

NOTE: THE UPS IS SUPPLIED AND DELIVERED TO CUSTOMER'S LOADING DOCK BY SIEMENS. CUSTOMER'S ELECTRICIAN IS RESPONSIBLE FOR MOVING FROM LOADING DOCK TO FINAL LOCATION AND COMPLETING ALL CONNECTIONS. THE UPS MUST NOT BE LOCATED IN A PATIENT ENVIRONMENT. SIEMENS PROJECT MANAGER WILL SCHEDULE UPS STARTUP PRIOR TO DELIVERY OF SIEMENS IMAGING EQUIPMENT.

IT IS THE RESPONSIBILITY OF THE CUSTOMER/CONTRACTOR TO PROVIDE A MEANS OF MOUNTING THE SYNGO X PC TOWER OFF OF FINISHED FLOOR FOR DAMAGE PROTECTION AGAINST TIP-OVER, FLUIDS, IMPACT, ETC.

SINKS, COUNTERTOPS AND ALL CASEWORK SHOWN IS SUGGESTED AND MUST BE DESIGNED SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.

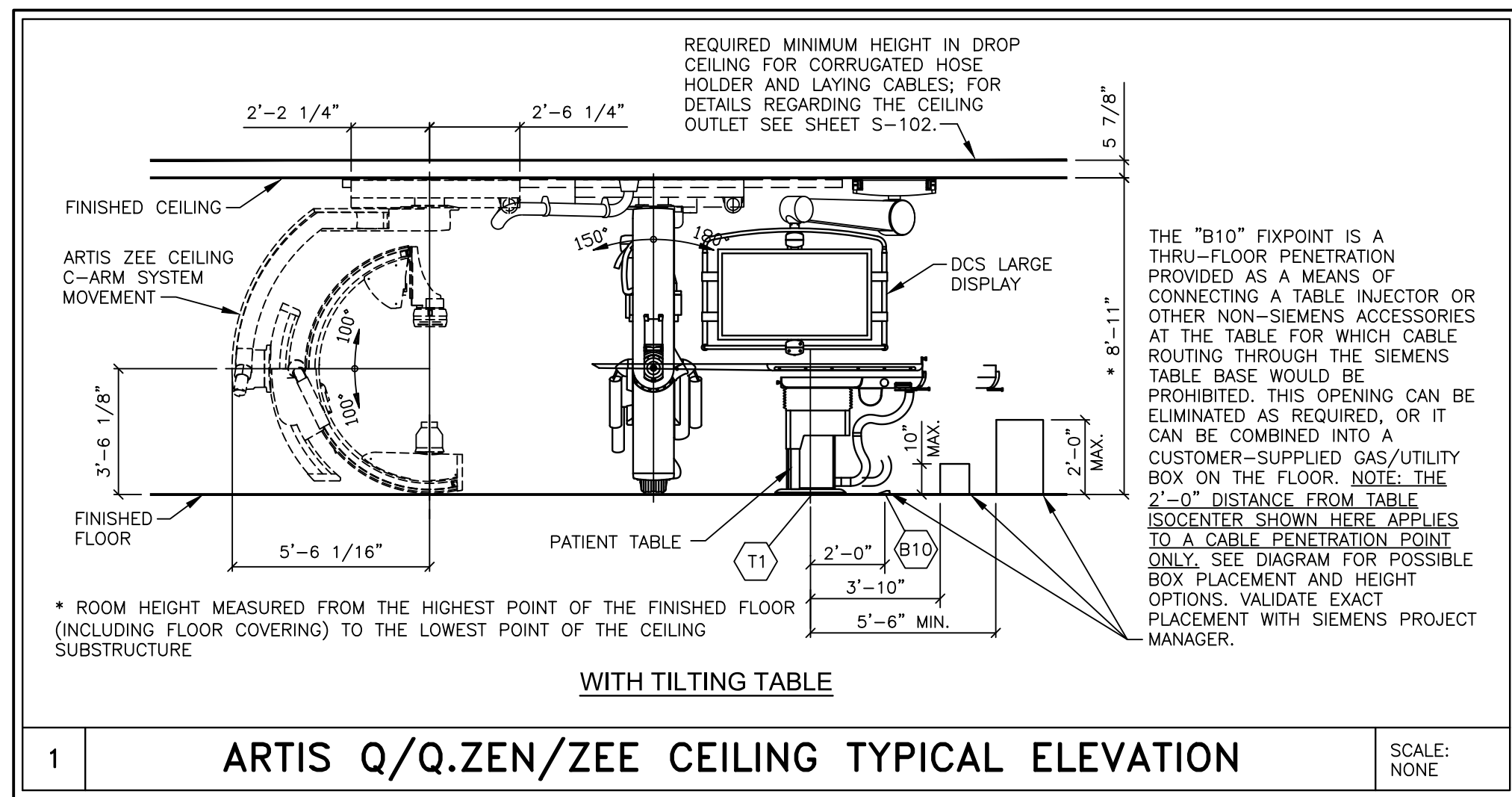
THIS SET OF FINAL DRAWINGS IS REFLECTIVE OF THE LATEST SALES CONFIGURATION. ANY CHANGES TO THIS SALES CONFIGURATION MAY REQUIRE A REVISION TO THIS PROJECT PLAN. IF REQUESTED, SIEMENS WILL PROVIDE A REVISED SET OF FINAL DRAWINGS TO REFLECT THE CHANGES, HOWEVER SIEMENS IS NOT RESPONSIBLE FOR ANY CONSTRUCTION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

UPS AND IEC ARE FROM ROOM 1D-119. SEE SIEMENS DRAWING 191567 FOR LOCATION.

UPS ROOM 1D-120

ARCHITECTURAL EQUIPMENT PLAN

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



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, B/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	

CEILING HEIGHT REQUIREMENT

8 FT. - 11 IN.

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
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	30" ARTIS COCKPIT COLOR DISPLAY	⊖	35	580	27 1/8	10	27 3/4	ON COUNTER
5	ARTIS COCKPIT CONTROLLER	⊖	33	1,365	7	22	17 1/2	ON FLOOR
6	SYNGO X WORKSTATION TOWER	⊖	40	2,730	7 1/2	19	17	ON FLOOR
7	INTERCOM POWER UNIT	⊖	---	---	6 3/4	5	1 3/8	ON COUNTER
8	INTERCOM MICROPHONE/LOUDSPEAKER (CONTROL ROOM)	⊖	---	---	4 1/2	9	2	ON COUNTER
9	INTERCOM LOUDSPEAKER (PROCEDURE ROOM)	⊖	---	---	3 1/4	2	6	WALL MOUNTED
10	TABLE CONTROL MODULES	⊖	13.8	---	16 1/2	8 3/4	3 1/2	ON TABLE
11	DCS EXTENDED W/ LARGE DISPLAY	⊖	464	1,706	167	60 3/4	50 3/4	CEILING SUSPENDED
12	ADDITIONAL DISPLAY MONITOR FOR DCS LARGE DISPLAY	⊖	21	239	16 1/4	8 1/8	18	DCS OR BOOM MOUNTED
13	ARTIS Q.ZEN CEILING C-ARM STAND	⊖	1,994	682	---	---	---	C-ARM CEILING SUSPENDED
14	PATIENT TABLE (O.R. TABLE)	⊖	1,169	683	---	---	---	FLOOR MOUNTED
15	UPPER BODY RADIATION SHIELD 4 M TRACK	⊖	196	---	---	---	---	TRACK MOUNTED
16	MAVIG LAMP	⊖	48	---	---	---	---	---
17	2ND UPPER BODY RADIATION SHIELD 4 M TRACK (OPTION)	⊖	196	---	---	---	---	TRACK MOUNTED
18	2ND MAVIG LAMP	⊖	48	---	---	---	---	---
19	POLYDOROS A100 GENERATOR CABINET	⊖	723	4,094	31 1/2	17 1/8	87	FLOOR MOUNTED
20	SYSTEM CONTROL CABINET	⊖	655	5,460	31 1/2	17 1/8	87	FLOOR MOUNTED
21	SYSTEM CONTROL CABINET (O.R. TABLE ONLY)	⊖	276	682	23 1/2	17 1/8	87	FLOOR MOUNTED
22	LARGE DISPLAY CONTAINER FOR DCS LD	⊖	253	1,535	23	37 1/2	28 3/8	ON CASTERS
23	AXIS IMAGE SYSTEM	⊖	331	4,347	23 3/4	37 1/4	28	ON CASTERS
24	TUBE COOLING UNIT	⊖	80	15,355	16 1/2	28 1/4	19 1/4	FLOOR MOUNTED
25	EATON 93PM 150KW UPS WITH BATTERY CABINET	⊖	5,791	17,102	71	42	74	SEE MFG REQUIREMENTS
26	EATON 93PM REMOTE MONITORING DEVICE	⊖	0.5	---	6	1	3	SEE MFG REQUIREMENTS
27	INTEGRATED ELECTRICAL CABINET (IEC)	⊖	67	---	20	8	30	WALL MOUNTED
28	MEDRAD MARK 7 ARTERION INJECTOR INTEGRATED PEDESTAL MOUNTED	⊖	146	---	47 5/16	22	57 3/8	SEE MFG REQUIREMENTS

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 ENCRUSCH 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/CLEARANCE REQUIREMENTS 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 SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED 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.R. 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 PAINT, 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.
- 10) CUSTOMER/CONTRACTOR MUST ASSIST SIEMENS INSTALLERS WITH INSTALLATION OF EQUIPMENT ABOVE 14'-0". REFER TO THE ELECTRICAL NOTES ON SIEMENS SHEET E-101 FOR MORE DETAILS.

