

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

* REQUIRED REFERENCE *

Innova 2121-3131
Preinstallation Manual
5177951-100

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

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

http://www.gehealthcare.com/company/docs/siteplanning.html

GE Healthcare



Cardio-Vascular
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

Items 1 through 8 on the GE Healthcare Site Readiness Checklist are REQUIRED to facilitate equipment delivery to the installation site. Equipment will not be delivered if these requirements are not satisfied.

GE Healthcare Site Readiness Checklist

GEHC Global Order # :
GEHC On-site Representative :
Name of customer reviewed with :
GEHC PMI :
Target Site Prep Completion Date :
The customer is responsible for proper site preparation and site readiness regardless of any GEHC inspections/assessments.

Customer :
MII Supplier :
Lead Installer :
Phone Number :
Helper :

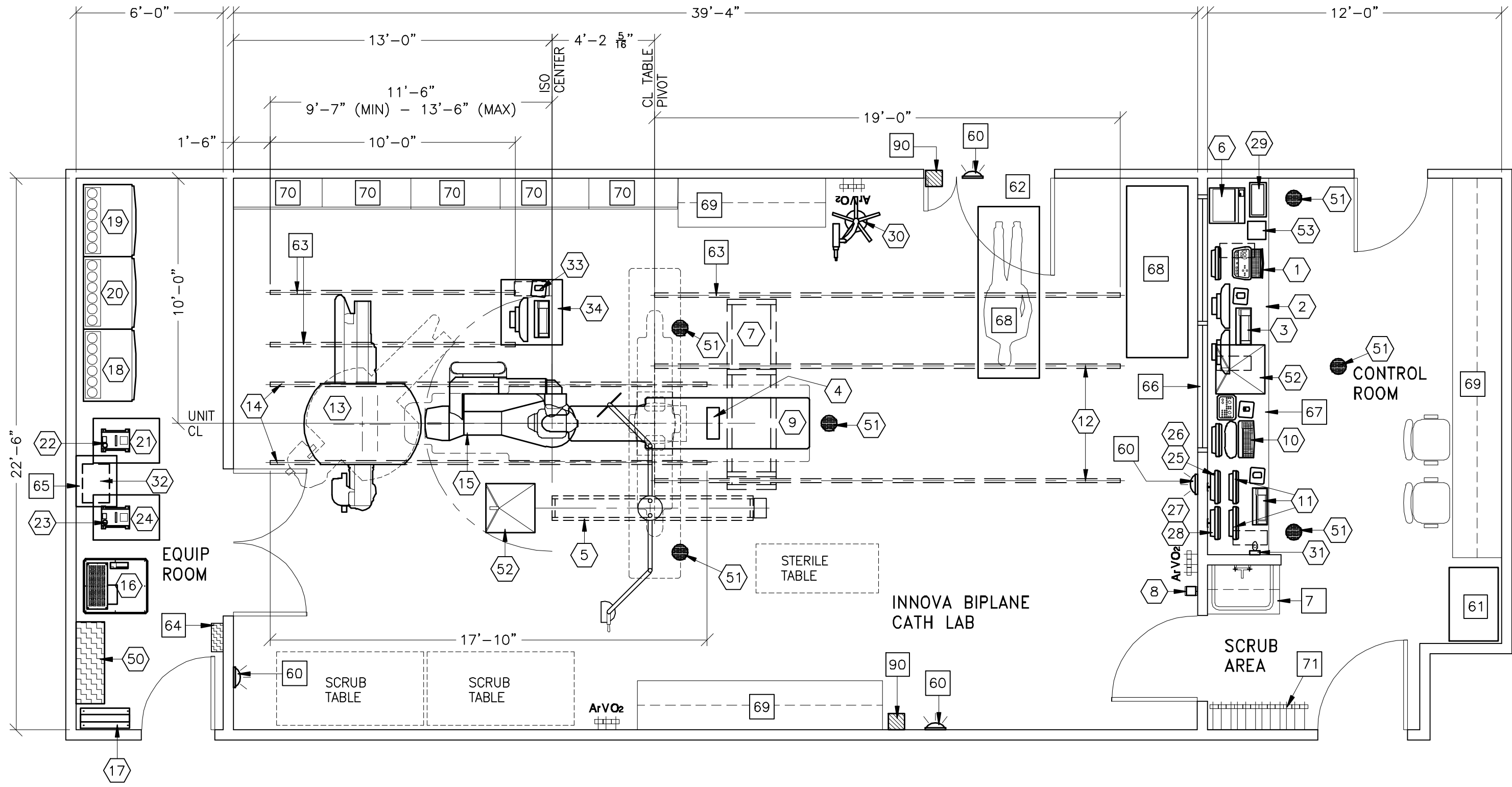
Inspection Date		Storage:		Predict (Pre-ship)		Verify (Delivery)		Validate (Mech install)		Comments If "N", please enter in comments or action plan
Item #	GEHC Minimum Requirements	Is item ready?	Is this item ready?	Will item be ready?	Is item ready?	Is item ready?	Is item ready?	Is item ready?		
1	Equipment installation drawings must match actual room size and must meet clearance requirements. Deviations that meet installation requirements may be red-lined. If red-lining is allowed by local code. Seismic requirements are identified on construction drawings.									
2	Delivery route to installation or storage area meets requirements and has been discussed and scheduled with the customer. Ensure floor protection is discussed, requirements identified, and will be available at time of delivery and installation.									
3	Rooms that will contain equipment, including storage areas, are dust free. Room security to prevent unauthorized access and theft has been discussed with customer. The customer is aware of these security issues, implications and responsibility.									
4	In room HVAC ductwork and units (in room) must be mechanically installed and dust free. Installation rooms appear to meet environmental conditions (see Further Definitions) and observed issues have been communicated to the customer. If being stored, storage area must meet PMI storage criteria.									
5	Ceiling grid is installed, Unistrut is located per the installation drawings, and permanent lighting is installed and operational.									
6	Floor is clean and prepared for final floor covering. Customer has verified floor leveling meets the equipment installation drawings and PMI specs and no visible defects are observed. Gantry and table baseplate are installed prior to delivery (if applicable)									
7	Access to a working phone at the facility for emergency use, including MR magnet delivery.									
8	All walls primed (final coat not needed on Day 1), and counter tops that will support equipment must be installed. No dust-producing cabinetry work in installation areas.									
9	Mechanical supplier has been provided with a set of equipment installation drawings for reference. For California, permitted construction drawings or PMI-specified installation drawings are required.									
10	Conduit/electrical cable ducting/dividers/ access flooring installed, with the exception of surface-mounted floor ducting. Wiring to the main disconnect panel is installed and compliant with equipment installation drawings or pre-installation manual.									

Issued Date: 7/9/07 Rev 11

GE EQUIPMENT LISTING									
EQUIPMENT ON ORDER FROM GE HEALTHCARE, INSTALLED BY GE HEALTHCARE, PER : NEITHER A QUOTE OR GON WAS ISSUED AT THE DATE OF THESE DRAWINGS				EQUIPMENT CROSS REFERENCE CHART					
NOTE: LOCAL CONDITIONS MAY DICTATE THAT ITEMS IDENTIFIED IN THIS CATEGORY BE INSTALLED BY OTHERS.				P = PREAPPROVAL SEISMIC STATUS C = CALCULATIONS/ PENDING APPROVAL S = SPECIFICATIONS ONLY					
ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"		DETAIL NO.	STRC PLAN	ELEC PLAN			
		ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT						
1	1	IVUS VOLCAND SS1 CONSOLE, INCLUDES 6 FLAT PANEL MONITOR AND KEYBOARD (DESK MOUNTED)	68 lbs	1631 btu	B551	-	IVUS	-	
2	1	WORKSTATION CART			---	---	PC	-	
3	1	MAC LAB CONSOLE, INCLUDES MONITORS AND KEYBOARD	181 lbs	2935 btu		---		-	
4	1	TRAM NET RACK	8 lbs		B5047	---	TRAM	S	
5	1	COUNTERBALANCED EYE AND THYROID SHIELD WITH LAMP	143 lbs		B5031C	B5031F	LMP	S	
6	1	IVUS VOLCAND COLOR PRINTER			.			-	
7	1	EIGHT LCD MONITOR SUSPENSION ON 7 FT. 9 IN. XT INBOARD BRIDGE	630 lbs	1638 btu	B2004 B2010A	---	WBM1	C	
8	1	XR BUZZER (LOCATED ABOVE CEILING)	2 lbs		B5150H	-	XR3	-	
9	1	OMEGA IV/V TABLE WITH ROTATING TOP	1750 lbs	600 btu	B5043N	-	LUS	C	
10	1	OPERATORS CONSOLE	22 lbs	546 btu	C7617 C7502 B5050D	-	W3C1	C	
11	1	AW WORKSTATION	81 lbs	1201 btu	M1013AW C7617	---		C	
12	2	LONGITUDINAL STATIONARY RAIL FOR LCD MONITOR SUSPENSION	68 lbs		B20041	-		C	
13	1	LATERAL POSITIONER BRIDGE MOUNT ASSEMBLY MOUNTED FROM CEILING SUPPORTS	1679 lbs	4126 btu	B5150B B5150C	-	LP4	C	
14	2	LONGITUDINAL STATIONARY RAIL FOR LATERAL GANTRY INNOVA POSITIONER	68 lbs		B2004A	-		C	
15	1	INNOVA POSITIONER (REFERENCE TABLE BASE-PLATE DETAIL FOR FLOOR MOUNTING INFORMATION)	1653 lbs	2416 btu	B5150D B5150E B5150F B5150G	---	LC1	C	
16	1	UPS CABINET	1170 lbs	4050 btu	E4502SE	-	UPS	-	
17	1	3 KVA UPS CABINET	81 lbs	546 btu		-	UPS1	-	
18	1	LC/LP CABINET (C2)	630 lbs	4570 btu		-	C2	-	
19	1	LATERAL CABINET (C3)	705 lbs	2945 btu		-	C3	-	
20	1	AP FRONTAL CABINET (C1)	890 lbs	4413 btu	B0550B	-	C1	-	
21	1	LATERAL WATER CHILLER	447 lbs	16320 btu	M0917B	-	CHLR	-	
22	1	LATERAL DETECTOR CHILLER	33 lbs	709 btu	B5150A	-	DC	-	
23	1	AP DETECTOR CHILLER	33 lbs	709 btu	B5150A	-	DC	-	
24	1	AP TUBE CHILLER	447 lbs	18723 btu	M0917B	-	CHLR	-	
25	1	18 IN. MONITOR ON WALL SUPPORT (FRONTAL - REFERENCE)	26 lbs	204 btu	C7617B	S18	WBM2	C	
26	1	18 IN. MONITOR ON WALL SUPPORT (LATERAL - REFERENCE)	26 lbs	204 btu	C7617B	S18	WBM3	C	
27	1	18 IN. MONITOR ON WALL SUPPORT (FRONTAL - LIVE)	26 lbs	204 btu	C7617B	S18	WBM4	C	
28	1	18 IN. MONITOR ON WALL SUPPORT (LATERAL - LIVE)	26 lbs	204 btu	C7617B	S18	WBM5	C	
29	1	REMOTE CONTROL FOR INJECTOR	4 lbs		B502B	-	IEC	S	
30	1	INJECTOR HEAD ON PEDESTAL	44 lbs		B5031H	-	IH	-	
31	1	BOLUS CHASE HANDSWITCH	2 lbs			---	WBBC	-	
32	1	INJECTOR ELECTRONICS	37 lbs	320 btu	B502B	---	IE	S	
33	1	NURSE WORKSTATION							
34	1	NURSE WORKSTATION MOBILE CART							
THE FOLLOWING ITEMS, WHICH HAVE BEEN ORDERED FROM GE HEALTHCARE, ARE TO BE INSTALLED BY THE CUSTOMER OR HIS CONTRACTOR.									
50	1	INNOVA MAIN DISCONNECT, REFERENCE JUNCTION POINT "A" ON SHEET "E1" FOR DETAILED DESCRIPTION.	899 lbs	2215 btu	E4502BE	-	PDB	-	
61	6	VITALING SPEAKER			.			-	
62	2	VITALING MICROPHONE			.			-	
63	1	VITALING CONSOLE			B0566	.		-	

SCALE: 1/4" = 1'-0" EQUIPMENT LAYOUT REQUIRED CEILING HEIGHT = 9'-4 +/ - 0.2"

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.



ANCILLARY ITEMS	
CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS	
ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL: 800-200-9760 GE CAT. NO. WX1ABVV-OF-XIU
61	CUSTOMER SUPPLIED STORAGE CABINET
62	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 44 IN. W X 89 IN. H (1118mm X 2108mm), CONTINGENT ON A 96 IN. (2438mm) CORRIDOR WIDTH
63	CABLE DRAPE RAIL.
64	150-AMP DISCONNECT BREAKER (FOR LOCK-OUT/TAG-OUT CAPABILITY)
65	SHELF - CUSTOMER TO PROVIDE ADEQUATE WALL SUPPORT WINDOW.
66	CONTROL WALL TO CEILING WITH LEAD GLASS VIEWING WINDOW.
67	COUNTER TOP FOR EQUIPMENT- SHELVEING MAY BE REQUIRED PROVIDE GROMMETED OPENING AS REQUIRED TO ROUTE INTERCONNECT CABLES TO RACEWAY BELOW COUNTERTOP.
68	PATIENT STRETCHER
69	COUNTERTOP WITH BASE AND WALL CABINETS
70	CATH. CABINETS
71	LEAD APRON RACK
72	SCRUB SINK
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 "XRLC" ON SHEET "E1" FOR DETAILED DESCRIPTION - E4500AK FOR WARNING LIGHT CONTROL ONLY.

GENERAL SPECIFICATIONS	
o THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR LOCAL GEHC INSTALLATION 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 INSTALLATION. 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	

SITE ENVIRONMENT SPECIFICATIONS	
o EQUIPMENT ROOM AMBIENT OPERATING TEMPERATURE: 50 TO 95 DEGREES (F), MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 15 DEGREES (F)/HOUR, WITH 30% - 75% HUMIDITY.	
o EXAM ROOM AMBIENT OPERATING TEMPERATURE: 50 TO 95 DEGREES (F), MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 15 DEGREES (F)/HOUR, HUMIDITY: 30% - 70%	
o CONTROL ROOM AMBIENT OPERATING TEMPERATURE: 50 TO 75 DEGREES (F), MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 15 DEGREES (F)/HOUR, HUMIDITY: 30% - 75%	
o ALTITUDE: NOT TO EXCEED 8,000 FT. ABOVE SEA LEVEL.	
o DO NOT RESTRICT THE AIR INTAKE AT THE LOWER FRONT OR AIR EXHAUST AT THE TOP OF THE ELECTRONICS CABINETS.	

