Drawing Index

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

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 *

Infinia 1

Preinstallation Manual

2332349-100

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

Nuclear Medicine 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** **GEHC Minimum Requirements**	**Storage:** Is item ready?	**Predict (Pre-ship)** Is this item ready?	**Predict (Pre-ship)** 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: INFINIA I

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

PROJECT TITLE: TYPICAL FINAL INSTALLATION DRAWING

PROJECT	REVISION
7-56F	00

DATE: 06-10-08
DRAWN BY: CPC
CHECKED BY: CPC

REVISION HISTORY:

SHEET C1

cssh0507

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.

EQUIPMENT CROSS REFERENCE CHART

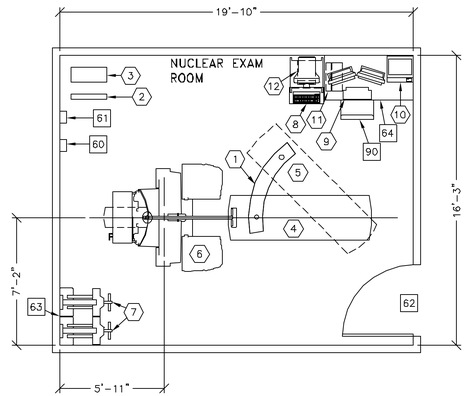
SEISMIC STATUS: P = PREAPPROVAL; C = CALCULATIONS/ PENDING APPROVAL; S = SPECIFICATIONS ONLY

ITEM NO.	QUANTITY ORDERED	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN	SEISMIC STATUS
1	1	TABLE SWING PLATE FOR COLLIMATOR EXCHANGE				.		-
2	1	UPS CONTROL CABINET	39 lbs	1740 btu		-	UPS	-
3	1	UPS BATTERY CABINET	198 lbs			-	BAT	-
4	1	IMAGING TABLE	881 lbs	341 btu		.	NMT	S
5	1	TABLE SWING FOR COLLIMATOR EXCHANGE				.		-
6	1	INFINIA I IMAGING SYSTEM GANTRY	6172 lbs	7167 btu	H2504LX	H30 00X	NMC	C
7	2	COLLIMATOR STORAGE CART	1058 lbs		H2504LB	.		-
8	1	ACQUISITION MOBILE CART INCLUSIVE OF MONITOR AND KEYBOARD	180 lbs	1604 btu	H2508KE	.	AC	S
9	1	XELERIS WORKSTATION	55 lbs		M1014AW	.	WS	S
10	1	COLOR PRINTER				.	CP	S
11	1	UPS SYSTEM	33 lbs	4436 btu	R4504AA	.	UPS1	S
12	1	R-WAVE TRIGGER UNIT	19 lbs	170 btu	H2505EC	.	ECG	S

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

SCALE: 1/4" = 1'-0" EQUIPMENT LAYOUT RECOMMENDED CEILING HEIGHT = 8'-0"

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



ANCILLARY ITEMS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO. ☐	ITEM DESCRIPTION (* INDICATES EXISTING)
60	MAIN DISCONNECT CONTROL, GE CAT. NO. E4502SN
61	DISCONNECT
62	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 45 IN. W x 80 IN. H [1143mm x 2083mm], CONTINGENT ON A 84 IN. [2134mm] CORRIDOR WIDTH
63	OPTIONAL WALL PROTECTION FROM COLLIMATOR CART. ALSO, FINISHED FLOORING COULD BE SUBJECT TO DAMAGE DURING MOVEMENT AND BEING PARKED FOR A LONG PERIOD. SUFFICIENT FLOORING MUST BE USED TO PREVENT DAMAGE.
64	TABLE

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

90	OPERATORS CHAIR

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 ACCOMODATE 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: 68° TO 77° F [20° to 25° C], MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 5° F [3° C] /HOUR.
- DO NOT PLACE CAMERA NEAR REGISTERS, WINDOWS OR OTHER COMPONENTS THAT COULD AFFECT TEMPERATURE LEVEL CHANGES IN CAMERA VICINITY.
- HUMIDITY: 40 TO 60 PERCENT NON-CONDENSING, MAXIMUM ALLOWABLE CHANGE OF 10 PERCENT/HOUR.
- ELECTROSTATIC DISCHARGE IS KNOWN TO CAUSE SEVERE DAMAGE TO SOPHISTICATED ELECTRONICS. STATIC CHARGES ASSOCIATED WITH LOWER HUMIDITY LEVELS (BELOW 40%) MAY INTERFERE WITH SYSTEM OPERATION.
- ALTITUDE: NOT TO EXCEED 8000 FT. [2438 m] ABOVE SEA LEVEL.
- THE ENVIRONMENT FOR THE ELECTRONICS CABINET/CPU MUST BE CONTROLLED SO THE ABOVE RESTRICTIONS ARE NOT EXCEEDED.
- BACKGROUND RADIATION SHOULD BE KEPT TO A MINIMUM. RADIOACTIVE SOURCES MUST BE KEPT IN SHIELDED CONTAINERS AND THE EXAMINATION ROOM SHIELDED FROM EXTERNAL SOURCES (FOR EXAMPLE X-RAY AND CT SYSTEMS, AND PATIENTS UNDERGOING TREATMENT).

MAGNETIC INTERFERENCE SPECIFICATIONS

NUCLEAR CAMERA DETECTORS MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 0.5 GAUSS TO GUARANTEE SPECIFIED IMAGING PERFORMANCE.

NUCLEAR COMPUTER EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 10 GAUSS TO GUARANTEE DATA INTEGRITY.

MULTIFORMAT CAMERA MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 3 GAUSS TO OBTAIN SPECIFIED GEOMETRIC LINEARITY.

NUCLEAR DIAGNOSTIC CONSOLE MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 1 GAUSS IF CONSOLE HAS A COLOR DISPLAY AND 10 GAUSS IF MONOCHROME, TO OBTAIN SPECIFIED GEOMETRIC LINEARITY AND FREEDOM FROM COLOR DISTORTION.

GE Healthcare Technologies
Installation Services Design Center
Wisconsin
Milwaukee,

SHEET TITLE: EQUIPMENT LAYOUT

MODALITY TYPE: INFINIA I

PROJECT TITLE: TYPICAL FINAL INSTALLATION DRAWING

PROJECT	REVISION
7-56F	00

DATE: 06-10-08
DRAWN BY: CPC
CHECKED BY: CPC

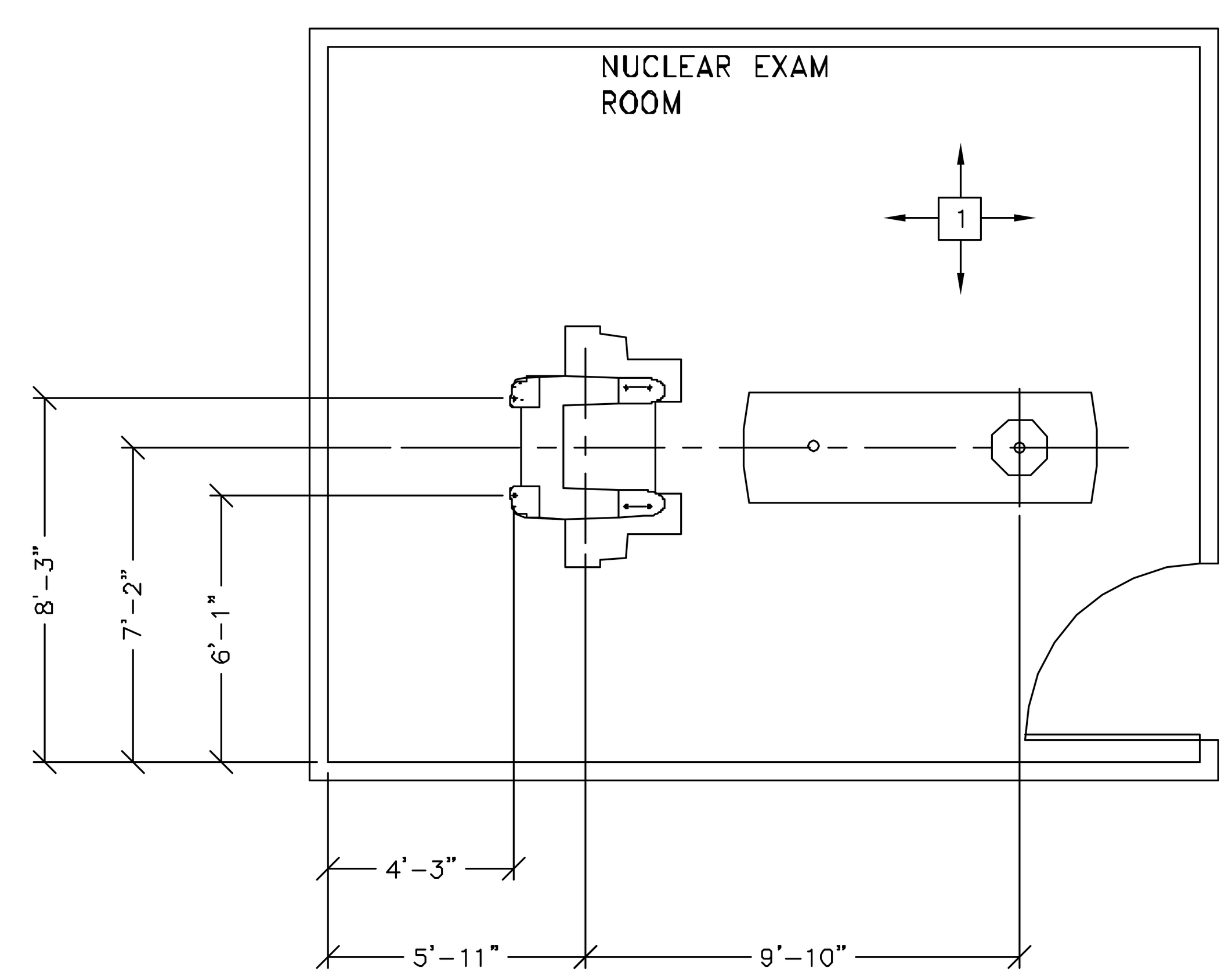
REVISION HISTORY:

SHEET A1

NFSH-1002

TYPICAL WALL SUPPORT ELEVATIONS

SCALE: 1/4" = 1'-0" | STRUCTURAL LAYOUT | RECOMMENDED CEILING HEIGHT = 8'-0"



STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	FLOOR LEVELNESS IN THE EXAM ROOM MUST BE LEVEL WITHIN 3/16 IN. [5 MM] OVER 170 IN. [4318 MM]. SEE DETAIL H3000X ON SHEET S2. FLOOR FLATNESS IN THE EXAM ROOM MUST HAVE NO DEVIATIONS GREATER THAN 1/16" [1.6 MM] OVER 60 IN. [1524 MM].

