



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                               | <div>Typical</div> <div>----</div> <div>----</div> |                                                                                                                                                                       |  |             |  |                                         |  |           |  |             |  |       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|--|-----------------------------------------|--|-----------|--|-------------|--|-------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                               |                                                    |                                                                                                                                                                       |  |             |  |                                         |  |           |  |             |  |       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                               |                                                    |                                                                                                                                                                       |  |             |  |                                         |  |           |  |             |  |       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                               |                                                    |                                                                                                                                                                       |  |             |  |                                         |  |           |  |             |  |       |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                               |                                                    |                                                                                                                                                                       |  |             |  |                                         |  |           |  |             |  |       |  |
| REV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DATE | MODIFICATIONS                                                                                                                                 |                                                    | <div><div>GE HealthCare</div><div>----</div><div>----</div><div>----</div></div> |  |             |  |                                         |  |           |  |             |  |       |  |
| 01 - C1 - Cover Sheet<br>02 - C2 - Disclaimer - Site Readiness Checklist<br>03 - A1 - General Notes<br>04 - A2 - Equipment Layout<br>05 - A3 - Radiation Protection<br>06 - A4 - Radiation Protection Details<br>07 - A5 - Equipment Dimensions (1)<br>08 - A6 - Equipment Dimensions (2)<br>09 - A7 - Delivery<br>10 - S1 - Structural Notes<br>11 - S2 - Structural Layout<br>12 - S3 - Structural Details (1)<br>13 - S4 - Structural Details (2)<br>14 - M1 - HVAC<br>15 - E1 - Electrical Notes                                                |      | 16 - E2 - Electrical Layout<br>17 - E3 - Electrical Elevations<br>18 - E4 - Power Requirements<br>19 - E5 - Electrical Details - Interconnect |                                                    |                                                                                                                                                                       |  |             |  |                                         |  |           |  |             |  |       |  |
| 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.<br>Pre Installation documents for GE HealthCare products can be accessed on the web at: <a href="https://www.gehealthcare.com/support/manuals">https://www.gehealthcare.com/support/manuals</a>                                                                                                                          |      |                                                                                                                                               |                                                    | Drawn by                                                                                                                                                              |  | Verified by |  | Concession                              |  | GON/Quote |  | PIM Manual  |  | Rev   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                               |                                                    | RET                                                                                                                                                                   |  | CMM         |  | -                                       |  | -         |  | 5809942-1EN |  | 8     |  |
| GE HealthCare 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 drawings. GE HealthCare cannot accept responsibility for any damage due to the partial use of GE HealthCare final issue drawings, however caused. All dimensions are in millimeters unless otherwise specified. Do not scale from printed pdf files. GE HealthCare accepts no responsibility or liability for defective work due to scaling from these drawings. |      |                                                                                                                                               |                                                    | Format                                                                                                                                                                |  | Scale       |  | File Name                               |  |           |  | Date        |  | Sheet |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                               |                                                    | A3                                                                                                                                                                    |  | 1/4"=1'-0"  |  | EN-CT-TYP-REVOLUTION-MAXIMA_2000-NF.DWG |  |           |  | 02/Dec/2024 |  | 01/17 |  |

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 <a href="https://www.gehealthcare.com/support/manuals">https://www.gehealthcare.com/support/manuals</a> |                     |

- 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 at <a href="https://www.gehealthcare.com/support/manuals">https://www.gehealthcare.com/support/manuals</a> |                  |

- Any deviation from these drawings must be communicated in writing to and reviewed by your local GE HealthCare installation project manager prior to making changes.
- Make arrangements for any rigging, special handling, or facility modifications that must be made to deliver the equipment to the installation site. If desired, your local GE HealthCare installation project manager can supply a reference list of rigging contractors.
- New construction requires the following;
  1. Secure area for equipment,
  2. Power for drills and other test equipment,
  3. 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.

ENVIRONMENT

ALTITUDE

- The system shall meet all functional and performance specifications when placed in a room that is at an elevation of -150 m to 2,400 m [-492 ft to 7,875 ft] above sea level. For different altitudes refer to the PIM.

MAGNETIC FIELD SPECIFICATIONS

- Limit the magnetic interference to guarantee specified imaging performance.

GANTRY:

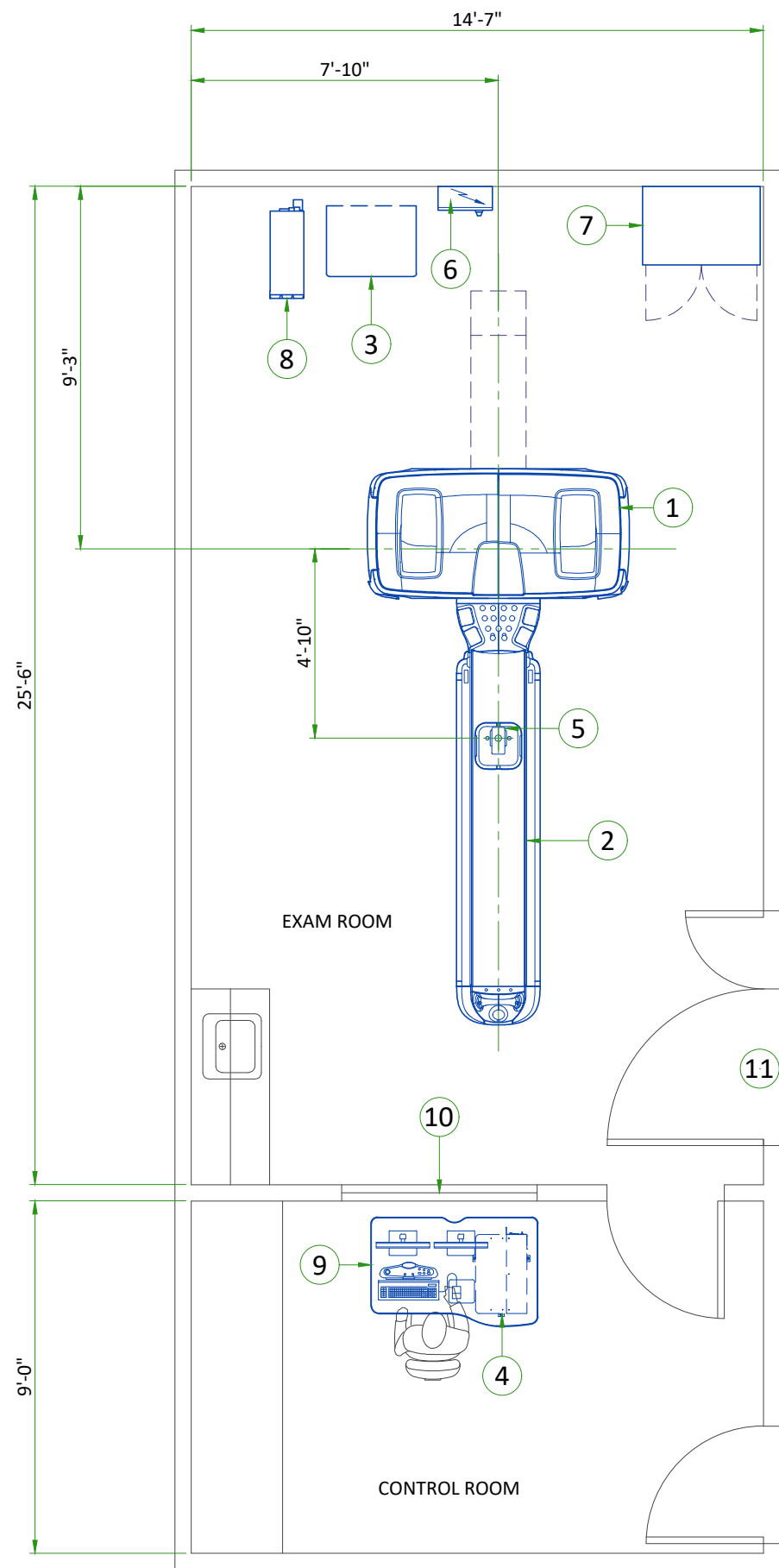
- Ambient static magnetic fields less than 1 Gauss.
- Ambient AC magnetic fields less than 0.01 Gauss peak.

OPERATOR CONSOLE:

- Ambient static magnetic fields less than 10 Gauss.

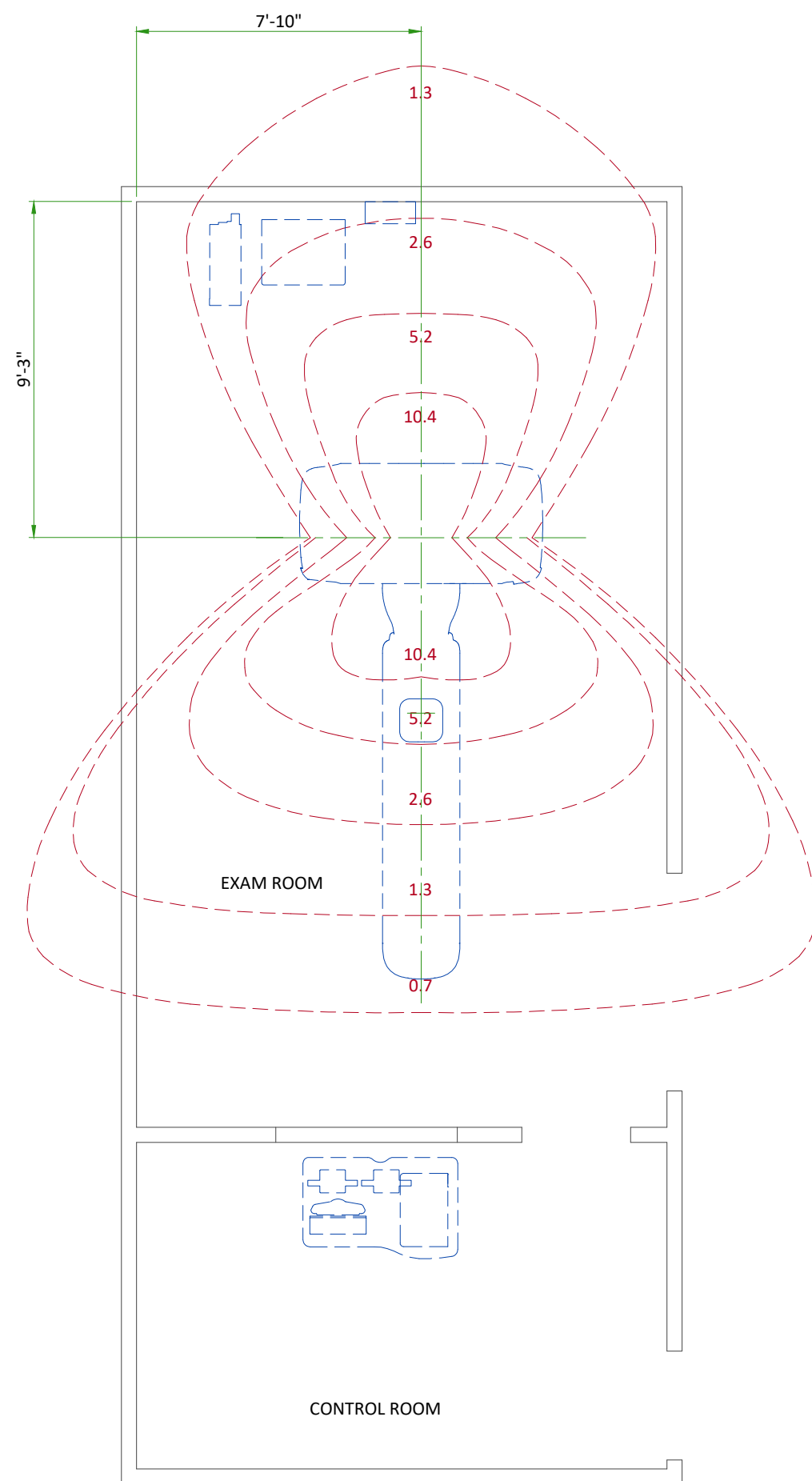
SYSTEM COMPONENT NOISE LEVEL

- **Maximum Gantry Audible Noise Level:** The maximum ambient noise level is produced by the gantry during a CT scan acquisition. It is less than 70 dBA when measured at a distance of 1 m [3.3 ft] from the nearest gantry surface, in any direction.
- **Maximum Console Audible Noise Level:** The maximum ambient noise levels is less than or equal to 54 dBA when measured 1 m [3.3 ft] up and 1 m [3.3 ft] away from the console at an ambient temperature of 26°C [79°F].



