

AREA A: NO CEILING COMPONENTS THAT EXTEND BELOW FINISHED CEILING AND ARE NOT PART OF THE SYSTEM MAY BE MOUNTED IN THIS AREA.

AREA B: NON-SYSTEM CEILING COMPONENTS THAT ARE MOUNTED IN THIS AREA MUST MEET THE FOLLOWING REQUIREMENTS:

\* THE BOTTOM EDGE OF ANY FIXED COMPONENT MUST BE NO LESS THAN 8'-6 3/8" A.F.F.

\* ANY COMPONENT EXTENDING BELOW 8'-6 3/8" A.F.F. MUST HAVE THE ABILITY TO MOVE OUTSIDE THE AREA SHOWN VIA ARTICULATION, TRACK MOUNTING, ETC.

NON-SIEMENS (OEM) DISPLAY BOOMS CONTAINING SIEMENS MONITORS.

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.

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 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.

THE CONDUITS THAT GO FROM THE ROBOT CABINET IN THE EQUIPMENT ROOM TO THE ROBOT IN THE PROCEDURE ROOM MUST BE RAN AS STRAIGHT AS POSSIBLE DUE TO CABLE LENGTH RESTRICTIONS.

THE CONDUITS THAT GO FROM THE ELECTRONICS CABINETS IN THE EQUIPMENT ROOM TO THE CEILING SPOOLER IN THE PROCEDURE ROOM MUST BE RAN AS STRAIGHT AS POSSIBLE DUE TO CABLE LENGTH RESTRICTIONS.

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.

SUGGESTED 2'-6" SQUARE SHELF 48" A.F.F. FOR MOUNTING COOLING UNIT ABOVE IMAGER. PROVIDE TRAY UNDERNEATH FOR LEAK PROTECTION WITH 2.5 GALLON CAPACITY. SHELF PROVIDED BY CUSTOMER/CONTRACTOR.

LARGE DISPLAY TO BE MOUNTED ON A CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED BOOM ARM.

TRANSFORMER TO BE WALL MOUNTED 60" A.F.F.

SAFETY/SERVICE CLEARANCE

ORIENTATION POINT OF PATIENT TABLE AT FLOOR

PATIENT TABLE MOVEMENT RANGE (FOOT-END)

PATIENT TABLE MOVEMENT RANGE (HEAD-END)

