

# 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 \*

Revolution XRD 2X  
Preinstallation Manual  
5115585

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



## 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

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 # : _____			Customer: _____			
GEHC On-site Representative : _____			MI Supplier: _____			
Name of customer reviewed with : _____			Lead Installer: _____			
GEHC PMI : _____			Phone Number: _____			
Target Site Prep Completion Date: _____			Helper: _____			
The customer is responsible for proper site preparation and site readiness regardless of any GEHC inspections/assessments.						
Item #	GEHC Minimum Requirements	Storage: Is item ready?	Predict (Pre-ship) Is this item ready? Will item be ready?	Verify (Delivery): Is item ready?	Validate (Mech install): Is item ready?	Comments If "N", please enter in comments or action plan
1	Equipment installation drawings must match actual room size and 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 Healthcare Technologies  
Installation Services Design Center  
Milwaukee, Wisconsin

SHEET TITLE: SITE READINESS  
MODALITY TYPE: REVOLUTION XR/d 2X  
THIS PLAN IS SUBMITTED TO SUPPORT LOCATION OF GE HEALTHCARE EQUIPMENT. THE PLANNING AND PREPARATION OF THE SITE FOR THE EQUIPMENT IS THE RESPONSIBILITY OF THE CUSTOMER. GE HEALTHCARE IS NOT RESPONSIBLE FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
1-132f  
TYPICAL LAYOUT

PROJECT	REVISION
1-132f	04
DATE:	08-15-07
DRAWN BY:	SDB
CHECKED BY:	REK

REVISION HISTORY:


SHEET  
C1

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

ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "0"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	EQUIPMENT CROSS REFERENCE CHART		ELEC PLAN	
							STRC PLAN	SEISMIC STATUS		
1	1		XT RADIOGRAPHIC SUSPENSION WITH INBOARD MOUNTING.	628 lbs	501 btu	B2004	B20041	B20041	XTS1	C
2	2		LONGITUDINAL STATIONARY RAIL FOR XT SUSPENSION	68 lbs			B20041	B20041		C
3	1		DIGITAL ELEVATING TABLE	954 lbs	1102 btu	B0557A		RT		S
4	1		SYSTEMS CABINET	1166 lbs	2457 btu	B0558B		SKL		S
5	1		OPERATORS CONSOLE	74 lbs	1235 btu	C7617 C7502 M1013A		WBC1		-
6	1		GRID HOLDER (FIELD VERIFY IDEAL LOCATION)	35 lbs		B0557G B0557H				S
7	1		DIGITAL CHEST UNIT	595 lbs	819 btu	B0557E		SFF	WLS	C
8	1		DETECTOR SUPPORT ASSEMBLY	97 lbs		B0557D			DSA	-

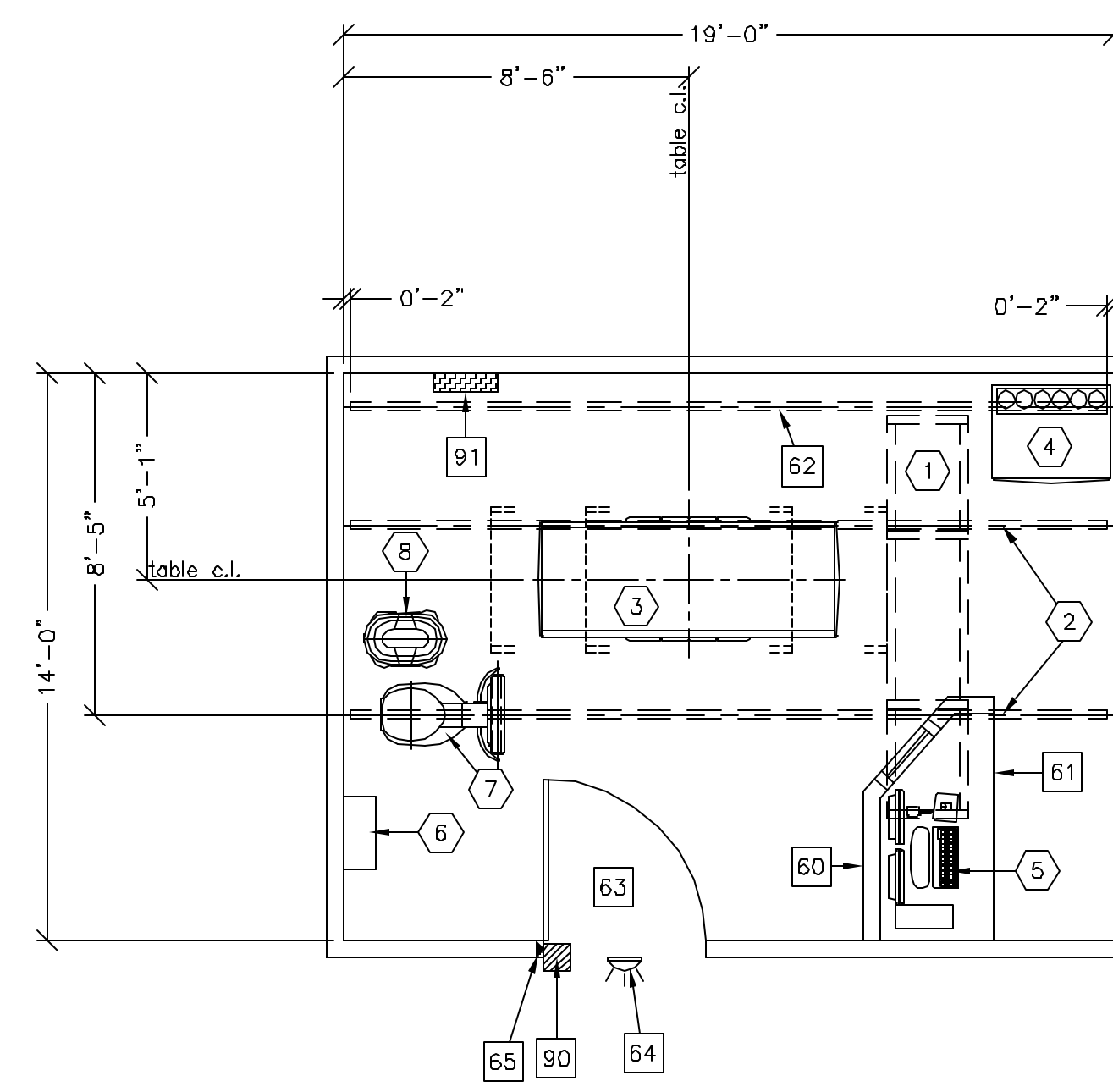
P = PREAPPROVAL  
C = CALCULATIONS/PENDING APPROVAL  
S = SPECIFICATIONS ONLY

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

EQUIPMENT LAYOUT

RECOMMENDED CEILING HEIGHT = 9'-6"

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



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

ANCILLARY ITEMS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	CONTROL WALL, 7 FT. HIGH WITH LEAD GLASS VIEWING WINDOW.
61	COUNTER TOP FOR EQUIPMENT - PROVIDE GROMMETED OPENINGS AS REQUIRED TO ROUTE INTERCONNECT CABLES TO RACEWAY BELOW COUNTERTOP.
62	CABLE DRAPE RAIL.
63	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 44 IN. W x 83 IN. H (1118mm x 2108mm), CONTINGENT ON A 96 IN. (2438mm) CORRIDOR WIDTH.
64	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL 800-803-3760 GE CAT. NO. WX1ABW-DF-XIU
65	DOOR LIMIT SWITCH

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 'XRF' ON SHEET 'E1' FOR DETAILED DESCRIPTION -E4500RL FOR WARNING LIGHT CONTROL ONLY.
91	MAIN DISCONNECT, REFERENCE JUNCTION POINT 'A' ON SHEET 'E1' FOR DETAILED DESCRIPTION CAT. NO. E4502BS OR WITH AUTO RESTART E4502SA. (20 W X 48 H X 6.68 IN. D)

GENERAL SPECIFICATIONS

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

SITE ENVIRONMENT SPECIFICATIONS

- AMBIENT OPERATING TEMPERATURE: 59 TO 75 DEGREES (F), MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 15 DEGREES (F)/HOUR.
- HUMIDITY: REFER TO PREINSTALLATION MANUAL FOR THE EQUIPMENT ILLUSTRATED ON THIS DRAWING.
- ALTITUDE: NOT TO EXCEED 8,000 FT. ABOVE SEA LEVEL.
- THE ENVIRONMENT FOR THE ELECTRONICS CABINET MUST BE CONTROLLED SO THE ABOVE RESTRICTIONS ARE NOT EXCEEDED.
- DO NOT RESTRICT THE AIR INTAKE 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.

**GE Healthcare Technologies**  
Installation Services Design Center  
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT LAYOUT  
MODALITY TYPE: REVOLUTION XR/d 2X  
THIS PLAN IS SUBMITTED TO SUBMIT LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL, MECHANICAL, 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 RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
1-132f  
TYPICAL LAYOUT

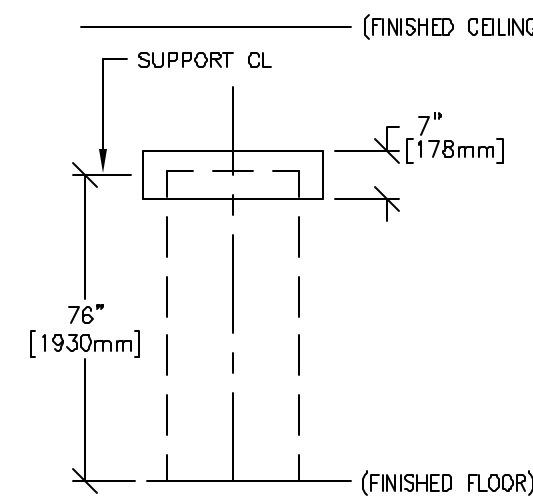
PROJECT	REVISION
1-132f	04
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REVISION HISTORY:


SHEET  
A1

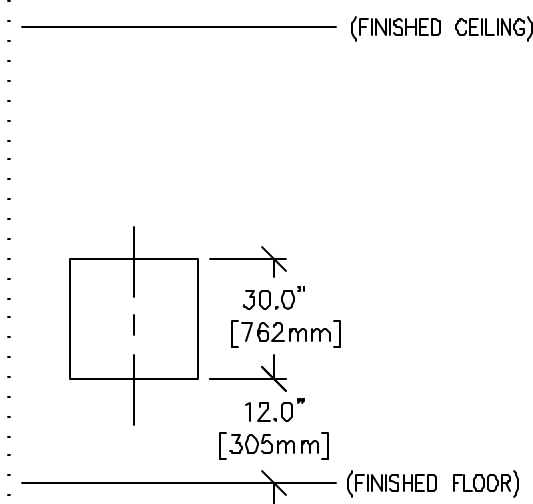
TYPICAL WALL SUPPORT ELEVATIONS

S116



SUPPORT FOR ATLAS/SYSTEMS CABINET (NOT TO SCALE)

S106

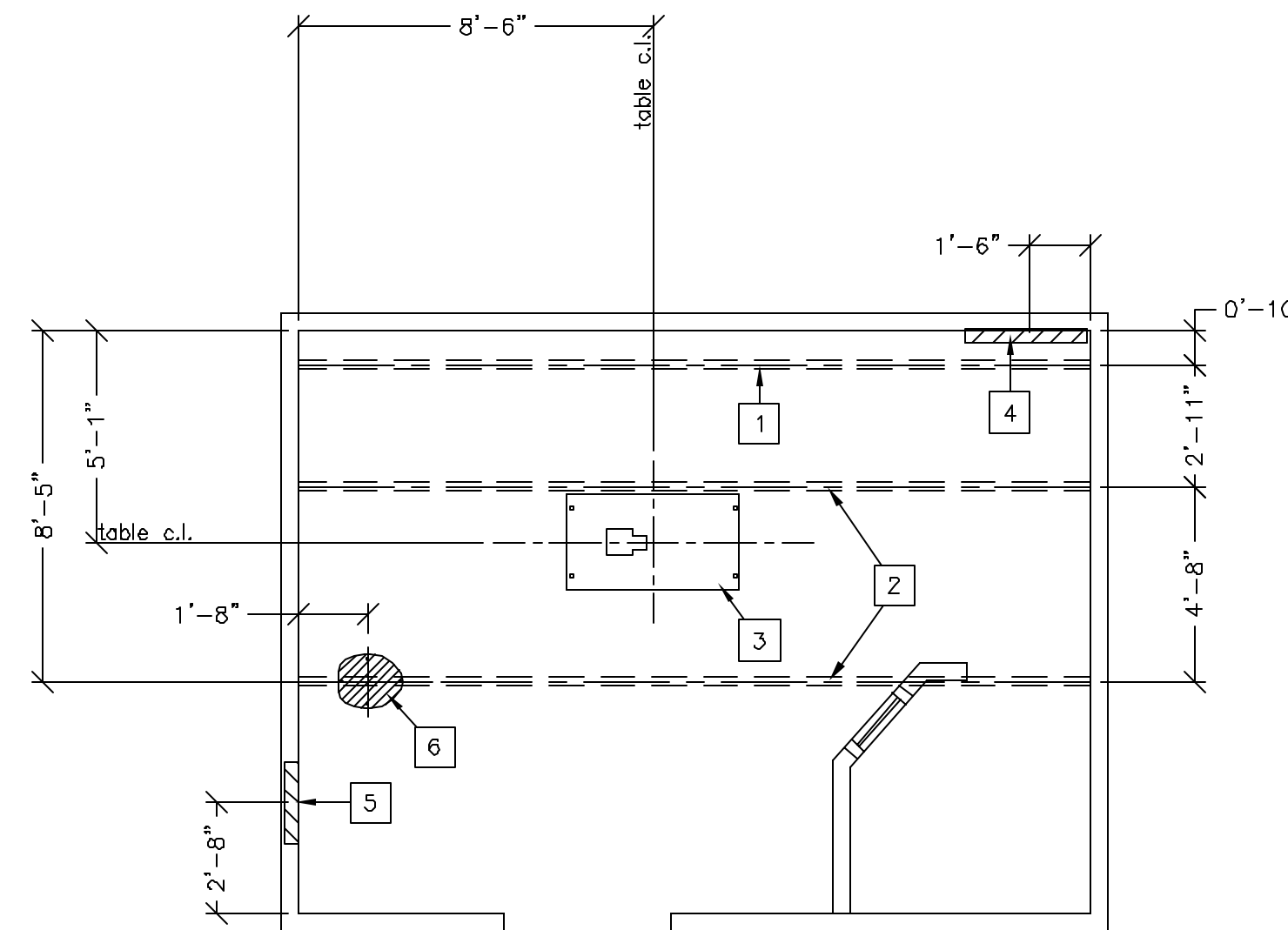


SUPPORT FOR GRID HOLDER (NOT TO SCALE)

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

STRUCTURAL LAYOUT

RECOMMENDED CEILING HEIGHT = 9'-6"



STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	>>COMPONENTS FLUSH WITH CEILING<< UNISTRUT OR EQUIVALENT SUPPORT IN CEILING FOR FASTENING CABLE DRAPE RAIL. SUPPORTS TO 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 THE FINISHED CEILING. RAILS ARE MOUNTED TO THESE SUPPORTS EVERY 2'-0" AND REQUIRE 50 LBS. PER BOLT LOAD. METHODS OF SUPPORT THAT PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION. >>COMPONENTS BELOW CEILING<< CABLE DRAPE RAIL UNISTRUT CAT. NO. CP655 or EQUIVALENT. TO ORDER CALL UNISTRUT WISCONSIN AT 262-796-8710.
2	UNISTRUT OR EQUIVALENT SUPPORT IN CEILING FOR FASTENING STATIONARY RAILS. SUPPORTS TO 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 THE FINISHED CEILING. RAILS ARE MOUNTED TO THESE SUPPORTS EVERY 2'-0" AND REQUIRE 350 LBS. (597 LBS IN SEISMIC REGIONS) PER BOLT LOAD. METHODS OF SUPPORT THAT PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION.
3	FLOOR CONTACT AREA FOR TABLE Seismic Zone ANCHORING HARDWARE ----- < DETECTOR SUPPORT > ANCHORS = Hilti KB3 - 3/8 x 3.75 in. (4 ea.) < WALL STAND > ANCHORS = Hilti KB3 - 1/2 x 9 in. (4 ea.) < GRID HOLDER > SCREWS = No. 12 TEK Screws (4 ea.) < SYSTEM CABINET > ANCHORS = Hilti KB3 - 3/8 x 3.75 in. (4 ea.) < SYSTEM CABINET > SCREWS = No. 12 TEK Screws (4 ea.) < TABLE > ANCHORS = Hilti KB3 - 1/2 x 9 in. (4 ea.) ALL ANCHORS TO INCLUDE 1 FLATWASHER ALL BOLTS TO INCLUDE 2 FLATWASHERS, 1 LOCKWASHER AND 1 NUT. ALL BRACKETS ARE SHIPPED WITH GE EQUIPMENT.
4	SUPPORT BRACKING, LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S116, FOR ATLAS CABINET.
5	SUPPORT BRACKING, LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S106, FOR GRID HOLDER.
6	FLOOR CONTACT AREA FOR CHEST READER

STRUCTURAL NOTES

- 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.  
(10) 12.7mm (1/2") DIA. x 38.1mm (1 1/2") LONG BOLTS WITH UNISTRUT 12.7mm (1/2") NUTS WITH SPRINGS ARE TO BE PROVIDED BY CUSTOMER OR HIS CONTRACTORS FOR EACH STATIONARY AND AUXILIARY SUPPORT RAIL. 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 FOR DRAWINGS 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.