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), 2,006 LBS.
CEILING RAILS ARE 14 FT.(L) x 3"(W) x 3"(H)
MIN. CORRIDOR WIDTH: 82.7"

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
ARTIS Q / Q.ZEN CEILING	AXAQ-060.891.01.01.02	04.13

NOTE Q/ZEN/CEILING REV. 21

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SIEMENS

HUNTER HOLMES MCQUIRE VAMC

1201 BROAD ROCK BLVD. RICHMOND, VA. 232249
ROOM 1D-116 - ARTIS Q.ZEN CEILING

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SCALE: AS NOTED REF. # 00225153

PROJECT #:

1901568

SHEET 1 OF 8

DATE: 08/20/19

DRAWN BY: M. GONZALEZ

SHEET:

A-101

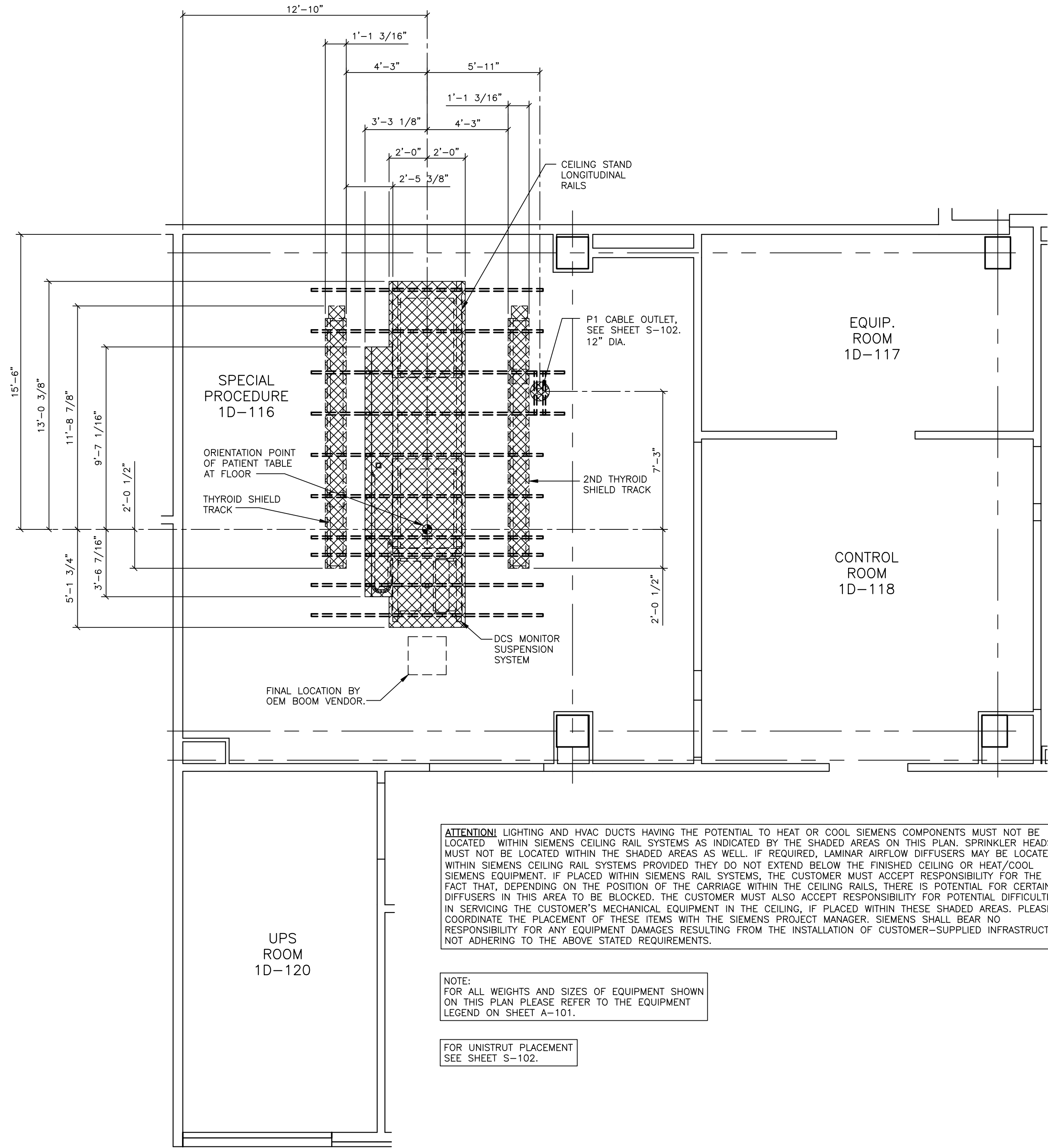
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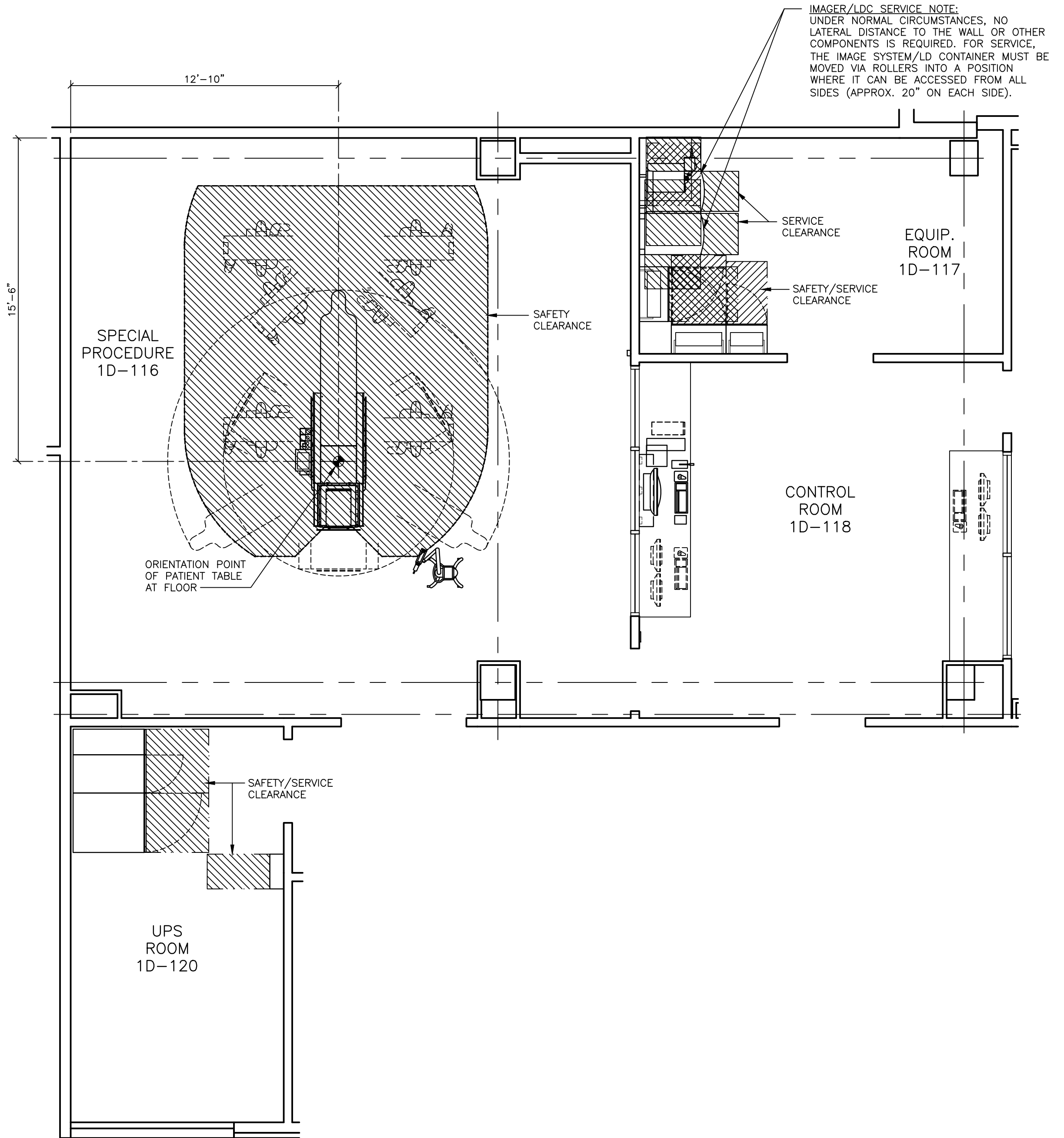
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SYM	DATE	DESCRIPTION
Δ	08/20/19	R-101R(D) VERSION DATED 07/26/19 APPROVED BY CUSTOMER FOR FINALS
-ISSUE BLOCK-		



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.

NOTE Q/ZEN/REV. CEILING
REV. 21

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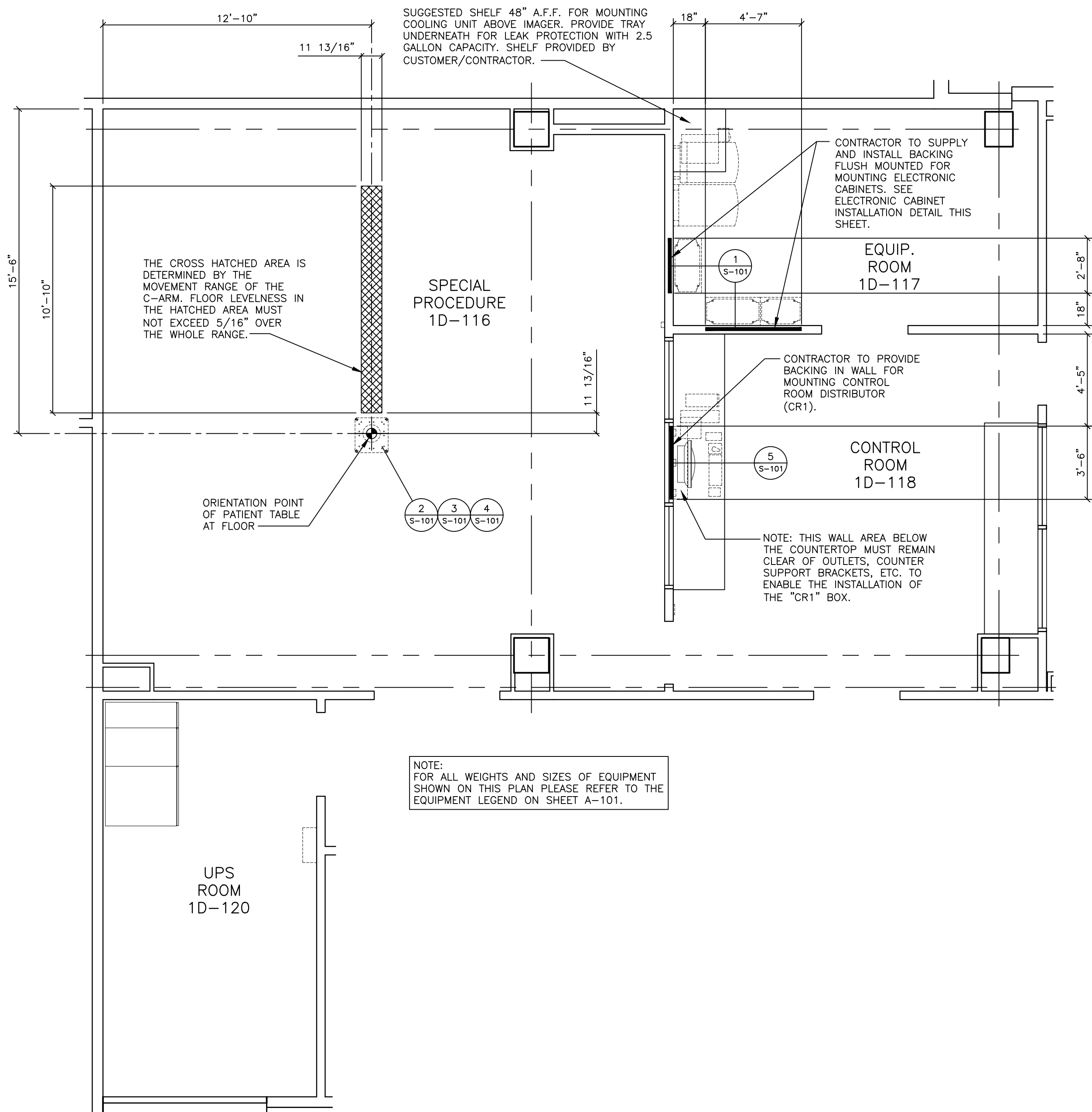
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CEILING
HEIGHT
REQUIREMENT

