

			Typical
REV	DATE	MODIFICATIONS	

01 - C1 - Cover Sheet

02 - C2 - Disclaimer - Site Readiness

03 - A1 - General Notes

04 - A2 - Equipment Layout

05 - A3 - Section Views

06 - A4 - Equipment Details & Delivery

07 - S1 - Structural Notes

08 - S2 - Structural Layout

09 - S3 - Structural Details (1)

10 - S4 - Structural Details (2)

11 - M1 - HVAC

12 - E1 - Electrical Notes

13 - E2 - Electrical Layout

14 - E3 - Electrical Elevations

15 - E4 - Details-Interconnections

16 - E5 - Power Requirements

GE Healthcare

DISCOVERY XR 656 PLUS (G2) FINAL STUDY

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 does not take responsibility for any damages resulting from changes on drawings made by others. Errors may occur by not referring to the complete set of final issue drawing. GE cannot accept responsibility for any damage due to the partial use of GE final issue drawings, however caused. All dimensions are in millimeters unless otherwise specified. Do not scale from printed pdf files. GE accepts no responsibility or liability for defective work due to scaling from these drawings.

n	Drawn by PMM		Verified by	Concession	S.O. (GON)	PIM Manual	Rev
			RET		-	5643834-1EN	7
e 	Format	Scale		File Name		Date	Sheet
k	A3	1/4"=1'-0" EN-RAD-TYP-XR_656_PLUS_(G2)-NF.DWG		26/Feb/2025	01/16		

DISCLAIMER

GENERAL SPECIFICATIONS

- GE is not responsible for the installation of developers and associated equipment, lighting, cassette trays and protective screens or derivatives not mentioned in the order.
- The final study contains recommendations for the location of GE equipment and associated devices, electrical wiring and room arrangements. When preparing the study, every effort has been made to consider every aspect of the actual equipment expected to be installed.
- The layout of the equipment offered by GE, the dimensions given for the premises, the details provided for the pre-installation work and electrical power supply are given according to the information noted during on-site study and the wishes expressed by the customer.
- The room dimensions used to create the equipment layout may originate from a previous layout and may not be accurate as they may not have been verified on site. GE cannot take any responsibility for errors due to lack of information.
- Dimensions apply to finished surfaces of the room.
- Actual configuration may differ from options presented in some typical views or tables.
- If this set of final drawings has been approved by the customer, any subsequent modification of the site must be subject to further investigation by GE about the feasibility of installing the equipment. Any reservations must be noted.
- The equipment layout indicates the placement and interconnection of the indicated equipment components. There may be local requirements that could impact the placement of these components. It remains the customer's responsibility to ensure that the site and final equipment placement complies with all applicable local requirements.
- All work required to install GE equipment must be carried out in compliance with the building regulations and the safety standards of legal force in the country concerned.
- These drawings are not to be used for actual construction purposes. The company cannot take responsibility for any damage resulting therefrom.

CUSTOMER RESPONSIBILITIES

- It is the responsibility of the customer to prepare the site in accordance with the specifications stated in the final study. A detailed site readiness checklist is provided by GE. It is the responsibility of the customer to ensure all requirements are fulfilled and that the site conforms to all specifications defined in the checklist and final study. The GE Project Manager of Installation (PMI) will work in cooperation with the customer to follow up and ensure that actions in the checklist are complete, and if necessary, will aid in the rescheduling of the delivery and installation date.
- Prior to installation, a structural engineer of record must ensure that the floor and ceiling is designed in such a way that the loads of the installed system can be securely borne and transferred. The layout of additional structural elements, dimensioning and the selection of appropriate installation methods are the sole responsibility of the structural engineer. Execution of load bearing structures supporting equipment on the ceiling, floor or walls are the customer's responsibility.

RADIO-PROTECTION

Suitable radiological protection must be determined by a qualified radiological physicist in conformation with local regulations. GE does not take responsibility for the specification or provision of radio-protection.

THE UNDERSIGNED, HEREBY CERTIFIES THAT I HAVE READ AND APPROVED THE PLANS IN THIS DOCUMENT.				
DATE NAME SIGNATURE				

CUSTOMER SITE READINESS REQUIREMENTS

REQUIRED MANUALS FOR	SYSTEM PRE-INSTALLATION
Description	Document Number*
Product specific Pre-installation Manual	Refer to cover page
*documents can be accessed in multiple languages	at https://www.gehealthcare.com/support/manuals

- 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.
- The items on the GE HealthCare Site Readiness Checklists listed below are REQUIRED to facilitate equipment delivery to the site. Equipment will not be delivered if these requirements are not satisfied.

REQUIRED SITE-READINESS CHECKLISTS FOR SYSTEM PRE-INSTALLATION				
Modality	Document Number*			
Computerized Tomography	DOC2949059			
Radiology, Radiology and Fluouroscopy, Mammography, Bone Mass Densitometry	DOC2949063			
All modality Customer/Contractor Worksheet	DOC2949068			
*documents can be accessed in multiple languages a	at https://www.gehealthcare.com/support/manuals			

- 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;
 - Secure area for equipment,
 - 2. Power for drills and other test equipment,
 - Restrooms.
- Provide for refuse removal and disposal (e.g. crates, cartons, packing)
- For CT systems it is required to minimize vibrations within the scan room. 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 Pre-installation manual for vibration specifications.

ENVIRONMENTAL SPECIFICATIONS

MAGNETIC INTERFERENCE

In order to avoid interference on the system, static field limits from the surrounding environment must be less than <1 Gauss around the unit.

LIGHT REQUIREMENTS

For the electronic ballast of fluorescent lamp in exam room, the operating frequency should be above 42 kHz.