MAGNETIC INTERFERENCE SPECIFICATIONS	
IMAGE INTENSIFIERS 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 SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED

GE Healthcare Technologies

Installation Services Design Center

Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT LAYOUT

MODALITY TYPE: INNOVA 2121/ 3131 BIPLANE

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT. IT IS NOT TO BE USED FOR CONSTRUCTION. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. IT IS NOT TO BE USED FOR CONSTRUCTION. GE HEALTHCARE ACCEPTS NO LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

CATH LAB

TYPICAL FINAL LAYOUT

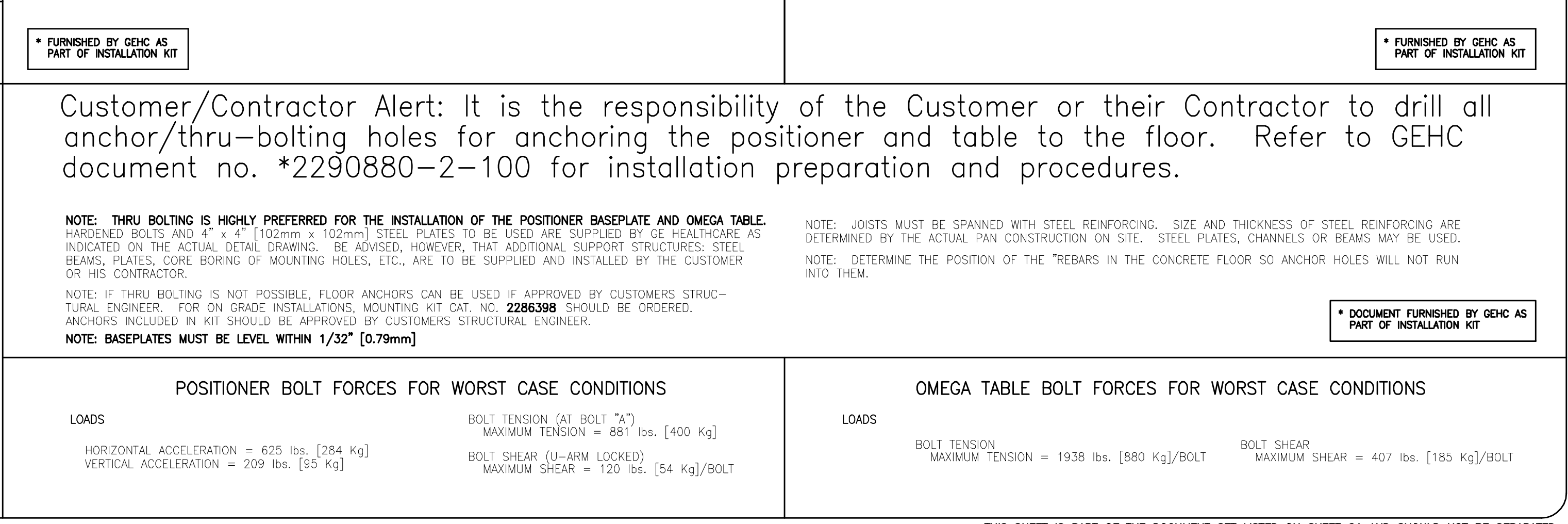
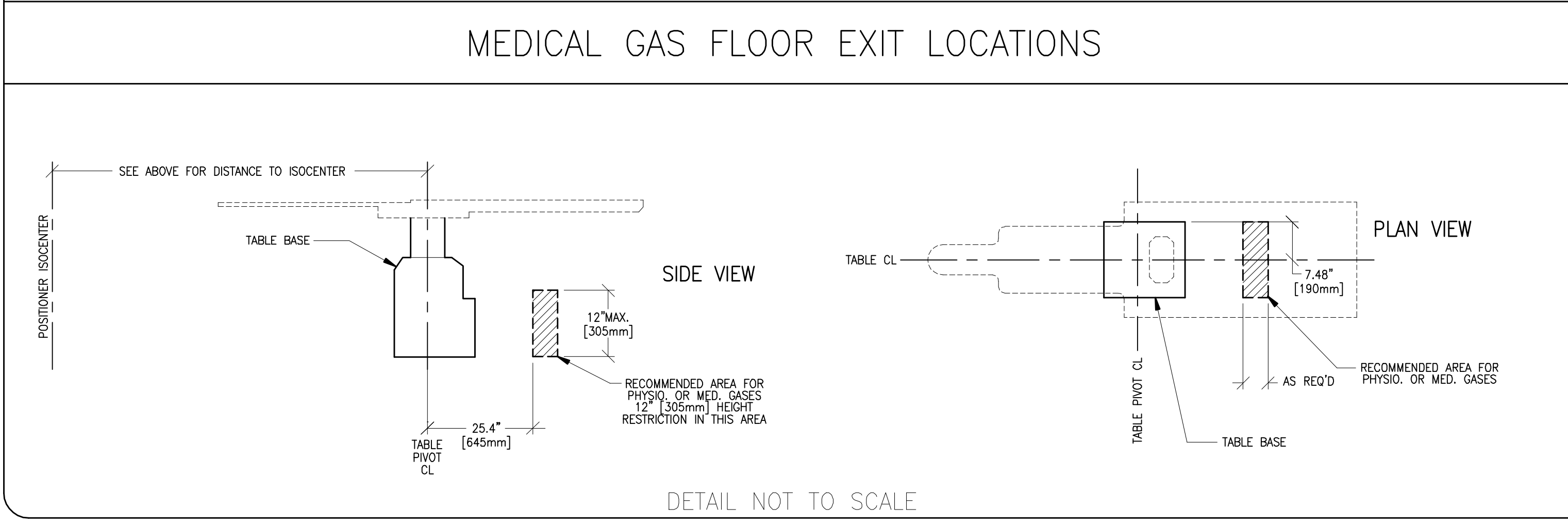
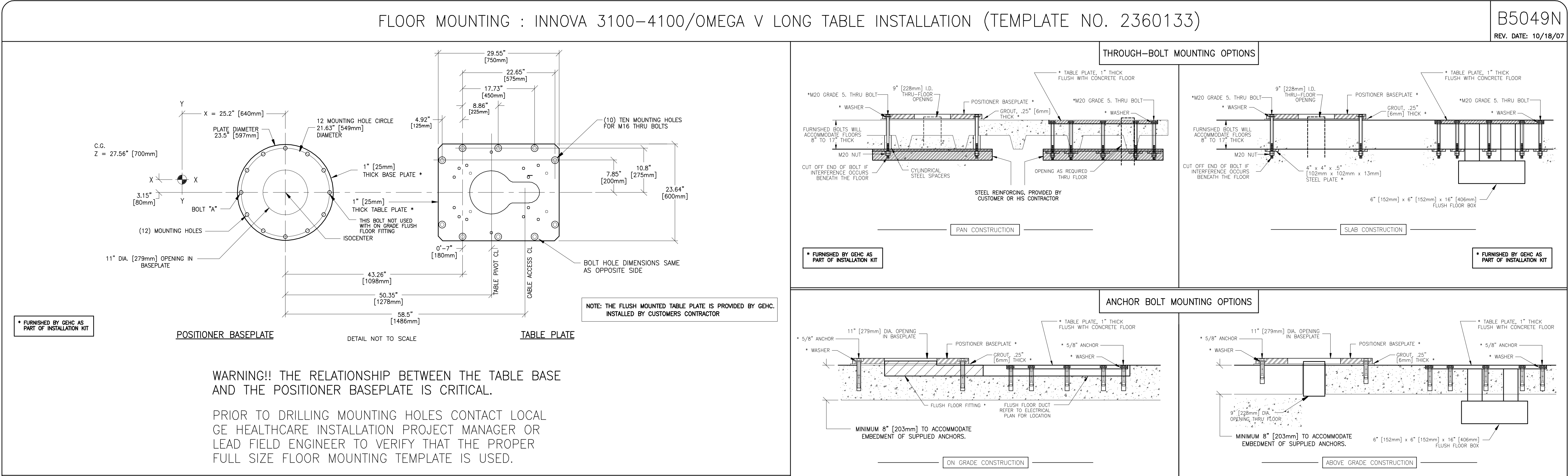
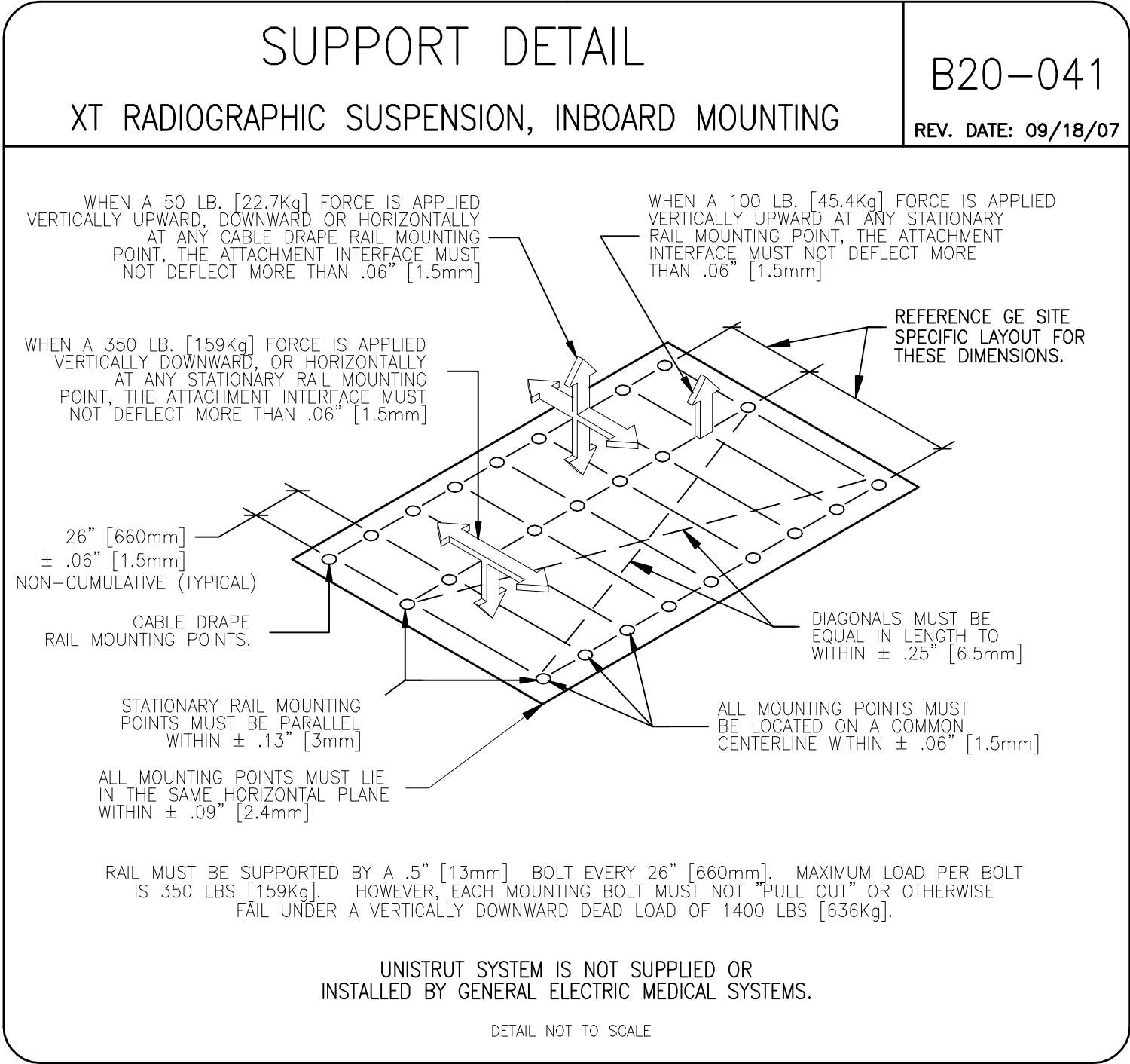
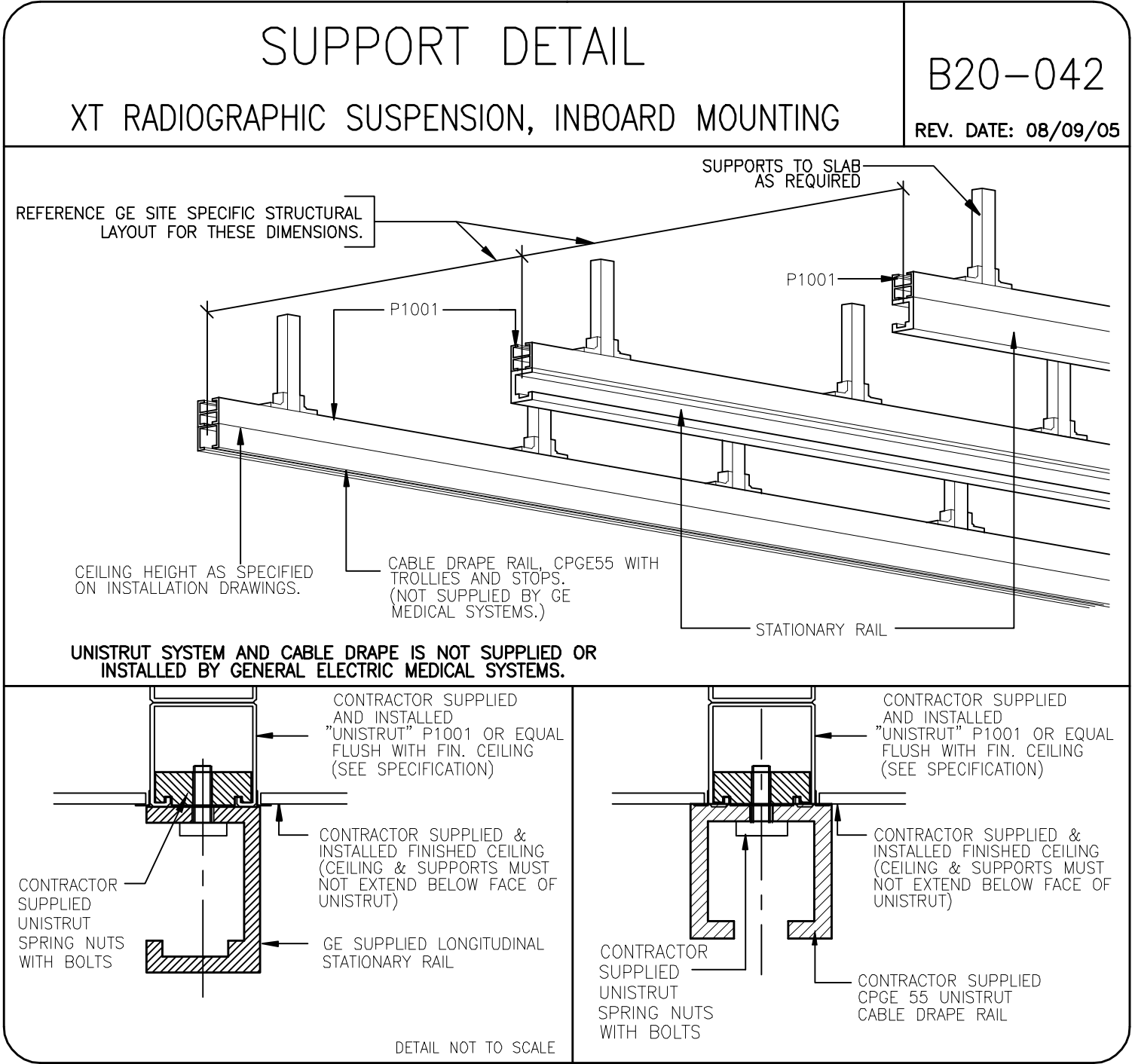
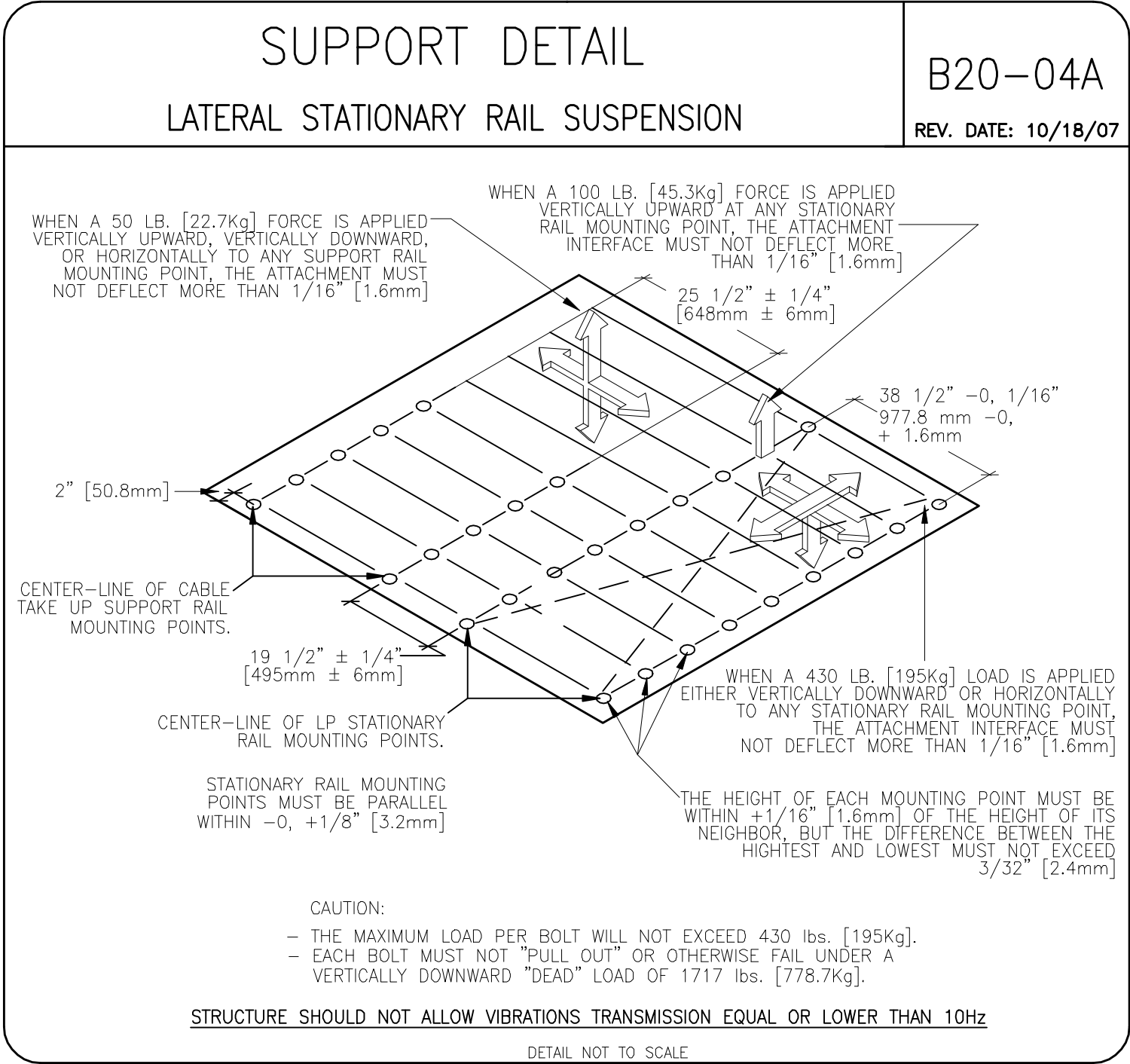
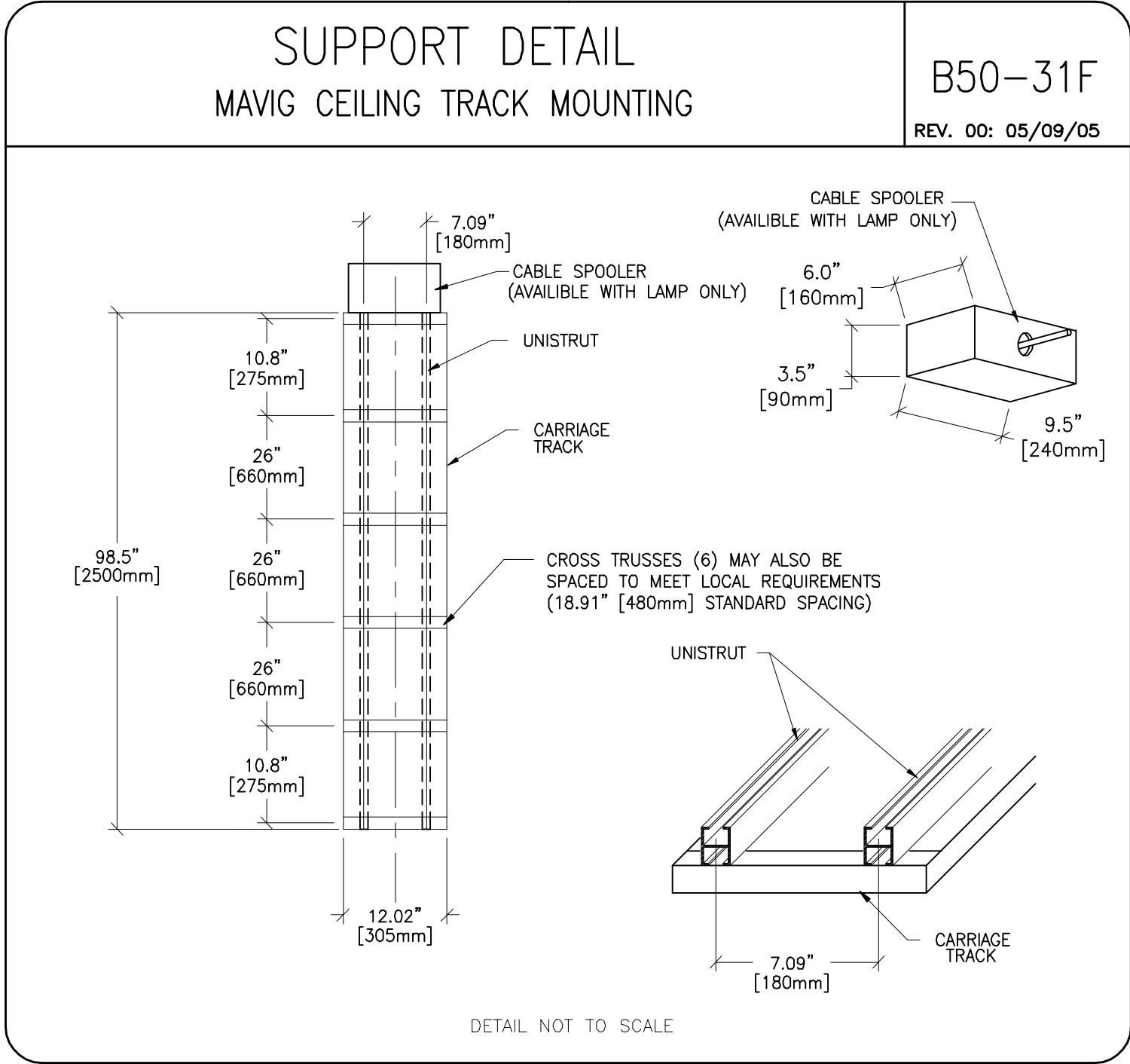
PROJECT TITLE:

PROJECT	REVISION
5-84	00
DATE:	11-18-08
DRAWN BY:	LLM
CHECKED BY:	TST

REVISION HISTORY:	

SHEET

A1

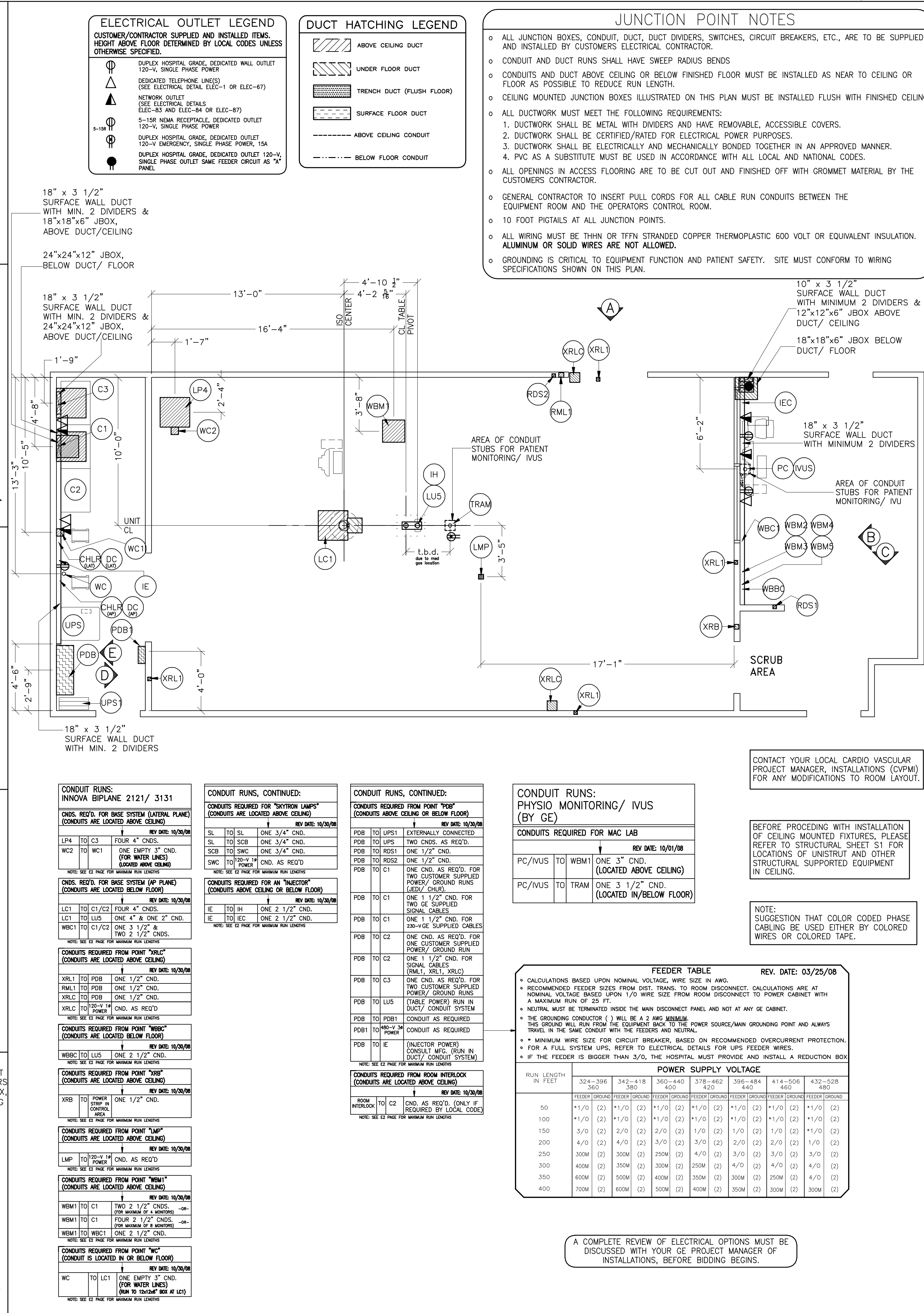
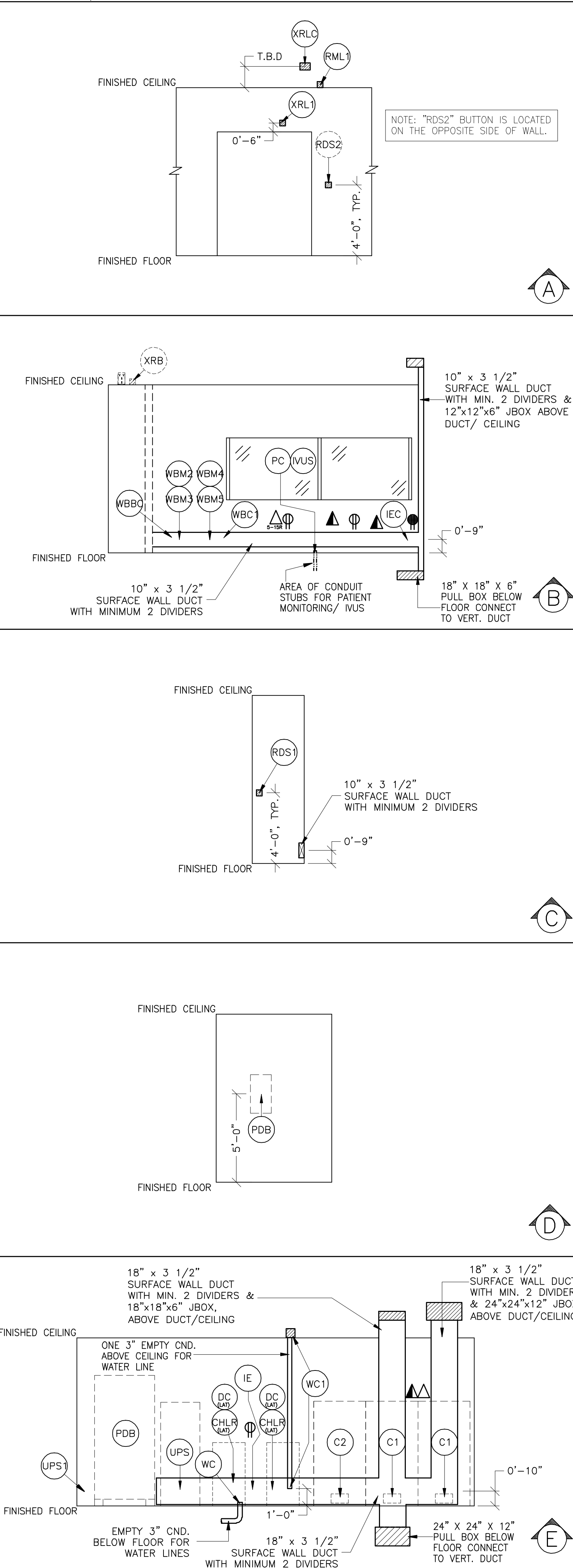


SCALE: 1/4" = 1'-0"

ELECTRICAL PLAN

REQUIRED CEILING HEIGHT = 9'-4" +/- 0.2"

