

Drawing Index

These sheets are a document set and should not be separated. Electrical information and references are contained on all sheets.

SITE READINESS	C1
EQUIPMENT LAYOUT (Equipment locations, heat loads, component weights, environmental specs)	A1
STRUCTURAL LAYOUT (Structural support/mounting locations for floor/wall/ceiling, wall support elevations)	S1
STRUCTURAL DETAILS (Floor and Ceiling loading information)	S2
ELECTRICAL LAYOUT (Contractor supplied wiring, interconnect methods, junction point locations and descriptions)	E1
ELECTRICAL SPECIFICATIONS (Maximum wiring run lengths, interconnect diagram, system power specifications)	E2
ELECTRICAL DETAILS	E3
EQUIPMENT DETAILS	D1 THRU D2

These equipment IS drawings indicate the placement and interconnection of the listed equipment components. These drawings are not construction or site preparation drawings. Customer remains ultimately responsible for preparing the site to accommodate the IS and operation of such equipment in compliance with GE Healthcare's written specifications and all applicable federal, state, and/or local requirements.

*** REQUIRED REFERENCE ***

LightSpeed VCT
Pre Installation Manual
5116410-100

A mandatory component of this drawing set is the GE Healthcare Pre Installation manual. Failure to reference the preIS manual will result in incomplete documentation required for site design and preparation.

Pre Installation documents for GE Healthcare products can be accessed on the web at:

www.gehealthcare.com/siteplanning

GE Healthcare



CT Site Planning



imagination at work

Customer Site Readiness Requirements

- Any deviation from these drawings must be communicated in writing to and reviewed by your local GE Healthcare Installation Project Manager prior to making changes.
- Make arrangements for any rigging, special handling, or facility modifications that must be made to deliver the equipment to the installation site. If desired, your local GE Healthcare Installation Project Manager can supply a reference list of rigging contractors.
- New construction requires the following; 1. Secure area for equipment, 2. Power for drills and other test equipment, 3. Capability for image analysis, 4. Restrooms.
- Provide for refuse removal and disposal (e.g. crates, cartons, packing)
- Contact a radiation physicist or consultant to specify radiation containment requirements.

GE Equipment Delivery Requirements

The items on the GE Healthcare Site Readiness Checklist are REQUIRED to facilitate equipment delivery to the IS site. Equipment will not be delivered if these requirements are not satisfied.

GE Healthcare Site Readiness Checklist Rev 19				
<p>Before using this document, ensure you have the latest Rev from MyWorkshop on DO0422752</p> <p>GEHC Global Order #: _____ Customer: _____ GEHC PM#: _____ FE / Installer: _____</p> <p>The customer is responsible for proper site preparation regardless of any GEHC measurements/inspections/assessments.</p>				
Inspection Date:				
GEHC Minimum Requirements				
	Storage (Is item ready?)	PHM (Is item ready?)	FE (Is item ready?)	Comments (If "N", enter comments or action plan)
1				MR Magnet Delivery Requirements: Ensure cryogen venting system is available for magnet installation as defined by GEHC. Pre-installation Manual (PHM) measurements, on-load fan system is installed and operational, 480V power, and chilled water supply is available 24/7 that meets system cooling requirements. External connectivity is available for magnet monitoring and phone service is available during delivery. Surface in-sert vibration mat installed where required. Magnet room final flooring is in place.
2				MR RF Screen Room Requirements: RF Screen Room is tested with copy of Test Report, emailed to IS Admin@GEIP@ge.com, that is compliant with GEHC specifications. Duct Bolts and magnet anchors (if applicable) installed using 2 part anchors. For HDR systems, blowdown mount bolts installed by RF vendor using 2 part anchors.
3				State Regulatory Requirements: Facility registration number provided for states of IL, IN, HI, FL, SC, TX, & VA. Facility registration plan and state acknowledgment letter provided to installer for AZ, DC, NC, SC, CO, & VA.
4				Site Drawing Requirements: Final version of a equipment network and antenna, installation drawings (including red lined versions) verified to match actual room and has been provided to installer.
5				Surface Penetration Requirements: Customer/Contractor scheduled to provide required drilling or cutting into floors, ceilings, and walls; OR surface penetration permit available and posted in the room when GEHC will perform the work.
6				Pre-Delivery Route Requirements: The equipment delivery route from the truck to the final destination within the facility has been reviewed with all key stakeholders to safely meet the minimum requirements for equipment access, and all communications/notifications have occurred. Arrangements have been made for special handling (elevator, rigging, floor protection, fork lift, millback truck, etc).
7				Finished Room Requirements: Rooms that will contain equipment, including storage areas not in green carts, are dust-free. Provisions taken to contain dust-free room. Precautions must be taken to prevent dust from entering rooms containing equipment when construction is incomplete in adjacent areas. All walls primed/final coat not needed on Day 1. Shielding, doors, and windows are to be installed. No contractor work being done during or after the installation that will cause dust in the installation areas or potential equipment damage. Room security to prevent unauthorized access and theft has been discussed with customer. The customer is aware of the security issues, implications and responsibility. For Storage Room must meet PHM requirements for storage.
8				Electrical Requirements: LOTO/Train Disconnect Panel (TRDP) is installed per GE guidelines and system power is available. Conduits, electrical cable ducting/divers cable trays, and access flooring is installed in proper location and height. Surface floor duct and load-side wires can be installed at time of system installation. Validate outlet location and requirements meet specifications for device/equipment.
9				HVAC Requirements: The HVAC/Chilled Water systems designed to maintain the environment per speed/PHM is at running state and appears to provide the desired environmental conditions including location of vents, temperature and humidity for system operation.
10				Flooring Requirements: Floor is clean and prepared for final floor covering. Floor levelness/flatness is measured and within tolerance, and there are no visible defects per GEHC specifications. Confirm customer anchoring plan aligns with designed floor thickness. Final flooring installed where required for network racks.
11				Ceiling Requirements: Unistrut for equipment location, levelness and spacing is measured (or vendor confirmed) and consistent with the requirements of the installation drawings. Ensure unistrut and rails are not secured on existing surfaces. Ceiling grid is installed. Permanent lighting is installed and operational. HVAC diffusers are installed and connected to ductwork. Ceiling tiles installed per PHM installation.
12				Staging Requirements: Space has been identified to support the active installation process only. This area meets PHM/project book requirements.
13				Storage Requirements: Storage space has been identified, if needed. This secured space would be used to store equipment indefinitely. If offsite, transportation plan has been developed at customer expense. This space must meet PHM requirements.
14				Network Connectivity: Hardware for network connectivity (network drops) is in place prior to delivery with specified network fire wall configuration where required. Site surveys for wireless mobile RR units have been completed.
15				Medical Gases Requirements: Systems (hard piped or portable) in place to allow testing and calibration of equipment (e.g. the size), including ventilation.

GE Healthcare
IS Services Design Center
Minneapolis, MN
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SHEET TITLE: SITE READINESS
MODALITY TYPE: LIGHTSPEED VCT w/ GT1700
THIS PLAN IS SUBMITTED TO CURRENT LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE LATEST REVISED DRAWINGS. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY ALL CONSTRUCTION DETAILS BEFORE ANY CONSTRUCTION BEGINS. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
6-54f
TYPICAL LAYOUT
(1700 TABLE)

PROJECT	REVISION
6-54f	02
DATE:	27.Sep.12
DRAWN BY:	JCA
CHECKED BY:	PMM

REVISION HISTORY:

SHEET
C1

GE EQUIPMENT LISTING

EQUIPMENT ON ORDER FROM GE HEALTHCARE, INSTALLED BY GE HEALTHCARE, PER : **NEITHER A QUOTE OR CON WAS ISSUED AT THE DATE OF THESE DRAWINGS**

NOTE: LOCAL CONDITIONS MAY DICTATE THAT ITEMS IDENTIFIED IN THIS CATEGORY BE INSTALLED BY OTHERS.

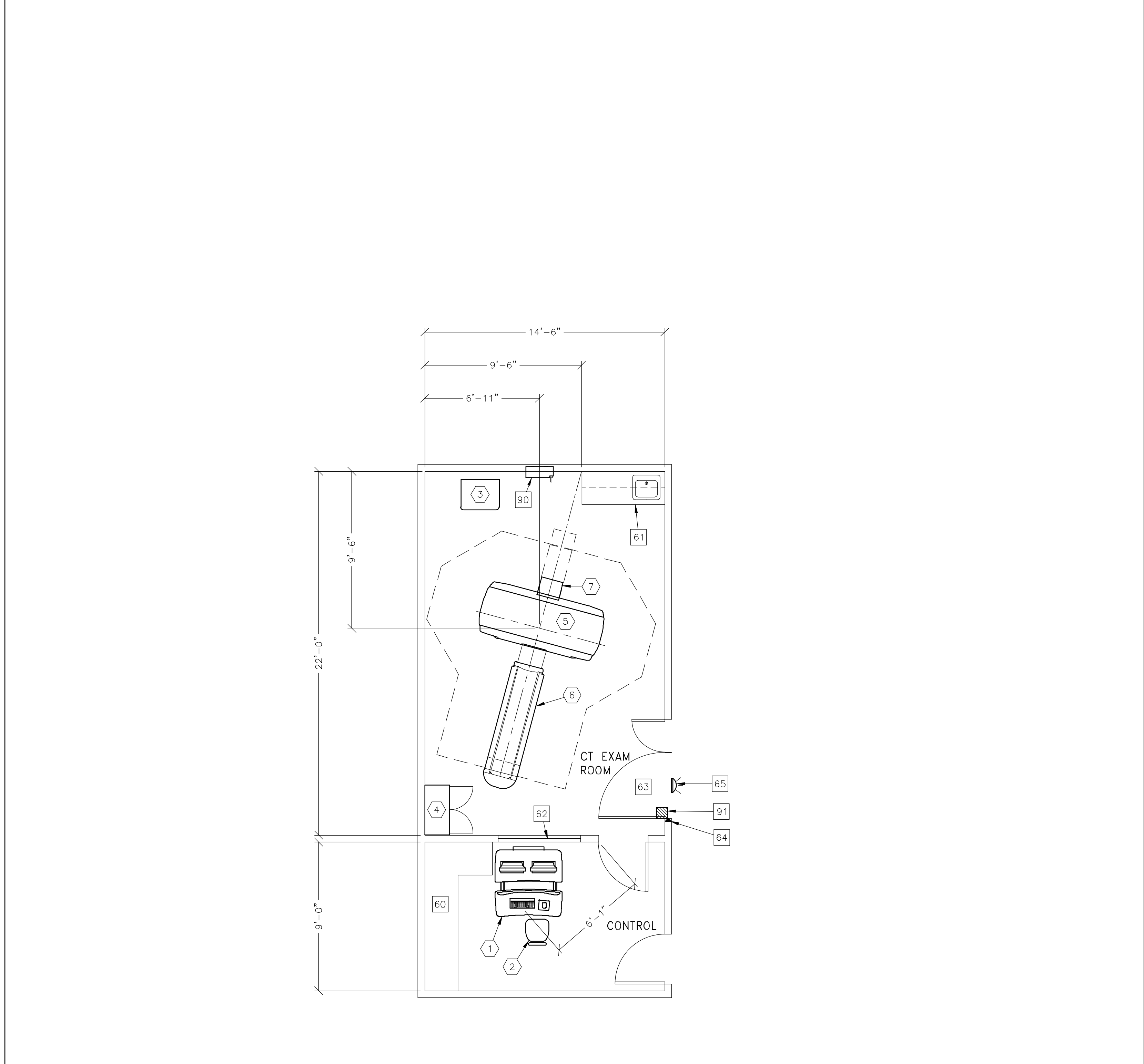
ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN	EQUIPMENT CROSS REFERENCE CHART	
									P = PREAPPROVAL	C = CALCULATIONS/PENDING APPROVAL
1	1		OPERATOR'S CONSOLE / COMPUTER	493 lbs	6000 btu/h	B7858A	-	DC	-	S
2	1		OPERATOR'S CHAIR							
3	1		POWER DISTRIBUTION UNIT	701 lbs		B7858D	-	PM	-	S
4	1		STORAGE CABINET (EMPTY CABINET WEIGHT)	99 lbs		M33005	-		-	
5	1		CT Lightspeed VCT (BTO'S INCLUDE GANTRY, TABLE, & PDU)	4049 lbs	35000 btu/h	B7864D B7864E B7864A B7864C B7864E1 B7864BB	B78	CTT		C
6	1		GT1700 PATIENT TABLE WITH EXTENDED TABLE TOP	881 lbs		B7818C	-		-	
7	1		REAR CABLE COVER			B8141				