| LEGEND |                                            |                                                                                                                             |                         |              |                                          |             |
|--------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------|------------------------------------------|-------------|
| A      | GE SUPPLIED                                |                                                                                                                             |                         | D            | AVAILABLE FROM GE                        |             |
| B      | GE SUPPLIED/CONTRACTOR INSTALLED           |                                                                                                                             |                         | E            | EQUIPMENT EXISTING IN ROOM               |             |
| C      | CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED |                                                                                                                             |                         | *            | ITEM TO BE REINSTALLED FROM ANOTHER SITE |             |
| BY     | ITEM                                       | DESCRIPTION                                                                                                                 | MAX HEAT OUTPUT (BTU/h) | WEIGHT (lbs) | MAX HEAT OUTPUT (W)                      | WEIGHT (kg) |
| A      | 1                                          | GANTRY                                                                                                                      | 18698                   | 3435         | 5480                                     | 1558        |
| A      | 2                                          | GT2000 TABLE                                                                                                                | 1024                    | 1114         | 300                                      | 505         |
| A      | 3                                          | POWER DISTRIBUTION UNIT (PDU)                                                                                               | 3412                    | 816          | 1000                                     | 370         |
| A      | 4                                          | OPEN CONSOLE                                                                                                                | 3207                    | 139          | 940                                      | 63.1        |
| A      | 5                                          | AUTO PATIENT POSITIONING DEPTH CAMERA                                                                                       | -                       | 7            | -                                        | 3.2         |
| B      | 6                                          | MAIN DISCONNECT PANEL (MDP)                                                                                                 | -                       | 46           | -                                        | 21          |
| A      | 7                                          | STORAGE CABINET                                                                                                             | -                       | 90           | -                                        | 41          |
| A      | 8                                          | PARTIAL UPS                                                                                                                 | 2832                    | 265          | 830                                      | 120         |
| A      | 9                                          | AURORA SWS TABLE                                                                                                            | -                       | 88           | -                                        | 40          |
| C      | 10                                         | LEAD GLASS WINDOW                                                                                                           |                         |              |                                          |             |
| C      | 11                                         | MINIMUM OPENING FOR EQUIPMENT DELIVERY IS 1118 mm x 2108 mm [44 in x 83 in], CONTINGENT ON A 2438 mm [96 in] CORRIDOR WIDTH |                         |              |                                          |             |

| EXAM ROOM HEIGHT              |       |
|-------------------------------|-------|
| FINISHED FLOOR TO SLAB HEIGHT | TBD   |
| FALSE CEILING HEIGHT          | 8'-0" |



RADIATION PROTECTION LAYOUT

| SHIELDING REQUIREMENTS SCALING |                                     |
|--------------------------------|-------------------------------------|
| CHANGED PARAMETER (mAs)        | MULTIPLICATION FACTOR (new mAs/100) |
| 80 kV                          | 0.24                                |
| 100 kV                         | 0.45                                |
| 120 kV                         | 0.71                                |
| 140 kV                         | 1.00                                |
| 1 mm aperture                  | 0.20                                |
| 3 mm aperture                  | 0.22                                |
| 5 mm aperture                  | 0.27                                |
| 10 mm aperture                 | 0.38                                |
| 15 mm aperture                 | 0.48                                |
| 20 mm aperture                 | 0.59                                |
| 30 mm aperture                 | 0.79                                |
| 40 mm aperture                 | 1.00                                |

SHIELDING REQUIREMENTS:

- Engage a qualified radiological health physicist to review your scan room shielding requirements, taking into consideration:
- Scatter radiation levels within the scanning room
  - Equipment placement.
  - Weekly projected work-loads (number of patients/day technique (kvp\*ma))
  - Materials used for construction of walls, floors, ceiling, doors, and windows.
  - Activities in surrounding scan room areas.
  - Equipment in surrounding scan room areas (e.g., film developer, film storage)
  - Room size and equipment placement within the room relative to room size.

The Illustrations on this page depict measured radiation levels within the scanning room, while scanning a 32 cm CTDI phantom with the technique shown:

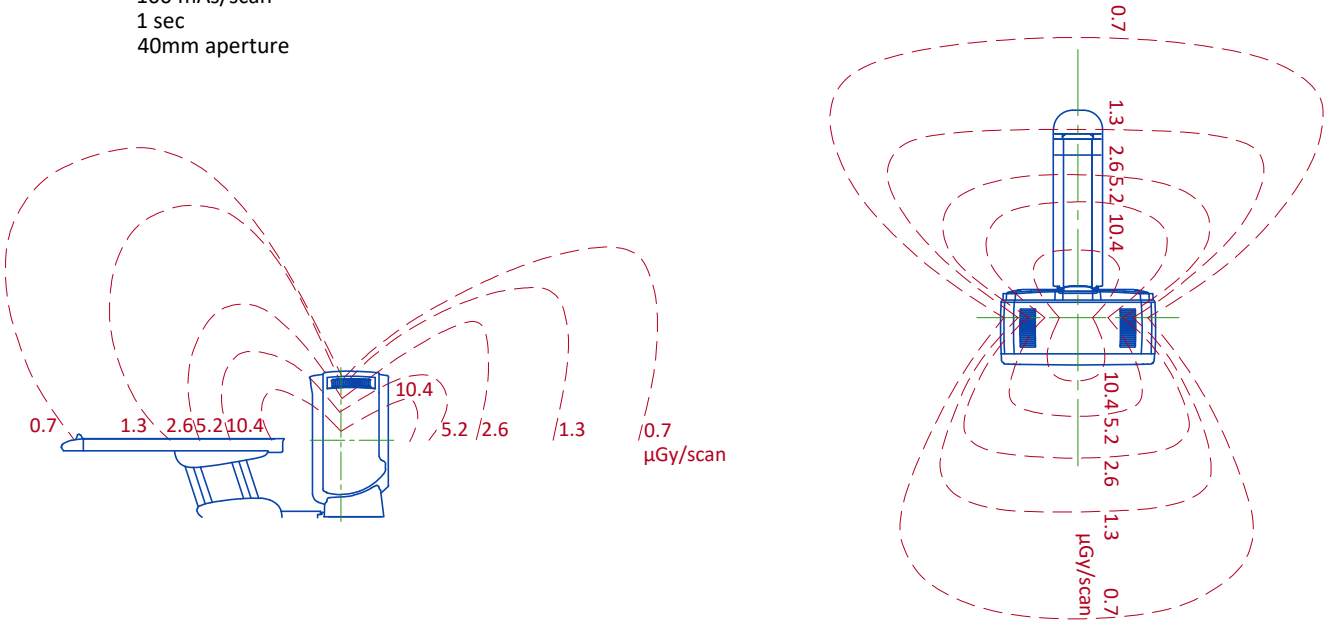
- 140 kV
- 100 mA
- 1 sec
- 40 mm

Use the mAs, kV and aperture scaling factors in the table shown here to adjust exposure levels to the scan technique used at the site.

**NOTE:** Actual measurements can vary. Expected deviations equals ±15%, expect for the 5 mA and 1 mm techniques, where variations may be greater (up to a factor of 2), due to the inherent deviation in small values. The maximum deviation anticipated for tube output equals ±40%.