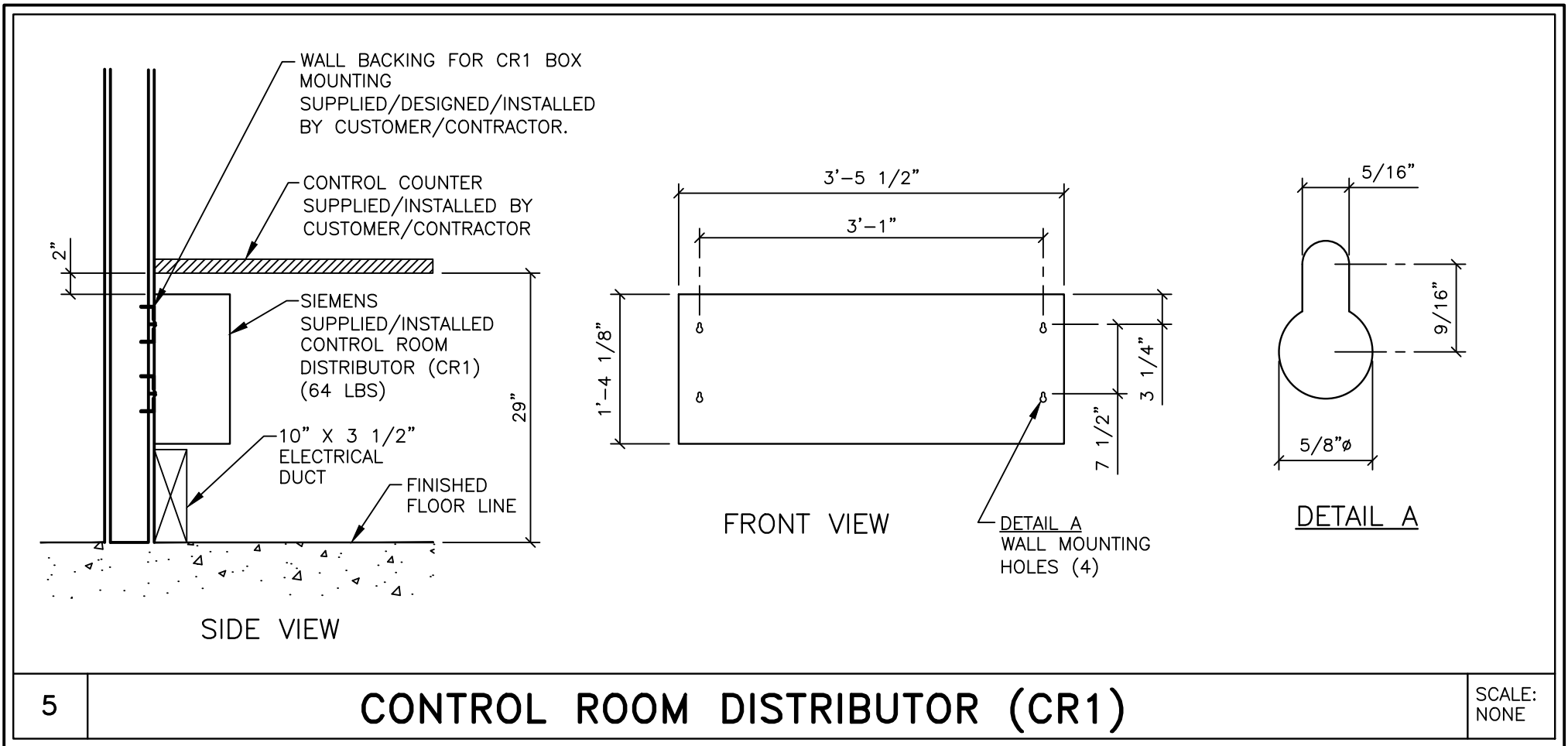
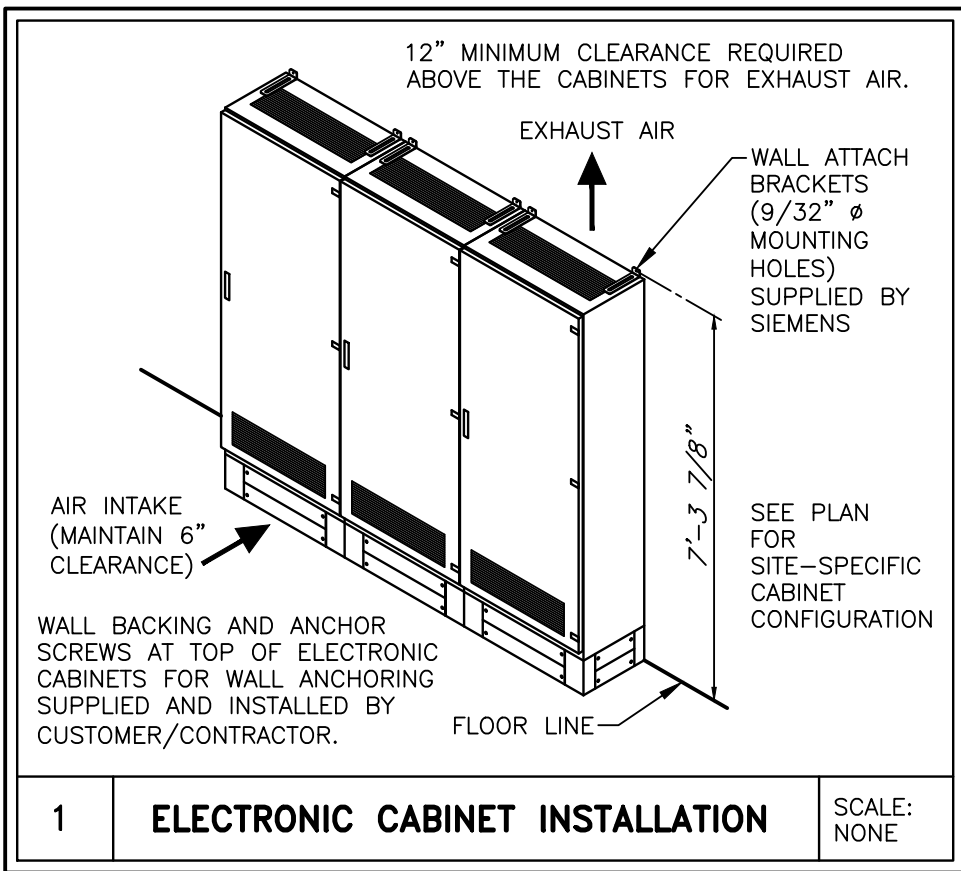
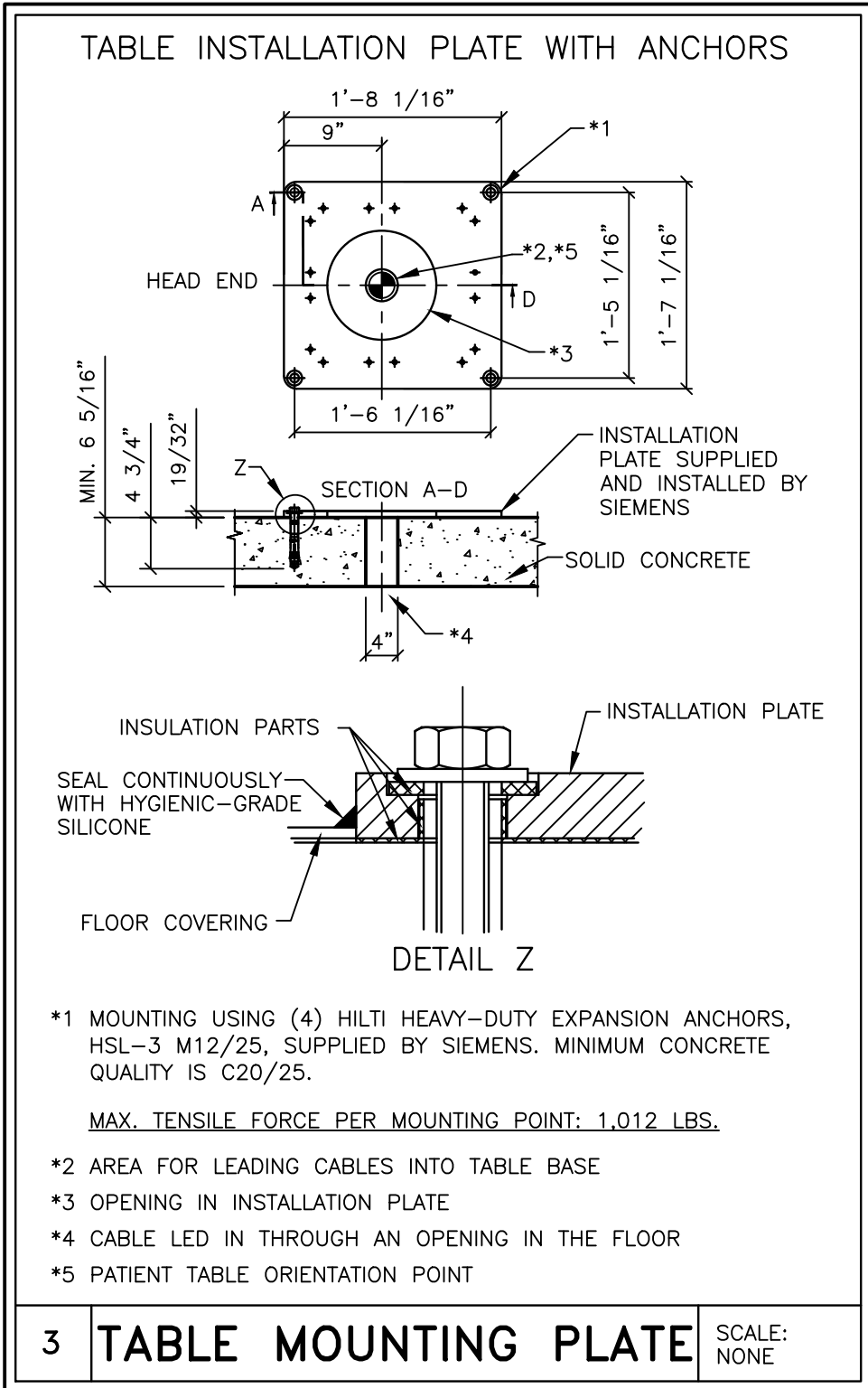
