



^aTypical configuration shown (not site specific).

Site Preparation drawings

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General

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Revision history

Revision history				
Rev	Date	Rev	Chg	Rev
0	06-Dec-2018	FWL	FWL	FWL
1	06-Dec-2018	FWL	FWL	FWL
2	06-Dec-2018	FWL	FWL	FWL
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100	06-Dec-2018	FWL	FWL	FWL

Important notes
The document is in

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Customer ID:

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Drawing

Quote No
Order No

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Sheet
C-1
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Project
Multiva 1.5T Galaxy HP
General Hospital of Athens-Sismanogleio
Athens , Greece
MR

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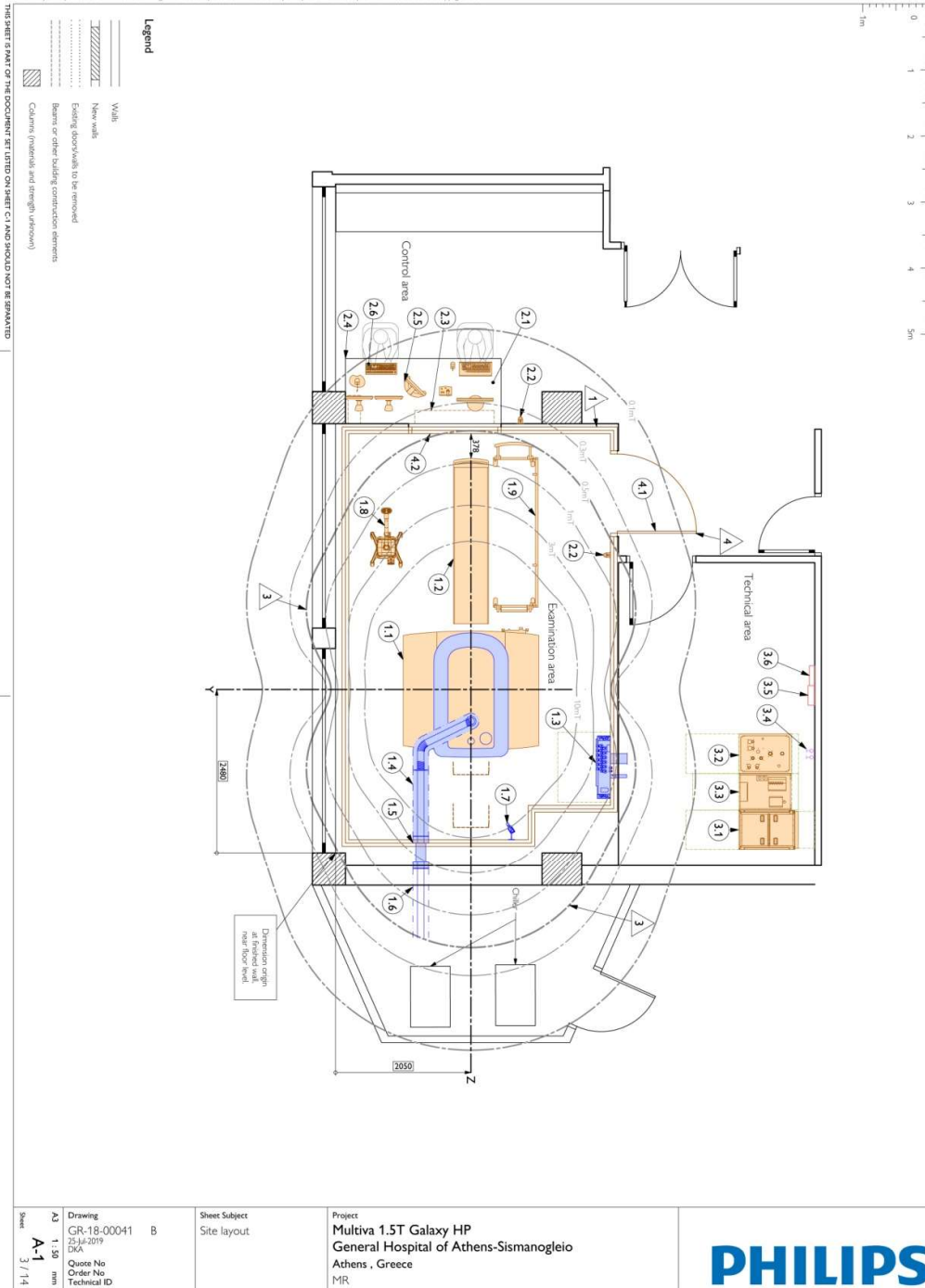
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	Drawing alerts:	Site requirements	Multiva 1.5T Galaxy HP																																																																																					
	⚠ Drawing alerts: Dimensions for building works in the examination room (like RF cage construction and wall opening) are for indication and subject only. Refer to the drawing of the RF cage vendor for actual construction dimensions (for magnets like to A2.1 sheet). Patient shielding or fencing may be required to contain the B1 field line within the floor and ceiling of the examination room. Patient shielding or fencing may be required to contain the B1 field line within the back and side wall of the examination room. When installing permanent or RF door magnets, take care to ensure it is the center of a possible square. If the door opens inward, a compression field through with minimum dimension of 600 mm x 600 mm must be installed. Ferrite magnet beams perpendicular to the Z-axis of the magnet must be located at least 250 mm below the finished floor. All other ferrite magnetic beams must be located at least 600 mm above the finished floor. For the maximum flux of 2000 mT x 3000 mm perpendicularly around magnet's isocenter: • NO gas flow, 50 mm below finished floor • Minimum clearance between 50 mm and 250 mm below the finished floor. • Measurements below 250 mm can be ignored. • Fully distributed.	