

# ARTIS Q/Q.ZEN/ZEE BIPLANE CARDIO

# TYPICAL DRAWING / ARTIS Q/Q.ZEN/ZEE BIPLANE CARDIO

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## Project Contacts:

**Siemens**

### Artis Q/Q.zen/Zee Biplane Cardio

Planner  
Eric Sandifer

Project #: 08002

**SIEMENS**  
**SIEMENS MEDICAL SOLUTIONS**

51 Valley Stream Parkway  
Malvern, PA 19355  
[www.usa.siemens.com/medical](http://www.usa.siemens.com/medical)

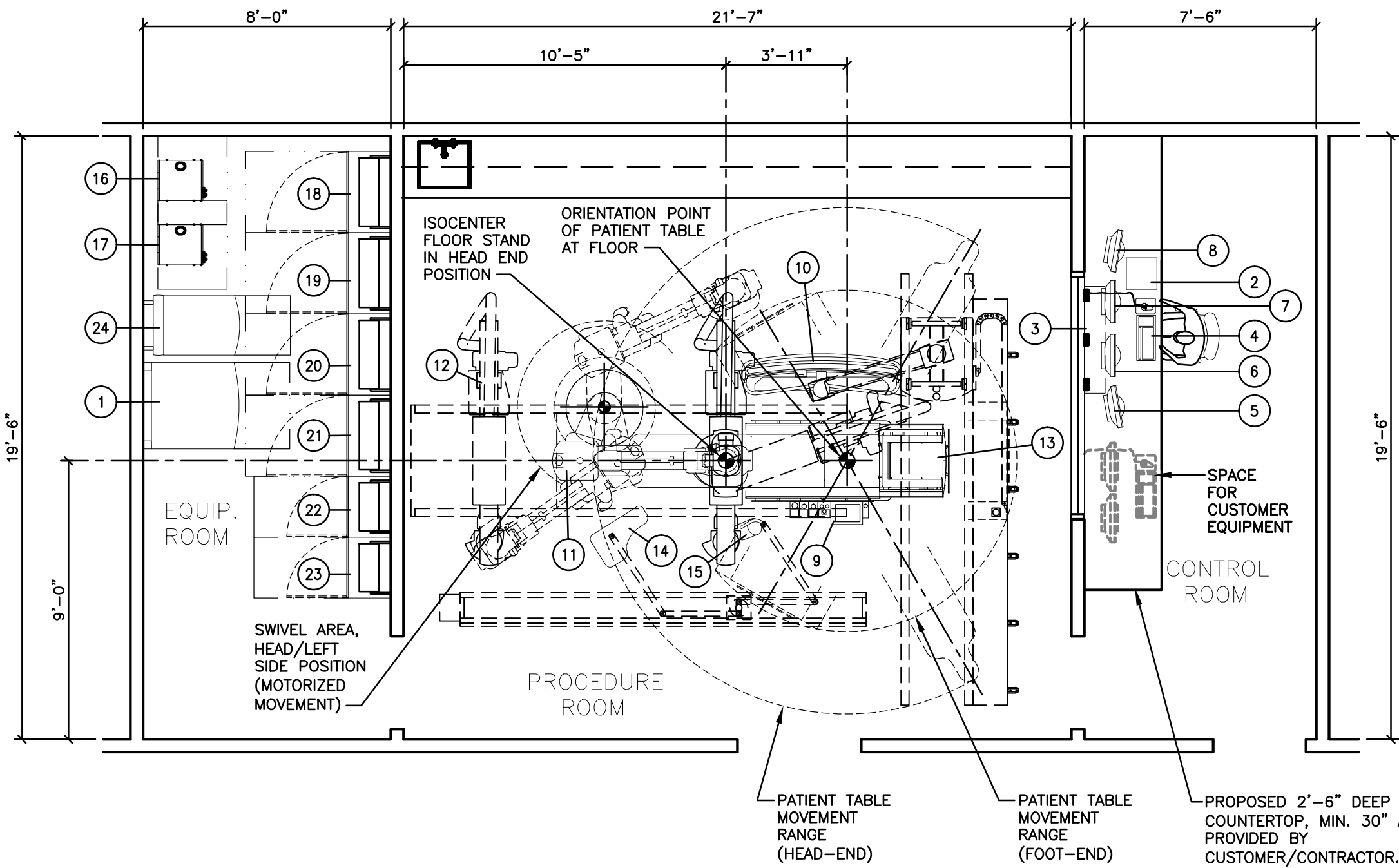
SIEMENS

Issue #: 0  
Date: 04/08/13

TYPICAL DRAWING / ARTIS Q/Q,ZENZEE BI PLANE CARDIO

ARTIS Q/Q.ZEN/ZEE BIPLANE CARDIO

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

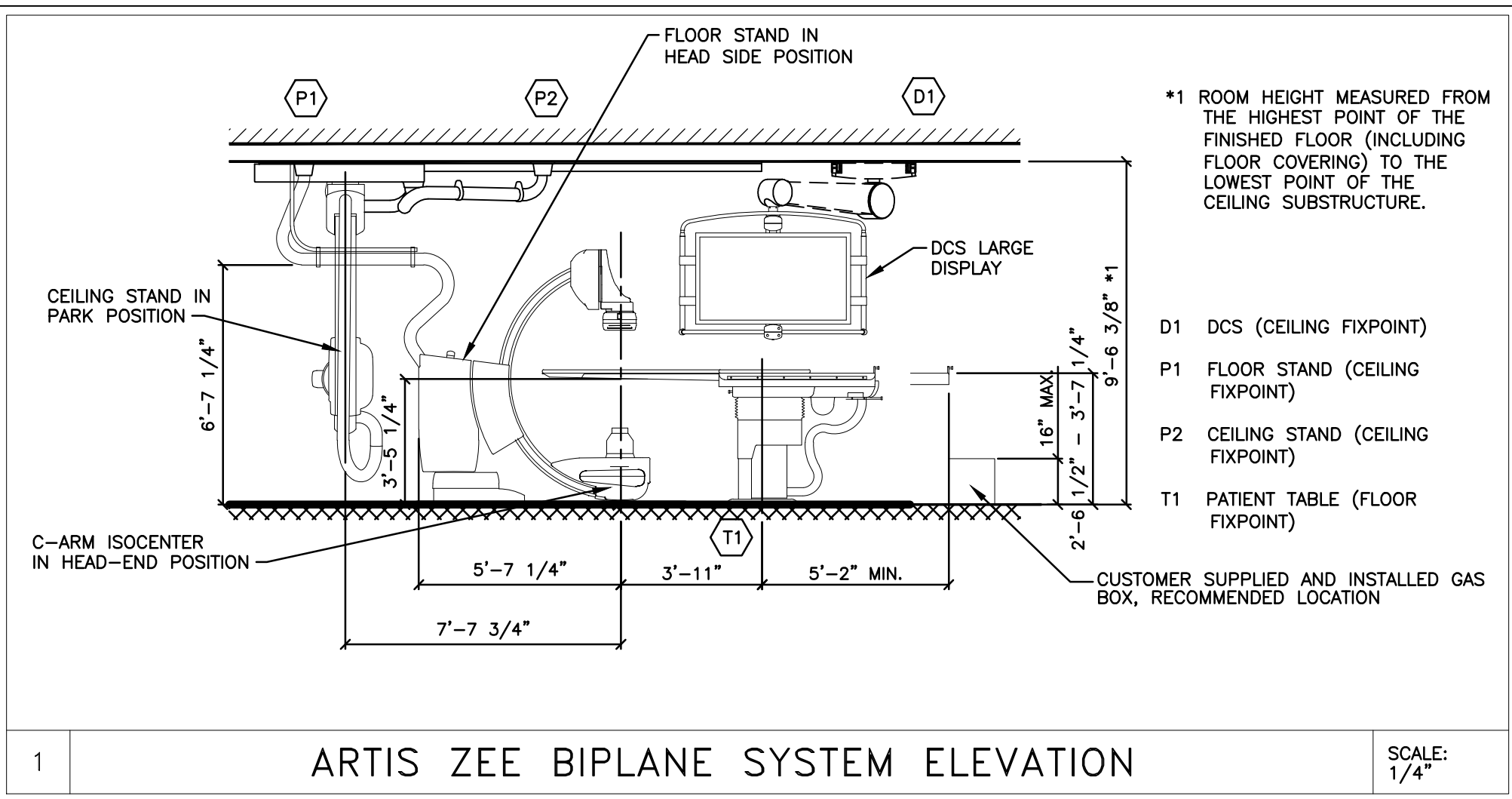


## ARCHITECTURAL EQUIPMENT PLAN

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

### ROOM MEASUREMENTS

ALL ROOM MEASUREMENTS AND ROOM DETAIL SPECIFICATIONS MUST BE VERIFIED ON SITE PRIOR TO BEGINNING ANY CONSTRUCTION WORK.



### ENVIRONMENTAL/POWER AUDIT

AS AN INDICATION OF OUR COMMITMENT TO QUALITY, SIEMENS MAY, AT NO COST TO YOUR FACILITY, CHECK THE OPERATING ENVIRONMENT AFTER SYSTEM TURNOVER TO DETERMINE IF THE REQUIREMENTS FOR TEMPERATURE, HUMIDITY, POWER, AND GROUNDING ARE MET AS PER SIEMENS' PUBLISHED SPECIFICATIONS. SIEMENS WILL GENERATE A WRITTEN REPORT DETAILING THE ENVIRONMENTAL AND ELECTRICAL CONDITION OF THE SITE AFTER TURNOVER AND WILL SHARE THE REPORT WITH YOU. IN THE EVENT WE IDENTIFY ANY ENVIRONMENTAL/POWER DEFICIENCIES AT THE SITE, YOUR FACILITY WILL BE REQUESTED TO CORRECT DEFICIENCIES WITHIN THIRTY (30) DAYS. SHOULD ANY CORRECTIVE ACTIONS BE NECESSARY, AND UPON REQUEST, SIEMENS WILL PROVIDE GUIDANCE IN AN EFFORT TO FACILITATE RESOLUTION. PLEASE BE ADVISED THAT AFTER 30 DAYS NOTICE ANY REPAIR OR MAINTENANCE SERVICES NECESSITATED BY SEVERE DEFICIENCIES WILL FALL OUTSIDE YOUR WARRANTY COVERAGE.

