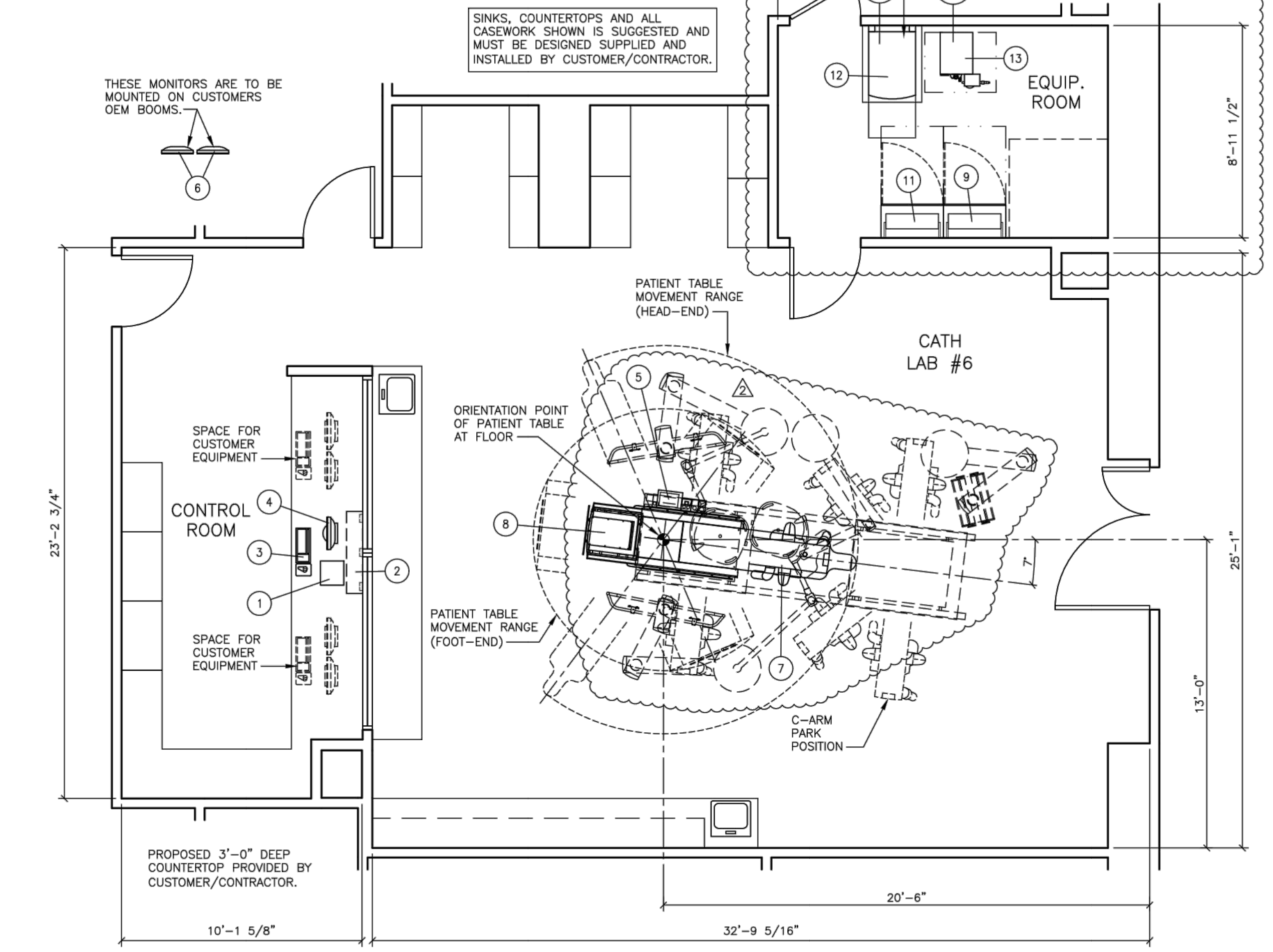


THIS SET OF FINAL DRAWINGS IS REFLECTIVE OF THE LATEST SALES CONFIGURATION. ANY CHANGES TO THIS SALES CONFIGURATION MAY REQUIRE A REVISION TO THIS PROJECT PLAN. IF REQUESTED, SIEMENS WILL PRODUCE A REVISED SET OF FINAL DRAWINGS TO REFLECT THE CHANGES, HOWEVER SIEMENS IS NOT RESPONSIBLE FOR ANY CONSTRUCTION COSTS ASSOCIATED WITH THE CHANGES THAT OCCUR FROM THIS PLAN MODIFICATION.



EQUIPMENT LEGEND						
NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES) W D H	REMARKS
1	ACE (ARCHIVE CONTROL EXTENSION)	⊙	13	N/A	12 1/4 11 3/4 4	ON COUNTER
2	CONTROL ROOM DISTRIBUTOR	⊙	64	342	41 1/2 8 1/4 16 1/8	WALL MOUNTED
3	KEYBOARD	⊙	2.2	342	17 1/2 6 1/8 2 1/8	ON COUNTER
4	19" LIVE DISPLAY	⊙	15	256	16 1/2 8 1/4 13 1/2	ON COUNTER
5	TABLE CONTROL MODULES	⊙	13.8	---	16 1/2 8 3/4 3 1/2	ON TABLE
6	BOOM 1 KIT 19" (2) DISPLAYS LIVE+REF	⊙	25	512	33 8 1/4 13 1/2	OEM BOOM MOUNTED
7	ARTIS Q.ZEN CEILING C-ARM STAND	⊙	1,994	682	---	C-ARM CEILING SUSPENDED
8	PATIENT TABLE (BASIC, STANDARD TABLE)	⊙	997	683	---	FLOOR MOUNTED
9	POLYDOROS A100 GENERATOR CABINET	⊙	723	4,094	31 1/2 17 1/8 87	FLOOR MOUNTED
10	CABLE CABINET	⊙	244	---	17 1/8 87	FLOOR MOUNTED
11	SYSTEM CONTROL CABINET	⊙	855	5,460	31 1/2 17 1/8 87	FLOOR MOUNTED
12	AXIS IMAGE SYSTEM	⊙	331	4,347	23 3/4 37 1/4 28	ON CASTERS
13	TUBE COOLING UNIT	⊙	80	15,355	16 1/2 28 1/4 19 1/4	SHELF MOUNTED

ARCHITECTURAL NOTES

- 1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCOMPASS WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E. PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER.
- 2) SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED SAFETY/SERVICE CLEARANCES SHOWN.
- 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- 4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
- 5) ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- 6) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- 7) SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SUCH SERVICES. APPROVED PARTIES TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION AND ACCURACY OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- 8) THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E. O.S. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- 9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PUNCH-TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

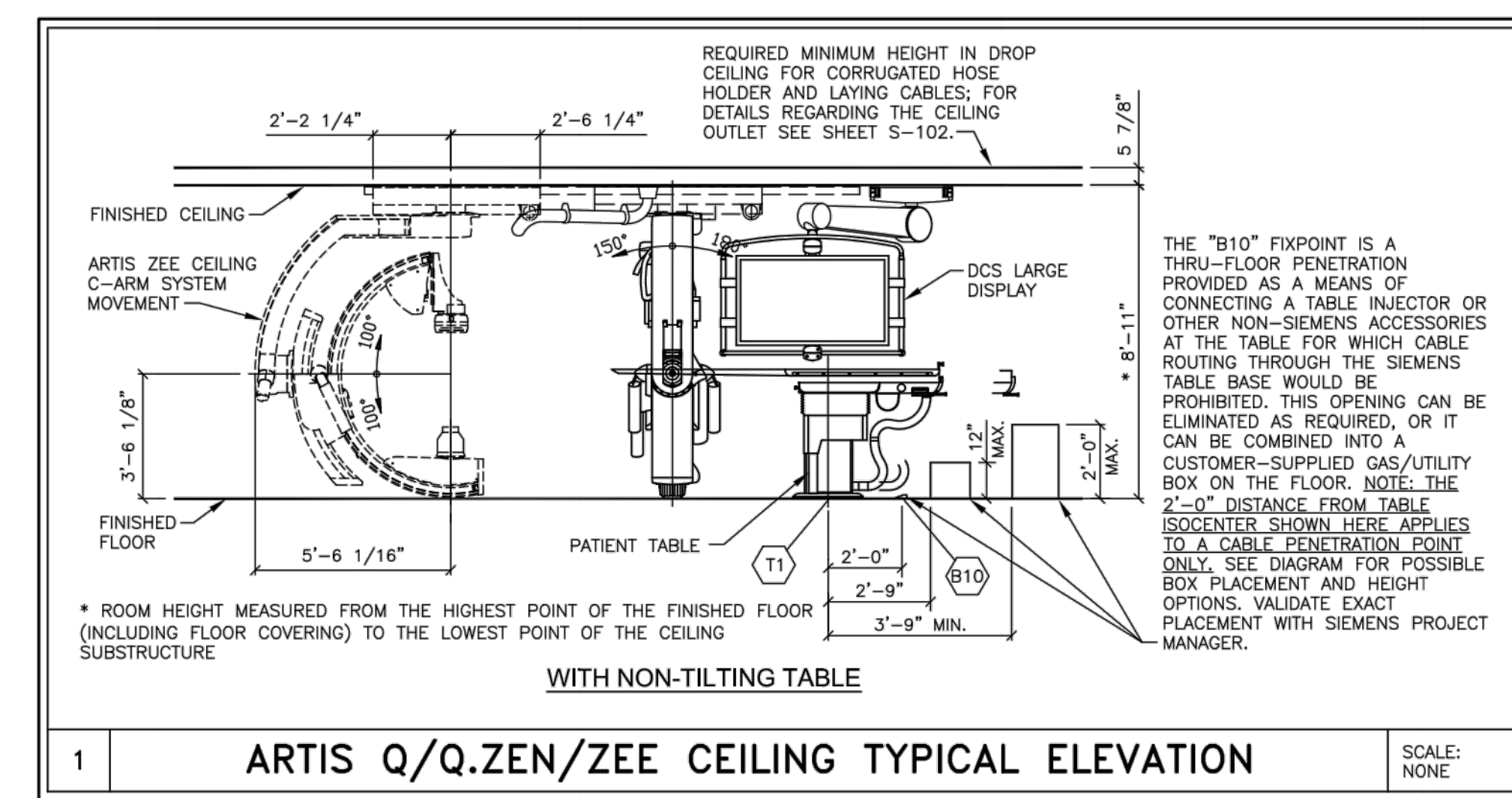
NON-SIEMENS (OEM) DISPLAY BOOMS

IMPORTANT SAFETY CRITERIA: FAILURE TO MEET THE FOLLOWING REQUIREMENTS MAY RESULT IN RISK OF INJURY TO PATIENTS, PERSONNEL OR DAMAGE TO THE EQUIPMENT.

- 1) IT MUST BE POSSIBLE TO MANUALLY MOVE THE BOOM VERTICALLY WITH A FORCE LESS THAN 85 N (19 LBS) WHEN POSITIONING THE DISPLAY BOOM OVER THE PATIENT.
- 2) TO AVOID THE RISK OF CRUSHING PERSONS OR DAMAGING EQUIPMENT IN THE EVENT THAT THE ANGIOGRAPHY SYSTEM COMES INTO CONTACT WITH THE DISPLAY BOOM, IT MUST BE POSSIBLE TO PUSH THE BOOM AWAY IN A HORIZONTAL DIRECTION WITH A FORCE LESS THAN 50 N (11 LBS).
- 3) MOTORIZED, HEIGHT-ADJUSTABLE DISPLAY BOOMS WHICH CANNOT MANUALLY BE PUSHED AWAY MAY NOT BE USED.

DELIVERY AND INSTALLATION:
IT IS RECOMMENDED THAT INSTALLATION OF 3RD PARTY DISPLAY BOOMS BE COORDINATED WITH THE INSTALLATION OF THE SIEMENS SYSTEM. IN ORDER TO ENSURE THE SIMULTANEOUS INSTALLATION OF THE SYSTEM AND THE DISPLAY BOOM, THE CUSTOMER SHOULD TAKE STEPS EARLY IN THE PLANNING PROCESS TO ENSURE THAT THE BOOM MANUFACTURER'S LEAD TIME CAN BE COORDINATED WITH THE DELIVERY OF THE SIEMENS EQUIPMENT. THE THIRD-PARTY MANUFACTURER IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF THE DISPLAY BOOM(S). THE THIRD-PARTY MANUFACTURER IS RESPONSIBLE FOR INSTALLING THE SIEMENS COMPONENTS IN THE DISPLAY BOOM IN ACCORDANCE WITH SIEMENS SPECIFICATIONS. SIEMENS ASSUMES NO RESPONSIBILITY FOR ANY DAMAGE TO SIEMENS COMPONENTS WHICH ARE NOT INSTALLED IN ACCORDANCE WITH SIEMENS SPECIFICATIONS. SIEMENS TECHNICIANS MUST BE GIVEN INSTRUCTIONS AND/OR TRAINING AS APPROPRIATE BY THE 3RD PARTY MANUFACTURER FOR MAINTENANCE/SERVICE OF THE SIEMENS COMPONENTS (I.E. DISPLAY, CABLES), OR A TECHNICIAN FROM THE THIRD-PARTY MANUFACTURER MUST BE PRESENT WHENEVER ANY SERVICE WORK IS PERFORMED.

ARCHITECTURAL EQUIPMENT PLAN



STATE AGENCY REVIEW

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

MAGNETIC FIELD PRECAUTIONS

THE PRESENCE OF MAGNETIC FIELDS IN THE VICINITY OF EQUIPMENT MAY HAVE AN ADVERSE EFFECT. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FOLLOWING VALUES ARE NOT EXCEEDED.

MAXIMUM ALLOWABLE MAGNETIC FIELD	DEVICES
1.0mT (10 GAUSS)	COMPUTERS, MAGNETIC DISK DRIVES, OSCILLOSCOPES, PROCESSORS
0.5mT (5 GAUSS)	X-RAY TUBES, 6"/W MONITORS, MAGNETIC DATA CARRIERS, DATA STORAGE DRIVES
0.2mT (2 GAUSS)	SIEMENS CT SCANNERS
0.05mT (0.5 GAUSS)	CRT MONITORS, SIEMENS LINEAR ACCELERATORS
0.05mT (0.5 GAUSS)	X-RAY IMAGE INTENSIFIERS, GAMMA CAMERAS, PET/CYCLOTRON, OTHER LINEAR ACCELERATORS

MAGNETIC FIELDS SHOULD BE MEASURED PRIOR TO DELIVERY

PROJECT MILESTONES TO BE COMPLETED BEFORE EQUIPMENT DELIVERY	REFERENCE SHEET
<input type="checkbox"/> Storage area available for storing items during installation	A-101
<input type="checkbox"/> Lead shielding (walls, doors, windows) complete	A-101
<input type="checkbox"/> Climate control functioning 24 hours a day, 7 days a week	A-101
<input type="checkbox"/> Delivery path verified for largest piece, including rails	A-101
<input type="checkbox"/> Casework complete in control room	A-101
<input type="checkbox"/> All walls primed and painted. Flooring installed	A-101
<input type="checkbox"/> Room lighting complete and functional	A-101
<input type="checkbox"/> Network drops active and IP addresses obtained for Siemens Remote Services (SRS)	A-102
<input type="checkbox"/> Nothing hanging below ceiling in area shaded on drawing	A-102
<input type="checkbox"/> Floor thickness and anchoring spec's verified. If req'd, all solutions per engineer of record in place	S-101
<input type="checkbox"/> All conduits, troughs, in-floor pull boxes and/or core drills avoid conflict with floor plate anchors	S-102
<input type="checkbox"/> Unistrut installed to correct height, location, and levelness (check minimum ceiling height)	E-101
<input type="checkbox"/> Cable runs checked to ensure maximum lengths not exceeded	E-101
<input type="checkbox"/> X-Ray warning light and wiring installed	E-102
<input type="checkbox"/> Contractor supplied electrical wiring / pigtail installed	E-102
<input type="checkbox"/> Cable inlets located per plans	E-102
<input type="checkbox"/> EPO's installed and functional	E-102
<input type="checkbox"/> UPS started and functional	E-102
<input type="checkbox"/> Ancillary equipment (OEM items, booms, etc) installed	E-102
<input type="checkbox"/> Breakers installed and facility power available	E-501

ENVIRONMENTAL CONDITIONS FOR TRANSPORT/STORAGE

TEMPERATURE RANGE: -4° F TO 158° F
RELATIVE HUMIDITY: 20% TO 95% WITHOUT CONDENSATION
AIR PRESSURE: 700 hPa TO 1060 hPa

TRANSPORTING REQUIREMENTS

LARGEST CRATE WITH PACKING: 103.6"(L) x 46.5"(D) x 81.5"(H), 2,590 LBS.
LARGEST INDIVIDUAL PIECE WITH CARRIAGE (MIN. DOOR OPENING): 98 1/4"(L) x 39 1/2"(W) x 75"(H), 2,100 LBS.
CEILING RAILS ARE 14 FT.(L) x 3"(W) x 3"(H)
MIN. CORRIDOR WIDTH: 82.7"

RESOURCE LIST (SMS USE ONLY)

