

Drawing Index

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

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These 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 operation of such equipment in compliance with GE Healthcare's written specifications and all applicable federal, state, and/or local requirements.

*** REQUIRED REFERENCE ***

Discovery CT Series Pre Installation Manual 5220253–1EN

A mandatory component of this drawing set is the GE Healthcare Pre Installation manual. Failure to reference the Pre Installation 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

GE Healthcare Site Readiness Checklist Rev 19

Before using this document ensure you have the latest Rev from MyWorkshop on DOC0422752

GEHC Global Order # :Customer:

GEHC PMI:FE / Installer:

The customer is responsible for proper site preparation regardless of any GEHC measurements/inspections/assessments.

Inspection Date:					Storage is item ready?	PMI is item ready?	FE ready?	Comments If "N", enter comments or action plan
GEHC Minimum Requirements								
1	MR Magnet Delivery Requirements:	Ensure cryogen venting system is available for magnet connection as defined by GEHC Pre-Installation Manual (PIM) requirements, exhaust fan system is installed and operational, 480V power, and chilled water supply is available 24x7 that meets system cooling requirements. External connectivity is available for magnet monitoring and phone service is available during delivery. Surface mount vibromat 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 3dskin@GE-Healthcare.com, that it is compliant with GEHC specifications. Dock Bolt and magnet anchors (if applicable) installed using 2 part anchor. For HDx systems, blower box mount bolts installed by RF vendor using 2 part anchors						
3	State Regulatory Requirements:	Facility registration number provided for states of <u>IL, KY, HI, RI, SC, TX, LA, WA</u> . K-ray shielding plan and state acknowledgment letter provided to installer for <u>AR, DC, NC, SC, CO</u> & <u>WA</u>						
4	Site Drawing Requirements:	Final version of 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, rollback truck, etc)						
7	Finished Room Requirements:	Rooms that will contain equipment, including storage areas not in scan suite, are dust free. Provisions taken to maintain a 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 these security issues, implications and responsibility. For Storage: Room must meet PIM requirements for storage.						
8	Electrical Requirements:	Lockable (LOTO) Main Disconnect Panel (MDP) is installed per GE guidelines, and system power is available. Conduits, electrical cable ducting/dividers/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 spec/PIM 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 (or equivalent) location, levelness and spacing is measured (or vendor confirmed) and consistent with the requirement of the installation drawings. Ensure unistrut and rails are not used as mounting surfaces. Ceiling grid is installed. Permanent lighting is installed and operational. HVAC diffusers are installed and connected to ductwork. Ceiling tiles installed per PIM discretion						
12	Staging Requirements:	Space has been identified to support the active installation process only. This area meets PIM/project book 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 PIM requirements						
13	Network Connectivity:	Hardware for network connectivity/network drop is in place prior to delivery with specified network firewall configuration where required. Site Surveys for wireless mobile XR units have been completed						
14	Medical Gases Requirements:	Systems (hard piped or portable) in place to allow testing and calibration of equipment (anesthesia), including ventilation.						

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Healthcare Project Implementation – Design Center
Milwaukee, Wisconsin
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SHEET TITLE: SITE READINESS

MODALITY TYPE: DISCOVERY CT750 HD

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 THE LATEST GEHC PIM. IT IS THE USER'S RESPONSIBILITY TO VERIFY ALL INFORMATION FOR ACTUAL CONSTRUCTION PURPOSES. GE HEALTHCARE SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
6–70f
TYPICAL FINAL
(w/ GT2000 TABLE)

PROJECT	REVISION
6–70f	07
DATE:	19.May.16
DRAWN BY:	DMH
CHECKED BY:	DJP

REVISION HISTORY:

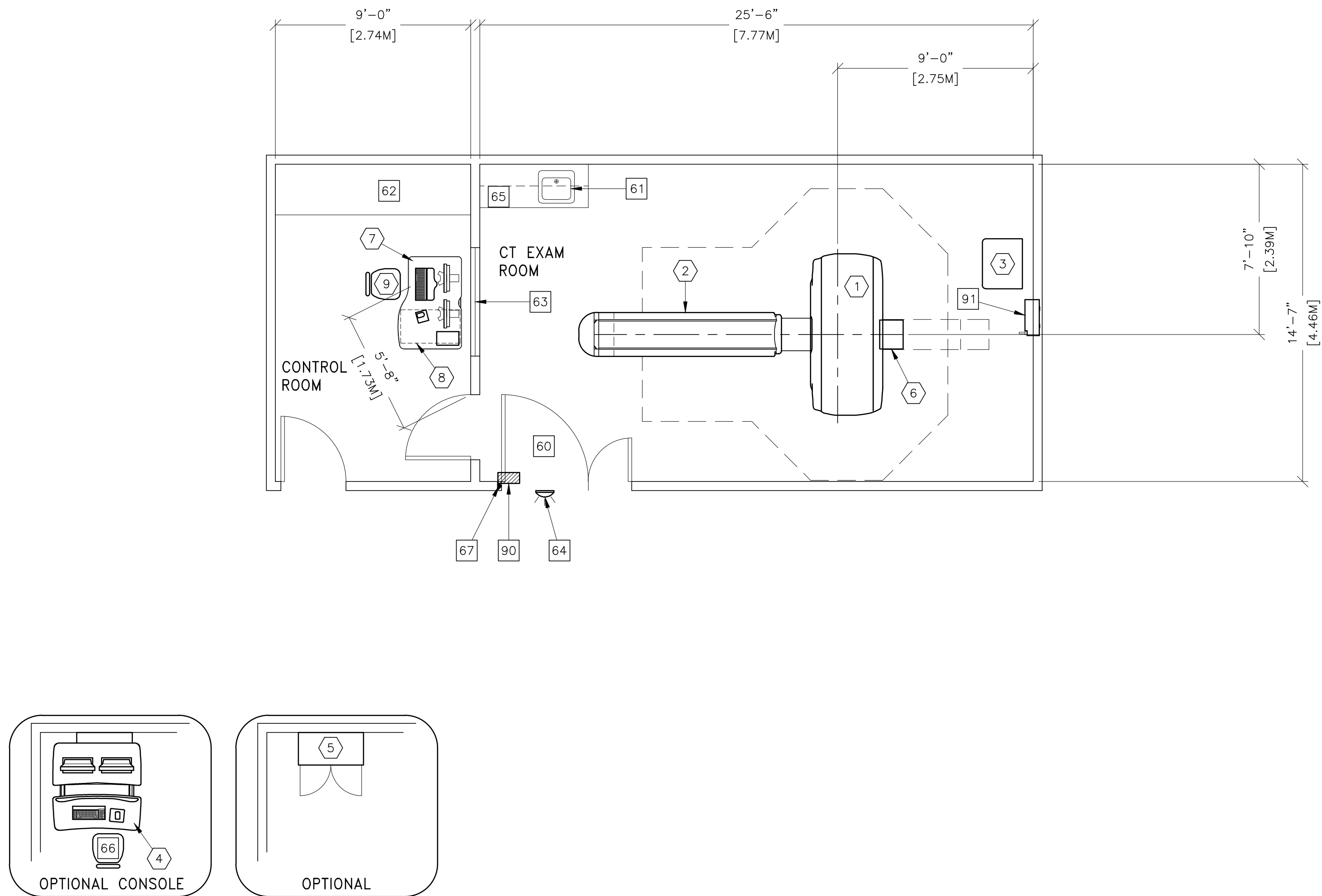
SHEET

C1

[illegible]

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.

RECOMMENDED CEILING HEIGHT = 9'-0"



CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED
ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	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
61	COUNTER TOP WITH SINK, BASE AND WALL CABINETS
62	COUNTER TOP FOR EQUIPMENT-MINIMUM DEPTH 30 in. OR ADDITIONAL SHELVING MAY BE REQUIRED
63	PROVIDE GROMMETED OPENINGS AS REQUIRED TO ROUTE INTERCONNECT CABLES TO RACEWAY BELOW COUNTERTOP
64	LEAD GLASS WINDOW
65	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL: 800-200-9760 GE CAT. NO. WXIABWW-OF-XIU
66	CASEWORK REQUIRED WITH A MINIMUM OF 16 CUBIC FEET TO STORE ALL SERVICE MATERIALS
67	OPERATOR'S CHAIR
68	DOOR LIMIT SWITCH
69	REQUIRED IN SOUTH CAROLINA, OTHERWISE NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)

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

90 X-RAY ROOM WARNING LIGHT CONTROL PANEL
REFERENCE JUNCTION POINT 'WLC' ON SHEET 'E1'
FOR DETAILED DESCRIPTION -E4502RL FOR WARNING
LIGHT CONTROL ONLY.

91 MAIN DISCONNECT CONTROL
GEMS CAT. NO E4502AE
125 lbs., SEE DETAIL E4502AE.

- o THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR LOCAL GEHC IS SPECIALIST REGARDING ACCEPTABILITY OF OTHER CEILING HEIGHTS.
- o 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.
- o 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.
- o 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..
- o ALL WORK TO BE IN COMPLIANCE WITH NATIONAL AND LOCAL BUILDING SAFETY CODES.
- o DIMENSIONS ARE TO FINISHED SURFACES OF ROOM

- o AMBIENT OPERATING TEMPERATURE:
 - o SCAN ROOM: TEMPERATURE RANGE 64°-79° F (18°-26° C)
 - o CONTROL ROOM: MAINTAIN TEMPERATURE AT 64°-79° F (18°-26° C)
 - o EQUIPMENT ROOM (IF SEPARATE): TEMPERATURE RANGE 64°-79° F (18°-26° C)
- o MAXIMUM TEMPERATURE RATE OF CHANGE OF 5° F (3° C)/HOUR.
- o HUMIDITY: 30 TO 60 PERCENT NON-CONDENSING DURING OPERATION (ALL AREAS)
- o MAXIMUM RELATIVE HUMIDITY RATE OF CHANGE IS 5 PER CENT RH/HOUR.
- o ALTITUDE: NOT TO EXCEED 7,875 FT. (2400M) ABOVE SEA LEVEL.
- o THE ENVIRONMENT FOR THE ELECTRONICS CABINET MUST BE CONTROLLED SO THE FOLLOWING RESTRICTIONS ARE MET:
 - o DO NOT RESTRICT THE AIR INTAKE OR AIR EXHAUST OF THE SYSTEM COMPONENTS
 - o ENVIRONMENTAL CONDITIONS LISTED ABOVE MUST BE MAINTAINED AT ALL TIMES INCLUDING FOR EXAMPLE OVERNIGHT, WEEKENDS, AND HOLIDAYS.

o	CT Gantry must be located in ambient static magnetic fields of less than 1 GAUSS to guarantee specified imaging performance. Ambient AC magnetic fields must be below 0.01 GAUSS peak.		
o	CT computer equipment must be located in ambient static magnetic fields of less than ten GAUSS to guarantee data integrity.		
o	CT control equipment must be located in ambient static magnetic fields of less than listed below to obtain specified geometric linearity.		
	<table border="0"> <tr> <td>CONSOLE/COMPUTER</td> <td>10 GAUSS</td> </tr> </table>	CONSOLE/COMPUTER	10 GAUSS
CONSOLE/COMPUTER	10 GAUSS		

RQ - 160799 PIM R14

SHEET

A1

NFSH-1000

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Milwaukee, Wisconsin

TYPICAL WALL SUPPORT ELEVATIONS

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

OPTIONAL CONSOLE

STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	LEVELING AREA FOR GANTRY AND TABLE SEE DETAIL B7B-64 ON SHEET S2.

STRUCTURAL NOTES

- ALL STEEL WORK AND PARTS NECESSARY TO SUPPORT CEILING MOUNTED EQUIPMENT IS TO BE SUPPLIED BY THE CUSTOMER OR HIS CONTRACTORS.
- 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.
- 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.
- ALL CEILING MOUNTED FIXTURES, AIR VENTS, SPRINKLERS, ETC. TO BE FLUSH MOUNTED, OR SHALL NOT EXTEND MORE THAN 1/4" BELOW THE FINISHED CEILING.
- FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 1/4" in 10'-0"
- DIMENSIONS ARE TO FINISHED SURFACES OF ROOM.
- CUSTOMERS CONTRACTOR MUST PROVIDE ALL PENETRATIONS IN POST TENSION FLOORS.
- CUSTOMERS CONTRACTOR MUST PROVIDE AND INSTALL ANY NON-STANDARD ANCHORING. DOCUMENTS FOR STANDARD ANCHORING METHODS ARE INCLUDED WITH GE EQUIPMENT DRAWINGS FOR GEOGRAPHIC AREAS THAT REQUIRE SUCH DOCUMENTATION.
- 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.
- IT IS THE CUSTOMER'S RESPONSIBILITY TO PERFORM ANY FLOOR OR WALL PENETRATIONS THAT MAY BE REQUIRED. THE CUSTOMER IS ALSO RESPONSIBLE FOR ENSURING THAT NO SUBSURFACE UTILITIES (E.G., ELECTRICAL OR ANY OTHER FORM OF WIRING, CONDUITS, PIPING, DUCT WORK OR STRUCTURAL SUPPORTS (I.E. POST TENSION CABLES OR REBAR)) WILL INTERFERE OR COME IN CONTACT WITH SUBSURFACE PENETRATION OPERATIONS (E.G. DRILLING AND INSTALLATION OF ANCHORS/SCREWS) PERFORMED DURING THE INSTALLATION PROCESS. TO ENSURE WORKER SAFETY, GE INSTALLERS WILL PERFORM SURFACE PENETRATION OPERATIONS ONLY AFTER THE CUSTOMER'S VALIDATION AND COMPLETION OF THE "GE SURFACE PENETRATION PERMIT"

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Healthcare Project Implementation – Design Center
Milwaukee, Wisconsin

SHEET TITLE: STRUCTURAL LAYOUT

MODALITY TYPE: DISCOVERY CT750 HD

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PROJECT TITLE:

6-70f
TYPICAL FINAL
(W/ GT2000 TABLE)

PROJECT	REVISION
6-70f	07

DATE: 19.May.16
DRAWN BY: DMH
CHECKED BY: DJP

REVISION HISTORY:

SHEET

S1

RQ - 160799

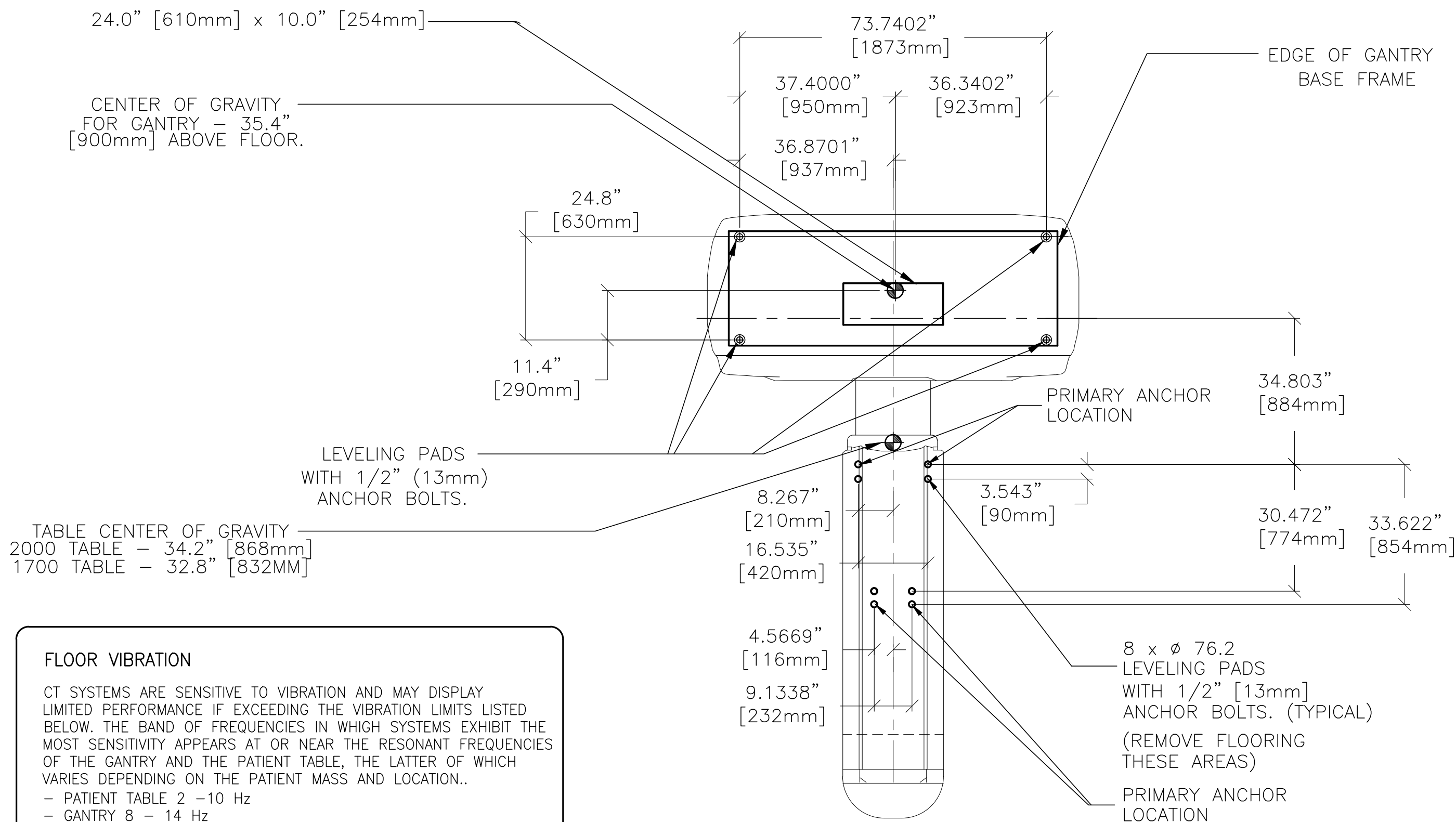
PM R14

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

DISCOVERY CT SERIES GANTRY AND TABLE ANCHOR/LEVELING

B7867

REV. DATE: 27.Mar.15



FLOOR VIBRATION

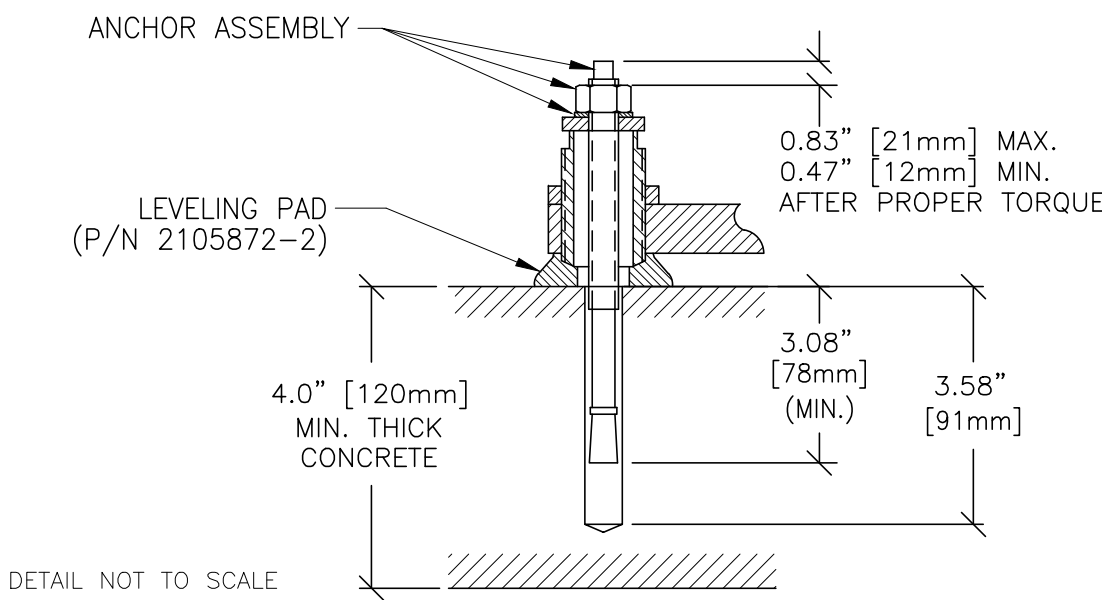
CT SYSTEMS ARE SENSITIVE TO VIBRATION AND MAY DISPLAY LIMITED PERFORMANCE IF EXCEEDING THE VIBRATION LIMITS LISTED BELOW. THE BAND OF FREQUENCIES IN WHICH SYSTEMS EXHIBIT THE MOST SENSITIVITY APPEARS AT OR NEAR THE RESONANT FREQUENCIES OF THE GANTRY AND THE PATIENT TABLE, THE LATTER OF WHICH VARIES DEPENDING ON THE PATIENT MASS AND LOCATION..

- PATIENT TABLE 2 -10 Hz
- GANTRY 8 - 14 Hz

PLEASE VERIFY WITH PIM FOR LATEST VIBRATION SPECIFICATIONS

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.



SHEET TITLE: STRUCTURAL DETAILS

MODALITY TYPE: DISCOVERY CT750 HD

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 THE ACTUAL CONSTRUCTION. HOWEVER, THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

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6-70f
TYPICAL FINAL
(W/ GT2000 TABLE)

PROJECT	REVISION
6-70f	07
DATE:	19.May.16
DRAWN BY:	DMH
CHECKED BY:	DJP

REVISION HISTORY:

SHEET

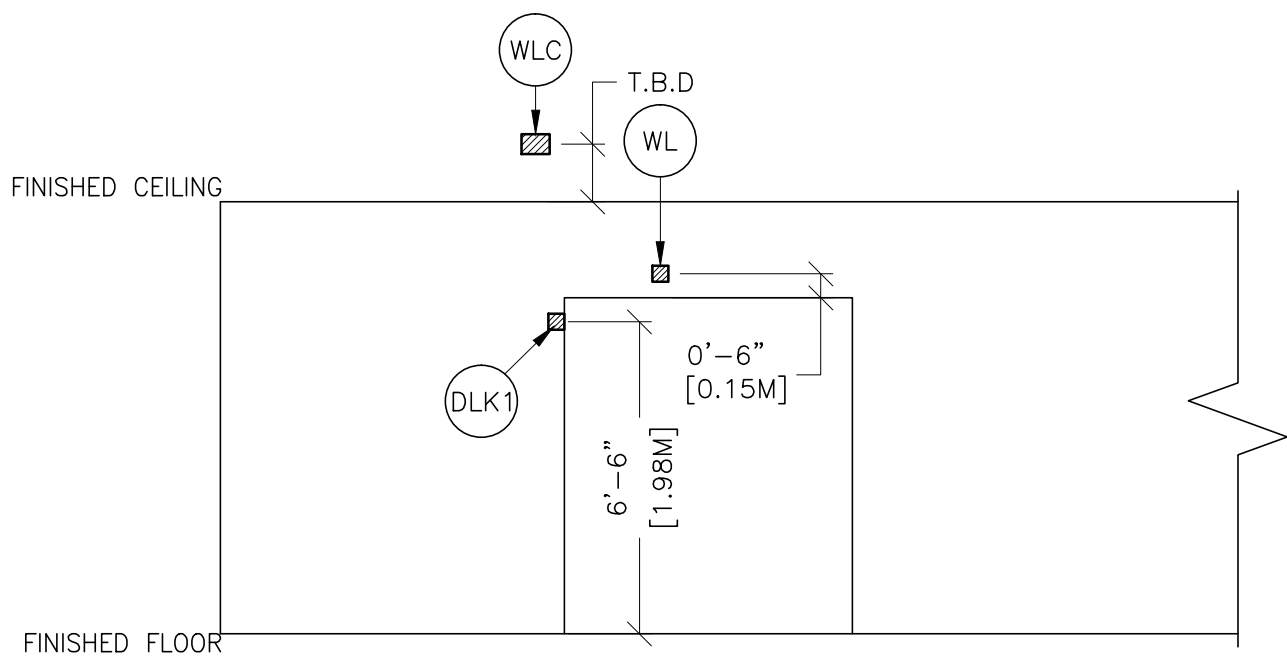
S2

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

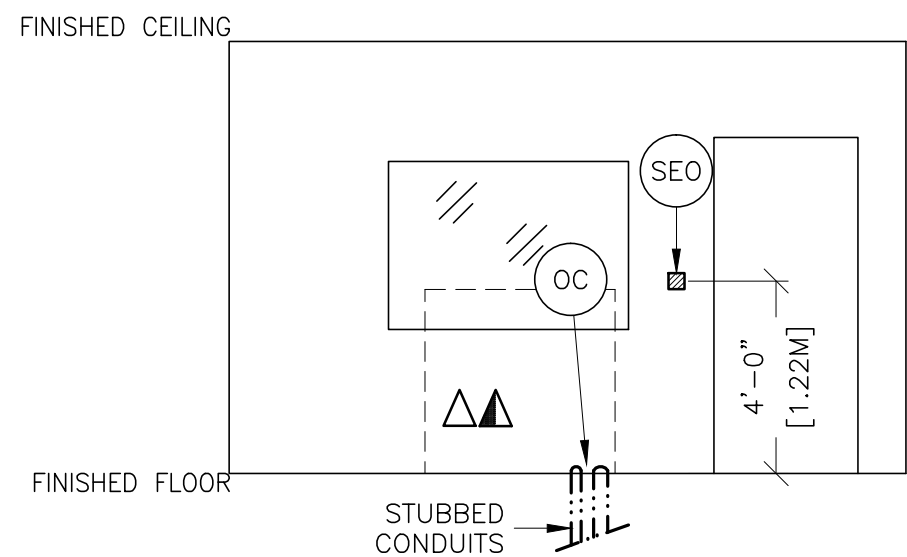
ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 9'-0"