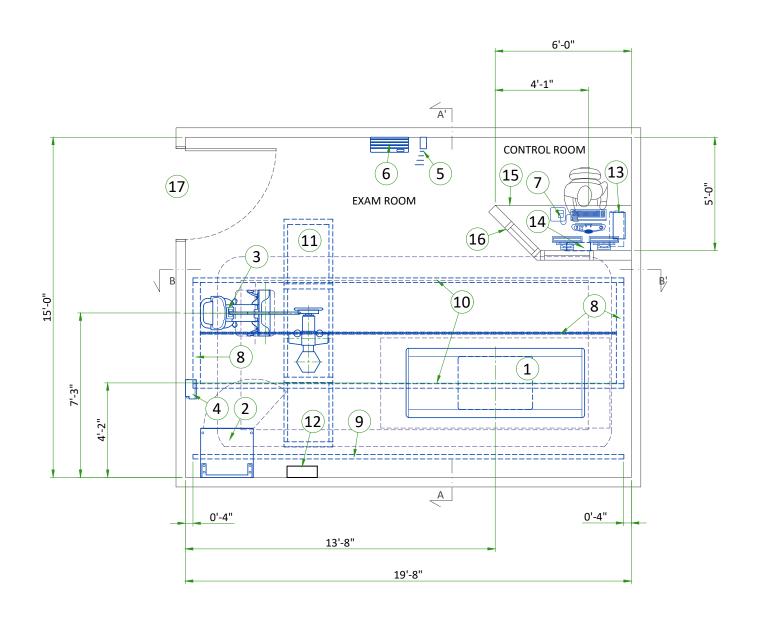
ACOUSTIC OUTPUT

Measured 1 m [3.28 ft] from any point in system.

In-use: less than 55 dBA Stand-by: less than 55 dBA

Typical | DISCOVERY XR 656 PLUS (G2) | EN-RAD-TYP-XR 656 PLUS (G2)-NF.DWG | Rev B|Date 26/Feb/2025 | A1 - General Notes

03/16



1							
	LEGEND						
Α	GE SU	JPPLIED	D	AVA	AVAILABLE FROM GE		
В	GE SUPPLIED/CONTRACTOR INSTALLED		Е	EQU	EQUIPMENT EXISTING IN ROOM		
С	C CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED		*	ITEM TO BE REINSTALLED FROM ANOTHER SITE			DM
ву	ITEM	DESCRIPTION	HE.	MAX HEAT WEIGHT OUTPUT (lbs) (BTU/h)		MAX HEAT OUTPUT (W)	WEIGHT (kg)
Α	1	ELEVATING TABLE G2	23	30	970	683	440
Α	2	SYSTEM CABINET	48	69	706	1427	320
Α	3	STANDARD WALL STAND G2	37	79	595	111	270
Α	4	TETHER INTERFACE BOX (TIB)	23	32	15	68	7
Α	5	DONGLE ASSEMBLY	-		2	-	0.8
Α	6	GRID HOLDER	-		30	-	13.8
Α	7	OPERATOR CONSOLE	863		79	253	36
Α	8	DRIVE BELT AND ANCHOR RAILS	-		-	-	-
Α	9	CABLE DRAPE RAIL	-		-	-	-
Α	10	LONGITUDINAL STATIONARY RAILS	-	-	-	-	-
Α	11	OTS WITH 3 m BRIDGE	20	47	1147	600	520
D	12	MAIN DISCONNECT PANEL	-	-	-	-	-
Α	13	PARTIAL UPS	-		26	-	12
Α	14	WALL BOX	-		11	-	5
С	C 15 COUNTER TOP FOR EQUIPMENT- PROVIDE GROMMETED OPENINGS AS REQUIRED TO ROUTE CABLES						
С	16	CONTROL WALL, 7 FT. HIGH WITH LEAD	GLASS '	VIEWI	NG WINDOV	V	
С	MINIMUM OPENING FOR EQUIPMENT DELIVERY IS 950 mm x 1900 mm [37.5 in x 75 in], CONTINGENT ON A 2500 mm [96 in] CORRIDOR WIDTH (NOTE: IMAGE PASTE OPTION REQUIRES AN 1100 mm x 2100 mm [44 in x 82 in] OPENING)						
	*REFER TO HEAT DISSIPATION DETAIL ON PAGE M1 FOR SYSTEM HEAT LOAD INFORMATION						

APPLICATIONS

The chart shows the applications possible to perform with the present equipment positioning, however the sales contract may not include all of them.

Auto Image Pasting at Wall Stand		YES
Auto Image Pasting at Table		
VolumeRAD	Horizontal at Extended Arm Wall stand	NO
	Vertical at Wall stand	YES
	Cross-Table at Wall stand	YES
	Horizontal at Table	YES

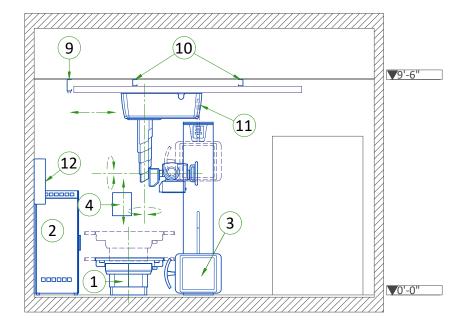
THE FOLLOWING SHOTS ARE NOT AVAILABLE IN THIS LAYOUT

REAR TO FRONT CROSS TABLE SHOT

EXAM ROOM HEIGHT			
FINISHED FLOOR TO SLAB HEIGHT	TBD		
FALSE CEILING HEIGHT	rec. 9'-6"		

For Accessory Sales: (866) 281-7545 Options 1, 2, 1, 2 or mail to: gehcaccessorysales@ge.com

SIDE VIEW A-A'

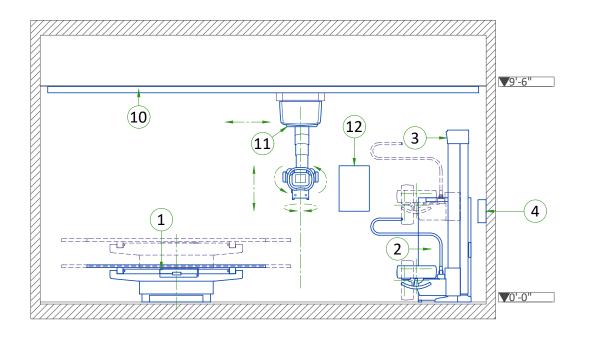


EXAM ROOM CEILING HEIGHTS

RECOMMENDED AND MINIMUM ROOM HEIGHTS					
CONFIGURATION	SPECIFICATION	CEILING HEIGHT [mm]	CEILING HEIGHT [in]		
2m, 3m or 4-meter Bridge	Recommended	2895.6 mm	114 in		
2m, 3m Bridge with Advanced Applications	Minimum	2692.4 mm	106 in		
2m, 3m Bridge without Advanced Applications	Minimum	2616.2 mm	103 in		
4m Bridge with Advanced Applications	Minimum	2698.75 mm	106.25 in		
4m Bridge without Advanced Applications	Minimum	2622.55 mm	103.25 in		
3m Bridge with Wallstand at Front Position	Minimum	2870 mm	113 in		
4m Bridge with Wallstand at Front Position	Minimum	2876.35 mm	113.25 in		