CEILING HEIGHT REQUIREMENT

9 FT. - 6 3/8 IN.

### EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	AXIS IMAGE SYSTEM	(E)	441	6,483	30 7/8	37 3/8	28 3/8	MTD. ON CASTERS
2	ACE (ARCHIVE CONTROL EXTENSION)	(-)	13	N/A	12 1/4	11 3/4	4	MTD. ON CONTROL COUNTER
3	CONTROL ROOM DISTRIBUTOR	(D)	64	342	41 1/2	8 1/4	16 1/8	MTD. ON WALL
4	KEYBOARD	(-)	2.2	342	17 1/2	6 1/8	2 1/8	MTD. UNDER COUNTER OR ON CONSOLE
5	19" MONOCHROME LIVE DISPLAY (FLOOR PLANE)	(-)	15	256	16 1/2	8 1/4	13 1/2	ON COUNTER OR CONSOLE
6	19" MONOCHROME LIVE DISPLAY (CEILING PLANE)	(-)	15	256	16 1/2	8 1/4	13 1/2	ON COUNTER OR CONSOLE
7	19" MONOCHROME REFERENCE DISPLAY (FLOOR PLANE) (OPTION)	(-)	15	256	16 1/2	8 1/4	13 1/2	ON COUNTER OR CONSOLE
8	19" MONOCHROME REFERENCE DISPLAY (CEILING PLANE) (OPTION)	(-)	15	256	16 1/2	8 1/4	13 1/2	ON COUNTER OR CONSOLE
9	TABLE CONTROL MODULES	(-)	16	---	20	8 3/4	3 1/2	ON TABLE OR TROLLEY
10	DCS LARGE DISPLAY (OPTION)	(D)	407	1,706	167	45 3/8	50 3/4	CEILING SUSPENDED
11	ARTIS ZEE BIPLANE CARDIO FLOOR STAND W/ MOUNTING PLATE	(P)	1,466	683	---	---	---	C-ARM FLOOR MOUNTED
12	ARTIS ZEE BIPLANE CARDIO CEILING STAND W/ LONGITUDINAL RAILS	(P)	1,248	683	---	---	---	C-ARM CEILING MOUNTED
13	PATIENT TABLE (OR)	(T)	1,169	683	---	---	---	TABLE FLOOR MOUNTED
14	UPPER BODY RADIATION SHIELD 4 M TRACK (OPTION)	(-)	196	---	---	---	---	TRACK MOUNTED
15	MAVIG R96 O.R. LAMP (OPTION)	(-)	48	---	---	---	---	---
16	KLUVER COOLING UNIT (PLANE A)	(U)	93	13,649	18 3/4	15 1/2	18 3/4	FLOOR OR SHELF MOUNTED
17	KLUVER COOLING UNIT (PLANE B)	(U)	93	13,649	18 3/4	15 1/2	18 3/4	FLOOR OR SHELF MOUNTED
18	POLYDOROS A100 (POWER UNIT 1)	(P)	662	3,413	31 1/2	17 1/8	87	FLOOR MOUNTED
19	POLYDOROS A100 (POWER UNIT 2)	(P)	662	3,413	31 1/2	17 1/8	87	FLOOR MOUNTED
20	CABLE CABINET	(C)	265	---	31 1/2	17 1/8	87	FLOOR MOUNTED
21	SYSTEM CONTROL CABINET	(S)	596	5,459	31 1/2	17 1/8	87	FLOOR MOUNTED
22	SYSTEM CONTROL CABINET 2	(S)	364	4,094	23 1/2	17 1/8	87	FLOOR MOUNTED
23	SYSTEM CONTROL CABINET (OR TABLE ONLY)	(S)	276	683	23 1/2	17 1/8	87	FLOOR MOUNTED OR TABLE ONLY
24	LARGE DISPLAY CONTAINER FOR DCS LARGE DISPLAY (OPTION)	(D)	253	1,535	23	37 1/2	28 3/8	MTD. ON CASTERS

### 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)	COLOR 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	

### TRANSPORT/STORAGE FLAT PANEL DETECTOR

IN SYSTEMS WITH FLAT PANEL DETECTORS, THE DETECTOR IS REMOVED FROM THE STAND FOR TRANSPORT TO THE CUSTOMER. THE LIMITED TRANSPORT AND STORAGE CONDITIONS APPLY FOR THE DETECTOR.

FLAT PANEL DETECTOR:

TEMPERATURE RANGE: 14° F TO 131° F  
RELATIVE HUMIDITY: 20% TO 95% NON CONDENSING  
AIR PRESSURE: 700 hPa TO 1060 hPa

### TRANSPORTING REQUIREMENTS

LARGEST CRATE WITH PACKING-WEIGHT: 10'-0"L x 4'-2"W x 7'-1"H, 2,458 LBS.  
LARGEST INDIVIDUAL PIECE WITH CARRIAGE (MIN. DOOR OPENING) -WEIGHT: 9'-5"L x 3'-6"W x 6'-5"H, 1,984 LBS.

### 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.

### ARCHITECTURAL NOTES

- 1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS MEDICAL SOLUTIONS, INC. (SMS HEREAFTER) ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SMS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SMS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE LOCATION SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SMS. SMS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH 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 SMS PROJECT MANAGER.
- 2) SMS IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SMS 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.
- 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 SMS 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 TAKEN 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) SMS SHALL BE RESPONSIBLE FOR SMS EQUIPMENT INSTALLATION AND CALIBRATION, CONNECTION AND INSTALLATION OF SMS PROVIDED CABLES, AND CONNECTION OF CONTRACTOR PROVIDED WIRES TO SMS 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 JOB SUPERVISION TO BE PROVIDED BY SMS. 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 VERIFY WITH SMS PROJECT MANAGER FINAL INSTALLATION DRAWINGS THE LOCATIONS AND TRAVEL OF ALL ANCHORAGE EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E. O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, ORT 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 SMS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

### SITE READINESS GUIDELINES

THE FOLLOWING GENERAL CONDITIONS ARE NECESSARY TO HAVE THE STATUS OF "READY SITE":

- 1) PROPER POWER AVAILABLE AT SIEMENS EQUIPMENT POWER CABINET LOCATION AND ALL POWER OUTLETS FUNCTIONING.
- 2) AIR CONDITIONING/HUMIDIFICATION SYSTEMS COMPLETE, TESTED, AND FUNCTIONING PROPERLY ACCORDING TO SIEMENS SPECIFICATIONS.
- 3) PROPER LIGHTING INSTALLED AND FUNCTIONING.
- 4) PLUMBING COMPLETE EXCEPT FOR ANY FINAL CONNECTIONS TO SIEMENS EQUIPMENT.
- 5) ALL CABLE TRAYS/DUCTS/CONDUITS CORRECTLY SIZED, LOCATED, AND INSTALLED ACCORDING TO THE SIEMENS DRAWINGS.
- 6) ALL REINFORCEMENT PLATES/UNISTRUT INSTALLED AS REQUIRED.
- 7) ROOM FOR EQUIPMENT INSTALLATION AND IMMEDIATE VICINITY IS DUST-FREE AND IS TO REMAIN SO FOR THE DURATION OF THE INSTALLATION.
- 8) A SECURE AREA (APPROXIMATELY 10' X 10') IS AVAILABLE AT EQUIPMENT DELIVERY FOR PARTS AND INSTALLATION TOOLS.
- 9) CUSTOMER SUPPLIED CAMERAS AND PROCESSORS INSTALLED.
- 10) CUSTOMER APPROVAL FOR SIEMENS REMOTE SERVICES (SRS) CONNECTION, AND CUSTOMER'S I.T. CONTACT INFORMATION AND IP ADDRESSES ESTABLISHED.
- 11) WALLS TO BE PRIMED AND PAINTED, FLOORS TO BE TILED EXCEPT IN AREAS OF THE EQUIPMENT BASE PLATES. IF THESE CONDITIONS ARE NOT MET, THE SIEMENS PROJECT MANAGER AND THE DESIGNATED SIEMENS INSTALLATION SUPERVISOR SHALL RESCHEDULE THE INSTALLATION START DATE. NOTE: ADDITIONAL COST MAY BE INCURRED BY THE CUSTOMER/CONTRACTOR AND DELIVERY DATES MAY NEED TO BE RESCHEDULED, WHEN THE SIEMENS SITE READINESS GUIDELINES ARE NOT MET.

### RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
ARTIS ZEE BIPLANE CARDIO	AXA4-070.891.01.03.02	02.10
DCS/DISPLAY CEILING SUSPENSION	AXA4-700.891.01.07.02	10.09

ARTIS ZEE BIPLANE CARDIO  
04/08/13

SIEMENS

ARTIS Q / Q.ZEN / ZEE BIPLANE CARDIO

TYPICAL DRAWING / ARTIS Q/Q.ZEN/ZEE BIPLANE CARDIO

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

PROJECT #:

08002

SHEET:

A-101

SHEET 1 OF 7

DRAWN BY: E. SANDIFER

DATE: 04/08/13

CHECKED:

SCALE: AS NOTED

REF. #:

04/08/13 TYPICAL DRAWING

SYMBOL DATE DESCRIPTION

-ISSUE BLOCK-

ATTENTION:

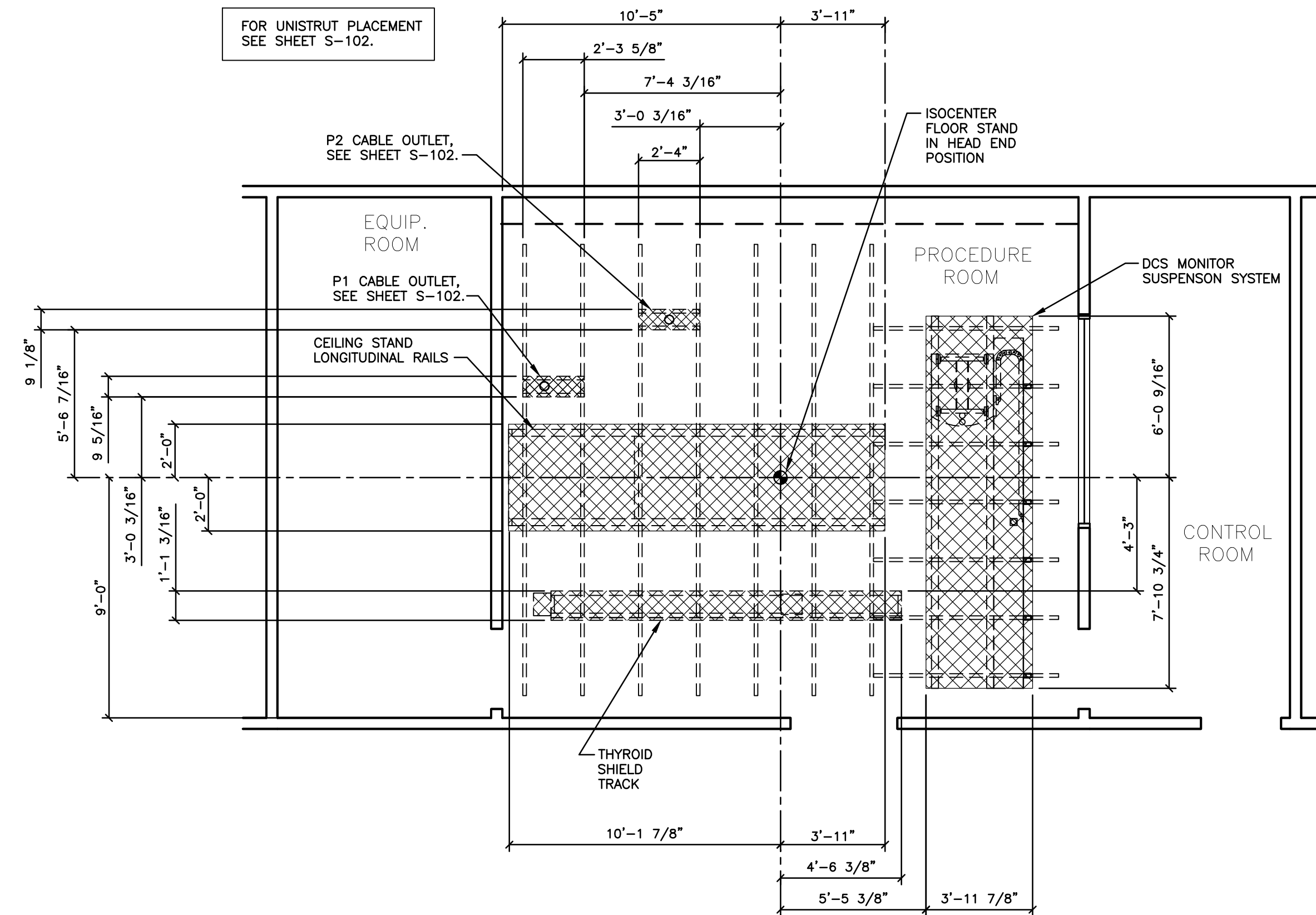
-THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.  
-THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD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

-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.

