

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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* REQUIRED REFERENCE *

Innova 3100-4100
Preinstallation Manual
5160944

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 # : _____			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 #	Inspection Date	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 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 PIM 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 PIM 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: INNOVA 3100/ 4100
THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, THE INSTALLER HAS BEEN MADE AWARE OF THE REQUIREMENTS FOR ACTUAL CONSTRUCTION PURPOSES, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
TYPICAL SPECIAL PROCEDURES 4-58F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
4-58f	02
DATE:	10-08-07
DRAWN BY:	LLM
CHECKED BY:	TST

REVISION HISTORY:

SHEET
C1

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

EQUIPMENT LAYOUT

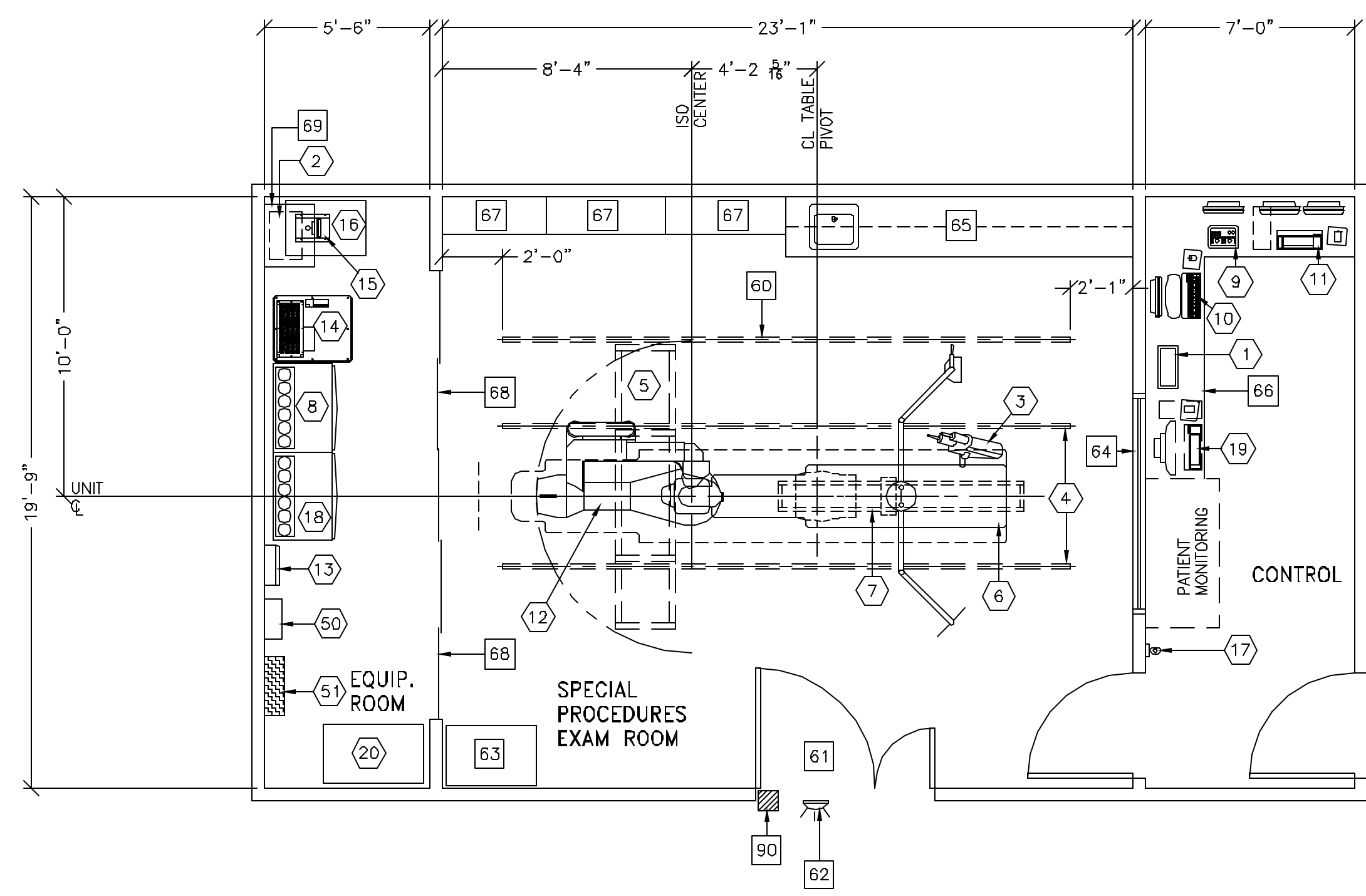
RECOMMENDED CEILING HEIGHT = 9'-6"

GE EQUIPMENT LISTING

ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN	EQUIPMENT CROSS REFERENCE CHART
1	4		REMOTE CONTROL FOR INJECTOR (OPTION)	4 lbs		B5028		IEC	S
2	1		INJECTOR ELECTRONICS (OPTION)	37 lbs	320 btu	B5028		IE	S
3	1		INJECTOR HEAD ON TABLE RAIL (OPTION)	15 lbs		B5030A		IH	S
4	2		LONGITUDINAL STATIONARY RAIL FOR XT SUSPENSION	68 lbs			B20 041		C
5	1		SIX LCD MONITOR SUSPENSION ON 9 FT. 6 IN. XT INBOARD BRIDGE	557 lbs	1228 btu	B2004 B2010A		WBM1	C
6	1		OMEGA IV/V TABLE WITH ROTATING TOP	1300 lbs	600 btu		B50 49N	LUS	C
7	1		COUNTERBALANCED EYE AND THYROID SHIELD WITH LAMP (OPTION)	167 lbs	150 btu	B2064	B20 64B	LMP	S
8	1		ATLAS CABINET (C2)	568 lbs	1825 btu	B0558C		S100 C2	C
9	1		CONTROL ROOM MONITOR WITH DL KEYPAD	19 lbs	204 btu	C7412H C7617			S
10	1		OPERATORS CONSOLE	19 lbs	399 btu	C7617 C7502 B5050C		WBC1	C
11	1		AV WORKSTATION	81 lbs	1201 btu	C7617 M1013AV			C
12	1		INNOVA POSITIONER (REFERENCE TABLE BASE-PLATE DETAIL FOR FLOOR MOUNTING INFORMATION)	1653 lbs	2416 btu	B5050A B5050B B5050		LC1	C
13	1		UPS INTERFACE BOX			E45021B		UIB	-
14	1		UPS CABINET	1170 lbs	6750 btu	E45025C		UPS	-
15	1		DETECTOR CHILLER	33 lbs	706 btu	B5049F		DC	S
16	1		WATER CHILLER	449 lbs	18716 btu	M0917B		CHLR	C
17	1		BOLUS CHASE HANDSWITCH (OPTION)	2 lbs				WBC	-
18	1		ATLAS CABINET (C1)	998 lbs	3389 btu	B0558C		S100 C1	C
19	1		IYUS VOLCANO READY KIT						
20	1		JEDI GENERATOR CART	50 lbs					

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

20	1		FILTER ENCLOSURE	90 lbs		S1875PC		FE	-
63	1		INNOVA MAIN DISCONNECT, REFERENCE JUNCTION POINT "A" ON SHEET E1 FOR DETAILED DESCRIPTION.	275 lbs	1532 btu	E4502AB		A	-



ANCILLARY ITEMS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	CABLE DRAPE RAIL, CAT. NO. CPG55 OR EQUIVALENT. CONTACT UNISTRUT WISCONSIN, 262-796-8710
61	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 44 IN. W X 89 IN. H (118mm X 230mm). CONTINGENT ON A 96 IN. (2438mm) CORRIDOR WIDTH
62	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL 1-800-200-9760 GE CAT. NO. XWLABW-OF-XIU
63	CUSTOMER SUPPLIED STORAGE CABINET
64	CONTROL WALL TO CEILING WITH LEAD GLASS VIEWING WINDOW.
65	COUNTER TOP WITH SINK, BASE AND WALL CABINETS
66	COUNTER TOP FOR EQUIPMENT-SHELVING MAY BE REQUIRED. PROVIDE DIMENSIONED OPENINGS AS REQUIRED TO ROUTE INTERCONNECT CABLES TO RACEWAY BELOW COUNTERTOP.
67	CATHETER CABINETS
68	SLIDING EQUIPMENT ROOM DOORS
69	SHELF FOR EQUIPMENT

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/ROOM LIGHTING CONTROL PANEL. REFERENCE JUNCTION POINT "XRLC" ON SHEET "E1" FOR DETAILED DESCRIPTION -CAT. NO. E4500SS FOR WARNING LIGHT & ROOM LIGHT CONTROL.
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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

- EQUIPMENT ROOM AMBIENT OPERATING TEMPERATURE: 55 TO 75 DEGREES (F), WITH 20% - 75% HUMIDITY.
- EXAM ROOM AMBIENT OPERATING TEMPERATURE: 55 TO 75 DEGREES (F), MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 15 DEGREES (F)/HOUR, HUMIDITY: 10% - 70%
- CONTROL ROOM AMBIENT OPERATING TEMPERATURE: 59 TO 75 DEGREES (F), MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 15 DEGREES (F)/HOUR, HUMIDITY: 30% - 80%
- ALTITUDE: NOT TO EXCEED 8,000 FT. ABOVE SEA LEVEL.
- 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: INNOVA 3100/ 4100

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PROJECT TITLE:
TYPICAL SPECIAL PROCEDURES 4-58F
 TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
4-58f	02

DATE: 10-08-07
 DRAWN BY: LLM
 CHECKED BY: TST

REVISION HISTORY:

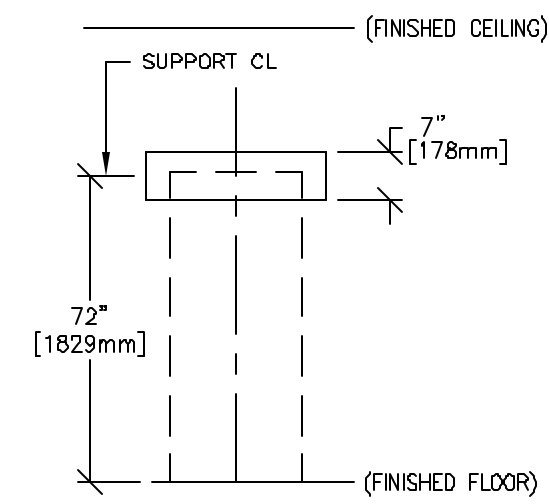
SCALE: 1/4" = 1'-0"

STRUCTURAL LAYOUT

RECOMMENDED CEILING HEIGHT = 9'-6"

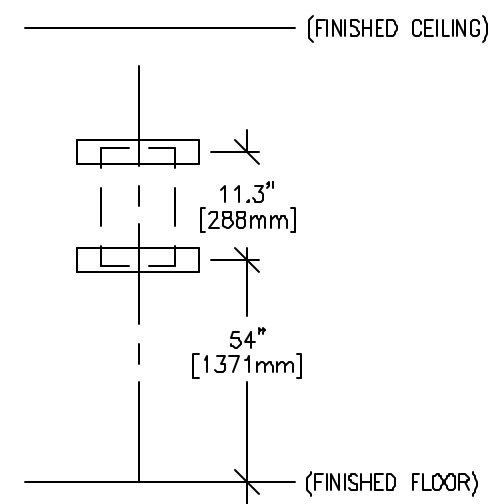
TYPICAL WALL SUPPORT ELEVATIONS

S100



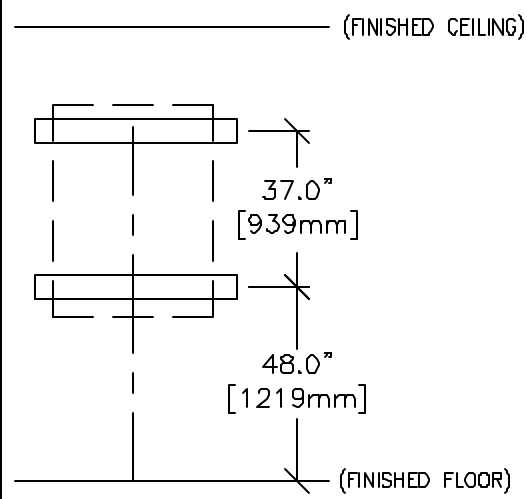
SUPPORT FOR ATLAS/SYSTEMS CABINET (NOT TO SCALE)

S115



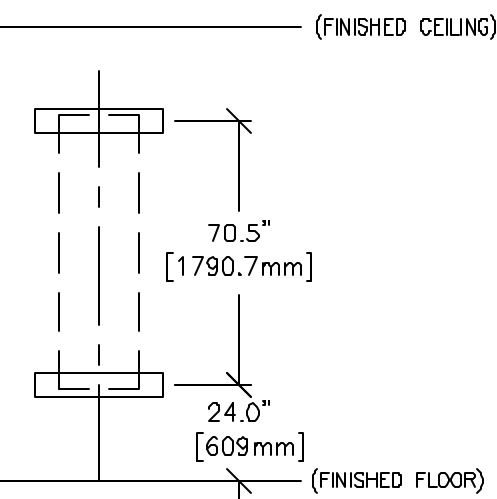
SUPPORT FOR UPS INTERFACE BOX (NOT TO SCALE)