**GE Healthcare Technologies**  
 Installation Services Design Center  
 Milwaukee, Wisconsin

SHEET TITLE: STRUCTURAL LAYOUT  
 MODALITY TYPE: REVOLUTION XR/d 2X

THIS PLAN IS SUBMITTED TO SUBMIT LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL, MECHANICAL, PIPING, AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT EXCEPTED TO BE INSTALLED. IT IS NOT TO BE USED FOR RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
 1-132f  
 TYPICAL LAYOUT

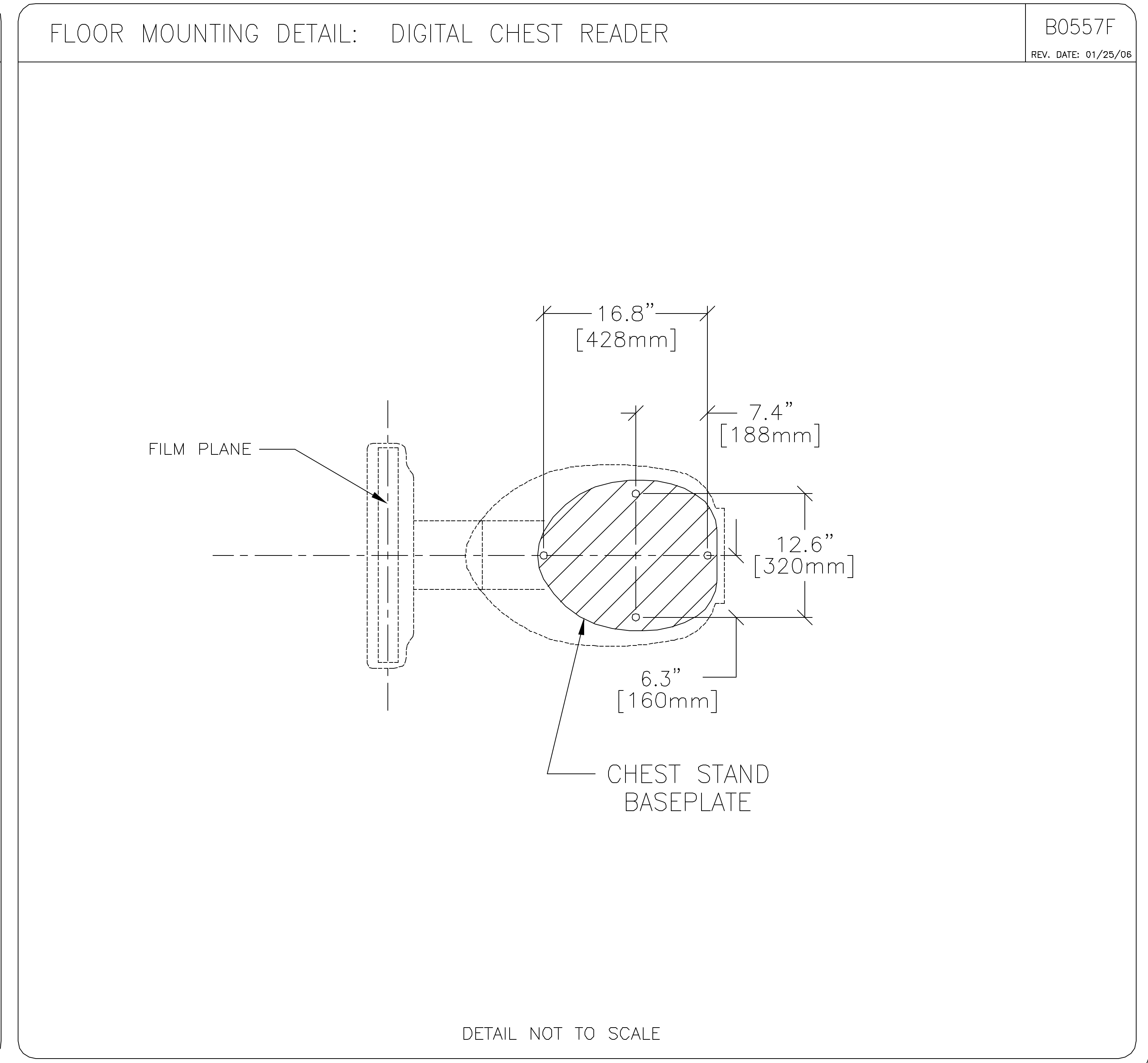
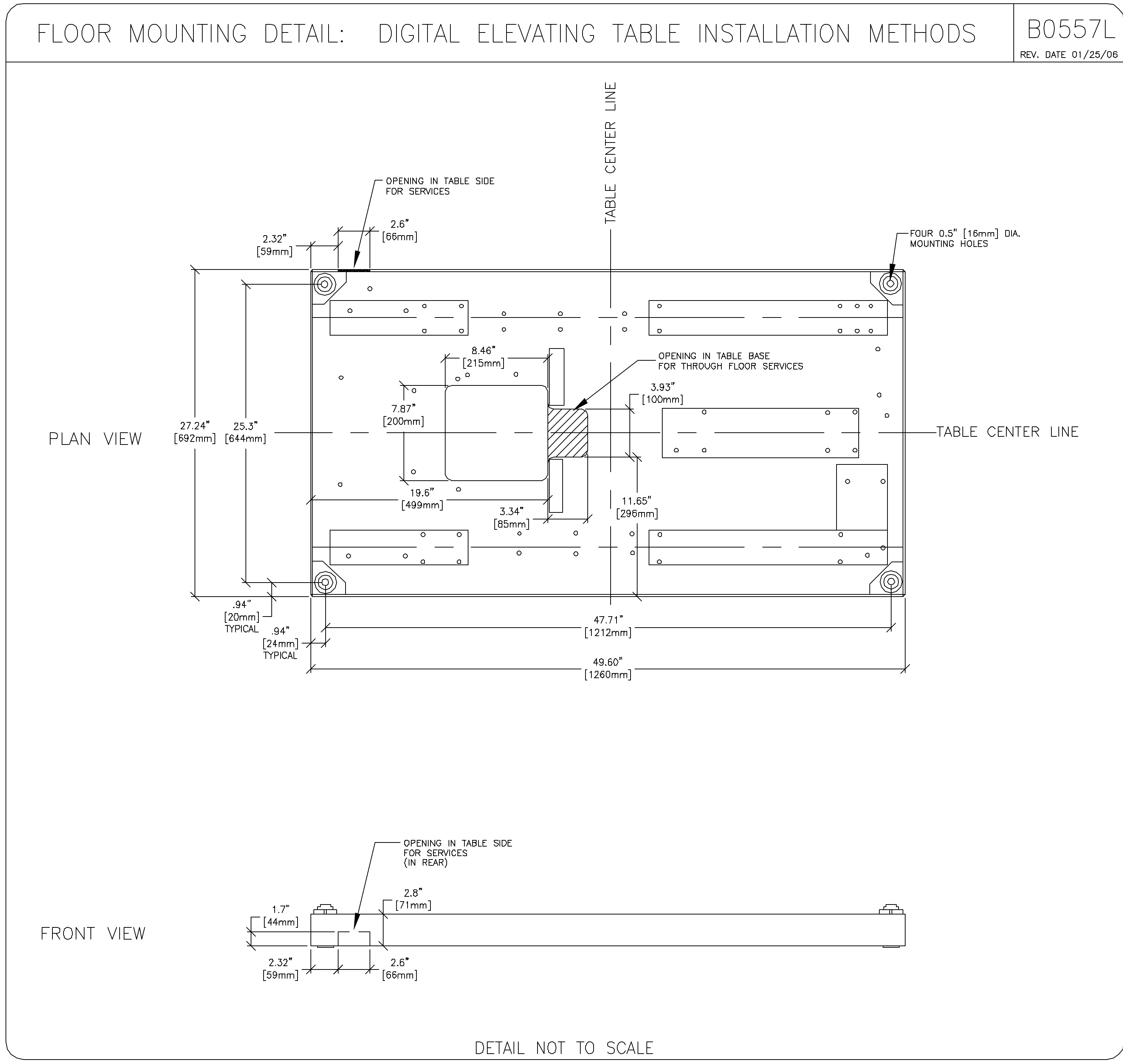
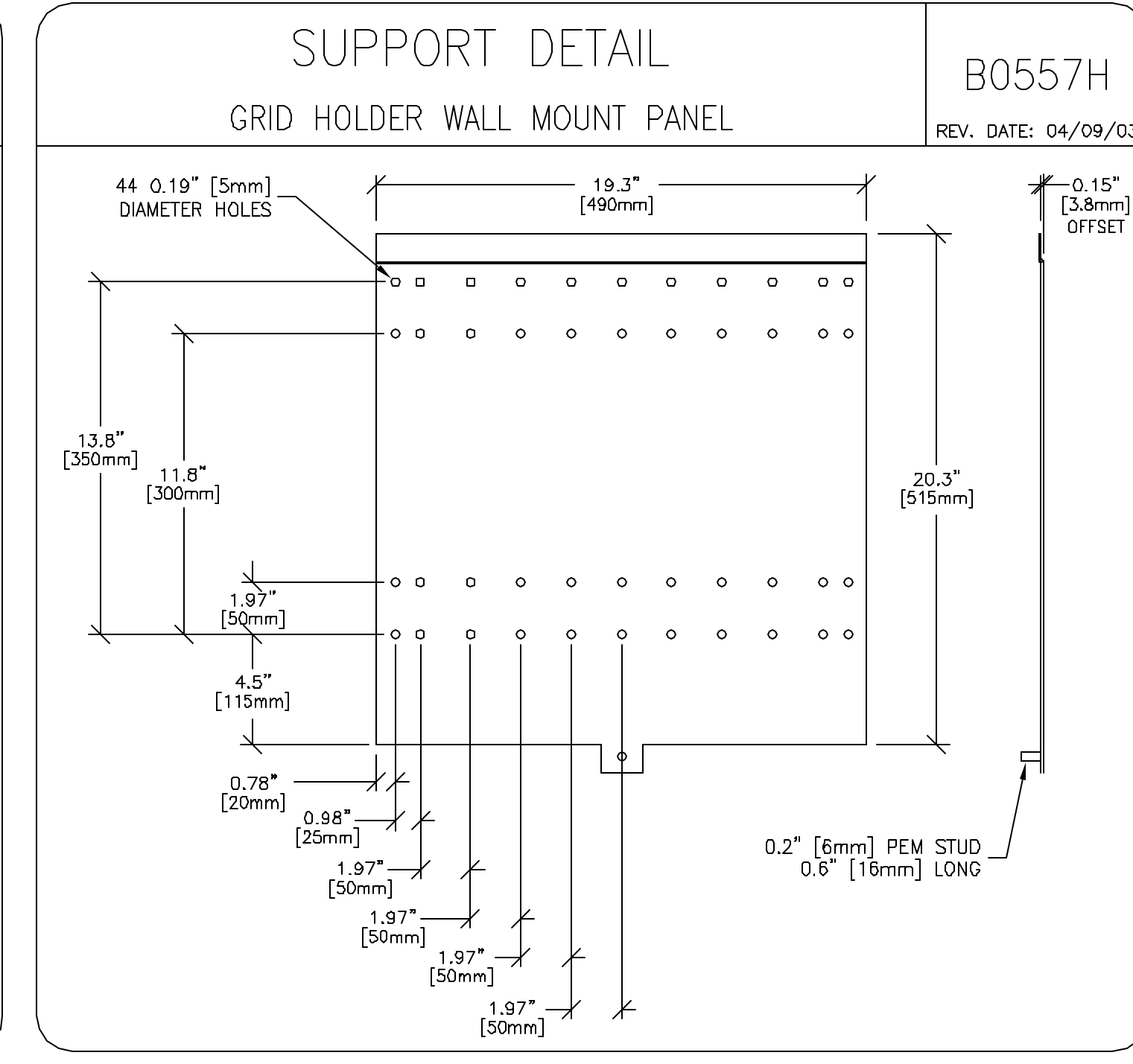
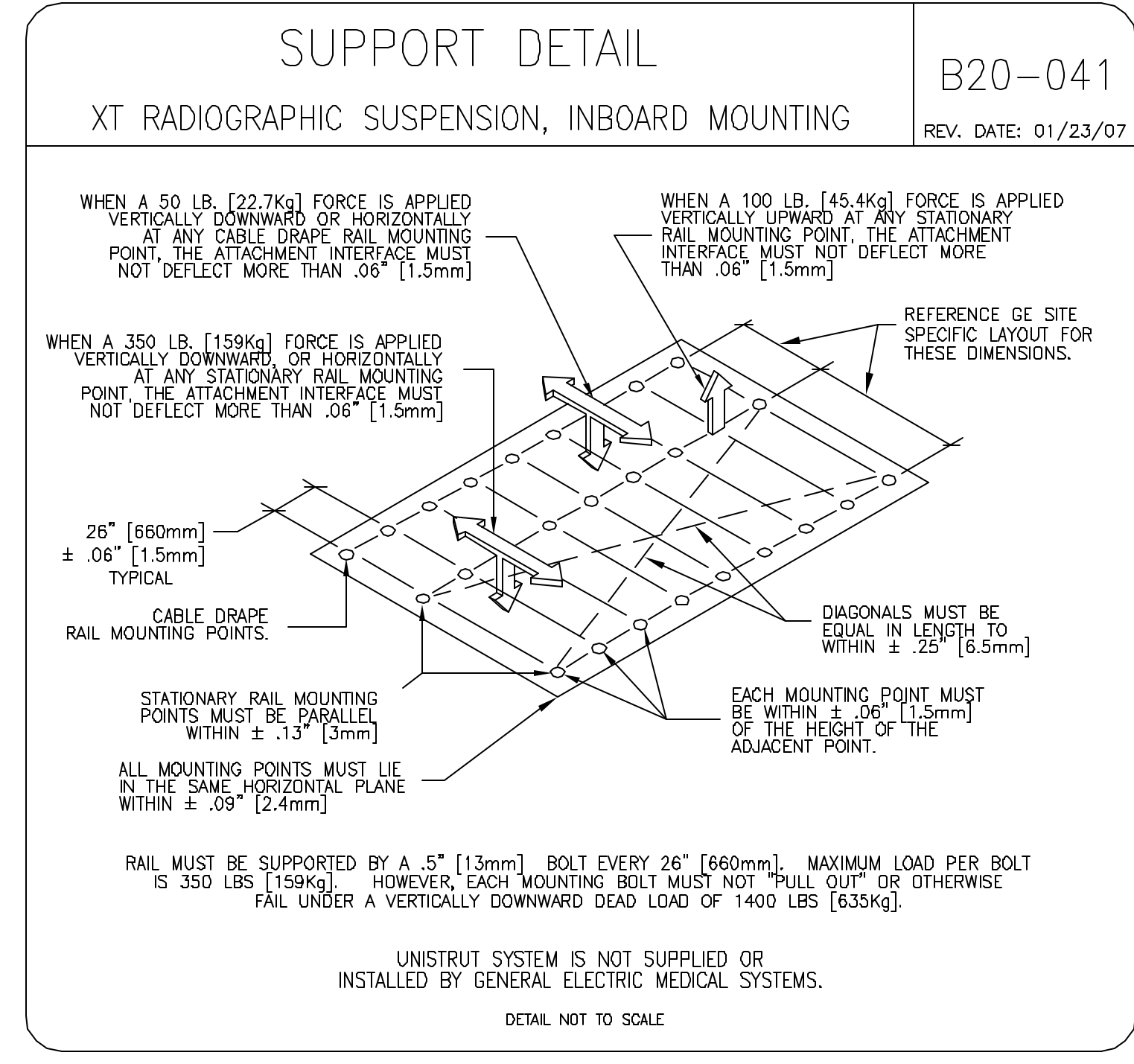
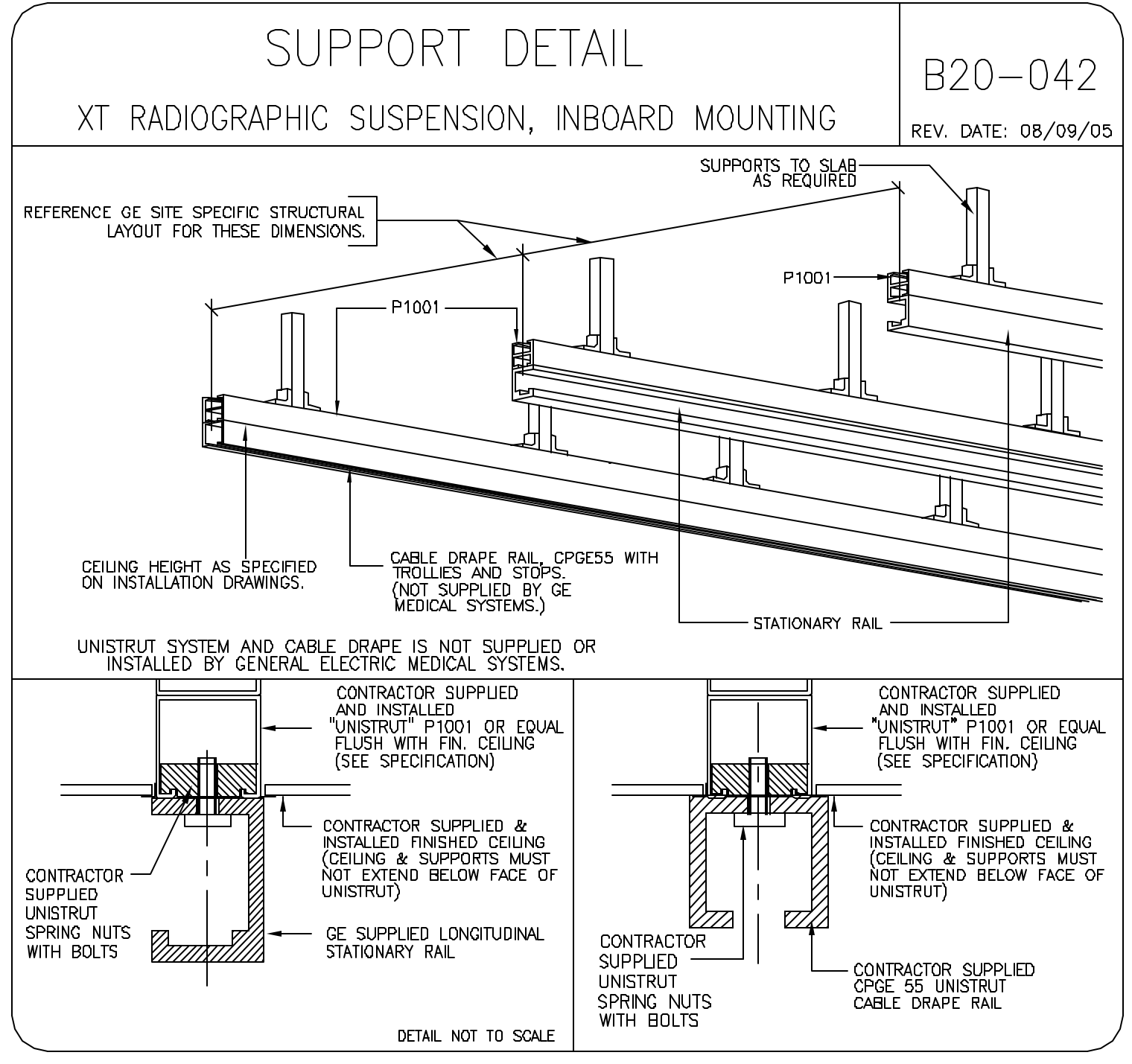
PROJECT	REVISION
1-132f	04