THE FOLLOWING ITEMS, WHICH HAVE BEEN ORDERED FROM GE HEALTHCARE, ARE TO BE INSTALLED BY THE CUSTOMER OR HIS CONTRACTOR.

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EQUIPMENT LAYOUT SCALE: 1/4" = 1'-0" RECOMMENDED CEILING HEIGHT = 9'-0"

This equipment layout indicates the placement and interconnection of the indicated equipment components. There may be federal, state, and/or local requirements that could impact the placement of these components. It remains the Customer's responsibility for ensuring the site and final equipment placement complies with all applicable federal, state, and/or local requirements.



THE FOLLOWING ITEMS, WHICH HAVE BEEN ORDERED FROM GE HEALTHCARE, ARE TO BE INSTALLED BY THE CUSTOMER OR HIS CONTRACTOR.

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ANCILLARY ITEMS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	COUNTER TOP FOR EQUIPMENT - PROVIDE GEOMETRIC OPENINGS AS REQUIRED TO ROUTE INTERCONNECT CABLES TO RACEWAY BELOW COUNTERTOP.
61	COUNTER TOP WITH SINK, BASE AND WALL CABINETS
62	LEAD GLASS WINDOW
63	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 44 IN. W X 83 IN. H (1118mm X 2108mm). CONTINGENT ON A 96 IN. (2438mm) CORRIDOR WIDTH
64	DOOR LIMIT SWITCH (REQUIRED IN SOUTH CAROLINA, OTHERWISE NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)
65	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL 1-800-200-9760 GE CAT. NO. VXTABW-WF-XIU

THE FOLLOWING ITEMS ARE AVAILABLE FROM GE HEALTHCARE TECHNOLOGIES. CONTACT YOUR LOCAL GE HEALTHCARE SERVICE REPRESENTATIVE FOR PRICING AND AVAILABILITY.

90	MAIN DISCONNECT CONTROL
91	X-RAY ROOM WARNING LIGHT CONTROL PANEL (REQUIRED IN SOUTH CAROLINA, OTHERWISE NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES) FOR DETAILED DESCRIPTION -E4502RL FOR WARNING LIGHT CONTROL ONLY.

GENERAL SPECIFICATIONS

- THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR LOCAL GEHC SPECIALIST REGARDING ACCEPTABILITY OF OTHER CEILING HEIGHTS.
- CHECK ALL DOOR OPENINGS AND HALLWAYS FROM DELIVERY LOCATION TO WHERE EQUIPMENT IS TO BE INSTALLED TO ENSURE THE ROUTE PHYSICALLY AND STRUCTURALLY WILL ACCOMMODATE THE EQUIPMENT AS SHIPPED.
- RADIATION PROTECTION REQUIREMENTS ARE NOT INDICATED ON THIS PLAN. WHERE NEEDED PER NATIONAL OR LOCAL CODE THEY SHALL BE SPECIFIED BY A QUALIFIED RADIOLOGICAL PHYSICIST.
- THE DEVELOPMENT OF THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, MECHANICAL AND ELECTRICAL SUGGESTIONS IS PREDICATED UPON THE BEST INFORMATION OBTAINABLE FROM THE SITE, COUPLED WITH THE CUSTOMER'S KNOWN DESIRES. ARCHITECTURAL OR ELECTRICAL CHANGES INCLUDING RELOCATION OF EQUIPMENT ILLUSTRATED ON THIS DRAWING IS ALLOWED ONLY WITH NOTIFICATION, IN WRITING, AND REVIEW BY GEHC SERVICE DEPARTMENT. EQUIPMENT OPERATION, SERVICEABILITY, AND RESTRICTING CABLE LENGTHS, ETC., MAKE THIS ESSENTIAL FOR A PROPER IS. GEHC RESERVES THE RIGHT TO MAKE ON THE JOB CHANGES BECAUSE OF CUSTOMER REQUIREMENTS AND/OR OBSTACLES IN CONSTRUCTION, ETC..
- ALL WORK TO BE IN COMPLIANCE WITH NATIONAL AND LOCAL BUILDING SAFETY CODES.
- DIMENSIONS ARE TO FINISHED SURFACES OF ROOM

SITE ENVIRONMENT SPECIFICATIONS

- AMBIENT OPERATING TEMPERATURE:
SCAN ROOM: TEMPERATURE RANGE 64°-79° F (18°-26° C)
CONTROL ROOM: MAINTAIN TEMPERATURE AT 72° F (22° C)
- MAXIMUM TEMPERATURE RATE OF CHANGE OF 5° F (3° C)/HOUR.
- HUMIDITY: 30 TO 60 PERCENT NON-CONDENSING DURING OPERATION (ALL AREAS)
- MAXIMUM RELATIVE HUMIDITY RATE OF CHANGE IS 5 PER CENT RH/HOUR.
- ALTITUDE: NOT TO EXCEED 10,000 FT. (3050M) ABOVE SEA LEVEL.
- THE ENVIRONMENT FOR THE ELECTRONICS CABINET MUST BE CONTROLLED SO THE ABOVE RESTRICTIONS ARE NOT EXCEEDED.
- DO NOT RESTRICT THE AIR INTAKE OR AIR EXHAUST OF THE SYSTEM COMPONENTS.
- ENVIRONMENTAL CONDITIONS LISTED ABOVE MUST BE MAINTAINED AT ALL TIMES INCLUDING FOR EXAMPLE OVERNIGHT, WEEKENDS, AND HOLIDAYS.

MAGNETIC INTERFERENCE SPECIFICATIONS

- CT GANTRY MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN ONE GAUSS TO GUARANTEE SPECIFIED IMAGING PERFORMANCE. AMBIENT AC MAGNETIC FIELDS MUST BE BELOW 0.01 GAUSS PEAK.
- CT COMPUTER EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN TEN GAUSS TO GUARANTEE DATA INTEGRITY.
- CT CONTROL EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN LISTED BELOW TO OBTAIN SPECIFIED GEOMETRIC LINEARITY.

CONSOLE/COMPUTER	10 GAUSS
CRT MONITOR	1 GAUSS
LCD MONITOR	50 GAUSS

GE Healthcare
IS Services Design Center
Minneapolis, Wisconsin

SHEET TITLE: **EQUIPMENT LAYOUT**
MODALITY TYPE: **LIGHTSPEED VCT W/ GT1700**

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

PROJECT TITLE:
6-54f
TYPICAL LAYOUT
(1700 TABLE)

PROJECT	REVISION
6-54f	02
DATE:	27.Sep.12
DRAWN BY:	JCA
CHECKED BY:	PMM

REVISION HISTORY:

SHEET
A1

TYPICAL WALL SUPPORT ELEVATIONS

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

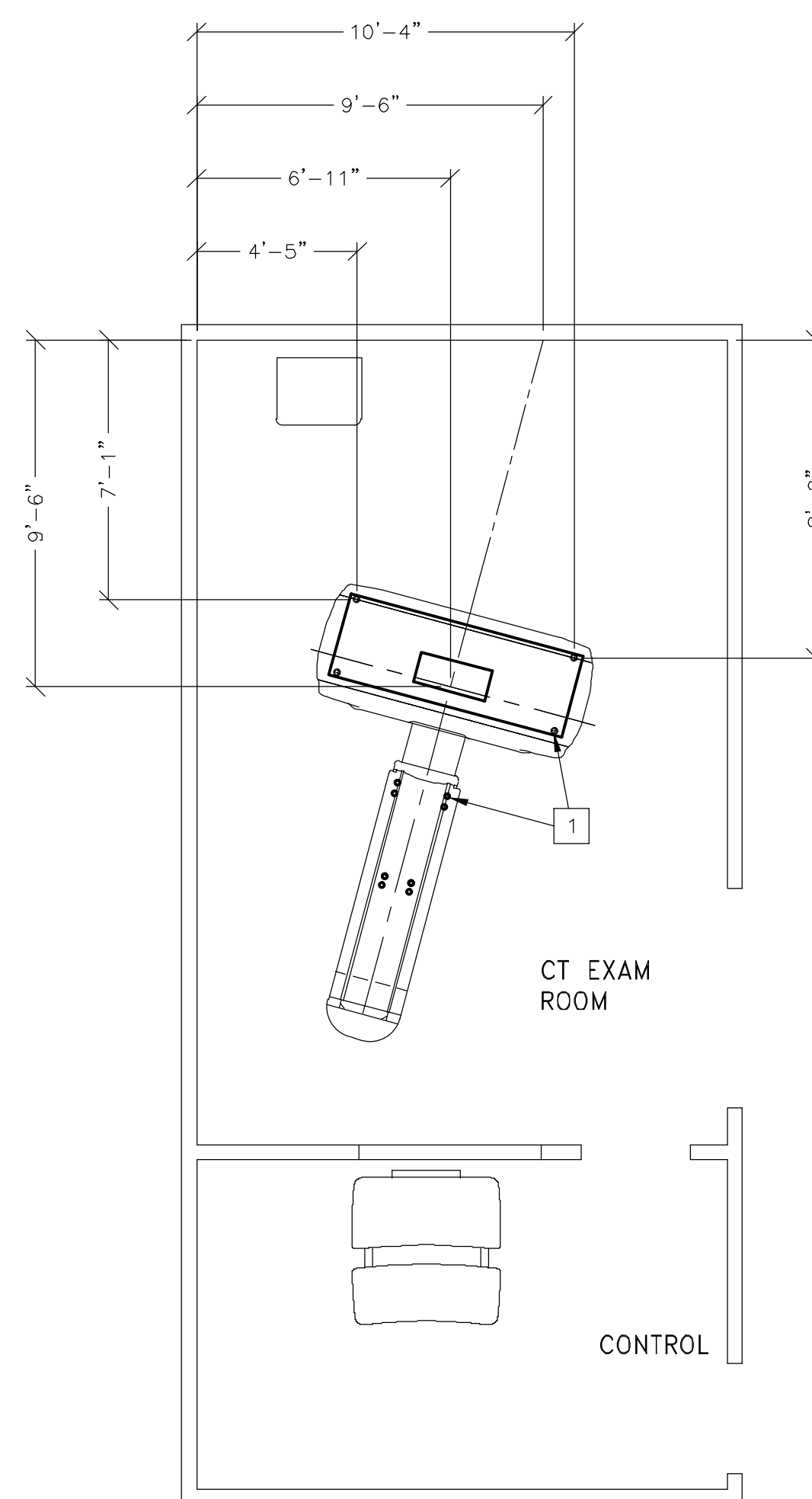
STRUCTURAL LAYOUT

RECOMMENDED CEILING HEIGHT = 9'-0"

STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	LEVELING AREA FOR GANTRY AND TABLE SEE DETAIL B78-64 ON SHEET S2.



STRUCTURAL NOTES

- o ALL STEEL WORK AND PARTS NECESSARY TO SUPPORT CEILING MOUNTED EQUIPMENT IS TO BE SUPPLIED BY THE CUSTOMER OR HIS CONTRACTORS.
- o METHODS OF SUPPORT FOR THE STEELWORK THAT WILL PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE CONSTRUCTION SHOULD BE FAVORED. DO NOT USE CONCRETE OR MASONRY ANCHORS IN DIRECT TENSION.
- o ALL UNITS THAT ARE WALL MOUNTED OR WALL SUPPORTED ARE TO BE PROVIDED WITH SUPPORTS WHERE NECESSARY. WALL SUPPORTS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER OR HIS CONTRACTORS. SEE PLAN AND DETAIL SHEETS FOR SUGGESTED LOCATIONS AND MOUNTING HOLE LOCATIONS.
- o ALL CEILING MOUNTED FIXTURES, AIR VENTS, SPRINKLERS, ETC. TO BE FLUSH MOUNTED, OR SHALL NOT EXTEND MORE THAN 1/4" BELOW THE FINISHED CEILING.
- o FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 1/8" in 10'-0"
- o DIMENSIONS ARE TO FINISHED SURFACES OF ROOM.
- o CUSTOMERS CONTRACTOR MUST PROVIDE ALL PENETRATIONS IN POST TENSION FLOORS.
- o CUSTOMERS CONTRACTOR MUST PROVIDE AND INSTALL ANY NON-STANDARD ANCHORING. DOCUMENTS FOR STANDARD ANCHORING METHODS ARE INCLUDED WITH GE EQUIPMENT FOR DRAWINGS GEOGRAPHIC AREAS THAT REQUIRE SUCH DOCUMENTATION.
- o CUSTOMERS CONTRACTOR MUST PROVIDE AND INSTALL HARDWARE FOR "THROUGH THE FLOOR" ANCHORING AND/OR ANY BRACING UNDER ACCESS FLOORS. THIS CONTRACTOR MUST ALSO PROVIDE FLOOR DRILLING THAT CANNOT BE COMPLETED BECAUSE OF AN OBSTRUCTION ENCOUNTERED WHILE DRILLING BY THE GE INSTALLER SUCH AS REBAR ETC.

SHEET TITLE: STRUCTURAL LAYOUT
 MODALITY TYPE: LIGHTSPEED VCT W/ GT1700

THIS PLAN IS SUBMITTED TO SUBMIT 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 THE ACTUAL CONSTRUCTION PRACTICES. HOWEVER, THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
 6-54f
 TYPICAL LAYOUT
 (1700 TABLE)

PROJECT	REVISION
6-54f	02
DATE:	27.Sep.12
DRAWN BY:	JCA
CHECKED BY:	PMM

REVISION HISTORY:

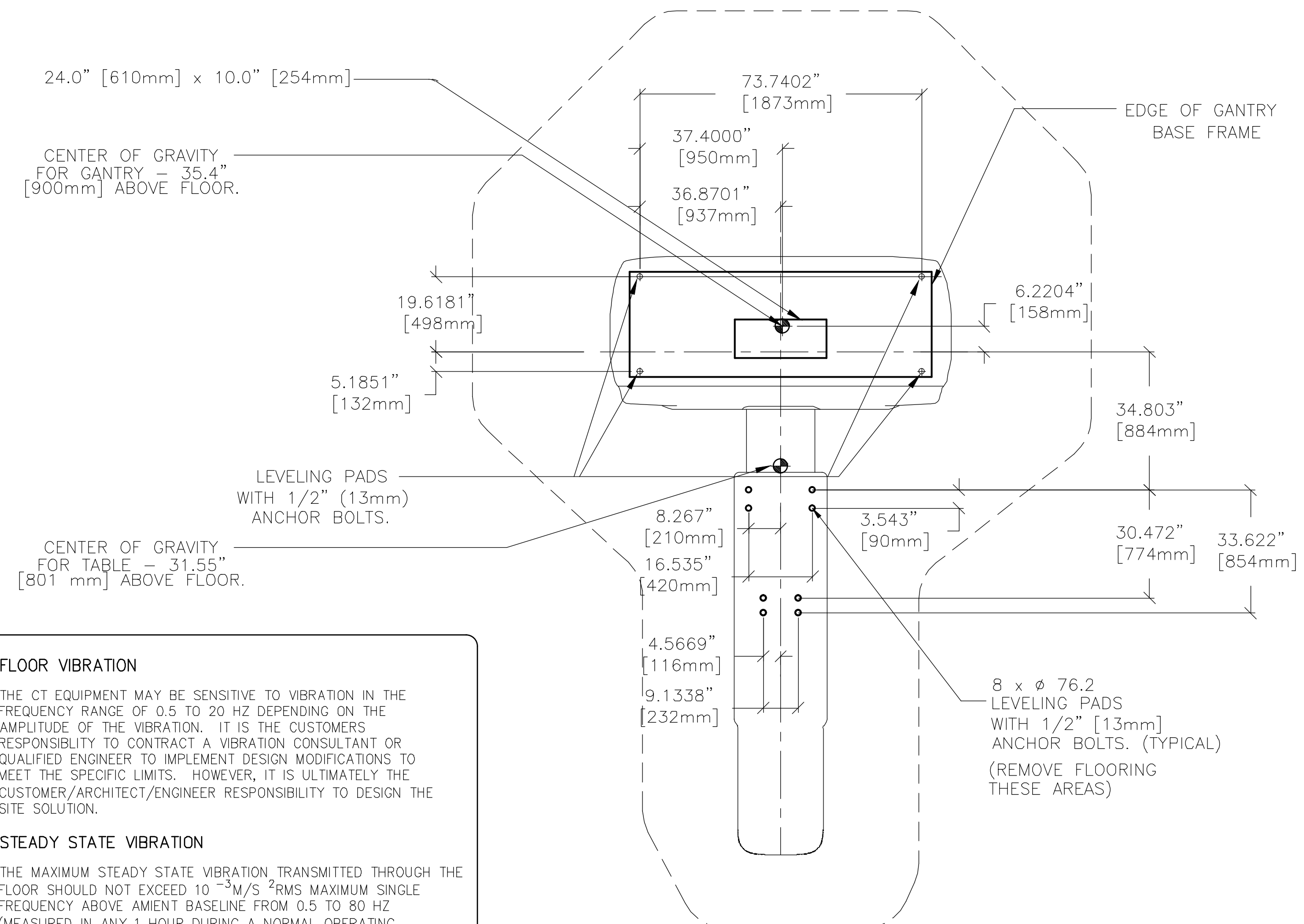
SHEET
 S1

GE Healthcare
 IS Services Design Center
 Milwaukee, Wisconsin

CT GANTRY AND TABLE ANCHOR/LEVELING

B78-64

REV. DATE: 11/12/10

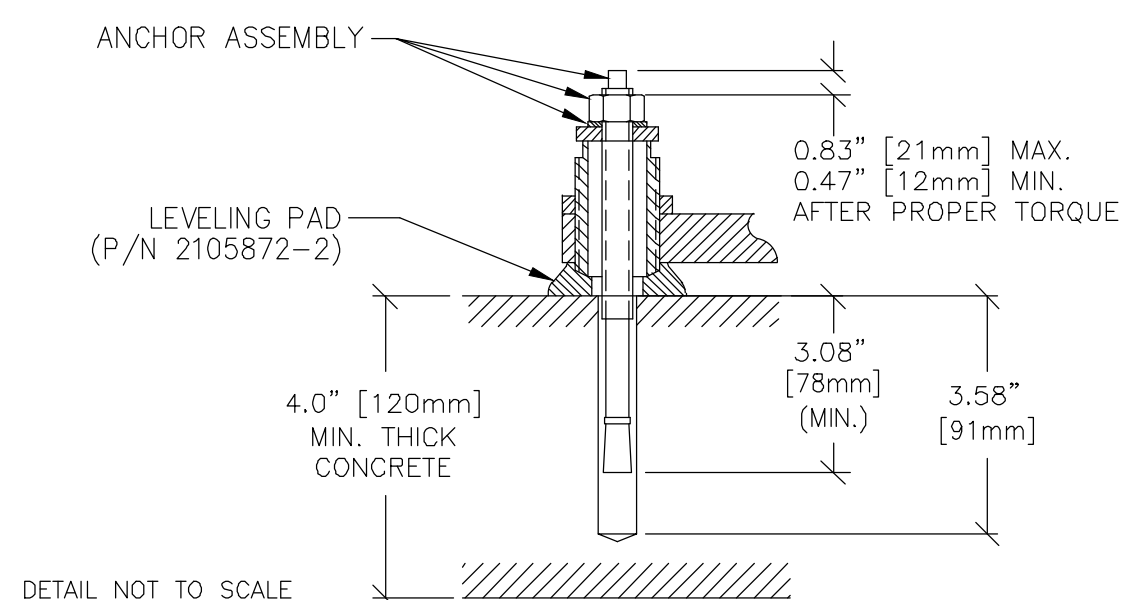


FLOOR VIBRATION
 THE CT EQUIPMENT MAY BE SENSITIVE TO VIBRATION IN THE FREQUENCY RANGE OF 0.5 TO 20 HZ DEPENDING ON THE AMPLITUDE OF THE VIBRATION. IT IS THE CUSTOMERS RESPONSIBILITY TO CONTRACT A VIBRATION CONSULTANT OR QUALIFIED ENGINEER TO IMPLEMENT DESIGN MODIFICATIONS TO MEET THE SPECIFIC LIMITS. HOWEVER, IT IS ULTIMATELY THE CUSTOMER/ARCHITECT/ENGINEER RESPONSIBILITY TO DESIGN THE SITE SOLUTION.