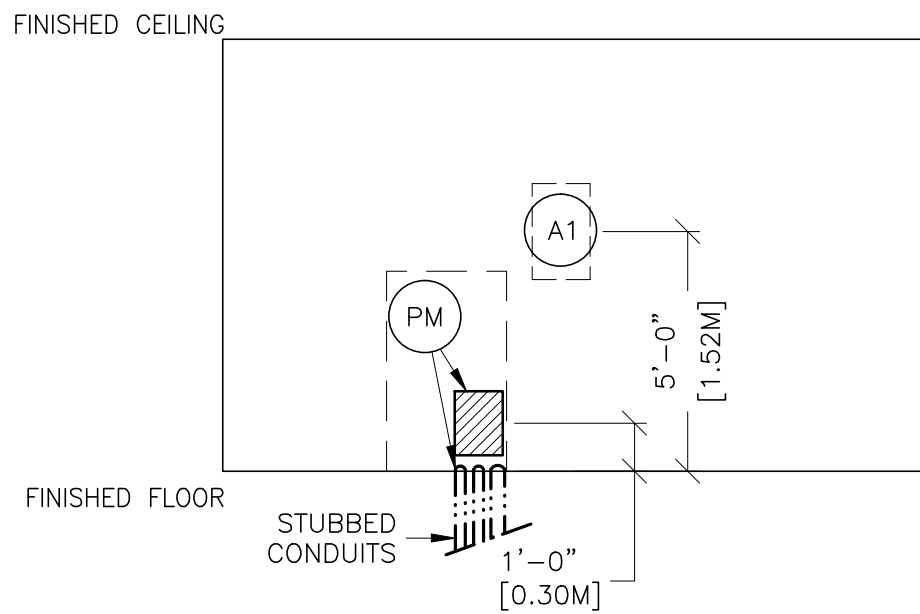
JUNCTION POINT DESCRIPTIONS



A



B

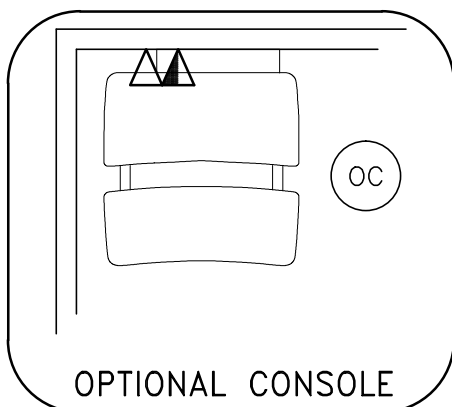
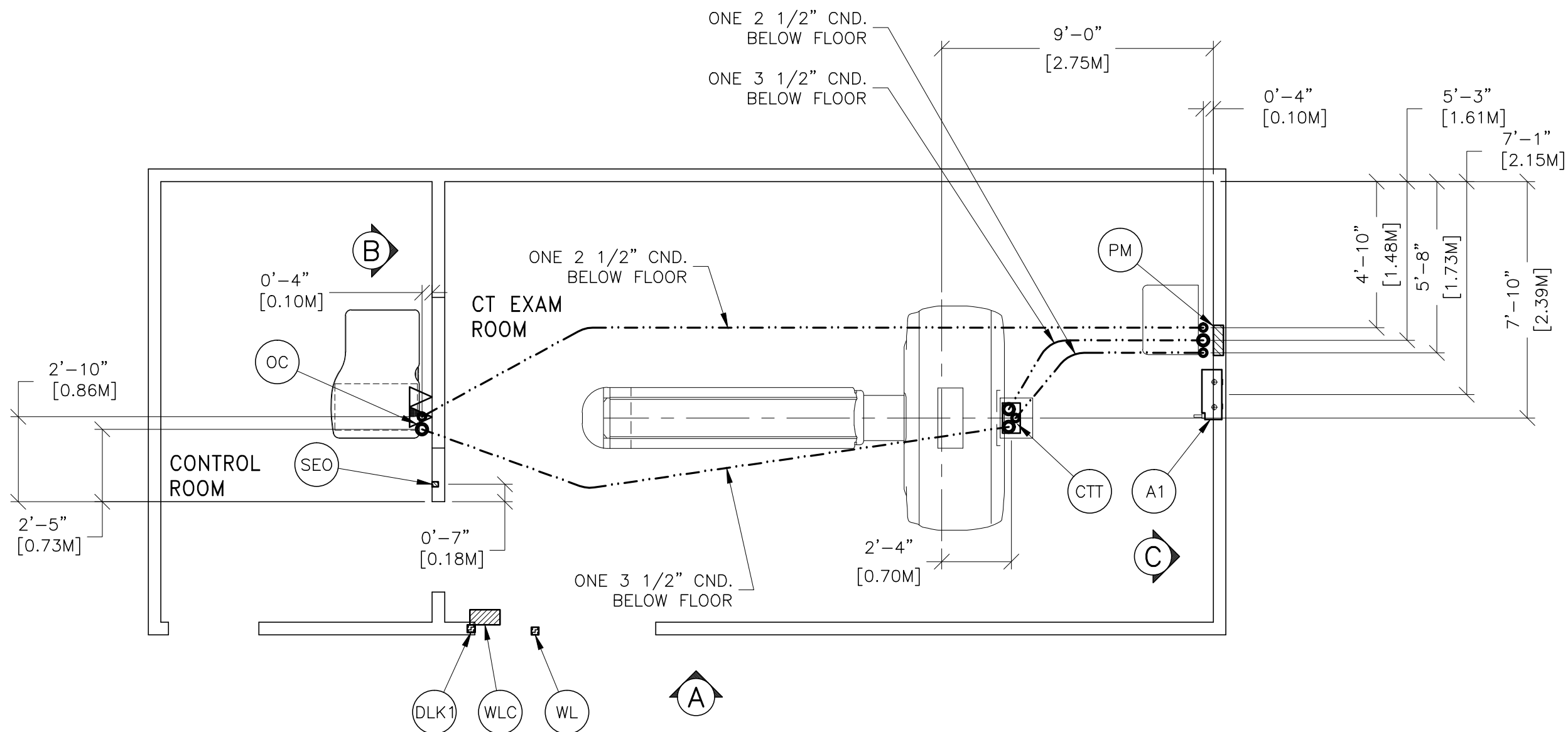


C

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)

JUNCTION POINT NOTES

- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, CABLE TRAY, 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:
 - 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 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.
- 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.



OPTIONAL CONSOLE

FEEDER TABLE - CT LightSpeed Pro16/RT/VCT, DISCOVERY CT Series/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								FEEDER GROUNDING
	342-418 380	360-440 400	378-462 420	396-484 440	414-506 460	432-528 480	450-542 500	468-560 520	
50	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	1 (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)	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)	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)	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)	1 (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)	1/0 (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)	1/0 (1/0)	1/0 (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)	2/0 (1/0)	2/0 (1/0)	2/0 (1/0)
REV. DATE: 08.Oct.14									

ADDITIONAL CONDUIT RUNS FOR ALL LIGHTSPEED, DISCOVERY, BRIGHTSPEED, OPTIMA SYSTEMS, REVOLUTION EVO, REVOLUTION DISCOVERY CT, HISPEED QX/i, & BRVO 385 (BY CONTRACTOR)			
CONDUITS REQUIRED FOR BASE SYSTEM (CONDUITS ARE LOCATED ABOVE CEILING)			
REV DATE: 08.OCT.14			
WL	TO	WLC	ONE 1/2" CND.
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 1P POWER	CND. AS REQ'D
DLK1	TO	PM	ONE 1/2" CND.
NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS			

POINT		THE FOLLOWING MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER'S ELECTRICAL CONTRACTOR		
DESCRIPTION		QTY.	HARDWARE	DETAIL NO., SHT. E3
A1	MAIN DISCONNECT * AVAILABLE FROM GEHC CALL 800-279-7525 OR LOCAL GE INSTALLATION PROJECT MGR.	1	125 AMP FUSED DISCONNECT AND MAGNETIC CIRCUIT BREAKER GEHC CAT. NO. E4502AE * SEO PUSHBUTTON AND COVER INCLUDED.	ELEC-135
CTT	CT SCANNER	2	3 1/2 IN. DIA. BUSHING & LOCKNUT 1 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 1 IN. FRAME - NORMALLY OPEN <24V> 1 SINGLE GANG BOX	ELEC-9
OC	OPERATORS CONSOLE	1	3 1/2 IN. DIA. BUSHING & LOCKNUT 1 1/2 IN. DIA. BUSHING & LOCKNUT	ELEC-9
OC	OPERATORS CONSOLE	1	3 1/2 IN. DIA. BUSHING & LOCKNUT 1 1/2 IN. DIA. BUSHING & LOCKNUT	ELEC-9
PM	POWER DISTRIBUTION UNIT	1	SPLIT COVERPLATE 1/2 IN. DIA. BUSHING & LOCKNUT 1 1/2 IN. DIA. BUSHING & LOCKNUT 1 FT. LENGTH OF 2 IN. FLEXIBLE METAL CONDUIT 12 X 16 X 4 IN. BDX 16 FT. LENGTH OF 1/2 IN. FLEXIBLE METAL CONDUIT	ELEC-9 ELEC-22
SEO	EMERGENCY OFF	1	SINGLE GANG 2 1/2 IN. DEEP FLUSH MOUNTED JUNCTION BOX.	ELEC-16
WL	WARNING LIGHT	1	X-RAY ONY INCANDESCENT LIGHT FIXTURE 100 WATT 120 V 1P FLUORESCENT FIXTURES GE CAT. NO. WX1ABWW-DF-XIU	ELEC-72
WLC	WARNING LIGHT CONTROLLER * AVAILABLE FROM GEHC CALL 800-279-7525 OR LOCAL GE INSTALLATION PROJECT MGR.	1	E4502RL WARNING LIGHT CONTROL OR EQUIVALENT MAX 24V CONTROLLER	ELEC-72

CONTRACTOR SUPPLIED AND INSTALLED WIRING	
ELECTRICAL CONTRACTOR SHALL RING OUT, TAG AND TERMINATE 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
PM > WLC	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
A1 > SEO	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
A1 > PM	3-BLACK, 1 GREEN - REFER TO FEEDER TABLE
480V > A1	3 BLACK, 1 GREEN - REFER TO FEEDER TABLE
PM > DLK1	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN

GE Healthcare

Healthcare Project Implementation - Design Center

Minneapolis, Wisconsin

SHEET TITLE: ELECTRICAL LAYOUT

MODALITY TYPE: DISCOVERY CT750 HD

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

PROJECT TITLE:

6-70f

TYPICAL FINAL

(W/ GT2000 TABLE)

PROJECT

6-70f

REVISION

07

DATE: 19.May.16

DRAWN BY: DMH

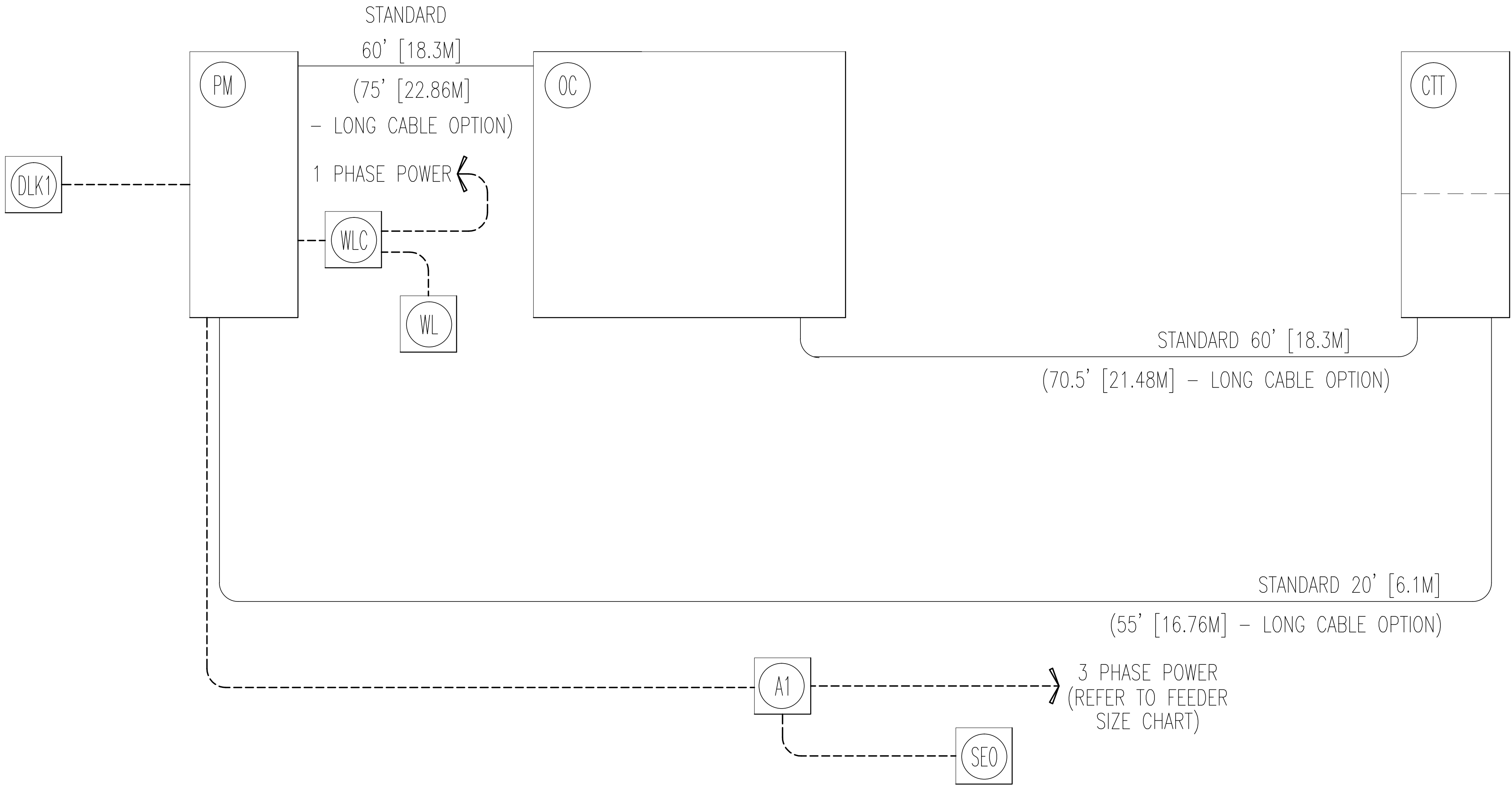
CHECKED BY: DJP

REVISION HISTORY:

SHEET

E1

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

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

(REV. DATE 08.Oct.14)

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.

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.
- NOTE 12: GEHC CONDUCTS POWER AUDITS TO VERIFY QUALITY OF POWER BEING DELIVERED TO THE SYSTEM. THE CUSTOMER'S ELECTRICAL CONTRACTOR IS REQUIRED TO BE AVAILABLE TO SUPPORT THIS ACTIVITY.

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: DISCOVERY CT750 HD

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 THE ACTUAL CONSTRUCTION. HOWEVER, THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

6-70f
TYPICAL FINAL
(W/ GT2000 TABLE)

