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Final Site Preparation Support Document

The equipment components shown in this drawing package are based on the current proposed purchase and are subject to change if modifications are made to the configuration.

VA Medical Center Gainesville

Gainesville, FL

*Photo shown is not site specific.

Table of Contents

Important Note:

THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.
Philips assumes no liability nor offers any warranty for the fitness or adequacy of the premises or the utilities available at the premises in which the equipment is to be installed, used, or stored.

For Architects and/or Contractors: The latest revision listed must be thoroughly reviewed so that all changes can be incorporated into your project, final revisions are valid for 90 days from latest revision date. Please check with Philips PM for current updates.

Rev.	Date	Revision Descriptions	Planner	CPM	Approved By
-	8/18/2025	Created Preliminary Site Support Document per Quote #: Q-00552854. System upgraded to Rel. 3 from Rel. 2.2 reference project #: N-SOU210414. Created drawing packet in reference to project #: N-SOU070960 for existing conditions.	Pablo Arosemena	Michelle Horvath	
A	8/26/2025	Created Pre-Order Site Support Document per Quote #: Q-00552854.	Nicole Romero	Michelle Horvath	
B	11/14/2025	Created Final Site Preparation Support Document per Order #: 6600762648.	Andrew Defelice	Michelle Horvath	
C	12/4/2025	Replaced the Styker Booms with Drager Booms per CAD file: F02 VA Malcom Randall EP Lab_11NOV2025 AP.dwg-matched Styker locations per request. Updated Intrasight to go to EP Boom. Removed TV2 & TV3. Added Xper Hemo. Relocated AVOX2 & AVOX3. Updated conduits and added WR4. Moved EPB 0'-8" plan south. Reconfigured equipment room including IC and SH. Updated Planning Issue Notes.	Alison Baillargeon	Alan Rooks	

NOTE:
ALL SHEETS IN THE "R" SERIES ARE REFERENCES TO VIEWS IN THE MAIN SET AND ARE MEANT TO BE PLOTTED AT 11x17

PHILIPS

VA Medical Center Gainesville
Gainesville, FL
PROVISIONAL

Drawing Title

COVER SHEET

THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Project
Azurion 7 B20/12 (Cardiac) - Swivel Catalyst
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
Email: alan.rooks@philips.com

Drawn By: Alison Baillargeon

Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/26/2025
Quote: Q-00552854
Order: 6600762648

CS

HVAC Requirement for General Equipment Locations

These temperature and humidity levels must be maintained in all (3) rooms (equipment, examination and control rooms).

Temperature	59°F (15°C) to 86°F (30°C)
Temperature gradient	Max. 1°F / Minute (0.5°C / Minute)
Humidity (non-condensing) Humidity shall be stable within 10%	20% to 80%
Exam Room	*6479 BTU/hr
Equipment Room	*13299 BTU/hr
Control Room	*1876 BTU/hr

***Average heat emission during clinical use**
Data applicable for basic system:
Large monitor + 4 x small monitor in Monitor Ceiling Suspension
1 workstation + 2 x small monitor in Control Room

Add 8750 BTU/hr for optional Socomec UPS
Add 1075 BTU/hr for additional large monitor
Add 256 BTU/hr for additional small monitor
Add 631 BTU/hr for additional workstation
See AD details for additional heat load in case of UPS.

Equipment's designed airflow is from front/side to back. Please design the air handling in the rack cabinet equipment area accordingly.

Philips IGT-S systems may only be operated at an altitude of max. 9,843 ft (3,000m) above sea level as defined in our instructions for use (IFU).

(25.0)

Electrical Requirements Mains MA Cabinet

Maximum Rated Power: 100kW

Supply Configuration: 3 phase, equally sized insulated power conductors and an insulated equipment grounding conductor. Insulated grounding conductor shall have the same or larger size than line conductors. Line wires shall be no smaller than 4 AWG, 90°C or higher temperature rating. The conductor size is dependant on the upstream circuit breaker rating:

Nominal Line Voltage: 380 (Canada) - 480 VAC, 60 Hz

Branch Power Requirement: 100 kVA (System only; verify UPS power requirements)

System Circuit Breaker: 3 phase, Type D with long-time delay and shunt trip

System Circuit Breaker: 80A rating.
UPS breaker: 125A-150A, pending configuration.

(24.1)

Remote Control of Room Lighting

Room lighting controls are the responsibility of the customer. Refer to sheet 3-ED for X-ray in use and room light switching requirements.

(25.0)

Milestone and General Conditions for Successful IGT Projects

1. **Planning, Design, and Implementation Process**
   The multidisciplinary project team should be assembled as early as possible in the design process. The multidisciplinary team should include administrators, clinicians, infection preventionists, architects and other design professionals, facility managers, safety officers, security managers, users of equipment, and support staff relevant to the areas affected by the project as well as those with knowledge of the organization's functional goal for the project. Inclusion of patient advocates/consumers, A/E consultants, and construction specialists should be considered. Additionally, adherence to FGI (Facility Guidelines Institute) and ADA (Americans with Disabilities Act) guidelines should be taken into account.

2. **Schedule**
   The customer or general contractor shall provide Philips with a project/construction schedule with milestones to assist in the coordination of delivery of Philips supplied products and primary equipment. Project schedule must be provided by customer to obtain production slot and delivery.

3. **Responsibility**
   The customer shall be solely responsible, at their expense for preparation of site. Philips required specifications and any required MEP, construction and structural alterations shall be incorporated into customer's design and construction documents. Compliance with all safety, electrical, and building design codes relevant to the build out of the clinical area for Philips equipment and its installation is the customer's responsibility. Sufficiency of such plans and specifications, specifically including, but not limited to the accuracy of the dimensions described therein, shall be the sole responsibility of the customer. The customer shall advise Philips of conditions at or near the site, which could adversely affect the function of the equipment and/or carrying out of the delivery and installation work.

   a. **Customer's structural engineer shall provide Philips with written certification that structural supports meet Philips requirements to permit delivery and installation of equipment.**

   b. **Customer shall acknowledge the final site preparation confirmation document.**

   c. **Upon completion of project, Customer's Architect and Engineers of record shall provide a set of As-Built project construction documents (.dwg) to Philips for closure of the Philips project history file.**

   This shall ensure that such conditions are compliant and that the site is fully prepared and available for Philips before the installation work is due to begin.

4. **Permits**
   Customer shall obtain all permits and licenses required by federal, state/provincial or local authorities in connection with the construction, installation and operation of the products and shall bear any expense in obtaining same or in complying with any related rules, regulations, ordinances and statutes.

5. **Infection Control and Interim Life Safety Measure**
   The customer shall provide all means and methods necessary for compliance with Infection Control (IC) and Interim Life Safety Measures (ILSM) in connection with the construction and installation/operation of the products shown herein and shall bear any expenses related to same.

6. **Radiation Protection**
   The customer or their contractor, at their own expense, shall obtain the service of a licensed radiation physicist to specify radiation protection and testing.

7. **Asbestos and Other Toxic Substances**
   Philips assumes that there is no hazardous material contained in the project site. The customer is responsible for the removal of any materials, including but not limited to asbestos, deemed hazardous by local authorities, the EPA, OSHA, or any other authority having jurisdiction over the work. If such materials are discovered at any time that the work is proceeding, the work will immediately cease, the owner will be notified, and the work will again proceed after the owner has removed all of the hazardous material from the job site.

8. **Labor**
   In the event local labor conditions make it impossible or undesirable to use Philips' regular employees for such installation and connection, such work shall be performed by laborers supplied by the customer, or by an independent contractor chosen by the customer at the customer's expense, and in such case, Philips agrees to furnish adequate technical support and supervision for proper completion for the Philips equipment installation.

9. **Extended Installation or Turnkey Work by Philips**
   If an extended installation or turnkey contract exists between Philips and the customer for room preparation some of the responsibilities of the customer as depicted in these drawings may be assumed by Philips. In the event of a conflict between the work described in the turnkey contract work scope and these drawings, the turnkey contract work scope shall govern.

10. **Boom Vendors/3rd party cables**
    Separation of cables shall be provided by boom vendor for the installation of cables within the boom. For example, use liquid-tight plastic conduit.

(25.0)

Customer Project Manager - Site Readiness Checklist

(25.0)

SITE PREP TO BE COMPLETED PRIOR TO FIRST MILESTONE DATE / REQ/ PRIOR TO DELIVERY

Site Planning Requirements/Checklist	REQUIRED 15 DAYS PRIOR TO FINAL PHILIPS INSPECTION	Room: cabinets, furniture, millwork, and counter tops installed.
System Orientation: Verified per Philips Final Drawings	Customer (contractor) completed the Site ready validation (Unistrut conformance) email acknowledgment. Document archived in note/attachments.	Network Connections: Hardware (J-boxes, conduits, and network cable) is installed per Philips Final Drawings.
FlexArm Clearance (if applicable): Verified per Philips Final Drawings.	Clearances: Verified to the closest obstacles (i.e. walls, cabinets), in order to lift up the C-arm, monitor support, etc.	UPS: Fully installed per Philips Final Drawings, and startup has been scheduled with vendor.
3rd Party Booms (if applicable): Compatibility, locations, and isolation kits have been verified with boom vendor and the Philips Final Drawings are updated with the information. If required, a 'Request for Modification' has been submitted.	Cable Trough/Cable Raceway/Conduit: Installed, cleaned and locations per Philips Final Drawings. Cable openings are clear, without sharp edges.	UPS: Comm cable is run from UPS to M Cabinet
Video Connection Boxes: Locations, video sources, and display destinations are verified with customer, and the Philips Final Drawings are updated with the information.	Conduit worksheet documenting validation of electrician's run length measurements has been uploaded to PSA.	HVAC (Climate Equipment): Customer/Contractor has verified system is operational and balanced to meet humidity and temperature requirements per Philips Final Drawings.
Med Gas Box (if applicable): Location does not interfere with the installation and movement of the Philips equipment. The Philips Final Drawings are updated with the location.	Greenlee measuring tape (part no. 435 or equal) installed and validates run lengths.	Door Interlock Switch: If required, is installed per Philips Final Drawings.
Drawings (Final): Approved by Customer shows all room obstacles to include millwork, lighting overlay, structure overlay, medical gases and plumbing.	Mains Power Supply: Installed per Philips Final Drawings. (Including impedance,isolated grounds, wire size verified, and distribution unit has been installed).	Customer Site Preparation: Verified per Philips Final Drawings.
SITE PREP TO BE COMPLETED PRIOR TO FIRST MILESTONE DATE / REQUIRED PRIOR TO DELIVER	Back Boxes: Check label that the back boxes are manufactured by The DMG Group, Installed with required covers and grommet material per Philips Final Drawings. Specifically, the spacing between the boxes and height off of finished floor.	**PRE-DELIVERY DAY REQUIREMENTS**
GC Schedule aligns with Philips equipment delivery date. Permits and Inspections: completed by applicable governing authorities	Ceiling Plate for Equipment Rack (EP Boom) (if applicable): Installed and leveled per Philips Final Drawings.	3rd Party Booms (if applicable): Installed prior to Philips equipment delivery.
Performance Testing Requirements Identified: Determine if certificate of compliance is required	**REQUIRED 10 DAYS PRIOR TO FINAL PHILIPS INSPECTION**	Installation Team: Has received the room drawings and necessary contact phone numbers.
Existing Equipment: Is dismantled and removed from the site	Hospital Mains Supply: Allura R8.2 and Azurion, Installed per Philips Final Drawings, for connection in Cabinet Rear Cover (CRC) of MA-Cabinet.	Philips Project Space: Is clean, free of dust, all construction-related debris and tools have been removed.
REQUIRED 30 DAYS PRIOR TO FINAL PHILIPS INSPECTION	Hospital Mains Supply: For system versions prior to Allura R8.2 (in the USA), the hospital mains must be available for connection at the PDU or gssPDU, and then to MA & ME-Cabinets (by the electrician).	Site Is Safe To Work: PPE requirements identified (Construction and Hospital). No open mains, slippery floors, sharp edges, or hazardous goods on site.
Ceiling Unistruts (P1001 or engineer specified): Installed and leveled per Philips Final Drawings.	ERB Grounding Block: Installed within 6 feet or 150cm of building steel, and non-Philips-provided electrical equipment ground conductors, to include wall outlets installed per Philips Final Drawings.	Delivery Path and Truck Parking: Has been checked with the customer, including verifying floor loading, delivery route, elevator capacity, height, width and depth clearances, and a plan for bad weather.
Fixing Blocks: Provided by Philips, properly seat in the Unistrut channel with no obstructions, as designed.	ERB Grounding Block: All Philips-provided electrical boxes and contractor-provided raceway are bond grounded to the ERB.	Transport & Handling Tools: Crane, forklift, wheels and trolleys have been specified with the LMP/rigging company. NOTE: If rigging provided by Philips, verify the vendor is on the Philips' approved suppliers list.
Unistrut Height: Verified per Philips Final Drawings. Single plane measured from finished floor to bottom of Unistrut. For Bi-Plane, from Clea plate to bottom of Unistrut. Measurements have been documented and archived within PSA "Notes and Attachments".	Ceiling (False): Installed.	Site Access: Is available for after hours. Storage for tools, parts, covers and packing material has been arranged.
Unistrut is square to the edge of the floor plate(s).	Ceiling (Hard): Installed	Room Security: Room is secure, with keys and alarm codes provided
Unistrut validation workbook uploaded to PSC	Room Lighting: Installed and operational.	Parking: Parking area identified for installers.
Floor Plates: Patient support and stand (if applicable), are installed, isolated, and leveled, at the correct locations per Philips Final Drawings. For Biplane systems, the plates are spaced correctly and squared with each other.	Restricted ceiling area "A" is free from any objects that project below the finished ceiling.	Restroom Facilities: Toilet facilities, including area to wash up, are available.
Floor Levelness: Checked with laser level and is level per Philips Final Drawings.	Restricted ceiling Area "B" is free of any objects that project more than the specified maximum distance below the finished ceiling.	CPM has coordinated any ongoing work that will overlap with the installation window with the lead installer
Table Isocenter: Verified per Philips Final Drawings.	Ceiling Obstructions: Verify there are no obstructions where Philips rails will be installed.	Philips Field Pre-Job Safety Brief completed and posted on door.
Walls: Installed.	**REQUIRED 5 DAYS PRIOR TO FINAL PHILIPS INSPECTION**	**PRIOR TO PHILIPS SYSTEM POWER UP**
Sprinklers: Installed.	Lead-Lined Doors: Installed.	Wall Outlets: Installed and functional.
SP and TV J-Boxes: Located per Philips Final Drawings.	Lead-Sheilded Glass: Installed.	PRIOR TO INSTALL COMPLETE
CPM has updated PSC with facility IT contact information	Walls: Final finished, (i.e. final coat painted and/or tiled).	Physicist: If required, verify the Physicist has been scheduled.
Video Wall Boxes: Located per Philips Final Drawings	Hard Ceiling: Painted.	UPS: Commissioned and certified by UPS vendor.
HVAC (Climate Equipment): Installed.	Flooring: Installed and covered with protective covering (i.e. scratch protection).	X-Ray in Use or Warning Light: If required, is installed per Philips Final Drawings.

REQUIRED SITE READINESS - TABLE OF CONTENTS

(25.0)

	Items to be completed Prior to Equipment Delivery:	Inspected by:	Date:	Common Site Drawing Reference: Sheet/Section/Detail
	Table Iso Center: Verified per Philips Final Drawings.			1-A1,2-A1.
	Floor Levelness: Checked with Laser Level.			1-S1, S1/Equipment Support Information.
	Floor Plates: Installed, isolated, and leveled at the correct locations.			1-S1, 2-S1, 3-S1, S1/Equipment Support Information.
	Ceiling Unistruts (P1001): Installed and leveled per Sheet with written engineer certification.			2-S2, 4-S2, 6-S2, S2/Equipment Support Information.
	Modular Laminar Array with Unistruts (P1001) installed and level per sheet if Class 3 required.			4-S2, S2/Equipment Support Information.
	Ceiling Plate for Equipment Rack (EP Boom) (if applicable): Installed and leveled.			
	Cable Trough/Raceway/Conduit: A Greenlee measuring tape (part no. 435) are Installed, verified and locations checked.			E1/Point to Point Run Lengths, 1-E1,4-E1.
	3rd Party Booms (if applicable): Structural support installed and verified with boom vendor and locations.			
	Ceiling Height: Verified and measure from bottom of Unistrut.			3-S2, 4-S2.
	Verify the Fixing Blocks sits properly in the Unistrut channel with no obstructions.			4-S2,1-S2.
	Ceiling Obstructions: Verify there are no obstructions where Philips rails will be installed.			1-S2, 3-S2.
	Clearances: Verified to the closest obstacles (i.e. walls, cabinets), in order to lift up the C-arm, monitor support, etc.			1-AD1.
	Back Boxes: Installed with required covers and grommet material.			1-E1, 4-ED, 5-ED.
	ERB Conductor Bar Installed per drawing.			1-E1,2-E1.
	All electrical boxes and raceway are grounded to the ERB.			1-ED, 2-ED, 5-ED
	Mains Power Supply: Installed per drawing (Including impedance, isolated grounds, wire size and circuit breakers verified).			ED/Power Quality Requirements (Azurion), ED/Branch Circuit and Wire Gauge Requirement (Azurion).
	Mains Supply Wiring installed for connection in Cabinet Rear Cover (CRC) of MA-Cabinet.			5-ED
	Video Connection Boxes: video sources, and display destinations are verified with customer and located.			A1/AUX Chart.
	Med Gas Box (if applicable): Location does not interfere with the installation and movement of table.			3-S1
	Walls: Installed and final finished per customers architectural specifications.			
	Millwork: Completely installed in all rooms.			
	Leaded glass installed.			
	Flooring: Installed and covered with protective covering (1/8" masonite).			S1/Equipment Support Information.
	Lighting and Wall Outlets Installed and functional.			ED/General Electrical Information.
	HVAC system is operational and commissioned to engineered specifications.			GN/HVAC Requirement for General Equipment Locations.
	3rd Party Booms (if applicable): Installed prior to Philips equipment delivery.			
	UPS: Fully installed per Philips Final Drawings, and startup has been scheduled with vendor.			5-ED.
	X-Ray in Use Light is installed.			3-ED.
	Physicist: If required has been scheduled.			
	UPS: Commissioned and certified by UPS vendor.			
	Permits Inspections: Completed or scheduled by applicable governing authorities.			
	All network information provided by facility IT, i.e. IP addresses (static IPs only), AE Titles, SNM, GTWY and DNS server are available.			NN.
	Project Space: Is clean, free of dust, all construction-related debris and tools have been removed.			
	PPE requirements identified (Construction and Hospital). No open electrical or hazardous materials on site.			GN/Milestone and General Conditions for Successful IGT project.
	Site Access Is available for after hours. Storage for tools, parts, covers and packing material has been arranged.			
	Room is secure with keys provided.			
	Complete Delivery Path Route and backup for bad weather has been reviewed & reverfied with the customer and lead FSE.			

INSPECTIONS

(24.0)

	Inspected by:	Date:
Facilities:		
Clinical:		
Infectious Control:		
Architect:		
Engineer:		
Administrator:		
Project Manager:		
Sales Specialist:		
Account Manager:		
Service:		

AVO NAMING

Line Item	Corresponding Naming
FCV0972 (powered by system, in control room)	AVOC
FCV0973 (powered by system, in exam room)	AVOE
FCVO974 (powered by hospital)	AVOX
FCV0975 (4K AVO)	AVOK
FCV0976 (XL)	AVOL
Integration Kits	AVOB
FlexVision Non-Philips Frame	AVOM

PHILIPS

VA Medical Center
Gainesville
Gainesville, FL

PROVISIONAL

Drawing Title

GENERAL NOTES

Project

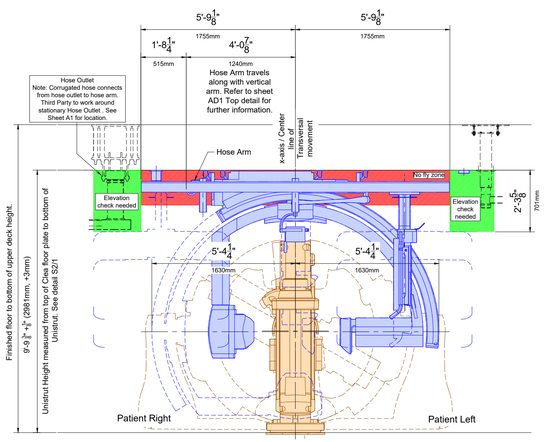
Azurion 7 B20/12 (Cardiac) - Swivel Catalyst
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
Email: alan.rooks@philips.com

Drawn By: Alison Baillargeon

Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/26/2025
Quote: Q-00552854
Order: 6600762648

GN



3 / A1 **ELEVATION** (Not Site Specific)

SCALE: 3/8" = 1' - 0"

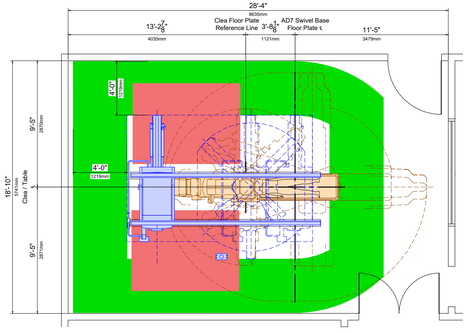
(24.0)

Legend

- Minimum FGI Area for Circulation Pathway
- Anesthesia Zone 6'x8' (1829mm x 2438mm)

Important Notes:

* FGI 2022 Appendix A1.2-1.2 was referenced to create general, non-site-specific guideline diagrams for planning purposes.
* It is the customer's architect's responsibility to verify the guidelines and determine the best fit for the system. Final validation is up to the architect of record, as states may use different versions of the codes or interpret them differently.



4 / A1 **FGI GUIDELINES CLASS 2** (Not Site Specific)(If Applicable)

SCALE: 3/16" = 1' - 0"

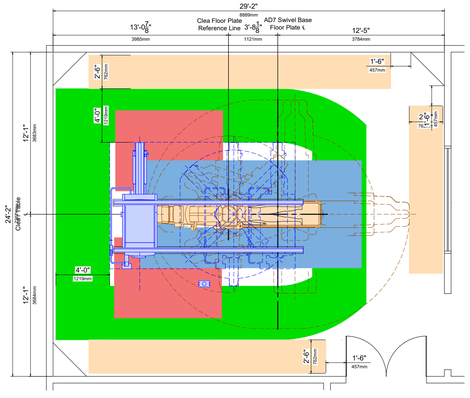
(24.0)

Legend

- Minimum FGI Area for Movable Equipment
- Minimum FGI Area for Circulation Pathway
- Anesthesia Zone 6'x8' (1829mm x 2438mm)
- Sterile Field 8'x16' (2438mm x 4877mm)

Important Notes:

* FGI 2022 Appendix A1.2-1.2 was referenced to create general, non-site-specific guideline diagrams for planning purposes.
* It is the customer's architect's responsibility to verify the guidelines and determine the best fit for the system. Final validation is up to the architect of record, as states may use different versions of the codes or interpret them differently.