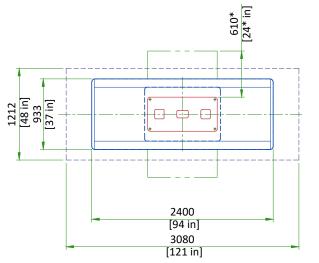
Note: measured from the floor to the top of the longitudinal rails

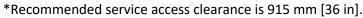
FRONT VIEW B-B'

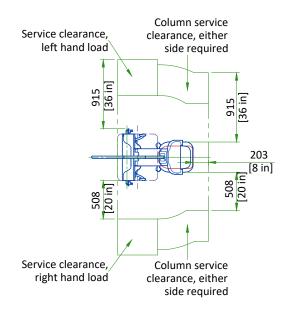


CLEARANCE AREAS

G2 TABLE WITH STANDARD WALLSTAND





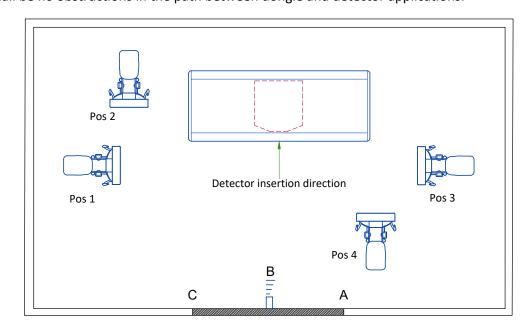


SCALE 1:50

DONGLE POSITIONING

DONGLE DEFAULT LOCATION AND ADJUSTING RANGE:

- Dongle shall be positioned at the wall of detector insertion direction.
- B is the best position which is in the middle of the wall.
- The height requirement of dongle is 30cm lower than the ceiling.
- Position "A" to "C" (around ±1m) are acceptable locations for dongle.
- There shall be no obstructions in the path between dongle and detector applications.



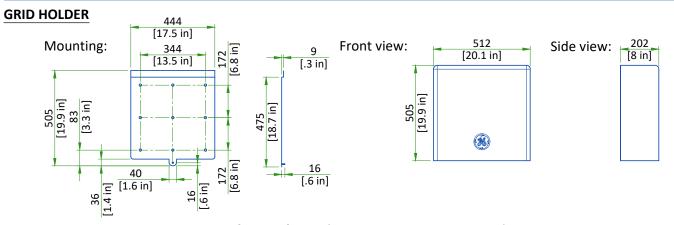
DELIVERY

THE CUSTOMER/CONTRACTOR SHOULD:

- Provide an area adjacent to the installation site for delivery and unloading of the GE equipment.
- Ensure that the dimensions of all doors, corridors, ceiling heights are sufficient to accommodate the movement of GE equipment from the delivery area into the definitive installation room.
- Ensure that access routes for equipment will accommodate the weights of the equipment and any transportation, lifting and rigging equipment.
- Ensure that all necessary arrangements for stopping and unloading on public or private property not belonging to the customer have been made.

EQUIPMENT	DIMENSIONS LxWxH mm (in)	WEIGHT kg (lb)	
STANDARD WALLSTAND	2111x911x1860 (83.1x35.9x73.2)	284 kg (626 lbs) + dolly	
EXTENDED WALLSTAND	2340x911x1860 (92.1x35.9x73.2)	292 kg (644 lbs) + dolly	
GLOBAL G2 TABLE	2400x940x800 (95x37x31.5)	440 kg (970 lbs) + dolly	
STATIONARY RAILS (5.79 m (19 ft)) (set of 2 rails)	5920x62.5x84.3 (233.1x2.5x3.3)	63 kg (138 lbs)	
OTS	1440x1130x980 (56.7x44.5x38.6)	332 kg (732 lbs)	
2M or 3M BRIDGE	3254x794x500 (128.1x31x19.7)	172 kg (380 lbs)	
4M BRIDGE	4554x794x500 (4547x31x19.7)	246 kg (542 lbs)	

GRID HOLDER



Grid Holder should be installed 10cm to 20cm [4in to 8in] height from the Grid Holder bottom to the floor.

SCALE 1:20

STRUCTURAL NOTES

- Methods of support for the steelwork that will permit attachment to structural steel or through bolts in concrete construction should be favored. Do not use concrete or masonry anchors in direct tension.
- All units that are wall mounted or wall supported are to be provided with supports where necessary. Wall supports are to be supplied and installed by the customer or his contractors. See plan for suggested locations.
- Control walls shall be constructed to minimum 2130mm (7'-0") high.
- Dimensions are to finished surfaces of room.
- Customers contractor must provide all penetrations in post tension floors.
- Customers contractor must provide and install any non-standard anchoring. Documents for standard anchoring methods are included with GE equipment drawings for geographic areas that require such documentation.
- Customers contractor must provide and install hardware for "through the floor" anchoring and/or any bracing
 under access floors. This contractor must also provide floor drilling that cannot be completed because of an
 obstruction encountered while drilling by the GE installer such as rebar etc.
- 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 cables or rebar)) will interfere or come in contact with subsurface penetration operations (e.g. drilling and installation of anchors/screws) performed during the installation process. To ensure worker safety, GE installers will perform surface penetration operations only after the customer's validation and completion of the "GE surface penetration permit".
- Different anchor types are used to install the components of the system. Refer to Structural Requirements Section(s) of the Pre-Installation Manual for each anchor requirement.
- Refer to the Structural Requirements Section for the required minimum embedment.
- The ground surface must be flat and leveled, maximum tolerance for leveling is ±1.5 mm per 1 m (0.2 in per 10 feet). A grout pad provided by the contractor is required to meet this specification. The maximum pad thickness is 6.3 mm (0.25 in).

CEILING REQUIREMENTS

To allow installation of the stationary rail cross-members, clearance is required between the ends of the stationary rails and the walls.

It is recommended that sprinkler heads not be placed between the stationary rails. All sprinkler heads should be mounted so they do not extend downward more than 6.35 mm [1/4 in] from the ceiling while in the 'resting' position.

In addition, there should not be anything mounted in the ceiling (i.e. lights, A/C returns, etc) between the stationary rails. This is because the OTS longitudinal drive belt assembly is located on the movable bridge, approximately centered between the two stationary rails, and may come into contact with those ceiling-mounted items during normal use.

