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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 XR656
Pre Installation Manual
5343949–1EN

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



RAD 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					
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:			
GEHC Minimum Requirements		Storage is ready?	PHI 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 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 iAdminCOEMBG@ge.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 IL, KY, HI, RI, SC, TX, X-ray shielding plan and state acknowledgment letter provided to installer for AR, DC, NC, SC, CO & WA.				
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 lead-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 PMI 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.				

GE Healthcare

Healthcare Project Implementation – Design Center

Minneapolis, Wisconsin

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SHEET TITLE: SITE READINESS

MODALITY TYPE: DISCOVERY XR656

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 REVISED EDITION OF THE GEHC PRE-INSTALLATION MANUAL. THE USER OF THIS PLAN ASSUMES ALL RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: ROOM NO. 1379

JESSE BROWN

VA MEDICAL CENTER

CHICAGO, ILLINOIS

PROJECT	REVISION
132505	02
DATE:	17.Feb.15
DRAWN BY:	RET
CHECKED BY:	REK
GON NO:	4118873
GON DT:	12.Feb.15

REVISION HISTORY:

2

LLM – 27.Feb.15

CHECKED BY: REK

SHEET

C1

This drawing is based on Sketch No.: Jessie Brown VA Rad room 1379 rev2

PIM R8

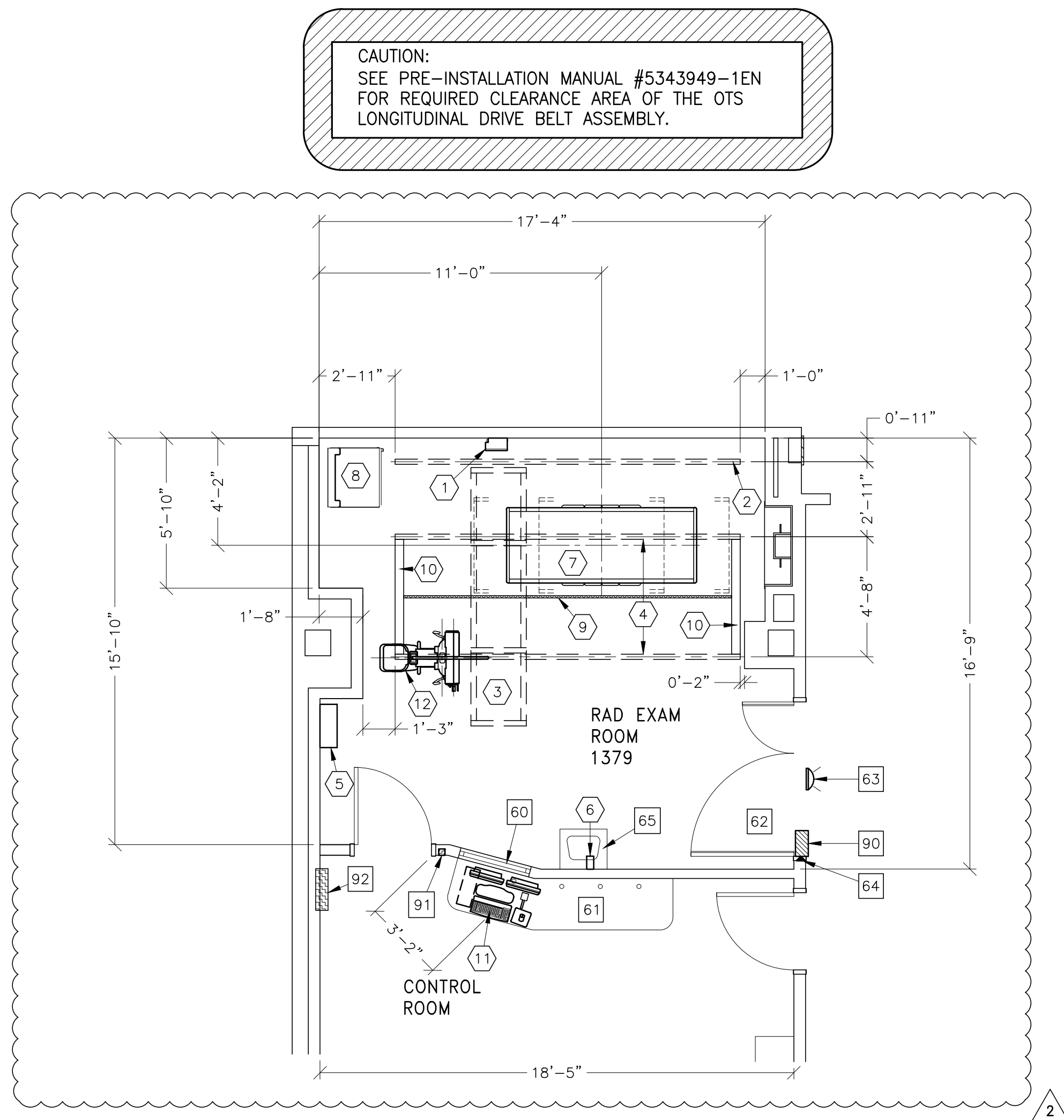
RQ – 150214

GE EQUIPMENT LISTING									
EQUIPMENT ON ORDER FROM GE HEALTHCARE, INSTALLED BY GE HEALTHCARE, PER CON 4118873 DATED 12.Feb.15								EQUIPMENT CROSS REFERENCE CHART	
NOTE: LOCAL CONDITIONS MAY DICTATE THAT ITEMS IDENTIFIED IN THIS CATEGORY BE INSTALLED BY OTHERS.								SEISMIC STATUS	P = PREAPPROVAL CALCULATIONS/PENDING APPROVAL SPECIFICATIONS ONLY
ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN	
(1)	1		TETHER INTERFACE BOX	15 lbs	10 btu	B8126	-	TIB	-
(2)	1		CABLE DRAPE RAIL.	182 lbs			B20080		-
(3)	1		XT RADIOGRAPHIC SUSPENSION WITH INBOARD MOUNTING.	784 lbs	102 btu	B2004B	B20041	XTS1	C
(4)	2		LONGITUDINAL STATIONARY RAIL FOR XT SUSPENSION	68 lbs			---		C
(5)	1		GRID HOLDER (FIELD VERIFY IDEAL LOCATION)	30 lbs		B0557W	B0557K		S
(6)	1		DONGLE	4 lbs		B8137	-	D	-
(7)	1		XR 656 DIGITAL ELEVATING TABLE	992 lbs	372 btu	B0557U	-	RT	S
(8)	1		SYSTEM CABINET	705 lbs	2440 btu	B8125	-	SKL	S
(9)	1		LONGITUDINAL DRIVE BELT 1 IN. WIDE	44 lbs			-		-
(10)	2		ANCHOR RAILS				-		-
(11)	1		OPERATORS CONSOLE	79 lbs	604 btu	B6564E B6564F B8138 CB10CB	-	WBC1	-
(12)	1		DIGITAL CHEST UNIT	595 lbs	136 btu	B0557D	-	WLS	C

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SCALE: 1/4" = 1'-0"	EQUIPMENT LAYOUT	EXISTING 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.		

EXISTING CEILING HEIGHT = 9'-0"



WALLSTAND TOMO AND/OR IMAGE PASTE	✓	
TABLE TOMO AND/OR IMAGE PASTE	✓	
WALLSTAND CROSS-TABLE TOMO		✓
EXTENDED WALLSTAND TOMO		✓

THE GE HPI TECHNICAL SUPPORT GROUP IS AN ADDITIONAL RESOURCE THAT CAN PROVIDE ANSWERS FOR GENERAL GE PRODUCT SITING QUESTIONS AND CAN BE REACHED AT (877)-305-9677 OR [MAILTO:HPITechCOE@ge.com](mailto:HPITechCOE@ge.com)

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	*CONTROL WALL TO CEILING WITH LEAD GLASS VIEWING WINDOW.
61	*COUNTER TOP FOR EQUIPMENT- PROVIDE GROMMETED OPENINGS AS REQUIRED TO ROUTE INTERCONNECT CABLES TO RACEWAY BELOW COUNTERTOP.
62	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 36 IN. W X 66.9 IN. H (2144mm X 1700mm). CONTINGENT ON A 96 IN. (2438mm) CORRIDOR WIDTH NOTE: IMAGE PASTE OPTION REQUIRES A 80.9 IN H (2050mm) HIGH OPENING FOR ACCESS.
63	X-RAY DN WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL: 800-200-9760 GE CAT. NO. X1A1BWV-0F-XIU
64	DOOR LIMIT SWITCH (NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)
65	*SINK

90	X-RAY ROOM WARNING LIGHT CONTROL PANEL REFERENCE JUNCTION POINT 'XRLC' ON SHEET 'E1' FOR DETAILED DESCRIPTION -E450RCL FOR WARNING LIGHT CONTROL ONLY.
91	EMERGENCY OFF SWITCH (NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)
92	MAIN DISCONNECT, REFERENCE JUNCTION POINT 'A' ON SHEET E1 FOR DETAILED DESCRIPTION. N.D. E450SR2 15 AMP 120V 1PH 1W AUTO RESTART E4502RP. (20 W 48 X 48 X 6.66 IN. D)

- 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 SEISMIC 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: 59 TO 95 DEGREES (F), MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 10 DEGREES (C)/HOUR.
- o HUMIDITY: REFER TO PREINSTALLATION MANUAL FOR THE EQUIPMENT ILLUSTRATED ON THIS DRAWING.
- o REFER TO PREINSTALLATION MANUAL FOR THE EQUIPMENT ILLUSTRATED ON THIS DRAWING.
- o THE ENVIRONMENT FOR THE ELECTRONICS CABINET MUST BE CONTROLLED SO THE ABOVE RESTRICTIONS ARE NOT EXCEEDED.
- o DO NOT RESTRICT THE AIR INTAKE AT THE LOWER FRONT OR AIR EXHAUST AT THE TOP OF THE ELECTRONICS CABINETS.

DIGITAL FLAT PANEL MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 1 GAUSS TO GUARANTEE SPECIFIED IMAGING PERFORMANCE.

X-RAY TUBES MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 10 GAUSS TO GUARANTEE SPECIFIED PERFORMANCE.

SYSTEM ELECTRONICS MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 10 GAUSS TO GUARANTEE DATA INTEGRITY.

OPERATORS CONSOLE EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 10 GAUSS TO OBTAIN SPECIFIED GEOMETRIC LINEARITY.

This drawing is based on Sketch No.: Jessie Brown VA Rad room 1379 rev2

PIM R8

RQ - 150214

SHEET TITLE: EQUIPMENT LAYOUT

MODALITY TYPE: DISCOVERY XR656

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 ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. IT IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: ROOM NO. 1379

JESSE BROWN
VA MEDICAL CENTER
CHICAGO, ILLINOIS

PROJECT	REVISION
132505	02

DATE: 17.Feb.15
DRAWN BY: RET
CHECKED BY: REK
GON NO: 4118873
GON DT: 12.Feb.15

REVISION HISTORY:

2 LLM – 27.Feb.15
CHECKED BY: REK

SHEET

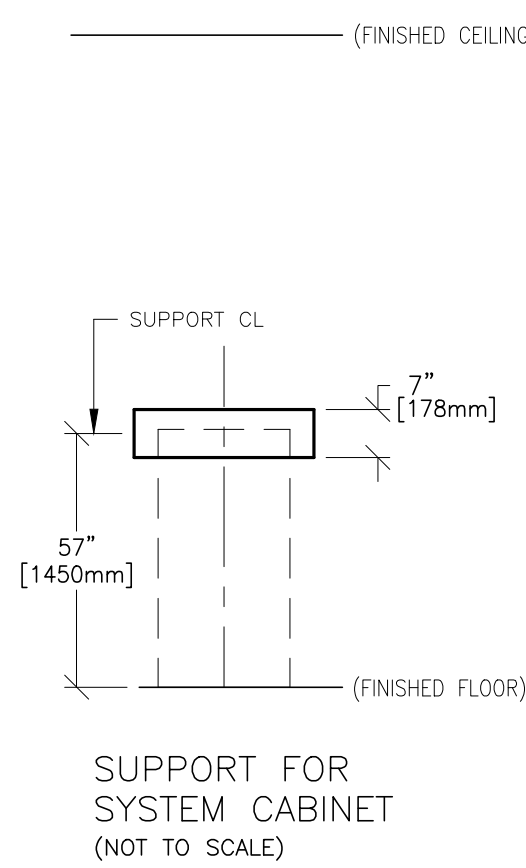
A1

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

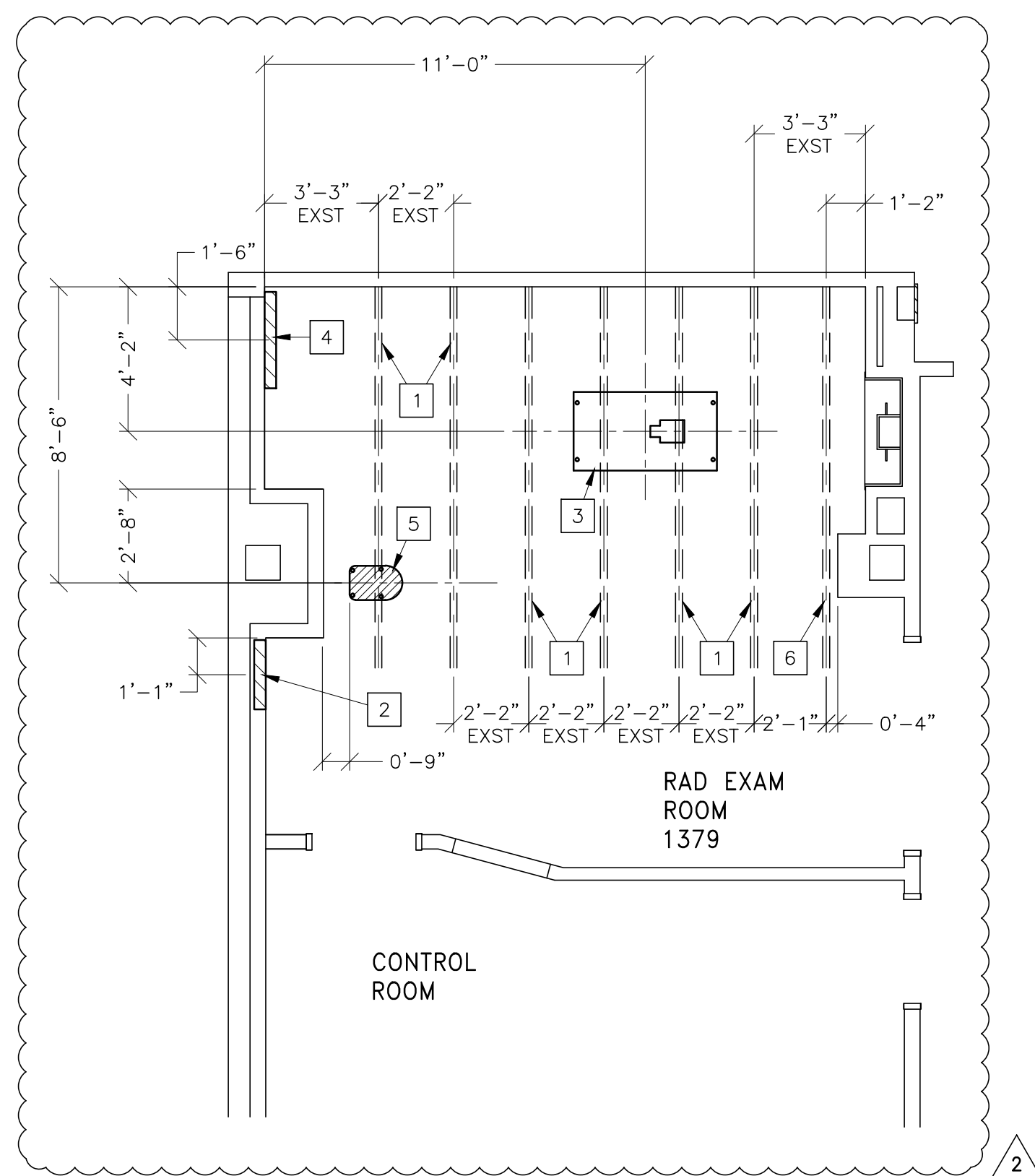
S127



S107



EXISTING CEILING HEIGHT = 9'-0"



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CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED
ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	* EXISTING - REUSE IF ADEQUATE. UNISTRUT OR EQUIVALENT SUPPORT IN CEILING FOR FASTENING CEILING SUPPORTED EQUIPMENT. SUPPORTS TO RUN CONTINUOUS WITH NO FITTINGS EXTENDING BELOW FACE OF UNISTRUT CHANNEL. SUPPORT TO WALL, BE PARALLEL SQUARE, AND IN THE SAME HORIZONTAL PLANE, FLUSH WITH THE FINISHED CEILING SURFACE AS DIMENSIONED ON SITE SPECIFIC STRUCTURAL PLAN. METHODS OF SUPPORT THAT PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE SHOULD BE FAVORED.
2	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S107, FOR GRID HOLDER.
3	FLOOR CONTACT AREA FOR TABLE
4	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S130 FOR SYSTEMS CABINET
5	FLOOR CONTACT AREA FOR CHEST READER
6	UNISTRUT OR EQUIVALENT SUPPORT IN CEILING FOR FASTENING CEILING SUPPORTED EQUIPMENT. SUPPORTS TO RUN CONTINUOUS WITH NO FITTINGS EXTENDING BELOW FACE OF UNISTRUT CHANNEL. SUPPORT TO WALL, BE PARALLEL SQUARE, AND IN THE SAME HORIZONTAL PLANE, FLUSH WITH THE FINISHED CEILING SURFACE AS DIMENSIONED ON SITE SPECIFIC STRUCTURAL PLAN. METHODS OF SUPPORT THAT PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE SHOULD BE FAVORED.

- ALL STEEL WORK AND PARTS NECESSARY TO SUPPORT CEILING MOUNTED TUBE HANGER OR OTHER EQUIPMENT ARE TO BE SUPPLIED BY THE CUSTOMER OR HIS CONTRACTORS. THE UNISTRUT OR EQUIVALENT STRUCTURE SHOULD RUN CONTINUOUS WITH NO FITTINGS, EXTENDING BELOW FACE OF UNISTRUT CHANNEL, RUN WALL TO WALL, BE PARALLEL, SQUARE AND IN THE SAME HORIZONTAL PLANE FLUSH WITH FINISHED CEILING. THE SYSTEM IS TO BE CROSS BRACED VERTICALLY, HORIZONTALLY AND DIAGONALLY TO ALLOW NO MOVEMENT AND A MAXIMUM OF 1.58mm(1/16") DEFLECTION. CLOSURE STRIPS SHALL BE PROVIDED FOR AREAS OF UNISTRUT EXPOSED AND WITHOUT MOUNTING UNITS.
- 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 6,35mm (1/4") BELOW THE FINISHED CEILING.
- CONTROL WALLS WITH TUBE HANGER PASSAGE ABOVE SHALL BE CONSTRUCTED TO 2130mm (7'-0") HIGH.
- FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 3.17mm (1/8") IN 3050mm (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.

PIM R8

RQ - 150214

SHEET

S

SHEET TITLE: STRUCTURAL LAYOUT

MODALITY TYPE: DISCOVERY XR656

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO DETAILS TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. IT IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: ROOM NO. 1379
JESSE BROWN
VA MEDICAL CENTER
CHICAGO, ILLINOIS

PROJECT	REVISION
132505	02
DATE: 17.Feb.15	
DRAWN BY: RET	
CHECKED BY: REK	
GON NO: 4118873	
GON DT: 12.Feb.15	

REVISION HISTORY:

2 LLM - 27.Feb.15
CHECKED BY: REK

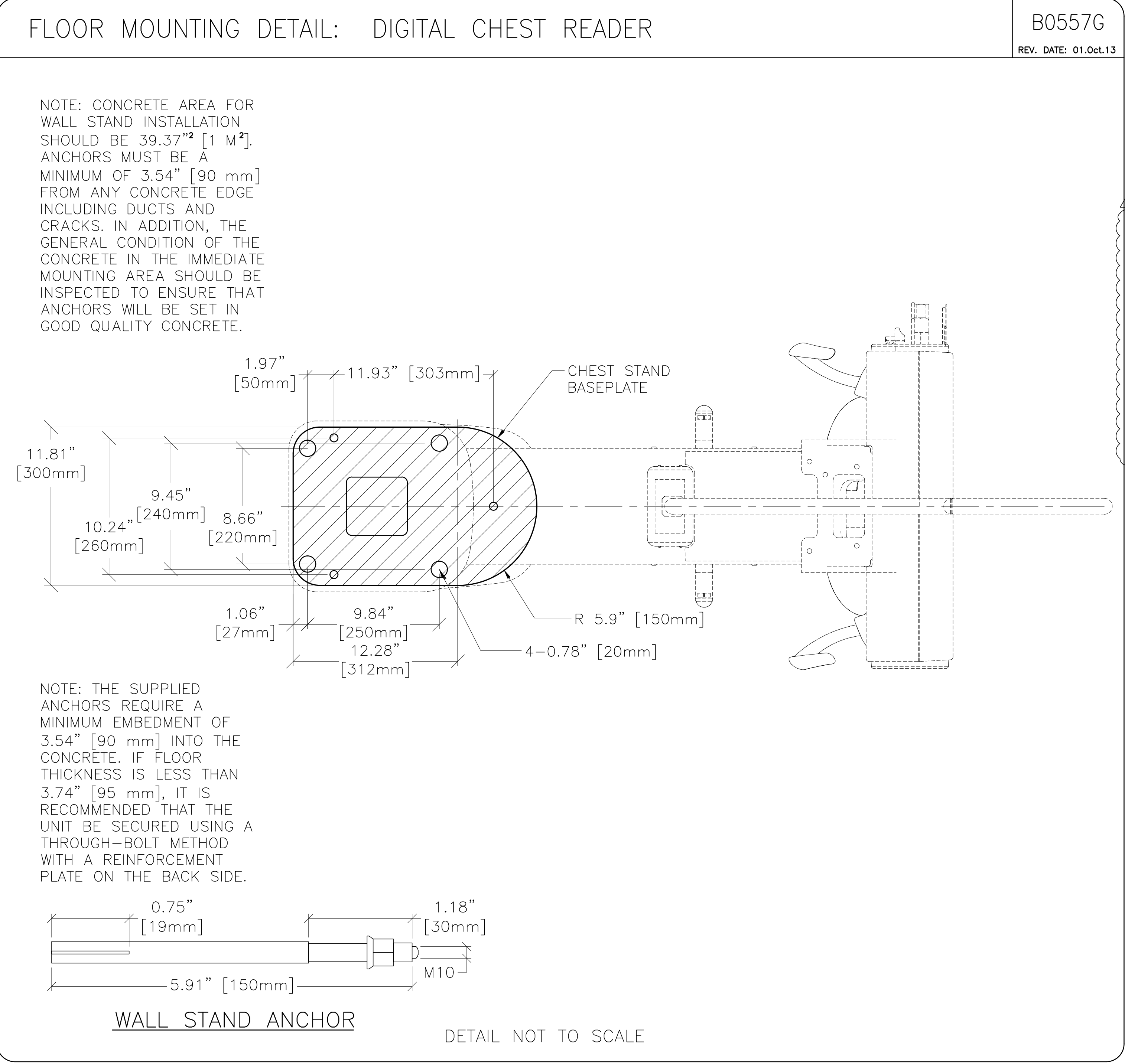
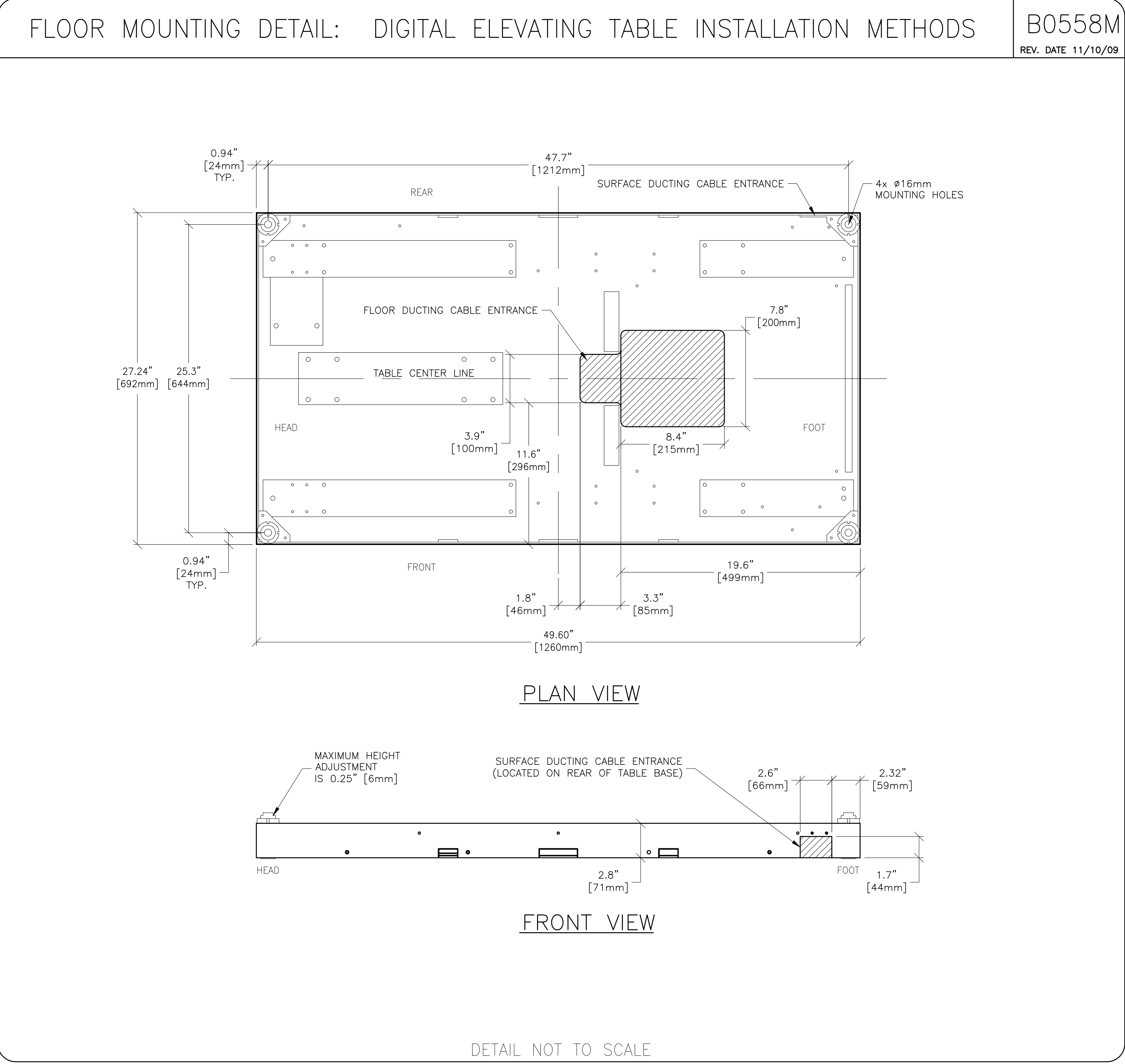
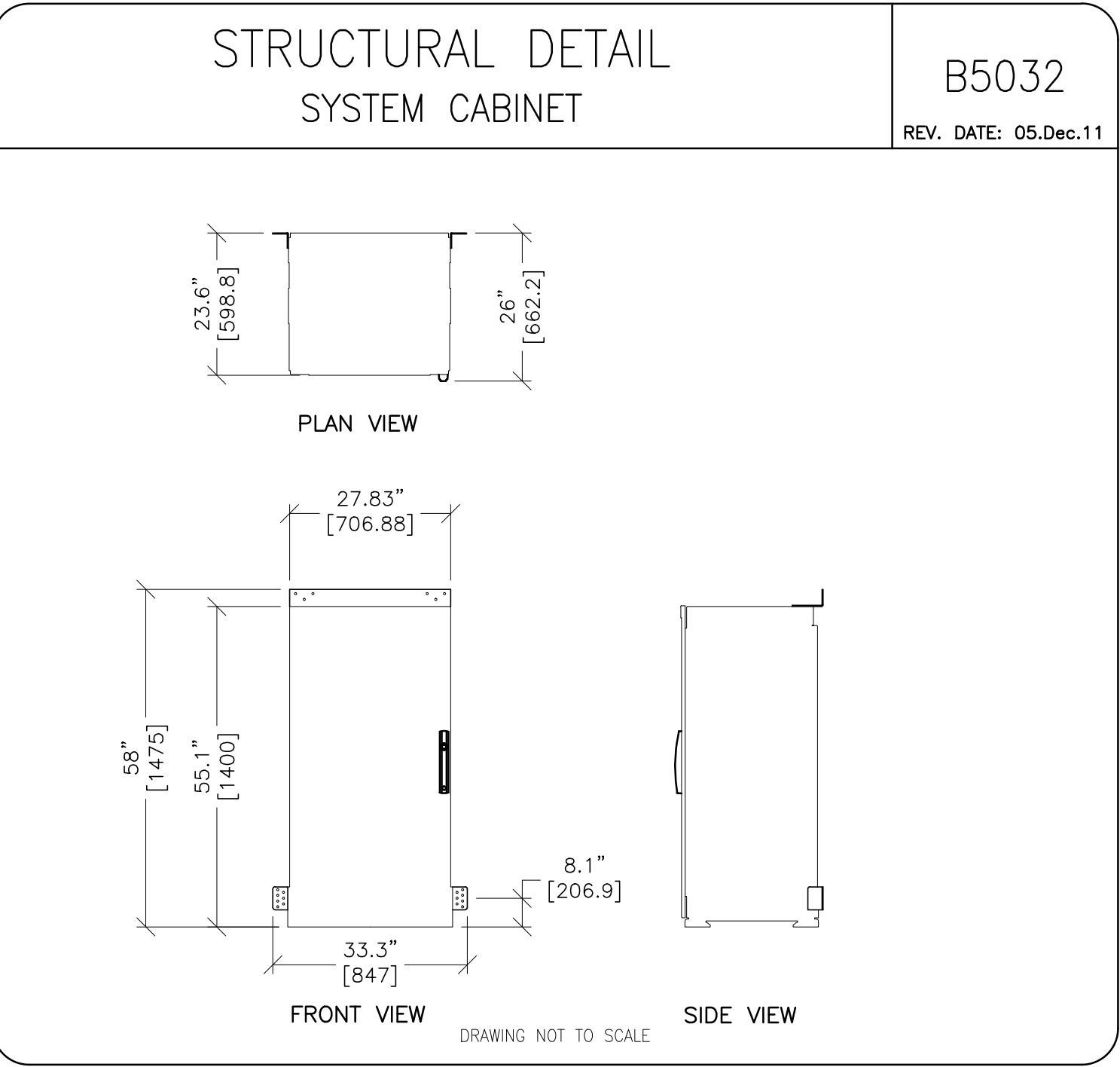
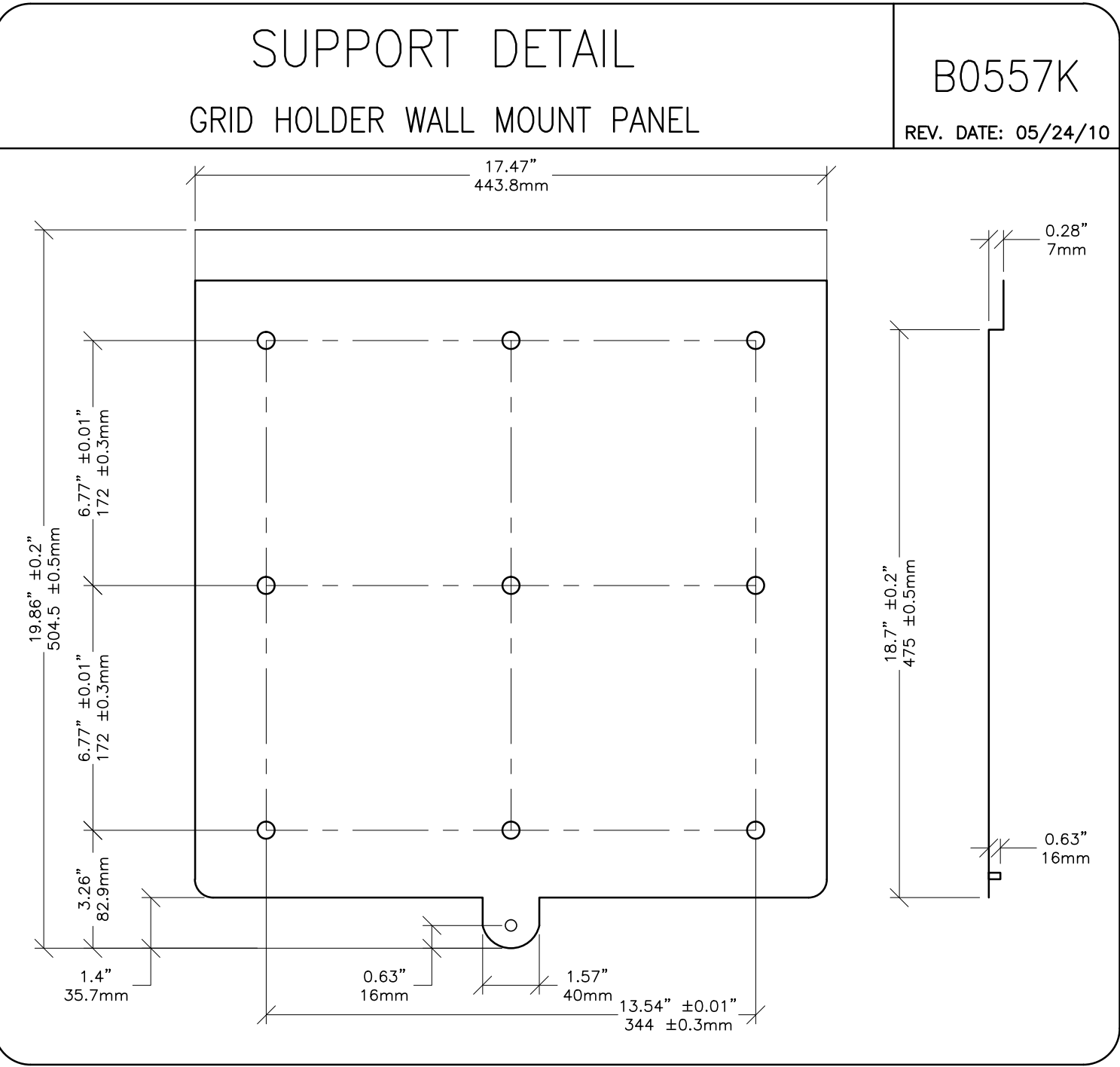
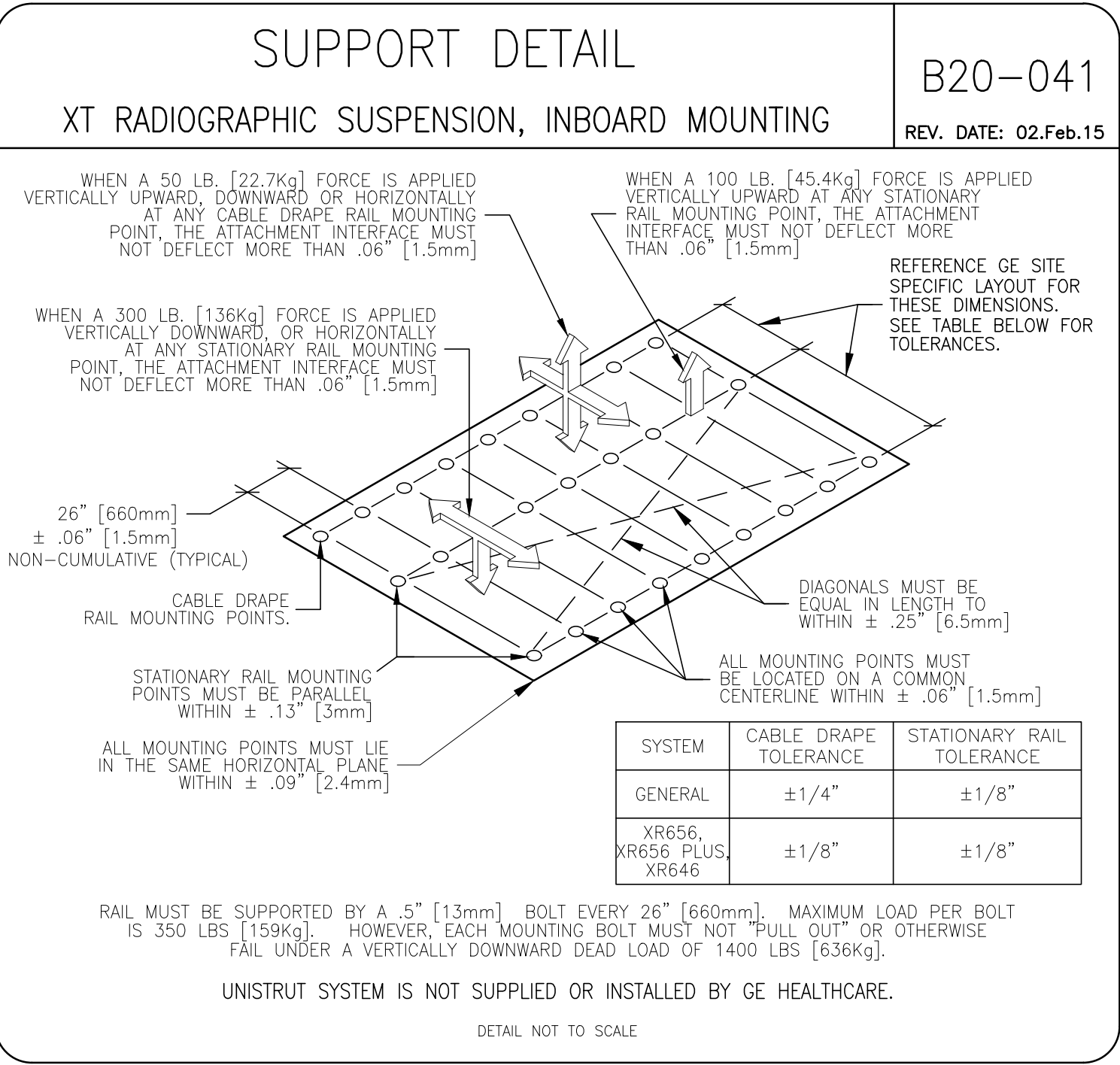
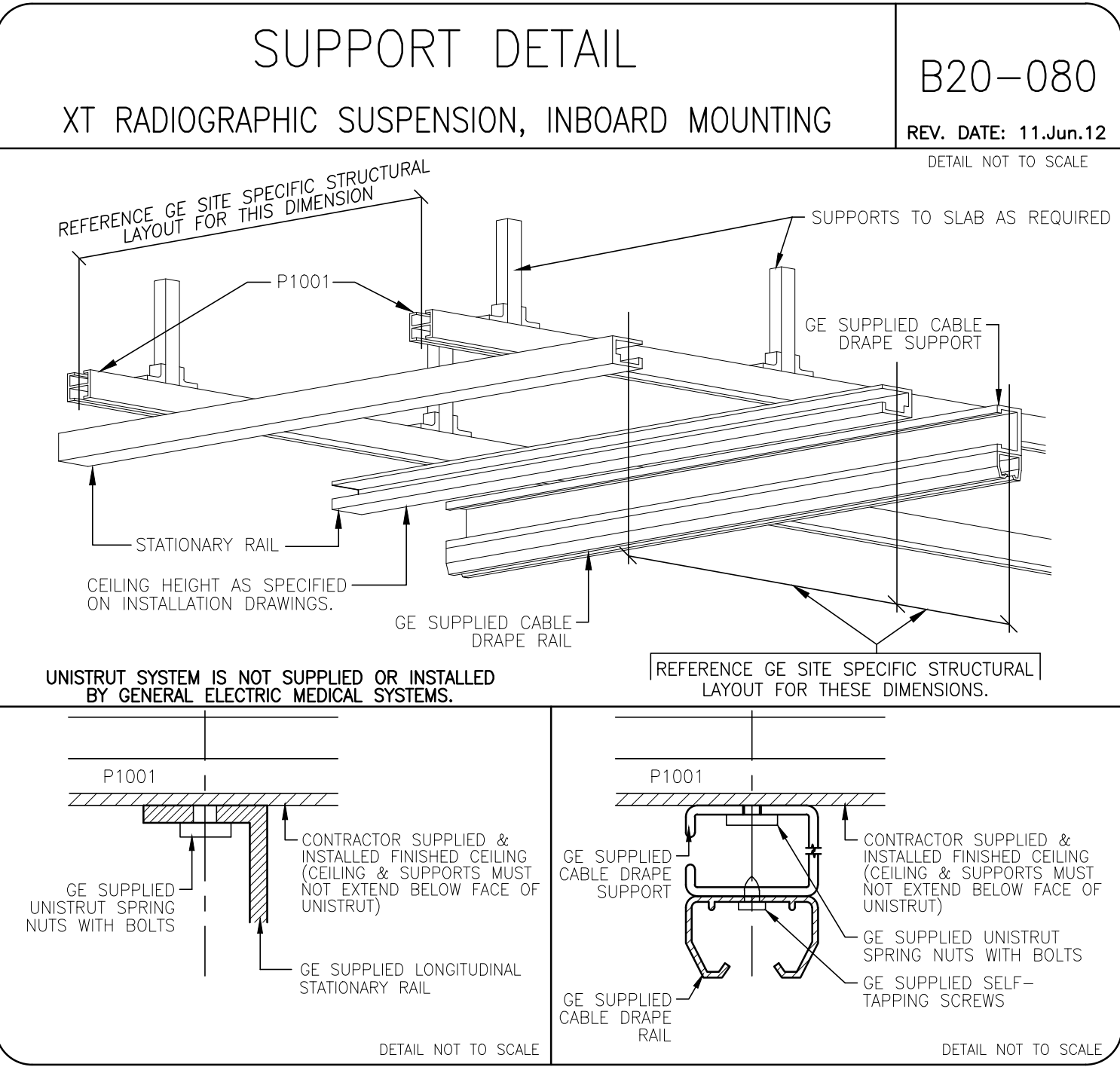
SHEET

