Drawing I	ndex	(
These sheets are a document set and s Electrical information and references ar		
SITE READINESS	C1	
EQUIPMENT LAYOUT (Equipment locations, heat loads, component weight STRUCTURAL LAYOUT (Structural support/mounting locations for floor/wal STRUCTURAL DETAILS	S1	
(Floor and Ceiling loading information) ELECTRICAL LAYOUT (Contractor supplied wiring, interconnect methods, j ELECTRICAL SPECIFICATIONS (Maximum wiring run lengths, interconnect diagram, ELECTRICAL DETAILS	E2	
MECHANICAL LAYOUT (Chiller information) EQUIPMENT DETAILS	M1 D1 THRU D2	

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

## \* REQUIRED REFERENCE \*

Discovery MR450

### Pre Installation Manual 5500109

### A mandatory component of this drawing set is the GE Healthcare Pre Installation manual. Failure to reference the Pre Installation 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



# MRi Site Planning

imagination at work

### Customer Site Readiness Requirements

- 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.

The items on the GE Healthcare Site Readiness Checklist are REQUIRED to facilitate equipment delivery to the IS site. Equipment will not be delivered if these requirements are not satisfied.

	GE Healthcare Site Readines	s Che	cklis	t Rev	19
	Before using this document ensure you have the latest R	ev from M	vWorksh	op on DOC	C0422752
		Customer:			
		/ Installer:			
	The customer is responsible for proper site preparation regardless of a	-	neasurem	ents/inspe	ections/assessments.
	Inspection Date: GEHC Minimum Requirements	Storage Is item ready?	PMI Is item ready?	FE 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 III, 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	<b>HVAC Requirements:</b> 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.				
11	<b>Staging Requirements:</b> Space has been identified to support the active installation process only. This area meets PIM/project book requirements. Storage space has been identified, if needed. This secured space would be used to store equipment indefinitely. If offsite, transportation plan has been developed at customer expense. This space must meet PIM requirements.				
12	<b>Network Connectivity:</b> Hardwire for network connectivity(network drop) is in place prior to delivery with specified network firewall configuration where required. Site Surveys for wireless mobile XR units have been completed.				
13	<b>Medical Gases Requirements:</b> Systems (hard piped or portable) in place to allow testing and calibration of equipment (anesthesia), including ventilation.				

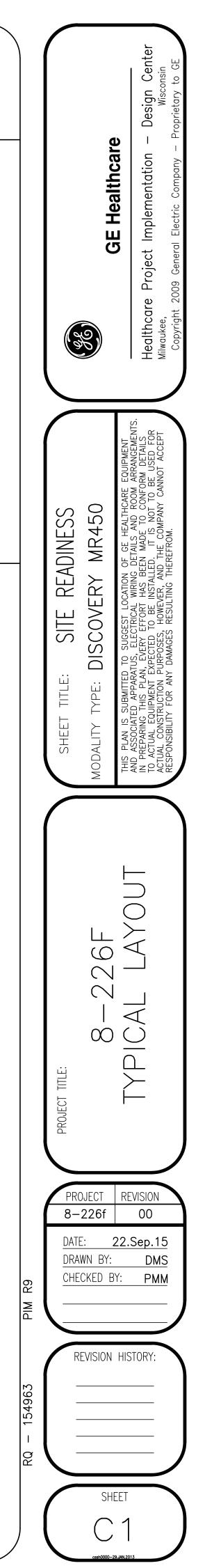
• Any deviation from these drawings must be communicated in writing to and reviewed by your local GE Healthcare Installation Project Manager prior to making changes.

• 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

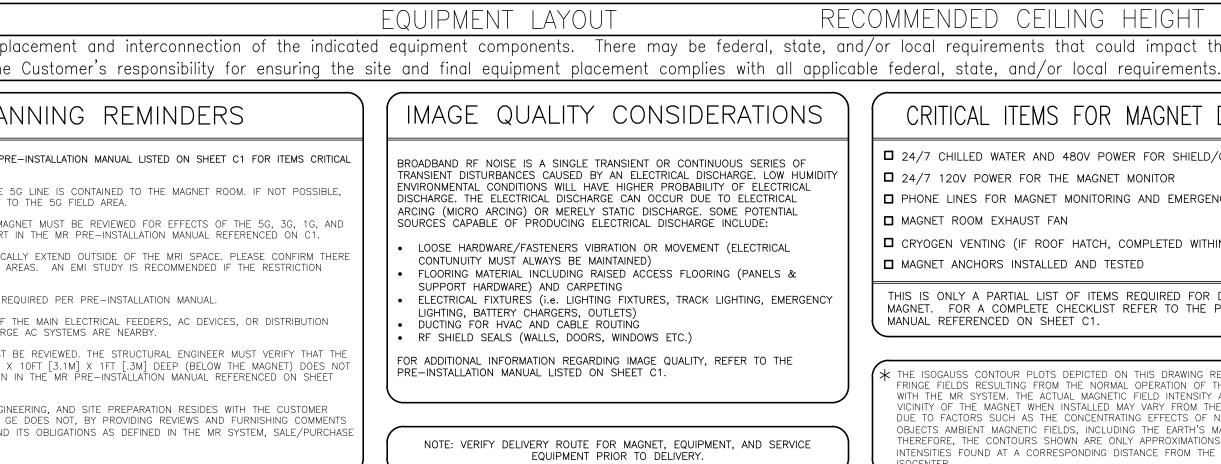
• Provide for refuse removal and disposal (e.g. crates, cartons, packing)

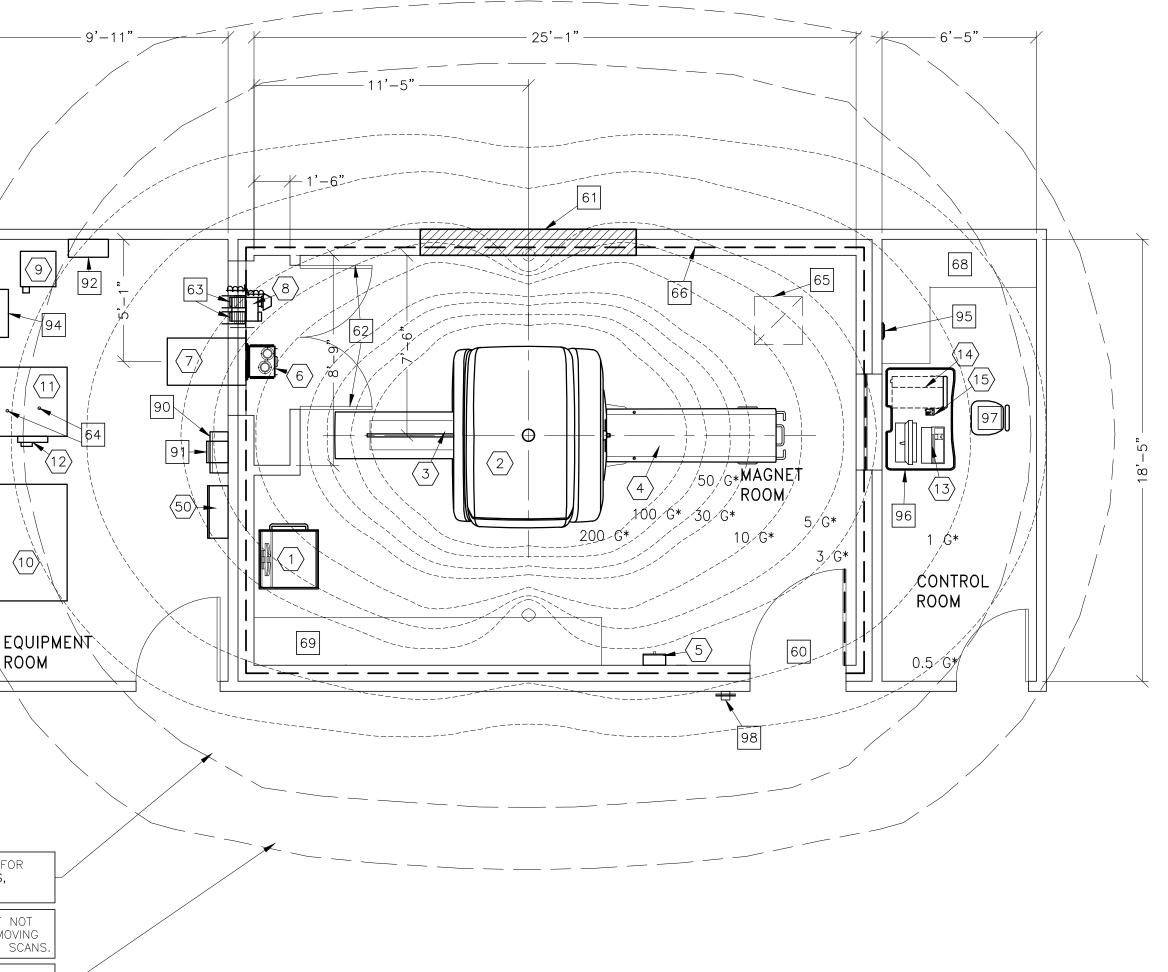
• It is the customer's responsibility to contract a vibration consultant/engineer to implement site design modifications to meet the GE vibration specification. Refer to the system preinstallation manual for the vibration specification.