JUNCTION POINT DESCRIPTIONS



JUNCTION POINT DESCRIPTIONS			
POINT	DESCRIPTION	QTY.	THE FOLLOWING MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER'S ELECTRICAL CONTRACTOR
C1	AP FRONTAL CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER
C2	LC/LP CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER
C3	LATERAL CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER
CHLR	AP TUBE CHILLER	2	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
CHLR	LATERAL TUBE CHILLER	2	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
DC	LATERAL DETECTOR	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
DC	AP DETECTOR CHILLER	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
IE	INJECTOR ELECTRONICS	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
IEC	INJECTOR CONTROL	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
IH	INJECTOR HEAD	1	EXTERNALLY CONNECTED AT TABLE BASE
IVUS	IVUS WORKSTATION	1	SHARED CONNECTION WITH 'PC'
LC1	INNOVA LC	1	24 X 24 X 12 IN. BOX SUITABLE LENGTH OF 6 IN. DIA. THREADED CONDUIT OR PIPE 6 IN. DIA. LOCKNUT 1 IN. DIA. LOCKNUT 12 X 12 X 6 IN. BOX 3 X 3 IN. DIA. BUSHING
LMP	SURGICAL LAMP	1	4 X 4 X 4 IN. BOX 1/2 IN. DIA. CHASE NIPPLE
LP4	LATERAL POSITIONER	1	COVERPLATE 24 X 24 X 12 IN. FLUSH CEILING BOX DIVIDING PARTITION
LUS	OMEGA TABLE	1	COVERPLATE 17 1/2 X 17 1/2 IN. GROUND BAR WITH 17 1/2 IN. MIN. MACHINE SCREWS, 6 X 6 X 16 IN. BOX
PC	WORKSTATION	1	COVERPLATE 18 X 18 X 6 IN. BOX 3 1/2 IN. DIA. CHASE NIPPLE 12 IN. DIA. GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
PDB	MAIN DISCONNECT	1	150-AMP PANEL INCLUDED IN ORDER
PDB1	SYSTEM DISCONNECT	1	150-AMP DISCONNECT BREAKER (CUSTOMER SUPPLIED)
RDS1	EMERGENCY OFF	1	PROVIDE A SINGLE GANG, 2 1/8 IN. DEEP, FLUSH MTD. WALL BOX.
RDS2	EMERGENCY OFF	1	PROVIDE A SINGLE GANG, 2 1/8 IN. DEEP, FLUSH MTD. WALL BOX.
RML1	ROOM LIGHTS AVAILABLE FROM GE, CALL 800-558-5102	1	COVERPLATE 18 X 18 X 6 IN. BOX 3 1/2 IN. DIA. CHASE NIPPLE 12 IN. DIA. GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
TRAM	REMOTE ACQUISITION UNIT	1	COVERPLATE 18 X 18 X 6 IN. BOX 3 1/2 IN. DIA. CHASE NIPPLE 12 IN. DIA. GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
UPS	UPS CABINET	1	6 FT. OF 2 IN. FLEX CONDUIT AND CONNECTORS
UPS1	3 KVA UPS	1	EXTERNALLY CONNECTED TO PDB
WBBC	BOLUS WALLBOX	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
WBC1	OPERATORS CONSOLE	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
WBM1	TV MONITOR	1	COVERPLATE 18 X 18 X 6 IN. FLUSH CEILING BOX 2 1/2 IN. DIA. CHASE NIPPLE
WBM2	TV MONITOR	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
WBM3	TV MONITOR	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
WBM4	TV MONITOR	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
WBM5	TV MONITOR	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER
WC	WATER CHILLER HOSE OUTLET	1	3 IN. CONDUIT STUBBED 2 IN. ABOVE FLOOR
WC1	WATER CHILLER HOSE OUTLET	1	6 X 6 X 6 IN. FLUSH CEILING BOX 2 1/2 IN. DIA. CHASE NIPPLE
WC2	WATER CHILLER HOSE OUTLET	1	COVERPLATE 18 X 18 X 6 IN. BOX 2 1/2 IN. DIA. CHASE NIPPLE
XRB	XR BUZZER	1	COVERPLATE 18 X 18 X 6 IN. BOX 2 1/2 IN. DIA. CHASE NIPPLE
XRL1	WARNING LIGHT	4	COVERPLATE 18 X 18 X 6 IN. BOX 2 1/2 IN. DIA. CHASE NIPPLE
XRLC	WARNING LIGHT CONTROLLER AVAILABLE FROM GE/CH, CALL 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	2	4500AK WARNING LIGHT 8. ROOM LIGHT CONTROL OR EQUIVALENT MAX 24V CONTROLLER.

CONTRACTOR SUPPLIED AND INSTALLED WIRING	
ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS.	
WIRE RUN, FROM - TO	QUANTITY, WIRE SIZE/COLOR
3 PHASE > PDB1	REFER TO FEEDER TABLE
PDB1 > PDB	REFER TO FEEDER TABLE
PDB > C1 <JEDI>	3-NO. 1 BLACK, 1-NO. 1 GREEN
PDB > C2	3-NO. 8 BLACK, 1-NO. 8 GREEN
PDB > C3 <JEDI>	3-NO. 1 BLACK, 1-NO. 1 GREEN
PDB > CHLR<AP>	3-NO. 10 BLACK, 1-NO. 10 GREEN
PDB > CHLR<LAT>	3-NO. 10 BLACK, 1-NO. 10 GREEN
PDB > RDS1	2-NO. 14 BLACK, 2-NO. 14 WHITE, 1-NO. 14 GREEN
PDB > RDS2	2-NO. 14 BLACK, 2-NO. 14 WHITE, 1-NO. 14 GREEN
PDB > XRLC	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
PDB > XRL1	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
PDB > RML1	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
PDB > UPS	6-NO. 6 BLACK, 2-NO. 6 WHITE
PDB > UPS	2-NO. 4 GREEN
XRLC > 1 PHASE	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
LMP > 120V	2-NO. 14 BLACK, 1 NO. 14 GREEN

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

GE Healthcare Technologies

Installation Services Design Center

Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL LAYOUT

MODALITY TYPE: INNOVA 2121/ 3131 BIPLANE

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT. IT IS NOT TO BE USED FOR CONSTRUCTION. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

CATH LAB

LAB

TYPICAL FINAL LAYOUT

PROJECT TITLE:

PROJECT: 5-84

REVISION: 00

DATE: 11-18-08

DRAWN BY: LLM

CHECKED BY: TST

REVISION HISTORY:

SHEET

E1

INTERCONNECT DIAGRAM

UPDATED: 11/08/07

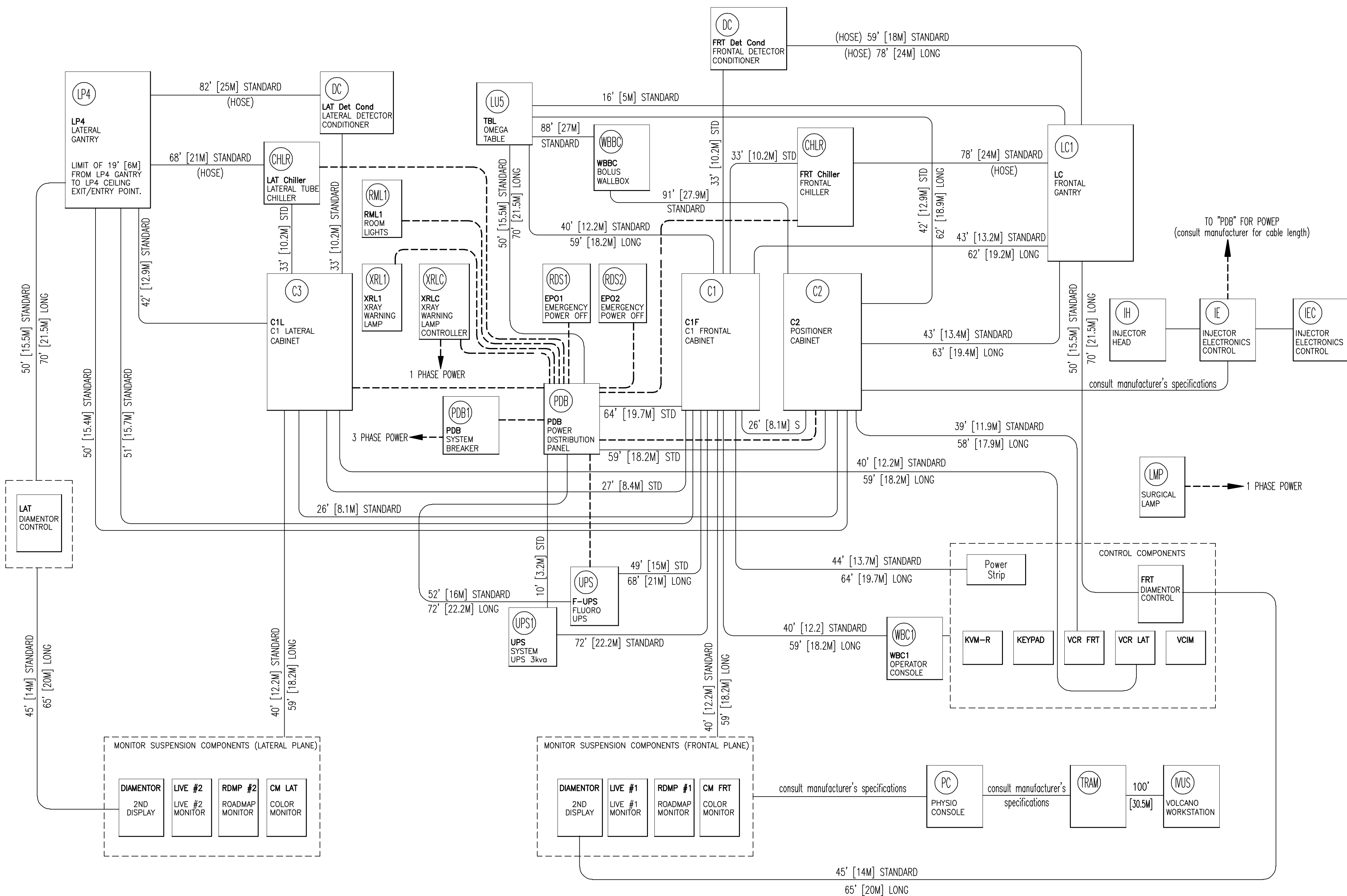


DIAGRAM KEY

- CUSTOMER/CONTRACTOR SUPPLIED WIRING. ROUTE IN
ADEQUATE CONDUIT OR RACEWAY.
- _____ GE FURNISHED CABLE RUNS. ROUTE IN EMPTY
CONDUIT OR RACEWAY.

POWER SPECIFICATIONS

INNOVA BIPLANE SYSTEMS

REV. DATE: 10/22/07

VOLTAGE PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS.
RANGE OF LINE VOLTAGES :
NOMINAL LINE VOLTAGE OF 360 TO 480, 3 PHASE, 50 OR 60 Hz

REQUIRED POWER SUPPLY: WYE DISTRIBUTION

MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF THE RANGES IN TABLE A.

TABLE A
ALLOWABLE
INPUT
VOLTAGES/
CURRENT
DEMAND

NOMINAL VOLTAGE	NORMAL RANGE ±10 PERCENT	CURRENT (AMPS)	
		MAX. MOMENTARY	CONTINUOUS
360	324-396	289	32
380	342-418	274	31
400	360-440	260	29
420	378-462	248	28
440	396-484	236	26
460	414-506	226	25
480	432-528	217	24

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 CONTINUOUS POWER DEMAND = 20KVA. (MAX DEMAND = 171 KVA)

TABLE B
MAXIMUM
MOMENTARY
POWER
DEMAND.

DEMAND	INNOVA JEDI
kVa * POWER FACTOR AT	180 0.9
mA	1250
kVp	80

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

FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 225 KVA.

DISTRIBUTION TRANSFORMER

ELECTRICAL NOTES

NOTE 1: ALL WIRES SPECIFIED SHALL BE COPPER STRANDED, FLEXIBLE, THERMO-PLASTIC, COLOR CODED, CUT 10 FEET 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.

SHEET TITLE: ELECTRICAL SPECIFICATIONS

MODALITY TYPE: INNOVA 2121/ 3131 BIPLANE

CATH
LAB
TYPICAL FINAL

PROJECT TITLE:

PROJECT	REVISION
5-84	00

DATE: 11-18-08
DRAWN BY: LLM
CHECKED BY: TST

REVISION HISTORY

SHEET

E2

REV. DATE: 04/24/02

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



DETAIL NOT TO SCALE

REV. DATE: 09/30/94



REV. DATE: 10/06/98



REV. DATE: 03/06/04

DETAIL NOT TO SCALE

REV. DATE: 03/19/04

REV. DATE: 03/19/04REV. DATE: 09/30/94

REV. DATE: 07/26/08

CONTROL PANEL CAN BE LOCATED ABOVE THE CEILING NEAR THE WARNING LIGHT

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

REV. DATE: 08/22/05



REV. DATE: 01/04/96



REV. DATE: 05/10/04



DETAIL NOT TO SCALE

REV. DATE: 06/16/08



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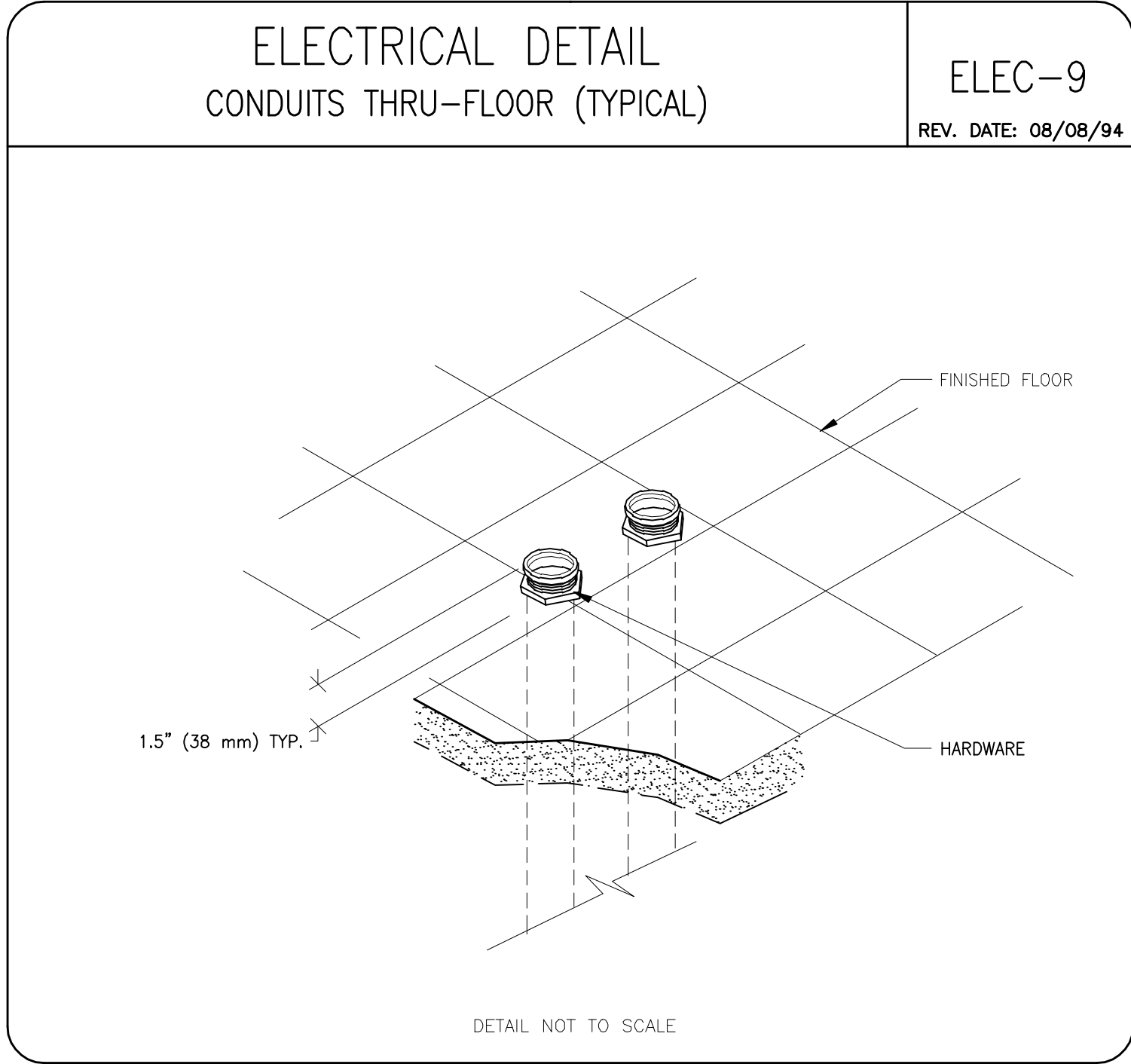
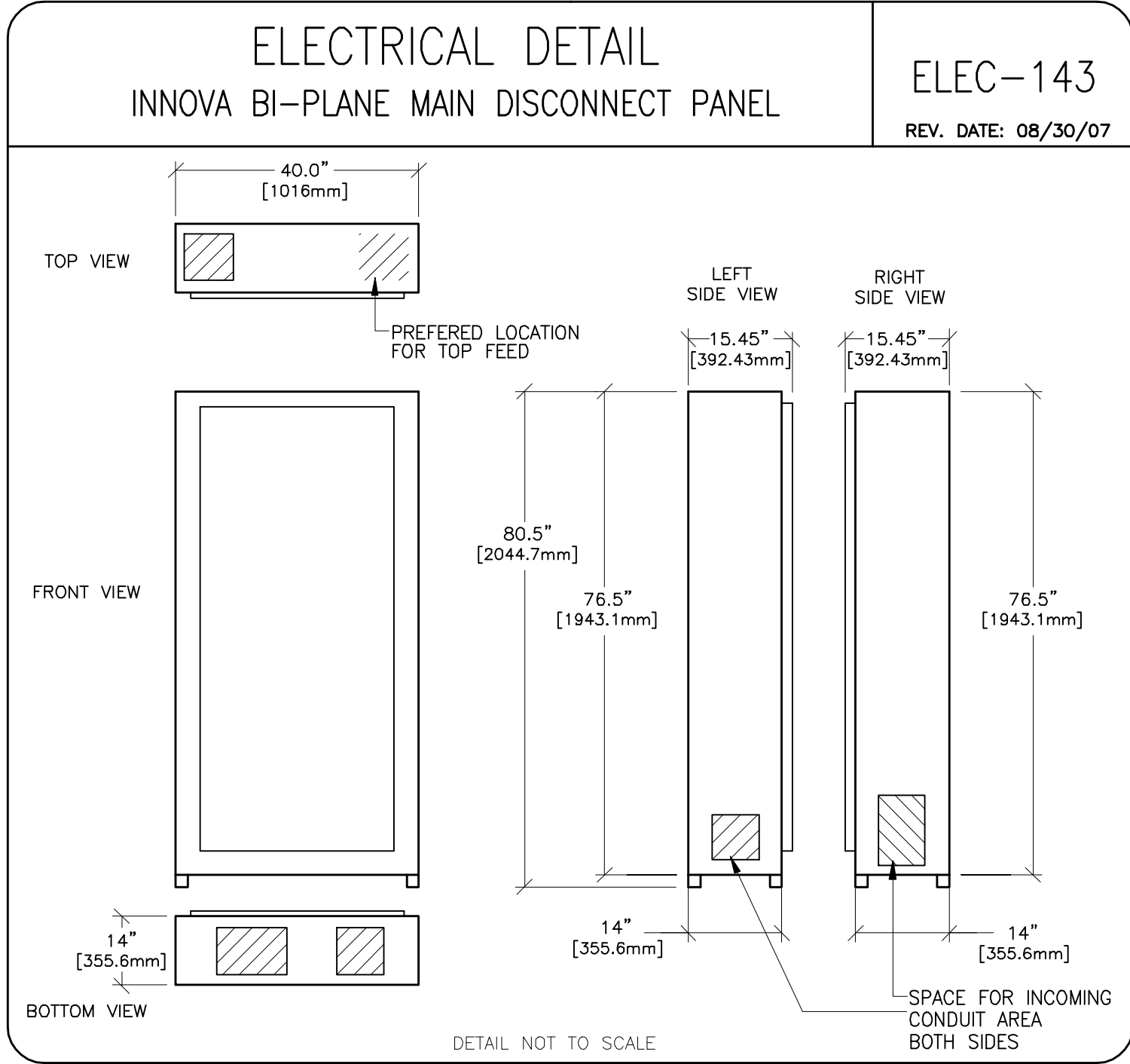
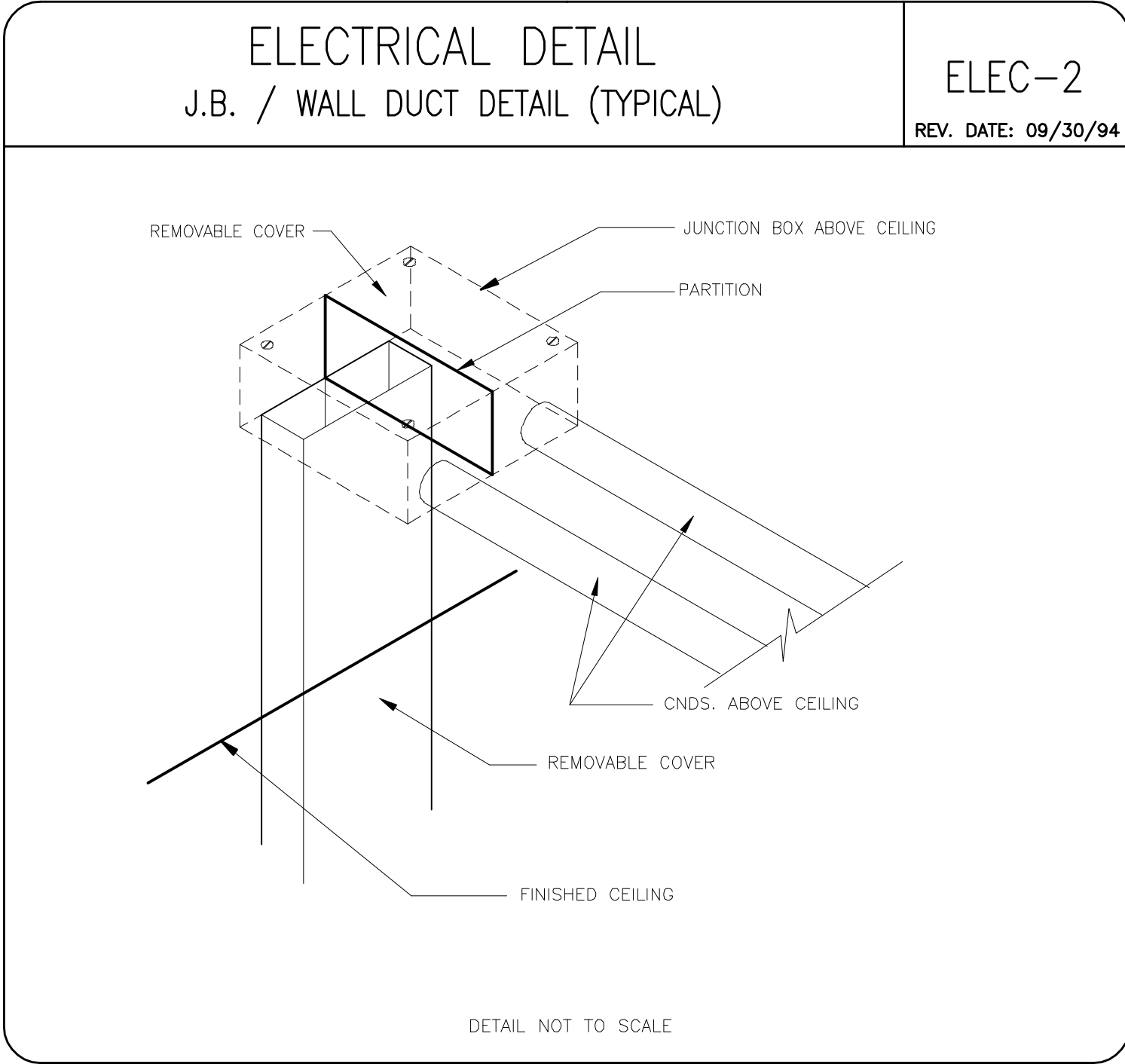
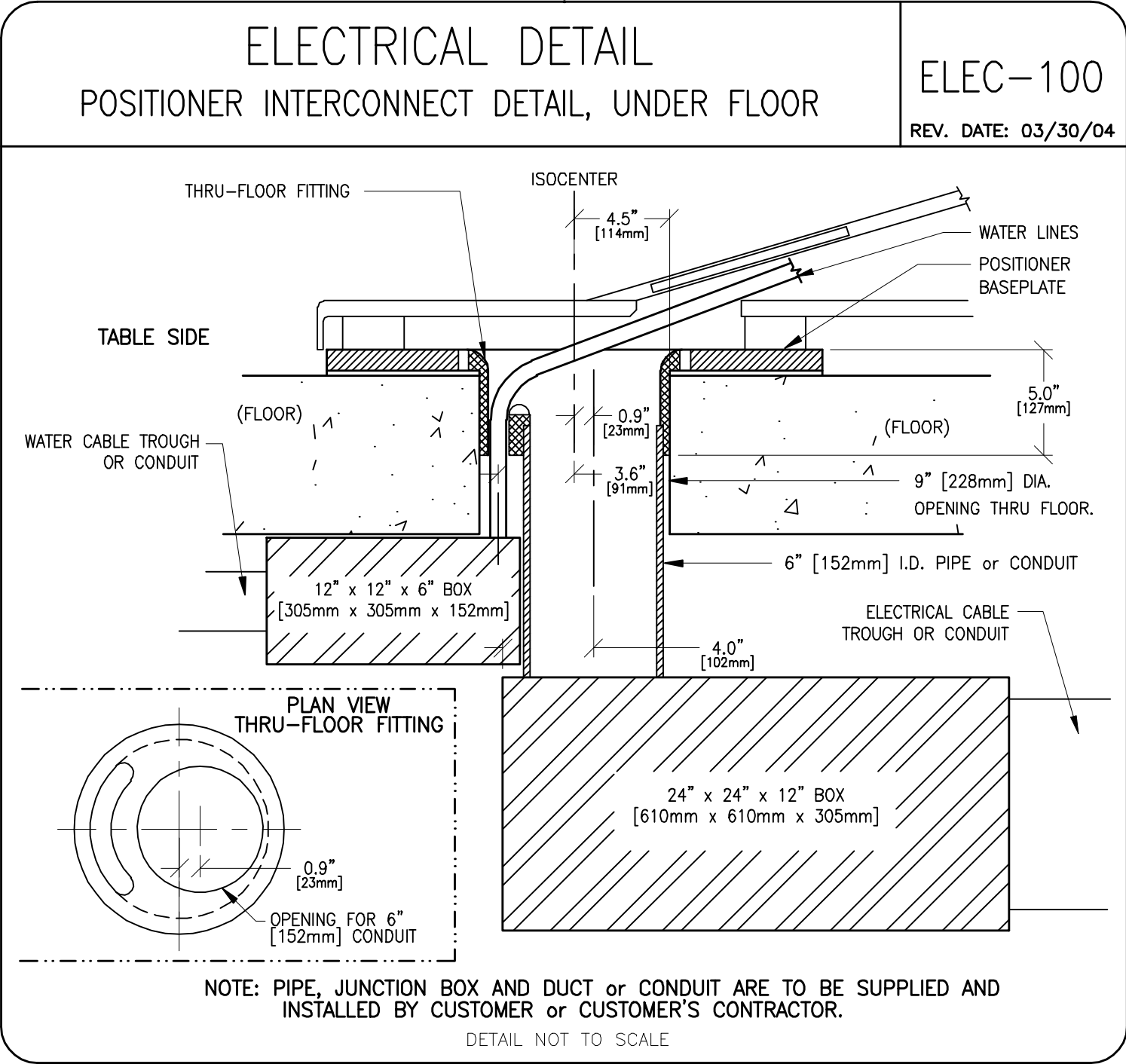
PROJECT	REVISION
5-84	00


DATE: 11-18-08
DRAWN BY: LLM
CHECKED BY: TSI

REVISION HISTORY:

SHEET

E3





GE Healthcare Technologies

Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL DETAILS

MODALITY TYPE: INNOVA 2121/ 3131 BIPLANE

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT. GE HEALTHCARE EQUIPMENT IS NOT TO BE INSTALLED OR USED WITHOUT THE APPROVAL OF GE HEALTHCARE. 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 CONSTRUCTION PURPOSES. POWER AND CABLE ROUTING ARE NOT TO BE RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