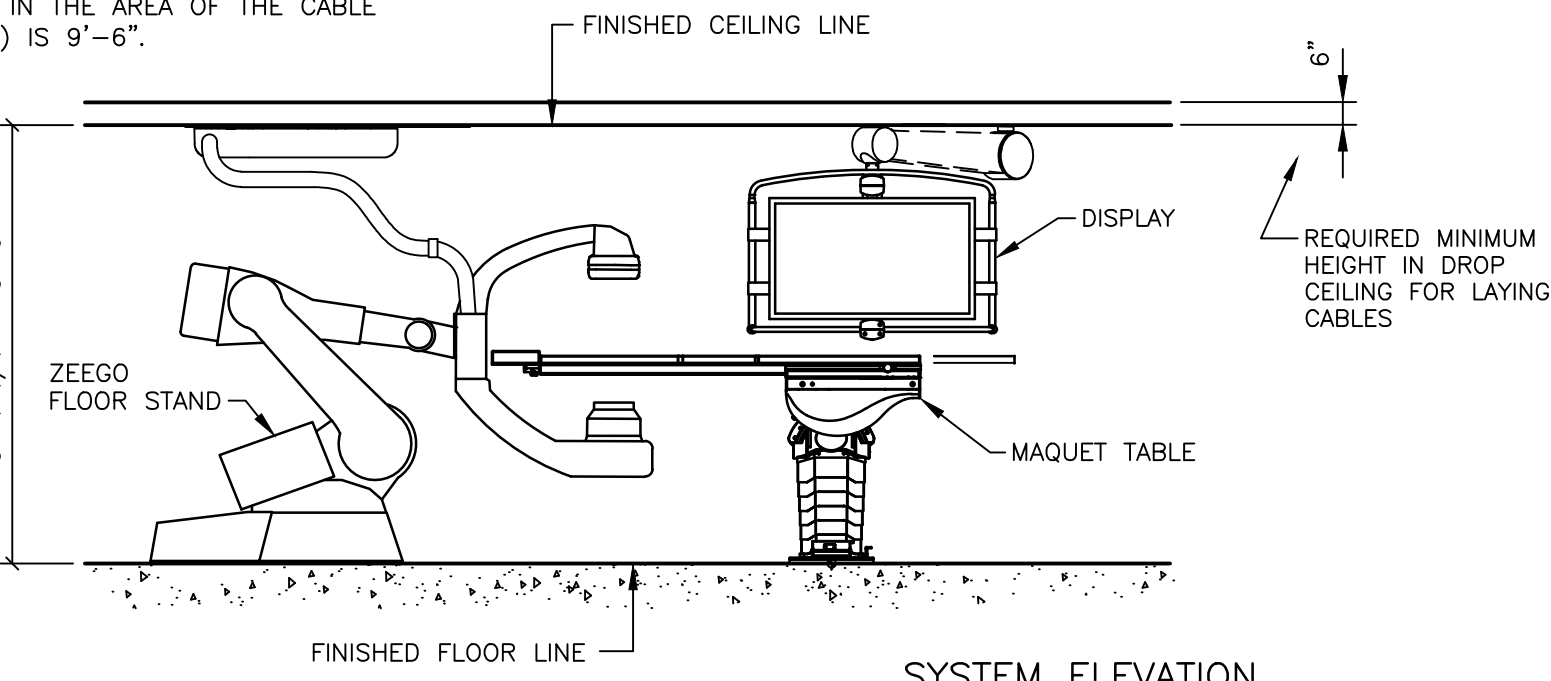
ISOCENTER OF FLOOR STAND

PROPOSED 2'-6" DEEP COUNTERTOP PROVIDED BY CUSTOMER/CONTRACTOR.

## ARCHITECTURAL EQUIPMENT PLAN

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

NOTE: CEILING HEIGHT OUTSIDE AREA "A", AS SHOWN ON THE SITE-SPECIFIC DRAWING (THIS SHEET) CAN BE GREATER THAN 9'-6". MAX. CEILING HEIGHT IN THE AREA OF THE CABLE REEL (AREA "A") IS 9'-6".



TYPICAL SYSTEM ELEVATION

SCALE: NONE

## ROOM MEASUREMENTS

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

CEILING HEIGHT RANGE

9'-4 1/4" - 9'-6"

RECOMMENDED CEILING HEIGHT

9'-6"

## 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.

## 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	MTD. ON CONTROL COUNTER
2	CONTROL ROOM DISTRIBUTOR	⊖	64	342	41 1/2	8 1/4	16 1/8	MTD. ON WALL
3	KEYBOARD	⊖	2.2	342	17 1/2	6 1/8	2 1/8	MTD. UNDER COUNTER OR ON CONSOLE
4	19" MONOCHROME LIVE DISPLAY	⊖	15	256	16 1/2	8 1/4	13 1/2	ON COUNTER OR CONSOLE
5	INTERCOM POWER UNIT	⊖	---	---	6 3/4	5	1 3/8	ON COUNTER
6	INTERCOM MICROPHONE/LOUDSPEAKER (CONTROL ROOM)	⊖	---	---	4 1/2	9	2	ON COUNTER
7	INTERCOM LOUDSPEAKER (PROCEDURE ROOM)	⊖	---	---	3 1/4	2	6	WALL MOUNTED
8	TROLLEY FOR CONTROL MODULES	⊖	59	---	23	21	40	MOUNTED ON CASTERS
9	LARGE DISPLAY - BOOM 1 (MONITOR ONLY)	⊖	132	1,706	54 3/4	5 3/4	31 1/2	OEM BOOM MOUNTED
10	ARTIS ZEEGO FLOOR STAND W/ MOUNTING PLATE	⊖	3,997	1,706	---	---	---	ROBOT FLOOR MOUNTED
11	FLOOR STAND CABLE REEL	⊖	268	---	71	71	10 1/8	CEILING SUSPENDED
12	MAQUET PATIENT TABLE	⊖	1,168	102	---	---	---	TABLE FLOOR MOUNTED
13	INJECTOR WALL CONNECTION BOX (OPTION)	⊖	11	---	12 3/4	4	10 1/2	WALL MOUNTED
14	POLYDOROS A100 GENERATOR CABINET	⊖	723	4,094	31 1/2	17 1/8	87	FLOOR MOUNTED
15	CABLE CABINET	⊖	265	---	31 1/2	17 1/8	87	FLOOR MOUNTED
16	SYSTEM CONTROL CABINET	⊖	677	5,460	31 1/2	17 1/8	87	FLOOR MOUNTED
17	ARTIS ZEEGO FLOOR STAND CONTROL CABINET	⊖	368	5,118	31 3/4	20 1/2	53 1/4	FLOOR MOUNTED
18	LARGE DISPLAY CONTAINER FOR DCS LARGE DISPLAY	⊖	253	1,535	23	37 1/2	28 3/8	MTD. ON CASTERS
19	AXIS IMAGE SYSTEM	⊖	331	4,347	23 3/4	37 1/4	28	MTD. ON CASTERS
20	KLUVER COOLING UNIT	⊖	93	15,355	18 3/4	15 1/2	18 3/4	FLOOR OR SHELF MOUNTED
21	MAQUET TRANSFORMER	⊖	59	---	13 3/4	6	15 1/2	WALL MOUNTED
22	MEDRAD MK 7 ARTERIAL INJECTOR INTEGRATED PEDESTAL MOUNTED	⊖	146	---	47 5/16	22	57 3/8	SEE MFG REQUIREMENTS
23	POWERWARE 9355 15KVA UPS AND BATTERY	⊖	587	8,134	12 3/4	33 1/2	47 3/4	SEE MFG REQUIREMENTS
24	POWERWARE 9355 OUTPUT TRANSFORMER CABINET	⊖	535	---	20	34 1/8	66	SEE MFG REQUIREMENTS
25	POWERWARE 9355 REMOTE PANEL MONITOR	⊖	---	---	5 7/8	1 5/8	4 7/8	SEE MFG REQUIREMENTS
26	SYNGO X WORKSTATION TOWER, KEYBOARD, MONITOR	⊖	40	2,730	7 1/2	19	17	ON FLOOR