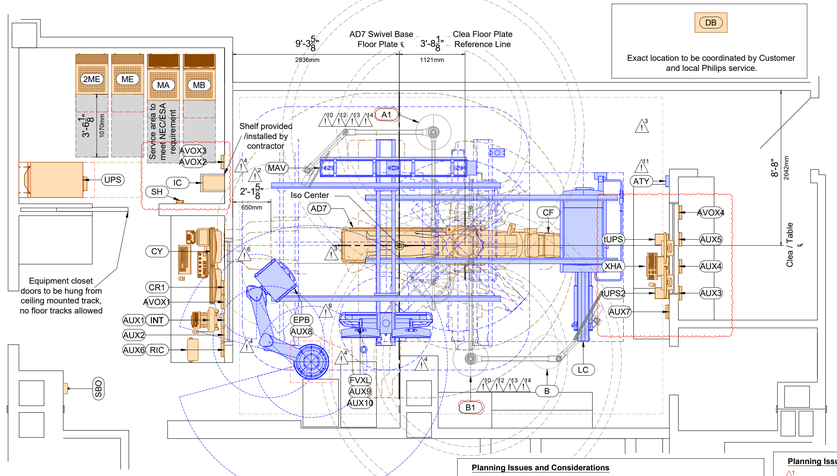
5 / A1 **FGI GUIDELINES CLASS 3** (Not Site Specific)(If Applicable)

SCALE: 3/16" = 1' - 0"

(24.0)

Legend

- Table Movement
- Ceiling Equipment Movement
- Table Pinch Hazard
- Service Area
- Required Ventilation



2 / A1 **EQUIPMENT LAYOUT**

SCALE: 1/4" = 1' - 0"

Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.

Planning Issues and Considerations

/8 Verify exact location and configuration of existing floor plate, Unistrut, and electricals with local Philips service for reuse.

/9 Relocate endstops on the Monitor Suspension to avoid collision with the EP Power Boom. {Maximum overhang = 5 7/8" (150mm)}

/10 Third Party Items - It is the customer's responsibility to interface and coordinate all non-Philips' item(s) / equipment to ensure full functionality and movement of all equipment.

/11 Conduit run(s) from MA to ATY must be able to take the most direct route. (Maximum distance point to point = 47')

/12 Boom locations match Stryker locations. Draeger to update plans. Final boom placement to be discussed between customer and 3rd Party Vendor. Boom B1 moved 8" plan east to avoid collision with column and Boom A1 moved 1" plan north per request.

/13 Third Party Items - Boom Vendor to provide elevations to check for collision free operation.

/14 Booms A1 & B1 boom cover can not exceed 5 1/2" to avoid collision with MCS.

General Notes

* Exact equipment configuration to be verified. Due to Swivel plate opening size, INT to MSA and IC to MSA cannot be run to the same location. INT is routed to EP Boom.

Planning Issues and Considerations

/1 Exact equipment configuration to be verified.
- Prep table for Volcano comes in bundle with the table, but it's not shown as injector is going to be routed to table.
- Socomec Seismic Compact Low Load UPS is listed on the order, but Non-Seismic Socomec Compact Low Load UPS is shown.
- Philips Xper Hemo App shown per request, OA number for Hemo to be provided for Final Site Support Document.

/2 A minimum of 3'-0" (915mm) clear distance is recommended around the foot end of the AD7 table when fully extended to ensure adequate space for staff flow.

/3 Patient loading may be difficult. Verify with customer requirement.

/4 Potential collision of equipment with noted door / wall.

/5 Verify quantity and designation of Video Cloning with local Philips Service.

/6 View of patient may be limited. Verify with customer requirement.

/7 Room background was gathered from past drawing #: N-SOU070960 dated 2/24/2010 as reference. Existing conditions such as room dimensions, isocenter, Unistrut, soffit, built-ins etc. to be verified by the customer/contractor before proceeding to Final.

Important Notes:

* Architect to coordinate with end users/technicians to determine final placement of control desk components prior to installation in order to avoid rework. Architect to coordinate with Philips Project Manager to reflect final placement on Philips drawings.
* Table is shown fully extended toward the head-end. Table can float toward the foot-end 3'-11 1/2" (1200mm).

	Source	Location	Displayed
AUX1	INT	Control	FlexVision
AUX2	TBD	Control	FlexVision
AUX3	XHA	Exam	FlexVision
AUX4	XHA	Exam	FlexVision
AUX5	XHA	Exam	FlexVision
AUX6	TBD	Control	FlexVision
AUX7	TBD	Exam	FlexVision
AUX8	TBD	Exam	FlexVision
AUX9	TBD	Exam	FlexVision
AUX10	TBD	Exam	FlexVision

	Source	Location	Displayed
AVOX1	MB	Control	TBD
AVOX2	MB	Equipment	TBD
AVOX3	MB	Equipment	TBD
AVOX4	MB	Exam	TBD

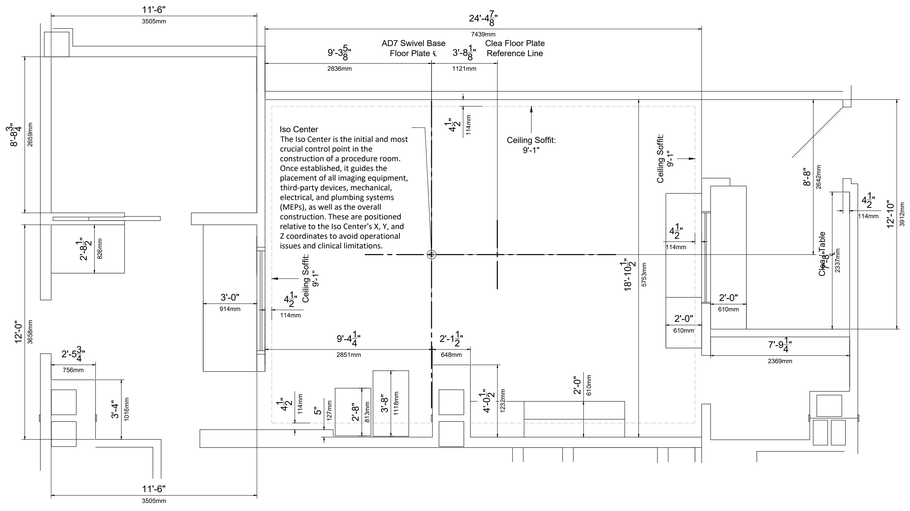
Equipment Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional
H Existing to be Moved
I Furnished by Philips and installed by Philips 3rd Party

	Equipment Designation	Description	Detail Sheet Weight (lbs)	Weight (kg)	
A	CF	Clea Floor	2557	1160	AD1
A	LC	Larc C Cardiac	1841	835	AD1
A	AD7	Angio Diagnost 7 Premium Tilt & Swivel Table (Swivel, Tilt and Cradle)	1249	567	AD1
A	ME	Certeray iX Generator Cabinet	320	145	AD1
A	2ME	Certeray iX Generator Cabinet	320	145	AD1
A	MA	Mains 40E Cabinet	717	325	AD1
A	MB	Image 40E Cabinet	497	225	AD1
A	DB	Documentation Box - Mounted on Wheels (Final location to be coordinated with customer and/or local Philips Service)	176	80	AD1
A	ATY	Exam Room Auxiliary Box	7	3	AD1
A	CY	Control Room Junction Box	86	39	AD2
A	SH	Service Hub	7	3	AD2
A	CR1	Control Room Equipment Adapter	4	2	AD2
A	FVXL	58" FlexVision XL + (2) 27" LCD Monitor Suspension	607	276	AD1
A	AUX1	Auxiliary Equipment Adapter	4	2	AD2
~		~			
A	AUX10	Auxiliary Equipment Adapter	4	2	AD2
A	AVOX1	Auxiliary Video Output	4	2	AD2
~		~			
A	AVOX4	Auxiliary Video Output	4	2	AD2
A	IH	Interventional Hardware (Integrated with FlexSpot - Not shown)	73	33	-
A	INT	IntraSight- Workstation (Integrated with FlexSpot)	83	38	AD2
A	IC	Injector Room Console	11	4.9	AD2
A	RIC	Injector Remote Panel	7	3	AD2
A	INJ	Medrad Universal T-Rail Bracket for Injector Head (Not shown on plan)	-	-	-
A	MAV	Mavig 2.5m Ceiling Track 360 w/ Rad Shield and Y LED 1F Surgical Light	167	76	AD2
A	EPB	Equipment Rack DVI (EP Power Boom)-(Including Accessories) with Round Plate	865	393	AD2
		Items not on Philips Quote/Order			
B	A1	Draeger Boom	-	-	-
B	B1	Draeger Boom	-	-	-
E	B	Berchtold Teletom Boom	-	-	-
D	UPS	Socomec - Low Load Fluoro (LLF) UPS	1873	850	AD2
D	SBO	Signaling Box Option	6.7	3	AD2
A	XHA	Xper Hemo App	84	38	AD2
A	tUPS	Tripp Lite UPS	45.2	20.5	AD2
A	UPS2	Tripp Lite UPS 2	45.2	20.5	AD2
A	IX3	Intellivue X3 Device (to be table mounted; not shown on plan)	-	-	AD2

Legend

- Walls
- Soffit
- Existing (to be removed)
- Beams or other building construction elements



1 / A1 **SITE LAYOUT**

SCALE: 1/4" = 1' - 0"

Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.

Important Notes:

* Field to verify all room dimensions by customer and Philips

PHILIPS

VA Medical Center
Gainesville
Gainesville, FL

PROVISIONAL

ARCHITECTURAL PLANS

THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Drawing Title

Project
Azurion 7 B20/12 (Cardiac) - Swivel Catalyst
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts

Project Manager: Alan Rooks
Contact Number: (904) 510-1874
Email: alan.rooks@philips.com

Drawn By: Alison Baillargeon

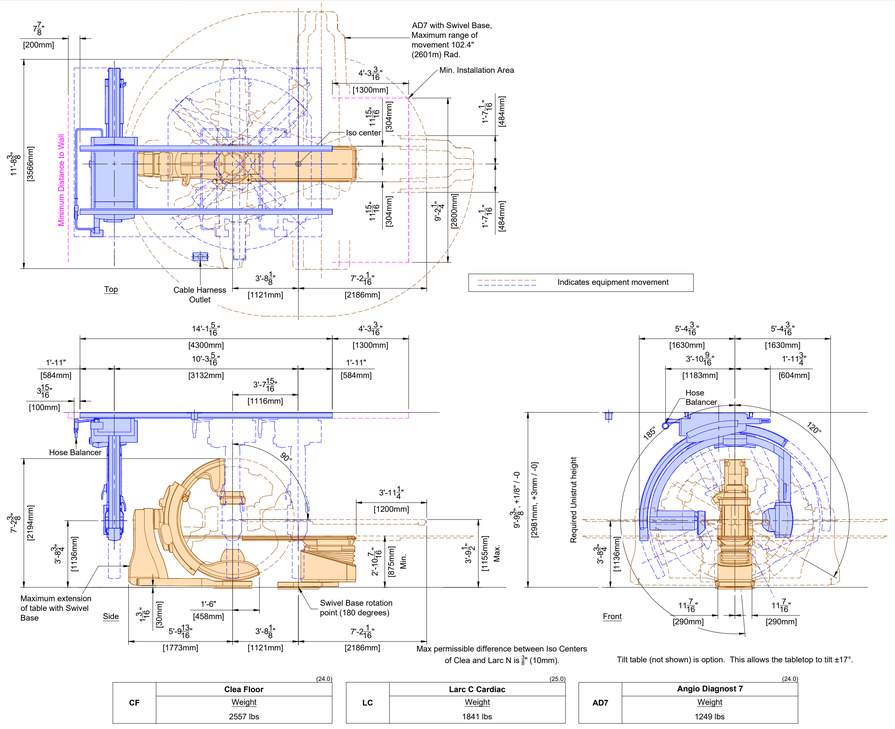
Project Details

Drawing Number
N-SOU250567_RevC
Date Drawn: 8/26/2025
Quote: Q-00552854
Order: 6600762648

A1

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

03.31.2025

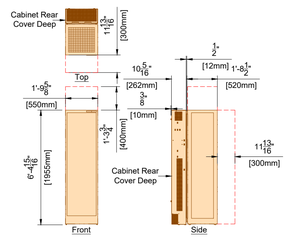


CF	Clea Floor (24.0)
	Weight
	2557 lbs

LC	Larc C Cardiac (25.0)
	Weight
	1841 lbs

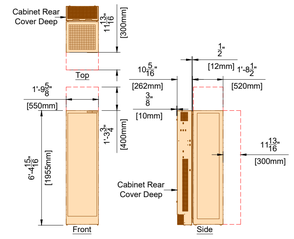
AD7	Anglio Diagnost 7 (24.0)
	Weight
	1249 lbs

1 AD1 SYSTEM DETAIL
SCALE: N.T.S.



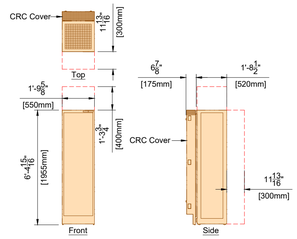
MA	Mains 40E Cabinet (24.0)
	Weight
	717 lbs

Notes:
- Required ventilation for the front - 11¾" (300mm)
- Required ventilation for the top - 1'-3¾" (400mm)
- The CRC Cover must be attached to the back box.
- Acoustic noise level: <= 55 dB(A) @ 1 meter in front of the rack and 1 meter high (1 meter = 39.37")



MB	Image 40E Cabinet (24.0)
	Weight
	497 lbs

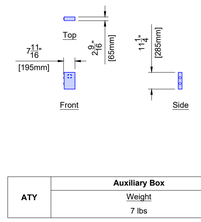
Notes:
- Required ventilation for the front - 11¾" (300mm)
- Required ventilation for the top - 1'-3¾" (400mm)
- The CRC Cover must be attached to the back box.
- Acoustic noise level: <= 48 dB(A) @ 1 meter in front of the rack and 1 meter high (1 meter = 39.37")



ME 2ME	Certeray iX Generator 40E Cabinet (24.0)
	Weight
	320 lbs

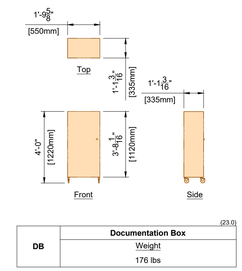
Notes:
- Required ventilation for the front - 11¾" (300mm)
- Required ventilation for the top - 1'-3¾" (400mm)
- The CRC Cover must be attached to the back box.
- Acoustic noise level: <= 55 dB(A) @ 1 meter in front of the rack and 1 meter high (1 meter = 39.37")

2 AD1 SYSTEM CABINET DETAILS
SCALE: N.T.S.



ATY	Auxiliary Box (23.0)
	Weight
	7 lbs

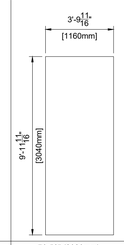
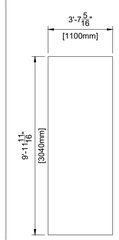
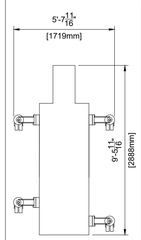
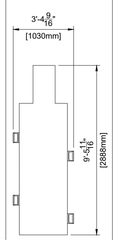
3 AD1 AUXILIARY BOX DETAIL
SCALE: N.T.S.



DB	Documentation Box (23.0)
	Weight
	176 lbs

4 AD1 DOCUMENTATION BOX DETAIL
SCALE: N.T.S.

Detail - Clea Floor Transport Details

Transport Possibilities				
	Crate	Pallet	Clickwheels Wide	Castors
				
Height	79.53" (2020mm)	78.54" (1995mm)	69.65" (1769mm)	72.40" (1839mm)
Weight	3285 lbs (1490 kg)	3064 lbs (1390 kg)	3241 lbs (1470 kg)	2954 lbs (1340 kg)

Minimum Elevator Size	
Length	90.55" (2300mm)
Width	51.18" (1300mm)
Height	85.03" (2160mm)

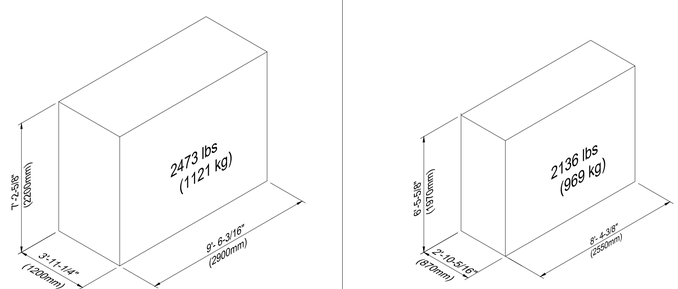
Note:
Minimum length of CLEA Floor is 114" (2888 mm). If CLEA Floor does not fit in elevator, length can be reduced by rotating C-Arc. Minimum length is 91" (2300 mm).

Procedure to rotate C-Arc requires "Clea-F install kit for small elevator" 4598.017.86291. Tool can be ordered via spare parts channel.

(23.0)

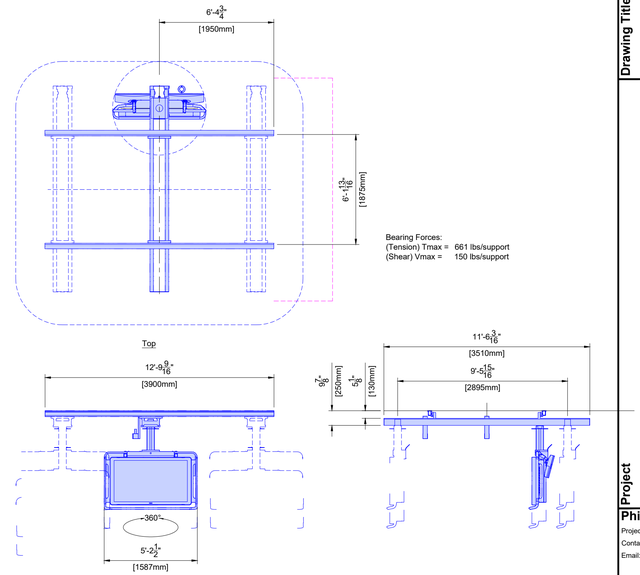
5 AD1 TRANSPORT DETAILS - CLEA FLOOR
SCALE: N.T.S.

Transport Possibilities		
	Including Crate	Without Crate
Length	114.17" (2900mm)	100.40" (2550mm)
Width	47.24" (1200mm)	34.25" (870mm)
Height	86.61" (2200mm)	77.56" (1970mm)
Weight	2473 lbs (1121 kg)	2136 lbs (969 kg)



(24.0)

6 AD1 TRANSPORT DETAILS - LATERAL ARC N
SCALE: N.T.S.



FVXL	58" + (2) 27" LCD Monitor Suspension (24.0)
	Weight
	607 lbs

7 AD1 MONITOR SUSPENSION DETAIL
SCALE: N.T.S.

PHILIPS

VA Medical Center
Gainesville
Gainesville, FL

PROVISIONAL

Drawing Title

EQUIPMENT DETAILS

Project

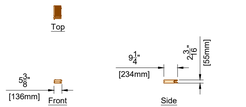
Azurion 7 B20/12 (Cardiac) - Swivel Catalyst
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
Email: alan.rooks@philips.com

Drawn By: Alison Baillargeon

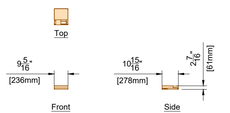
Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/26/2025
Quote: Q-00552854
Order: 6600762648

AD1



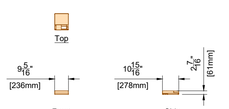
SH	Service Hub (23.0)
	Weight
	7 lbs

1 AD2 SERVICE HUB
SCALE: N.T.S.



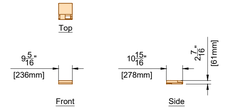
CR1	Control Room Equipment Adapter (23.0)
	Weight
	4 lbs

2 AD2 CONTROL ROOM EQUIPMENT ADAPTER
SCALE: N.T.S.



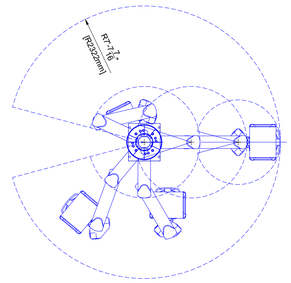
AUX1 ~ AUX10	Auxiliary Equipment Adapter (24.0)
	Weight
	4 lbs

3 AD2 AUXILIARY EQUIPMENT ADAPTER
SCALE: N.T.S.

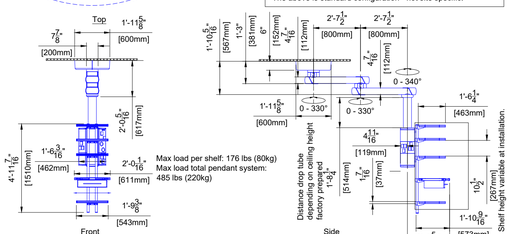


AVOX1 ~ AVOX4	Auxiliary Video Output (24.1)
	Weight
	4 lbs

4 AD2 AUXILIARY VIDEO OUTPUT DETAIL
SCALE: N.T.S.



Required items	Configuration: Stand-alone Version
Video Connection Box mounting and Video Connection Box-TX cabling	Present
Flexible conduit with guide wire	Present
Number of shelves	5
Number of drawers	1
Cable management accesories: 2 rails, 8 hooks	Present
Number of Infusion bottle holder (T-pole)	1
Number of extension arms with VESA 100 monitor interface	1
Number of power outlets	4 standard and 4 emergency
Number of Ethernet network outlets	1
Note: This does not include the Video Connection Box itself, only a mechanical solution to mount a Video Connection Box. For details, consult the Sales Department.	
*The above is standard configuration - not site specific.	



Max load per shelf: 176 lbs (80kg)
Max load total pendant system: 485 lbs (220kg)

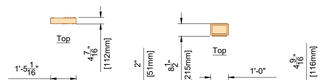
MED-Gas
1. The EP Boom comes with option MED-Gas outlets for customer convenience. Connection and interfacing of the MED-Gas to the EP Power Boom is the contractor's responsibility.
2. Standard configuration listed below. Other configurations may be possible. Contact Philips Project Manager for information.
   - 4 is standard and 8 is maximum in any configuration: Vacuum, N2O, Oxygen (or NO gases), WAGD
   -Chemetron, DISS, Puritan Bennett, or Ohmeda fitting type
   -4 standard power duplex outlets
   -4 emergency power duplex outlets
   -MAX total of 12 standard or emergency power duplexes of any combination
   -2 network ports (2 minimum and 8 maximum)
   -1 conduit in rack for 3rd party cabling (with 4 optional 1xG23 (22mm) and up to 4 max but not recommended to have more than 3 since went up to G23 from G17)
3. Equipment rack configuration must be confirmed by customer with Philips Project Manager prior to system entering production.
4. Once production starts, it is not possible to change the configuration of the equipment rack.