S118

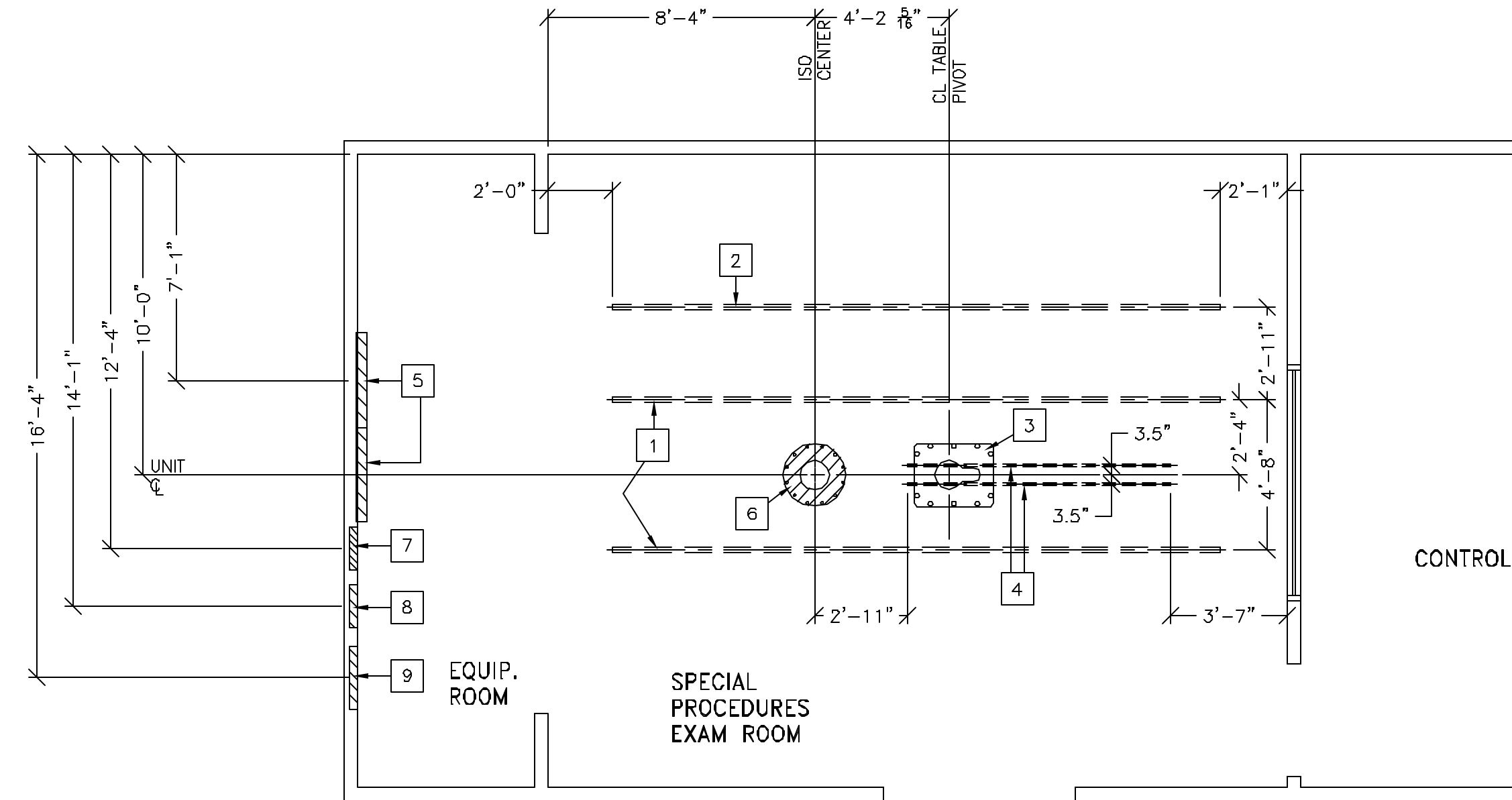


SUPPORT FOR INNOVA FILTER ENCLOSURE (NOT TO SCALE)

S119



SUPPORT FOR MAIN DISCONNECT CONTROL (NOT TO SCALE)



STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	UNISTRUT OR EQUIVALENT SUPPORT IN CEILING FOR FASTENING CEILING SUPPORTED EQUIPMENT. 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'-2" AND REQUIRE 350 LBS. (997 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.
2	>>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'-2" 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.
3	AREA OCCUPIED BY GE SUPPLIED TABLE BASEPLATE
4	UNISTRUT OR EQUIVALENT SUPPORTS FOR FASTENING THE OVERHEAD COUNTERDISC SUSPENSION. SUPPORT TO BE LOCATED AS SHOWN. SUPPORT SHOULD RUN CONTINUOUS WITH NO FITTINGS EXTENDING BELOW FACE OF UNISTRUT CHANNEL. BE PARALLEL SQUARE, AND IN THE SAME HORIZONTAL PLANE. FLUSH WITH FINISHED CEILING SUSPENSION REQUIRES 100 LB/BOLT SUPPORT. METHODS OF SUPPORT THAT WILL PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE CONSTRUCTION SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION.
5	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S100, FOR ATLAS CABINET.
6	AREA OCCUPIED BY GE SUPPLIED POSITIONER BASEPLATE
7	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S115, FOR UPS INTERFACE BOX.
8	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S118, FOR FILTER ENCLOSURE.
9	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S119, FOR MAIN DISCONNECT CONTROL.

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 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.

GE Healthcare Technologies
 Installation Services Design Center
 Milwaukee, Wisconsin

SHEET TITLE: STRUCTURAL LAYOUT
 MODALITY TYPE: INNOVA 3100/ 4100
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TYPICAL SPECIAL PROCEDURES 4-58F
 TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
4-58f	02
DATE:	10-08-07
DRAWN BY:	LLM
CHECKED BY:	TST

REVISION HISTORY:

SHEET
S1

SUPPORT DETAIL

XT RADIOGRAPHIC SUSPENSION, INBOARD MOUNTING

B20-041
REV. DATE: 01/23/07

DETAIL NOT TO SCALE

SUPPORT DETAIL

XT RADIOGRAPHIC SUSPENSION, INBOARD MOUNTING

B20-042
REV. DATE: 08/09/05

DETAIL NOT TO SCALE

SUPPORT DETAIL

AADCO CEILING TRACK MOUNTING

B20-64B
REV. DATE: 06/19/06

DETAIL NOT TO SCALE

FLOOR MOUNTING : INNOVA 3100-4100/OMEGA V LONG TABLE INSTALLATION (TEMPLATE NO. 2360133)

B5049N
REV. DATE: 07/16/07

DETAIL NOT TO SCALE

NOTE: THE FLUSH MOUNTED TABLE PLATE IS PROVIDED BY GEHC. INSTALLED BY CUSTOMER'S CONTRACTOR

WARNING!! THE RELATIONSHIP BETWEEN THE TABLE BASE AND THE POSITIONER BASEPLATE IS CRITICAL.

PRIOR TO DRILLING MOUNTING HOLES CONTACT LOCAL GE HEALTHCARE INSTALLATION PROJECT MANAGER OR LEAD FIELD ENGINEER TO VERIFY THAT THE PROPER FULL SIZE FLOOR MOUNTING TEMPLATE IS USED.

MEDICAL GAS FLOOR EXIT LOCATIONS

DETAIL NOT TO SCALE

THROUGH-BOLT MOUNTING OPTIONS

* FURNISHED BY GEHC AS PART OF INSTALLATION KIT

ANCHOR BOLT MOUNTING OPTIONS

* FURNISHED BY GEHC AS PART OF INSTALLATION KIT

Customer/Contractor Alert: It is the responsibility of the Customer or their Contractor to drill all anchor/thru-bolting holes for anchoring the positioner and table to the floor. Refer to GEHC document no. *2290880-2-100 for installation preparation and procedures.

NOTE: THRU BOLTING IS HIGHLY PREFERRED FOR THE INSTALLATION OF THE POSITIONER BASEPLATE AND OMEGA TABLE. HARDENED BOLTS AND 4" x 4" (102mm x 102mm) STEEL PLATES TO BE USED ARE SUPPLIED BY GE HEALTHCARE AS INDICATED ON THE ACTUAL DETAIL DRAWING. BE ADVISED, HOWEVER, THAT ADDITIONAL SUPPORT STRUCTURES: STEEL BEAMS, PLATES, CORE BORING OF MOUNTING HOLES, ETC., ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER OR HIS CONTRACTOR.

NOTE: IF THRU BOLTING IS NOT POSSIBLE, FLOOR ANCHORS CAN BE USED IF APPROVED BY CUSTOMER'S STRUCTURAL ENGINEER. FOR ON GRADE INSTALLATIONS, MOUNTING KIT CAT. NO. 2286398 SHOULD BE ORDERED. ANCHORS INCLUDED IN KIT SHOULD BE APPROVED BY CUSTOMER'S STRUCTURAL ENGINEER.

NOTE: BASEPLATES MUST BE LEVEL WITHIN 1/32" [0.79mm]

NOTE: JOISTS MUST BE SPANNED WITH STEEL REINFORCING. SIZE AND THICKNESS OF STEEL REINFORCING ARE DETERMINED BY THE ACTUAL PAN CONSTRUCTION ON SITE. STEEL PLATES, CHANNELS OR BEAMS MAY BE USED.

NOTE: DETERMINE THE POSITION OF THE "REBARS IN THE CONCRETE FLOOR SO ANCHOR HOLES WILL NOT RUN INTO THEM.

* DOCUMENT FURNISHED BY GEHC AS PART OF INSTALLATION KIT

POSITIONER BOLT FORCES FOR WORST CASE CONDITIONS		OMEGA TABLE BOLT FORCES FOR WORST CASE CONDITIONS	
LOADS	LOADS	BOLT TENSION (AT BOLT "A")	BOLT SHEAR (U-ARM LOCKED)
HORIZONTAL ACCELERATION = 625 lbs. [284 Kg]	BOLT TENSION = 881 lbs. [400 Kg]	BOLT TENSION = 1938 lbs. [880 Kg]/BOLT	BOLT SHEAR = 407 lbs. [185 Kg]/BOLT
VERTICAL ACCELERATION = 209 lbs. [95 Kg]	MAXIMUM TENSION = 120 lbs. [54 Kg]/BOLT		

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: STRUCTURAL DETAILS
MODALITY TYPE: INNOVA 3100/ 4100

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TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
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DATE: 10-08-07	
DRAWN BY: LLM	
CHECKED BY: TST	

REVISION HISTORY:

SHEET
S2

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

ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 9'-6"

JUNCTION POINT DESCRIPTIONS

ELECTRICAL OUTLET LEGEND

- ⊕ DUPLEX HOSPITAL GRADE, DEDICATED WALL 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)
- ⊕ 3-15R NEMA RECEPTACLE, DEDICATED OUTLET 120-V, SINGLE PHASE POWER
- ⊕ DUPLEX HOSPITAL GRADE, DEDICATED OUTLET 120-V EMERGENCY, SINGLE PHASE POWER, 15A

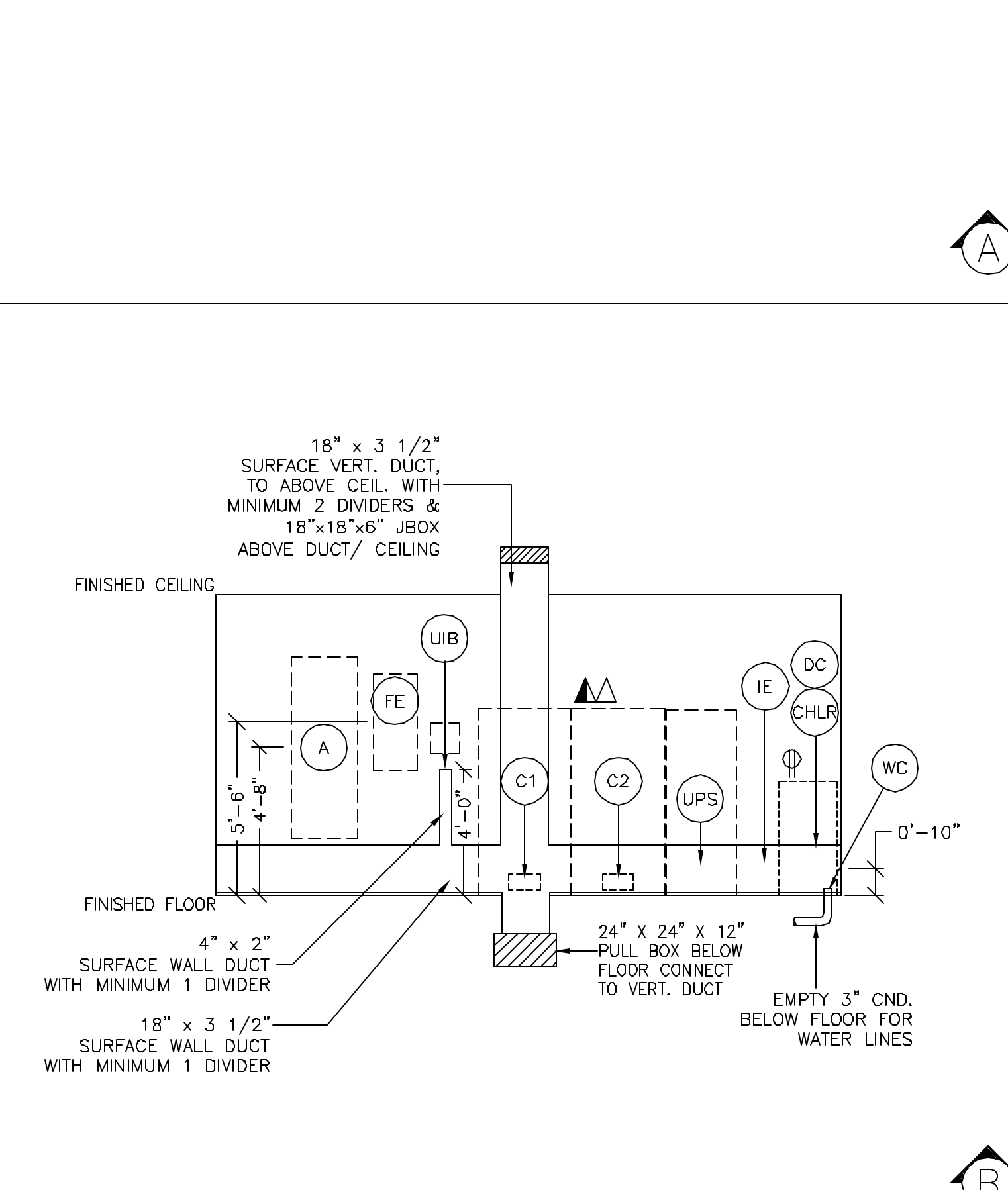
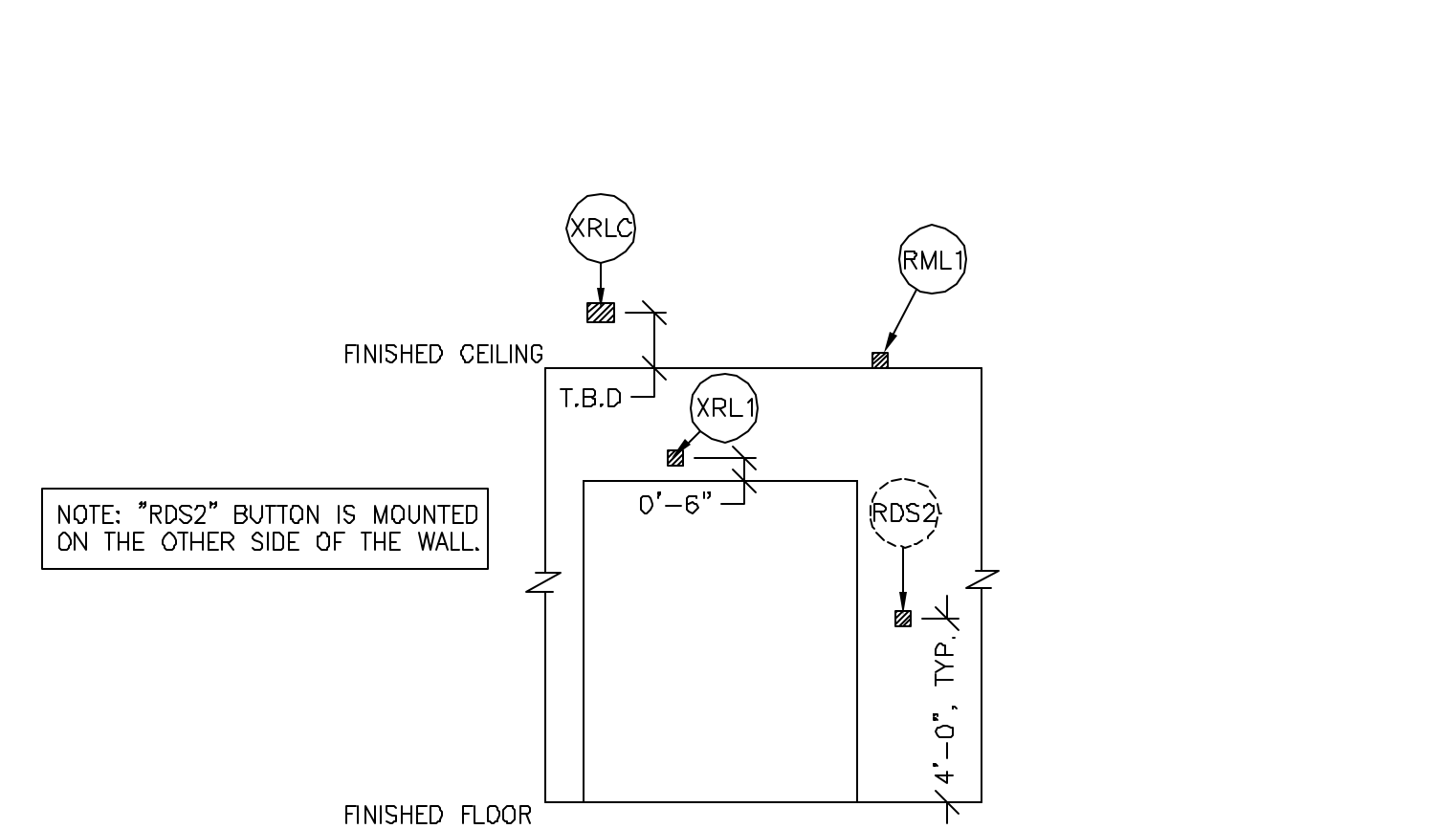
DUCT HATCHING LEGEND

- ▨ 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 PITGALS 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.

POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SH. E3
A	MAIN DISCONNECT	1	150-AMP PANEL INCLUDED IN ORDER	ELEC-142
C1	ATLAS CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8" X 8" OPENING IN DUCT COVER	ELEC-5 ELEC-6 ELEC-8
C2	ATLAS CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8" X 8" OPENING IN DUCT COVER	ELEC-5 ELEC-6 ELEC-8
CHLR	RECIRCULATING WATER CHILLER	2	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
DC	DETECTOR CHILLER	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
FE	FILTER ENCLOSURE	1	CONNECTION TO BE DETERMINED	ELEC-5 ELEC-6
IE	INJECTOR ELECTRONICS	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
IEC	INJECTOR CONTROL	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
IH	INJECTOR HEAD	1	EXTERNALLY CONNECTED AT TABLE BASE	ELEC-5 ELEC-6
LC1	INNOVA LC	1	24 X 24 X 12 IN. BOX SUITABLE LENGTH OF 6 IN. DIA. THREADED CONDUIT OR PIPE 6 IN. DIA. LOCKNUTS 1 GE SUPPLIED FITTING 12 X 12 X 6 IN. BOX 6 IN. DIA. BUSHING 4 1/2 IN. DIA. BUSHING	ELEC-100
LMP	SURGICAL LAMP	1	COVERPLATE 4 X 4 X 4 IN. BOX 1/2 IN. DIA. CHASE NIPPLE	ELEC-8
LUS	OMEGA TABLE	1	COVERPLATE 12 X 12 X 1/2 IN. GROUND BAR WITH 1/4 IN. NUT, MACHINE SCREWS. 1 6 X 6 X 16 IN. BOX 2 IN. DIA. BUSHING & LOCKNUT	ELEC-48 ELEC-134
RDS1	EMERGENCY OFF	1	PROVIDE A SINGLE GANG, 2 1/8 IN. DEEP, FLUSH MTD. WALL BOX.	ELEC-16
RDS2	EMERGENCY OFF	1	PROVIDE A SINGLE GANG, 2 1/8 IN. DEEP, FLUSH MTD. WALL BOX.	ELEC-16
RML1	ROOM LIGHTS AVAILABLE FROM GE. CALL: 800-558-5102	1	COVERPLATE SINGLE GANG BOX #E4500SS 24V X-RAY ROOM WARNING LIGHT AND ROOM LIGHT CONTROLLER OR EQUIVALENT.	ELEC-17
UIB	UPS INTERFACE BOX	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
UPS	UPS CABINET	1	6 FT. OF 2 IN. FLEX CONDUIT AND CONNECTORS 32 IN. OF GROMMET MATERIAL FOR AN 8" X 8" OPENING IN DUCT COVER	ELEC-5 ELEC-6
WBBC	BOLUS WALLBOX	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
WBC1	OPERATORS CONSOLE	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
WBM1	TV MONITOR	1	10 X 10 X 6 IN. FLUSH CEILING BOX 8 1/2 IN. DIA. CHASE NIPPLE	ELEC-9
WC	WATER CHILLER HOSE OUTLET	1	3 IN. CONDUIT STUBBED 2 IN. ABOVE FLOOR	ELEC-9
XRL1	WARNING LIGHT	1	COVERPLATE SINGLE GANG BOX 1-X-RAY OR INCANDESCENT LIGHT FIXTURE - DO NOT USE FLUORESCENT FIXTURES.	ELEC-17
XRLC	WARNING LIGHT CONTROLLER AVAILABLE FROM GEHC. CALL: 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	E4500SS WARNING LIGHT & ROOM LIGHT CONTROL OR EQUIVALENT MAX 24V CONTROLLER	ELEC-17



NOTE: REFER TO CONDUIT LEGEND FOR ALL ADDITIONAL CONDUITS NOT SHOWN ON DRAWING.

ADDITIONAL CONDUIT RUNS FOR INNOVA SYSTEMS: 2100/ 3100/ 4100

- CONDUITS REQUIRED FROM POINT "XRLC"
- XRLC TO XRL1 = ONE 1/2" CND.
- XRLC TO RML1 = ONE 1/2" CND.
- XRLC TO C2 = ONE 1/2" CND.
- XRLC TO 120-V 1 PHASE POWER CONDUIT AS REQUIRED
- CONDUITS REQUIRED FROM POINT "LMP"
- LMP TO 120-V 1 PHASE POWER CONDUIT AS REQUIRED
- CONDUITS REQUIRED FROM POINT "WBM1"
- WBM1 TO C1 = TWO 2 1/2" CND.
- WBM1 TO WBC1 = ONE 2 1/2" CND.
- CONDUITS REQUIRED FROM POINT "A"
- A TO UPS = TWO CND. AS REQ'D.
- A TO UIB = ONE 1 1/2" CND.
- A TO RDS1 = ONE 1/2" CND.
- A TO RDS2 = ONE 1/2" CND.
- A TO C1 = ONE CND. AS REQ'D. FOR FOUR CUSTOMER SUPPLIED POWER/GROUND RUNS.
- A TO C2 = ONE 1" CND. FOR TWO GE SUPPLIED SIGNAL CABLES
- A TO FE = ONE CND. AS REQ'D.
- FE TO 480-V 3 PHASE POWER CONDUIT AS REQUIRED

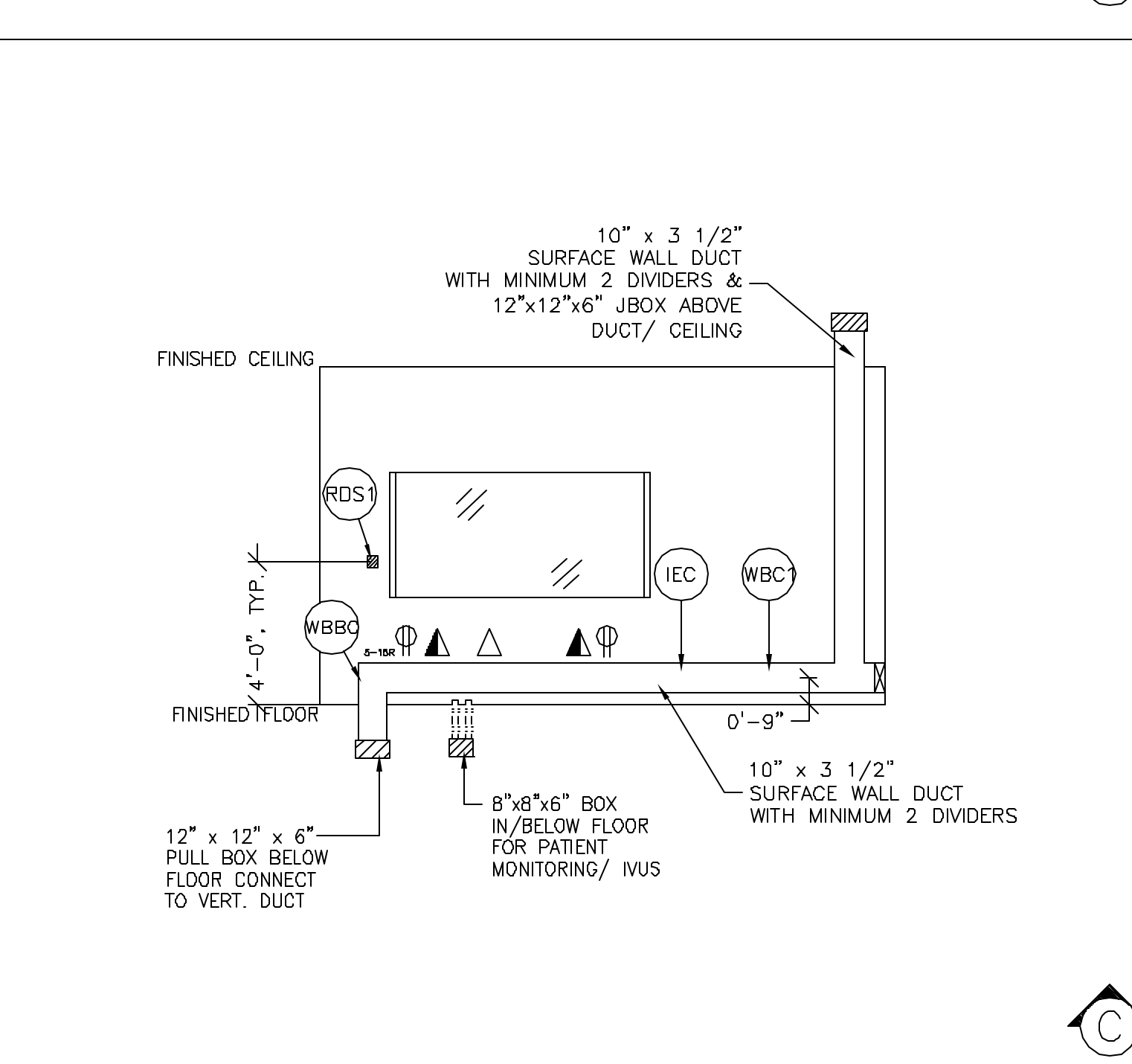
CONTACT YOUR LOCAL RADIO VISION PROJECT MANAGER, INSTALLATIONS (CVPMI) FOR ANY MODIFICATIONS TO ROOM LAYOUT.

BEFORE PROCEEDING WITH INSTALLATION OF CEILING MOUNTED FIXTURES, PLEASE REFER TO STRUCTURAL SHEET S1 FOR LOCATIONS OF UNISTRUT AND OTHER STRUCTURAL SUPPORTED EQUIPMENT IN CEILING.

FEEDER TABLE REV. DATE: 02/10/05

* CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
 * RECOMMENDED FEEDER SIZES FROM DIST. TRANS. TO ROOM DISCONNECT. CALCULATIONS ARE AT NOMINAL VOLTAGE BASED UPON 1/0 WIRE SIZE FROM ROOM DISCONNECT TO POWER CABINET WITH A MAXIMUM RUN OF 25 FT.
 * NEUTRAL MUST BE TERMINATED INSIDE THE MAIN DISCONNECT PANEL AND NOT AT ANY GE CABINET.
 * THE GROUNDING CONDUCTOR (G) WILL BE A 2 AWG MINIMUM.
 * THE GROUND WILL RUN FROM THE EQUIPMENT BACK TO THE POWER SOURCE/MAIN GROUNDING POINT AND ALWAYS TRAVEL IN THE SAME CONDUIT WITH THE FEEDERS AND NEUTRAL.
 * 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	324-386		342-418		360-440		378-462		396-484		414-508		432-528	
	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND
90	1/0	(2)	*1/0	(2)	*1/0	(2)	*1/0	(2)	*1/0	(2)	*1/0	(2)	*1/0	(2)
100	1/0	(2)	*1/0	(2)	*1/0	(2)	*1/0	(2)	*1/0	(2)	*1/0	(2)	*1/0	(2)
150	3/0	(2)	2/0	(2)	2/0	(2)	1/0	(2)	1/0	(2)	1/0	(2)	1/0	(2)
200	4/0	(2)	4/0	(2)	3/0	(2)	3/0	(2)	2/0	(2)	2/0	(2)	1/0	(2)
250	300M	(2)	300M	(2)	250M	(2)	4/0	(2)	3/0	(2)	3/0	(2)	3/0	(2)
300	400M	(2)	350M	(2)	300M	(2)	250M	(2)	4/0	(2)	4/0	(2)	4/0	(2)
350	600M	(2)	500M	(2)	400M	(2)	350M	(2)	300M	(2)	250M	(2)	4/0	(2)
400	700M	(2)	600M	(2)	500M	(2)	400M	(2)	350M	(2)	300M	(2)	300M	(2)



CONDUIT IS FOR PHYSIOLOGICAL MONITORING EQUIPMENT. CONFIRM EXACT LOCATION WITH EQUIPMENT SUPPLIER. CONSULT MANUFACTURER SPECIFICATION FOR USABLE CABLE LENGTH.

CONDUITS REQUIRED FOR MAC LAB
 PC/IVUS TO WBM1 = ONE 3" CND.
 PC/IVUS TO TRAM = ONE 3 1/2" CND.

CONDUITS REQUIRED FOR RADIO LAB
 PC/IVUS TO WBM1 = ONE 3" CND.
 PC TO TRAM = ONE 3" CND.
 IVUS TO TRAM = ONE 3" CND.

CONDUITS REQUIRED FOR COMBO LAB
 PC TO WBM1 = ONE 3" CND.
 PC TO TRAM/AMP = ONE 3" CND.
 PC TO RMOT = ONE 3" CND.
 IVUS TO TRAM/AMP = ONE 3" CND.

CONDUITS REQUIRED FOR GENERIC PHYSIO
 PC/IVUS TO WBM1 = ONE 3" CND.
 PC TO TRAM = ONE 3" CND.
 IVUS TO TRAM = ONE 3" CND.