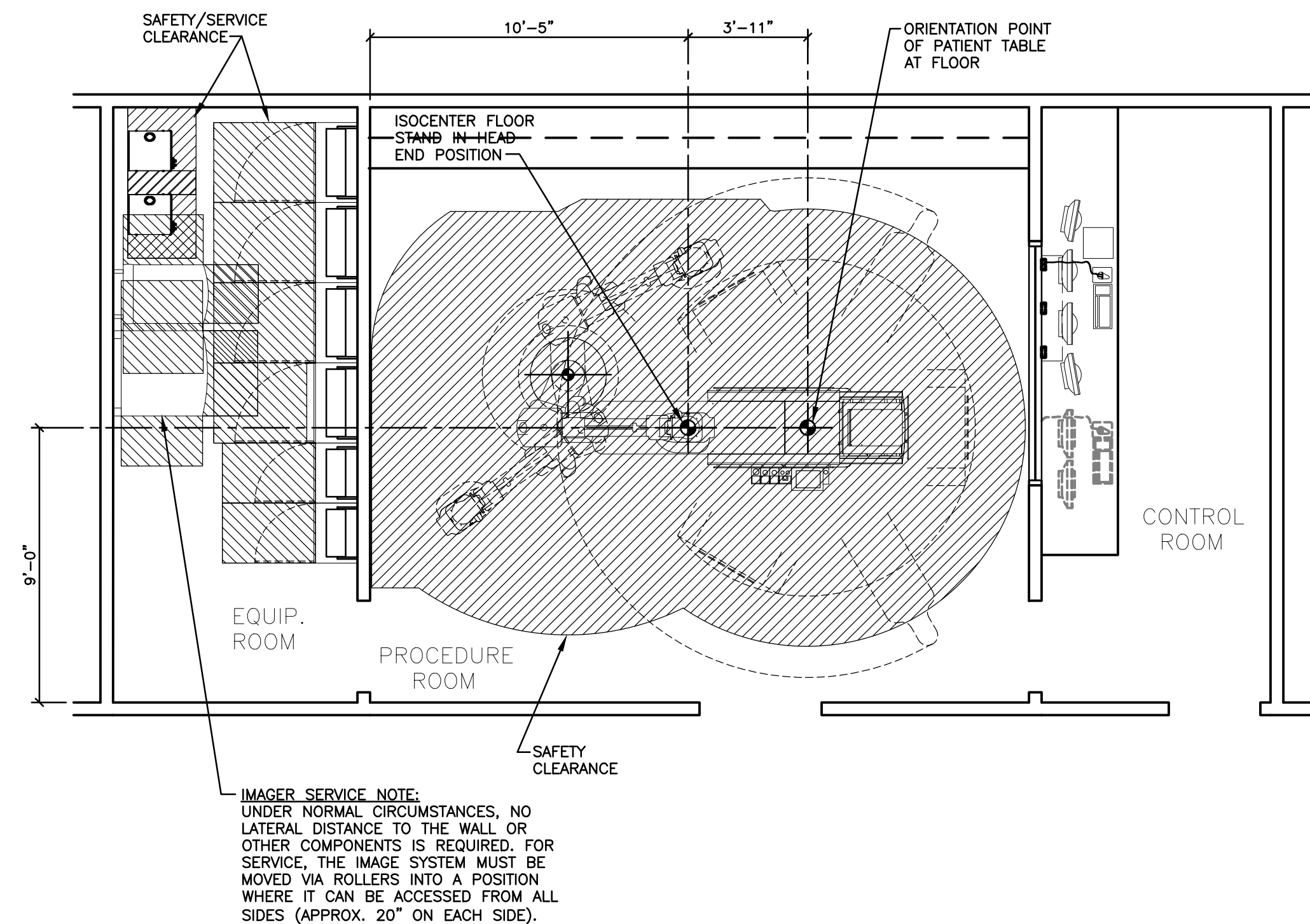
NOTE:  
FOR ALL WEIGHTS AND SIZES OF EQUIPMENT SHOWN ON THIS PLAN  
PLEASE REFER TO THE EQUIPMENT LEGEND ON SHEET A-101.

FOR UNISTRUT PLACEMENT  
SEE SHEET S-102.



REFLECTED CEILING PLAN

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



SAFETY/SERVICE CLEARANCE PLAN

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

ROOM LIGHTING IS THE RESPONSIBILITY OF THE CUSTOMER.  
HOWEVER, SIEMENS OFFERS THE FOLLOWING RECOMMENDATIONS, AS  
A GENERAL GUIDE ONLY, WHEN PLANNING FOR LIGHTING.

- CEILING NOTES

- 
- Diagram illustrating the side view of a control room distributor (CR1) installation. The diagram shows the following components and dimensions:
- ENGINEER OF RECORD SHALL DESIGN THE BACKING PLATE (1/8" GA MIN.) AND THE WALL STRUCTURE.** (Pointing to the backing plate and wall structure)
  - CONTROL COUNTER TO SUPPORT A MINIMUM OF 200 POUNDS TO BE DESIGNED, SUPPLIED, AND INSTALLED BY CUSTOMER/CONTRACTOR.** (Pointing to the control counter)
  - SMS SUPPLIED AND INSTALLED CONTROL ROOM DISTRIBUTOR (CR1).** (Pointing to the distributor unit)
  - FINISHED FLOOR LINE** (Pointing to the floor line)
  - 5/8" THK. DRYWALL** (Pointing to the wall structure)
  - Dimensions:**
    - Vertical dimensions: 2" MIN. (top section), 7 1/2" (middle section), 1'-4" (bottom section), 2'-10" (total height).
    - Horizontal dimensions: 1'-2" (width of the distributor unit), 1'-0" (width of the control counter).

1	TYPICAL CR1 MOUNTING
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SCALE:  
NONE

CEILING  
HEIGHT  
REQUIREMENT

9 FT. - 6 3/8 IN.

			<div>SIEMENS</div> <div>ARTIS Q / Q.ZEN / ZEE BIPLANE CARDIO</div> <div>TYPICAL DRAWING / ARTIS Q/Q.ZEN/ZEE BIPLANE CARDIO</div>			
			<div>THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.</div> <div>ALL RIGHTS ARE RESERVED.</div>	<div>PROJECT #:</div> <div>08002</div>		<div>SHEET:</div> <div>A-102</div>
<div>0</div>	04/08/13	TYPICAL DRAWING		<div>SHEET 2 OF 7</div>		<div>DRAWN BY:</div> <div>E. SANDIFER</div>
SYM	DATE	DESCRIPTION		<div>DATE:</div> <div>04/08/13</div>		<div>CHECKED:</div>
—ISSUE BLOCK—			<div>SCALE:</div> <div>AS NOTED</div>	<div>REF. #:</div>		

**ATTENTION:**

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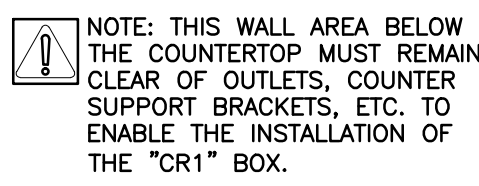
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**CONSTRUCTION OF THE**





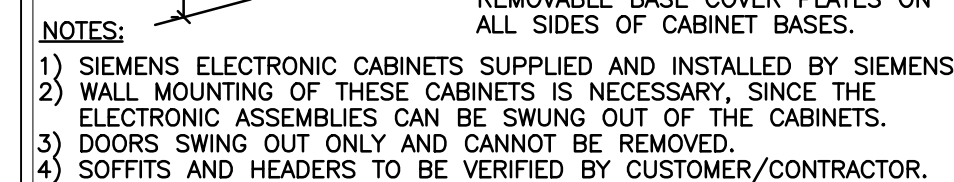
SCALE:  
NONE



SCALE:  
NONE



SCALE:  
NONE



SCALE  
NONE



THE TWO MOUNTING PLATES FOR THE STAND AND 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 BOLTS ARE INCLUDED IN THE SHIPMENT FOR INSTALLING THE MOUNTING PLATES. 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).

SCALE:  
NONE

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

- 2) THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.
- 3) THE STRUCTURAL SUPPORT SYSTEM SHALL BE DESIGNED TO BE FIXED, RIGID AND BRACED FOR SWAY.
- 4) ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER. THE MEMBER TO BE LOCATED AND SET WITH A TRANSIT.
- 5) ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS. THE CONTRACTOR SHALL VERIFY ALL SUPPORT PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL DETAILS. 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.
- 6) WHEREVER 1/4" STRUCTURAL FLOOR PLANS, THERE ARE ON OCCASION MOUNTING FRAMES FURNISHED BY SMS. THESE FRAMES ARE TO BE SET BY THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL DETAILS. THE CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR ALL FRAMES INSTALLED BY HIM TO BE WATER LEVEL AND ANCHORED PROPERLY.
- 7) 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 IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.
- 8) THE LOCATION 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 OR PLATES TO COVER THE UNISTRUT CHANNELS.
- 9) 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 PLAN. THE CONTRACTOR SHALL VERIFY ALL DETAILS. THE STRUCTURAL PLANNING AS SHOWN MUST BE APPROVED BY SM PLANNING DEPARTMENT.
- 10) THE CONTRACTOR OR ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF FLOOR, WALL AND CEILING STRUCTURES IN ACCORDANCE WITH THE WEIGHTS, MOMENTS AND FORCES AS SHOWN ON OUR STRUCTURAL CALCULATIONS. THE CONTRACTOR SHALL VERIFY ALL FORCES AS DETERMINED PER LOCAL GOVERNING BUILDING CODES.

FLOOR STAND

THE PREINSTALLATION PARTS ARE PART OF THE PREINSTALLATION SHIPMENT.

THE PREINSTALLATION KIT CONTAINS THE MOUNTING PLATE WITH  
INSTALLATION HARDWARE, AS WELL AS THE CEILING OUTLET.

THE INSTALLATION GAUGE, PART NO. 65 72 G144E, IS REQUIRED FOR INSTALLATION OF THE FLOOR STAND AND PATIENT TABLE MOUNTING PLATES, THE INSTALLATION GAUGE IS REQUIRED TO INSTALL THE MOUNTING PLATES WITH THE REQUIRED ACCURACY (=SPACING AND ALIGNMENT OF THE MOUNTING PLATES TO EACH OTHER).

## PATIENT TABLE

THE PREINSTALLATION PARTS ARE PART OF THE PREINSTALLATION SHIPMENT.

THE PREINSTALLATION KIT CONTAINS THE MOUNTING PLATE WITH  
INSTALLATION HARDWARE.

## PATIENT TABLE TENSION LOADS

MOUNTING PLATE ON SOLID CONCRETE

FOOT-END LOAD PER INSTALLATION PLATE MOUNTING POINT: MAXIMUM  
TENSILE FORCE 1.012 LBS.

## FLOOR STAND/PATIENT TABLE

THE TWO MOUNTING PLATES FOR THE STAND AND 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 PLATES. 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).

TYPICAL DRAWING / ARTIS Q/Q.ZEN/7FF BIPLANE CARDIO

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

PROJECT #:

08002

SHEET

# S-101

SHEET	OF	DRAWN BY:
3	3	E. SANDIFER

DATE:	CHECKED:
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04/08/13	
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SCALE:

AS NOTED	
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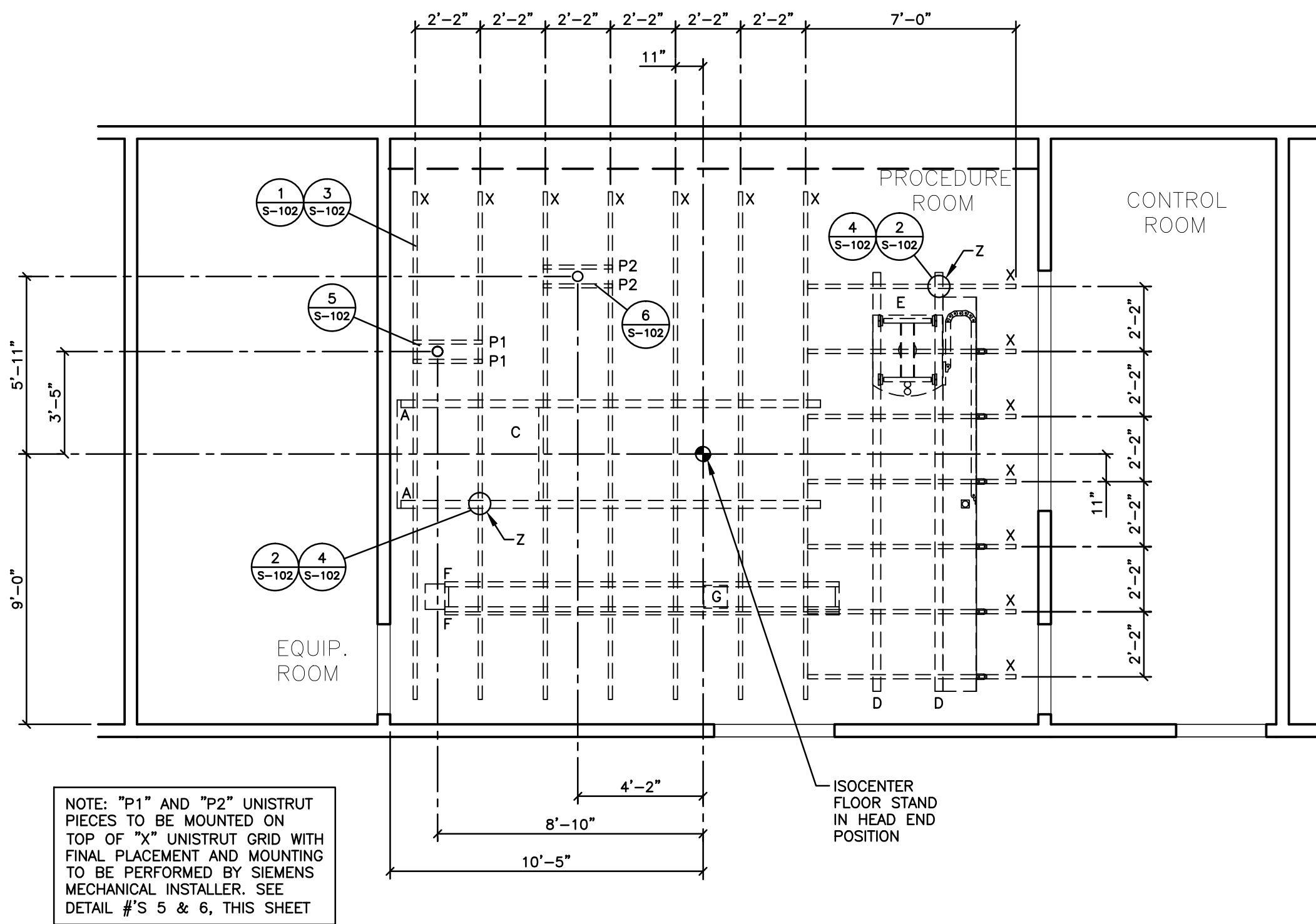
## ATTENTION:

-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.

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

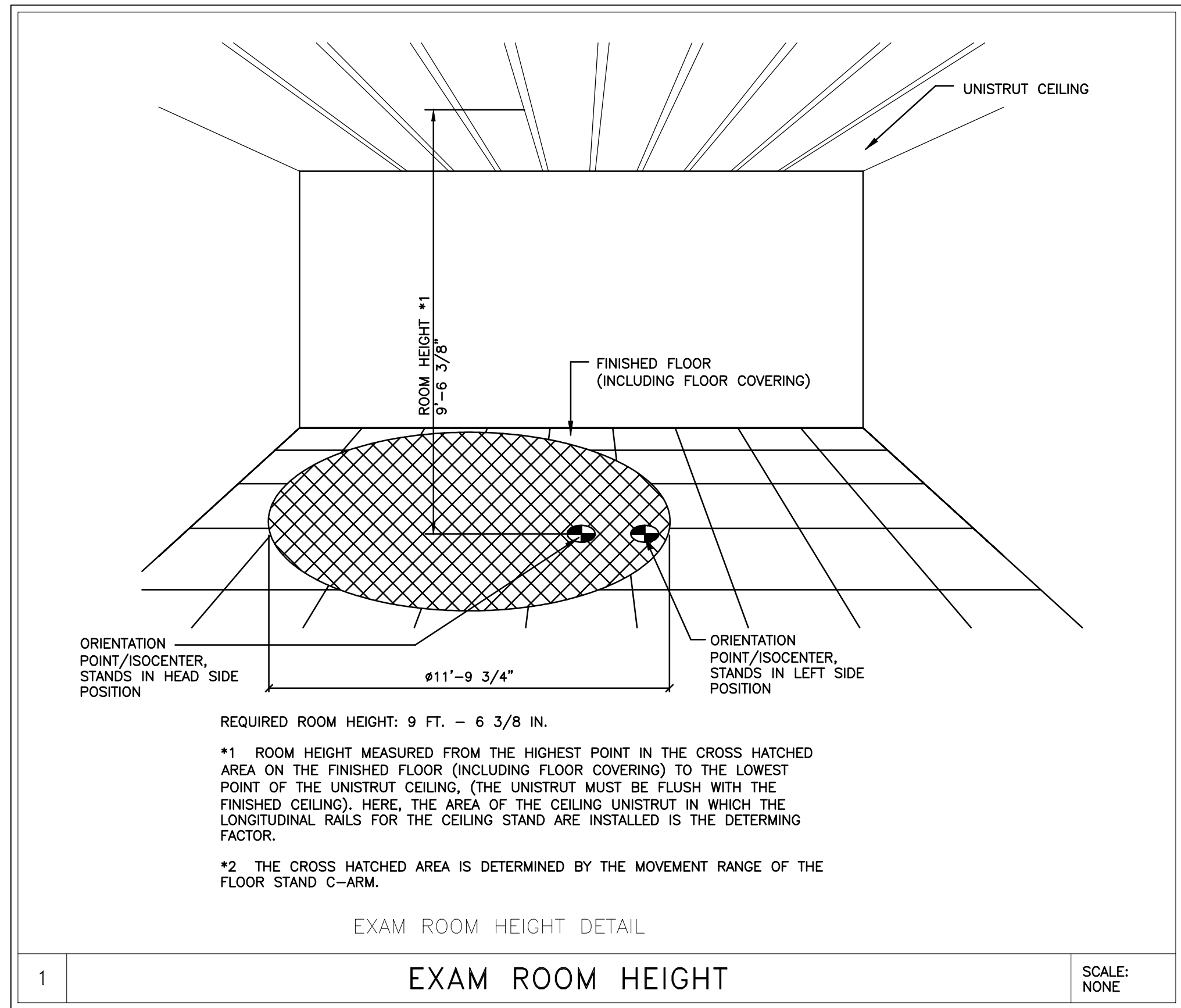
**-IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.**

-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.



STRUCTURAL CEILING PLAN

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

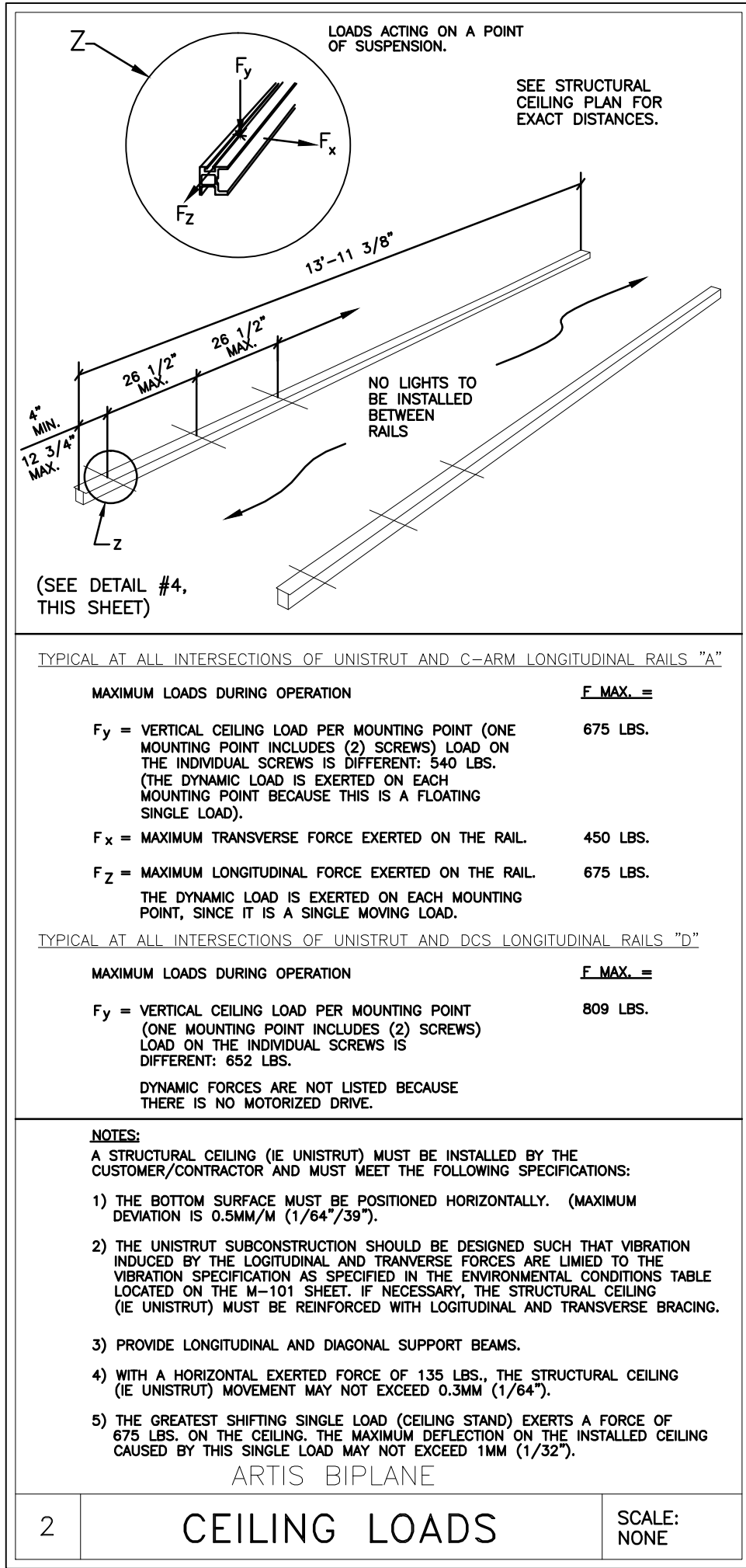


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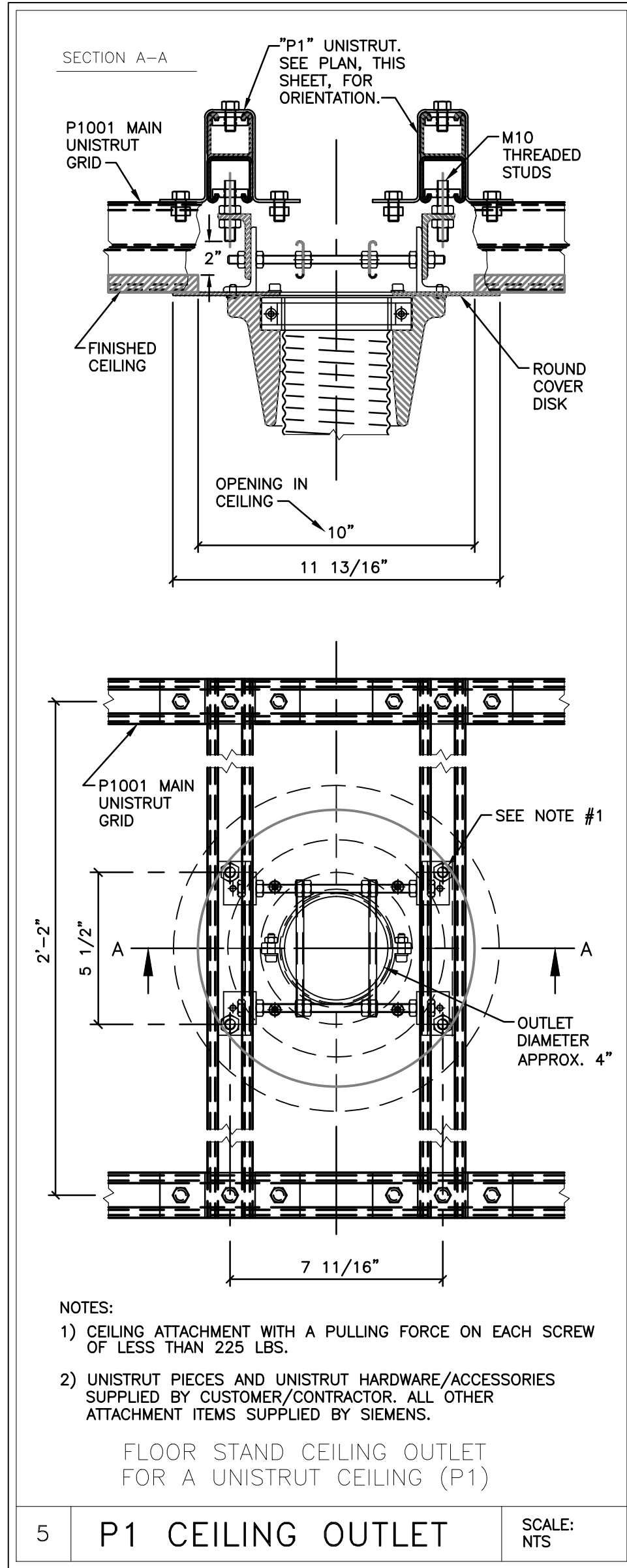
CEILING PLAN LEGEND