DATE: 08-15-07  
 DRAWN BY: SDB  
 CHECKED BY: REK

REVISION HISTORY:


SHEET  
 S1

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: STRUCTURAL DETAILS  
MODALITY TYPE: REVOLUTION XR/d 2X

THIS PLAN IS SUBMITTED TO SUBMITTER FOR REVIEW OF THE GENERAL EQUIPMENT AND ASSOCIATED ELECTRICAL, MECHANICAL, PIPING, AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO THE DETAILS TO ACTUAL EQUIPMENT EXCEPT TO BE INSTALLED. IT IS NOT TO BE USED FOR RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
**1-1321f**  
TYPICAL LAYOUT

PROJECT	REVISION
1-1321	04
DATE: 08-15-07	
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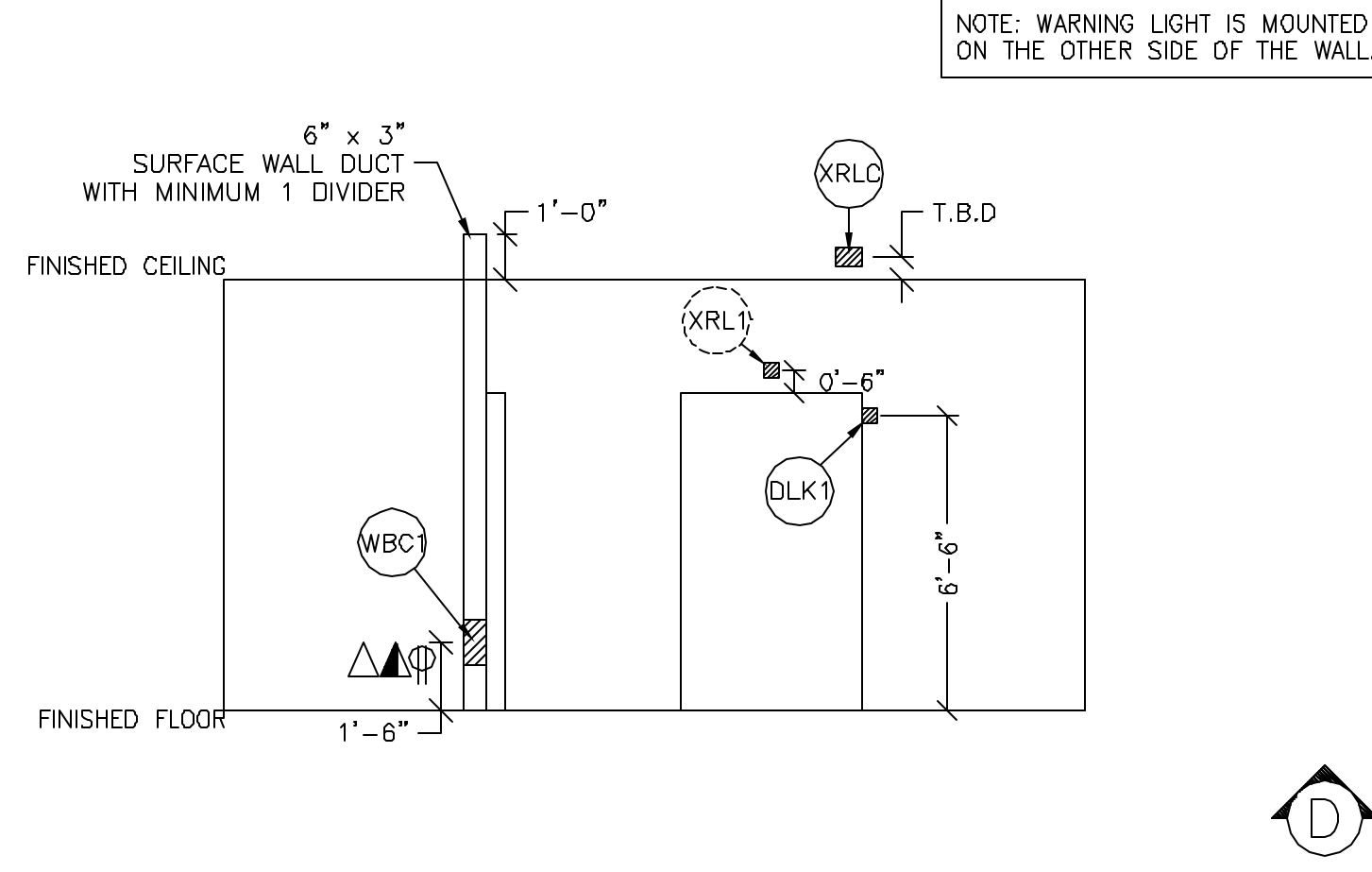
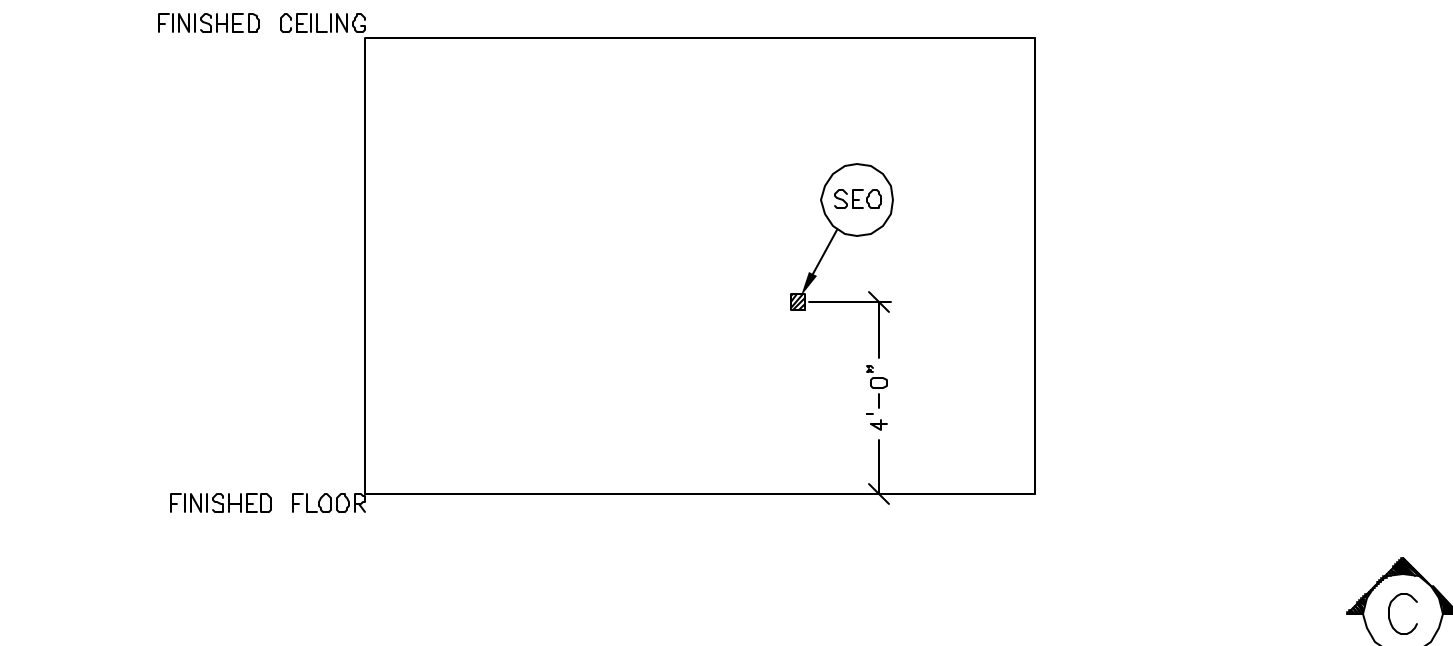
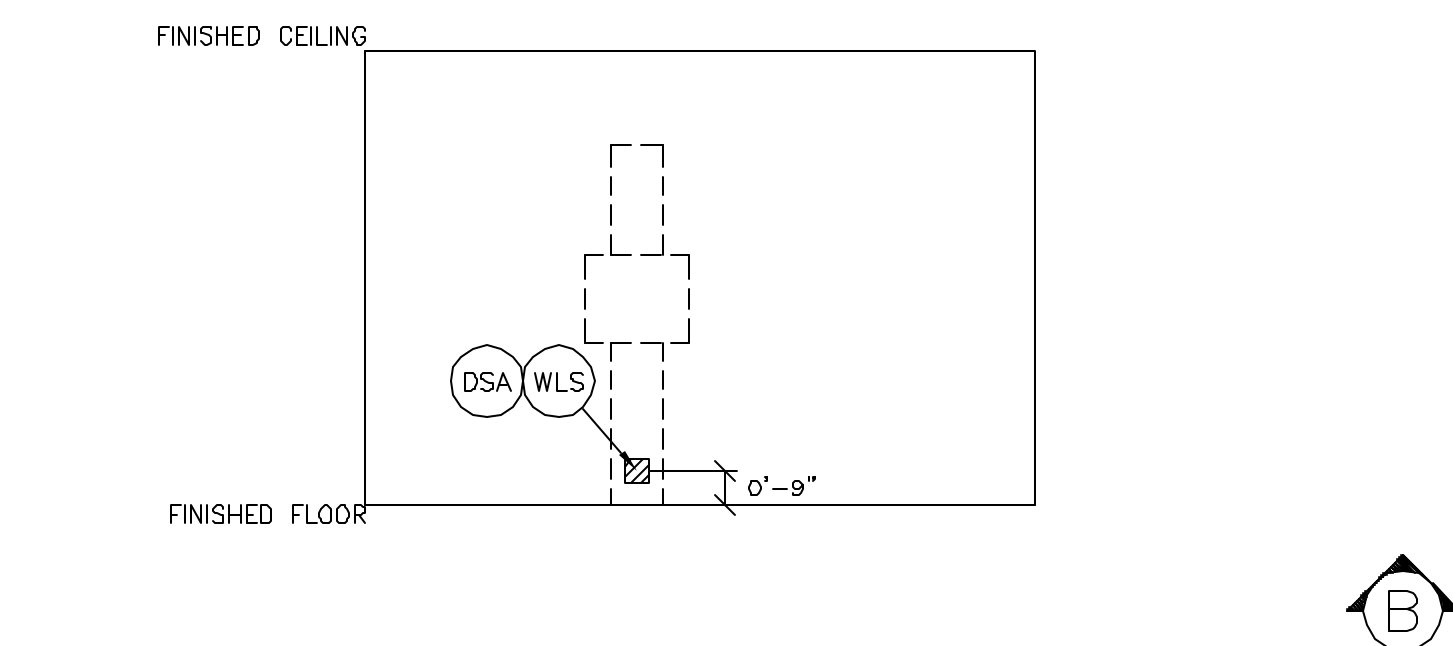
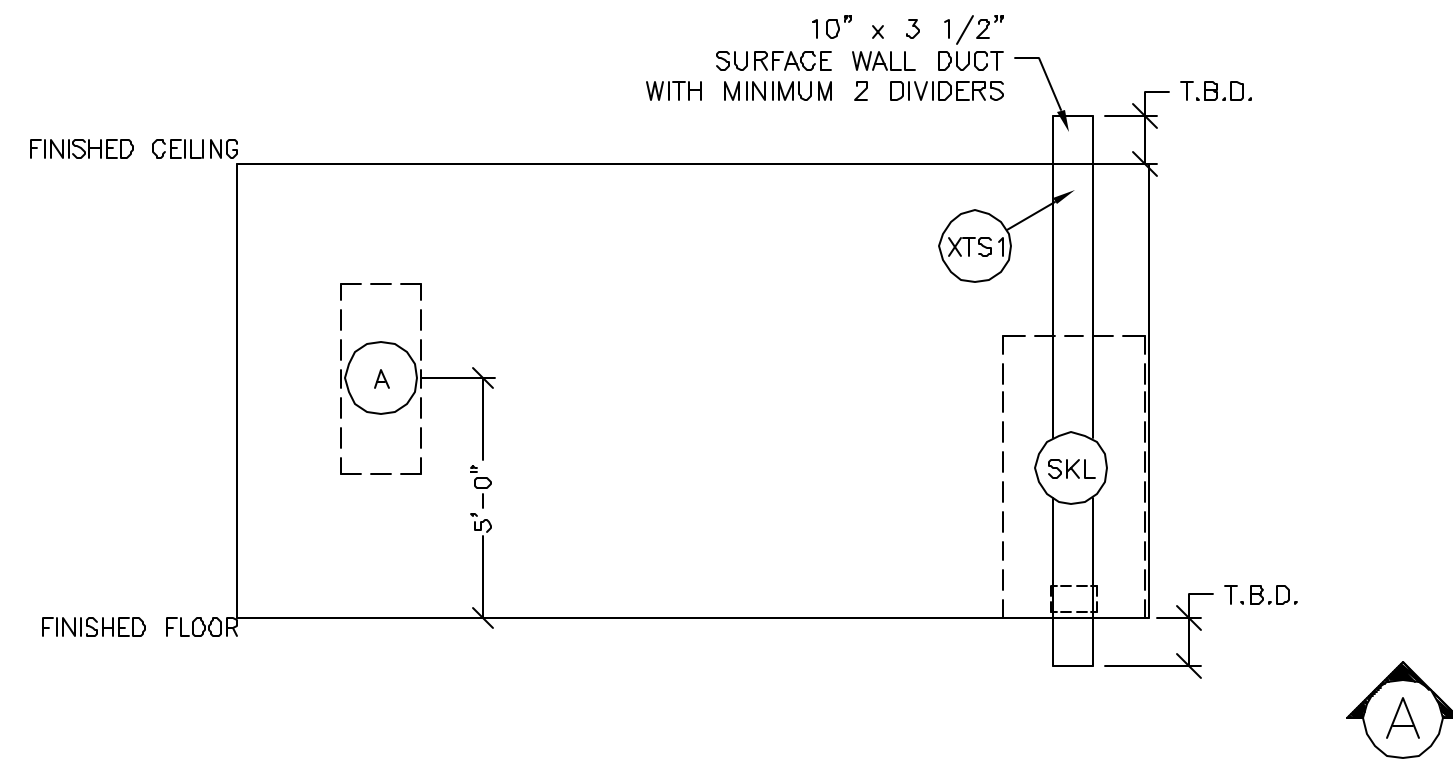

SHEET  
**S2**

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

ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 9'-6"

JUNCTION POINT DESCRIPTIONS



**ELECTRICAL OUTLET LEGEND**  
CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS.

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

**DUCT HATCHING LEGEND**

- ▨ ABOVE CEILING DUCT
- ▧ UNDER FLOOR DUCT
- ▩ TRENCH DUCT (FLUSH FLOOR)
- ▤ SURFACE FLOOR DUCT
- ABOVE CEILING CONDUIT
- BELOW FLOOR CONDUIT

- JUNCTION POINT NOTES**
- o ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMER'S 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 CUSTOMER'S 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. NO ALUMINUM OR SOLID WIRES.
  - o ALL WIRING MUST BE THHN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT UNLESS OTHERWISE STATED.
  - o GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. SITE MUST CONFORM TO WIRING SPECIFICATIONS SHOWN ON THIS PLAN.