Delivery in Crate
86" (2185mm) L x 34" (864mm) W x 67" (1702mm) H
Weight = 865 lbs (393 kg)

EPB	Equipment Rack DVI (EP Power Boom) (25.0)
	Weight
	865 lbs (393 kg)

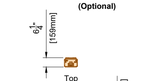
Weight includes:
-Pre-installation ceiling frame 309 lbs (141 kg)
-Equipment Rack 389 lbs (177 kg)
-Accessories max. 167 lbs (76 kg)

5 AD2 EQUIPMENT RACK DVI (EP BOOM) DETAIL
SCALE: N.T.S.



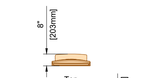
Multiswitch (Optional)

Touch Screen Module (Optional)

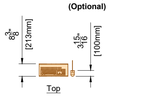


Review Module

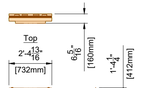
DVD Writer (Optional)



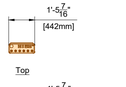
LCD Monitor



Keyboard / Mouse



Junction Box
(See SD for mounting options)

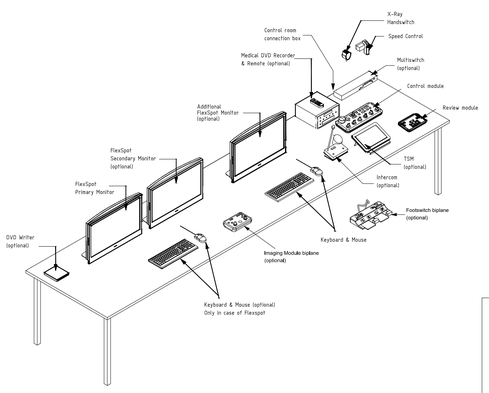


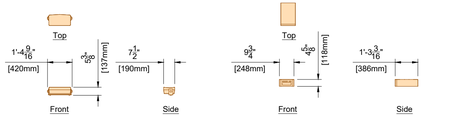
Control Module

CY	Control Room Junction Box (All Components) (24.1)
	Weight
	86 lbs

6 AD2 CONTROL ROOM JUNCTION BOX DETAIL
SCALE: N.T.S.

Detail - Typical Control Room Layout with FlexSpot
(Not to scale - Not site specific)

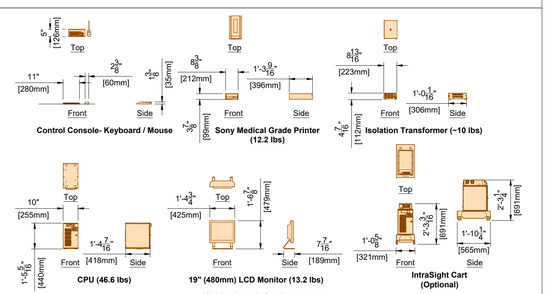




RIC	Injector Remote Panel (24.0)
	Weight
	7 lbs

IC	Injector Room Console (24.0)
	Weight
	11 lbs

7 AD2 TABLE MOUNTED INJECTOR, REMOTE PANEL AND CONSOLE
SCALE: N.T.S.

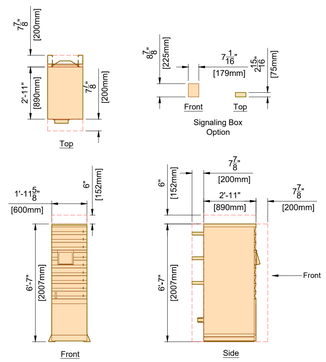


Control Console- Keyboard / Mouse
Sony Medical Grade Printer (12.2 lbs)
Isolation Transformer (~10 lbs)
CPU (46.6 lbs)
19" (480mm) LCD Monitor (13.2 lbs)
IntraSight Cart (Optional)

Weight shown is for all components.

INT	IntraSight - Workstation (24.0)
	Weight
	83 lbs

8 AD2 INTRASIGHT - WORKSTATION DETAIL
SCALE: N.T.S.



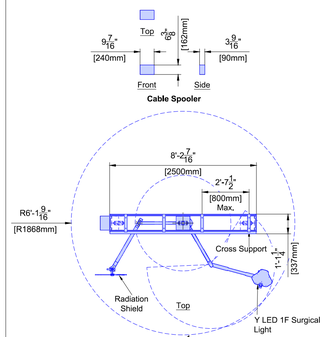
Signaling Box Option

UPS Cabinet

	Socomec - Low Load Fluoro (LLF) UPS (22.1)	
	Weight	Heat Dissipation
UPS	1873 lbs	8750 BTU/hr
SBO	6.7 lbs	- BTU/hr

Notes:
- Required ventilation for the front - 7 7/8" (200mm)
- Required ventilation for the rear - 7 7/8" (200mm)
- Required ventilation for the top - 6" (155mm)
- Acoustic noise level: <= 58 dB(A) @ 1 meter in front of the rack and 1 meter high (1 meter = 39.37")

9 AD2 SOCOMEC LLF UPS DETAIL
SCALE: N.T.S.



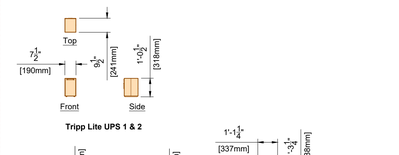
Cable Spooler

Detail - Cross Support
(Not to scale)

Bearing Forces:
(Tension) Tmax = 908 lbs/support
(Shear) Vmax = 38 lbs/support

MAV	Mavig 2.5m Ceiling Track 360 w/ Radiation Shield and Y LED 1F light (25.0)
	Weight
	167 lbs

10 AD2 MAVIG 2.5m CEILING TRACK DETAIL
SCALE: N.T.S.



XHA	Xper Hemo App (25.0)
	Weight
	84 lbs

tUPS tUPS2	Tripp Lite UPS
	Weight
	96.2 lbs

IX3	Intellivue X3
	Weight
	- lbs

11 AD2 XPER HEMO APP
SCALE: N.T.S.

Drawing Title
EQUIPMENT DETAILS

PHILIPS

VA Medical Center
Gainesville
Gainesville, FL

PROVISIONAL

Project
Azurion 7 B20/12 (Cardiac) - Swivel Catalyst
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
Email: alan.rooks@philips.com

Drawn By: Alison Baillargeon

Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/26/2025
Quote: Q-00552854
Order: 6600762648

AD2

03.31.2025

Equipment Support Information

1. General
The customer shall be solely responsible, at its expense, for preparation of the site, including any required structural alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and building codes. The customer shall be solely responsible for obtaining all construction permits from jurisdictional authority.

Customer's structural engineer shall provide Philips with written certification that structural supports meet Philips requirements to permit delivery and installation of equipment. Upon completion of project, Customer's Architect and Engineers of record shall provide a set of As-Built project construction documents (dwg) to Philips for closure of the Philips project history file.

2. Equipment Anchorage
Philips provides, with this plan and specifications, information relative to equipment size, weight, shape, anchoring hole locations and forces which may be exerted on anchoring fasteners. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of equipment anchoring to floors, wall and/or ceiling of the building. Any anchorage test required by local authority shall be the customer's responsibility. Stud type anchor bolts should not be specified as they hinder equipment removal for service. Consult with Philips service prior to specifying anchor methods. Philips equipment must be electrically isolated from anchorage.

3. Floor Loading and Surface
Philips provides, with this plan and specifications, information relative to size, weight and shape of floor mounted equipment. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings confirmation of the structural adequacy of the floor upon which the equipment will be placed. Any load test required by local authority, shall be the customer's responsibility.
The floor surface/base plates upon which Philips equipment is to be located shall be flat and level to within 0.05 degrees.

4. Seismic Anchorage (For Seismic Zones Only)
All seismic anchorage hardware, including brackets, backing plates, bolts, etc., shall be supplied and installed by the customer/contractor unless otherwise specified within the support legend on this sheet. Installation of electronic cabinets to meet seismic anchorage requirements must be accomplished using flush mounted expansion type anchor/bolt systems to facilitate the removal of a cabinet for maintenance. Do not use threaded rod/adhesive anchor systems. Philips equipment must be electrically isolated from anchorage. Seismic anchoring information and planning modifications are available upon request. Architect of Record to determine seismic planning needed for site. Consult with Philips regarding any anchor system issues.

5. Floor Obstructions/ Floor Coverings
There shall be no obstructions on the floor (sliding door tracks, etc.) within the serviceability area of the Philips technical cabinets. Floor must be clear to allow cabinets to be pulled away from the wall for service. Technical equipment room floor shall be commercial grade "VCT" Vinyl Composition Tile or a flooring material of equal hardness and compression resistance.

(25.0)

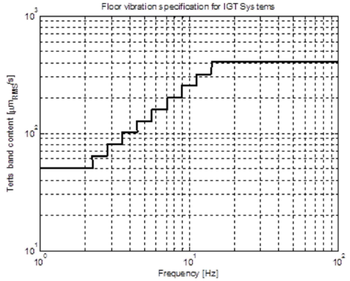
Equipment Support Information

11. Requirements for External Vibration
The maximum allowed external vibration level of floors and ceilings, to which the equipment is mounted that will not adversely affect the image quality, is specified in terms of RMS velocity levels in 1/3-octave or terts bands, as follows:

Center frequency [Hz]	1	1.25	1.6	2	2.5	3.15	4	5	6.3	8
Terts band value [µm/s] (RMS)	50.8	50.8	50.8	50.8	63.5	80.01	101.6	127	160	203.2
Center frequency [Hz]	10	12.5	16	20	25	31.5	40	50	63	80
Terts band value [µm/s] (RMS)	254	317.5	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4
Center frequency [Hz]	100	125	160	200						
Terts band value [µm/s] (RMS)	406.4	406.4	406.4	406.4						

Terts Band Specification for External Vibrations

A graphical representation of this specification is given below:



Terts Band Specification for External Vibrations

Terts band spectra shall be calculated on the basis of time traces with a duration of 10 minutes (600 seconds), taken at representative locations and during representative times during working days.

(23.1)

Important Notes:
1. Anchors for items that are installed/anchored by customer/contractor shall be provided by customer/contractor.
2. Anchors for items that are installed/anchored by Philips shall be provided by Philips. If customer's engineering documents specify anchors other than those listed in this document, the anchors shall be provided by customer/contractor and installed by Philips.
3. In all instances, the wall and/or floor support are the sole responsibility of the customer/contractor. The customer's architect/engineer of record shall specify wall and/or floor support sufficient for the bolt forces shown on the details.

Floor & Wall Support Legend

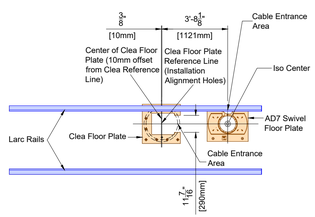
A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional
H Furnished by Philips and installed by Third Party

	Item Number	Description	Detail Sheet
D	AD7	AD7 Swivel Floor Plate	S1/3
D	CF	Floor Clea Floor Plate	S1/5
B	SH	Service Hub	SD/3

Important Notes:

* The Iso Center is the initial and most crucial control point in the construction of a procedure room. Once established, it guides the placement of all imaging equipment, third-party devices, mechanical, electrical, and plumbing systems (MEPs), as well as the overall construction. These are positioned relative to the Iso Center's X, Y, and Z coordinates to avoid operational issues and clinical limitations.

Detail - Floor Structural Azurion 7 B20/12, B20/15 - Swivel



Floor plates supplied by Philips / installed by contractor.

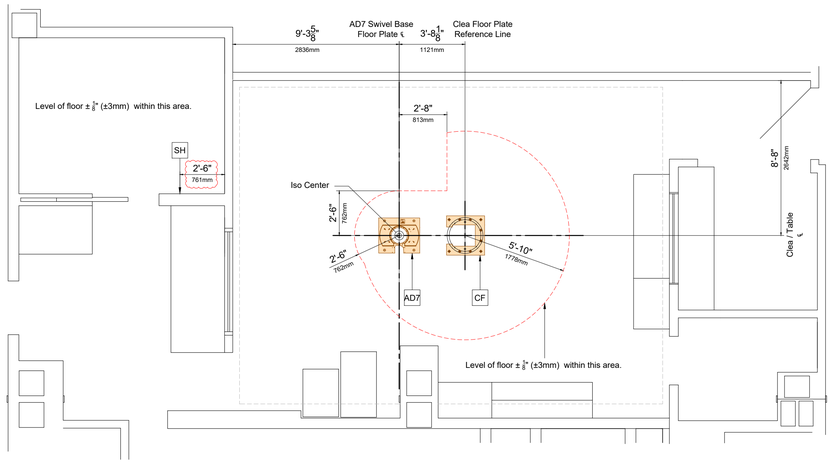
Clea Floor
Floor Plate to Floor Bolt Forces:
(Tension) Tmax = 2666 lbs/bolt
(Shear) Vmax = 892 lbs/bolt

AD7 Swivel Table
Floor Plate to Floor Bolt Forces:
(Tension) Tmax = 2332 lbs/bolt
(Shear) Vmax = 1164 lbs/bolt

Azurion 7 B20/12, B20/15 - Swivel Structural Detail

2 / S1 SCALE: N.T.S.

(24.0)

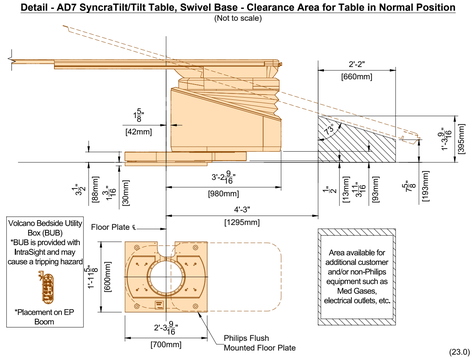


FLOOR & WALL SUPPORT LAYOUT

1 / S1 SCALE: 1/4" = 1'-0"

Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.

Detail - AD7 SyncraTilt/Tilt Table, Swivel Base - Clearance Area for Table in Normal Position
(Not to scale)



(23.0)

AD7 SWIVEL PLATE - TABLE CLEARANCE DETAIL

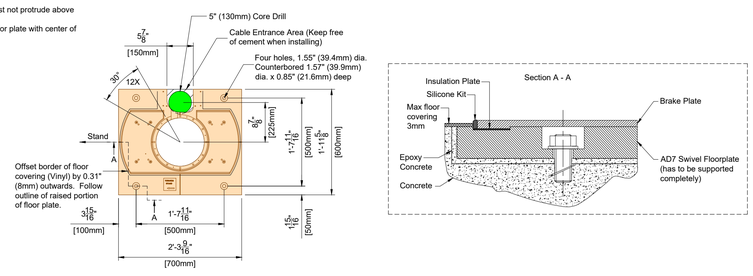
3 / S1 SCALE: N.T.S.

Detail - AD7 Swivel Floor Plate - Notes for Installation
(Not to scale)

1. 1.18" (30mm) thick floor plate, flush mounted with top of slab.
2. Level within 1/32" (1mm) per 39" (1m) across surface of plate.
3. Anchor bolts with washer must not protrude above surface of floor plate.
4. Align center of AD7 swivel floor plate with center of Clea floor plate.

Floor plate mounting to the building:
In case threaded rods are used and the nut protrudes above the floor plate surface, DO NOT GRIND DOWN THE NUT, but follow the procedure stated below to ensure the nut is flush with the floor plate surface.

1. Use Jam nuts M16 (h=8.0mm) or (h=9.5mm)
2. Use only 1 washer.
3. Use loctite 243 instead of a lock washer.
4. Torque value to be determined by structural engineer of record.



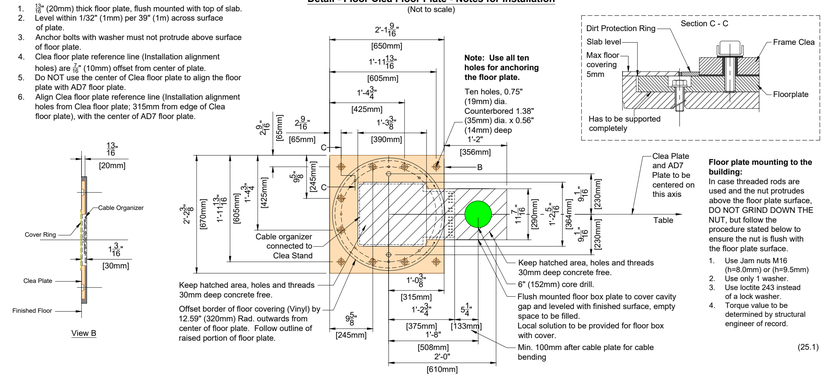
(25.0)

AD7 SWIVEL PLATE - FLUSH MOUNT INSTALLATION DETAIL

4 / S1 SCALE: N.T.S.

Detail - Floor Clea Floor Plate - Notes for Installation
(Not to scale)

1. 13/16" (20mm) thick floor plate, flush mounted with top of slab.
2. Level within 1/32" (1mm) per 39" (1m) across surface of plate.
3. Anchor bolts with washer must not protrude above surface of floor plate.
4. Clea floor plate reference line (Installation alignment holes) are 1/8" (10mm) offset from center of plate. Do NOT use the center of Clea floor plate to align the floor plate with AD7 floor plate.
5. Align Clea floor plate reference line (Installation alignment holes from Clea floor plate; 315mm from edge of Clea floor plate), with the center of AD7 floor plate.



(25.1)

CLEA FLOOR - INSTALLATION DETAIL

5 / S1 SCALE: N.T.S.

PHILIPS

VA Medical Center
Gainesville
Gainesville, FL

PROVISIONAL

Drawing Title

STRUCTURAL PLANS

THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Project

Azurion 7 B20/12 (Cardiac) - Swivel Catalyst
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
Email: alan.rooks@philips.com

Drawn By: Alison Baillargeon

Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/26/2025
Quote: Q-00552854
Order: 6600762648

S1

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

03.31.2025

Equipment Support Information

1. General
The customer shall be solely responsible, at its expense, for preparation of the site, including any required structural alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and building codes. The customer shall be solely responsible for obtaining all construction permits from jurisdictional authority.

Customer's structural engineer shall provide Philips with written certification that structural supports meet Philips requirements to permit delivery and installation of equipment. Upon completion of project, Customer's Architect and Engineers of record shall provide a set of As-Built project construction documents (.dwg) to Philips for closure of the Philips project history file.

2. Equipment Anchorage
Philips provides, with this plan and specifications, information relative to equipment size, weight, shape, anchoring hole locations and forces which may be exerted on anchoring fasteners. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of equipment anchoring to floors, wall and/or ceiling of the building. Any anchorage test required by local authority shall be the customer's responsibility. Stud type anchor bolts should not be specified as they hinder equipment removal for service. Consult with Philips service prior to specifying anchor methods. Philips equipment must be electrically isolated from anchorage.

3. Ceiling Support Apparatus
a. Philips provides, with this plan and specifications, information relative to size, weight and shape of ceiling supported equipment. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of structural support apparatus, fasteners and anchorage to which Philips will attach equipment. Any anchorage and/or load test required by local authority shall be the customer's responsibility. Philips equipment must be electrically isolated from anchorage.

b. Contractor to clearly mark Philips equipment longitudinal centerline on bottom of each Unistrut support.

c. The structural Unistrut surface to which Philips equipment is to be attached, shall have horizontal equipment attachment surfaces parallel, square and level to within .236" (6mm) per entire span.

d. Any drilling and/or tapping of holes required to attach Philips equipment to the structural support apparatus shall be the responsibility of the customer.

4. Lighting
Luminaires shall be placed in such a position that they are not obscured by equipment or its movement, nor shall they interfere with Philips ceiling rails and equipment movement or otherwise adversely affect the equipment. Such luminaire locations shall be the sole responsibility of the customer.

5. Ceiling Obstructions
There shall be no obstructions that project below the finished ceiling in the area covered by ceiling suspended equipment travel. See detail 1/S2.

6. Safety Factors
Ceiling loads as mentioned in the PRD are worst case loads and excluding safety factors. Proper safety factors need to be applied by Design Professional/Engineer of Record. (24.0)

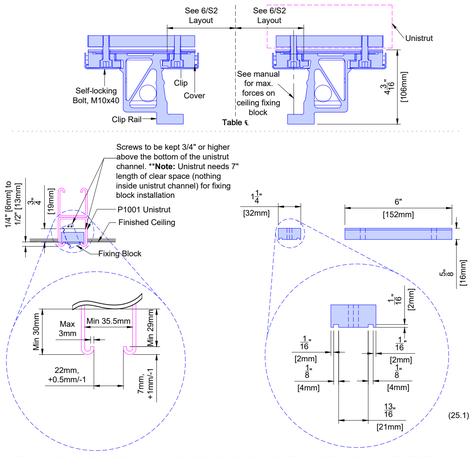
Detail - Philips Fixing Block for Philips Ceiling Rails (Clip Rails)
(Not to scale)

General Requirements:
1. Philips does not specify the overhead equipment support structure. Unistrut may or may not be used. If Unistrut are used, it is up to Unistrut and the structural engineer for the project to determine which of its products are appropriate for each project.
2. P1001 Unistrut is specified for the ceiling rail connection point.

Finished Ceiling Requirements:
1. Finished ceiling height shall be $\frac{1}{4}$" (6mm) to $\frac{1}{2}$" (13mm) above bottom of Unistrut.

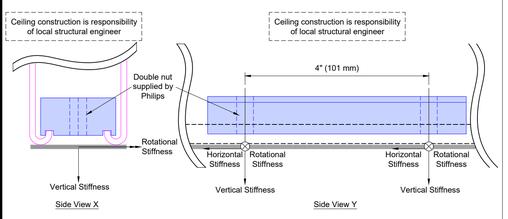
Fixing Block Installation Requirements:
1. Nothing shall be attached to the Unistrut with any fastener that protrudes into the Unistrut which would interfere with positioning of the fixing block.
2. Fixing blocks for Philips ceiling rails (Clip rails) are designed to be installed in P1001Unistrut.
3. The inside of the Unistrut must be clear of obstructions.

Unistrut Requirements:
1. Welding Unistrut may warp Unistrut and deteriorate the structural integrity of the Unistrut. Consult the Structural Engineer of Record prior to welding any Unistrut.
2. If third-party structural laminar modular array vendors are to be used, please contact site planning.
3. For third-party structural laminar modular array vendors, the minimum rail fixing block Unistrut length must be 7-5/8" (194mm).



(25.1)

4/S2 CLIP RAIL CROSS SECTION DETAIL
SCALE: N.T.S.



Stiffness Requirements of Ceiling:
1. Horizontal Stiffness: preferred 10,000,000 Newton/meter - 57.1 klb/in, minimal 6,000,000 Newton/meter - 34.2 klb/in
2. Vertical Stiffness: preferred 10,000,000 Newton/meter - 57.1 klb/in, minimal 6,000,000 Newton/meter - 34.2 klb/in
3. Rotation Stiffness: minimal 100,000 Newtonmeter/Rad - 885 (klb in)/Rad
4. Ceiling interface stiffness requirements at each ceiling connection point

For Clea Stand (1160 kg or 11600 N): the maximum allowed deflection of the ceiling and/or floor construction is 1.93 mm.
For Larc Stand (835 kg or 8350 N): the maximum allowed deflection of the ceiling construction is 1.39 mm.

(25.0)

5/S2 CLIP RAIL STIFFNESS DETAIL
SCALE: N.T.S.