Main power • Supply configuration: - Three-phase supply system with 400 VAC - DUE version to be ordered as order questionnaire. - 230V/400V +10%/-5%, 50/60Hz ±1 Hz - 480V ±10%, 60Hz ±1 Hz - < 150 mVA (at nominal voltage) Electrical power rating (230/400-voltage type) Rated current: 90 Ampere Peak current: 150 Ampere Normal line rating: 100 A rms Apparent Power: 63 kVA (*) In US, for the maximum B1 isocenter, it is required provide the UPS supplier and not only the UPS itself. The UPS specification must be higher than the following values: - Voltage: 480V AC - Capacity: 100 kVA - Higher (kVA) specification of the UPS needed. (**) For 230V configuration (= Size to neutral), Type A3 or G, according DIN44620 VDE 0684 part 1 and 2A. Remote service diagnostics The remote service technician will require access to the customer's network (100/1000 Mbps). Environmental requirements Examination room: Temperature: 18°C-22°C Relative humidity: 45%-75% Required Air Conditioning Capacity: 2kW The examination room will be removed from the room by an additional air treatment system. • Gradient coil heat dissipation (1 to 15 kW) will be removed via liquid cooling of the gradient coils. Technical room: Temperature: 15°C-24°C Humidity: 45%-75% Maximum temperature change: 5°C per 10min Required Air Conditioning capacity: no less than 7 kW • Standby heat dissipation: 1 kW • Min. flow: 4000 L/h • Pressure drop (with 100% Water): 1 Bar. Cooling room: Temperature for lower cabinet: 18°C-24°C Temperature for upper cabinet: 18°C-24°C Temperature for MRI equipment: 10°C-15°C Maximum temperature change: 5°C per 10min Required Air Conditioning Capacity: 0.5 MW	Reproducible - A Delivered as indicated by physics - B Delivered and installed by customer/installer - C (Phe) Delivered by Philips, installed by customer - E Delivered by customer and installed by Philips - E Existing * Heat load indicated is peak dissipation for each cabinet measured individually. Peak room load calculation is indicated as sum of all heat loads. Heat load from two units of cabinets need to be taken into account if they are placed side by side with no parallel walls at the same time. Project notes MR Philips cannot assume any liability for the accuracy of the