**ADDITIONAL CONDUIT RUNS FOR REVOLUTION XQ/i, XR/d, 2X & DEFINIUM 8000 BY CONTRACTOR**

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

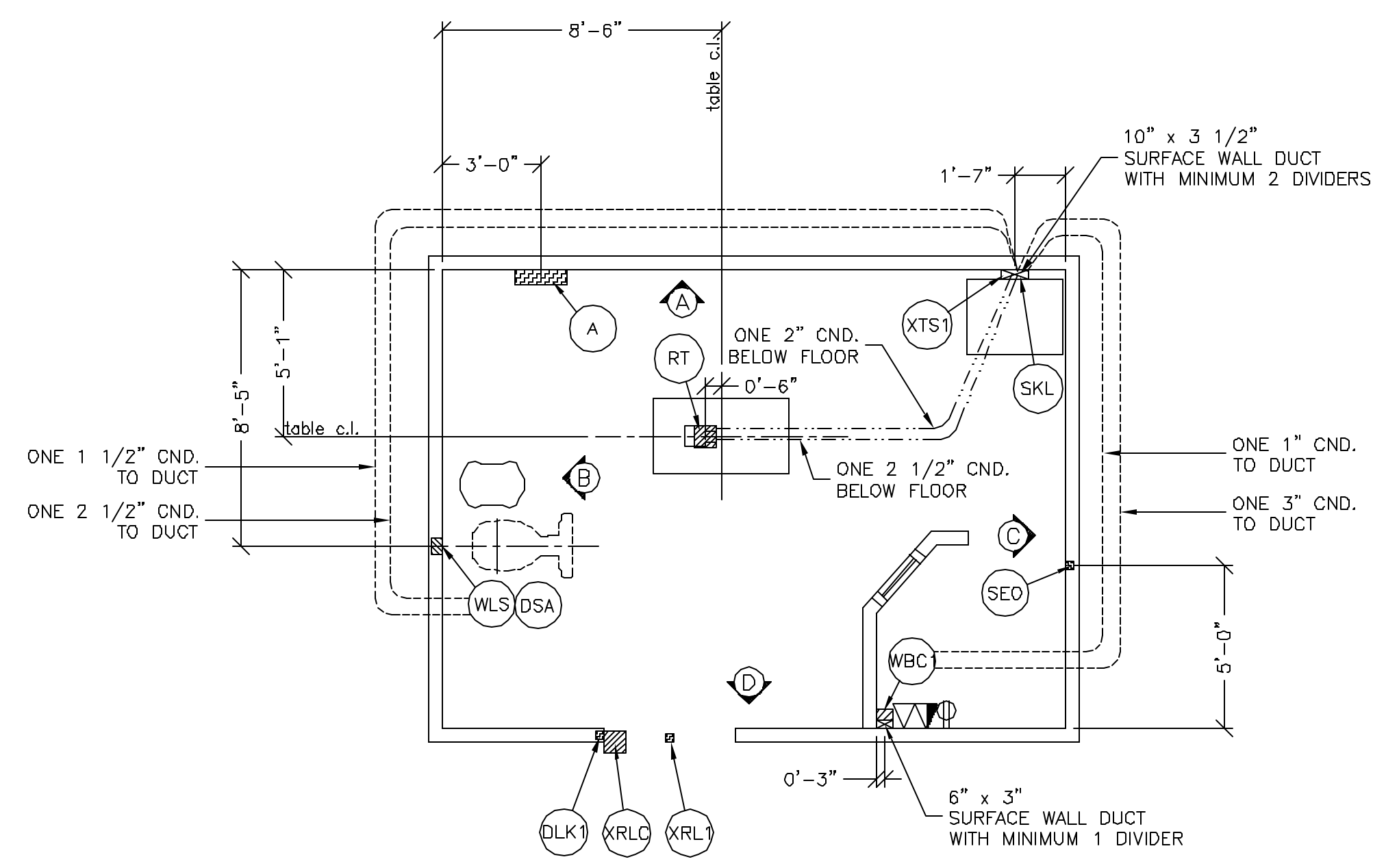
XRLC TO XRL1	ONE 1/2" CND.
XRLC TO SKL	ONE 1/2" CND.
XRLC TO 120-V 1φ POWER	CND. AS REQUIRED
A TO SEO	ONE 1/2" CND.
A TO FEEDER	ONE CND. AS REQUIRED
DLK1 TO SKL	ONE 1/2" CND.

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTH.

**JEDI 80kw SYSTEMS CABINET** REV. DATE: 04/24/07

- CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- RECOMMENDED FEEDER SIZES FROM DISTRIBUTION TRANSFORMER TO THE POWER CABINET.
- NEUTRAL MUST BE TERMINATED INSIDE THE MAIN DISCONNECT PANEL AND NOT AT ANY GROUND.
- THE GROUNDING CONDUCTOR WILL BE OF SAME SIZE AS THE FEEDER WITH A 1/0 MINIMUM. THIS GROUND WILL RUN FROM THE EQUIPMENT BACK TO THE FACILITY POWER SOURCE/MAIN GROUNDING POINT AND ALWAYS TRAVEL IN THE SAME CONDUIT WITH THE FEEDERS AND NEUTRAL.
- MINIMUM WIRE SIZE FOR CIRCUIT BREAKER, BASED ON RECOMMENDED OVERCURRENT PROTECTION.
- FOR A FULL SYSTEM UPS, REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

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



POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
A	MAIN DISCONNECT AVAILABLE FROM GEMSG, CALL 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	110-AMP CIRCUIT BREAKER PANEL, GEMS CAT. NO. E4502RS OR WITH AUTO RESTART FEATURE-E4502SA. EMERGENCY OFF PUSHBUTTON STATION IS INCLUDED.	ELEC-15
DLK1	DOOR SWITCH	1	ROOM DOOR INTERLOCK LIMIT SWITCH IN FRAME - NORMALLY OPEN (24V) SINGLE GANG BOX	ELEC-13
DSA	DETECTOR SUPPORT ASSEMBLY	1	CONNECT EXTERNALLY	ELEC-13
RT	TABLE	4	1 1/4 IN. DIA. BUSHING & LOCKNUT 3 X 8 X 4 IN. FLOOR BOX 2 1/4 IN. DIA. SHORT NIPPLE	ELEC-126 ELEC-138
SEO	EMERGENCY OFF	1	PROVIDE A SINGLE GANG, 2 1/8 IN. DEEP, FLUSH MTD. WALL BOX.	ELEC-126 ELEC-138
SKL	SYSTEMS CABINET	1	38 IN. OF GROMMET MATERIAL FOR 8 X 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
WBC1	OPERATORS CONSOLE	0	12 X 6 X 4 IN. BOX	ELEC-88 ELEC-84
WLS	CHEST UNIT	0	SPLIT COVERPLATE 2 1/2 IN. DIA. CHASE NIPPLE 1 1/8 IN. DIA. CHASE NIPPLE 5 X 6 X 4 IN. BOX WITH DIVIDER	ELEC-79
XRL1	WARNING LIGHT	1	SINGLE GANG BOX X-RAY DV INCANDESCENT LIGHT FIXTURE. 24V, 8 AMP DR. LESS LOW VOLTAGE SOURCE. DO NOT USE FLUORESCENT FIXTURES.	ELEC-72
XRLC	WARNING LIGHT CONTROLLER AVAILABLE FROM GEMSG, CALL 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	E4500RL WARNING LIGHT CONTROL OR EQUIVALENT MAX 24V CONTROLLER	ELEC-5 ELEC-6
XTS1	X-RAY TUBE HANGER	1	38 IN. OF GROMMET MATERIAL FOR 8 X 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6

**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
XRLC > 1 PHASE	1-ND. 14 BLACK, 1-ND. 14 GREEN
A > SEO	1-ND. 14 BLACK, 1-ND. 14 GREEN
SKL > XRLC	2-ND. 14 BLACK, 1-ND. 14 RED.
480-V > A	3-BLACK, 1-GREEN - REFER TO FEEDER TABLE
A > SKL	3-ND. 4 BLACK, 1-ND. 0 GREEN
XRL1 > XRLC	1-ND. 14 BLACK, 1-ND. 14 GREEN

**GE Healthcare Technologies**  
Installation Services Design Center  
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL LAYOUT  
MODALITY TYPE: REVOLUTION XR/d 2X  
THIS PLAN IS SUBMITTED TO SUBMITTER FOR REVIEW OF MECHANICAL EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT SPECIFICATIONS. IT IS NOT TO BE USED FOR CONSTRUCTION OF ANY EQUIPMENT WITHOUT THE COMPANY'S WRITTEN PERMISSION. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
1-1321f  
TYPICAL LAYOUT

PROJECT	REVISION
1-1321	04
DATE:	08-15-07
DRAWN BY:	SDB
CHECKED BY:	REK

REVISION HISTORY:


SHEET  
E1

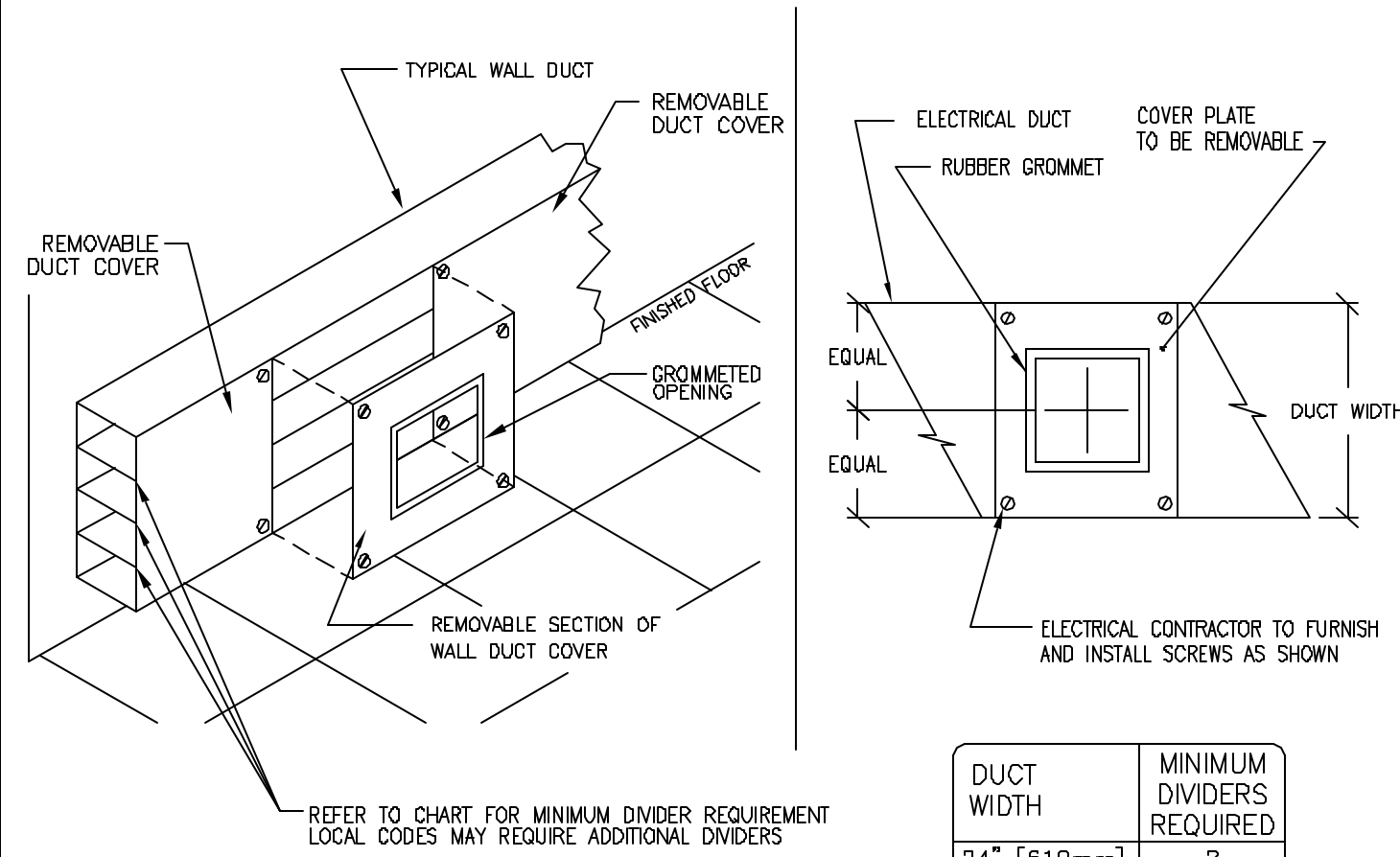
THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED



ELECTRICAL DETAIL  
HORIZONTAL WALL DUCT (TYPICAL)

ELEC-5

REV. DATE: 03/19/04

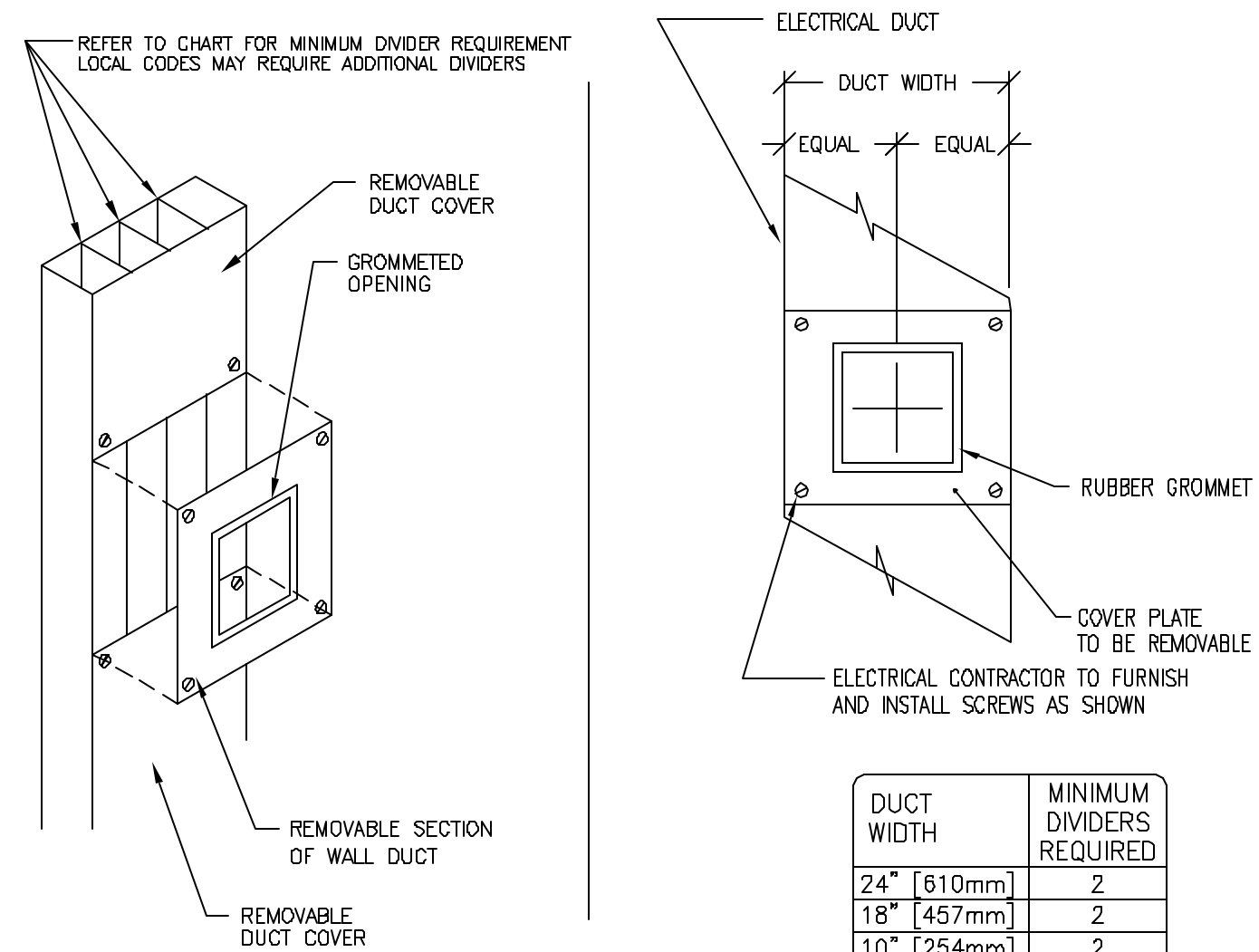


DETAIL NOT TO SCALE

ELECTRICAL DETAIL  
VERTICAL WALL DUCT (TYPICAL)