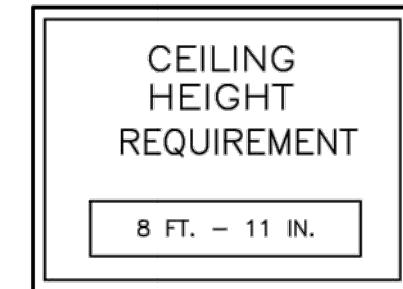
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ARTIS Q / Q.ZEN CEILING	AXAQ-060,891,01,01,02	04,13

ATTENTION:

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SYM	DATE	DESCRIPTION
02/21/19		ADDITION OF OEM BOOMS PER CUSTOMER REQUEST
02/01/19		REVISED EQUIPMENT ROOM PER CUSTOMER REQUEST
11/02/18		8-1010101 VESION DATED 09/17/18 APPROVED BY CUSTOMER FOR FINALS

PROJECT MANAGER: CHRISTOPHER THOMAS
TEL: (801) 209-6582
FAX: (801) 209-6582
EMAIL: christopher.thomas@siemens-healthineers.com

SIEMENS

INTERMOUNTAIN MEDICAL CENTER
5121 COTTONWOOD STREET, MURRAY, UT, 84107
CATH LAB #6 - ARTIS Q.ZEN CEILING

PROJECT #: **1803659**
SHEET: **A-101**

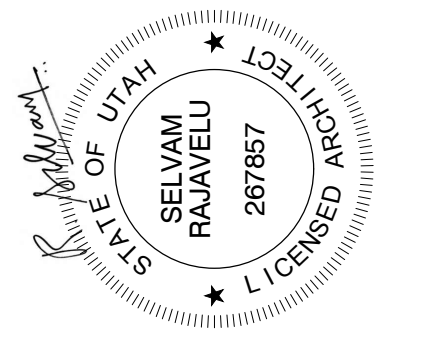
ALL RIGHTS ARE RESERVED.
SCALE: AS NOTED
REF: 40219677

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

Intermountain Healthcare
IMC- Cath Lab 6 Remodel Project
5121 South Cottonwood Street
Murray, UT 84107

NJRA Project # 18226.00
Construction Documents March 27, 2019

Siemens
Equipment-
Architectural



Intermountain Healthcare
IMC- Cath Lab 6 Remodel Project

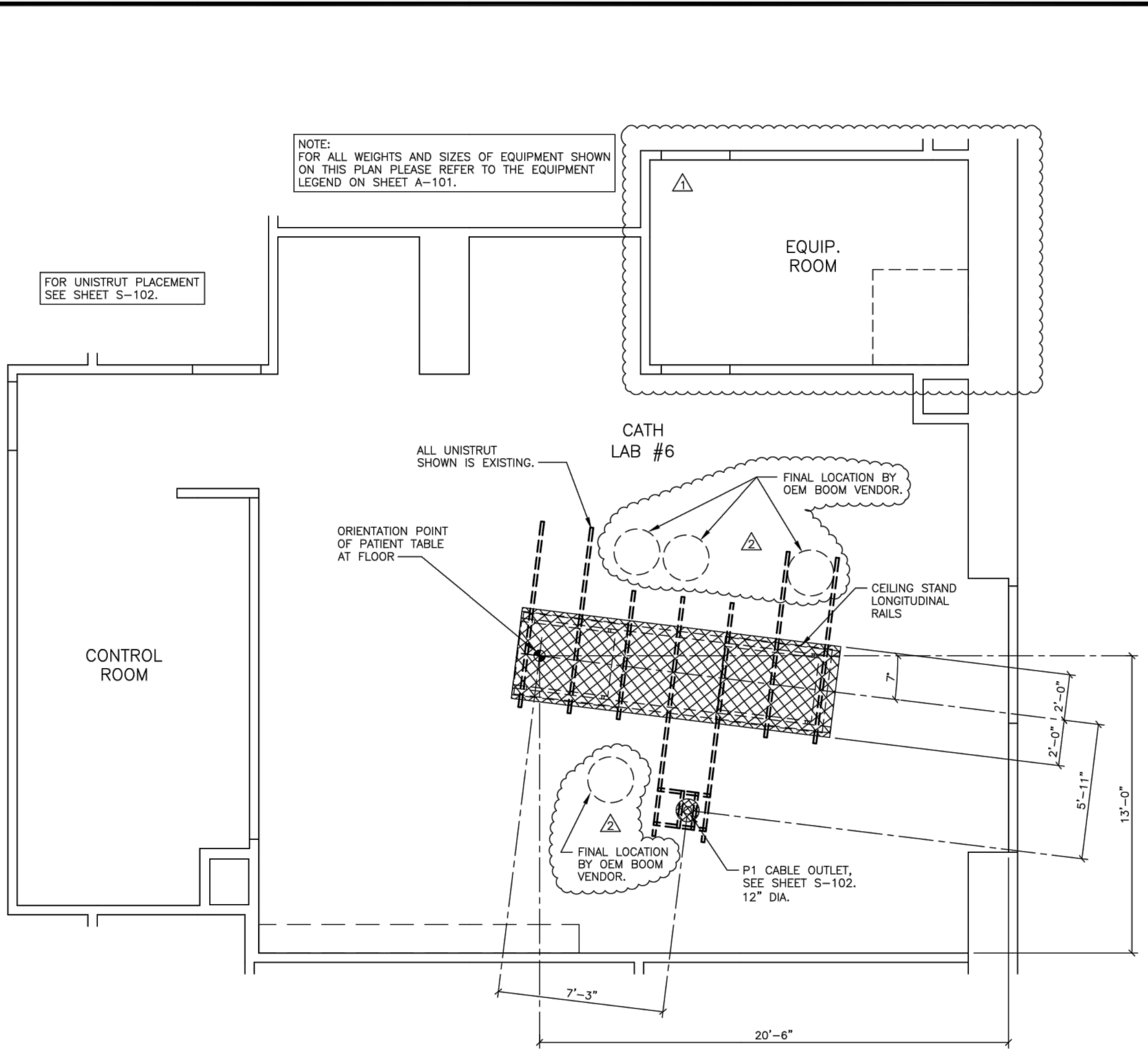
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NJRA Project # 18226.00
Construction Documents March 27, 2019

Siemens
Equipment-
Architectural

EQ 102

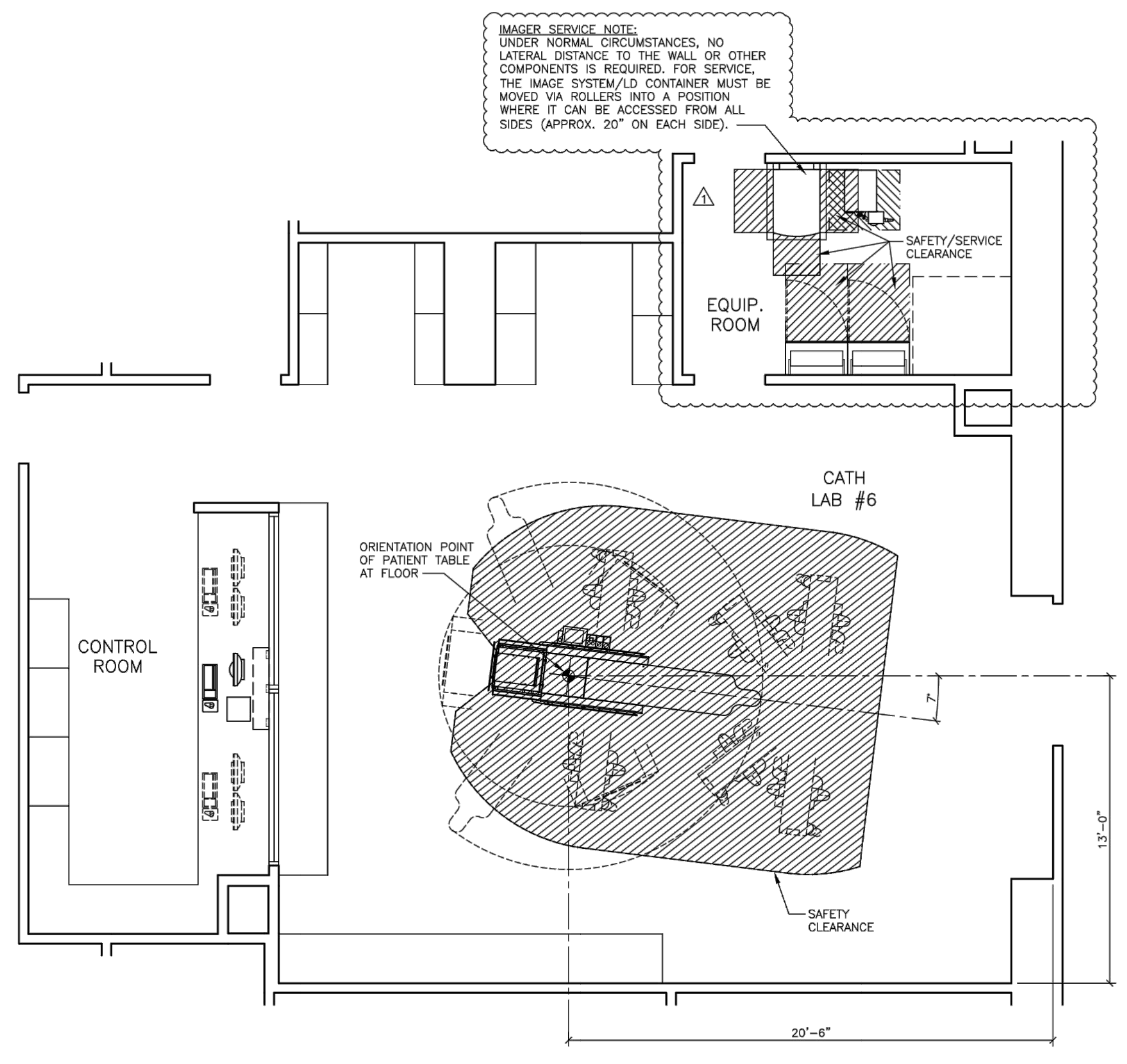
REFERENCE DOCUMENT - NOT FOR CONSTRUCTION



ATTENTION! LIGHTING AND HVAC DUCTS HAVING THE POTENTIAL TO HEAT OR COOL SIEMENS COMPONENTS MUST NOT BE LOCATED WITHIN SIEMENS CEILING RAIL SYSTEMS AS INDICATED BY THE SHADED AREAS ON THIS PLAN. SPRINKLER HEADS MUST NOT BE LOCATED WITHIN THE SHADED AREAS AS WELL. IF REQUIRED, LAMINAR AIRFLOW DIFFUSERS MAY BE LOCATED WITHIN SIEMENS CEILING RAIL SYSTEMS PROVIDED THEY DO NOT EXTEND BELOW THE FINISHED CEILING OR HEAT/COOL SIEMENS EQUIPMENT. IF PLACED WITHIN SIEMENS RAIL SYSTEMS, THE CUSTOMER MUST ACCEPT RESPONSIBILITY FOR THE FACT THAT, DEPENDING ON THE POSITION OF THE CARRIAGE WITHIN THE CEILING RAILS, THERE IS POTENTIAL FOR CERTAIN DIFFUSERS IN THIS AREA TO BE BLOCKED. THE CUSTOMER MUST ALSO ACCEPT RESPONSIBILITY FOR POTENTIAL DIFFICULTIES IN SERVING THE CUSTOMER'S MECHANICAL EQUIPMENT IN THE CEILING, IF PLACED WITHIN THESE SHADED AREAS. PLEASE COORDINATE THE PLACEMENT OF THESE ITEMS WITH THE SIEMENS PROJECT MANAGER. SIEMENS SHALL BEAR NO RESPONSIBILITY FOR ANY EQUIPMENT DAMAGES RESULTING FROM THE INSTALLATION OF CUSTOMER-SUPPLIED INFRASTRUCTURE NOT ADHERING TO THE ABOVE STATED REQUIREMENTS.

REFLECTED CEILING PLAN

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



SAFETY/SERVICE CLEARANCE PLAN

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

CEILING NOTES

- 1) ALL CEILING MOUNTED LIGHT FIXTURES, MECHANICAL REGISTERS AND SPRINKLER HEADS SHALL BE FLUSH WITH FINISHED CEILING. SHALL BE OUTSIDE OF ALL HATCHED AREAS AND SHALL BE SPECIFIED BY THE ARCHITECT OF RECORD AND SUBSEQUENT CONSULTING ENGINEERS.
- 2) THE ACTUAL CEILING DESIGN AND COORDINATION OF LIGHTING AND MECHANICAL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT OF RECORD AND HIS SUBSEQUENT CONSULTING ENGINEERS.
- 3) THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR FABRICATING, SUPPLYING AND INSTALLING ALL LIGHT, MECHANICAL AND STRUCTURAL SUPPORTING SYSTEMS. SIEMENS MEDICAL SYSTEMS, INC. IS ONLY RESPONSIBLE FOR THE SUPPLYING, INSTALLING AND CALIBRATION OF SMS EQUIPMENT AS SPECIFIED ON THE EQUIPMENT SCHEDULE AS SHOWN ON SHEET A-101.
- 4) ALL ELECTRICAL AND STRUCTURAL SYSTEMS SHOWN ON THE REFLECTED CEILING PLAN HAVE BEEN COORDINATED WITH THE EQUIPMENT LOCATIONS AS SHOWN ON THE 1/4" SCALE ARCHITECTURAL EQUIPMENT PLAN (SHEET A-101). ANY CHANGES TO THE SMS EQUIPMENT CONFIGURATION AS SHOWN, DUE TO PLACEMENT OF LIGHTING, STRUCTURAL, ELECTRICAL AND MECHANICAL SYSTEMS, MUST BE APPROVED IN WRITING BY THE SMS PROJECT MANAGER PRIOR TO THE COMPLETION OF CONSTRUCTION DOCUMENTS.

CEILING HEIGHT REQUIREMENT
8 FT. - 11 IN.

ATTENTION:

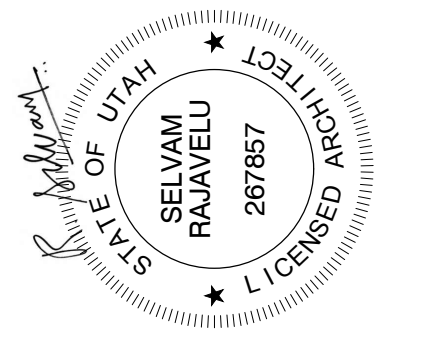
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PROJECT MANAGER: CHRISTOPHER THOMAS TEL: (801) 209-6582 FAX: EMAIL: christopher.thomas@siemens-healthineers.com		SIEMENS	
02/21/19 ADDITION OF GEM BOOMS PER CUSTOMER REQUEST		INTERMOUNTAIN MEDICAL CENTER	
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11/02/18 R-10101A VERSION DATED 09/24/18 APPROVED BY CUSTOMER FOR FINALS		PROJECT #: 1803659	
SYM DATE DESCRIPTION		SHEET: A-102	
—ISSUE BLOCK—		DRAWN BY: M. GONZALEZ	
SCALE AS NOTED		DATE: 11/02/18	
REF: 40219677			

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REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