STEADY STATE VIBRATION
 THE MAXIMUM STEADY STATE VIBRATION TRANSMITTED THROUGH THE FLOOR SHOULD NOT EXCEED 10^{-3} M/S² RMS MAXIMUM SINGLE FREQUENCY ABOVE AMBIENT BASELINE FROM 0.5 TO 80 HZ (MEASURED IN ANY 1 HOUR DURING A NORMAL OPERATING PERIOD).

TRANSIENT VIBRATION
 THE BEHAVIORAL CHARACTERISTICS MUST BE SUCH THAT ANY MEASUREABLE TRANSIENT DISTURBANCE MUST ALSO BE MINIMIZED TO LESS THAN 0.01 M/S² PEAK-TO-PEAK.

EQUIPMENT LOCATION
 TO MINIMIZE THE INTERFERENCE, THE SYSTEM SHOULD BE PLACED ON A SOLID FLOOR. LOCATED AS FAR AS POSSIBLE FROM THE VIBRATION SOURCES, SUCH AS PARKING LOTS, ROADWAYS, SUBWAYS, TRAINS, HALLWAYS, ELEVATORS, AND HOSPITAL PHYSICAL PLANTS. PLEASE NOTE THAT OTHER ITEMS NOT LISTED COULD ALSO BE POTENTIAL SOURCES OF VIBRATION.



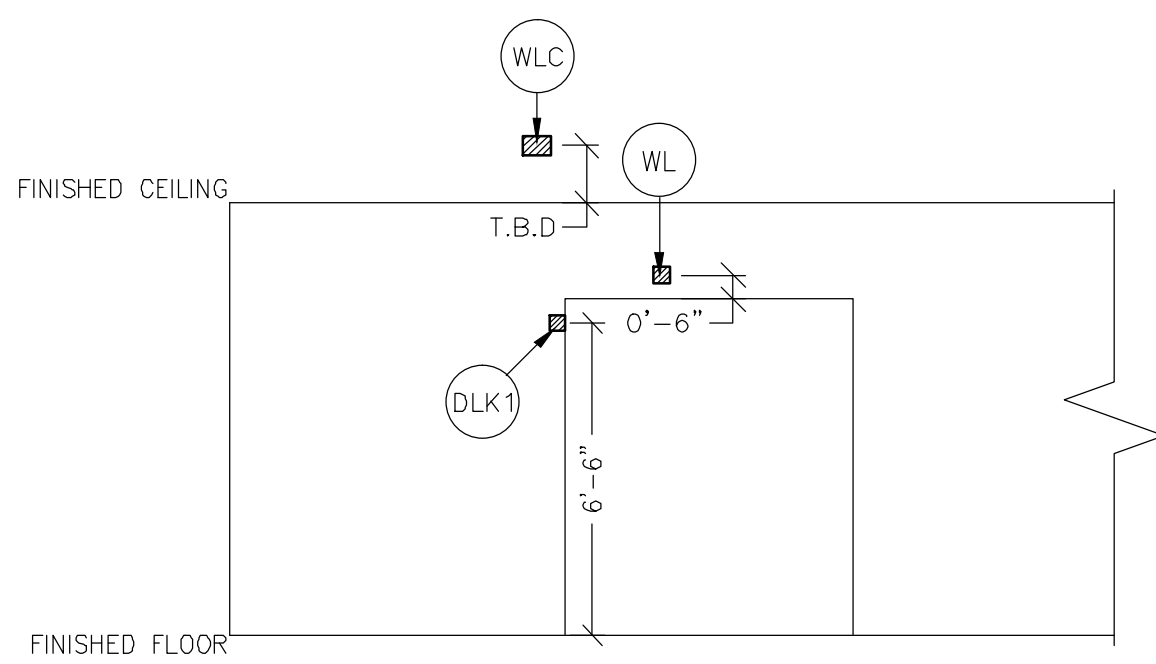
PROJECT	REVISION
6-54f	02
DATE:	27.Sep.12
DRAWN BY:	JCA
CHECKED BY:	PMM

REVISION HISTORY:

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

ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 9'-0"



DUCT HATCHING LEGEND

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

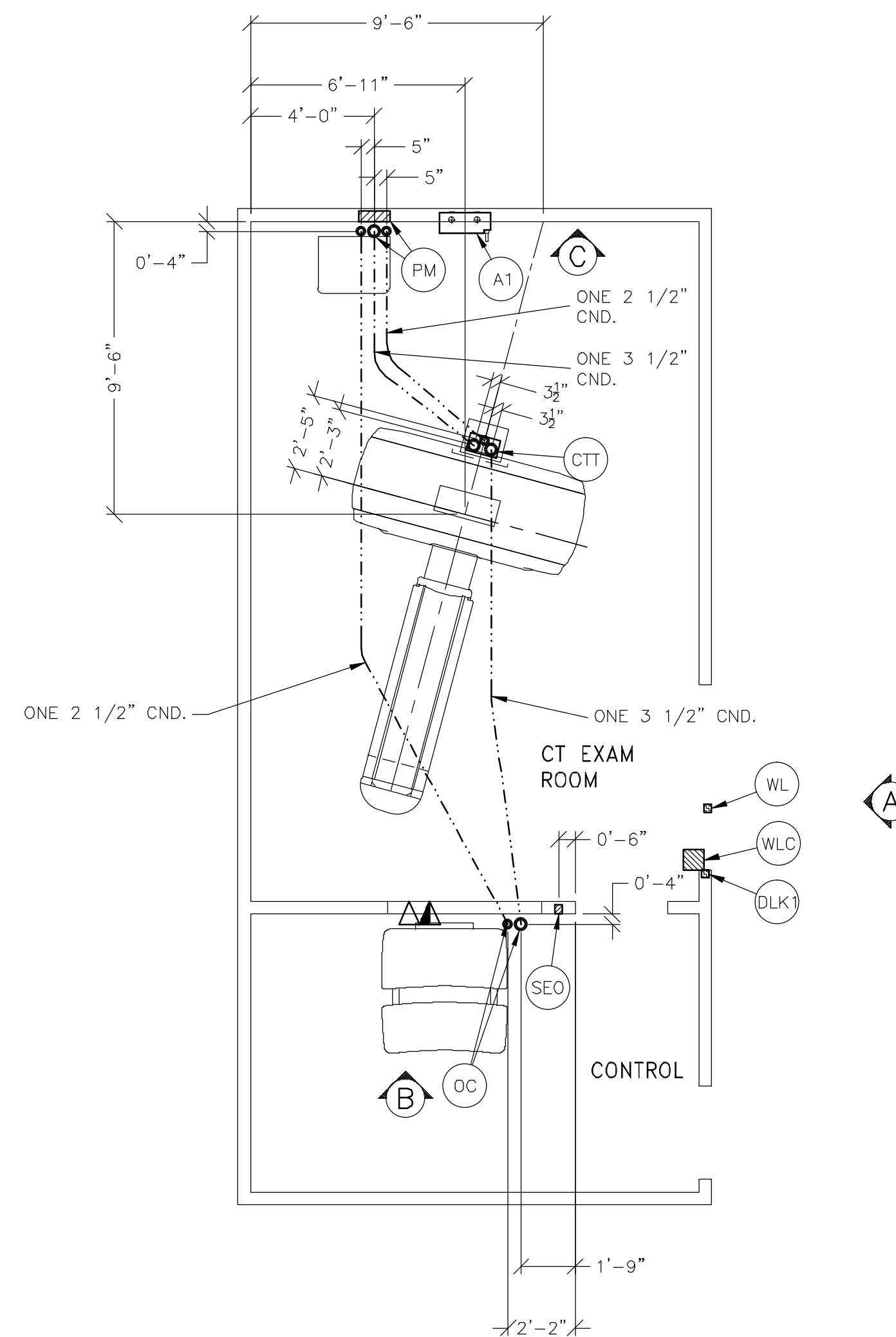
ELECTRICAL OUTLET LEGEND
CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS. HEIGHT ABOVE FLOOR DETERMINED BY LOCAL CODES UNLESS OTHERWISE SPECIFIED.