S1

NFSH-1000

GE Healthcare

Healthcare Project Implementation – Design Center
 Milwaukee, Wisconsin



GE Healthcare

Healthcare Project Implementation – Design Center

Milwaukee, Wisconsin

STRUCTURAL DETAILS

MODALITY TYPE: DISCOVERY XR656

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPLIANCE, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO THE ACTING CONSTRUCTION SPECIFICATIONS. HOWEVER, THE USER SHALL BE RESPONSIBLE FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: ROOM NO. 1379

JESSE BROWN

VA MEDICAL CENTER

CHICAGO, ILLINOIS

PROJECT REVISION

132505 02

DATE: 17.Feb.15

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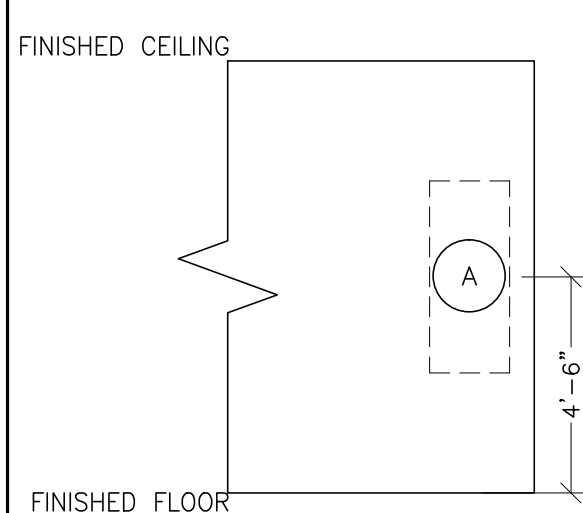
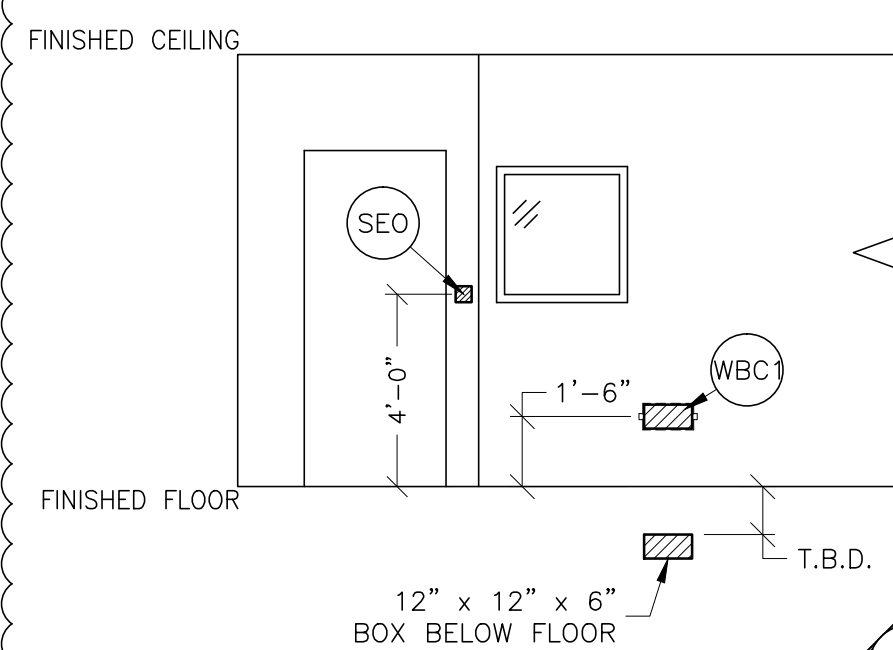
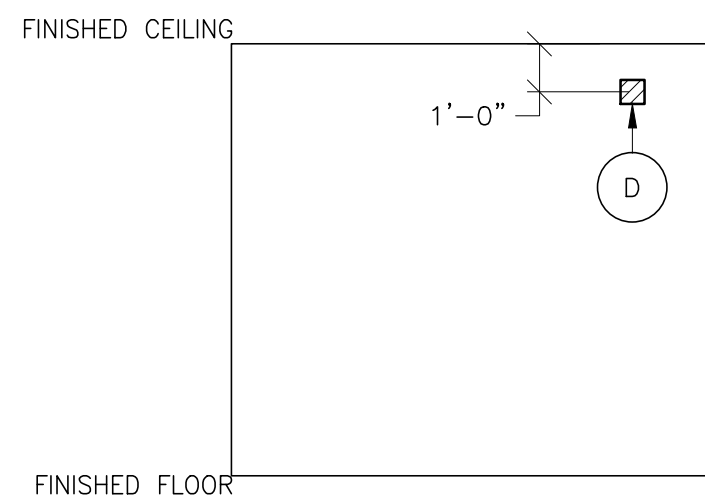
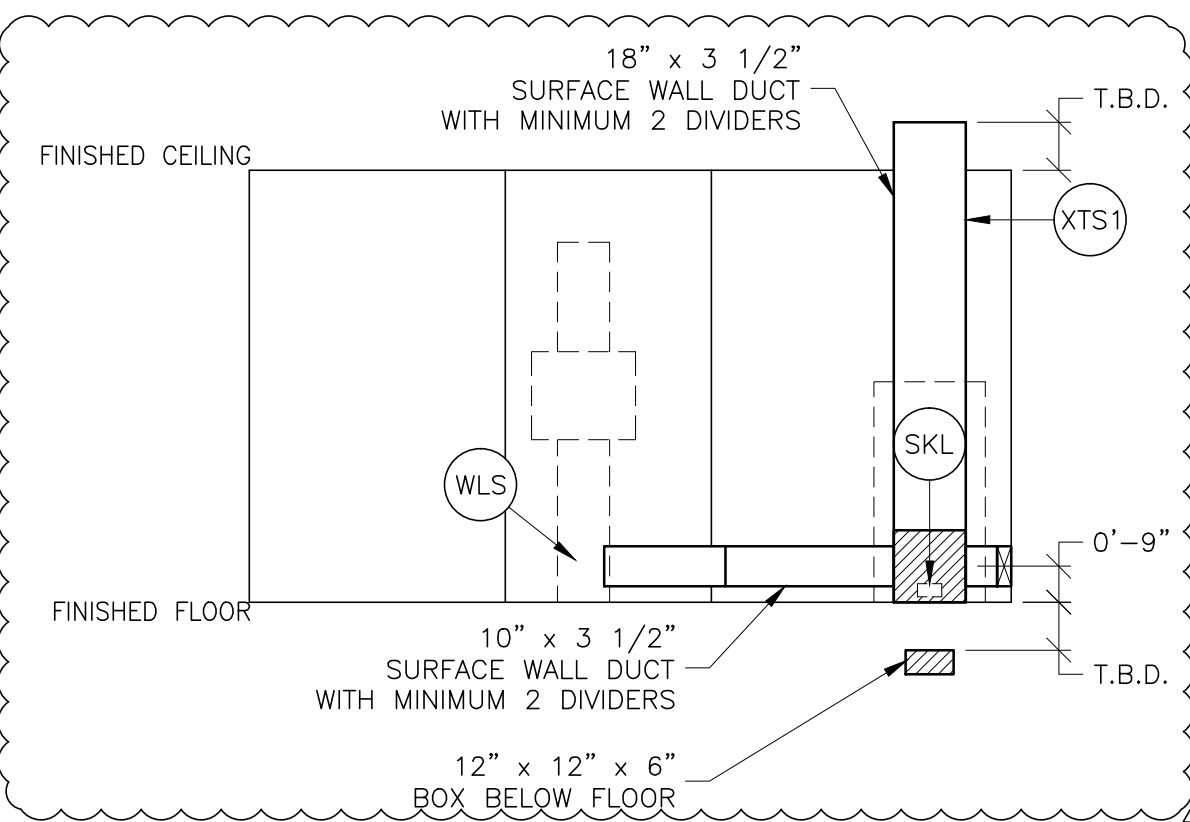
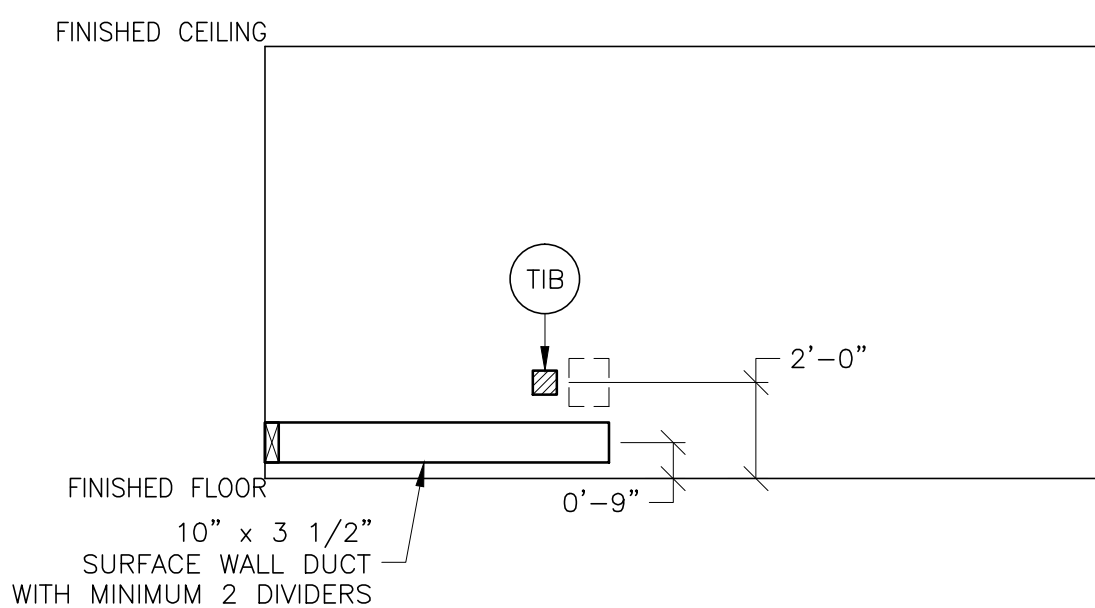
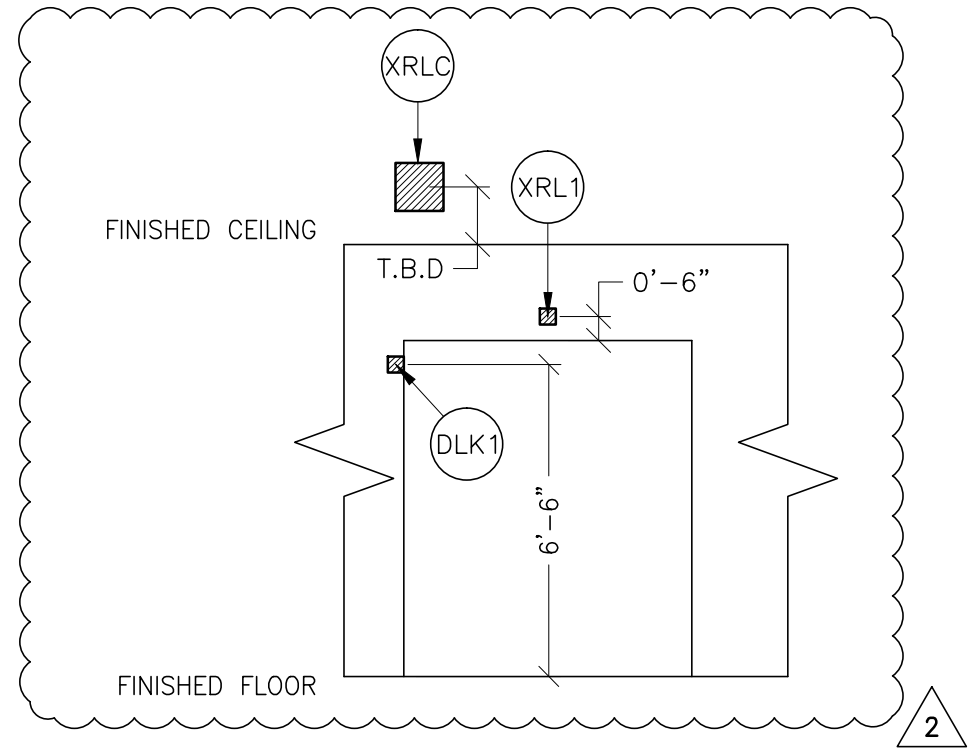
SHEET

S2

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

ELECTRICAL PLAN

EXISTING CEILING HEIGHT = 9'-0"