information and the consequences. The equipment proposed in the room layout provides a strong magnetic field. It is the customer's responsibility to comply with the local regulations. Naturally this leads to the patient's safety. Please contact your local authorities for more information and instructions. Consult the Philips contact for details and support.	<table><tr><th>Exam. area</th><th>Heat. Load [W]</th><th>Noise [dBA]</th></tr><tr><td>Examination area</td><td>-</td><td>-</td></tr><tr><td>A 1 Scanner gateway 1.5T</td><td>4500</td><td>-</td></tr><tr><td>A 12 Patient table</td><td>165</td><td>-</td></tr><tr><td>A 13 System filter box</td><td>80</td><td>1000+</td></tr><tr><td>A 14 He gas exhaust pipe inside RF-cage</td><td>-</td><td>-</td></tr><tr><td>A 15 He gas exhaust pipe outside RF-cage</td><td>-</td><td>-</td></tr><tr><td>B 16 Patient observation wall camera</td><td>1</td><td>-</td></tr><tr><td>A 17 Patient observation wall camera</td><td>1</td><td>-</td></tr><tr><td>A 18 Injector</td><td>51</td><td>-</td></tr><tr><td>A 19 Patient trolley</td><td>-</td><td>-</td></tr><tr><td>Control area</td><td>-</td><td>-</td></tr><tr><td>A 21 Operating station</td><td>76</td><td>-</td></tr><tr><td>A 22 Emergency stop button</td><td>-</td><td>-</td></tr><tr><td>A 23 Data Storage Unit</td><td>-</td><td>-</td></tr><tr><td>A 24 Operator's table</td><td>43</td><td>100+</td></tr><tr><td>A 25 Patient observation monitor</td><td>42</td><td>100+</td></tr><tr><td>A 26 Intelligent portal workstation PK</td><td>11</td><td>-</td></tr><tr><td>Technical area</td><td>-</td><td>-</td></tr><tr><td>A 31 Data Acquisition & Control Cabinet</td><td>130</td><td>7000+</td></tr><tr><td>A 32 Liquid cooling cabinet</td><td>300</td><td>1000+</td></tr><tr><td>A 33 Gradient amplifier cabinet (B)</td><td>467</td><td>-</td></tr><tr><td>B 34 Gradient water connection</td><td>-</td><td>-</td></tr><tr><td>B 35 Mains supply</td><td>-</td><td>-</td></tr><tr><td>B 36 Earth reference terminal</td><td>-</td><td>-</td></tr><tr><td>General</td><td>-</td><td>-</td></tr><tr><td>A 41 RF door</td><td>-</td><td>-</td></tr><tr><td>A 42 RF window</td><td>-</td><td>-</td></tr></table>	Exam. area	Heat. 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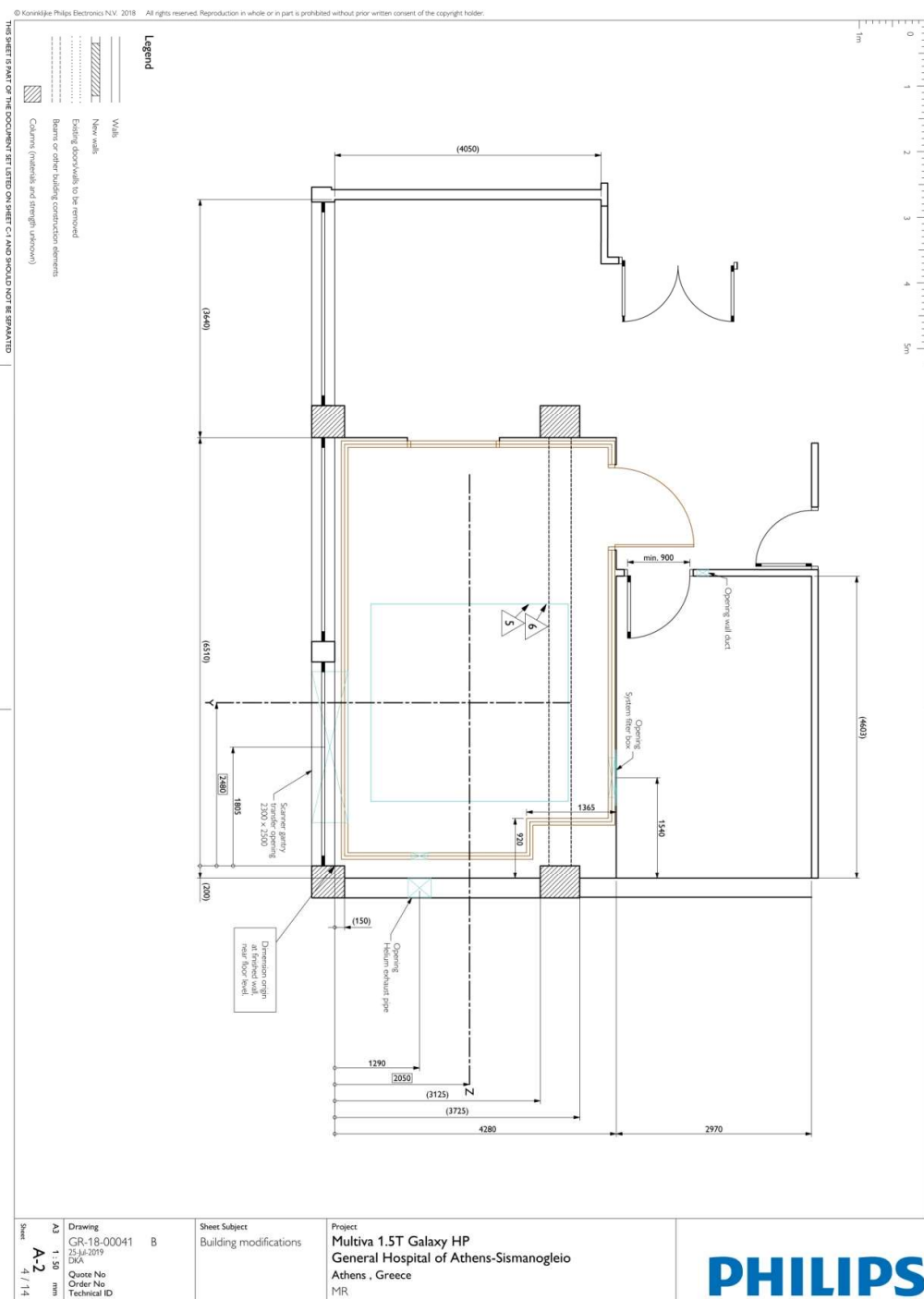