STRUCTURAL NOTES

- 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.
- FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO SPECIFICATIONS. (IF NOT SPECIFIED ELSEWHERE ON THIS SHEET THE FLOOR LEVELNESS SHOULD BE 1/8 IN. [3 MM] IN 10 FT. [3.05 M].
- DIMENSIONS ARE TO FINISHED SURFACES OF ROOM.
- FOR SEISMIC REGIONS ENSURE SUPPORTS SPAN THREE MEMBERS.
- 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: INFINIA I

PROJECT TITLE: TYPICAL FINAL INSTALLATION DRAWING

PROJECT	REVISION
7-56F	00

DATE: 06-10-08
DRAWN BY: CPC
CHECKED BY: CPC

REVISION HISTORY:

SHEET S1

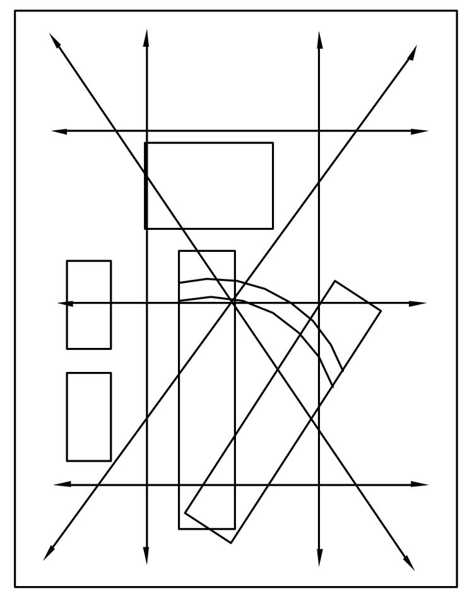
NFSH-1002

SUPPORT DETAIL

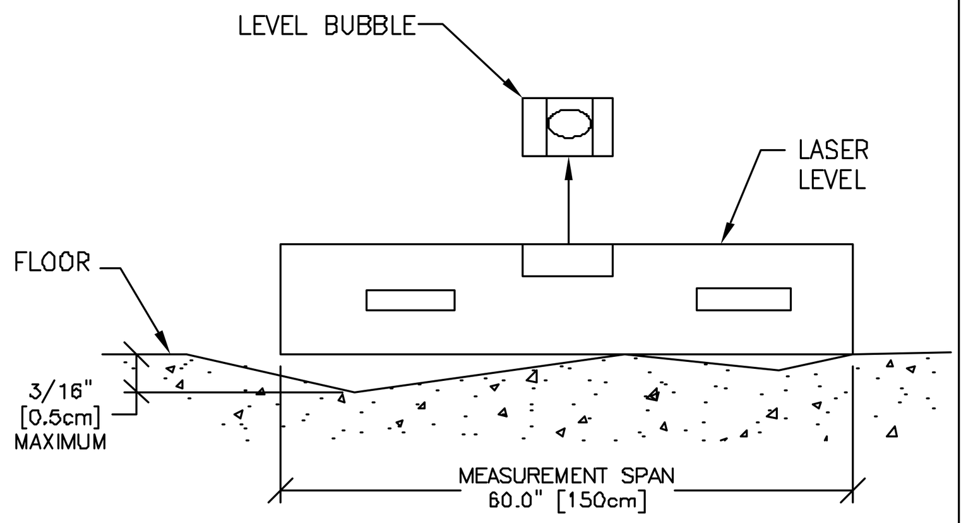
B3000X

LEVELING AND FLATTENING FLOOR AREA DETAIL

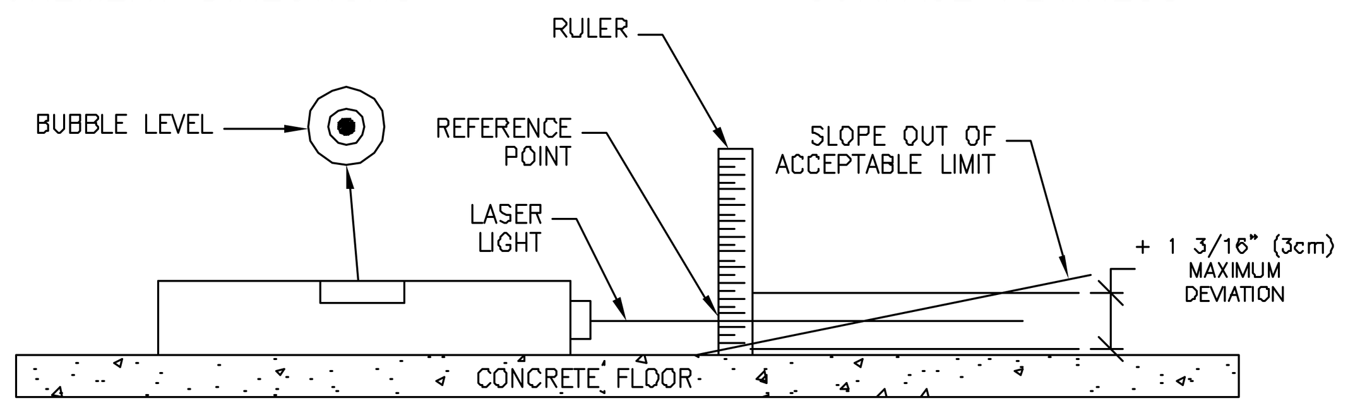
REV. DATE: 09/11/07



MEASUREMENT DIRECTIONS



SURFACE FLATNESS



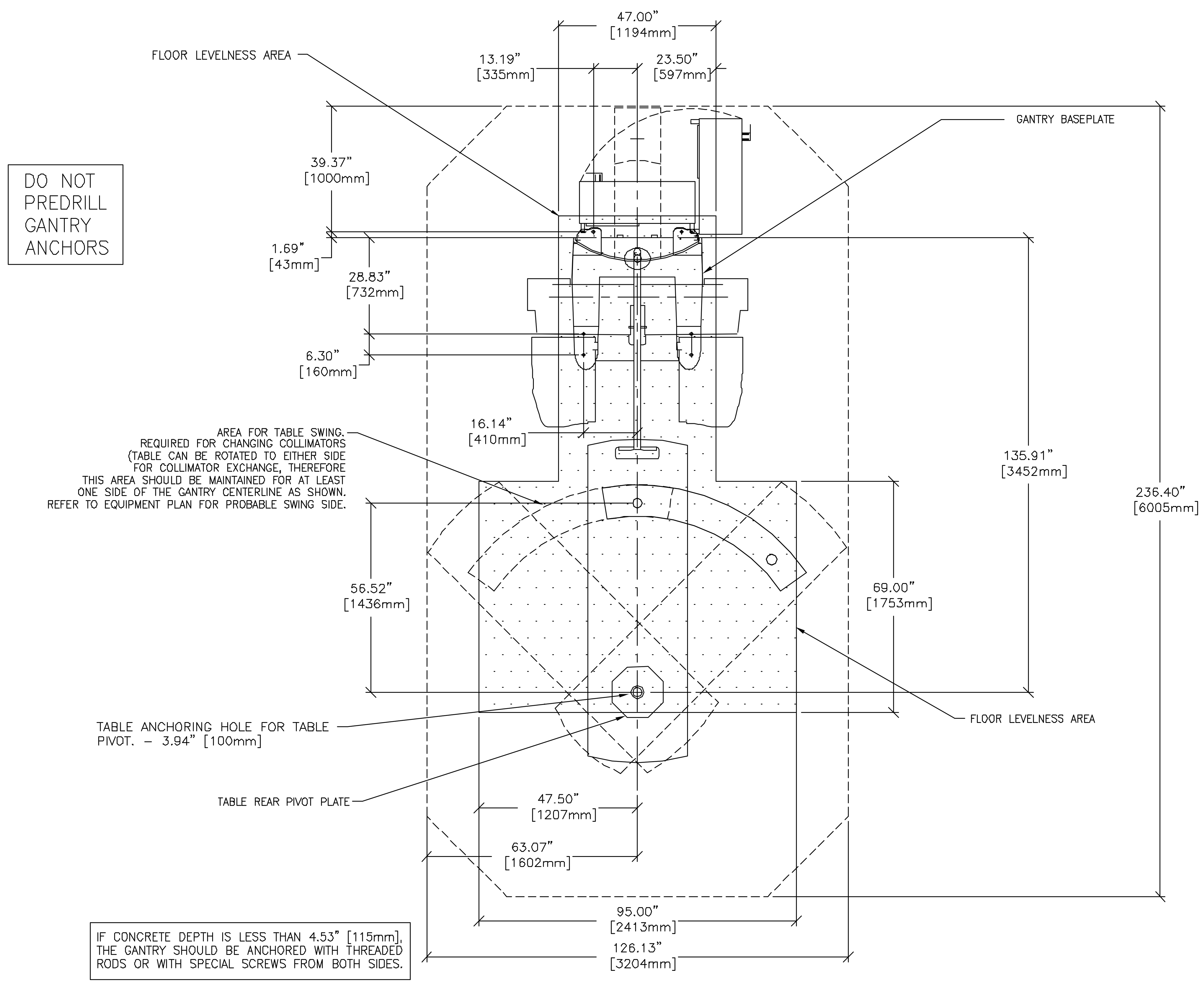
SLOPE MEASUREMENTS

DETAIL NOT TO SCALE

FLOOR MOUNTING DETAIL: INFINIA IMAGING SYSTEM

H30-00X

REV. DATE: 09/0403



DETAIL NOT TO SCALE

DETAIL FOR MARKING THE INFINIA SYSTEM WORKING AREA

H3000X2

REV. DATE: 09/11/07

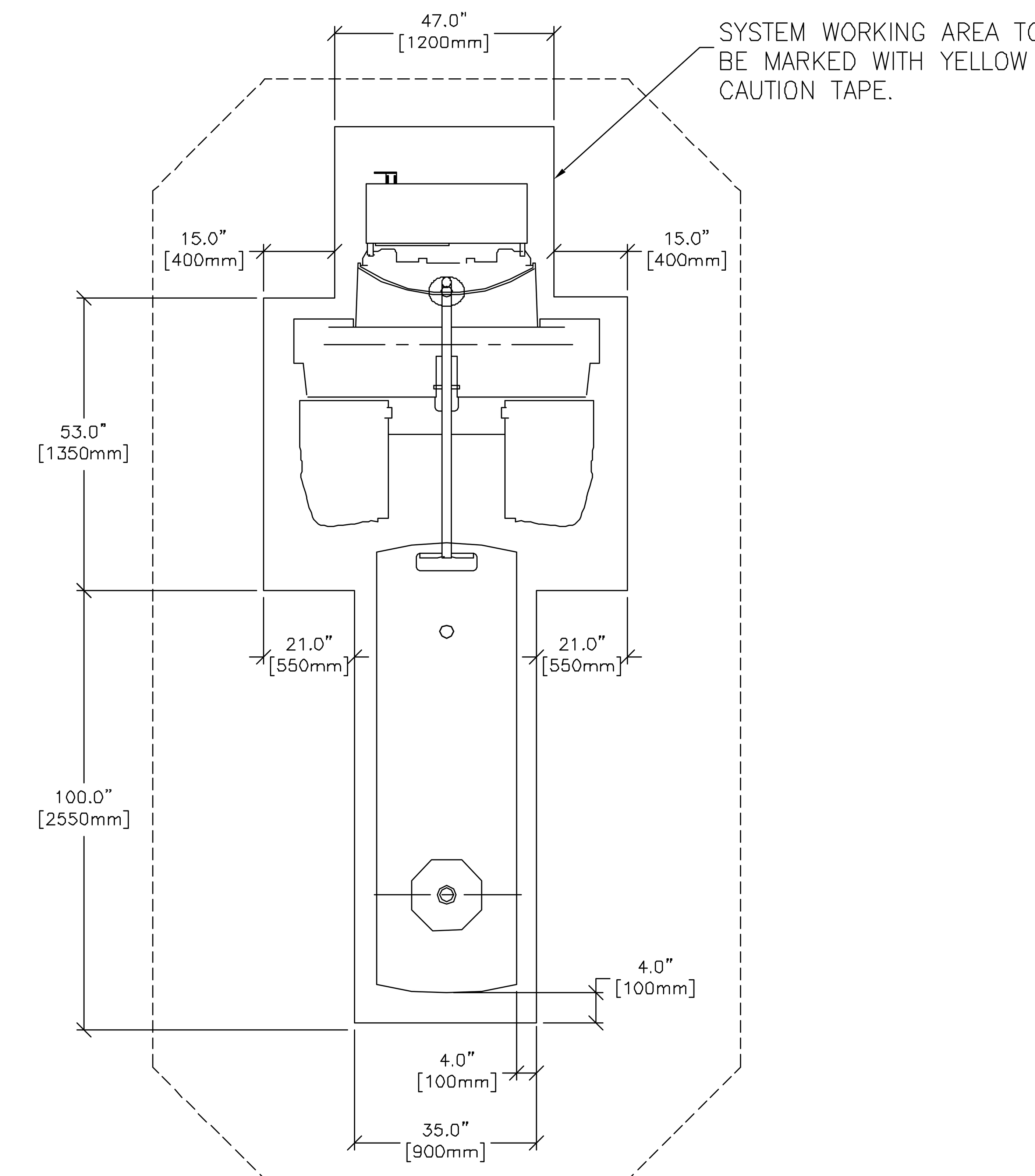
NOTE: CONSULT PRE INSTALLATION MANUAL FOR FLOOR LEVELNESS AREA.

CAUTION

THE SYSTEM WORKING AREA IS A "CAUTION AREA" INSIDE WHICH ONLY AUTHORIZED PERSONNEL ARE PERMITTED ACCESS. NO UNAUTHORIZED PERSONS ARE ALLOWED INSIDE THIS AREA.

THE FLOOR CLEARANCE AREA SHOULD BE CLEARLY MARKED OFF AROUND THE CAMERA TO PREVENT OBSTACLES (FOR EXAMPLE WHEEL CHAIRS) FROM GETTING TOO CLOSE AND COLLIDING WITH THE SYSTEM DURING ITS AUTOMATIC OPERATION.

NO ITEMS OF ANY KIND MAY BE PRESENT WITHIN THIS AREA DURING THE AUTOMATIC OPERATIOIN OF THE SYSTEM.



DETAIL NOT TO SCALE

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: INFINIA I

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

PROJECT TITLE: TYPICAL FINAL INSTALLATION DRAWING

PROJECT	REVISION
7-56F	00

DATE: 06-10-08
DRAWN BY: CPC
CHECKED BY: CPC

REVISION HISTORY:

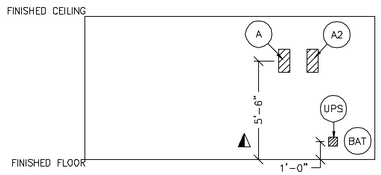
SHEET
S2

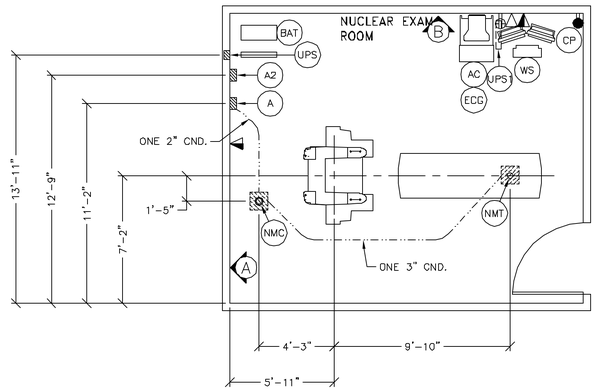
NFSH-1002

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

ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 8'-0"





FEEDER TABLE – INFINIA SYSTEM

- CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- RECOMMENDED FEEDER SIZES FROM POWER SOURCE TO MAIN DISCONNECT.
- THE GROUNDING CONDUCTOR WILL BE THE SAME SIZE AS THE POWER FEEDER. THIS GROUND WILL RUN FROM THE EQUIPMENT BACK TO THE FACILITY POWER SOURCE/MAIN GROUNDING POINT AND ALWAYS TRAVEL IN THE SAME CONDUIT WITH THE FEEDERS AND NEUTRAL.
- FOR A FULL SYSTEM UPS REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE	
	187–229 208 (60 Hz)	360–440 400 (50 Hz)
	SIZE OF FEEDERS AND GROUND WIRES (AWG)	
50	10	12
100	10	12
150	8	12
200	6	12
250	6	12

REV. DATE: 02/25/06

ELECTRICAL OUTLET LEGEND

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

- DUPLEX HOSPITAL GRADE, DEDICATED OUTLET 120-V, SINGLE PHASE OUTLET SAME FEEDER CIRCUIT AS "A" PANEL
- DUPLEX HOSPITAL GRADE, DEDICATED OUTLET 120-V, SINGLE PHASE OUTLET 20 AMP
- DEDICATED TELEPHONE LINE(S) (SEE ELECTRICAL DETAIL ELEC-1)
- NETWORK OUTLET (SEE ELECTRICAL DETAILS ELEC-83 AND ELEC-84)

CONDUIT LEGEND