Stationary rails are designed for top (ceiling) mounting. Rails can be ordered and are supplied in the following sizes:

- 4115 mm [13 ft 6 in]

- 5334 mm [17 ft 6 in]

- 4420 mm [14 ft 6 in]

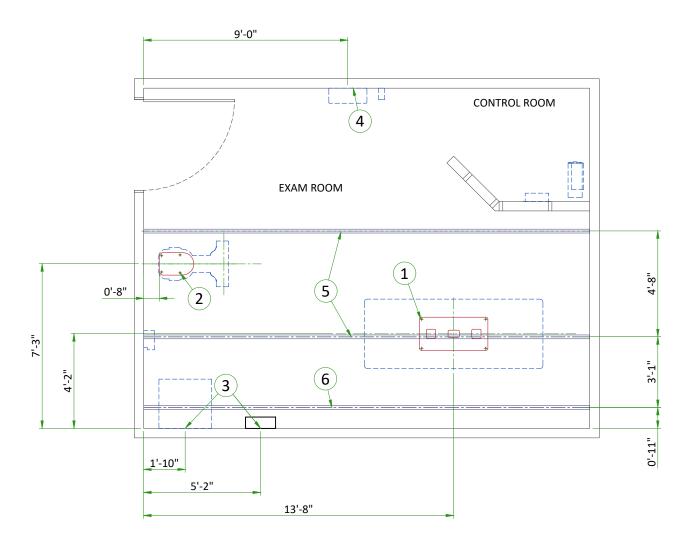
- 5640 mm [18 ft 6 in]

- 4724 mm [15 ft 6 in]

- 5791 mm [19 ft]

- 5030 mm [16 ft 6 in]

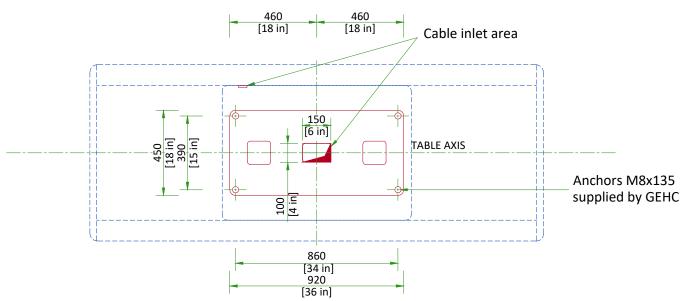
The choice of length depends on room size, configuration and the possible presence of obstructions.



ITEM	DESCRIPTION					
	(GE SUPPLIED / CONTRACTOR INSTALLED)					
1	Area occupied by GE supplied table baseplate					
2	Area occupied by GE supplied wall stand baseplate					
	(CONTRACTOR SUPPLIED & INSTALLED)					
3	Support backing, locate as shown.					
4	Support backing for Grid Holder, locate as shown. Refer to Equipment Detail page.					
5	Structural support in ceiling for fastening ceiling supported equipment. Supports to run continuous with no fittings extending below face of channel, run wall to wall, be parallel, square, and in the same horizontal plane, flush with the finished ceiling. Rails are mounted to these supports every 2'-2" and require 350 lbs. (597 lbs. In seismic regions) per bolt load. Methods of support that permit attachment to structural steel or through bolts in concrete should be favored. Do not use screw anchors in direct tension.					
6	Structural support in ceiling for fastening cable drape rail. Supports to run continuous with no fittings extending below face of channel, run wall to wall, be parallel, square, and in the same horizontal plane, flush with the finished ceiling. Rails are mounted to these supports every 2'-2" and require 50 lbs. Per bolt load. Methods of support that permit attachment to structural steel or through bolts in concrete should be favored. Do not use screw anchors in direct tension.					

TABLE ANCHORING

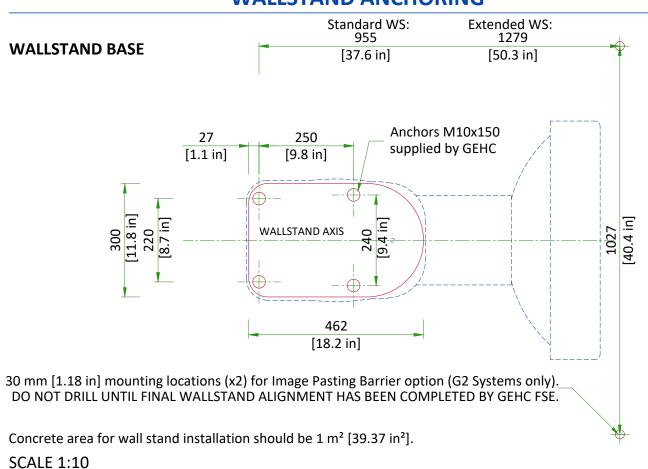
TABLE STAND



The floor bearing the system is recommended to be concrete and the thickness to be determined by a Structural Engineer to properly support the equipment loads. The supplied anchors require a minimum embedment of 90 mm [3.54 in] into the concrete. If the floor thickness is less than 95 mm [3.74 in], it is recommended that the unit be secured using a through-bolt method with a reinforcement plate on the back side.

SCALE 1:20

WALLSTAND ANCHORING



OTS SUSPENSION RAILS MOUNTING SPECIFICATIONS

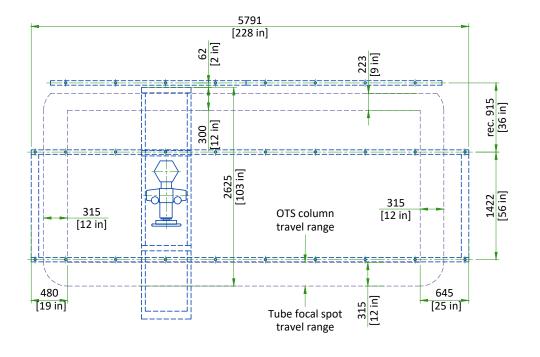
When a 45.4 kg [100 lb] force is applied vertically upward

3 m BRIDGE

at any stationary rail mounting point, the attachment When a 22.7 kg [50 lb] force is applied vertically interface must not deflect more than 1.5 mm [1/16 in] upward, downward or horizontally at any support rail mounting point, the attachment interface must not deflect more than 1.5 mm [1/16 in] min. 883/rec. 950 ±3 mm [min. 34.8/rec. 37.4 ±1/8 in] When a 136 kg [300 lb] load is applied vertically downward or horizontally at 1422 ±3 mm any stationary rail mounting point, the [56 ±1/8 in] attachment interface must not deflect more than 1.5 mm [1/16 in] 660.4 ±1.5 mm Diagonals must be equal [26 ±1/16 in] within ± 6.5 mm $[\pm 1/4 in]$ Cable takeup support rail mounting points All mounting point must be located on a common centerline Stationary rail mounting within ± 1.5 mm [$\pm 1/16$ in] points must be parallel All mounting points must be in the same within ±3 mm [±1/8 in] horizontal plane within ±2.4mm [±3/32 in]

