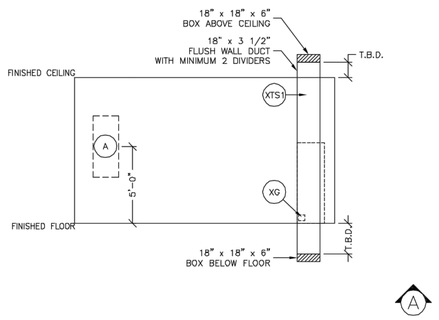
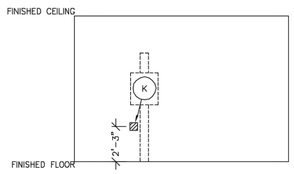
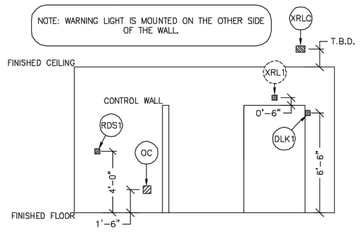
SCALE: 1/4" = 1'-0"

ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 9'-6"







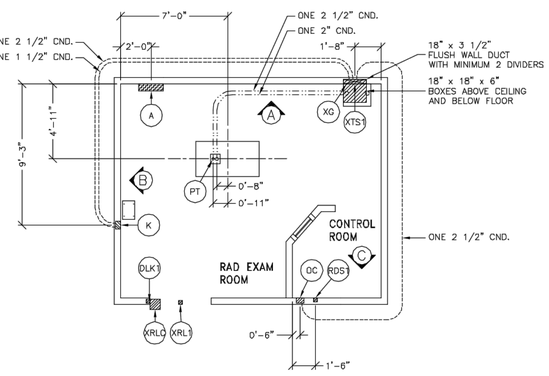
PROTEUS XR/a 80kw REV. DATE: 02/25/06

- 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 GE CABINET.
- THE GROUNDING CONDUCTOR WILL BE OF SAME SIZE AS THE FEEDER WIRES. 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.

NOTE: POWER RUN FROM WALL BOX/DUCT TO GENERATOR MUST BE WELDING CABLE OR EQUIVALENT.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE					
	342–418 380	360–440 400	373–456 420	396–484 440	414–506 460	432–528 480
	SIZE OF FEEDERS AND GROUND WIRES (AWG)					
50	* 2	* 2	* 2	* 2	* 2	* 2
100	* 2	* 2	* 2	* 2	* 2	* 2
150	1/0	1	1	* 2	* 2	* 2
200	2/0	2/0	1/0	1/0	1	1
250	3/0	3/0	2/0	2/0	1/0	1/0
300	4/0	4/0	3/0	3/0	2/0	2/0
350	300M	250M	4/0	4/0	3/0	3/0
400	350M	300M	250M	4/0	4/0	3/0
450	400M	350M	300M	250M	250M	4/0

PLEASE SEE BELOW FOR ADDITIONAL REQUIRED CONDUIT RUNS AND SIZES.



JUNCTION POINT NOTES

- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMERS 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 LENGTH.
- CEILING MOUNTED JUNCTION BOXES ILLUSTRATED ON THIS PLAN MUST BE INSTALLED FLUSH WITH FINISHED CEILING.
- ALL DUCTWORK MUST MEET THE FOLLOWING REQUIREMENTS:
  1. DUCTWORK SHALL BE METAL WITH DIVIDERS AND HAVE REMOVABLE, ACCESSIBLE COVERS.
  2. DUCTWORK SHALL BE CERTIFIED/RATED FOR ELECTRICAL POWER PURPOSES.
  3. DUCTWORK SHALL BE ELECTRICALLY AND MECHANICALLY BONDED TOGETHER IN AN APPROVED MANNER.
  4. 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 CUSTOMERS 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. NO ALUMINUM OR SOLID WIRES.
- ALL WIRING MUST BE THHN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT UNLESS OTHERWISE STATED.
- GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. SITE MUST CONFORM TO WIRING SPECIFICATIONS SHOWN ON THIS PLAN.