— · — · — BELOW FLOOR CONDUIT

JUNCTION POINT NOTES

- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMERS ELECTRICAL CONTRACTOR.
- CONDUIT AND DUCT RUNS SHALL HAVE SWEEP RADIUS BENDS
- CONDUITS AND DUCT ABOVE CEILING OR BELOW FINISHED FLOOR MUST BE INSTALLED AS NEAR TO CEILING OR FLOOR AS POSSIBLE TO REDUCE RUN LENGTH.
- CEILING MOUNTED JUNCTION BOXES ILLUSTRATED ON THIS PLAN MUST BE INSTALLED FLUSH WITH FINISHED CEILING.
- ALL DUCTWORK MUST MEET THE FOLLOWING REQUIREMENTS:
  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.
- ALL OPENINGS IN ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED OFF WITH GROMMET MATERIAL BY THE CUSTOMERS CONTRACTOR.
- GENERAL CONTRACTOR TO INSERT PULL CORDS FOR ALL CABLE RUN CONDUITS BETWEEN THE EQUIPMENT ROOM AND THE OPERATORS CONTROL ROOM.
- 10 FOOT PIGTAILS AT ALL JUNCTION POINTS. NO ALUMINUM OR SOLID WIRES.
- ALL WIRING MUST BE THHN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT UNLESS OTHERWISE STATED.
- GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. SITE MUST CONFORM TO WIRING SPECIFICATIONS SHOWN ON THIS PLAN.

PLEASE SEE BELOW FOR ADDITIONAL REQUIRED CONDUIT RUNS AND SIZES.

ADDITIONAL CONDUIT RUNS FOR NUCLEAR SYSTEM (BY CONTRACTOR)

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

REV DATE: 01/01/08

A2	TO	UPS	CONDUIT AS REQ'D
UPS	TO	A	CND AS REQ'D REFER SIZE PER FEEDER TABLE
A2	TO	208-V 3Ø 35 AMP POWER	CONDUIT AS REQ'D

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

JUNCTION POINT DESCRIPTIONS

POINT	DESCRIPTION	QTY.	THE FOLLOWING MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER'S ELECTRICAL CONTRACTOR — HARDWARE	DETAIL NO., SHT. E3
A	MAIN DISCONNECT AVAILABLE FROM GEMSG, CALL: 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MANAGER	1	30-AMP, 208V DISCONNECT WITH LOCKOUT, GEMS CAT. NO. E4502SN NOTE: THE GANTRY IS HARDWIRED.	
A2	DISCONNECT	1 1	NEMA 1 FLUSH MOUNTED ENCLOSURE, WITH INSULATED GROUNDABLE NEUTRAL 35 AMP 208V FRONT OPERATED FUSED SAFETY SWITCH OR CIRCUIT BREAKER, PROVIDE LOCKOUT.	ELEC-130
AC	ACQUISITION MOBILE CART	1	EXTERNALLY CONNECTED	
BAT	UPS BATTERY CABINET	1	EXTERNALLY CONNECTED	
CP	COLOR PRINTER	1	EXTERNALLY CONNECTED	
ECG	ECG SYNCRONIZER	1	EXTERNALLY CONNECTED	
NMC	NUCLEAR MEDICINE CAMERA	1 1 1 1	COVERPLATE 4 IN. DIA. BUSHING & LOCKNUT 12 X 12 X 6 IN. BOX BELOW FLOOR TERMINATE 4 IN. CONDUIT 1-1/2 IN. ABOVE FINISHED FLOOR	ELEC-85
NMT	IMAGING TABLE	1 1 1	COVERPLATE 12 X 12 X 6 IN. BOX BELOW FLOOR TERMINATE 4 IN. CONDUIT FLUSH WITH FINISHED FLOOR	ELEC-85 ELEC-127
UPS	UPS CABINET	1 1 1 2 4	EXTERNALLY CONNECTED TO BATTERY CABINET COVERPLATE 6 X 6 X 4 IN. BOX 6 FT LENGTH OF 1 IN. FLEXIBLE METAL CONDUIT 1 IN. DIA. BUSHING & LOCKNUT	ELEC-71
UPS1	UPS CABINET	1	EXTERNALLY CONNECTED	
WS	WORKSTATION	1	EXTERNALLY CONNECTED	

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
UPS > A	3-BLACK, 1-GREEN (REFER TO FEEDER TABLE FOR SIZE)
3 PHASE > A2	3-BLACK, 1-WHITE, 1-GREEN (SIZE AS REQUIRED MINIMUM #8 – REFER TO ELECTRICAL DETAIL)
A2 > UPS	3-BLACK, 1-WHITE, 1-GREEN (SIZE AS REQUIRED MINIMUM #8 – REFER TO ELECTRICAL DETAIL)

GE Healthcare Technologies
Installation Services Design Center
Wisconsin
Milwaukee,

SHEET TITLE: ELECTRICAL LAYOUT

MODALITY TYPE: INFINIA I

PROJECT TITLE:

TYPICAL FINAL INSTALLATION DRAWING

PROJECT	REVISION
7-56F	00

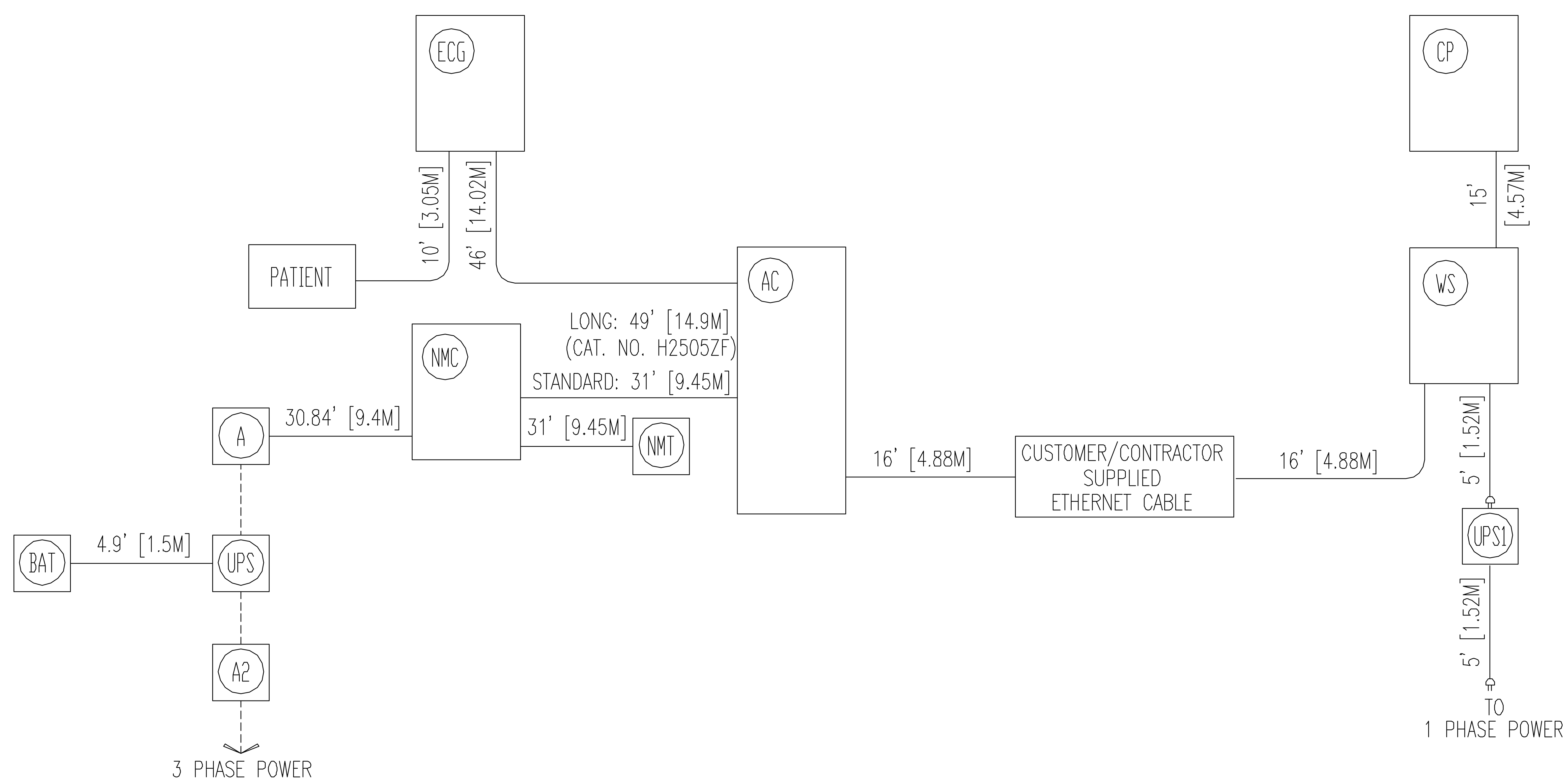
DATE: 06-10-08
DRAWN BY: CPC
CHECKED BY: CPC

REVISION HISTORY:

SHEET E1

NFSH-1002

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

INFINIA SYSTEM

(REV. DATE 02/16/07)

VOLTAGE

PRIMARY DEDICATED THREE PHASE SOURCE IS REQUIRED FOR ALL INSTALLATIONS. RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 208–V 60 Hz OR 400–V 50 Hz, 5 KVA.

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%	MAXIMUM CURRENT (AMPS)	* MINIMUM STANDARD OVERCURRENT PROTECTION
208	187–229	22	40–A

* CIRCUIT BREAKERS SHOULD HAVE A TIME DELAY OF GREATER THAN ONE SECOND TO WITHSTAND SWITCH–ON SURGE.

TRANSIENT

MAXIMUM ALLOWABLE TRANSIENT VOLTAGE EXCURSIONS ARE 5 PERCENT OF RATED LINE VOLTAGE AT A MAXIMUM DURATION OF 5 CYCLES AND FREQUENCY OF 10 TIMES PER HOUR.

VOLTAGE TRANSIENT OR IMPULSE ON THE INCOMING POWER MUST BE HELD TO A MINIMUM. TRANSIENTS CAUSED BY LIGHTNING, SURGES, LOAD SWITCHING, STATIC ELECTRICITY ETC. CAN CAUSE SCAN ABORTS OR, IN EXTREME INSTANCES, COMPONENT FAILURE IN THE COMPUTER SUBSYSTEM.

THE MAXIMUM ALLOWABLE TRANSIENT AMPLITUDE IS 2.5 TIMES THE RMS LINE VOLTAGE. (FILTERS MAY BE REQUIRED IF TRANSIENT LEVEL EXCEEDS THIS VALUE.)

REGULATION

POWER SUPPLY REGULATION MUST BE 4 PERCENT OR BETTER.

POWER SUPPLY TEST

IT IS RECOMMENDED THAT THE POWER SUPPLY BE MONITORED TO ASCERTAIN THE AVERAGE LINE VOLTAGE, SURGES, SAGS, IMPULSES AND FREQUENCY OF THE SUPPLY VOLTAGE. THE ANALYSIS OF A SIMULATED LOAD, USING A POWER SYSTEMS ANALYZER CAPABLE OF THE ABOVE SPECIFICATIONS, SHOULD BE CARRIED OUT OVER A CONTINUOUS SEVEN DAY PERIOD PRIOR TO INSTALLATION. THE RESULTS OF THIS ANALYSIS SHOULD BE REVIEWED WITH THE LOCAL SERVICE REPRESENTATIVE TO DETERMINE WHETHER A VOLTAGE/FREQUENCY STABILIZER, POWER LINE PROTECTOR OR FILTERS ARE REQUIRED TO BE INSTALLED BY THE PURCHASER, AS PART OF THE PREINSTALLATION WORK, TO COMPLY WITH THE ABOVE ELECTRICAL REQUIREMENTS.

EMERGENCY POWER

EMERGENCY POWER IS NOT RECOMMENDED FOR THE SYSTEM. SERIOUS DISRUPTION OF EQUIPMENT OPERATION CAN RESULT FROM POWERLINE DISTURBANCES BY SWITCHING TO EMERGENCY POWER. IF CONTINUOUS OPERATION IS REQUIRED AN ON–LINE TYPE UPS IS RECOMMENDED. EMERGENCY POWER RECOMMENDED IS THE LIGHTING IN THE ROOM TO ALLOW SAFE EVACUATION OF THE PATIENT AND PERSONNEL.

NOTE:

THESE SPECIFICATIONS APPLY TO THE BASE SYSTEM. IF AN OPTIONAL FULL SYSTEM UPS IS APPLIED WITH THIS SYSTEM THE POWER REQUIREMENTS MAY VARY.

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 DISTRITBUTION 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 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.

DIAGRAM KEY

– – – –	CUSTOMER/CONTRACTOR SUPPLIED WIRING. ROUTE IN ADEQUATE CONDUIT OR RACEWAY.
———	GE FURNISHED CABLE RUNS. ROUTE IN EMPTY CONDUIT OR RACEWAY.
59' [18M]	MAXIMUM RUN LENGTH BETWEEN JUNCTION POINTS. Feet [Meters]

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL SPECIFICATIONS
MODALITY TYPE: INFINIA I

PROJECT TITLE: TYPICAL FINAL INSTALLATION DRAWING

PROJECT	REVISION
7–56F	00

DATE: 06–10–08
DRAWN BY: CPC
CHECKED BY: CPC

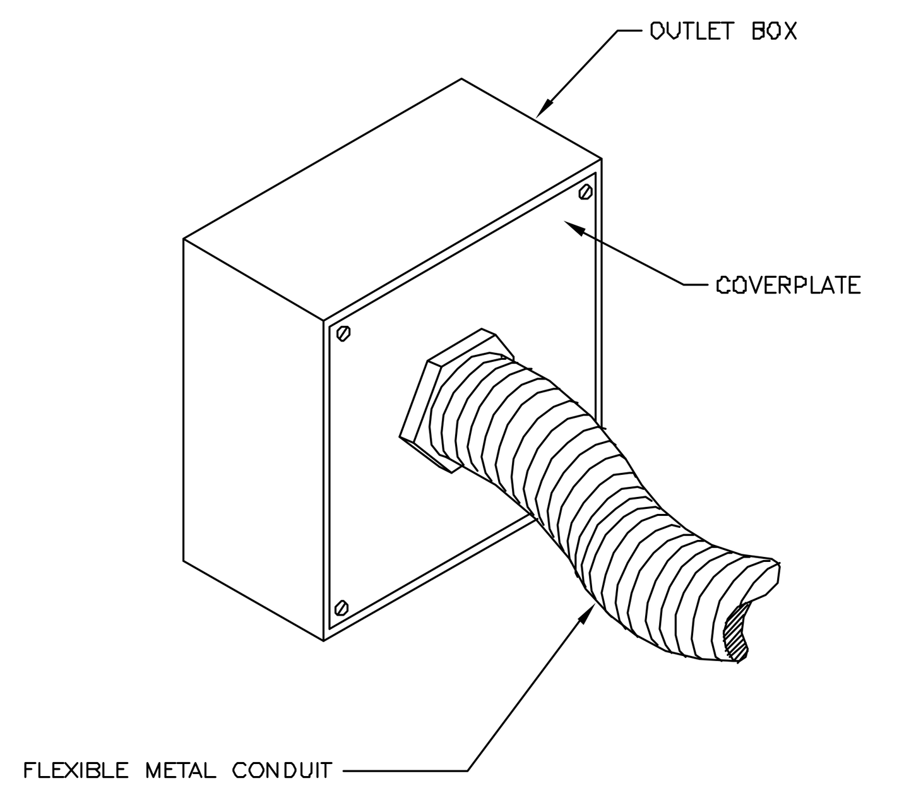
REVISION HISTORY:

SHEET
E2

NFSH–1002

ELECTRICAL DETAIL
BOX WITH COVERPLATE (TYPICAL)