PROJECT 6-70f REVISION 07

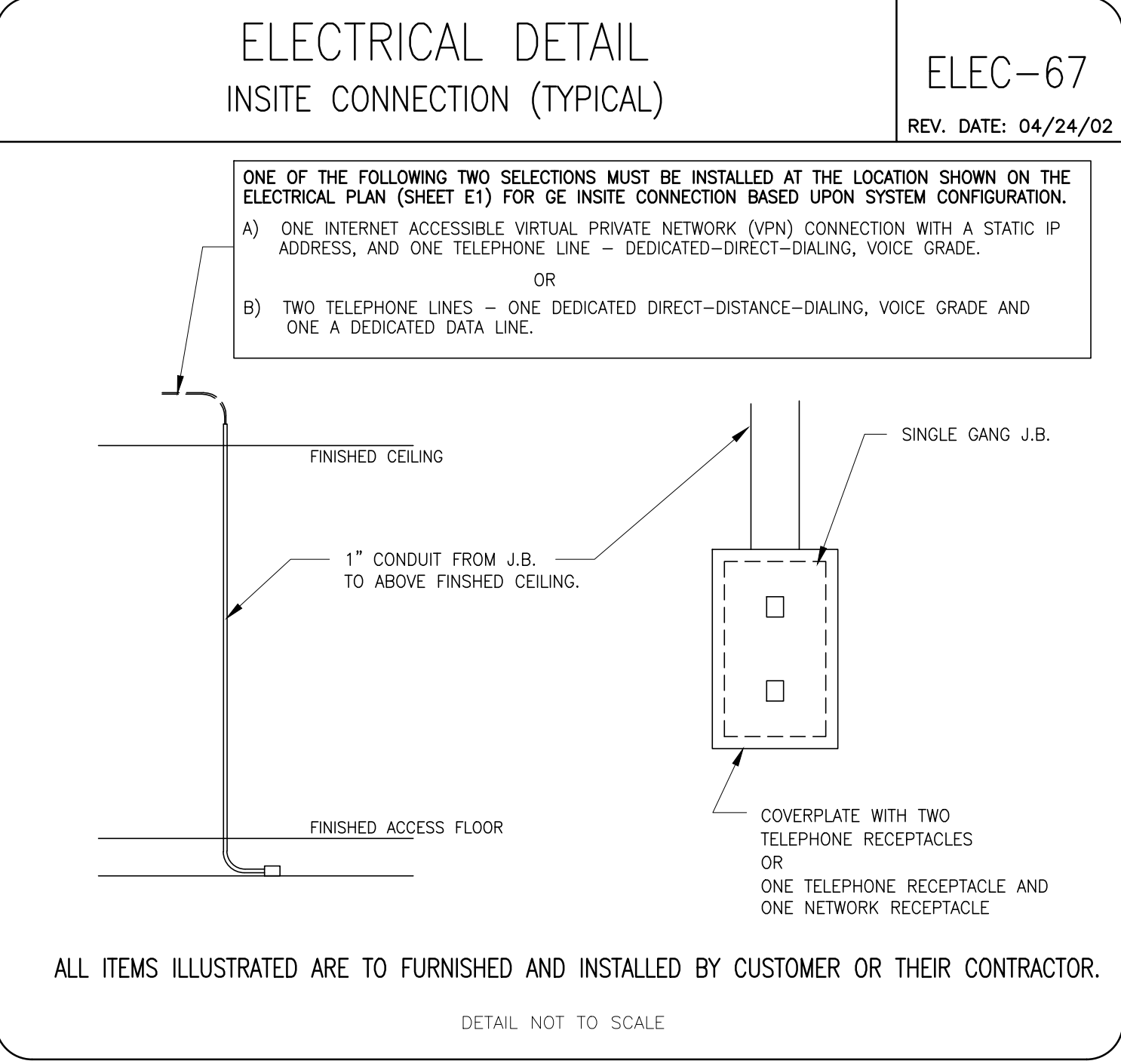
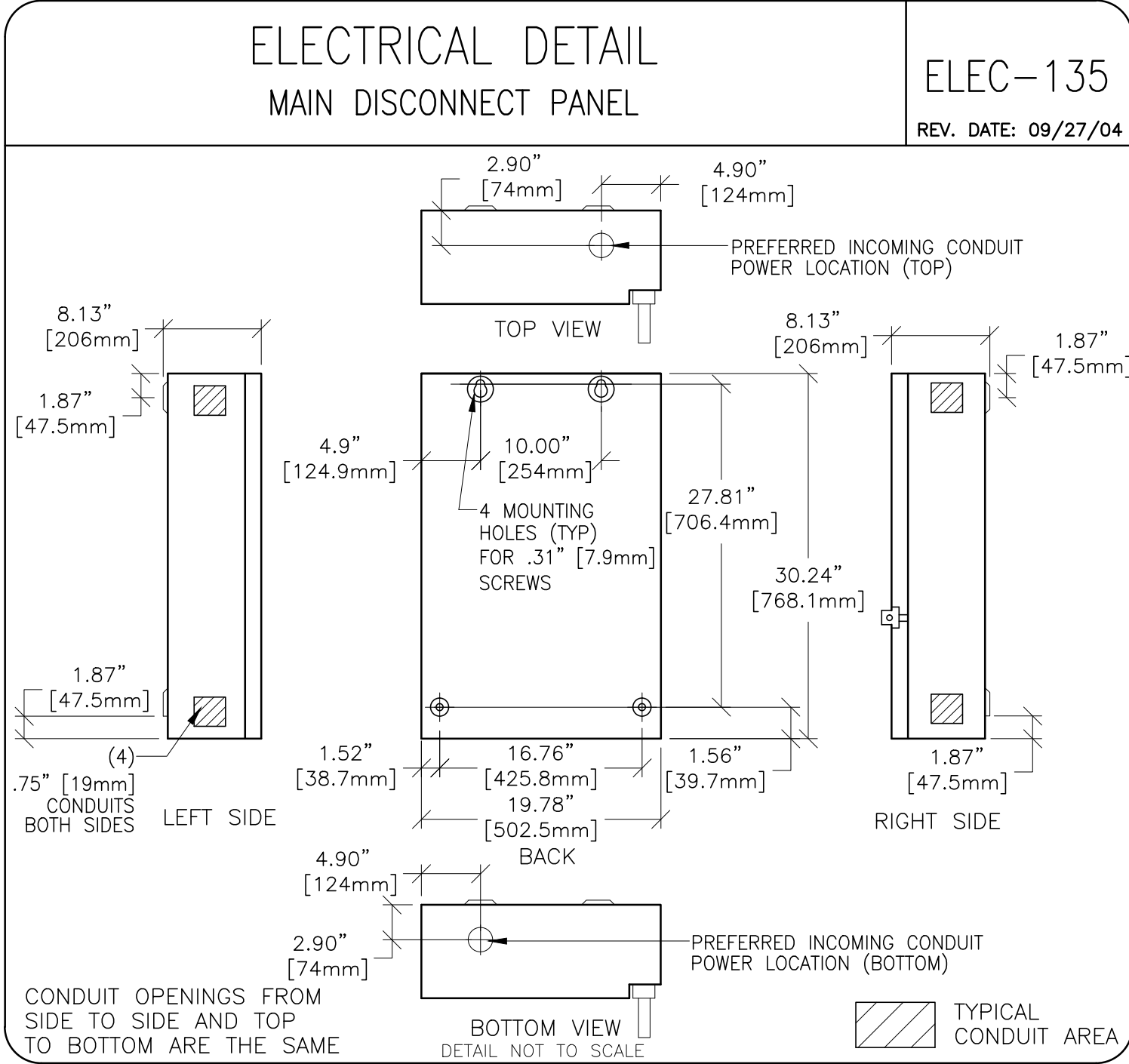
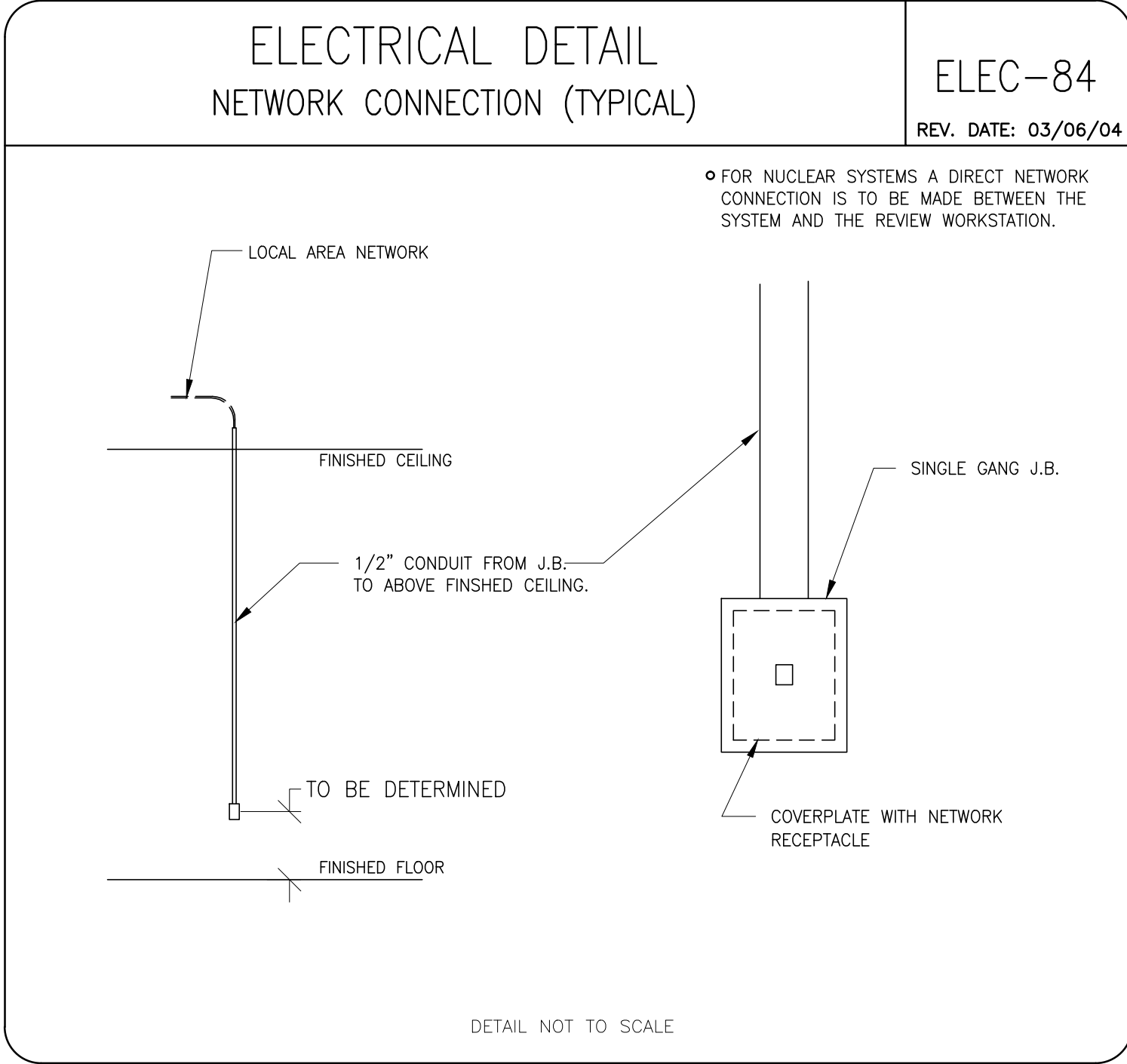
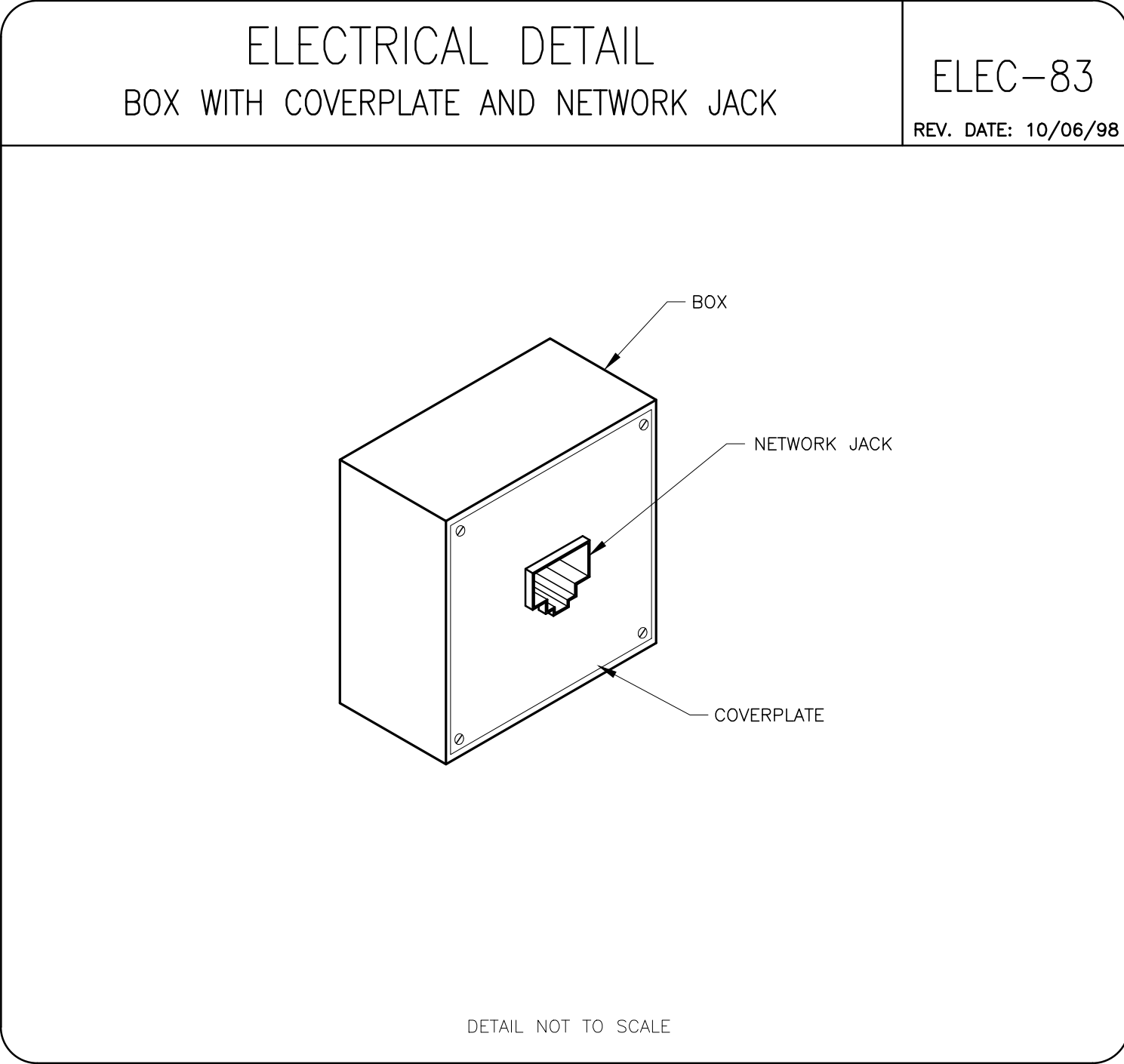
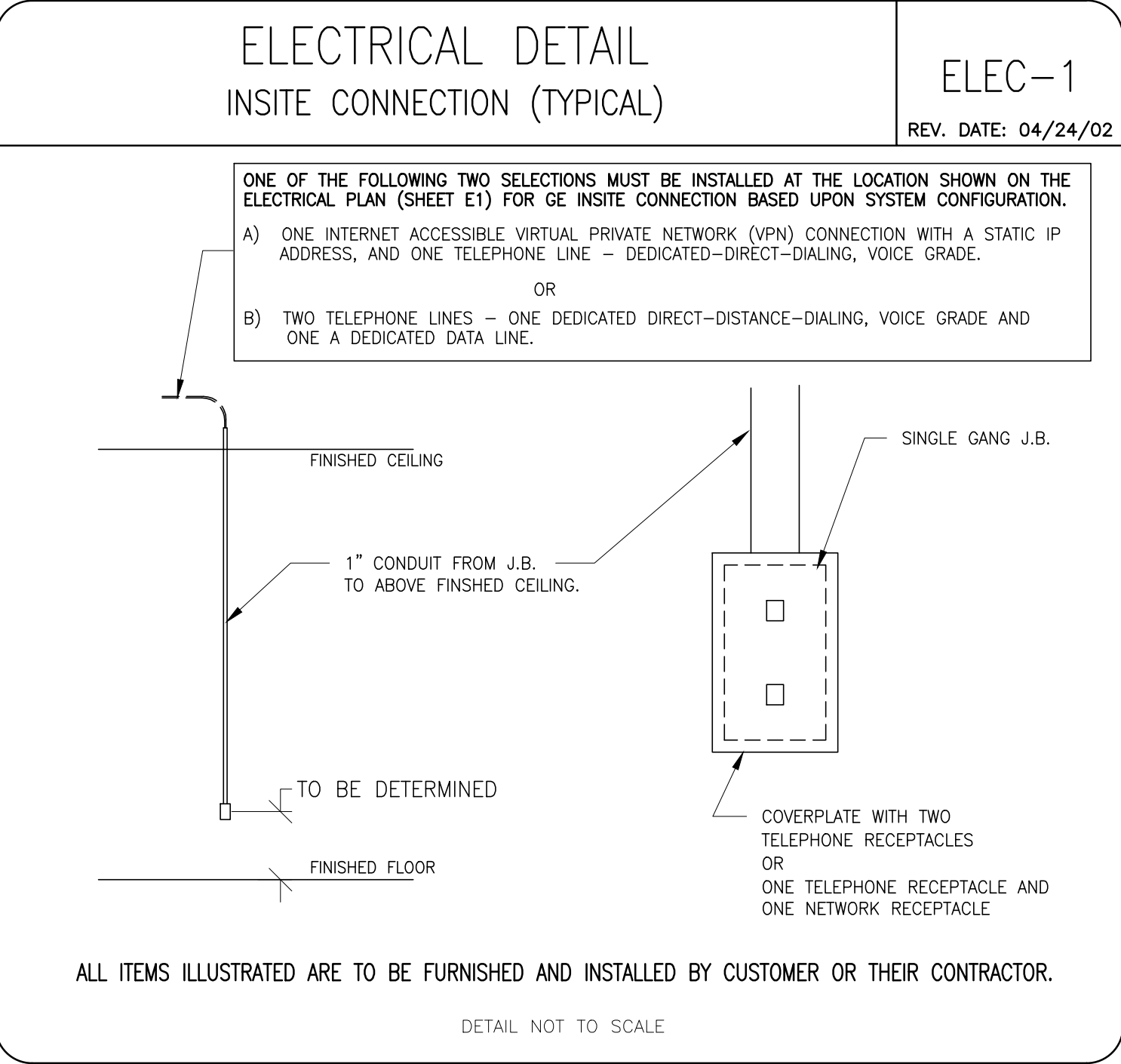