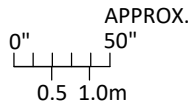
RADIATION SCATTER - HEAD PHANTOM

NOTE: 140 kV  
100 mAs/scan  
1 sec  
40mm aperture



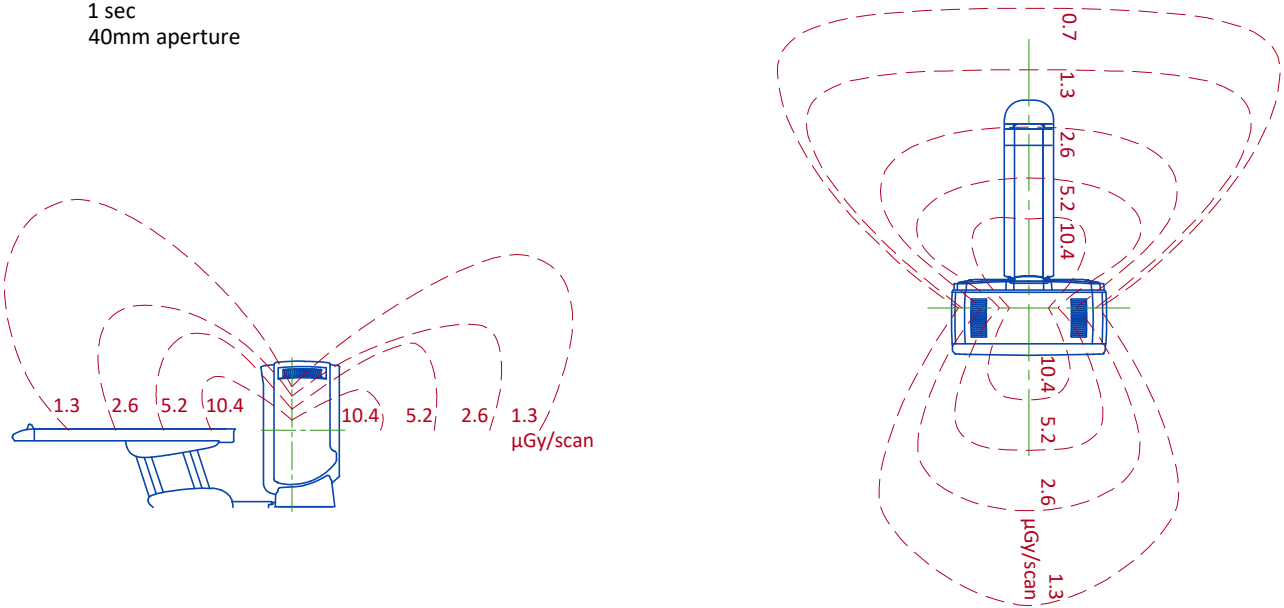
Elevation

Plan View



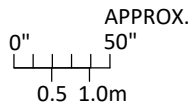
RADIATION SCATTER - BODY PHANTOM

NOTE: 140 kV  
100 mAs/scan  
1 sec  
40mm aperture



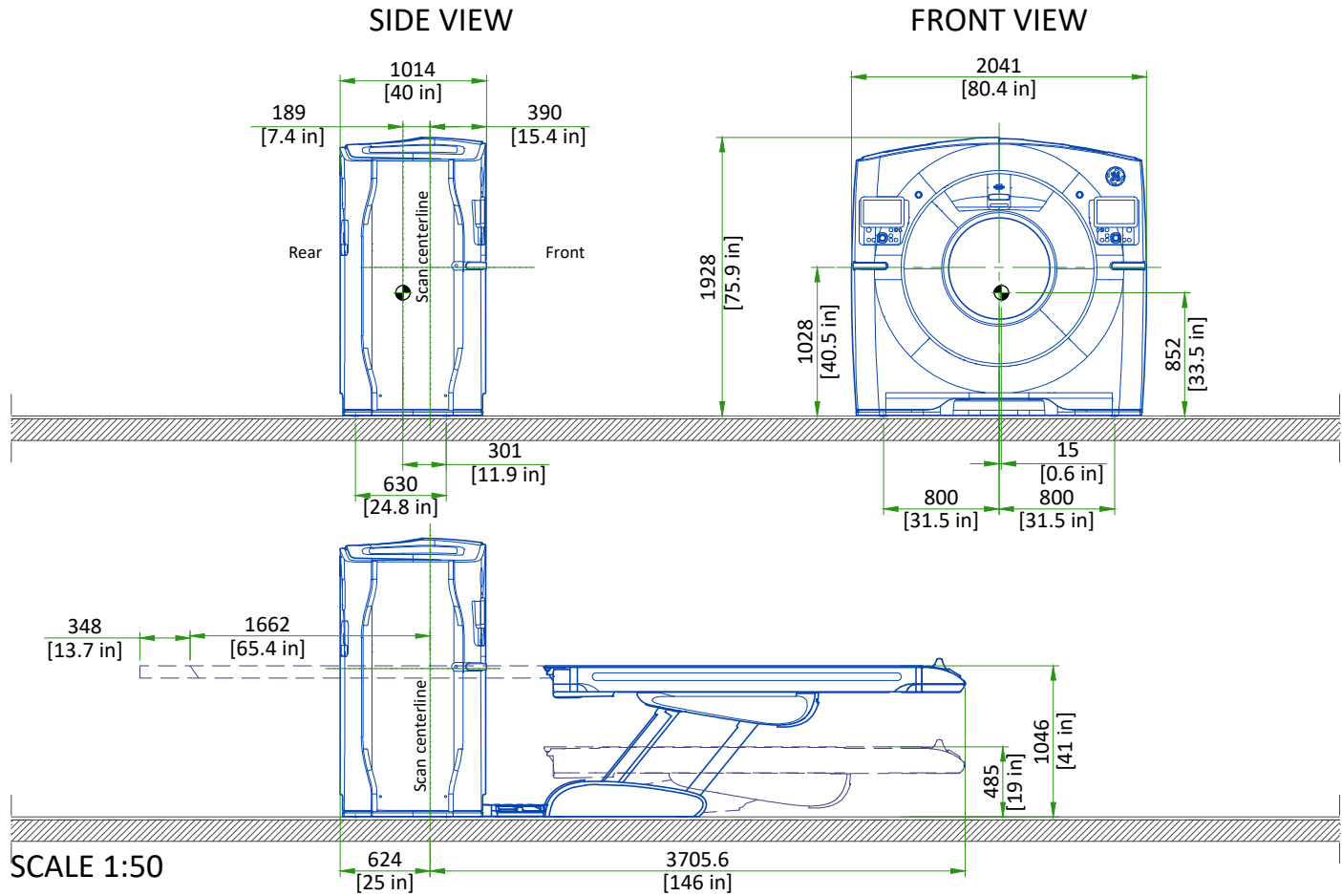
Elevation

Plan View

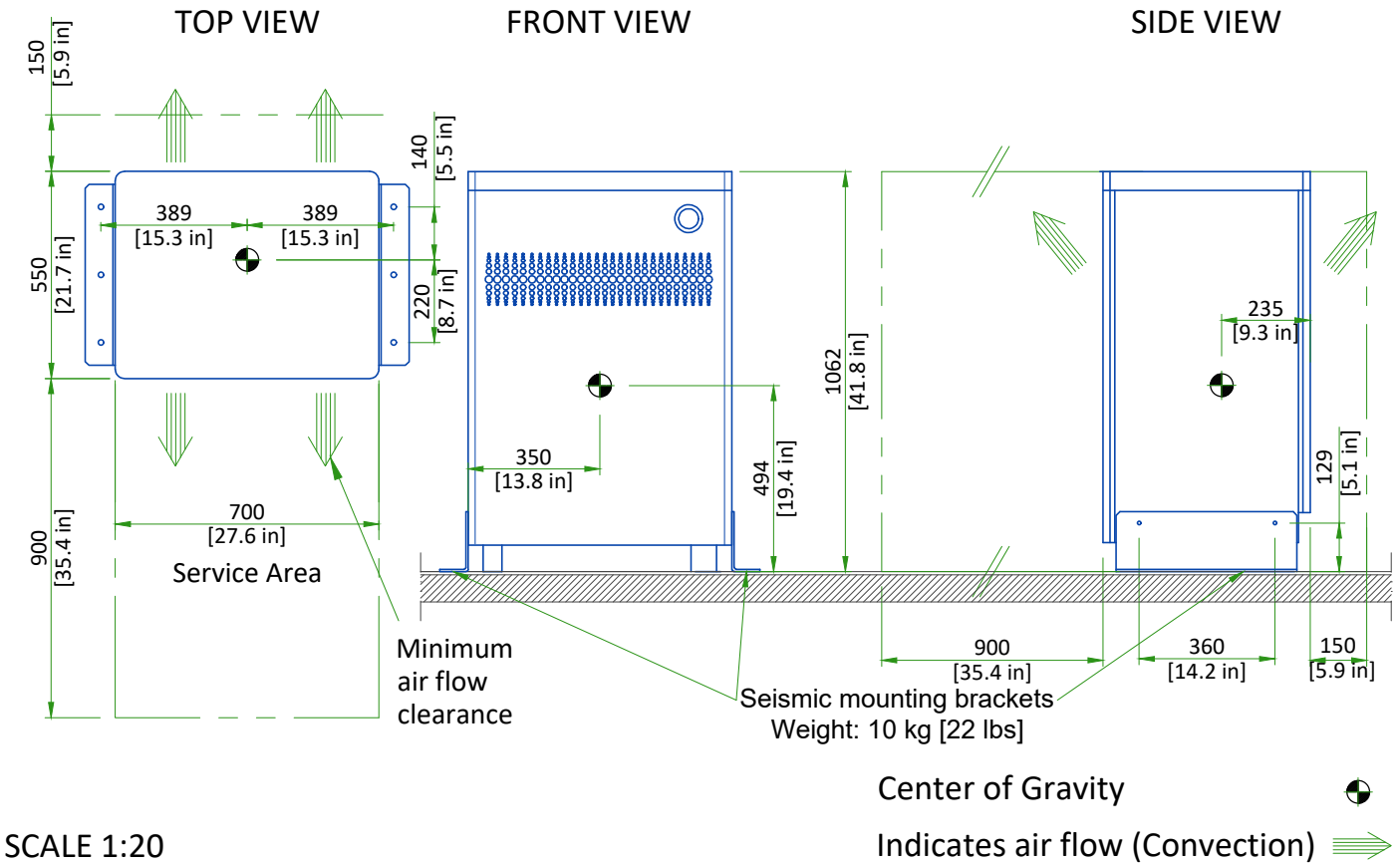




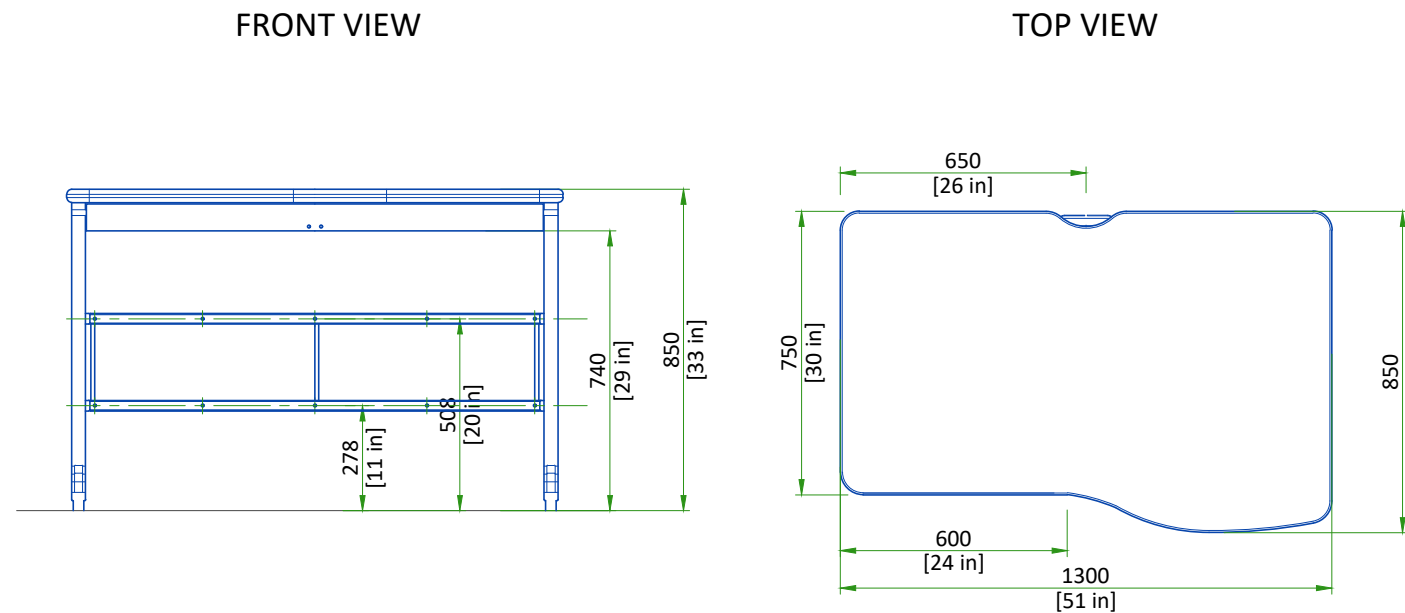
GANTRY WITH GT2000 TABLE



POWER DISTRIBUTION UNIT (PDU)