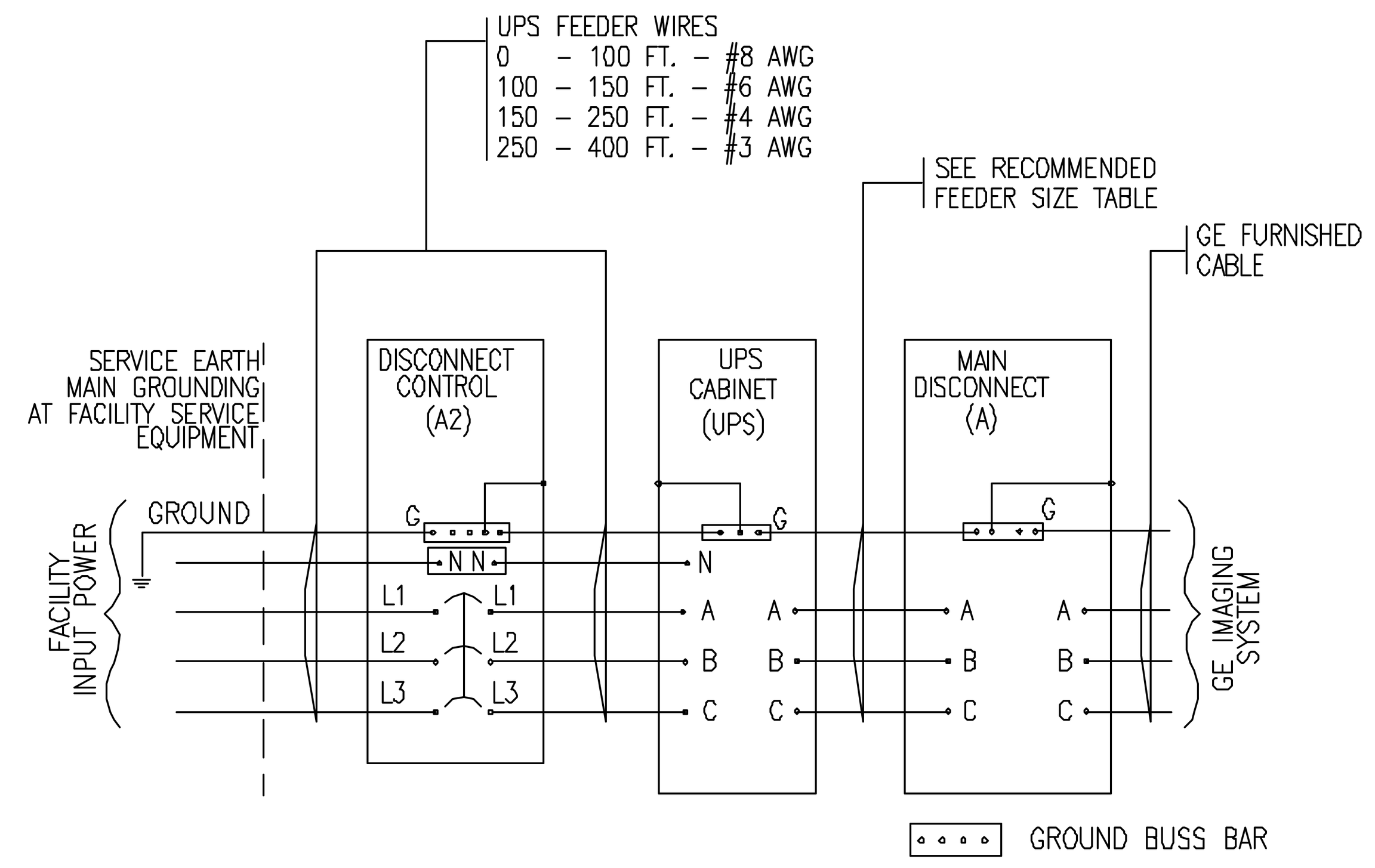
ELEC-71
REV. DATE: 06/04/96



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
10 KVA UPS SETUP CONNECTION

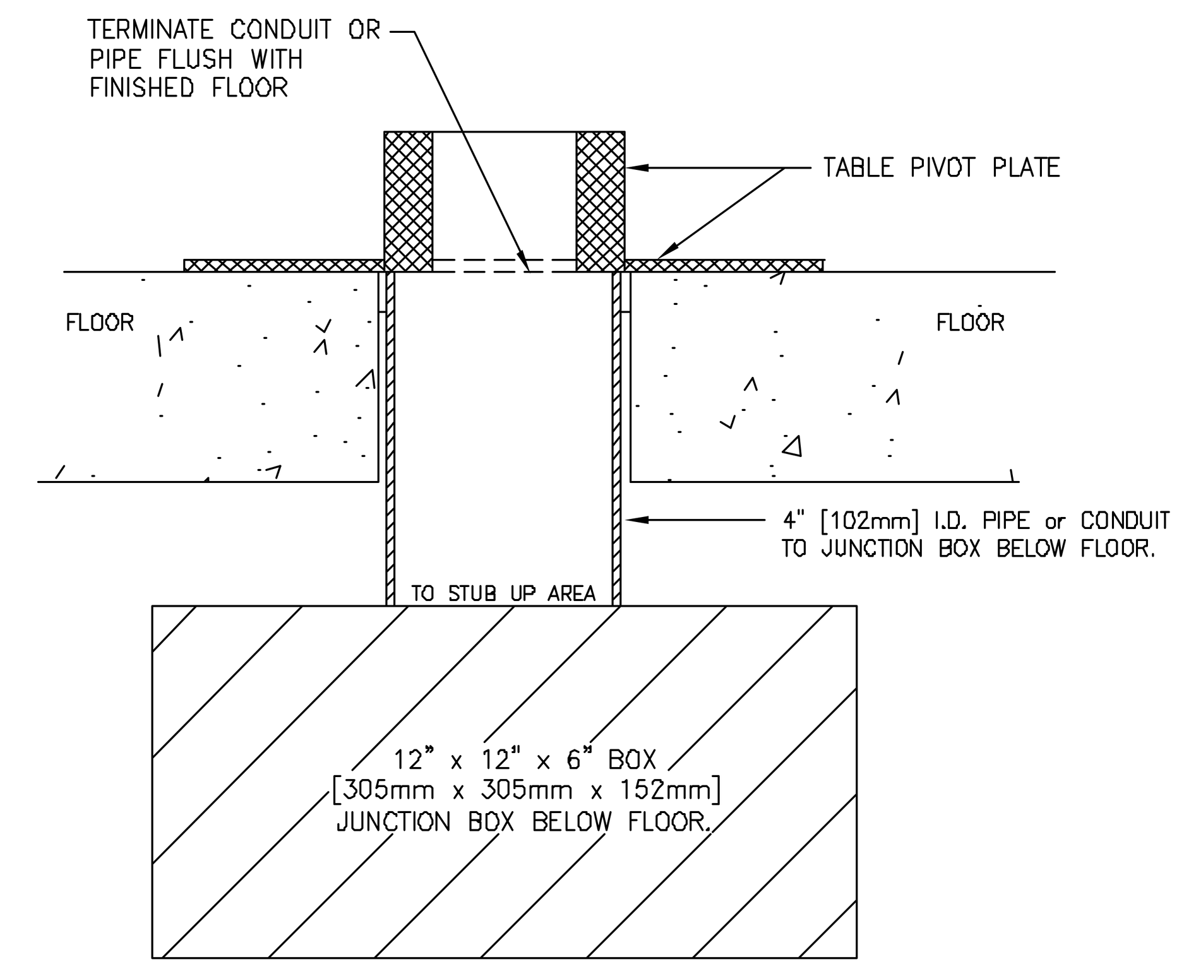
ELEC-130
REV. DATE: 12/08/03



REFER TO VENDOR DOCUMENTATION FOR COMPLETE INFORMATION.

ELECTRICAL DETAIL
TABLE INTERCONNECT DETAIL

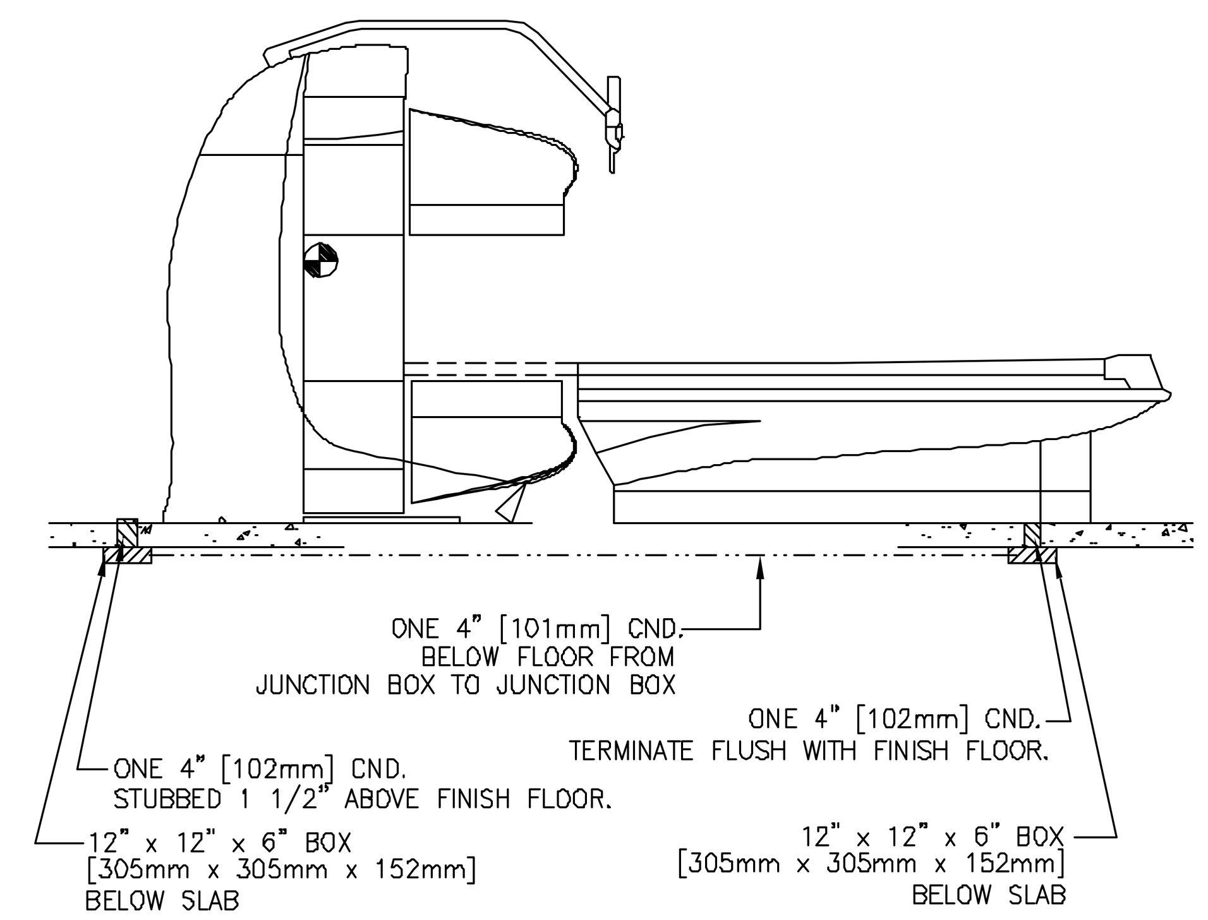
ELEC-127
REV. DATE: 02/21/07



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
MILLENNIUM BOX MOUNTING

ELEC-85
REV. DATE: 06/14/07



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
INSITE CONNECTION (TYPICAL)