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 > FE	3-BLACK, 1-WHITE, 1-GREEN - REFER TO FEEDER TABLE
FE > A	3-BLACK, 1-WHITE, 1-GREEN - REFER TO FEEDER TABLE
A > C1 <JED>	3-NO. 1/0 BLACK, 1-NO. 1/0 GREEN
A > C1 <PDU>	2-NO. 10 BLACK, 1-NO. 10 GREEN
A > CHLR	3-NO. 10 BLACK, 1-NO. 10 GREEN
A > RDS1	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
A > RDS2	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
120-V > XRLC	1-BLACK, 1-WHITE, 1-GREEN - (SIZE AS REQUIRED)
XRL1 > XRLC	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
XRLC > XRLC	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
XRLC > C2	2-NO. 14 BLACK, 2-NO. 14 WHITE, 1-NO. 14 GREEN
XRLC > 1 PHASE	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
A > C2	3-NO. 8 BLACK, 1-NO. 8 GREEN
120-V > LMP	1-BLACK, 1-WHITE, 1-GREEN - (SIZE AS REQUIRED)
A > UPS	3-NO. 6 BLACK, 1-NO. 6 GREEN 6-NO. 8 BLACK, 2-NO. 8 WHITE, 2-NO. 8 GREEN

GE Healthcare Technologies
 Installation Services Design Center
 Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL LAYOUT
 MODALITY TYPE: INNOVA 3100/ 4100
 THIS PLAN IS LIMITED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS. ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS IN PREPARING THIS PLAN HAVE BEEN MADE TO CORRELATE WITH THE ACTUAL CONSTRUCTION PURPOSES. HOWEVER, AND THE COMPANY ACCEPTS NO RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
TYPICAL SPECIAL PROCEDURES 4-58F
 TYPICAL INSTALLATION DRAWINGS

PROJECT: 4-58F
 REVISION: 02
 DATE: 10-08-07
 DRAWN BY: LLM
 CHECKED BY: TST

REVISION HISTORY:

SHEET
E1

INTERCONNECT DIAGRAM

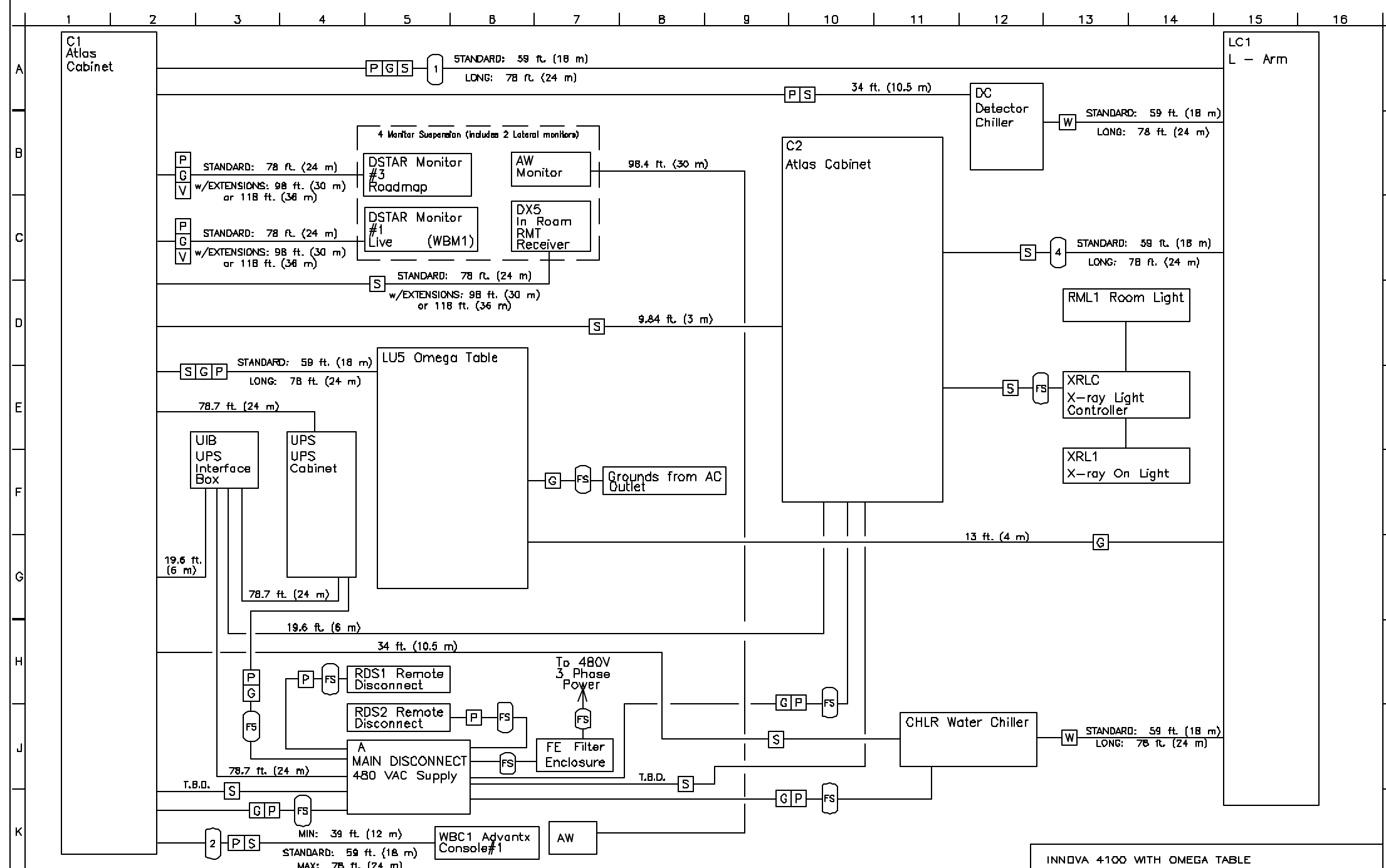
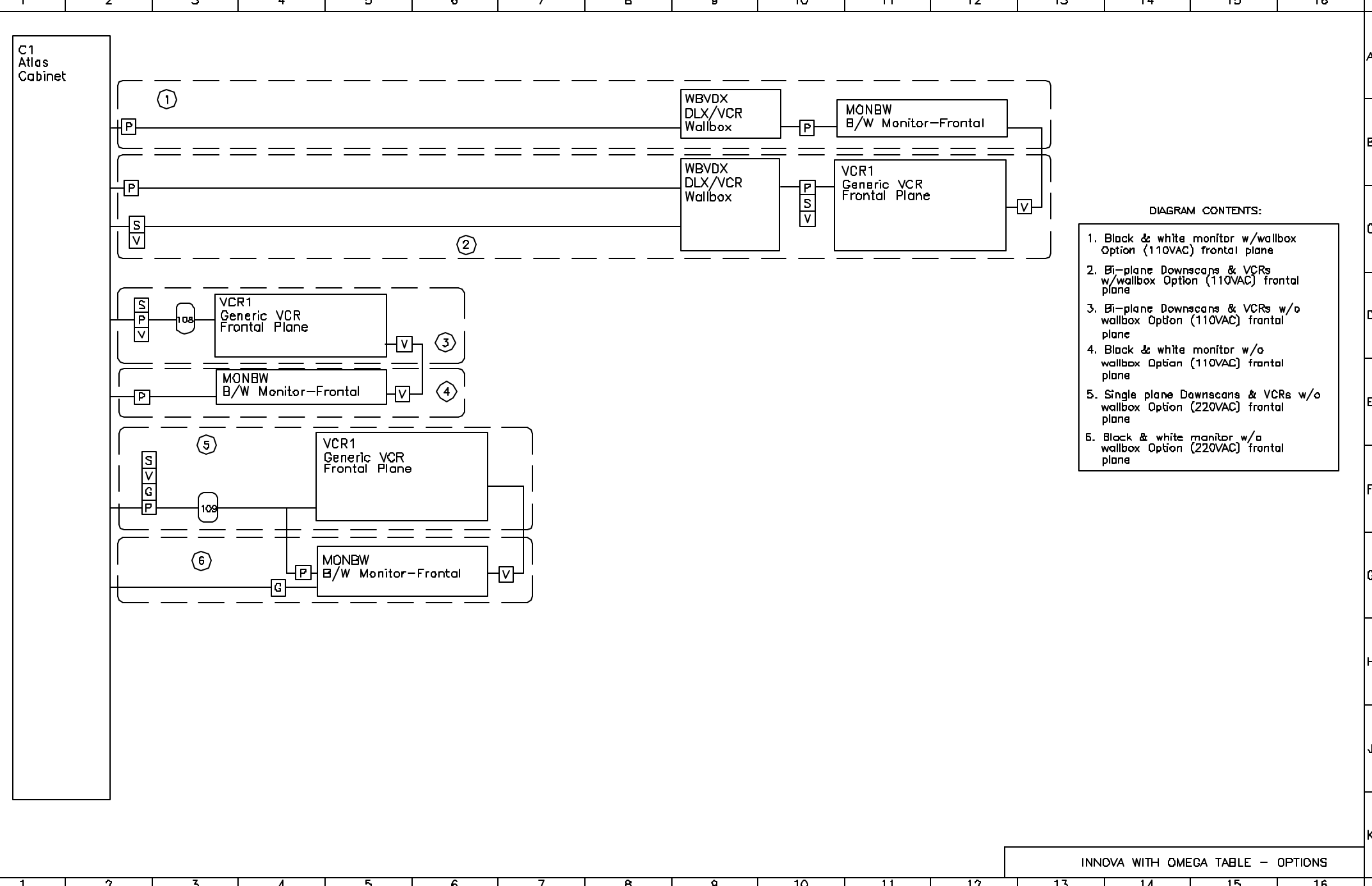
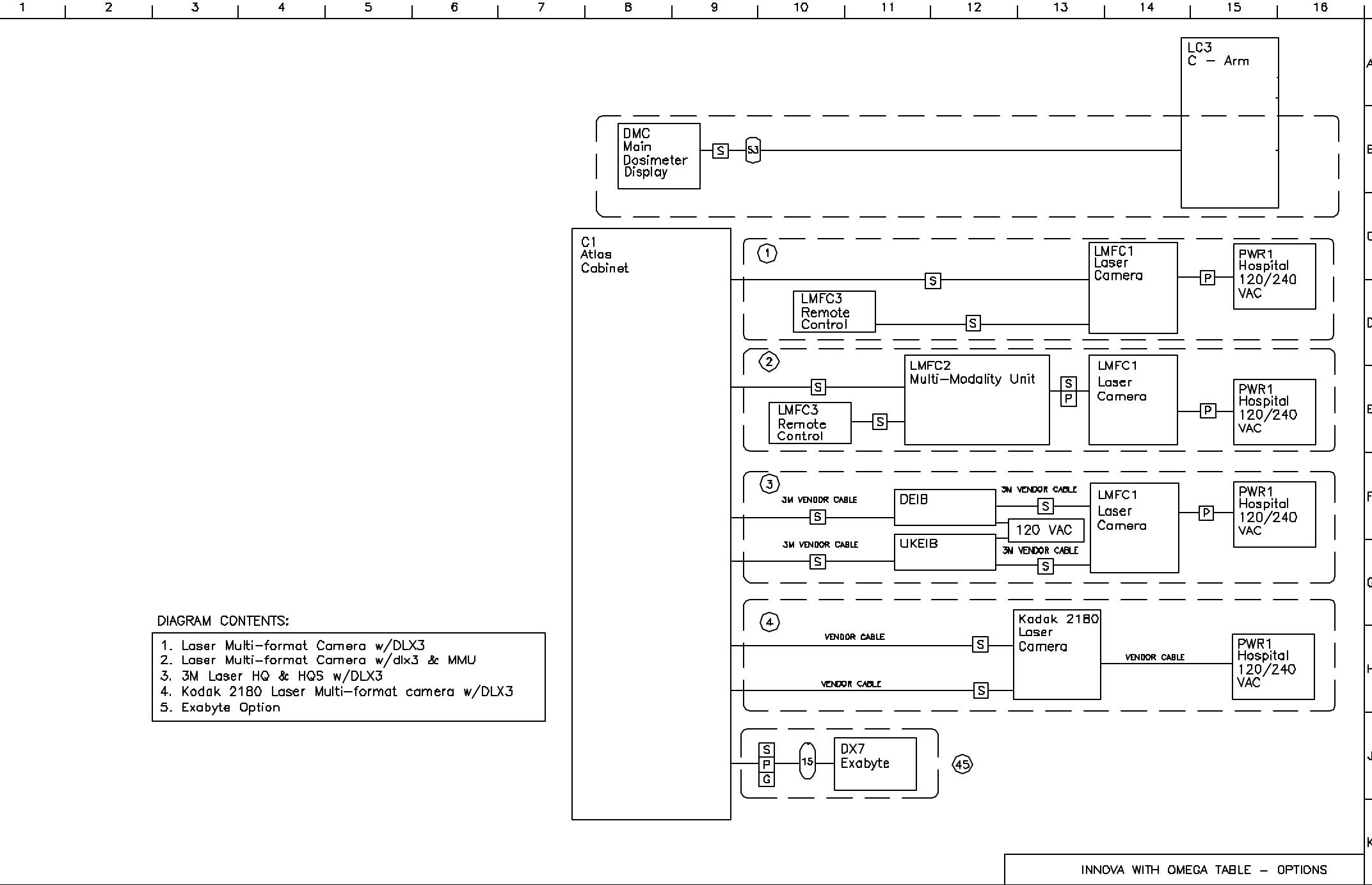
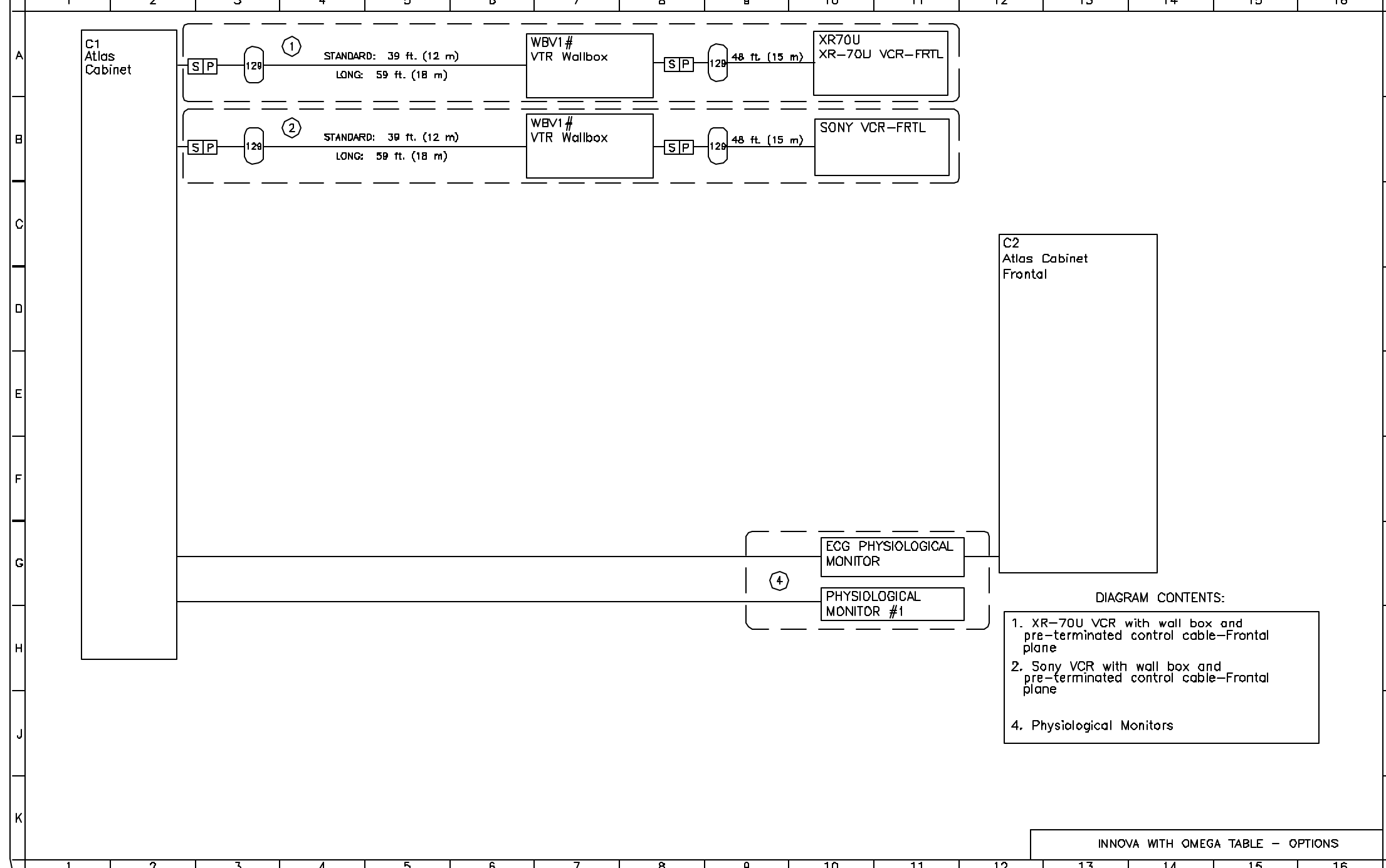
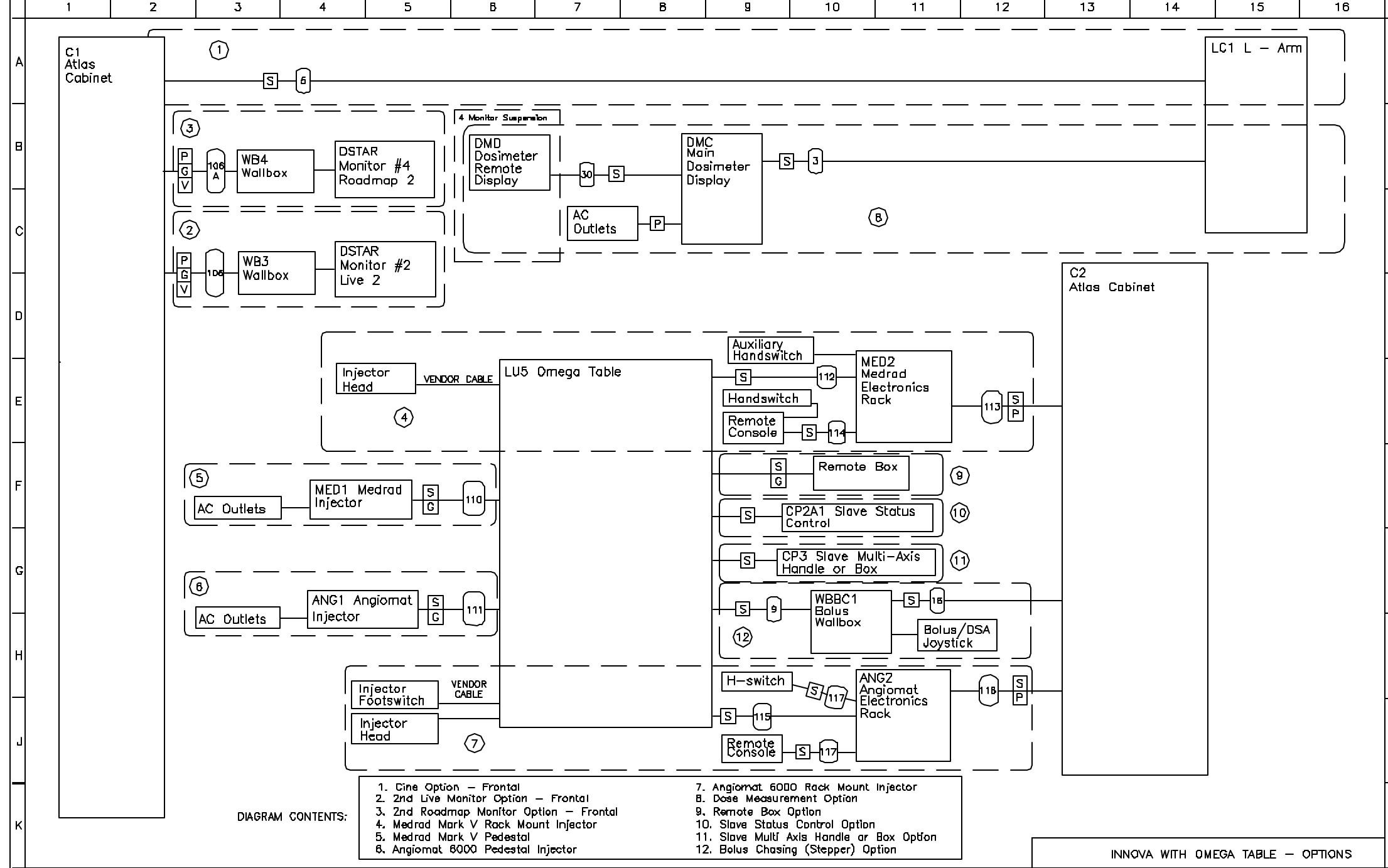


