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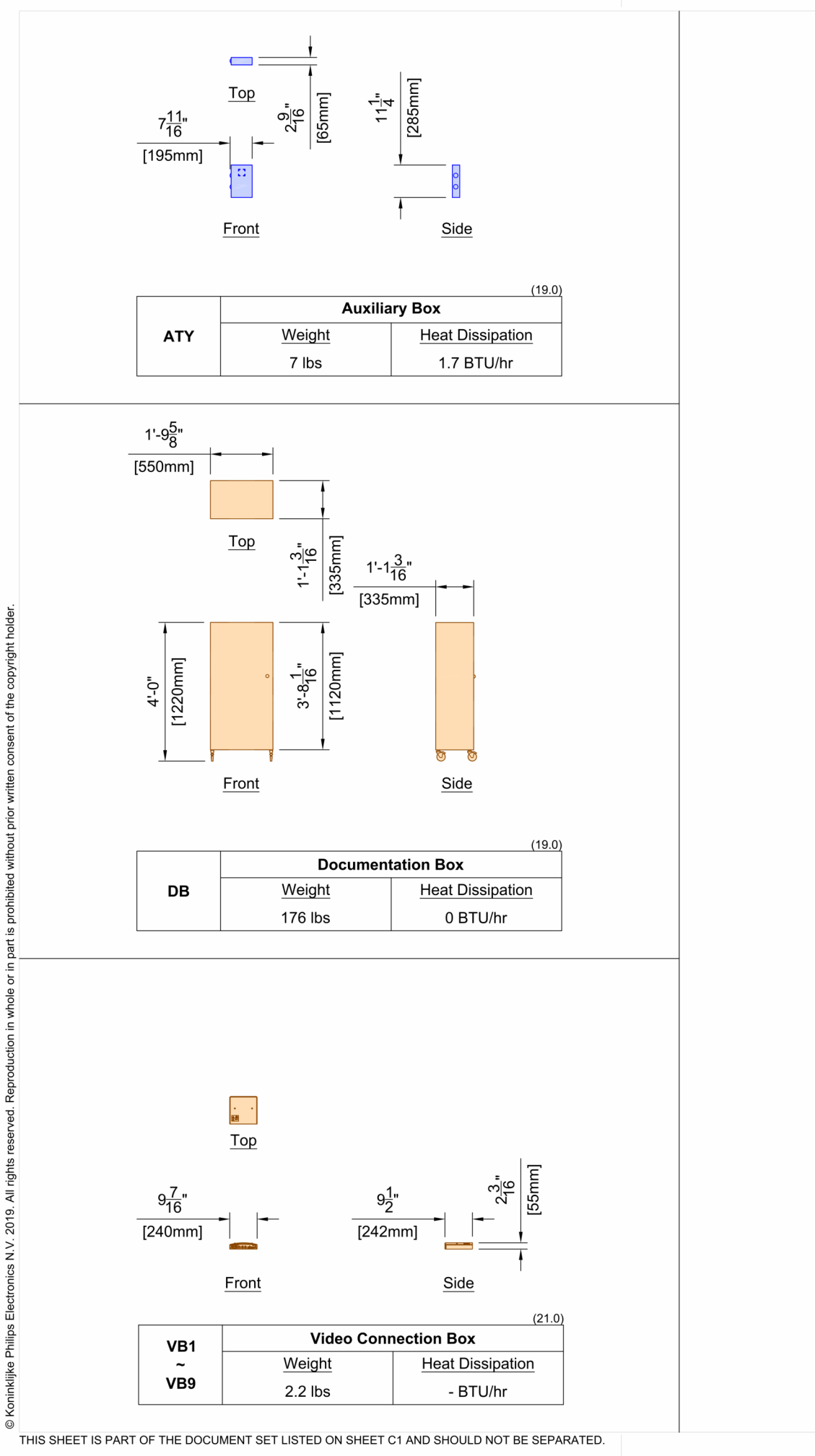
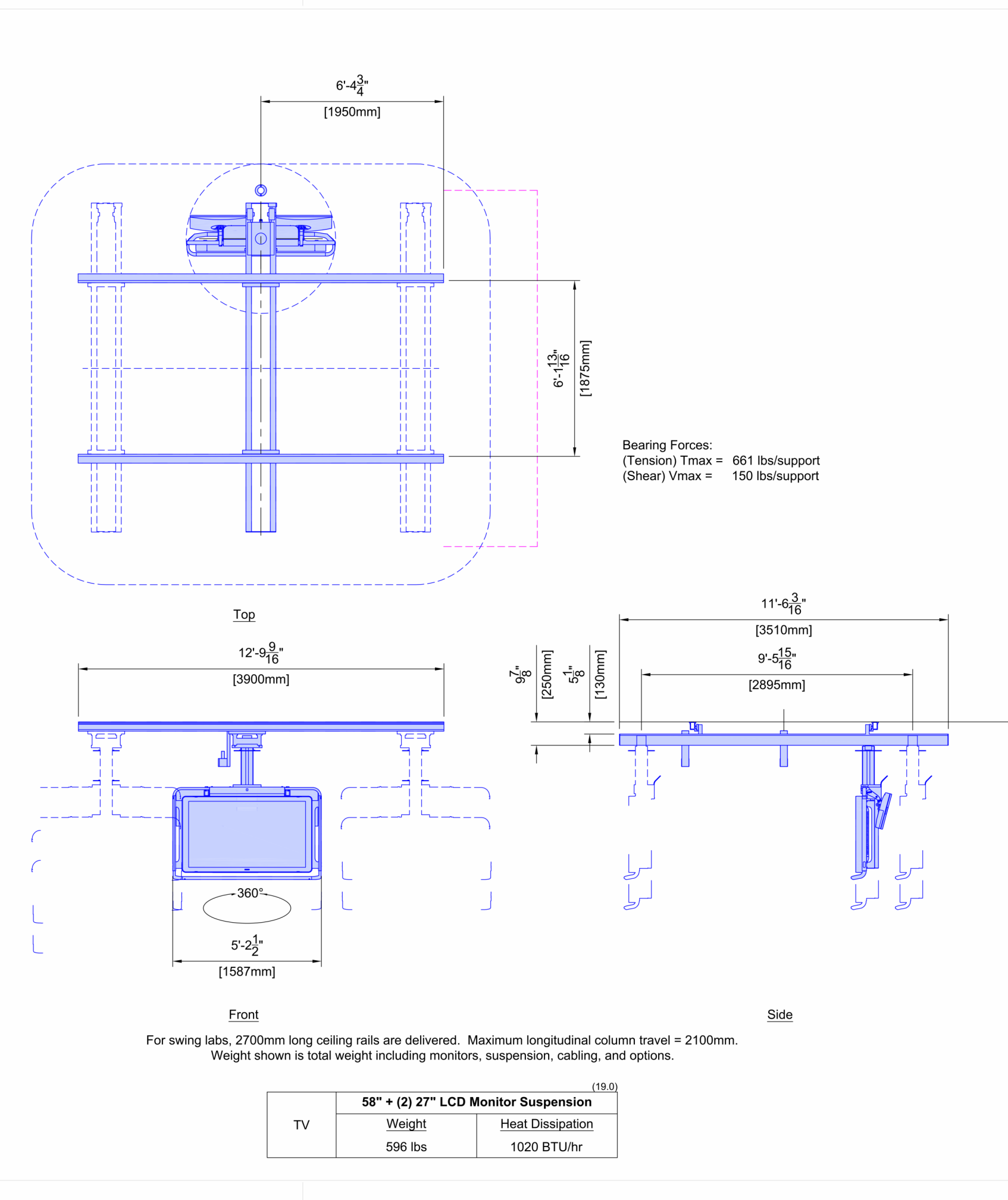
Project: Azurion 7 B2012, B2015 - Swivel -  
Catalyst Intermountain Medical Center  
Salt Lake City, UT  
Room: Lab 3

PHILIPS Contacts  
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Drawn By: Isabelle Barco  
Order: 6605559748\_010000

Project Details  
Drawing Number: N-WES210091 E  
Date Drawn: 4/5/2023  
Order: 6605559748\_010000