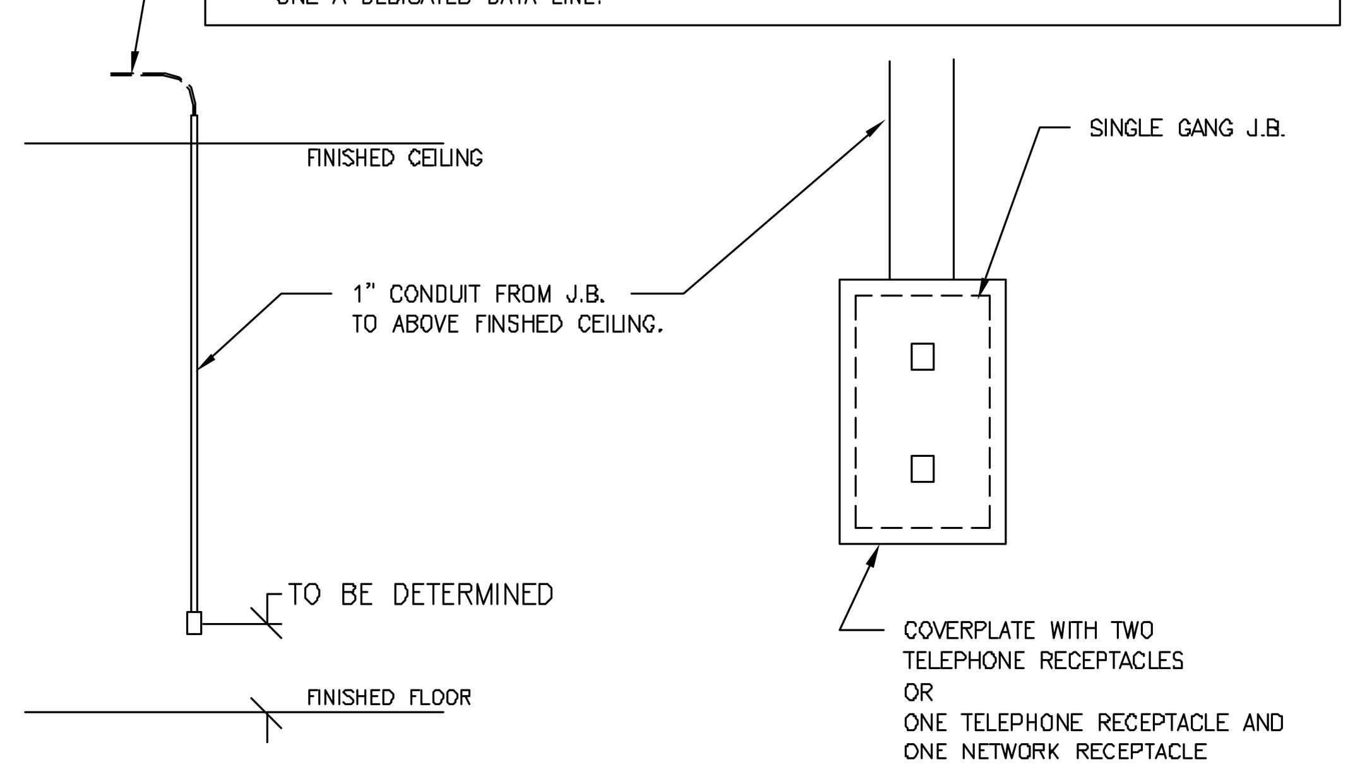
ELEC-1
REV. DATE: 04/24/02

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

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

OR

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

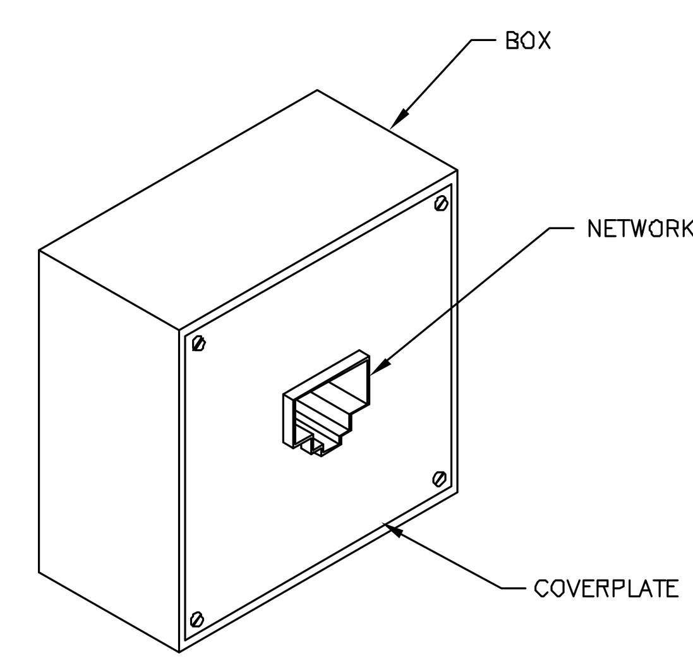


ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER OR THEIR CONTRACTOR.

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
BOX WITH COVERPLATE AND NETWORK JACK

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

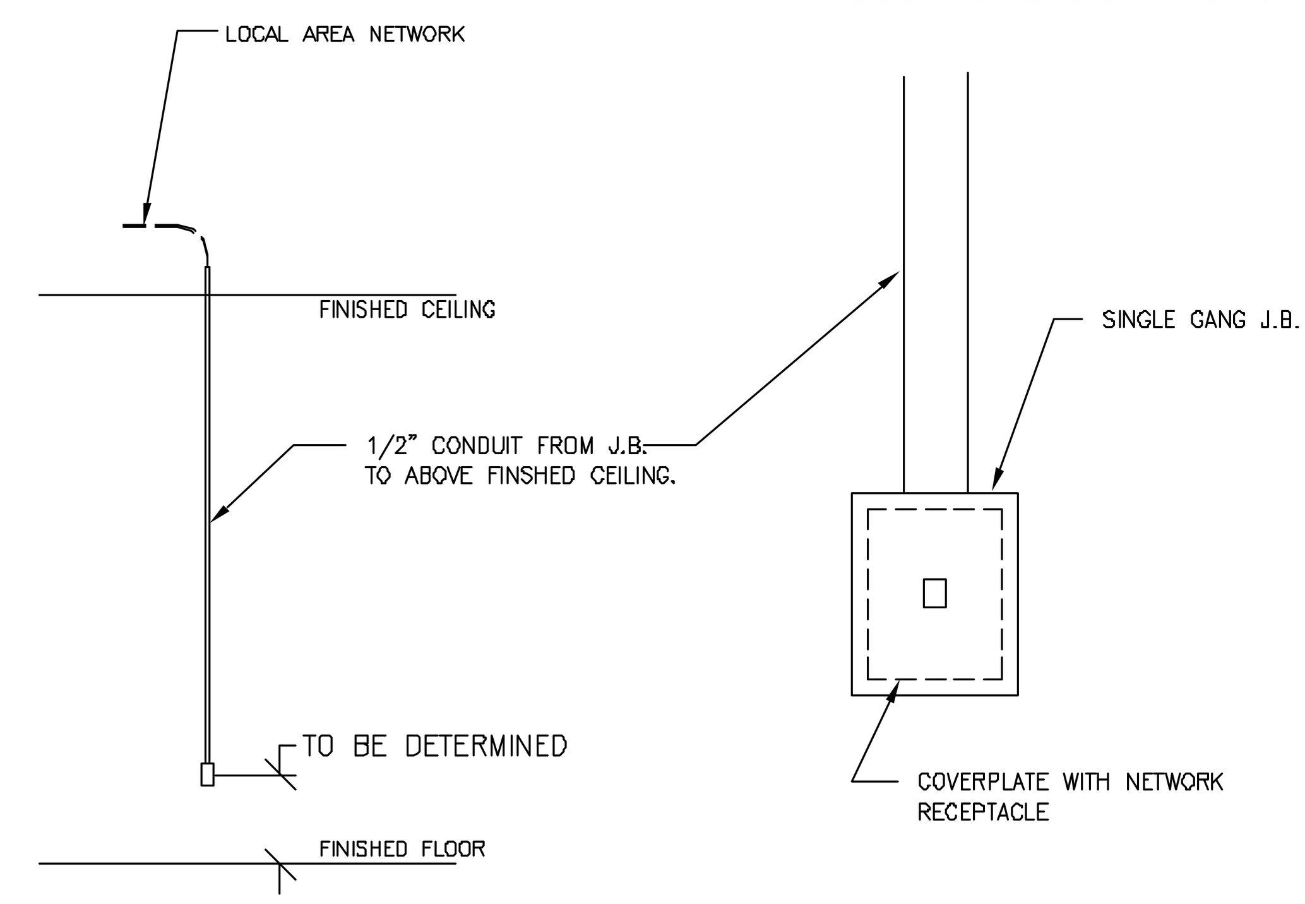


DETAIL NOT TO SCALE

ELECTRICAL DETAIL
NETWORK CONNECTION (TYPICAL)

ELEC-84
REV. DATE: 03/06/04

* FOR NUCLEAR SYSTEMS A DIRECT NETWORK CONNECTION IS TO BE MADE BETWEEN THE SYSTEM AND THE REVIEW WORKSTATION.