	DEDICATED TELEPHONE LINE(S) (SEE ELECTRICAL DETAIL ELEC-1 OR ELEC-67)
	NETWORK OUTLET (SEE ELECTRICAL DETAILS ELEC-83 AND ELEC-84 OR ELEC-87)
	DUPLEX HOSPITAL GRADE, DEDICATED WALL OUTLET 120-V, SINGLE PHASE POWER

JUNCTION POINT NOTES

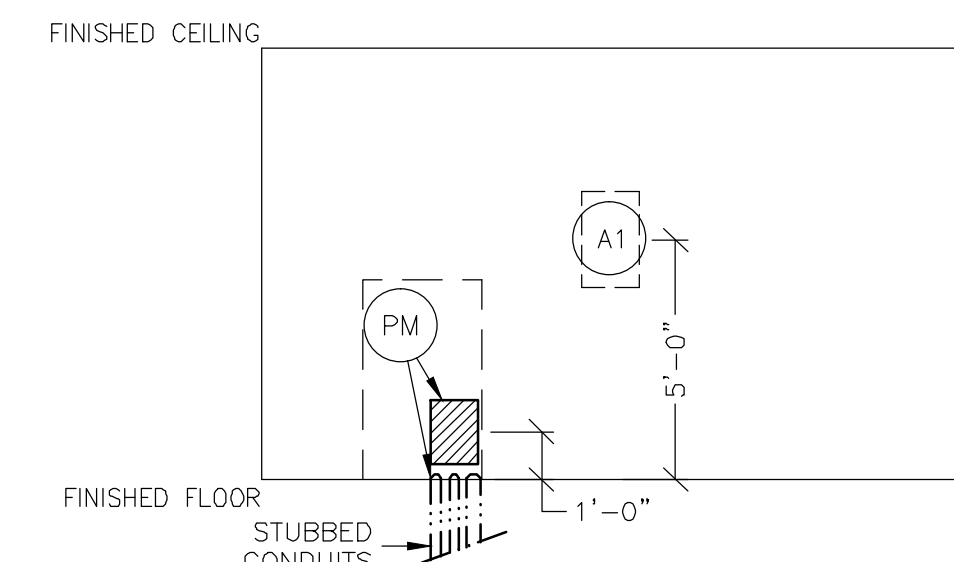
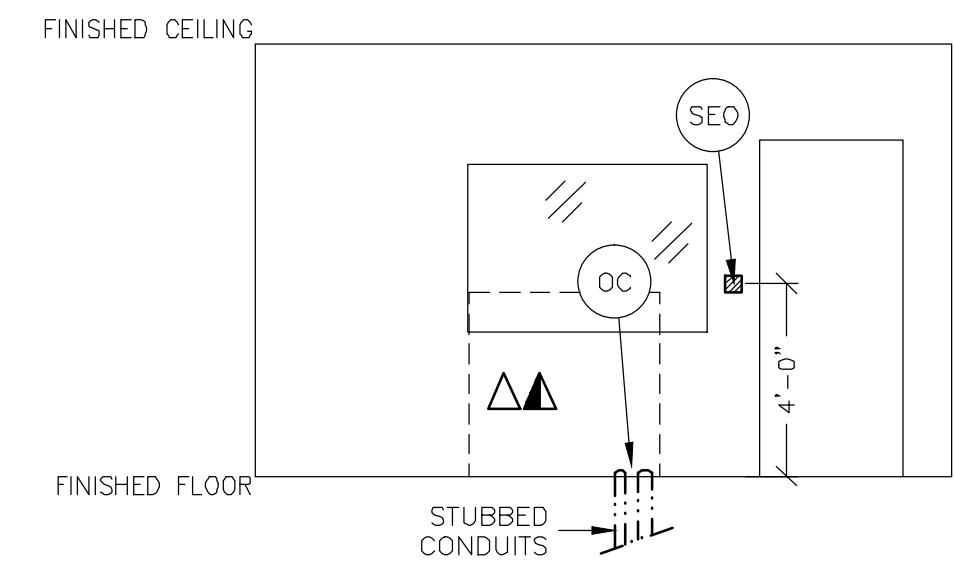
- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMER'S ELECTRICAL CONTRACTOR.
- CONDUIT AND DUCT RUNS SHALL HAVE SWEEP RADIUS BENDS.
- CONDUITS AND DUCT ABOVE CEILING OR BELOW FINISHED FLOOR MUST BE INSTALLED AS NEAR TO CEILING OR FLOOR AS POSSIBLE TO REDUCE RUN LENGTH.
- 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 THIN 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.

PLEASE SEE BELOW FOR ADDITIONAL REQUIRED CONDUIT RUNS AND SIZES.



JUNCTION POINT DESCRIPTIONS

POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
A1	MAIN DISCONNECT * AVAILABLE FROM GEHC CALL NO. E4502AE 800-558-5102 OR LOCAL PROJECT MGR	1	125 AMP FUSED DISCONNECT AND MAGNETIC CONTACTOR	ELEC-135
CTT	CT SCANNER	2	3 1/2 IN. DIA. BUSHING & LOCKNUT	ELEC-9
DLK1	DOOR SWITCH (NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)	1	ROOM DOOR INTERLOCK LIMIT SWITCH IN FRAME - NORMALLY OPEN (<24V) SINGLE GANG BOX	ELEC-9
OC	OPERATORS CONSOLE	1	3 1/2 IN. DIA. BUSHING & LOCKNUT	ELEC-9
PM	POWER DISTRIBUTION UNIT	1	SPLIT COVERPLATE	ELEC-9
		1	1/2 IN. DIA. BUSHING & LOCKNUT	ELEC-22
		1	1/2 IN. 90 DEGREE CONNECTOR	
		1	16 FT. LENGTH OF 5 IN. FLEXIBLE METAL CONDUIT	
		1	SUITABLE CONNECTORS	
		1	12 X 16 X 4 IN. BOX	
		1	16 FT. LENGTH OF 1/2 IN. FLEXIBLE METAL CONDUIT	
SEO	EMERGENCY OFF	1	SINGLE GANG 2 1/2 IN. DEEP FLUSH MOUNTED JUNCTION BOX	ELEC-16
WL	WARNING LIGHT	1	'X-RAY ON' INCANDESCENT LIGHT FIXTURE DO NOT USE FLUORESCENT FIXTURES	
		1	GE CAT. NO. X11ABW-DF-XIU	
WLC	WARNING LIGHT CONTROLLER * AVAILABLE FROM GEHC CALL NO. 800-558-5102 OR LOCAL PROJECT MGR	1	E4502RL WARNING LIGHT CONTROL MAX 24V CONTROLLER	ELEC-72



ADDITIONAL CONDUIT RUNS FOR ALL LIGHTSPEED, DISCOVERY, BRIGHTSPEED, OPTIMA SYSTEMS AND THE HISPEED QX/i (BY CONTRACTOR)

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

TO	FROM	CONDUIT SIZE	REVISION
WL	TO WLC	ONE 1/2" CND.	REV DATE: 08/09/10
WLC	TO PM	ONE 1/2" CND.	
PM	TO A1	ONE CND. AS REQ'D	
A1	TO SEO	ONE 1/2" CND.	
A1	TO FEEDER	ONE CND. AS REQ'D	
WLC	TO 120-V 1Ø POWER	CND. AS REQ'D	
DLK1	TO PM	ONE 1/2" CND.	

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

FEEDER TABLE - CT LightSpeed Pro 16/RT/VCT, DISCOVERY CT750/590, OPTIMA CT580

o CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
o MINIMUM FEEDER SIZES FROM DISTRIBUTION TRANS. TO POWER DISTRIBUTION UNIT.
o THE RECOMMENDED GROUNDING CONDUCTOR () WILL BE A 1/0 MINIMUM. THIS GROUND WILL RUN FROM THE EQUIPMENT BACK TO THE POWER SOURCE/MAIN GROUNDING POINT AND ALWAYS TRAVEL IN THE SAME CONDUIT WITH THE FEEDERS AND NEUTRAL.
o NEUTRAL MUST BE TERMINATED PRIOR TO OR INSIDE THE MAIN DISCONNECT PANEL AND NOT BROUGHT INTO THE POWER DISTRIBUTION UNIT.
o FOR A FULL SYSTEM UPS REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE					
	342-418 380	360-440 400	378-462 420	396-484 440	414-506 460	432-528 480
50	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
100	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
150	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
200	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
250	2/0 (1/0)	2/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)
300	3/0 (1/0)	3/0 (1/0)	2/0 (1/0)	2/0 (1/0)	1/0 (1/0)	1/0 (1/0)
350	4/0 (1/0)	3/0 (1/0)	3/0 (1/0)	2/0 (1/0)	2/0 (1/0)	1/0 (1/0)
400	250M (1/0)	4/0 (1/0)	3/0 (1/0)	3/0 (1/0)	3/0 (1/0)	2/0 (1/0)

REV. DATE: 18.May.11

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
WLC > 1 PHASE	1-ND 14 BLACK, 1-ND 14 WHITE, 1-ND 14 GREEN
WL > WLC	2-ND 14 BLACK, 1-ND 14 RED, 1-ND 14 WHITE
PM > WLC	2-ND 14 BLACK, 2-ND 14 WHITE, 1-ND 14 GREEN
PM > DLK1	1-ND 14 BLACK, 1-ND 14 WHITE, 1-ND 14 GREEN
A1 > SEO	1-ND 14 BLACK, 1-ND 14 WHITE, 1-ND 14 GREEN
A1 > PDU	3-BLACK, 1 GREEN - REFER TO FEEDER TABLE
480V > A1	3 BLACK, 1 GREEN - REFER TO FEEDER TABLE

GE Healthcare
IS Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL LAYOUT
MODALITY TYPE: LIGHTSPEED VCT W/ GT1700

PROJECT TITLE: 6-54f
TYPICAL LAYOUT
(1700 TABLE)

PROJECT	REVISION
6-54f	02

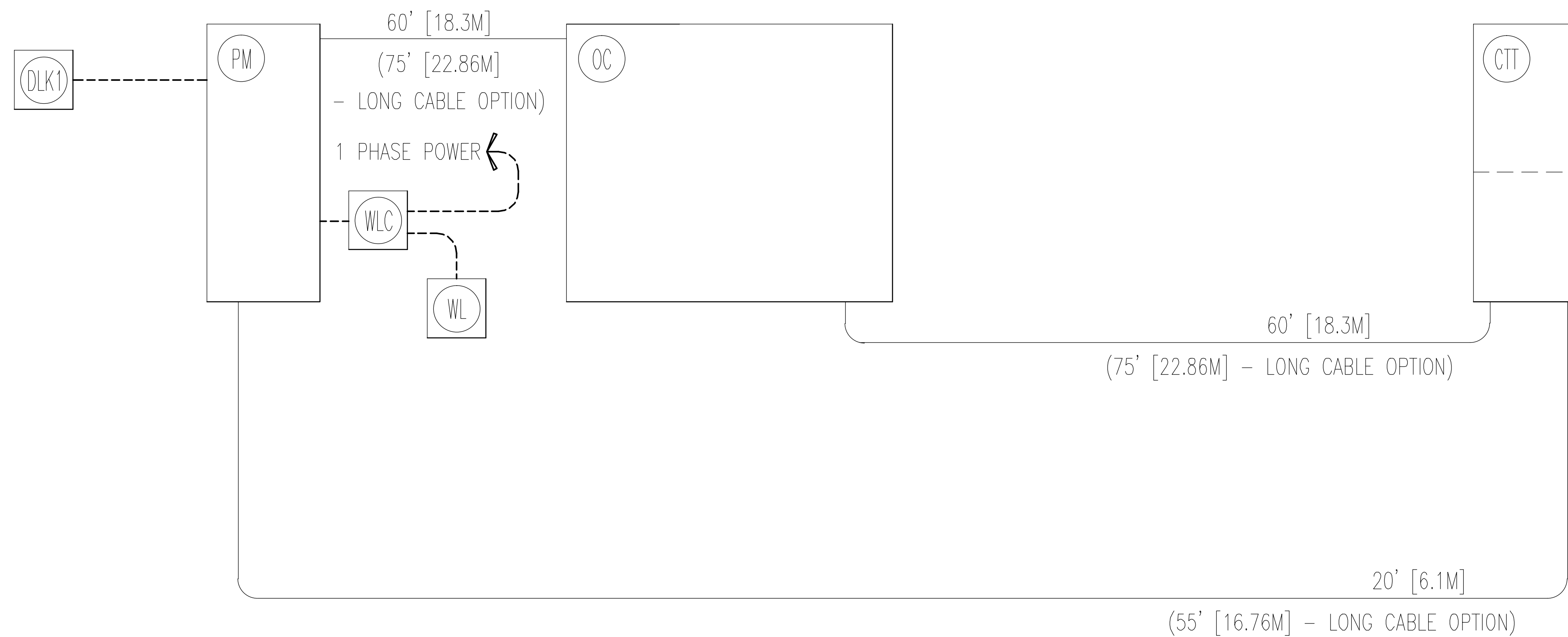
DATE: 27.Sep.12
DRAWN BY: JCA
CHECKED BY: PMM