SUPPLIED/INSTALLED BY SIEMENS		
SYM	DESCRIPTION	DET
A	LONGITUDINAL RAILS ATTACHED TO "P-1001" UNISTRUT	2,4
C	CEILING STAND MOVES ALONG LONGITUDINAL RAILS	2,4
D	DCS RAILS ATTACHED TO "P-1001" UNISTRUT	2,4
E	DCS CARRIAGE MOVES ALONG LONGITUDINAL RAILS	2,4
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	2,4
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.	2
P1, P2	CEILING OUTLET SUPPORTS	5,6

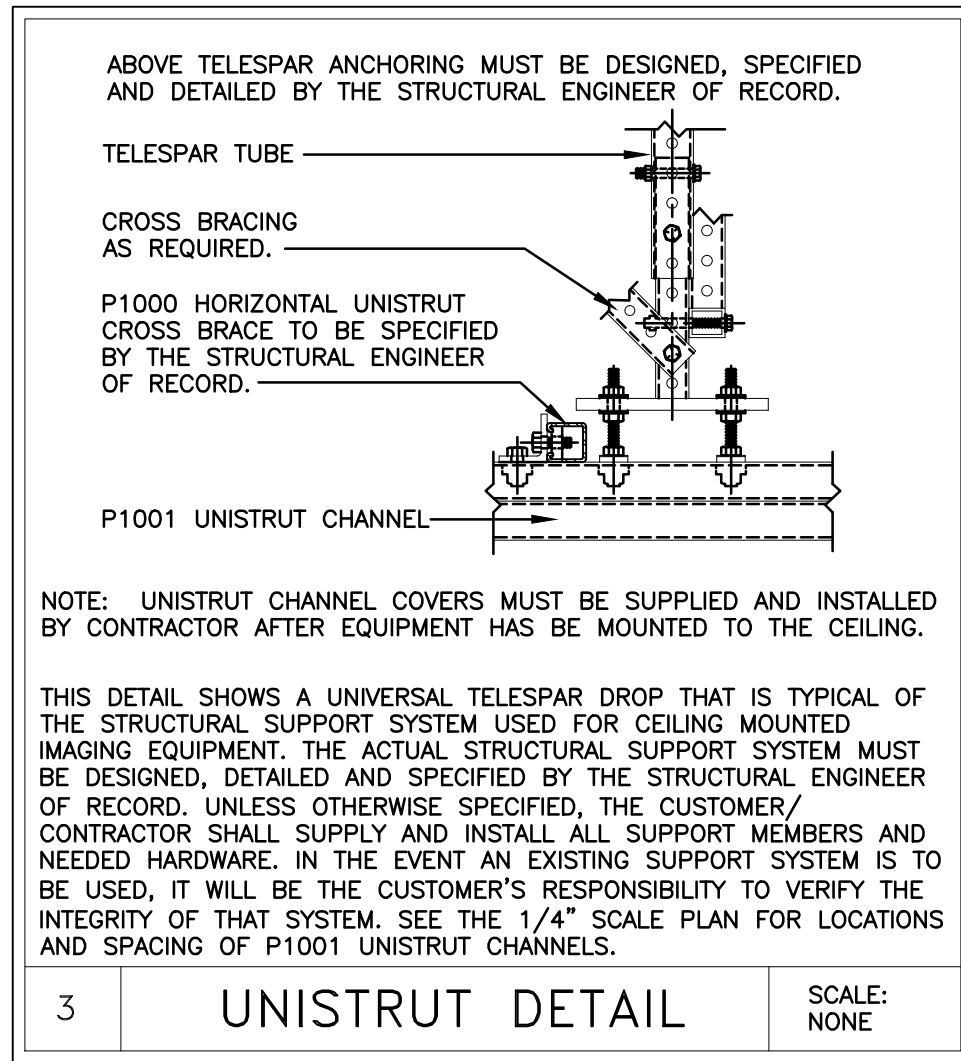
NOTE:  
ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. 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.

CEILING HEIGHT REQUIREMENT

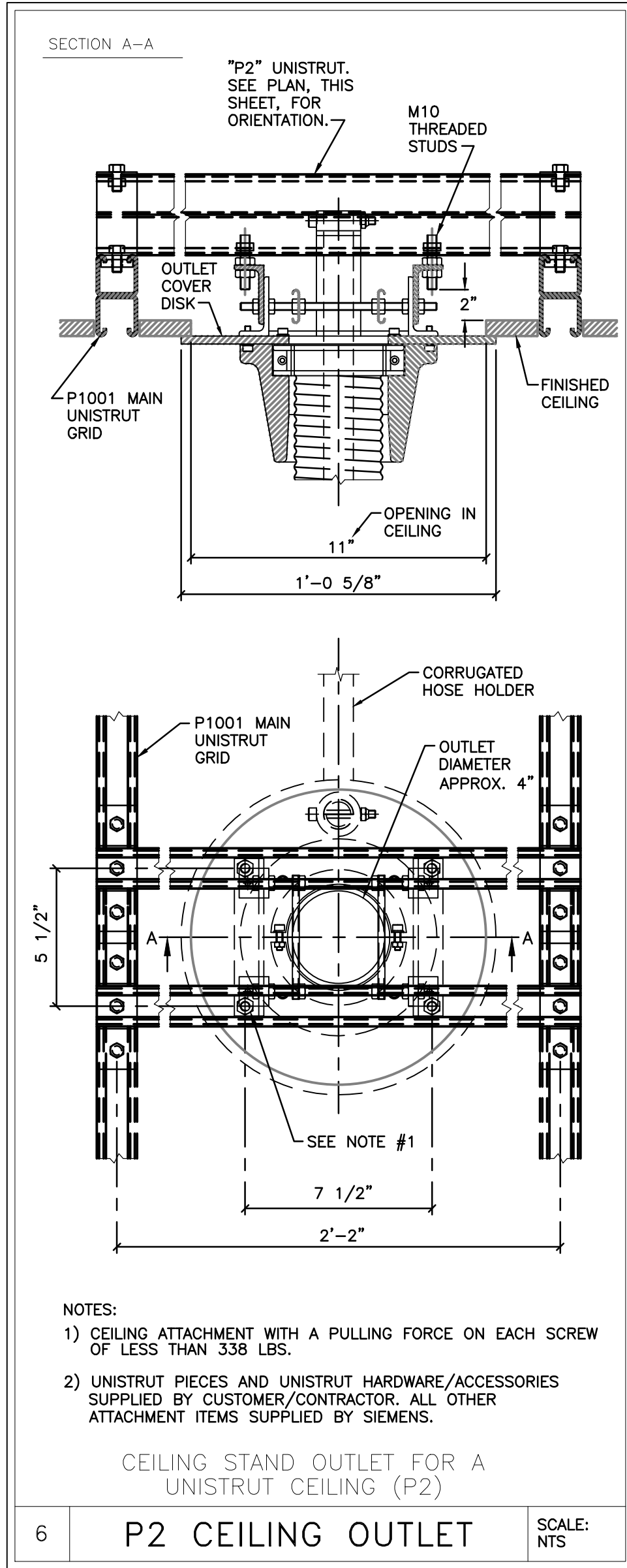
9 FT. - 6 3/8 IN.