ELEC-6

REV. DATE: 03/19/04

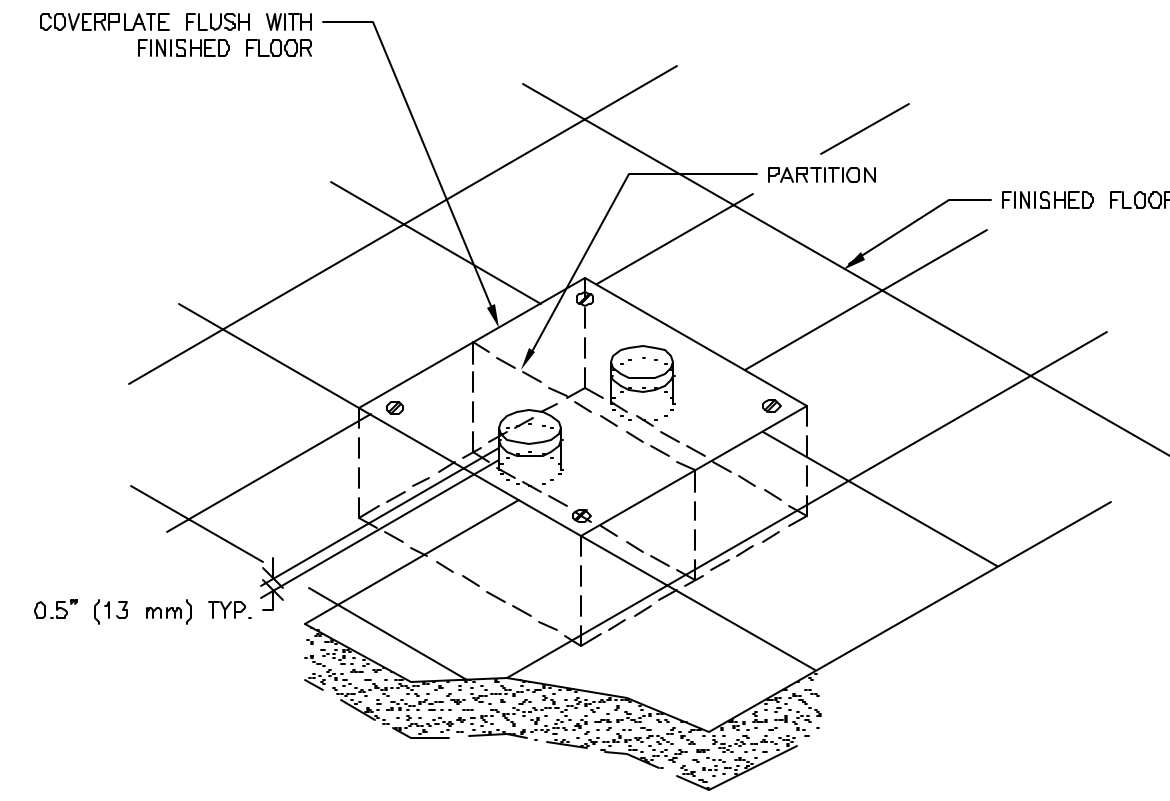


DETAIL NOT TO SCALE

ELECTRICAL DETAIL  
FLOOR BOX WITH NIPPLES (TYPICAL)

ELEC-13

REV. DATE: 09/30/94

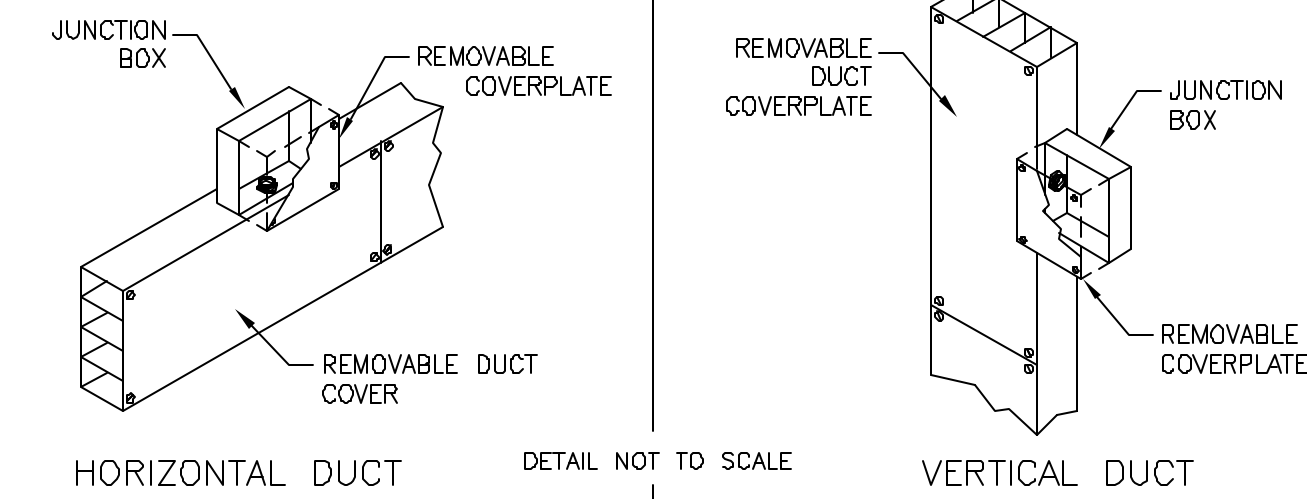
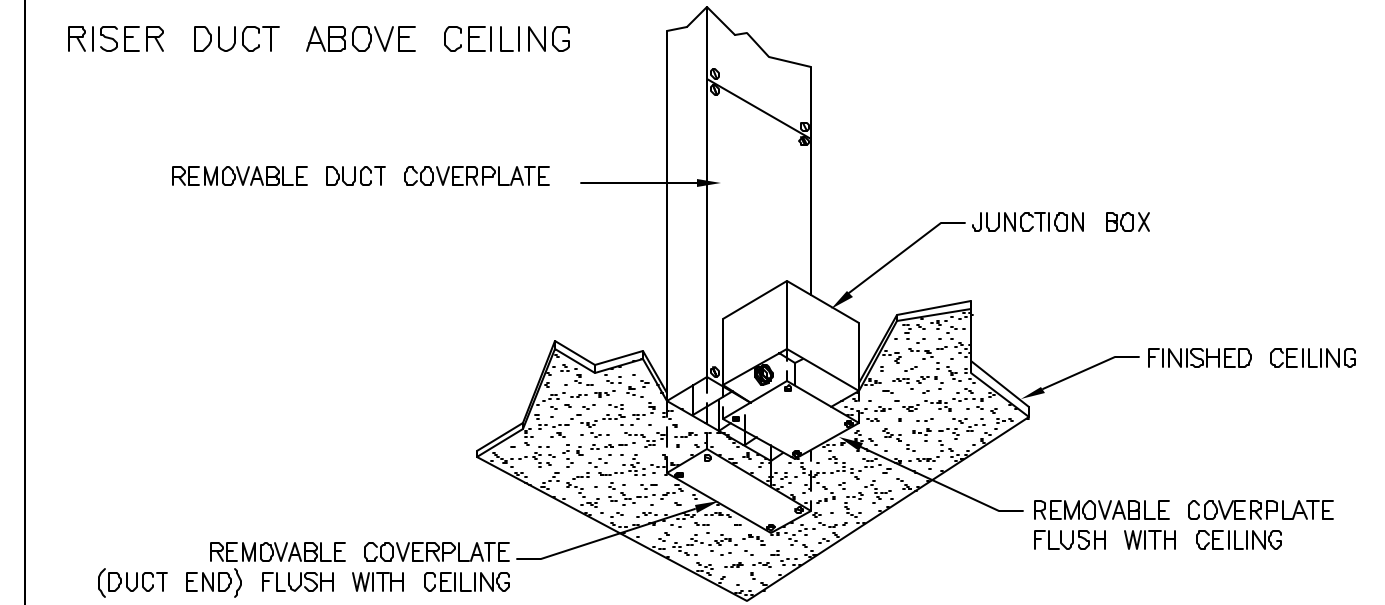


DETAIL NOT TO SCALE

ELECTRICAL DETAIL  
BOX ON DUCT (TYPICAL)

