Drawing Ir	ndex								
These sheets are a document set and s Electrical information and references are									
SITE READINESS	C 1								
EQUIPMENT LAYOUT (Equipment locations, heat loads, component weights	A1 s, environmental specs)								
(Equipment locations, neat loads, component weights, environmental specs) STRUCTURAL LAYOUT S1 (Structural support/mounting locations for floor/wall/ceiling, wall support elevations)									
STRUCTURAL DETAILS (Floor and Ceiling loading information)	S2								
ELECTRICAL LAYOUT (Contractor supplied wiring, interconnect methods, ju	E1 unction point locations and descriptions)								
ELECTRICAL SPECIFICATIONS (Maximum wiring run lengths, interconnect diagram,									
ELECTRICAL DETAILS	E3 THRU E4								
EQUIPMENT DETAILS	D1 THRU D2								

These drawing mental sich textine sinder at the plane of the listed inderigonentation post the tiss ted esquip aveint prover to national transfer of nouvisitys are poetpoonation consideration of the solution of persponsibileties interporting the side to the operation to the operation of seats and ipment in operpliance for the Geople part to the sound tem specific at the although the plicit to the septerific stiptes and/olf loggallicable readences state, and/or local requirements.

# \* REQUIRED REFERENCE \*

## INNOVA PLUS Pre Installation Manual 5314528 - 4 - 1EN

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

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

www.gehealthcare.com/siteplanning



# GE Healthcare



# Cardio-Vascular Site Planning

CUSTOMER ACCEPTANCE

imagination at work

## Customer Site Readiness Requirements

- prior to making changes.
- analysis, 4. Restrooms.
- containment requirements.

The deliv

	GE Equipmen Requirem	t 1e	De nt	eli ts	very					
ite ⁄e	ems on the GE Healthcare Site Readiness Checklis ry to the IS site. Equipment will not be delivered if	t are thes	REQI e req	JIRED uirem	to facilitate equipment ents are not satisfied.					
	GE Healthcare Site Readines									
	Before using this document ensure you have the latest Rev from MyWorkshop on DOC0422752         GEHC Global Order # :       Oustomer:         GEHC PMI :       FE / Installer:         The customer is responsible for proper site preparation regardless of any GEHC measurements/inspections/assessments.									
	Inspection Date:	,								
	GEHC Minimum Requirements	<b>Storage</b> Is item ready?	PMI Is item ready?	<b>FE</b> Is item ready?	<b>Comments</b> If "N", enter comments or action plan					
1	<b>MR Magnet Delivery Requirements:</b> Ensure cryogen venting system is available for magnet connection as defined by GEHC Pre-Installation Manual (PIM) requirements, exhaust fan system is installed and operational, 480V power, and chilled water supply is available 24x7 that meets system cooling requirements. External connectivity is available for magnet monitoring and phone service is available during delivery. Surface mount vibromat installed where required. Magnet room final flooring is in place.									
2	MR RF Screen Room Requirements: RF Screen Room is tested with copy of Test Report, emailed to ISAdminCOEMB@ge.com, that it is compliant with GEHC specifications. Dock Bolt and magnet anchors ( if applicable) installed using 2 part anchor. For HDx systems, blower box mount bolts installed by RF vendor using 2 part anchors									
3	State Regulatory Requirements:         Facility registration number provided for states of Ill, KY, HI, RI, SC, TX.         X-ray shielding plan and state acknowledgment letter provided to installer for AR, DC, NC, SC, CO         & WA.         Site Drawing Requirements: Final version of equipment network and antenna, installation drawings (including red lined versions) verified to match actual room and has been provided to installer.									
4	Surface Penetration Requirements: Customer/Contractor scheduled to provide required drilling or cutting into floors, ceilings, and walls; OR surface penetration permit available and posted in the room when GEHC will perform the work.									
5	<b>Pre-Delivery Route Requirements:</b> The equipment delivery route from the truck to the final destination within the facility has been reviewed with all key stakeholders to safely meet the minimum requirements for equipment access, and all communications/notifications have occurred. Arrangements have been made for special handling (elevator, rigging, floor protection, fork lift, rollback truck, etc).									
6	<b>Finished Room Requirements:</b> Rooms that will contain equipment, including storage areas not in scan suite, are dust free. Provisions taken to maintain a dust free room. Precautions must be taken to prevent dust from entering rooms containing equipment when construction is incomplete in adjacent areas. All walls primed (final coat not needed on Day 1). Shielding, doors, and windows are to be installed. No contractor work being done during or after the installation that will cause dust in the installation areas or potential equipment damage. Room security to prevent unauthorized access and theft has been discussed with customer. The customer is aware of these security issues, implications and responsibility. For Storage: Room must meet PIM requirements for storage.									
7	<b>Electrical Requirements:</b> Lockable (LOTO) Main Disconnect Panel (MDP) is installed per GE guidelines and system power is available. Conduits, electrical cable ducting/dividers/cable trays, and access flooring is installed in proper location and height. Surface floor duct and load-side wires can be installed at time of system installation. Validate outlet location and requirements meet specifications for device/equipment.									
8	HVAC Requirements: The HVAC/Chilled Water systems designed to maintain the environment per spec/PIM is at running state and appears to provide the desired environmental conditions including location of vents, temperature and humidity for system operation.									
9	Flooring Requirements: Floor is clean and prepared for final floor covering. Floor levelness/flatness is measured and within tolerance, and there are no visible defects per GEHC specifications. Confirm customer anchoring plan aligns with designed floor thickness. Final flooring installed where required for network racks.									
10	<b>Ceiling Requirements:</b> Unistrut (or equivalent) location, levelness and spacing is measured (or vendor confirmed) and consistent with the requirement of the installation drawings. Ensure unistrut and rails are not used as mounting surfaces. Ceiling grid is installed. Permanent lighting is installed and operational. HVAC diffusers are installed and connected to ductwork. Ceiling tiles installed per PMI discretion.									