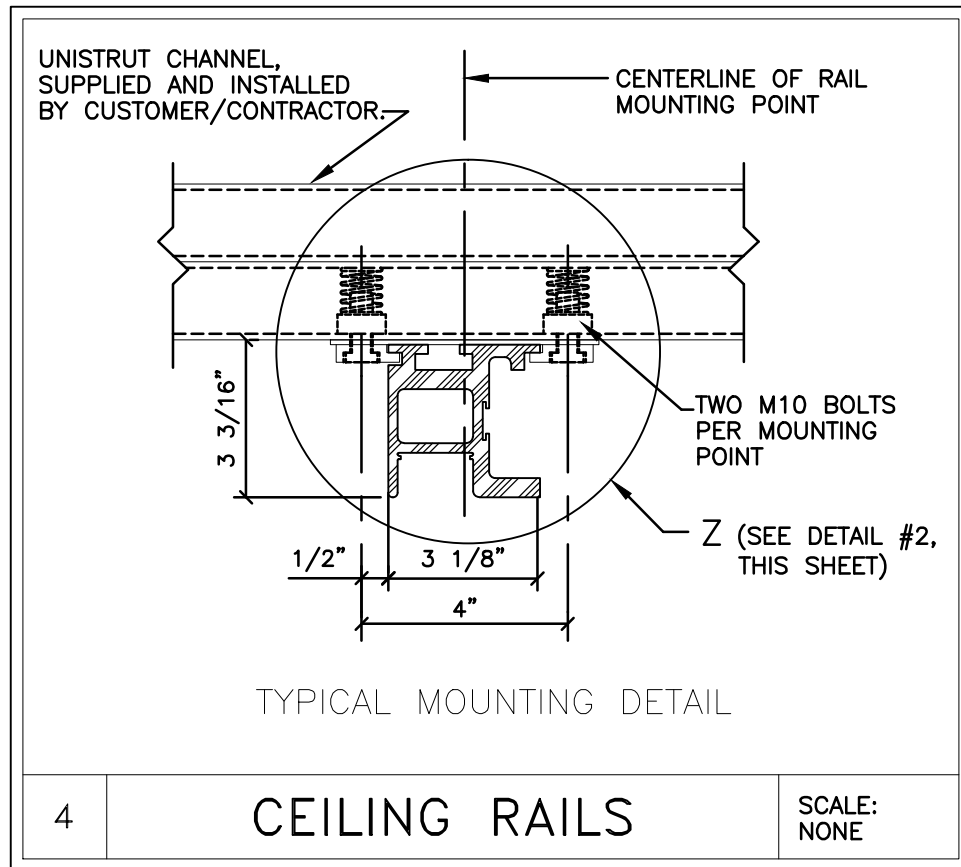
P1 CEILING OUTLET



UNISTRUT DETAIL



P2 CEILING OUTLET



CEILING RAILS

SIEMENS

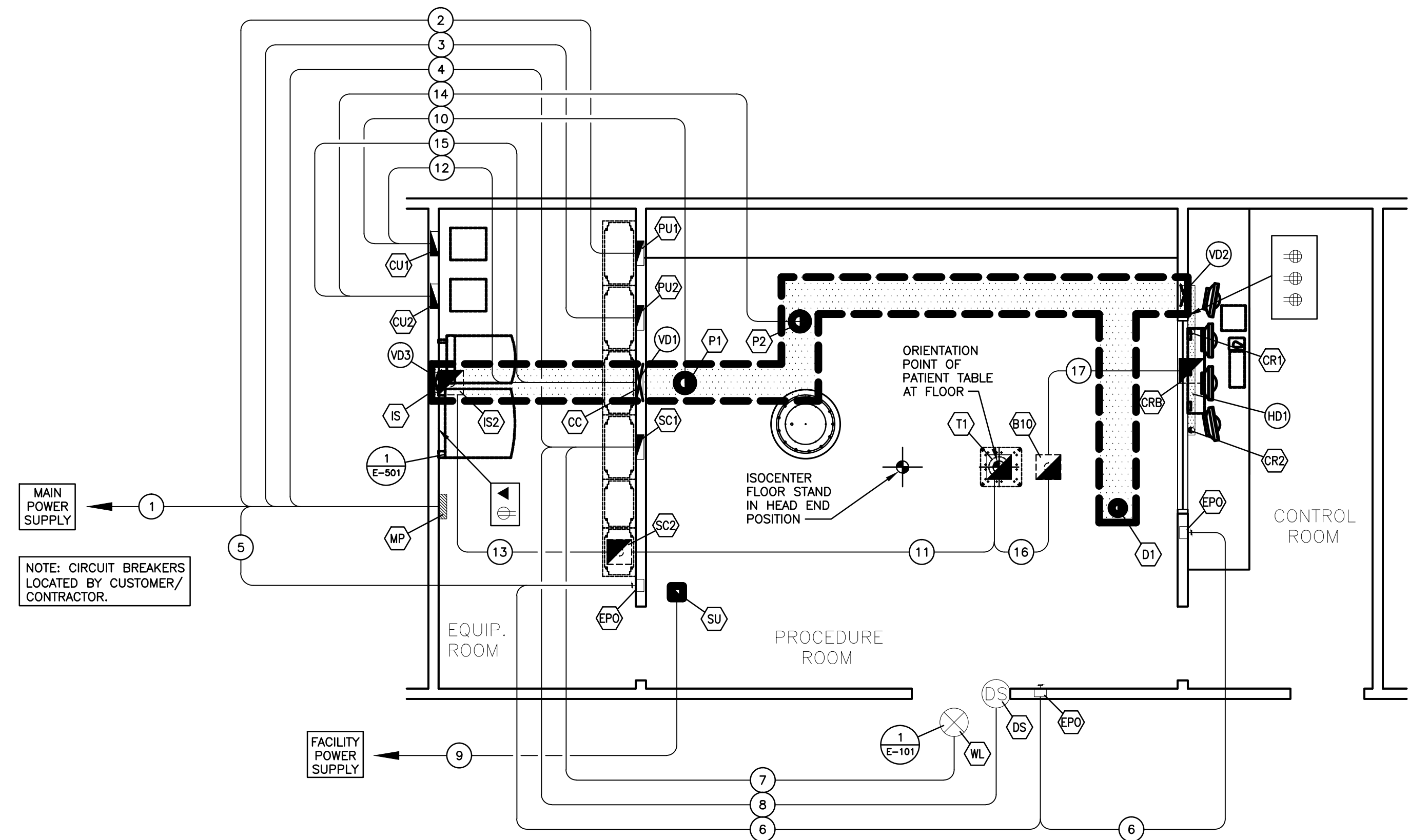
ARTIS Q / Q.ZEN / ZEE BIPLANE CARDIO

TYPICAL DRAWING / ARTIS Q/Q.ZEN/ZEE BIPLANE CARDIO

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		PROJECT #: <b>08002</b>		SHEET: <b>S-102</b>	
ALL RIGHTS ARE RESERVED.		SHEET 4 OF 7		DRAWN BY: E. SANDIFER	
CALE: AS NOTED		REF. #:		DATE: 04/08/13	
				CHECKED:	

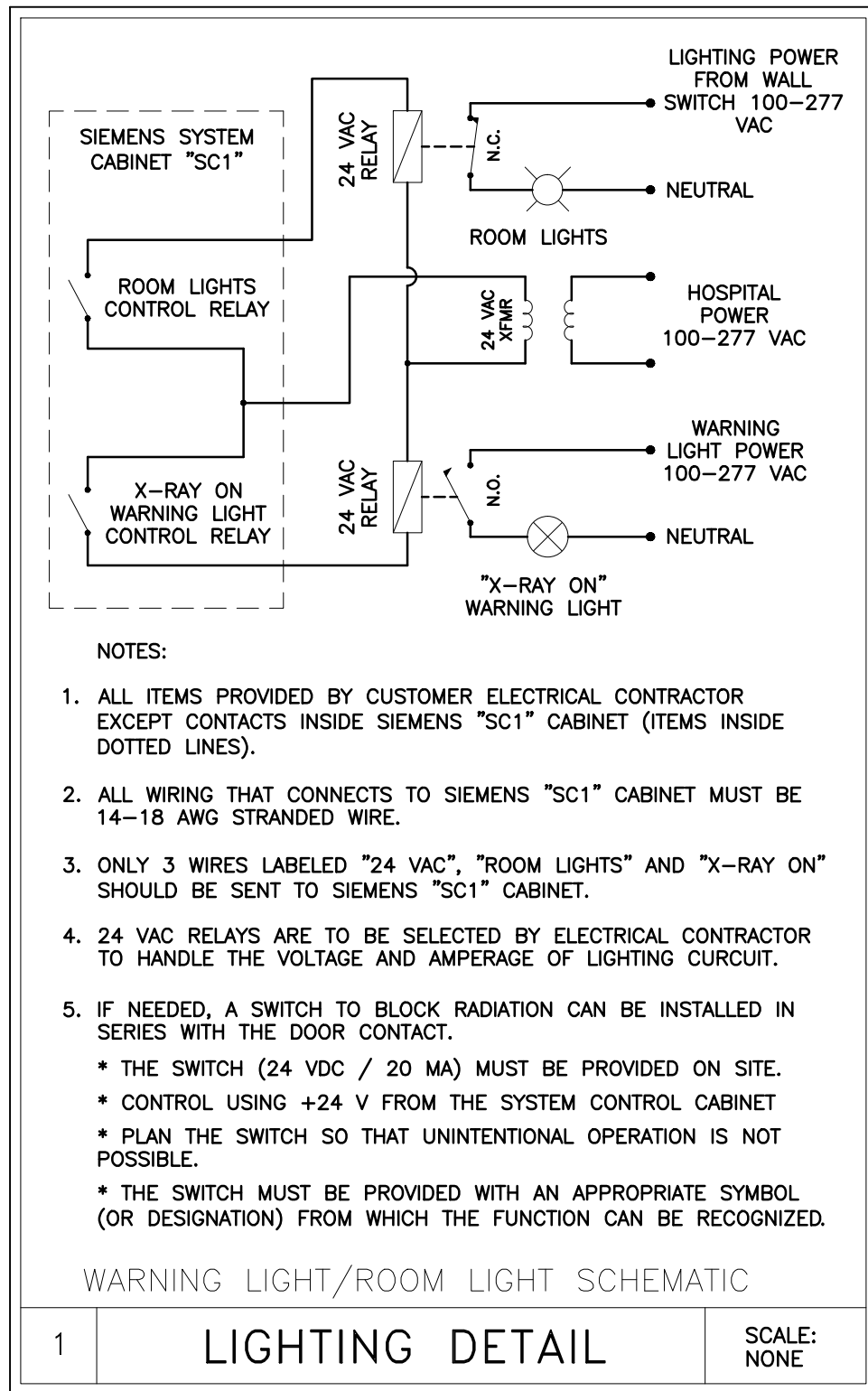
REV. Q/ZEE BIPLANE CARDIO  
04/08/13





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



POLYDOROS A100	
X-RAY GENERATOR POWER SUPPLY REQUIREMENTS	
WIRING SYSTEM:	480Y/277V-3 PHASE-4-W, 60 HZ.
MINIMUM POWER SUPPLY:	225 KVA DISTRIBUTION XFMR
X-RAY GENERATOR NAMEPLATE MOMENTARY RATING: (RADIOGRAPHIC EXPOSURE)	162 KVA, 194 AMPS, MAXIMUM RMS (IN-RUSH) CURRENT
X-RAY GENERATOR NAMEPLATE LONG-TIME RATING: (FLUOROSCOPY)	8 KVA, 25 AMPS, FULL LOAD CURRENT
INCOMING LINE IMPEDANCE (mΩ)	≤ 120
MINIMUM CIRCUIT BREAKER SIZE: (BASED ON N.E.C. 517-73)	100 AMPS
POWER QUALITY PARAMETERS	
MAXIMUM LINE VOLTAGE VARIATION	±10% OF SYSTEM VOLTAGE
MAXIMUM ALLOWABLE MOMENTARY LINE VOLTAGE VARIATION AT GENERATOR PEAK OUTPUT OF 160 KVA:	2% OF CONNECTED LINE VOLTAGE
PHASE BALANCE:	2% MAX. BETWEEN ANY 2 PHASES
FREQUENCY VARIATION:	± 1 HZ. OF 60 HZ
VOLTAGE SURGES:	10% MAX. ABOVE CONNECTED LINE VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION.
VOLTAGE SAGS:	10% MAX. BELOW CONNECTED LINE VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION.
LINE TRANSIENTS (SPIKES):	50% ABOVE CONNECTED LINE VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION.
NEUTRAL TO GROUND:	±0.5 VOLTS MAX. POTENTIAL
NEUTRAL TO GROUND SURGES:	±10 VOLTS MAX. POTENTIAL
SYSTEM GROUNDING IMPEDANCE:	0.25 OHMS MAX.
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 MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES.	
* CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LINE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO CALIBRATE THE X-RAY EQUIPMENT.	

ELECTRICAL LEGEND			
SYM	SIZE	DESCRIPTION	REMARKS
80	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 4" SLEEVE FROM BOX TO FLUSH WITH FINISHED FLOOR. PROVIDE STAINLESS STEEL WATERPROOF PLATE ON TOP OF CORED OPENING IN FLOOR.	TABLE, ACCESSORIES
CC	18" x 8"	BUSHED OPENING IN VERTICAL DUCT "VD1" COVER AT FLOOR LINE.	CABLE CABINET
88	AS REQUIRED	PULLBOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. FOR EACH CONDUIT CONNECTION, PROVIDE A FLOOR SLEEVE OF THE SAME SIZE CONNECTING BOX TO RACEWAY "HD1".	CONTROL ROOM UNDER-FLOOR BOX
01	3"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	CONTROL ROOM DISTRIBUTOR
02	3"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	CUSTOMER EQUIPMENT
01-02	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER AND (1) 4" BUSHING IN CENTER OF REMOVABLE COVER FOR CABLE EXIT. SEE PLAN FOR LOCATION.	KLIVER COOLING UNIT
01	6"	BUSHED OPENING IN BOTTOM OF CEILING DUCT "CD1". IF REQUIRED BY LOCAL CODE, PROVIDE 4" SLEEVE EXTENDING FROM DUCT TO FLUSH WITH FINISHED CEILING. PROVIDE BUSHING AT CEILING LINE.	DCS
DS	---	DOOR SWITCH, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE PLAN.	DOOR SWITCH
09		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. SEE PLAN FOR LOCATIONS.	EMERGENCY POWER OFF
05	4"	BUSHED OPENING IN VERTICAL DUCT "VD3" COVER AT FLOOR LINE.	AXIS IMAGE SYSTEM
02	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 4" SLEEVE FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	AXIS IMAGE SYSTEM
MP	SIZED BY E.C.	MULTI BREAKER PANEL. SEE DETAIL "POWER SCHEDULE" SHEET E-501	BREAKER PANEL
P1-P2	8"	BUSHED OPENING IN BOTTOM OF CEILING DUCT "CD1".	FLOOR AND CEILING MOUNTED C-ARMS
P01-P02	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.	GENERATORS
SC1	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
SC2	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 4" SLEEVE FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	SYSTEM CABINET
SU	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING. CONNECT 6 FOOT LONG FIXTURE WHIP, (EITHER 1/2" OR 3/8" GREENFIELD) WITH 3 NUMBER 12 WIRE, L, N, AND G TO BOX FOR TERMINATION TO SIEMENS EQUIPMENT AT CEILING LINE. PROVIDE 120V / 16A FACILITY POWER TO BOX.	MAVIG R96 LAMP
T1	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 4" SLEEVE FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	TABLE
WL		WARNING LIGHT TO INDICATE "X-RAY ON" SUPPLIED AND INSTALLED BY CONTRACTOR. MOUNT LIGHT ABOVE OR NEXT TO ENTRY DOOR. SEE PLAN FOR LOCATIONS.	WARNING LIGHT
001	3 1/2" x 18"	CEILING DUCT MOUNTED ABOVE FINISHED CEILING. PROVIDE DUCT WITH REMOVABLE TOP COVER AND OPENINGS AS SPECIFIED. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS. CONNECT TO VERTICAL DUCT AS SHOWN.	CEILING DUCT
001	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
001	3 1/2" x 18"	VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS.	VERTICAL DUCT
002	3 1/2" x 10"	VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS.	VERTICAL DUCT
003	3 1/2" x 10"	VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS.	VERTICAL DUCT
1	EC TO SIZE	CONDUIT FROM PANEL TO "MP"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
2	EC TO SIZE	CONDUIT FROM "MP" TO "PU1"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
3	EC TO SIZE	CONDUIT FROM "MP" TO "PU2"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
4	EC TO SIZE	CONDUIT FROM "MP" TO "SC1"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
5	3/4"	CONDUIT FROM "MP" TO "EPO"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
6	3/4"	CONDUIT FROM "EPO" TO "EPO"	
7	3/4"	CONDUIT FROM "SC1" TO "WL"	
8	3/4"	CONDUIT FROM "SC1" TO "DS"	
9	EC TO SIZE	CONDUIT FROM 120V, 16A FACILITY POWER SOURCE TO "SU".	SURGERY LIGHT
10	2 1/2"	CONDUIT FROM "P1" TO "CU1" (MINIMUM BENDING RADIUS 2")	MAXIMUM LENGTH 86"
11	(2) 3"	CONDUITS FROM "SC2" TO "T1" (ONLY WITH OR TABLE) UNDER FLOOR	MAXIMUM LENGTH 39"
12	2"	CONDUIT FROM "VD1" ("SC1") TO "CU1"	MAXIMUM LENGTH 74"
13	3"	CONDUIT FROM "SC2" TO "TS2" UNDER FLOOR	MAXIMUM LENGTH 26"
14	2 1/2"	CONDUIT FROM "P2" TO "CU2" (MINIMUM BENDING RADIUS 2")	MAXIMUM LENGTH 70"
15	2"	CONDUIT FROM "VD1" ("SC1") TO "CU2"	MAXIMUM LENGTH 86"
16	3"	CONDUIT FROM "T1" TO "B10" UNDER FLOOR	
17	3"	CONDUIT FROM "CRB" TO "B10" UNDER FLOOR (CUSTOMER PATIENT MONITORING)	