ELEC-28

REV. DATE: 04/09/98



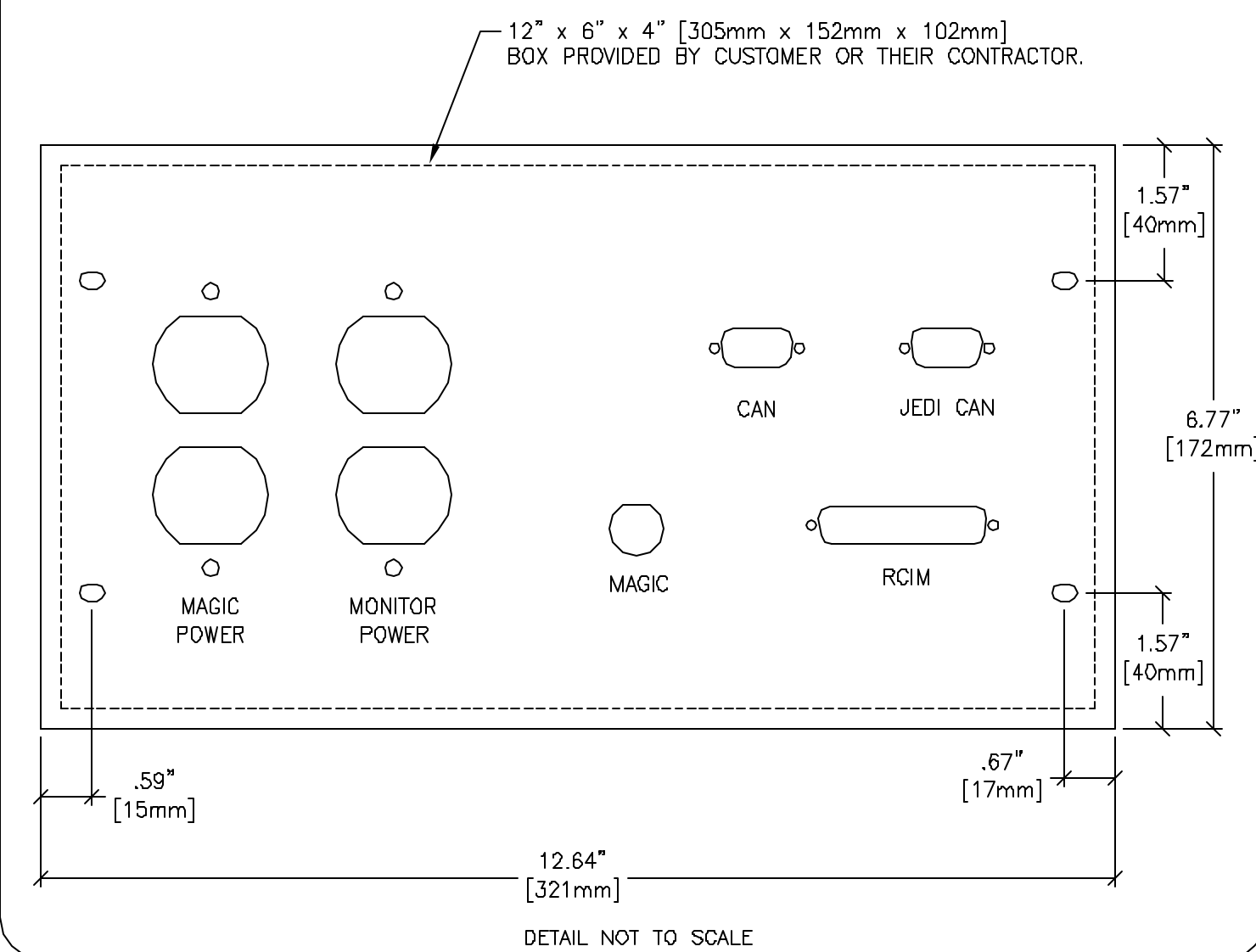
DETAIL NOT TO SCALE

DETAIL NOT TO SCALE

EQUIPMENT DETAIL  
WALL PLATE

ELEC-136

REV. DATE: 11/29/04

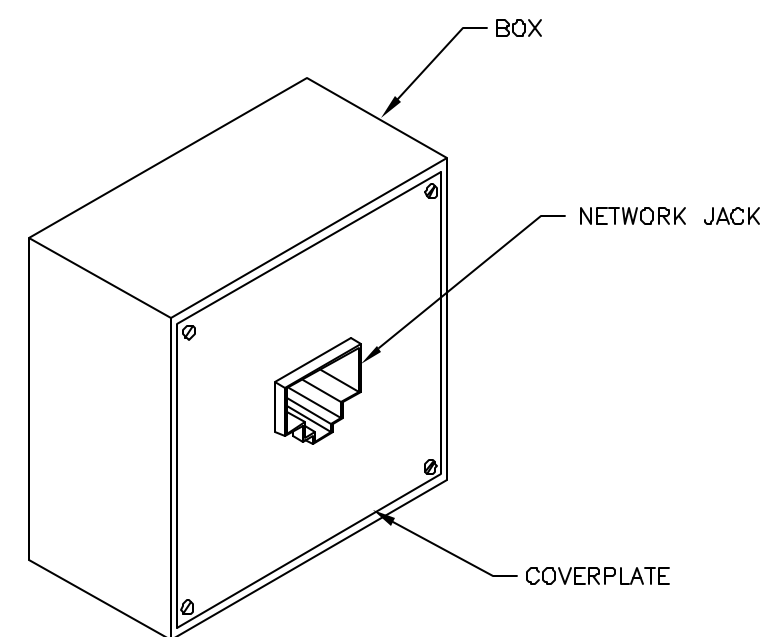


DETAIL NOT TO SCALE

ELECTRICAL DETAIL  
BOX WITH COVERPLATE AND NETWORK JACK

ELEC-83

REV. DATE: 10/06/98

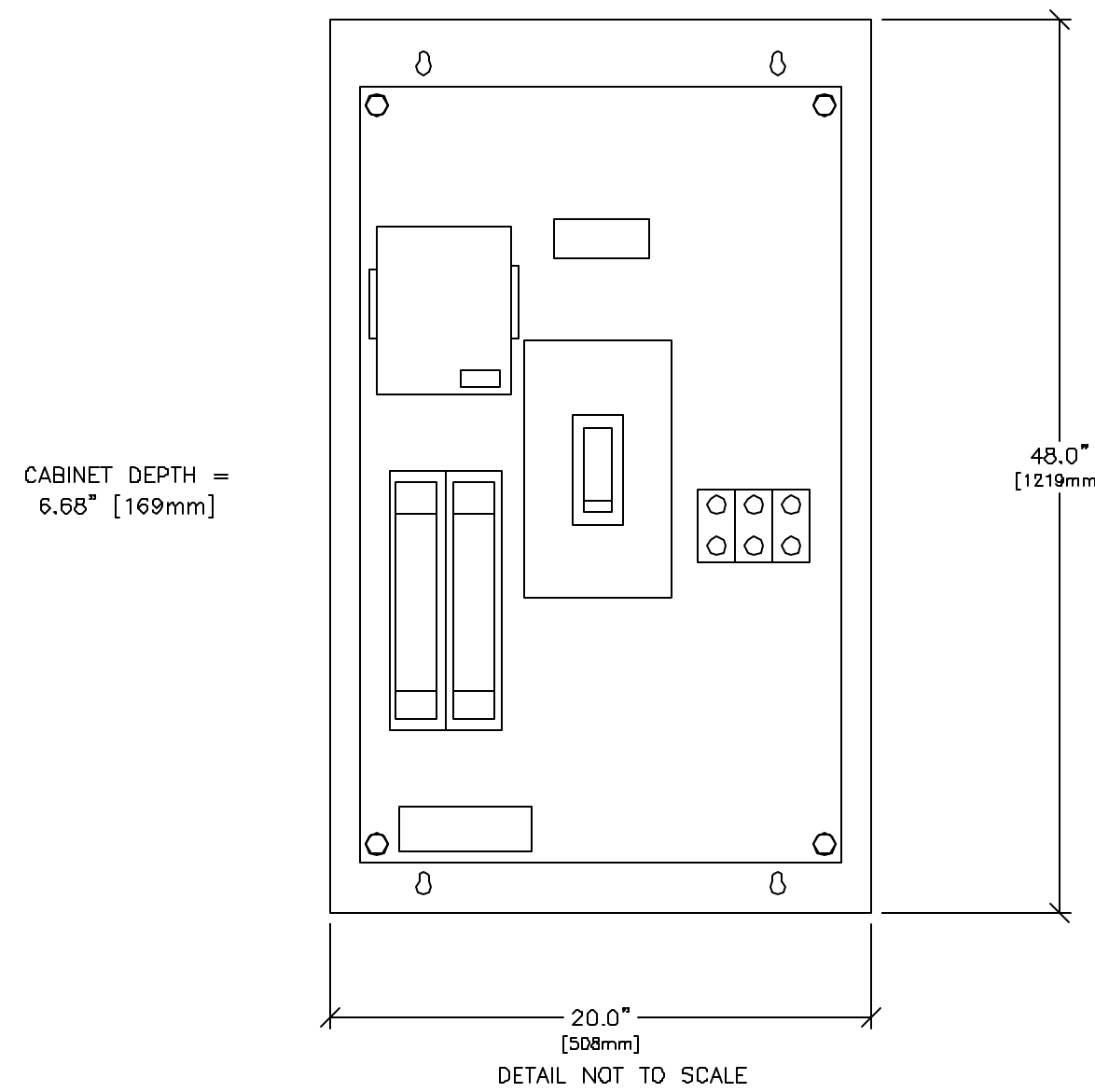


DETAIL NOT TO SCALE

ELECTRICAL DETAIL  
X-RAY MAIN DISCONNECT PANEL

ELEC-15

REV. DATE: 01/25/07

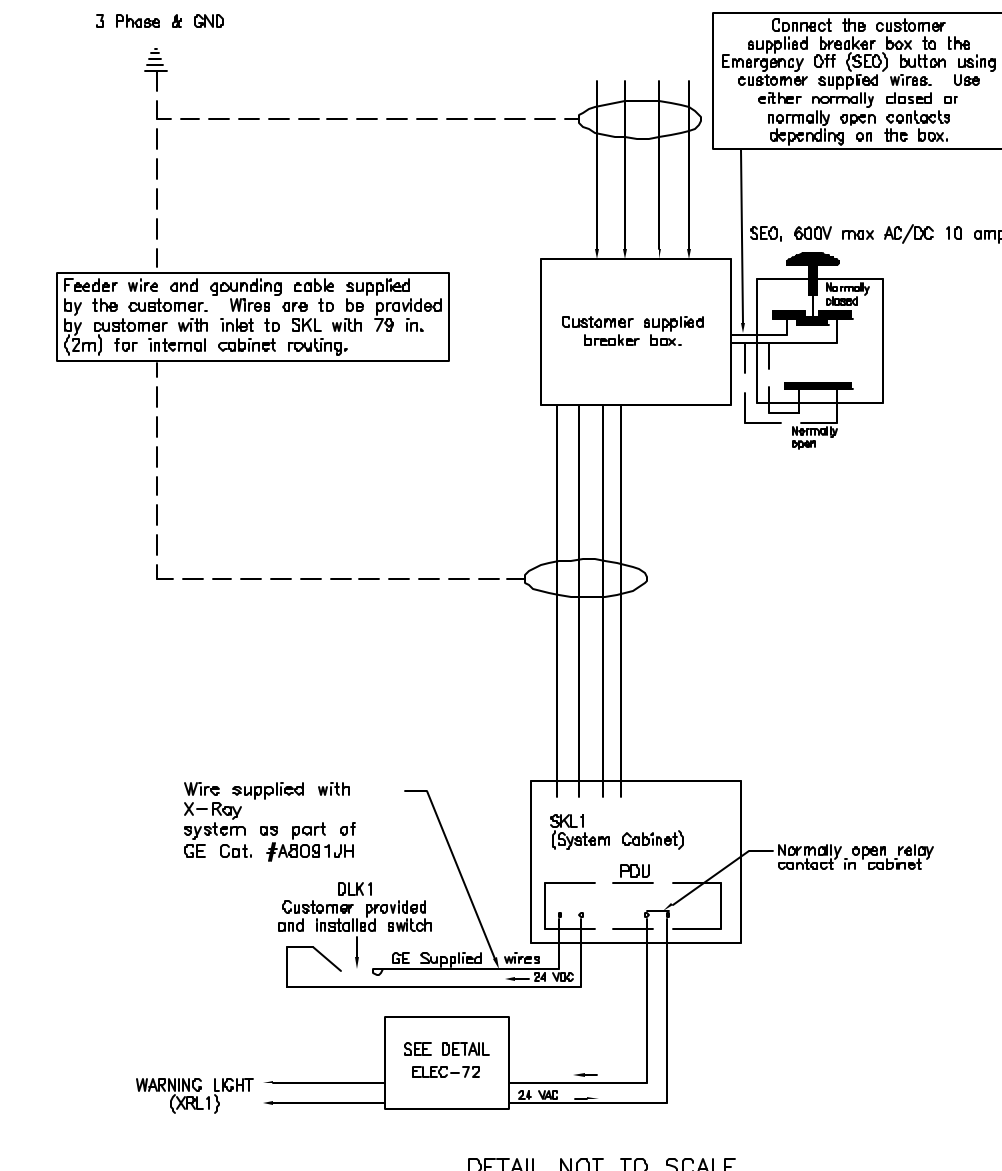


DETAIL NOT TO SCALE

ELECTRICAL DETAIL  
ROOM POWER SUPPLY

ELEC-138

REV. DATE: 09-20-05

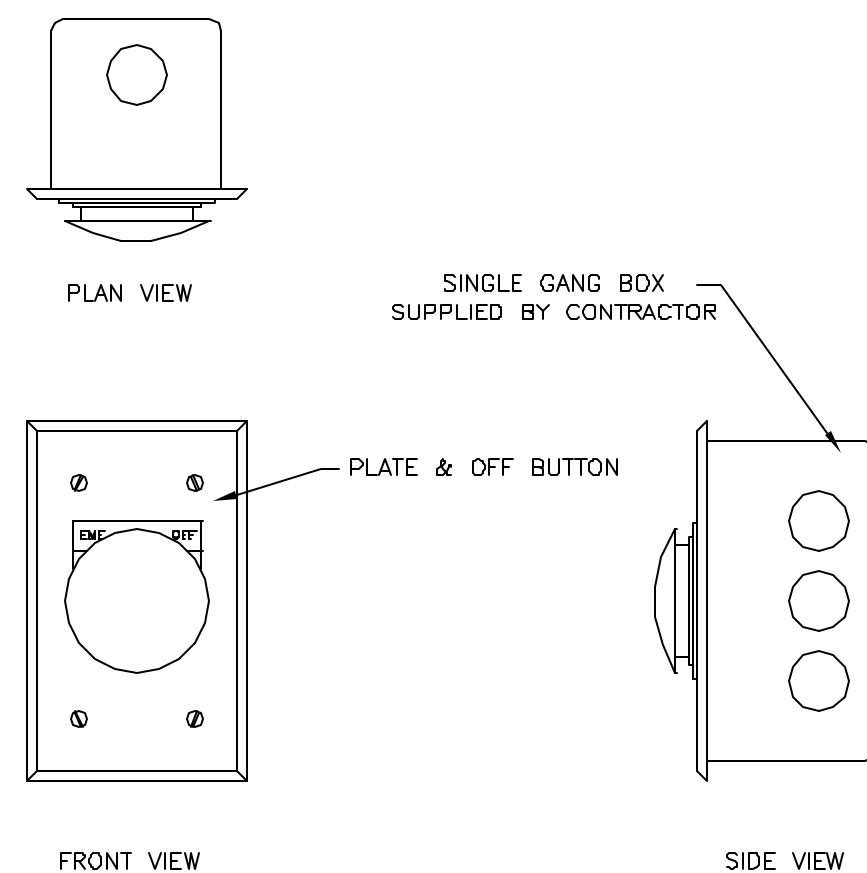


DETAIL NOT TO SCALE

ELECTRICAL DETAIL  
EMERGENCY DISCONNECT

ELEC-126

REV. DATE: 08/26/03

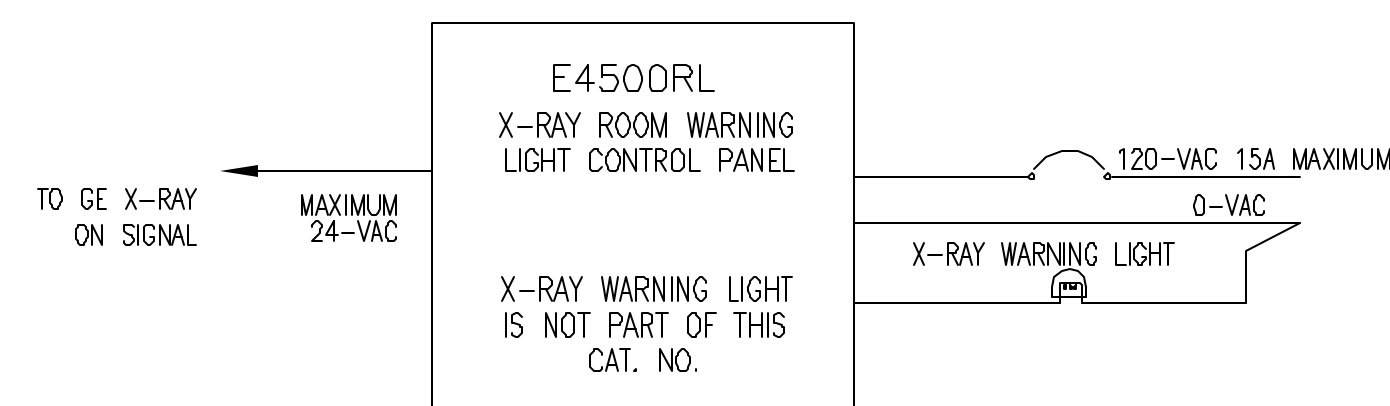


DETAIL NOT TO SCALE

ELECTRICAL DETAIL  
WARNING LIGHT DIAGRAM

ELEC-72

REV. DATE: 08/13/07



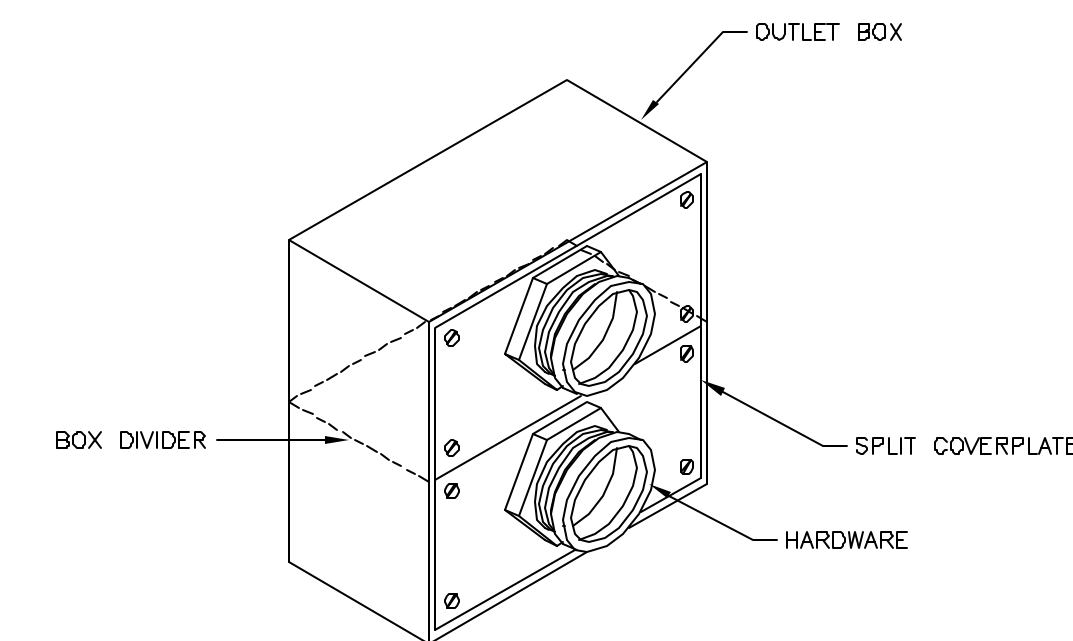
UNLESS SPECIFIED ON SHEET A1 AS BEING INCLUDED ON EQUIPMENT ORDER, ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER'S CONTRACTOR

DRAWING NOT TO SCALE

ELECTRICAL DETAIL  
BOX WITH DIVIDER AND SPLIT COVERPLATE (TYPICAL)

ELEC-79

REV. DATE: 04/06/04

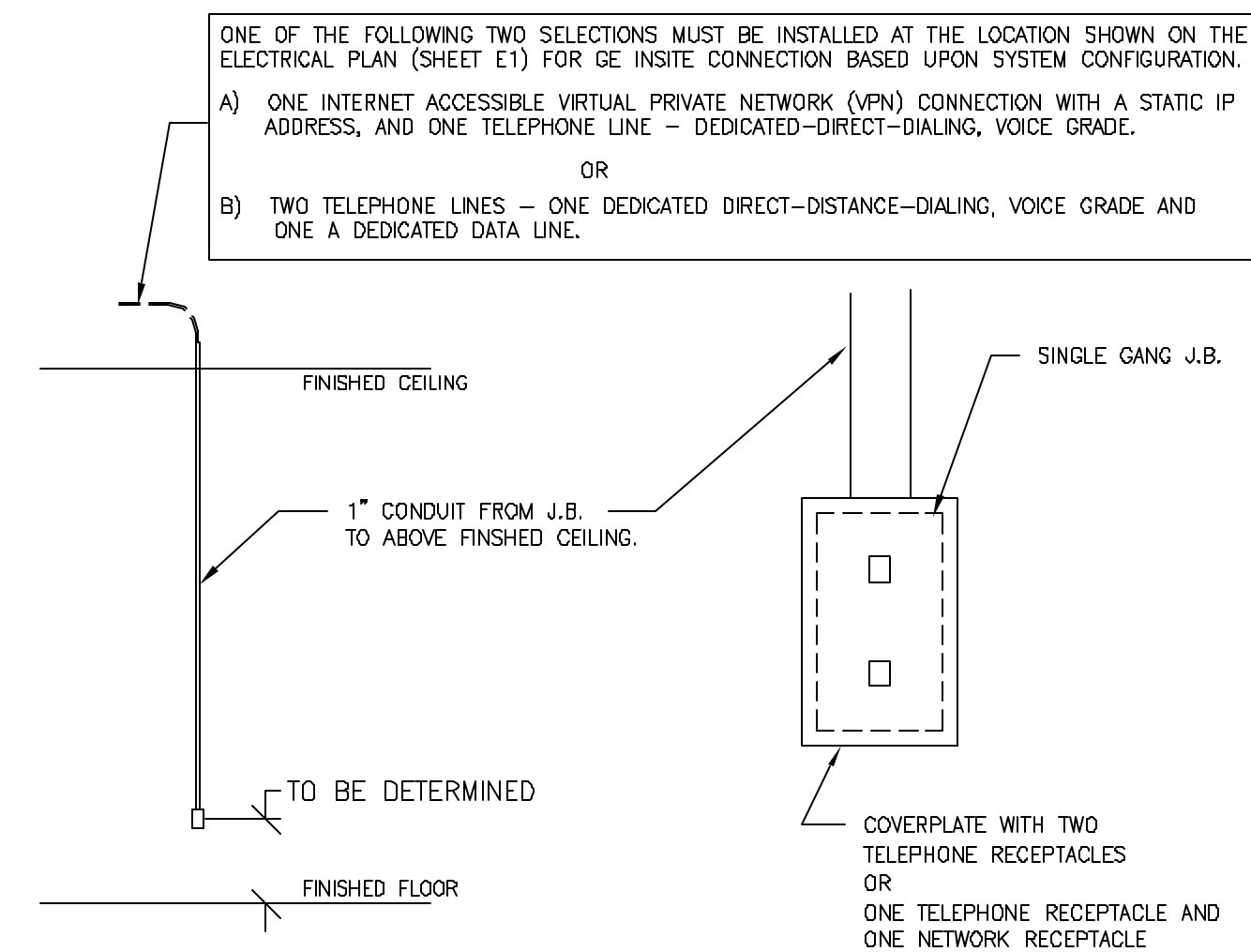


DETAIL NOT TO SCALE

ELECTRICAL DETAIL  
INSITE CONNECTION (TYPICAL)