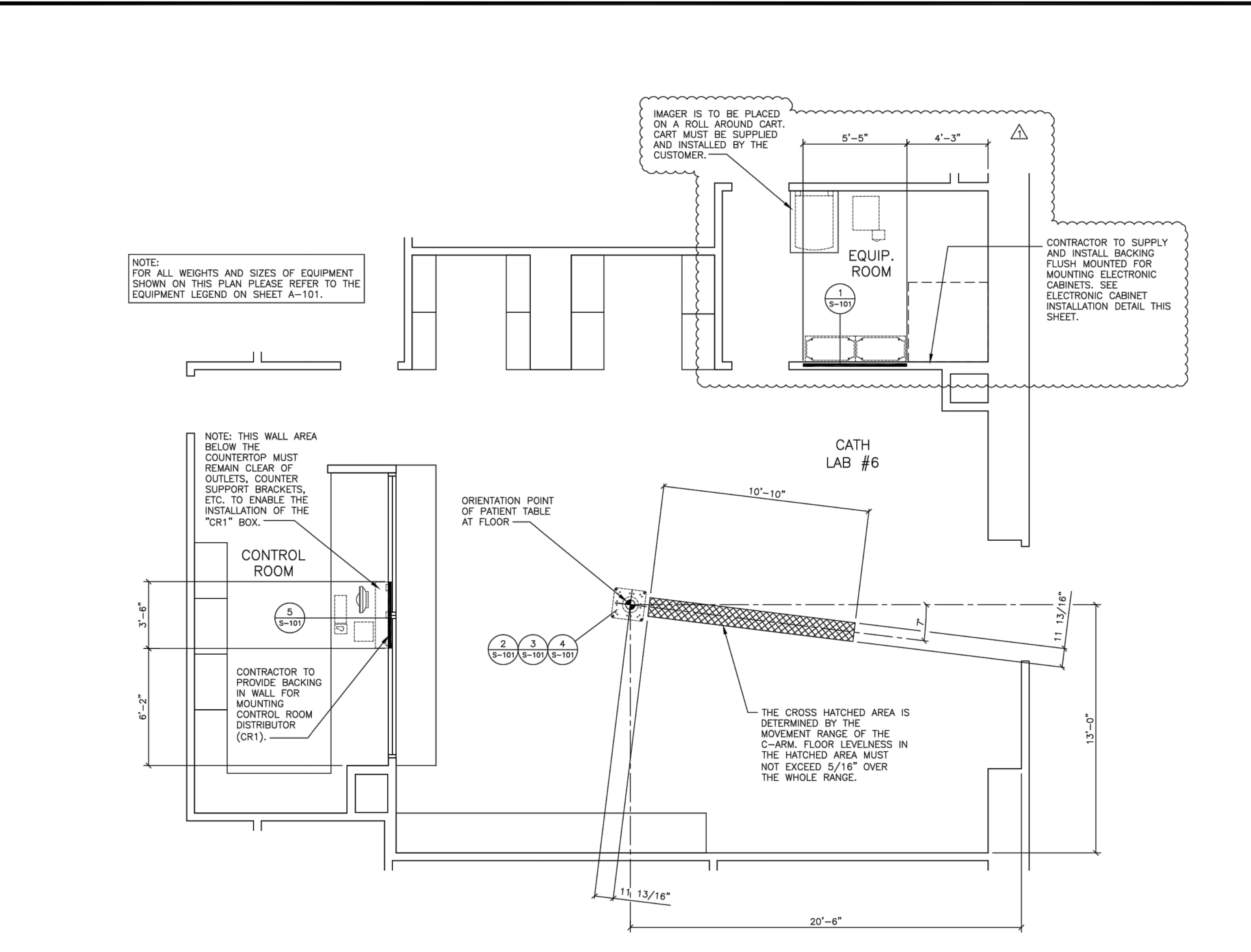
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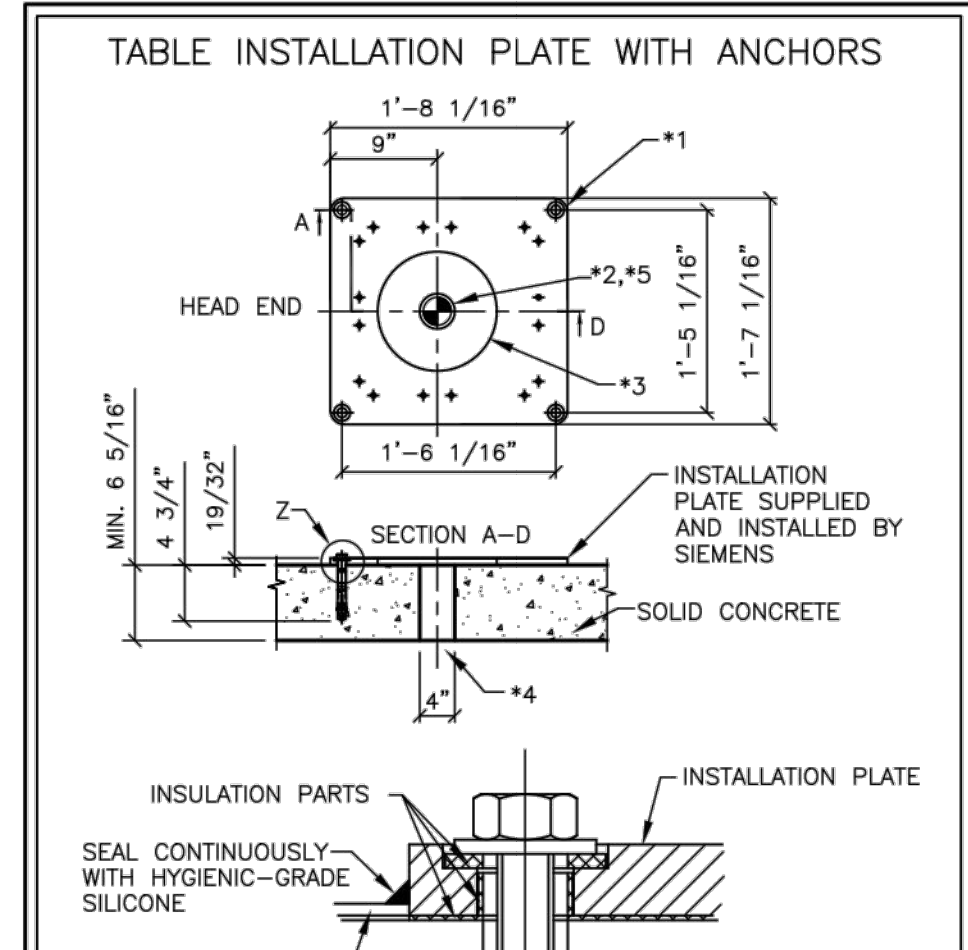
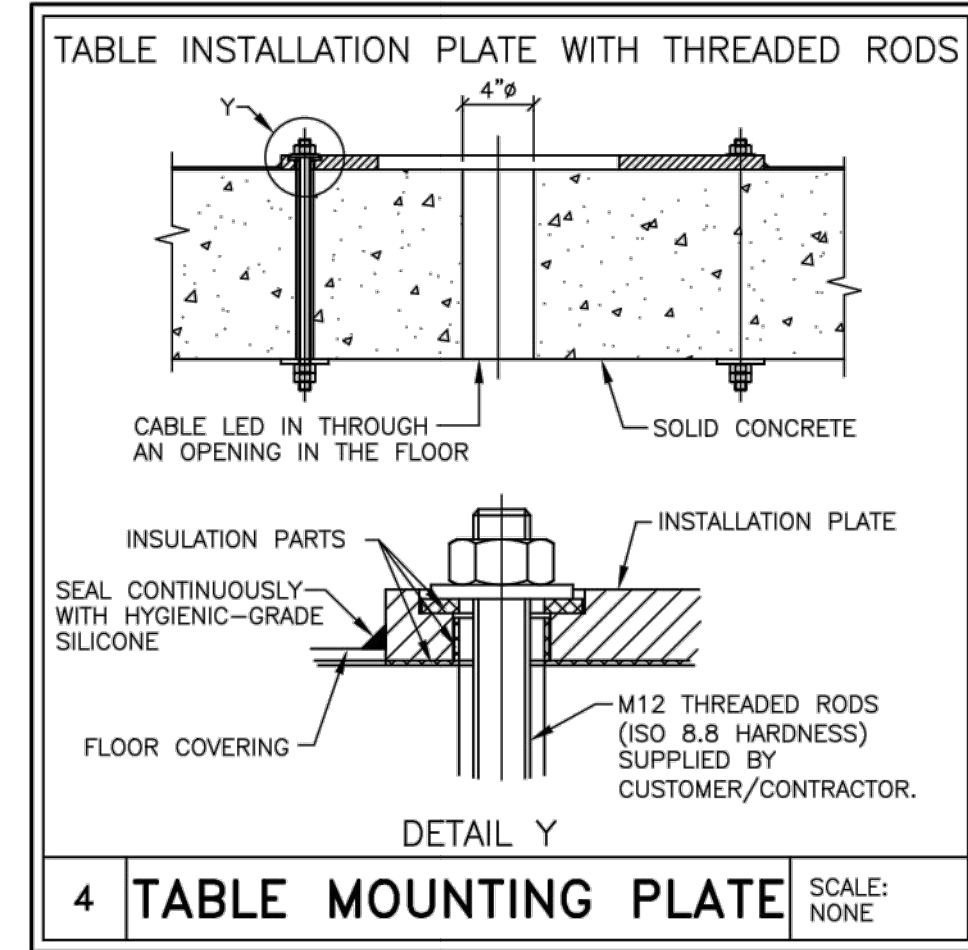
NJRA Project # 18226.00
Construction Documents March 27, 2019

Siemens
Equipment-
Structural

EQ 103

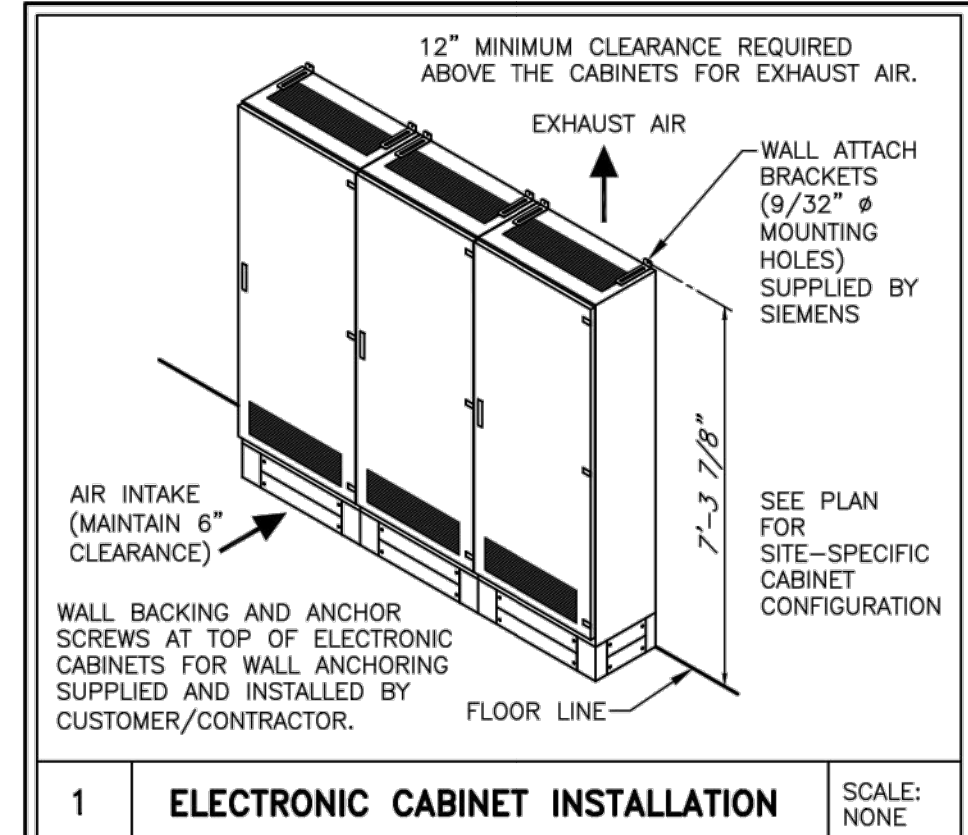
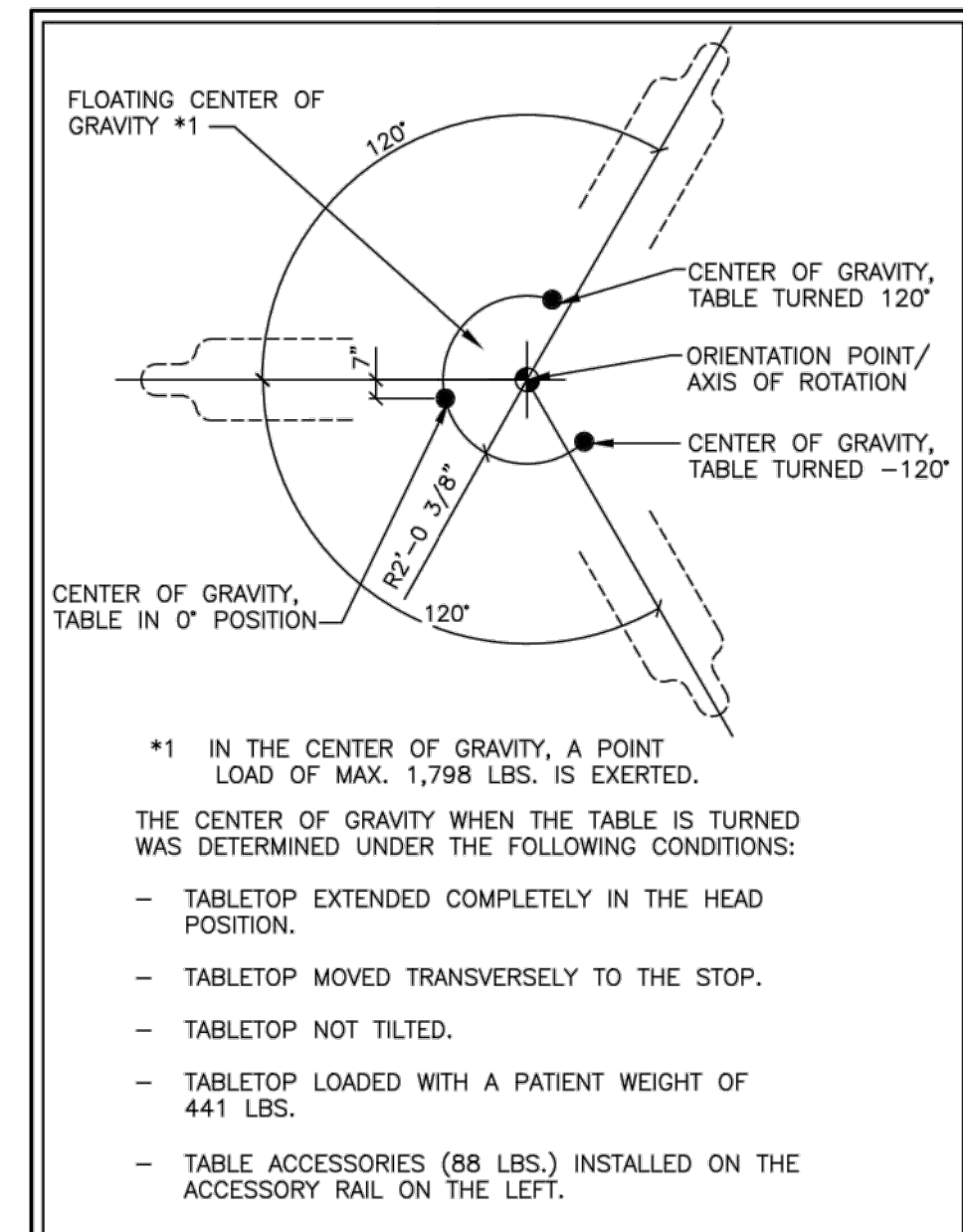


STRUCTURAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



STRUCTURAL NOTES

- 1) THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.
- 2) THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.
- 3) ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER, WITH A HORIZONTAL STRUCTURAL SUPPORT MEMBER TO BE LOCATED AND SET WITH A TRANSIT.
- 4) ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.
- 5) MOUNTING PLATES, FRAMES, AND HARDWARE SUPPLIED BY SIEMENS AS DETAILED IN THIS DRAWING SET ARE INSTALLED BY SIEMENS UNLESS OTHERWISE REQUIRED. ANY DEVIATION FROM THE PROVIDED MATERIALS OR MOUNTING METHODS MUST BE DESIGNED AND DOCUMENTED BY THE STRUCTURAL ENGINEER OF RECORD. ALTERNATE MOUNTING MATERIALS (I.E. ANCHORS, THREADED RODS, BACKING PLATES, ETC.) MUST BE SUPPLIED BY THE CUSTOMER/CONTRACTOR. SIEMENS MAY REQUIRE ASSISTANCE FROM THE CUSTOMER/CONTRACTOR WITH INSTALLATION WHEN UTILIZING ALTERNATE MOUNTING MATERIALS.
- 6) ALL CEILING FIXTURES (I.E. AIR SUPPLY GRILLES, AIR RETURN GRILLES, EXHAUST GRILLES, SPRINKLER HEADS, INCANDESCENT AND FLUORESCENT LIGHT FIXTURES, INTERCOM SPEAKERS, MEDICAL GAS COLUMNS, ETC.) SHALL BE INSTALLED FLUSH MOUNTED WITH THE FINISHED CEILING TO PROVIDE FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.
- 7) THE BOTTOM SIDE OF THE UNSTRUT CEILING GRID AND ANY CEILING MOUNTED SUPPORT PLATES ARE TO BE INSTALLED FLUSH WITH THE FINISHED CEILING. THE CUSTOMER/CONTRACTOR SHALL ALSO PROVIDE COVERSTRIPS FOR THE UNSTRUT.
- 8) THE STRUCTURAL PLANNING AS SHOWN ON THE 1/4" STRUCTURAL PLAN HAS BEEN COORDINATED WITH THE EQUIPMENT LOCATION AS SHOWN ON THE 1/4" EQUIPMENT LAYOUT PLAN. FOR THIS REASON, ANY DEVIATIONS FROM THE STRUCTURAL PLANNING AS SHOWN MUST BE APPROVED BY SMS PLANNING DEPARTMENT.
- 9) THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF FLOOR, WALL, AND CEILING STRUCTURES IN ACCORDANCE WITH THE STRUCTURAL INFORMATION SHOWN, AND LOCAL GOVERNING BUILDING CODES.



GENERAL PATIENT TABLE NOTES

THE PRE-INSTALLATION ITEMS ARE PART OF THE PRE-INSTALLATION SHIPMENT.

THE PRE-INSTALLATION KIT CONTAINS THE MOUNTING PLATE WITH INSTALLATION HARDWARE.