Ceiling Support Legend

		Description	
A	LR	2 - Philips Larc C Cardiac Rails	S2
A	MSR	2 - Philips Monitor Equipment Rails	S2
E	UNI	Unistrut (P1000/P1001 in meeting Philips ceiling requirements, geometry of channel and geometry of fixing block) - Bottom of Unistrut 1/4" (6mm) to 1/2" (13mm) Below Finished Ceiling	S2
A	MAV	Mavig 2.5m Ceiling Track 360	AD2
D	EPB	Equipment Rack DVI (EP Power Boom) Ceiling Plate and Interface Plate	SD
B	AO	Additional Opening on Finished Ceiling - Required for Installation of the Boom (to be covered after Equipment Rack DVI (EP Power Boom) is installed)	SD

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional
H Furnished by Philips and installed by Third Party

Item Number | Detail Sheet | Description

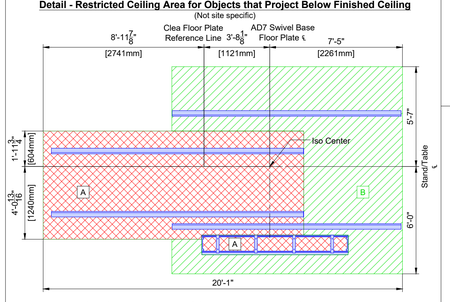
Important Notes:

- The Iso Center is the initial and most crucial control point in the construction of a procedure room. Once established, it guides the placement of all imaging equipment, third-party devices, mechanical, electrical, and plumbing systems (MEPs), as well as the overall construction. These are positioned relative to the Iso Center's X, Y, and Z coordinates to avoid operational issues and clinical limitations.
- All Unistruts are to be true and square to the edge of the floor plate.

Planning Issues and Considerations

1. Structural Engineer to verify reusability of Unistrut on site. The permissible stress and strain amount on existing Unistrut may be insufficient.
2. Monitor rails were moved 2-3/8" plan west to meet minimum overhang requirements.
3. System rails exceed minimum overhang (5-7/8").
4. Architect to modify reflected ceiling plan to accommodate system ceiling equipment, Unistrut, and electrical ceiling boxes.
5. Boom locations match Stryker locations. Draeger to update plans. Final boom placement to be discussed between customer and 3rd Party Vendor. Boom B1 moved 8" plan east to avoid collision with column and Boom A1 moved 1" plan north per request.

Detail - Restricted Ceiling Area for Objects that Project Below Finished Ceiling
(Not site specific)



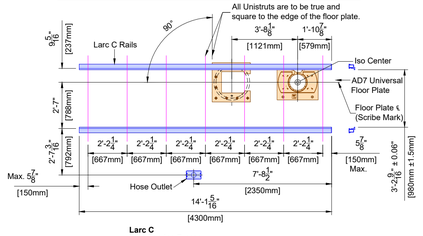
A No objects that project below finished ceiling are allowed in this area (lights, smoke detectors, concealed fire sprinkler head preferred, etc).

B No objects that project more than 4.5" (115mm) below finished ceiling are allowed in this area (lights, smoke detectors, concealed fire sprinkler head preferred, soffit, etc).

(24.0)

3/S2 RESTRICTED AREA DETAIL
SCALE: N.T.S.

Detail - Ceiling Structural Azurion 7 B20/12, B20/15 - AD7 Swivel

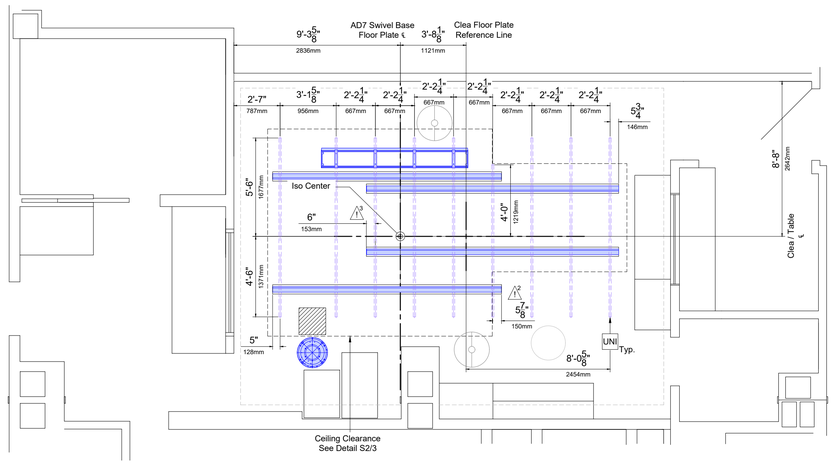


Larc C
Larc Bearing Forces:
(Tension) Tmax = 1939 lbs/fixing block
(Shear) Vmax = 845 lbs/fixing block

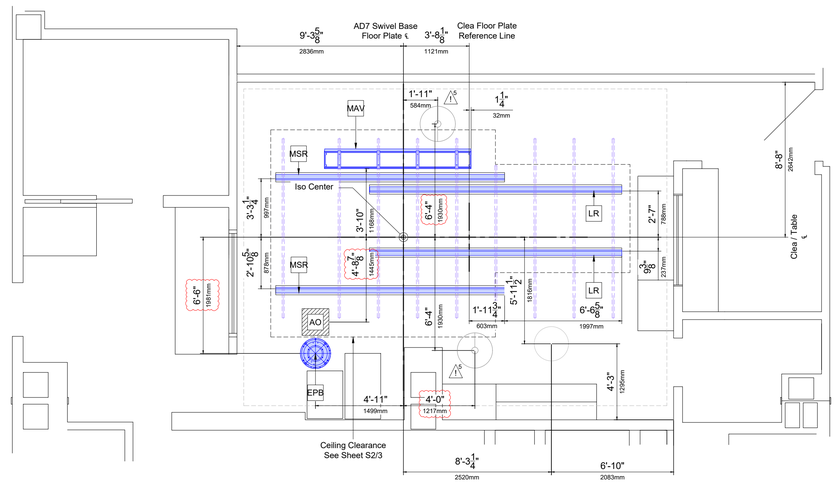
Note:
1. The bearing force shown for the Larc is the maximum instantaneous equipment bearing load. This force can occur at two locations (each fixing block) simultaneously on the same Unistrut (or equal) rail.
2. If seismic forces must be considered, please refer to the seismic calculation sheets provided by Philips for the specific system components.
3. 27" (685mm) maximum allowed distance between unistrut. 5-7/8" (150mm) maximum rail overhang from last unistrut attachment at either side.

(25.0)

6/S1 AZURION 7 B20/12, B20/15 - SWIVEL STRUCTURAL DETAIL
SCALE: N.T.S.



2/S2 CEILING SUPPORT LAYOUT - UNISTRUT
SCALE: 1/4" = 1'-0"
Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.



1/S2 CEILING SUPPORT LAYOUT - EQUIPMENT
SCALE: 1/4" = 1'-0"
Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.

PHILIPS

VA Medical Center
Gainesville
Gainesville, FL

PROVISIONAL

Drawing Title
STRUCTURAL PLANS

THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Project
Azurion 7 B20/12 (Cardiac) - Swivel Catalyst
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
Email: alan.rooks@philips.com

Drawn By: Alison Baillargeon

Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/26/2025
Quote: Q-00552854
Order: 6600762648

S2

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

03.31.2025

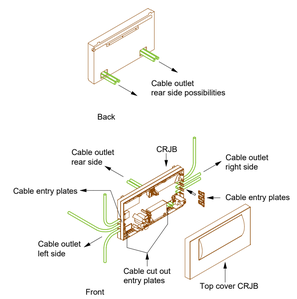
Pre-Evaluated and -Approved Anchor Reference List for Philips Installers

Anchors for items that are installed/anchored by customer/contractor shall be provided by customer/contractor. Anchors for items that are installed/anchored by Philips shall be provided by Philips. If customer's engineering documents specify anchors other than those listed below, the anchors shall be provided by customer/contractor and installed by Philips. In all instances, the wall and/or floor support are the sole responsibility of the customer/contractor. The customer's architect/engineer of record shall specify wall and/or floor support sufficient for the bolt forces shown on the details.

Equipment	Option	Anchor Style (provided by Philips)	Anchor Size (provided by Philips)	Qty.	Support Size & Material (provided & installed by customer/contractor)
Mavig Ceiling Track	A	Bolts, flat washer, lock washer, spring nuts	A307 Grade or ASME Grade 5 Bolts: $\frac{3}{8}$" (10mm) x 2" (50mm) L Spring Nuts: $\frac{3}{8}$" (10mm)	8	Unistrut

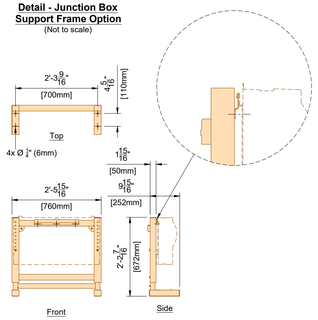
(12.0)

Detail - Example Control Room Junction Box - Cable Outlets
(Not to scale)



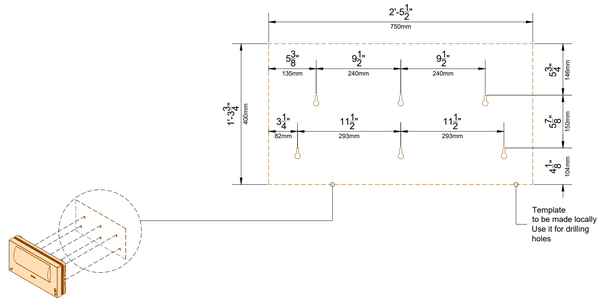
(23.0)

Detail - Junction Box Support Frame Option
(Not to scale)



(23.0)

Detail - Control Room Junction Box - Hole Pattern For Mounting
(Not to scale)

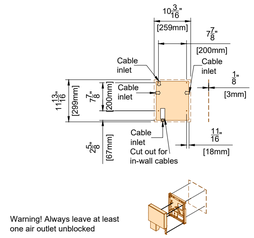


(25.0)

1 SD CONTROL ROOM JUNCTION BOX MOUNTING DETAILS & ANCHOR REFERENCE LIST

SCALE: N.T.S.

Detail - AUXEA/CREA/AVO - Hole Pattern For Mounting
(Not to scale)



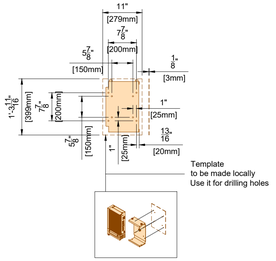
Warning! Always leave at least one air outlet unblocked

Applicable for all types of AVOs (AVOC / AVOE / AVOX / AVOK / AVOL / AVOB / AVOM)

(24.1)

2 SD AUXEA/CREA/AVO MOUNTING DETAIL

SCALE: N.T.S.



(23.0)

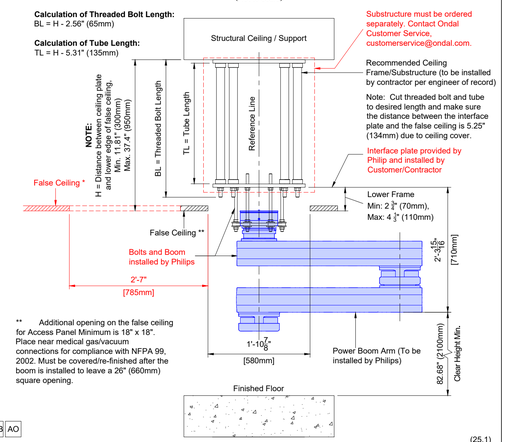
3 SD SERVICE HUB MOUNTING DETAIL

SCALE: N.T.S.

Detail - Calculation of Bolt Length Interface Plate Power Boom
(Not to scale)

Calculation of Threaded Bolt Length:
BL = H - 2.56" (65mm)

Calculation of Tube Length:
TL = H - 5.31" (135mm)



** Additional opening on the false ceiling for Access Panel Minimum is 18" x 18". Place near medical gas/vacuum connections for compliance with NFPA 99, 2002. Must be covered/re-finished after the boom is installed to leave a 26" (660mm) square opening.

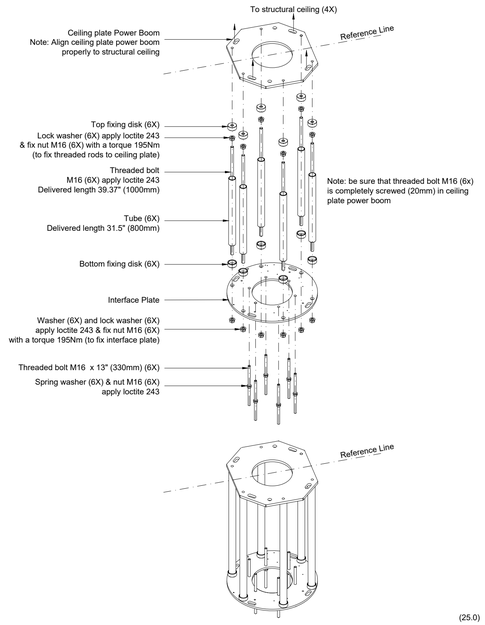
EPB AO

(25.1)

Detail - Exploded Ceiling Substructure for Power Boom
(Not to scale)

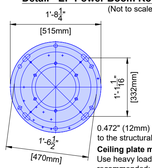
To be installed by customer/contractor per engineer of record.

Substructure must be ordered separately. Contact Ondal Customer Service, customerservice@ondal.com.



(25.0)

Detail - EP Power Boom Round Interface Plate
(Not to scale)



0.472" (12mm) thick ceiling plate, mounted to the structural ceiling.

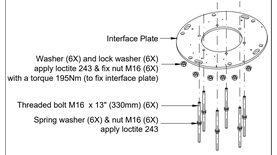
Ceiling plate mounting to the building:
Use heavy load anchors (4X) (not supplied), recommended:
1. HILTI HST M20 x 170/30

Max. vertical force = 1060 lbs (481 kg)(4718N)

EPB

(21.0)

Detail - Exploded Interface Plate Mount Power Boom
(Not to scale)
To be installed by customer/contractor per engineer of record.



EPB

(21.0)

4 SD EQUIPMENT RACK DVI - ROUND PLATE DETAILS

SCALE: N.T.S.

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Gainesville
Gainesville, FL

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STRUCTURAL DETAILS

THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Drawing Title

Project
Azurion 7 B20/12 (Cardiac) - Swivel Catalyst
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
Email: alan.rooks@philips.com

Drawn By: Alison Baillargeon

Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/26/2025
Quote: Q-00552854
Order: 6600762648

SD

Point to Point Run Lengths

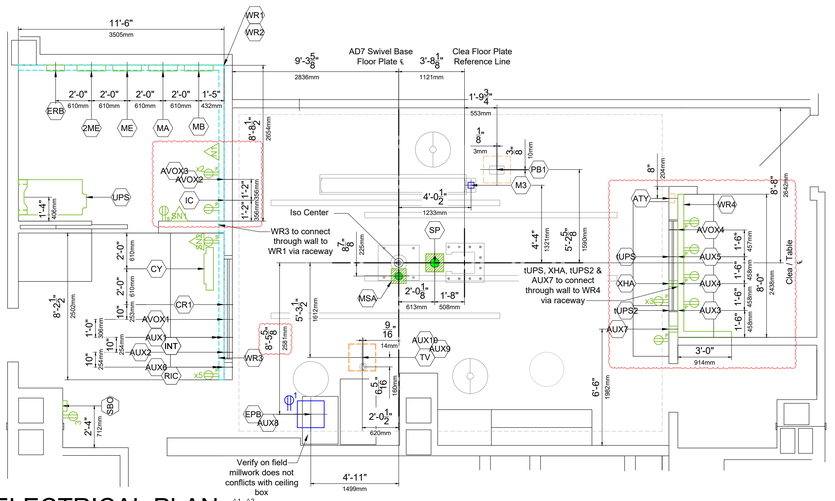
Electrician Requirements and Notes

1. A Greenlee measuring tape (part no. 435) must be provided with raceway (conduit) runs
2. All raceway (conduit) runs must take most direct route point to point.
3. All conduits shall be labeled and identified at each end by run number/destination
4. For conduit use the minimum bending radius specific to the conduit diameter. All conduit and raceway shall be sweeps.

A Raceway (Conduit) supplied/installed by contractor - Philips cables installed by Philips
B Raceway (Conduit) supplied/installed by contractor - Philips cables installed by contractor
C Raceway (Conduits) and cables supplied and installed by contractor
D Raceway (Conduit) existing - cables supplied and installed by Philips
E Raceway (Conduit) existing - cables supplied by Philips and installed by contractor
F Raceway (Conduit) existing - cables supplied and installed by contractor
G Optional equipment, verify with local Philips Service

* P Power (AC), DO Power (DC), S Ground, SH Signal, C High Tension, A Cooling Hose, Air Supply Hose

	Run No.	From	To	Raceway (Conduit) Quantity	Cable Type (*)	Minimum Raceway (Conduit) Size	Maximum Point to Point Run Length	Special Requirements
								(REQUIRED) Electrician to document point to point measurements
C	1	ERB	Third Party Room Outlets	-	G	-	-	For Injector, Auxiliary Box, Patient Monitoring, Video Networking, etc.
C	2	ERB		1	G	3/4"	-	See Sheet "2-ED" for details.
A	3	SP	ME	1	C	2 1/2"	61'	Tube Cooling Hoses.
A	4	SP	ME	1	H	2 1/2"	55'	X-Ray high-voltage cables, the use of 90 deg. ells is not acceptable.
A	5	SP	MA	1	P/G	1 1/2"	50'	-
A	6	SP	ME	1	P/G	1 1/2"	57'	-
A	7	SP	MA	1	S	2"	50'	-
A	8	SP	ME	1	S	1"	57'	-
A	9	MSA	MA	1	P/G	2"	44'	-
A	10	MSA	MA	1	S	3"	44'	-
A	11	MSA	MB	1	S	1"	44'	-
A	12	PB1	2ME	1	C	2 1/2"	60'	Tube Cooling Hose.
A	13	PB1	2ME	1	H	2"	62'	X-Ray high-voltage cables, the use of 90 deg. ells is not acceptable.
A	14	PB1	MA	1	P/G	1 1/2"	59'	-
A	15	PB1	2ME	1	P/G	1 1/2"	63'	-
A	16	PB1	MA	1	S	3"	59'	-
A	17	PB1	2ME	1	S	1"	63'	-
A	18	TV	MA	1	P	1 1/2"	60'	-
A	19	TV	MB	1	P/G	1 1/2"	60'	-
A	20	TV	MB	1	S	1 1/2"	60'	For FlexVision XL.
A	21	TV	CY	1	S	1"	60'	-
A	22	ATY	TV	1	S	1"	60'	-
A	23	CY	MA	1	S	3"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.
A	24	CY	MB	1	S	1 1/2"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.
A	25	CY	MA	1	P/G	2"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.
A	26	CY	MB	1	S	2"	86'	Conduits to land on wall raceway adjacent to CY. For Philips Workstations. Via raceway.
A	27	ATY	MA	1	S	2"	47'	-
C	28	SN1	SN2	1	S	1"	-	For Service Hub. Dedicated conduit and CAT 6 network connection terminated at each end (not allowed with x-ray system cabling).
C	29	WL	MA	1	P	PER NEC	PER NEC	X-ray Warning Light Refer to Detail 3-ED
C	30	RL	MA	1	P	PER NEC	PER NEC	Exam Room Light Refer to Detail 3-ED
G	31	MSA	PHY	1	S	3"	-	For future options (Patient Monitoring). Deleted 12/04/2024
A	32	AUX1	MB	1	S	1 1/2"	86'	Via raceway.
A	33	AUX2	MB	1	S	1 1/2"	86'	Via raceway.
A	34	AUX3	MB	1	S	1 1/2"	86'	-
A	35	AUX4	MB	1	S	1 1/2"	86'	-
A	36	AUX5	MB	1	S	1 1/2"	86'	-
A	37	AUX6	MB	1	S	1 1/2"	86'	Via raceway.
A	38	AUX7	MB	1	S	1 1/2"	86'	-
C	39	MSA	TER	1	-	2 1/2"	-	Termination point for for MSA. Deleted 12/04/2024
A	40	INT	EPB	1	P	1 1/2"	75'	Conduit opening must be covered if the IntraSight system is planned for future installation.
A	41	INT	EPB	1	S	1 1/2"	75'	Conduit opening must be covered if the IntraSight system is planned for future installation.
C	42	Power Supply	M3	1	P	3/4"	-	Project electrician to land 120 - 240 VAC, 50 - 60 Hz in M3 terminal block. Light requires: Plus 24, Minus 24, and Ground.
A	43	EPB	WR2	1	G	1"	-	Wire to be connected to the ERB.
A	44	EPB	CY	1	S	1"	78'	-
A	45	EPB	MB	1	S	1"	68'	-
C	46	EPB	WR3	1	S	2 1/2"	-	*For 3rd party equipment Use existing conduit.
G	47	EPB	WR3	1	P	2 1/2"	-	*For 3rd party equipment. Use existing conduit.
C	48	WR1	WR3	1	P	2 1/2"	-	*For 3rd party equipment to control room. Use existing conduit.
G	49	WR1	WR3	1	S	2 1/2"	-	*For 3rd party equipment to control room. Use existing conduit.
A	50	IC	MSA	1	S	3"	65'	For Table Mounted Injector.
A	51	IC	RIC	1	S	3"	90'	Via raceway.
A	52	AVOX1	MB	1	S	1 1/2"	86'	Via raceway.
A	53	AVOX2	MB	1	S	1 1/2"	86'	Via raceway.
A	54	AVOX3	MB	1	S	1 1/2"	86'	Via raceway.
A	55	AVOX4	MB	1	S	1 1/2"	86'	-
C	56	Power Panel	CB2	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.
C	57	CB2	UPS	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.
C	58	UPS	CB	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.
C	59	CB	WR2	1	P/G	Per N.E.C.	Per N.E.C.	4 AWG minimum phase/ground wire size. Final connections to terminate at MA terminal block.
C	60	SBO	UPS	1	S	Per N.E.C.	Per N.E.C.	For Signaling Box Option. Cable by electrician.
B	61	UPS	MA	1	S	Per N.E.C.	Per N.E.C.	UPS communication cable by Socomec.
C	62	UPS	ST	1	S	Per N.E.C.	Per N.E.C.	
C	63	CB	ST	1	P	Per N.E.C.	Per N.E.C.	
G	64	CB2	ST	1	P	Per N.E.C.	Per N.E.C.	
C	65	TV2	MB	1	S	1 1/2"	86'	For TV2 (Third Party 27" Monitor) Deleted 12/04/2024
C	66	TV3	MB	1	S	1 1/2"	86'	For TV3 (Third Party 27" Monitor) Deleted 12/04/2024
A	67	SN1	MB	1	S	1"	26'	
A	68	MSA	XHA	1	S	2 1/2"	100'	For Xper Hemo App.Use existing 3" conduit.
A	69	MSA	UPS	1	P	1 1/2"	100'	For Xper Hemo App.Use existing 3" conduit.
A	70	Boom B	XHA	1	P	1 1/2"	100'	For Xper Hemo App.
A	71	Boom B	AUX4	1	S	1"	98'	For Xper Hemo App.
A	72	AVOX2	Boom A1	1	S	1 1/2"	86'	
A	73	AVOX3	Boom B1	1	S	1 1/2"	86'	



1 / E1 ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

Required Unistrut Height: 9' - 9 3/8", +1/4" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.

Important Notes:

* The Iso Center is the initial and most crucial control point in the construction of a procedure room. Once established, it guides the placement of all imaging equipment, third-party devices, mechanical, electrical, and plumbing systems (MEPs), as well as the overall construction. These are positioned relative to the Iso Center's X, Y, and Z coordinates to avoid operational issues and clinical limitations.

* Control Room Junction Box (CY) provides all signal and power requirements for Control Room Equipment Adapters (CR).