Diagram Legend:

- S = Signal Cables
- V = Video Cables
- H = High Voltage Cables
- P = Power Cables
- G = Ground Wires (Independent of Power Cables)
- W = Water Lines
- M = Cable Run Numbers
- R = Field Supplied Cables



POWER SPECIFICATIONS

INNOVA SYSTEMS
 REV. DATE: 01/04/07
 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	304	32
380	342-418	289	31
400	360-440	274	29
420	378-462	264	28
440	396-484	249	26
460	414-506	238	25
480	432-528	228	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 DEMAND: CONTINUOUS POWER DEMAND = 20KVA. (MAX DEMAND = 171 KVA)

TABLE B MAXIMUM MOMENTARY POWER DEMAND.

DEMAND	ADVANTX 100
kVa * POWER FACTOR AT	171 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 5 PERCENT.

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

ELECTRICAL NOTES

- NOTE 1: ALL WIRES SPECIFIED SHALL BE STRANDED, FLEXIBLE, THERMO-PLASTIC, COLOR CODED, COPPER ONLY, CUT 10 FOOT LONG AT OUTLET BOXES, DUCT TERMINATION POINTS OR STUBBED CONDUIT ENDS, UNLESS OTHERWISE SPECIFIED. ALL CONDUCTORS, POWER, SIGNAL AND GROUND, MUST BE RUN IN CONDUIT OR DUCT SYSTEM. ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS. WIRE RUNS MUST BE CONTINUOUS COPPER AND FREE FROM SPLICES.
- 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., OTHER THAN SHOWN ON THIS DRAWING 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 MOST BE EXAMINED OR TREATED, UNDER PRESENT, FUTURE, OR EMERGENCY CONDITIONS. CONSULT THE COVERING 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 A QUALIFIED 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.

GE Healthcare Technologies
 Installation Services Design Center
 Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL SPECIFICATIONS
 MODALITY TYPE: INNOVA 3100/ 4100

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PROJECT TITLE:
 TYPICAL SPECIAL PROCEDURES 4-58F
 TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
4-58F	02
DATE: 10-08-07	
DRAWN BY: LLM	
CHECKED BY: TST	

REVISION HISTORY:

SHEET
 E2

ELECTRICAL DETAIL HORIZONTAL WALL DUCT (TYPICAL)

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

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

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 BOX WITH COVERPLATE (TYPICAL)

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

DETAIL NOT TO SCALE

ELECTRICAL DETAIL TABLE INTERCONNECTION - BOX BELOW FLOOR

ELEC-48
REV. DATE: 01/04/96

DETAIL NOT TO SCALE

ELECTRICAL DETAIL TABLE INTERCONNECT DETAIL, UNDER FLOOR

ELEC-134
REV. DATE: 05/10/04

DETAIL NOT TO SCALE

ELECTRICAL DETAIL X-RAY WARNING LIGHT & ROOM LIGHT CONTROL PANEL

ELEC-17
REV. DATE: 05/09/07

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

ELECTRICAL DETAIL EMERGENCY OFF BUTTON

ELEC-16
REV. DATE: 08/22/05

DETAIL NOT TO SCALE

ELECTRICAL DETAIL POSITIONER INTERCONNECT DETAIL, UNDER FLOOR

ELEC-100
REV. DATE: 03/30/04

DETAIL NOT TO SCALE

ELECTRICAL DETAIL INNOVA 2100 MAIN DISCONNECT PANEL

ELEC-142
REV. DATE: 12/13/05

DETAIL NOT TO SCALE

ELECTRICAL DETAIL CONDUITS THRU-FLOOR (TYPICAL)

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

DETAIL NOT TO SCALE

ELECTRICAL DETAIL J.B. / WALL DUCT DETAIL (TYPICAL)

ELEC-2
REV. DATE: 09/30/94

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

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL DETAILS
MODALITY TYPE: INNOVA 3100/ 4100

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, THE CONTRACTOR HAS BEEN MADE AWARE OF THE REQUIREMENTS OF THE ACTUAL CONSTRUCTION PURPOSES, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
TYPICAL SPECIAL PROCEDURES 4-58F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
4-58f	02
DATE:	10-08-07
DRAWN BY:	LLM
CHECKED BY:	TST

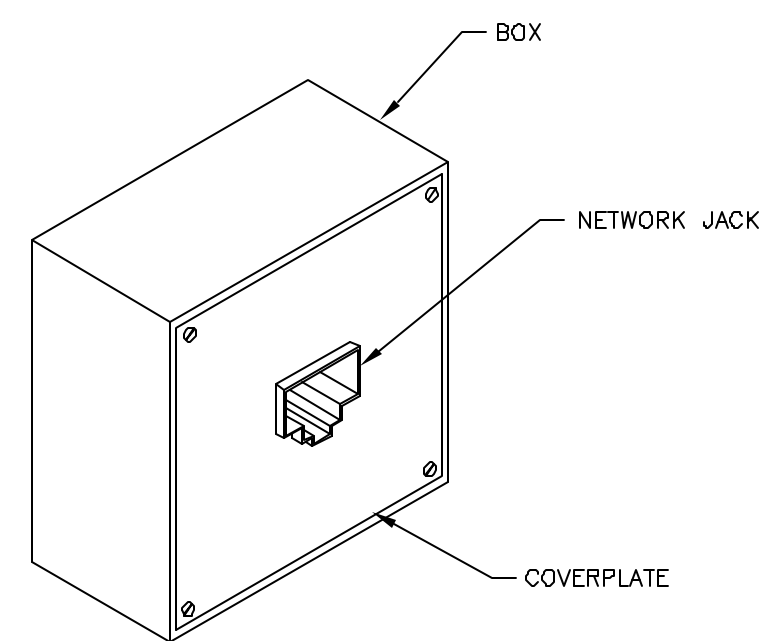
REVISION HISTORY:

SHEET
E3

ELECTRICAL DETAIL
BOX WITH COVERPLATE AND NETWORK JACK

ELEC-83

REV. DATE: 10/06/98

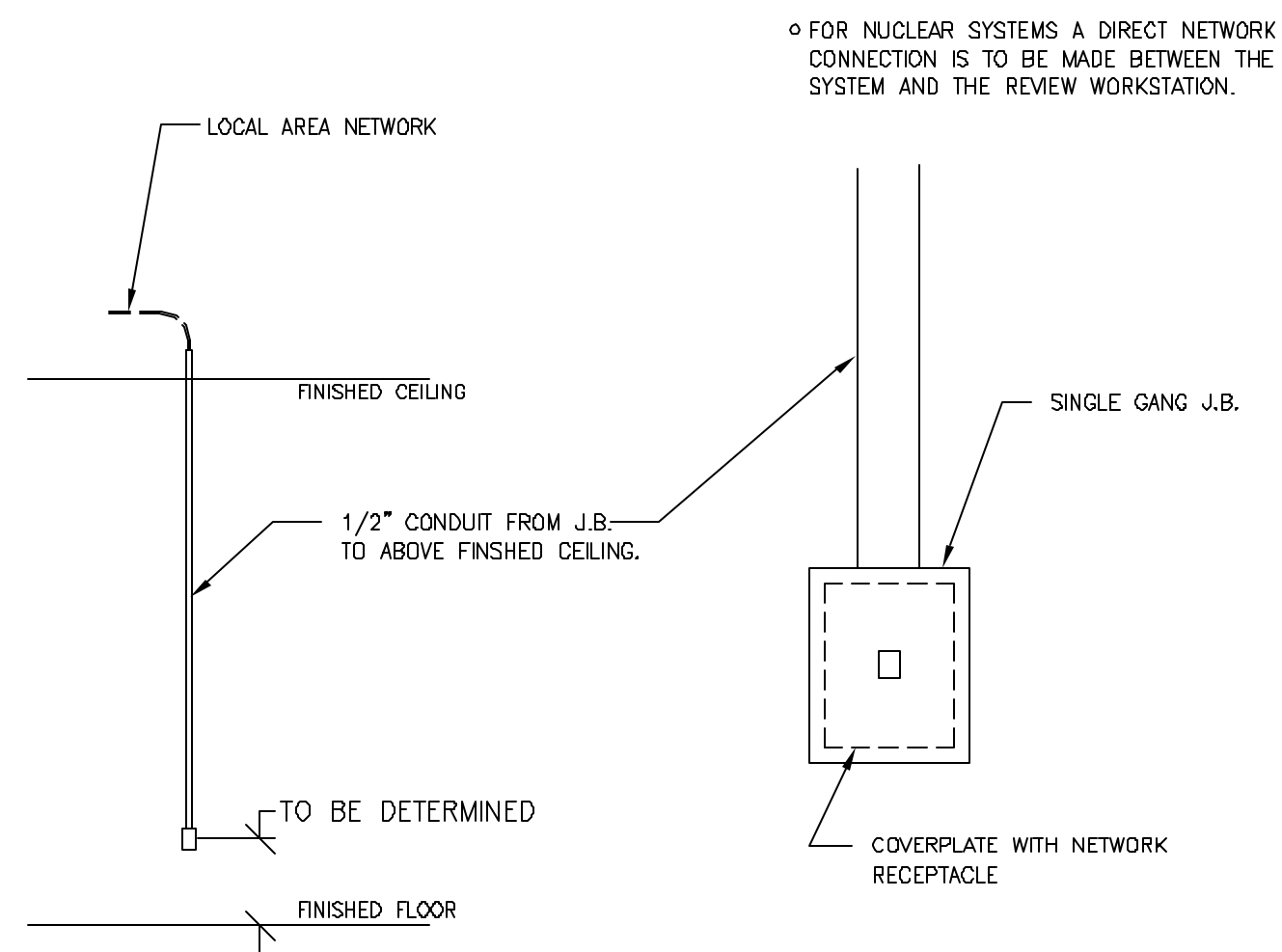


DETAIL NOT TO SCALE

ELECTRICAL DETAIL
NETWORK CONNECTION (TYPICAL)

ELEC-84

REV. DATE: 03/06/04



DETAIL NOT TO SCALE

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL DETAILS
MODALITY TYPE: INNOVA 3100/ 4100