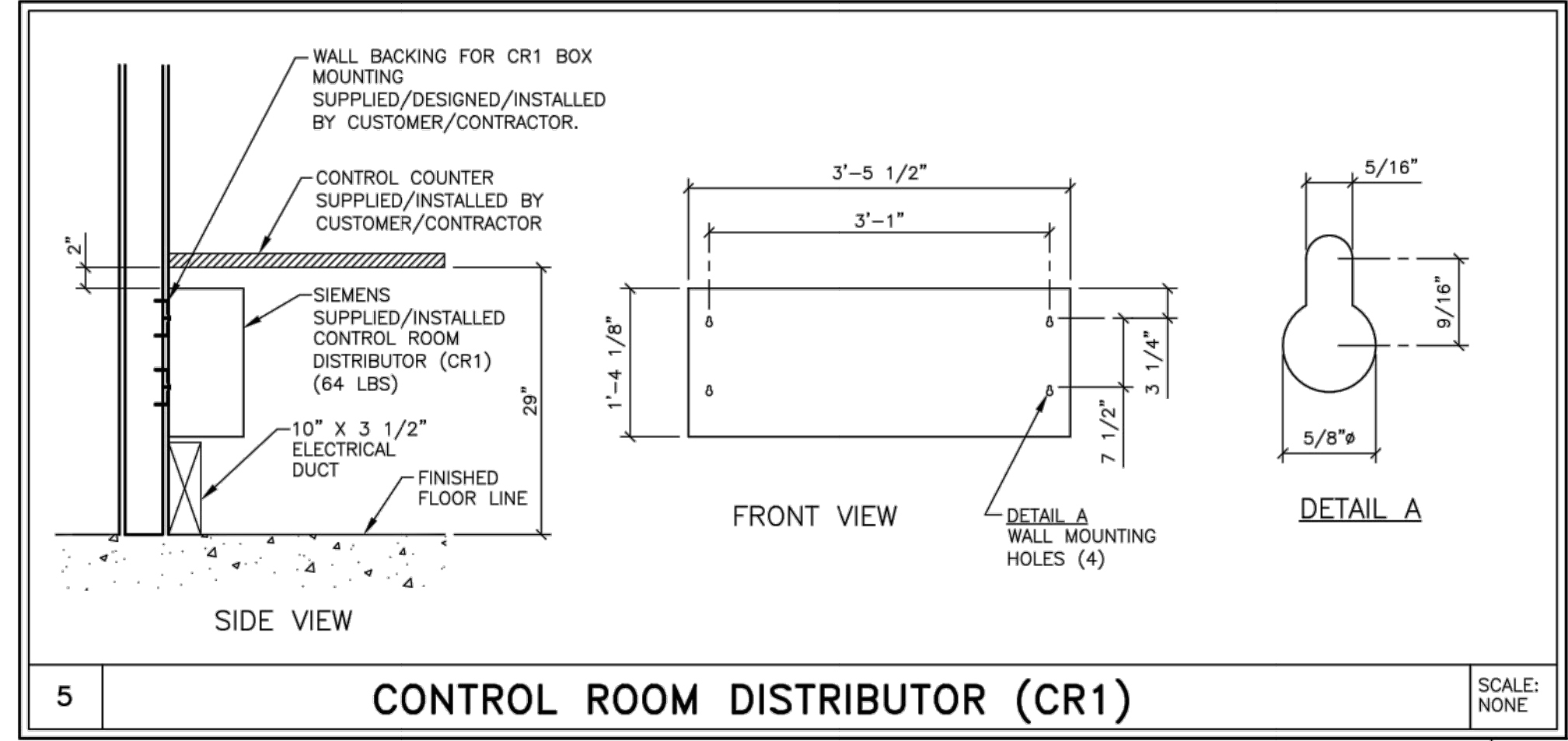
THE MOUNTING PLATE FOR THE PATIENT TABLE MUST BE INSTALLED ON A SOLID BASE THAT HAS SUFFICIENT LOAD CAPACITY. CUT AWAY THE FLOOR COVERING, IF NECESSARY, ANY MATERIAL IN THE LOCATION OF THE MOUNTING PLATES THAT DOES NOT HAVE THE REQUIRED LOAD CAPACITY MUST BE REPLACED WITH FILLED CONCRETE.

HILTI HEAVY DUTY EXPANSION ANCHORS ARE INCLUDED IN THE SHIPMENT FOR INSTALLING THE MOUNTING PLATE. IF NECESSARY, THE MOUNTING PLATES CAN ALSO BE INSTALLED USING M12 THREADED STUDS. MINIMUM HARDNESS RATED 8.8 PER THE ISO NORM, WHICH ARE INSERTED THROUGH THE CEILING OF THE ROOM BELOW (THREADED STUDS, ETC. MUST BE OBTAINED LOCALLY).

PATIENT TABLE TENSION LOADS

MOUNTING PLATE ON SOLID CONCRETE.

FOOT-END LOAD PER INSTALLATION PLATE MOUNTING POINT: MAXIMUM TENSILE FORCE 1,012 LBS.



CEILING HEIGHT REQUIREMENT

8 FT. - 11 IN.

ATTENTION:

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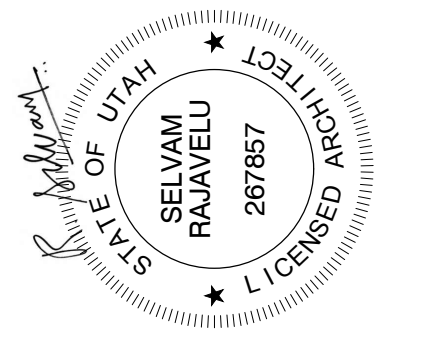
—IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

—ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

—THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

PROJECT MANAGER: CHRISTOPHER THOMAS TEL: (801) 209-8582 FAX: (801) 209-8582 EMAIL: christopher.thomas@siemens-healthineers.com		SIEMENS INTERMOUNTAIN MEDICAL CENTER 5121 COTTONWOOD STREET, MURRAY, UT, 84107 CATH LAB #6 - ARTIS Q.ZEN CEILING	PROJECT #: 1803659	SHEET: S-101
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW. ALL RIGHTS ARE RESERVED.			SHEET 3 OF 8 DRAWN BY: M. GONZALEZ	
02/21/19 ADDITION OF DEM BOOMS PER CUSTOMER REQUEST	02/01/19 REVISED EQUIPMENT ROOM PER CUSTOMER REQUEST	11/02/18 8-10101A VERSION DATED 09/24/18 APPROVED BY CUSTOMER FOR FINALS	DATE: 11/02/18	REF: 40219677

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Intermountain Healthcare
IMC- Cath Lab 6 Remodel Project

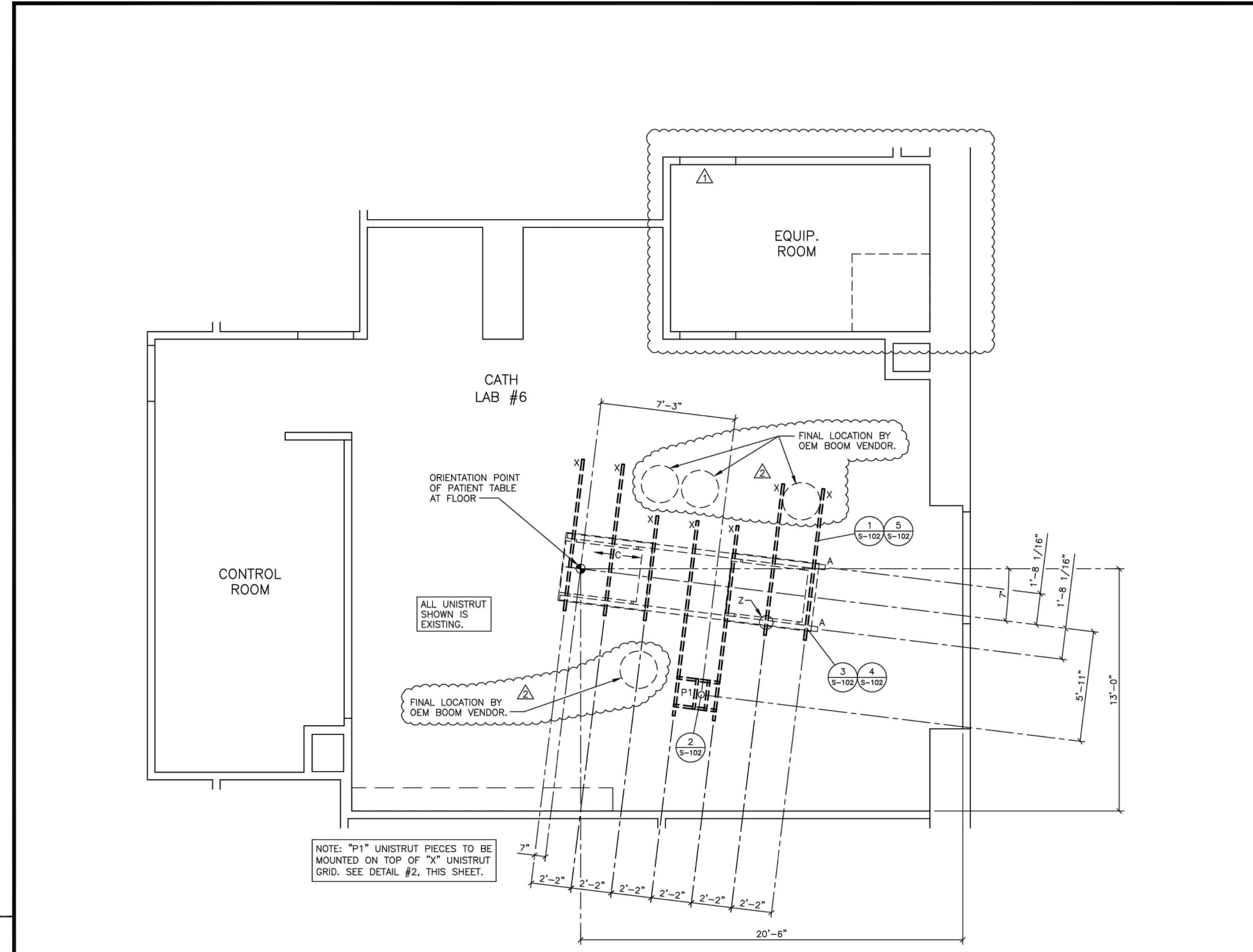
5121 South Cottonwood Street
Murray, UT 84107