Distance between holes axis 660.4 mm [26 in], Maximum load per screw is 159 kg [350 lb], however each mounting screw must not "PULL OUT" or otherwise fail under a vertically downward dead load of 636 kg [1400 lb]. Bolts for mounting stationary rails on Unistrut or equivalent supplied by GE (1/2" - 13 headed bolts)

FOCAL SPOT TRAVEL WITH 3M BRIDGE

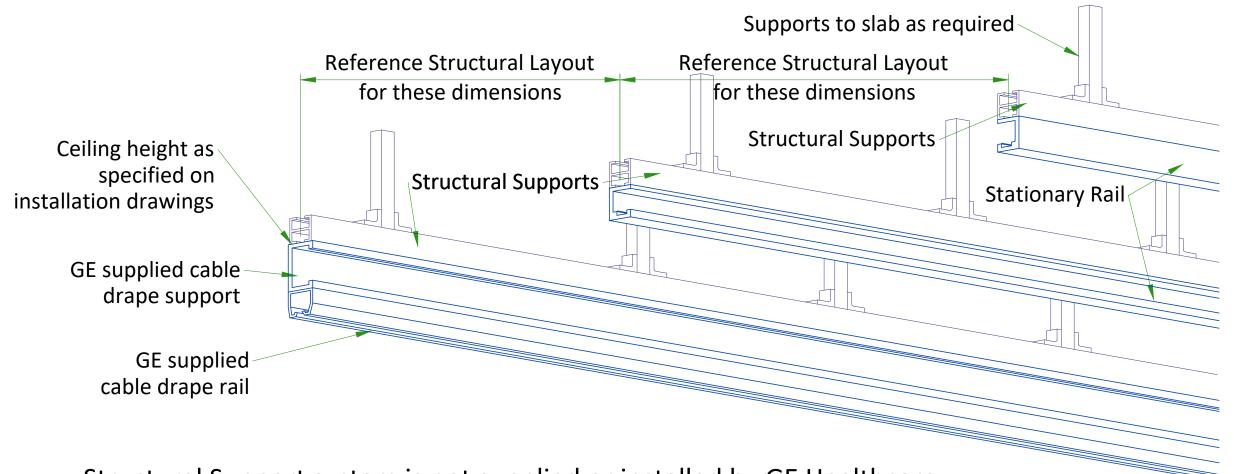


SCALE 1:50

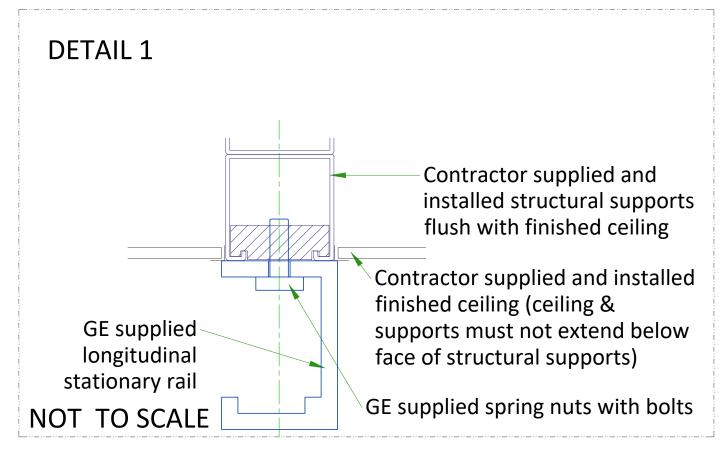
Note: Focal Spot Travel depends on the length of the bridge, rails and position of bridge.

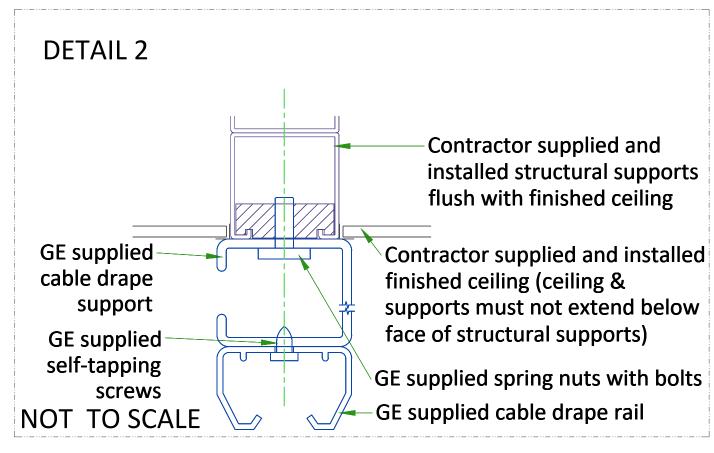
Typical | DISCOVERY XR 656 PLUS (G2) | EN-RAD-TYP-XR 656 PLUS (G2)-NF.DWG | Rev B|Date 26/Feb/2025 | S3 - Structural Details (1) | 09/16

XT RADIOGRAPHIC SUSPENSION, INBOARD MOUNTING



Structural Support system is not supplied or installed by GE Healthcare





TEMPERATURE AND HUMIDITY SPECIFICATIONS

IN-USE CONDITIONS

	EXAM ROOM		CONTROL ROOM		
Temperature	Min	Max	Min	Max	
Temperature	15°C [59°F]	35°C [95°F]	15°C [59°F]	35°C [95°F]	
Temperature gradient	< 10°C/h	[< 50°F/h]	< 10°C/h [< 50°F/h]		
Relative humidity (1)	30% t	o 60%	30% to 60%		
Humidity gradient	< 30	%/h	< 30%/h		

STORAGE CONDITIONS

Temperature	-5°C [23°F] to +50°C [122°F]
Temperature gradient	< 20°C/h [< 68°F/h]
Relative humidity (1)	10% to 85%
Humidity gradient	< 30%/h

Storage longer than 90 days is not recommended.

(1) Non-condensing

AIR RENEWAL

According to local standards.

NOTE

In case of using air conditioning systems that have a risk of water leakage it is recommended not to install it above electric equipment or to take measures to protect the equipment from dropping water.