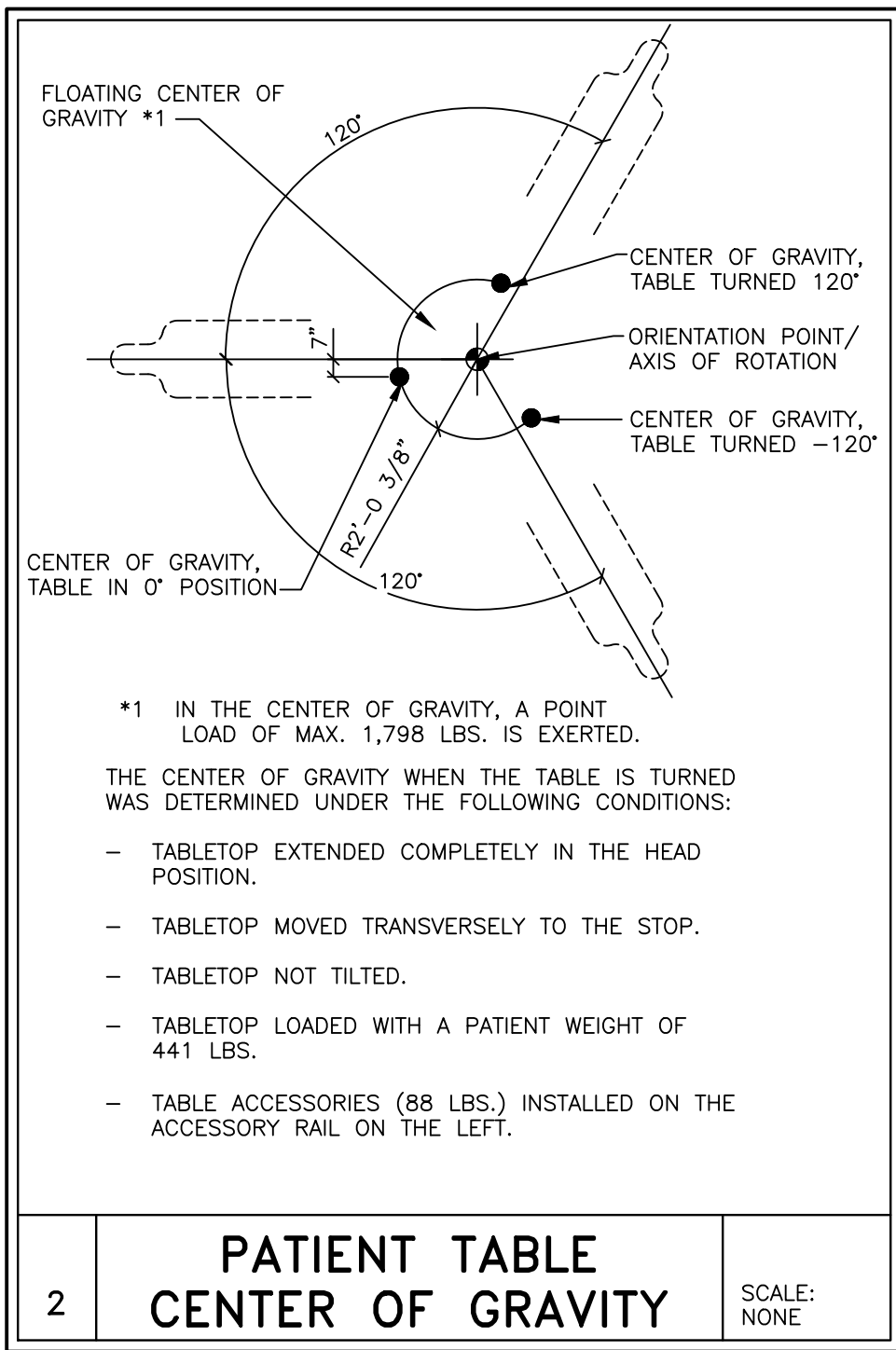
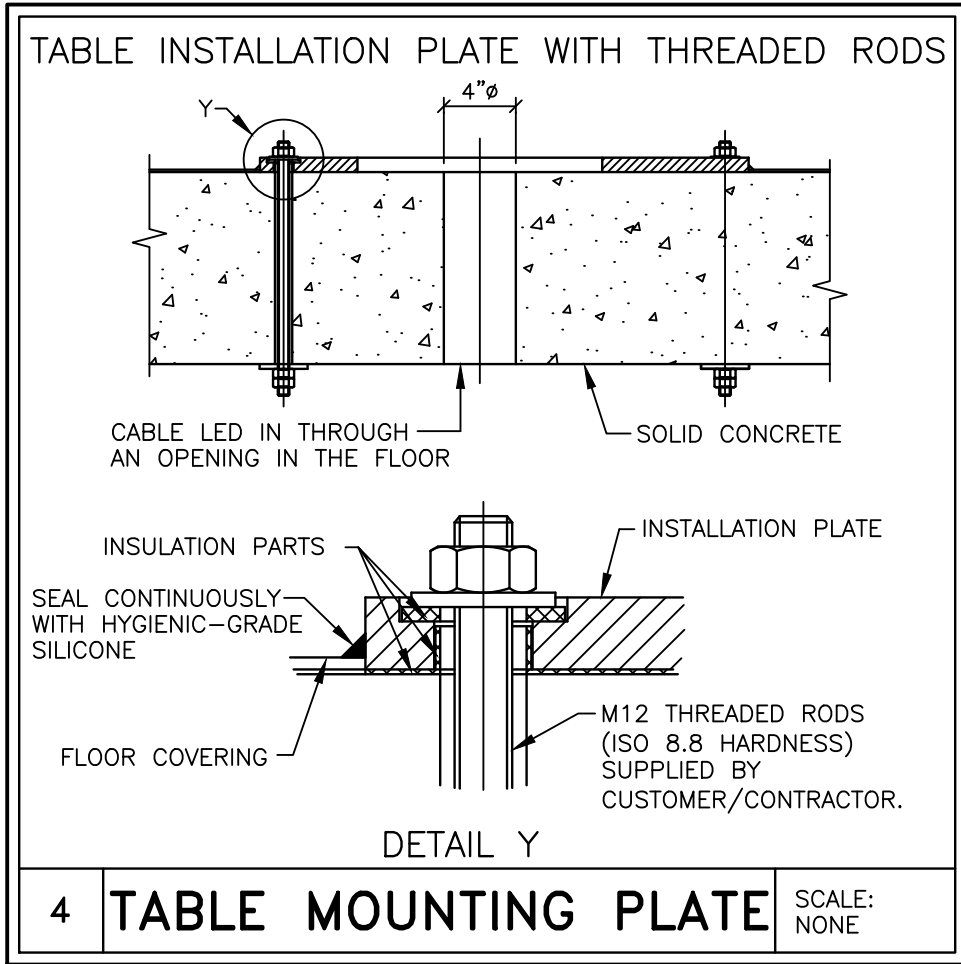
8 FT. - 11 IN.