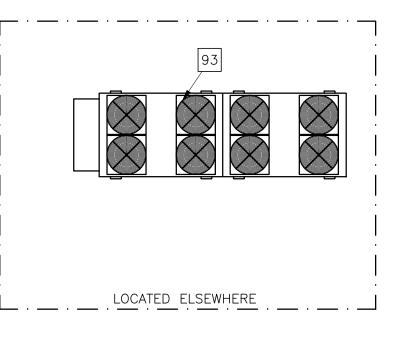
# Equipment Delivery Requirements



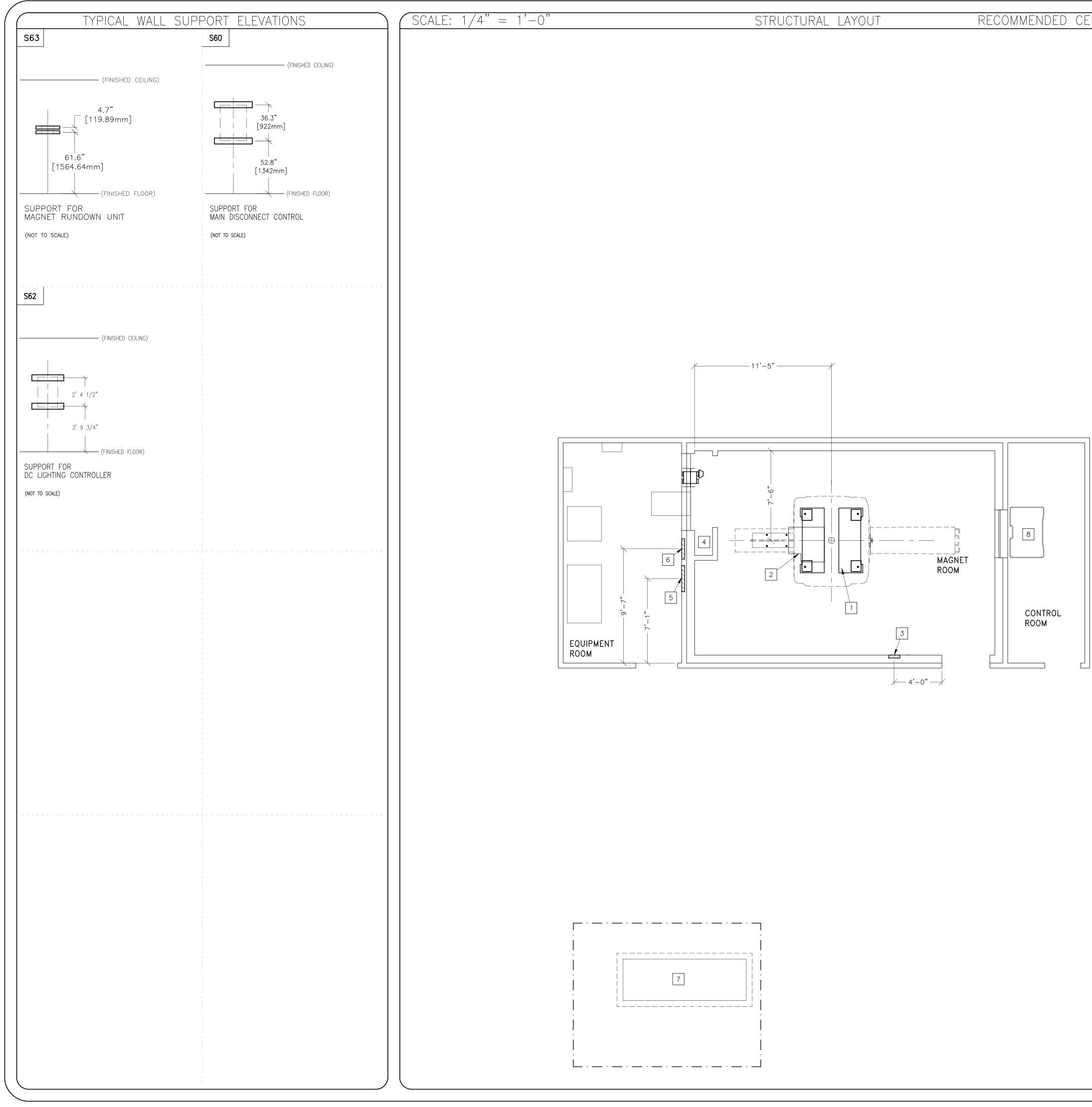
΄ Γ			GE EQUIPMEN <sup>T</sup> IENT ON ORDER FROM GE HEALTHCARE, INSTALI			EQUIP	MENT CF	ROSS		SCALE: $1/4" = 1'-0"$ This equipment layout indicates the place
F	PER	:	NEITHER A QUOTE OR GON WAS ISSUED AT THE DATE OF LOCAL CONDITIONS MAY DICTATE THAT ITEMS IDEN	F THESE DRAWI	NGS	REFER	ENCE CI = PREAF = CALCU	HART PPROVAL JLATIONS/	_	of these components. It remains the C
	BE	INS	TALLED BY OTHERS.		5 CAILGUNT	STATUS	PENDI	ING APPRO FICATIONS	VAL	MRI SITE PLANI
	EM 10.		- QUANTITY ORDERED REFER TO SHEET "D"	WEIGHT	HEAT OUTPUT	DETAIL		ELEC		PLEASE REFER TO PRE-INSTALLATION CHECKLIST IN PRE-INTO IMAGE QUALITY.
		1	(* = EXISTING/REINSTALL) Spt phantom cabinet	350 lbs	(PER HOUR)	NO. M6115	PLAN	PLAN	<u> </u>	<ol> <li>THE LAYOUT SHOULD BE ARRANGED SO THAT THE 5G I A BARRIER IS RECOMMENDED TO PREVENT ENTRY TO T</li> <li>THE SPACES AROUND, ABOVE, AND BELOW THE MAGNET</li> </ol>
	2>	1	1.5 TESLA LCC ACTIVE SHIELD MAGNET	12030 lbs	8191 btu	M3015K M2315E M0300H M0315H	-	MAG	С	.5G FIELDS. REFER TO THE PROXIMITY LIMIT CHART IN 3. FOR MOVING METAL, THE RESTRICTION LINES TYPICALLY ARE NO MOVING METAL CONCERNS WITHIN THESE AREA
	3) 4)		REAR PEDESTAL Patient transport table	213 lbs		M2315A	-		c s	LINES ARE VIOLATED. 4. FOR VIBRATION, ANALYSIS TO BE COMPLETED AS REQUI
	5>		PATIENT TRANSPORT TABLE (DOES NOT INCLUDE PATIENT) Magnet rundown unit	8 lbs		M1715C	-	MRU	с	<ol> <li>FOR EMI, REVIEW THE SITE FOR THE LOCATION OF THE SYSTEMS. AN EMI STUDY IS RECOMMENDED IF LARGE A</li> <li>DETAILS OF THE FLOOR BELOW THE MAGNET MUST BE</li> </ol>
	6) 7)		BLOWER BOX Pen panel cabinet (Exam Room Side)	639 lbs	1535 btu 10699 btu 1023 btu			PEN	– S	QUANTITY OF STEEL IN THE VOLUME 10FT [3.1M] X 10 EXCEED THE ALLOWABLE STEEL CONTENT AS GIVEN IN C1.
	8) 9)	1	RF PENETRATION PANEL Shield cooler cabinet	92 lbs 264 lbs		M3015P	-	SPW CRY	s c	RESPONSIBILITY FOR THE COORDINATION, DESIGN, ENGINEER AND THEIR PROJECT ARCHITECTS AND CONTRACTORS. GE D AND ASSISTANCE, ACCEPT ANY RESPONSIBILITY BEYOND ITS
	11	1	POWER, GRADIENT, RF CABINET HEAT EXCHANGER CABINET	3143 lbs	20945 btu	M3015G		PGR HEC	s s	AGREEMENT.
	12>	1	MAGNET MONITOR	11 lbs	819 btu	M1615C		MON	с	
	13)		DPERATOR WORKSPACE W/COLOR LCD MONITOR Operator Workspace Cabinet	26 lbs 141 lbs		M30150 M0615E	, 		– C	
	15	1	PATIENT ALERT CONTROL BOX			M4815		PA	s	
										×
										EQU
										ROC
										MOVING METAL SENSITIVITY LINE FOR CARS, MINIVANS, PICKUP TRUCKS, AND AMBULANCES.
										NOTE: FERRROUS OBJECTS MUST NOT MOVE INTO OR INSIDE OF THE MOVING
										METAL SENSISTIVITY LINE DURING SCA
										BUSES AND TRUCKS (DUMP, TRACTOR TRAILER, UTILITY, FIRE TRUCKS)
		TH AR	E FOLLOWING ITEMS, WHICH HAVE BEEN O	RDERED FR R HIS CONT	OM GE HEAL 'RACTOR.	THCARE,				
	50>		MAIN DISCONNECT PANEL	130 lbs	1		-	MDP	С	
										_ · _ · _ · _ · _ · _ · _ · _ · _ · _
										67
										AIR CONDITIONING UNIT BY OTHERS LOCATED ELSEWHERE