DETAIL NOT TO SCALE

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 DETAILS
MODALITY TYPE: INFINIA I

PROJECT TITLE: TYPICAL FINAL INSTALLATION DRAWING

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7-56F	00

DATE: 06-10-08
DRAWN BY: CPC
CHECKED BY: CPC

REVISION HISTORY:

SHEET
E3

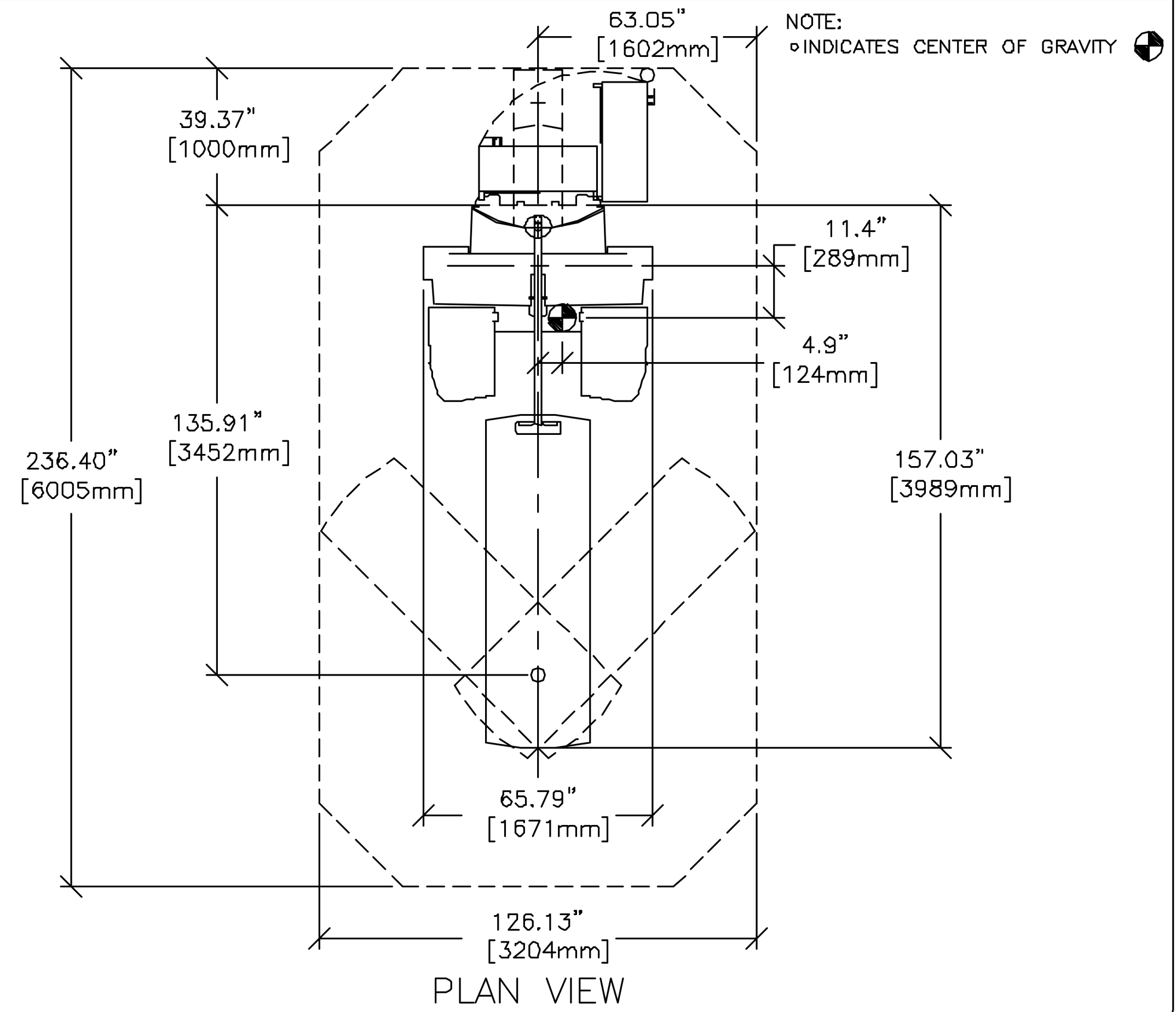
NFSH-1002

EQUIPMENT DETAIL
INFINIA GANTRY AND TABLE

H25-04LX

REV. DATE: 01/18/08

NOTE:
⊕ INDICATES CENTER OF GRAVITY



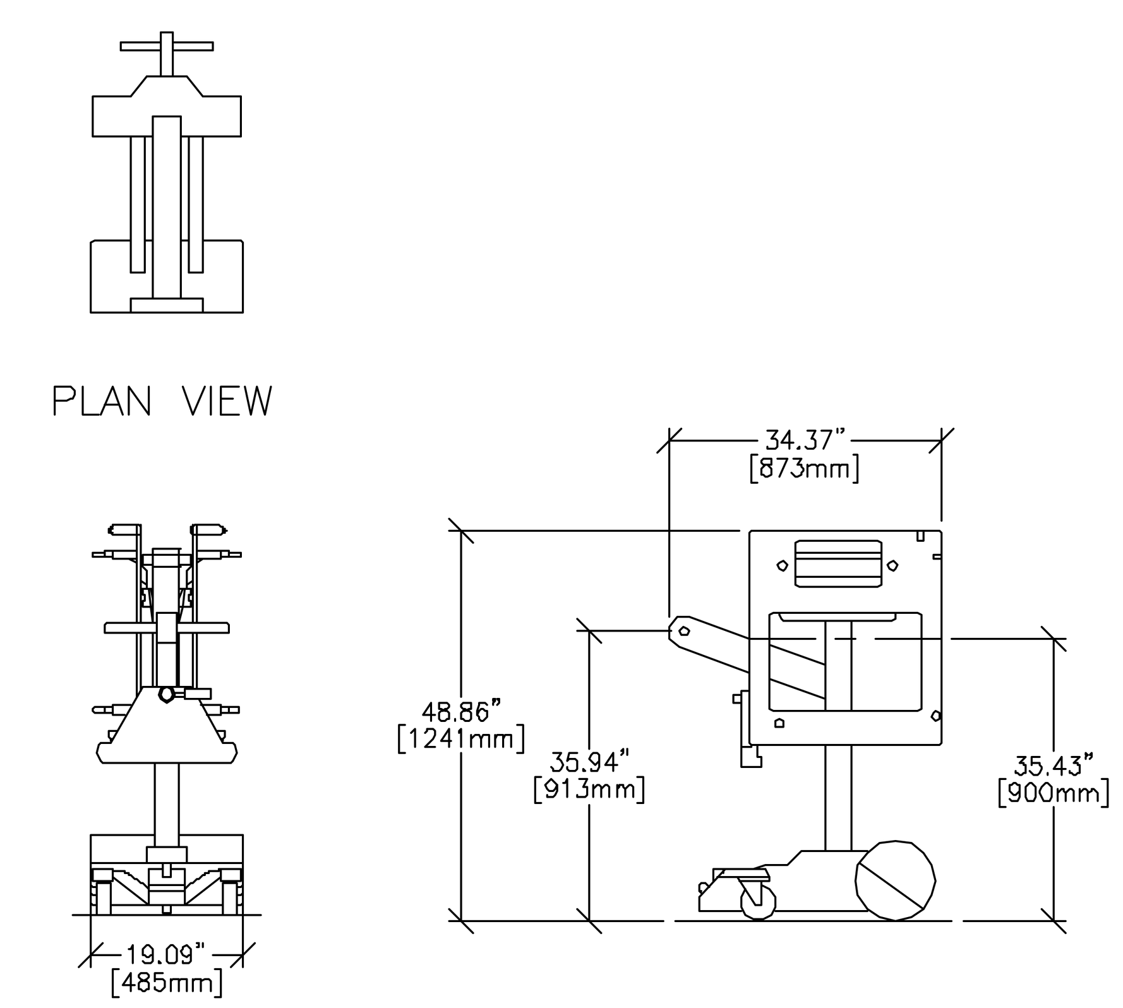
PLAN VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL
MILLENNIUM VG COLLIMATOR CART

H25-04LB

REV. 0: 9/9/97

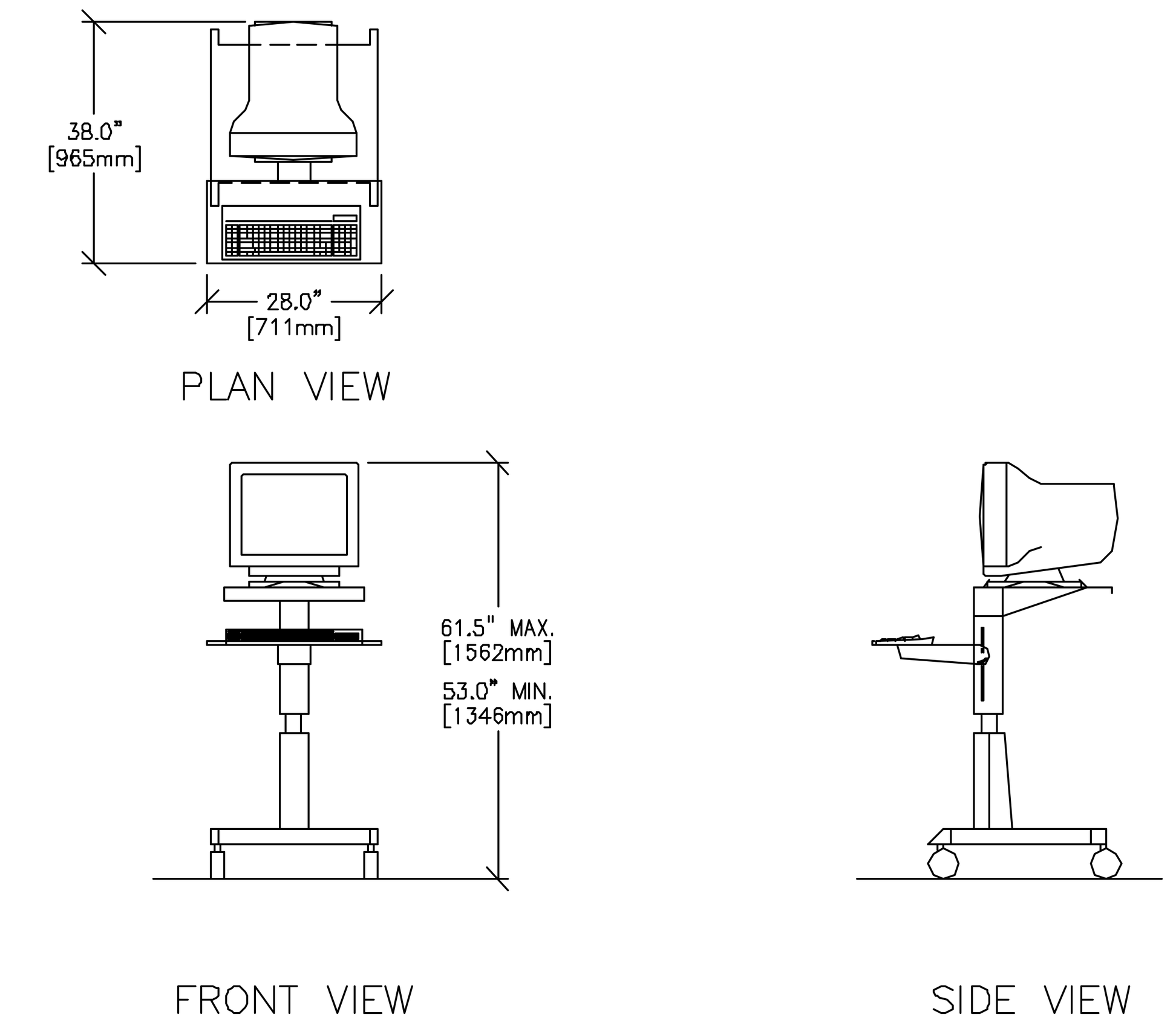


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
MILLENIUM ACQUISITION STATION