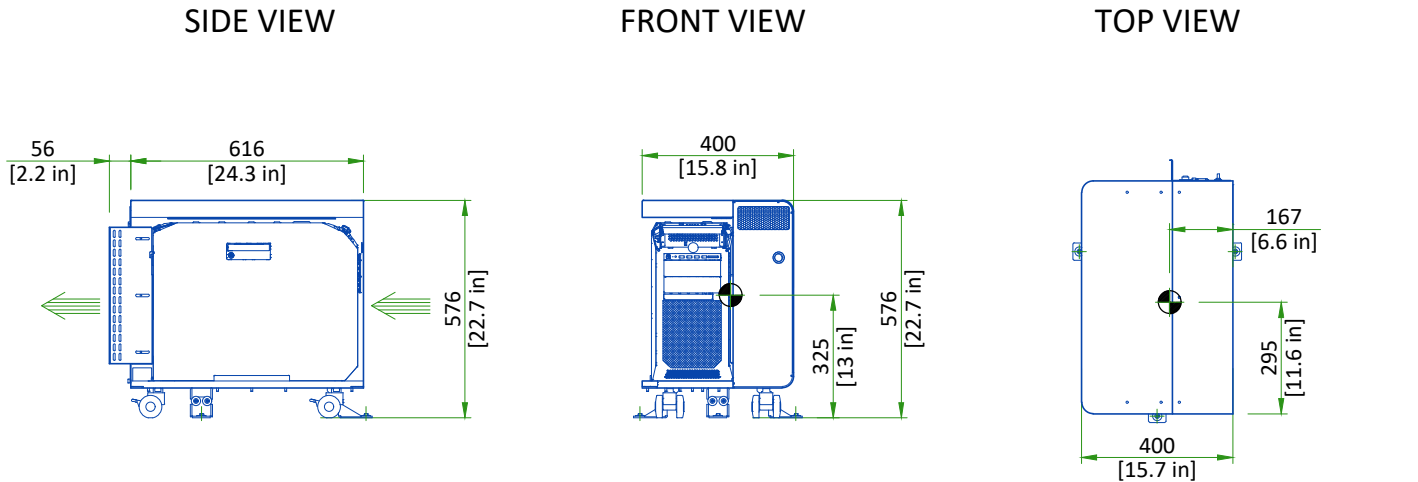


AURORA SWS TABLE



Weight: 40 kg [88 lbs]  
SCALE 1:20

OPEN CONSOLE WITH Z8G5 HOST PC

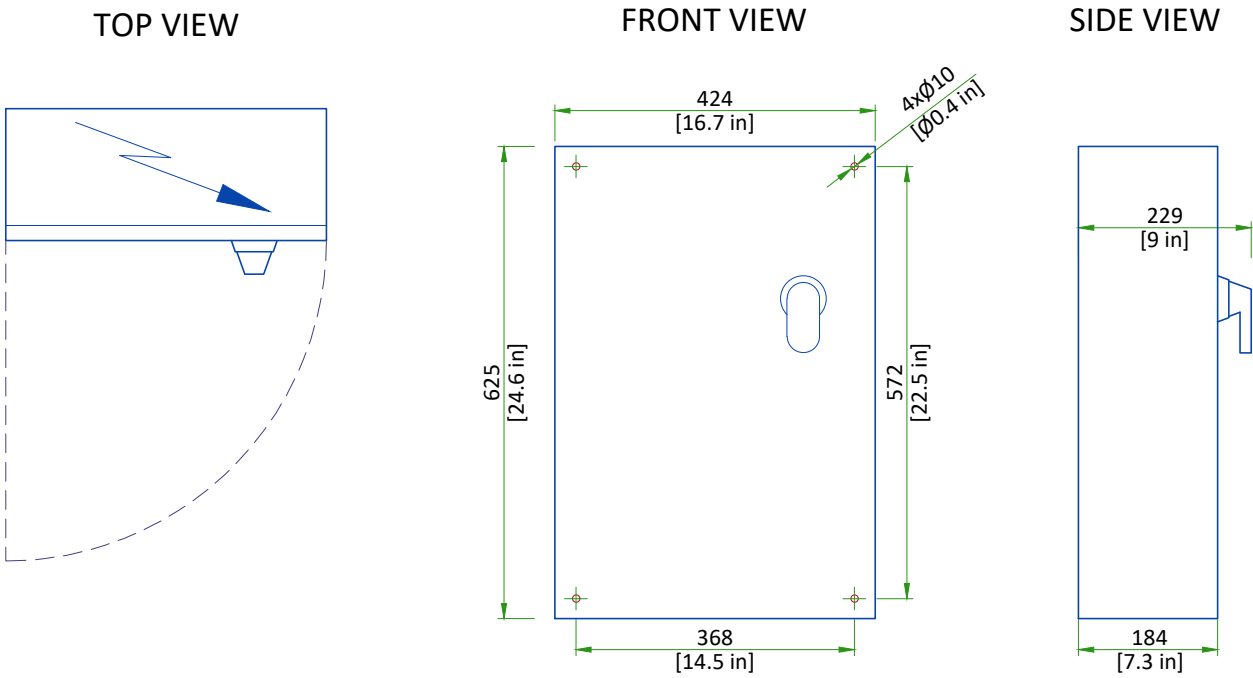


Center of Gravity

Indicates air flow (Convection)

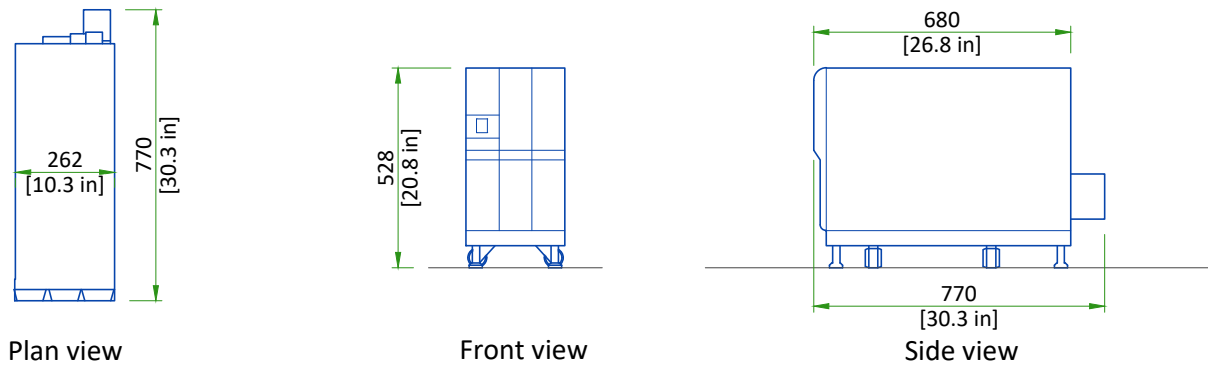
SCALE 1:20

MAIN DISCONNECT PANEL



SCALE 1:10

PARTIAL UNINTERRUPTIBLE POWER SUPPLY



SCALE 1:20



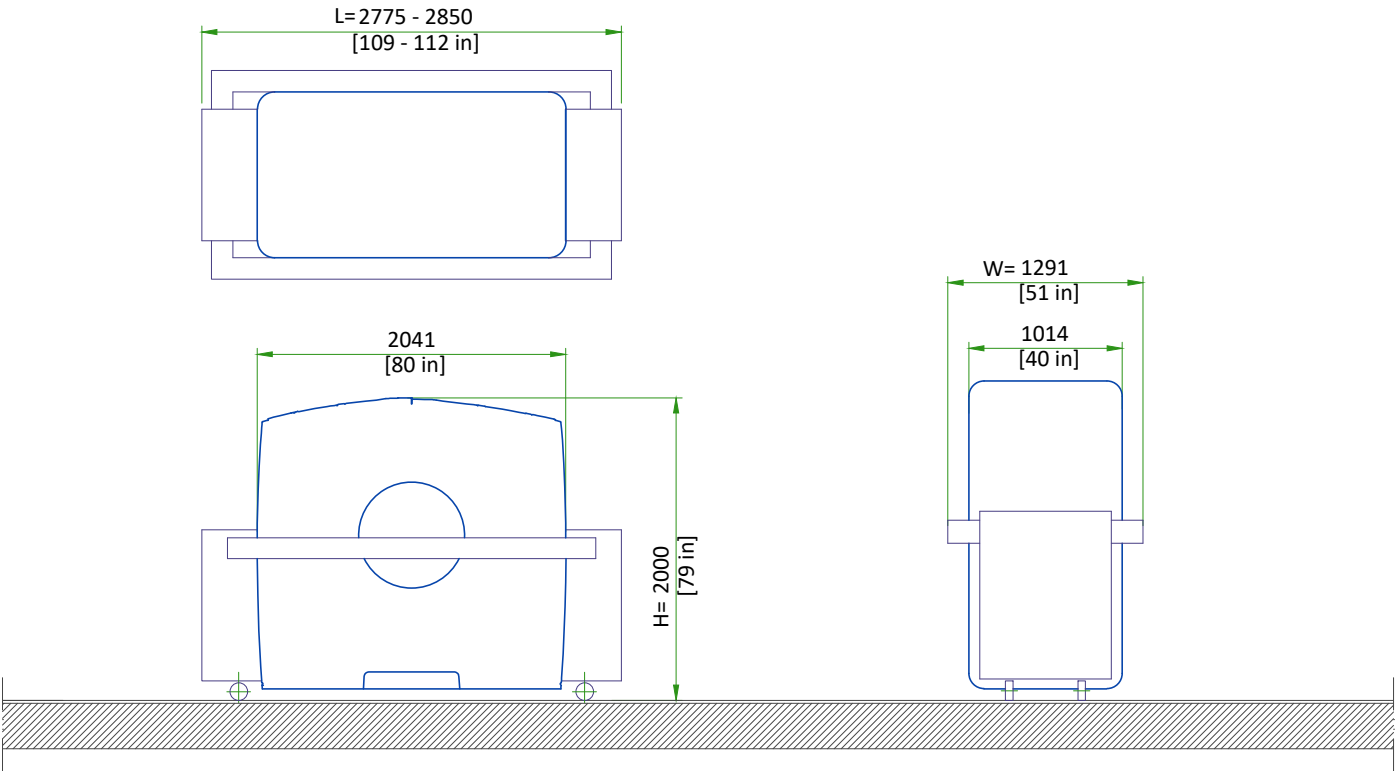
DELIVERY

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.

| DIMENSIONS OF DELIVERY WITH DOLLY TRANSPORT EQUIPMENT |            |         |        |         |          |
|-------------------------------------------------------|------------|---------|--------|---------|----------|
| EQUIPMENT                                             | DIMENSIONS |         |        | WEIGHT  |          |
| GANTRY                                                | LENGTH     | 2775 mm | 109 in | 1835 kg | 4049 lbs |
|                                                       | WIDTH      | 1291 mm | 51 in  |         |          |
|                                                       | HEIGHT     | 2000 mm | 79 in  |         |          |
| GANTRY - lightweight dolly                            | LENGTH     | 2850 mm | 112 in | 1732 kg | 3818 lbs |
|                                                       | WIDTH      | 1291 mm | 51 in  |         |          |
|                                                       | HEIGHT     | 2000 mm | 79 in  |         |          |
| GT2000 TABLE                                          | LENGTH     | 2997 mm | 118 in | 632 kg  | 1392 lbs |
|                                                       | WIDTH      | 762 mm  | 30 in  |         |          |
|                                                       | HEIGHT     | 1143 mm | 45 in  |         |          |

GANTRY DELIVERY

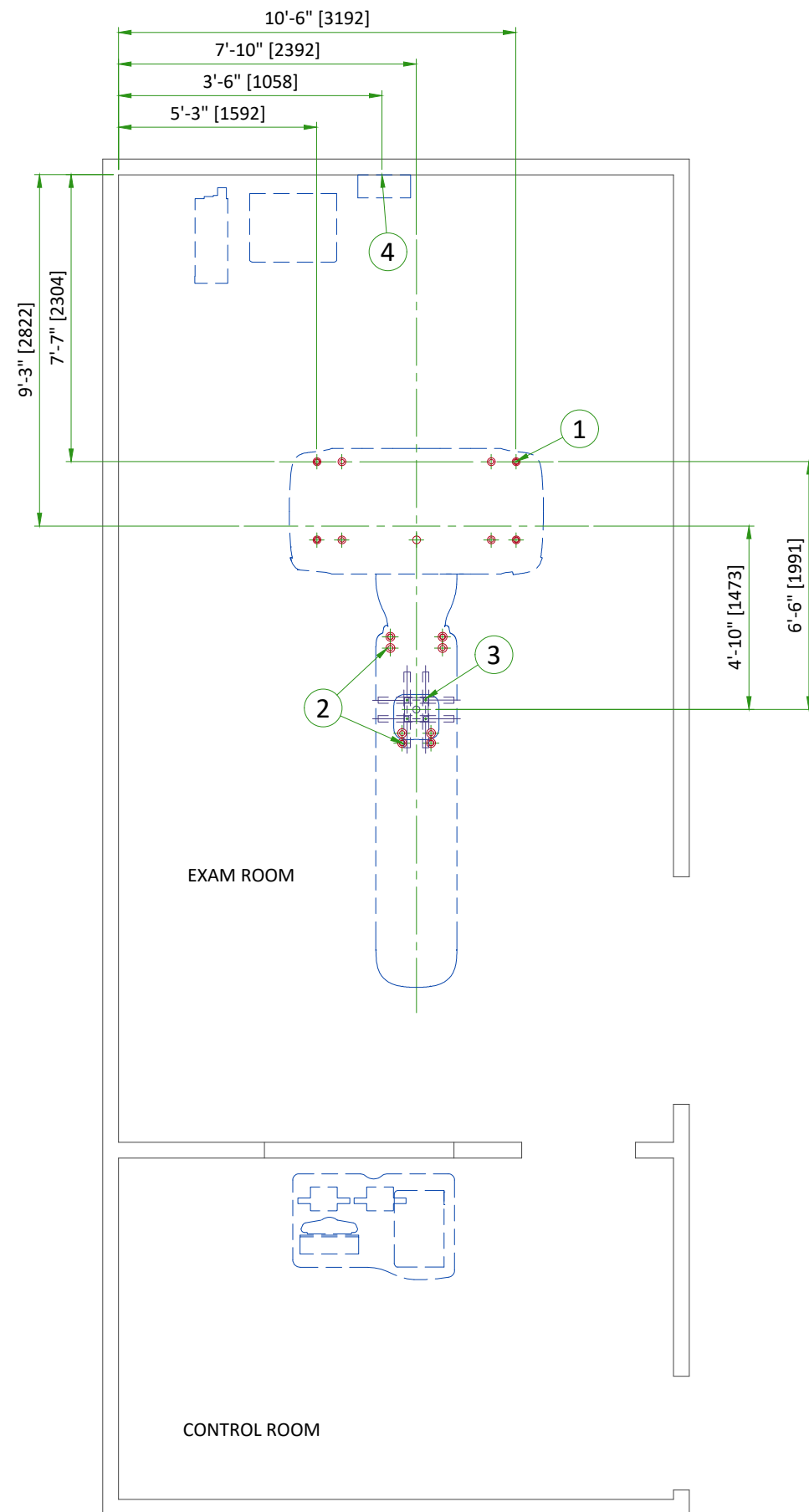


- The gantry is shipped on a dolly equipped with elevating casters (normal shipping configuration).