ELECTRICAL NOTES

- 1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF 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 TO ANSI, IEEE AND NEMA STANDARDS. WHERE APPLICABLE, PROVIDE ONLY MATERIALS AND PRODUCTS THAT ARE U.L. LISTED AND LABELED. CUSTOMER'S/CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF NECA STANDARD OF INSTALLATION.
- 2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT TO 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 SMS PROGRAM MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY SMS PROJECT MANAGER.
- 3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS MEDICAL SOLUTIONS EQUIPMENT SHALL BE DEDICATED SERVICES KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING AND EQUIPMENT, SUCH AS: ELEVATORS, GENERATORS, PUMPS, HVAC SYSTEMS, ETC. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER/UTILITY COMPANY FIELD REPRESENTATIVE.
- 4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS MEDICAL SOLUTIONS BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES THE FOLLOWING BUT IS NOT LIMITED TO UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.
- 5) RACEWAY AND CONDUIT NOTES: RACEWAY SHALL BE ELECTRIC METALLIC TUBING (EMT) FOR RIGID WORK, OR WHERE SHORT OFF-SET CONNECTIONS ARE REQUIRED LIGHTDIGHT FLEXIBLE METAL CONDUIT SHALL BE USED. FIELD BENDS SHALL NOT BE LESS THAN AS SHOWN IN TABLE 346-10 OF THE NATIONAL ELECTRICAL CODE. PROVIDE A JETLINE "SUPER TRUE TAPE" OR EQUIVALENT CONDUIT MEASURING TAPE FISH LINE IN ALL RACEWAYS AND CONDUITS. 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. CONNECTORS SHALL BE DOUBLE SET SCREW TYPE, STEEL CONCRETE TIGHT. 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 MEDICAL SYSTEMS CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. PROVIDE ENCLOSED METAL RACEWAY SYSTEM (WIRE DUCT) WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT (FOR POWER AND SIEMENS MEDICAL SOLUTIONS CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. FOR UL CERTIFIED SYSTEMS, THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM INVESTIGATION OF THIS EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS, AS THEY CAN BE IN THE SAME RACEWAY. PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF OPENINGS TO BE CUT IN FIELD ARE TO 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. IN- FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.
- 6) WIRING: WIRING SHALL BE INSTALLED IN METAL RACEWAY, 600 VOLT CLASS, STRANDED TYPE THHN-THWN, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 75° C (165° F). SIZED AS INDICATED. THE CUSTOMER/CONTRACTOR SHALL LEAVE MINIMUM 10 FT. WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY SIEMENS MEDICAL SOLUTIONS.
- 7) IN ADDITION TO THE CIRCUIT BREAKER LOAD CURRENT RATING, CONSIDERATION MUST ALSO BE GIVEN TO SELECTING CIRCUIT BREAKERS THAT HAVE A HIGH ENOUGH SHORT CIRCUIT CURRENT WITHSTAND RATING TO SAFELY COORDINATE WITH THE POWER SYSTEM AVAILABLE SHORT CIRCUIT CURRENT. GENERALLY, WHEN THE 480 VOLT, 3 PHASE, X-RAY EQUIPMENT IS SERVED FROM A POWER SUPPLY SYSTEM THAT IS PROVIDED WITH A 500 KVA OR SMALLER TRANSFORMER, A STANDARD 14,000 RMS AMPERE WITHSTAND RATED CIRCUIT BREAKER WILL BE ADEQUATE. HOWEVER, IF THE POWER SUPPLY SYSTEM TRANSFORMER IS LARGER THAN 500 KVA, THEN THE CIRCUIT BREAKERS HAVING A SHORT CIRCUIT WITHSTAND RATING GREATER THAN 14,000 RMS AMPERES MAY BE REQUIRED.

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"

ATTENTION:

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CEILING HEIGHT REQUIREMENT

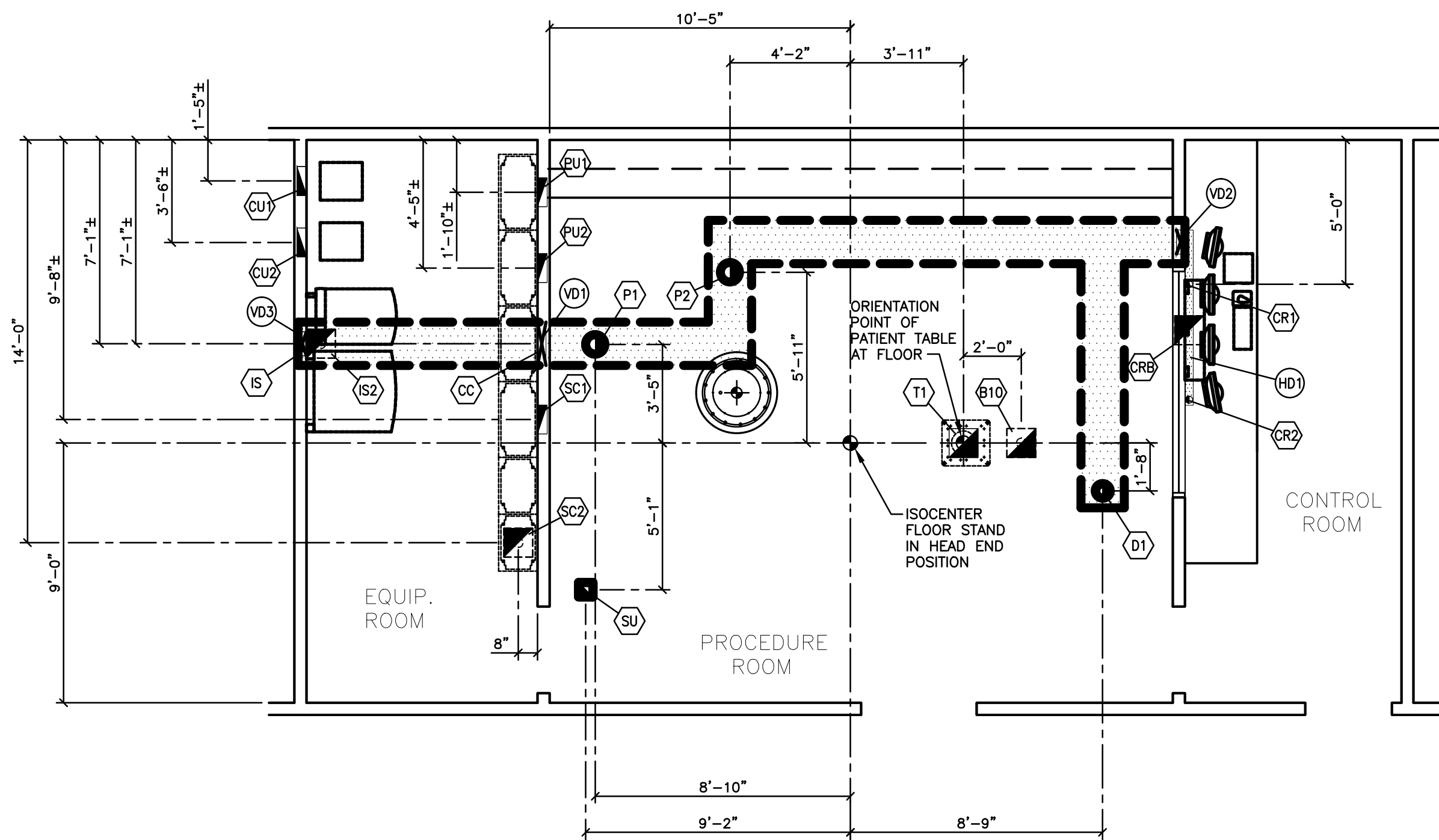
9 FT. - 6 3/8 IN.

SYM	DATE	DESCRIPTION
Δ	04/08/13	TYPICAL DRAWING
-ISSUE BLOCK-		

ARTIS Q / Q.ZEN / ZEE BIPLANE CARDIO	
TYPICAL DRAWING / ARTIS Q/Q.ZEN/ZEE BIPLANE CARDIO	
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	
PROJECT #:	SHEET:
08002	E-101
SHEET 5 OF 7	DRAWN BY: E. SANDIFER
DATE: 04/08/13	CHECKED:
SCALE: AS NOTED	REF. #:

REV A/ZE BLANK 04/08/13

SIEMENS



ELECTRICAL DIMENSION PLAN

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

CEILING  
HEIGHT  
REQUIREMENT  
9 FT. - 6 3/8 IN.