## 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

## ANGIOGRAPHY/CARDIAC

#### TYPICAL EXAM ROOM EQUIPMENT

— CRASH CART — IV POLES — LEAD SHIELD  
— LIGHTING — INJECTOR — ANESTHESIA EQUIPMENT  
— CATHETERS — SCRUB AREA — VIEW BOX  
— GUIDE WIRES — APRON RACK — STERILE TRAY  
— GASES — OUTLETS — PHYSIOLOGICAL MONITORING

EQUIPMENT SUPPLIED AND INSTALLED BY CUSTOMER

## 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	

## TRANSPORT FRAME REQUIREMENTS

	COMPONENT	WIDTH	DEPTH	HEIGHT	WEIGHT
LONGITUDINAL CASTORS	FLOOR STAND	42"	78"	67"	3,520 LBS.
	C-ARM	34"	86"	74"	1,034 LBS.
TRANSVERSE CASTORS	FLOOR STAND	60"	71"	67"	3,520 LBS.
	C-ARM	52"	77"	74"	1,034 LBS.

## ARCHITECTURAL NOTES

1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS MEDICAL SOLUTIONS, INC. (SMS HEREAFER) 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 ENCRDACH 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. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES 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 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 LOCATION 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 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 Q ZEEGO W/ MAQUET TABLE	AXAQ-040.891.03.01.02	05.13

REV. 3

**SIEMENS**  
**HEALTH CARE**

5800 HOLLIS STREET, EMERYVILLE, CA. 94608  
HYBRID OR - ARTIS ZEEGO WITH MAQUET O.R. TABLE

PROJECT #:

1502697

SHEET:

A-101

SHEET 1 OF 8

DRAWN BY: R.SUTHERS

DATE: 01/28/16

PROJECT MANAGER: JIM STANCIL  
TEL: (415) 278-1915  
FAX:  
EMAIL: jim.stancil@siemens.com

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SCALE: AS NOTED REF. # 30187591

SYM	DATE	DESCRIPTION
Δ	04/14/16	REVISED FINALS PER "P1" OUTLET LOCATION.
Δ	01/28/16	PLANNER CORRECTIONS
Δ	01/04/16	R-101(RD) VERSION DATED 12/04/15 APPROVED BY CUSTOMER FOR FINALS