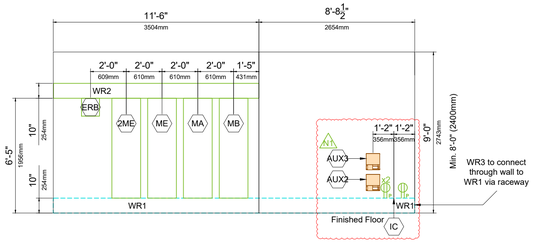
Planning Issues and Considerations

1. Verify exact location and configuration of existing electricals with local Philips service for reuse.
2. Conduit run(s) from MA to ATY must be able to take the most direct route. (Maximum distance point to point = 47')

* Exact size, location, and adaptability for reuse of existing conduits to be verified with local Philips Service.

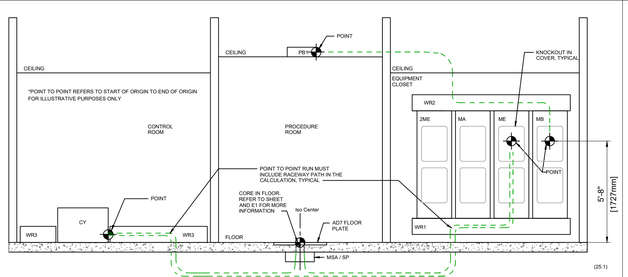
* Verify with 3rd party vendor for conduit and power requirements of the components placed in the Equipment Rack DVI (EP Power Boom) (EPB).

Important Notes:
New replacement backboxes must be installed at the standard height.
Existing wall boxes cannot be relocated or modified, as doing so will void their UL rating.



4 / E1 EQUIPMENT ROOM ELEVATION

SCALE: 1/4" = 1'-0"

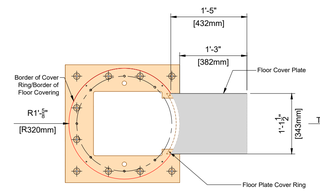


5 / E1 ELECTRICAL POINT TO POINT DETAIL

SCALE: N.T.S.

Detail - Floor Clea Floor Plate Cover Plate - Notes for Installation
(Not to scale)

Important Notes:
1. Floor cover to be locally made.
2. Floor cover to be above finished surface and over cavity.
3. Floor cover to be stainless steel material.
4. Floor cover to have beveled edge.
5. Floor cover to be 1/4" Thickness.
6. Floor cover should be fabricated to align with the cover ring.
7. Floor cover to be installed against the cover ring.
8. Silicon material is applied after installation on outskirts of floorplate cover ring.
9. Floor cover ring radius - 1'-3" (320mm)
10. Cable organizer to be supplied by Philips.

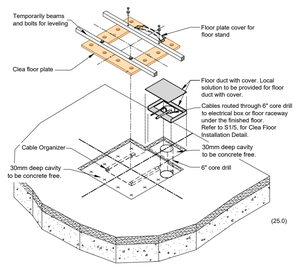


2 / E1 CLEA FLOOR PLATE COVER PLATE - NOTE FOR INSTALLATION

SCALE: N.T.S.

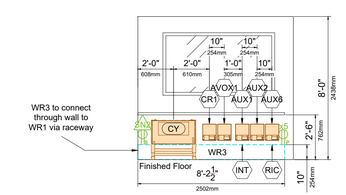
(25.0)

Detail - Clea Floor Plate Cable Entrance
Floor plate delivered from BEST
(Not to scale)



3 / E1 CLEA FLOOR CABLE ENTRANCE

SCALE: N.T.S.



6 / E1 CONTROL ROOM ELEVATION

SCALE: 1/4" = 1'-0"

Important Notes:

Minimal clear countertop - 30".

Grommets to be placed 2' on center throughout the length on countertop.

Architect to coordinate with end users/technicians to determine final placement of control desk components prior to installation in order to avoid rework. Architect to coordinate with Philips Project Manager to reflect final placement on Philips drawings.

Site Specific Only under counter equipment refer, A1/2 for final placement of equipment.

Electrical Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional

	Item Number	Description	Detail Sheet
		Wall	
B	ERB	Equi-Potential Reference Bar mounted in a 12" (305mm) W x 12" (305mm) H x 4" (105mm) D pull box with hinged cover, surface mounted to the bottom of "WR2" when possible.	ED
B	MA, ME, MB, 2ME	Philips Back Boxes Specs: 19 1/4" (490mm) W x 67" (1705mm) H x 4" (105mm) D flanged-edge terminal back box, surface mounted 82" (2085mm) A.F.F. to top of box. Weight is approximately 125 lbs (56.7 kg) per box.	ED
B	CY, CR1, AUX1, AUX2, INT, RIC, AUX3, AVOX1	2" grommet opening in WR3. Align with grommet opening on countertop.	
B	IC, AVOX2, AVOX3	Grommet opening on "WR1". Exact size and location to be determined by local Philips Service.	
B	AUX4, AUX3, AUX5, AUX7, AVOX4, XHA, tUPS, tUPS2	2" grommet opening on WR4. Approximate location shown is recommended and may be changed - verify relocation with local Philips Service.	
E	WR1	10" (255mm) W x 3 1/2" (89mm) D wall raceway, surface mounted with removable screw-type cover plate. "WR1" is at finished floor.	ED
E	WR3	10" (255mm) W x 3 1/2" (89mm) D wall raceway, surface mounted with removable screw-type cover plate. "WR3" is at finished floor.	ED
B	WR2	10" (255mm) W x 4" (105mm) D wall raceway, surface mounted with removable screw-type cover plate. "WR2" is at 77" (1960mm) A.F.F. to bottom of raceway.	ED
B	WR4	10" (255mm) W x 4" (105mm) D wall raceway, surface mounted with removable screw-type cover plate. "WR4" is at finished floor.	ED
E	ATY	Auxiliary Box - 6" (155mm) W x 6" (155mm) H x 4" (105mm) D wall box, flush mounted with removable screw-type cover plate. Mount 1'-0" (305mm) below finished ceiling to the top of box. ATY to be clearly visible. Location shown is recommended and customer may change location to meet clinical needs.	
B	WL	Warning Light - Provide a surface or flush mounted light fixture above door to indicate when X-ray is on, if required by local code or physicist of record. (Not shown on plan)	ED
B	RL	Exam Room Light Refer to Detail 3-ED. (Not shown on plan)	ED
B	CB	480V, 3 phase, Type D 80 A circuit breaker with long-time delay and shunt trip (e.g. Square D HDL36080 or equivalent). Run power from breaker to "MA", leaving an 8' (2440mm) tail at "MA". See Sheet "5-ED" for power quality requirements. Location per local code or owner requirements. (Not shown on plan)	ED
B	ST	Shunt Trip (emergency off) - Large mushroom-head button on remote control station with contacts to operate feature of "CB" and "CB2" (if required by local code or owner, and mandatory for VA and D.O.D installations). If UPS is utilized, EPO switch will run 2 sets of communication wires to input breaker to UPS and to UPS itself (Not shown on plan)	ED
B	CB2	UPS input breaker. 125A, 3-pole circuit breaker with shunt trip if required by local code. (Not shown on plan).	ED
D	UPS	UPS - 75 kVA.	ED
D	SBO	Signaling Box Option (wall mounted in the control area). Exact height to be determined. Location shown is recommended and may be changed - verify relocation with customer/contractor.	ED
		Floor	
B	MSA	10" (255mm) W x 10" (255mm) L x 6" (155mm) D floor box, under the floor with a 5" (130mm) core drill up to the underside of AD7 Swivel Floor Plate. Contractor to provide protection around core drill hole so that there are no sharp edges for protection of cables. Consult with local Philips Service.	
B	SP	12" (305mm) W x 12" (305mm) L x 4" (105mm) D floor box, under the floor with a 6" (152mm) core drill. See "Detail - Clea Floor Plate Cable Entrance" on Sheet "E1 / 1, 2, 3" for cable routing methods. Contractor to provide protection around core drill hole so that there are no sharp edges for protection of cables. Consult with local Philips Service.	E1
		Ceiling	
E	PB1	18" (460mm) W x 18" (460mm) L x 6" (155mm) D ceiling box, flush mounted with removable screw-type cover plate. Provide one 3" (80mm) diameter knockout.	
E	TV, AUX9, AUX10	18" (460mm) W x 18" (460mm) L x 6" (155mm) D ceiling box, flush mounted with removable screw-type cover plate. Provide a 2 1/2" (65mm) round cutout (Two 2 1/2" (65mm) round cutouts are required for systems with two monitor carriages - verify with local Philips Service). "AUX9" and "AUX10" to be mounted on back of FlexVision Monitor.	
B	M3	4" (105 mm)W x 4" (105 mm)L x 2 1/2" (65 mm)D ceiling box, flush mounted with removable screw-type cover plate. Hardwire 120 - 240 VAC, 50 - 60 Hz hospital power to "M3".	
B	EPB, AUX8	18" (460 mm) W x 18" (460 mm) L x 6" (150 mm) D ceiling box, above finished ceiling. Auxiliary Equipment Adapter mounted on Equipment Rack DVI (EP Power Boom). AUX8 to be mounted on EP Boom.	
		Duplexes	
B	S	120V/20A dedicated duplex outlet for service.	
B	P	120V/20A dedicated duplex outlet for Philips equipment.	
B	1	Provide (2) 120V/20A power supply for the Equipment Rack DVI (EP Power Boom) convenience and emergency outlets. Contractor to install power to the EP Power Boom.	
B	3	120VAC with 1Amp power draw SBO (Signaling Box Option)	
		Network Connectors	
B	N1	Single gang box for RJ45 type Ethernet 10/100/1000 Mbit network connector with access to customer's network. Locate within 10' (3050mm) of network card. Network fiber optic and Ethernet cabling, connectors, wall boxes, patch panels, etc. are the responsibility of the purchaser. Philips assumes no responsibility for procurement, installation, or maintenance of these components.	
B	SN1	Single gang box for an RJ45 Ethernet 10/100/1000 Mbit network connector, terminated to a CAT6 single RJ45 outlet dedicated for Service Hub connection in the equipment room. A dedicated conduit and CAT6 network connection must be terminated at each end (not be combined with X-ray system cabling).	
B	SN2	Single gang box for an RJ45 Ethernet 10/100/1000 Mbit network connector, terminated to a CAT6 single RJ45 outlet dedicated for service connection in the control room. A dedicated conduit and CAT6 network connection must be terminated at each end (not be combined with X-ray system cabling).	

PHILIPS

VA Medical Center
Gainesville
Gainesville, FL

PROVISIONAL

Drawing Title
ELECTRICAL PLANS

THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Project
Azurion 7 B20/12 (Cardiac) - Swivel Catalyst
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
Email: alan.rooks@philips.com
Drawn By: Alison Baillargeon

Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/26/2025
Quote: Q-00552854
Order: 6600762648

E1

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

03.31.2025

Emergency Power

Philips does not require equipment to be on emergency power. If the customer deems it necessary for the equipment to be supplied with emergency power, the following specifications must be applied:

The Mains 40E cabinet feeding an Azurion system will have an absolute peak current of <=300A @ 480V. Maximum momentary current <=80A per phase when averaged over a 5-second window. Note that during acquisition, the current harmonics (including sub- and inter-harmonics) up to 1 kHz can be substantial. Account for: 30% for the mains frequency +/- the frame speed, up to 20% for the 5th harmonics, up to 10% for the 7th harmonics.

Maximum differential mode induced disturbance voltage on these wires shall be a <3V peak at all frequencies. Maximum common mode current on these wires shall be less than 3 micro-amp at frequencies between 30-1000MHz to meet EMC regulations.

For systems delivered to site before Jan 2016 or with SIB (system interface box) 4522163320978. When this interface is used a Sub-D capacitive filter adapter with 5.6nF between pins and chassis shall be placed on X14 of the SIB input in the MA-cabinet (e.g. Amphenol FCE17B25AD290). (24.0)

Electrical Requirement Notes for Systems with MA Cabinet

Electrical power distribution at the facility shall comply with:

Utilization voltages per ANSI C84.1 - 2006 range A.

Voltage to be supplied is 3 phase, Wye or symmetric Delta 3-line +PE.

Phase conductors to be sized for instantaneous voltage drop per NEC 517.73 and Philips recommendations.

All Philips equipment is grounded via the equipment insulated ground wire. Metal raceway bonding shall be used as a secondary ground fault return path only for the supply mains to the equipment. The raceway system ground and isolated equipment ground shall be bonded together via the ERB terminal jumpers.

The Philips system has a private ground domain per clause 250.96B of the NEC. The raceway from the X-ray breaker (CB) to the Mains 40E Cabinet shall be supplemented by an internal insulated equipment grounding conductor installed in accordance with clause 250.146(D) of the NEC. The Azurion equipment ground domain and the branch circuit ground domain are bonded together in the ERB via a ground bonding jumper.

ANSI / NFPA 70 - National Electrical Code
Article 250 - Grounding
Article 517 - Healthcare Facilities
ANSI / NFPA 99 - Healthcare Facilities (24.0)

Power Quality Guidelines

1. Power supplied to medical imaging equipment must be separate from power feeds to air conditioning, elevators, outdoor lighting, and other frequently switched or motorized loads. Such loads can cause waveform distortion and voltage fluctuations that can hinder high quality imaging.
2. Equipment that utilizes the facility power system to transmit control signals (especially clock systems) may interfere with medical imaging equipment, thus requiring special filtering.
3. The following devices provide a high impedance, nonlinear voltage source, which may affect image quality:
Static UPS systems, Series filters, Power conditioners, and Voltage regulators.
Do not install such devices in the supply mains branch circuit of the Azurion system without consulting Philips installation or service personnel.
4. Line impedance is the combined resistance and inductive reactance of the electrical system and includes the impedance of the power source, the facility distribution system, and all phase conductors between the source and the imaging equipment. The minimum conductor size is based on the total line impedance and NEC requirements. Impedance calculations are to be performed by an electrical engineer. (22.0)

General Electrical Information

1. General
The customer shall be solely responsible, at its expense, for preparation of the site, including any required electrical alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and electrical codes, the customer shall be solely responsible for obtaining all electrical permits from jurisdictional authority.

2. Materials and Labor
The customer shall be solely responsible, at its expense, to provide and install all electrical ducts, boxes, raceways (conduits, wireways, auxiliary gutters etc.), fittings, bushing, etc., As separately specified herein.

3. Electrical Ducts and Boxes
Electrical ducts and boxes shall be accessible and have removable covers. **Philips system cables are not waterproof rating.** Floor ducts and boxes shall have watertight covers, and must be installed in slab for ground level grade conditions, and cannot be installed under the slab in crawl space where exposed to grade/ground level conditions. Ducts shall be divided into as many as four separate channels by metal dividers to separate wiring and cables into groups as follows:

Group A: Branch circuit equipment supply mains power wires together with the branch circuit isolated equipment bonding wire. Separation Group A and other groups is mandatory along the full run of group A wires.
Group B: Equipment Secondary Circuit AC supply and associated isolated ground cable/wire harnesses.
Group C: Equipment signal wires and cable harnesses plus equipment low-voltage DC supply cable/wire harnesses.
Group D: X-Ray high-voltage cables, the use of 90 deg. ells is not acceptable.

On ceiling duct and wall duct use 45 deg. bends at all corners. All intersecting points in duct to have cross over tunnels supplied and installed by contractor to maintain separation of cables based on 725.136 for low voltage signaling cables and conductors and 517.80 for communications and signaling cables in health care applications.

Secondary circuits of transformer powered communications and signaling systems are not required to be enclosed in raceways unless otherwise specified by Chapter 7 or Chapter 8.

All wire harnesses of the Azurion system are required to be run in a raceway (wireway) dedicated to Azurion wire harnesses. No foreign wiring shall be run in the same wireway together with the Azurion wire harnesses. Separation between groups B, C, and D is recommended for the first 3 meters behind the equipment cabinets and for the locations where wire-harness over-length is suspended.

4. Raceways (Conduit)
Raceway (Conduit) point - to - point runs shall be as direct as possible. Empty conduit runs used for cables may require pull boxes located along the run. Consult with Philips. A Greenlee measuring tape (part no. 435) shall be installed in each conduit run. Best practice to name the physical conduit. All conduits which enter duct plenum to their terminated point must maintain separation from other cables via use of tri-biders, cross over tunnels, or conduit supplied and installed by contractor from entrance into duct to exit from duct.

5. Conductors
All conductors, separately specified, shall be 90°C stranded copper, rung out and marked.

6. Disconnecting Means
A disconnecting means shall be provided as separately specified.

7. Warning Lights and Door Switches
"X-ray on" warning lights and x-ray termination door switches should be provided at all entrances to x-ray rooms as required by code.

8. Dimmer Switches X-ray room lights should be provided with dimmer switches. (25.0)

Electrical Notes

1. Electrical boxes displayed on E1 are the minimum sizes.

2. Philips equipment must be electrically isolated from conduits, raceways, ducts, seismic anchoring, floor anchoring, etc.

3. Philips cables are not plenum rated.

4. Provide and install 2" diameter chase nipples between adjacent wall boxes.

5. Install an insulated stranded ground wire per feeder/conductor size from the main ground bus to the ERB and from the ERB to the MA Cabinet (minimum size 4 AWG).

6. The contractor will supply & install all breakers, shunt trip and incoming power to the breakers. The exact location of the breakers and shunt trips will be determined by the architect or contractor. All cables and conductors to the equipment supply mains branch circuit breaker shall be supplied and installed by the contractor.

7. The contractor shall supply & install all pull boxes, raceway runs, stainless steel covers, etc. Conduit/raceways must be free from burrs and sharp edges over its entire length. A Greenlee measuring tape (part no. 435) must be provided with raceway runs to validate runs are within length restrictions.

8. Electrical raceway ducts shall be installed with removable covers. The raceway should be accessible for the entire length. In case of non - accessible floors, walls and ceilings, an adequate number of access hatches should be supplied to enable installation of cabling. All raceways will be designed in a manner that will not allow cables to fall out of the raceway when the covers are removed. In most cases, this will require above - ceiling raceway to be installed with the covers removable from the top.

9. Raceway sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or National Electrical Code, whichever govern.

10. Electrical contractor shall install grounding and bonding conductors at raceway openings within wall boxes as required by national and local electrical codes. Ground bond wires and lugs shall be installed in such a way to prevent the inadvertent contact with the installed Philips equipment to maintain Philips isolated ground scheme and maintain patient safety.

11. Convenience outlets are not shown on the plans. Their number and location are to be specified by the customer/architect.

12. Philips system cables are not waterproof rating. Conduit required to be EMT/Rigid metal material; or plastic/PVC material for below grade installation if allowed by code. Metal conduits must be installed in slab for ground level grade conditions, and cannot be installed under the slab in crawl space where exposed to grade/ground level conditions.

13. Flex conduit does not meet Philips installation requirement and is NOT ALLOWED for substitution for EMT/Rigid conduit materials. Any deviation for conduit material requires written permission from the Philips Project Manager. (25.0)

Power Quality Requirements (Azurion) (24.0)

Maximum Rated Power	100kW
Supply Configuration	3 phase, equally sized insulated power conductors and an insulated equipment grounding conductor. Insulated grounding conductor shall have the same or larger size than line conductors. Line wires shall be no smaller than 6 AWG, 90°C temperature or higher temperature rating. The conductor size is dependant on the upstream circuit breaker rating: Minimum 4 AWG for 80A circuit breaker rating.
Nominal Line Voltage	480 VAC, 60 Hz
Line Voltage Variation	Voltage variations are never to exceed ±10% when measured using 10 minute mean RMS values with a measurement window of 1 week. At least 95% of all measured 10 minute mean RMS values shall be within ±5% of the configured nominal voltage.
Line Voltage Balance	2% maximum of nominal voltage between phases
Frequency Variation	± 1.0 Hz
Voltage Surges	To 110% of steady-state voltage 100 msecs. Maximum duration, 6 per hour max.
Voltage Sags	To 90% of steady-state voltage 100 msecs. Maximum duration, 6 per hour max.
Line Impulses	1000 VPK above phase-neutral RMS absolute maximum. No more than 1 impulse per hour to exceed 500 VPK.
Neutral-Ground Voltage	2.0V maximum RMS value
Neutral-Ground Impulses	No more than 1 per hour that exceeds 25V and 1 milli-Joule
High Frequency Noise	3.0V steady-state maximum. Over 3.0V permitted for 100 msec. maximum, 1 per hour max.
Grounded Conductor Impedance	0.1 Ohms @ 60 Hz maximum

Branch Circuit and Wire Gauge Requirements (Azurion) (24.1)

Branch Power	100 kVA (System only; verify UPS power requirements)
Max. Standby Current	8A per phase
Circuit Breaker (CB)	3 Phase, Type D 80A with long-time delay and shunt trip

For information only. Terminal block accommodates AWG 00 to AWG 4 in mains cabinet. Engineer of record responsible for calculating phase conductor and equipment ground conductor sizes. Recommended phase conductor and equipment ground conductor sizes for 1% impedance of supply conductors to circuit breaker (CB).

Max. Instantaneous Power (at X-ray tube power 100 kV 1000mA current)	100 kW
Max. Inst. Current @ CB (RMS value over half-cycle)	300A @ 480V
Max. Phase-phase impedance @ CRC	0.455 Ω
Long Term Rating	63A at 480V
Momentary Rating (using a window of 5 seconds)	125A at 480V

Underwriters Laboratories
Global Health Sciences
Operations

UL LLC
12 Laboratory Drive
PO Box 13995
Research Triangle Park, NC 27709
United States

PHILIPS
Image Guided Therapy Systems

Philips Medical Systems Nederland B.V.
Image Guided Therapy Systems
Veenpluis 4-6
5684 PC Best
The Netherlands

To whom it concerns,

Philips has chosen UL to certify the back-box, which is an installation accessory for their medical system equipment cabinets. The back-box part number 9898-012-20367, together with the accompanying documentation DMR257722 has been tested and evaluated by UL under categories BGUZ(7) Boxes, Junction and Pull, taking into account the intended use and installation instructions in the accompanying documentation. The product was determined to comply with the applicable requirements and is UL listed with certificate number 20160314-E481790.

The intended use of the back-box includes the suspension of over-length of fixed-length wire harnesses that are part of the ANSI/AAMI/IES60601-1 listed medical X-ray equipment. These wire harnesses comply with the 2 means of protection against electric shock (i.e. all jacketed cables) as prescribed by the medical standard. Certified/listed equipment is compliant with NEC (NFPA70 / NFPA99) when installed and maintained according to the accompanying documentation (NFPA70 article 110.3) via promulgation of the accompanying documentation and the descriptive report of an CSHA accepted NRTL[1].

The Philips medical systems are permanently installed ANSI/AAMI/ES 60601-1 Class-I equipment requiring a protective earth connection to protect the primary supply mains circuit. The system is protectively earthed via an insulated protective earth conductor associated with the branch circuit supply mains that is routed via the Equi-potential Reference Bar (ARB) and terminates into the protective earth terminal, located in the cabinet rear cover of the main cabinet. The wiring from the branch supply to the mains input terminal of the system are not included in the system certification. The raceway system grounding to the branch circuit provides a secondary means of protection against electric shock for the primary circuit of the electrical wiring. Therefor the raceway system, including the back-box, needs to be grounded to the supply mains branch circuit.