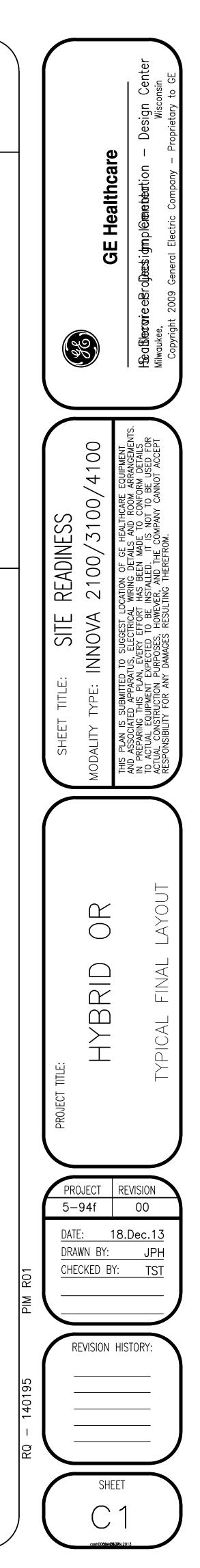
• Any deviation from these drawings must be communicated in writing to and reviewed by your local GE Healthcare Installation Project Manager

• 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.

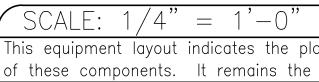
• New construction requires the following; 1. Secure area for equipment, 2. Power for drills and other test equipment, 3. Capability for image

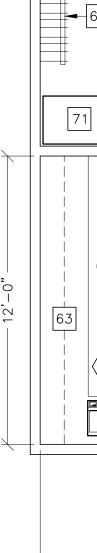
• Provide for refuse removal and disposal (e.g. crates, cartons, packing)