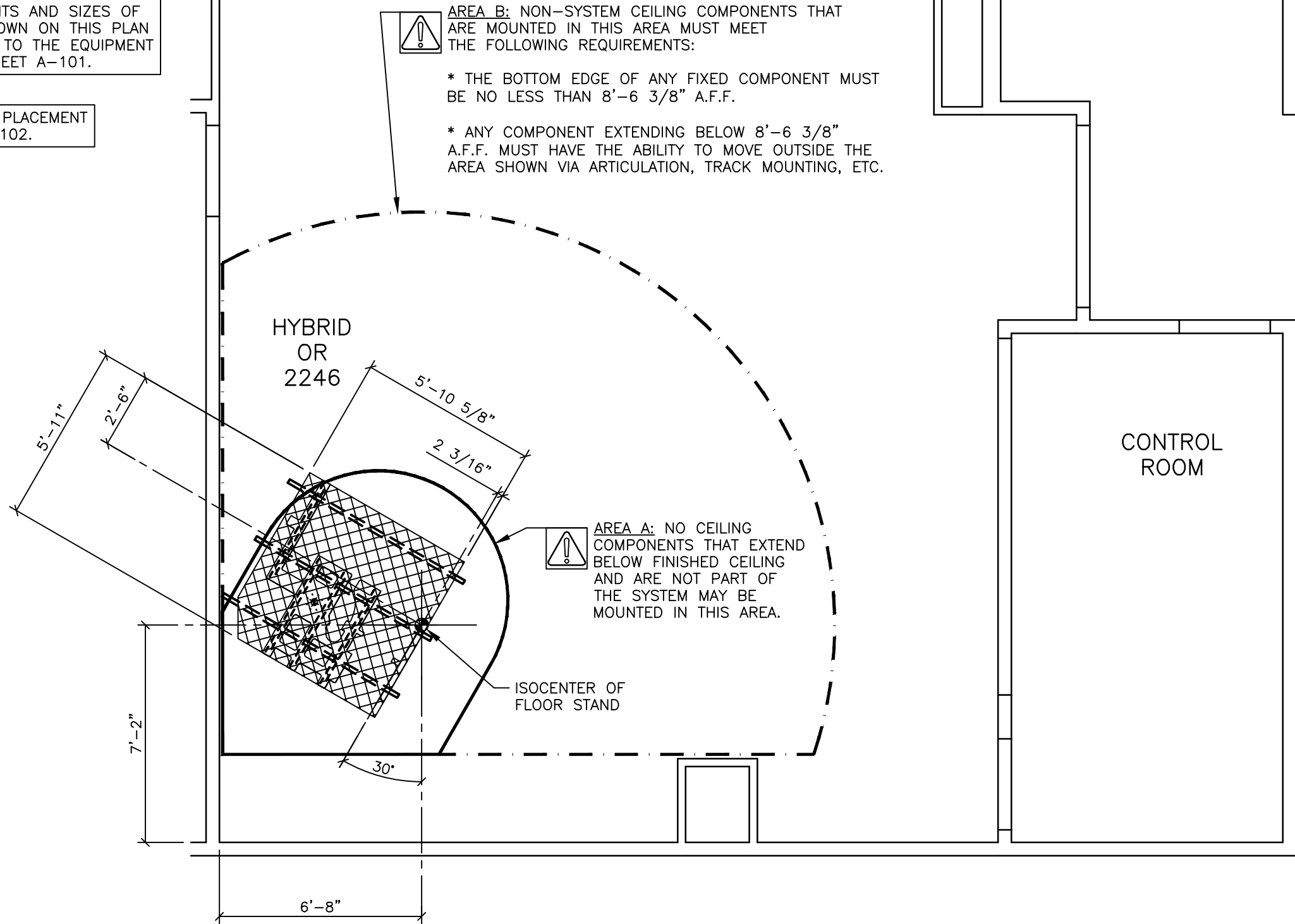
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**ATTENTION!** LIGHTING AND HVAC DUCTS HAVING THE POTENTIAL TO HEAT OR COOL SIEMENS COMPONENTS MUST NOT BE LOCATED WITHIN SIEMENS CEILING RAIL SYSTEMS AS INDICATED BY THE SHADED AREAS ON THIS PLAN. SPRINKLER HEADS MUST NOT BE LOCATED WITHIN THE SHADED 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 SERVICING 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.