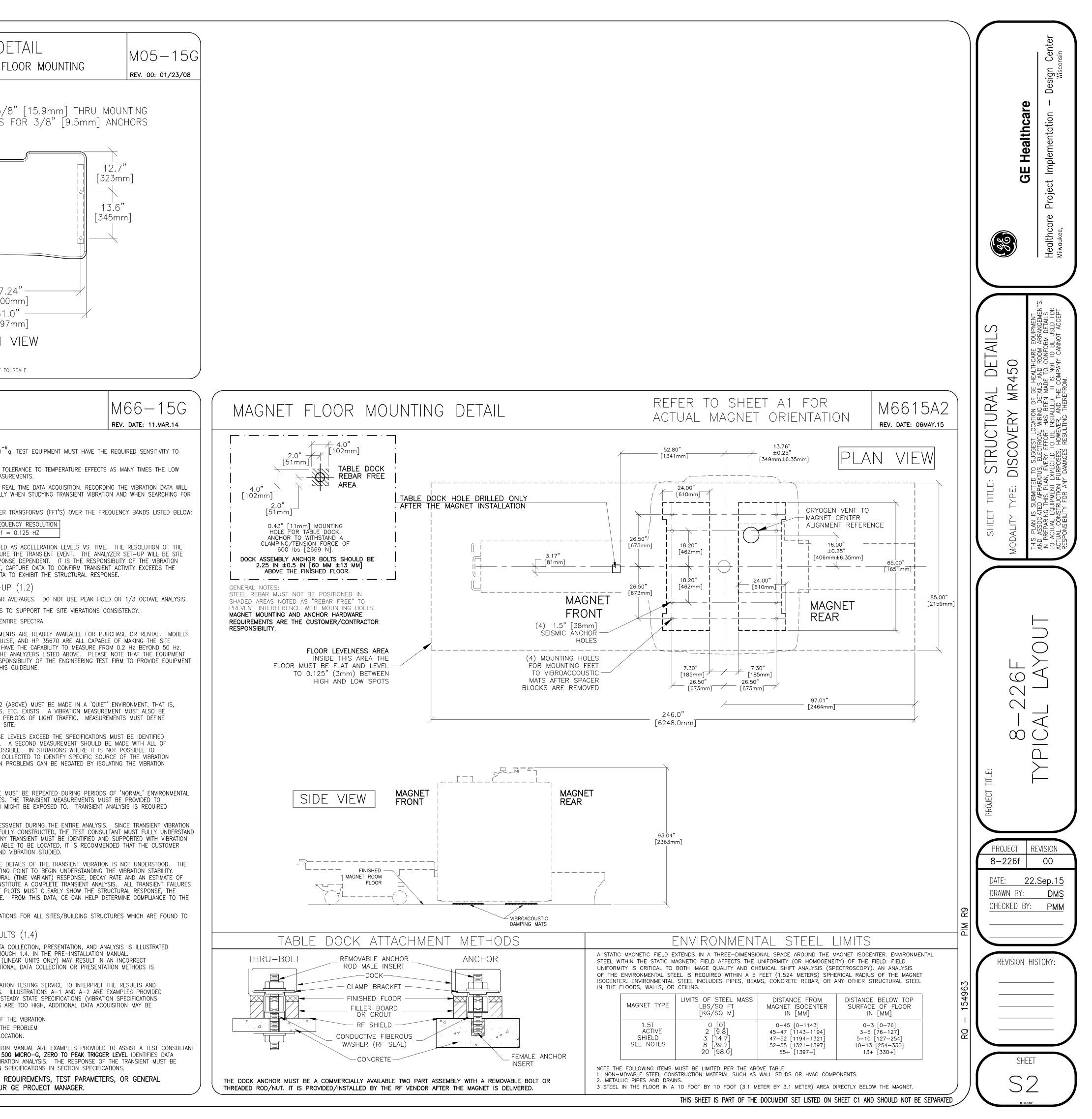


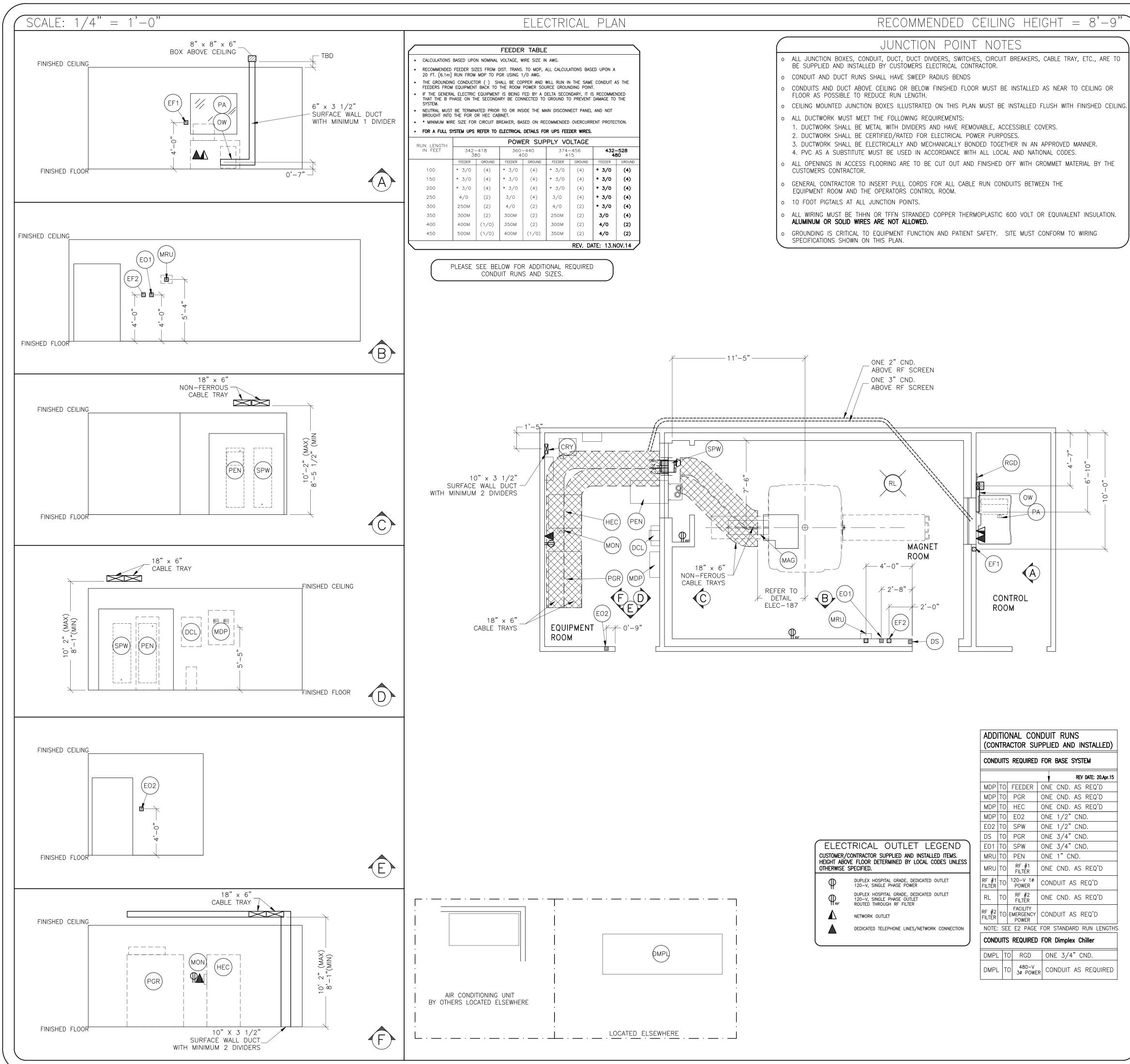
MENDED CEILING HEIGHT = 8'-9"	ANCILLARY ITEMS	
local requirements that could impact the placement federal, state, and/or local requirements.	CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED	Center
CRITICAL ITEMS FOR MAGNET DELIVERY	ITEM	Design Cer <sup>Wisconsin</sup>
<ul> <li>24/7 CHILLED WATER AND 480V POWER FOR SHIELD/CRYO COOLER</li> <li>24/7 120V POWER FOR THE MAGNET MONITOR</li> <li>PHONE LINES FOR MAGNET MONITORING AND EMERGENCY USE</li> <li>MAGNET ROOM EXHAUST FAN</li> <li>CRYOGEN VENTING (IF ROOF HATCH, COMPLETED WITHIN 24 HRS)</li> <li>MAGNET ANCHORS INSTALLED AND TESTED</li> <li>THIS IS ONLY A PARTIAL LIST OF ITEMS REQUIRED FOR DELIVERY OF THE MAGNET. FOR A COMPLETE CHECKLIST REFER TO THE PRE-INSTALLATION MANUAL REFERENCED ON SHEET C1.</li> </ul>	NO.       ITEM DESCRIPTION (* INDICATES EXISTING)         Image: Construct of the state of the	<b>GE Healthcare</b> Realthcare Project Implementation - [ Milwaukee,
	<ul> <li>THE FOLLOWING ITEMS ARE AVAILABLE FROM GE HEALTHCARE TECHNOLOGIES. CONTACT YOUR LOCAL GE HEALTHCARE SERVICE REPRESENTATIVE FOR PRICING AND AVAILABILITY.</li> <li>DC LIGHTING CONTROL PANEL 155 (bs (70 kg) 1024 BTU/HR. (300W) (CAT. NOL 44502SC/SE - BASIC SYSTEM)</li> <li>DC LIGHTING AUTO TRANSFORMER GO (bs [27 kg] 171 btu/hr (50W) (CAT. NOL 44502SD/SF INCLUDES BASIC SYSTEM)</li> <li>MANUAL CRYDGEN COMPRESSOR WATER BYPASS PANEL CAT NOL E8911CA/CB/CC/CD) 4301 (bs. (1951 kg) 240002 BTU/HR (70320 W)</li> <li>WATER FILTER</li> <li>REMOTE GRAPHIC DISPLAY</li> <li>WORKSTATION TABLE CAT. NOL M1000MW</li> <li>DPERATOR'S CHAIR CAT. NOL E8803BE</li> <li>METAL DETECTOR (HAND HELD)</li> </ul>	: EQUIPMENT LAYOUT DISCOVERY MR450 DISCOVERY MR450 TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT RATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. AN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS AN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS IN EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS AN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS
95 14 15 97 15 97 15 15 15 15 15 15 15 15 15 15	<ul> <li>GENERAL SPECIFICATIONS</li> <li>THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR LOCAL GEHC IS SPECIALIST REGARDING ACCEPTABILITY OF OTHER CEILING HEIGHTS.</li> <li>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.</li> <li>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.</li> <li>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 IS. GEHC RESERVES</li> </ul>	SHEET TITLE: MODALITY TYPE: MODALITY TYPE: THIS PLAN IS SUBMITTEI AND ASSOCIATED APPAR IN PREPARING THIS PLA TO ACTUAL EQUIPMENT ACTUAL CONSTRUCTION RESPONSIBILITY FOR AN