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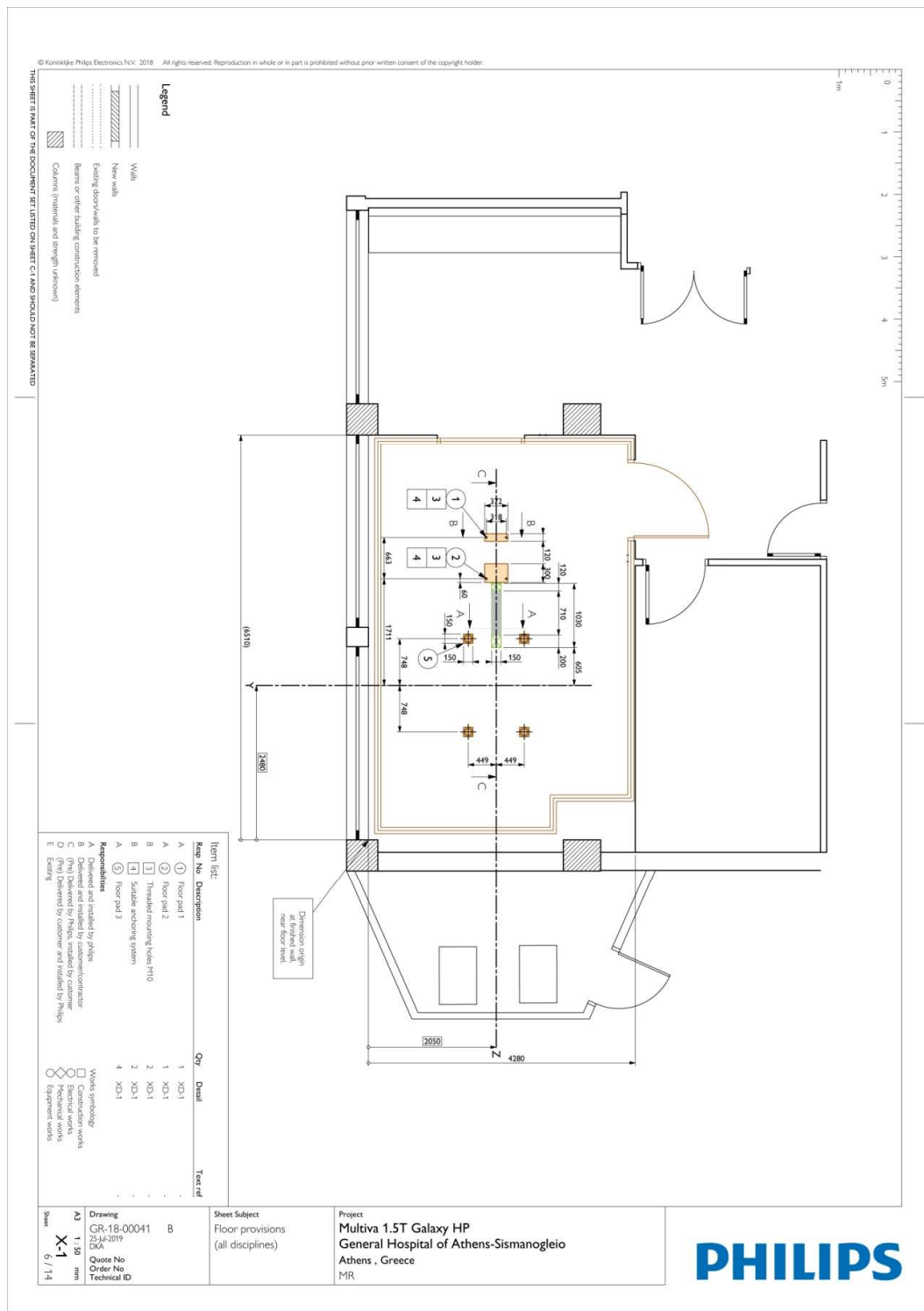