REVISION HISTORY:

SHEET
E1

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

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

CT LightSpeed Pro 16/RT/VCT, DISCOVERY CT750/590, OPTIMA CT580

(REV. DATE 18.May.11)

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

TABLE A ALLOWABLE INPUT VOLTAGES/CURRENT DEMAND

NOMINAL VOLTAGE	ABSOLUTE RANGE	CURRENT (AMPS)		MINIMUM STANDARD OVERCURRENT PROTECTION
		MAXIMUM	CONTINUOUS	
380	342-418	253	38	150-A
400	360-440	241	36	150-A
420	378-462	229	34	150-A
440	396-484	219	33	125-A
460	414-506	209	31	125-A
480	432-528	200	30	125-A

(ALL 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 2.5 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 CONTINUOUS POWER DEMAND = 25 KVA (MAX DEMAND = 150 KVA)

TABLE B MAXIMUM MOMENTARY POWER DEMAND.

DEMAND	CT HiSpeed
kVa *	150
POWER FACTOR AT	0.85

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

DISTRIBUTION TRANSFORMER FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 225 KVA. GE DOES NOT RECOMMEND USING A REGULATION DEVICE.

NOTE: THE CT SYSTEM MUST NOT BE POWERED IN A MULTIPLE INSTALLATION WHERE FILM CHANGERS ARE USED. FILM CHANGERS UTILIZE A LARGE NUMBER OF HIGH POWERED CLOSELY SPACED EXPOSURES WHICH MAY COINCIDE WITH THE CT SCAN.

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.

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]

SHEET TITLE: ELECTRICAL SPECIFICATIONS
MODALITY TYPE: LIGHTSPEED VCT W/ GT1700

THIS PLAN IS SUBMITTED TO SURVEY 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 TO DETAILS AND CONDITIONS OF THE CONTRACT. THE COMPANY SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
6-54f
TYPICAL LAYOUT
(1700 TABLE)

PROJECT	REVISION
6-54f	02
DATE:	27.Sep.12
DRAWN BY:	JCA
CHECKED BY:	PMM

REVISION HISTORY:

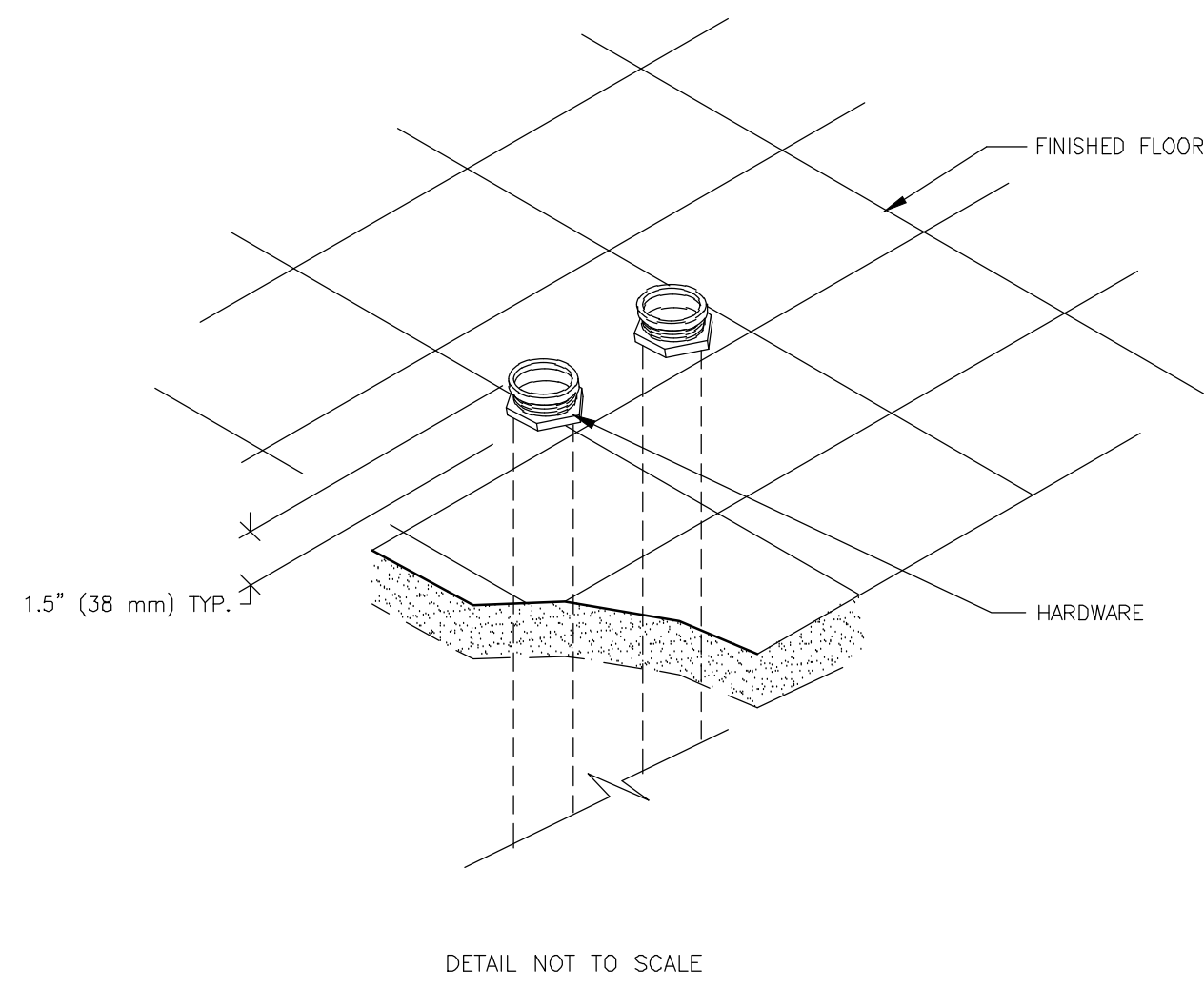
SHEET
E2

GE Healthcare
IS Services Design Center
Minneapolis, Wisconsin

PIM R19

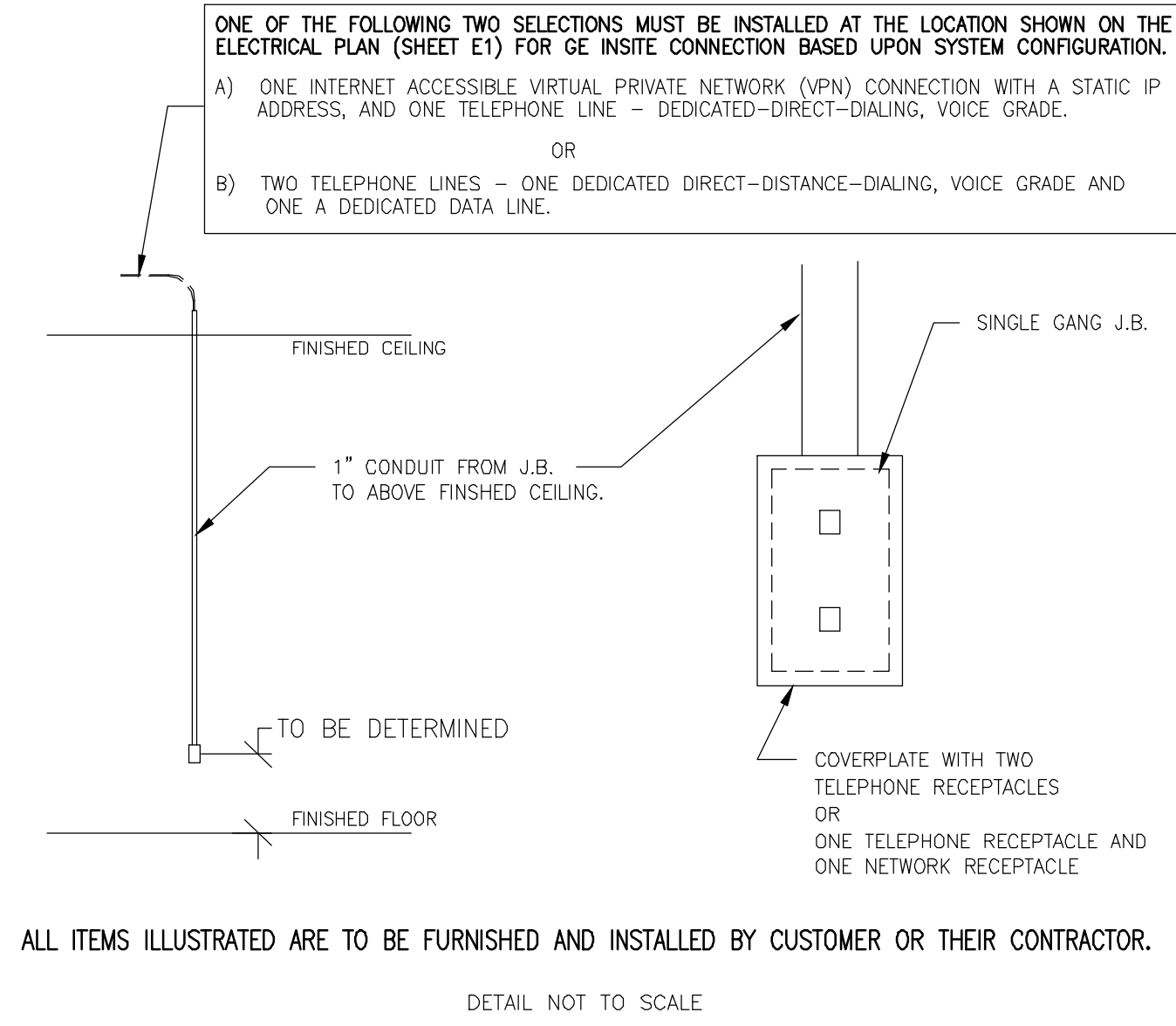
ELECTRICAL DETAIL
CONDUITS THRU-FLOOR (TYPICAL)