AD5

05.27.2022



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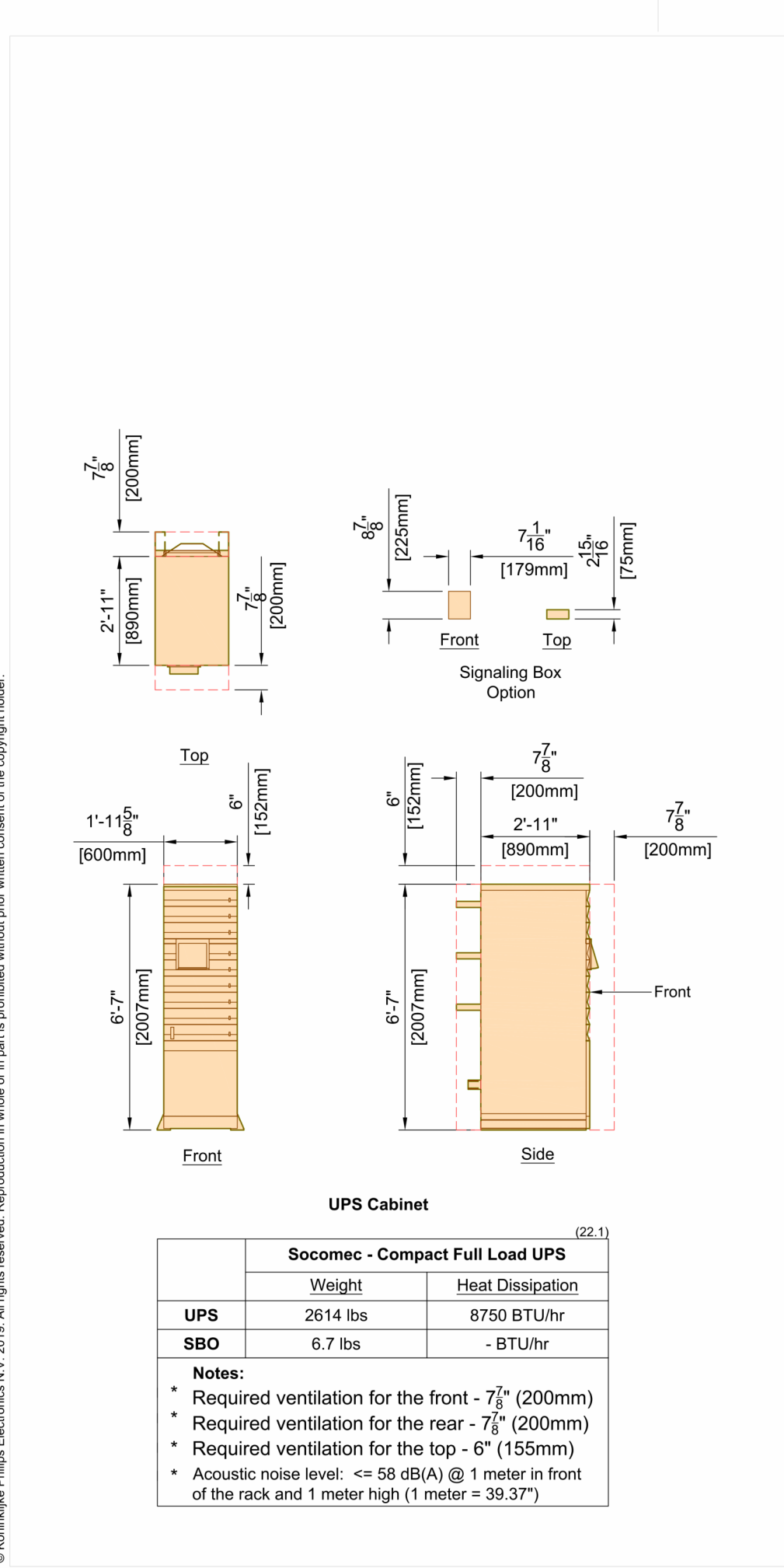
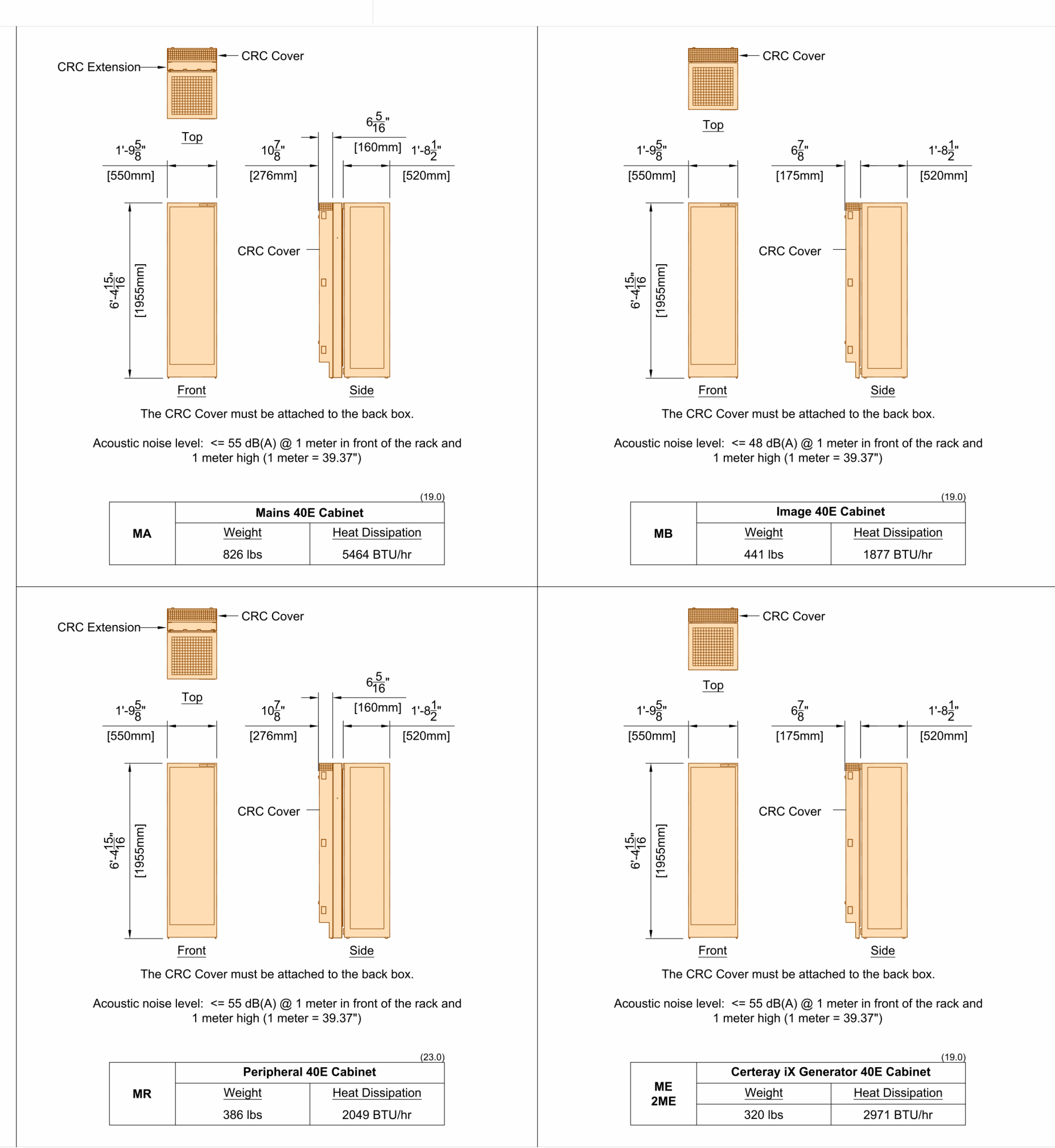
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AD4

05.27.2022



Intermountain Health  
Intermountain Medical Center  
Angio Lab #3 Remodel Project

