision of this sheet will be the revision of the entire document.
REVISIONS
REV | MADE BY | DATE | PCN NO. | DESCRIPTION
APPROVALS
MFG Jeff Knapp 99/03/18
DESIGN
APPR
OTHER Jeff Knapp 99/03/18
TITLE REVISION XQ/i SYS RUNS
FIRST MADE FOR: EAGLE 1
GE MEDICAL SYSTEMS MILWAUKEE, WI
2239403SCH
SHEET 2 OF 2
REV E
ARCHIVE PATH: xmetapp1:/user12/docsrc/sch/2239403a.wsd

POWER SPECIFICATIONS

ADVANTX HF 65/REVOLUTION 65 REV. DATE: 02/22/06

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

REQUIRED POWER SUPPLY: WYE-CONNECTED.

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

TABLE A ALLOWABLE INPUT VOLTAGES/ CURRENT DEMAND

NOMINAL VOLTAGE	NORMAL RANGE ±10 PERCENT	CURRENT (AMPS) MAX. MOMENTARY	CURRENT (AMPS) CONTINUOUS	MINIMUM STANDARD OVERCURRENT PROTECTION
380	342-418	151	15.8	80-A
400	360-440	143	15	80-A
420	378-462	137	14.5	70-A
440	396-484	130	13.6	70-A
460	414-506	125	13	70-A
480	432-528	119	12.5	60-A

ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE

NOTE

LOW LINE CONDITIONS MAY INHIBIT SOME HIGH kVa TECHNIQUES. THE GENERATOR AUTOMATICALLY ESTABLISHES THESE INHIBITS BASED ON ACTUAL LINE CONDITIONS AND SYSTEM REGULATION.

PHASE-BALANCE.

PHASE-TO-PHASE VOLTAGES MUST BE WITHIN ±2 PERCENT OF THE LOWEST PHASE-TO-PHASE VOLTAGE. MAXIMUM ALLOWABLE TRANSIENT VOLTAGE EXCURSIONS ARE 2.5 PERCENT OF RATED LINE VOLTAGE AT A MAXIMUM DURATION OF 5 CYCLES AND FREQUENCY OF 10 TIMES PER HOUR.

POWER DEMAND

CONTINUOUS POWER DEMAND = 10.4KVA. (MAX. DEMAND = 99.2 KVA)

TABLE B MAXIMUM MOMENTARY POWER DEMAND.

DEMAND	ADVANTX HF 65
kVa *	99.2
POWER FACTOR AT	0.73
mA	800
kVp	80

* DEMAND INCLUDES POWER FOR ENTIRE ADVANTX SYSTEM. LINE VOLTAGE REGULATION AT MAXIMUM POWER DEMAND MUST BE LESS THAN OR EQUAL TO 6 PERCENT.

DISTRI-BUTION TRANS-FORMER

FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 112.5 KVA.

ELECTRICAL NOTES

NOTE 1: ALL WIRES SPECIFIED SHALL BE COPPER STRANDED, FLEXIBLE, THERMO-PLASTIC, COLOR CODED, CUT 10 FOOT LONG AT OUTLET BOXES, DUCT TERMINATION POINTS OR STUBBED CONDUIT ENDS. ALL CONDUCTORS, POWER, SIGNAL AND GROUND, MUST BE RUN IN A CONDUIT OR DUCT SYSTEM. ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS. WIRE RUNS MUST BE CONTINUOUS COPPER STRANDED AND FREE FROM SPLICES. ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.

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., MUST RUN DIRECT AS POSSIBLE OTHERWISE 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 CUSTOMERS 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.

GE Healthcare
IS Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL SPECIFICATIONS
MODALITY TYPE: REVOLUTION XQi

PROJECT TITLE:
VA BROOKLYN MEDICAL CENTER
BROOKLYN, NEW YORK

PROJECT	REVISION
111639	00

DATE: 01.Jul.11
DRAWN BY: CPC
CHECKED BY: REK

REVISION HISTORY:

SHEET E2

This drawing is based on Sketch No.: 11mee047 VA Brooklyn QXi revision

RQ - 119540 PIM R3