H2508KE

REV. DATE: 05/16/96

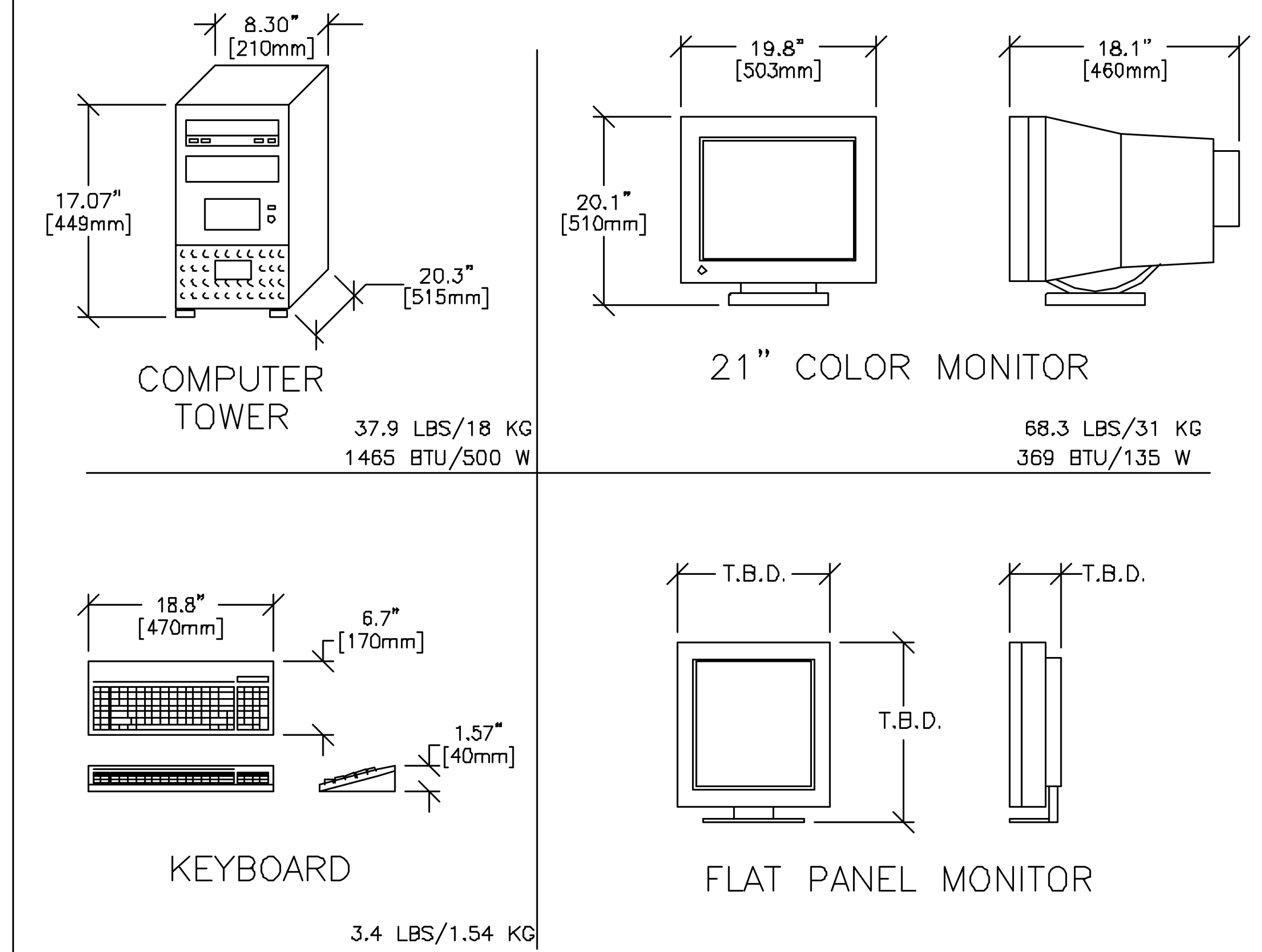


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
XELERIS WORKSTATION

M1014AW

REV. DATE: 01/24/08

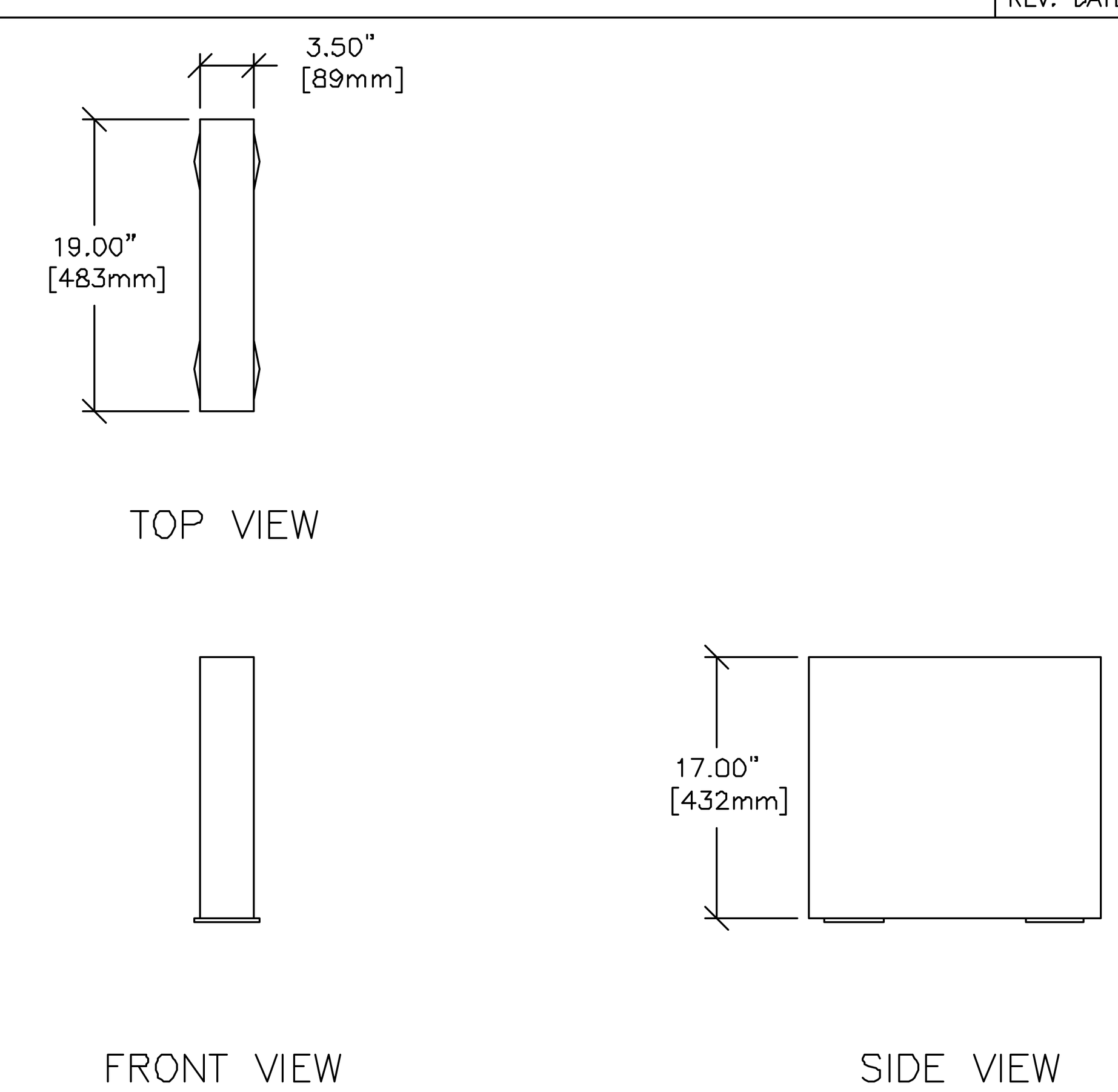


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
UNINTERRUPTIBLE POWER SUPPLY (UPS)

R45-04AA

REV. DATE: 09/11/01

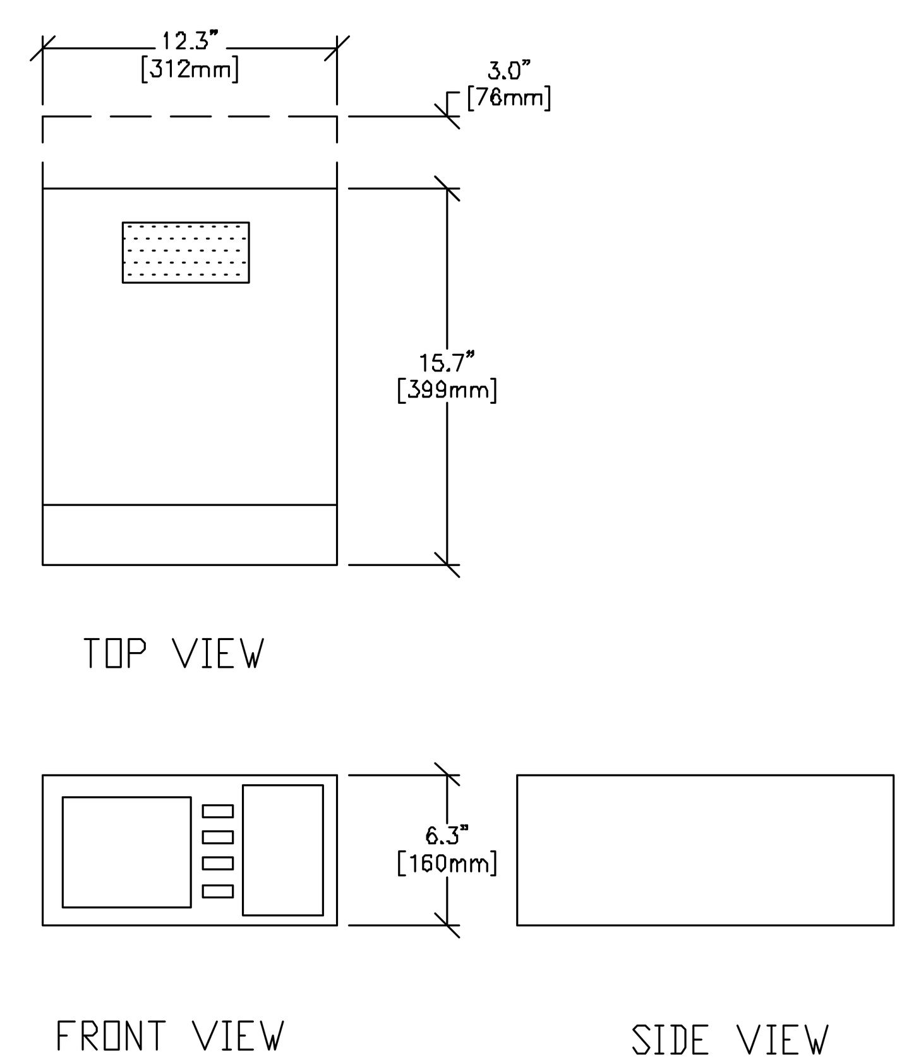


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
R-WAVE TRIGGER UNIT (ECG MODULE)

H2505EC

REV. DATE: 07/12/96



DETAIL NOT TO SCALE

GE Healthcare Technologies
Installation Services Design Center
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MODALITY TYPE: INFINIA I

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PROJECT	REVISION
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CHECKED BY: CPC

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D1

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