5121 South Cottonwood Street  
Murray, UT 84107

NJRA Project # 22247.00  
Construction Documents June 30, 2023

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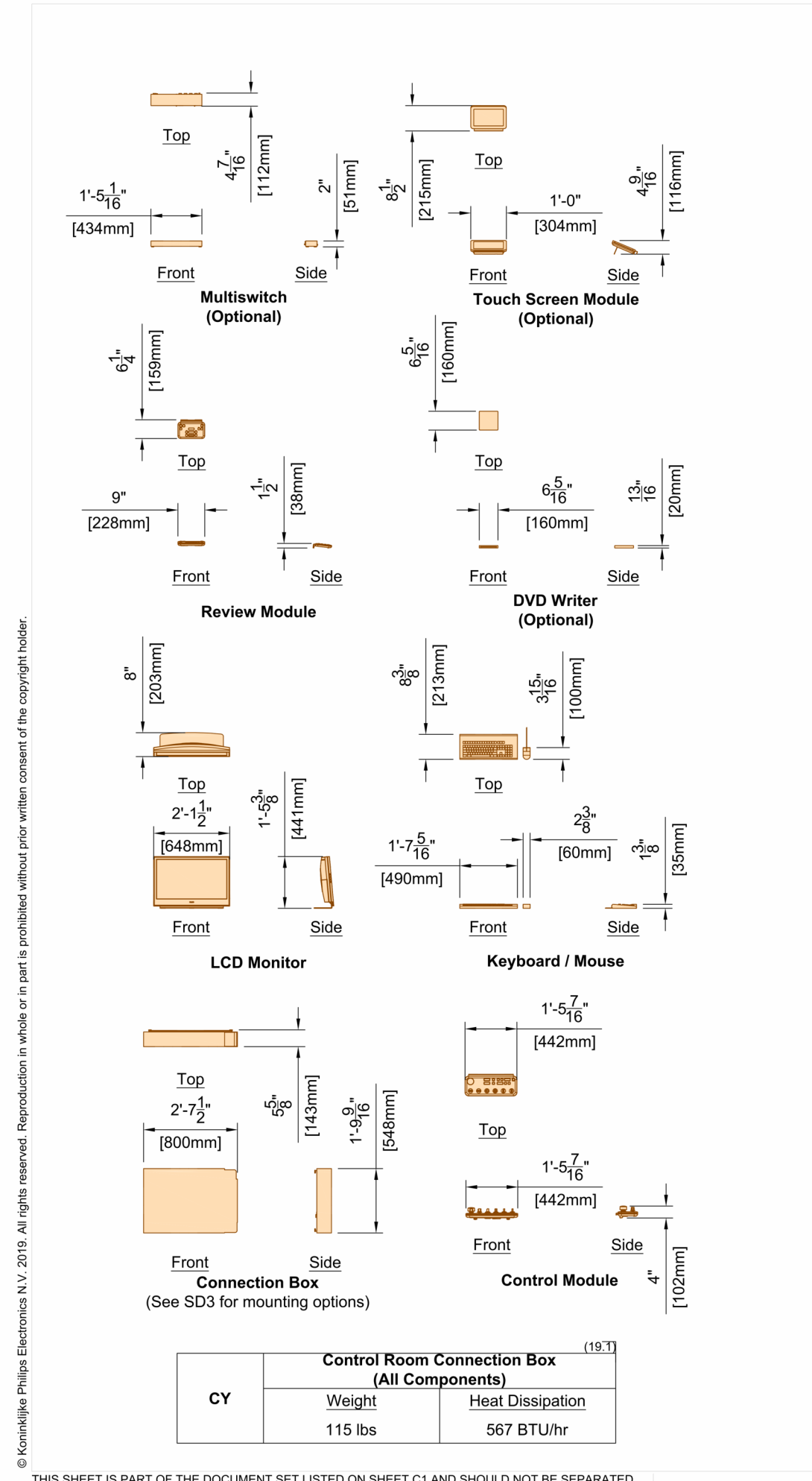
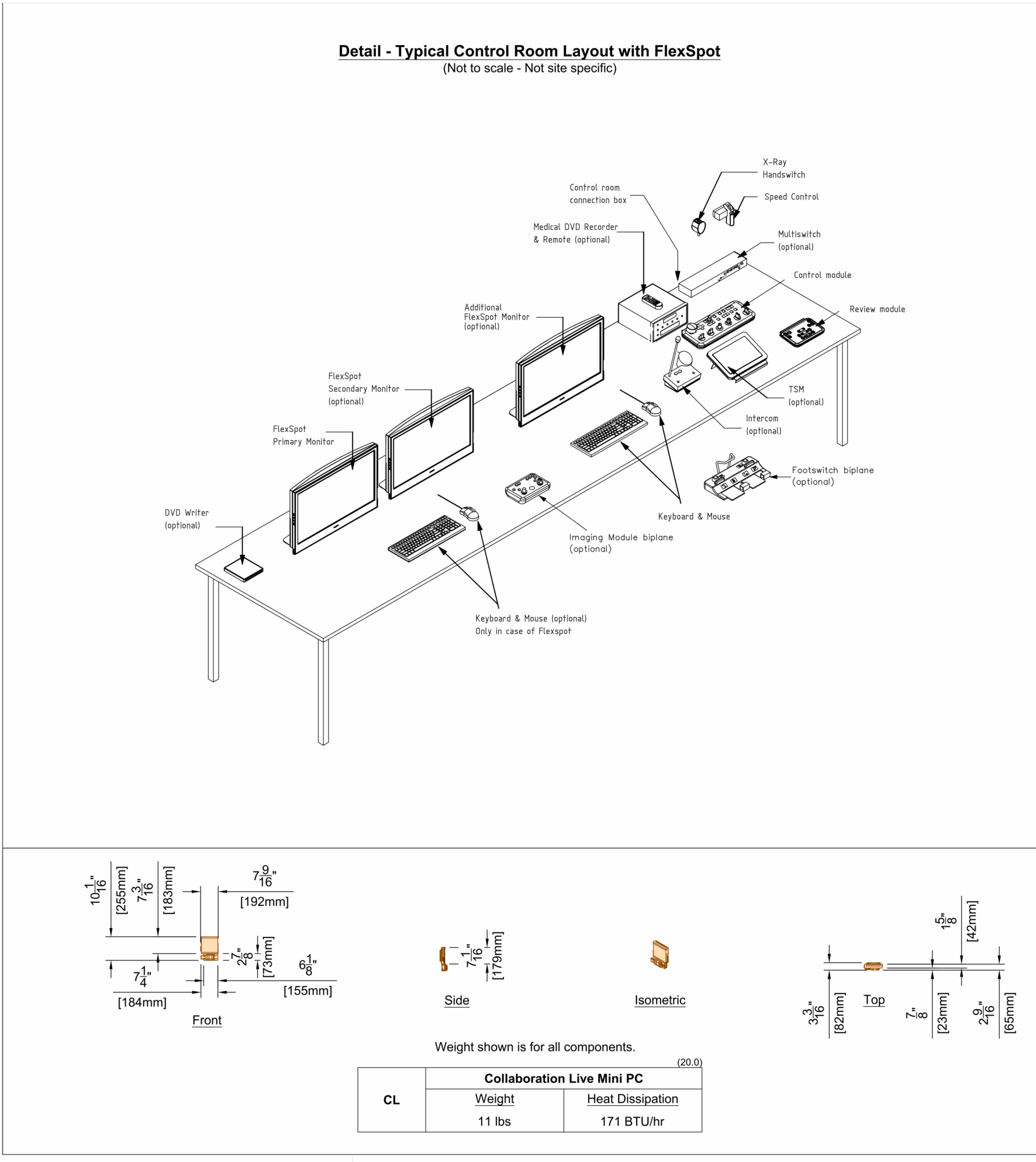
Project: Azurion 7 B2012, B2015 - Swivel -  
Catalyst Intermountain Medical Center  
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AD7

05.27.2022



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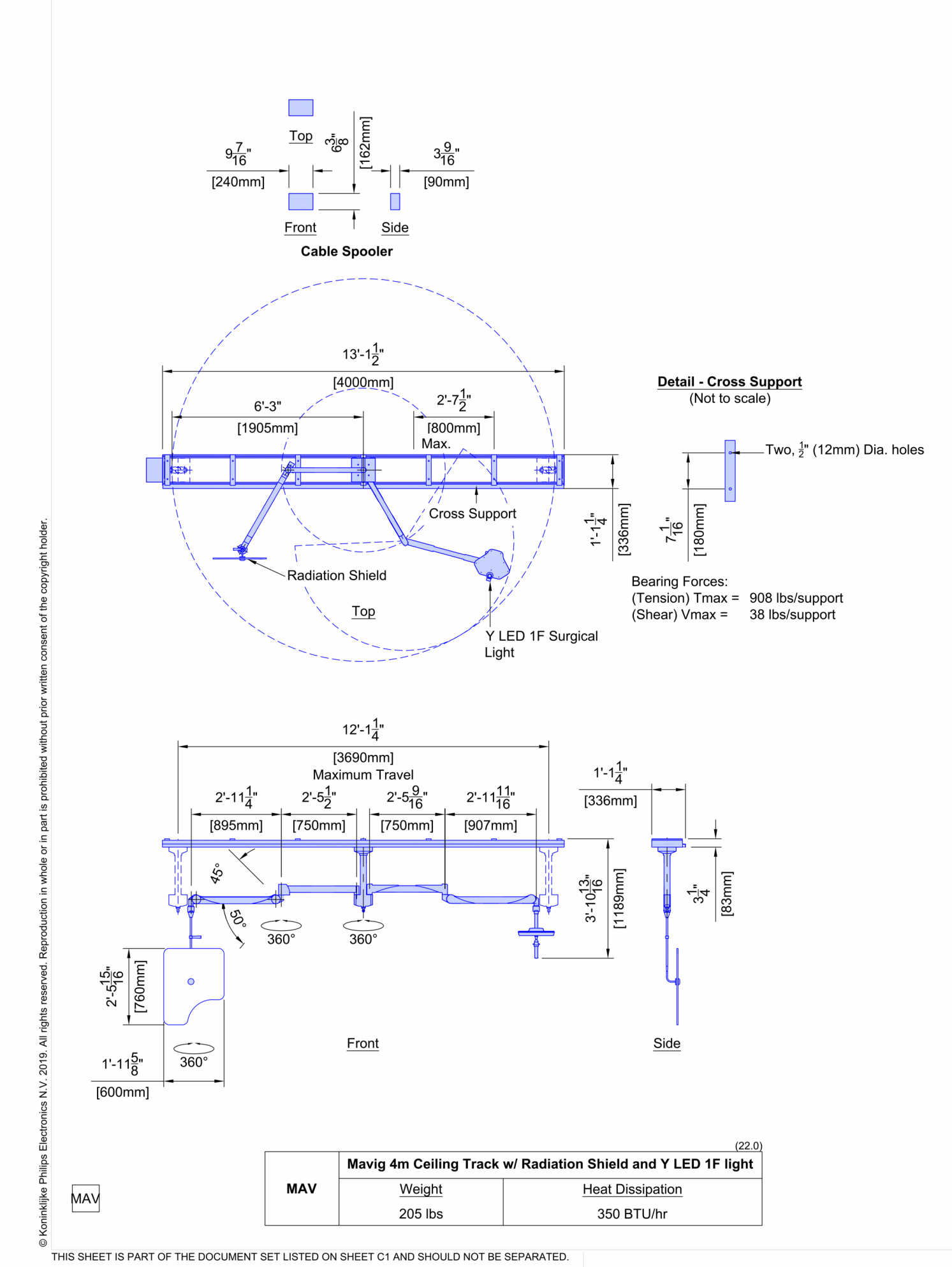
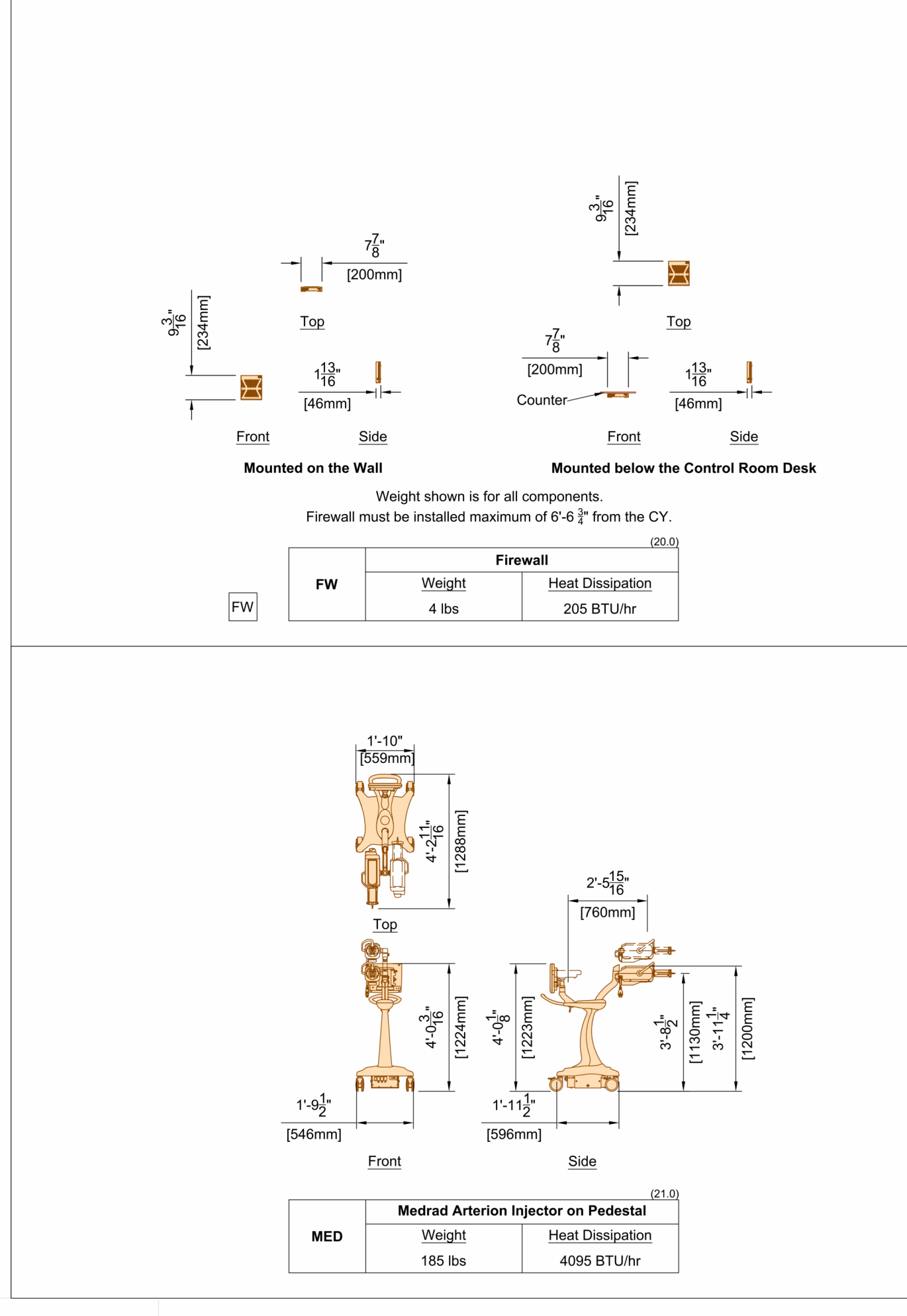
Project: Azurion 7 B2012, B2015 - Swivel -  
Catalyst Intermountain Medical Center  
Salt Lake City, UT  
Room: Lab 3