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS. ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS IN PREPARING THIS PLAN HAVE BEEN MADE TO CORRELATE WITH THE CONSTRUCTION ACTUAL CONSTRUCTION PURPOSES. HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
TYPICAL SPECIAL PROCEDURES 4-58F
TYPICAL INSTALLATION DRAWINGS

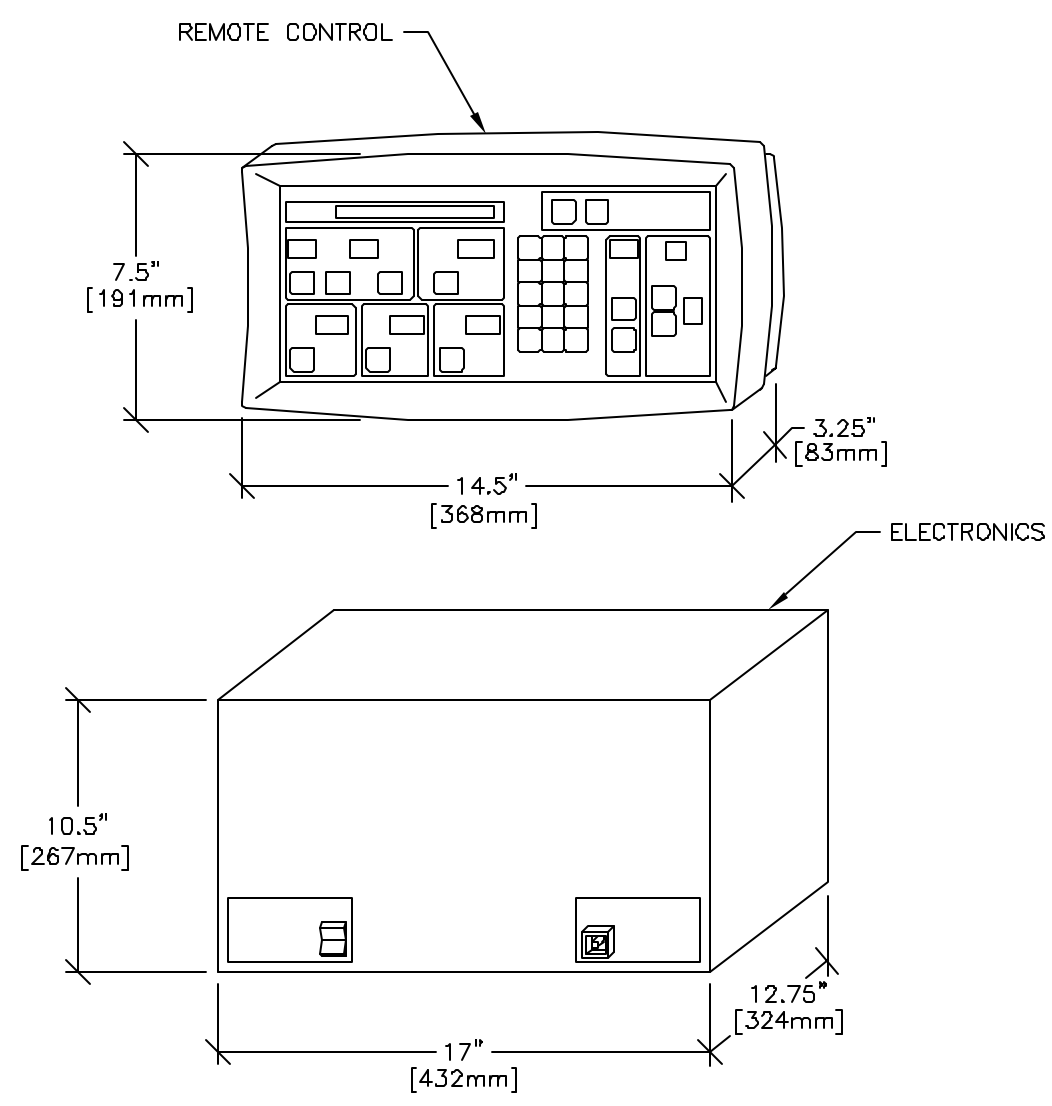
PROJECT	REVISION
4-58f	02
DATE: 10-08-07	
DRAWN BY: LLM	
CHECKED BY: TST	

REVISION HISTORY:

SHEET
E4

EQUIPMENT DETAIL
INJECTOR REMOTE CONTROL AND ELECTRONICS

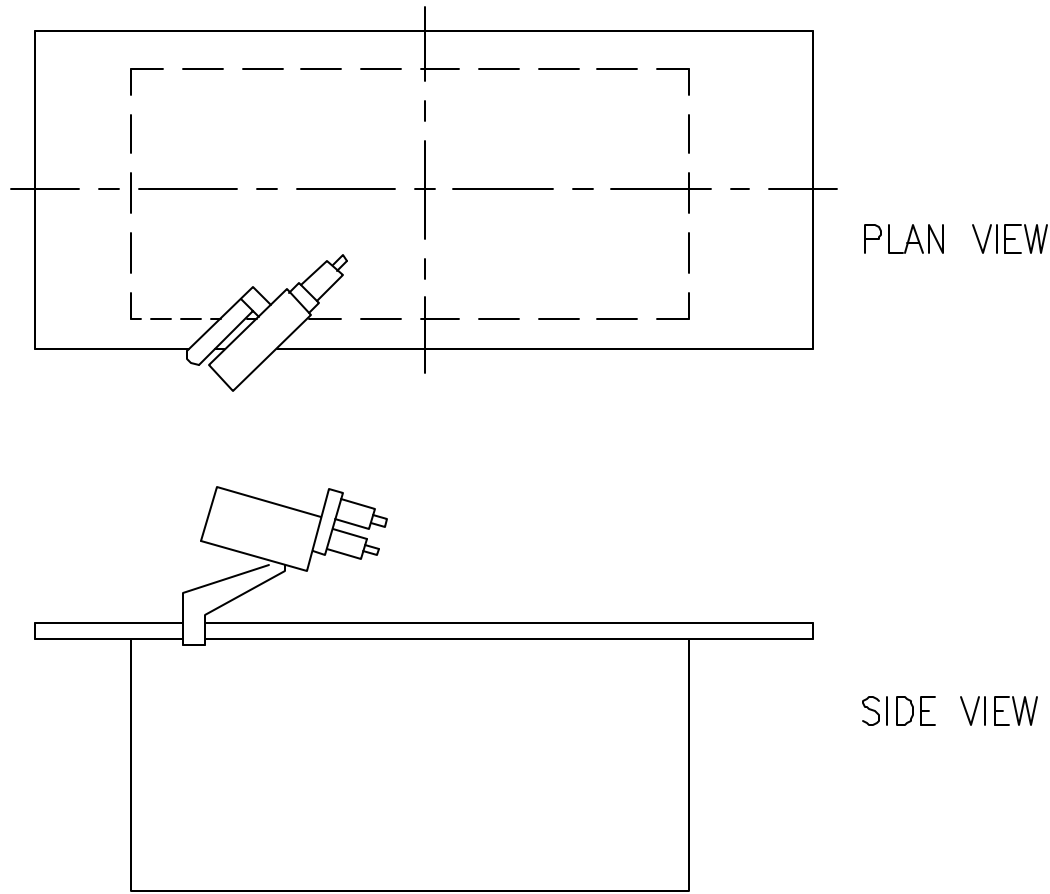
B50-28



DRAWING NOT TO SCALE

EQUIPMENT DETAIL
INJECTOR ON TABLE RAIL

B50-30A

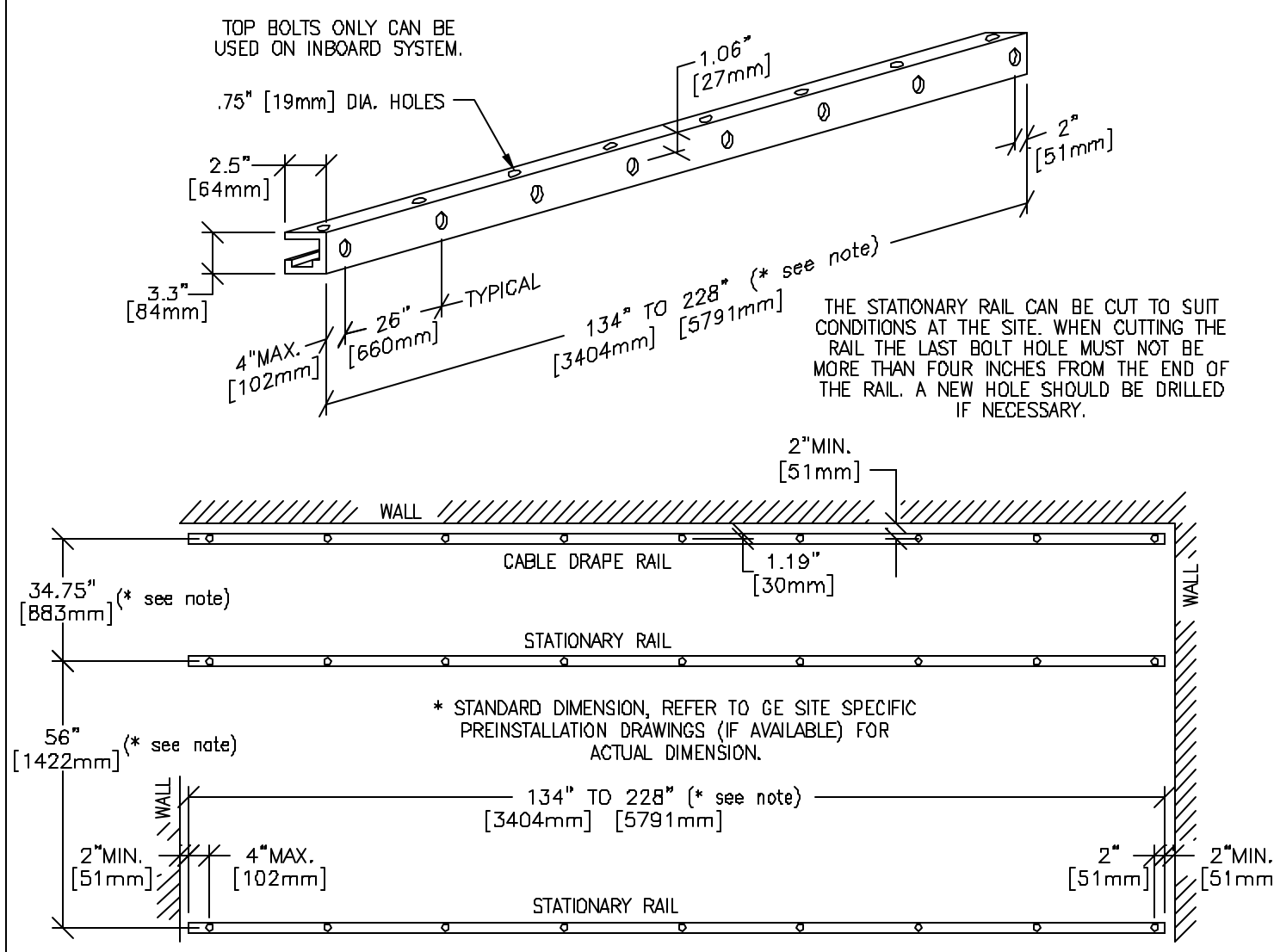


DRAWING NOT TO SCALE

EQUIPMENT DETAIL
XT RADIOGRAPHIC SUSPENSION, INBOARD MOUNTING

B2004

REV. DATE: 12/07/94

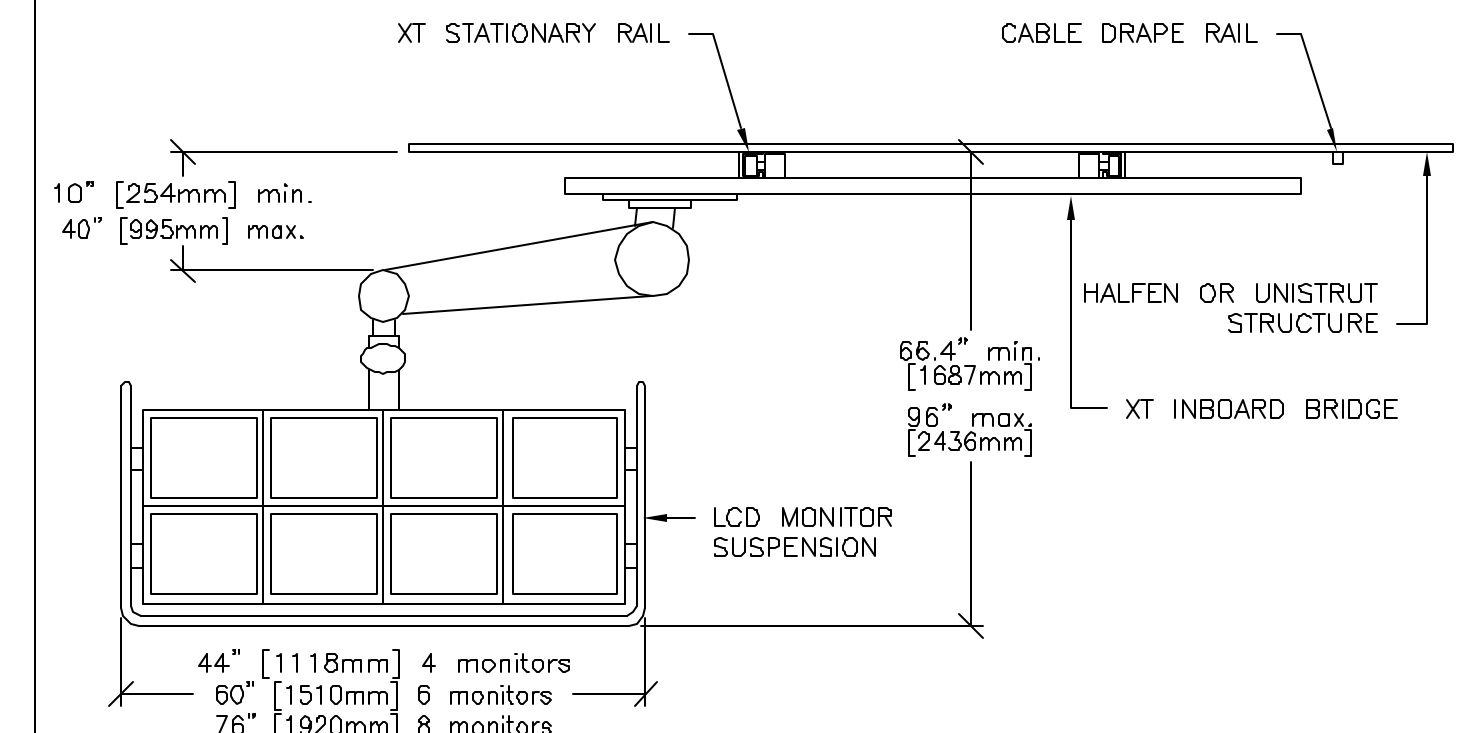


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
LCD MONITOR SUSPENSION, 4, 6 OR 8 MONITORS