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

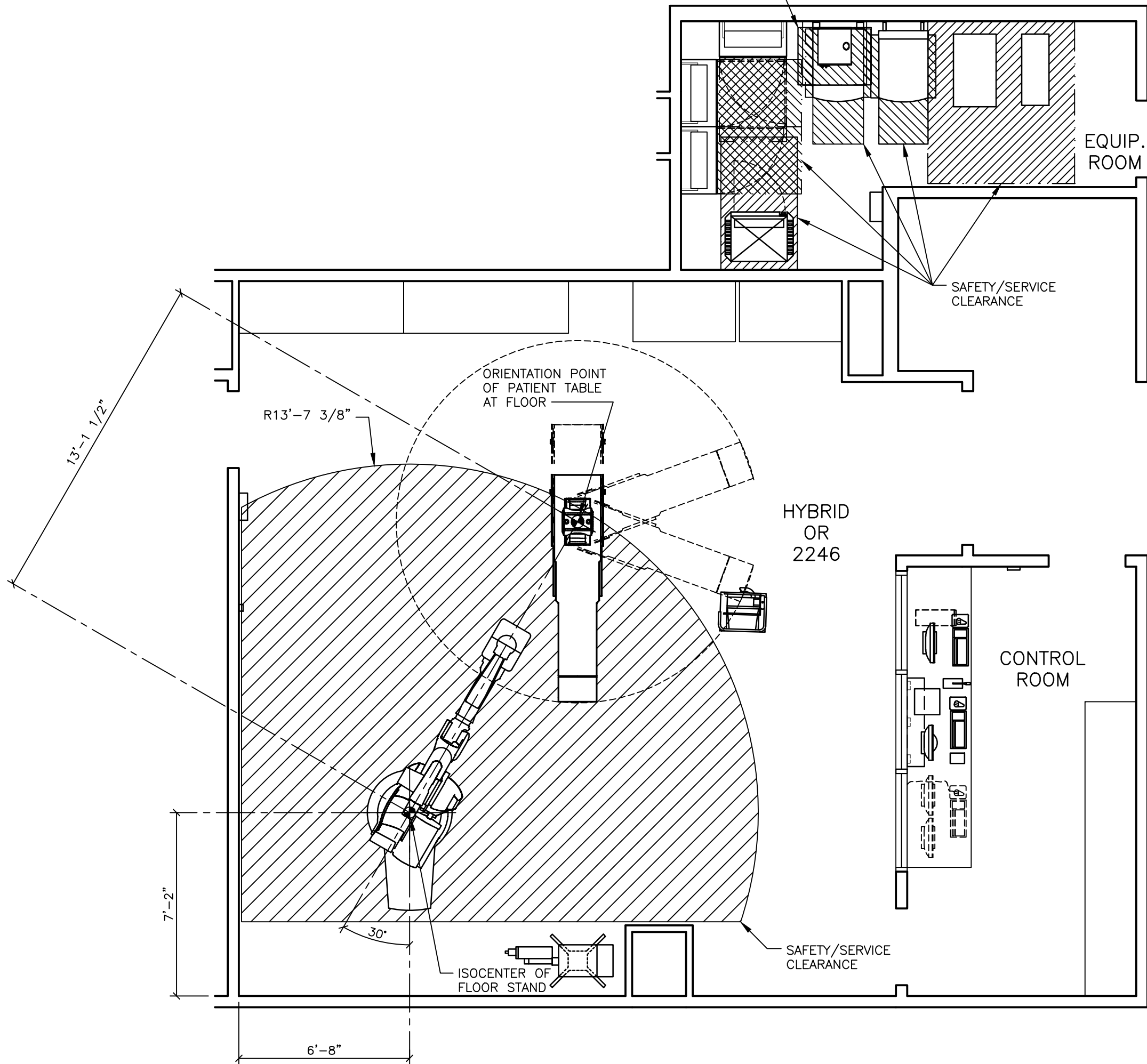
FOR UNISTRUT PLACEMENT SEE SHEET S-102.



REFLECTED CEILING PLAN

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

IMAGER SERVICE NOTE:  
UNDER NORMAL CIRCUMSTANCES, NO LATERAL DISTANCE TO THE WALL OR OTHER COMPONENTS IS REQUIRED. FOR SERVICE, THE IMAGE SYSTEM MUST BE MOVED VIA ROLLERS INTO A POSITION WHERE IT CAN BE ACCESSED FROM ALL SIDES (APPROX. 20" ON EACH SIDE).



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  
RANGE

9'-4 1/4" - 9'-6"

RECOMMENDED  
CEILING  
HEIGHT

9'-6"

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PROJECT #:  
**1502697**

SHEET:

**A-102**

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SCALE: AS NOTED REF. # 30187591