			PROJECT MANAGER: MARK BOONE TEL: (678) 617-6731 EXT: FAX: EMAIL: mark.boone@siemens-healthineers.com		
			SIEMENS		
			HUNTER HOLMES MCQUIRE VAMC		
			1201 BROAD ROCK BLVD. RICHMOND, VA. 232249 ROOM 1D-116 - ARTIS Q.ZEN CEILING		
			PROJECT #:		SHEET:
			1901568		A-102
			SHEET 2 OF 8		DRAWN BY: M. GONZALEZ
			DATE: 08/20/19		
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			SCALE: AS NOTED	REF. # 50225153	



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 ROD, 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 UNISTRUT 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 UNISTRUT.
- 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.
- 10) ALL ANCHORS, SUPPORTS AND BRACES FOR SECURING THE SIEMENS EQUIPMENT ON THE UNDERSIDE OF THE CONCRETE SLAB (WHETHER SUPPLIED BY SIEMENS OR CONTRACTOR) SHALL BE SECURED IN A MANNER TO PREVENT THEM FROM FALLING DURING A DE-INSTALLATION. ALL WORK FOR SECURING THESE MOUNTS SHALL BE BY THE CONTRACTOR.

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.

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CEILING HEIGHT REQUIREMENT

8 FT. - 11 IN.

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SCALE: AS NOTED REF. # 50225153

PROJECT #:
1901568

SHEET:
S-101

DATE: 08/20/19

DRAWN BY: M. GONZALEZ

ELECTRICAL LEGEND			
SYM	SIZE	DESCRIPTION	REMARKS
SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR			
Ⓜ	AS REQUIRED	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
Ⓢ	18" X 8"	BUSHED OPENING IN VERTICAL DUCT "VD1" COVER AT FLOOR LINE.	CABLE INLET
Ⓢ	3"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	C-ROOM CUSTOMER LD INPUTS
Ⓢ	3"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	CONTROL ROOM DISTRIBUTOR
Ⓢ	AS REQUIRED	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.C. TO DESIGN TRANSITION TO SURFACE FLOOR DUCT AS REQUIRED.	CONTROL ROOM UNDER-FLOOR BOX
Ⓢ	AS REQUIRED	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	PULL BOX MOUNTED FLUSH IN FINISHED CEILING (HARD CEILING) WITH REMOVABLE BOTTOM COVER WITH 4" BUSHED OPENING.	DCS
Ⓢ	----	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
Ⓢ	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING IN LOCATION COORDINATED WITH INTERCOM INSTALLATION. PROVIDE REMOVABLE BOTTOM COVER WITH 3/4" BUSHED OPENING.	INTERCOM MIC
Ⓢ	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT A RECOMMENDED HEIGHT OF 6' AFF.	INTERCOM PROCEDURE RM. LOUDSPEAKER
Ⓢ	----	MAIN DISCONNECT PANEL WITH CIRCUIT BREAKER SUPPLIED BY SIEMENS. REFER TO IEC INSTALLATION MANUAL FOR INSTRUCTIONS. SEE "POWER SCHEDULE".	INTEGRATED ELECTRICAL CABINET
Ⓢ	4"	BUSHED OPENING IN HORIZONTAL DUCT "HD2" COVER IN SHOWN LOCATION.	IMAGE SYSTEM
Ⓢ	AS REQUIRED	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.	IMAGE SYSTEM
Ⓢ	4"	BUSHED OPENING IN HORIZONTAL DUCT "HD2" COVER IN SHOWN LOCATION.	LARGE DISPLAY CONTAINER
Ⓢ	AS REQUIRED	ABOVE FINISHED CEILING PULL BOXES FOR CONDUIT TERMINATION INTO VERTICAL DUCT. SEE PLAN FOR LOCATION.	PULL BOXES
Ⓢ	12" TALL	PULL BOX MOUNTED FLUSH IN FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 6" BUSHED OPENING.	C-ARM
Ⓢ	AS REQUIRED	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	SINGLE-GANG RJ45 JACK	UPS REMOTE MONITORING DEVICE
Ⓢ	AS REQUIRED	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	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	PULL BOX MOUNTED ABOVE FINISHED CEILING. CONNECT 6 FOOT LONG FIXTURE WHIP, (EITHER 1/2" OR 3/8" GREENFIELD) WITH 3 NUMBER 13 WIRE TO BOX FOR TERMINATION TO SIEMENS EQUIPMENT AT CEILING LINE.	MAVIG LAMP
Ⓢ	AS REQUIRED	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
Ⓢ	----	CONDUIT LANDING PLATE ON TOP OF UPS CABINET.	EATON 93PM UPS
Ⓢ	3 1/2" X 18"	THIS CEILING DUCT WILL BE USED FOR EXTRA CABLE STORAGE SINCE THE CABLE CABINET WAS REMOVED.	CEILING DUCT
Ⓢ	3 1/2" X 10"	SURFACE MOUNTED FLOOR DUCT. MUST TIE INTO "HD1". SEE PLAN FOR LOCATION.	FLOOR DUCT
Ⓢ	3 1/2" X 10"	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 10"	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 "VD3" AS SHOWN.	HORIZONTAL WALL DUCT
Ⓢ	3 1/2" X 18"	VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX "PB1" (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"	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"	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

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

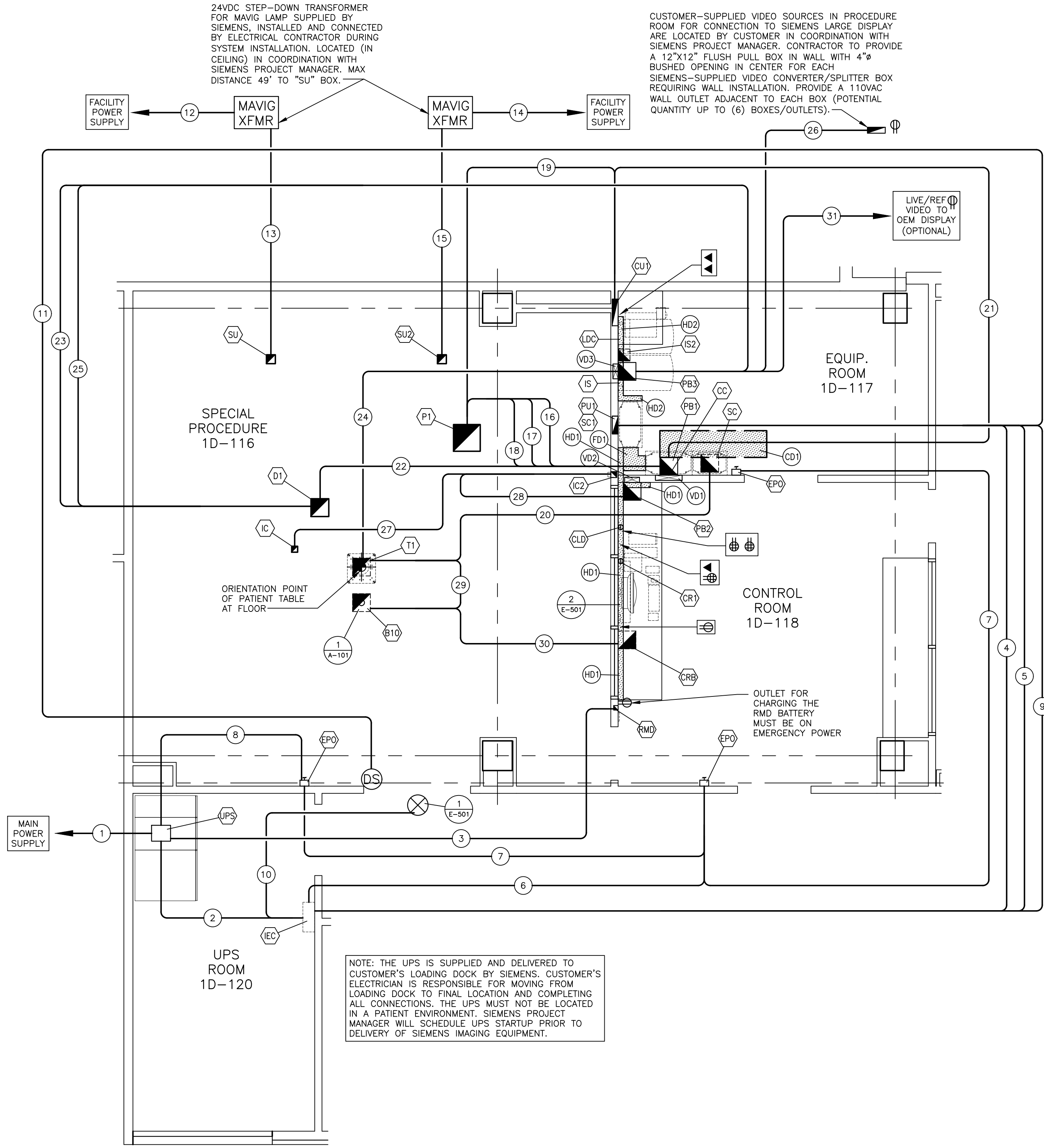
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— THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

ELECTRICAL RACEWAY PLAN

— 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.



NOTE: THE UPS IS SUPPLIED AND DELIVERED TO CUSTOMER'S LOADING DOCK BY SIEMENS. CUSTOMER'S ELECTRICIAN IS RESPONSIBLE FOR MOVING FROM LOADING DOCK TO FINAL LOCATION AND COMPLETING ALL CONNECTIONS. THE UPS MUST NOT BE LOCATED IN A PATIENT ENVIRONMENT. SIEMENS PROJECT MANAGER WILL SCHEDULE UPS STARTUP PRIOR TO DELIVERY OF SIEMENS IMAGING EQUIPMENT.

CEILING HEIGHT REQUIREMENT
8 FT. - 11 IN.

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

ELECTRICAL NOTES

- 1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-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 U.L. 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 CONFIRMATION 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 OPERATION 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. IF 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 SHOWN ON DRAWINGS 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, LIGHTING EQUIPMENT 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 THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. THROAT 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 RACEWAY 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 WITHOUT DAMAGE.
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 CABLES). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL 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 (I.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 PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULL-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.

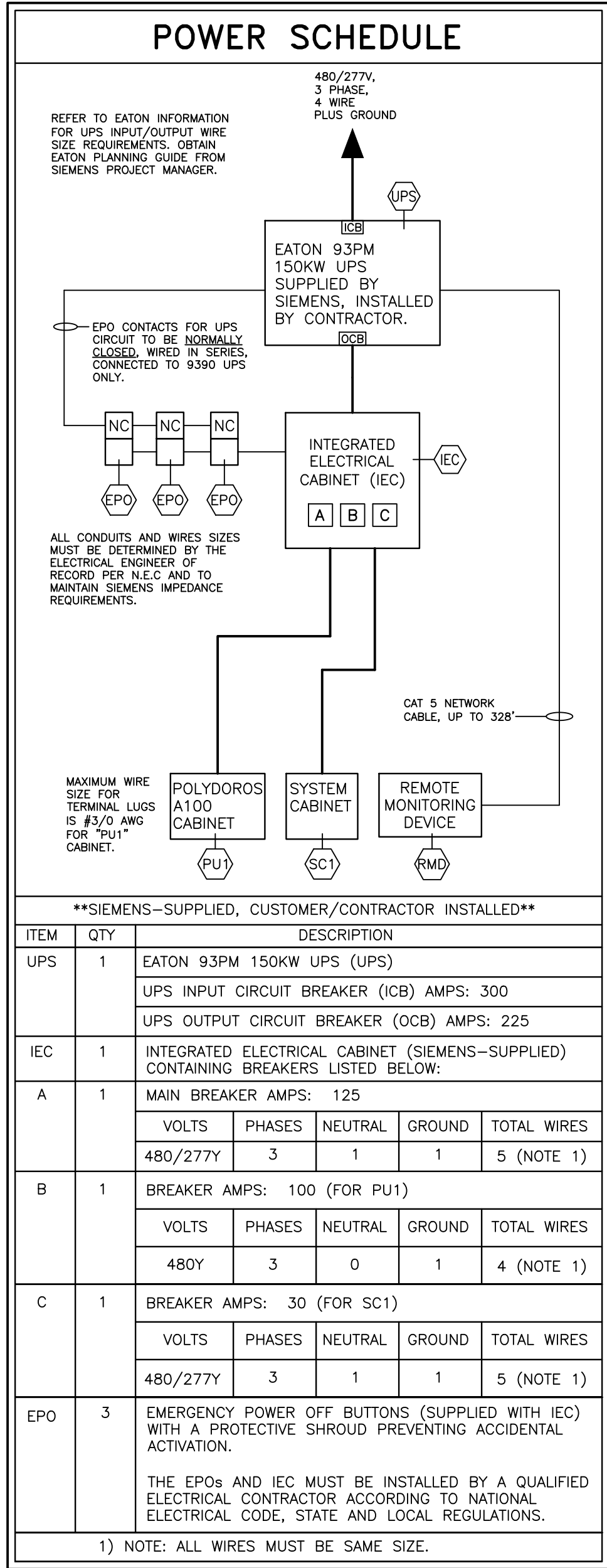
CONDUIT LENGTH CALCULATIONS

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"