NJRA Project # 18226.00
Construction Documents March 27, 2019

Siemens
Equipment-
Structural

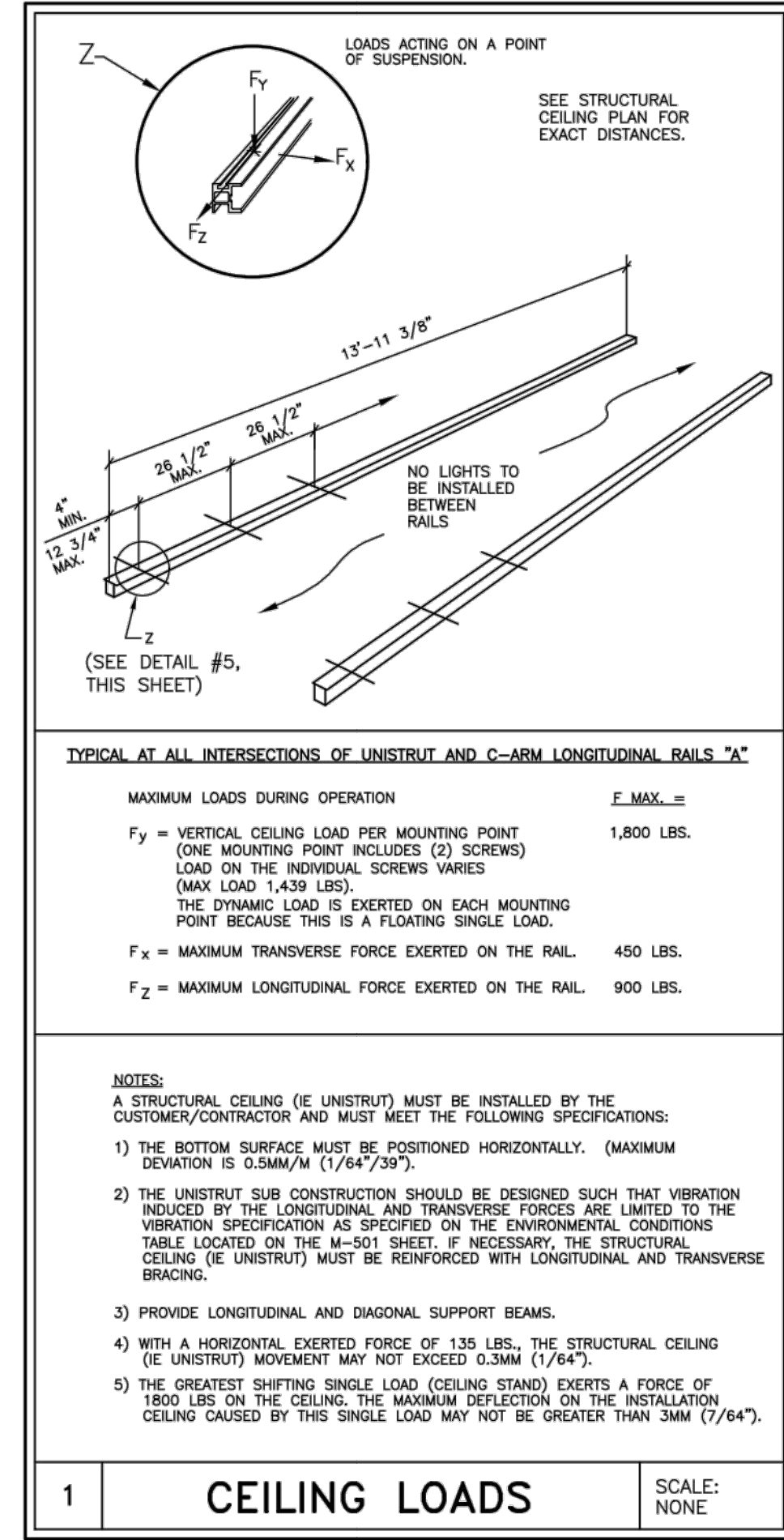
EQ 104

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

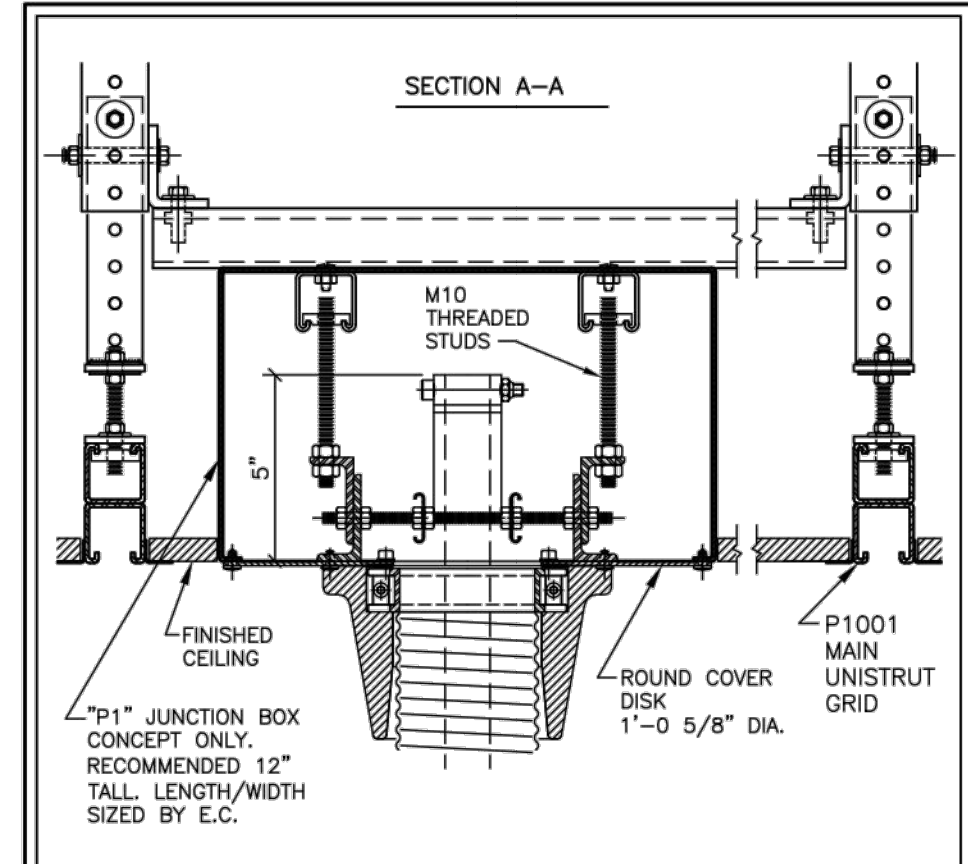


STRUCTURAL CEILING PLAN

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



1 CEILING LOADS SCALE: NONE



2 CEILING OUTLET DETAIL SCALE: NTS

CEILING PLAN LEGEND
SUPPLIED/INSTALLED BY SIEMENS

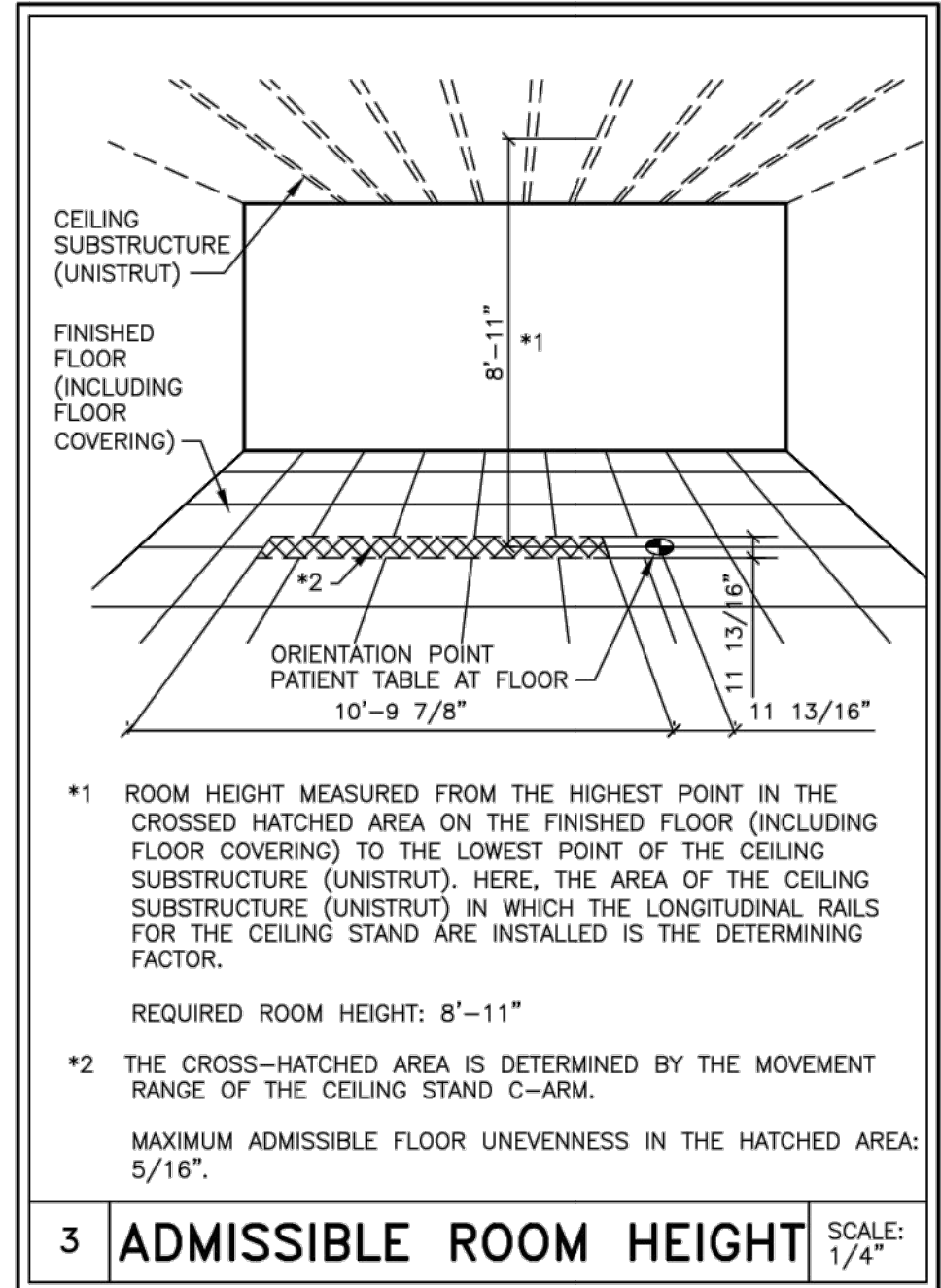
SYM	DESCRIPTION	DET
A	LONGITUDINAL RAILS ATTACHED TO "P-1001" UNISTRUT	1,5
C	CEILING STAND MOVES ALONG LONGITUDINAL RAILS	1
D	DCS RAILS ATTACHED TO "P-1001" UNISTRUT	1,5
E	DCS CARRIAGE MOVES ALONG LONGITUDINAL RAILS	-
F	RAD. SHIELD RAILS ATTACHED TO "P-1001" UNISTRUT	-
G	RADIATION SHIELD SUPPORT CARRIAGE MOVES ALONG RAILS	-
Z	LONGITUDINAL RAIL SUPPORT MOUNTING POINT BOLTED TO UNISTRUT FRAME	5

SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR

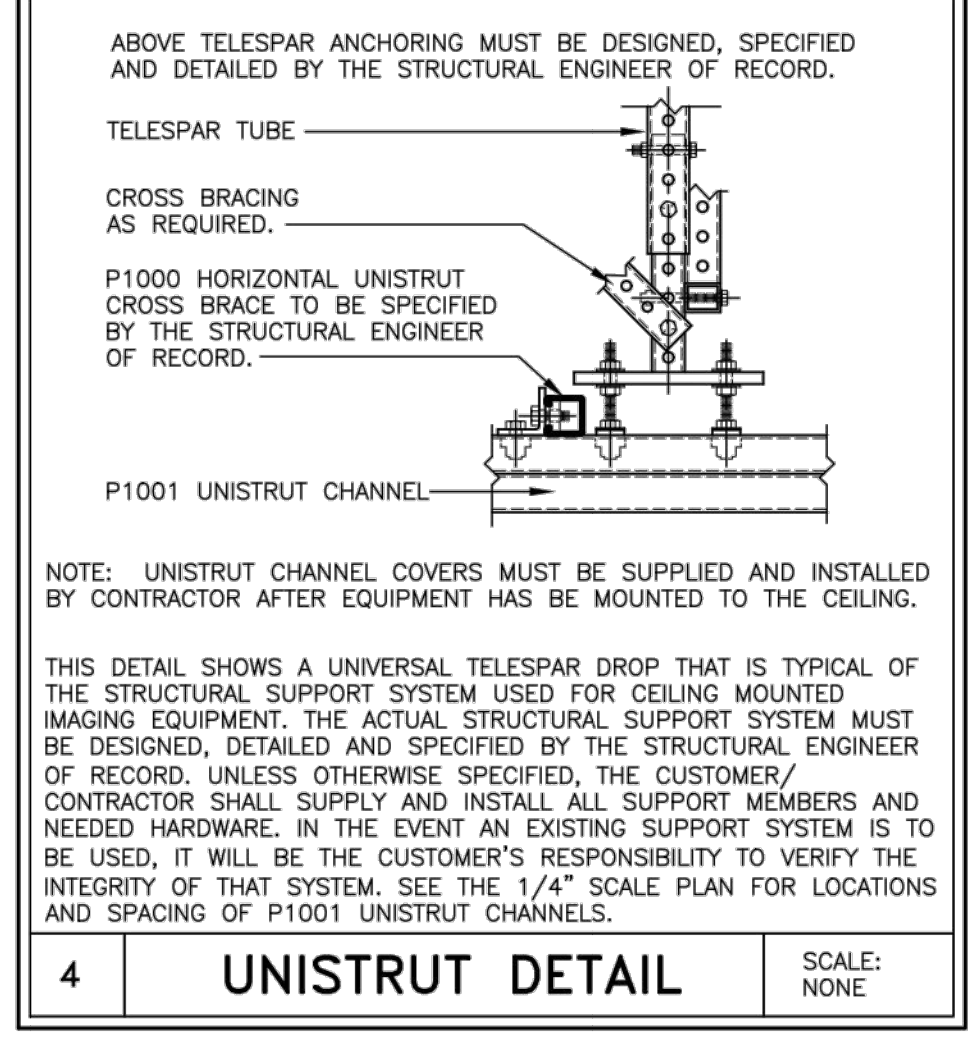
SYM	DESCRIPTION	DET
X	"P-1001" UNISTRUT MOUNTED FLUSH WITH FINISHED CEILING. MUST BE LEVEL AS SPECIFIED BY SIEMENS ON STRUCTURAL NOTES AND DETAILS.	4
P1	CEILING OUTLET SUPPORTS	2

NOTE:
ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.

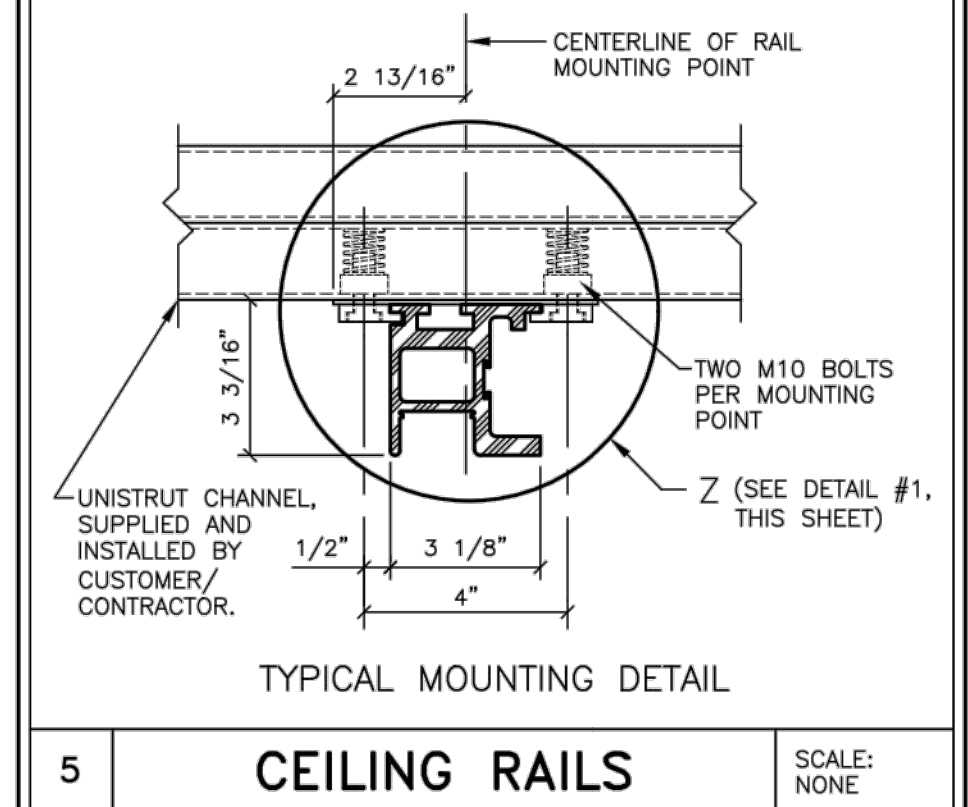
SYM	DATE	DESCRIPTION
	02/21/19	ADDITION OF OEM BOOMS PER CUSTOMER REQUEST
	02/01/19	REVISED EQUIPMENT ROOM PER CUSTOMER REQUEST
	11/02/18	9-101001 REVISION DATED 09/24/18 APPROVED BY CUSTOMER FOR FINALS



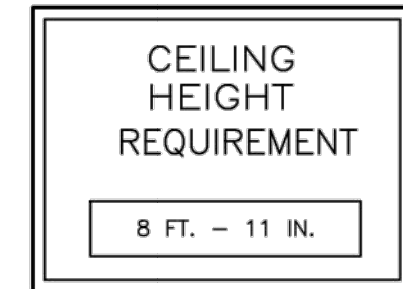
3 ADMISSIBLE ROOM HEIGHT SCALE: 1/4"



4 UNISTRUT DETAIL SCALE: NONE



5 CEILING RAILS SCALE: NONE



ATTENTION:

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—THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

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PROJECT MANAGER: CHRISTOPHER THOMAS
TEL: (801) 209-6582 EXT:
FAX:
EMAIL: christopher.thomas@siemens-healthineers.com

SIEMENS

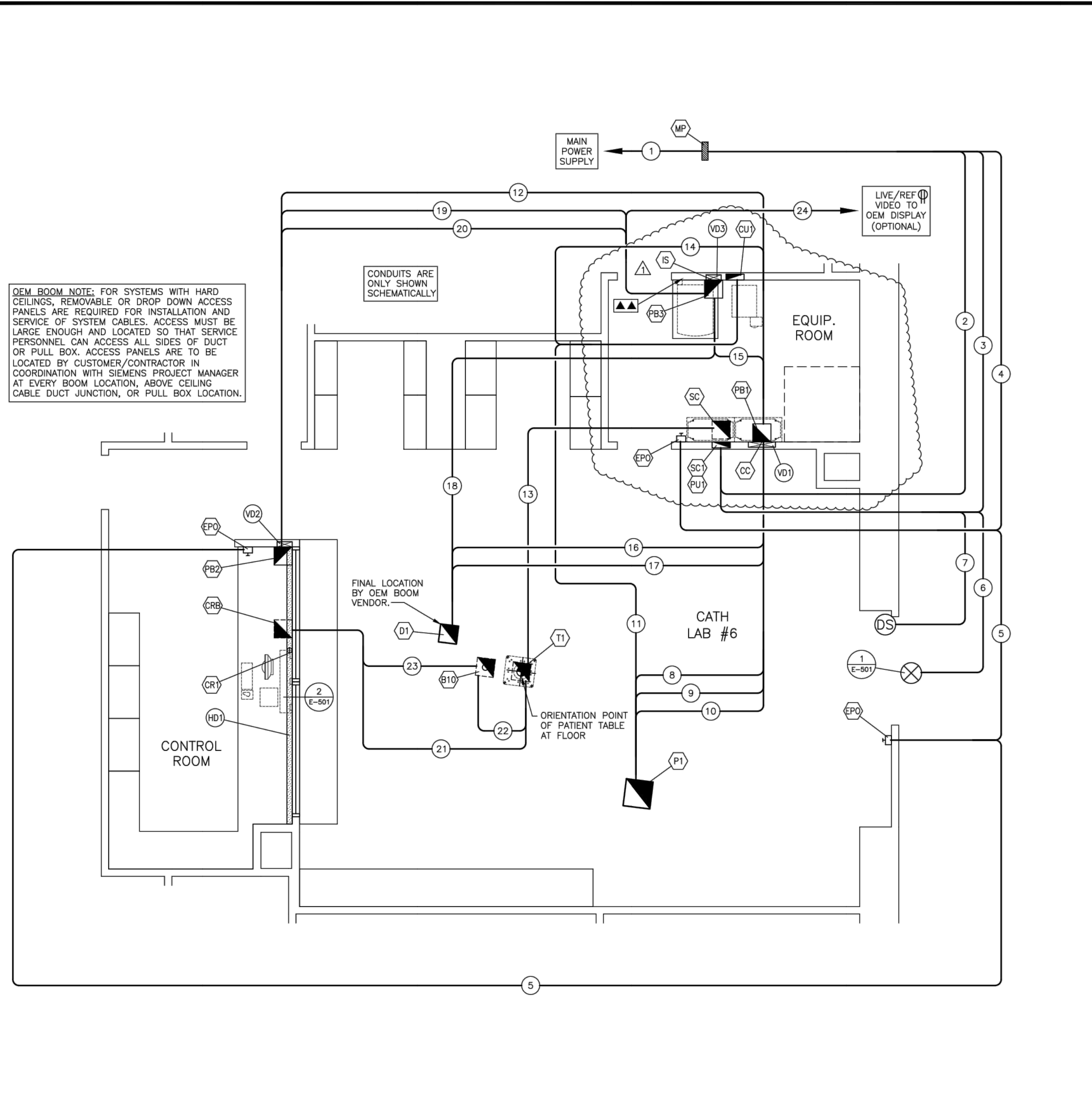
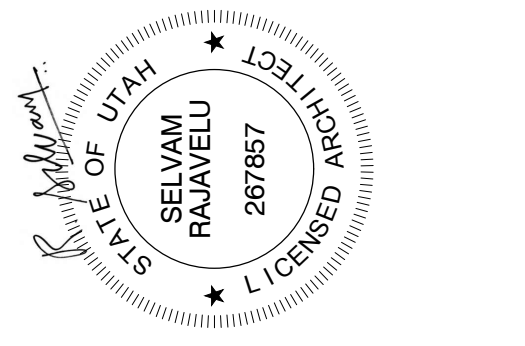
INTERMOUNTAIN MEDICAL CENTER
5121 COTTONWOOD STREET, MURRAY, UT, 84107
CATH LAB #6 - ARTIS Q.ZEN CEILING

PROJECT #: **1803659** SHEET: **S-102**

SHEET 4 OF 8 DRAWN BY: M. GONZALEZ
DATE: 11/02/18

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DEM. ROOM NOTE: FOR SYSTEMS WITH HARD CEILING, REMOVABLE OR DROP DOWN ACCESS PANELS ARE REQUIRED FOR INSTALLATION AND SERVICE OF SYSTEM CABLES. ACCESS MUST BE LARGE ENOUGH AND LOCATED SO THAT SERVICE PERSONNEL CAN ACCESS ALL SIDES OF DUCT OR PULL BOX. ACCESS PANELS ARE TO BE LOCATED BY CUSTOMER/CONTRACTOR IN COORDINATION WITH SIEMENS PROJECT MANAGER AT EVERY BOOM LOCATION, ABOVE CEILING CABLE DUCT JUNCTION, OR PULL BOX LOCATION.

CONDUITS ARE ONLY SHOWN SCHEMATICALLY

FINAL LOCATION BY OEM BOOM VENDOR.

ORIENTATION POINT OF PATIENT TABLE AT FLOOR

ELECTRICAL RACEWAY PLAN

SYMBOLS	
ALL MAY NOT APPLY	
	CIRCUIT BREAKER BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCHDUCT
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
	WARNING LIGHT (X-RAY ON)
	DOOR SAFETY SWITCH
	(EPO) EMERGENCY POWER OFF BUTTON
	TRENCHDUCT
	CEILING DUCT
	UNDER FLOOR DUCT
	SURFACE DUCT
	VERTICAL DUCT
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER)
	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET
	110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET

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

CEILING HEIGHT REQUIREMENT
8 FT. - 11 IN.