SHEET 2 OF 8 DRAWN BY: R.SUTHERS

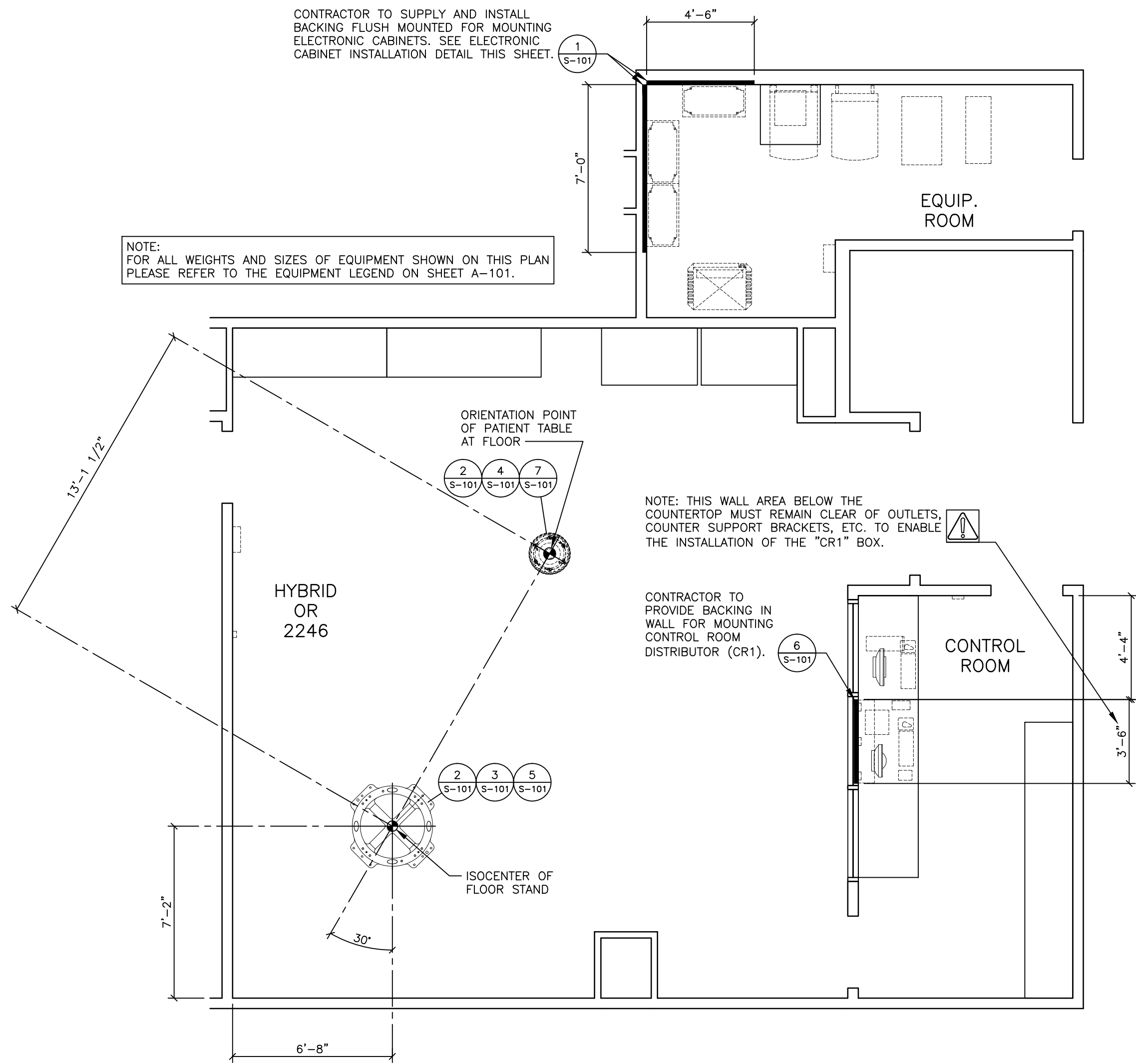
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## STRUCTURAL FLOOR PLAN

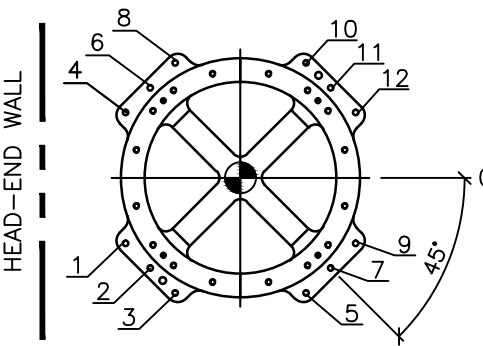
SCALE: 1/4" = 1'-0"

### FLOOR STAND PLATE

#### EFFECTIVE FORCES:

MOUNTING POINT	TENSILE FORCE (LBS.)	LATERAL FORCE (LBS.)
1	1,217	1,083
2	885	1,006
3	553	1,083
4	1,992	1,345
5	PRESSURE	1,345
6	1,992	1,385
7	PRESSURE	1,385
8	1,992	1,534
9	PRESSURE	1,534
10	1,217	1,728
11	885	1,680
12	553	1,728

#### PATIENT LEFT-SIDE WALL



### FLOOR STAND NOTES:

MAXIMUM TENSILE FORCE OCCURS AT  $\pm 45$  DEGREES.

DUE TO THE ROTATIONAL RANGE OF THE FLOOR STAND, TENSILE FORCES CAN OCCUR AT EVERY ATTACHMENT POINT OF THE MOUNTING PLATE.

MAXIMUM BENDING IN THE AREA OF THE FLOOR STAND INSTALLATION PLATE IS 3MM WHEN A VERTICAL FORCE OF 3,147 LBS. IS EXERTED.

MAX. TILTING MOMENTUM, $M_k$ :	36,141 FT-LBS.
MAX TORQUE, $M_r$ :	28,027 FT-LBS.
MAX HORIZONTAL FORCE, $F_h$ :	4,047 LBS.
MAX VERTICAL FORCE, $F_v$ :	5,395 LBS.

RESULTING TENSILE FORCE: 11,283 LBS.