0.5.6	<ul> <li>THE RIGHT TO MAKE ON THE JOB CHANGES BECAUSE OF CUSTOMER REQUIREMENTS AND/OR OBSTACLES IN CONSTRUCTION, ETC</li> <li>ALL WORK TO BE IN COMPLIANCE WITH NATIONAL AND LOCAL BUILDING SAFETY CODES.</li> <li>DIMENSIONS ARE TO FINISHED SURFACES OF ROOM</li> </ul> SITE ENVIRONMENT SPECIFICATIONS • AMBIENT OPERATING TEMPERATURE: CONTROL AND EQUIPMENT ROOMS ARE 59–89.6 DEG (F) [15–32 (C)], MAGNET ROOM IS 59–69.8 DEG (F) [15–21 (C)]. MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 5 DEG (F)/HR [3 (C)/HR]. MAXIMUM ROOM TEMPERATURE GRADIENT 5 DEG (F) [3 (C)]. • HUMDITY: CONTROL AND EQUIPMENT ROOMS ARE 30 TO 70 PERCENT NON-CONDENSING, MAGNET ROOM IS 30 TO 60 PERCENT NON-CONDENSING, MAXIMUM ALLOWABLE CHANGE OF 5 PERCENT/HOUR. • ENVIRONMENTAL RESTRICTIONS ABOVE MUST NOT BE EXCEEDED FOR THE ELECTRONICS • 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 HOLDAYS. • 24 HOUR POWER AND HVAC MUST BE AVAILABLE UPON MAGNET DELIVERY. [THIS WILL INCLUDE CHILLED WATER SUPPLY]. • CRYOGEN VENTING AND EMERGENCY EXHAUST SYSTEMS MUST BE COMPLETED IN THE MAGNET ROOM PIOR TO DELIVERY. • FLUORESCENT LIGHTING, SCR DIMMERS OR RHEOSTATS ARE NOT ALLOWED IN THE MAGNET ROOM.	PROLECT ITLE: TYPICAL LAYC BLOTECT LAYC
	<ul> <li>PROVIDE FLOORING TO PREVENT THE BUILD UP TO 8kV</li> <li>MAGNETIC INTERFERENCE SPECIFICATIONS</li> <li>THE CUSTOMER MUST ESTABLISH PROTOCOLS TO PREVENT PERSONS WITH CARDIAC PACEMAKERS, NEUROSTIMULATORS, AND BIOSTIMULATION DEVICES FROM ENTERING MAGNETIC FIELDS OF GREATER THAN 5 GAUSS (EXCLUSITION ZONE).</li> <li>MAIN POWER TRANSFORMERS MUST REMAIN OUTSIDE THE 3 GAUSS FIELD. EMI &lt; 40mG AC. EMI &lt; 4.43m G DC.</li> <li>POTENTIAL EXISTS UNDER FAULT CONDITIONS THAT THE 5 GAUSS LINE MAY EXPAND RADIALLY TO 16.4 FT. [5.0 m] AND AXIALLY TO 22.96 FT. [7.0 m] FOR 2 SECONDS OR LESS. TI SHOULD BE NOTED THAT NORMAL RAMPDOWNS OR MRU (MAGNET RUNDOWN UNIT) INITIATED QUENCHES WILL NOT CAUSE THE MAGNETIC FIELD TO EXPAND.</li> <li>IT IS RECOMMENDED EVERY SITE CONSIDER THE EVENT OF A QUENCH AND PLAN ACCORDINGLY (SUCH AS PLACING 5 GAUSS WARNING SIGNS AT EXPANDED LOCATIONS).</li> <li>THE FERROUS METAL OBJECTS LISTED BELOW MUST NOT MOVE INTO OR INSIDE OF THE MOVING METAL SENSITIVITY LINE DURING SCANS.</li> <li>TYPCIAL MOVING MAGNETIC MASS DISTANCE RADIALLY DISTANCE AXIALLY</li> <li>CARTS, GURNEYS 100-400 Ibs [45-182 kg] 3 GAUSS LINE 3 GAUSS LINE FORKLIFTS, SMALL ELEVATOR, CARS, MINIVANS VANS, PICKUP TRUCKS, AMBULANCES (OBJECTS GREATER THAN 400 Ibs [182 kg]) 15.5 ft. [4.72 m] 21.0 ft. [6.4 m] BUSES AND TRUCKS (DUMP, TRACTOR 18.1 ft. [5.52 m] 24.5 ft. [7.47 m]</li> <li>THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED</li> </ul>	8–226f 00 DATE: 22.Sep.15 DRAWN BY: DMS CHECKED BY: PMM REVISION HISTORY: 



ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)			Le
1 2 3 4 5 6 7 8	SEE MAGNET FLOOR MOUNTING DETAIL ON SHEET S2 FOR MORE INFORMATION. CABLE ACCESS OPENING AND CONCEALMENT FRAME IN CEILING, SEE DETAIL ON SHEET S2. SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S63, FOR MAGNET RUNDOWN UNIT. SUITABLE WALL BACKING FOR CABLE STORAGE CONSULT WITH FE OR PROJECT MANAGER SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S60, FOR MAIN DISCONNECT CONTROL. SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S62, FOR DC LIGHTING CONTROL. CONCRETE PAD FOR CHILLER - CONSULT MANUFACTURER FOR SPECIFICATIONS SEE OPERATOR WORKSPACE FLOOR MOUNTING DETAIL ON SHEET S2.			GE Healthcare
			MODALITY TYPE: DISCOVERY MR450	
- - -	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. DIMENSIONS ARE TO FINISHED SURFACES OF ROOM. CERTAIN MR PROCEDURES REQUIRE AN EXTREMELY STABLE ENVIRONMENT TO ACHIEVE HIGH RESOLUTION IMAGE QUALITY. VIBRATION IS KNOWN TO INTRODUCE FIELD INSTABILITIES INTO THE IMAGING SYSTEM. THE VIBRATION EFFECTS ON IMAGE QUALITY CAN BE MINIMIZED DURING THE INITIAL SITE PLANNING OF THE MR SUITE BY MINIMIZING THE VIBRATION ENVIRONMENT. <b>SEE MOUNTING DETAIL ON SHEET S2</b> <b>FOR ADDITIONAL INFORMATION.</b>		Х —	
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•	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. DIMENSIONS ARE TO FINISHED SURFACES OF ROOM. CERTAIN MR PROCEDURES REQUIRE AN EXTREMELY STABLE ENVIRONMENT TO ACHIEVE HIGH RESOLUTION IMAGE QUALITY. VIBRATION IS KNOWN TO INTRODUCE FIELD INSTABILITIES INTO THE IMAGING SYSTEM. THE VIBRATION EFFECTS ON IMAGE QUALITY CAN BE MINIMIZED DURING THE INITIAL SITE PLANNING OF THE MR SUITE BY MINIMIZING THE VIBRATION ENVIRONMENT. <b>SEE MOUNTING DETAIL ON SHEET S2</b> <b>FOR ADDITIONAL INFORMATION.</b> STANDARD STEEL STUDS, NAILS, SCREWS, CONDUIT, PIPING, DRAINS AND OTHER HARDWARE ARE ACCEPTABLE IF PROPERLY SECURED. ANY LOOSE STEEL OBJECTS CAN BE VIOLENTLY ACCELERATED INTO THE BORE OF THE MAGNET. CAREFUL THOUGHT SHOULD BE GIVEN TO THE SELECTION OF LIGHT FIXTURES, CABINETS, WALL DECORATIONS, ETC. TO MINIMIZE THIS POTENTIAL HAZARD. FOR SAFETY, ALL REMOVABLE ITEMS WITHIN THE MAGNET ROOM SUCH AS FAUCET HANDLES, DRAIN COVERS, SWITCH BOX COVER PLATES, LIGHT FIXTURE COMPONENTS, MOUNTING SCREWS, ETC. MUST BE NON-MAGNETIC. IF YOU HAVE A SPECIFIC QUESTION ABOUT MATERIAL, BRING IT TO THE ATTENTION OF YOUR GE PROJECT MANAGER OF INSTALLATIONS.	R9		
•	ALL UNITS THAT ARE WALL MOUNTED OR WALL SUPPORTED ARE TO BE PROVIDED AND 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. DIMENSIONS ARE TO FINISHED SURFACES OF ROOM. CERTAIN MR PROCEDURES REQUIRE AN EXTREMELY STABLE ENVIRONMENT TO ACHIEVE HIGH RESOLUTION IMAGE QUALITY. VIBRATION IS KNOWN TO INTRODUCE FIELD INSTABILITIES INTO THE IMAGING SYSTEM. THE VIBRATION EFFECTS ON IMAGE QUALITY CAN BE MINIMIZED DURING THE INITIAL SITE PLANNING OF THE MR SUITE BY MINIMIZING THE VIBRATION ENVIRONMENT. <b>SEE MOUNTING DETAIL ON SHEET S2</b> <b>FOR ADDITIONAL INFORMATION.</b> STANDARD STEEL STUDS, NAILS, SCREWS, CONDUIT, PIPING, DRAINS AND OTHER HARDWARE ARE ACCEPTABLE IF PROPERLY SECURED. ANY LOOSE STEEL OBJECTS CAN BE VIOLENTLY ACCELERATED INTO THE BORE OF THE MAGNET. CAREFUL THOUGHT SHOULD BE GIVEN TO THE SELECTION OF LIGHT FIXTURES, CABINETS, WALL DECORATIONS, ETC. TO MINIMIZE THIS POTENTIAL HAZARD. FOR SAFETY, ALL REMOVABLE ITEMS WITHIN THE MAGNET ROOM SUCH AS FAUCET HANDLES, DRAIN SCREWS, ETC. MUST BE NON-MAGNETIC. IF YOU HAVE A SPECIFIC QUESTION ABOUT MATERIAL, BRING IT TO THE ATTENTION OF YOUR GE PROJECT MANAGER OF INSTALLATIONS. FLOOR LEVELNESS REFER TO MAGNET FLOOR MOUNTING DETAIL ON S2, THIS FLOOR LEVELNESS REQUIREMENT IS IMPORTANT FOR ACCURATE PATIENT TABLE DOCKING. NON-MOVABLE STEEL SUCH AS WALL STUDS OR HVAC COMPONENTS WILL PRODUCE NEGLIGIBLE EFFECT ON THE ACTIVE SHIELD MAGNET. 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	PROLECT	PROJECT 8–226f DATE: DRAWN BY	2 <u>7:</u> B`

