

SCALE: 1/4" = 1'-0"

ELECTRICAL PLAN

EXISTING CEILING HEIGHT = 9'-2"

FEEDER TABLE ADVANTX HF 65/REVOLUTION 65 REV. DATE: 12/23/05

* CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
 * RECOMMENDED FEEDER SIZES FROM DISTRIBUTION TRANSFORMER TO THE POWER CABINET.
 * NEUTRAL MUST BE TERMINATED INSIDE THE MAIN DISCONNECT PANEL AND NOT AT ANY SYSTEM CABINET.
 * THE GROUNDING CONDUCTOR (1) WILL BE OF SAME SIZE AS THE FEEDER WIRES WITH A 1/0 MINIMUM. THIS GROUND WILL RUN FROM THE EQUIPMENT BACK TO THE FACILITY POWER SOURCE/MAIN GROUNDING POINT AND ALWAYS TRAVEL IN THE SAME CONDUIT WITH THE FEEDERS AND NEUTRAL.
 * * MINIMUM WIRE SIZE FOR CIRCUIT BREAKER, BASED ON RECOMMENDED OVERCURRENT PROTECTION.
 * FOR A FULL SYSTEM UPS, REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE					
	342-418 380	380-440 400	378-402 400	396-484 440	414-506 460	432-528 480
50	* 4 (1/0)	* 4 (1/0)	* 4 (1/0)	* 4 (1/0)	* 4 (1/0)	* 4 (1/0)
100	3 (1/0)	4 (1/0)	4 (1/0)	4 (1/0)	4 (1/0)	* 4 (1/0)
150	1 (1/0)	2 (1/0)	2 (1/0)	3 (1/0)	3 (1/0)	4 (1/0)
200	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	2 (1/0)	2 (1/0)
250	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)
300	3/0 (3/0)	3/0 (3/0)	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)	1/0 (1/0)
350	4/0 (4/0)	3/0 (3/0)	3/0 (3/0)	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)
400	250M (250M)	4/0 (4/0)	4/0 (4/0)	3/0 (3/0)	3/0 (3/0)	2/0 (2/0)

- ELECTRICAL OUTLET LEGEND**
 CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS.
 HEIGHT ABOVE FLOOR DETERMINED BY LOCAL CODES UNLESS OTHERWISE SPECIFIED.
- ⊕ DUPLEX HOSPITAL GRADE, DEDICATED WALL OUTLET 120-V, SINGLE PHASE POWER
 - ⚡ DEDICATED TELEPHONE LINE(S) (SEE ELECTRICAL DETAIL ELEC-1)
 - ⚡ NETWORK OUTLET (SEE ELECTRICAL DETAILS ELEC-83 AND ELEC-84)
- DUCT HATCHING LEGEND**
- ▨ ABOVE CEILING DUCT
 - ▩ UNDER FLOOR DUCT
 - ▧ TRENCH DUCT (FLUSH FLOOR)
 - ▦ SURFACE FLOOR DUCT
 - ▤ CABLE TRAY
 - ABOVE CEILING CONDUIT
 - BELOW FLOOR CONDUIT