All control room and examination room equipment of the medical systems is powered from the secondary circuit of an isolation transformer. In order to ensure a defined protective earth ground fault return path, e.g. for common phenomenon as X-ray tube arcing, the system accompanying documentation prescribes protective earth and ground domain separation. All protective earth and ground domains are bonded together at the Equi-potential Reference Bar (ERB).

The application of the ERB and protective earth connections have been prescribed in the accompanying documentation of the Medical Electrical System and in the installation manual of the back-box. The description in the back-box installation manual is brief, but includes the necessary explanation and requirements to ensure proper grounding of the back-box to the Equi-potential Conductor Bar (ECB) of the ERB. The IEC62353:2014 recurring tests protocol DMR216821 for electrical safety verifies and records the ground bonding of the specified ground domains.

Article 517.77 of NFPA 70-2014 allows high-tension shielded X-ray cables to be installed combined along with control cables and power supply conductors without the need for separation barriers. The X-ray system and protective earth connection has been designed such that all wire harnesses of the medical X-ray system are allowed to be run together through the raceway system without separation provided the raceway duct or conduit only contains wire harnesses of the medical system[2] and no foreign wire harnesses.

This letter is approved for communication to AHJ inspectors and other parties involved in the installation and release of Philips medical systems.

April 5, 2016

On behalf of UL LCC

D. Jennings-Conner
Director - Global Health Sciences Operations

On behalf of Philips IGT-Systems

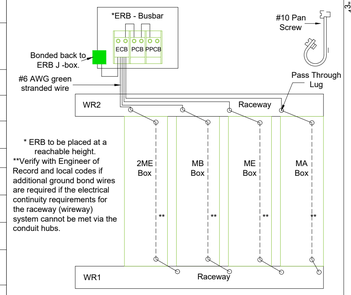
R.P. Kleihorst
R&D - System Designer

On behalf of Philips Norm-Compliance

W. Thijssen
R&D – Norm Compliance Officer

[1] The medical system has been certified by CSA and is documented in CSA certificate 700001934 for the Allura Xper and Allura Clarity series.

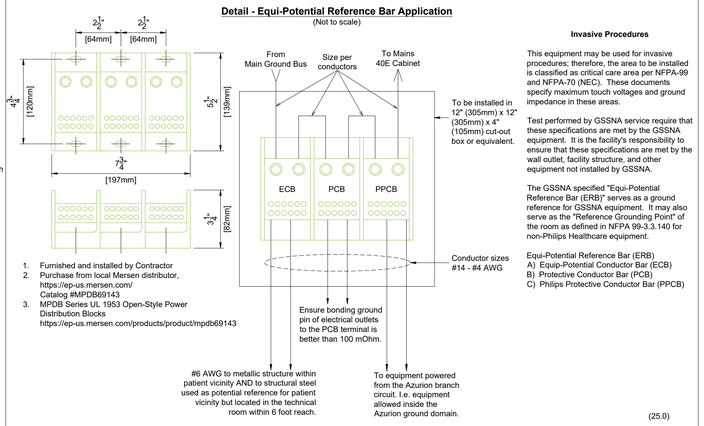
[2] The medical system consists of the X-ray system, combined with other medical equipment for which a compatibility statement has been issued by Philips. Such compatibility statement is based evaluation of the combined medical system and may contain additional installation requirements agreed upon between Philips and a 3rd party equipment manufacturer.



* ERB to be placed at a reachable height.
**Verify with Engineer of Record and local codes if additional ground bond wires are required if the electrical continuity requirements for the raceway (wireway) system cannot be met via the conduit hubs.

(24.0)

1 ED GROUNDING DETAIL
SCALE: N.T.S.



1. Furnished and installed by Contractor
2. Purchase from local Mersen distributor, https://ep-us.mersen.com/ Catalog #MPDB69143
3. MPDB Series UL 1953 Open-Style Power Distribution Blocks https://ep-us.mersen.com/products/product/mpdb69143

(25.0)

2 ED EQUIP-POTENTIAL BAR DETAIL
SCALE: N.T.S.

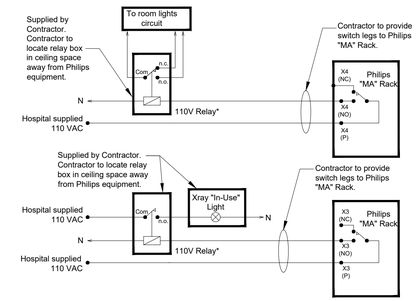
Invasive Procedures

This equipment may be used for invasive procedures; therefore, the area to be installed is classified as critical care area per NFPA-99 and NFPA-70 (NEC). These documents specify maximum touch voltages and ground impedance in these areas.

Test performed by GSSNA service require that these specifications are met by the GSSNA equipment. It is the facility's responsibility to ensure that these specifications are met by the wall outlet, facility structure, and other equipment not installed by GSSNA.

The GSSNA specified "Equi-Potential Reference Bar (ERB)" serves as a ground reference for GSSNA equipment. It may also serve as the "Reference Grounding Point" of the room as defined in NFPA 99-3.3.140 for non-Philips Healthcare equipment.

Equi-Potential Reference Bar (ERB)
A) Equip-Potential Conductor Bar (ECB)
B) Protective Conductor Bar (PCB)
C) Philips Protective Conductor Bar (PPCB)



Important Notes:
1. The system can be configured by software
   a. To turn off the desired exam room lights everytime during exposures
   b. Or the exam room lights can be set to turn on/off manually by the Philips footswitch.
   c. Verify with customer which exam room lights are controlled.
2. The X-ray "In-Use" indicator light(s) must be energized everytime during exposures.
3. The 110V relay should have heavy-duty contacts to handle the room lights current. All items shown (except Philips items) to be supplied by Contractor. (24.0)

3 ED X-RAY IN-USE LIGHT SCHEMATIC
SCALE: N.T.S.

Important Notes:
Customer/Contractor procures and installs Philips Back Boxes from Distinctive Manufacturing Group, part # 98980122036?. These back boxes are FDA / UL approved and certified for Philips equipment installations. (NO SUBSTITUTION MATERIAL IS ALLOWED)

New Replacement Back Boxes must be installed at the standard height. Existing wall boxes cannot be relocated or modified as doing so will void their UL rating.

Required:
Back Box Ordering Details

Distinctive Manufacturing Group Method of Business
Transactions for Philips Customers

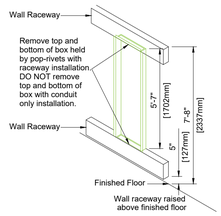
Part# 98980122036? Philips Xray Back Box

1) Three ordering methods:
-Email: backbox@thedmgusa.com
-Phone: 260-495-1818
-Fax: 260-495-1822

2) Payment Terms - Credit Card Only
-MasterCard
-Visa
-Discover
-American Express

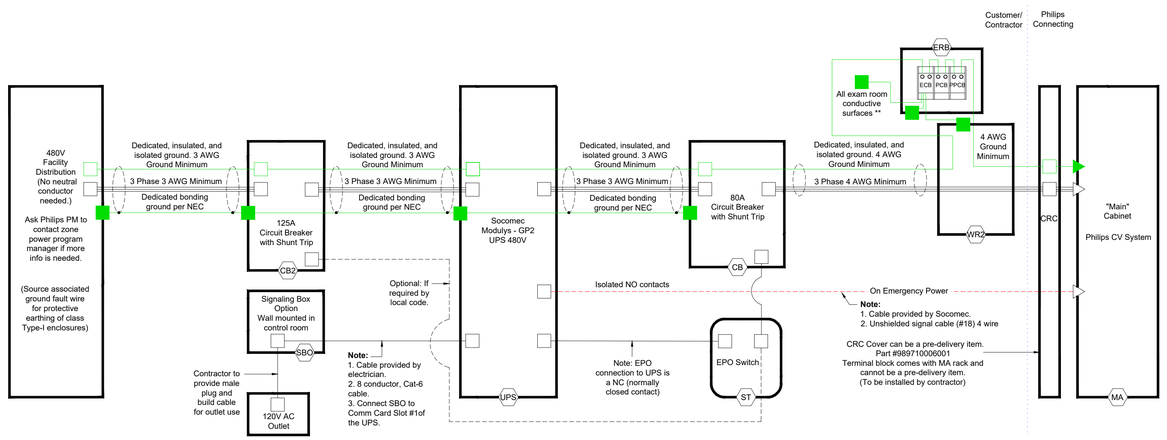
3) Lead Time
-3 Week Lead time

4) Freight
-All shipments will be shipped on skid
-Freight will be Pre-paid and added (PP+) to the invoice at time of shipment



(25.0)

4 ED BACK BOX MOUNTING DETAIL
SCALE: N.T.S.



Legend
Wiring and Connections made by Contractor unless otherwise noted. Isolated from metal casing.
Bond / Safety ground wiring and Connections made by Contractor. Connections that are connected to metal casing (e.g. outer housing, busbar).
Insolated / Isolated Ground wiring and Connections made by Contractor for equipment grounding conductor. Isolated from metal casing.
Wiring Connection made by Philips
Ground wiring Connection made by Philips
Supply conductors installed together with equipment grounding conductor in the raceway (conduit).

Notes
- Wiring and circuit sizes from source supply must meet Philips regulation requirements and must be determined by contractor to meet building conditions and local codes. 3 Phase + PE (Protective Earth).
- RAP needs to be mounted to the wall by contractor.
- Wire sizes will be dependent on:
  1. Lug size of UPS and MA terminal block
  2. The tolerance on the allowed nominal mains voltage shall not exceed ±10%.
  3. MA CRC Terminal Block can only accept 4 AWG.
- Full UPS assembly, all wiring, installation, Battery Module/Power Module insertion (for modular systems), Seismic brackets (if applicable), and startup in bypass is the responsibility of the electrician unless it is specifically stated otherwise. If electrical work is not completed when commissioning is scheduled there may be a second visit scheduled resulting in delay of timeline and additional cost.
- All Power Cables shall be in separate conduits from control and communication cables.
- ** This equipment may be used for invasive procedures; therefore, the area to be installed is classified as critical care area per NFPA-99 and NFPA-70 (NEC). These documents specify maximum touch voltages and ground impedance in these areas.
- ** The GSSNA specified "Equi-Potential Reference Bar (ERB)" serves as a ground reference for GSSNA equipment. It may also serve as the "Reference Grounding Point" of the room as defined in NFPA 99-3.3.140 for non-Philips Healthcare equipment.

(25.1)

5 ED ELECTRICAL SCHEMATIC WITH SOCOMEC LLF DETAIL
SCALE: N.T.S.

PHILIPS

VA Medical Center
Gainesville
Gainesville, FL

PROVISIONAL

Drawing Title
ELECTRICAL DETAILS
THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Project
Azurion 7 B20/12 (Cardiac) - Swivel Catalyst
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
Email: alan.rooks@philips.com

Drawn By: Alison Baillargeon

Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/26/2025
Quote: Q-00552854
Order: 6600762648

ED

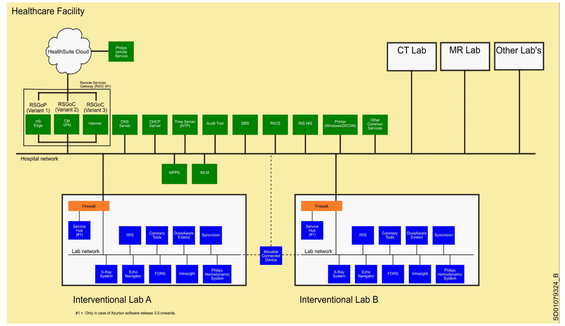
THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET CS
AND SHOULD NOT BE SEPARATED.

03.31.2025

Definition & Abbreviations

Terms	Description
*	"Mandatory items to be filled in when available in the Cathlab. Missing these, might impact the installation time."
AE title	An AE Title is used by an Application Entity (AE) to identify itself. AE Titles need to be locally unique and are typically managed by a system administrator.
BioMed	BioMedical Engineer
CMVPN	Customer Managed Virtual Practice
CT	Computed Tomography
DHCP	Dynamic Host Configuration Protocol
DICOM	Digital Imaging and Communication in Medicine
DNS	Domain Name System
FORS	Fiber Optic RealShape
FQDN	A fully qualified domain name (FQDN) is the complete domain name for a specific computer, or host, on the internet. The FQDN consists of two parts: the hostname and the domain name. For some registration part, this methodology can be used for registration.
FSE	Field Service Engineer
HCF	HealthCare Facility (= customer)
Hostname	In computer networking, a hostname is a label that is assigned to a device connected to a computer network and that is used to identify the device in various forms of electronic communication, such as the World Wide Web.
IP address	Packaging configuration containing one or more serviceable items. Optionally containing tools to install the serviceable items.
IWS	Interventional Workspot
MAC Address	A media access control address (MAC address) is a unique identifier assigned to a network interface controller (NIC) for use as a network address in communications within a network segment. MAC address can mostly be found on the rear side of the PC, or can be found by the survey in the service application
MPPS	Modality Performed Procedure Step
MR	Magnetic Resonance
NCS	Network Connectivity Sheet
NTP	Network Time Protocol
PACS	Picture Archiving and Communication System
PM	Project Manager, responsible for managing the catlab and X-ray installation.
Port number	A port number is a way to identify a specific process to which an Internet or other network message is to be forwarded when it arrives at a server.
PRS	Philips Remote Services
RIS	Radiology Information System
RSE	Remote Service Engineer
RSG	Remote Services Gateway
RSGoP (Variant 1)	Remote Services Gateway on Premises using a Philips HS Edge
RSGoP (Variant2)	Remote Services Gateway on Cloud using a CMVPN
RSGoP (Variant 3)	Remote Services Gateway on Cloud using internt
SRS	Structured Report Server
WLM	Work List Management

IMPORTANT NOTE: *It is the customer's responsibility to coordinate with the local Philips Engineer to provide ALL required network information and install ALL required network cabling & drops according to Philips specifications PRIOR to the scheduled installation start date. Failure to do so may delay system installation and jeopardize the customer hand over date.*



Hospital Information

Health Care Facility (HCF)		Responsibility
Hospital name	E.g. Hospital X	HCF IT
Country		HCF IT
City		HCF IT
Postal code		HCF IT
Address		HCF IT
Philips Field Service Engineer		**Responsibility**
Contact name		Philips PM
Email address		Philips PM
Phone number		Philips PM
Secondary contact name		Philips PM
Secondary contact Email		Philips PM
Secondary contact Phone		Philips PM
Philips Project Manager		**Responsibility**
Contact name		Philips PM
Email address		Philips PM
Phone number		Philips PM
Secondary contact name		Philips PM
Secondary contact Email		Philips PM
Secondary contact Phone		Philips PM
IT department		**Responsibility**
Contact name		HCF IT
Email address		HCF IT
Phone number		HCF IT
Secondary contact name		HCF IT
Secondary contact Email		HCF IT
Secondary contact Phone		HCF IT

HCF - CathLab identification X-ray system		Responsibility
Cathlab / room name	E.g Hybryd_OK1	HCF IT
Cathlab/Room ID		HCF IT
Physical location in HCF		HCF IT
HCF Project Manager/ BioMed		**Responsibility**
Contact name		Philips PM
Email address		Philips PM
Phone number		Philips PM
Secondary contact name		Philips PM
Secondary contact Email		Philips PM
Secondary contact Phone		Philips PM
Philips Lead installer		**Responsibility**
Contact name		Philips PM
Email address		Philips PM
Phone number		Philips PM
Secondary contact name		Philips PM
Secondary contact Email		Philips PM
Secondary contact Phone		Philips PM
PRS Lead		**Responsibility**
Contact name		Philips PM
Email address		Philips PM
Phone number		Philips PM
Secondary contact name		Philips PM
Secondary contact Email		Philips PM
Secondary contact Phone		Philips PM

X-ray system (Basic)

Local X-ray system		Responsibility
System Type	E.g. Hospital X	PHILIPS
Serial number		PHILIPS
IP sec enabled	Select Yes or No	HCF IT
HostName	SUITE-PC (always for Azurion)	HCF IT
MAC Address		PHILIPS
IP Address		HCF IT
AE Title	LOCAL_AETITLE	HCF IT
Port Number		HCF IT
AE Title AlluraRIS	AE_ALLURA_RIS	HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Hospital network		**Responsibility**
Internet protocol used at HCF	IPv4/IPv6	HCF IT
Subnet Mask / Subnet prefix length		HCF IT
Default Gateway / Gateway		HCF IT
Remote service options		**Responsibility**
Remote Service part of contract	Select Yes or No	PHILIPS PRS lead
RSG available	None/ RSG onsite(HSEdge/ RSG Cloud(CMVPN)/ RSG Cloud(Internet)	PHILIPS PRS lead
Proactive and Reactive Monitoring	Select Yes or No	PHILIPS PRS lead
Remote Desktop Connection	Select Yes or No	PHILIPS PRS lead
Software Distribution and Installation	Select Yes or No	PHILIPS PRS lead
Coronary Tools		**Responsibility**
Available in cathlab	Select Yes or No	PHILIPS
Physical location	Control Room/R-cabinet/B-cabinet	PHILIPS
Physical location in (R-)/(B-)cabinet	Pos1/Pos2/Pos3/Pos4/N.A.	PHILIPS
HostName		HCF IT
MAC Address		PHILIPS
IP Address		HCF IT
AE Title (Storage Node)		HCF IT
AE Title (Storage Commit)		HCF IT
Port Number (Storage Commit)		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
EchoNavigator		**Responsibility**
Available in cathlab	Select Yes or No	PHILIPS
Physical location	Control Room/R-cabinet/B-cabinet	PHILIPS
Physical location in (R-)/(B-)cabinet	Pos1/Pos2/Pos3/Pos4/N.A.	PHILIPS
HostName		HCF IT
MAC Address		PHILIPS
IP Address		HCF IT

Interventional workspot (IW)		Responsibility
Available in cathlab	Select Yes or No	Philips PM
Physical location	Control Room/R-cabinet/B-cabinet	Philips PM
Physical location in (R-)/(B-)cabinet	Pos1/Pos2/Pos3/Pos4/N.A.	Philips PM
IP sec enabled	Select Yes or No	HCF IT
HostName		HCF IT
MAC Address		PHILIPS
IP Address		HCF IT
AE Title	RSXVimport	HCF IT
Port Number	4110	HCF IT
AE Title IWXrayMod	XVImport	HCF IT
Port Number	3110	HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT

Network & Services

Windows printer		Responsibility
Physical location	Select Yes or No	HCF IT
Compatible Windows release		HCF IT
IP sec enabled	Select Yes or No	HCF IT
Printer type	e.g. Win10, Win7	HCF IT
HostName		HCF IT
IP Address		HCF IT
Port Number		HCF IT
DICOM printer 1**		**Responsibility**
Physical location		HCF IT
Printer type		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Port Number		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Structured Report Server 1		**Responsibility**
Physical location		HCF IT
Model name		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Port Number		HCF IT

MPPS		Responsibility
Physical location		HCF IT
Model name		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Port Number		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Certificate name / License		HCF IT
PPSM IHE compatible	Select Yes or No	HCF IT
Remote system/PACS 1**		**Responsibility**
Physical location		HCF IT
Model name		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Port Number		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Services		
Store AETitle		HCF IT
Store PortNumber		HCF IT
Move AETitle		HCF IT
Move PortNumber		HCF IT
QR AETitle		HCF IT
QR PortNumber		HCF IT
SC AETitle		HCF IT
QR PortNumber		HCF IT
RDSR AETitle		HCF IT
RDSR PortNumber		HCF IT
WorkList Management		**Responsibility**
Physical location		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Port Number		HCF IT
Automatic query schedule date	24 hrs / infinite	HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Certificate name / License		HCF IT

TimeSync (NTP)		Responsibility
Physical location		HCF IT
IP sec enabled	Select Yes or No	HCF IT
HostName		HCF IT
IP Address		HCF IT
FQDN		HCF IT
RIS Basic		**Responsibility**
Physical location		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Max PDU size	16384 (Allura), 64234 (Azurion)	HCF IT
DNS		**Responsibility**
Physical location		HCF IT
IP sec enabled	Select Yes or No	HCF IT
HostName		HCF IT
IP Address		HCF IT
FQDN		HCF IT
Audit trail server		**Responsibility**
Physical location		HCF IT
Local audit repository	Enabled / Disabled	HCF IT
Central audit repository	Enabled / Disabled	HCF IT
HostName		HCF IT
IP Address		HCF IT
FQDN		HCF IT
Network protocol	IPv4/IPv6	HCF IT
Port Number		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Other		**Responsibility**
Physical location		HCF IT
Model name		HCF IT
HostName		HCF IT
MAC Address		FSE
IP Address		HCF IT
AE Title		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
DHCP Server		**Responsibility**
Physical location		HCF IT
IP sec enabled	Select Yes or No	HCF IT
HostName		HCF IT
IP Address		HCF IT

Info & instructions for Philips FSE/Hospital IT (in case of remote connection via ServiceHub)

ServiceHub		Responsibility
Static or DHCP	Select Yes or No	HCF IT
IP address	Select Yes or No	HCF IT
Subnet Mask / Subnet prefix length	(should be same for all medical devices)	HCF IT
Default Gateway / Gateway	(should be same for all medical devices)	HCF IT
MAC address		PHILIPS RSE/FSE
Audit trail connection	Select Yes or No	HCF IT
Time Server Connection	Select Yes or No	HCF IT
RSGoP via HSEdge		**Responsibility**
IP address		PHILIPS PRS lead
Host name		PHILIPS PRS lead
FQDN		PHILIPS PRS lead
Port Number		PHILIPS PRS lead
RSGoC via CMVPN		**Responsibility**
IP address		PHILIPS PRS lead
Endpoint		PHILIPS PRS lead
RSGoP via internet		**Responsibility**
Proxy (optional)	Select Yes or No	PHILIPS PRS lead
IP address (optional)		PHILIPS PRS lead
FQDN (optional)		PHILIPS PRS lead
Port Number (optional)		PHILIPS PRS lead
Username (optional)		PHILIPS PRS lead
Password (optional)		PHILIPS PRS lead
HS Cloud Concentrator (optional)	Select Yes or No	PHILIPS PRS lead
Region		PHILIPS PRS lead
End point		PHILIPS PRS lead

Info & instructions for Bio-Med/Hospital IT (in case of remote connection via PSA/M2M)

Configure the hospital network for one of the following remote connection types, according to the data supplied on this sheet (open ports in firewall)

+ VPN connection

+ VPN connection with source NAT

+ ISSL connection

+ ISSL connection with proxy server

Type the local IP addresses, subnet maks and Gateway settings of the remotely connected products in the highlighted cells

VPN Standard

Philips Product	Local IP address	Subnet mask	Gateway	Direction	Port	Protocol	Usage	Philips RSN IP range
Azurion X-ray System	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Outbound to	443	HTTPS	For Remote Services Support	https://192.68.49.0/24
				Inbound from	Ping	ICMP Echo	Reachability check	
				Inbound from	22	SFTP	Azurion R2.1 or higher	
Allura Xper X-ray System	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Outbound to	443	HTTPS	For Remote Services Support	https://192.68.49.0/24
				Inbound from	Ping	ICMP Echo	Reachability check	
				Inbound from	21	FTP	Windows XP only	
Interventional workspot	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Outbound to	443	HTTPS	For Remote Services Support	https://192.68.49.0/24
				Inbound from	Ping	ICMP Echo	Reachability check	
Coronary Tools	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Outbound to	443	HTTPS	For Remote Services Support	https://192.68.49.0/24
				Inbound from	Ping	ICMP Echo	Reachability check	
EchoNavigator	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Outbound to	443	HTTPS	For Remote Services Support	https://192.68.49.0/24
				Inbound from	Ping	ICMP Echo	Reachability check	
Philips Hemo	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Inbound from	22	SFTP		