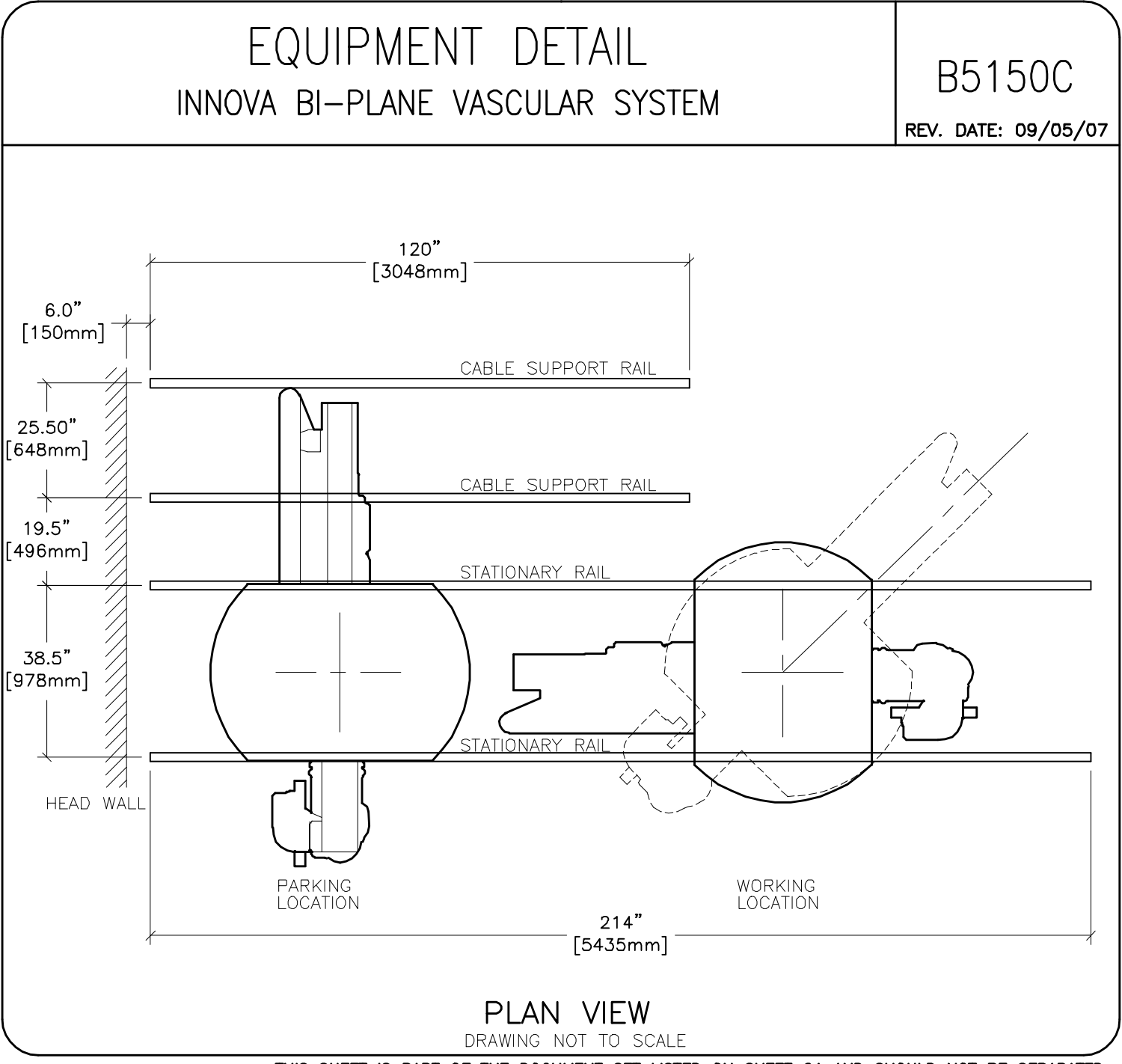
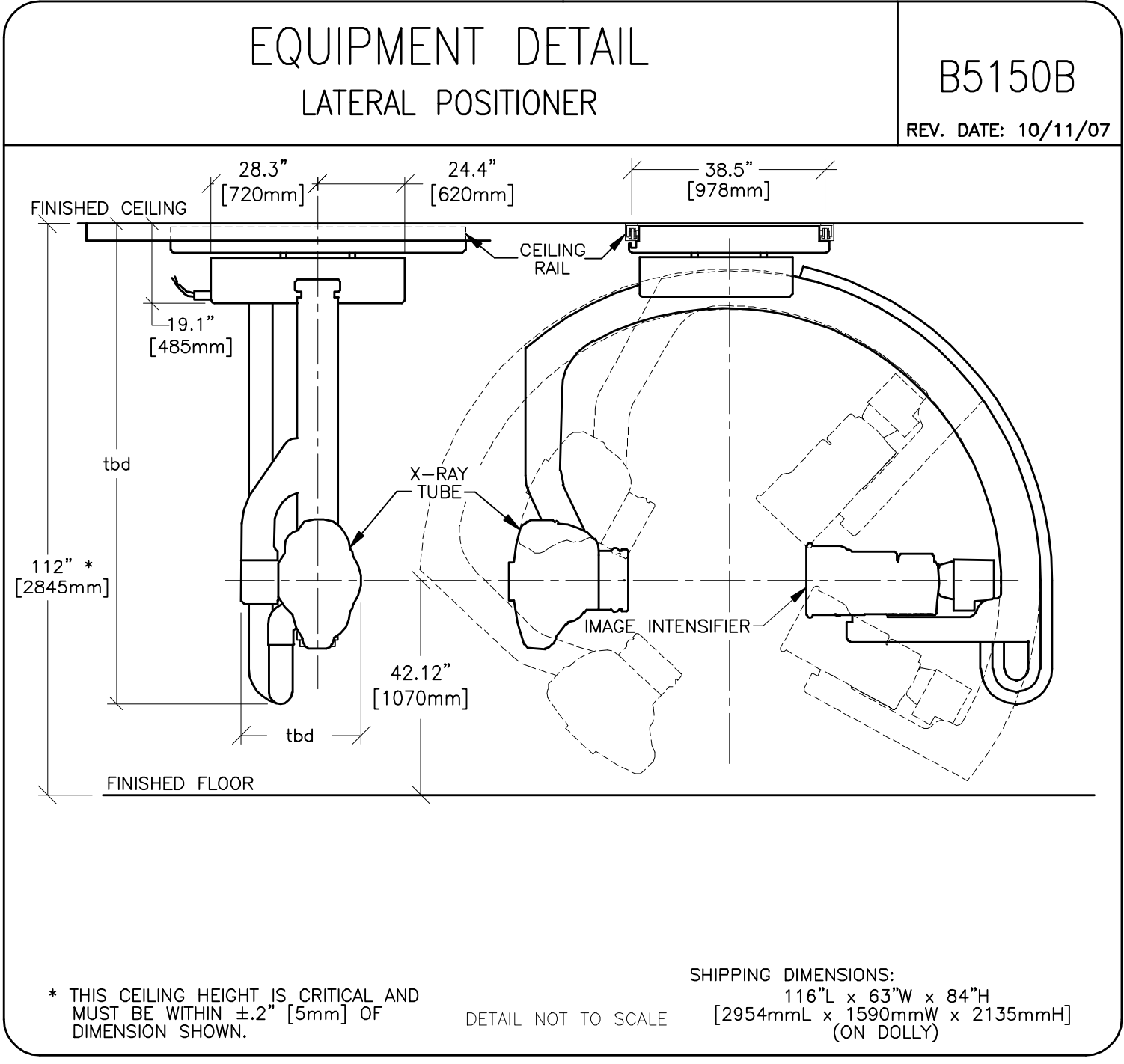
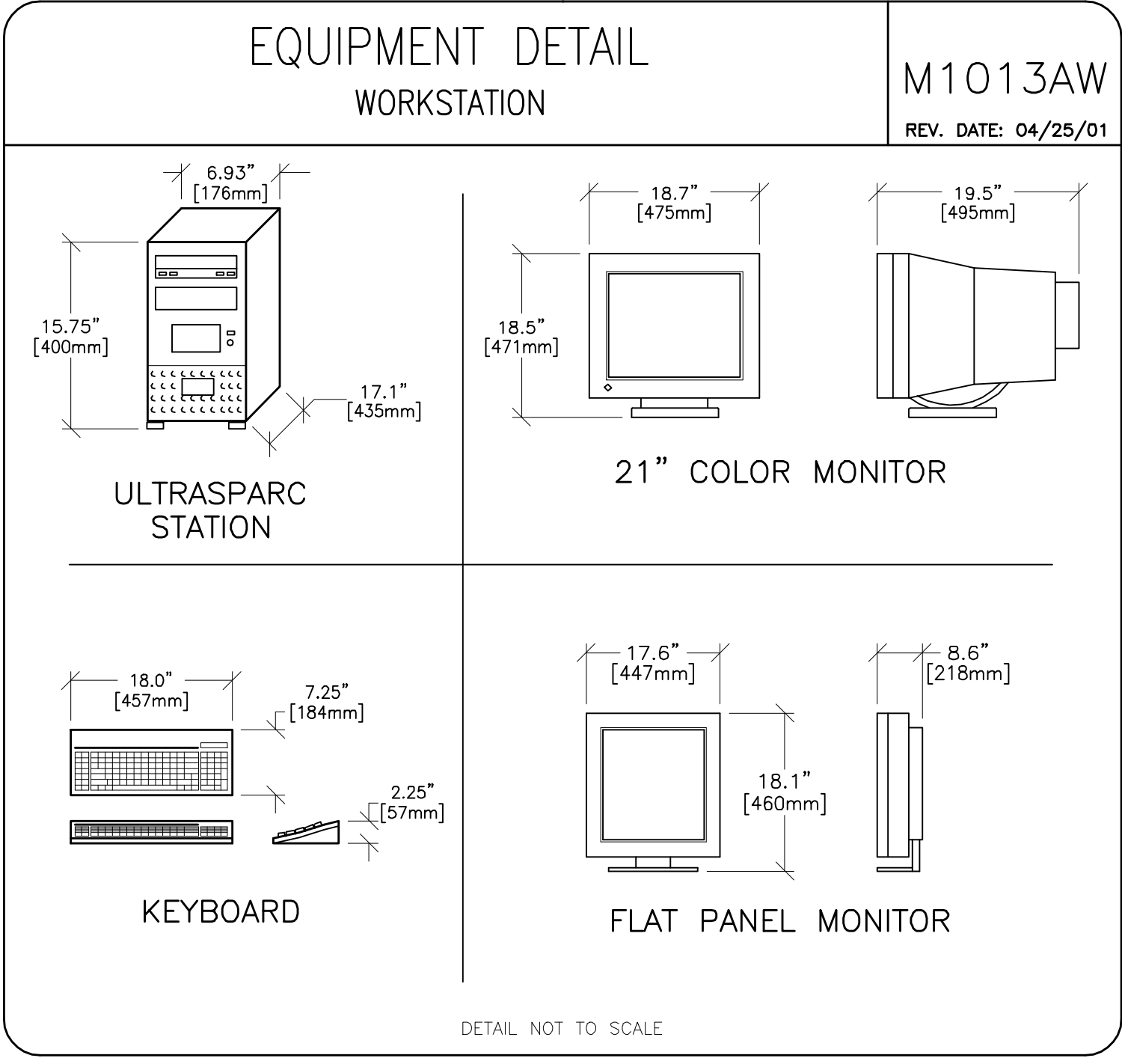
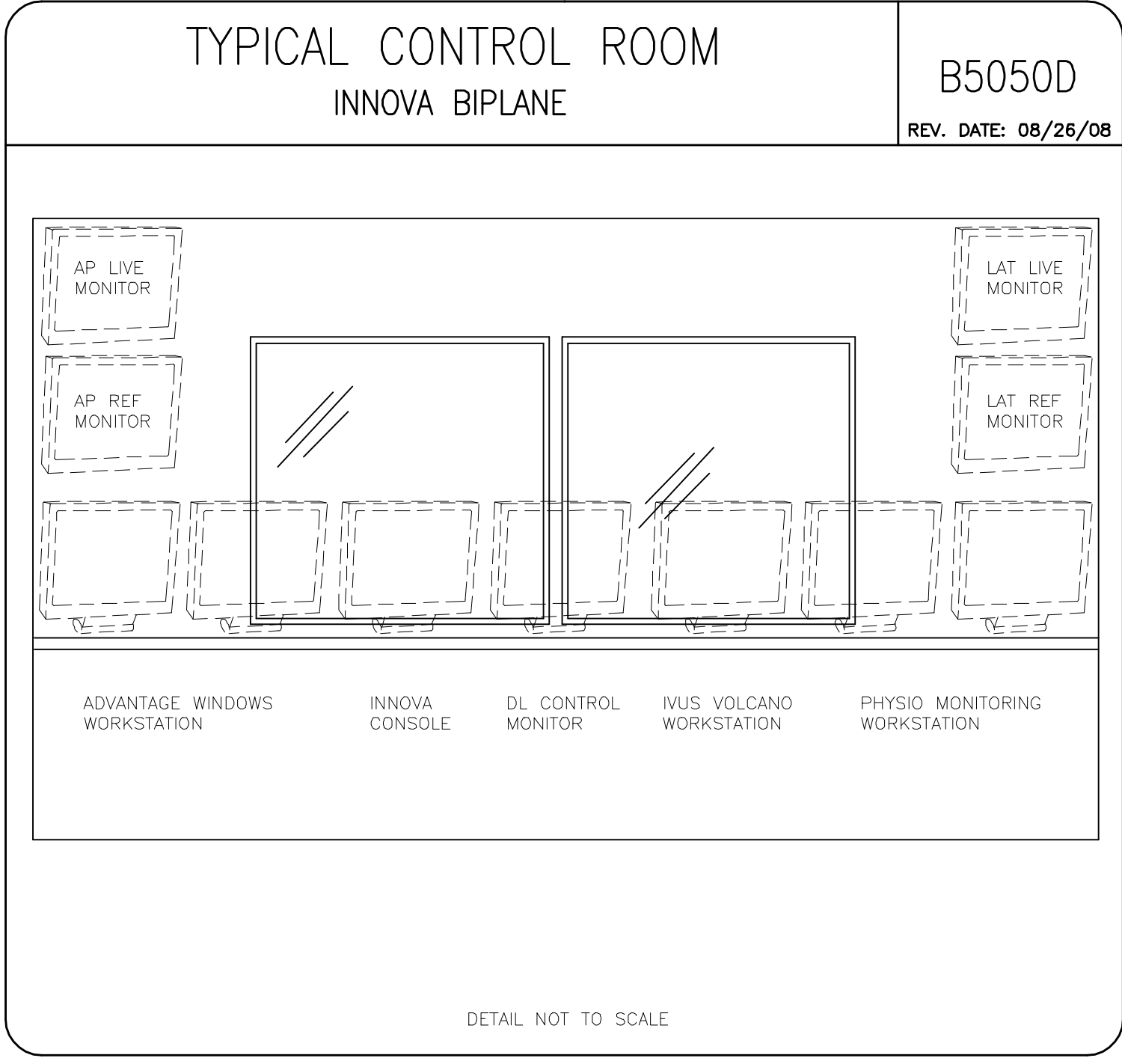
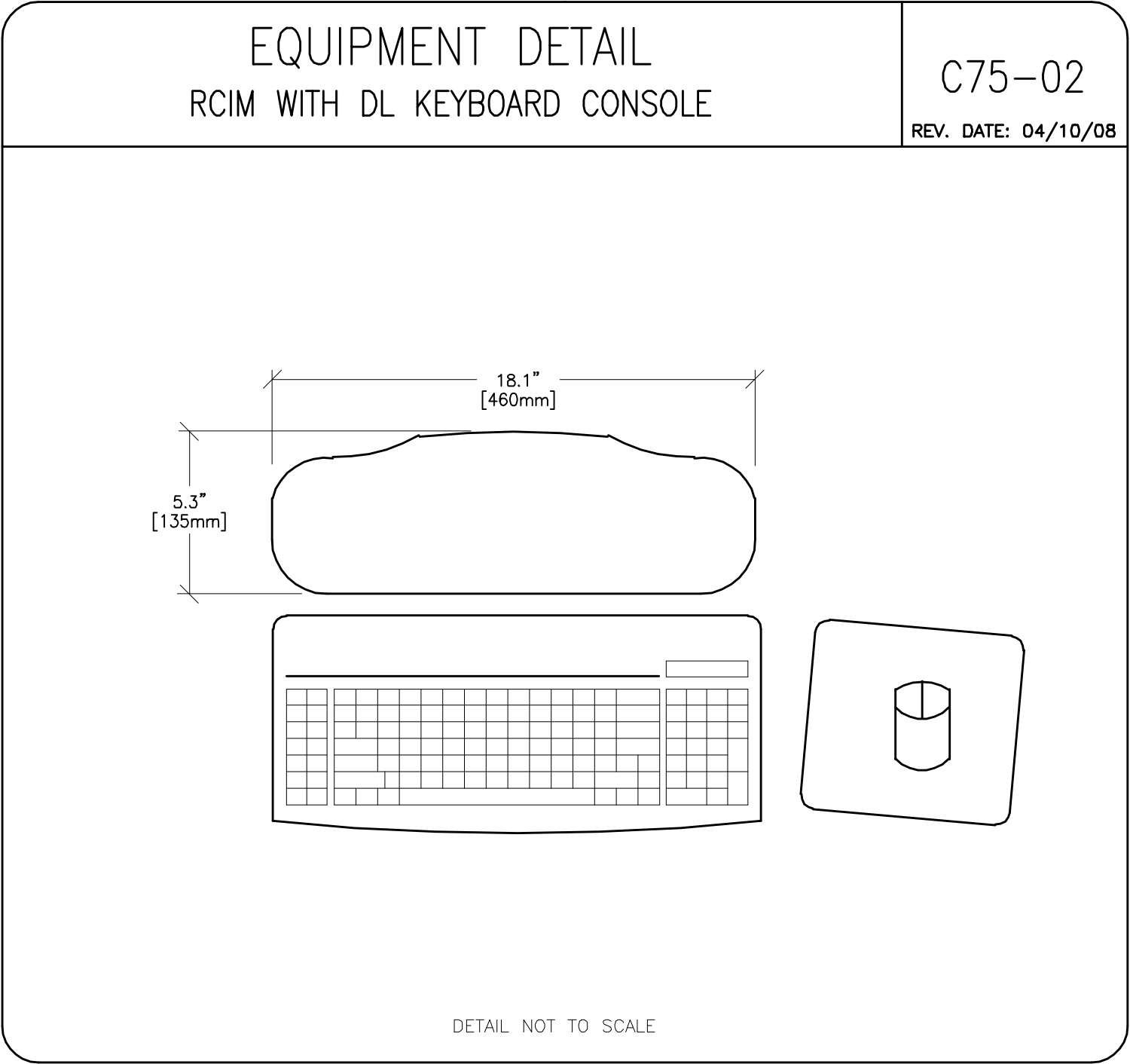
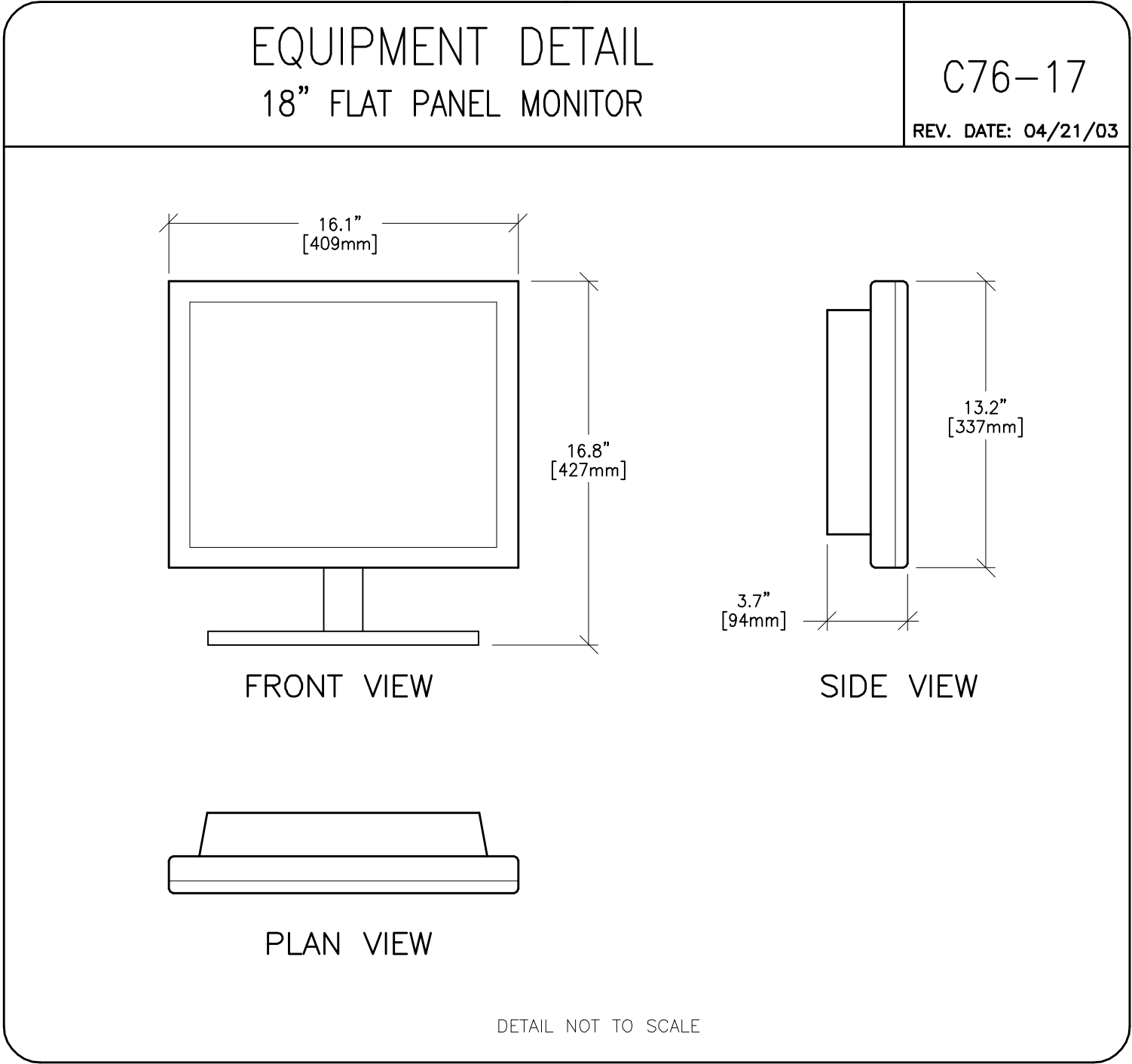