- JUNCTION POINT NOTES**
- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMER'S ELECTRICAL CONTRACTOR.
 - CONDUIT AND DUCT RUNS SHALL HAVE SWEEP RADIUS BENDS
 - CONDUITS AND DUCT ABOVE CEILING OR BELOW FINISHED FLOOR MUST BE INSTALLED AS NEAR TO CEILING OR FLOOR AS POSSIBLE TO REDUCE RUN LENGTHS.
 - CEILING MOUNTED JUNCTION BOXES ILLUSTRATED ON THIS PLAN MUST BE INSTALLED FLUSH WITH FINISHED CEILING.
 - ALL DUCTWORK MUST MEET THE FOLLOWING REQUIREMENTS:
 - DUCTWORK SHALL BE METAL WITH DIVIDERS AND HAVE REMOVABLE, ACCESSIBLE COVERS.
 - DUCTWORK SHALL BE CERTIFIED/RATED FOR ELECTRICAL POWER PURPOSES.
 - DUCTWORK SHALL BE ELECTRICALLY AND MECHANICALLY BONDED TOGETHER IN AN APPROVED MANNER.
 - PVC AS A SUBSTITUTE MUST BE USED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
 - ALL OPENINGS IN ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED OFF WITH GROMMET MATERIAL BY THE CUSTOMER'S CONTRACTOR.
 - GENERAL CONTRACTOR TO INSERT PULL CORDS FOR ALL CABLE RUN CONDUITS BETWEEN THE EQUIPMENT ROOM AND THE OPERATORS CONTROL ROOM.
 - 10 FOOT PIGTAILS AT ALL JUNCTION POINTS.
 - ALL WIRING MUST BE THHN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT INSULATION. ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.
 - GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. SITE MUST CONFORM TO WIRING SPECIFICATIONS SHOWN ON THIS PLAN.

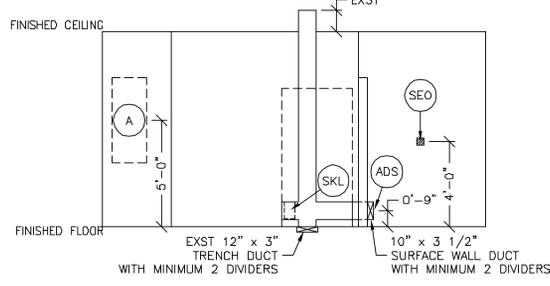
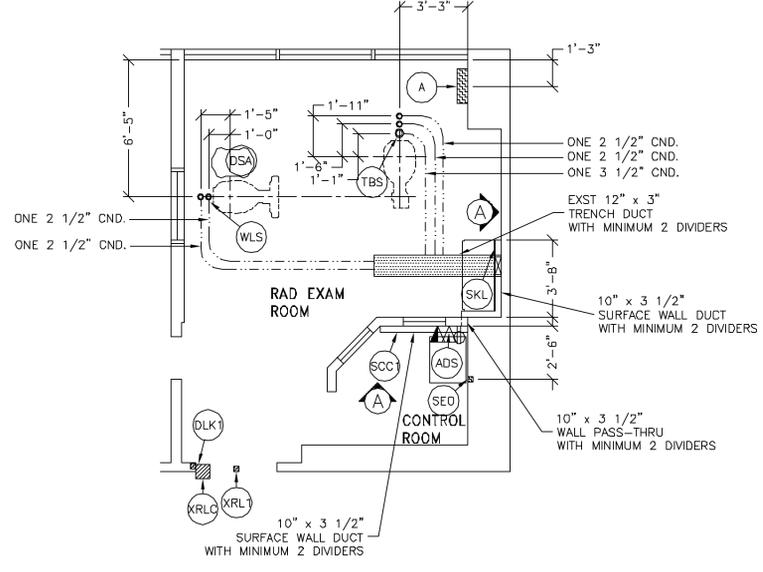
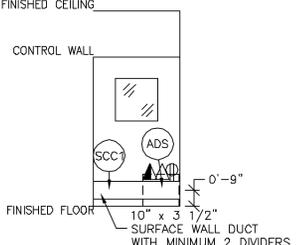
NOTE: USE EXISTING DUCT/CONDUITS WHERE POSSIBLE. ADDITIONAL DUCT/CONDUIT RUNS MAY BE NECESSARY IF EXISTING SYSTEM IS INADEQUATE IN SIZE AND/OR LOCATION FOR THIS INSTALLATION. VERIFY EXISTING SIZE AND LOCATION.

PLEASE SEE BELOW FOR ADDITIONAL REQUIRED CONDUIT RUNS AND SIZES.