### PATIENT TABLE MOUNTING PLATE

(SEE DETAIL 4, THIS SHEET)

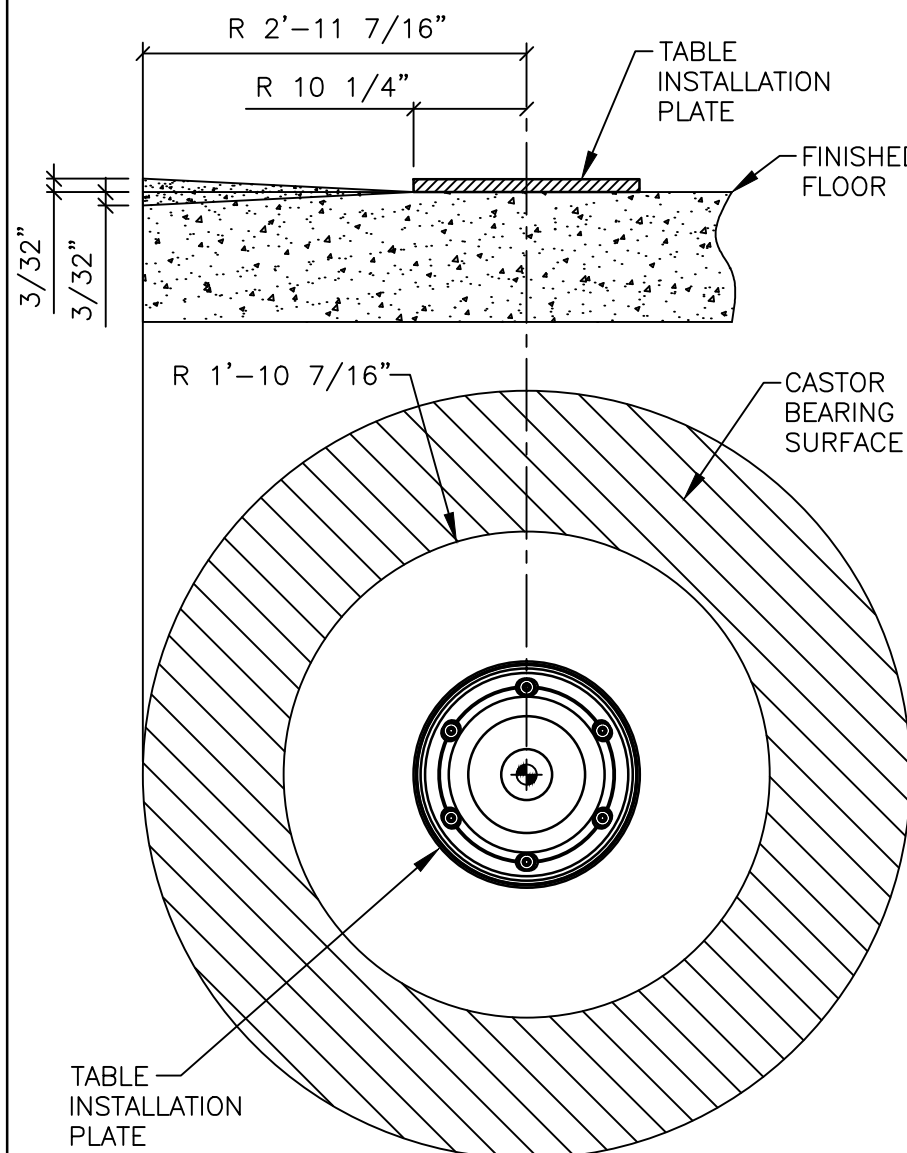
MAX. VERTICAL LOAD:	2,046 LBS.
MAX. TORQUE:	2,286 FT-LBS.
MAX. TENSILE FORCE/MOUNTING POINT:	5,620 LBS.