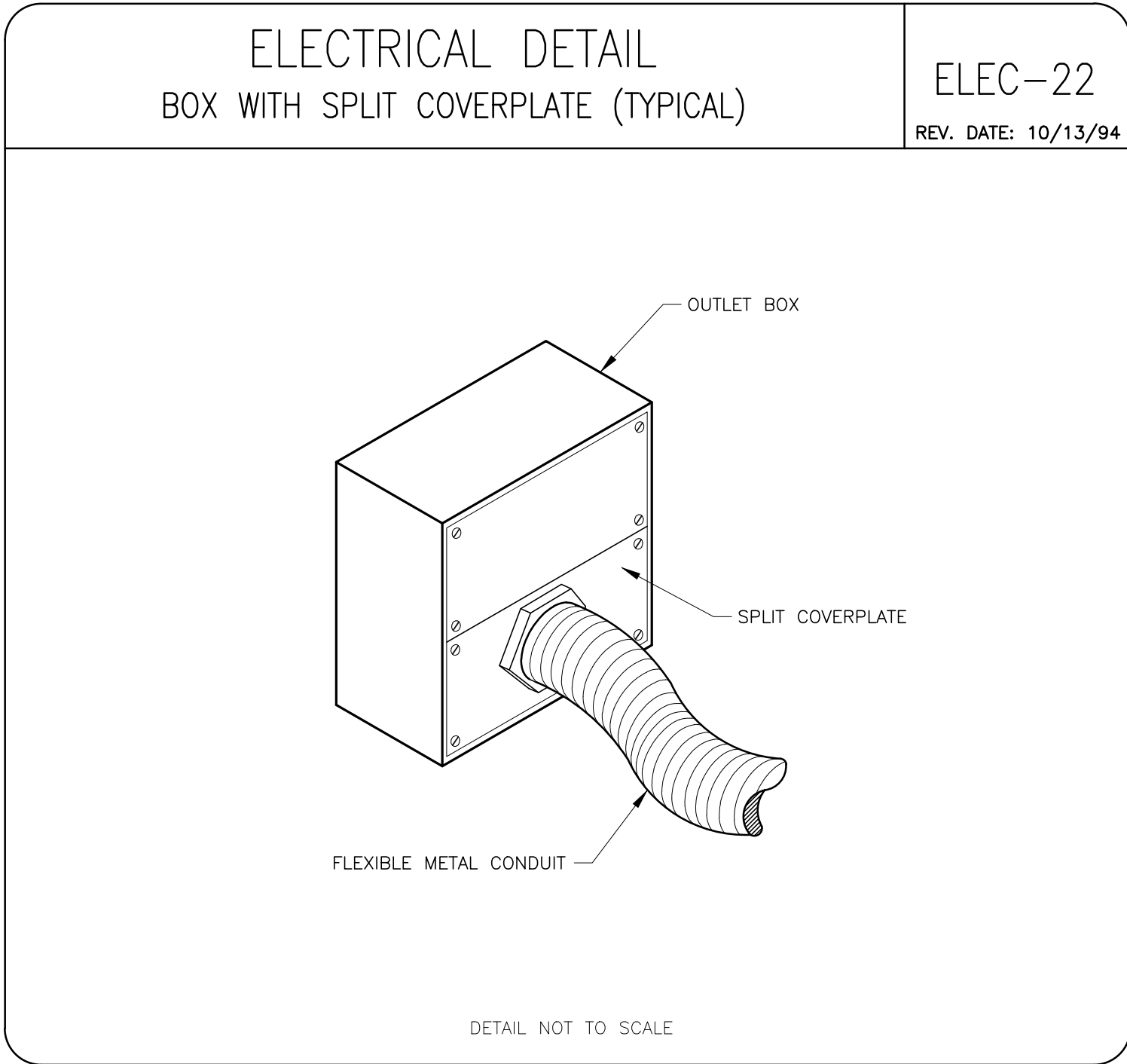
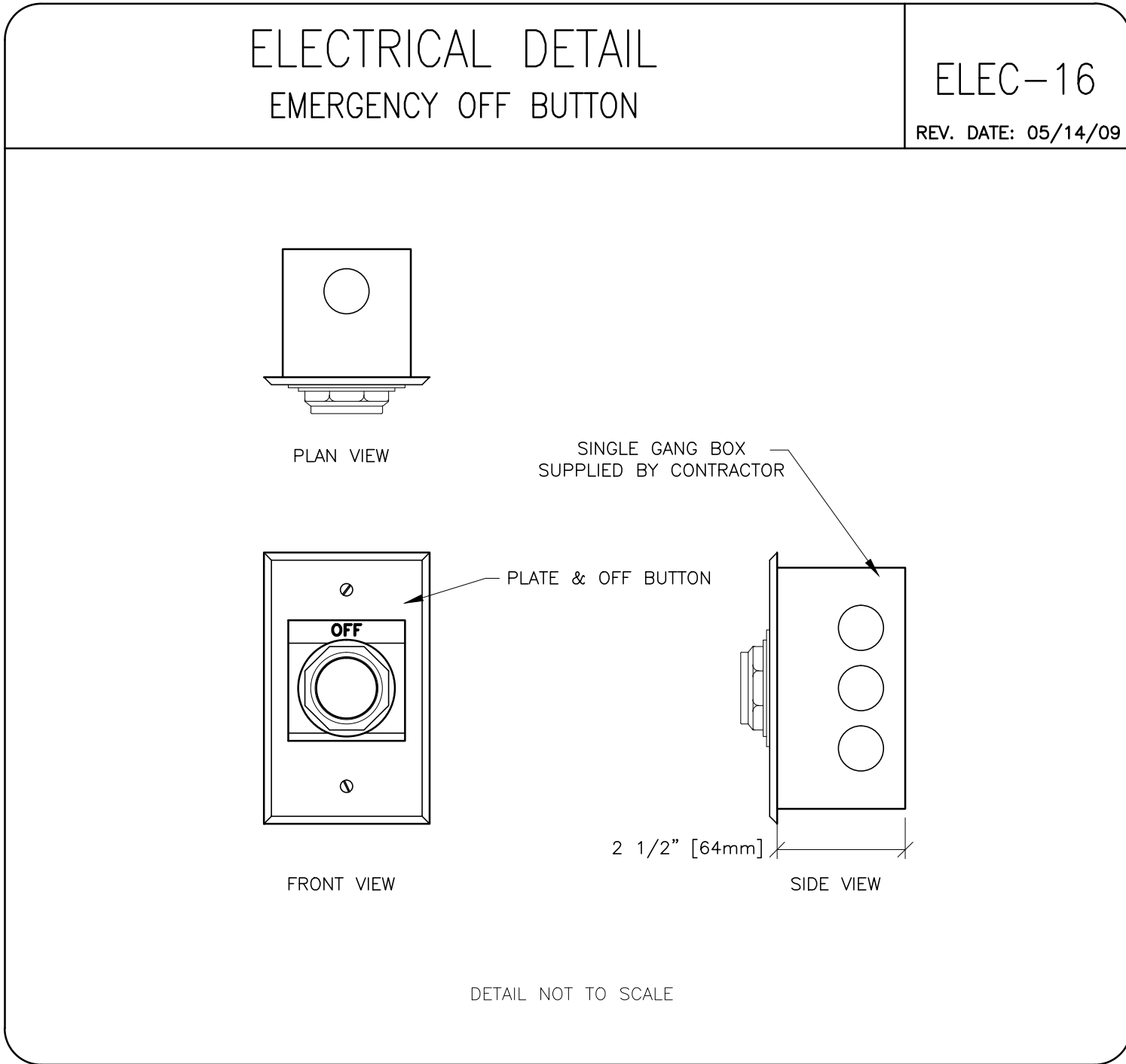
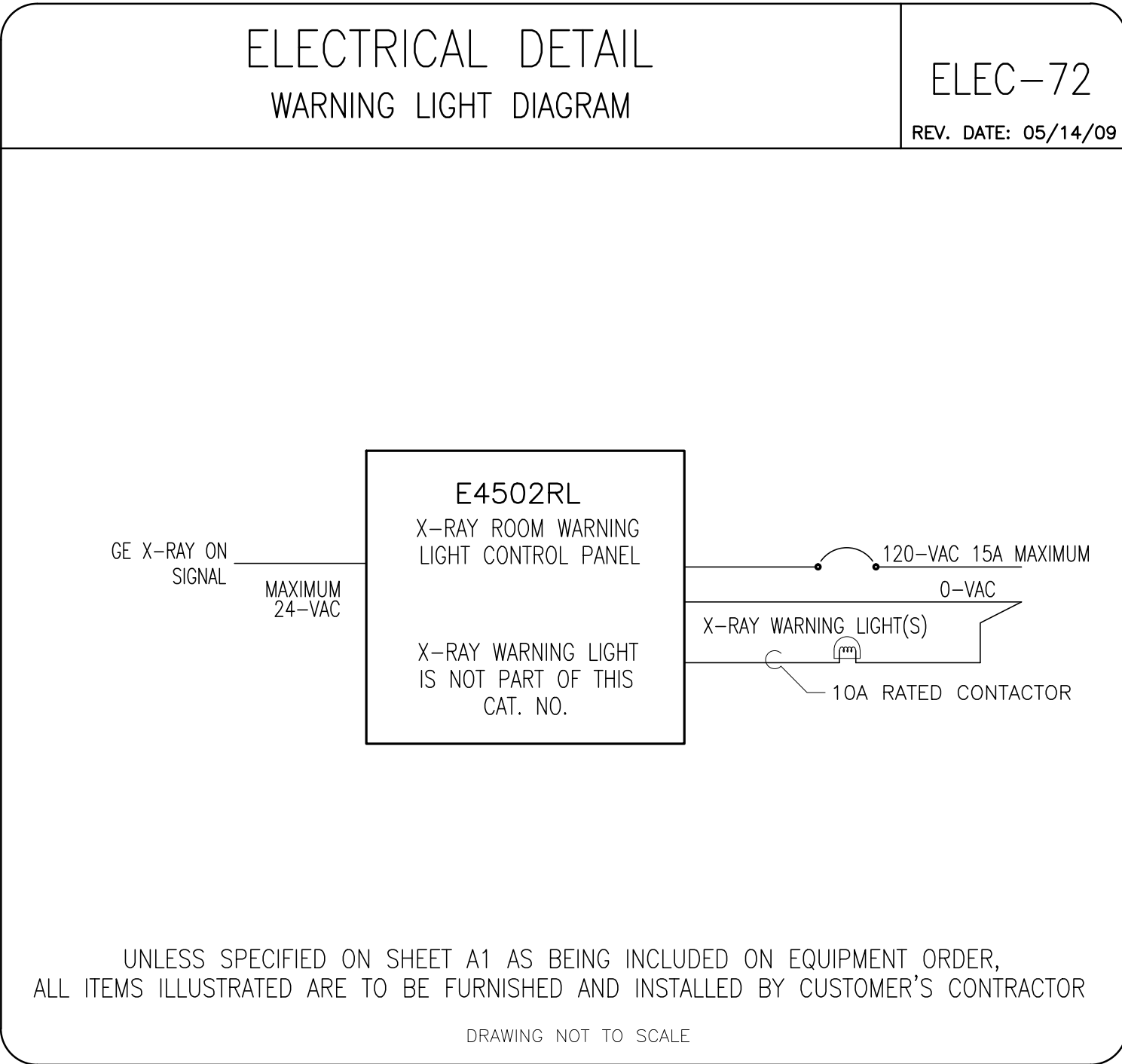
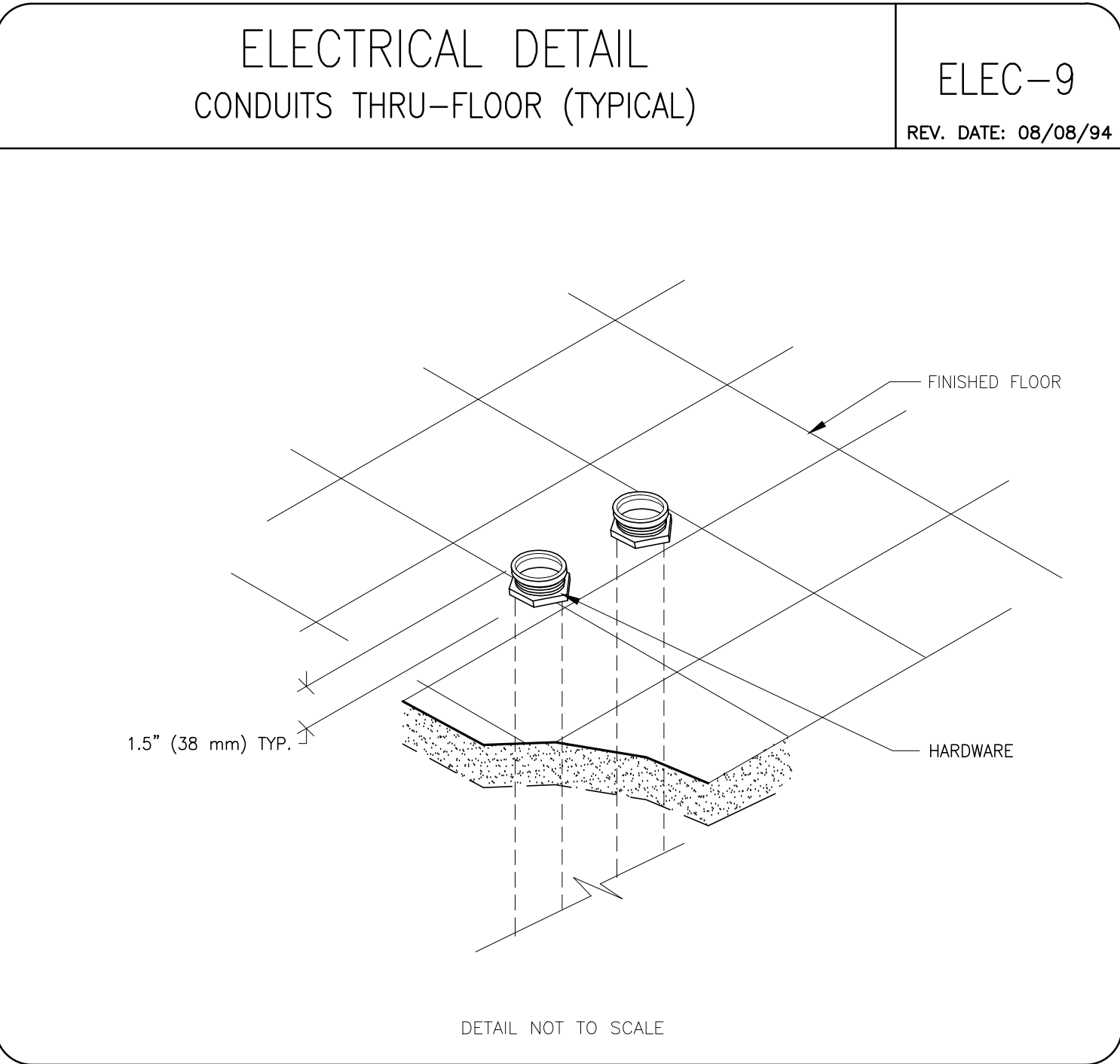
DATE: 19.May.16
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CHECKED BY: DJP