NOT TO SCALE

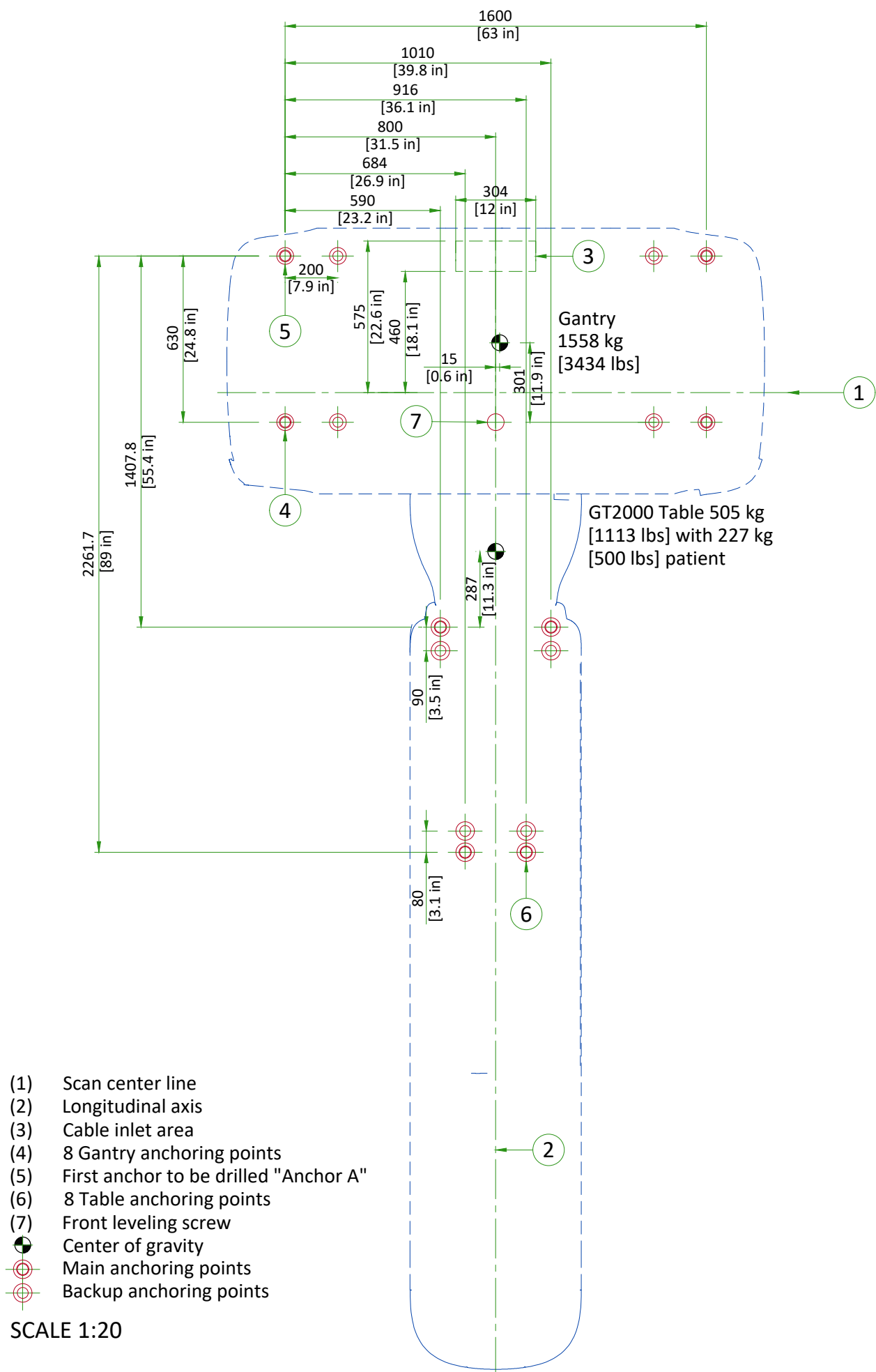
## STRUCTURAL NOTES

- all steel work and parts necessary to support ceiling mounted equipment is to be supplied by the customer or his contractors.
- methods of support for the steelwork that will permit attachment to structural steel or through bolts in concrete construction should be favored. Do not use concrete or masonry anchors in direct tension.
- all units that are wall mounted or wall supported are to be provided with supports where necessary. Wall supports are to be supplied and installed by the customer or his contractors. See plan and detail sheets for suggested locations and mounting hole locations.
- all ceiling mounted fixtures, air vents, sprinklers, etc. To be flush mounted, or shall not extend more than 1/4" below the finished ceiling.
- floor slabs on which equipment is to be installed must be level to 1/4" in 10'-0"
- dimensions are to finished surfaces of room.
- customers contractor must provide all penetrations in post tension floors.
- customers contractor must provide and install any non-standard anchoring. Documents for standard anchoring methods are included with GE equipment drawings for geographic areas that require such documentation.
- customers contractor must provide and install hardware for "through the floor" anchoring and/or any bracing under access floors. This contractor must also provide floor drilling that cannot be completed because of an obstruction encountered while drilling by the GE installer such as rebar etc.
- 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"



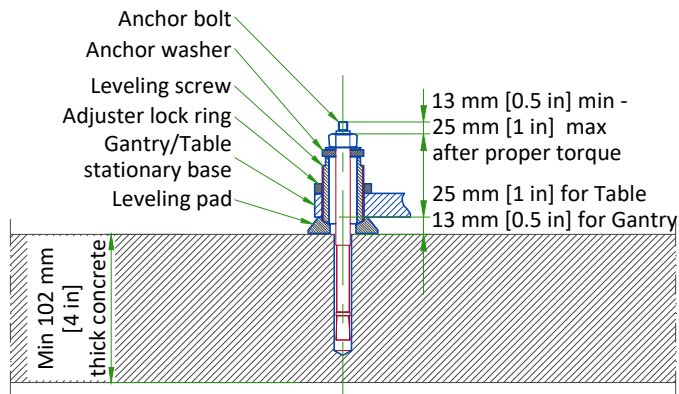
| ITEM                                                                                                                      | DESCRIPTION                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (CONTRACTOR SUPPLIED & INSTALLED)                                                                                         |                                                                                                                                                                                                                                                                      |
| 1                                                                                                                         | Gantry anchor "A". Refer to Anchoring/loading Distribution To The Floor detail on sheet S3.                                                                                                                                                                          |
| 2                                                                                                                         | Table leveling pads. Refer to Anchoring/loading Distribution To The Floor detail on sheet S3.                                                                                                                                                                        |
| 3                                                                                                                         | Unistrut or equivalent for mounting patient positioning camera mounting plate on ceiling. Support designed and supplied by customer. Supports to be at least 2' [610mm] in length and located per dimensions on Positioning Camera Mounting Plate structural detail. |
| 4                                                                                                                         | Support Backing, locate as shown                                                                                                                                                                                                                                     |
| <b>Dimension Precision Note:</b><br>Metric dimensions should be referenced when positioning the CT gantry alignment tool. |                                                                                                                                                                                                                                                                      |

ANCHORING/LOADING DISTRIBUTION TO THE FLOOR



FLOOR REQUIREMENTS

GE SUPPLIED TABLE/GANTRY ANCHORS



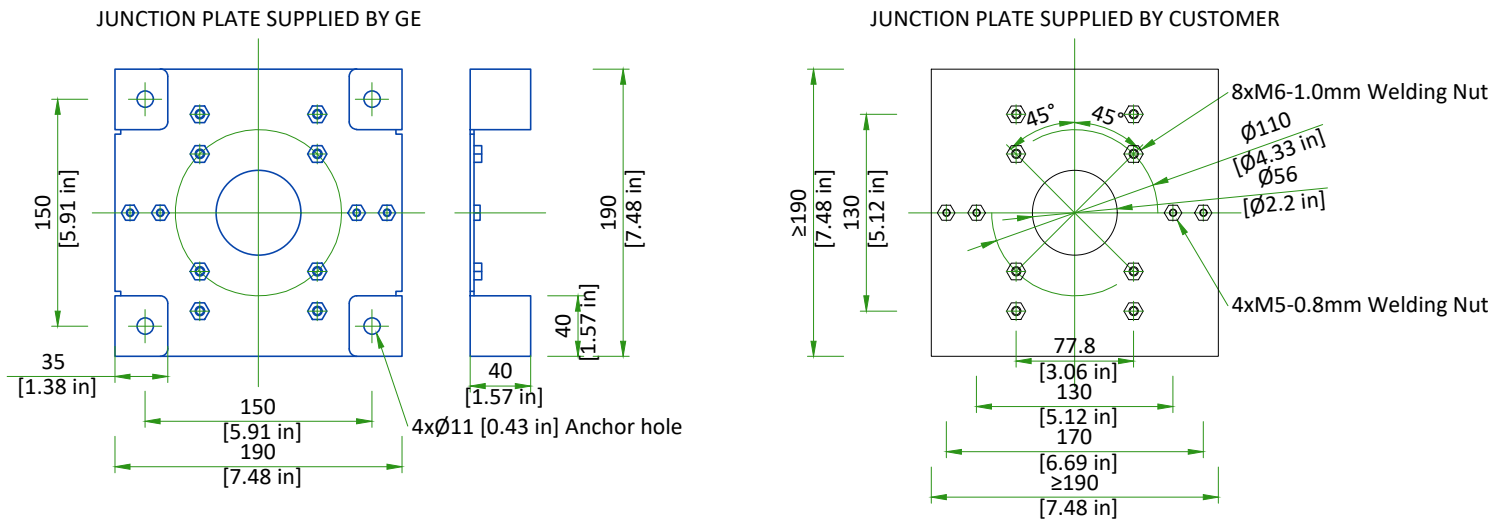
- NOTES:**
- The distance from central line of anchor to the edge of concrete basement of Gantry/Table should not be less than 178 mm [7 in].
  - Torque anchor to 54 Nm [40 ft-lb]

FINISHED FLOOR REQUIREMENTS

- Installation requires a finish floor in the scan and control rooms
- The floor surface in the scan room directly under the gantry and table must be level.
- The floor levelness tolerance of the floor surface that the gantry and table will rest on is 6 mm [1/4 in] over a 3048 mm [10 ft] distance.
- Shims should not be used to compensate for a floor that does not meet this requirement.
- Eight or more floor covering openings that are 102 mm [4 in] in diameter are made to ensure the table and gantry rest on a solid surface. These floor penetrations can be sealed if required.
- Concrete floors must have a minimum strength of  $f'c = 1.7 \times 10^7$  Pa [2500 PSI] at 28 days for (curing time) mounting floor anchors. It is the responsibility of each customer to have appropriate tests performed to determine and measure concrete strength.
- These requirements apply to all installation types.