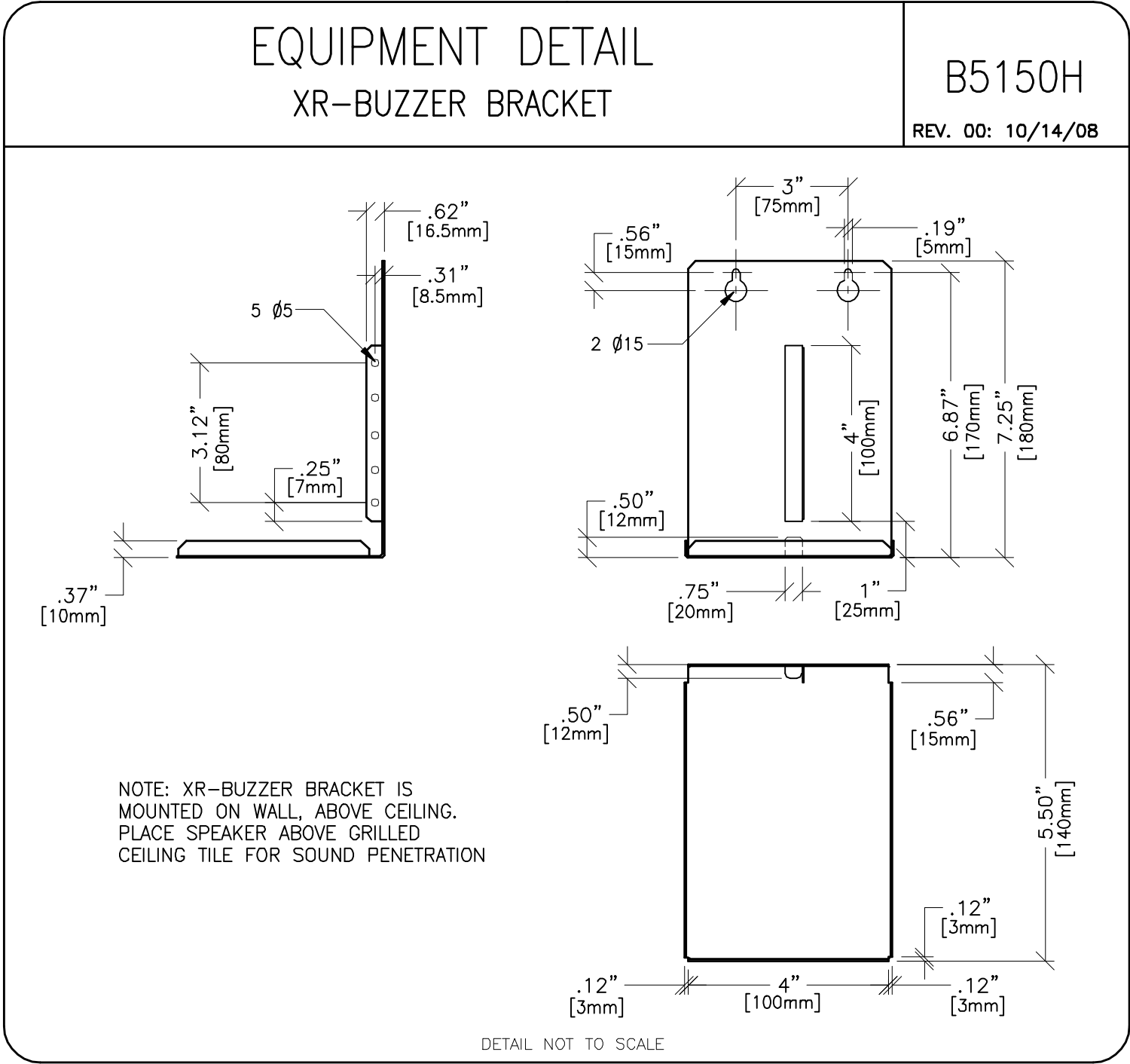
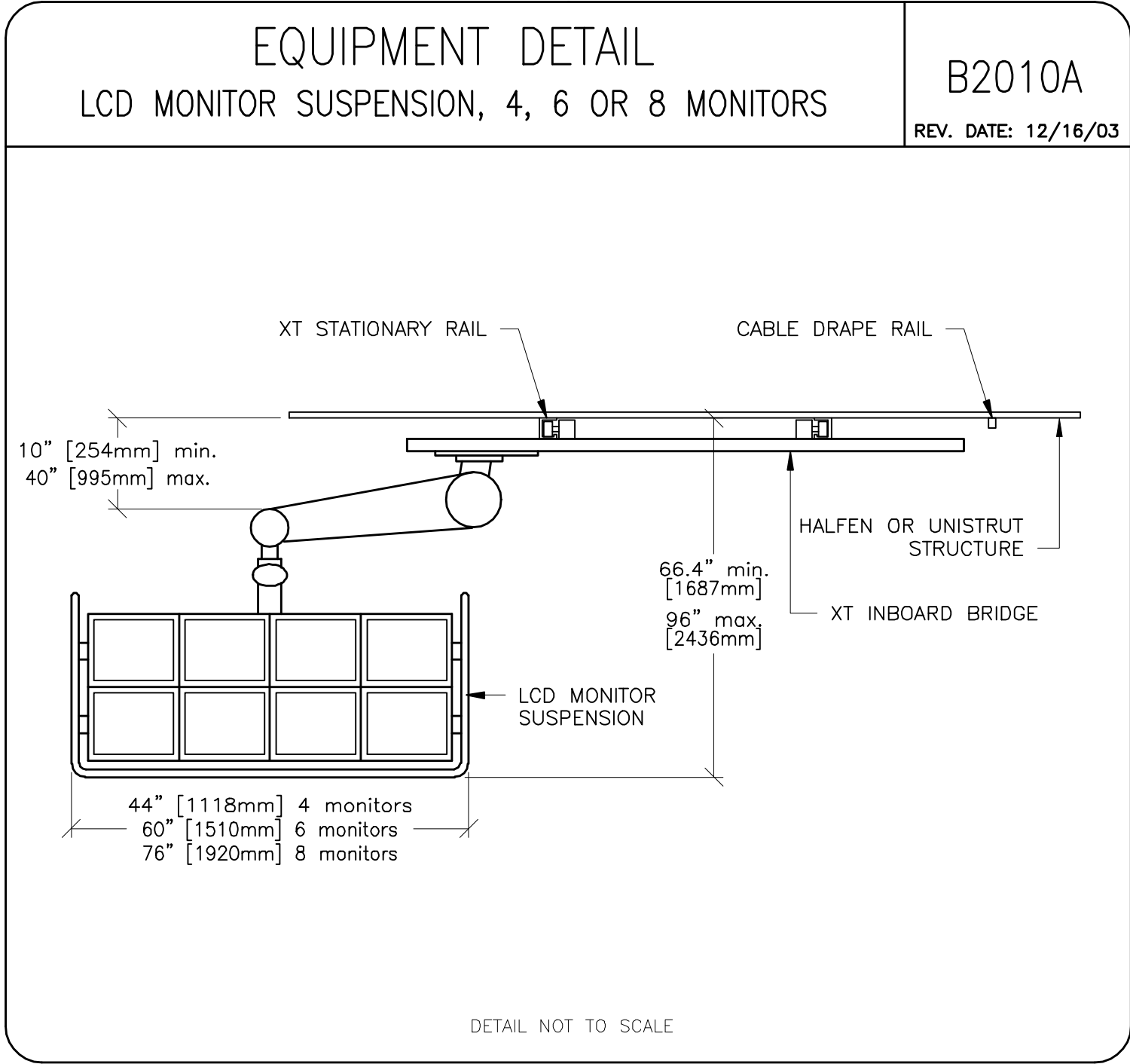
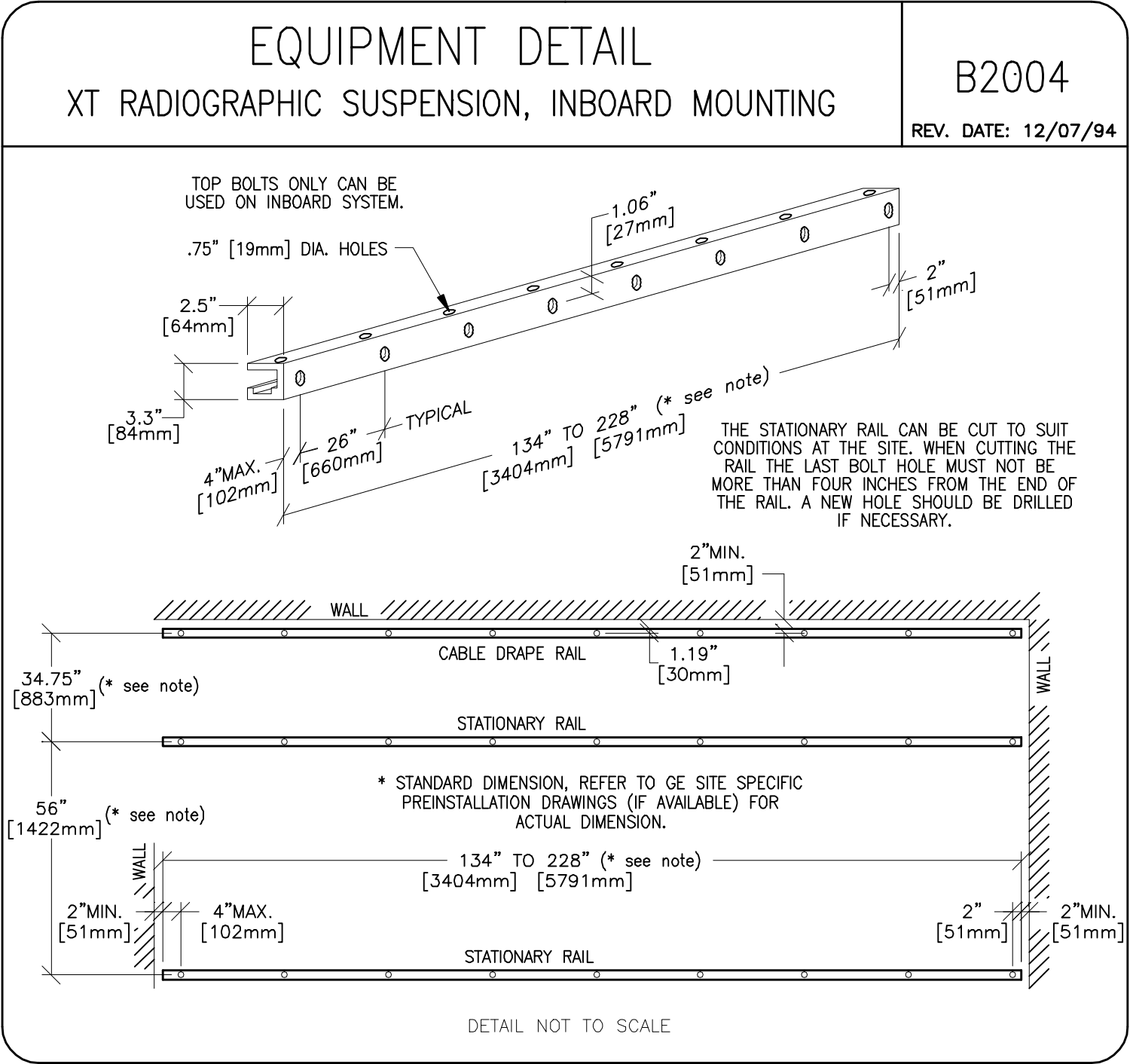
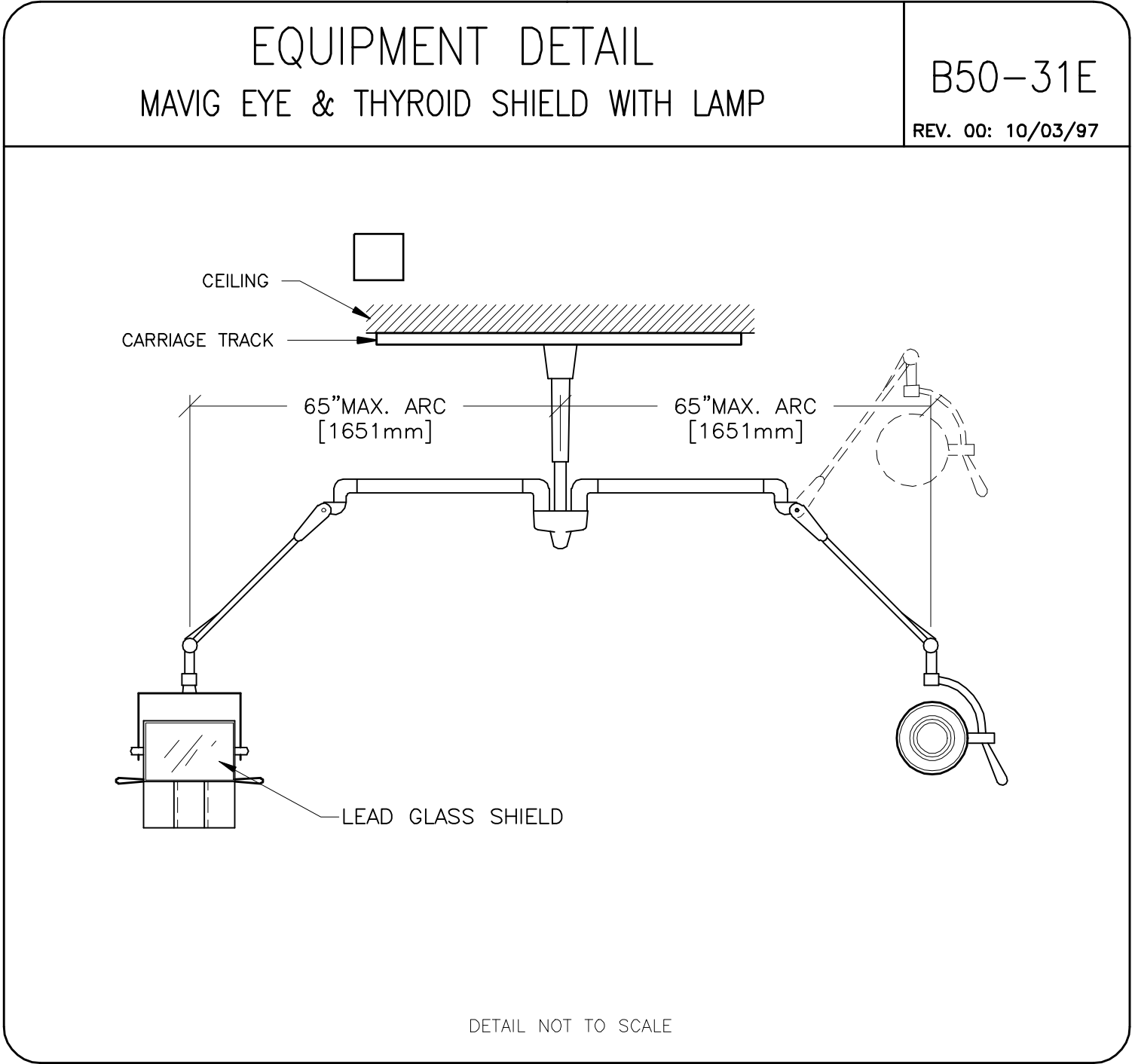
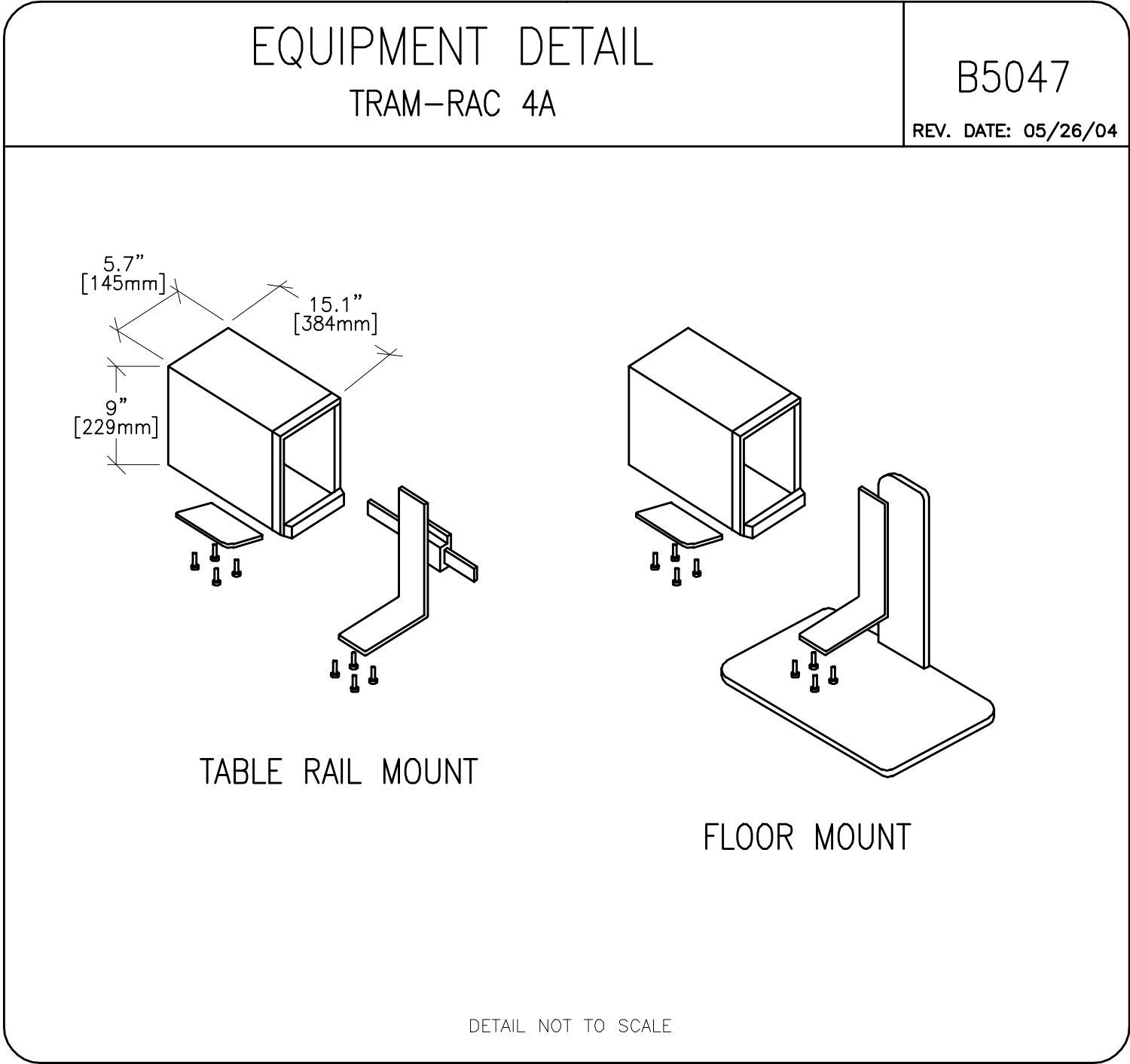
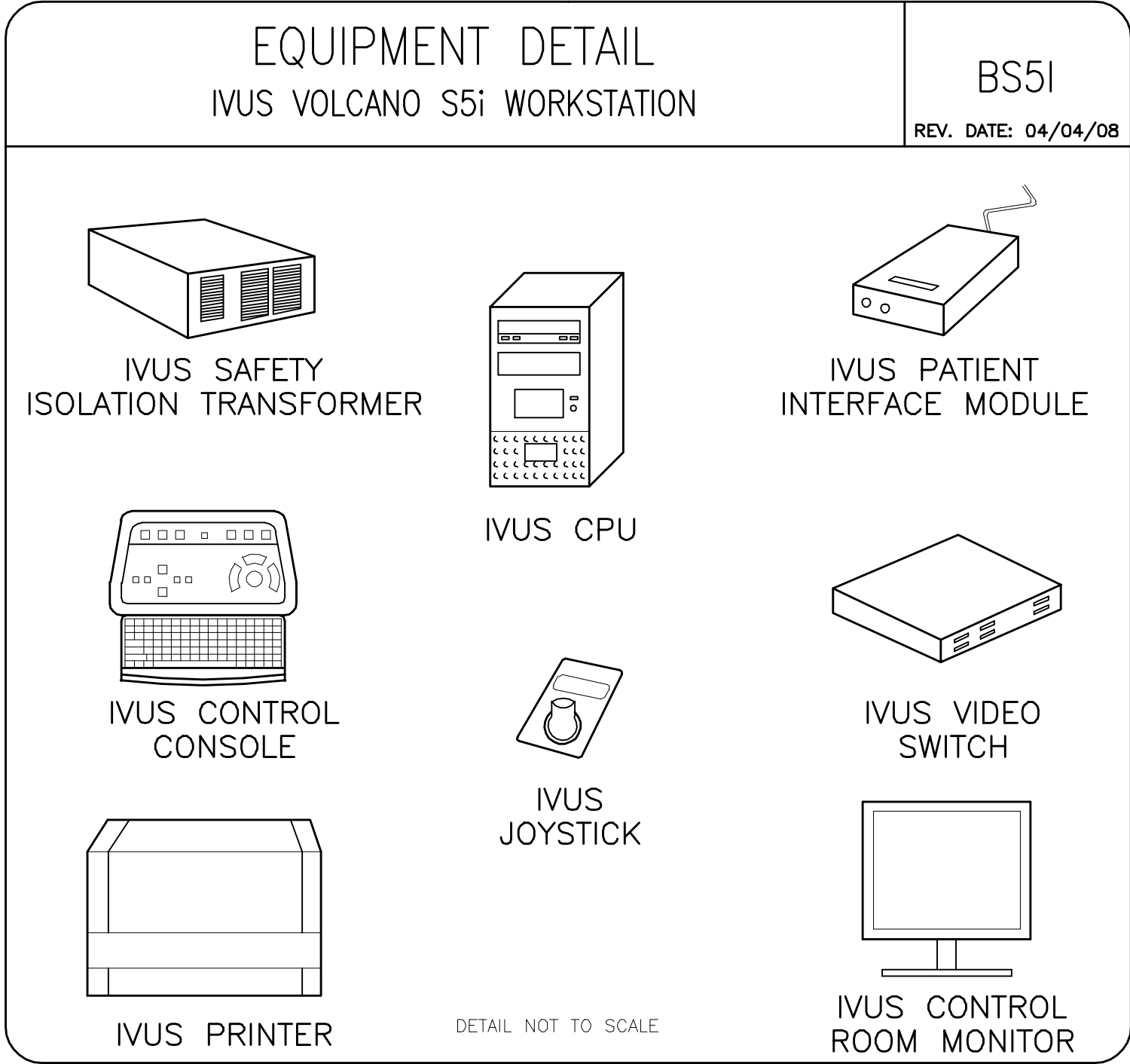
CATH LAB
TYPICAL FINAL LAYOUT