• Contact a radiation physicist or consultant to specify radiation

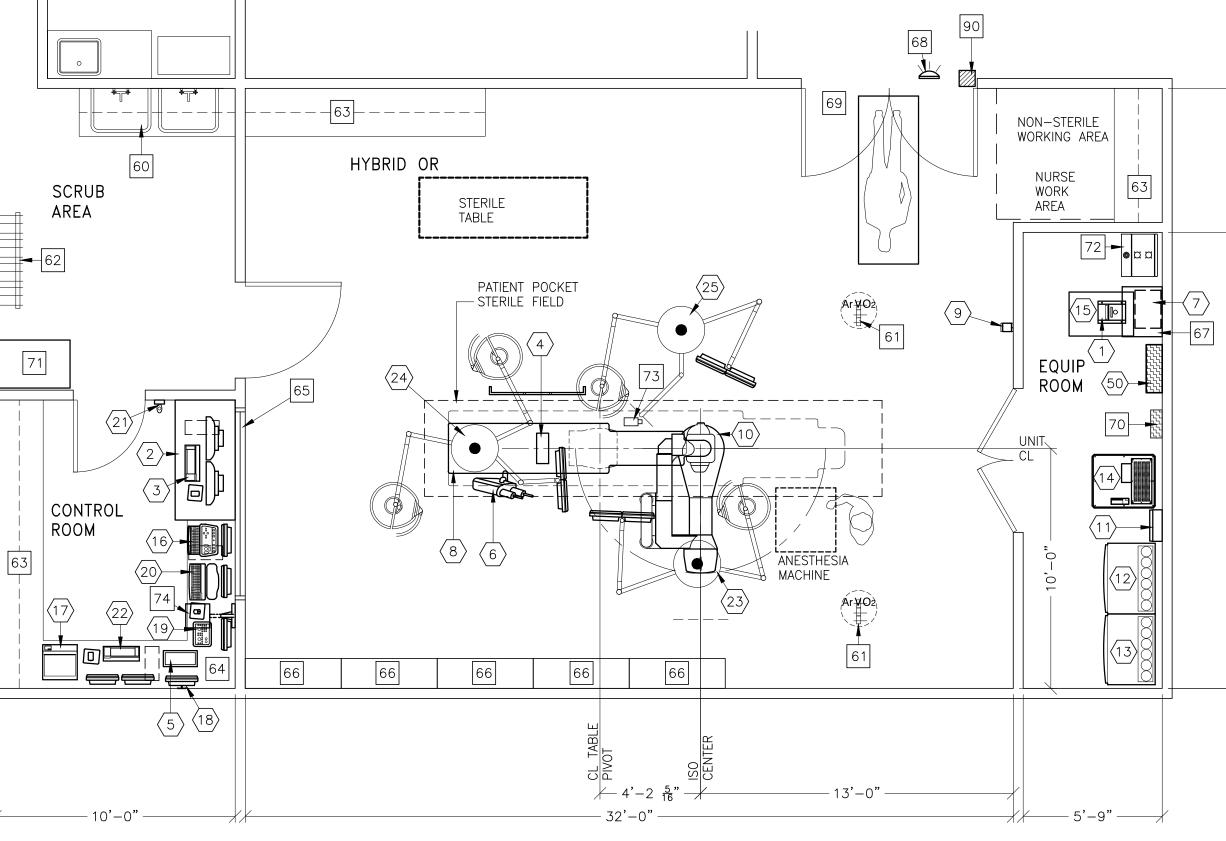


PER NOT BE	E:	GE EQUIPMENT IENT ON ORDER FROM GE HEALTHCARE, INSTALLI LOCAL CONDITIONS MAY DICTATE THAT ITEMS IDENT STALLED BY OTHERS.	ED BY (	GE HI	EALTHCAI		RÉFER P SEISMIC C STATUS	PENDI	HART	 )VAI
TEM NO.		- QUANTITY ORDERED REFER TO SHEET "D" - ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGH	T	HEAT OL (PER HC		DETAIL NO.	STRC PLAN	ELEC PLAN	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1	DETECTOR CHILLER WORKSTATION CART MAC LAB CONSOLE, INCLUDES MONITORS AND KEYBOARD TRAM NET RACK REMOTE CONTROL FOR INJECTOR INJECTOR HEAD ON TABLE RAIL INJECTOR ELECTRONICS OMEGA IV/V TABLE WITH ROTATING TOP XR BUZZER (LOCATED ABOVE CEILING)	181 8 4 15 37 1750 2 1653 1653 1175 1170 449 68 26 22 22 22	ໄ b s ໄ b s ໄ b s ໄ b s ໄ b s ໄ b s ໄ b s	706 2935 320 614 2416 1825 3389 4061 18716 1631 18716 1631 204 204 204 546	btu           btu	B5049F B5028 B5030A B5028 B5150H B5050B B5050B B5050B B5050B E4502IE B0558C E4502SC E4502SC M0917B BS5I C7617B C7617B	S 1 00 S 1 00  - - - - - - - -	XRB LC1 UIB C2 C1 UPS CHLR IVUS WBM4 WBC1	
50	TH AF	E FOLLOWING ITEMS, WHICH HAVE BEEN OF TO BE INSTALLED BY THE CUSTOMER OF INNOVA MAIN DISCONNECT, REFERENCE JUNCTION POINT 'PDB' ON SHEET E1 FOR DETAILED DESCRIPTION.	RDERED HIS ( 326	CONT	RACTOR	•	THCARE,		PDB	