ELEC-9
REV. DATE: 08/08/94



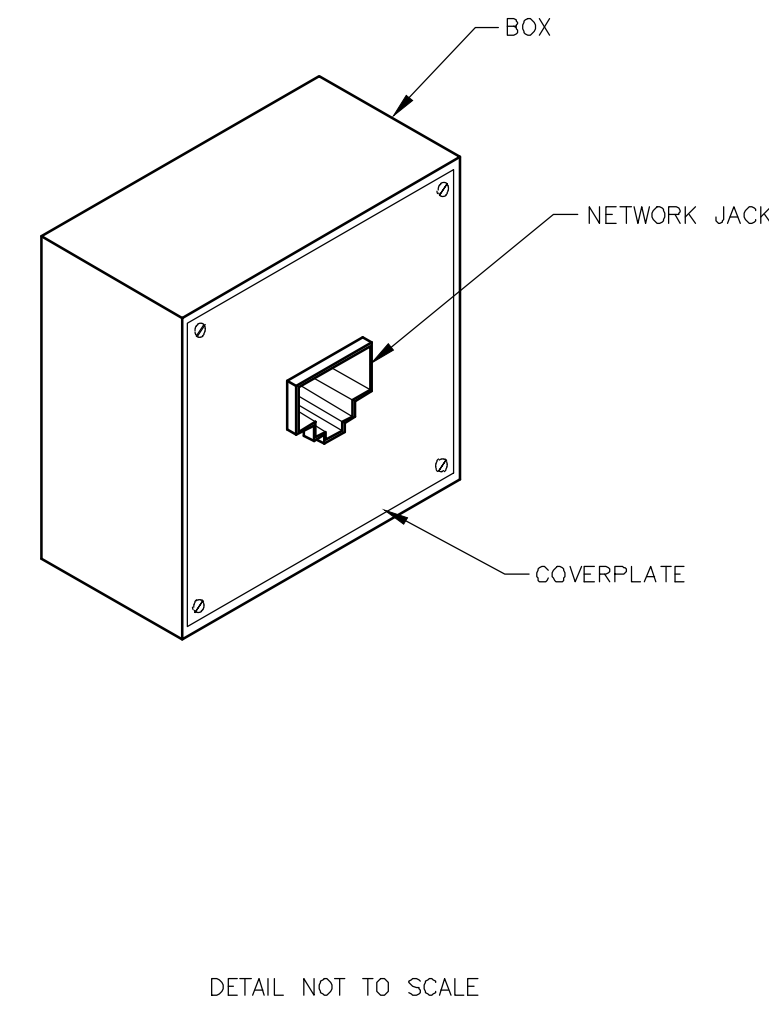
ELECTRICAL DETAIL
INSITE CONNECTION (TYPICAL)

ELEC-1
REV. DATE: 04/24/02



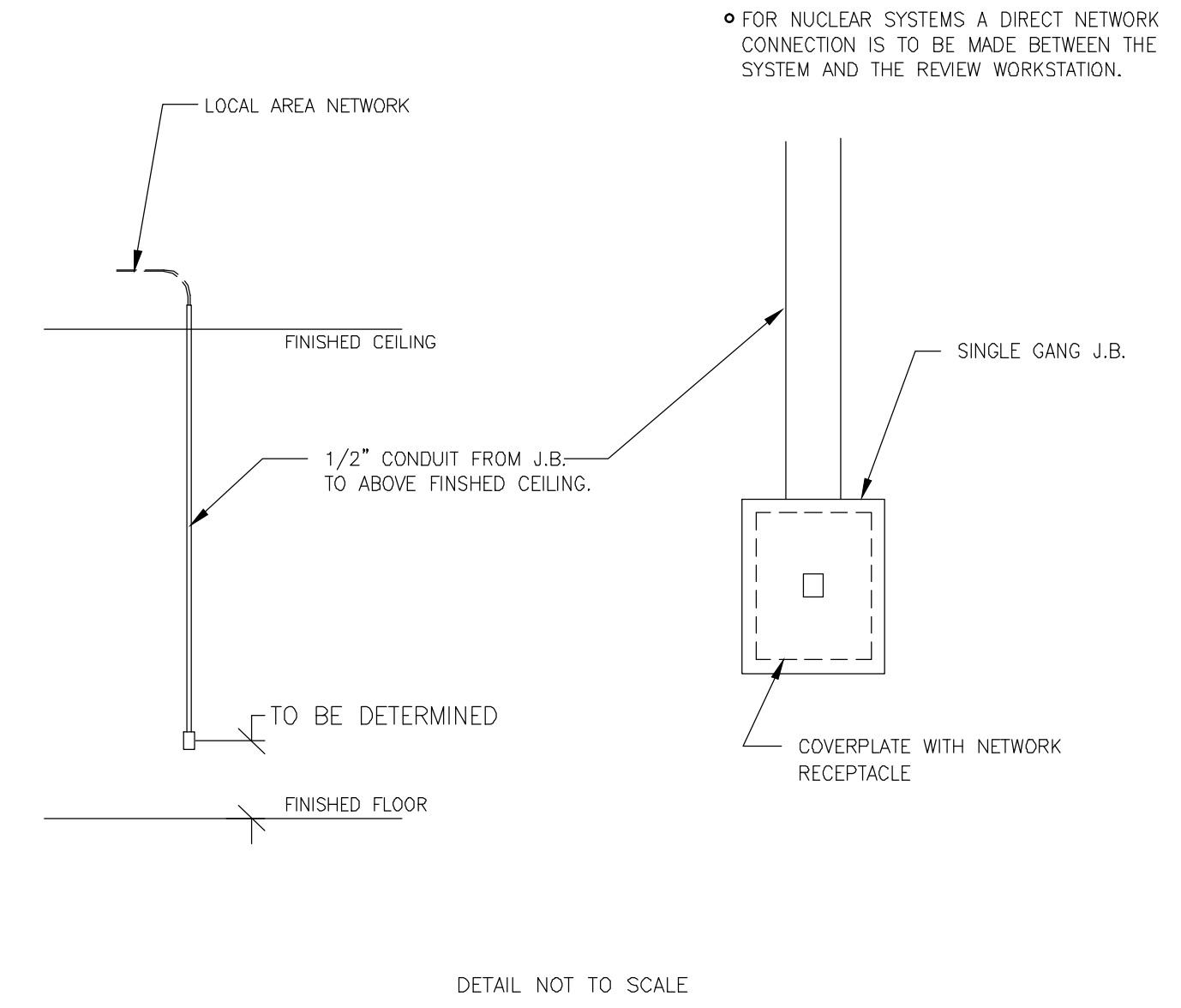
ELECTRICAL DETAIL
BOX WITH COVERPLATE AND NETWORK JACK

ELEC-83
REV. DATE: 10/06/98



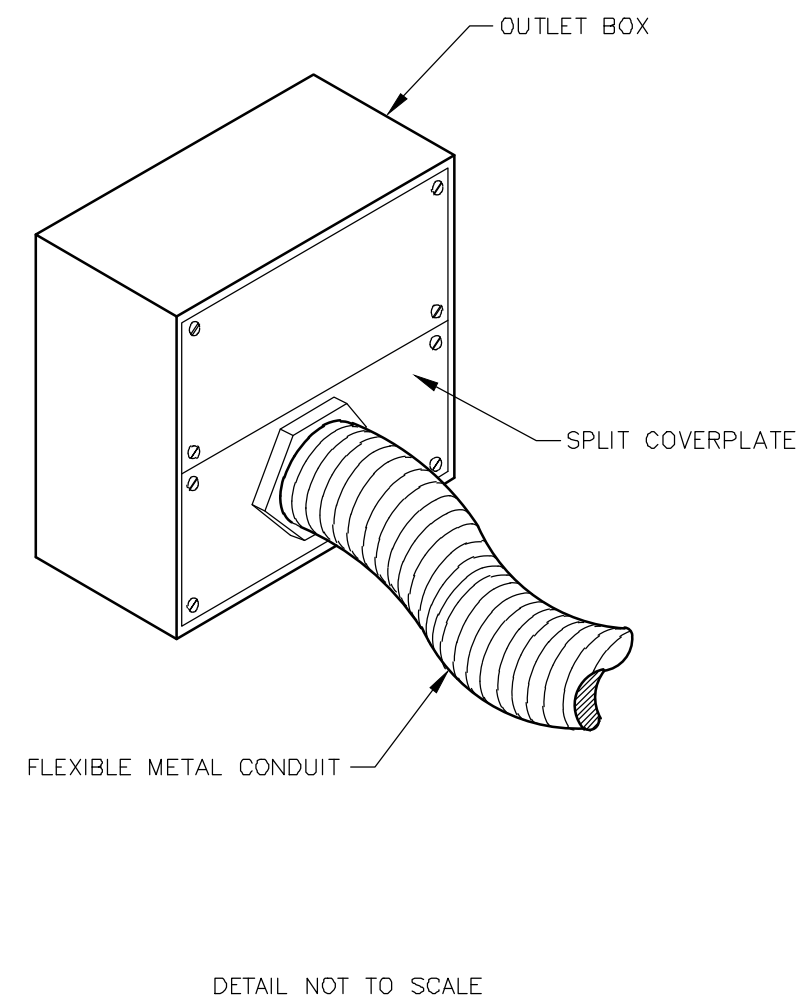
ELECTRICAL DETAIL
NETWORK CONNECTION (TYPICAL)