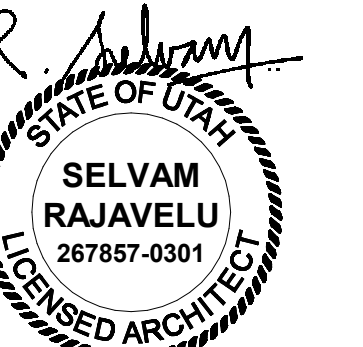
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Project Details  
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Order: 6605559748\_010000

AD6

05.27.2022





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### 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.

**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, information regarding the approved method of structural support apparatus, fasteners and anchorage to which Philips will attach equipment. The floor surface upon which Philips equipment is to be placed/anchored shall be flat and level to within  $\pm 2$ mm over a length of 39" (1m).

**4. 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 structural support.  
c. The structural support apparatus surface to which Philips equipment is to be attached, shall have horizontal equipment attachment surfaces parallel, square and level to within .230" (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.  
e. Fasteners/nuts (i.e., bolts, spring nuts, lock and flat washers) and strip closures shall be provided by the customer.

**5. 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.

**6. Ceiling Obstructions**  
There shall be no obstructions that project below the finished ceiling in the area covered by ceiling suspended equipment travel.

**7. 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 anchorbolt systems to facilitate the removal of a cabinet for maintenance. Do not use threaded rod/adhesive anchor systems. Consult with Philips regarding any anchor system issues. Philips equipment must be electrically isolated from anchorage.

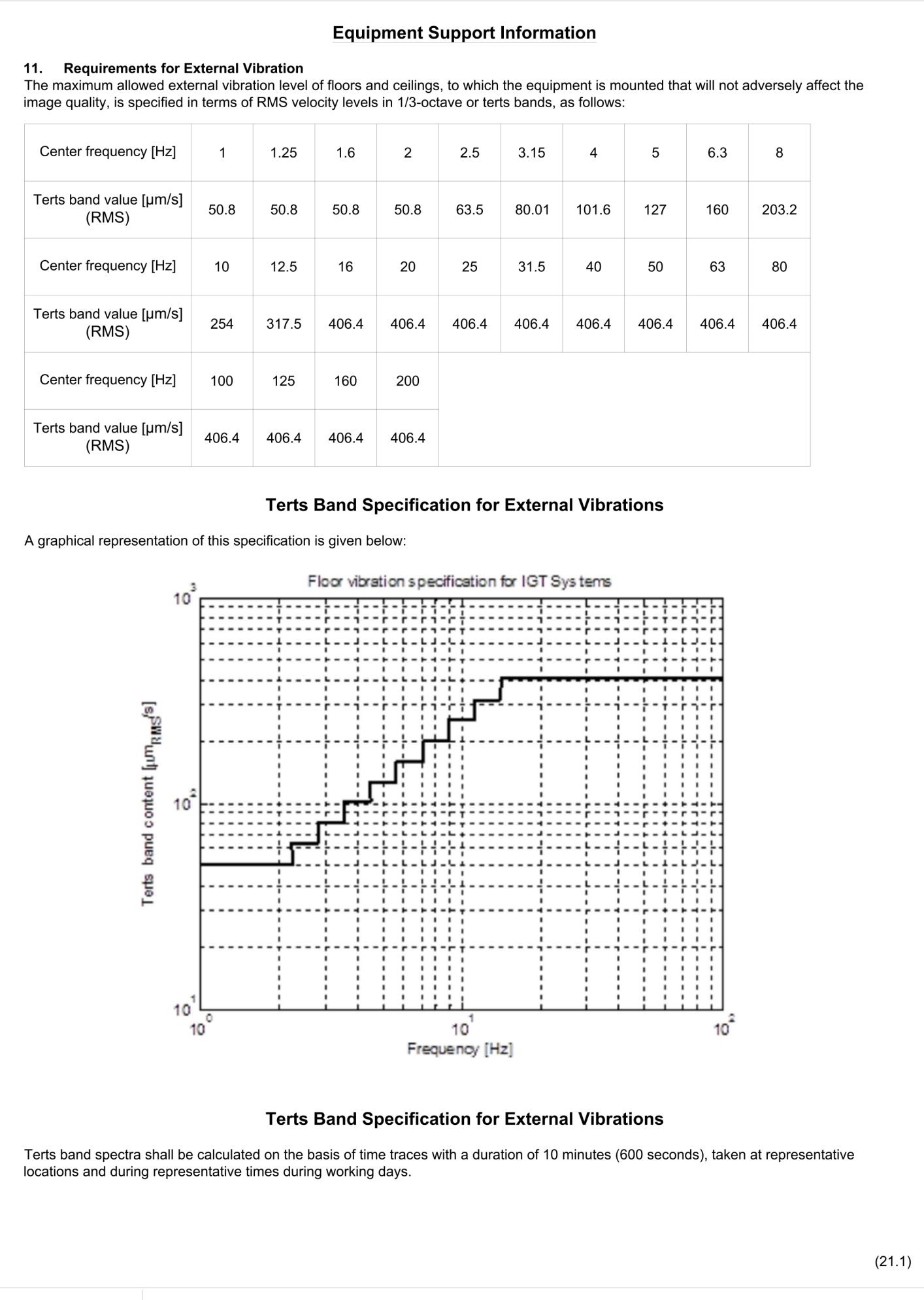
**8. Floor Obstructions/ Floor Coverings**  
There shall be no obstructions on the floor (sliding door tracks, etc.) within the serviceability area of the Philips technical cabinets. Floor must be clear to allow cabinets to be pulled away from the wall for service. Technical equipment room floor shall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

**9. 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.

**10. Stiffness Requirements of Ceiling**  
Horizontal Stiffness: preferred 10,000,000 Newton/meter - 57.1 kN/m, minimal 6,000,000 Newton/meter - 34.2 kN/m  
Vertical Stiffness: preferred 10,000,000 Newton/meter - 57.1 kN/m, minimal 6,000,000 Newton/meter - 34.2 kN/m  
Rotation Stiffness: minimal 20,000,000 Newtonmeter/Rad - 177,014 (kN m)/Rad

For Clea Stand (1160 kg or 11600 N): the maximum allowed deflection of the ceiling and/or floor construction is 1.93 mm.  
For Poly G Stand (1080 kg or 10800 N): the maximum allowed deflection of the ceiling construction is 1.80 mm.  
For Poly G Stand (873 kg or 8730 N): the maximum allowed deflection of the floor construction is 1.46 mm.  
For Larc Stand (830 kg or 8300 N): the maximum allowed deflection of the ceiling construction is 1.39 mm.  
For FlexArm (FlexArm weighs 1250 kg and ceiling stiffness is 6,000,000 Newton/meter). Max allowed deflection of ceiling structure is 2.1mm.  
For FlexMove Clea Stand (1860 kg or 18600 N): the maximum allowed deflection of the ceiling construction is 3.10 mm.