B2010A

REV. DATE: 12/16/03

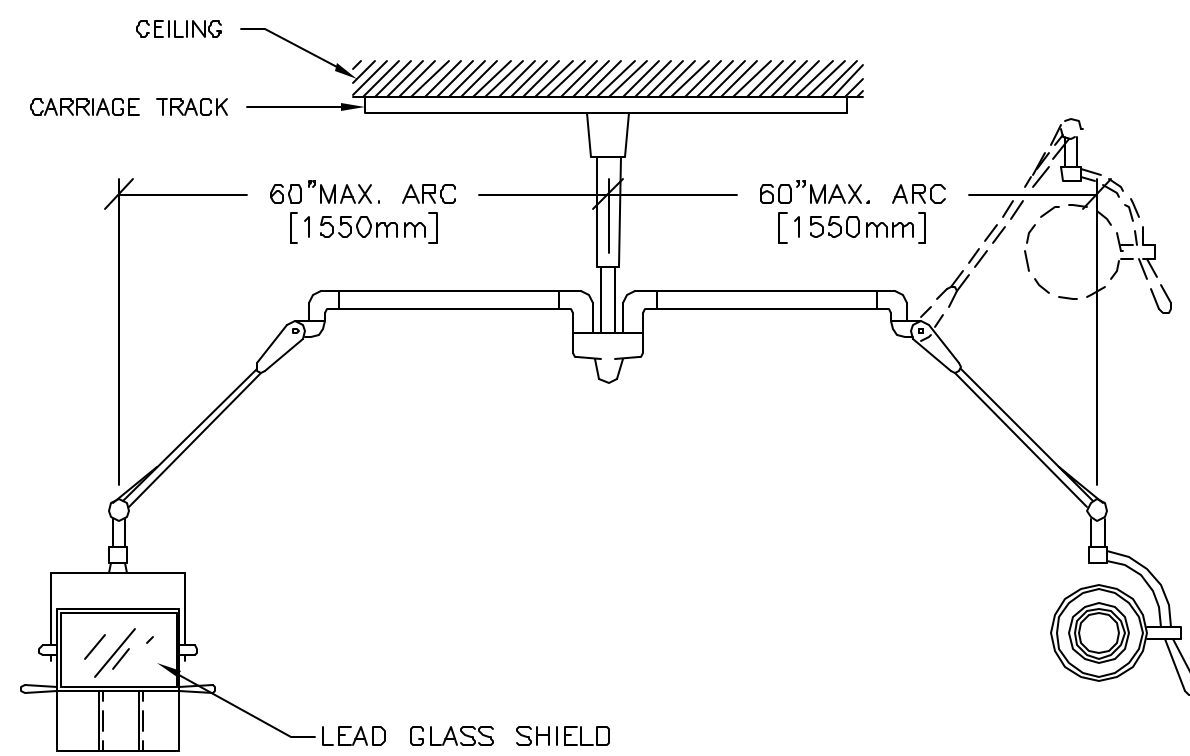


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
AADCO EYE & THYROID SHIELD WITH LAMP

B20-64

REV. DATE: 05/08/01

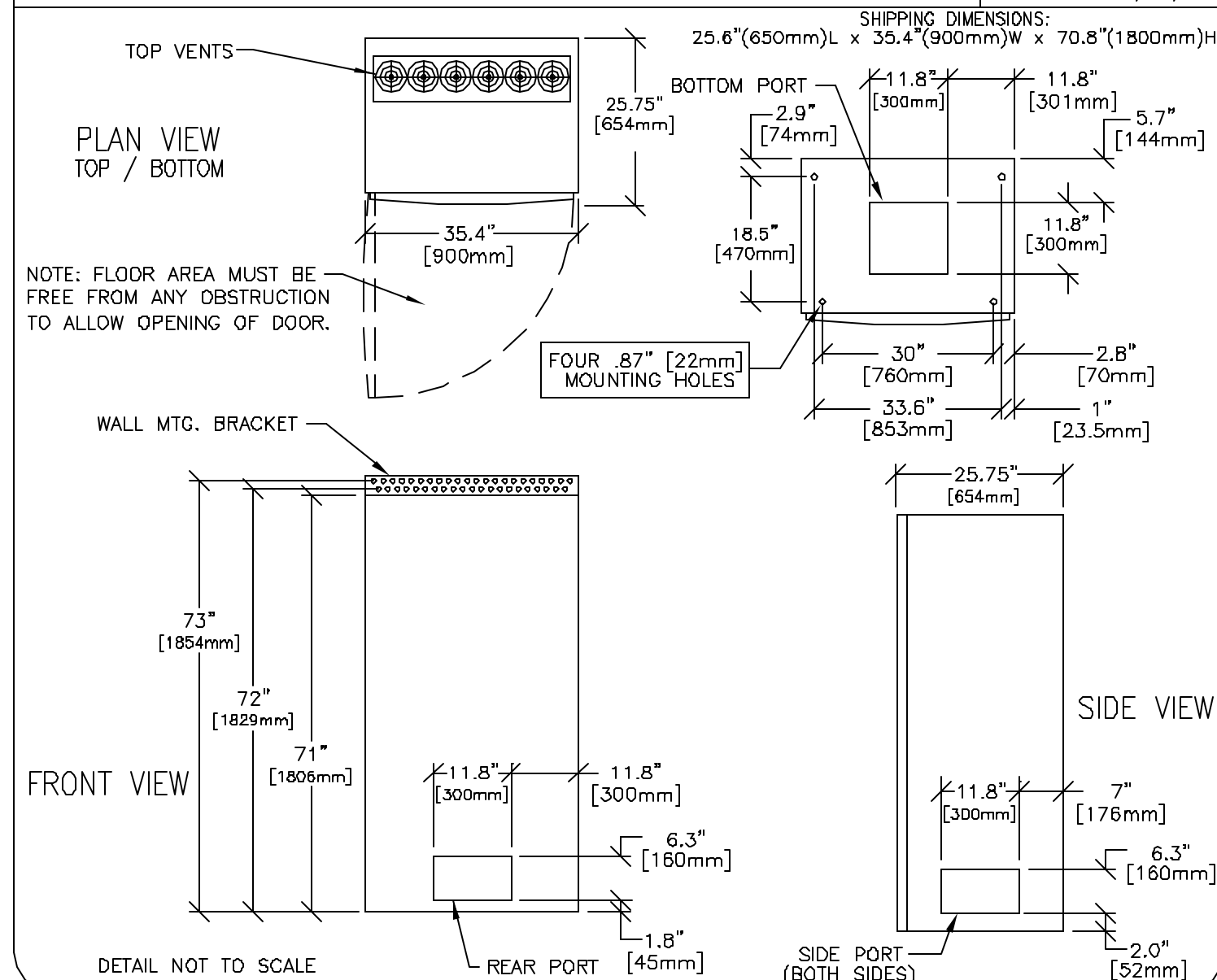


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
INNOVA 2100/3100/4100 CABINETS

B0558C

REV. DATE: 01/04/07

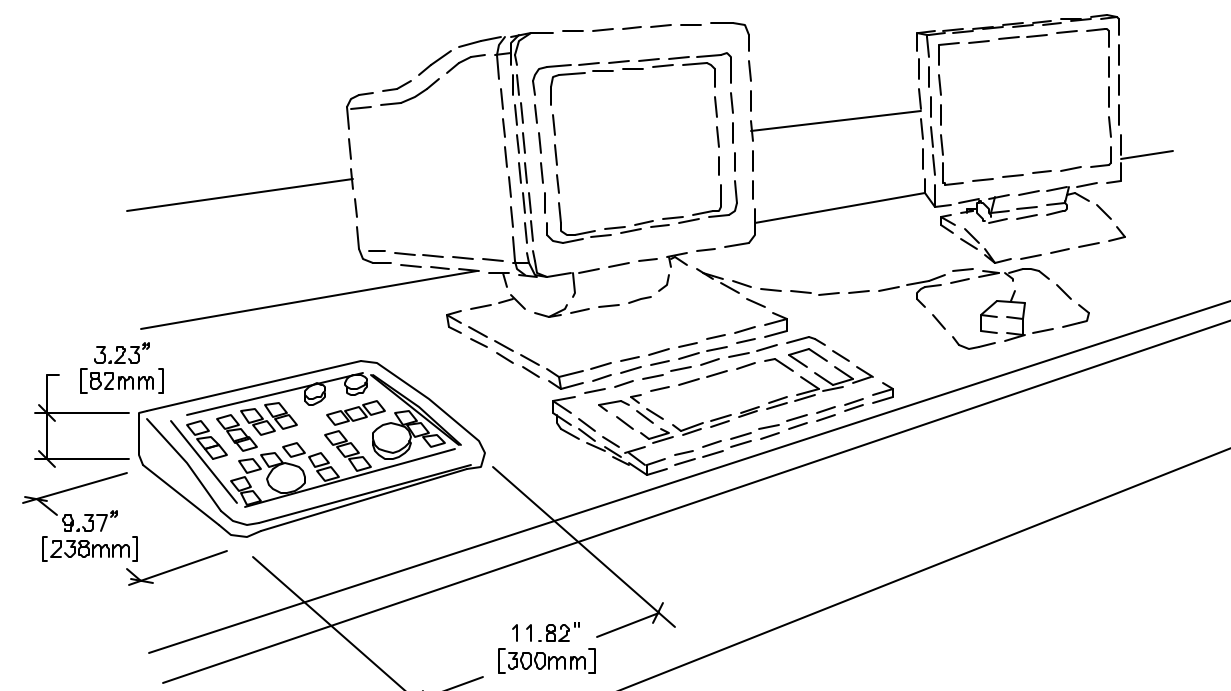


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
DLX or DL KEYPAD

C7412H

REV. DATE: 09/03/03

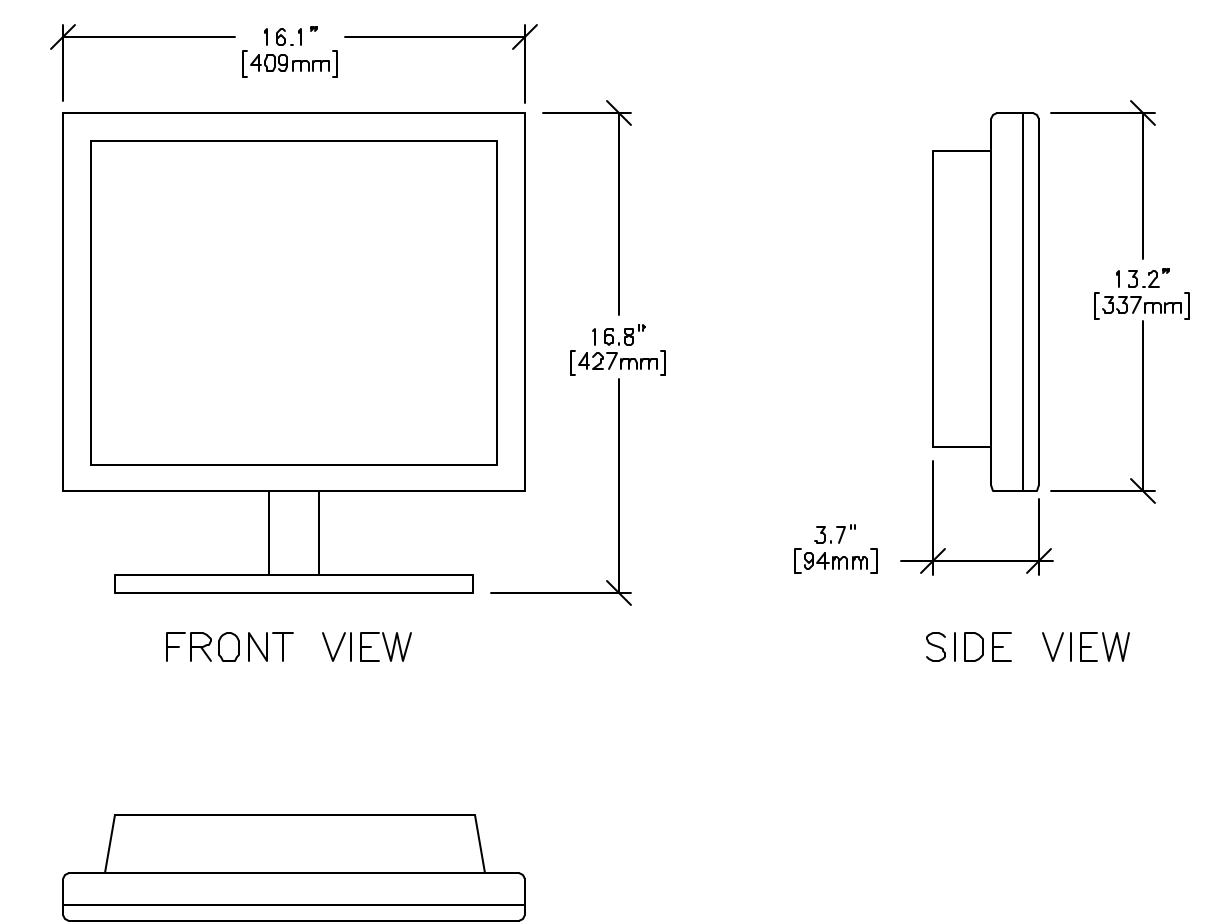


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
18" FLAT PANEL MONITOR

C76-17

REV. DATE: 04/21/03

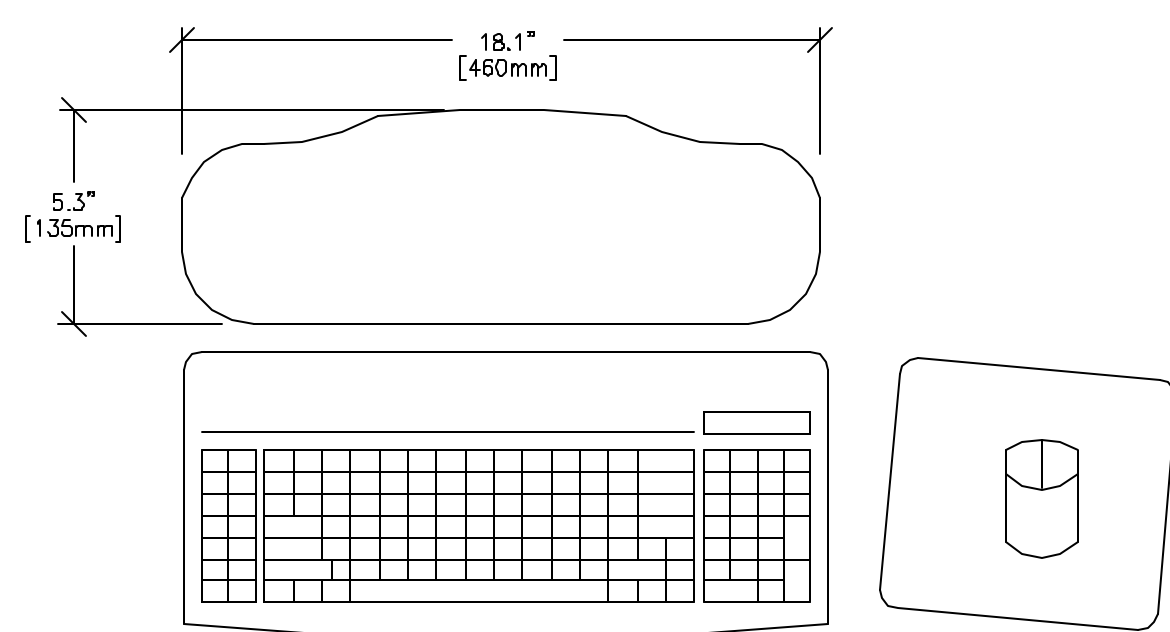


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
VCIM WITH DL KEYBOARD CONSOLE