ELEC-84
REV. DATE: 03/06/04



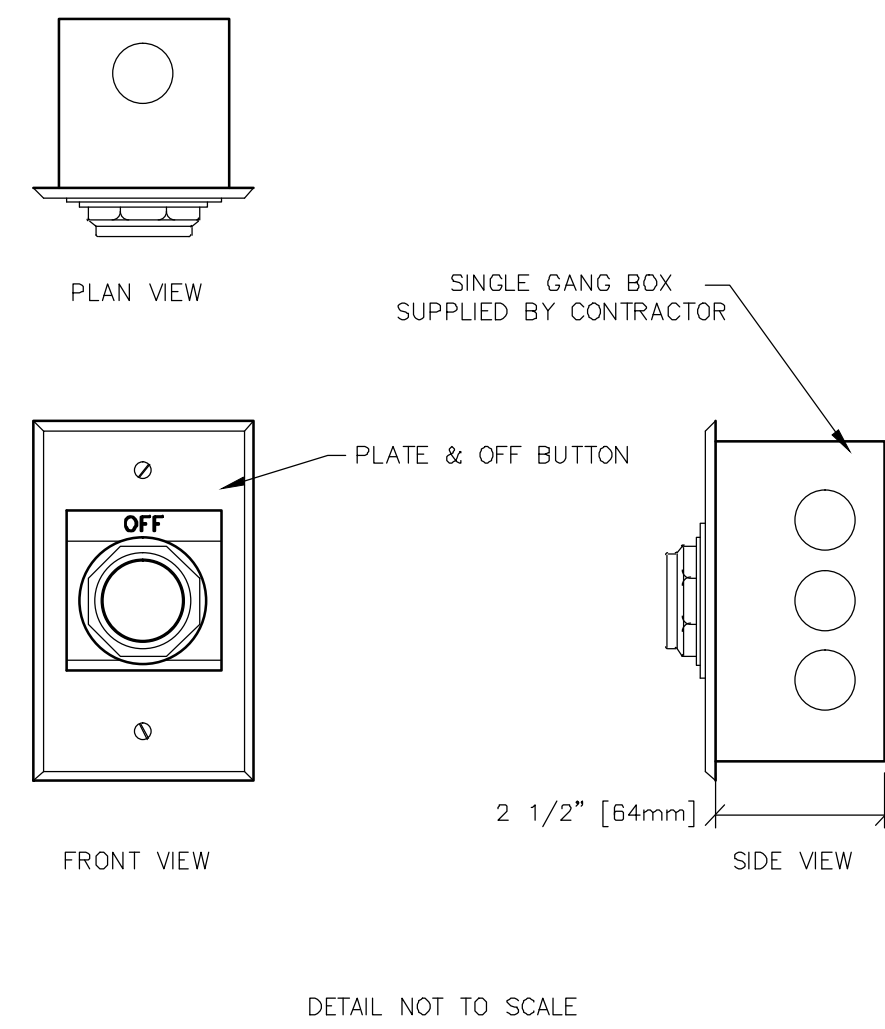
ELECTRICAL DETAIL
BOX WITH SPLIT COVERPLATE (TYPICAL)

ELEC-22
REV. DATE: 10/13/94



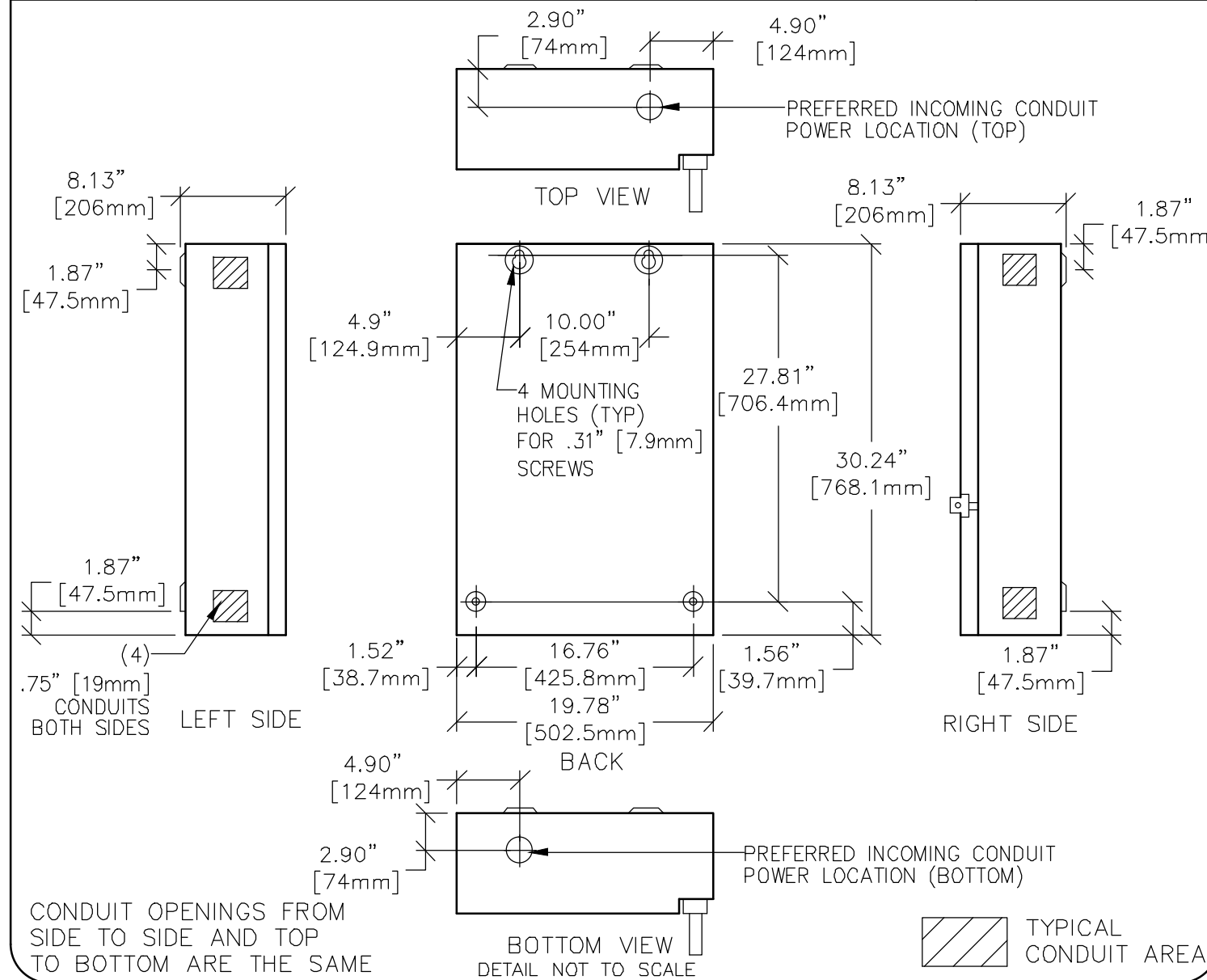
ELECTRICAL DETAIL
EMERGENCY OFF BUTTON

ELEC-16
REV. DATE: 05/14/09



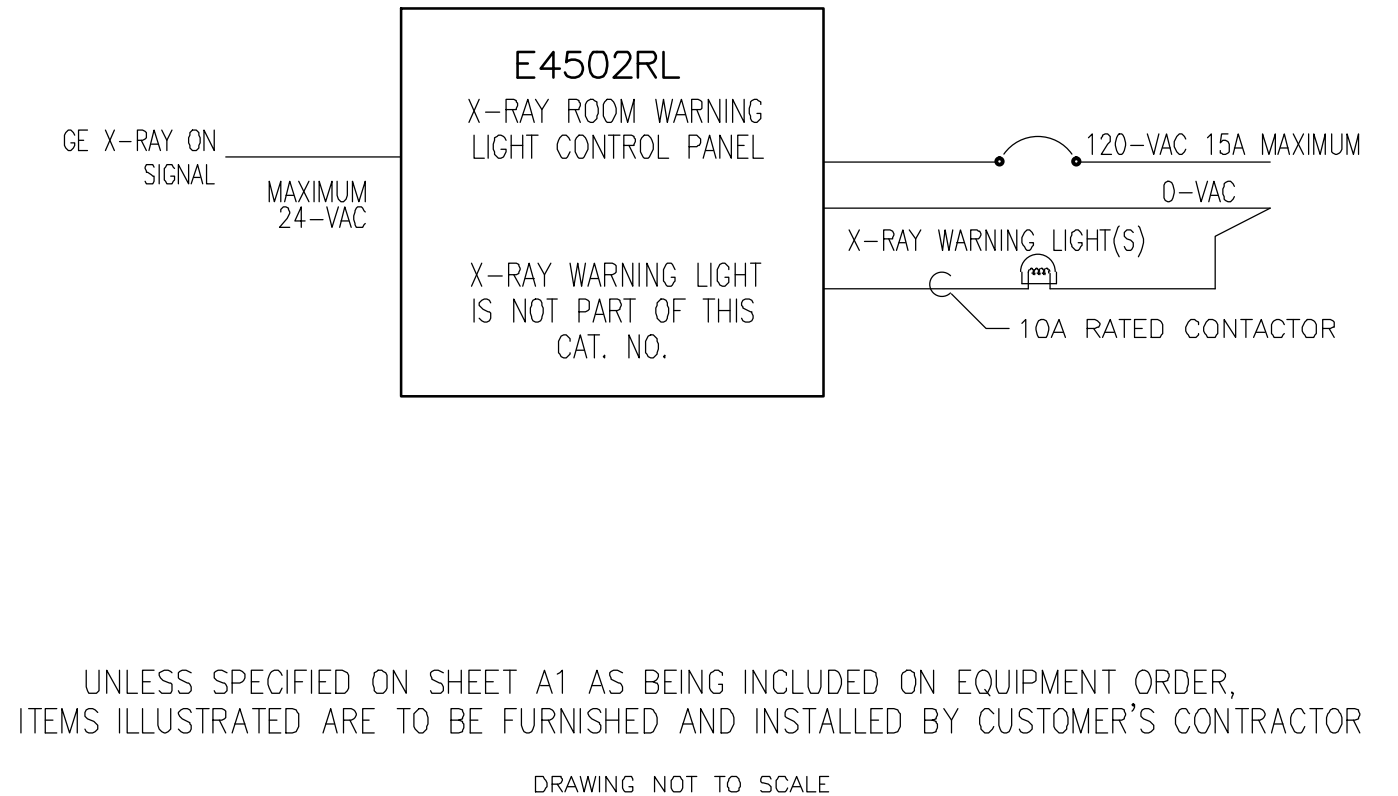
ELECTRICAL DETAIL
MAIN DISCONNECT PANEL

ELEC-135
REV. DATE: 09/27/04



ELECTRICAL DETAIL
WARNING LIGHT DIAGRAM

ELEC-72
REV. DATE: 05/14/09



SHEET TITLE: ELECTRICAL DETAILS
MODALITY TYPE: LIGHTSPEED VCT W/ GT1700
THIS PLAN IS SUBMITTED TO SUPPORT LOCATION OF HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72). THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
6-54f
TYPICAL LAYOUT
(1700 TABLE)

PROJECT	REVISION
6-54f	02

DATE: 27.Sep.12
DRAWN BY: JCA
CHECKED BY: PMM

REVISION HISTORY:

SHEET
E3

PIM R19