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.



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### See S1 for Floor & Wall Support Layout

**Notes:**

- 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 in this document, 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.

### Floor & Wall Support Legend

Item Number	Description	Detail Sheet
B	CY Support in wall for Control Room Connection Box (CY)	SD3
A	CY Anchors in wall for Control Room Connection Box (CY)	SD3
D	MSA AD7 Swivel Floor Plate	SD1
D	SP Floor Clea Floor Plate	SD1
B	FW Firewall	AD6

### See S2-S3 for Ceiling Support Layout

### Ceiling Support Legend

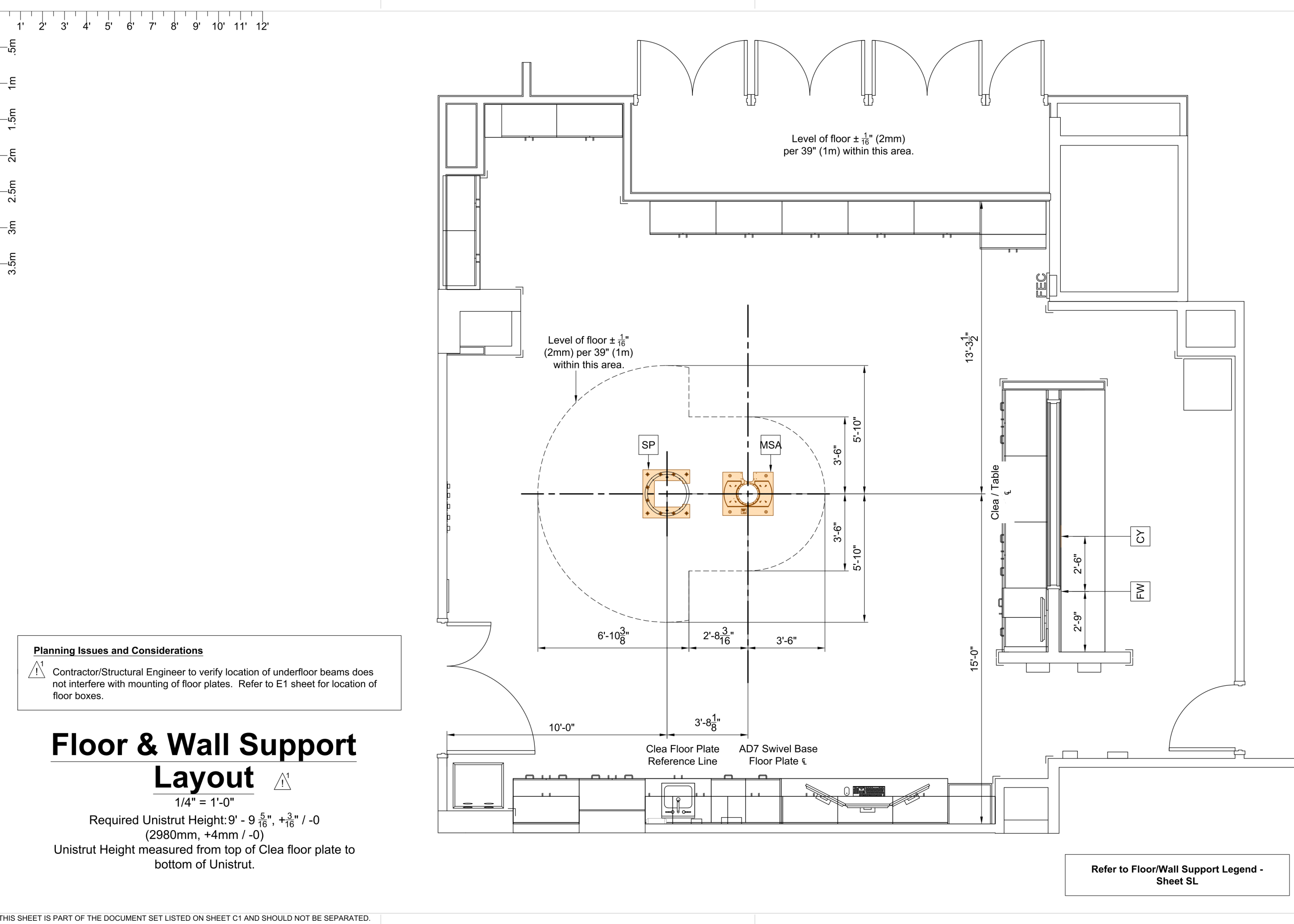
Item Number	Description	Detail Sheet
A	PB1 2 - Philips Larc N Neuro Rails	SD2
A	TV 2 - Philips Monitor Equipment Rails	SD2
B	UNI Unistrut (P1000/P1001 in meeting Philips ceiling requirements, geometry of channel and geometry of fixing block) - Bottom of Unistrut 1/4" (6mm) to 1/2" (13mm) Below Finished Ceiling	SD2
A	MAN Moving 4m Ceiling Track	AD6

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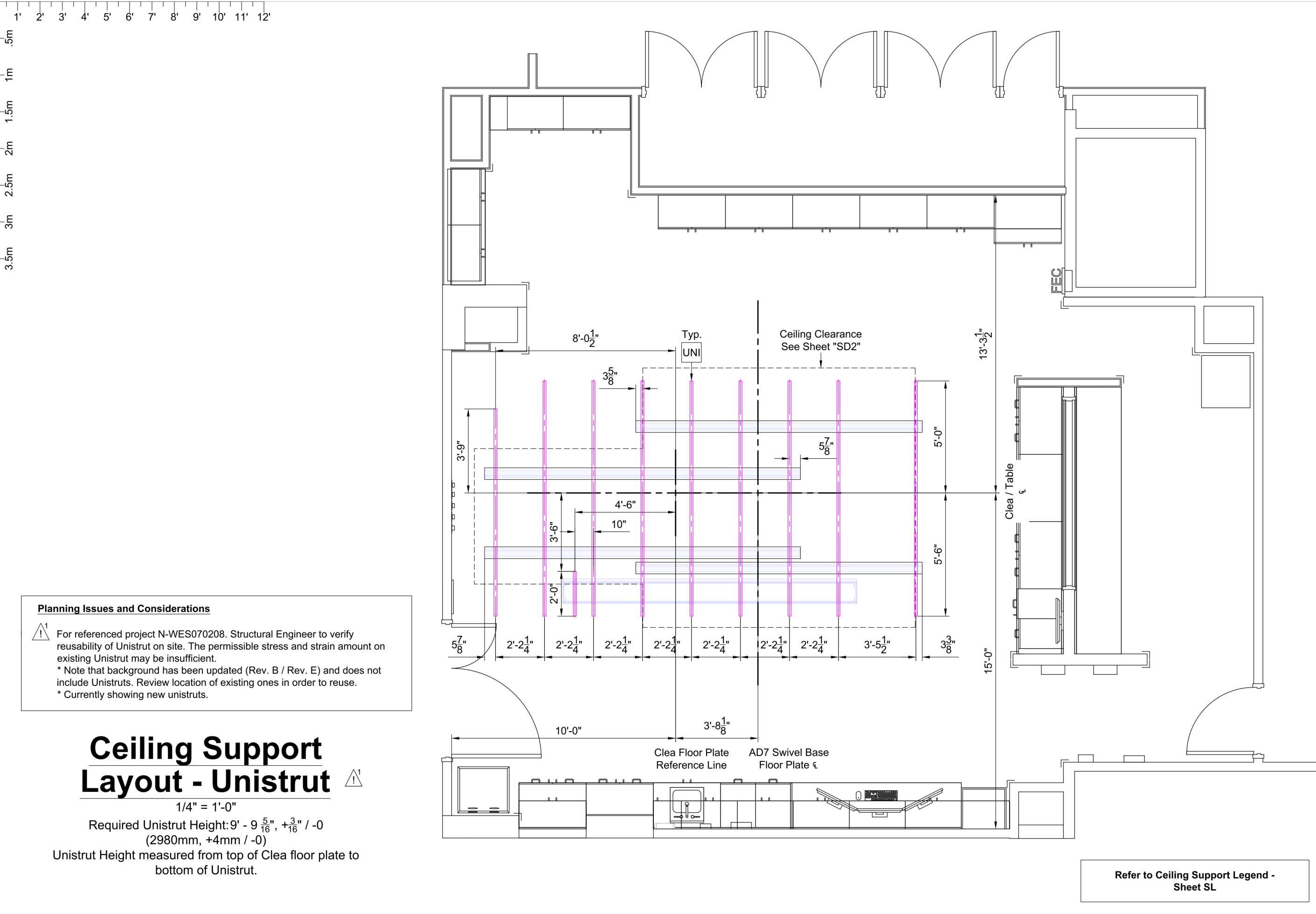