ELECTRICAL LEGEND			
SYM	SIZE	DESCRIPTION	REMARKS
AS REQUIRED	AS REQUIRED	(EXISTING) PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 4" CONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR. PROVIDE STAINLESS STEEL WATERPROOF PLATE ON TOP OF CORED OPENING IN FLOOR.	TABLE ACCESSORIES
AS REQUIRED	18" x 8"	(EXISTING) BUSHED OPENING IN VERTICAL DUCT "VD1" COVER AT FLOOR LINE.	CABLE CABINET
AS REQUIRED	3"	(EXISTING) BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	CONTROL ROOM DISTRIBUTOR
AS REQUIRED	AS REQUIRED	(EXISTING) PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. FOR A SINGLE CONDUIT CONNECTION TO THIS BOX, PROVIDE A 3" CONDUIT THRU FLOOR. FOR MULTIPLE CONDUIT CONNECTIONS, PROVIDE (2) 4" CONDUITS THRU FLOOR. E.G. TO DESIGN TRANSITION TO SURFACE FLOOR DUCT AS REQUIRED.	CONTROL ROOM UNDER-FLOOR BOX
AS REQUIRED	AS REQUIRED	(EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED WALL AT 48" AFF. PROVIDE BOX WITH REMOVABLE FRONT COVER AND (1) 4" BUSHING IN CENTER OF REMOVABLE COVER FOR CABLE EXIT. SEE PLAN FOR LOCATION.	COOLING UNIT
AS REQUIRED	AS REQUIRED	(NEW) PULL BOX MOUNTED ABOVE FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 3" BUSHED OPENING. NOTE: IF LOCAL CODES REQUIRE COMPLETE CABLE CONTAINMENT IN RACEWAY, THIS BOX MUST BE SIZED SUCH THAT A 6" x 6" x 3" SIEMENS POWER DISTRIBUTION BOX CAN BE INSTALLED INSIDE THIS PULL BOX.	ROOM DIM 2x8WD-19D (live+ref)
---	---	(VERIFY) EMERGENCY OFF BUTTONS FOR CIRCUIT BREAKERS. EPO'S MUST PREVENT RESETTING OF CIRCUIT BREAKERS WHEN IN OFF POSITION. EPO'S MUST BE RECESSED OR SHIELDED. FINAL LOCATION DETERMINED BY CUSTOMER.	EMERGENCY POWER OFF
---	---	(EXISTING) BUSHED OPENING IN VERTICAL DUCT "VD1" COVER AT HEIGHT NEEDED FOR IMAGER.	IMAGER SYSTEM
---	---	(VERIFY) MAIN PANEL WITH MAIN BREAKER. LOCATION DETERMINED BY CUSTOMER/CONTRACTOR. SEE "POWER SCHEDULE"	BREAKER PANEL
AS REQUIRED	AS REQUIRED	(EXISTING) ABOVE FINISHED CEILING PULL BOXES FOR CONDUIT TERMINATION INTO VERTICAL DUCTS. SEE PLAN FOR LOCATION.	PULL BOXES
AS REQUIRED	12" TALL	(EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 6" BUSHED OPENING.	C-ARM
AS REQUIRED	AS REQUIRED	(EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4" BUSHED OPENING AT BOTTOM OF COVER.	GENERATOR
AS REQUIRED	AS REQUIRED	(EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4" BUSHED OPENING AT BOTTOM OF COVER.	SYSTEM CABINET
AS REQUIRED	AS REQUIRED	(EXISTING) PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 6" CONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	SYSTEM CABINET
AS REQUIRED	AS REQUIRED	(EXISTING) PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 4" CONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	TABLE
---	3 1/2" x 10"	(EXISTING) HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH REMOVABLE FRONT COVER. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS. CONNECT TO VERTICAL DUCT "VD2" AS SHOWN.	HORIZONTAL WALL DUCT
---	3 1/2" x 18"	(EXISTING) VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX "PB2" (SIZED BY E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS.	VERTICAL DUCT
---	3 1/2" x 10"	(EXISTING) VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX "PB3" (SIZED BY E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS.	VERTICAL DUCT
---	3 1/2" x 10"	(EXISTING) VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX "PB3" (SIZED BY E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS.	VERTICAL DUCT
---	EC TO SIZE	(VERIFY) CONDUIT FROM PANEL TO "MP"	SEE "POWER SCHEDULE"
---	EC TO SIZE	(VERIFY) CONDUIT FROM "MP" TO "PB1"	SEE "POWER SCHEDULE"
---	EC TO SIZE	(VERIFY) CONDUIT FROM "MP" TO "SC1"	SEE "POWER SCHEDULE"
---	EC TO SIZE	(VERIFY) CONDUIT FROM "MP" TO "EPO"	SEE "POWER SCHEDULE"
---	EC TO SIZE	(VERIFY) CONDUIT FROM "EPO" TO "EPO"	SEE "POWER SCHEDULE"
---	EC TO SIZE	(VERIFY) CONDUIT FROM "SC1" TO "ML"	SEE "POWER SCHEDULE"
---	EC TO SIZE	(VERIFY) CONDUIT FROM "SC1" TO "DS"	SEE "POWER SCHEDULE"
---	2"	(EXISTING) CONDUIT FROM "P1" TO "PB1" (PU1)	MAX. CONDUIT LENGTH 26'
---	(2) 3"	(EXISTING) CONDUITS FROM "P1" TO "PB1" (PU1)	MAX. CONDUIT LENGTH 26'
---	3"	(EXISTING) CONDUIT FROM "P1" TO "PB1" (SC1)	MAX. CONDUIT LENGTH 22'
---	2 1/2"	(EXISTING) CONDUIT FROM "P1" TO "CU1" FOR LIQUID COOLING HOSES	MAX. CONDUIT LENGTH 67'
---	(2) 3"	(EXISTING) CONDUITS FROM "PB1" (SC1) TO "PB2" (CR1)	MAX. CONDUIT LENGTH 32'
---	3"	(EXISTING) CONDUIT FROM "SC" (SC1) TO "T1" UNDER FLOOR	MAX. CONDUIT LENGTH 35'
---	2"	(EXISTING) CONDUIT FROM "PB1" (SC1) TO "CU1"	MAX. CONDUIT LENGTH 78'
---	3"	(EXISTING) CONDUIT FROM "PB1" (SC1) TO "PB3" (S)	MAX. CONDUIT LENGTH 32'
---	1"	(NEW) CONDUIT FROM "PB1" (SC1) TO "D1"	MAX. CONDUIT LENGTH 68'
---	2 1/2"	(NEW) CONDUIT FROM "PB1" (SC1) TO "D1"	MAX. CONDUIT LENGTH 42'
---	2"	(NEW) CONDUIT FROM "PB3" (S) TO "D1"	MAX. CONDUIT LENGTH 55'
---	3"	(EXISTING) CONDUIT FROM "PB3" (S) TO "PB2" (CR1)	MAX. CONDUIT LENGTH 31'
---	2"	(EXISTING) CONDUIT FROM "PB3" (S) TO "PB2" (CR1)	MAX. CONDUIT LENGTH 31'
---	3"	(NEW) CONDUIT FROM "CRB" TO "T1" UNDER FLOOR (VOLCANO SS1 CABLE SET)	MAX. CONDUIT LENGTH 68'
---	3"	(EXISTING) CONDUIT FROM "T1" TO "B10" UNDER FLOOR	MAX. CONDUIT LENGTH 68'
---	3"	(EXISTING) CONDUIT FROM "CRB" TO "B10" UNDER FLOOR (CUSTOMER PATIENT MONITORING)	MAX. CONDUIT LENGTH 68'
---	2"	(NEW) CONDUIT FROM "PB3" (S) TO "CUSTOMER MONITOR" (LIVE+REF VIDEO TO OEM OPTION)	MAX. CONDUIT LENGTH 86'

ELECTRICAL NOTES

1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION.

2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFORMANCE FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER.

3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDING 3 OR 4-WIRE "WYE" SOURCE PER THE SPECIFIC EQUIPMENT OPERATOR REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING, NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE.

4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS HEALTHCARE BUT TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: UNLESS NOTED OTHERWISE, ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING DEVICES, CONNECTORS, LOGS, AND PARTITIONED RACEWAYS AND GROUNDING.

5) RACEWAY AND CONDUIT NOTES: ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE.

CONDUIT BODIES SHALL NOT BE USED, WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROUGH CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW TYPE.

KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAYS RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY.

CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS. IN THE SHORTEST PRACTICAL DISTANCE, CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED, THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. LISTED CONDUIT SIZES FOR SIEMENS-SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH TO WITHIN THE RACEWAY.

PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER AND SIEMENS HEALTHCARE CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY TO SEPARATE THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM CERTIFICATION OF THE EQUIPMENT. SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS.

PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF BUILDING MATERIAL OPENINGS (E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIREMENTS AND BUILDING STRUCTURE. THOSE THAT ARE NOT INDICATED OR INTERFERE WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL RACEWAYS AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULLED STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY, IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.

WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24" x 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION (SUCH AS A 90 DEGREE ELBOW OR TEE) IN DUCT/RACEWAY. THERE MUST BE FREE AND CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE.

6) WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED TYPE THHN/THWN-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90° C (194° F), SIZED AS INDICATED, INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE A MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR.

7) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 35,000A RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

CONDUIT LENGTH CALCULATIONS

IF SITE-SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES, THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS LISTED.

IF DUCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT, IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM CONDUIT LENGTHS:

VERTICAL DUCTS - 12'-0"

FLOOR PENETRATIONS - 3'-0"

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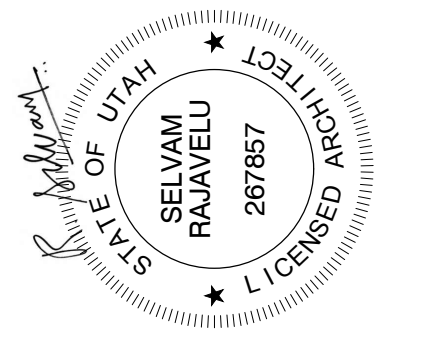
PROJECT MANAGER: CHRISTOPHER THOMAS TEL.: (801) 209-8582 FAX: EMAIL: christopher.thomas@siemens-healthineers.com		SIEMENS	
PROJECT #: 1803659		SHEET: E-101	
SHEET 7 OF 7		DRAWN BY: M. GONZALEZ	
DATE: 11/02/18		SCALE: AS NOTED	
REF: 4/0219677			

Intermountain Healthcare
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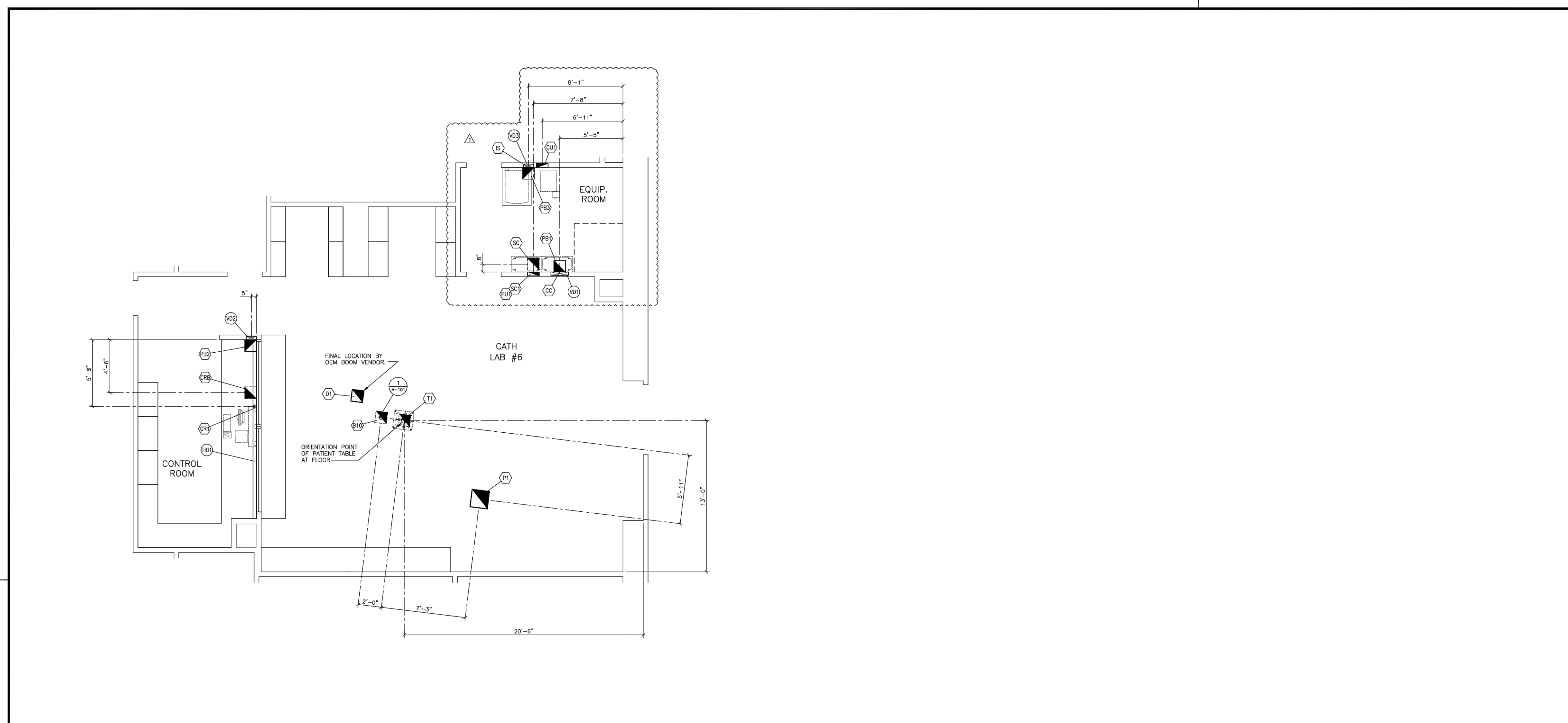
5121 South Cottonwood Street
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NJRA Project # 18226.00
Construction Documents March 27, 2019

Siemens
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ELECTRICAL DIMENSION PLAN

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

CEILING HEIGHT REQUIREMENT
8 FT. - 11 IN.

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PROJECT MANAGER: CHRISTOPHER THOMAS TEL: (801) 209-8582 EXT: EMAIL: christopher.thomas@siemens-healthineers.com		SIEMENS	
ADDITION OF OEM BOOMS PER CUSTOMER REQUEST 02/21/19		5121 COTTONWOOD STREET, MURRAY, UT, 84107 CATH LAB #6 - ARTIS Q.ZEN CEILING	
REVISED EQUIPMENT ROOM PER CUSTOMER REQUEST 02/01/19		PROJECT #: 1803659	
8-1015101 VERSION DATED 09/24/18 APPROVED BY CUSTOMER FOR FINALS 11/02/18		SHEET: E-102	
ALL RIGHTS ARE RESERVED.		SHEET OF 6 DRAWN BY: M. GONZALEZ	
-ISSUE BLOCK-		SCALE: AS NOTED REF: #0219677 DATE: 11/02/18	