C75-02

REV. DATE: 04/02/04

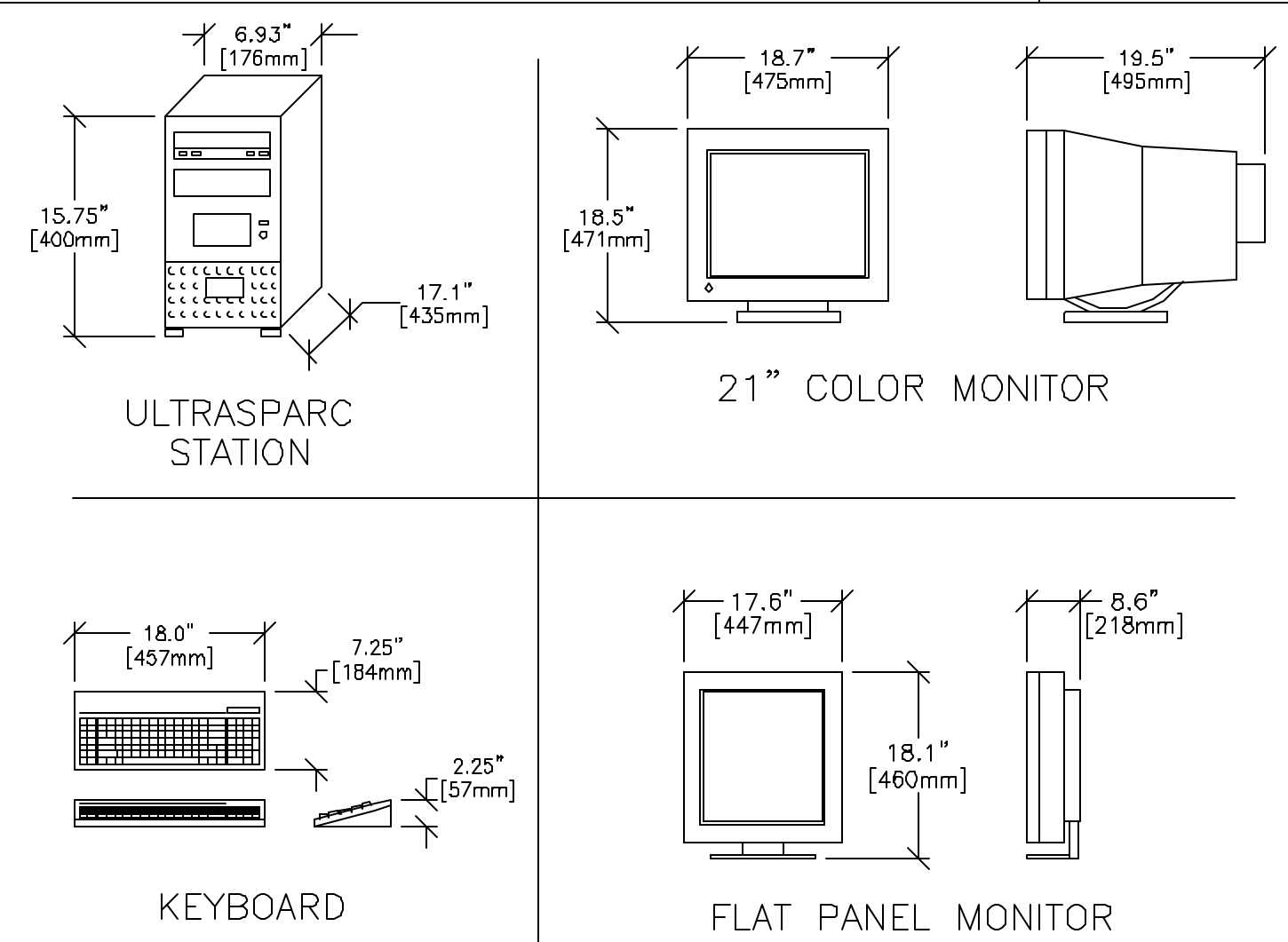


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
WORKSTATION

M1013AW

REV. DATE: 04/25/01

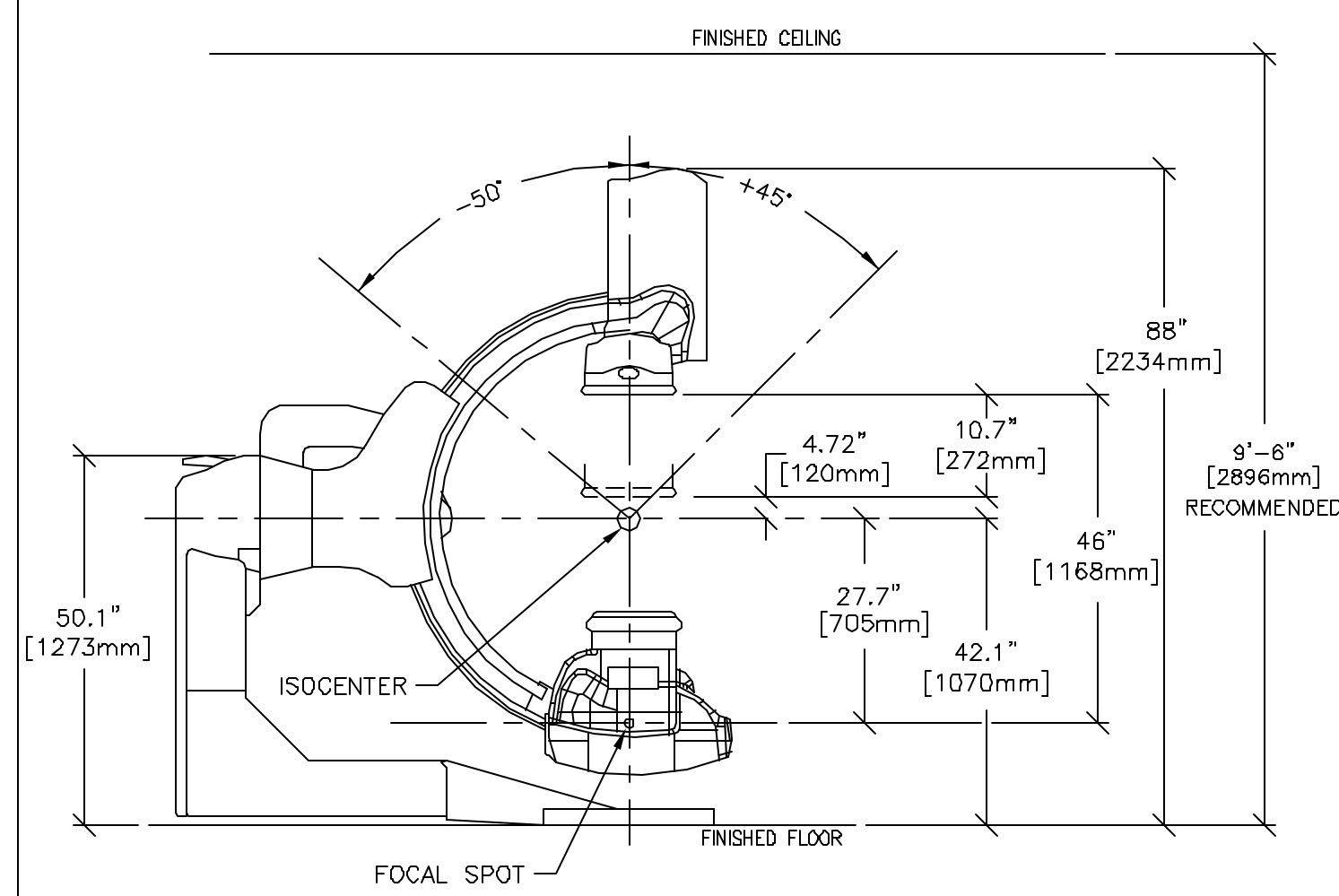


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
INNOVA 2100/3100/4100 VASCULAR SYSTEM

B5050A

REV. DATE: 06/07/05

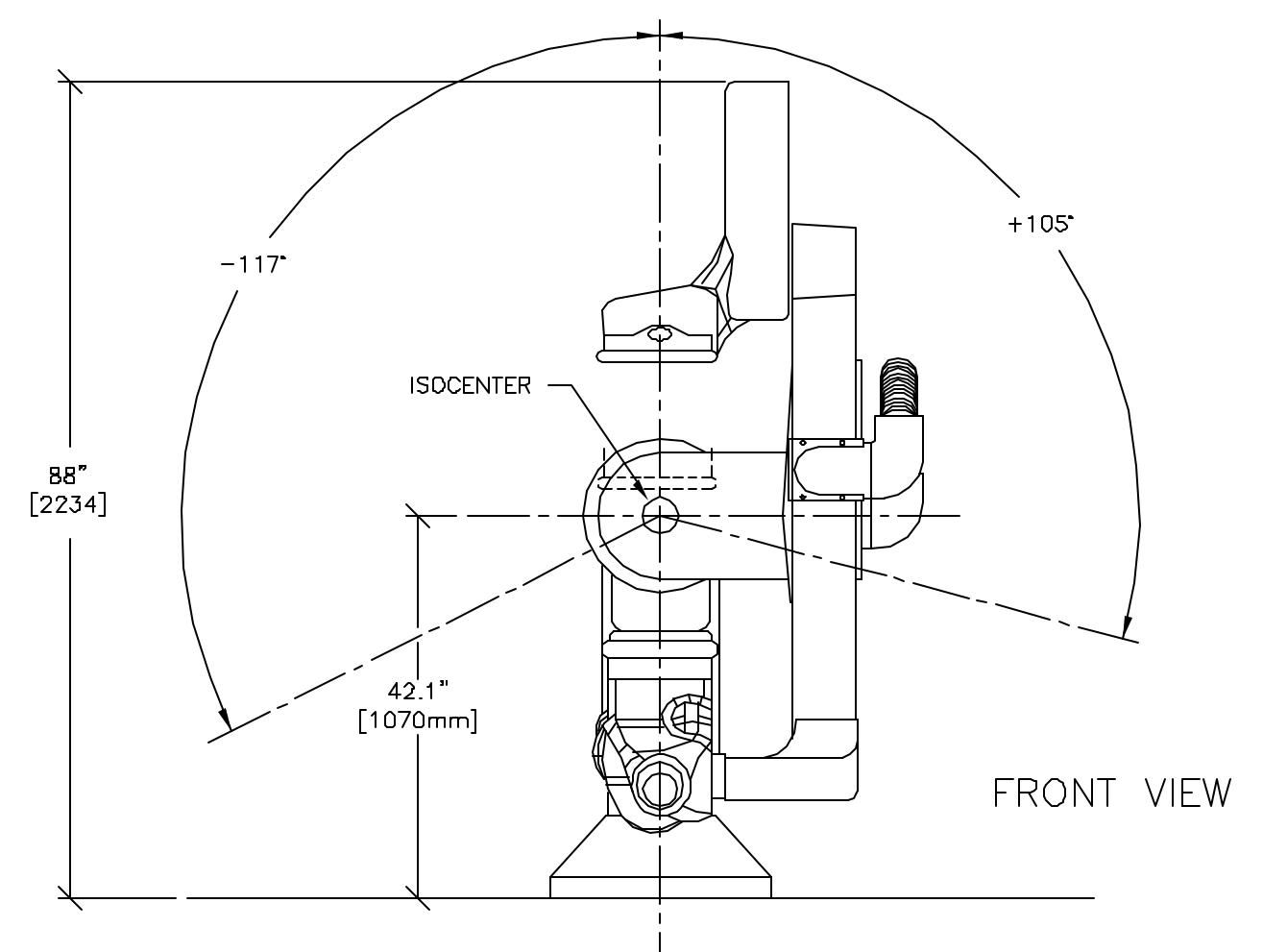


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
INNOVA 2100/3100/4100 VASCULAR SYSTEM

B5050B

REV. DATE: 06/07/05



DRAWING NOT TO SCALE

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Milwaukee, Wisconsin

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MODALITY TYPE: INNOVA 3100/ 4100
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TYPICAL SPECIAL PROCEDURES 4-58F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
4-58F	02
DATE:	10-08-07
DRAWN BY:	LLM
CHECKED BY:	TST

REVISION HISTORY:

SHEET
D1

EQUIPMENT DETAIL
INNOVA 3100/4100 VASCULAR SYSTEM
B5050
 REV. DATE: 02/22/05

PLAN VIEW

SHIPPING DIMENSIONS:
 110"L x 45.5"W x 77"H
 [2790mmL x 1160mmW x 1950mmH]
 (ON DOLLY)
 WIDTH IS REDUCED TO 34" [865mm]
 BY REMOVING SIDE RAILS

DRAWING NOT TO SCALE

EQUIPMENT DETAIL
UPS INTERFACE BOX
E4502IB
 REV. DATE: 07/11/05

BOTTOM VIEW

PLAN VIEW

FRONT VIEW

FRONT VIEW (COVER OFF)

DETAIL NOT TO SCALE

EQUIPMENT DETAIL
INNOVA 2100 FILTER ENCLOSEURE
S1875PC
 REV. DATE: 11/29/05

FRONT VIEW

SIDE VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL
DIGITAL ENERGY SG SERIES 10-20KVA UPS
E4502SG
 REV. DATE: 05/10/05

TOP VIEW

FRONT VIEW

SIDE VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL
INNOVA 2100 MAIN DISCONNECT PANEL
E45-02AB
 REV. DATE: 12/13/05

TOP VIEW

FRONT VIEW

BOTTOM VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL
INNOVA DETECTOR COOLER
B5049F
 REV. DATE: 8/01/00

PLAN VIEW

SIDE VIEW

FRONT VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL
COOLIX 4000 RECIRCULATING CHILLER
M0917B
 REV. DATE: 05/17/05

SHIPPING DIMENSIONS:
 41" (1040mm) D x 34.8" (870mm) W x 53" (1350mm) H

PLAN VIEW

SIDE VIEW

FRONT VIEW

REAR VIEW

DETAIL NOT TO SCALE

TYPICAL CONTROL ROOM
SINGLE PLANE INNOVA
B5050C
 REV. DATE: 10/08/07

ADVANTAGE WINDOWS WORKSTATION

INNOVA CONSOLE

DL CONTROL MONITOR

IVUS VOLCANO WORKSTATION

PHYSIO MONITORING WORKSTATION

DETAIL NOT TO SCALE

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 Installation Services Design Center
 Milwaukee, Wisconsin

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 TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
4-58f	02
DATE:	10-08-07
DRAWN BY:	LLM
CHECKED BY:	TST

REVISION HISTORY:

SHEET
D2