JUNCTION POINT DESCRIPTIONS

POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
A	MAIN DISCONNECT AVAILABLE FROM GEHC CALL 800-558-5108 OR LOCAL GE INSTALLATION PROJECT MANAGER	1	80-AMP CIRCUIT BREAKER PANEL GEHS CAT. NO. E45021 OR WITH AUTO RESTART FEATURE E45022P. EMERGENCY OFF PUSHBUTTON STATION IS INCLUDED.	ELEC-15
ADS	ADS COMPUTER	1	SAME ROUTING AS SCC1	
DLK1	DOOR SWITCH (NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)	1	ROOM DOOR INTERLOCK LIMIT SWITCH IN FRAME - NORMALLY OPEN (<24V)	ELEC-5
DSA	DETECTOR SUPPORT ASSEMBLY	1	SINGLE GANG BOX	ELEC-16
SCC1	OPERATORS CONSOLE	1	CONNECT EXTERNALLY	
SEO	EMERGENCY OFF	1	1/2 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5
SKL	TRANSFORMER	1	PROVIDE A SINGLE GANG, 8 1/2 IN. DEEP, FLUSH MOUNTED WALL BOX	ELEC-16
TBS	X-RAY TUBESTAND	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5
WLS	CHEST UNIT	2	1/2 IN. DIA. BUSHING & LOCKNUT	ELEC-9
XRL1	WARNING LIGHT	1	1/2 IN. DIA. BUSHING & LOCKNUT	ELEC-9
XRLC	WARNING LIGHT CONTROLLER AVAILABLE FROM GEHC CALL 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MANAGER	1	COVERPLATE SINGLE GANG BOX X-RAY ON INCANDESCENT LIGHT FIXTURE - DO NOT USE FLUORESCENT FIXTURES.	ELEC-72

* NOTE: THIS SYMBOL DENOTES AN EXISTING LINE SWITCH, LOAD CENTER, ELECTRICAL BOX AND/OR JUNCTION POINT CONNECTION. USE EXISTING ITEM(S) IF ADEQUATE FOR THIS INSTALLATION. IF EXISTING ITEMS ARE DEEMED INADEQUATE UPON FIELD INSPECTION CUSTOMER OR THEIR CONTRACTOR SHALL SUPPLY AND INSTALL THE RECOMMENDED ITEM(S) LISTED ABOVE.



ADDITIONAL CONDUIT RUNS FOR REVOLUTION XQ/i, XR/d, 2X & DEFINIUM 8000 (BY CONTRACTOR)

CONDUITS REQUIRED FOR BASE SYSTEM (CONDUITS ARE LOCATED ABOVE CEILING)

TO	FROM	QUANTITY	REMARKS
XRLC	TO XRL1	ONE 1/2" CND.	
XRLC	TO SKL	ONE 1/2" CND.	
XRLC	TO 120-V 1# POWER	CND. AS REQ'D	
A	TO SKL	ONE CND. AS REQ'D	
A	TO SEO	ONE 1/2" CND.	
A	TO FEEDER	ONE CND. AS REQ'D	
DLK1	TO SKL	ONE 1/2" CND.	

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

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NOTE: CABLE LENGTHS LISTED MAY DIFFER FROM WHAT IS INCLUDED WITH REINSTALLED SYSTEM. CONTACT THE LOCAL FIELD ENGINEER FOR ACTUAL LENGTHS TO BE DELIVERED.

GE Healthcare
 IS Services Design Center
 Milwaukee, WI

SHEET TITLE: ELECTRICAL LAYOUT
 MODALITY TYPE: REVOLUTION XQ1

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO ALL APPLICABLE CODES AND REGULATIONS. IT IS NOT TO BE USED FOR ACTUAL EQUIPMENT INSTALLATION UNLESS IT IS APPROVED BY THE CUSTOMER. GE HEALTHCARE SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES RESULTING THEREFROM.

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:

NO.	DESCRIPTION

SHEET
 E1

This drawing is based on Sketch No.: 11mcc047 VA Brooklyn XQ1 revision P1M R3 RQ - 119540