VPN with source NAT

Philips Product	"Source NAT servers - Fixed Philips IP range"	"Source NAT servers - Customer defined symmetrical Source NAT IP"
Azurion X-ray System	Server Address: https://192.68.49.49 Tunnel Address: https://192.68.49.50 Registration Adress: https://192.68.49.140 oneAVS security server: - https://192.68.49.12 - https://192.68.49.29	Server Address : https://62.130.250.49 Tunnel Adress : https://62.130.250.50 Registration Adress :https://62.130.250.140 oneAVS security server: - https://192.68.49.12 - https://192.68.49.29
Allura X-ray System		
Interventional workspot		
Coronary Tools		
EchoNavigator		
ServiceHub		
Philips Hemo		

ISSL standard:

Philips Product	Local IP address	Direction	Port	Protocol	Philips RSN DNS	Usage
Azurion X-ray System	<fill in local IP address>	Outbound To	443	HTTPS	"https://ws-m2m.prs.healthcare.philips.com https://ta-m2m.prs.healthcare.philips.com https://car-m2m.prs.healthcare.philips.com"	For remote services support
Allura X-ray System	<fill in local IP address>					
Interventional workspot	<fill in local IP address>					
Coronary Tools	<fill in local IP address>					
EchoNavigator	<fill in local IP address>					
Philips Hemo	No ISSL Support					

ISSL with proxy server: Configure "ISSL standard" and also collect the proxy server settings

Philips Product	Proxy Server IP address	Proxy Server port number	Proxy Server User name	Proxy Server Password	NTLM (NT Lan Manager)
Azurion X-ray System	<fill in local Proxy Server IP address>	<fill in local Proxy Server port number >	<fill in local Proxy Server User Name >	<fill in local Proxy Server Password	<NTLM available Yes / No >
Allura X-ray System					
Interventional workspot					
Coronary Tools					
EchoNavigator					
Philips Hemo	No ISSL Support				

(25.0)

Networking Ports

Network Ports	From	To	Both Directions?	Protocol	Task	Philips Devices: Azurion System	Interventional Workspot (WS)	EchoNavigator	Coronary Tools	IntraSight	SyncVision	FORS	ServiceHub
22	FSE Laptop Medical device Philips Remote Services	ServiceHub ServiceHub ServiceHub	Yes Yes Yes	TCP TCP TCP	For file transfer operations from FSE laptop to ServiceHub To transfer logfiles from Medical device to ServiceHub For file transfer operations from Philips Remote Services to ServiceHub								x x x
67-68	Philips Devices	Hospital DHCP Server	Yes	UDP	DHCP Server	o	o	o	o	o		o	o
104 or 11112	Philips Devices	Hospital PACS/RIS	No	TCP	DICOM - PACS, RIS WLM and DICOM Printing	x	x	x	x	x		x	
123	Philips Devices	Hospital NTP Server	No	UDP	Time server	o	o	o	o	o	o	o	o
137	Philips Devices	Hospital Network Printer	No	UDP	Regular paper printing for WINS Windows Internet Naming Service (name lookup for SMB printing)	o							
139	Philips Devices	Hospital Network Printer	No	TCP	Regular paper printing for SMB printing.	o							
161	Philips Devices	Hospital Network Printer	No	UDP	Regular paper printing for SNMP browsing (broadcast) and status monitoring (directed to printer IP address)	o							
443	FSE laptop Remote Services Gateway ServiceHub	ServiceHub ServiceHub Philips oneAVS server	No No No	TCP TCP TCP	To access ServiceHub dashboard Service interaction from Remotes Service Gateway Interaction with Philips oneAVS server								x x x
514	Philips Devices	Hospital Server	No	UDP/TCP	Audit Trail	o	o		o			o	o
515	Philips Devices	Hospital Network Printer	No	TCP	Regular paper printing for Line Printer Daemon (LPD/lpr) print job submission and status monitoring.	o							
2011	Medical device	ServiceHub	No	TCP	Medical device registration on PRS								x
4110	Hospital PACS	Philips Devices	No	TCP	DICOM - PACS		x					x	
5353	ServiceHub	Medical device	Yes	UDP	Discovery of medical devices in the lab								x
5660	Philips Remote Services FSE laptop	ServiceHub ServiceHub	No No	TCP/UDP TCP/UDP	Service engineer authentication to access ServiceHub Dashboard from PRS Service engineer authentication to access ServiceHub Dashboard from the FSE Laptop								x x
5614	Philips Devices	Hospital Server	No	UDP/TCP	Audit Trail Secure	o	o		o			o	o
8443	ServiceHub	Remote Services Gateway on HealthSuite Edge	No	TCP	Interaction with Remote Services Gateway on HealthSuite Edge This is the default port, the port can be changed by the hospital								x
9100-9102	Philips Devices	Hospital Network Printer	No	TCP	Regular paper printing for Raw print data stream (AppSocket/JetDirect)								
29530-29540	Hospital PACS	Philips Devices	No	TCP	DICOM - PACS (required for patient administration)	x							
50000 - 59999	ServiceHub	Medilical device	No	TCP	Service interactions								x

x = standard / present
o = optional

ServiceHub Whitelisting

Communication	Port	Protocol	Direction
RSGoP (Variant 1)			
Device to HS RSG (on prem)	8443	HTTPS	OUT
Device to HS RSG first communication	8440	HTTPS	OUT
From PRS (192.68.49.0 /24) to Device			
IST authentication	5660	SSH	IN
SFTP and webUI	22	SSH	IN
RSGoC (Variant 2)			
From PRS (192.68.49.0 /24) to Device			
IST authentication	5660	SSH	IN
SFTP and webUI	22	SSH	IN
From device to PRS (192.68.49.0 /24)			
Device to HS RSG (cloud)	443	HTTPS	OUT
All backend services in HS Cloud are hosted behind a Cloud Concentrator addressable through 192.68.49.0			
RSGoC (Variant 3)			
Device to HS RSG (direct cloud)	443	HTTPS	OUT
Following Domains need to be whitelisted by the healthcare facility			
*.philips-healthsuite.com			
*.hsdp.io			

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

03.31.2025

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VA Medical Center
Gainesville
Gainesville, FL
PROVISIONAL

NETWORK NOTES

THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Drawing Title

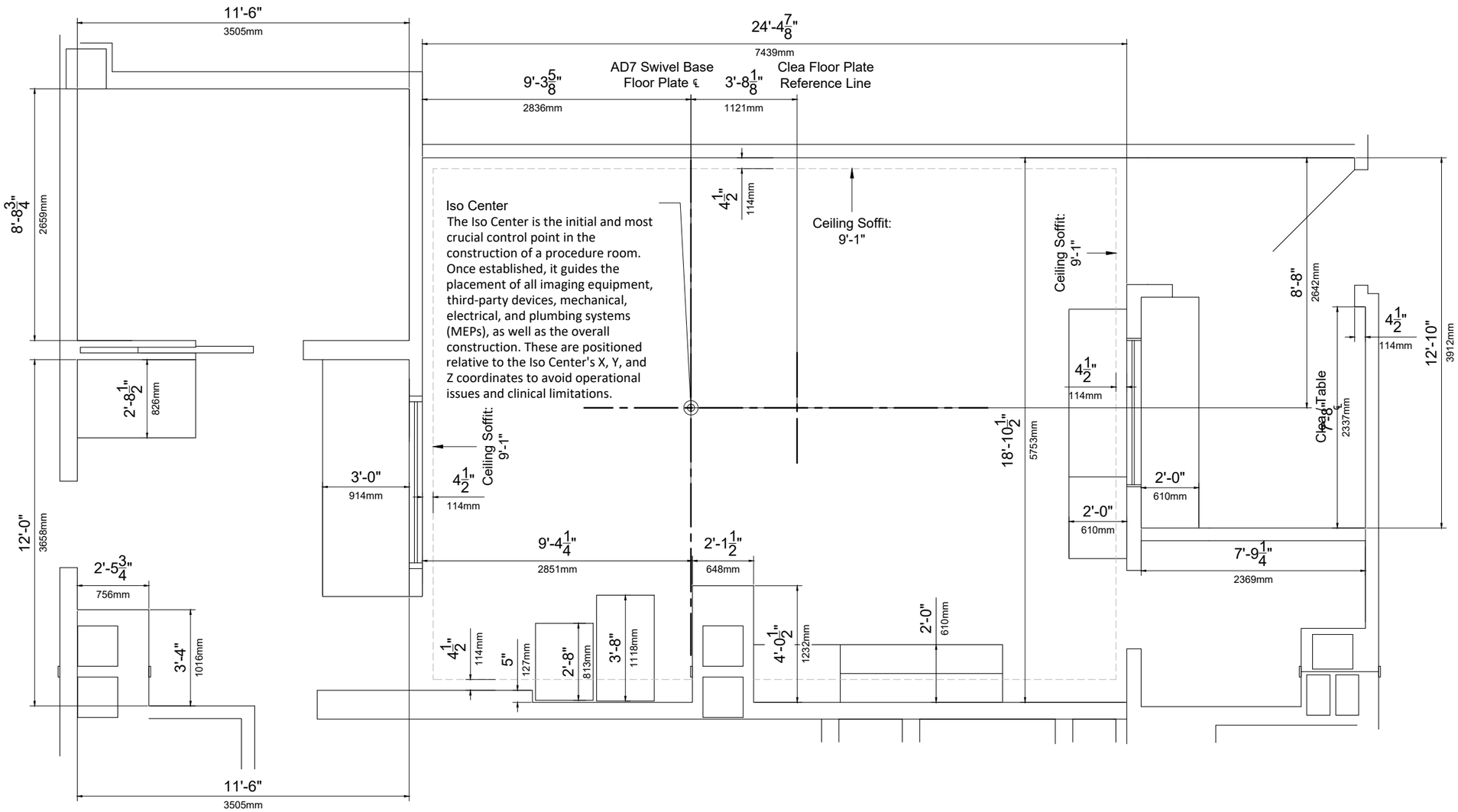
Project
Azurion 7 B20/12 (Cardiac) - Swivel
Catalyst
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
Email: alan.rooks@philips.com

Drawn By: Alison Baillargeon

Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/26/2025
Quote: Q-00552854
Order: 6600762648

NN



SITE LAYOUT (ref.)

1 / A1

SCALE: 1/4" = 1' - 0"

Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.

PHILIPS
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Project
Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
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Quote: Q-00552854
Order: 6600762648

R-A1.1

NOTE:
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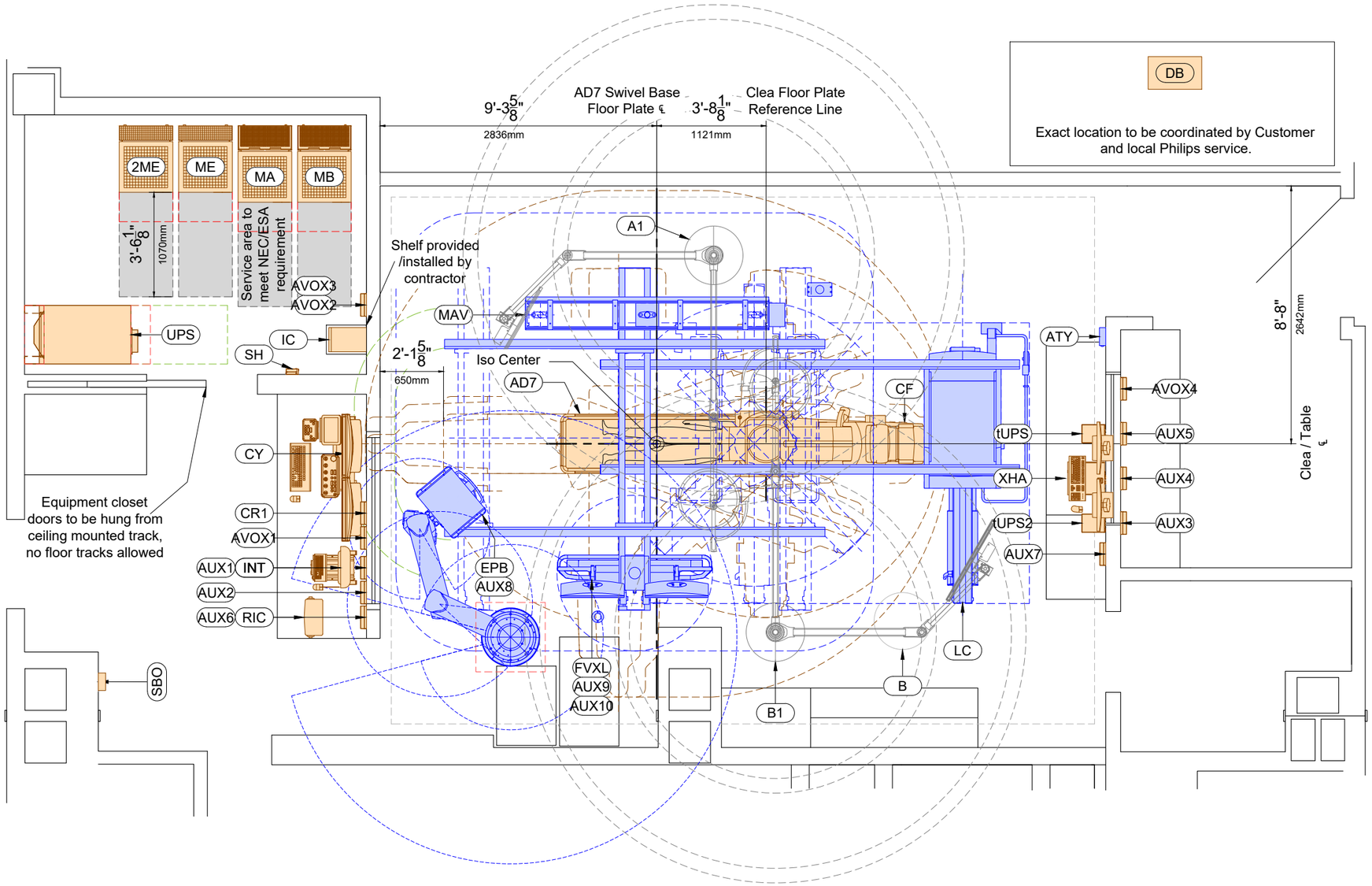

EQUIPMENT LAYOUT (ref.)

2 / A1

SCALE: 1/4" = 1' - 0"

Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.

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Project
Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
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R-A1.2

03.31.2025

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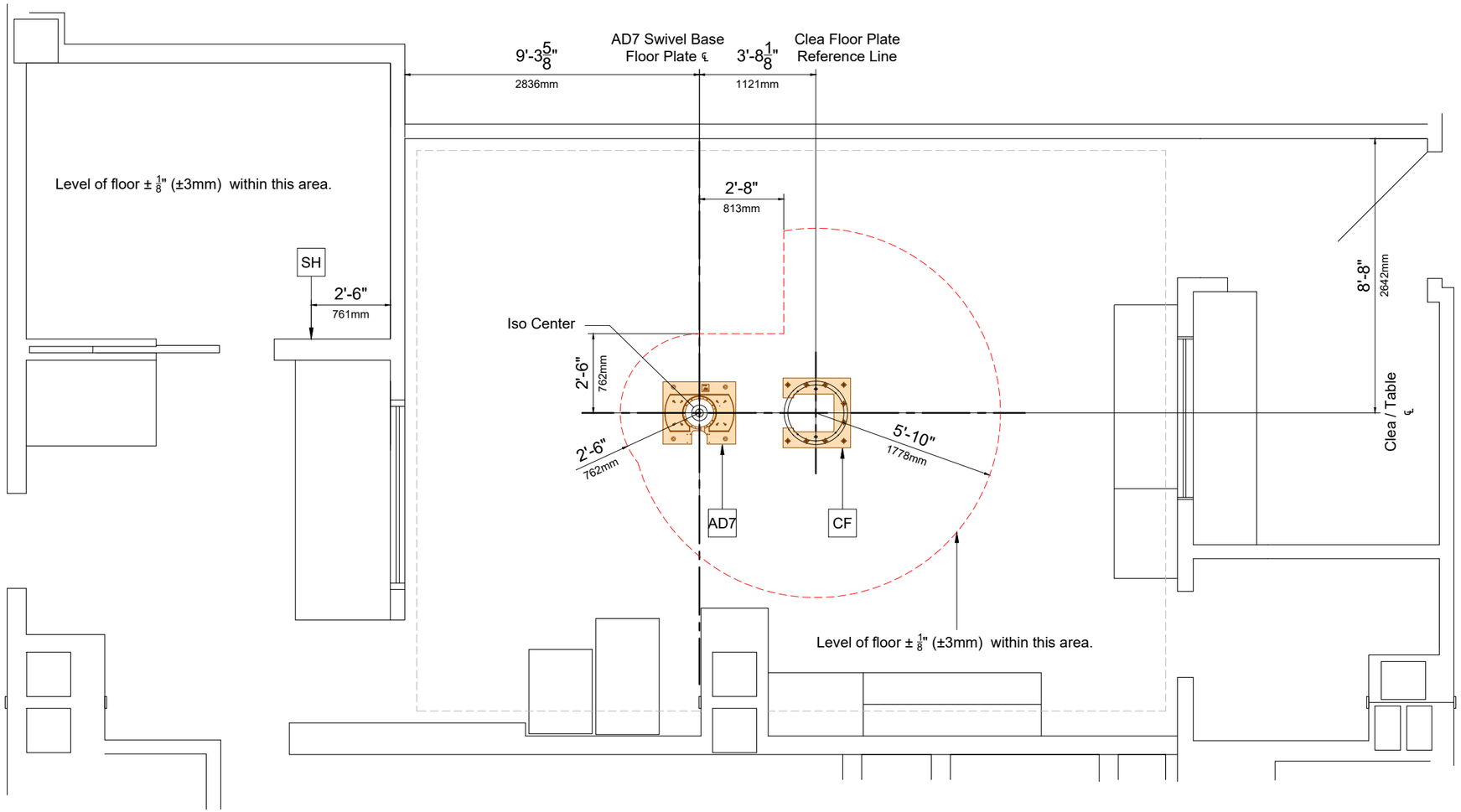

1
S1

FLOOR & WALL SUPPORT LAYOUT (ref.)

SCALE: 1/4" = 1'-0"

Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut
height measured from top of Clea floor plate to bottom of Unistrut.

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Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

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R-S1.1

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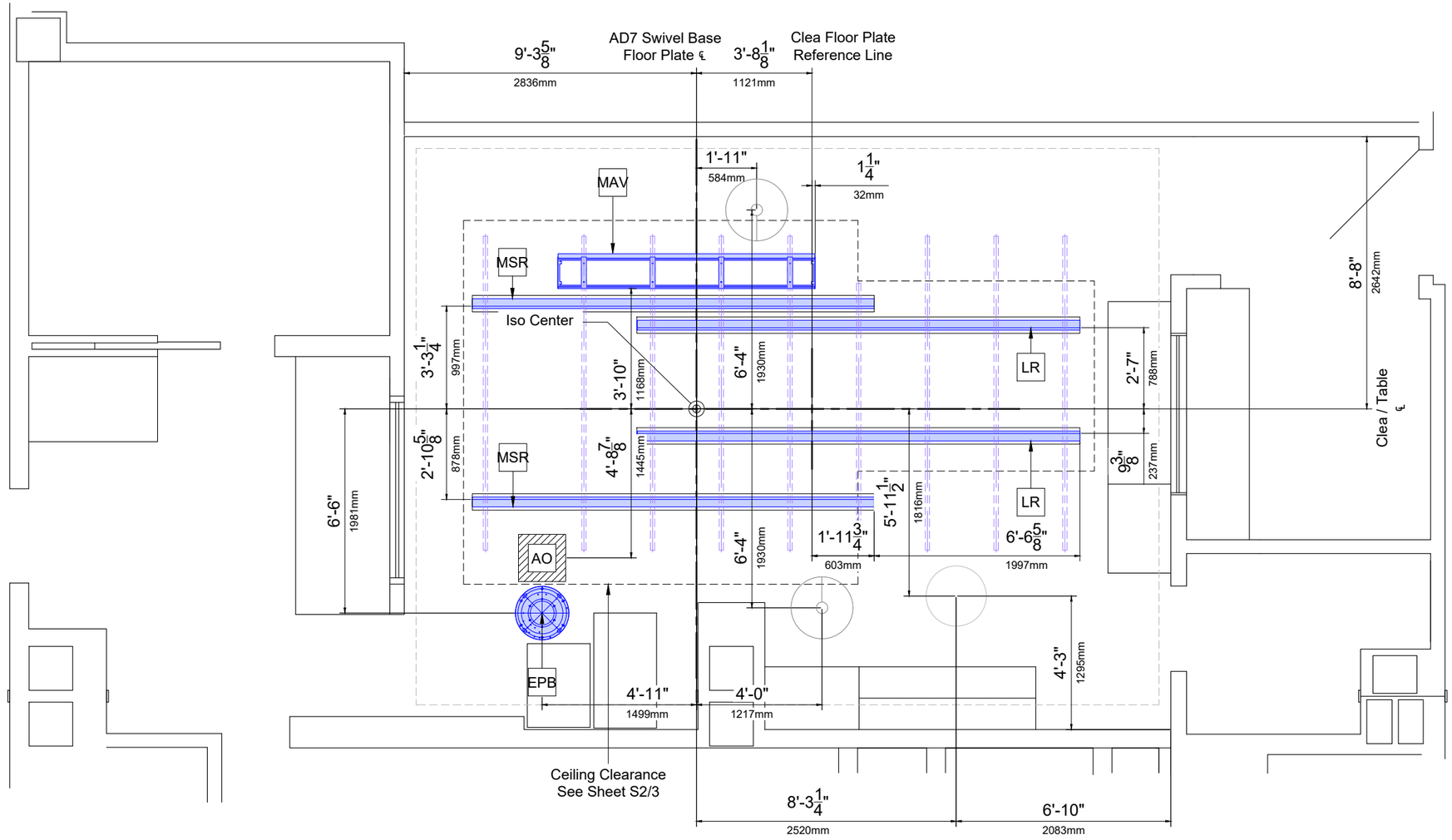

CEILING SUPPORT LAYOUT - EQUIPMENT (ref.)

1 / S2

SCALE: 1/4" = 1'-0"

Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.