ATTENTION:

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			SIEMENS		
			ARTIS Q / Q.ZEN / ZEE BIPLANE CARDIO		
			TYPICAL DRAWING / ARTIS Q/Q.ZEN/ZEE BIPLANE CARDIO		
			THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		PROJECT #:
			ALL RIGHTS ARE RESERVED.		SHEET:
			SCALE: AS NOTED		DATE: 04/08/13
			REF. #:		CHECKED:
			SYM		DATE
			DESCRIPTION		
			-ISSUE BLOCK-		
			04/08/13		TYPICAL DRAWING
			08002		6 OF 7
			E. SANDIFER		DRAWN BY:
			04/08/13		CHECKED:
			E-102		

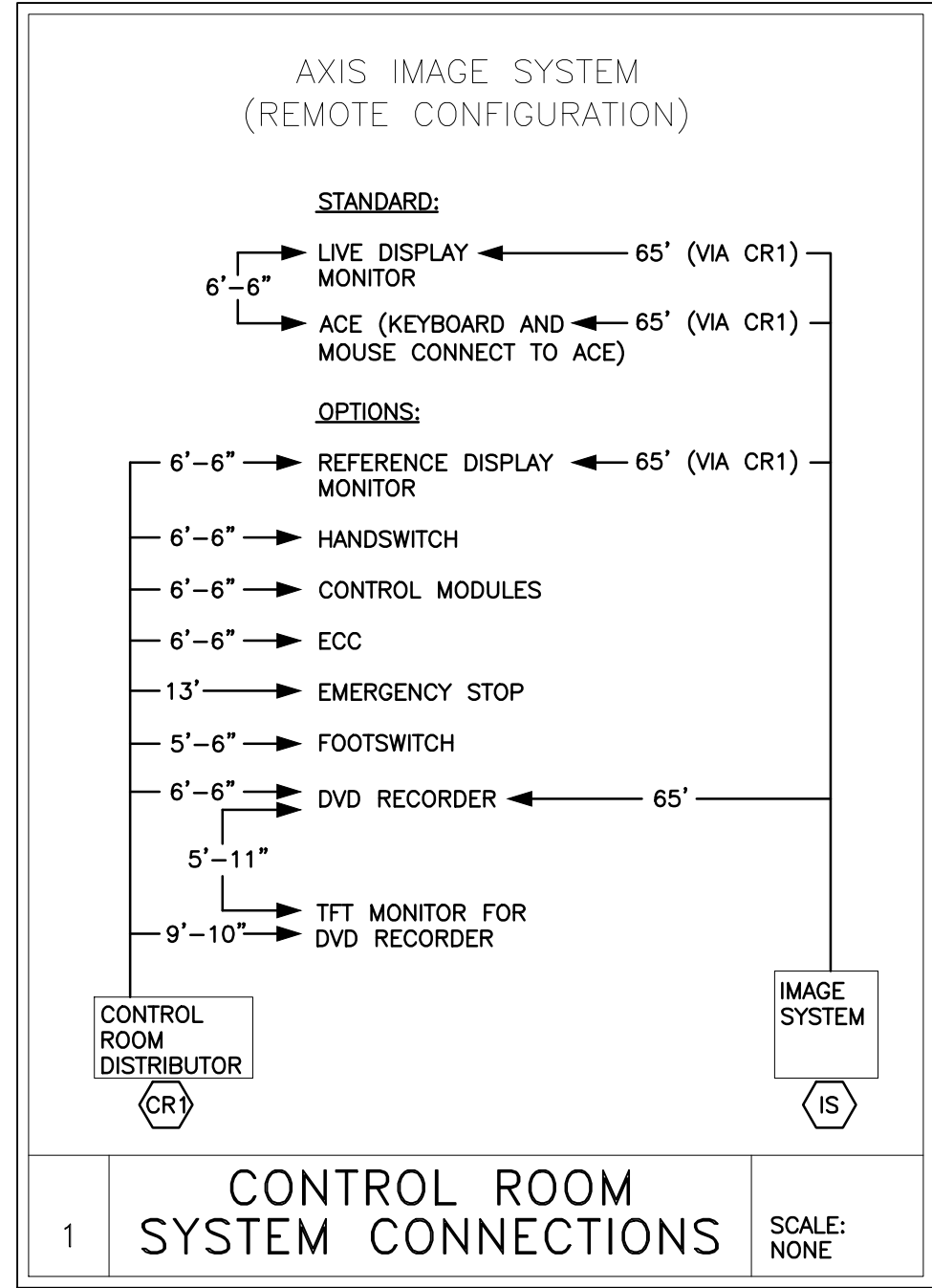
REV. 4/25/2013  
04/08/13

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

## POWER SCHEDULE

ALL CONDUITS AND WIRES SIZES MUST BE DETERMINED BY THE ELECTRICAL ENGINEER OF RECORD PER N.E.C. AND TO MAINTAIN SIEMENS IMPEDANCE REQUIREMENTS.

ITEM	QTY	DESCRIPTION														
MP	1	<p>MAIN PANEL WITH MAIN BREAKER FLUSH OR SURFACE MOUNTED. MAIN BREAKER MUST HAVE TRIPPING DEVICE SO WHEN ANY EPO IS PRESSED THE MAIN BREAKER TRIPS.</p> <p>MAIN BREAKER AMPS: 225</p> <table border="1"> <thead> <tr> <th>VOLTS</th> <th>PHASES</th> <th>NEUTRAL</th> <th>GROUND</th> <th>TOTAL WIRES</th> </tr> </thead> <tbody> <tr> <td>480/277Y</td> <td>3</td> <td>1</td> <td>1</td> <td>5 (NOTE 1)</td> </tr> </tbody> </table>					VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES	480/277Y	3	1	1	5 (NOTE 1)
VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES												
480/277Y	3	1	1	5 (NOTE 1)												
A	1	<p>BREAKER AMPS: 100 (FOR PU1)</p> <table border="1"> <thead> <tr> <th>VOLTS</th> <th>PHASES</th> <th>NEUTRAL</th> <th>GROUND</th> <th>TOTAL WIRES</th> </tr> </thead> <tbody> <tr> <td>480Y</td> <td>3</td> <td>0</td> <td>1</td> <td>4 (NOTE 1)</td> </tr> </tbody> </table>					VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES	480Y	3	0	1	4 (NOTE 1)
VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES												
480Y	3	0	1	4 (NOTE 1)												
B	1	<p>BREAKER AMPS: 100 (FOR PU2)</p> <table border="1"> <thead> <tr> <th>VOLTS</th> <th>PHASES</th> <th>NEUTRAL</th> <th>GROUND</th> <th>TOTAL WIRES</th> </tr> </thead> <tbody> <tr> <td>480Y</td> <td>3</td> <td>0</td> <td>1</td> <td>4 (NOTE 1)</td> </tr> </tbody> </table>					VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES	480Y	3	0	1	4 (NOTE 1)
VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES												
480Y	3	0	1	4 (NOTE 1)												
C	1	<p>BREAKER AMPS: 50 (FOR SC1)</p> <table border="1"> <thead> <tr> <th>VOLTS</th> <th>PHASES</th> <th>NEUTRAL</th> <th>GROUND</th> <th>TOTAL WIRES</th> </tr> </thead> <tbody> <tr> <td>480/277Y</td> <td>3</td> <td>1</td> <td>1</td> <td>5 (NOTE 1)</td> </tr> </tbody> </table> <p>1) ALL WIRES MUST BE SAME SIZE.</p>					VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES	480/277Y	3	1	1	5 (NOTE 1)
VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES												
480/277Y	3	1	1	5 (NOTE 1)												
EPO	VARIES	<p>EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER THAT PREVENTS ACCIDENTAL ACTIVATION OF THE EPO BUTTON. THE EPO MUST BE OF FAIL-SAFE DESIGN, THE CONTROL CIRCUIT FOR THE EPOs MUST HAVE AN ENERGY STORAGE SOURCE SO THAT THE CONTROL CIRCUIT NEVER LOSES POWER. ALL EPOs ARE TO BE LATCHING TYPE AND MUST BE RESET BEFORE MAIN BREAKER CAN BE RESET.</p> <p>IF ANY OPTIONAL UPS EQUIPMENT IS PROVIDED BY SIEMENS, THE CUSTOMER/CONTRACTOR SHALL PROVIDE AN ADDITIONAL CIRCUIT IN EACH EPO AND PROVIDE SEPARATE WIRING FOR AN ADDITIONAL EPO CIRCUIT AS REQUIRED. PLEASE COORDINATE THE TYPE OF CONTACT REQUIRED FOR THE UPS CIRCUIT WITH SIEMENS PROJECT MANAGER.</p> <p>THE EPOs MUST BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR ACCORDING TO NATIONAL ELECTRICAL CODE, STATE AND LOCAL REGULATIONS. MEASURES SHOULD BE TAKEN TO DESIGN THE CIRCUIT IN SUCH A WAY THAT IT WILL ALWAYS WORK WHEN THE MEDICAL EQUIPMENT IS POWERED. THE CUSTOMER IS SOLELY RESPONSIBLE FOR THE IMPLEMENTATION OF THE EPOs AND THEIR ASSOCIATED CIRCUITS AND MUST MAKE THE FINAL DETERMINATION CONSIDERING ALL SITE CONDITIONS AND REGULATORY FACTORS.</p>														
ALL ITEMS LISTED IN THIS SCHEDULE SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.																



POWER REQUIREMENTS	
POLYDOROS-M / POLYDOROS A100 GENERATOR #1 (PU1):	
480 VOLTS, 3-PHASE, 162 KVA, 100 AMPS, 60 Hz	
POLYDOROS-M / POLYDOROS A100 GENERATOR #2 (PU2):	
480 VOLTS, 3 PHASE, 162 KVA, 100 AMPS, 60 Hz	
SYSTEM CONTROL CABINET (SC1):	
480 VOLTS, 3-PHASE, 14 KVA, 50 AMPS, 60 Hz.	

<p><b>POWER QUALITY</b></p>
<p><b>POOR POWER WILL ALTER EQUIPMENT PERFORMANCE</b></p>
<p><b>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.</b></p>

## 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 GROUNDING 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.

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CONTRACTOR SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
PANEL	1	MP	ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND	SEE DETAIL "POWER SCHEDULE" SHEET E-501
MP	2	PU1	3#2, 1#2 GROUND AND CONNECT	SEE DETAIL "POWER SCHEDULE" SHEET E-501
MP	3	PU2	3#2, 1#2 GROUND AND CONNECT	SEE DETAIL "POWER SCHEDULE" SHEET E-501
MP	4	SC1	3#6, 1#6 NEUTRAL, 1#6 GROUND AND CONNECT	SEE DETAIL "POWER SCHEDULE" SHEET E-501
MP	5	EPO	2#12, PLUS GROUND	SEE DETAIL "POWER SCHEDULE" SHEET E-501
EPO	6	EPO	2#12, PLUS GROUND	SEE DETAIL "POWER SCHEDULE" SHEET E-501
SC1	7	WL	14-18 AWG	SEE "LIGHTING DETAIL" SHEET E-101
SC1	8	DS	3#12, PLUS GROUND	
PANEL	9	SU	EC TO SIZE	SURGERY LIGHT

SIEMENS SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
P1	10	CU1	MINIMUM BENDING RADIUS 2"	MAXIMUM LENGTH 98'
SC2	11	T1		MAXIMUM LENGTH 45'
SC1	12, "VD1"	CU1		MAXIMUM LENGTH 98'
SC1	13	IS		MAXIMUM LENGTH 32'
P2	14	CU2	MINIMUM BENDING RADIUS 2"	MAXIMUM LENGTH 82'
SC1	15, "VD1"	CU2		MAXIMUM LENGTH 98'
T1	16	B10		
CRB	17	B10	CUSTOMER PATIENT MONITORING, ETC.	
P1	"CD1", "VD1"	PU1		MAXIMUM LENGTH 52'
P1	"CD1", "VD1"	PU1	(2) HIGH VOLTAGE CABLES	MAXIMUM LENGTH 52'
P1	"CD1", "VD1"	SC1	MINIMUM BENDING RADIUS 3"	MAXIMUM LENGTH 49'
SC1	"VD1", "CD1", "VD2", "HD1"	CR1	FOR CONTROL ROOM OPTIONS, MODULES, FOOT SWITCH	MAXIMUM LENGTH 62'
SC1	UNDER CABINETS	PU1		MAXIMUM LENGTH 16'
SC1	"VD1", "CD1"	D1		MAXIMUM LENGTH 62'
IS	"VD3", "CD1"	D1		MAXIMUM LENGTH 74'
P2	"CD1", "VD1"	PU2		MAXIMUM LENGTH 49'
P2	"CD1", "VD1"	PU2	(2) HIGH VOLTAGE CABLES	MAXIMUM LENGTH 49'
P2	"CD1", "VD1"	SC3	MINIMUM BENDING RADIUS 3" ONLY WITH ARTIS dBA SYSTEM	MAXIMUM LENGTH 49'
PU2	UNDER CABINETS	PU1		MAXIMUM LENGTH 16'
LDC	"VD3", "CD1"	D1	DCS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 82'
LDC	"VD3", "CD1", "VD1"	SC1	DCS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 57'
LDC	"VD3"	IS	DCS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 8'

ARTIS Q/ZEE BIFLAME CARD  
04/08/13

ARTIS Q / Q.ZEN / ZEE BIPLANE CARDIO

TYPICAL DRAWING / ARTIS Q/Q.ZEN/ZEE BIPLANE CARDIO

PROJECT #:

SHEET:

E-501

SHEET      OF

DRAWN BY: \_\_\_\_\_

DATE:

CHECKED:

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SIEMENS AUTHORIZATION WILL  
RESULT IN PROSECUTION UNDER  
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AS NOTED

100

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