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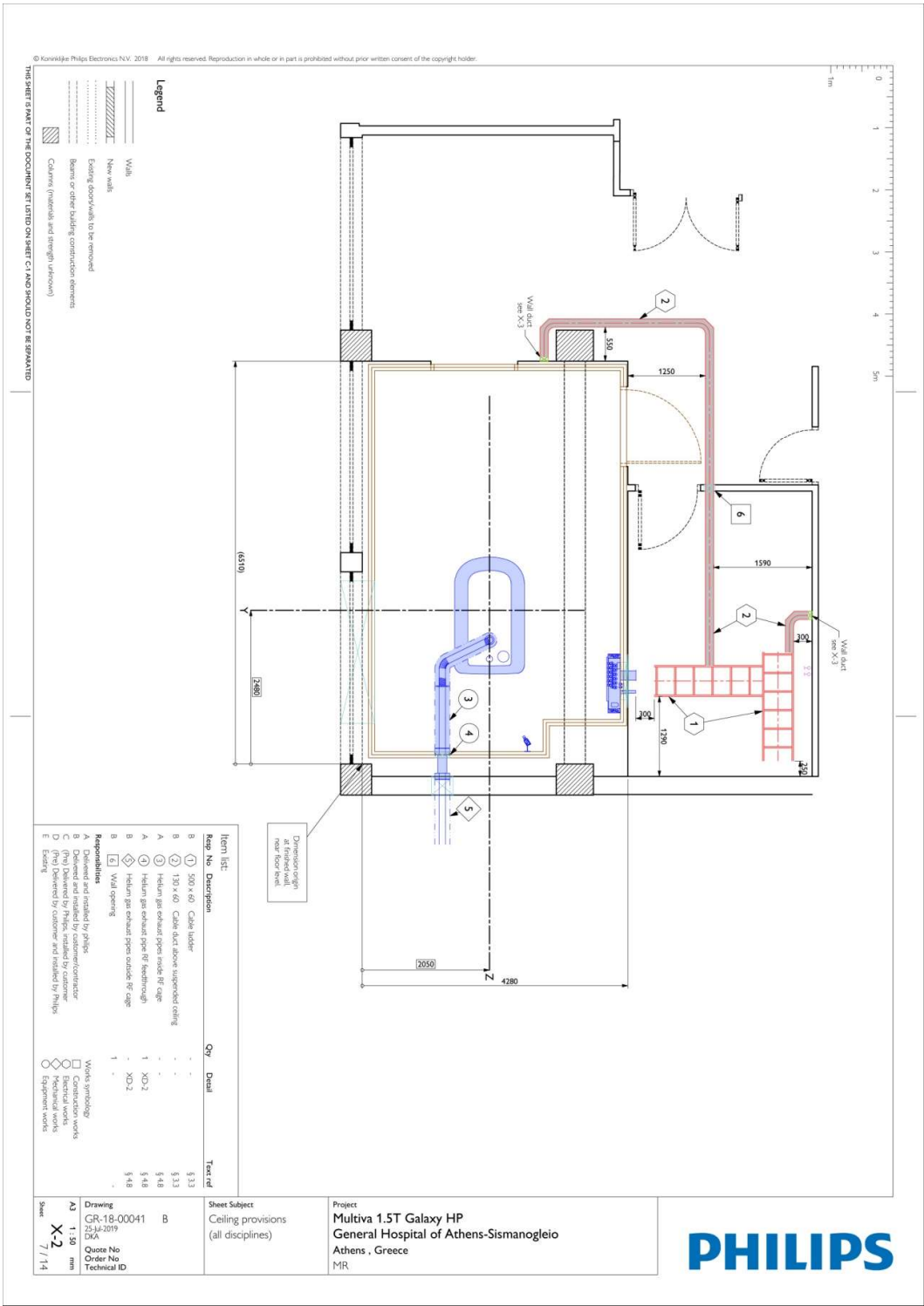