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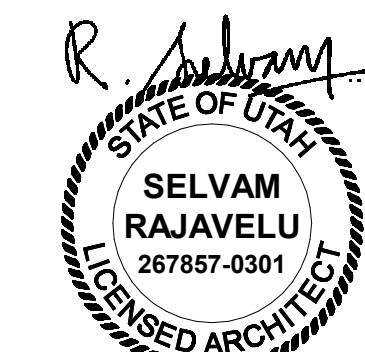
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Intermountain Health  
Intermountain Medical Center  
Angio Lab #3 Remodel Project

NJRA Project # 22247.00  
Construction Documents June 30, 2023

Philips  
Equipment

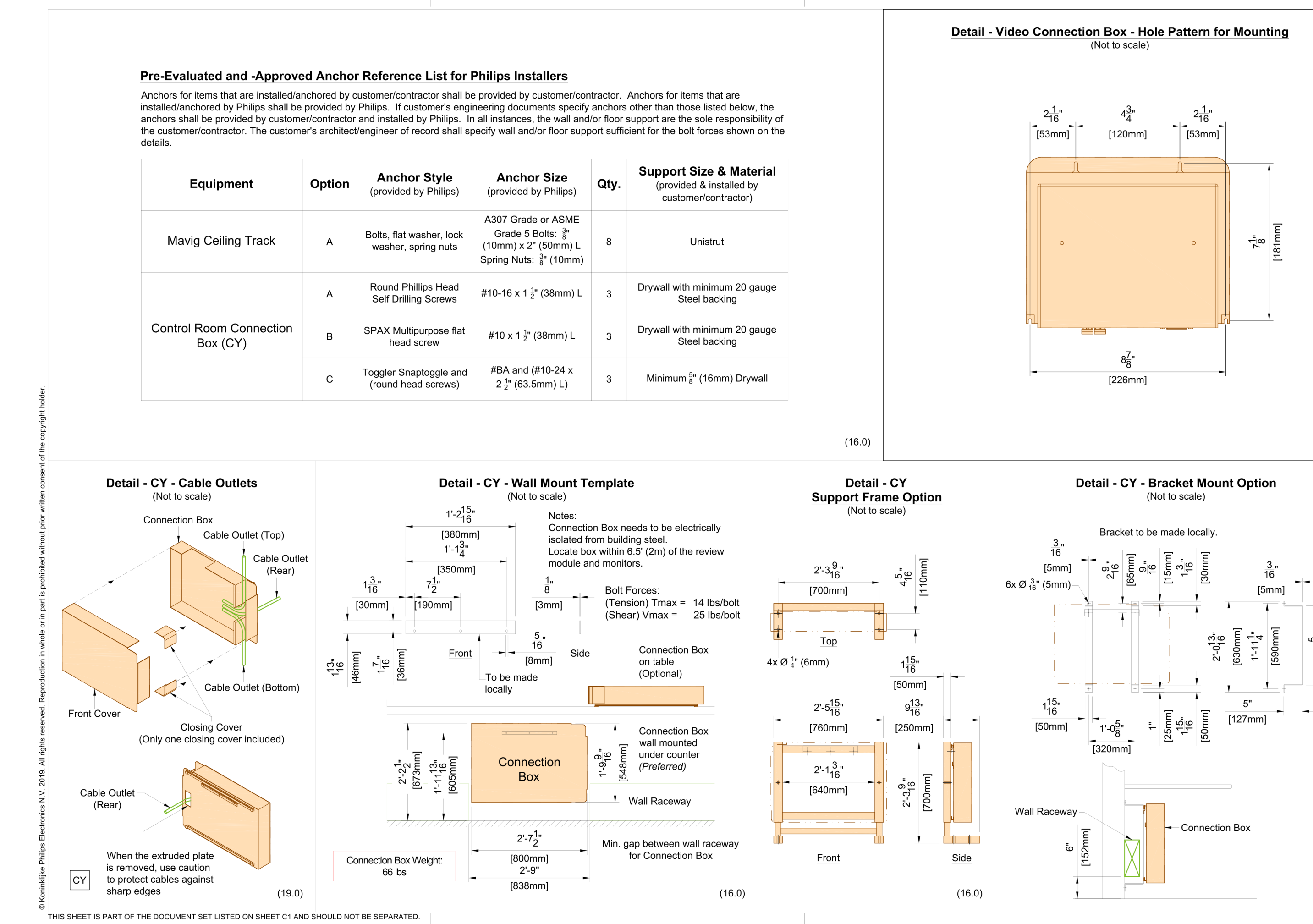
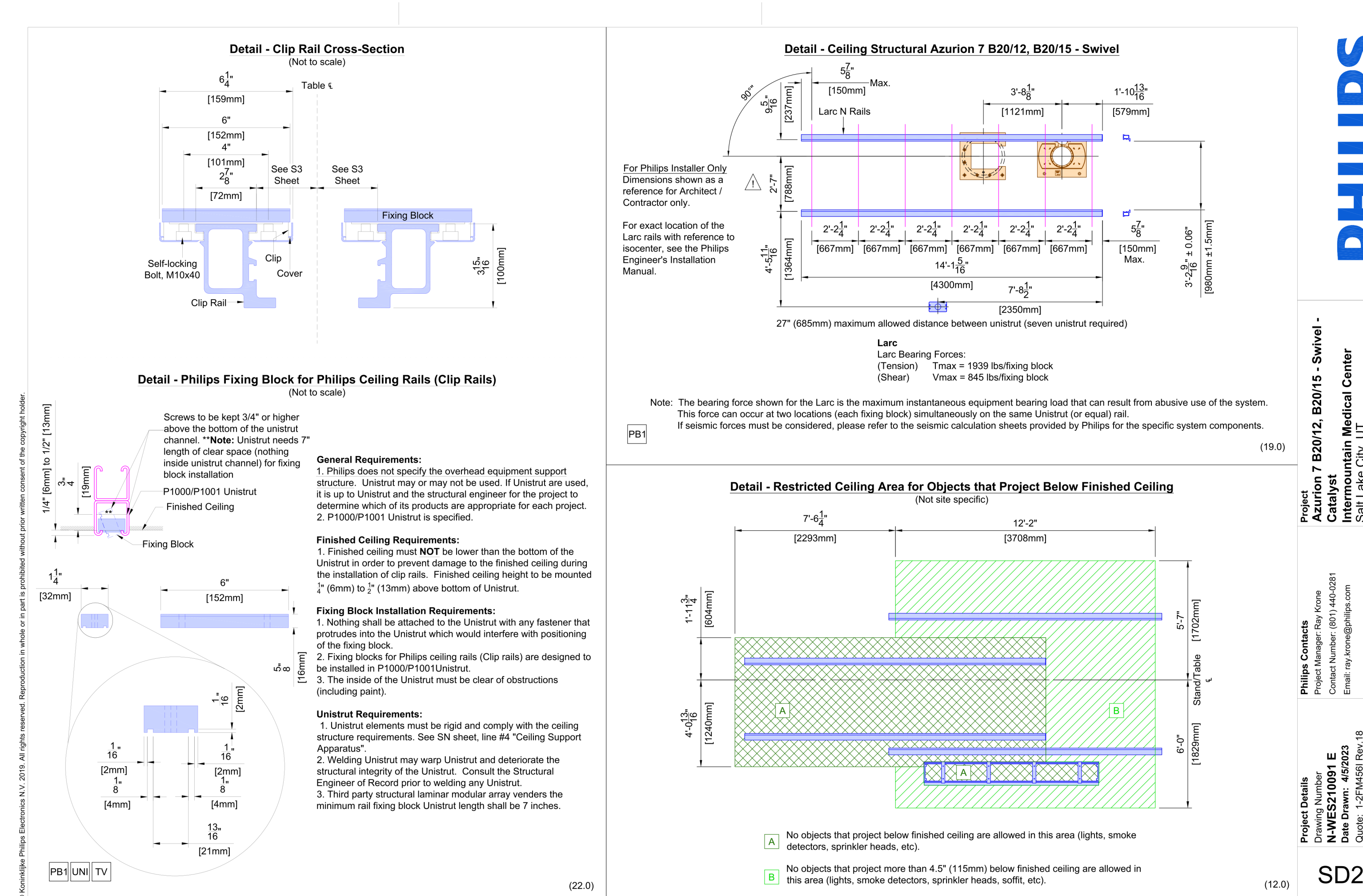
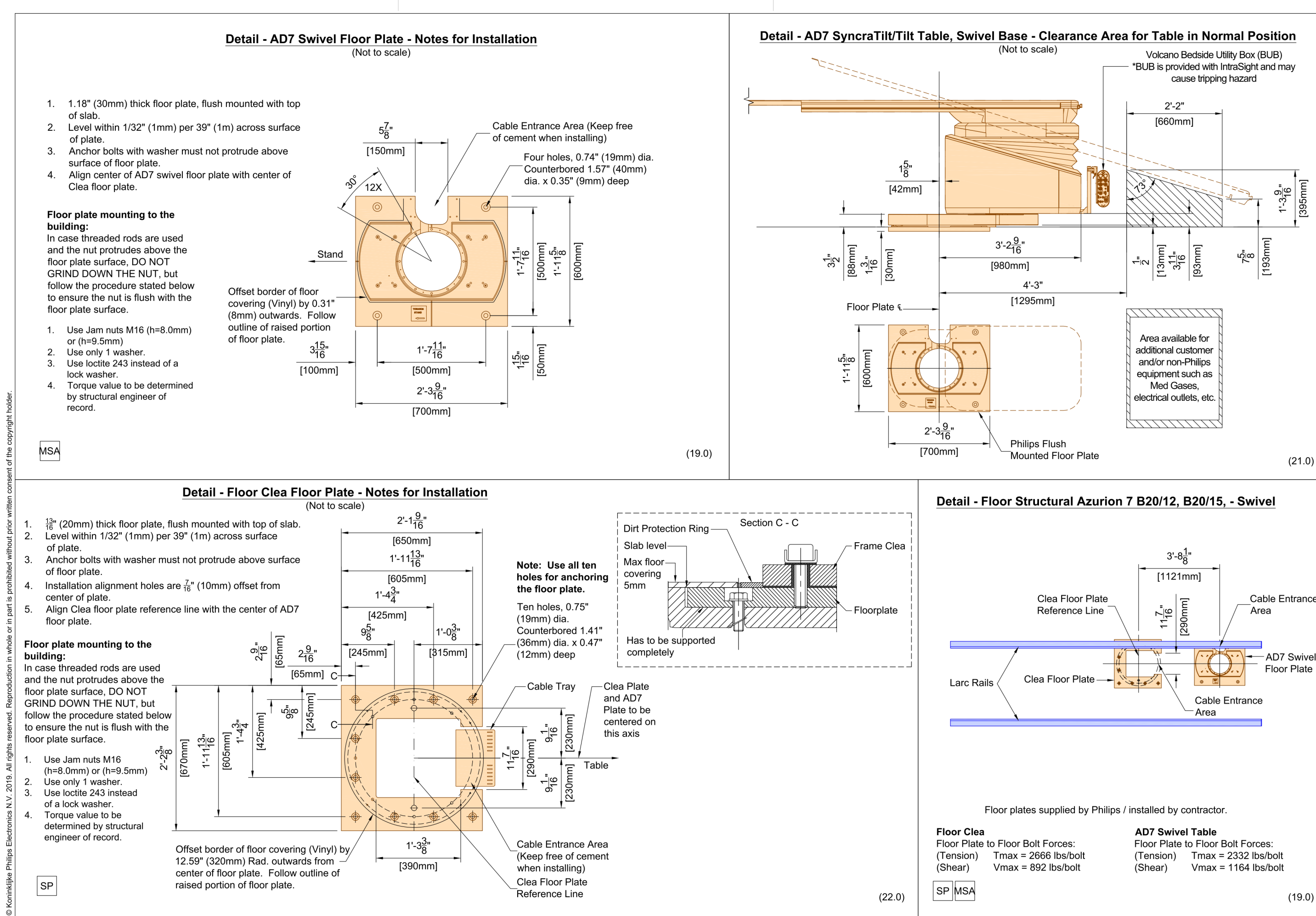
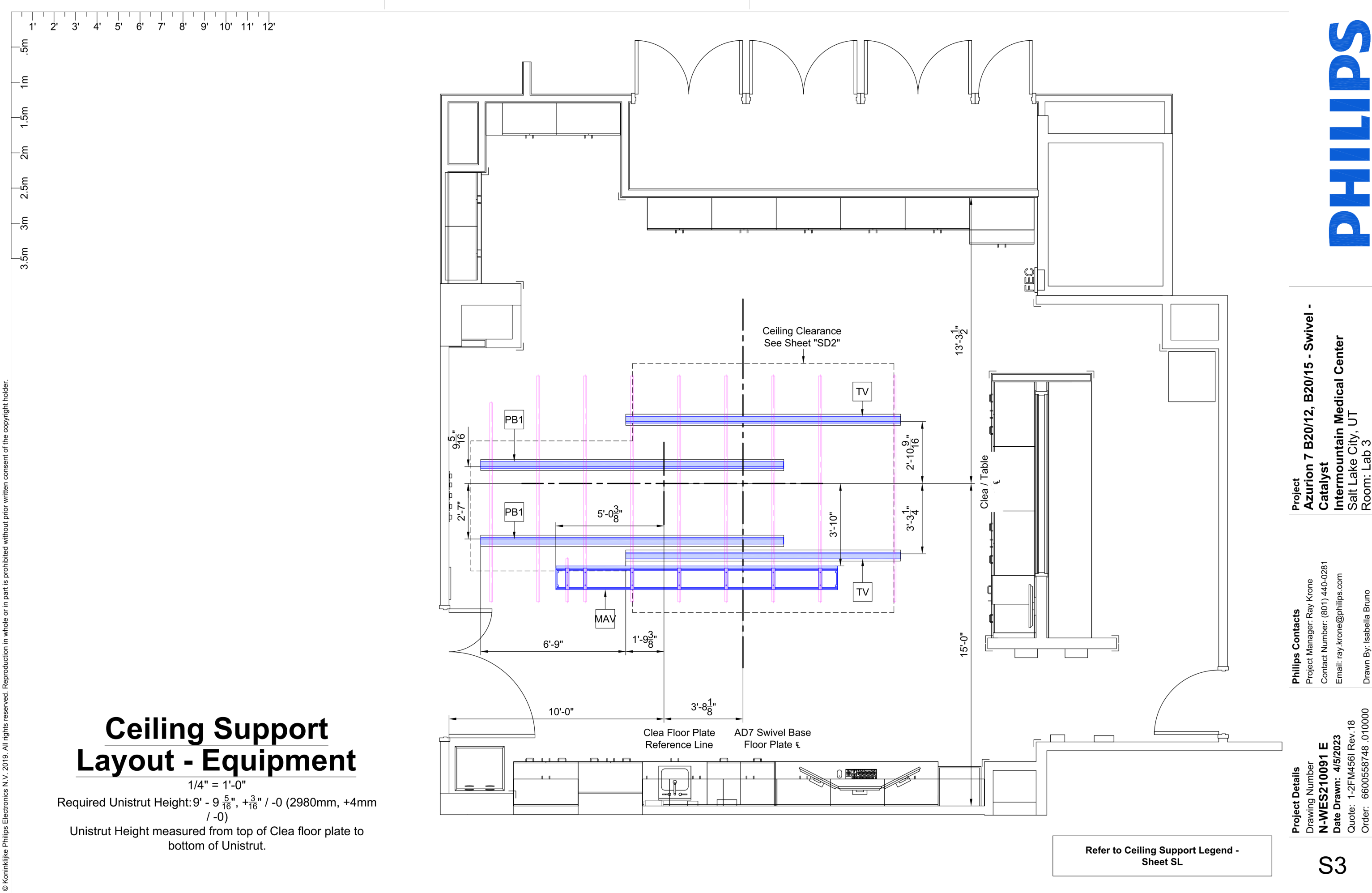
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**PHILIPS**