HEAT DISSIPATION DETAILS

ROOM	DESCRIPTION	HEAT DIS	SIPATION W)	HEAT DISSIPATION (BTU/hr)		
		STANDBY	IN-USE	STANDBY	IN-USE	
	Table	0.092	0.666	315	2272	
	Table Detector power	0.017	0.017	56	56	
	Wall Stand (Standard/Extended)	0.023	0.094	79	321	
	WS Detector power	0.017	0.017	56	56	
Exam Room	System Cabinet	0.714	1.427	2437	4869	
	OTS & Collimator	0.147	0.440	500	1500	
	Tube Rotor	0	0.160	0	544	
	TIB	0.002	0.020	6.75	68	
	TOTAL	1.012	2.841	3449.8	9686.0	
	PC and Monitor	0.176	0.253	601	863	
Control Room	UPS	0.009	0.013	31.61	45.45	
	TOTAL	0.185	0.266	632.6	908.5	

CONNECTIVITY REQUIREMENTS

Your new GE Healthcare imaging modality will require local and remote connectivity to enable our full range of digital support:

- Local connectivity This allows your system to connect to local devices such as PACS and modality worklist. We will require network information to configure the system(s), and a live ethernet port(s) prior to the delivery of the system(s).
- Remote connectivity Your GE Healthcare service warranty includes InSite™ (applicable to InSite capable products), a powerful broadband-based service which enables digital tools that can help guard your hospital against equipment downtime and revenue loss by quickly connecting you to a GE Healthcare expert.

Depending on product family and software version, imaging systems can be connected in one of the following

- 1. TLS over TCP Port 443 (Preferred method for new products) via:
 - a. DNS resolution
 - b. Customer-provided Proxy or
 - c. GE Proxy (Available in some regions)
- 2. Site-to-Site IPsec VPN tunnel

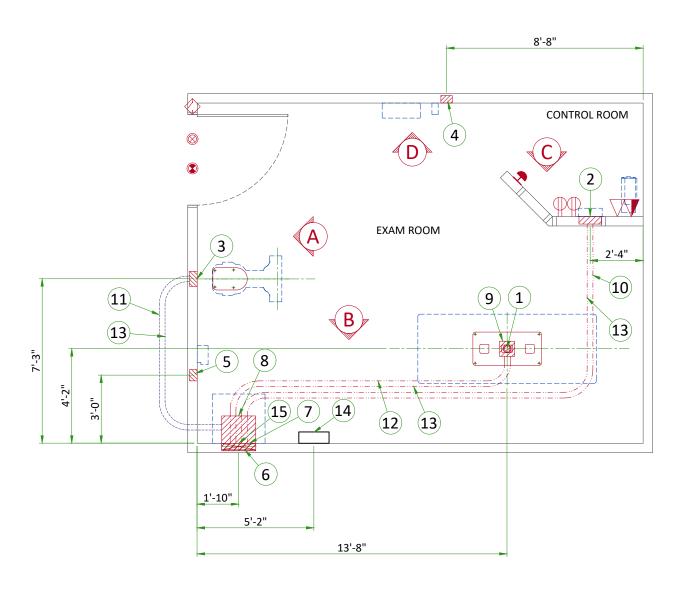
Please provide the GE project manager with the contact information for the resource that can provide information required to set up these connections. GEHC will send out communication to these contacts, which will include the project's Connectivity requirements, and a Connectivity form. This form will need to be completed and returned to GEHC prior to delivery of the system to ensure the system is tested and connectivity is enabled prior to the completion of the installation.

ELECTRICAL NOTES

- Aluminum or solid wires are not allowed.
- Wire sizes given are for use of equipment. Larger sizes may be required by local codes.
- It is recommended that all wires be color coded, as required in accordance with national and local electrical codes.
- Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national
- 5. Convenience outlets are not illustrated. Their number and location are to be specified by others. Locate at least one convenience outlet close to the system control, the power distribution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.
- 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.
- Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
- Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical
- In some cases GEHC will specify ground wires to be sized larger than code. In these situations, the GEHC specification must be followed.
- 10. 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.
- 11. The maximum point to point distances illustrated on this drawing must not be exceeded.
- 12. Physical connection of primary power to GEHC equipment is to be made by customers electrical contractor with the supervision of a GEHC representative. The GEHC representative would be required to identify the physical connection location, and insure proper handling of GEHC equipment.
- 13. GEHC conducts power audits to verify quality of power being delivered to the system. The customer's electrical contractor is required to be available to support this activity.
- 14. Every installation is unique. The electrical contractor will be required to support the installation of the GEHC equipment by providing knockouts, grommeted openings, bushings, etc. as required. All power connections to be performed by the electrician.

- All junction boxes, conduit, duct, duct dividers, switches, circuit breakers, cable tray, etc., are to be supplied and installed by customers electrical contractor. All junction boxes shall be provided with covers.
- Conduit and duct runs shall have gradual 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
- 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.
 - PVC as a substitute must be used in accordance with all local and national codes.
- All openings in raceway and access flooring are to be cut out and finished off with grommet material by the customers
- Electrical contractor to provide measured pull strings in all conduit and raceway runs.
- Provide 10 foot pigtails at all junction points.
- Grounding is critical to equipment function and patient safety. Site must conform to wiring specifications shown on this plan.