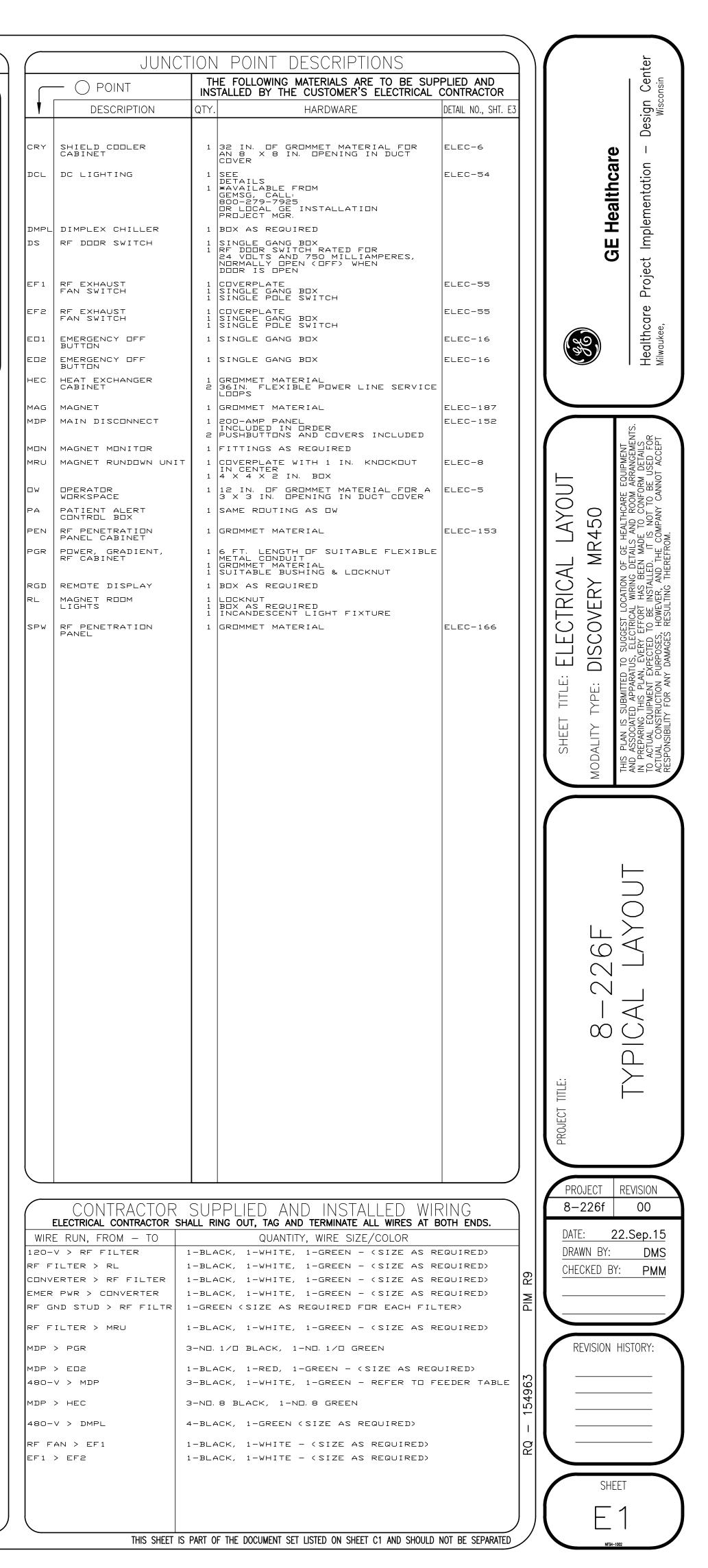
SUPPORT DETAIL CABLE CONCEALMENT	M05-15	OPERATOR WORKSPACE FLOOR MOUNTING
OF DELE CONTOLE LENELIN         REAR OF MAGNET         CABLE TRAY         CAST (13.3" (13.3" (13.3"))         CAST (211mm)         CAST (211mm)         PATIENT TABLE         FRONT OF MAGNET         DETAIL NOT TO SU         ACCOUSTIC NOISE LEVELS         ANY OF FACTORY-INSTALLED PROTOCOL CAN BE MODIFIED BY OP         SYSTEM ACOUSTIC NOISE LEVELS         ANY OF FACTORY-INSTALLED PROTOCOL CAN BE MODIFIED BY OP         OPERATING CONDITIONS         CONDER OPERATING CONDITIONS         OPERATING CONDITIONS         SYSTEM ACOUSTIC NOISE LEVELS         ANY OF FACTORY-INSTALLED PROTOCOL CAN BE MODIFIED BY OP         OPERATING CONDITIONS         OPERATING C	NOTE: • THIS DRAWING IS TO BE USED ONLY AS A perside intent document. REFER TO GE INSTALLATION MANUAL FOR TRAY INSTALL. ACTUAL TRAY INSTALLATION MAY BE SITE DEPENDENT. • THIS DRAWING NOT TO SCALE • MAXIMUM CONCEALMENT LENGTH IS 35.5" • MAXIMUM HEIGHT OF FINISHED CEILING IS 10'-0" CALE ERATORS, WHICH CAN INCREASE OR DECREASE ACCO ER OWN PROTOCOL WHICH COULD PRODUCE A HIGH CONDITION 1 BELOW. TYPICAL SCANS GENERATE A BELOW. IN ADDITION, THE EXPOSURE TIMES ARE ING PROTECTION IS REQUIRED FOR ALL PEOPLE IN ACOUSTIC LEVELS MAY EXCEED 99 dBA. AGAIN, F ACOUSTIC LEVELS MAY EXCEED 99 dBA. AGAIN, F ING. ETC., ACOUSTICAL CEILINGS, WALLS, AND FLOORS IEADINGS: 10 dBA 0 dBA 0.1 dBA IC LEVELS (AS MEASURED AT	ACT A Construction of the second part of the second
VIBRATION  THE MAGNET MAY BE SENSITIVE TO VIBRATIONS IN THE FREQ THE AMPLITUDE OF THE VIBRATION. IN THE PHYSICAL AREA IN PRECAUTION MUST BE TAKEN TO ENSURE THAT THE VIBRATIO THE STRUCTURAL STABILITY AND BEHAVIORAL CHARACTERISTIC OUTLINED CAN BE USED TO ASSESS THE VIBRATION ENVIRON VIBRATION STABILITY CRITERIA MAY PROCEED WITH INSTALLATI STABILITY REQUIRE SOURCE ISOLATION OR STRUCTURAL MODI RESPONSIBILITY TO CONTRACT A VIBRATION CONSULTANT OR IN MODIFICATIONS TO MEET THE SPECIFIED LIMITS. WITH THE V FIELD SERVICE AND/OR INSTALLATION SPECIALIST MUST VERIF IDENTIFIED SOURCES DO IMPROVE THE VIBRATION ENVIRONME SITE TEST RESULTS AND PREDICTING THE IMPACT ON SYSTEM CUSTOMER/ARCHITECT/ENGINEER RESPONSIBILITY TO DESIGN TO MINIMIZE THE INTERFERENCE, THE MAGNET SHOULD BE POSSIBLE FROM THE VIBRATION SOURCES, SUCH AS PARKING ELEVATORS, HELIPORTS AND HOSPITAL PHYSICAL PLANTS CON OR AIR CONDITIONING EQUIPMENT. PLEASE NOTE THAT OTHER ITEMS NOT LISTED COULD ALSO IN VIBRATION ISOLATION IS RECOMMENDED AT FLOOR CONNECTION INSTALLED FOR THE PURPOSE OF COOLING THE MR SUITE. ISOLATION OF THE MR MAGNET IS NOT A RECOMMEDED SOLI VIBRATION MEASUREMENTS SHOULD BE MADE WHEN THE PRO HERE. MEASUREMENTS SHOULD BE MADE USING A SPECTRU	WHERE THE MR SYSTEM IS TO BE LOCATED, EVERY ON IS MINIMIZED. IN THE MAGNET SITING AREA, SO CAN BE ASSESSED. THE VIBRATION TESTS JMENT. SITES WHICH CURRENTLY PASS THE ON. SITES WHICH HAVE MARGINAL VIBRATION IFICATIONS. THEN IT IS THE CUSTOMER'S QUALIFIED ENGINEER TO IMPLEMENT DESIGN /IBRATION CONSULTANT PRESENT, LOCAL GE FY THE ELIMINATION/REDUCTION OF ALL ENT. GE CAN ASSIST IN INTERPRETING MARGINAL M PERFORMANCE. ULTIMATELY IT REMAINS THE SITE SOLUTION. PLACED ON A SOLID FLOOR, LOCATED AS FAR AS G LOTS, ROADWAYS, SUBWAYS, TRAINS, HALLWAYS, NTAINING PUMPS, MOTORS, AIR HANDLING EQUIPMEN BE POTENTIAL SOURCES OF VIBTRATION. ON POINTS OF THE AIR CONDITIONING UNIT(S) TO B UTION FOR REDUCING ENVIRONMENTAL VIBRATION.	E 0.0005 g, ZERO TO PEAK TRIGGER LEVEL IS A STARTING POINT TO BEGIN UNDERSTATINE TRANSIENT VIBRATION PEAK AMPLITUDE, STRUCTURAL (TIME VARIANT) RESPONSE THE NUMBER OF EVENTS PER UNIT TIME WOULD CONSTITUTE A COMPLETE TRANSIEN MUST BE SUPPORTED BY TIME HISTORY PLOTS. THE PLOTS MUST CLEARLY SHOW FREQUENCY OF THE SIGNATURE AND THE DECAY RATE. FROM THIS DATA, GE CAN VIBRATION GUIDELINES. ES LISTED SUIDELINES. ES LISTED TEST CONSULTANT MUST PROVE DESIGN RECOMMENDATIONS FOR ALL SITES/BUILDING EXCEED THE SPECIFICATIONS. PRESENTATION/INTERPRETATION OF RESULTS (1.4) THE RECOMMENDED FORMAT FOR SITE VIBRATION DATA COLLECTION, PRESENTATION, IN THE EXAMPLES SHOWN IN ILLUSTRATIONS 1.1 THROUGH 1.4. IN THE PRE-INSTAL PRESENTATION OF THE DATA IN ANY OTHER FORMAT (LINEAR UNITS ONLY) MAY RESENTATION OF THE DATA IN ANY OTHER FORMAT (LINEAR UNITS ONLY) MAY RESENTATION OF THE DATA IN ANY OTHER FORMAT (LINEAR UNITS ONLY) MAY RESENTATION OF THE DATA IN ANY OTHER FORMAT (LINEAR UNITS ONLY) MAY RESENTATION OF THE DATA IN ANY OTHER FORMAT (LINEAR UNITS ONLY) MAY RESENTATION.
<ul> <li>TRANSIENT VIBRATION</li> <li>TIME HISTORY VIBRATION LEVELS (WITH ALL STEADY STATE VI TRIGGER OF 0.0005 g, ZERO TO PEAK MUST BE FULLY ANAL STRUCTURE. THE BUILDING (SPECTRAL) RESPONSE IMMEDIAT (ENDING AT THE DECAY OF THE VIBRATION SIGNAL) MUST NO STEADY STATE VIBRATION LEVELS DEFINDED BELOW.</li> <li>STEADY STATE VIBRATION LEVELS DEFINDED BELOW.</li> <li>STEADY STATE VIBRATION STATE VIBRATION TRANSMITTED THROUG FOLLOWING (ABOVE AMBIENT BASELINE):         <ul> <li>5 x 10<sup>-5</sup> g</li> <li>rms at 0 Hz ramping to 10 x</li> <li>10 x 10<sup>-5</sup> g</li> <li>rms 20-40 Hz</li> <li>25 x 10<sup>-5</sup> g</li> <li>rms 40-50 Hz</li> </ul> </li> </ul>	LYZED TO ASSESS THE POTENTIAL IMPACT TO THE F TELY FOLLOWING THE <b>0.0005 g, ZERO TO PEAK TRI</b> OT CAUSE THE SITE ENVIRONMENT TO EXCEED THE GH THE FLOOR MUST NOT EXCEED THE 10 g at 20 Hz	INTERPRETATION AND DIAGNOSIS OF THE SITE. ADDITIONAL DATA COLLECTION OR P AT THE OPTION OF THE VIBRATION TESTING SERVICE. IT IS THE RESPONSIBILITY OF THE CUSTOMER'S VIBRATION TESTING SERVICE TO INTI DETERMINE IF THAT SITE MEETS GE'S SPECIFICATIONS. ILLUSTRATIONS A-1 AND A- TO ASSIST A TEST CONSULTANT IN THE USE OF GE STEADY STATE SPECIFICATIONS ABOVE AMBIENT BASELINE). IF THE VIBRATION LEVELS ARE TOO HIGH, ADDITIONAL D NECESSARY TO: 0 DETERMINE THE SOURCE OF THE VIBRATION 0 PROPOSE A SOLUTION TO THE PROBLEM 0 FIND AN ALTERNATE SITE LOCATION. ILLUSTRATIONS A-3 AND A-4 IN THE PRE-INSTALLATION MANUAL ARE EXAMPLES P IN THE USE OF GE TRANSIENT SPECIFICATIONS. THE <b>500 MICRO-G, ZERO TO PEAK</b> COLLECTION TO BEGIN ASSESSMENT OF THE SITE VIBRATION ANALYSIS. THE RESPO
IN ORDER TO ENSURE THAT ANY DISCRETE SIGNAL REPRESENTE THE SIGNAL MUST HAVE A BANDWIDTH THAT TYPIFIES DYNAMI		ANY QUESTIONS REGARDING TEST EQUIPMENT REQUIREMENTS, TEST PAF QUESTIONS SHOULD BE DISCUSSED WITH YOUR GE PROJECT MANAGER.