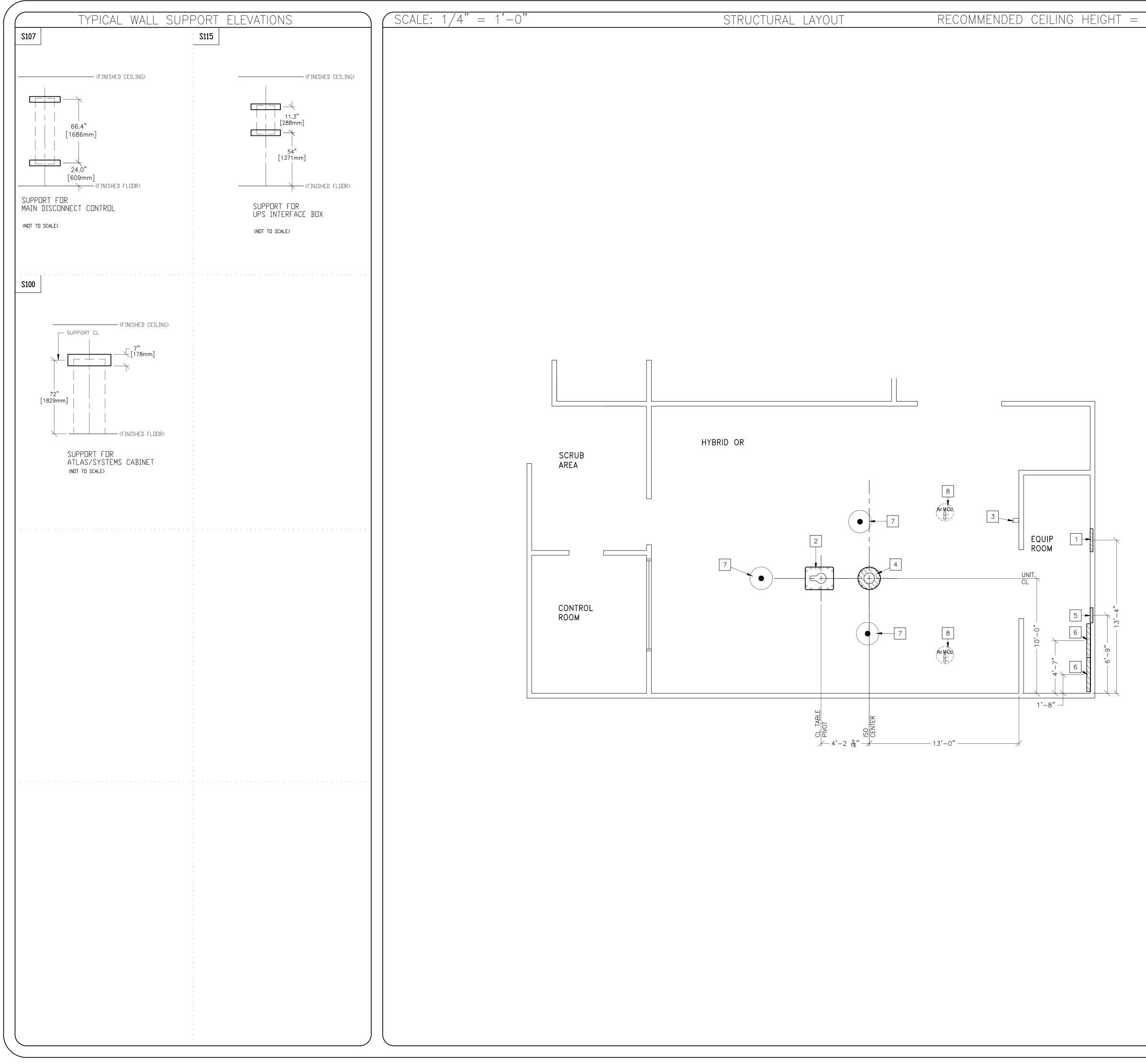




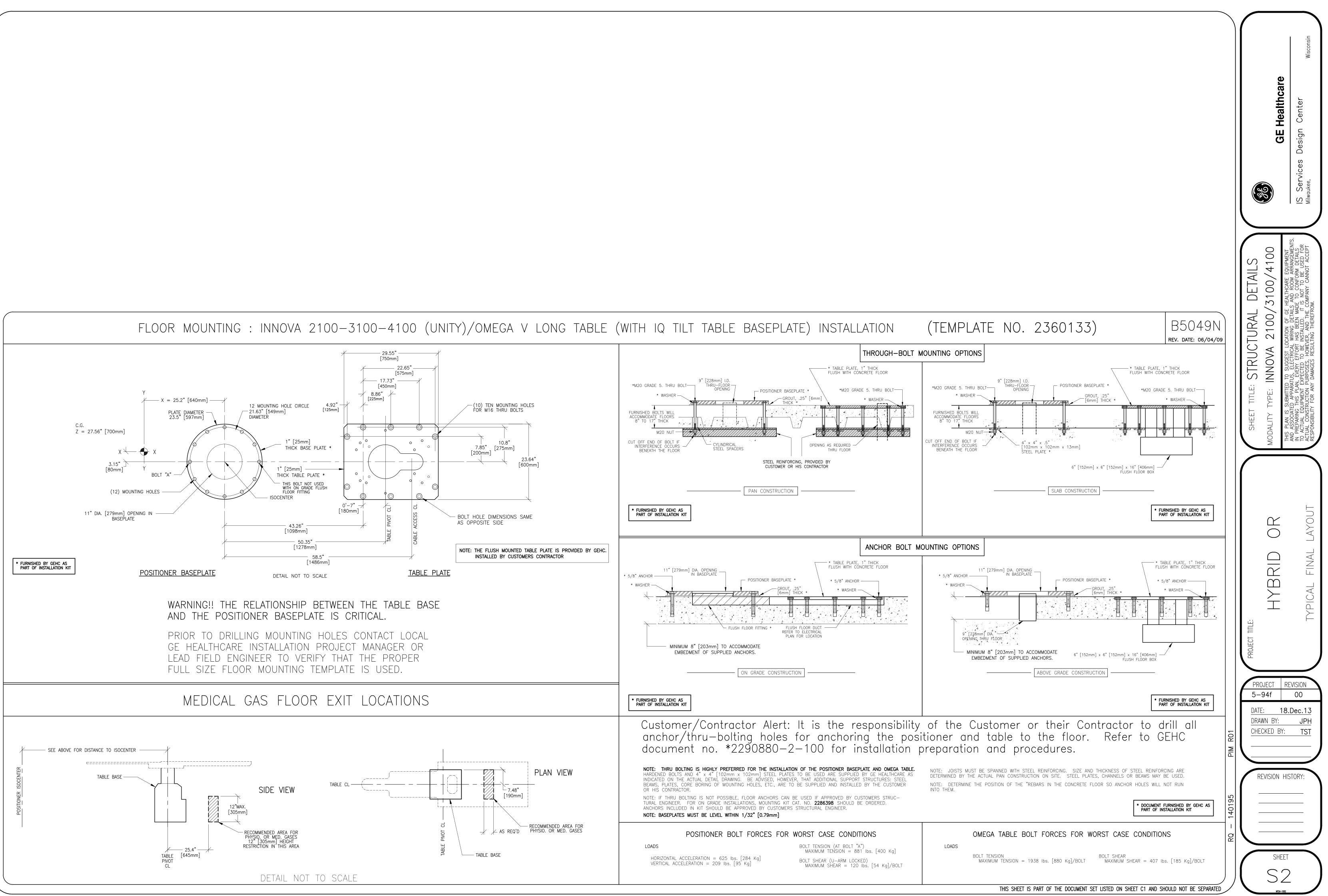
EQUIPMENT LAYOU	IT RECOMMENDED CEILING HEIGHT
placement and interconnection of the indicated equipment components. 1	There may be federal, state, and/or local requirements that could impact th
e Customer's responsibility for ensuring the site and final equipment plac	ement complies with all applicable federal, state, and/or local requirements.