12/16



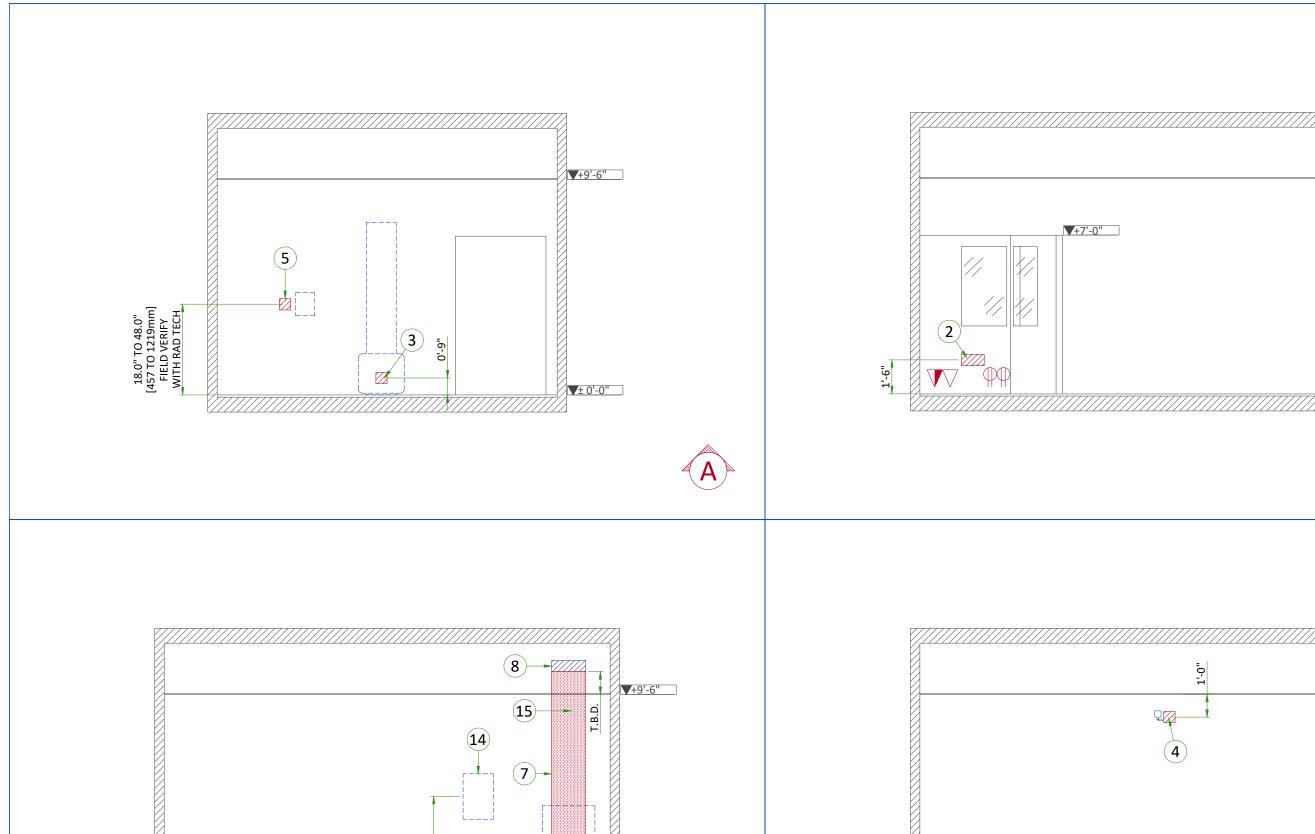
Item	Electrical Layout Item List
1	Suitable bushings & locknuts
2	Flush 12"x6"x4" box for Control
3	Flush J-box for Chest Unit - size per local code
4	Flush J-box for Dongle - size per local code
5	Flush J-box for TIB - size per local code
6	Flush J-box for Generator - size per local code
7	18" x 3 1/2" [450mm x 100mm] Flush vertical wall duct with minimum 2 dividers
8	Box above ceiling size per local code
9	Box below floor size per local code
10	One 1" cnd
11	One 1 1/2" cnd
12	One 2" cnd
13	One 2 1/2" cnd
14	Main Disconnect Panel (MDP)
15	Grommeted opening (OTS)

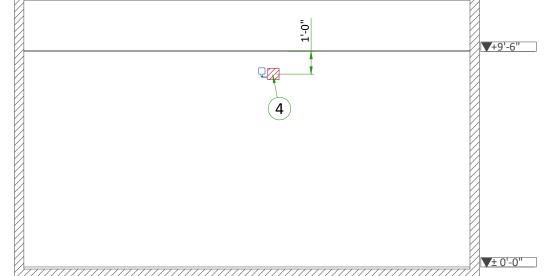
ITEM	Electrical Outlet Legend Customer/contractor supplied and installed items unless otherwise specified. Height above floor determined by local codes unless otherwise specified.
1	System emergency off (SEO), (recommended height 1.2m [48"] above floor)
\otimes	X-Ray room warning light control panel
	X-Ray ON lamp (L1) - 24V
\Diamond	Door interlock switch (needed only if required by state/local codes)
φ	Duplex hospital grade, dedicated wall outlet 120-v, single phase power
Δ	Dedicated telephone line(s)
	Network outlet

Additional Conduit Runs (Contractor Supplied and Installed)

Rev Date: 02.Jun.21

		From		То		Size		
(Bubble # / Item)			(Bubble # / Item)	Qty	In.	mm		
		3 Phase Power	14	Main Disconnect	1	As req'd	As req'd	
1	1.4	.4 Main Disconnect		Emergency Off	1	1/2	13	
	14		8	Systems Cabinet	1	As req'd	As req'd	
		Warning Light		Warning Light Control	1	1/2	13	
		1 Phase Power			1	As req'd	As req'd	
		8 Systems Cabinet			1	1/2	13	
8	,			Door Switch	1	1/2	16	
	٥		5	TIB	1	2	53	
			4	Dongle	1	1	27	
	_	2 Operators Console	5	TIB	1	1	27	
	2		4	Dongle	1	2	53	
	. D I D	-+- 2C/E-1-/202E		EQ. Electrical Laure			1 12/10	