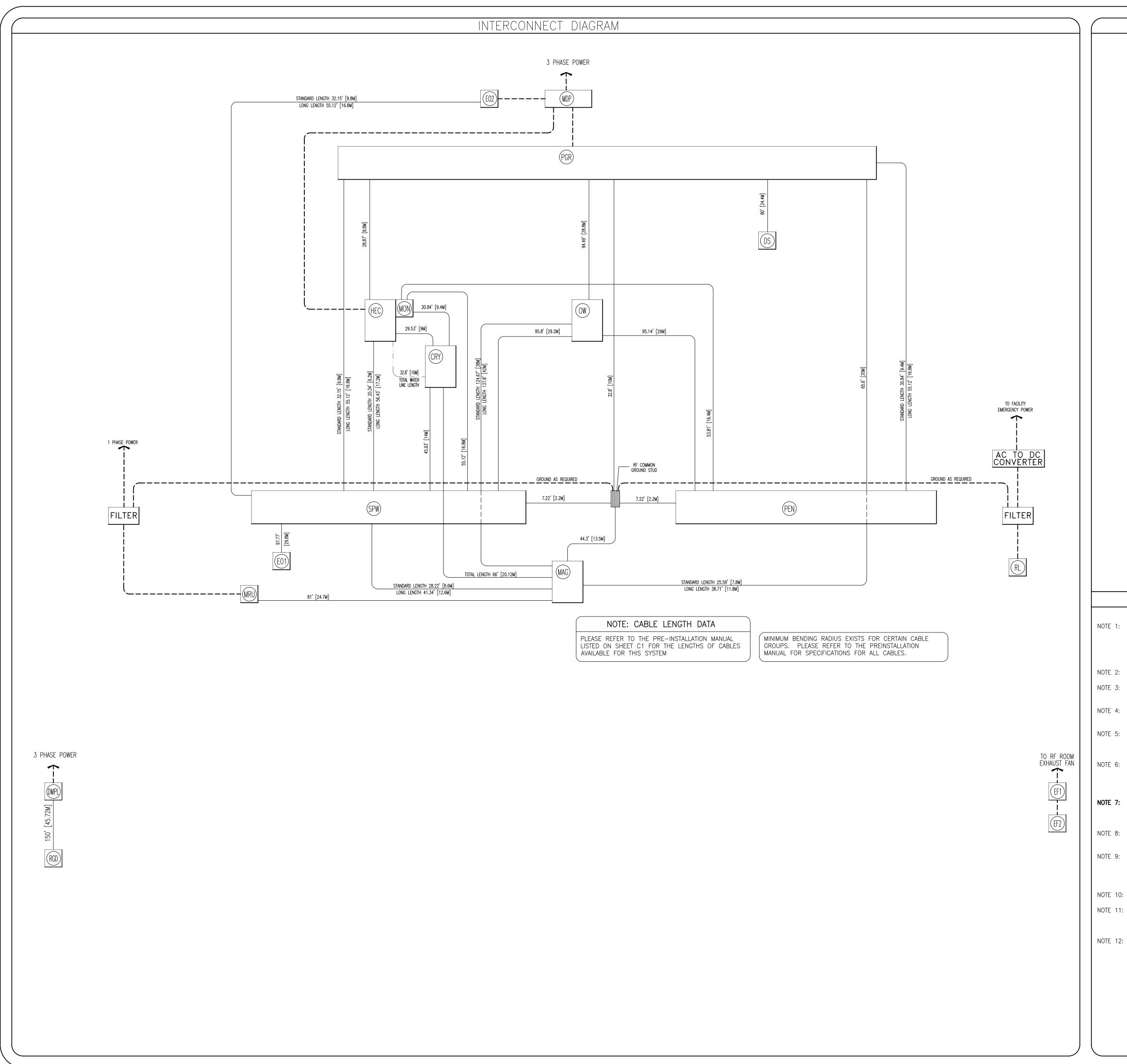




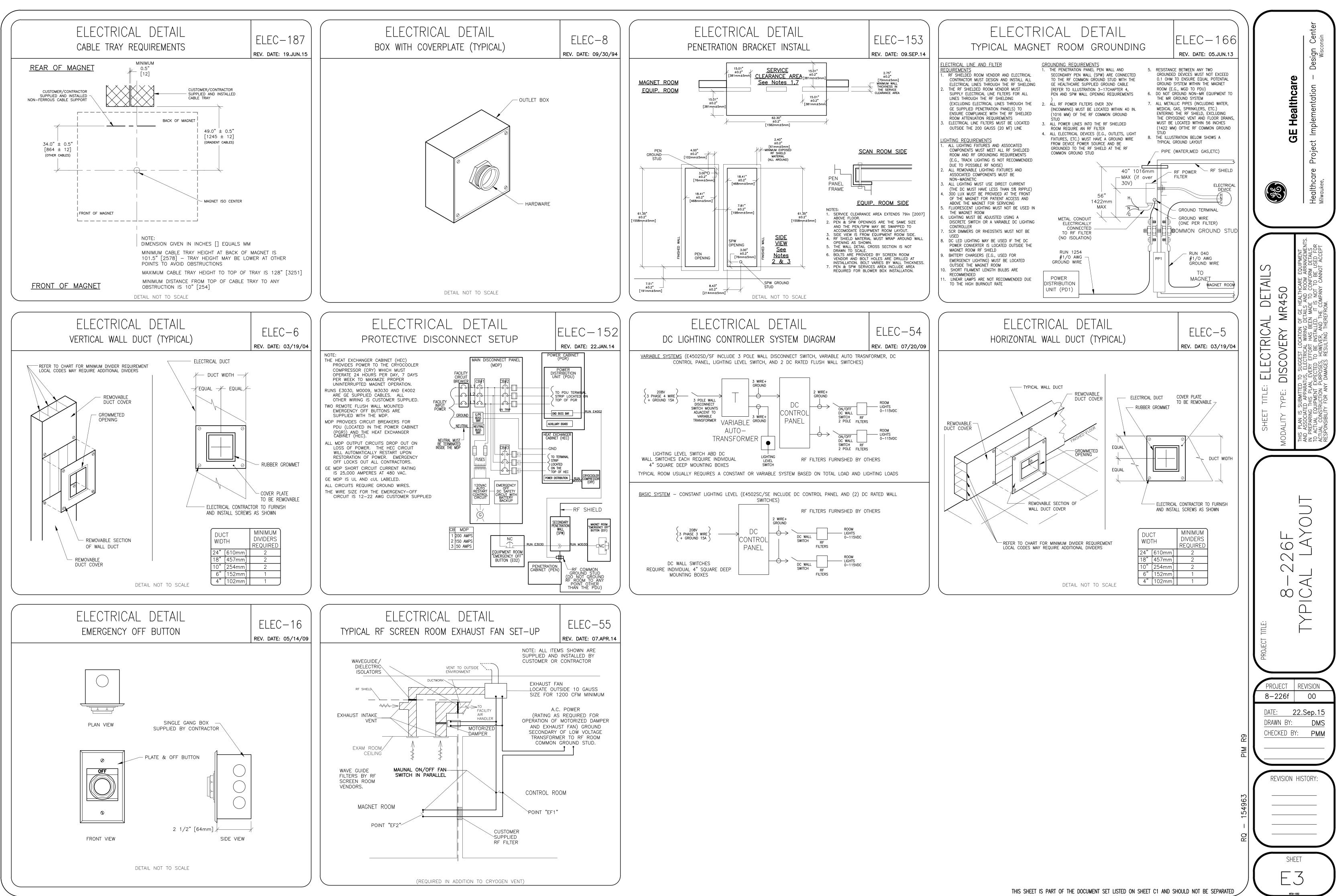
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OUTLET	RL	то	RF <b>#</b> 2 FILTER	ONE CND. AS REQ'D
	RF #2 FILTER	то	FACILITY EMERGENCY POWER	CONDUIT AS REQ'D
CONNECTION	NOTE	: SE	E E2 PAGE	FOR STANDARD RUN LE
	COND	UITS	s required	FOR Dimplex Chiller
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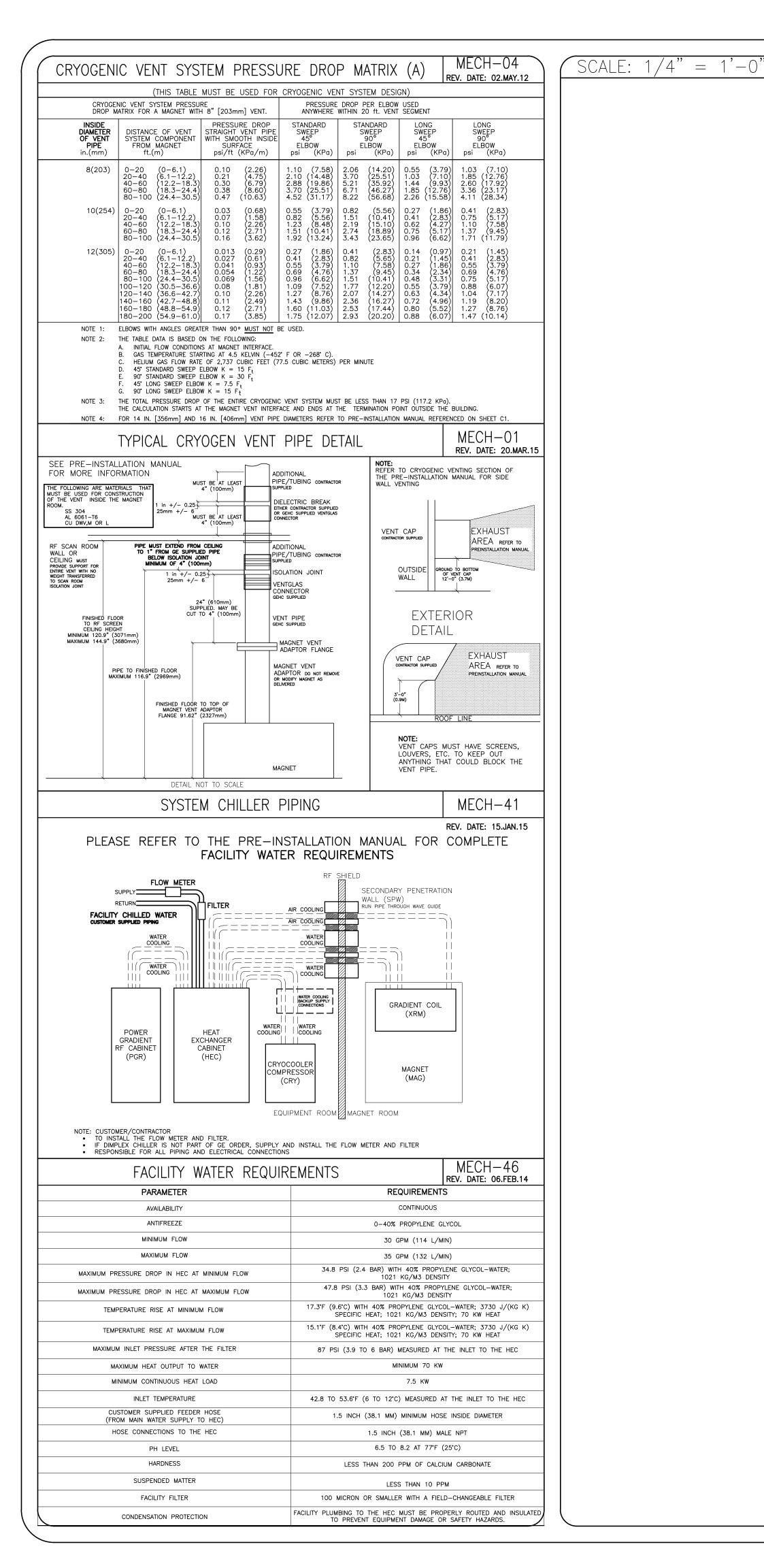
LCUL	ATIONS BASI	ED UPON A	
GROUN SECOI	IDING POINT NDARY, IT IS	CONDUIT A RECOMMEN DAMAGE TO	NDED
SCONN	IECT PANEL	AND NOT	
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DER	GROUND	FEEDER	GROUND
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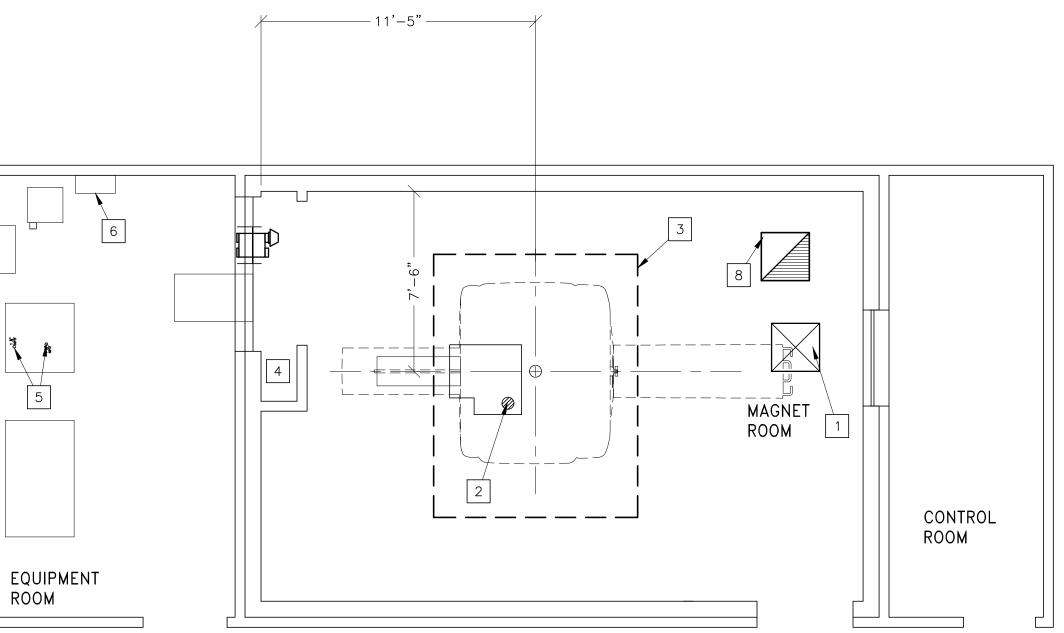