REV. 02/21/19
REV. 19

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

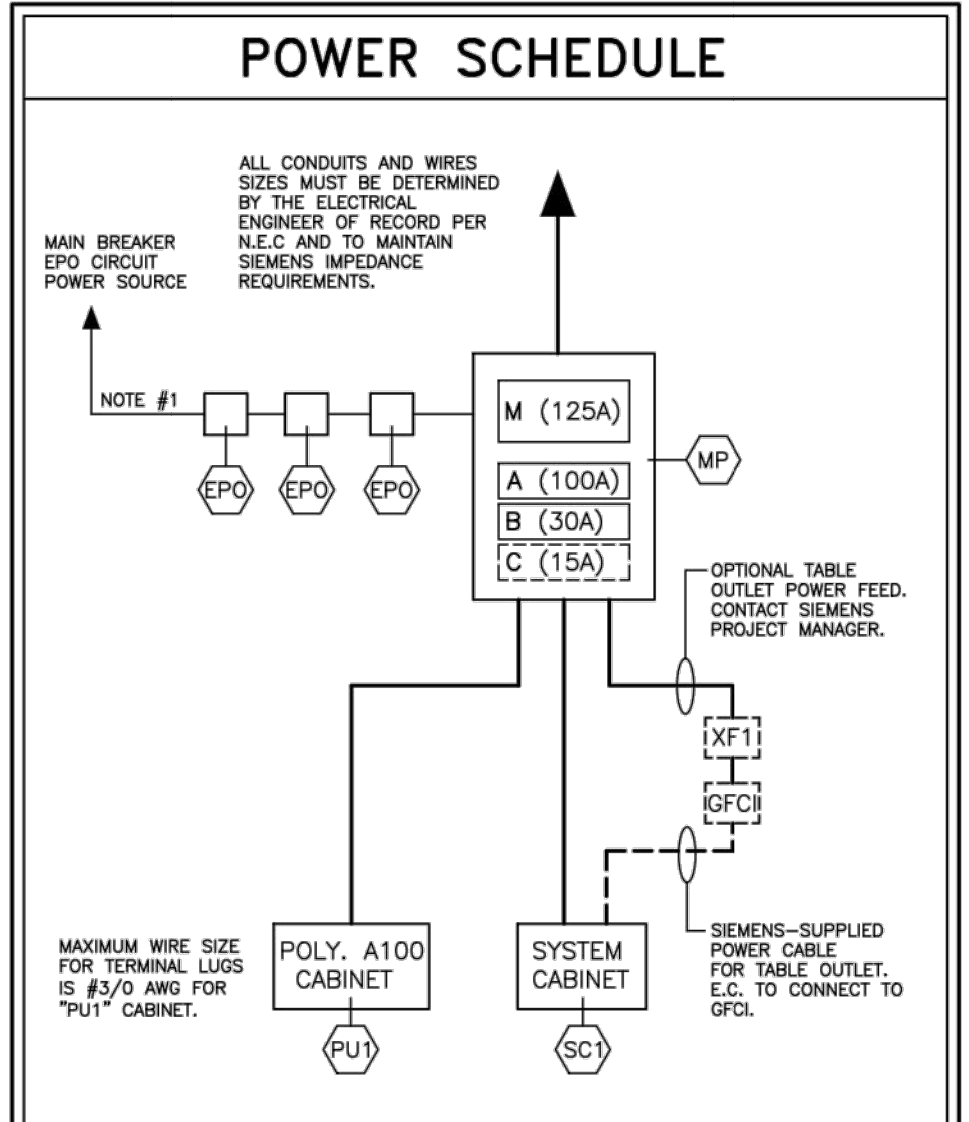
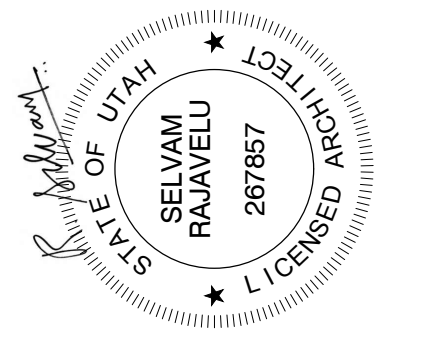
Intermountain Healthcare
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5121 South Cottonwood Street
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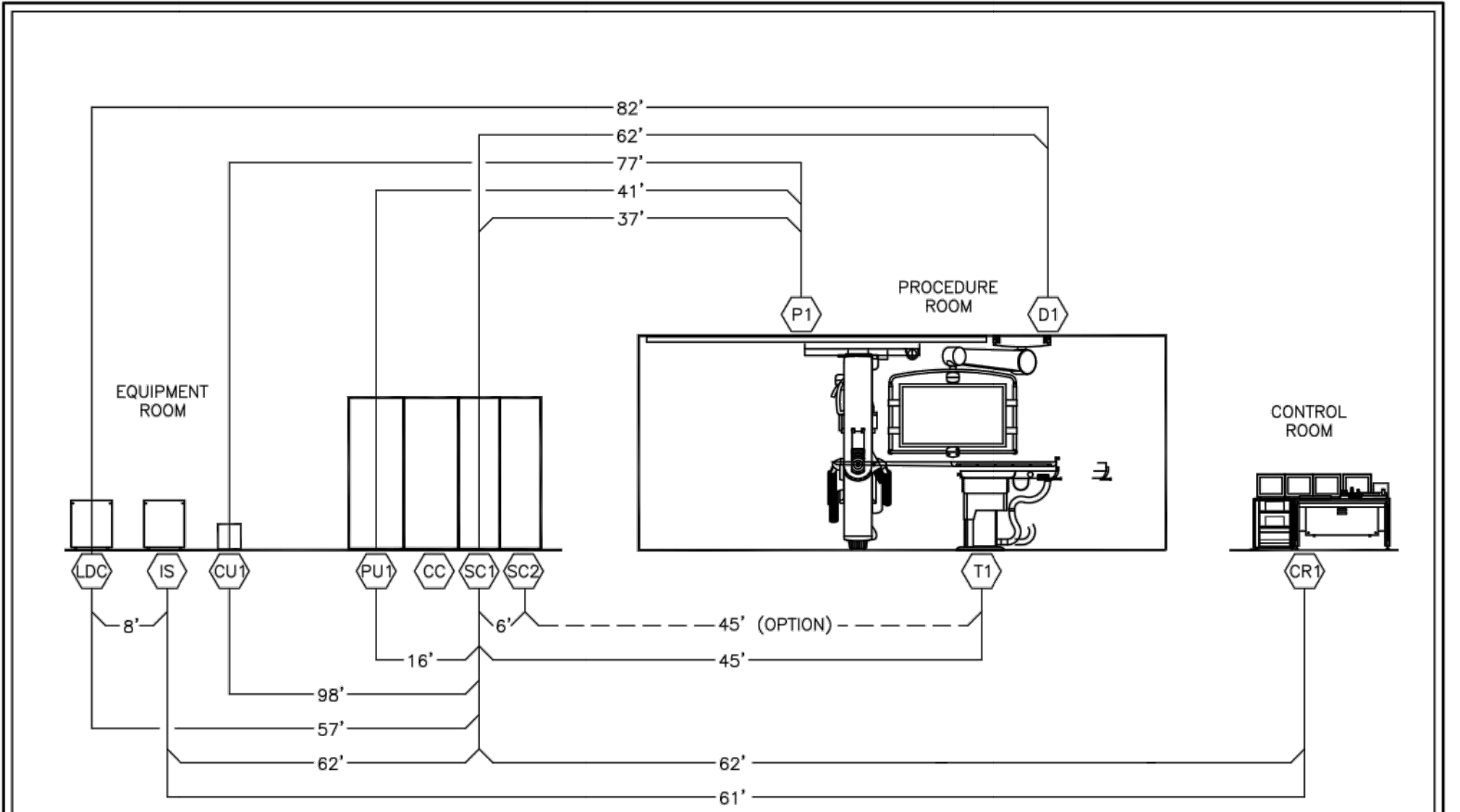


ITEM	QTY	DESCRIPTION
M	1	MAIN PANEL WITH CIRCUIT BREAKERS FLUSH OR SURFACE MOUNTED.
MP	1	MAIN BREAKER MUST HAVE TRIPPING DEVICE SO WHEN ANY EPO IS PRESSED, THE MAIN BREAKER TRIPS.
MAIN BREAKER AMPS: 125		
VOLTS PHASES NEUTRAL GROUND TOTAL WIRES		
480/277Y 3 1 1 5 (NOTE 1)		
A	1	BREAKER AMPS: 100 (FOR PU1)
VOLTS PHASES NEUTRAL GROUND TOTAL WIRES		
480Y 3 0 1 4 (NOTE 1)		
B	1	BREAKER AMPS: 30 (FOR SC1)
VOLTS PHASES NEUTRAL GROUND TOTAL WIRES		
480/277Y 3 1 1 5 (NOTE 1)		
C	1	BREAKER AMPS: 15 (FOR STEP-DOWN XFMR "XF1")
VOLTS PHASES NEUTRAL GROUND TOTAL WIRES		
480 1 (L1,L2) 0 1 3		
XF1	1	750VA, 480V PRIMARY, 120V GROUND SECONDARY STEP-DOWN SINGLE-PHASE TRANSFORMER WITH PRIMARY AND SECONDARY FUSE PROTECTION FOR TABLE OUTLET POWER, CONNECTED TO AN ADJACENT FLUSH WALL-MOUNTED 15A, 125WAC UL 943 GFCI WITH BLANK FACE (NO CONTACT OPENINGS OR NEMA CONFIGURATION) WITH LED INDICATION, PUSH-TO-TEST AND PUSH-TO-RESET BUTTONS, AND A CLEAR LEXAN HINGED COVER TO AVOID INADVERTENT MANUAL TRIP.
1) ALL WIRES MUST BE SAME SIZE.		
NOTE: UNLESS OTHERWISE NOTED, ALL BREAKERS WILL BE 80% RATED		
EPD	VARIES	NOTE 1 - EPO CIRCUIT #1

POWER QUALITY

POOR POWER WILL ALTER EQUIPMENT PERFORMANCE

IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.



POWER REQUIREMENTS

WIRING SYSTEM: 480Y/277V, 3 PHASE, 5-WIRE, 60 HZ.

MINIMUM POWER SUPPLY:

IF AN ON-SITE TRANSFORMER IS REQUIRED TO OBTAIN OPERATING VOLTAGE, IT MUST BE OF SUFFICIENT CAPACITY AND CHARACTERISTICS TO MAINTAIN SUPPLY VOLTAGE AND IMPEDANCE REQUIREMENTS (TRANSFORMER AND CONDUCTORS).

X-RAY GENERATOR (PU1) MOMENTARY RATING: (RADIOGRAPHIC EXPOSURE) 162 KVA

X-RAY GENERATOR (PU1) LONG-TIME RATING: (FLUOROSCOPY) 8 KVA

SYSTEM CABINET (SC1) LONG-TIME RATING: 8.5 KVA

LINE IMPEDANCE ≤ 120 (mΩ)

POWER QUALITY PARAMETERS

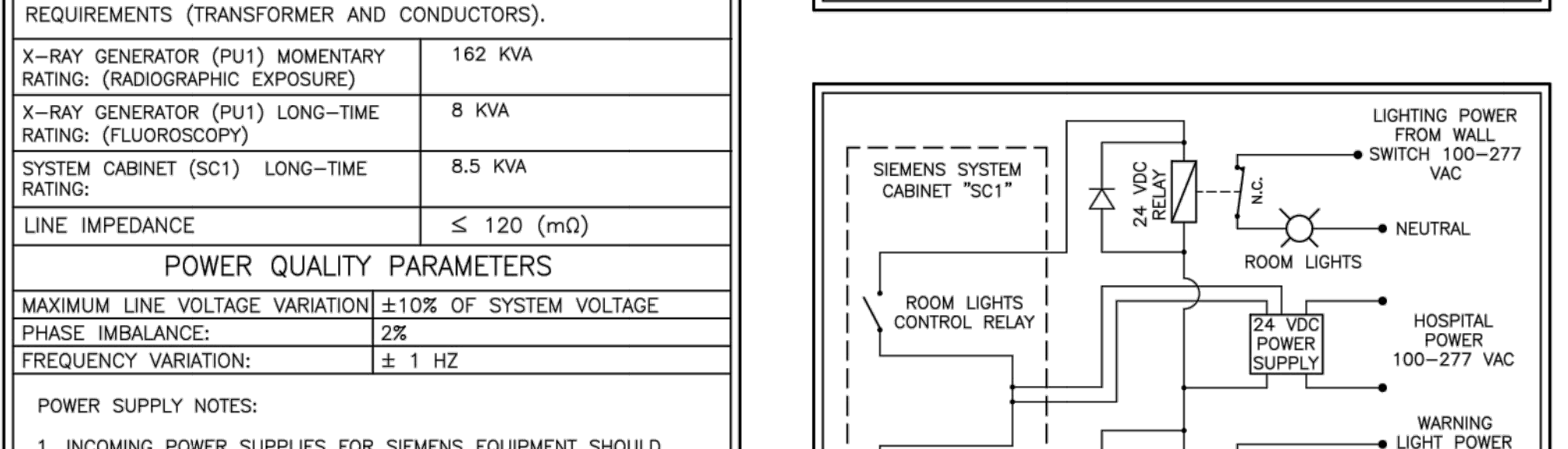
MAXIMUM LINE VOLTAGE VARIATION ±10% OF SYSTEM VOLTAGE

PHASE IMBALANCE: 2%

FREQUENCY VARIATION: ± 1 HZ

POWER SUPPLY NOTES:

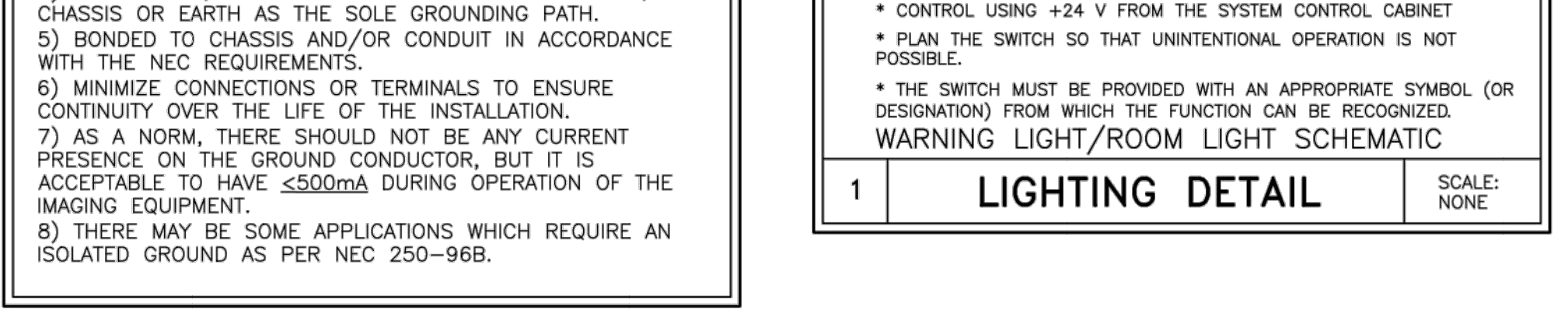
1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC.
2. SIEMENS HEALTHCARE REQUIRES THAT THE INCOMING POWER MEETS THE POWER QUALITY REQUIREMENTS.



GROUNDING NOTES

EQUIPMENT GROUND CONDUCTOR TO COMPLY WITH THE FOLLOWING:

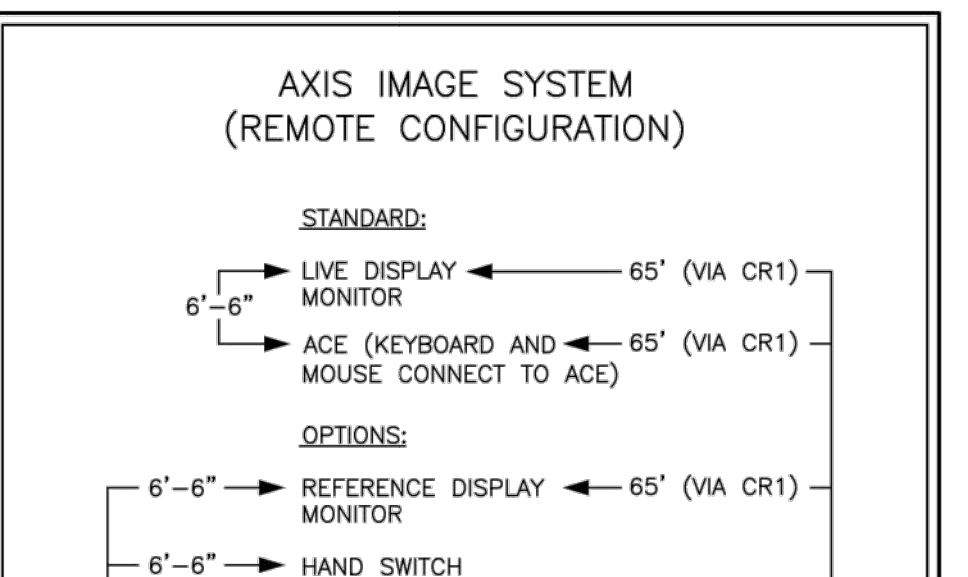
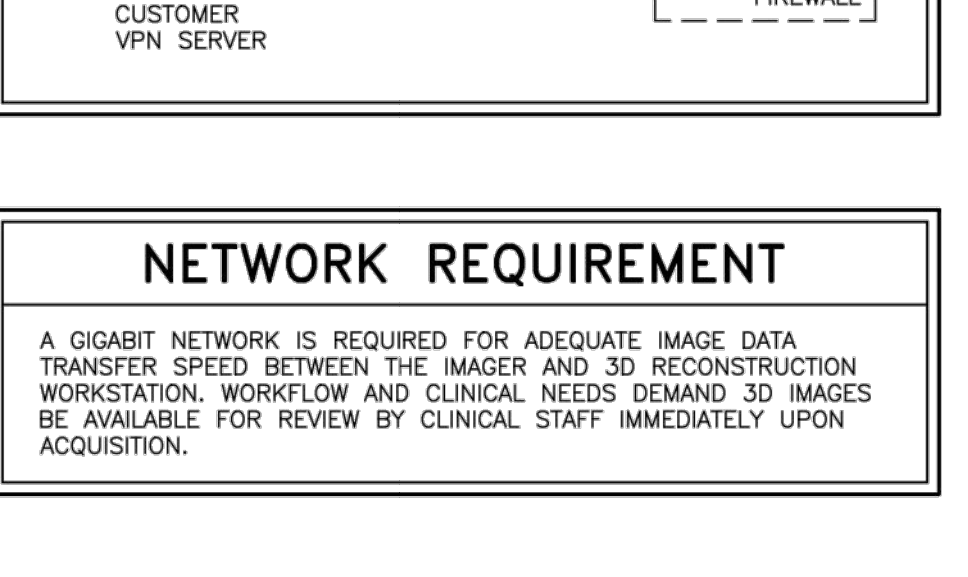
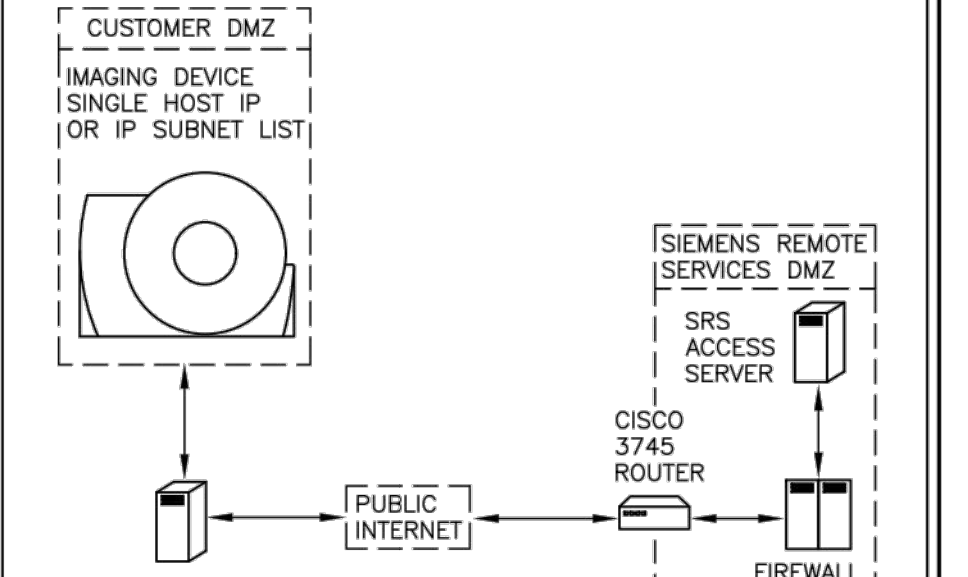
- 1) SIZED EQUIVALENT TO THE PHASE CONDUCTORS (FULL SIZED GROUND).
- 2) DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER OR MAIN DISTRIBUTION PANEL FEEDING THE SIEMENS EQUIPMENT.
- 3) RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE PHASE CONDUCTORS.
- 4) CONTINUOUS, WITH NO BREAKS OR USE OF CONDUIT, CHASSIS OR EARTH AS THE SOLE GROUNDING PATH.
- 5) BONDED TO CHASSIS AND/OR CONDUIT IN ACCORDANCE WITH THE NEC REQUIREMENTS.
- 6) MINIMIZE CONNECTIONS OR TERMINALS TO ENSURE CONTINUITY OVER THE LIFE OF THE INSTALLATION.
- 7) AS A NORM, THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR, BUT IT IS ACCEPTABLE TO HAVE <500mA DURING OPERATION OF THE IMAGING EQUIPMENT.
- 8) THERE MAY BE SOME APPLICATIONS WHICH REQUIRE AN ISOLATED GROUND AS PER NEC 250-96B.