Project Name: **Azurion 7 B20/12, B20/15 - Swivel - Intermountain Medical Center**  
Project Number: 10000000000000000000  
Drawing Number: **N-WES210091 E**  
Date Drawn: 4/20/23  
Date Issued: 4/20/23  
Drawn By: Isabella Bravo  
Checked By: Isabella Bravo  
Title: **SD1**

05.27.2022

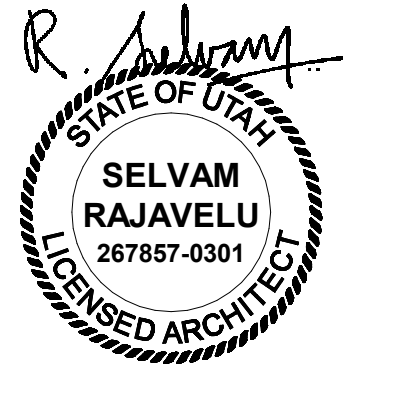


Intermountain Health  
Intermountain Medical Center  
Angio Lab #3 Remodel Project  
5121 South Cottonwood Street  
Murray, UT 84107

NJRA Project # 22247.00  
Construction Documents June 30, 2023

Philips  
Equipment

Q104



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Project: Azurion 7 B20112, B20115 - Swivel - Catalyst Intermountain Medical Center Salt Lake City, UT Room: Lab 3  
PHILIPS Contacts: Project Manager: Ray Kooze Contact Number: (801) 440-2381 Email: ray.kooze@philips.com Date Drawn: 4/29/2023 Drawn By: Isabelle Bruno Checker: 6/05/2023 Rev: 18 Checker: 6/05/2023 Rev: 18  
Project Details: DWG Number: N-WE5210091 E Date Drawn: 4/29/2023 Drawn By: Isabelle Bruno Checker: 6/05/2023 Rev: 18  
EN

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 <math>\leq 300A</math> @ 480V. Maximum momentary current <math>\leq 80A</math> 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 30-10000Hz 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 S-89T between pins and chassis shall be placed on X14 of the SIB input in the MA-cabinet (e.g. Amphenol FCE17B25AD290).

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. Floor ducts and boxes shall have watertight covers. Ducts shall be divided into as many as four separate channels by metal dividers, separately specified herein, to separate wiring and/or cables into groups as follows: Group A: Branch circuit equipment supply mains power wires together with the branch circuit isolated equipment bonding wire; 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. elbs 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 Group A and other groups is mandatory along the full run of Group A wires. 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 pull wire or cord shall be installed in each conduit run. Best practice to name the physical conduit. All conduits which enter duct prior to their termination point must maintain separation from other cables via use of dividers, cross over tunnels, or conduit supplied and installed by contractor from entrance into duct to exit from duct. Do not use flex conduit unless approved by Philips Service.

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.

Electrical Requirement Notes for Systems with Mains 40E 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 280 - Grounding  
Article 517 - Healthcare Facilities  
ANSI / NFPA 99 - Healthcare Facilities

Electrical Notes

1. The contractor will supply & install all breakers, short trip and incoming power to the breakers. The exact location of the breakers and short trips will be determined by the architect or contractor.