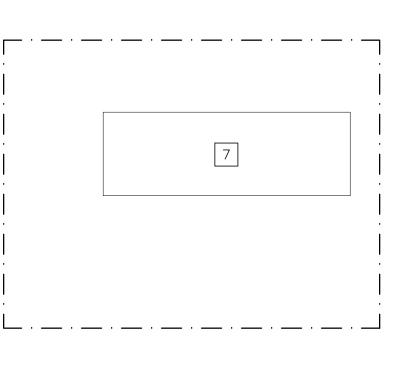
	POWER SPECIFICATIONS	Center
VOLTAGE	DISCOVERY/OPTIMA (REV. DATE 06.AUG.14) PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS. RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, 50 OR 60 Hz. RECOMMENDED POWER SUPPLY: WYE-WITH GROUND OR FLOATING DELTA WITH GROUND MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF THE RANGES IN TABLE A.	- Design
TABLE A ALLOWABLE INPUT VOLTAGES/ CURRENT DEMAND	NOMINAL VOLTAGEABSOLUTE RANGECURRENT (AMPS)MINIMUM STANDARD OVERCURRENT PROTECTION **380342-418187151200-A400360-440178143200-A415374-456171138200-A480432-528148119200-A	<b>GE Healthcare</b> Project Implementation –
PHASE— BALANCE.	<ul> <li>** OVERCURRENT PROTECTION SIZED FOR 125% CONTINUOUS CURRENT. (CALCULATIONS BASED UPON NOMINAL VOLTAGE).</li> <li>PHASE-TO-PHASE VOLTAGES MUST BE WITHIN 2 PERCENT OF THE LOWEST PHASE-TO-PHASE VOLTAGE. MAXIMUM ALLOWABLE TRANSIENT VOLTAGE EXCURSIONS ABOVE OR BELOW NOMINAL WAVESHAPE FORM NOT TO EXCEED 200V AT A MAXIMUM DURATION OF 1 CYCLE AND FREQUENCY OF 10 TIMES PER HOUR.</li> <li>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.</li> </ul>	Healthcare Milwaukee,
POWER DEMAND	MAXIMUM POWER DEMAND AVERAGED OVER 5 SECONDS = 123 KVA.SYSTEM EQUIPMENTPOWER DEMANDPDU 5 SECOND POWER (IN PGR)103 kVAHEC CONTINUOUS POWER (INCLUDING CRY)20 kVA	DECIFICATIONS R450 TIS NOT TO BE USED FOR COMPANY CANNOT ACCEPT ROM.
TABLE B MAXIMUM POWER DEMAND.	CRYO COMPRESSOR CONTINUOUS POWER (CRY)       9 kVA         STANDBY (NO SCAN) POWER DEMAND = 17 KVA.	S DETAIL BEEN MP THE THEREFA
DISTRIBUTION TRANSFORMER	4 PERCENT FROM POWER SOURCE. FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 225 KVA. REGULATED TRANSFORMER IS NOT REQUIRED UNLESS VOLTAGE CHANGES EXCEED ±10% OVER A PERIOD OF 1 HOUR OR LONGER. REFER TO PRE-INSTALLATION MANUAL FOR ADDITIONAL INFORMATION	TYPE: DI SUBMITTE TO ATED APPARATUS, G THIS PLAN, EV G THIS PLAN, EV C THIS PL
	ELECTRICAL NOTES	OUT ANDALITY MODALITY MODALITY AND ASSOCI IN PREPARIN TO ACTUAL CON RESPONSIBIL
LONG AT OUTLET BOXE ALL CONDUCTORS, POV CONTRACTOR SHALL RI STRANDED AND FREE F WIRE SIZES GIVEN ARE IT IS RECOMMENDED T ELECTRICAL CODES. CONDUIT SIZES SHALL LOCAL OR NATIONAL C CONVENIENCE OUTLETS LOCATE AT LEAST ONE ONE ON EACH WALL O GENERAL ROOM ILLUMI OVERHEAD SPOTLIGHTS ARE USED. RECOMMEN	<ul> <li>SHALL BE COPPER STRANDED, FLEXIBLE, THERMO-PLASTIC, COLOR CODED, CUT 10 FOOT IS, DUCT TERMINATION POINTS OR STUBBED CONDUIT ENDS.</li> <li>VER, SIGNAL AND GROUND, MUST BE RUN IN A CONDUIT OR DUCT SYSTEM. ELECTRICAL NG OUT AND TAG ALL WIRES AT BOTH ENDS. WIRE RUNS MUST BE CONTINUOUS COPPER FROM SPLICES. ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.</li> <li>FOR USE OF EQUIPMENT. LARGER SIZES MAY BE REQUIRED BY LOCAL CODES.</li> <li>HAT ALL WIRES BE COLOR CODED, AS REQUIRED IN ACCORDANCE WITH NATIONAL AND LOCAL</li> <li>BE VERIFIED BY THE ARCHITECT, ELECTRICAL ENGINEER OR CONTRACTOR, IN ACCORDANCE WITH ODES.</li> <li>ARE NOT ILLUSTRATED. THEIR NUMBER AND LOCATION ARE TO BE SPECIFIED BY OTHERS. CONVENIENCE OUTLET CLOSE TO THE SYSTEM CONTROL, THE POWER DISTRITBUTION UNIT AND IF THE PROCEDURE ROOM. USE HOSPITAL APPROVED OUTLET OR EQUIVALENT.</li> <li>NATION IS NOT ILLUSTRATED. CAUTION SHOULD BE TAKEN TO AVOID EXCESSIVE HEAT FROM. DAMAGE CAN OCCUR TO CEILING MOUNTING COMPONENTS AND WIRING IF HIGH WATTAGE BULBS D LOW WATTAGE BULBS NO HIGHER THAN 75 WATTS AND USE DIMMER CONTROLS (EXCEPT MR).</li> </ul>	project title:
FOR GREATER THAN ST LENGTHS POINT TO PO CONDUIT TURNS TO HA ELECTRICAL CODES. A SPECIAL GROUNDING RECOMMENDED IN ARE CONDITIONS. CONSULT PERSONNEL TO DETERM	AVE LARGE, SWEEPING BENDS WITH MINIMUM RADIUS IN ACCORDANCE WITH NATIONAL AND LOCAL SYSTEM IS REQUIRED IN ALL PROCEDURE ROOMS BY SOME NATIONAL AND LOCAL CODES. IT IS AS WHERE PATIENTS MIGHT BE EXAMINED OR TREATED UNDER PRESENT, FUTURE, OR EMERGENCY THE GOVERNING ELECTRICAL CODE AND CONFER WITH APPROPRIATE CUSTOMER ADMINISTRATIVE MINE THE AREAS REQUIRING THIS TYPE OF GROUNDING SYSTEM.	PROJECT REVISION 8-226f 00 DATE: 22.Sep.15 DRAWN BY: DMS CHECKED BY: PMM
<ul> <li>PHYSICAL CONNECTION WITH THE SUPERVISION PHYSICAL CONNECTION</li> <li>GEHC CONDUCTS POWE</li> </ul>	OF PRIMARY POWER TO GE EQUIPMENT IS TO BE MADE BY CUSTOMERS ELECTRICAL CONTRACTOR I OF A GE REPRESENTATIVE. THE GE REPRESENTATIVE WOULD BE REQUIRED TO IDENTIFY THE LOCATION, AND INSURE PROPER HANDLING OF GE EQUIPMENT. ER AUDITS TO VERIFY QUALITY OF POWER BEING DELIVERED TO THE SYSTEM. THE CUSTOMER'S DR IS REQUIRED TO BE AVAILABLE TO SUPPORT THIS ACTIVITY.	C REVISION HISTORY:
	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] THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED	SHEET E 2





### MECHANICAL/PLUMBING LAYOUT





С	MECHANICAL/PLUMBING ITEMS JSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS			Design Center <sup>Wisconsin</sup>
ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING) MINIMUM 2 FT. × 2 FT. [0.61m × 0.61m] PRESSURE EQUALIZING WAVEGUIDE VENT IN THE MAGNET ROOM CEILING. REFER TO PRE-INSTALLATION MANUAL FOR CRYDGEN VENT REQUIREMENTS. SEE SHEET S-2 FOR CRYDGEN VENT LOCATION. 8° [203 mm] CRYDGEN VENT - TOLERANCE FOR VENT LOCATION +/-0.25° [6 mm]. SEE CRYDGEN VENT DETAILS. THE CUSTOMER'S DESIGNER IS RESPONSIBLE FOR SELECTING VENT MATERIALS AND HARDWARE CAPABLE OF SAFELY HANDLING THE PRESSURES AND COLD TEMPERATURE GENERATED WITHIN THE VENT AT EACH MRI SITE. THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE CRYDGEN VENT FROM THE MAGNET VENT ADAPTER TO THE BUILDING'S EXTERIOR. FOR NON-STANDARD VENT CONFIGURATIONS (I.E. OFFSET CEILING EXITS, WALL EXITS, AND GEODESIC DOMES) THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE CRYDGENIC VENT SYSTEM AND VENT SUPPORTS			Healthcare Project Implementation – De Milwaukee,
3 4 5	WITHIN THE MAGNET ROOM. MINIMUM CEILING HEIGHT REQUIREMENT AREA. REFER TO MAGNET EQUIPMENT DETAILS FOR MORE INFORMATION CLOSET MUST ALLOW FREE AIR EXCHANGE OF 400 CFM (680 M3/HR) BETWEEN MAGNET ROOM AND CLOSET TWO (2) 1 1/2 IN. [38MM] COPPER LINES (INSULATED) TWO (2) SHUT OFF VALVES. REFER TO SYSTEM CHILLER PIPING DETAIL. PLEASE REFER TO THE PRE-INSTALLATION MANUAL FOR COMPLETE FACILITY WATER REQUIREMENTS.			$\prec$
6	REFER TO EQUIPMENT DETAIL BO5-71 FOR MORE INFORMATION PROVIDE AS NEEDED - LOW PRESSURE RUBBER MULTIPURPOSE HOSE, INSIDE DIA. 1/2' WORKING PRESSURE RANGE: 20 2' I.D. HIGH PRESSURE HOSES AND (2) 2' I.D. HIGH PRESSURE HOSES AND HIGH PROVE HORE. MAGNET ROOM EXHAUST FAN INTAKE VENT MUST BE LOCATED AT THE HIGHEST CEILING PLANE NEAR THE MAGNET CRYDGEN VENT.	SHEFT TITLE: MECHANICAL LAYOLIT	Y TYPE: DISCOVERY MR4	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.
o F M Q O A C H F	MECHANICAL/PLUMBING NOTES ILL PIPING, FITTINGS, SUPPORTS, HOSES, CLAMPS, VENTLATION SYSTEMS, ETC. ARE TO is SUPPLIED AND INSTALLED BY THE CUSTOMER OR HIS CONTRACTORS. OR COMPLETE DESIGN AND REQUIREMENTS, SPECIFICATIONS AND GUIDELINES IEFER TO THE PRE-INSTALLATION MANUAL: IRL SYSTEMS – SYSTEM COOLING, CRYOGEN VENTING, WAVEGUIDES AND EXHAUST VENTING. IYCLOTRON SYSTEMS – CHEMISTRY LINES, GAS LINES, AND SYSTEM COOLING. N EMERGENCY WATER COOLING BACK-UP SUPPLY IS RECOMMENDED FOR CONTINUOUS RYOGEN COMPRESSOR OPERATION. - USING AN OPEN LOOP BACK-UP DESIGN, ENSURE A DRAIN IS PROVIDED. LEASE REFER TO THE PRE-INSTALL MANUAL FOR OPTIONAL BACK-UP COOLANT SUPPLY EQUIREMENTS	PROJECT TITLE:	L Q C O O O	TYPICAL LAYOUT
		3 <u>D</u> D	8–226f ATE: RAWN BY: HECKED E	00 22.Sep.15 DMS
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