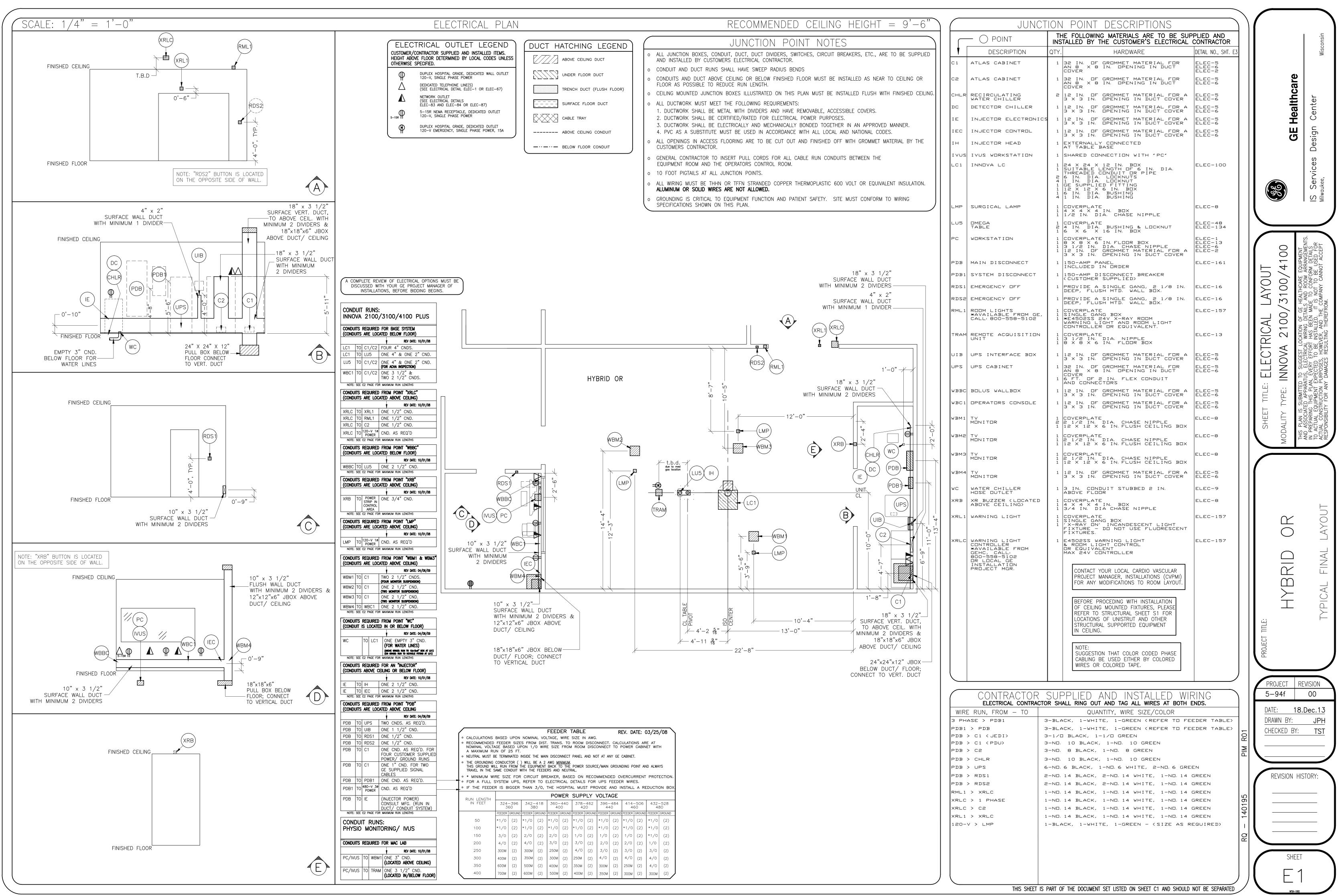


= 9'-6''ANCILLARY ITEMS the placement CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS [F M ITEM DESCRIPTION (\* INDICATES EXISTING) Healthcare COUNTER TOP WITH SINK, BASE AND WALL CABINETS nter MED GASES IN CEILING LEAD APRON RACK Ce COUNTER TOP WITH BASE AND WALL CABINETS COUNTER TOP FOR EQUIPMENT-MINIMUM DEPTH 30 in. OR ADDITIONAL SHELVING MAY BE REQUIRED PROVIDE GROMMETED OPENINGS AS REQUIRED TO ROUTE INTERCONNECT CABLES TO RACEWAY BELOW COUNTERTOP. sign В П Ď CONTROL WALL TO CEILING WITH LEAD GLASS WINDOW CATHETER CABINETS es SHELF - CUSTOMER TO PROVIDE ADEQUATE WALL SUPPORT X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL: 800-200-9760 GE CAT. ND. WXIABWW-DF-XIU MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 44 IN. W × 83 IN. H [1118mm × 2108mm], CONTINGENT ON A 96 IN. [2438mm] CORRIDOR WIDTH <u>.</u> Ser 990 Milv ₩ 150-AMP DISCONNECT BREAKER (FOR LOCK-OUT/TAG-OUT CAPABILITY) CUSTOMER SUPPLIED STORAGE CABINET RACK FOR HYBRID NETWORK ITEMS PROCEDURAL CAMERA 74 PROCEDURAL VIDED MONITOR THE FOLLOWING ITEMS ARE AVAILABLE FROM GE HEALTHCARE DETAILS DETAILS ISED FOR ACCEPT TECHNOLOGIES. CONTACT YOUR LOCAL GE HEALTHCARE 00 SERVICE REPRESENTATIVE FOR PRICING AND AVAILABILITY. <u>\_\_\_</u> /3100/4<sup>-</sup> X-RAY ROOM WARNING LIGHT/ROOM LIGHTING CONTROL PANEL REFERENCE JUNCTION POINT 'XRLC' ON SHEET 'E1' FOR Detailed description -cat. No. e4502SS for warning LIGHT & ROOM LIGHT CONTROL. NNO DAR DOM CAL MAD MAD 2100, EQUIPMENT NG DET NG DET BEEN AND TH AND TH OCATIO WIRI F HAS INST INST INST EFFORT TO BE I HOWEVI INNOVA IU SUSU IUS, ELEC EVERY E XPECTED URPOSES, NAMAGES