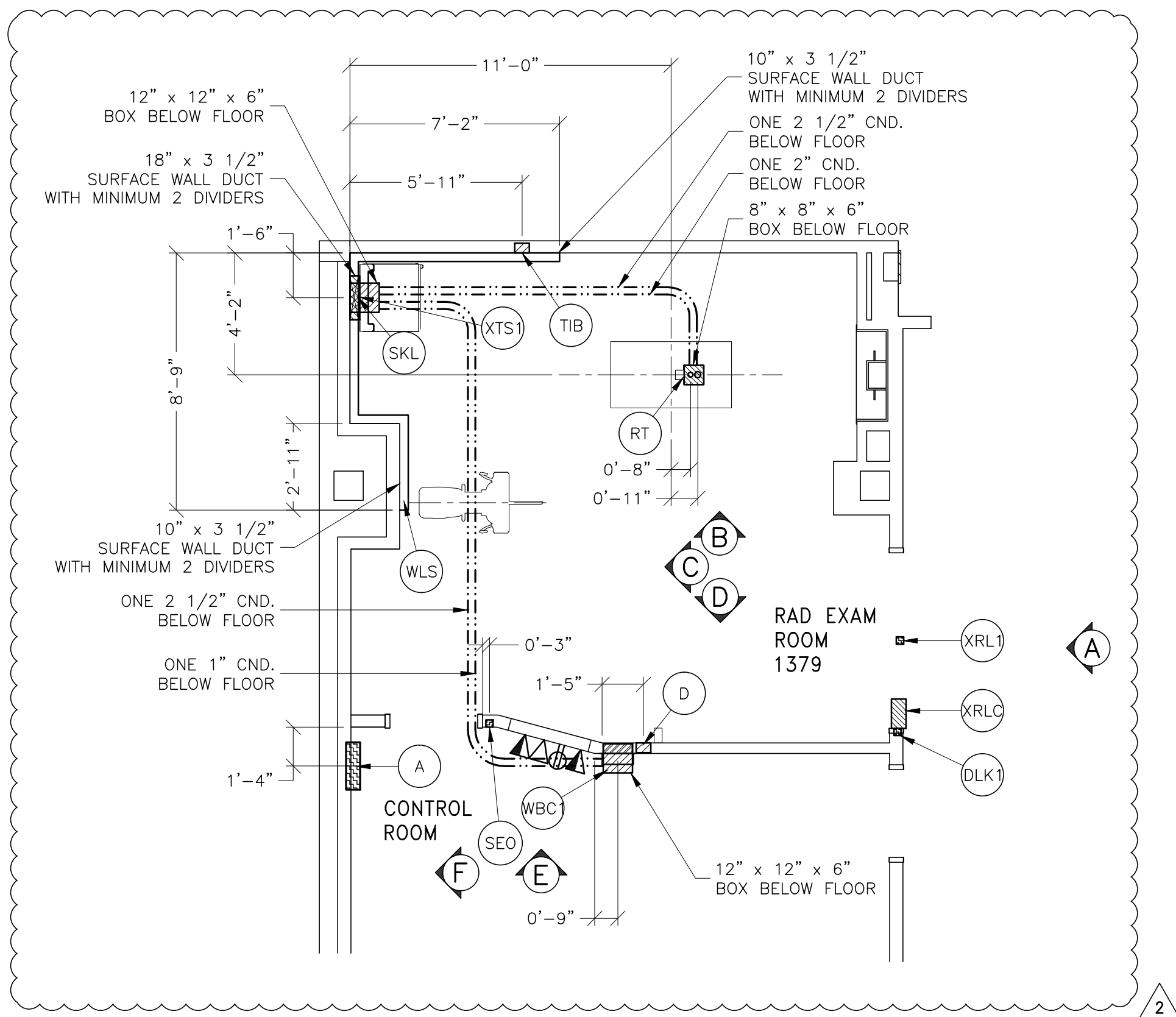


JEDI 80kw SYSTEMS CABINET						REV. DATE: 03.FEB.15
o CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.						
o RECOMMENDED FEEDER SIZES FROM DISTRIBUTION TRANSFORMER TO THE POWER CABINET						
o NEUTRAL MUST BE TERMINATED INSIDE THE MAIN DISCONNECT PANEL AND NOT AT ANY GE CABINET						
o THE GROUNDING CONDUCTOR WILL BE OF THE SAME SIZE AS THE FEEDER. 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.						
o FOR A FULL SYSTEM UPS, REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.						
POWER SUPPLY VOLTAGE						
RUN LENGTH IN FEET	342-180	360-440	373-450	396-484	414-506	432-528
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

JUNCTION POINT NOTES

- o ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, CABLE TRAY, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMERS ELECTRICAL CONTRACTOR.
- o CONDUIT AND DUCT RUNS SHALL HAVE SWEEP RADIUS BENDS
- o CONDUITS AND DUCT ABOVE CEILING OR BELOW FINISHED FLOOR MUST BE INSTALLED AS NEAR TO CEILING OR FLOOR AS POSSIBLE TO REDUCE RUN LENGTH.
- o CEILING MOUNTED JUNCTION BOXES ILLUSTRATED ON THIS PLAN MUST BE INSTALLED FLUSH WITH FINISHED CEILING.
- o 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.
- o ALL OPENINGS IN ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED OFF WITH GROMMET MATERIAL BY THE CUSTOMERS CONTRACTOR.
- o GENERAL CONTRACTOR TO INSERT PULL CORDS FOR ALL CABLE RUN CONDUITS BETWEEN THE EQUIPMENT ROOM AND THE OPERATORS CONTROL ROOM.
- o 10 FOOT PIGTAILS AT ALL JUNCTION POINTS.
- o ALL WIRING MUST BE THIN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT INSULATION. **ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.**
- o 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.



ADDITIONAL CONDUIT RUNS FOR
DISCOVERY XR656, XR656 PLUS
AND OPTIMA XR646

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

REV DATE: 03Feb15			
XRLC	TO	XRL1	ONE 1/2" CND.
XRLC	TO	SKL	ONE 1/2" CND.
XRLC	TO	120-V 1 st 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.
SKL	TO	TIB	ONE 2" CND.
WBC1	TO	TIB	ONE 1" CND.
SKL	TO	D	ONE 1" CND.
WBC1	TO	D	ONE 2" CND.

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

ELECTRICAL OUTLET LEGEND

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



DUPLEX HOSPITAL GRADE, DEDICATED OUTLET 120-V,
 SINGLE PHASE POWER



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)

GE Project Manager: ERIC GIERAS
Telephone: 708-597-4432

THE GE HPI TECHNICAL SUPPORT GROUP IS AN ADDITIONAL RESOURCE THAT CAN PROVIDE ANSWERS FOR GENERAL GE PRODUCT SITING QUESTIONS AND CAN BE REACHED AT (877)-305-9677 OR [MAILTO:HPITechCOE@ge.com](mailto:HPITechCOE@ge.com)

JUNCTION POINT DESCRIPTIONS

○ POINT		THE FOLLOWING MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER'S ELECTRICAL CONTRACTOR		
	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
A	MAIN DISCONNECT *AVAILABLE FROM GEMS CALL 800-279-7925 OR LOCAL GE INSTALLATION PROJECT MGR	1	80-AMP CIRCUIT BREAKER PANEL GEMS CAT. NO. E4502ST DR WITH AUTO RESTART FEATURE-E4502RP BCE REMOTE EMERGENCY OFF (SED) PUSHBUTTON AND STAINLESS STEEL WALL PLATE WITH EACH MAIN DISCONNECT	ELEC-15
D	DDOGLER	1	COVERPLATE 1 1/2 IN. DIA. CHASE NIPPLE 6 X 6 X 4 IN. BOX	ELEC-8
DLK1	DDOR SWITCH (NEEDED ONLY IF REQUIRED BY STATE/ LOCAL CODES)	1	ROOM DDOR INTERLOCK LIMIT SWITCH IN FRAME, NORMALLY OPEN (<24V) 1 SINGLE GANGE BOX	
RT	TABLE	2	SUITABLE BUSHING & LOCKNUT	ELEC-9
SED	EMERGENCY OFF	1	PROVIDE A SINGLE GANGE, 2 1/2 IN. DEEP, FLUSH MTD. WALL BOX.	ELEC-16 ELEC-167
SKL	SYSTEMS CABINET	2	SPLIT COVERPLATE 3 1/2 IN. DIA. CHASE NIPPLE 18 X 18 X 4 IN. BOX	ELEC-7
T1B	TETHER INTERFACE BOX	1	COVERPLATE 1 1/2 IN. DIA. CHASE NIPPLE 6 X 6 X 4 IN. BOX	ELEC-8
WBC1	OPERATORS CONSOLE	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5
WLS	CHEST UNIT	1	12 X 6 X 4 IN. BOX	ELEC-173
XRL1	WARNING LIGHT	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5
XRL2	WARNING LIGHT CONTROLLER *AVAILABLE FROM GEMS CALL 800-279-7925 OR LOCAL GE INSTALLATION PROJECT MGR	1	SINGLE GANGE BOX "X-RAY ON" INCANDESCENT LIGHT FIXTURE. 24V, 8 AMP DR LESS LOW VOLTAGE SOURCE. DO NOT USE FLUORESCENT FIXTURES.	
XLRC	WARNING LIGHT CONTROLLER *AVAILABLE FROM GEMS CALL 800-279-7925 OR LOCAL GE INSTALLATION PROJECT MGR	1	E4502RL WARNING LIGHT CONTROL DR EQUIV MAX 24V CONTROLLER	ELEC-72
XTS1	X-RAY TUBE HANGER	1	32 IN. OF GROMMET MATERIAL FOR	ELEC-6

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
XRLC > 1 PHASE	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
A > SED	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
SKL > XRLC	2-NO. 14 BLACK, 1-NO. 14 RED, 1-NO. 14 WHITE
SKL > DLK1	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
A > SKL	3-BLACK, 1-GREEN - REFER TO FEEDER TABLE
4BO-V > A	3-BLACK, 1-WHITE, 1-GREEN - REFER TO FEEDER TABLE

SHEET TITLE: ELECTRICAL LAYOUT

MODALITY TYPE: DISCOVERY XR656

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO DETAILS TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. IT IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: ROOM NO. 1379

JESSE BROWN
VA MEDICAL CENTER
CHICAGO, ILLINOIS

PROJECT	REVISION
132505	02
DATE: 17.Feb.15	
DRAWN BY: RET	
CHECKED BY: REK	
GON NO: 4118873	
GON DT: 12.Feb.15	

REVISION HISTORY:

2 LLM – 27.Feb.15

SHEET
E 1

GE Healthcare

Healthcare Project Implementation – Design Center
 Milwaukee, Wisconsin

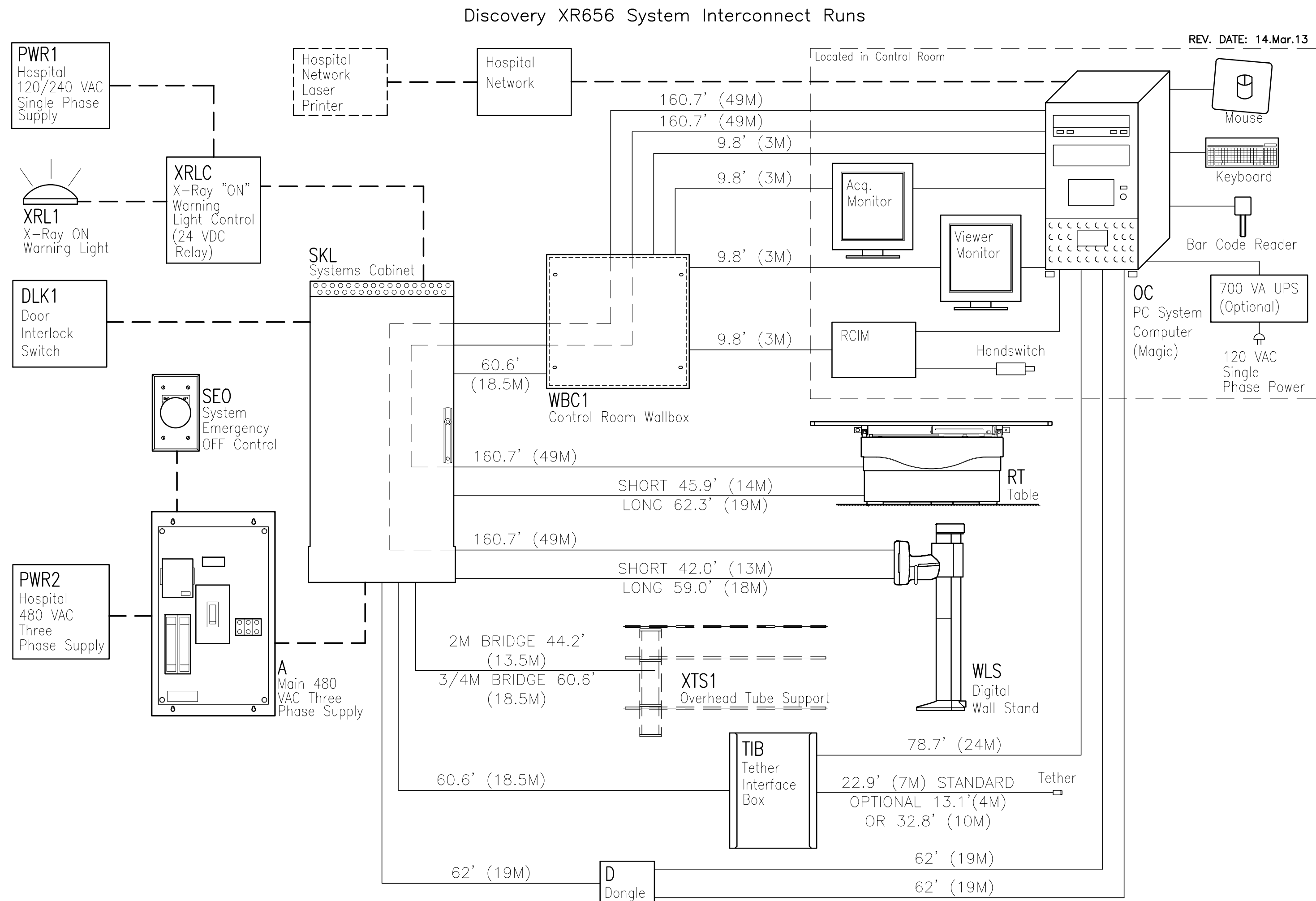
This drawing is based on Sketch No.: Jessie Brown VA Rad room 1379 rev2

PIM R8

RQ - 150214

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

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

JEDI 80kw SYSTEMS CABINET REV. DATE: 24.OCT.14

VOLTAGE PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS. RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, WITHOUT NEUTRAL, 50 OR 60 HZ.