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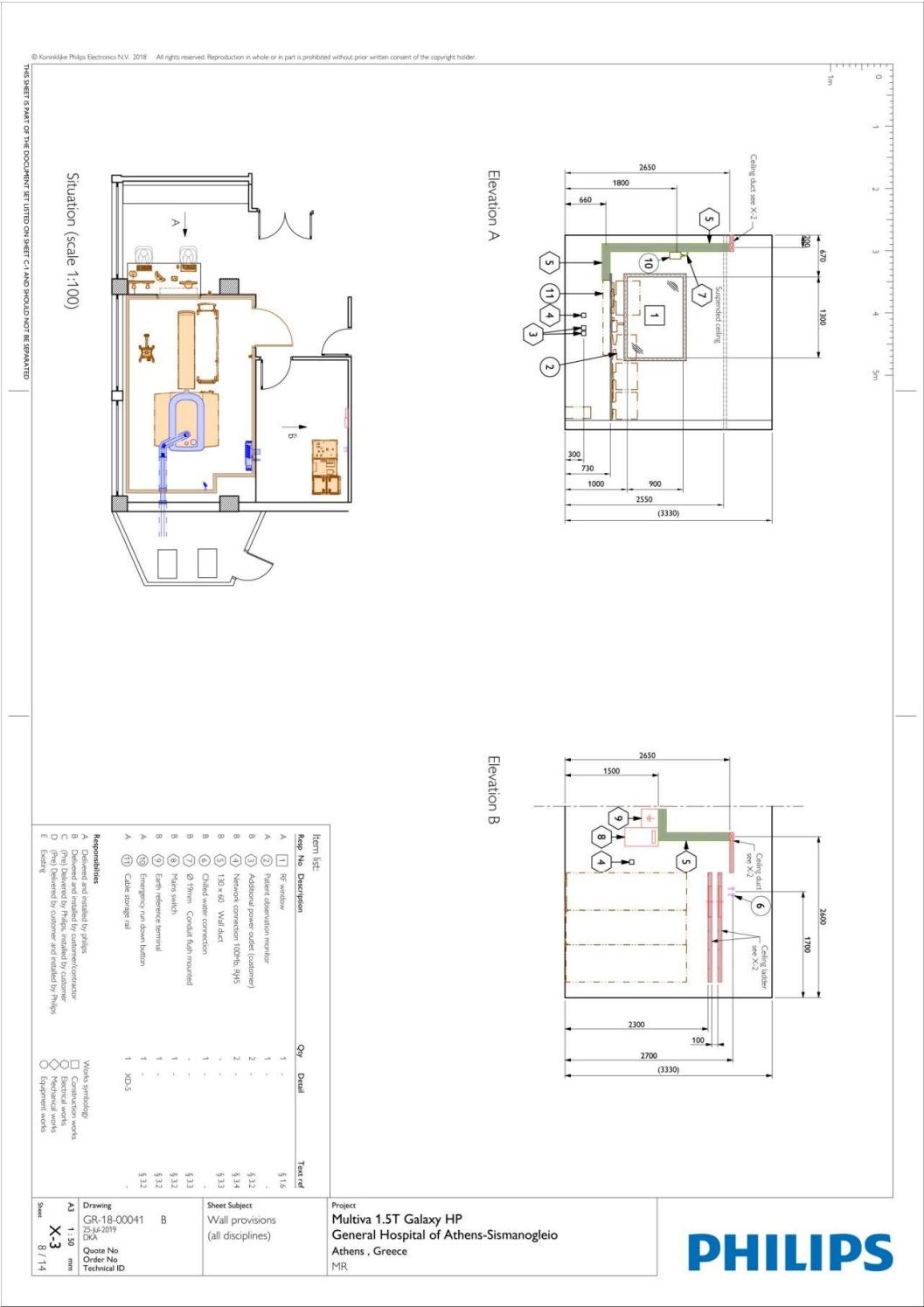