ELEC-1

REV. DATE: 04/24/02



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

DETAIL NOT TO SCALE

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

SHEET TITLE: ELECTRICAL DETAILS  
MODALITY TYPE: REVOLUTION XR/d 2X

PROJECT TITLE:  
1-132f  
TYPICAL LAYOUT

PROJECT	REVISION
1-132f	04

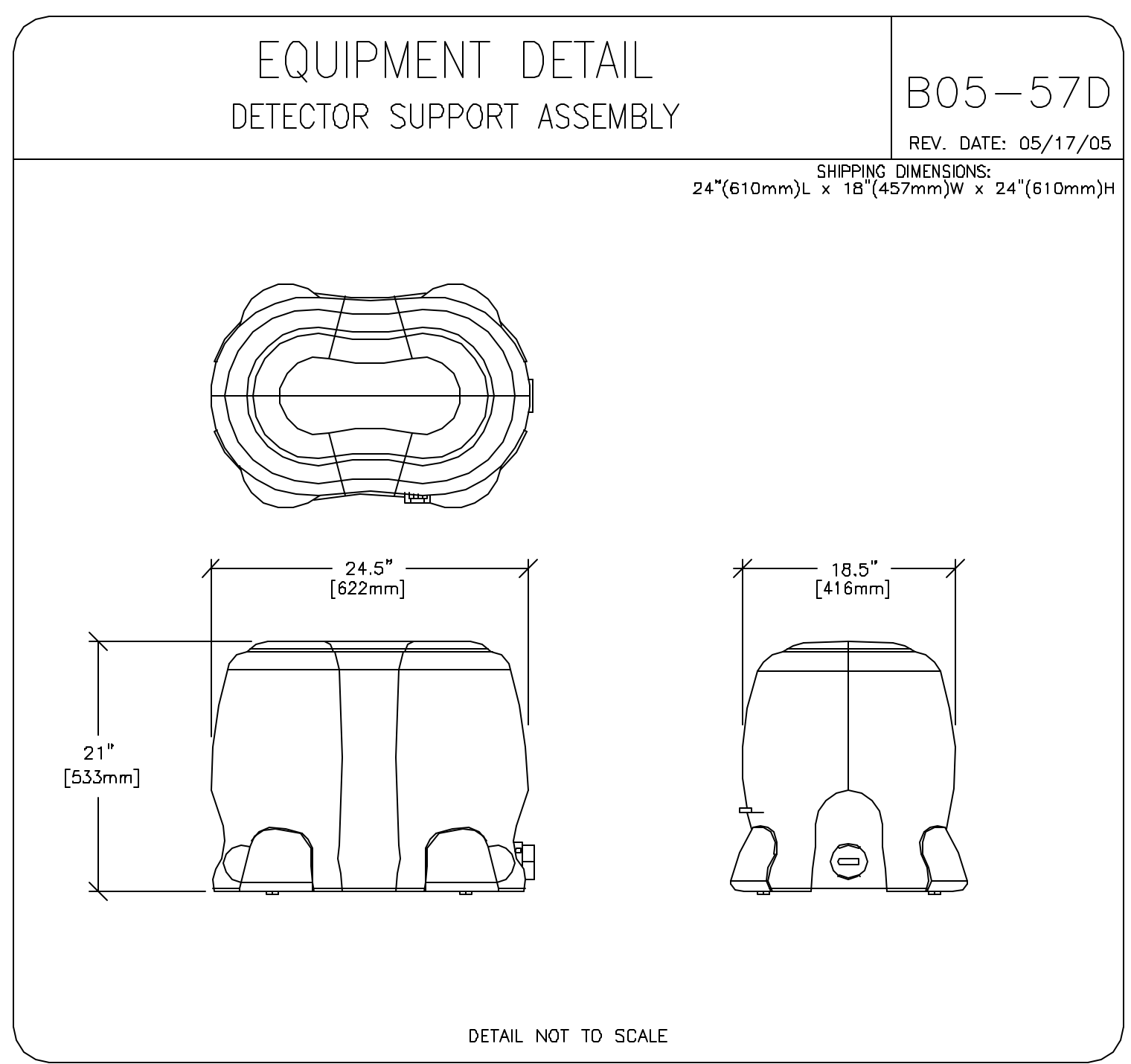
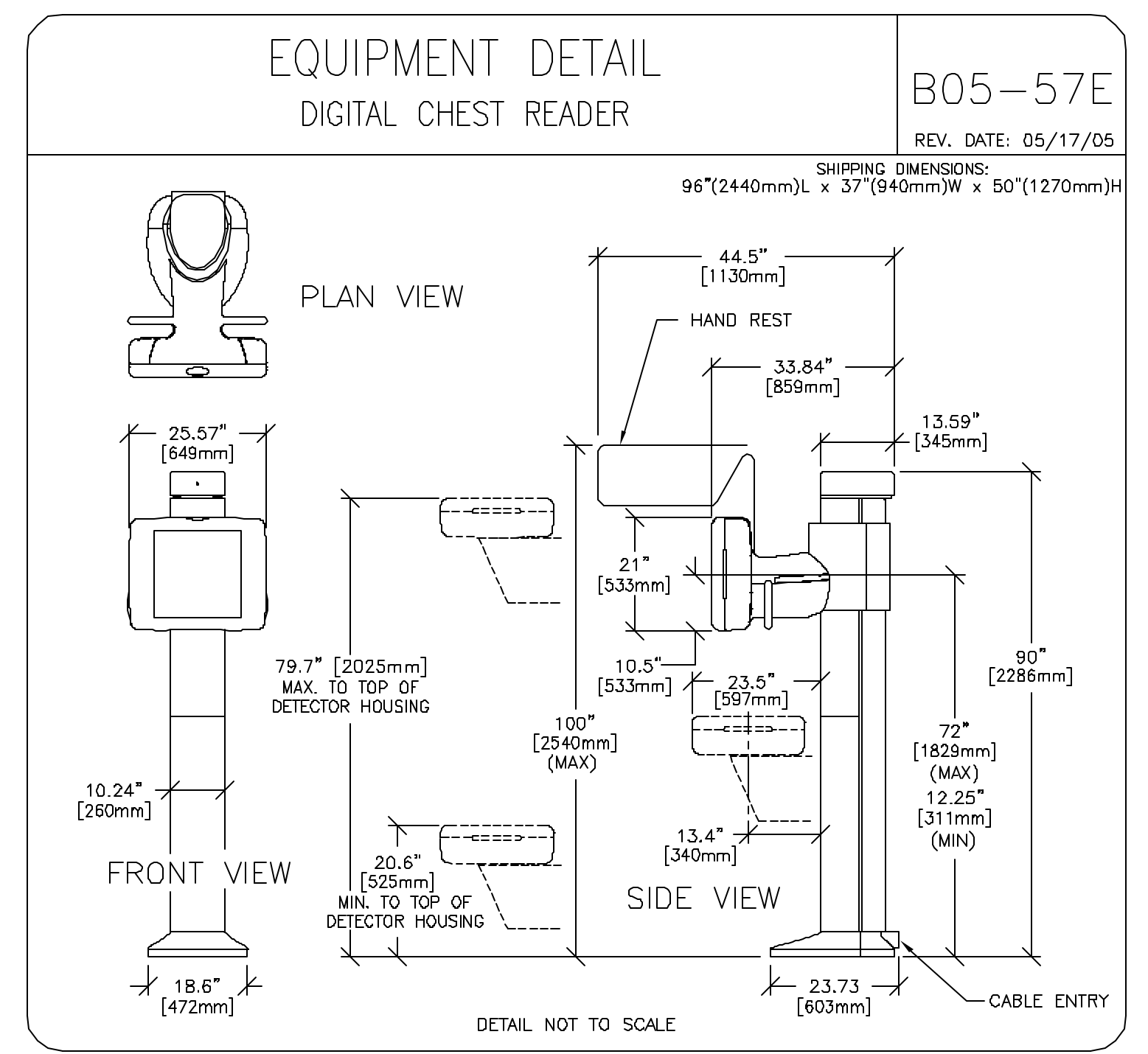
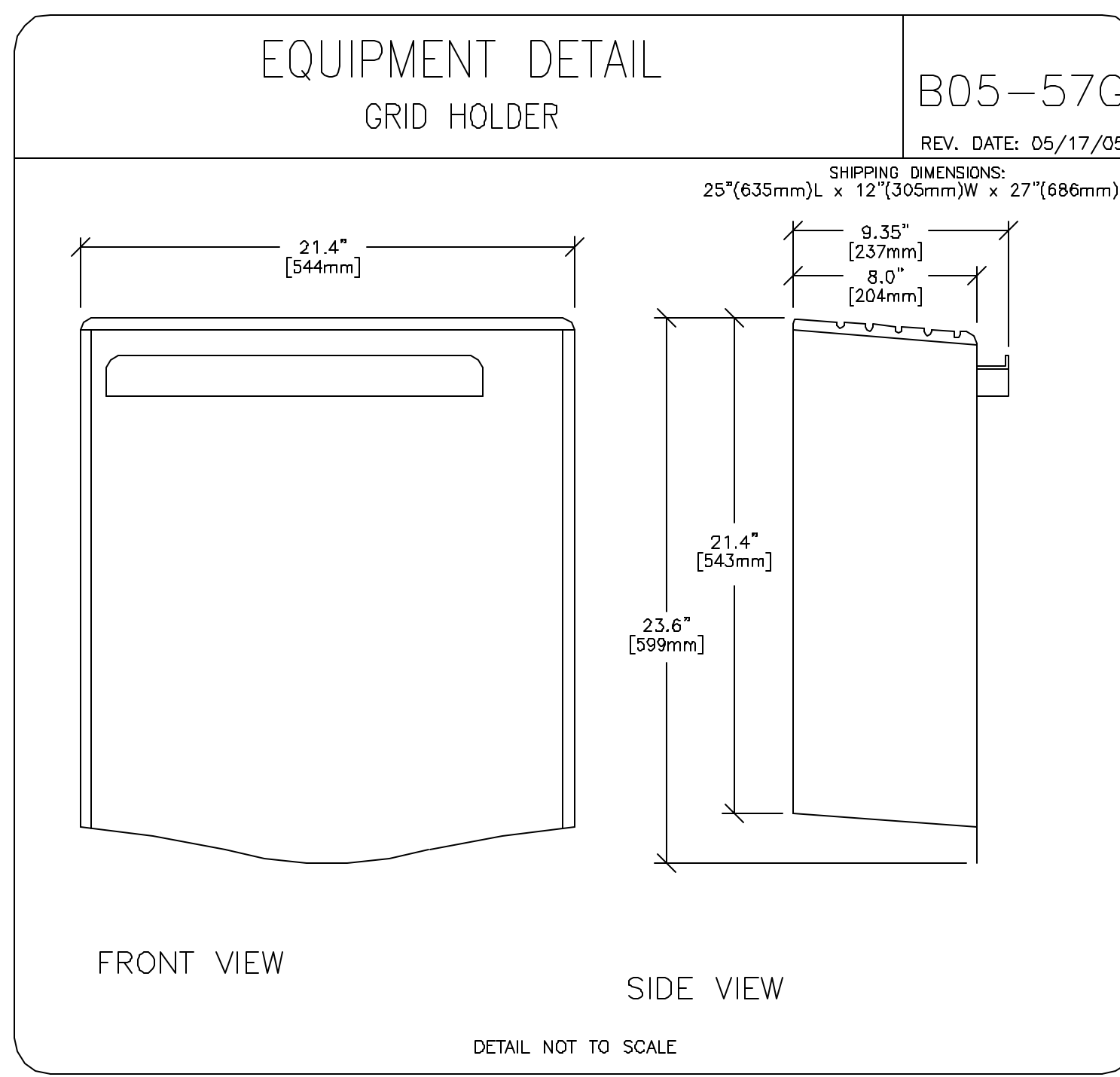
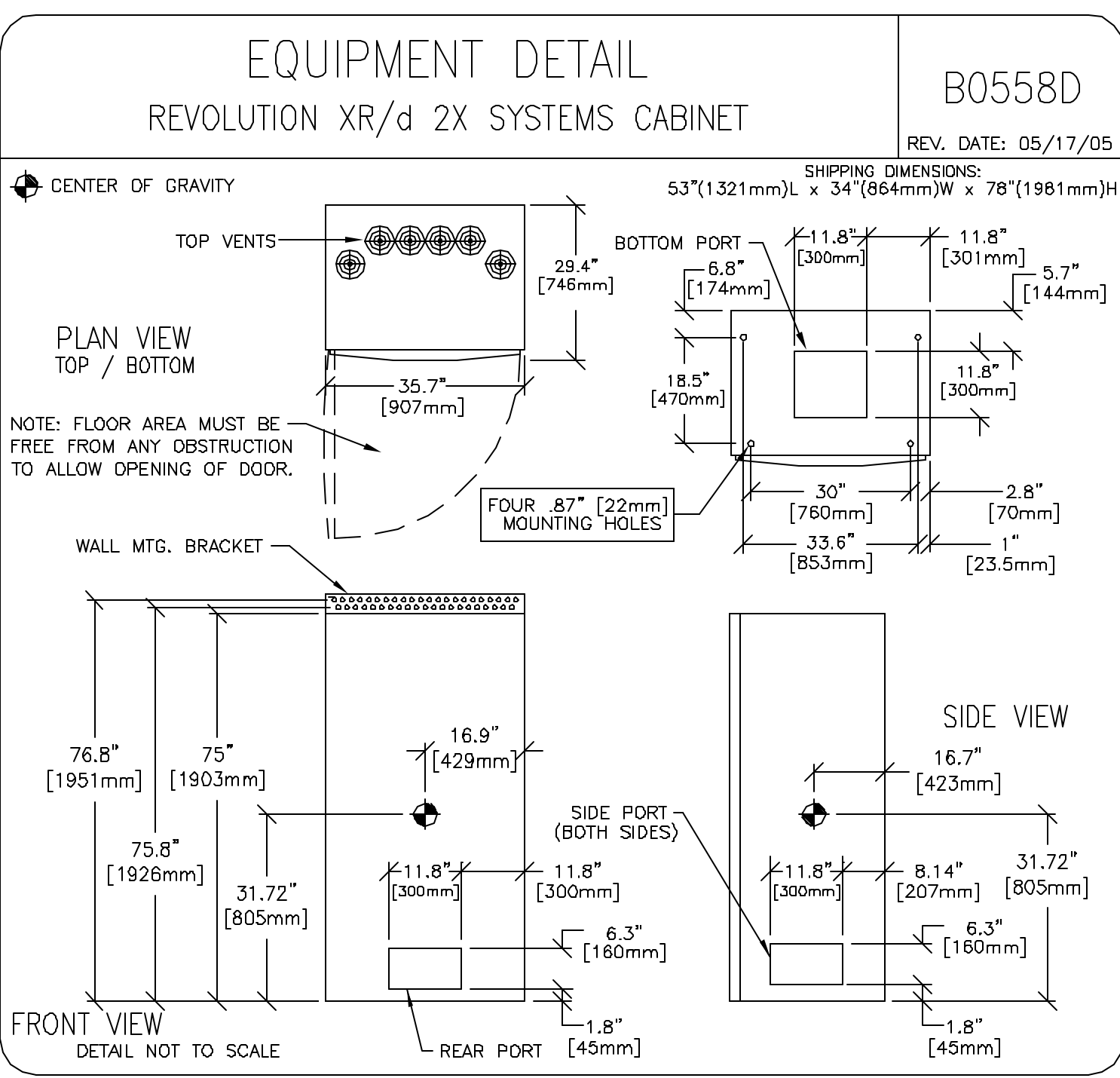
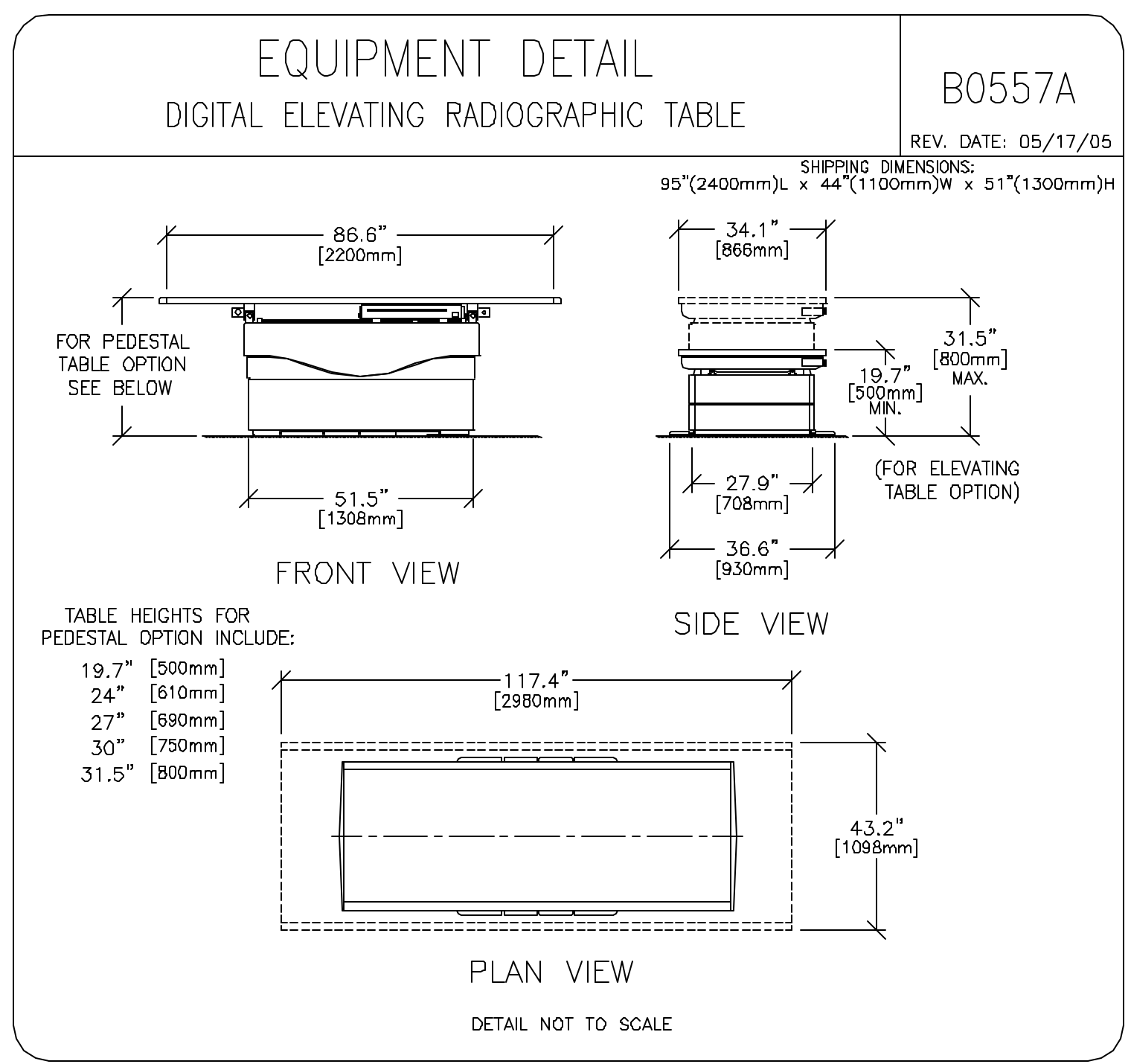
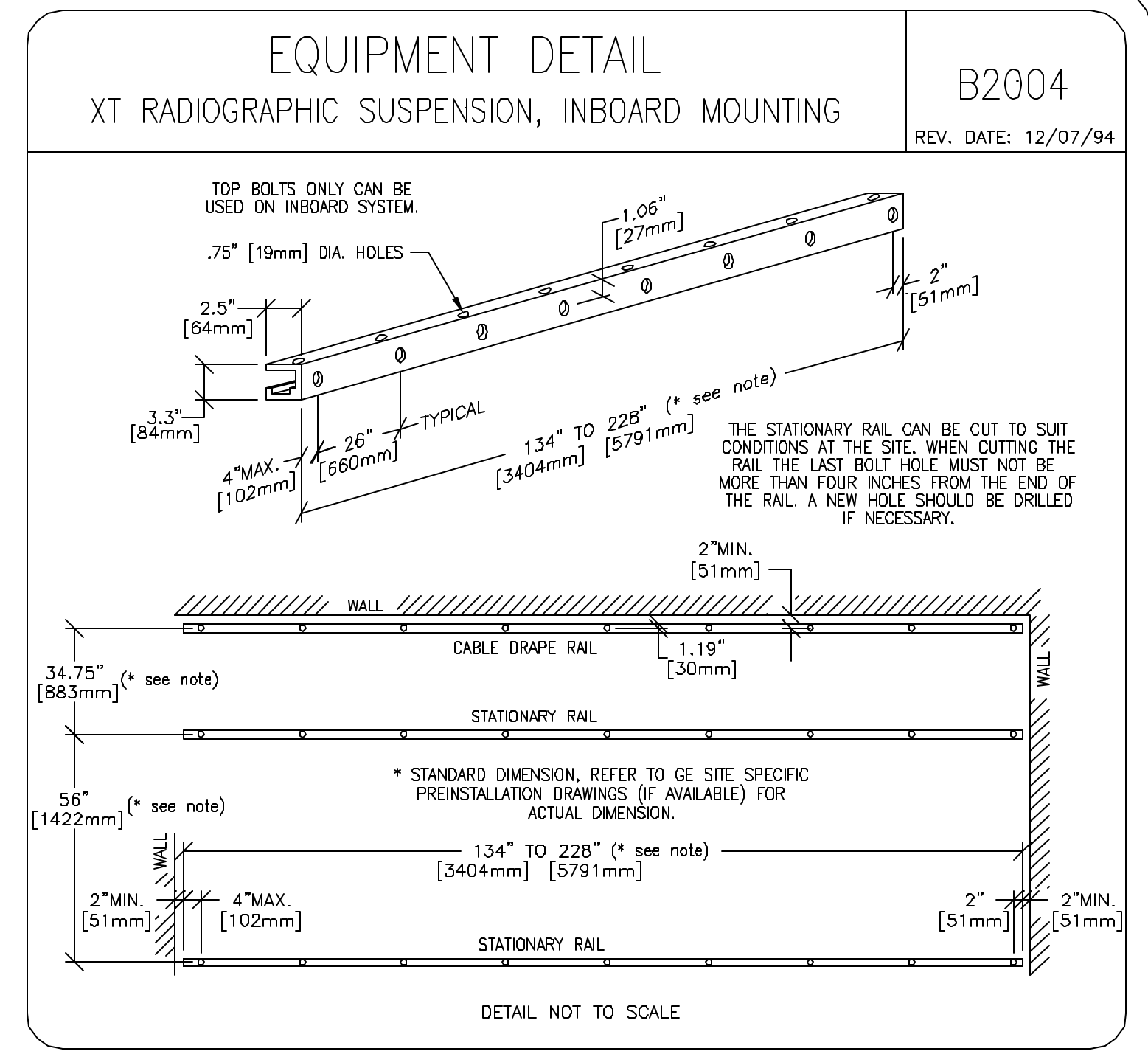
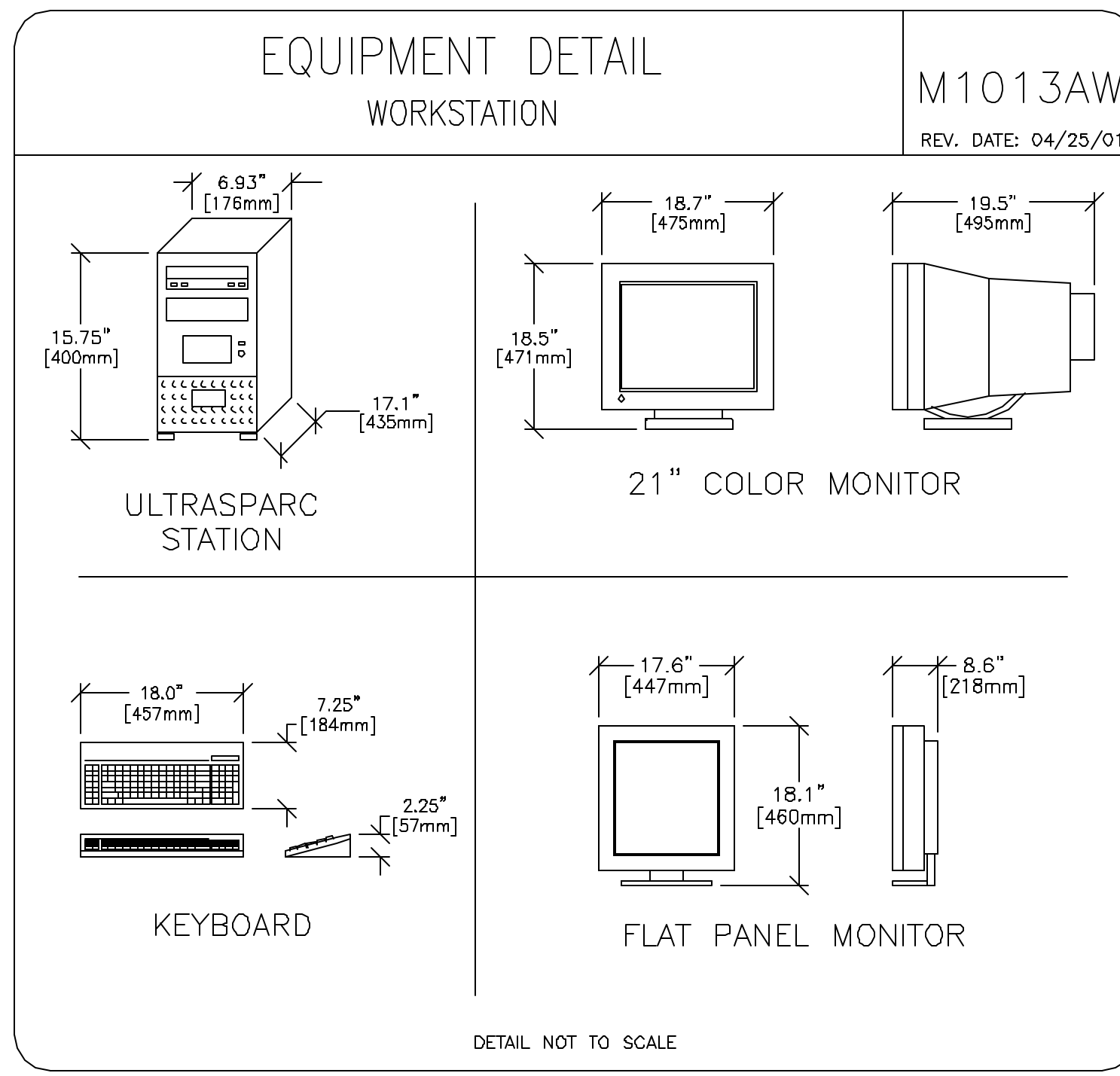
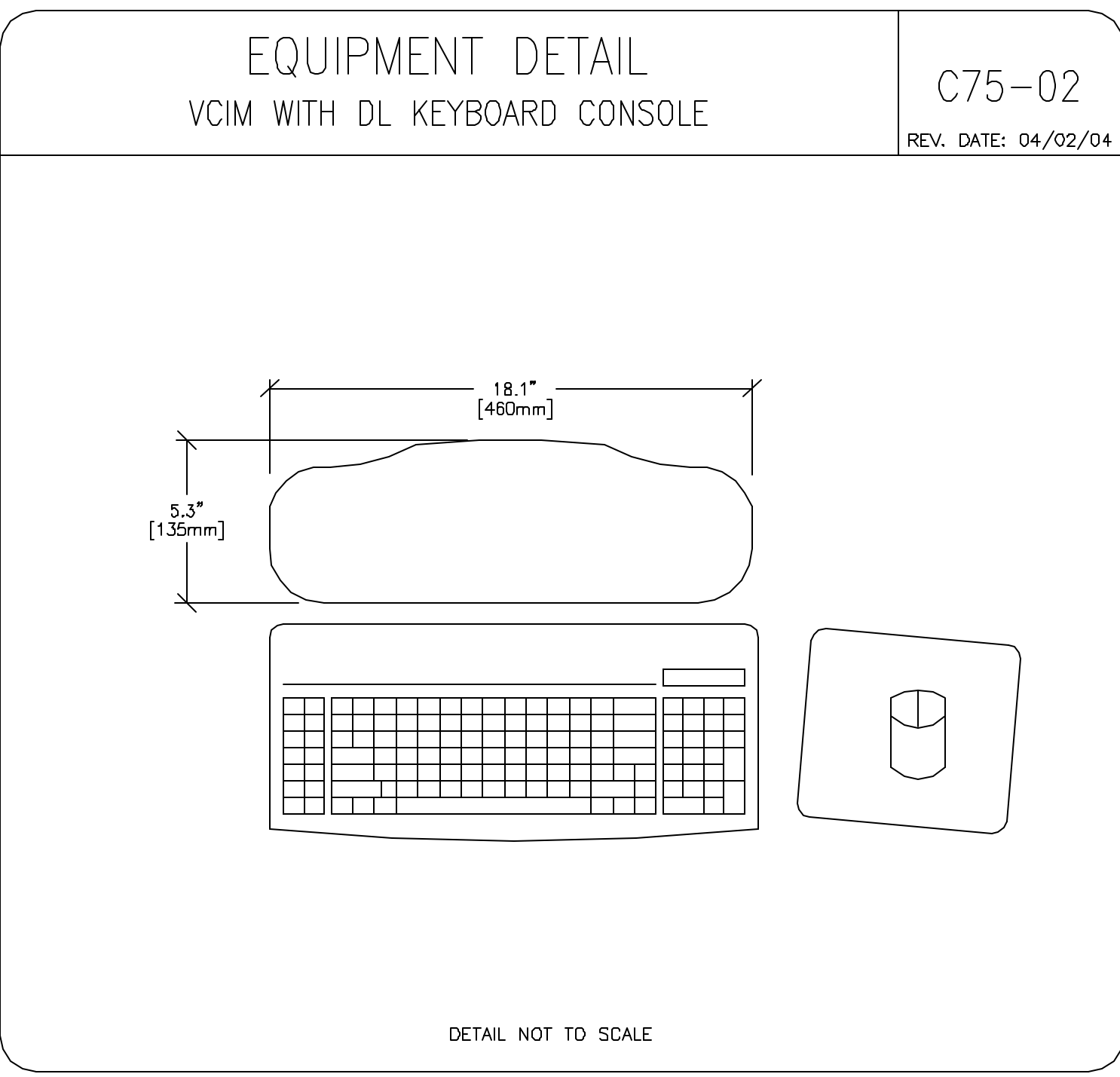
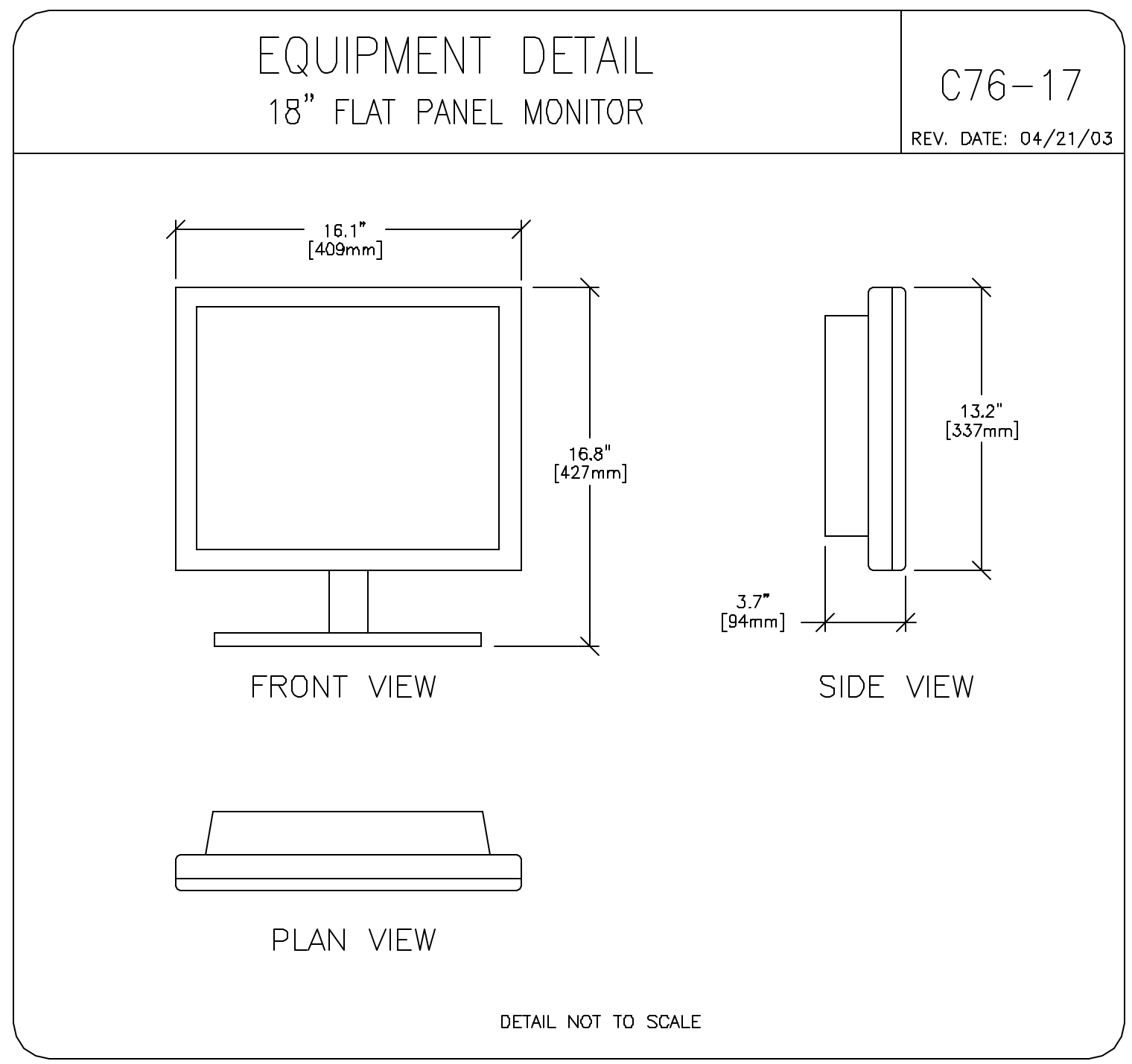
DATE: 08-15-07  
DRAWN BY: SDB  
CHECKED BY: REK

REVISION HISTORY:


SHEET  
E3

NFSH-1002

**GE Healthcare Technologies**  
Installation Services Design Center  
Milwaukee, Wisconsin



**GE Healthcare Technologies**  
Installation Services Design Center  
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT DETAILS  
MODALITY TYPE: REVOLUTION XR/d 2X

THIS PLAN IS SUBMITTED TO SUBMITTER FOR REVIEW OF THE GENERAL REQUIREMENTS AND ASSOCIATED ELECTRICAL, MECHANICAL, PIPING, AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO THE ACTUAL EQUIPMENT DIMENSIONS. IF ANY DISCREPANCY IS NOTED, IT IS NOT TO BE USED FOR CONSTRUCTION. THE COMPANY ASSUMES NO LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
1-132f  
TYPICAL LAYOUT

PROJECT	REVISION
1-132f	04
DATE:	08-15-07
DRAWN BY:	SDB
CHECKED BY:	REK

REVISION HISTORY:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SHEET  
D1