SIEMENS REMOTE SERVICE

TO ENSURE THE UPTIME OF YOUR SYSTEM DURING THE WARRANTY PERIOD (AND BEYOND WITH A SERVICE AGREEMENT), SIEMENS REMOTE SERVICES (SRS) REQUIRES REMOTE LOCAL AREA NETWORK ACCESS TO SIEMENS SYSTEMS.

THE PREFERRED CONNECTION METHOD IS (VPN) VIRTUAL PRIVATE NETWORK (WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE). THIS METHOD PROVIDES THE POSSIBILITY FOR REMOTE SYSTEM DIAGNOSTICS WITHOUT ADDITIONAL HARDWARE. PLEASE CONTACT SIEMENS REMOTE SERVICES (800-888-SIEM) TO DETERMINE IF THIS METHOD IS SUITABLE FOR YOUR SITE.



CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
PANEL	1	MP	ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND	SEE "POWER SCHEDULE"
MP	2	PU1	3#2, 1#2 GROUND AND CONNECT	SEE "POWER SCHEDULE"
MP	3	SC1	3#6, 1#6 NEUTRAL, 1#6 GROUND AND CONNECT	SEE "POWER SCHEDULE"
MP	4	EPO	2#12, PLUS GROUND	SEE "POWER SCHEDULE"
EPO	5	EPO	2#12, PLUS GROUND	EMERGENCY POWER
SC1	6	WL	2#14-18 AWG	SEE "LIGHTING DETAIL" SHEET E-501
SC1	7	DS	24V SIGNAL, 2#14-18 AWG	DOOR SWITCH

SIEMENS SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
P1	8, PB1, VD1	PU1	P1 LEFT SIDE	MAXIMUM LENGTH 41"
P1	9, PB1, VD1	PU1	(2) HIGH VOLTAGE CABLES P1 LEFT SIDE	MAXIMUM LENGTH 41"
P1	10, PB1, VD1	SC1	P1 LEFT SIDE	MAXIMUM LENGTH 37"
P1	11	CU1	FOR LIQUID COOLING HOSES (P1 LEFT SIDE)	MAXIMUM LENGTH 77"
SC1	VD1, PB1, 12, PB2, VD2, HD1	CR1	FOR CONTROL ROOM OPTIONS (CONTROL MODULES, FOOT SWITCH, DISPLAY, ECC)	MAXIMUM LENGTH 62"
SC1	VD1, PB1, 13	T1	NOT WITH OR TABLE	MAXIMUM LENGTH 45"
SC1	VD1, PB1, 14	CU1		MAXIMUM LENGTH 98"
SC1	BETWEEN CABINETS	PU1		MAXIMUM LENGTH 16"
SC1	VD1, PB1, 15, PB3, VD3	IS	62" CABLES SELECTABLE ON FACTORY CHECKLIST	MAXIMUM LENGTH 28"
SC1	VD1, PB1, 16	D1	OEM DISPLAY CONNECTION	MAXIMUM LENGTH 98"
SC1	VD1, PB1, 17	D1	OEM DISPLAY CONNECTION	MAXIMUM LENGTH 62"
IS	VD3, PB3, 18	D1	OEM DISPLAY CONNECTION	MAXIMUM LENGTH 75"
IS	VD3, PB3, 20, PB2, VD2, HD1	CR1		MAXIMUM LENGTH 61"
CRB	21	T1	VOLCANO IUS (VOLCANO S51 CABLE SET)	MAXIMUM LENGTH 98"
T1	22	BT0		
CRB	23	BT0	CUSTOMER PATIENT MONITORING, ETC.	
IS	VD3, PB3, 24	CUSTOMER MONITOR	LIVE-REF VIDEO INTERFACE TO OEM (OPTION)	MAXIMUM LENGTH 110"

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PROJECT MANAGER: CHRISTOPHER THOMAS
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SIEMENS

INTERMOUNTAIN MEDICAL CENTER
5121 COTTONWOOD STREET, MURRAY, UT, 84107
CATH LAB #6 - ARTIS Q.ZEN CEILING

PROJECT #: **1803659**

SHEET: **E-501**

DATE: 11/02/18

SCALE: AS NOTED

REF: 0219677

DATE: 11/02/18

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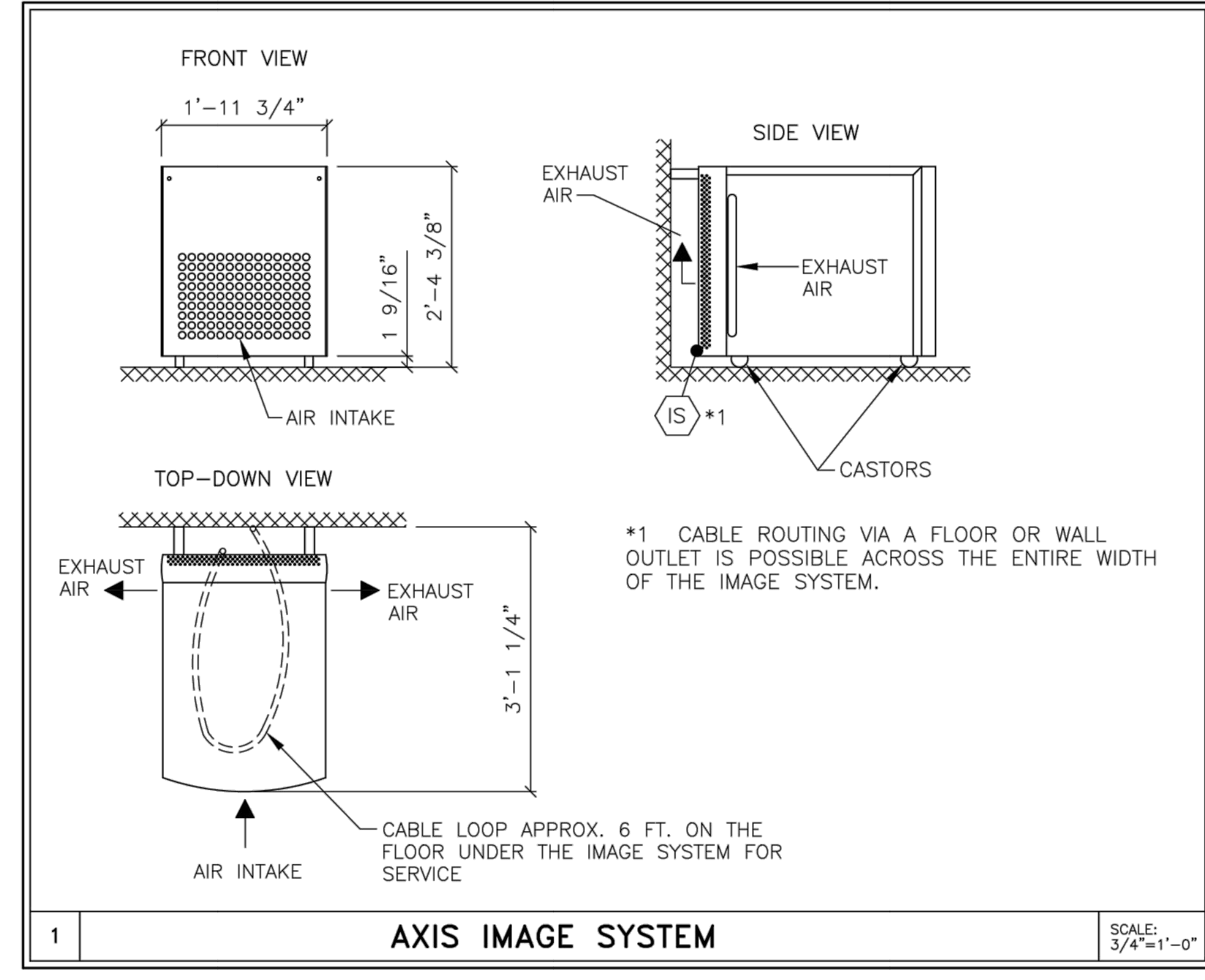
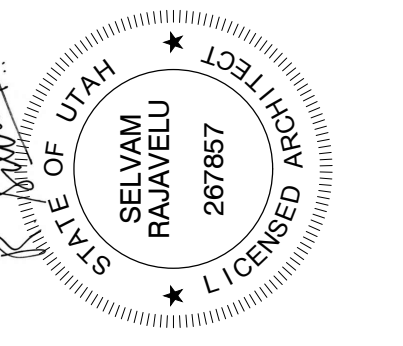
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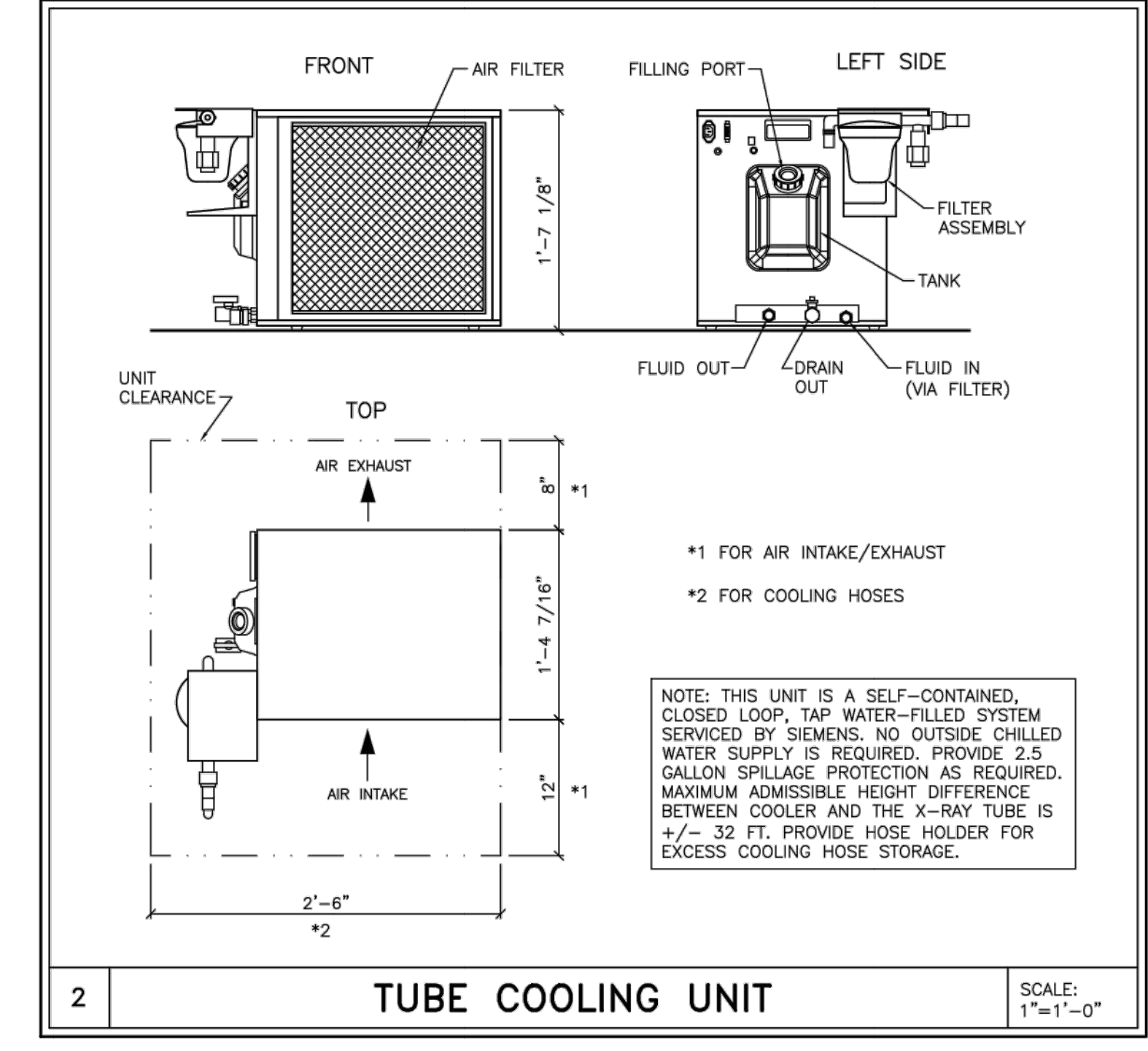
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HEAT LOADS
FOR BTU'S OF SIEMENS EQUIPMENT, REFER TO THE EQUIPMENT LEGEND, SHEET A-101.

ENVIRONMENTAL CONDITIONS	
EXAMINATION AND CONTROL ROOM	TEMPERATURE RANGE: 59°F-86°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH FLAT PANEL DETECTOR RELATIVE HUMIDITY: 20% - 75% NON-CONDENSING
AXIS IMAGE SYSTEM	TEMPERATURE RANGE: 50°F-86°F (RECOMMENDED TEMPERATURE 70°F) RELATIVE HUMIDITY: 20%-75% NON CONDENSING MAX. TEMP. GRADIENT: 18° F/HR AIR FLOW VOLUME: 500 CFM MAX. NOISE GENERATION: 53 dB(A)
POLYDOROS A100 GENERATOR	TEMPERATURE RANGE: 50°F-86°F (RECOMMENDED TEMPERATURE 70°F) RELATIVE HUMIDITY: 20%-75% NON CONDENSING MAX. TEMP. GRADIENT: 9° F/HR AIR FLOW VOLUME: 94 CFM MAX. NOISE GENERATION: 55 dB(A)
SYSTEM CONTROL CABINET	TEMPERATURE RANGE: 59°F-86°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH IMAGE INTENSIFIER 59°F-86°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH FLAT PANEL DETECTOR RELATIVE HUMIDITY: 20% - 75% NON-CONDENSING MAX. TEMP. GRADIENT: 9° F/HR AIR FLOW VOLUME: 294 CFM MAX. NOISE GENERATION: 48 dB(A)
TUBE COOLING UNIT	TEMPERATURE RANGE: 41°F-86°F (RECOMMENDED TEMPERATURE 70°F) RELATIVE HUMIDITY: FROST FREE AIR FLOW VOLUME: 559 CFM MAX. NOISE GENERATION: 55 dB(A) AT 50 HZ, 59 dB(A) AT 60 HZ
STAND WITH FLAT PANEL DETECTOR	MAXIMUM TEMPERATURE GRADIENT: 9° F/HR ATMOSPHERIC PRESSURE: 700hPa - 1040hPa SHOCKS: MAXIMUM 10G/16MS VIBRATIONS: MAXIMUM 0.1G/10-200HZ



CEILING HEIGHT REQUIREMENT
8 FT. - 11 IN.

PROJECT MANAGER: CHRISTOPHER THOMAS TEL: (801) 209-6582 FAX: EXT: EMAIL: christopher.thomas@siemens-healthineers.com		SIEMENS	
INTERMOUNTAIN MEDICAL CENTER 5121 COTTONWOOD STREET, MURRAY, UT, 84107 CATH LAB #6 - ARTIS Q.ZEN CEILING			
PROJECT #: 1803659		SHEET: M-501	
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SCALE: AS NOTED		DATE: 11/02/18	
REF: 50219677			

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