NOT TO SCALE

POSITIONING CAMERA MOUNTING PLATE



GE will provide a Junction Plate, shipped with the system. If the Junction Plate supplied by GE can not meet the requests of the customer or the building structure, the customer's architect can design and install the Junction Plate (refer to the right side of the detail) with sufficient strength to hold the camera assembly.

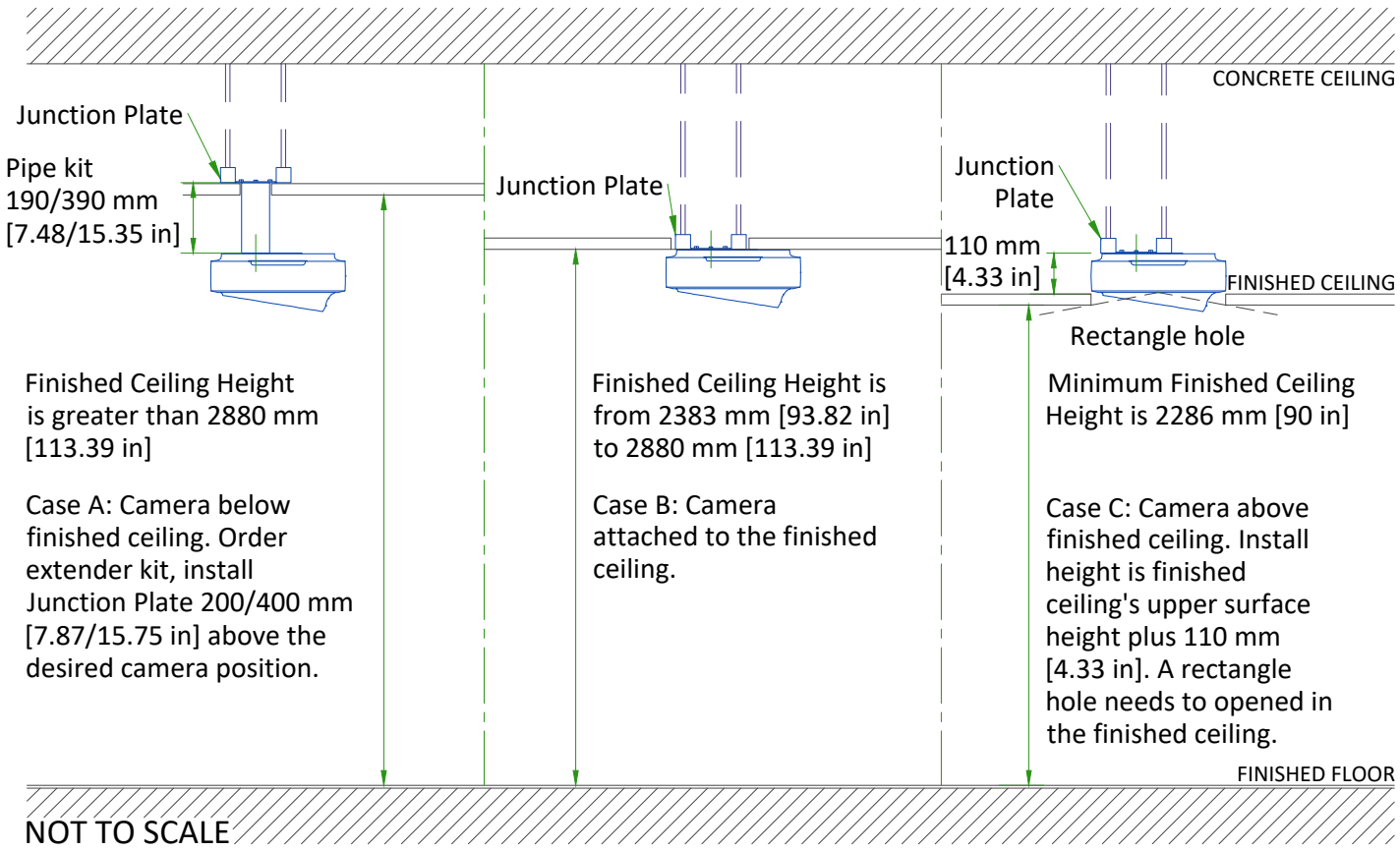
Material: Steel material with a min. tensile strength of 375 MPa  
Plate thickness: 2.5 mm [0.10 in]

|                                                             |                   |                   |
|-------------------------------------------------------------|-------------------|-------------------|
| Welding Nut: Meet GB-T 13681-1992 requirement or equivalent |                   |                   |
|                                                             | M5-0.8 mm         | M6-1.0 mm         |
| Thickness (mm [in])                                         | 3.7-4 [0.15-0.16] | 4.7-5 [0.19-0.20] |
| Pledge load (N)                                             | 11000             | 15500             |

NOTE: The system manufacturer will NOT inspect and test that the fixing methods between the Junction Plate and the building structure meet the loading capacity specified (recommend a 6x safety factor), which is the customer's responsibility. The weight of the camera assembly is approximately 3.2 kg [7.05 lbs], suggest the safety load on the Junction Plate is no less than 20 kg [44.09 lbs]. If the Anchor Bolt is not applicable for site requirement, the customer's architect can consider other methods (such as welding...) to fix the Junction Plate. Presetting for site preparation of the Camera installation, customer had better install the Junction Plate in advance before the system installation.

NOT TO SCALE

POSITIONING CAMERA INSTALLATION POSITION



TEMPERATURE AND HUMIDITY SPECIFICATIONS

IN-USE CONDITIONS

|                       | EXAM ROOM  |             |      | CONTROL ROOM |             |      |
|-----------------------|------------|-------------|------|--------------|-------------|------|
| Temperature           | Min        | Recommended | Max  | Min          | Recommended | Max  |
|                       | 18°C       | 22°C        | 26°C | 18°C         | 22°C        | 26°C |
|                       | 64°F       | 72°F        | 79°F | 64°F         | 72°F        | 79°F |
| Relative humidity (1) | 30% to 60% |             |      | 30% to 60%   |             |      |

STORAGE CONDITIONS

|                       |               |
|-----------------------|---------------|
| Temperature           | 0°C to +30°C  |
|                       | 32°F to +86°F |
| Temperature gradient  | ≤ 3°C/h       |
|                       | ≤ 5°F/h       |
| Relative humidity (1) | up to 70%     |
| Humidity gradient     | ≤ 5%/h        |

Storage longer than 6 months 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                              | Max (kW) | Max (BTU) |
|------------------------------------------------------------------------------------------------------|------------------------------------------|----------|-----------|
| Exam Room                                                                                            | Gantry                                   | 5.48     | 18700     |
|                                                                                                      | GT1700V/GT2000 Table                     | 0.3      | 1030      |
|                                                                                                      | TOTAL                                    | 6        | 19730     |
|                                                                                                      |                                          |          |           |
| Exam Room or Technical Room*                                                                         | Power Distribution Unit                  | 1.0      | 3400      |
|                                                                                                      | Partial UPS - Liebert GXT4               | 0.83     | 2828      |
|                                                                                                      | TOTAL                                    | 2        | 6228      |
|                                                                                                      |                                          |          |           |
| Control Room                                                                                         | Operator console                         | 0.84     | 2860      |
|                                                                                                      | LCD monitor (Total amount of 2 monitors) | 0.1      | 340       |
|                                                                                                      | TOTAL                                    | 1        | 3200      |
| *Technical Room is not mandatory, the placements of these elements are recommended in the Exam Room. |                                          |          |           |



ELECTRICAL NOTES

- 1. Aluminum or solid wires are not allowed.
- 2. Wire sizes given are for use of equipment. Larger sizes may be required by local codes.
- 3. It is recommended that all wires be color coded, as required in accordance with national and local electrical codes.
- 4. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national codes.
- 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.
- 6. General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except MR). Do not mount lights directly above areas where ceiling mounted accessories will be parked.
- 7. 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).
- 8. Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical codes.
- 9. In some cases GE will specify ground wires to be sized larger than code. In these situations, the GE 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 GE equipment is to be made by customers electrical contractor with the supervision of a GE representative. The GE representative would be required to identify the physical connection location, and insure proper handling of GE equipment.
- 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 GE 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 sweep radius bends.
- Conduits and duct above ceiling or below finished floor must be installed as near to ceiling or floor as possible to reduce run length.
- Ceiling mounted junction boxes illustrated on this plan must be installed flush with finished ceiling.
- All ductwork must meet the following requirements:
  - 1.Ductwork shall be metal with dividers and have removable, accessible covers.
  - 2. Ductwork shall be certified/rated for electrical power purposes.
  - 3. Ductwork shall be electrically and mechanically bonded together in an approved manner.
  - 4. PVC as a substitute must be used in accordance with all local and national codes.
- All openings in raceway and access flooring are to be cut out and finished off with grommet material by the customers contractor.
- Electrical contractor to insert pull cords for all cable run conduits.
- 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.

CONNECTIVITY REQUIREMENTS

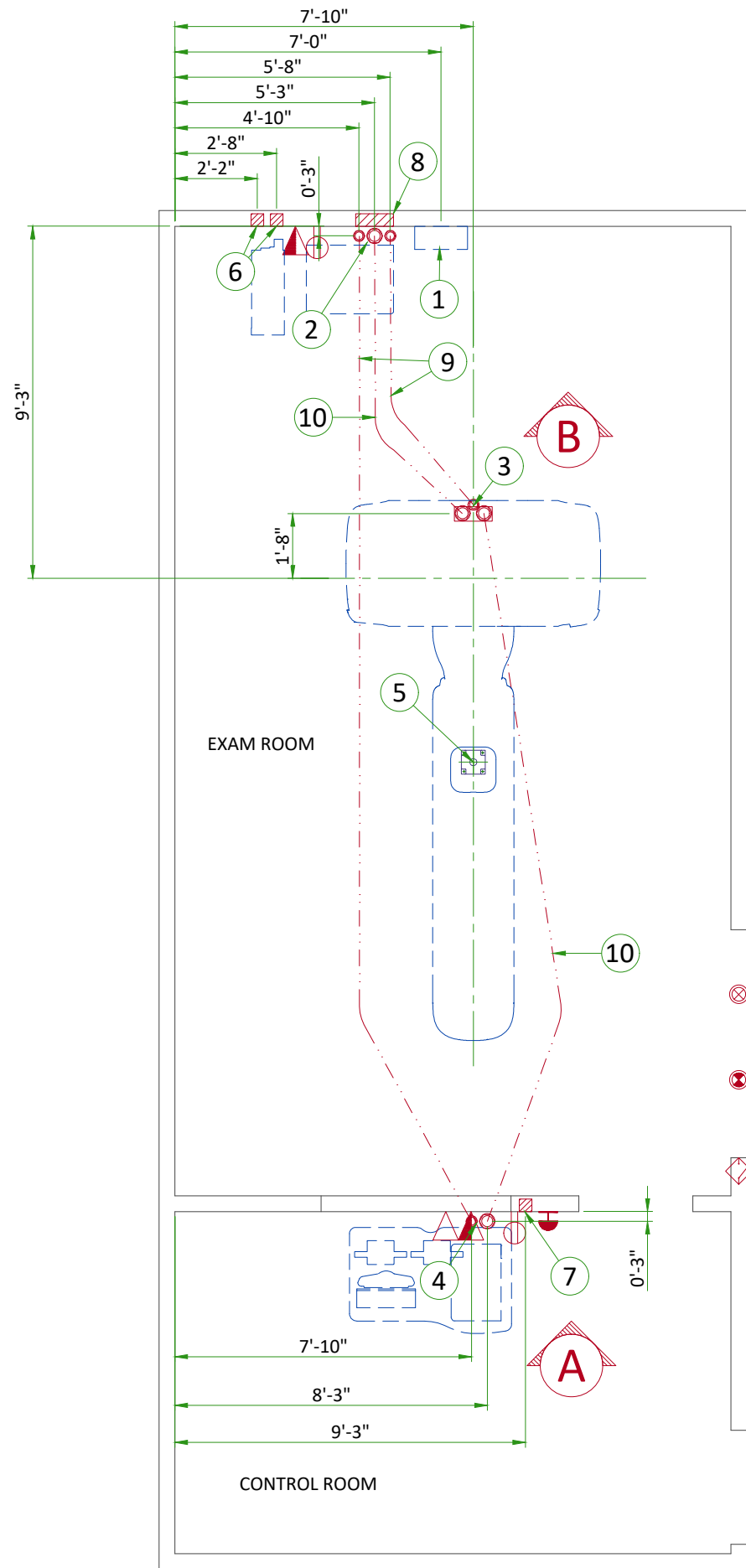
Your new GE Healthcare imaging modality will require local and remote connectivity to enable our full range of digital support:

- 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 methods:

- 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.