UBMITTED ) APPARATI HIS PLAN, IPMENT EX UCTION PL TITLE: GENERAL SPECIFICATIONS THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT SAF AC FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR LOCAL GEHC IS SPECIALIST REGARDING ACCEPTABILITY OF OTHER CEILING HEIGHTS. ഗ 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 AYOI LENGTHS, ETC., MAKE THIS ESSENTIAL FOR A PROPER IS. GEHC RESERVES  $\Delta$ THE RIGHT TO MAKE ON THE JOB CHANGES BECAUSE OF CUSTOMER REQUIREMENTS  $\bigcirc$ 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 FINAI  $\square$ \_\_\_\_  $\Delta$  $\square$ SITE ENVIRONMENT SPECIFICATIONS  $\succeq$ ()AMBIENT OPERATING TEMPERATURE: EQUIPMENT ROOM WITH FLUORO UPS OPTION 68° TO 77° F, (20° TO 25° C) AMBIENT OPERATING TEMPERATURE: CONTROL ROOM 68° TO 77° F, (20° TO 25° C) AMBIENT OPERATING TEMPERATURE: EXAM ROOM-DESIGN FOR PATIENT/OPERATOR COMFORT TARGET TEMPERATURE 64° F (18° C) HUMIDITY: 30° TO 75° FOR EQUIPMENT AND CONTROL ROOMS AND 30° TO 70° FOR EXAM ROOM ALTITUDE: NOT TO EXCEED 9,842 FT. (3000M) 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 OR AIR EXHAUST OF THE SYSTEM COMPONENTS. ENVIRONMENTAL CONDITIONS LISTED ABOVE MUST BE MAINTAINED AT ALL TIMES INCLUDING FOR EXAMPLE OVERNIGHT, WEEKENDS, AND HOLIDAYS. PROJECT | REVISION 5–94f 00 DATE: 18.Dec.13 MAGNETIC INTERFERENCE SPECIFICATIONS DRAWN BY: JPH CHECKED BY: TST 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. **REVISION HISTORY:** OPERATORS CONSOLE EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 10 GAUSS TO OBTAIN SPECIFIED GEOMETRIC LINEARITY. SHEET  $\square$ THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED



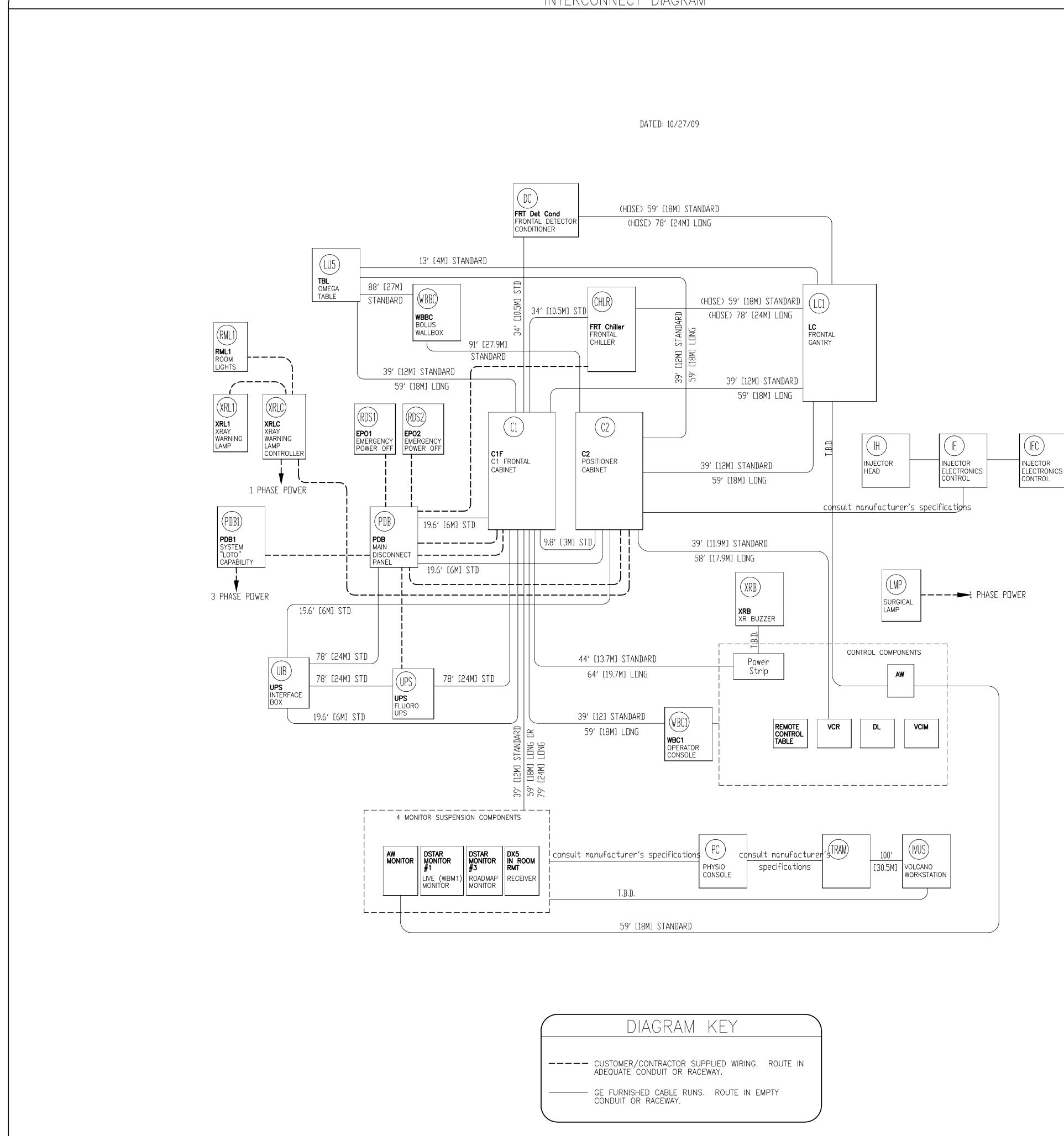
9'-6"	STRUCTURAL SUPPORT METHODS	
	CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS         ITEM NO.       (* INDICATES EXISTING)	<b>Care</b> Wisconsin
	<ol> <li>SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S107, FOR MAIN DISCONNECT CONTROL.</li> <li>AREA OCCUPIED BY GE SUPPLIED TABLE BASEPLATE</li> <li>MOUNT XR BUZZER BRACKET ON WALL. ABOVE CEILING</li> <li>AREA OCCUPIED BY GE SUPPLIED POSITIONER BASEPLATE</li> <li>SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S115, FOR UPS INTERFACE BOX.</li> <li>SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S100, FOR ATLAS CABINET.</li> <li>CEILING SUPPORT FOR SURGICAL LAMP/ MONITOR POST</li> <li>AREA OF MED GASES IN CEILING</li> </ol>	<b>GE Healthcare</b> IS Services Design Center Milwaukee,
		SHEET TITLE: STRUCTURAL LAYOUT MODALITY TYPE: STRUCTURAL LAYOUT MODALITY TYPE: INNOVA 2100/3100/4100 THS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT THS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS 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.
	<ul> <li>CUSTOMERS CONTRACTOR MUST PROVIDE ALL PENETRATIONS IN POST TENSION FLOORS.</li> <li>CUSTOMERS CONTRACTOR MUST PROVIDE AND INSTALL ANY NON-STANDARD ANCHORING. DOCUMENTS FOR STANDARD ANCHORING METHODS ARE INCLUDED WITH GE EQUIPMENT</li> </ul>	AND TO MAN AND AND AND AND AND AND AND AND AND AND
	<ul> <li>DRAWINGS FOR GEOGRAPHIC AREAS THAT REQUIRE SUCH DOCUMENTATION.</li> <li>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.</li> <li>IT IS THE CUSTOMER'S RESPONSIBILITY TO PERFORM ANY FLOOR OR WALL PENETRATIONS THAT MAY BE REQUIRED. THE CUSTOMER IS ALSO RESPONSIBLE FOR ENSURING THAT NO SUBSURFACE UTILITIES (E.G., ELECTRICAL OR ANY OTHER FORM OF WIRING, CONDUITS, PIPING, DUCT WORK OR STRUCTURAL SUPPORTS (I.E. POST TENSION ON PAPIES OF OR DEPADED.</li> </ul>	REVISION HISTORY:

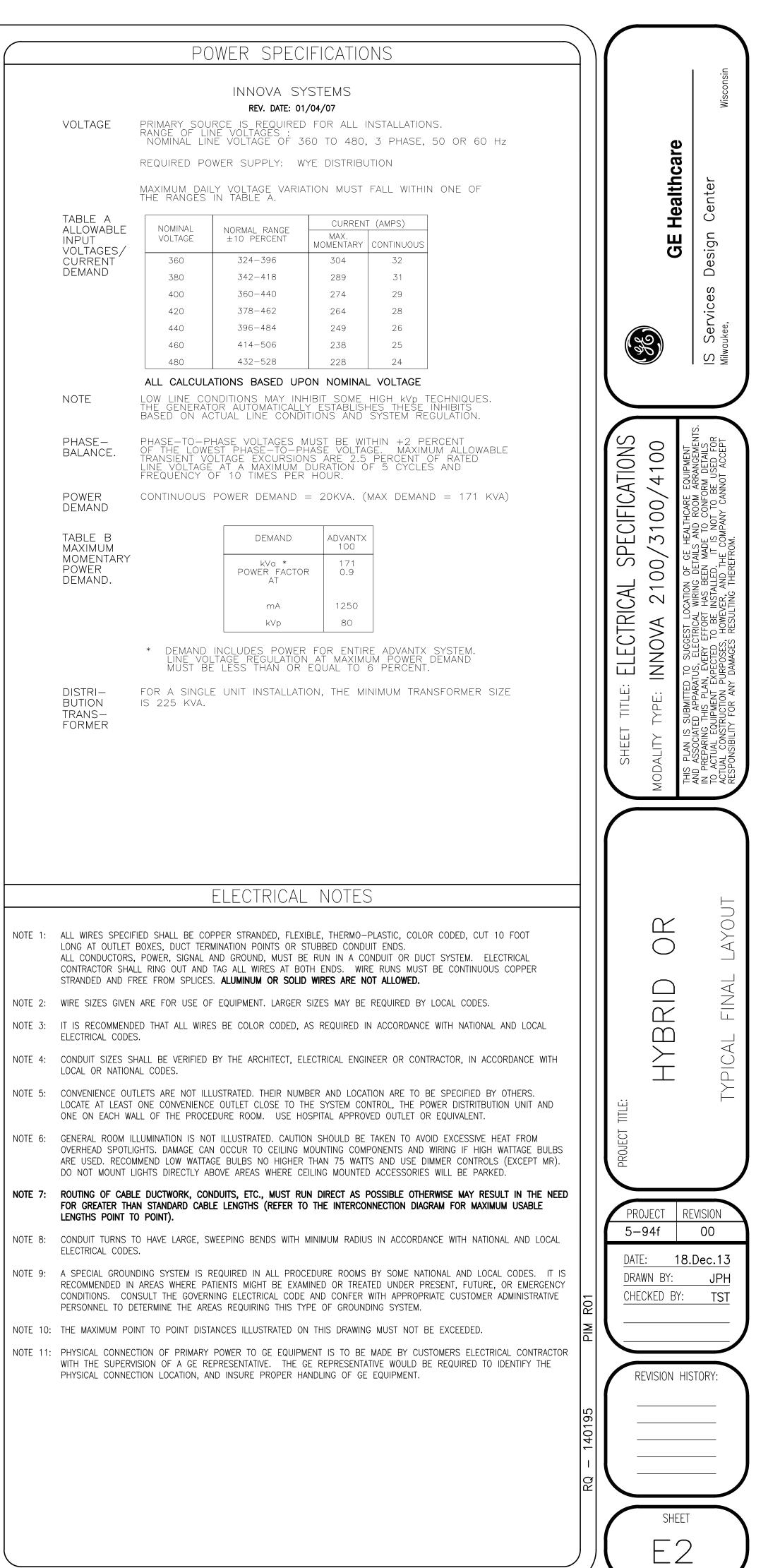




Ζ4	XZ'	4 X I Z	JDUX-
BELOW	DL	JCT/	FLOOR;
CONNECT	ΤO	VERT	DUCT

	FEEDER TABLE REV. DATE: 03/25/08													
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.														
THIS GROUND WIL	THE GROUNDING CONDUCTOR ( ) WILL BE A 2 AWG <u>MINIMUM</u> . THIS 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 S													DUCT	
IF THE FEEDEF	R IS B	IGGER	THAN	3/0,	THE H	OSPITA	L MUS	ST PRO	DVIDE	AND II	NSTALL	. A RE	DUCTI	ON BOX
RUN LENGTH					PO۱	NER	SUP	۶LΥ ۱	/OLT/	٩GE				
IN FEET	324–396 342–418 360 380		360- 4(	-440 00	378-462 420		396-484 440		414-506 460		432-528 480			
	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND
50	*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)





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