REQUIRED POWER SUPPLY: WYE DISTRIBUTION MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF THE RANGES IN TABLE A.

NOMINAL VOLTAGE	NORMAL RANGE ±10 PERCENT	CURRENT (AMPS)		MINIMUM OVERCURRENT PROTECTION
		MAX. MOMENTARY	CONTINUOUS	
380	342-418	190	7	95-A
400	360-440	180	6.7	90-A
415	373-456	170	6.2	85-A
440	396-484	163	6	82-A
460	414-506	156	5.7	78-A
480	432-528	150	5.5	75-A

ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE

NOTE LOW LINE CONDITIONS MAY INHIBIT SOME HIGH kVp 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 =4.6 KVA. (MAX DEMAND = 125 KVA)

DEMAND	XR656 JEDI 80 KW
kVa * POWER FACTOR AT	125 0.73
mA	630
kVp	80

* DEMAND INCLUDES POWER FOR ENTIRE 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 150 KVA. SYNTHESIZED POWER FEED IS NOT ACCEPTABLE

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]

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

GE Healthcare



Healthcare Project Implementation - Design Center Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL SPECIFICATIONS

MODALITY TYPE: DISCOVERY XR656

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 TO DETAILS AND SPECIFICATIONS OF THE EQUIPMENT. HOWEVER, THE USER SHALL BE RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS TO THE PLAN. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: ROOM NO. 1379

JESSE BROWN
VA MEDICAL CENTER
CHICAGO, ILLINOIS

PROJECT	REVISION
132505	02
DATE:	17.Feb.15
DRAWN BY:	RET
CHECKED BY:	REK
GON NO:	4118873
GON DT:	12.Feb.15

REVISION HISTORY:	
2	LLM - 27.Feb.15
CHECKED BY: REK	

SHEET

E2

472-353

ELECTRICAL DETAIL
BOX WITH COVERPLATE (TYPICAL)

ELEC-8
REV. DATE: 09/30/94

OUTLET BOX

HARDWARE

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
HORIZONTAL WALL DUCT (TYPICAL)

ELEC-5
REV. DATE: 03/19/04

TYPICAL WALL DUCT

REMOVABLE DUCT COVER

FINISHED FLOOR

GROMMETED OPENING

REMOVABLE SECTION OF WALL DUCT COVER

REFER TO CHART FOR MINIMUM DIVIDER REQUIREMENT
LOCAL CODES MAY REQUIRE ADDITIONAL DIVIDERS

DUCT WIDTH	MINIMUM DIVIDERS REQUIRED
24" [610mm]	2
18" [457mm]	2
10" [254mm]	2
6" [152mm]	1
4" [102mm]	1

DUCT WIDTH

MINIMUM DIVIDERS REQUIRED

24" [610mm] 2

18" [457mm] 2

10" [254mm] 2

6" [152mm] 1

4" [102mm] 1

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
VERTICAL WALL DUCT (TYPICAL)

ELEC-6
REV. DATE: 03/19/04

REFER TO CHART FOR MINIMUM DIVIDER REQUIREMENT
LOCAL CODES MAY REQUIRE ADDITIONAL DIVIDERS

ELECTRICAL DUCT

DUCT WIDTH

EQUAL

EQUAL

REMOVABLE DUCT COVER

GROMMETED OPENING

RUBBER GROMMET

COVER PLATE TO BE REMOVABLE

ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL SCREWS AS SHOWN

REMOVABLE SECTION OF WALL DUCT

REMOVABLE DUCT COVER

DUCT WIDTH	MINIMUM DIVIDERS REQUIRED
24" [610mm]	2
18" [457mm]	2
10" [254mm]	2
6" [152mm]	1
4" [102mm]	1

DUCT WIDTH

MINIMUM DIVIDERS REQUIRED

24" [610mm] 2

18" [457mm] 2

10" [254mm] 2

6" [152mm] 1

4" [102mm] 1

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
CONDUITS THRU-FLOOR (TYPICAL)

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

FINISHED FLOOR

1.5" (38 mm) TYP.

HARDWARE

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
BOX WITH SPLIT COVERPLATE (TYPICAL)

ELEC-7
REV. DATE: 09/30/94

OUTLET BOX

SPLIT COVERPLATE

HARDWARE

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
WARNING LIGHT DIAGRAM

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

GE X-RAY ON SIGNAL

MAXIMUM 24-VAC

E4502RL
X-RAY ROOM WARNING
LIGHT CONTROL PANEL

X-RAY WARNING LIGHT IS NOT PART OF THIS CAT. NO.

120-VAC 15A MAXIMUM

0-VAC

X-RAY WARNING LIGHT(S)

10A RATED CONTACTOR

UNLESS SPECIFIED ON SHEET A1 AS BEING INCLUDED ON EQUIPMENT ORDER,
ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER'S CONTRACTOR

DRAWING NOT TO SCALE

ELECTRICAL DETAIL
EMERGENCY OFF BUTTON

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

PLAN VIEW

FRONT VIEW

SIDE VIEW

SINGLE GANG BOX
SUPPLIED BY CONTRACTOR

PLATE & OFF BUTTON

2 1/2" [64mm]

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
ROOM POWER SUPPLY

ELEC-167
REV. DATE: 04-08-10

3 Phase & GND

Feeder wire and grounding cable supplied by the customer. Wires are to be provided by customer with inlet to SKL with 78 in. (2m) for internal cabinet routing.

Connect the customer supplied breaker box to the Emergency Off (SEO) button using customer supplied wires. Use either normally closed or normally open contacts depending on the box.

SEO, 600V max AC/DC 10 amp

Customer supplied breaker box

SKL1 (System Cabinet)

PDU

WARNING LIGHT (XRL1)

SEE DETAIL ELEC-72

24 VAC

24 VAC

Contractor supplied wire

DLK1 (Door Switch)
Customer provided and installed switch

Normally open relay contact in cabinet

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
X-RAY MAIN DISCONNECT PANEL

ELEC-15
REV. DATE: 01/25/07

CABINET DEPTH = 6.68" [169mm]

48.0" [1219mm]

20.0" [508mm]

DETAIL NOT TO SCALE

EQUIPMENT DETAIL
WALL PLATE

ELEC-173
REV. DATE: 11.Aug.14

NOTE:
THE USE OF A WALL BOX IS REQUIRED WITH THIS SYSTEM. WALL BOX IS USED TO INTERFACE THE CABLES IN EXAM ROOM AND PATIENT ROOM. THE CABLES USED WITH THIS SYSTEM ARE TERMINATED WITH CONNECTORS THAT CAN ONLY BE USED WITH THIS SPECIFIC WALL BOX.

DETAIL NOT TO SCALE

14.6" [370mm]

13.8" [350mm]

12.7" [323mm]

6.7" [170mm]

Magic PC

Image Monitor

Magic PC System CAN Open

Magic PC Jedi CAN

Magic RS232

RCIM

Optional 120V~ 1A

Image Monitor

ELECTRICAL DETAIL
INSITE CONNECTION (TYPICAL)

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

ONE OF THE FOLLOWING TWO SELECTIONS MUST BE INSTALLED AT THE LOCATION SHOWN ON THE ELECTRICAL PLAN (SHEET E1) FOR GE INSITE CONNECTION BASED UPON SYSTEM CONFIGURATION.

A) ONE INTERNET ACCESSIBLE VIRTUAL PRIVATE NETWORK (VPN) CONNECTION WITH A STATIC IP ADDRESS, AND ONE TELEPHONE LINE - DEDICATED-DIRECT-DIALING, VOICE GRADE.

OR

B) TWO TELEPHONE LINES - ONE DEDICATED DIRECT-DISTANCE-DIALING, VOICE GRADE AND ONE A DEDICATED DATA LINE.

FINISHED CEILING

FINISHED FLOOR

TO BE DETERMINED

SINGLE GANG J.B.

1" CONDUIT FROM J.B. TO ABOVE FINISHED CEILING.

COVERPLATE WITH TWO TELEPHONE RECEPTACLES OR ONE TELEPHONE RECEPTACLE AND ONE NETWORK RECEPTACLE

ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER OR THEIR CONTRACTOR.

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
BOX WITH COVERPLATE AND NETWORK JACK

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

BOX

NETWORK JACK

COVERPLATE

DETAIL NOT TO SCALE

Healthcare Project Implementation - Design Center Milwaukee, Wisconsin

ELECTRICAL DETAILS

MODALITY TYPE: DISCOVERY XR656

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ROOM NO. 1379

JESSE BROWN

VA MEDICAL CENTER

CHICAGO, ILLINOIS

PROJECT TITLE: ROOM NO. 1379

PROJECT TITLE: JESSE BROWN

PROJECT TITLE: VA MEDICAL CENTER

PROJECT TITLE: CHICAGO, ILLINOIS

PROJECT

REVISION

132505

02

DATE: 17.Feb.15

DRAWN BY: RET

CHECKED BY: REK

GON NO: 4118873

GON DT: 12.Feb.15

REVISION HISTORY:

2 LLM - 27.Feb.15

CHECKED BY: REK

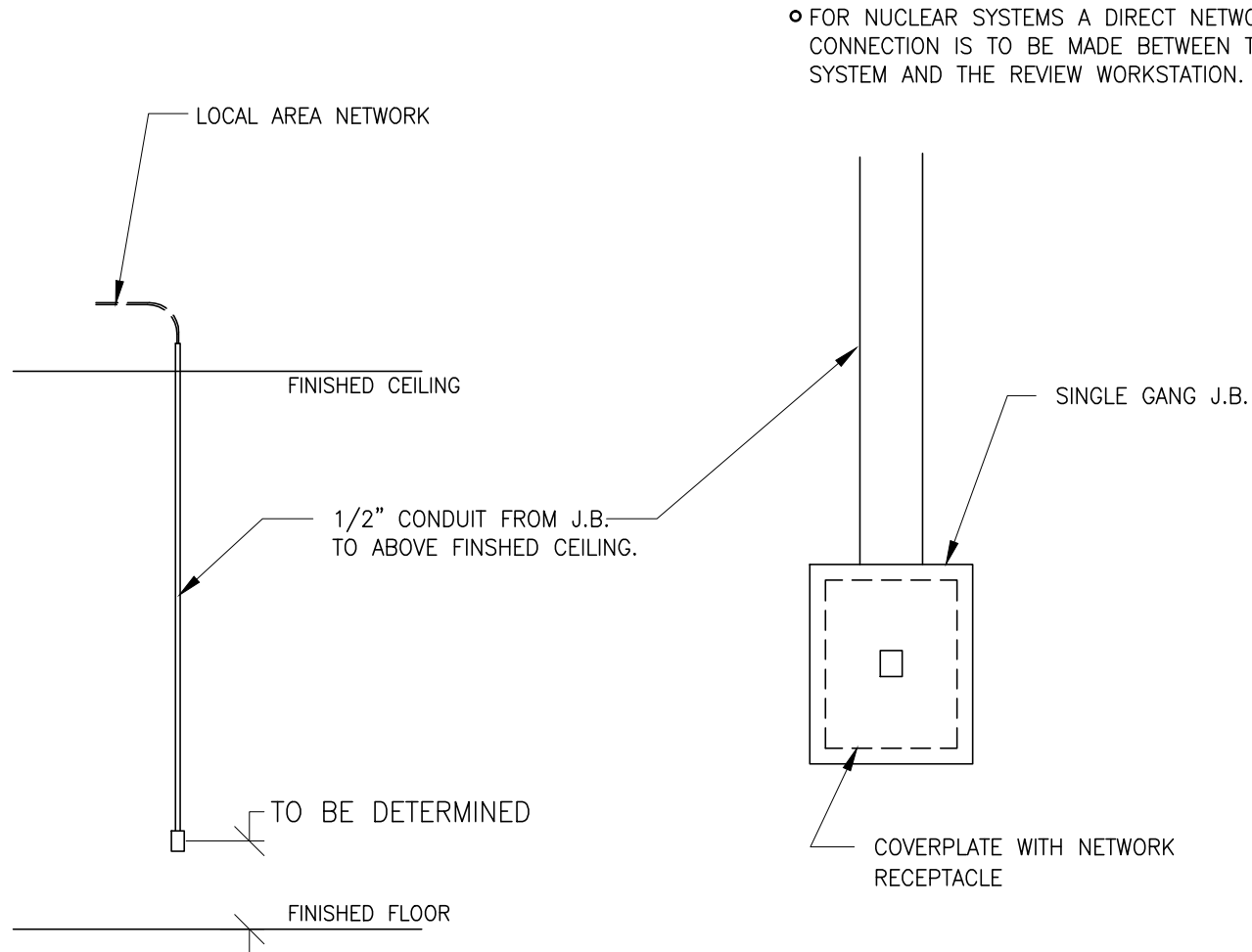
SHEET

E3

ELECTRICAL DETAIL
NETWORK CONNECTION (TYPICAL)

ELEC-84

REV. DATE: 03/06/04



DETAIL NOT TO SCALE

This drawing is based on Sketch No.: Jessie Brown VA Rad room 1379 rev2

PIM R8

RQ - 150214

PROJECT TITLE:

ROOM NO. 1379
JESSE BROWN
VA MEDICAL CENTER
CHICAGO, ILLINOIS

PROJECT	REVISION
132505	02
DATE:	17.Feb.15
DRAWN BY:	RET
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GON NO:	4118873
GON DT:	12.Feb.15

REVISION HISTORY:

2 LLM - 27.Feb.15
CHECKED BY: REK

SHEET

E4

SHEET TITLE: ELECTRICAL DETAILS

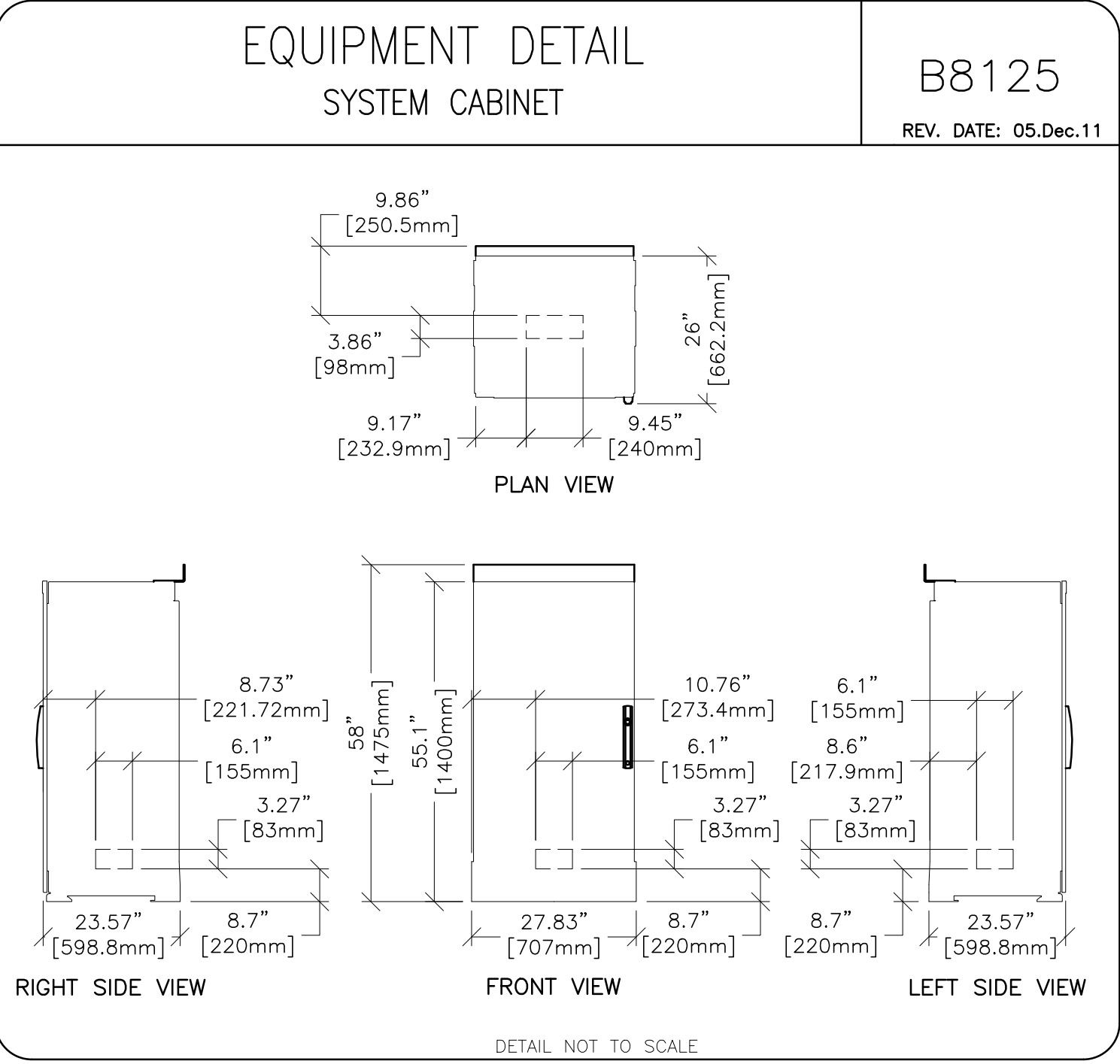
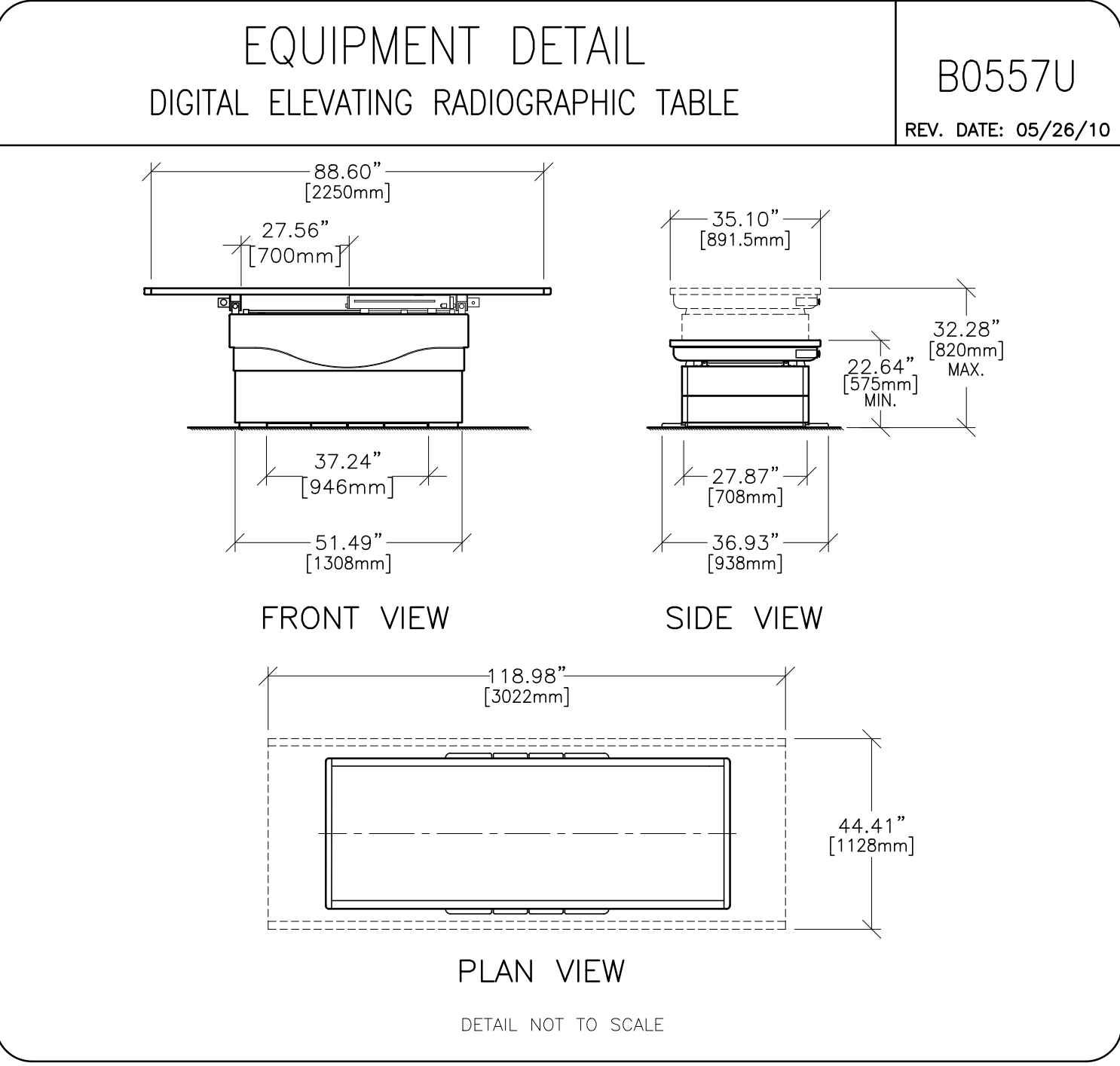
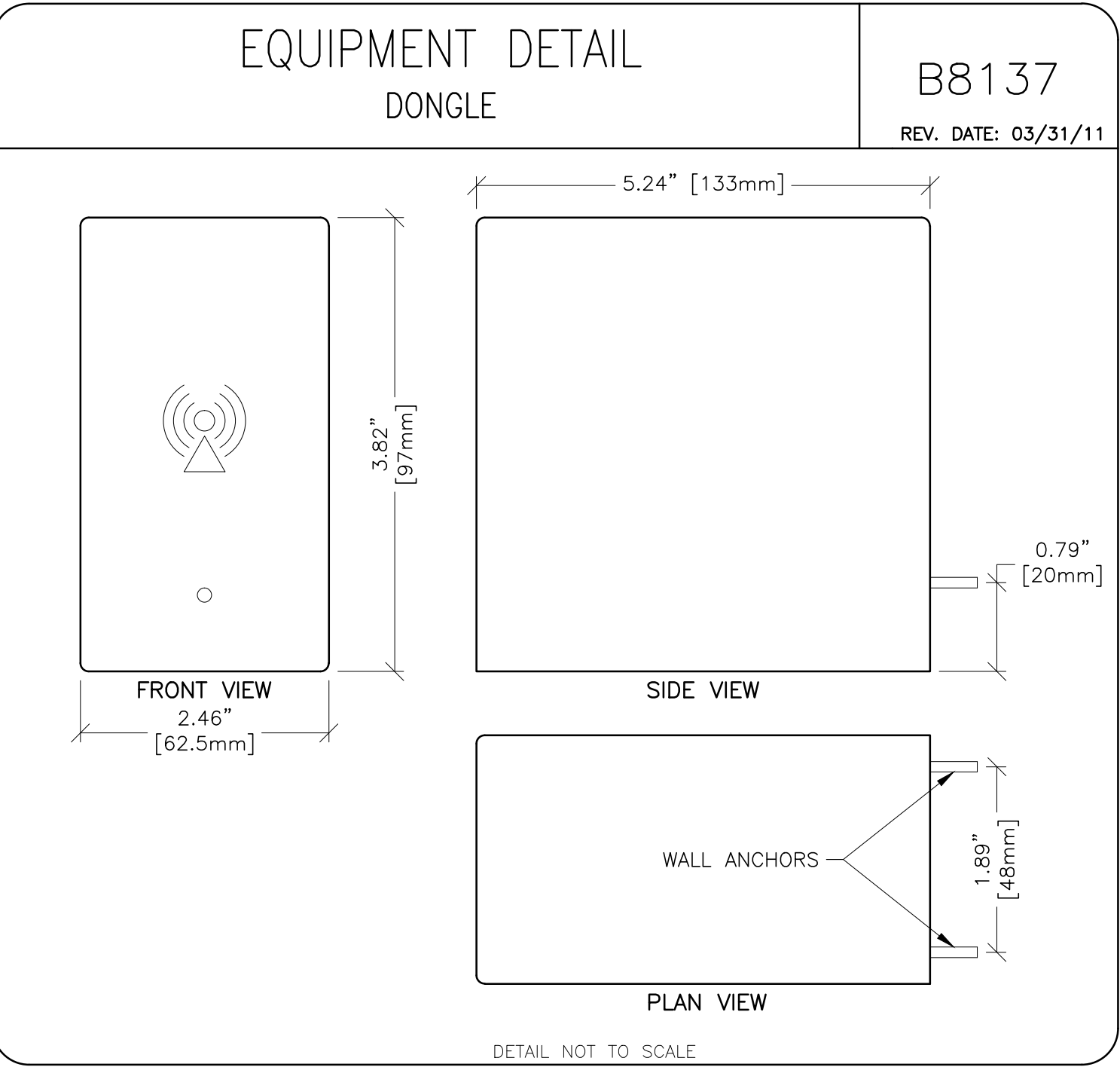
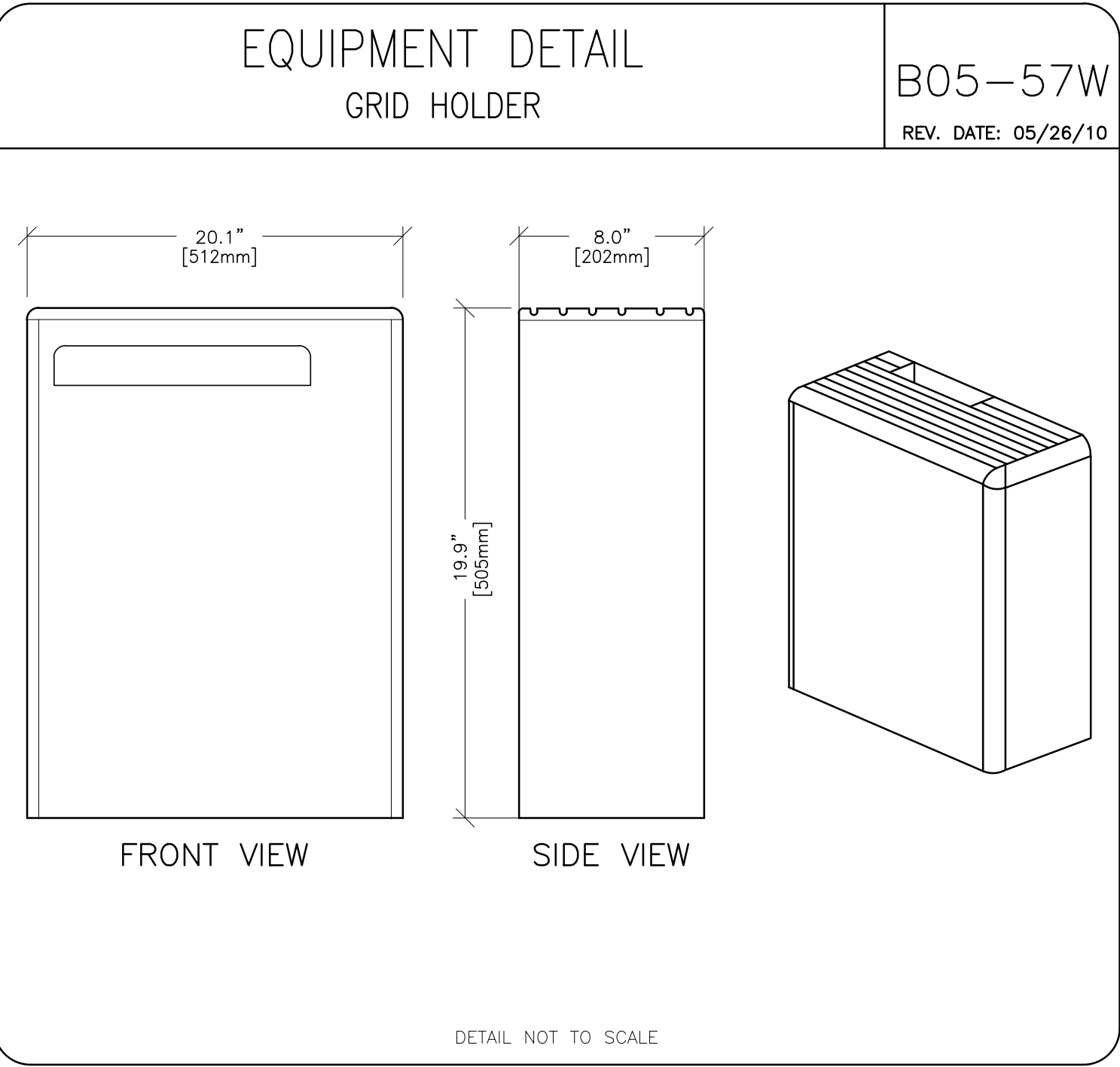
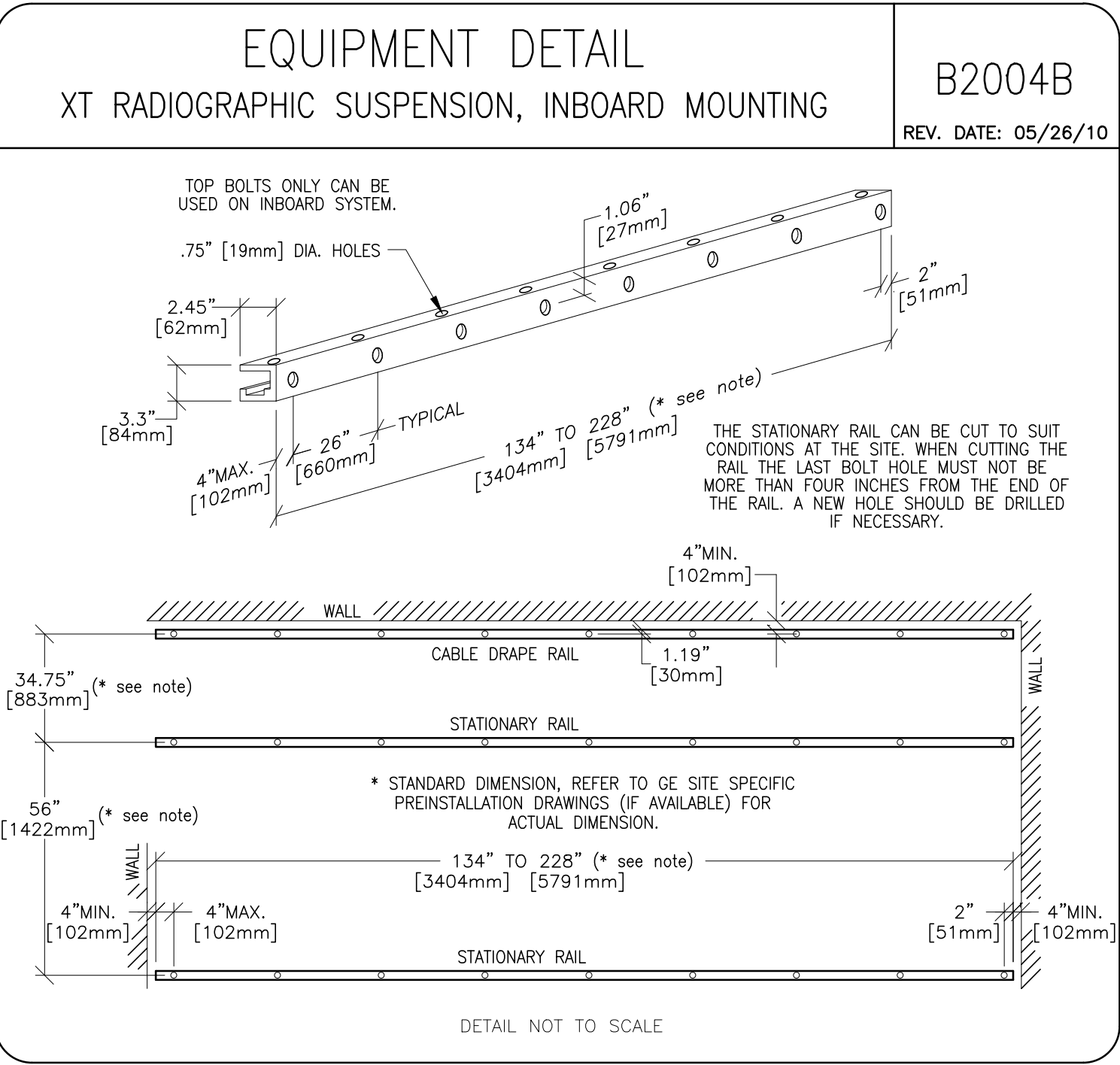
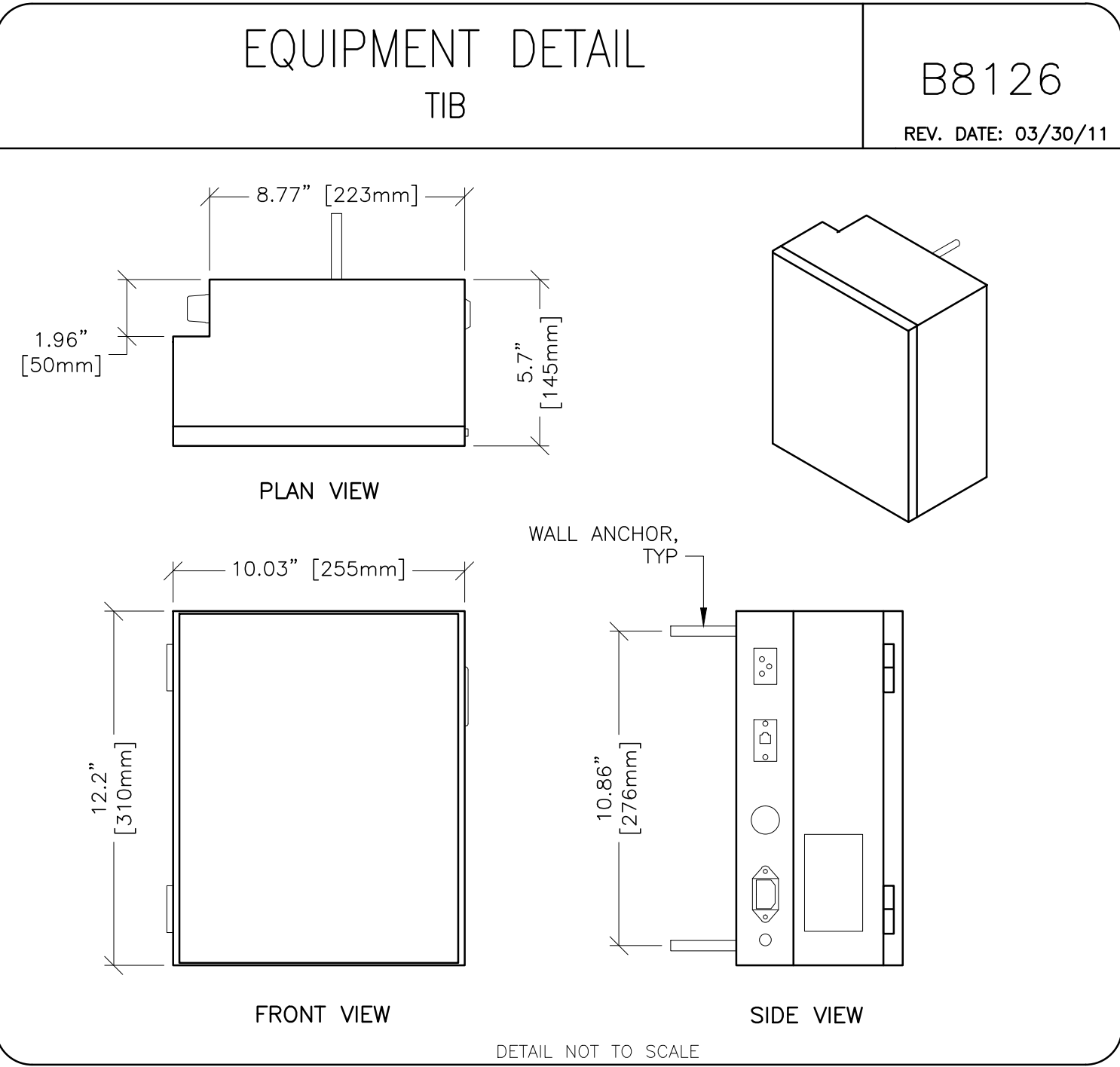
MODALITY TYPE: DISCOVERY XR656