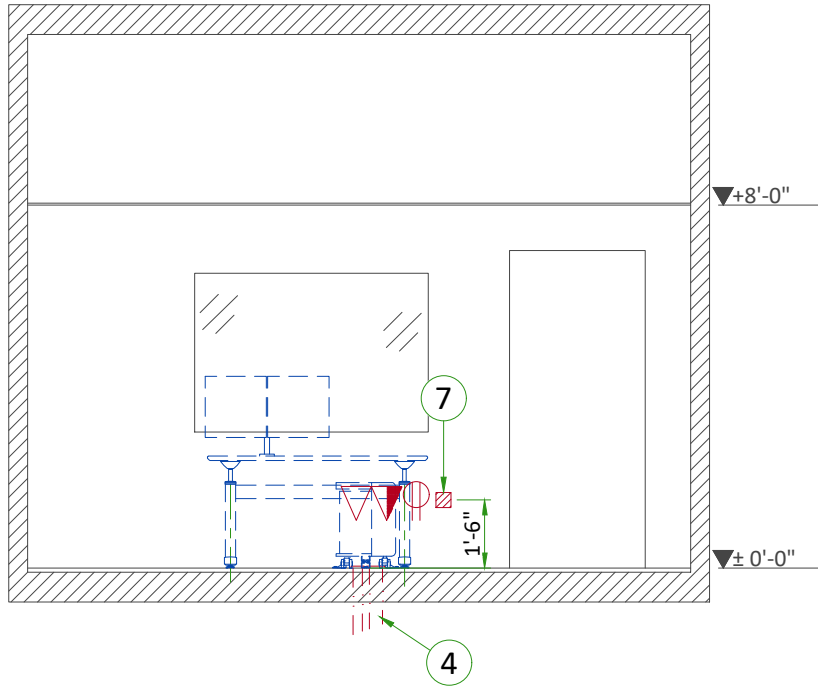


| Item | Electrical Layout Item List                         |
|------|-----------------------------------------------------|
| 1    | Main disconnect panel (MDP)                         |
| 2    | Suitable bushings & lock nuts (PDU)                 |
| 3    | Suitable bushings & lock nuts (Gantry)              |
| 4    | Suitable bushings & lock nuts (Operator's Console)  |
| 5    | Cable inlet above ceiling (Express Camera)          |
| 6    | 4" x 4" x 4" [100 x 100 x 100] box (Partial UPS)    |
| 7    | 4" x 4" x 4" [100 x 100 x 100] box (Express Camera) |
| 8    | 12" x 16" x 4" [150 x 150 x 100] box (PDU)          |
| 9    | 2 1/2" [63] conduit below floor                     |
| 10   | 3 1/2" [90] conduit below floor                     |

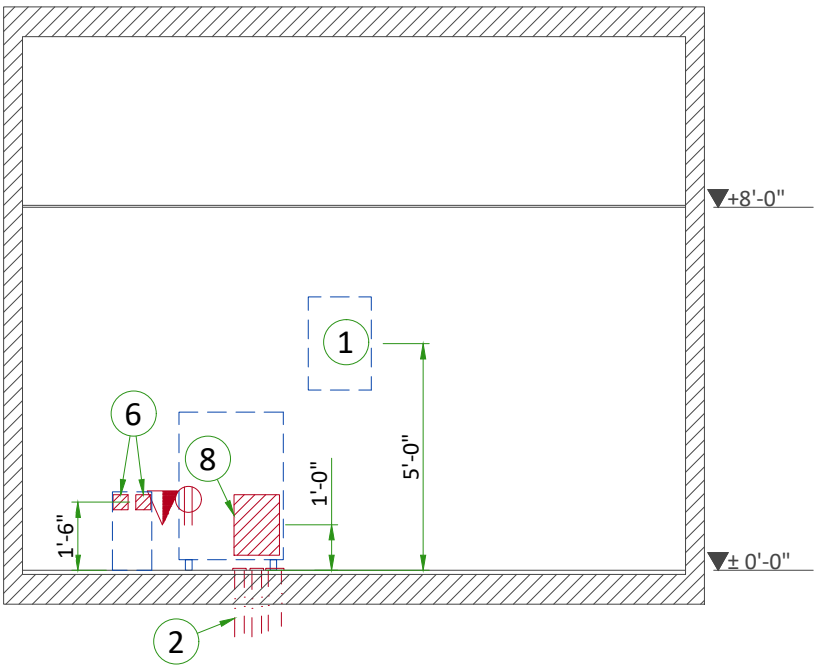
| ITEM                                                                                                                                                     | QTY | Electrical Outlet Legend                                                |
|------------------------------------------------------------------------------------------------------------------------------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

| Additional Conduit Runs<br>(Contractor Supplied and Installed) |                           |     |          |          |  |
|----------------------------------------------------------------|---------------------------|-----|----------|----------|--|
| From<br>(Bubble # / Item)                                      | To<br>(Bubble # / Item)   | Qty | Size     |          |  |
|                                                                |                           |     | In.      | mm       |  |
| 3 Phase Power                                                  | 1 Main Disconnect Panel   | 1   | As req'd | As req'd |  |
|                                                                | Emergency Off             | 1   | 1/2      | 13       |  |
|                                                                | 8 Power Distribution Unit | 1   | As req'd | As req'd |  |
| 8 Power Distribution Unit                                      | Door Switch               | 1   | 1/2      | 13       |  |
| Warning Light                                                  | Warning Light Control     | 1   | 1/2      | 13       |  |
| 1 Phase Power                                                  |                           | 1   | 1/2      | 13       |  |
| 5 Express Camera                                               | 7 Operator's Console      | 1   | 1 1/2    | 38       |  |
| 1 Main Disconnect Panel                                        | 6 Partial UPS             | 1   | 1 1/4    | 30       |  |
| 8 Power Distribution Unit                                      |                           | 1   | 2        | 50       |  |





A



B

POWER REQUIREMENTS

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| POWER SUPPLY                      | 3 PHASES+G<br>200/220/240/380/400/420/440/460/480 V ± 10% |
| FREQUENCIES                       | 50/60 Hz ± 3 Hz                                           |
| MAXIMUM POWER DEMAND              | 100 kVA                                                   |
| AVERAGE (CONTINUOUS) POWER DEMAND | 20 kVA                                                    |
| POWER FACTOR                      | 0.85                                                      |

- 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 device at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.

SUPPLY CHARACTERISTICS

- Power input must be separate 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.
- The minimum recommended transformer size for a dedicated distribution transformer provided for the system is as follows, rated 2.4% regulation at unity power factor:
  - 100 kVA option - 125kVA
  - 75 kVA option - 93.75 kVA
  - 50 kVA option - 62.5 kVA
- Phase imbalance 2% maximum.
- Transients must be less than 1500V peak. (on a 400V line)

GROUND SYSTEM

- System of equipotential grounding.
- 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 system units are located.

CABLES

- Power and cable installation must comply with the distribution diagram.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- The cables from signaling and remote control (Y, SEO, L...) will go to MDP with a pigtail length of 1.5m, 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.

POWER DISTRIBUTION

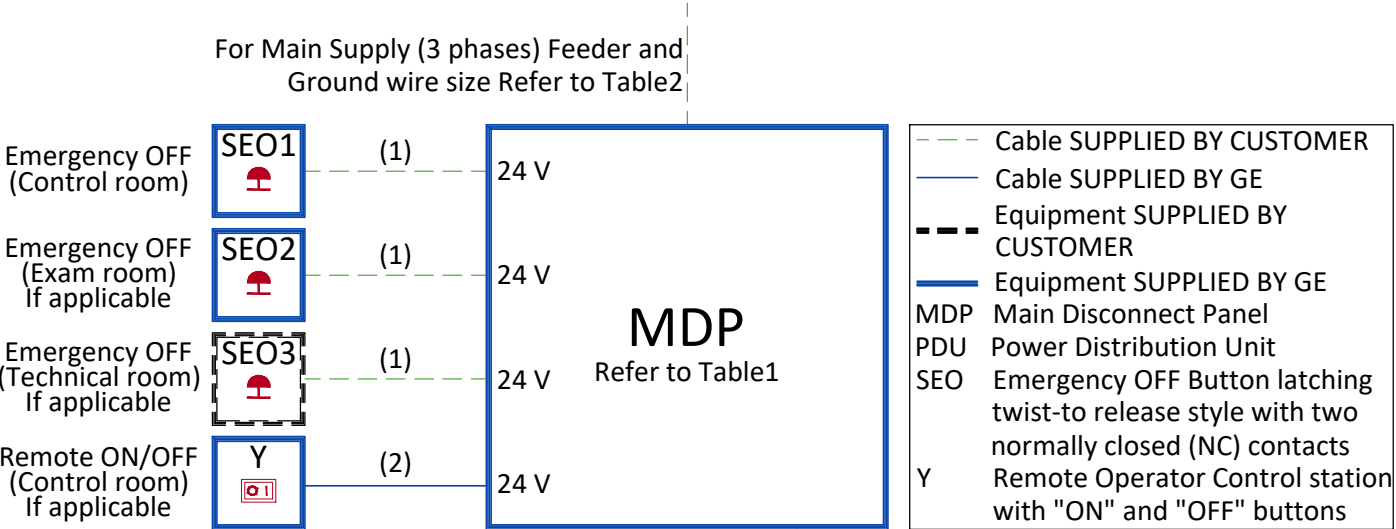


Table1:

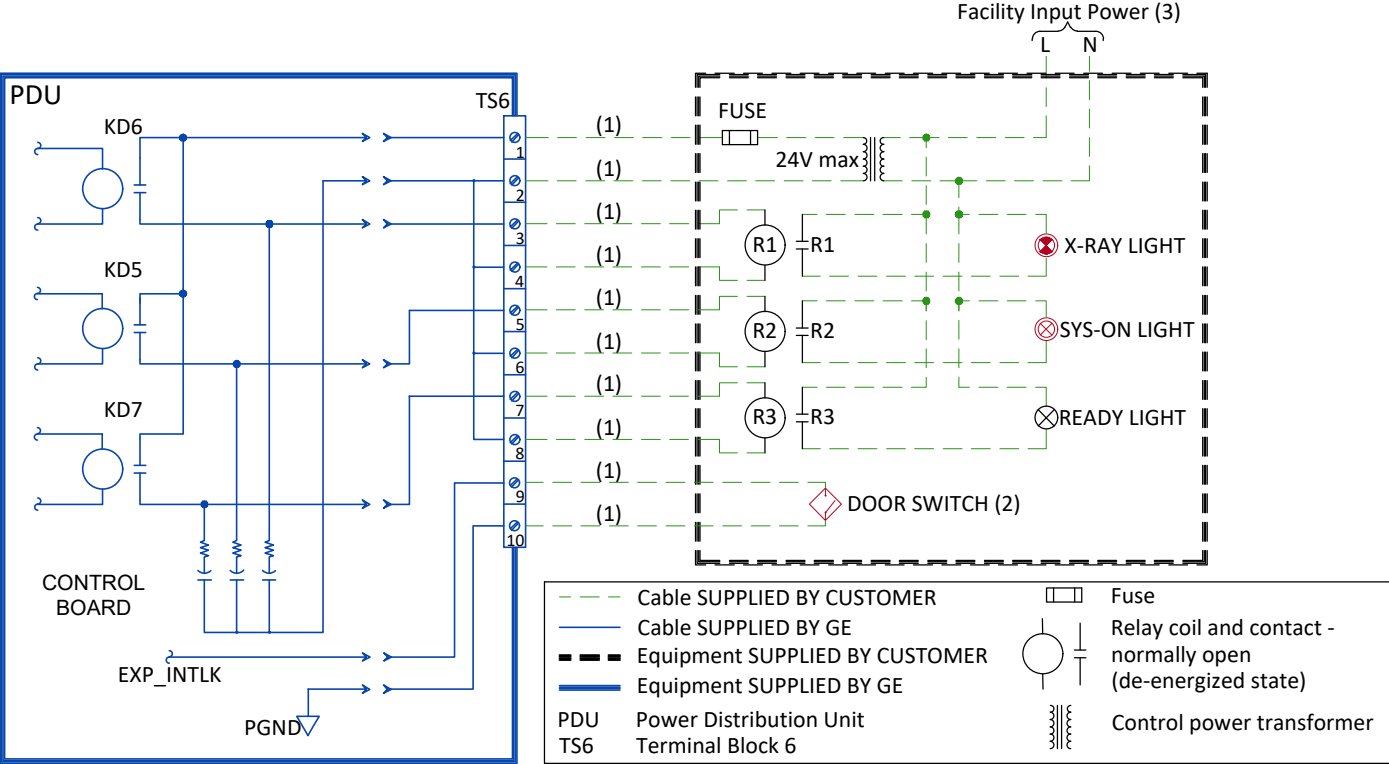
| GE Supplied Main Disconnect Panel (MDP) |              |      |
|-----------------------------------------|--------------|------|
| Region                                  | CAT number   | Amps |
| Global except EMEA(440~480 V)           | E4502BB      | 90   |
| Global except EMEA(380~420 V)           | E4502BC      | 110  |
| EMEA(380~420 V)                         | E45021BB (3) | 125  |

Table2:

| Feeder Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |           |           |          |          |          |          |          |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------|-----------|----------|----------|----------|----------|----------|---------|
| The information below assumes the use of copper wire, rated 75 C and run in steel conduit. All ampacity is determined in accordance with the National Electrical Code (NFPA 70), Table 310-16 (2002). The ampacity of the circuit protection device listed above determines the minimum feeder size, except where total source regulation limits require a larger size. If the wire size does not match the above lists, please select the nearest wire size as per to local standards |                                         |           |           |          |          |          |          |          |         |
| Feeder length from Power Substation to MDP - ft (m)                                                                                                                                                                                                                                                                                                                                                                                                                                    | Minimum Wire Size, AWG or MCM (mm²)/VAC |           |           |          |          |          |          |          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 200 VAC                                 | 220 VAC   | 240 VAC   | 380 VAC  | 400 VAC  | 420 VAC  | 440 VAC  | 460 VAC  | 480 VAC |
| 50 (15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1/0 (50)                                | 1/0 (50)  | 1/0 (50)  | 2 (35)   | 2 (35)   | 4 (25)   | 4 (25)   | 4 (25)   | 4 (25)  |
| 100 (30)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2/0 (70)                                | 1/0 (50)  | 1/0 (50)  | 2 (35)   | 2 (35)   | 4 (25)   | 4 (25)   | 4 (25)   | 4 (25)  |
| 150 (46)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4/0 (120)                               | 3/0 (95)  | 3/0 (95)  | 2 (35)   | 2 (35)   | 4 (25)   | 4 (25)   | 4 (25)   | 4 (25)  |
| 200 (61)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 250 (120)                               | 4/0 (120) | 4/0 (120) | 2 (35)   | 2 (35)   | 4 (25)   | 4 (25)   | 4 (25)   | 4 (25)  |
| 250 (76)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 300 (150)                               | 250 (120) | 250 (120) | 1 (35)   | 1 (35)   | 2 (35)   | 2 (35)   | 2 (35)   | 4 (25)  |
| 300 (91)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 350 (185)                               | 300 (150) | 250 (120) | 1/0 (50) | 1/0 (50) | 1 (35)   | 1 (35)   | 2 (35)   | 2 (35)  |
| 350 (107)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 400 (185)                               | 350 (185) | 300 (150) | 2/0 (70) | 1/0 (50) | 1/0 (50) | 1 (35)   | 1 (35)   | 1 (35)  |
| 400 (122)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 400 (185)                               | 350 (185) | 350 (185) | 2/0 (70) | 2/0 (70) | 1/0 (50) | 1/0 (50) | 1/0 (50) | 1 (35)  |
| Sub-Feeder length from MDP to PDU - ft (m)                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |           |           |          |          |          |          |          |         |
| 32 (9.7536)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1/0 (50)                                | 1/0 (50)  | 1/0 (50)  | 2 (35)   | 2 (35)   | 4 (25)   | 4 (25)   | 4 (25)   | 4 (25)  |
| Grounding                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |           |           |          |          |          |          |          |         |
| Run a dedicated 1/0 [50 mm²] or larger insulated copper ground wire from the power source to the MDP and from MDP to the PDU. Run the ground wire in the same raceway with the three-phase wires.                                                                                                                                                                                                                                                                                      |                                         |           |           |          |          |          |          |          |         |

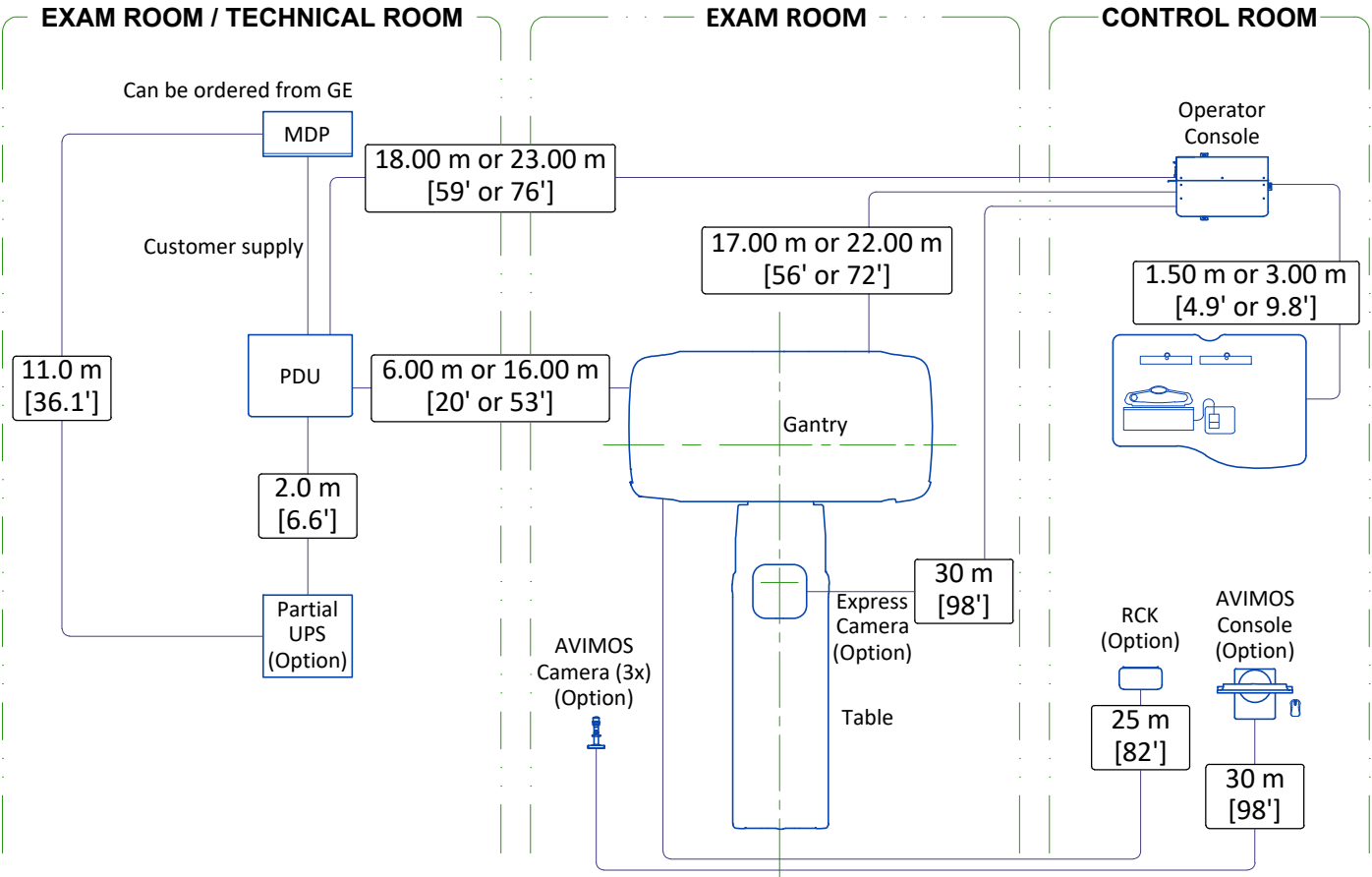
- Notes :
- (1) Wire size: 4x2.5mm² [14AWG] and 1x2.5mm² [14AWG] GND
  - (2) Power control cable: 3 m [10 ft] multi-conductor, 24V DC
  - (3) GE supplied MDP option E45021BB includes a 10 meter long power cable (H07RN-F) with wire size 4x50mm² and a 50 meter long control cable with wire size 2x1.5mm²

SCAN ROOM WARNING LIGHT AND DOOR INTERLOCK



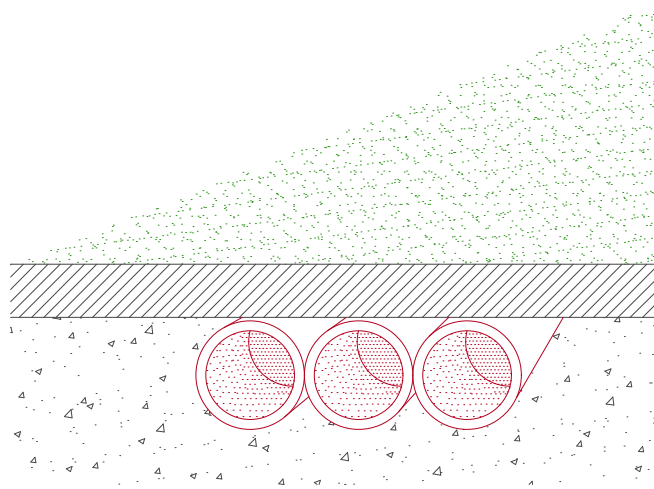
- Notes :
- (1) Wire size: 2mm<sup>2</sup> [14 AWG] at 24V
  - (2) Door Interlock circuit is jumpered out if a door switch is not provided.
  - (3) Grounding not shown on the detail, but must comply with local codes.

INTERCONNECTIONS



TYPICAL CABLE MANAGEMENT

CONDUIT IN THE FLOOR



NOT TO SCALE