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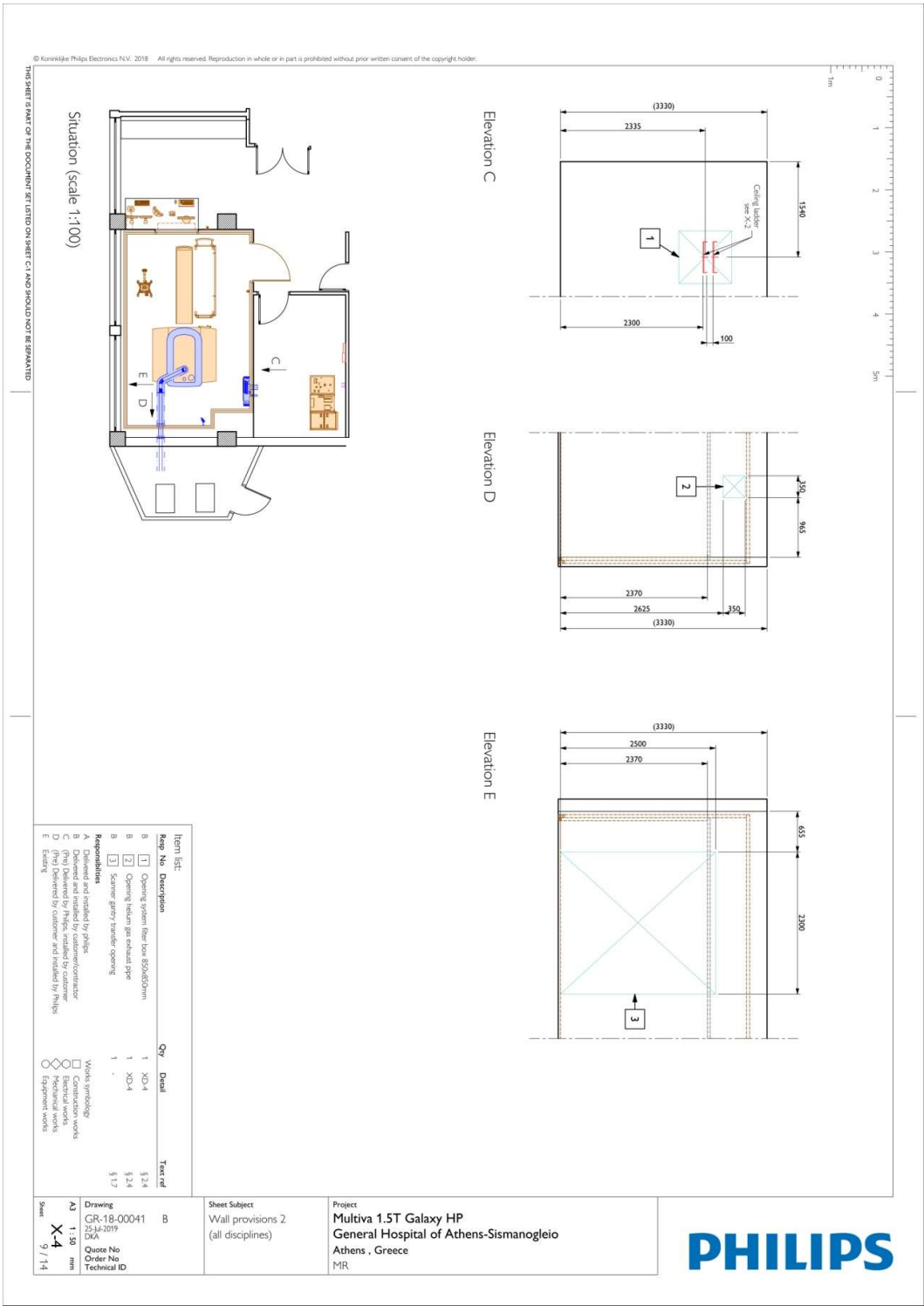