PROJECT	REVISION
5-84	00
DATE:	11-18-08
DRAWN BY:	LLM
CHECKED BY:	TST

REVISION HISTORY:

SHEET

E4



B5150D



B5150E

REV. DATE: 12/13/06



B5150F

REV. DATE: 01/10/07



B5150G
REV. DATE: 01/03/07



E4502SG

REV. DATE: 05/10/05

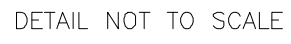


B0558B

REV. DATE: 01/04/07



E45-02BB
REV. DATE: 08/06/07



M0917B
REV. DATE: 05/17/05



B5150A



C76-17B

REV. DATE: 04/29/04



B50-28



B50-31H
REV. DATE 02/28/02



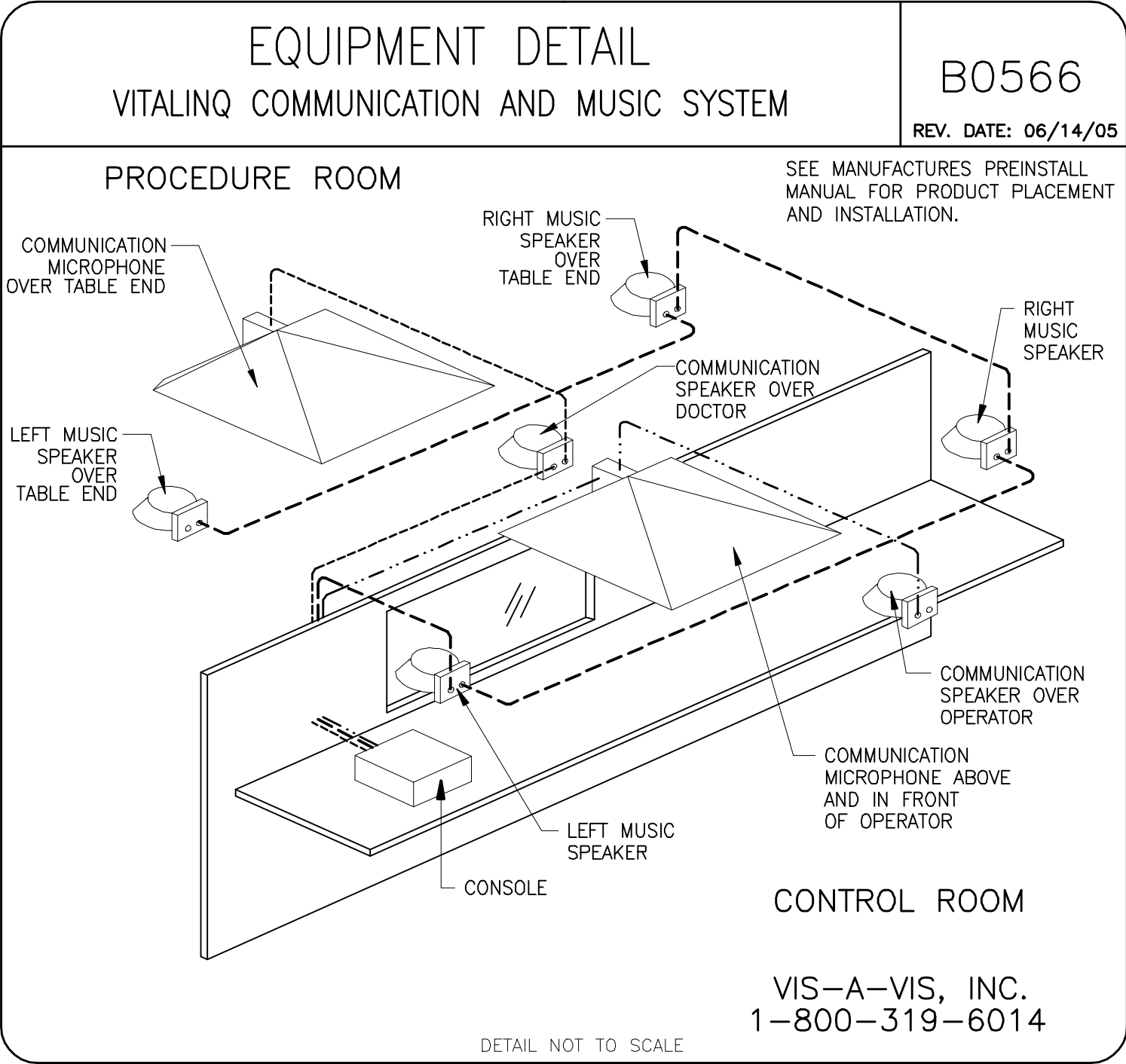
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MODALITY TYPE: INNOVA 2121/ 3131 BIPLANE

PROJECT TITLE:

REVISION HISTORY:

SHEET
D2



**GE Healthcare Technologies**

Installation Services Design Center

Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: INNOVA 2121/ 3131 BIPLANE

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PROJECT TITLE:

CATH LAB

TYPICAL FINAL LAYOUT

PROJECT	REVISION
5-84	00
DATE:	11-18-08
DRAWN BY:	LLM
CHECKED BY:	TST

REVISION HISTORY:

SHEET

D3