REVISION HISTORY:

SHEET
E2

GE Healthcare
Healthcare Project Implementation - Design Center
Milwaukee, Wisconsin



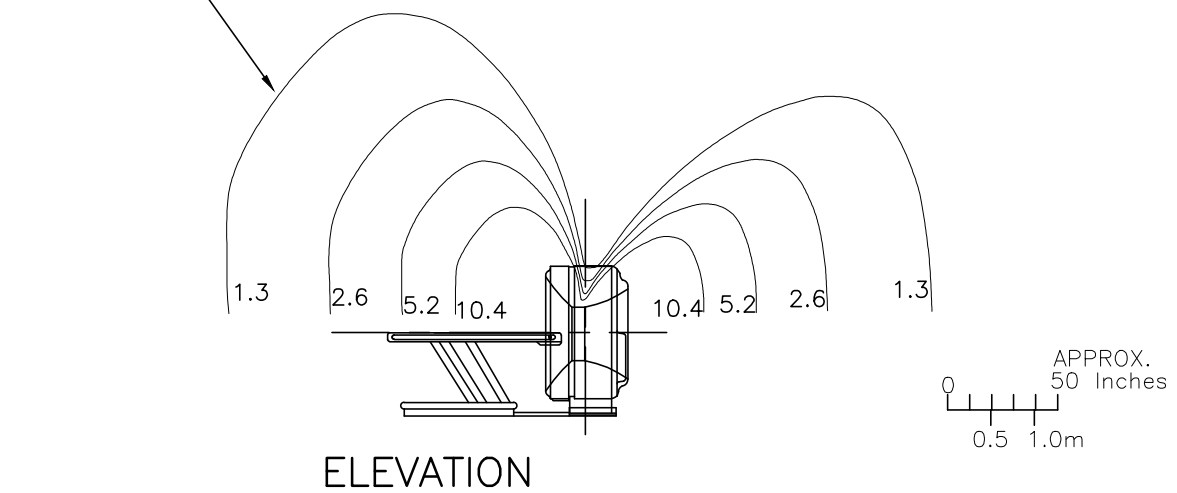


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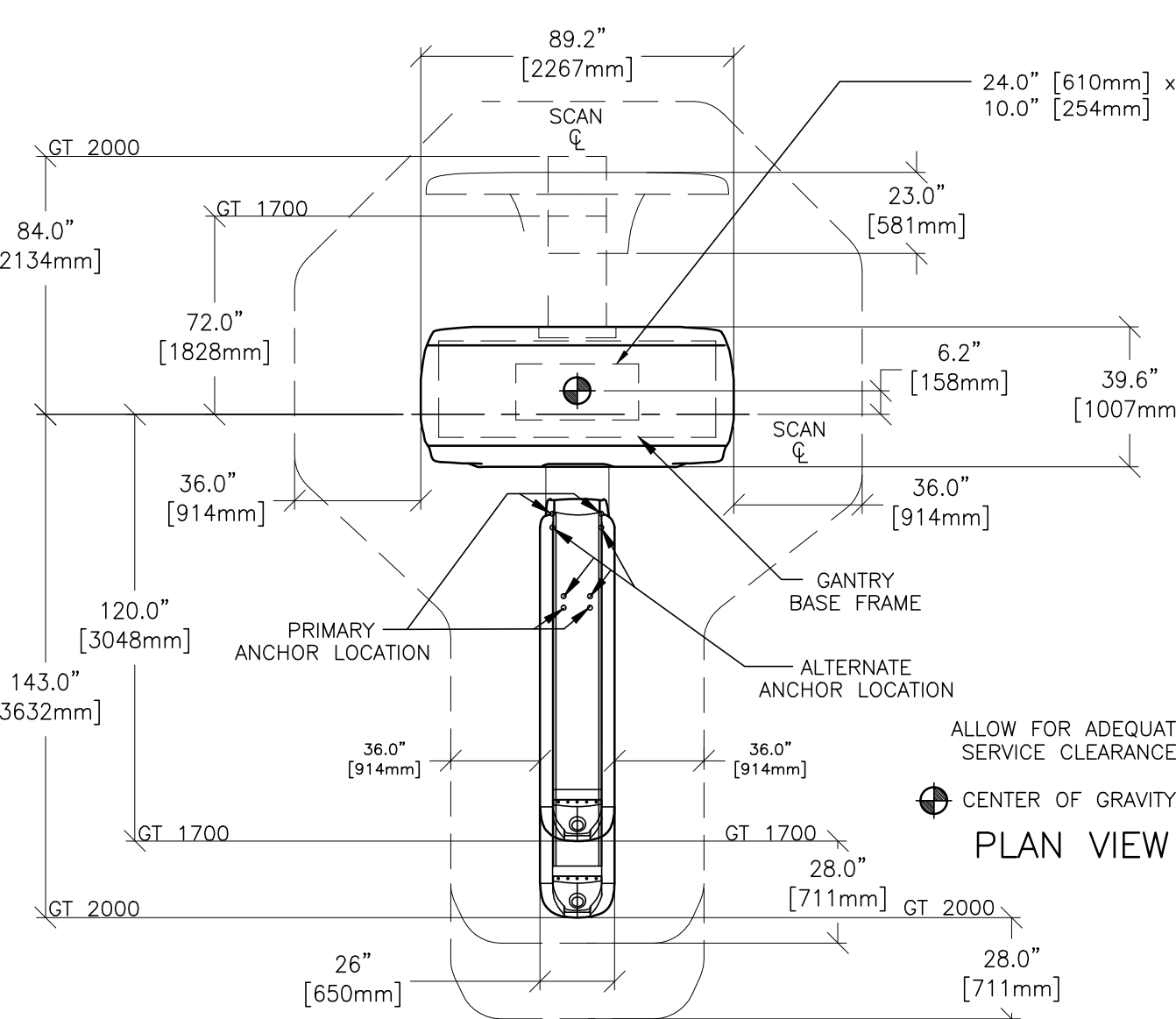


CONFIGURATION	WEIGHT lb [kg]	DIMENSIONS			PERSONS NEEDED	ADDITIONAL PERSON HOURS	COMMENT
		LENGTH in. [mm]	WIDTH in. [mm]	HEIGHT in. [mm]			
DOLLIES ON, SIDE RAILS ON	4260 [1932]	114 [2900]	51 [1290]	79 [2000]	2	0	VAN DRIVERS DELIVER EQUIPMENT TO ROOM. GEEPS SUPERVISE AND ASSIST. HEIGHT IS WITHIN 1 IN. [25.4mm] CLEARANCE FROM FLOOR.
DOLLIES ON, SIDE RAILS REMOVED	4110 [1910]	1200 [3050]	39.4 [1000]	79 [2000]	2	0.5	WITH RAILS REMOVED, BE VERY CAREFUL TO PREVENT DAMAGE TO DOLLIES.
REMOVE SIDE RAILS AND ONE DOLLY					2	1.5	THIS CONFIGURATION IS USED TO GET GENTRY TO A 9 FT. [2.74m] ELEVATOR.
GENTRY SET ON AUX. DOLLIES					2	2.5	DO NOT RUSH ON GENTRY COVERS. PUSH ONLY ON FRAME NUMBERS. AUX. DOLLIES PROVIDE 2.3 IN. [58mm] CLEARANCE FROM FLOOR.
REMOVE COVERS – USE SHIPPING DOLLIES					4	1.5	USE EXTREME CARE IN MOVING, HANDLING AND INSTALLING COVERS. SEE PROCEDURE IN DIRECTION 23A3312–100, Q/V.1 PLUS GENERAL SYSTEM INSTALLATION
REMOVE COVERS – USE AUX. DOLLIES COVERS OFF					4	3.5	SEE TWO PREVIOUS COMMENTS.
DOLLIES OFF, COVERS OFF	4110 [1864]	81 [2031]	34 [860]	73 [1850]	4	3.5	SEE LIFTING PROCEDURE DIRECTION 23A3312–100, Q/V.1 PLUS GENERAL SYSTEM INSTALLATION.