Σχ 7

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Σχ 8



Σχ 9

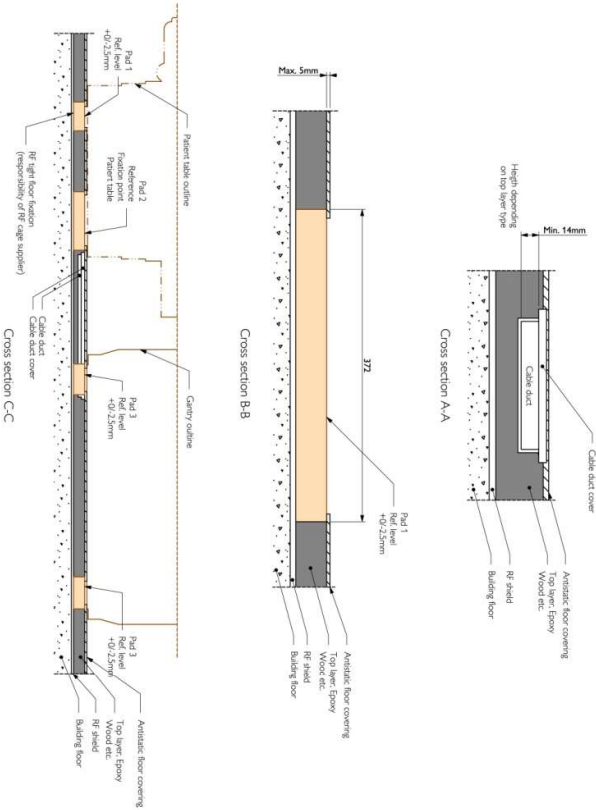
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Detail - Scanner gantry/patient table pads (not to scale)



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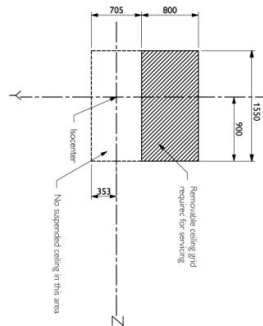
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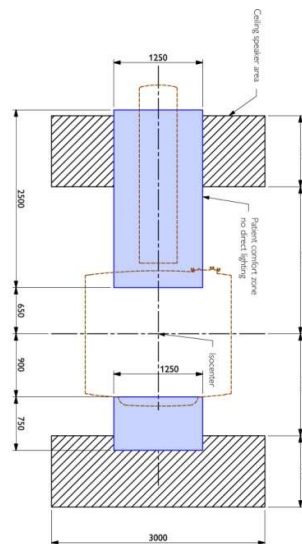
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Detail - Suspended ceiling magnet service area
(scale 1:50)



Detail - Ceiling area for lighting and speakers (scale 1:50)



Sheet
12 / 14

A3
XD-3
mm

Drawing
GR-18-00041 B
25-Jul-2019
DKA
Quote No
Order No
Technical ID

Sheet Subject
Details 3
(all disciplines)

Project
Multiva 1.5T Galaxy HP
General Hospital of Athens-Sismanogleio
Athens , Greece
MR

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Σχ 12

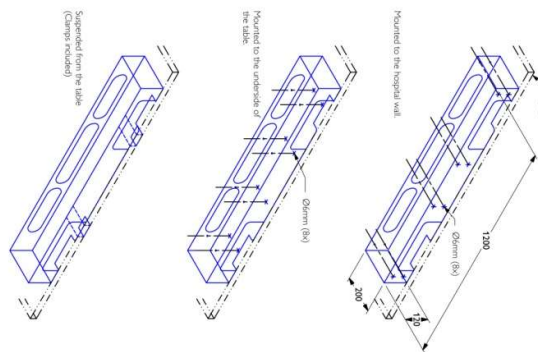
Σελ. 12 από 15



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Detail - Mounting Instruction Storage tray
(Not to Scale)



Sheet XD-5 1/4 / 14	AD Drawing GR-18-00041 B 25-Jul-2019 DIA Quote No Order No Technical ID	Sheet Subject Details 5 (all disciplines)	Project Multiva 1.5T Galaxy HP General Hospital of Athens-Sismanogleio Athens , Greece MR
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Σχ 14