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 ACTUAL CONDITIONS. HOWEVER, THE COMPANY CANNOT BE HELD RESPONSIBLE FOR ANY DAMAGES RESULTING THEREFROM.



GE Healthcare

Healthcare Project Implementation - Design Center
Milwaukee, Wisconsin



EQUIPMENT DETAIL

EQUIPMENT SHIPPING DETAIL

B6564E

REV. DATE: 07.Aug.11

SHIPPING DIMENSIONS AND WEIGHTS – DOMESTIC SHIPMENTS				
LENGTH IN [MM]	WIDTH IN [MM]	HEIGHT IN [MM]	lbs [kg]	
SHIPPING DIMENSIONS (APPROX) – OVERHEAD TUBE SUPPORT INCLUDING X-RAY TUBE				
34 [864]	41 [1039]	53.5 [1355]	635 [288]	BOX/CRATE/SKID
SHIPPING DIMENSIONS (APPROX) – SET OF 2 RAILS				
233 [5920]	7 [178]	3 [76]	150 [68]	BOX
SHIPPING DIMENSIONS (APPROX) – 2 METER BRIDGE				
87 [2210]	29 [737]	7 [178]	138 [63]	BOX
SHIPPING DIMENSIONS (APPROX) – 3 METER BRIDGE				
122 [3099]	29 [737]	7 [178]	185 [84]	BOX
SHIPPING DIMENSIONS (APPROX) – 4 METER BRIDGE				
200 [5080]	29 [737]	8 [203]	305 [138]	BOX
SHIPPING DIMENSIONS (APPROX) – 2 METER CABLE ASSEMBLY				
32 [813]	23 [584]	9 [229]	100 [45]	BOX/SKID
SHIPPING DIMENSIONS (APPROX) – 3 METER CABLE ASSEMBLY				
32 [813]	23 [584]	9 [229]	108 [49]	BOX/SKID
SHIPPING DIMENSIONS (APPROX) – 4 METER CABLE ASSEMBLY				
32 [813]	23 [584]	9 [229]	110 [50]	BOX/SKID
SHIPPING DIMENSIONS (APPROX) – SYSTEM CABINET				
35 [890]	30 [760]	65 [1650]	814 [370]	BOX
SHIPPING DIMENSIONS (APPROX) – SYSTEM CABINET HARDWARE				
27.8 [707]	26 [662]	58 [1475]	705 [320]	BOX/SKID

EQUIPMENT DETAIL

EQUIPMENT SHIPPING DETAIL

B6564F

REV. DATE: 07.Aug.11

SHIPPING DIMENSIONS AND WEIGHTS – DOMESTIC SHIPMENTS				
LENGTH IN [MM]	WIDTH IN [MM]	HEIGHT IN [MM]	lbs [kg]	
SHIPPING DIMENSIONS (APPROX) – WALL STAND				
96 [2440]	37 [940]	50 [1270]	1023 [464]	CRATE/SKID
SHIPPING DIMENSIONS (APPROX) – EXTENDED WALL STAND				
96 [2440]	37 [940]	65 [1651]	1087 [493]	CRATE/SKID
SHIPPING DIMENSIONS (APPROX) – DETECTOR ASSEMBLY				
41 [1042]	47 [1194]	29 [737]	194 [88]	CRATE/SKID
SHIPPING DIMENSIONS (APPROX) – TABLE ASSEMBLY				
95 [2400]	44 [1100]	51 [1300]	1327 [602]	BOX/SKID
SHIPPING DIMENSIONS (APPROX) – STRETCHER NON-ELEVATING				
91 [2312]	41 [1042]	37 [940]	360 [164]	BOX/SKID
SHIPPING DIMENSIONS (APPROX) – STRETCHER CARBON FIBER NON-ELEVATING				
90.5 [2300]	30 [770]	9 [230]	154 [70]	CRATE
SHIPPING DIMENSIONS (APPROX) – STRETCHER ELEVATING				
99 [2312]	37 [920]	32 [810]	772 [350]	CRATE/SKID
SHIPPING DIMENSIONS (APPROX) – EXAM ROOM LEAN CART				
84 [2134]	30 [762]	60 [1524]	VARIES	WHEELED CART
SHIPPING DIMENSIONS (APPROX) – CONTROL & OPTIONS LEAN CART				
51.5 [1308]	30 [762]	55 [1397]	VARIES	WHEELED CART
SHIPPING DIMENSIONS (APPROX) – DETECTOR BIN				
21.3 [540]	14.2 [360]	4.7 [120]	33 [15]	BOX

EQUIPMENT DETAIL

XR656 HEAT OUTPUTS BY COMPONENT

B8138

REV. DATE: 07.Aug.11

PRODUCT OR COMPONENT	HEAT OUTPUT			
	STANDBY		IN-USE	
	BTU/h	Kilowatt	BTU/h	Kilowatt
Wall Stand Detector power	56	0.017	56	0.017
Wall Stand / Extended Wall Stand	79	0.023	321	0.094
Table Detector Power	56	0.017	56	0.017
Table	315	0.092	2272	0.666
OTS & Collimator	105	0.031	105	0.031
Tube Rotor	0	0	544	0.160
System Cabinet	2437	0.714	4869	1.427
Z400 PC + Monitor	601	0176	863	0253
TIB	6.75	0.002	68	0.020