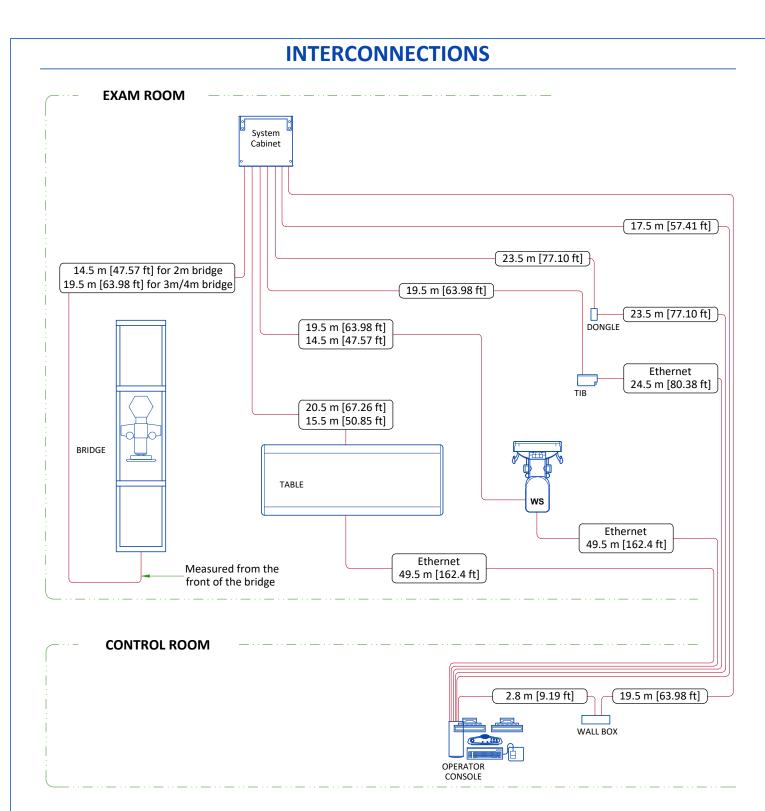


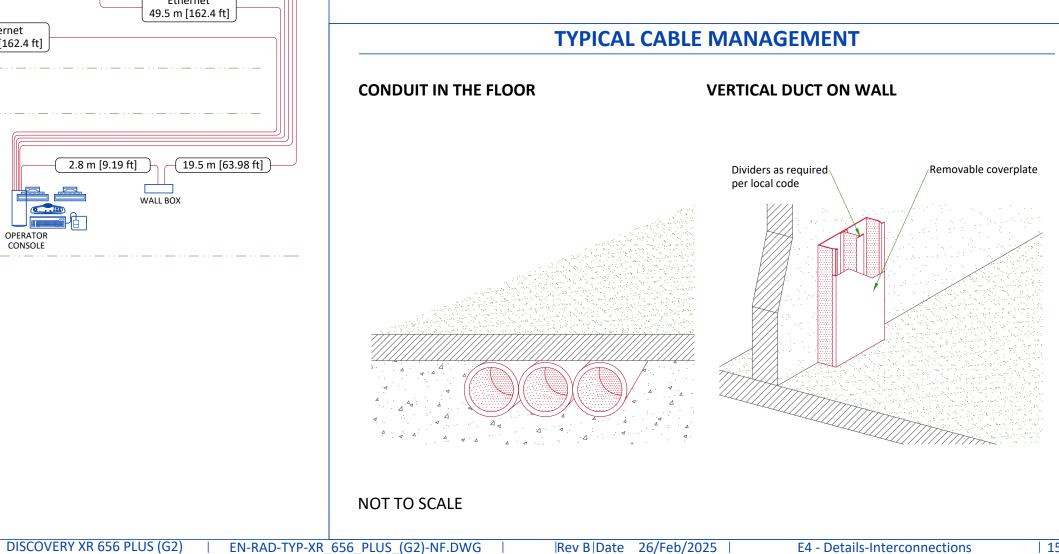
± 0'-0"

(6)

V+9'-6"

± 0'-0"





- Long usable length - Standard usable length

POWER REQUIREMENTS

POWER SUPPLY	380/400/415/440/460/480V ±10%, THREE-PHASE + G
FREQUENCIES	50/60Hz ± 3Hz
POWER DEMAND	125kVA
MAXIMUM LINE RESISTANCE PER 2 PHASES (Ohm)	380V: 0.096/ 400V: 0.100 / 415V: 0.113 440V: 0.125 / 480V: 0.150

- Power supply should come into a main disconnect panel (MDP) containing the protective units and controls.
- The section of the supply cable should be calculated in accordance with its length and the maximum permissible voltage drops.
- There must be discrimination between supply cable protective material at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.

SUPPLY CHARACTERISTICS

- Power input must be separated from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...)
- All equipment (lighting, power outlets, etc...) installed with GE system components must be powered separately.

GROUND SYSTEM

Equipotential: the equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non GE cableways and to additional equipotential connections linking up all the conducting units in the rooms where GE units are located.

CABLES

- Power and cable installation must comply with the distribution diagram below.
- All cables must be isolated and flexible.
- Cable color codes must comply with standards for electrical installation.

Case MDP furnished by GE: The cables for signals and remote control (SEO, XRL1...) will go to MDP with a pigtail length of 1.5 m (4.9 ft), and will be connected during installation. Each conductor will be identified and isolated (screw connector).

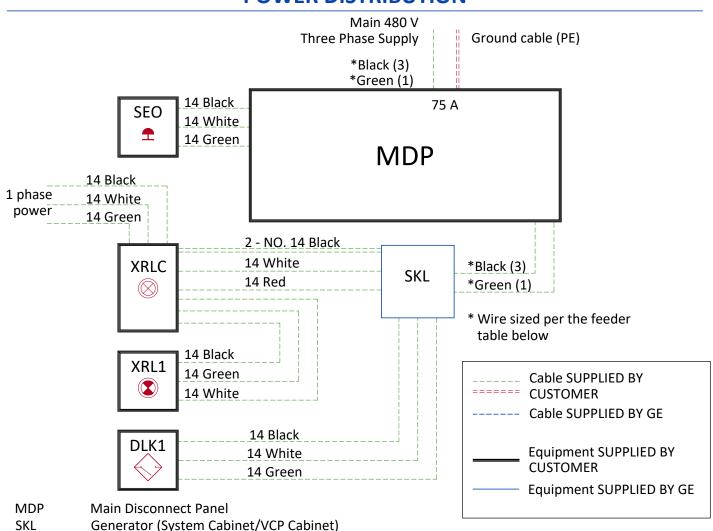
CABLEWAYS

The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:

- Protecting cables against water (cableways should be waterproof)
- Protecting cables against abnormal temperatures (proximity to heating pipes or ducts)
- Protecting cables against temperature shocks
- Replacing cables (cableways should be large enough for cables to be replaced) metal cableways should be grounded.

		FEE	DER TAE	BLE					
MIN. FEEDER WIRE SIZE, AWG OR MCM (sq. mm)/VAC	MINIMUM FEEDER WIRE LENGTH - ft (m)								
	50 (15)	100 (30)	150 (46)	200 (61)	250 (76)	300 (91)	350 (107)	400 (122)	450 (137)
480 VAC	2 (34)	2 (34)	2 (34)	1 (45)	1/0 (54)	2/0 (68)	3/0 (85)	3/0 (85)	4/0 (107)
GENERAL NOTES									
In all cases qualified personnel must verif	y that the fe	•	e point of tal	•	the run to	the GE sys	tem meet a	all the requi	rements
For a single unit installation,	the minimu	ım transforı	mer size is 1	50 kVA, Sy	nthesized p	ower feed	is not acce	ptable	
Grounding conductor will be of the san ground			his ground v				to the po	wer source,	/main

POWER DISTRIBUTION



Generator (System Cabinet/VCP Cabinet)

SEO Emergency OFF button (Control Room), located 1.50m (4.9') above floor

XRLC Warning Light Control

XRL1 Warning Light

DLK1 Door Interlock Switch (needed only if required by state/local codes)