PHILIPS
PROVISIONAL

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Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
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R-S2.1

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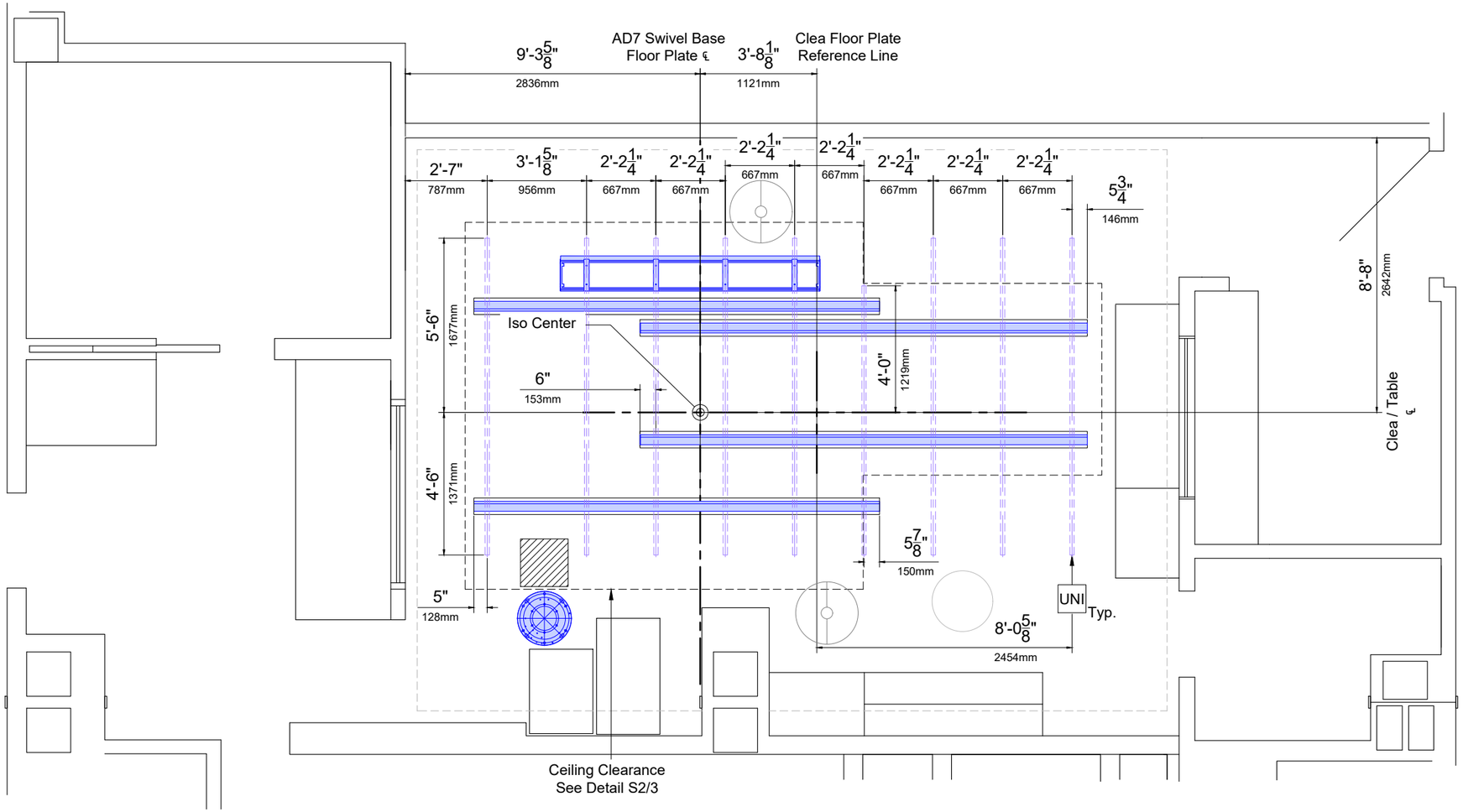

2
S2

CEILING SUPPORT LAYOUT - UNISTRUT (ref.)

SCALE: 1/4" = 1'-0"

Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.

PHILIPS

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Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
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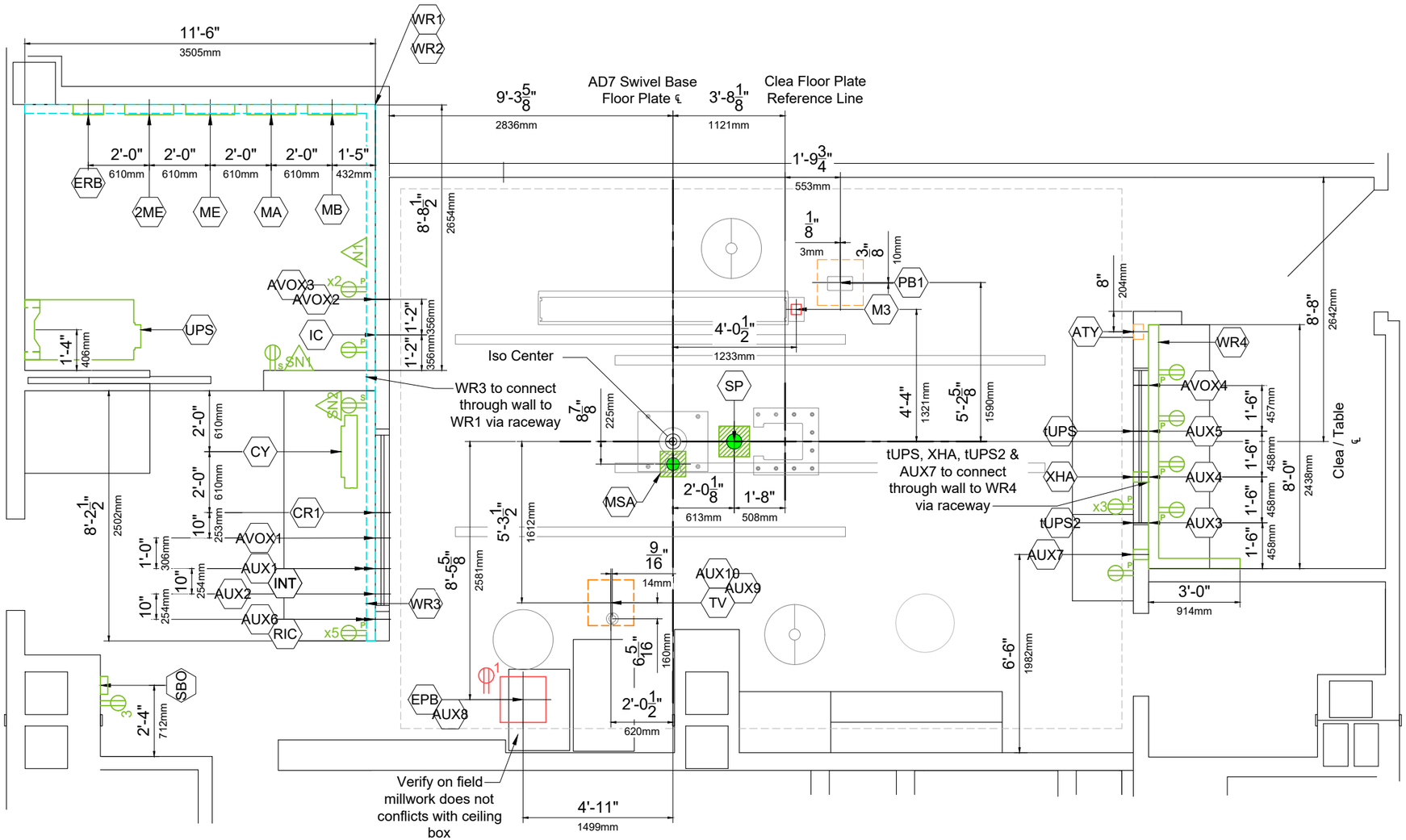
R-S2.2



ELECTRICAL PLAN (ref.)

1 / E1

SCALE: 1/4" = 1'-0"

Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.

PHILIPS

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Project
Azurion 7 B20/12 (Cardiac) - Swivel

VA Medical Center Gainesville
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R-E1.1

NOTE:
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Point to Point Run Lengths

Electrician Requirements and Notes

1. A Greenlee measuring tape (part no. 435) must be provided with raceway (conduit) runs
2. All raceway (conduit) runs must take most direct route point to point.
3. All conduits shall be labeled and identified at each end by run number/destination.
4. For conduit use the minimum bending radius specific to the conduit diameter. All conduit and raceway shall be sweeps.

A Raceway (Conduit) supplied/installed by contractor - Philips cables installed by Philips
B Raceway (Conduit) supplied/installed by contractor - Philips cables installed by contractor
C Raceway (Conduits) and cables supplied and installed by contractor
D Raceway (Conduit) existing - cables supplied and installed by Philips
E Raceway (Conduit) existing - cables supplied by Philips and installed by contractor
F Raceway (Conduit) existing - cables supplied and installed by contractor
G Optional equipment, verify with local Philips Service

* **P** Power (AC) **D** Power (DC) **G** Ground **S** Signal **H** High Tension **C** Cooling Hose **A** Air Supply Hose

	Raceway (Conduit) Run No.	From	To	Raceway (Conduit) Quantity	Cable Type (*)	Minimum Raceway (Conduit) Size	Maximum Point to Point Run Length	Special Requirements	(REQUIRED) Electrician to document point to point measurements
C	1	ERB	Third Party Room Outlets	-	G	-	-	For Injector, Auxiliary Box, Patient Monitoring, Video Networking, etc.	
C	2	ERB		1	G	$\frac{3}{4}$"	-	See Sheet "2-ED" for details.	
A	3	SP	ME	1	C	$2\frac{1}{2}$"	61'	Tube Cooling Hoses.	
A	4	SP	ME	1	H	$2\frac{1}{2}$"	55'	X-Ray high-voltage cables, the use of 90 deg. ells is not acceptable.	
A	5	SP	MA	1	P/G	$1\frac{1}{2}$"	50'	-	
A	6	SP	ME	1	P/G	$1\frac{1}{2}$"	57'	-	
A	7	SP	MA	1	S	2"	50'	-	
A	8	SP	ME	1	S	1"	57'	-	
A	9	MSA	MA	1	P/G	2"	44'	-	
A	10	MSA	MA	1	S	3"	44'	-	
A	11	MSA	MB	1	S	1"	44'	-	
A	12	PB1	2ME	1	C	$2\frac{1}{2}$"	60'	Tube Cooling Hose.	
A	13	PB1	2ME	1	H	2"	62'	X-Ray high-voltage cables, the use of 90 deg. ells is not acceptable.	
A	14	PB1	MA	1	P/G	$1\frac{1}{2}$"	59'	-	
A	15	PB1	2ME	1	P/G	$1\frac{1}{2}$"	63'	-	
A	16	PB1	MA	1	S	3"	59'	-	
A	17	PB1	2ME	1	S	1"	63'	-	
A	18	TV	MA	1	P	$1\frac{1}{2}$"	60'	-	
A	19	TV	MB	1	P/G	$1\frac{1}{2}$"	60'	-	
A	20	TV	MB	1	S	$1\frac{1}{2}$"	60'	For FlexVision XL.	
A	21	TV	CY	1	S	1"	60'	-	
A	22	ATY	TV	1	S	1"	60'	-	
A	23	CY	MA	1	S	3"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.	
A	24	CY	MB	1	S	$1\frac{1}{2}$"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.	
A	25	CY	MA	1	P/G	2"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.	
A	26	CY	MB	1	S	2"	86'	Conduits to land on wall raceway adjacent to CY. For Philips Workstations. Via raceway.	
A	27	ATY	MA	1	S	2"	47'	-	
C	28	SN1	SN2	1	S	1"	-	For Service Hub. Dedicated conduit and CAT 6 network connection terminated at each end (not allowed with x-ray system cabling).	
C	29	WL	MA	1	P	PER NEC	PER NEC	X-ray Warning Light Refer to Detail 3-ED	
C	30	RL	MA	1	P	PER NEC	PER NEC	Exam Room Light Refer to Detail 3-ED	

PHILIPS

PROVISIONAL

Project
Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
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Drawn By: Alison Baillargeon

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N-SOU250567_RevC
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Order: 6600762648

R-EC1

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03.31.2025

Point to Point Run Lengths

Electrician Requirements and Notes

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F Raceway (Conduit) existing - cables supplied and installed by contractor
G Optional equipment, verify with local Philips Service

* **P** Power (AC) **D** Power (DC) **G** Ground **S** Signal **H** High Tension **C** Cooling Hose **A** Air Supply Hose

	Raceway (Conduit) Run No.	From	To	Raceway (Conduit) Quantity	Cable Type (*)	Minimum Raceway (Conduit) Size	Maximum Point to Point Run Length	Special Requirements	(REQUIRED) Electrician to document point to point measurements
G	31	MSA	PHY	1	S	3"	-	For future options (Patient Monitoring). Deleted 12/04/2024	
A	32	AUX1	MB	1	S	1 1/2"	86'	Via raceway.	
A	33	AUX2	MB	1	S	1 1/2"	86'	Via raceway.	
A	34	AUX3	MB	1	S	1 1/2"	86'	-	
A	35	AUX4	MB	1	S	1 1/2"	86'	-	
A	36	AUX5	MB	1	S	1 1/2"	86'	-	
A	37	AUX6	MB	1	S	1 1/2"	86'	Via raceway.	
A	38	AUX7	MB	1	S	1 1/2"	86'	-	
C	39	MSA	TER	1	-	2 1/2"	-	Termination point for for MSA. Deleted 12/04/2024	
A	40	INT	EPB	1	P	1 1/2"	75'	Conduit opening must be covered if the IntraSight system is planned for future installation.	
A	41	INT	EPB	1	S	1 1/2"	75'	Conduit opening must be covered if the IntraSight system is planned for future installation.	
C	42	Power Supply	M3	1	P	3/4"	-	Project electrician to land 120 - 240 VAC, 50 - 60 Hz in M3 terminal block. Light requires: Plus 24, Minus 24, and Ground.	
A	43	EPB	WR2	1	G	1"	-	Wire to be connected to the ERB.	
A	44	EPB	CY	1	S	1"	78'	-	
A	45	EPB	MB	1	S	1"	68'	-	
C	46	EPB	WR3	1	S	2 1/2"	-	*For 3rd party equipment.Use existing conduit.	
G	47	EPB	WR3	1	P	2 1/2"	-	*For 3rd party equipment. Use existing conduit.	
C	48	WR1	WR3	1	P	2 1/2"	-	*For 3rd party equipment to control room. Use existing conduit.	
G	49	WR1	WR3	1	S	2 1/2"	-	*For 3rd party equipment to control room. Use existing conduit.	
A	50	IC	MSA	1	S	3"	65'	For Table Mounted Injector.	
A	51	IC	RIC	1	S	3"	90'	Via raceway.	
A	52	AVOX1	MB	1	S	1 1/2"	86'	Via raceway.	
A	53	AVOX2	MB	1	S	1 1/2"	86'	Via raceway.	
A	54	AVOX3	MB	1	S	1 1/2"	86'	Via raceway.	
A	55	AVOX4	MB	1	S	1 1/2"	86'	-	
C	56	Power Panel	CB2	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	57	CB2	UPS	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	58	UPS	CB	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	59	CB	WR2	1	P/G	Per N.E.C.	Per N.E.C.	4 AWG minimum phase/ground wire size. Final connections to terminate at MA terminal block.	
C	60	SBO	UPS	1	S	Per N.E.C.	Per N.E.C.	For Signaling Box Option. Cable by electrician.	

PHILIPS

PROVISIONAL

Project
Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
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Drawn By: Alison Baillargeon

Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/25/2025
Quote: Q-00552854
Order: 6600762648

R-EC2

NOTE:
ALL SHEETS IN THE "R" SERIES ARE REFERENCES TO VIEWS IN THE MAIN SET AND ARE MEANT TO BE PLOTTED AT 11x17

03.31.2025

[redacted] **Point to Point Run Lengths** [redacted]

Electrician Requirements and Notes

1. A Greenlee measuring tape (part no. 435) must be provided with raceway (conduit) runs
2. All raceway (conduit) runs must take most direct route point to point.
3. All conduits shall be labeled and identified at each end by run number/destination.
4. For conduit use the minimum bending radius specific to the conduit diameter. All conduit and raceway shall be sweeps.

A Raceway (Conduit) supplied/installed by contractor - Philips cables installed by Philips
B Raceway (Conduit) supplied/installed by contractor - Philips cables installed by contractor
C Raceway (Conduits) and cables supplied and installed by contractor
D Raceway (Conduit) existing - cables supplied and installed by Philips
E Raceway (Conduit) existing - cables supplied by Philips and installed by contractor
F Raceway (Conduit) existing - cables supplied and installed by contractor
G Optional equipment, verify with local Philips Service

* **P** Power (AC) **D** Power (DC) **G** Ground **S** Signal **H** High Tension **C** Cooling Hose **A** Air Supply Hose

	Raceway (Conduit) Run No.	From	To	Raceway (Conduit) Quantity	Cable Type (*)	Minimum Raceway (Conduit) Size	Maximum Point to Point Run Length	Special Requirements	(REQUIRED) Electrician to document point to point measurements
B	61	UPS	MA	1	S	Per N.E.C.	Per N.E.C.	UPS communication cable by Socomec.	
C	62	UPS	ST	1	S	Per N.E.C.	Per N.E.C.		
C	63	CB	ST	1	P	Per N.E.C.	Per N.E.C.		
G	64	CB2	ST	1	P	Per N.E.C.	Per N.E.C.		
~~C~~	~~65~~	~~TV2~~	~~MB~~	~~1~~	~~S~~	~~1 1/2"~~	~~86'~~	~~For TV2 (Third Party 27" Monitor)~~ Deleted 12/04/2024	
~~C~~	~~66~~	~~TV3~~	~~MB~~	~~1~~	~~S~~	~~1 1/2"~~	~~86'~~	~~For TV3 (Third Party 27" Monitor)~~ Deleted 12/04/2024	
A	67	SN1	MB	1	S	1"	26'		
A	68	MSA	XHA	1	S	2 1/2"	100'	For Xper Hemo App.Use existing 3" conduit.	
A	69	MSA	UPS	1	P	1 1/2"	100'	For Xper Hemo App.Use existing 3" conduit.	
A	70	Boom B	XHA	1	P	1 1/2"	100'	For Xper Hemo App.	
A	71	Boom B	AUX4	1	S	1"	98'	For Xper Hemo App.	
A	72	AVOX2	Boom A1	1	S	1 1/2"	86'		
A	73	AVOX3	Boom B1	1	S	1 1/2"	86'		

PHILIPS

PROVISIONAL

Project
Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Alan Rooks
Contact Number: (904) 510-1874
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Drawn By: Alison Baillargeon

Project Details
Drawing Number
N-SOU250567_RevC
Date Drawn: 8/25/2025
Quote: Q-00552854
Order: 6600762648

R-EC3

NOTE:
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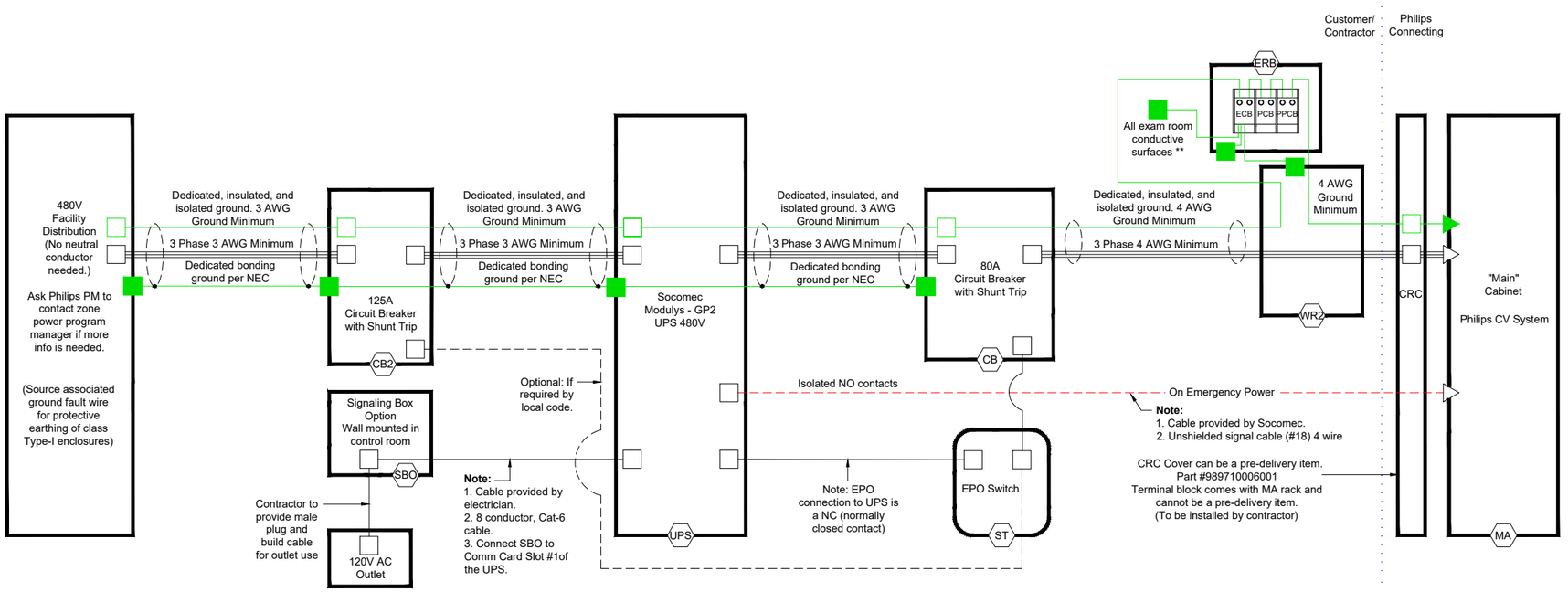

Legend

- Wiring and Connections made by Contractor unless otherwise noted. Isolated from metal casing.
- Bond / Safety ground wiring and Connections made by Contractor. Connections that are connected to metal casing (e.g. outer housing, busbar).
- Insulated / Isolated Ground wiring and Connections made by Contractor for equipment grounding conductor. Isolated from metal casing.
- Wiring Connection made by Philips
- Ground wiring Connection made by Philips
- Supply conductors installed together with equipment grounding conductor in the raceway (conduit).

Notes

- Wiring and circuit sizes from source supply must meet Philips regulation requirements and must be determined by contractor to meet building conditions and local codes. 3 Phase + PE (Protective Earth).
- RAP needs to be mounted to the wall by contractor.
- Wire sizes will be dependent on:
  1. Lug size of UPS and MA terminal block
  2. The tolerance on the allowed nominal mains voltage shall not exceed ±10%.
  3. MA CRC Terminal Block can only accept 4 AWG.
- Full UPS assembly, all wiring, installation, Battery Module/Power Module insertion (for modular systems), Seismic brackets (if applicable), and startup in bypass is the responsibility of the electrician unless it is specifically stated otherwise. If electrical work is not completed when commissioning is scheduled there may be a second visit scheduled resulting in delay of timeline and additional cost.
- All Power Cables shall be in separate conduits from control and communication cables.
- ** This equipment may be used for invasive procedures; therefore, the area to be installed is classified as critical care area per NFPA-99 and NFPA-70 (NEC). These documents specify maximum touch voltages and ground impedance in these areas.
- ** The GSSNA specified "Equi-Potential Reference Bar (ERB)" serves as a ground reference for GSSNA equipment. It may also serve as the "Reference Grounding Point" of the room as defined in NFPA 99-3.3.140 for non-Philips Healthcare equipment.

(25.1)

5 ED ELECTRICAL SCHEMATIC WITH SOCOMEC LLF DETAIL (ref.)

SCALE: N.T.S.

PHILIPS
PROVISIONAL

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VA Medical Center
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Room: C246-1

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Drawn By: Alison Baillargeon

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R-ED.5

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