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

3. All pre-terminated, cut to length cables, will be supplied and installed by Philips. All cables and conductors to the equipment supply mains branch circuit breaker shall be supplied and installed by the contractor, subject to local arrangements.

4. Provide and install 50mm diameter chase nipples between adjacent wall boxes.

5. 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. Approved raceways may be substituted. 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. Raceway systems as illustrated on this drawing are based upon length of furnished cables. Any changes in routing of raceway systems could exceed maximum allowable length of furnished cables. Conduits or raceways installed above ceilings must be kept as near as practicable to finished ceilings and still permit accessibility.

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

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

8. 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 equipment ground scheme and maintain patient safety.

9. Install an insulated stranded ground wire per feeder/conductor size from the Main Disconnect (CB) to the ERB (minimum size 4 AWG) and from the ERB to the Mains 40E Cabinet (minimum size 4 AWG).

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

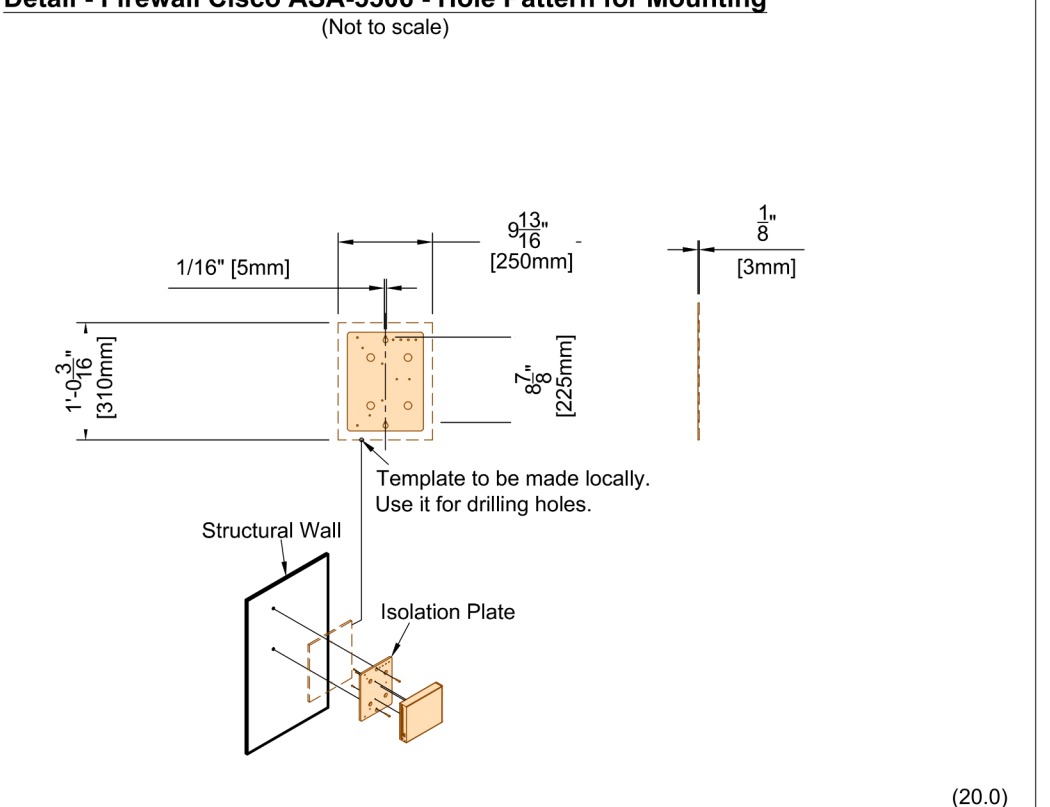
Power Quality Guidelines

1. Power supplied to medical imaging equipment must be separate from power feeds to all 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 quality, non-linear 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.

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PHILIPS Contacts: Project Manager: Ray Kooze Contact Number: (801) 440-2381 Email: ray.kooze@philips.com Date Drawn: 4/29/2023 Drawn By: Isabelle Bruno Checker: 6/05/2023 Rev: 18  
Project Details: DWG Number: N-WE5210091 E Date Drawn: 4/29/2023 Drawn By: Isabelle Bruno Checker: 6/05/2023 Rev: 18  
SD4

Detail - Firewall Cisco ASA-5506 - Hole Pattern for Mounting (Not to scale)



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Project Details: DWG Number: N-WE5210091 E Date Drawn: 4/29/2023 Drawn By: Isabelle Bruno Checker: 6/05/2023 Rev: 18  
EL2

Electrical Legend

Item Number	Description	Detail Sheet
B (CB)	480V, 3 phase, Type D 80 A circuit breaker with long-time delay (e.g. Square D HDL36080 or equivalent). Run power from breaker to "MA", leaving an 8\"/>	ED1
B (ST)	Shunt Trip (emergency off) - Large mushroom-head button on remote control station with contacts to operate feature of "CB" (if required by local code or owner, and mandatory for VA and O.D.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)	ED4
B (CB2)	UPS input breaker, 125A, 3-pole circuit breaker with shunt trip. (Not shown on plan).	ED4
D (UPS)	UPS - 75 kVA.	ED4
D (SB0)	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.	ED4

Electrical Legend

Item Number	Description	Detail Sheet
B (WR1)	10\"/>	ED3
B (WR2)	10\"/>	ED3
B (WR3)	10\"/>	ED3
G (PH)	Stub up point for physiological monitoring cables. Run conduit to customer's physiological console location. Contact manufacturer for power requirements, etc. Not Shown.	
B (ATY)	Auxiliary Box - 6\"/>	ED4
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)	ED4
B (DS)	Door Switch - 120V/5A switch limited to open when door is open. Mount in upper corner on strike side of main entry doors (Cover no. 1665 or equivalent), if required by local code or physicist of record. See Sheet "ED2" diagram for connection details. (Not shown on plan)	ED4
B (FW)	Approximate location shown for Firewall is recommended and may be changed - verify relocation with local Philips Service. Firewall will be installed maximum of 6'-6\"/>	

See E1 - E4 sheets for conduit and raceway requirements.

Electrical Legend

Item Number	Description	Detail Sheet
B (FA)	10\"/>	ED3
B (SB)	12\"/>	ED3

Electrical Legend

Item Number	Description	Detail Sheet
B (PB1)	18\"/>	
B (VB1)	18\"/>	
B (M)	4\"/>	

Electrical Legend

Item Number	Description	Detail Sheet
B	120V/20A dedicated duplex outlet for service in the equipment room. (Not shown on plan)	
B	120V/20A dedicated duplex outlet.	
G	250V/30A dedicated duplex outlet for optional third party equipment (e.g. Spectramics Laser - Not shown on plan)	
B	120VAC with 1Amp power draw SBO (Signaling Box Option)	
B (R45)	RJ45 type Ethernet 10/100/1000 Mbit network connector with access to customer's network. Locate within 10\"/>	
B (R45)	RJ45 type Ethernet 10/100/1000 Mbit network connector. Access to customer's network via their remote access server is needed for Remote Service Network (RSN) connectivity.	
B (R45)	RJ45 type Ethernet 10/100/1000 Mbit network connector with access to customer's network. Required for Collaboration Live to access from the network of the healthcare facility to the internet for outbound connections.	

See E1 - E4 sheets for conduit and raceway requirements.

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Project Details: DWG Number: N-WE5210091 E Date Drawn: 4/29/2023 Drawn By: Isabelle Bruno Checker: 6/05/2023 Rev: 18  
EL1

Electrical Legend

Item Number	Description	Detail Sheet
B (SE)	Local building steel (i.e. structural steel, ground rod). (Not shown on plan)	
B (ERB)	Equal-Potential Reference Bar mounted in a 12\"/>	ED2
B (ME)	Customer/Contractor provided 18\"/>	ED3
B (CY)	Grommet opening on "WR3". Approximate location shown is recommended and may be changed - verify relocation with local Philips Service.	
B (VB)	4\"/>	
B (WR1)	10\"/>	ED3
B (WR2)	10\"/>	ED3
B (WR3)	10\"/>	ED3
G (PH)	Stub up point for physiological monitoring cables. Run conduit to customer's physiological console location. Contact manufacturer for power requirements, etc. Not Shown.	
B (ATY)	Auxiliary Box - 6\"/>	ED4
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)	ED4
B (DS)	Door Switch - 120V/5A switch limited to open when door is open. Mount in upper corner on strike side of main entry doors (Cover no. 1665 or equivalent), if required by local code or physicist of record. See Sheet "ED2" diagram for connection details. (Not shown on plan)	ED4
B (FW)	Approximate location shown for Firewall is recommended and may be changed - verify relocation with local Philips Service. Firewall will be installed maximum of 6'-6\"/>	

Electrical Legend

Item Number	Description	Detail Sheet
B (CB)	480V, 3 phase, Type D 80 A circuit breaker with long-time delay (e.g. Square D HDL36080 or equivalent). Run power from breaker to "MA", leaving an 8\"/>	ED1
B (ST)	Shunt Trip (emergency off) - Large mushroom-head button on remote control station with contacts to operate feature of "CB" (if required by local code or owner, and mandatory for VA and O.D.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)	ED4
B (CB2)	UPS input breaker, 125A, 3-pole circuit breaker with shunt trip. (Not shown on plan).	ED4
D (UPS)	UPS - 75 kVA.	ED4
D (SB0)	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.	ED4

See E1 - E4 sheets for conduit and raceway requirements.