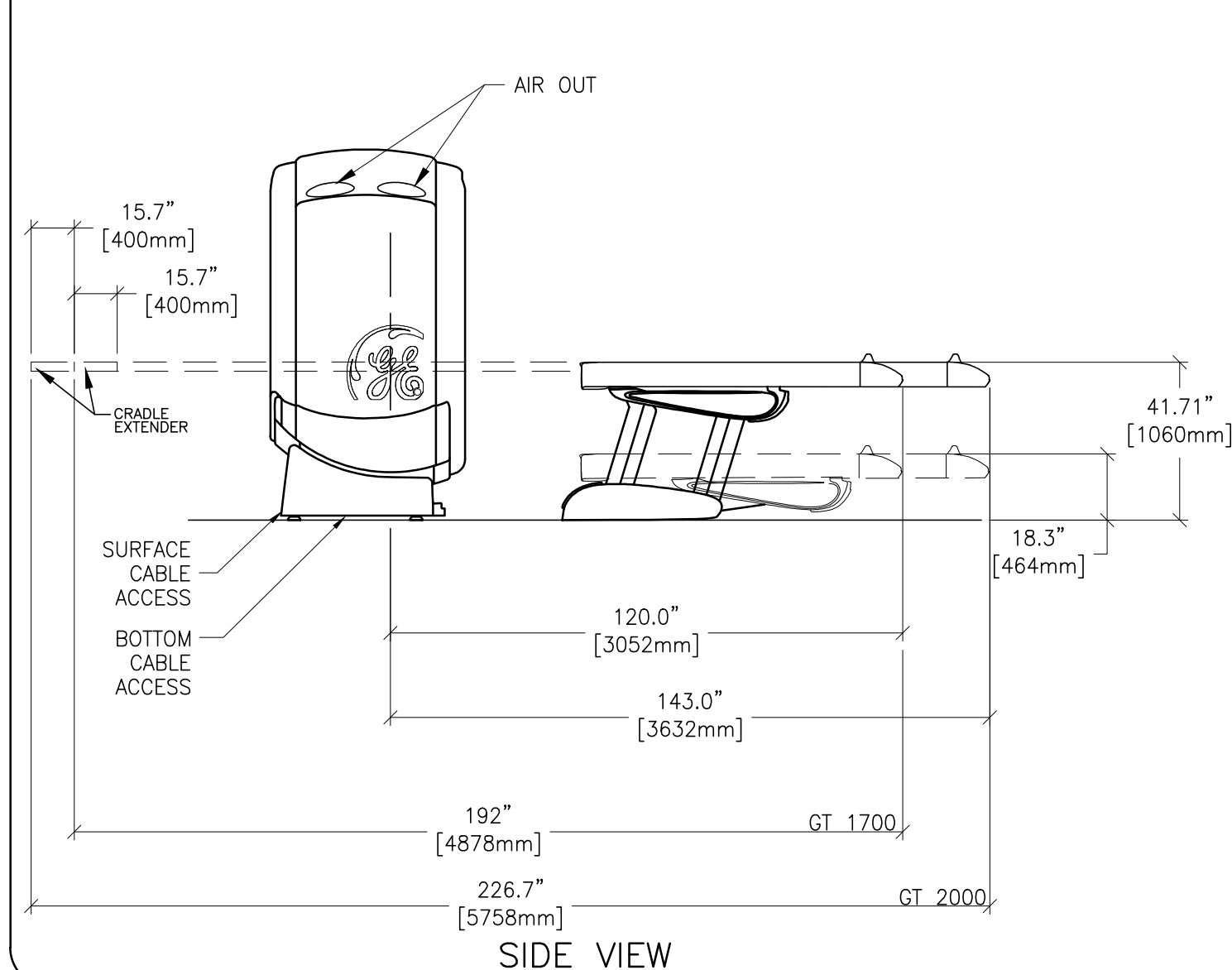
REV. DATE: 05/12/05



REV. DATE: 27.Mar.15



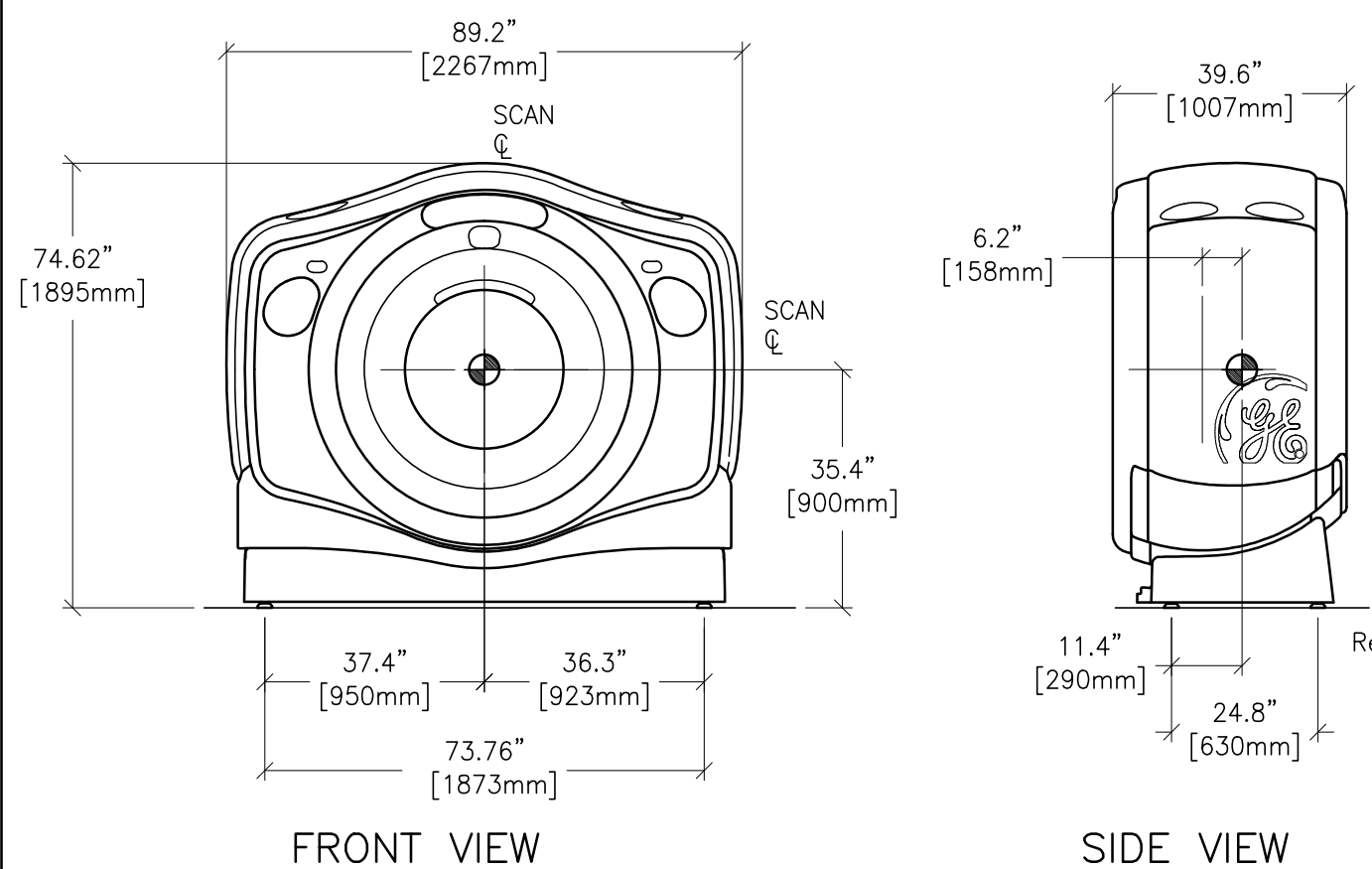
REV. DATE: 21.Dec.11



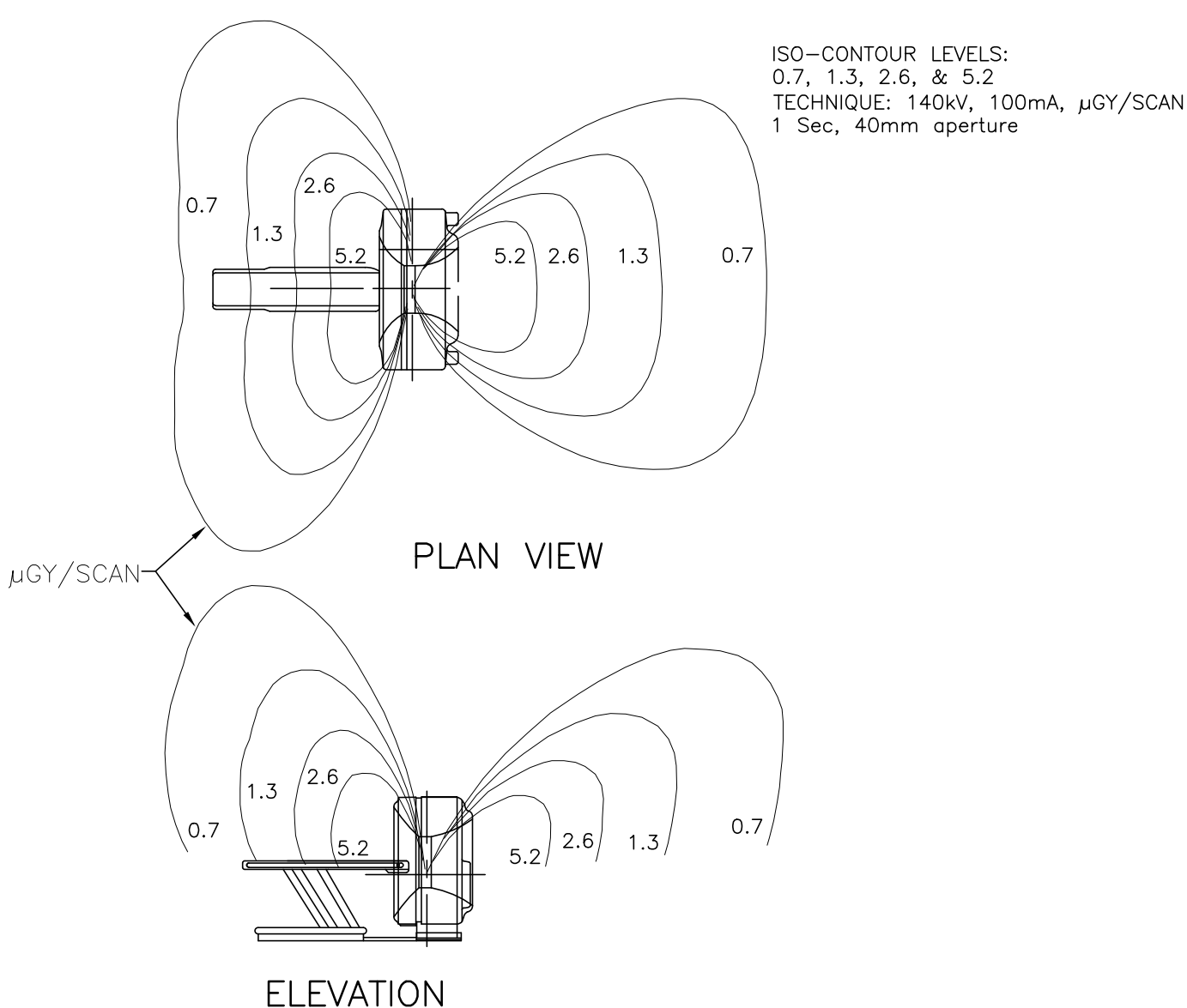
REV. DATE: 01/28/09

SHIPPING DIMENSIONS:
114"(2900mm)L x 51"(1290mm)W x 79"(2000mm)H

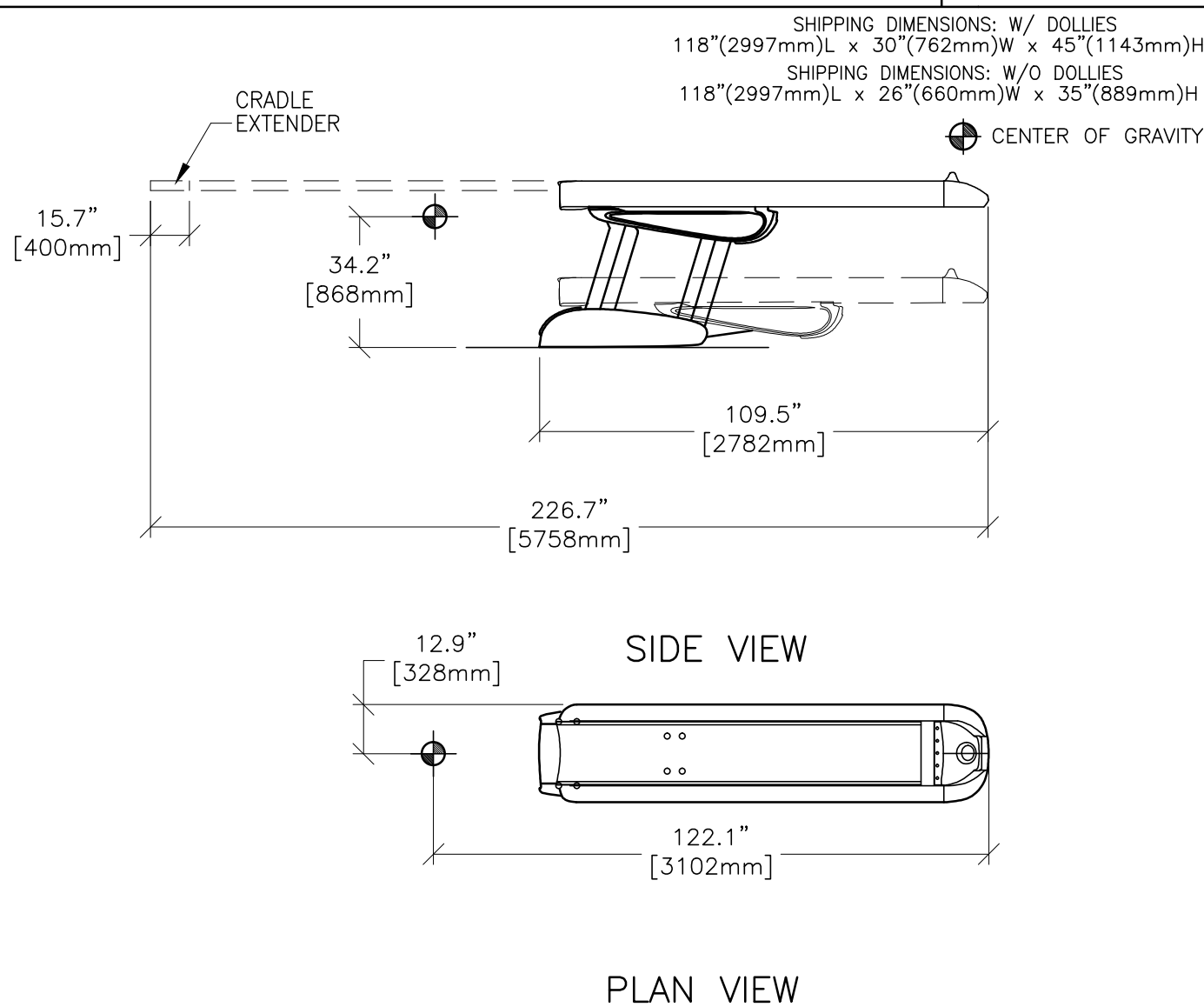
 CENTER OF GRAVITY



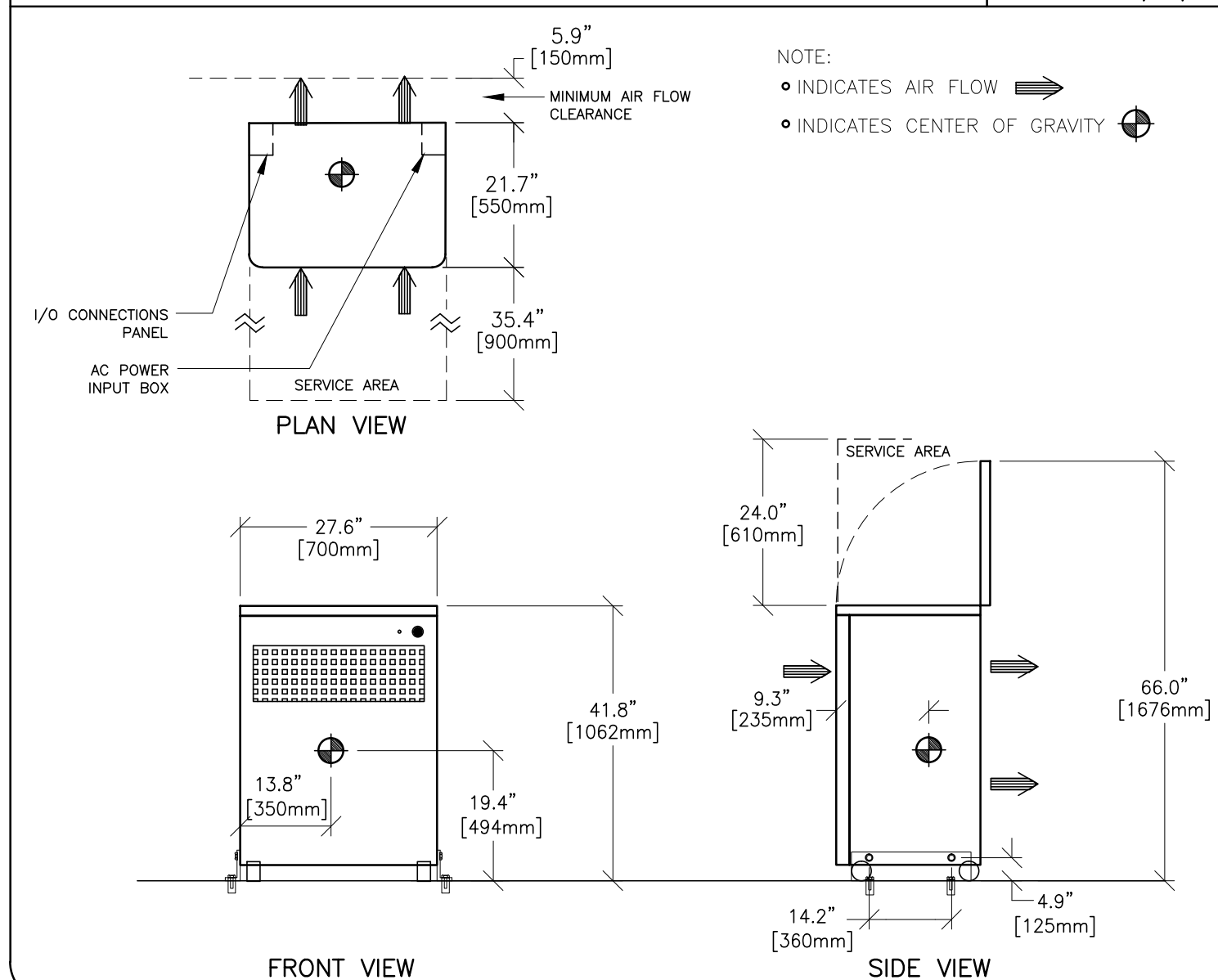
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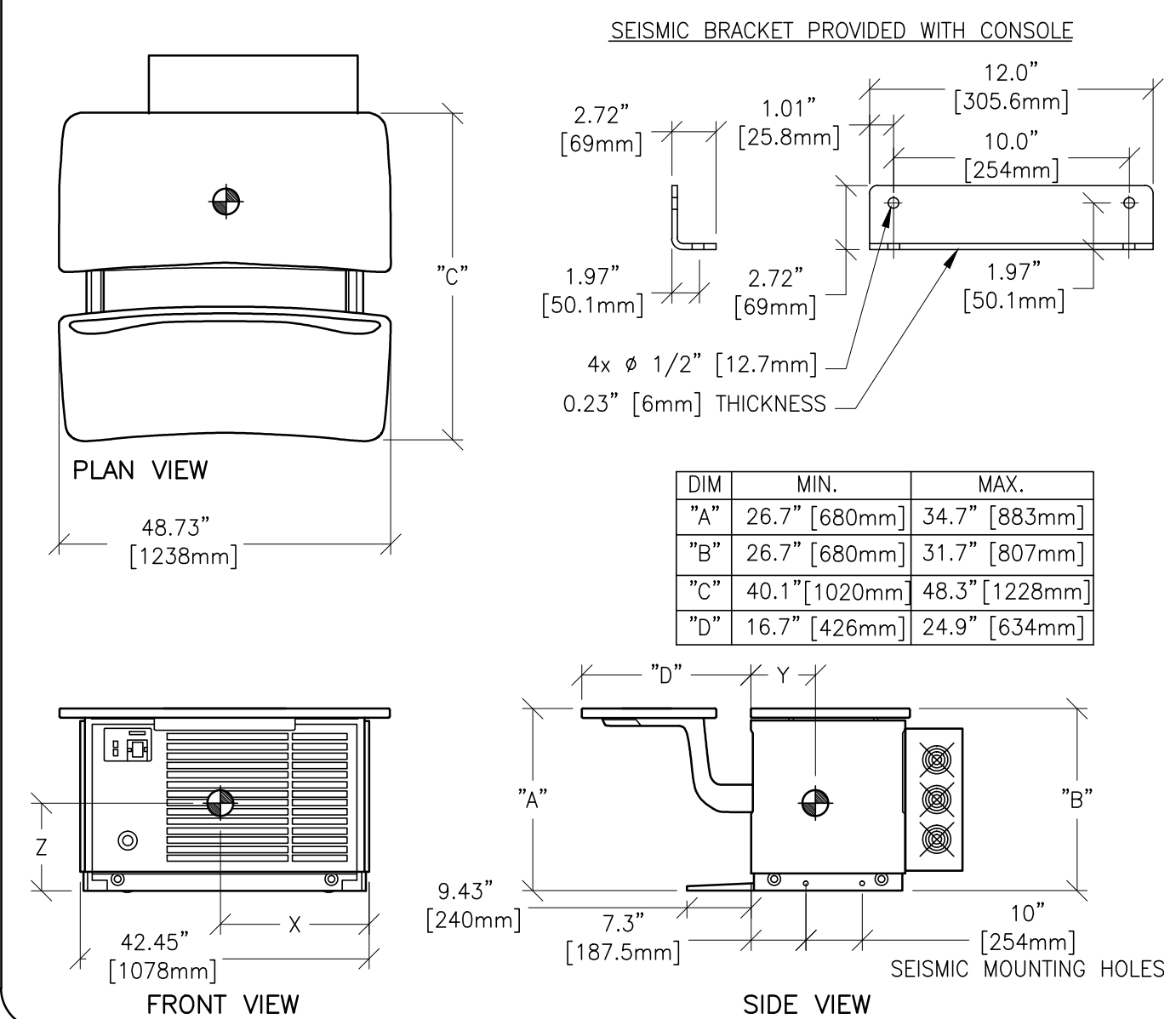
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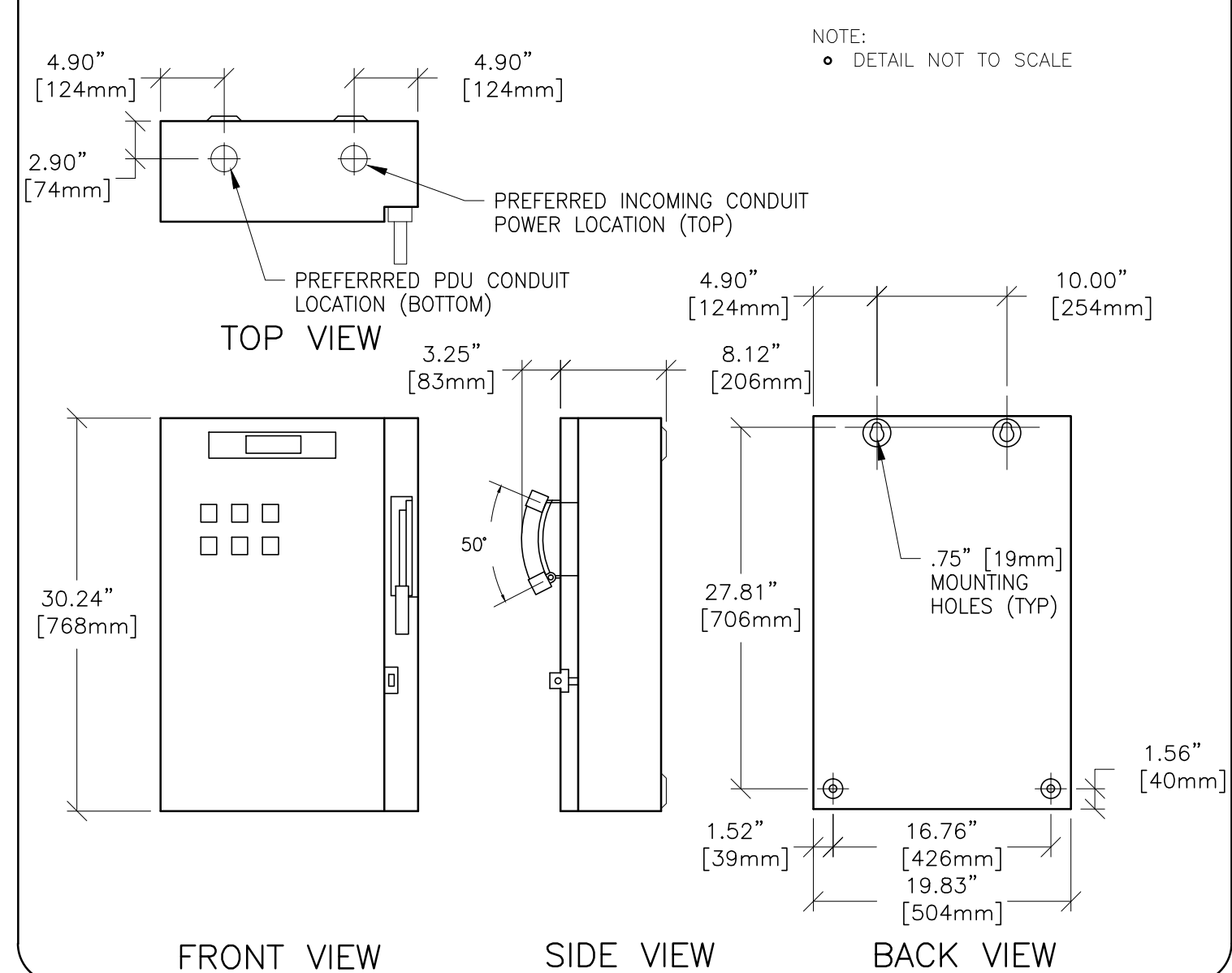
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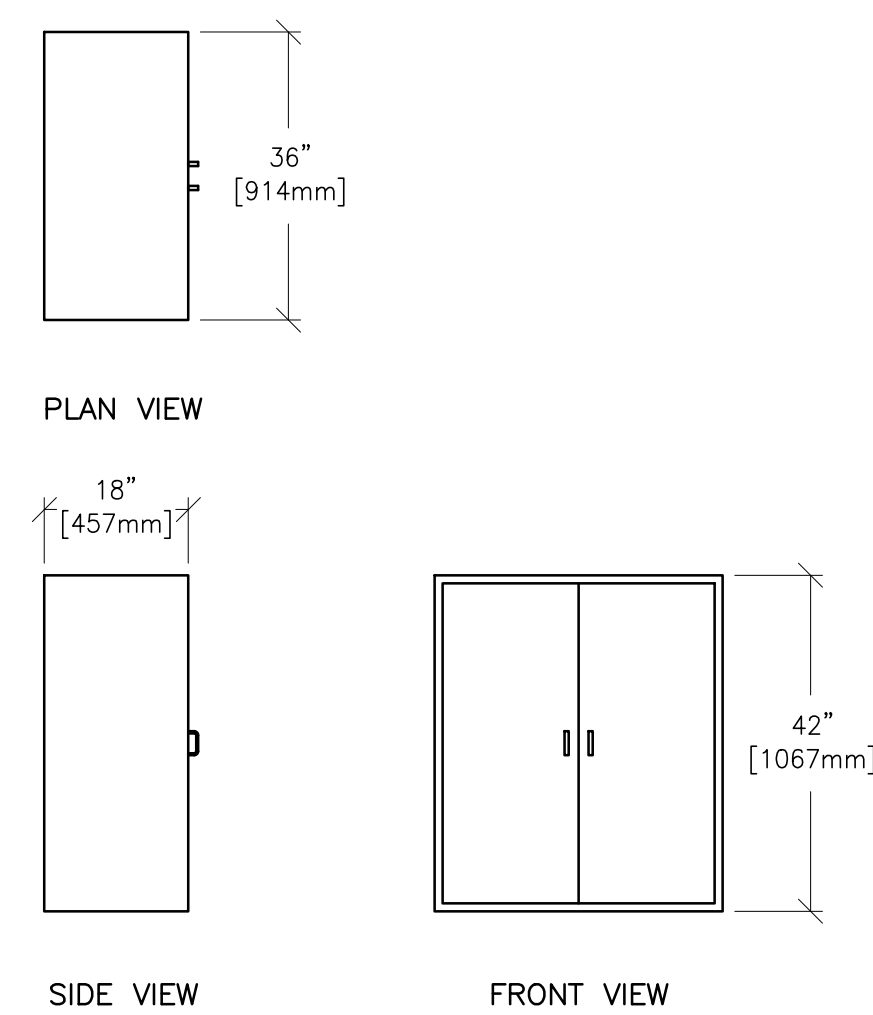
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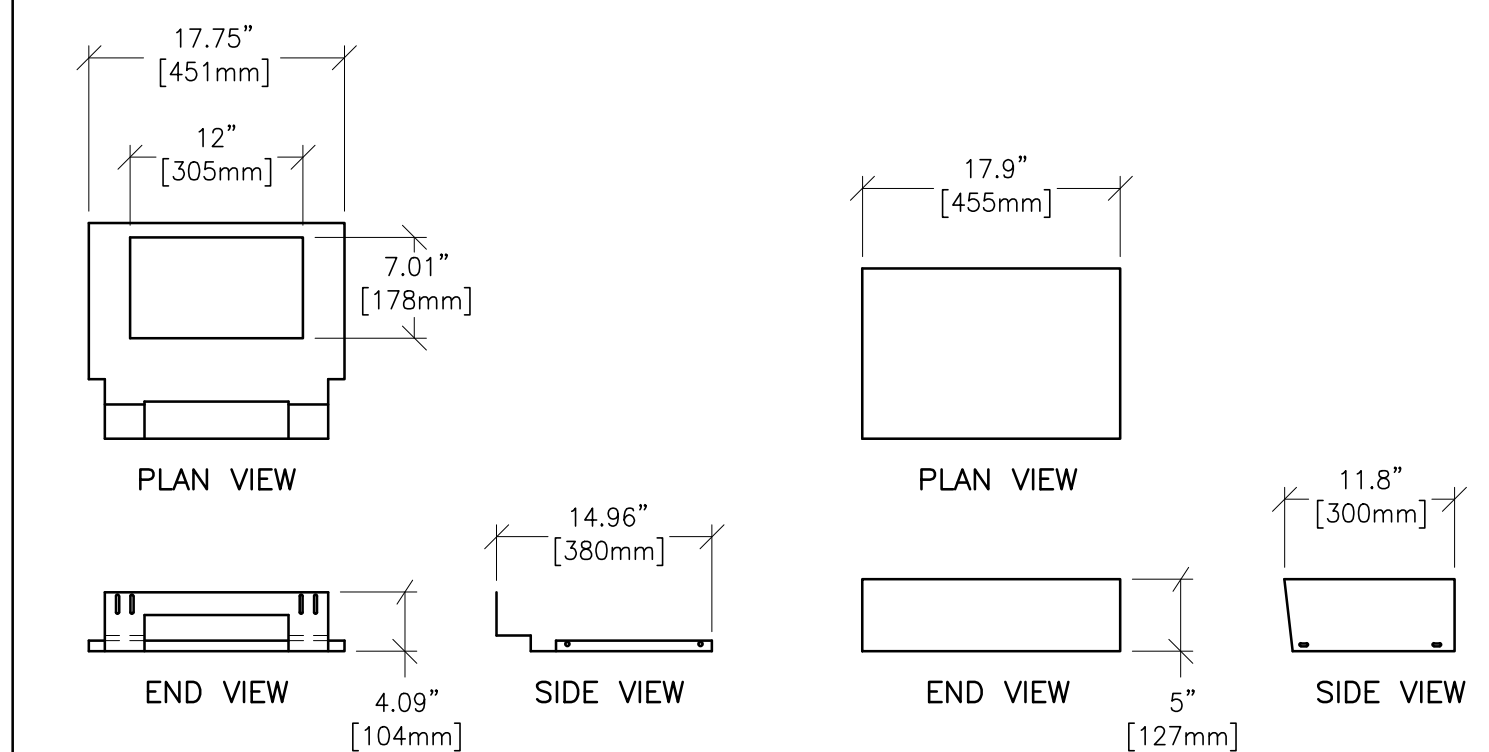
REV. DATE: 02/20/04



REV. DATE: 02/26/09



REV. DATE: 30.May.12



EQUIPMENT DETAIL