JUNCTION POINT DESCRIPTIONS

POINT	DESCRIPTION	QTY.	THE FOLLOWING MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER'S ELECTRICAL CONTRACTOR HARDWARE	DETAIL NO., SHT. E3
A	MAIN DISCONNECT #AVAILABLE FROM GENCO, CALL 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	80-AMP CIRCUIT BREAKER PANEL SPEC CAT NO ED2080T3 OR WITH AUTO RESTART FEATURE-E4500RPT. EMERGENCY OFF PUSH-BUTTON STATION IS INCLUDED.	ELEC-15
DLK1	DOOR SWITCH	1 1	ROOM DOOR INTERLOCK LIMIT SWITCH IN FRAME - NORMALLY OPEN (24V) SINGLE GANG BOX	
K	CASSETTE HOLDER	1 1 1 1	1 1/2 IN. DIA. CHASE NIPPLE SPLIT COVERPLATE 2 1/2 IN. DIA. CHASE NIPPLE 6 X 6 X 4 IN. BOX WITH DIVIDER	ELEC-79
OC	CONTROL CONSOLE	1 1 1	2 1/2 IN. DIA. CHASE NIPPLE 6 X 6 X 4 IN. BOX COVERPLATE	ELEC-8
PT	TABLE	2	SUITABLE BUSHING & LOCKNUT	ELEC-9
RDS1	EMERGENCY OFF	1	PROVIDE A SINGLE GANG, 2 1/8 IN. DEEP, FLUSH MTD. WALL BOX.	ELEC-16
XG	GENERATOR	1 1 2	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER 6 FT. LENGTH OF 1 1/2 IN. FLEXIBLE METAL CONDUIT 1 1/2 IN. 90 DEGREE CONNECTOR	ELEC-2 ELEC-6
XRL1	WARNING LIGHT	1 1	SINGLE GANG BOX X-RAY ON" INCANDESCENT LIGHT FIXTURE. 25W, 130V OR LESS LOW VOLTAGE SOURCE. DO NOT USE FLUORESCENT FIXTURES.	
XRLC	WARNING LIGHT CONTROLLER #AVAILABLE FROM GENCO, CALL 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	E4502RL WARNING LIGHT CONTROL OR EQUIVALENT MAX 24V CONTROLLER	ELEC-72
XTS1	X-RAY TUBE HANGER	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER	ELEC-6

ADDITIONAL CONDUIT RUNS FOR PROTEUS XR/a (BY CONTRACTOR)

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

REV DATE: 01/01/08

XRLC	TO	XRL1	ONE 1/2" CND.
XRLC	TO	XG	ONE 1/2" CND.
XRLC	TO	120-V 1Ø POWER	CND. AS REQ'D
A	TO	XG	ONE CND. AS REQ'D
A	TO	RDS1	ONE 1/2" CND.
A	TO	FEEDER	ONE CND. AS REQ'D
DLK1	TO	XG	ONE 1/2" CND.

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

DUCT HATCHING LEGEND

- ABOVE CEILING DUCT
- UNDER FLOOR DUCT
- TRENCH DUCT (FLUSH FLOOR)
- SURFACE FLOOR DUCT
- ABOVE CEILING CONDUIT
- BELOW FLOOR CONDUIT

CONTRACTOR SUPPLIED AND INSTALLED WIRING

ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS.

WIRE RUN, FROM — TO	QUANTITY, WIRE SIZE/COLOR
3 PHASE > A	REFER TO FEEDER TABLE
A > XG	REFER TO FEEDER TABLE
A > RDS1	2-NO. 14 BLACK, 1-NO. 14 GREEN
XG > DLK1	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
XG > XRLC	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
XRLC > 1 PHASE	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
XRL1 > XRLC	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED

GE Healthcare Technologies
Installation Services Design Center
Wisconsin
Milwaukee,

SHEET TITLE: ELECTRICAL LAYOUT
MODALITY TYPE: PROTEUS XR/a

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ACCESSORIES. WHILE DUE CARE AND DILIGENCE HAVE BEEN EXERCISED IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO APPLICABLE CODES AND REGULATIONS, IT IS THE RESPONSIBILITY OF THE ARCHITECT OR ACTUAL CONSTRUCTION PURPOSES. HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: 1-124f TYPICAL LAYOUT

PROJECT	REVISION
1-124f	06

DATE: 06-26-08
DRAWN BY: REK
CHECKED BY: TRS

REVISION HISTORY:

SHEET E1

NFSH-1002

Department of Veterans Affairs

FOR REFERENCE ONLY

ARCHITECT OF RECORD:

SBBL Architecture + Planning
1001 North Alvernon Way # 105, Tucson, Arizona 85711
t: 520.620.0255 f: 520.620.0535 e: sbbl@sbbl.biz

EMERGENCY DEPARTMENT

AMARILLO VA HEALTH CARE SYSTEM
AMARILLO, TEXAS

Approved: VA Area Proj. Mgr.

V.A. PROJECT NO: VA258-P-0196
SBBL PROJECT NO: 0110.00.0
DRAWN BY: Author
CHECKED BY: Checker
DATE: 07/15/11

△	Date	Revision

Approved: Med. Cter. Director

Approved: Asst. Admin Engineering Service

Approved: Asst. VA Medical Director

Approved: Chief of Facilities

Approved: Chief of Engineering

Approved: Chief of Projects

KEY PLAN

FOR REFERENCE ONLY

48-EQS5.5