NOTE: Q.ZEN/SEE CEILING REV. 21

		PROJECT MANAGER: MARK BOONE TEL: (678) 617-6731 EXT: FAX: EMAIL: mark.boone@siemens-healthineers.com	
		SIEMENS	
		HUNTER HOLMES MCQUIRE VAMC	
		1201 BROAD ROCK BLVD. RICHMOND, VA. 232249 ROOM 1D-116 - ARTIS Q.ZEN CEILING	
		THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #: 1901568
		ALL RIGHTS ARE RESERVED.	SHEET: E-101
		SCALE: AS NOTED REF. # 00225153	SHEET 5 OF 7 DRAWN BY: M. GONZALEZ DATE: 08/20/19

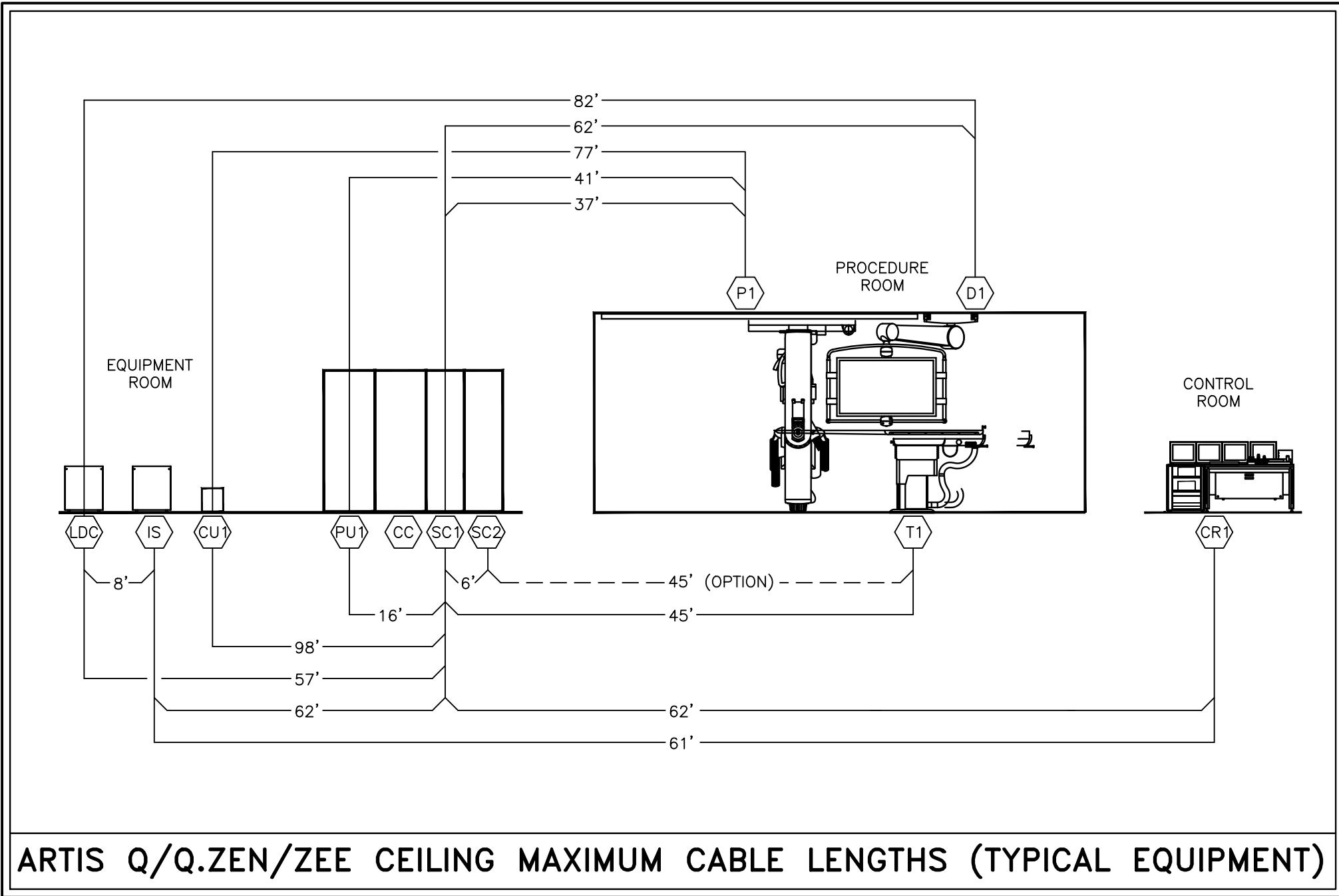
SYM	DATE	DESCRIPTION
△	08/20/19	R-101R(D) VERSION DATED 07/26/19 APPROVED BY CUSTOMER FOR FINALS
-ISSUE BLOCK-		



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

LINE IMPEDANCE ≤ 120 (m Ω)

POWER QUALITY PARAMETERS

MAXIMUM LINE VOLTAGE VARIATION	$\pm 10\%$ OF SYSTEM VOLTAGE
PHASE IMBALANCE:	2%
FREQUENCY VARIATION:	± 1 HZ

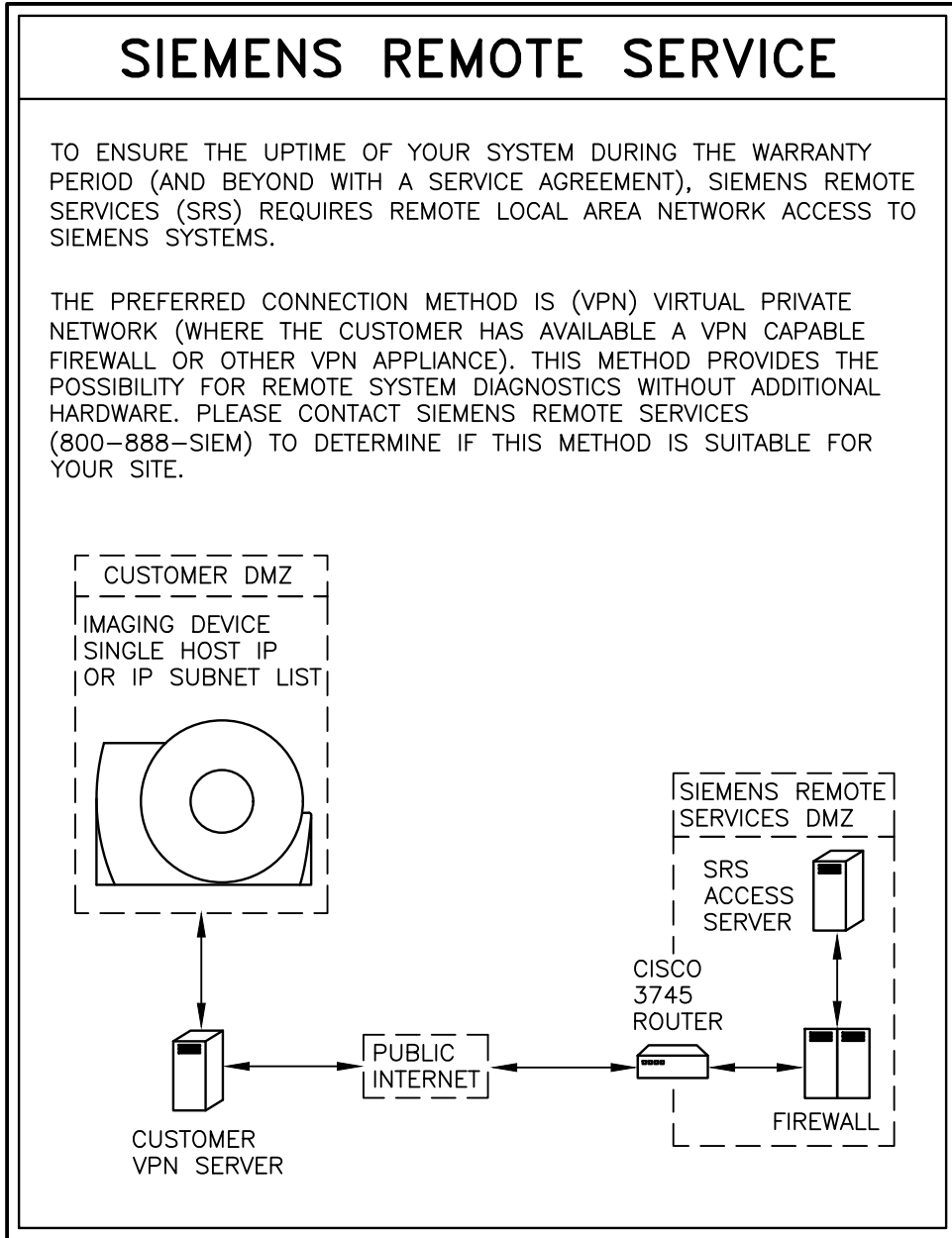
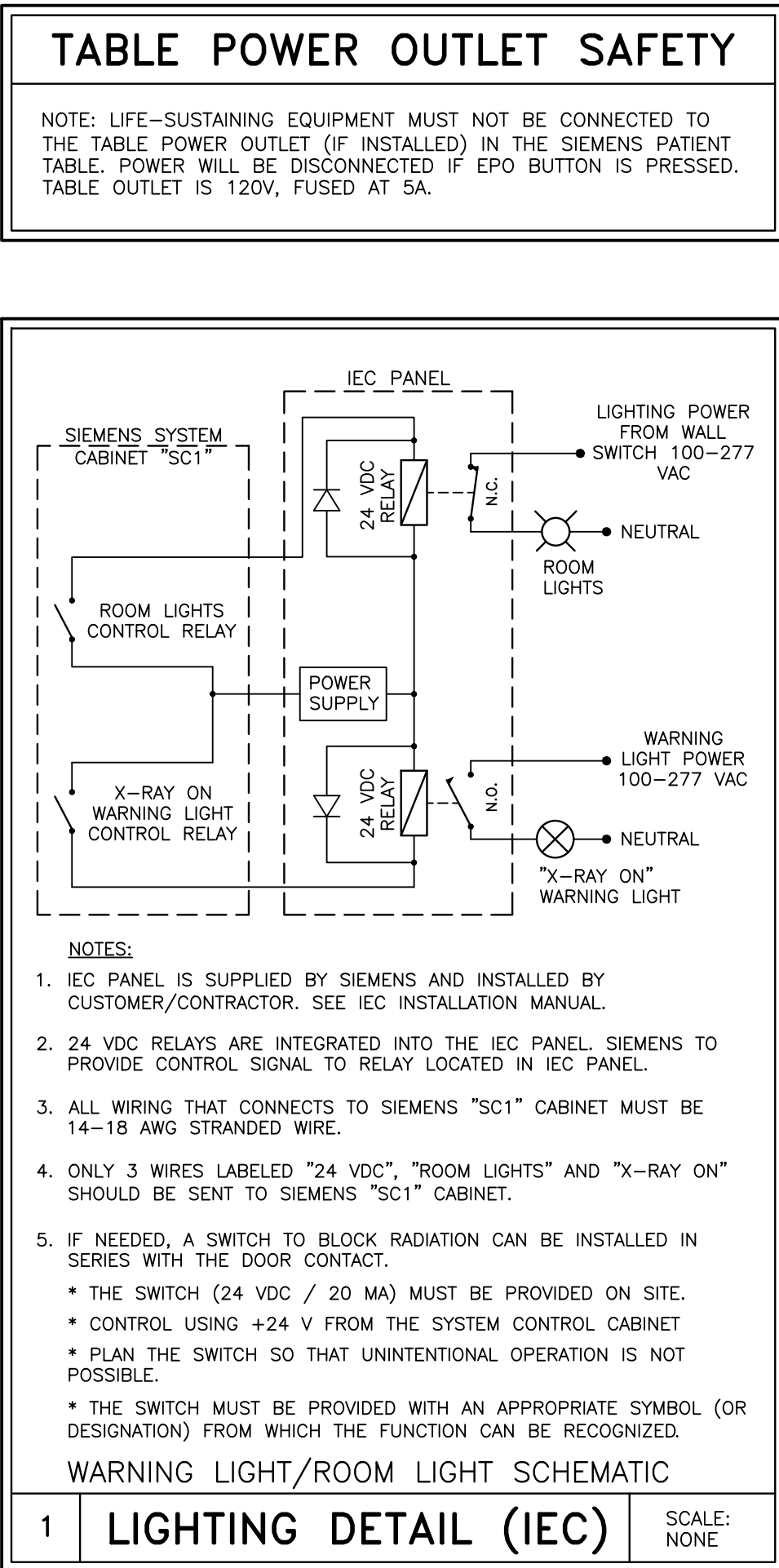
POWER SUPPLY NOTES:

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

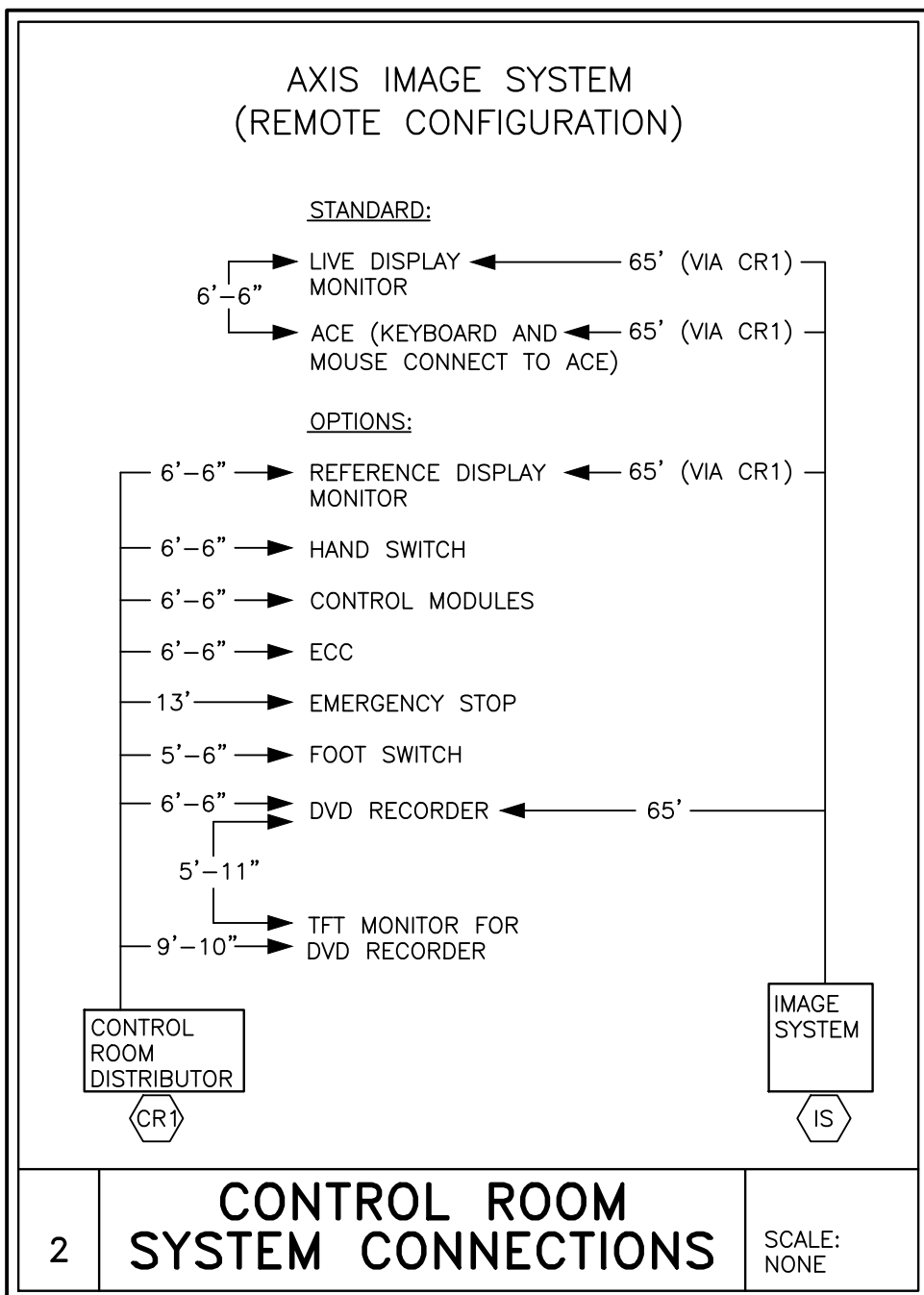
EQUIPMENT GROUND CONDUCTOR TO COMPLY WITH THE FOLLOWING:

- 1) SIZE GROUNDING WIRE TO SIEMENS EQUIPMENT PER POWER SCHEDULE REQUIREMENTS.
- 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 ≤ 500 mA DURING OPERATION OF THE IMAGING EQUIPMENT.



NETWORK REQUIREMENT

A GIGABIT NETWORK IS REQUIRED FOR ADEQUATE IMAGE DATA TRANSFER SPEED BETWEEN THE IMAGER AND 3D RECONSTRUCTION WORKSTATION. WORKFLOW AND CLINICAL NEEDS DEMAND 3D IMAGES BE AVAILABLE FOR REVIEW BY CLINICAL STAFF IMMEDIATELY UPON ACQUISITION.



CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
PANEL	1	UPS	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
UPS	2	IEC	ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND	SEE "POWER SCHEDULE"
RMD	3	UPS	CAT 5 NETWORK CABLE, UP TO 328'	SEE "POWER SCHEDULE"
IEC	4	PU1	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
IEC	5	SC1	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
IEC	6	EPO	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
EPO	7	EPO	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
EPO	8	UPS	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
SC1	9	IEC	ELECTRICAL CONTRACTOR TO SIZE	SEE "LIGHTING DETAIL" SHEET E-501
IEC	10	WL	ELECTRICAL CONTRACTOR TO SIZE	SEE "LIGHTING DETAIL" SHEET E-501
SC1	11	DS	24V SIGNAL, 2#14-18 AWG	DOOR SWITCH
PANEL	12	MAVIG XFMR	120V / 16A POWER, 2#13, PLUS GROUND	MAVIG LAMP
MAVIG XFMR	13	SU	2#13 (+/-), PLUS GROUND	MAXIMUM LENGTH 49'
PANEL	14	MAVIG XFMR	120V / 16A POWER, 2#13, PLUS GROUND	MAVIG LAMP
MAVIG XFMR	15	SU2	2#13 (+/-), PLUS GROUND	MAXIMUM LENGTH 49'

SIEMENS SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
P1	16, PB1, VD1, FD1	PU1	P1 LEFT SIDE	MAXIMUM LENGTH 41'
P1	17, PB1, VD1, FD1	PU1	(2) HIGH VOLTAGE CABLES P1 LEFT SIDE	MAXIMUM LENGTH 41'
P1	18, PB1, VD1	SC1	P1 LEFT SIDE	MAXIMUM LENGTH 37'
P1	19	CU1	FOR LIQUID COOLING HOSES (P1 LEFT SIDE)	MAXIMUM LENGTH 77'
SC1	FD2, HD1	CR1	FOR CONTROL ROOM OPTIONS (CONTROL MODULES, FOOT SWITCH, DISPLAY, ECC)	MAXIMUM LENGTH 62'
SC2	SC, 20	T1	ONLY WITH OR TABLE	MAXIMUM LENGTH 45'
SC1	---	SC2	ONLY WITH OR TABLE	MAXIMUM LENGTH 6'
SC1	VD1, PB1, 21	CU1	MAXIMUM LENGTH 98'	
SC1	BETWEEN CABINETS	PU1	MAXIMUM LENGTH 16'	
SC1	FD1, HD2	IS	62' CABLES SELECTABLE ON FACTORY CHECKLIST	MAXIMUM LENGTH 28'
SC1	VD1, PB1, 22	D1	USE WITH ANY DCS	MAXIMUM LENGTH 62'
IS	HD2, FD1, HD1	CR1	MAXIMUM LENGTH 61'	
IS	HD2, FD1, HD1	CR1	MAXIMUM LENGTH 61'	
LDC	HD2, VD3, PB3, 23	D1	DCS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 79'
LDC	HD2, FD1	SC1	DCS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 54'
LDC	HD2	IS	DCS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 8'
T1	24, IS2, HD2	LDC	VGA LD INPUT TO TABLE	MAXIMUM LENGTH 118'
IS	HD2, VD3, PB3, 25	D1	DCS LARGE DISPLAY (LD ADDITIONAL DISPLAY)	MAXIMUM LENGTH 84'
LDC	HD2, FD1, HD1	CLD	CUSTOMER LD INPUTS IN CONTROL ROOM	MAXIMUM LENGTH 118'
LDC	HD2, VD3, PB3, 26	CUSTOMER SOURCES	CUSTOMER LD INPUTS IN PROCEDURE ROOM	MAXIMUM LENGTH 118'
CR1	HD1, VD2, PB2, 27	IC	INTERCOM PROCEDURE ROOM MICROPHONE	MAXIMUM LENGTH 82'
CR1	HD1, VD2, PB2, 28	IC2	INTERCOM PROCEDURE ROOM LOUDSPEAKER	MAXIMUM LENGTH 82'
T1	29	B10		
CRB	30	B10	CUSTOMER PATIENT MONITORING, ETC.	
IS	HD2, VD3, PB3, 31	CUSTOMER MONITOR	LIVE+REF VIDEO INTERFACE TO OEM (OPTION)	MAXIMUM LENGTH 110'