OPERATORS CONSOLE – OPTIMA TABLE

B81–40
REV. DATE: 12.JUN.13

51.2" [1300]

35.2" [895]

TOP VIEW

56" [1410]

45.1" [1145]

FRONT VIEW

32.3" [820]

28" [700]

SIDE VIEW

• NOTE: DETAIL NOT TO SCALE

• UNITS IN INCHES BRACKETED

• DIMENSIONS EQUAL [MM]

EQUIPMENT DETAIL
OPERATORS CONSOLE – COMPUTER

B81–05
REV. DATE: 20.Nov.12

25.25" [640]

18.5" [470]

FRONT VIEW

18.50" [470]

29.13" [740]

TOP VIEW

29.13" [740]

SIDE VIEW

• NOTE: DETAIL NOT TO SCALE

• UNITS IN INCHES BRACKETED

• DIMENSIONS EQUAL [MM]

GE Healthcare

Healthcare Project Implementation – Design Center
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: DISCOVERY CT750 HD

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PROJECT TITLE:

6–70f
TYPICAL FINAL
(w/ GT2000 TABLE)

PROJECT	REVISION
6–70f	07
DATE: 19.May.16	
DRAWN BY: DMH	
CHECKED BY: DJP	

REVISION HISTORY:

SHEET

D2