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SIEMENS

HUNTER HOLMES MCQUIRE VAMC

1201 BROAD ROCK BLVD. RICHMOND, VA. 23249
ROOM ID-116 - ARTIS Q.ZEN CEILING

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

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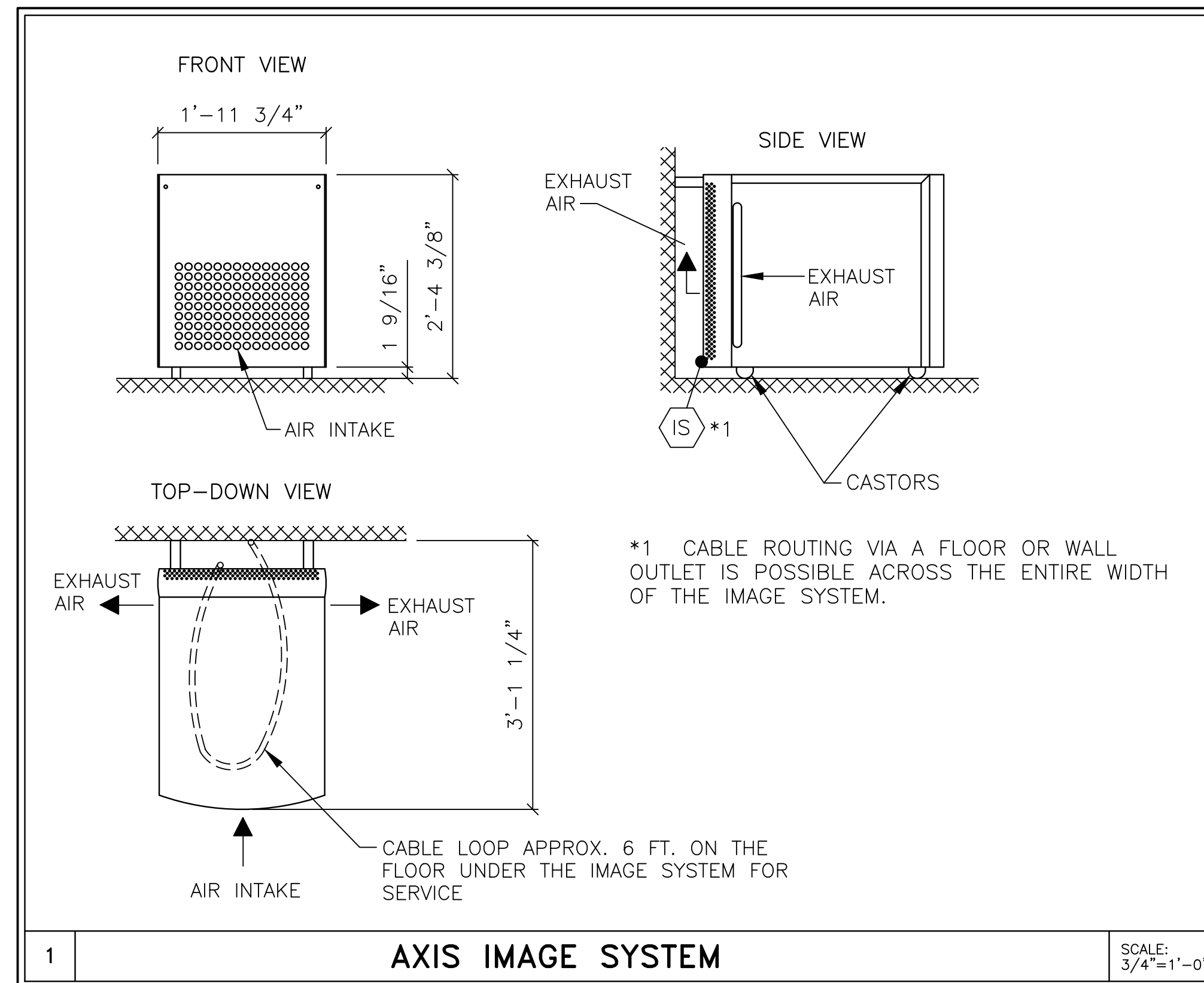
SCALE: AS NOTED REF. # 50225153

PROJECT #: **1901568**

SHEET: **E-501**

DATE: 08/20/19

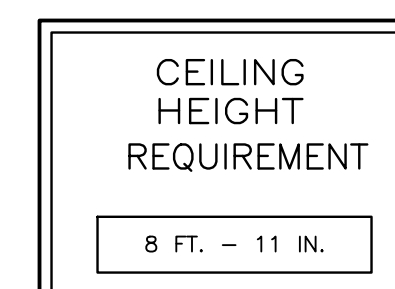
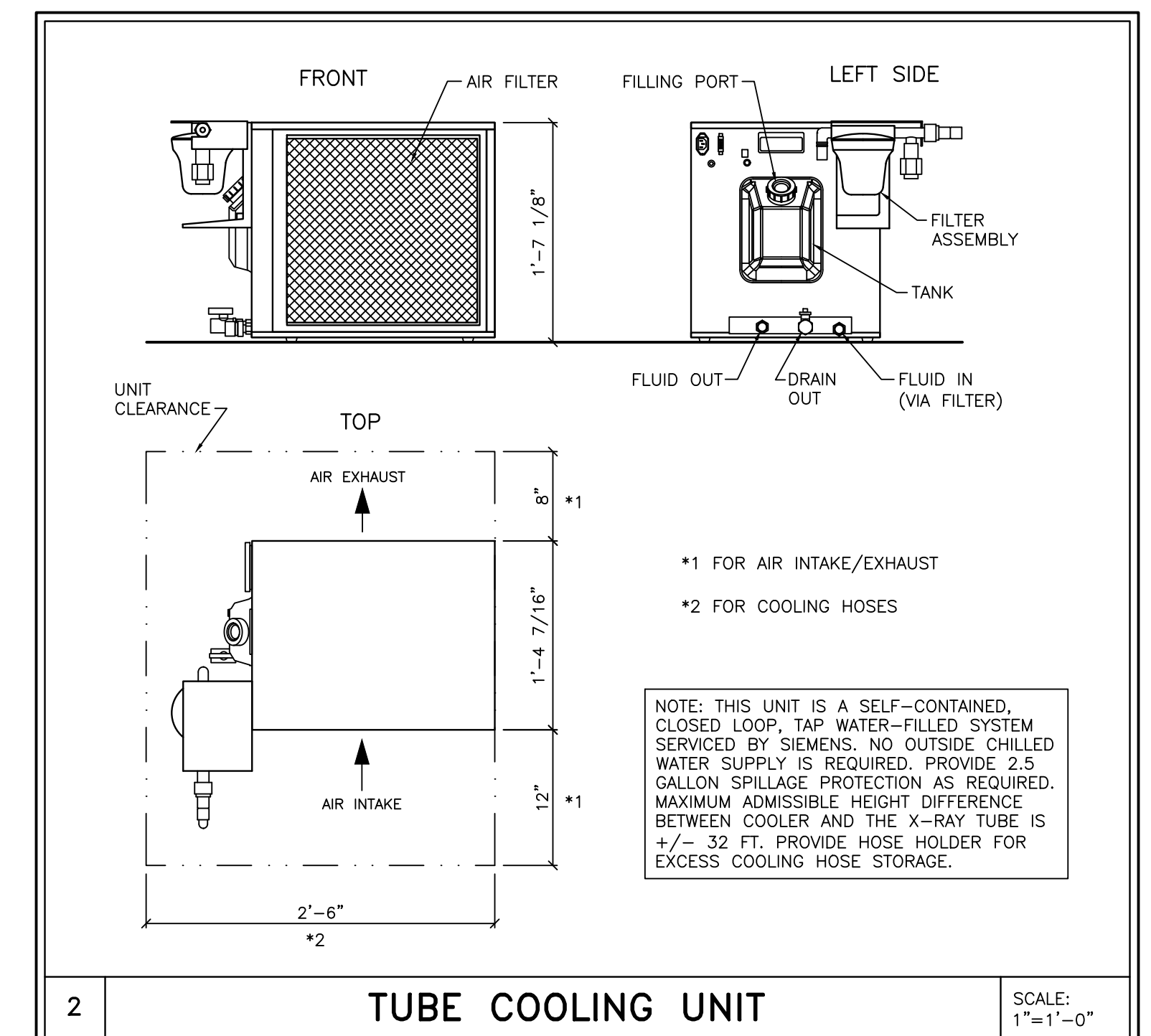
DRAWN BY: M. GONZALEZ



HEAT LOADS

FOR BTU'S OF SEIMENS 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



ATTENTION:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

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				HUNTER HOLMES MCQUIRE VAMC 1201 BROAD ROCK BLVD. RICHMOND, VA. 232249 ROOM ID-116 — ARTIS Q.ZEN CEILING			
				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.		PROJECT #: <div style="font-size: 2em; font-weight: bold;">1901568</div>	
						SHEET: <div style="font-size: 4em; font-weight: bold;">M-501</div>	
<div style="border: 1px solid black; padding: 2px;"> 08/20/19 </div>		R-101R(D) VERSION DATED 07/26/19 APPROVED BY CUSTOMER FOR FINALS		SHEET 8 OF 8		DRAWN BY: M. GONZALEZ	
SYM DATE DESCRIPTION				DATE: 08/20/19			
—ISSUE BLOCK—		SCALE: AS NOTED		REF. # 30225153			