2

### FLOOR LOADS

SCALE: NONE

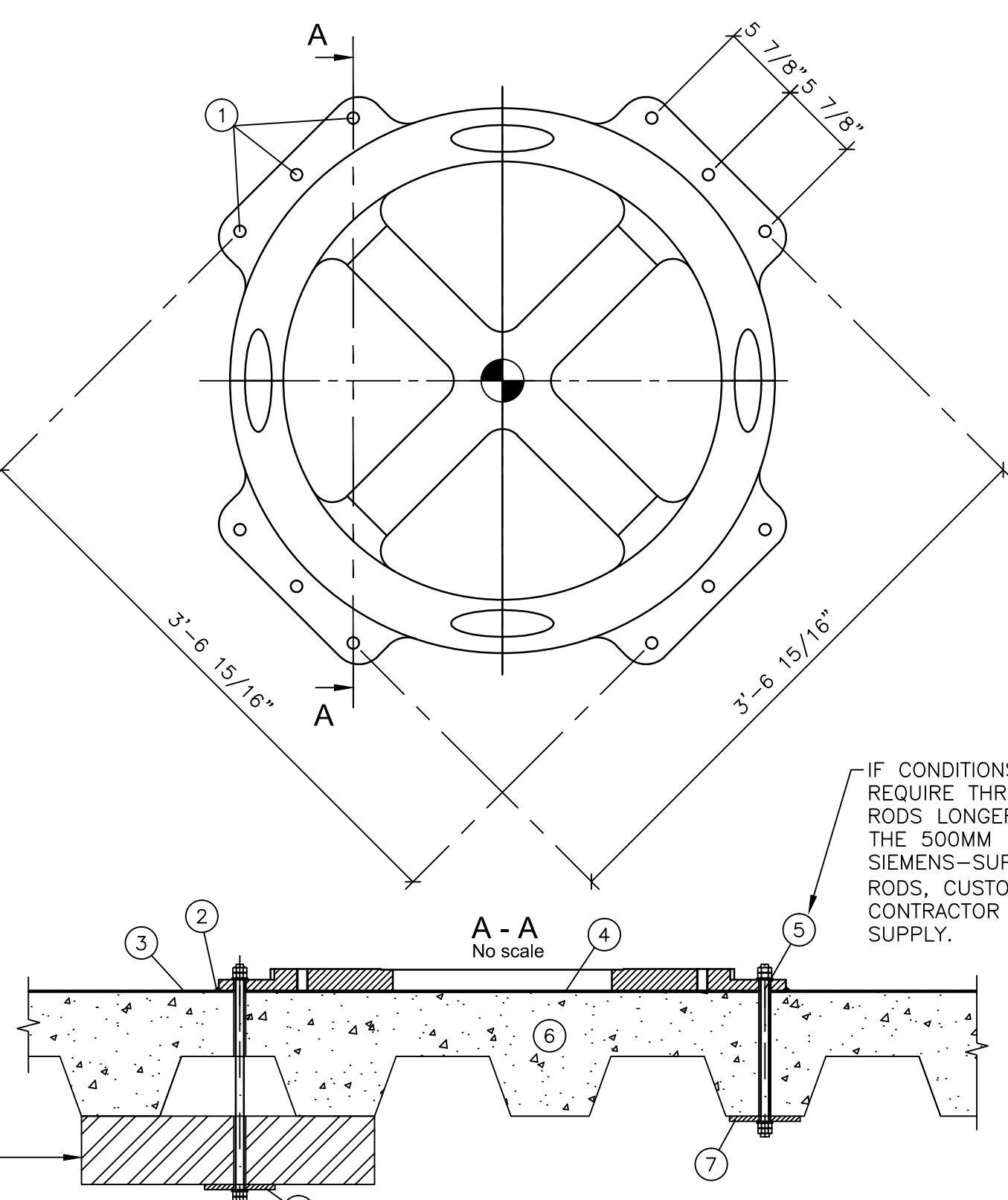
THE TOLERANCE OF THE SURROUNDING AREA (CASTOR BEARING AREA) IS MAX. 3/16" BETWEEN TWO PARALLEL LEVELS.



### 7 TABLE FLOOR LEVELNESS

SCALE: NONE

NOTE: FOR SITES WITH CORRUGATED OR WAFFLE SLABS CREATING VOIDS BETWEEN THE SLAB AND UNDER-FLOOR REINFORCING STEEL, THE VOIDS MUST BE FILLED AS REQUIRED OR THE UNDER-FLOOR STEEL BE SUFFICIENTLY STIFF TO PREVENT DEFLECTION IN THE AREA OF THE VOIDS WHEN THE THREADED ROD NUTS ARE TORQUED TO 273 FT-LBS AT EACH ANCHOR POINT. ALL UNDER-FLOOR REINFORCING MUST BE DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD.



- |  |   |
|--|---|
| 1 FASTENING OF STAND MOUNTING PLATE TO FLOOR (12 POINTS) | 5 THREADED STUDS M20X500, 8.8           |
| 2 SEAL CONTINUOUSLY WITH HYGIENIC-GRADE SILICONE         | 6 SOLID CONCRETE (MIN. C20/25 REQUIRED) |
| 3 FLOOR COVERING   | 7 FASTENING PLATE SUPPLIED BY SIEMENS * |
| 4 QUICK-POUR MORTAR                                      |   |

\* NOTE: UNDER OR IN-FLOOR REINFORCING FOR THE FLOOR STAND MOUNTING PLATE MUST BE DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD AND FABRICATED/INSTALLED BY CUSTOMER/CONTRACTOR.

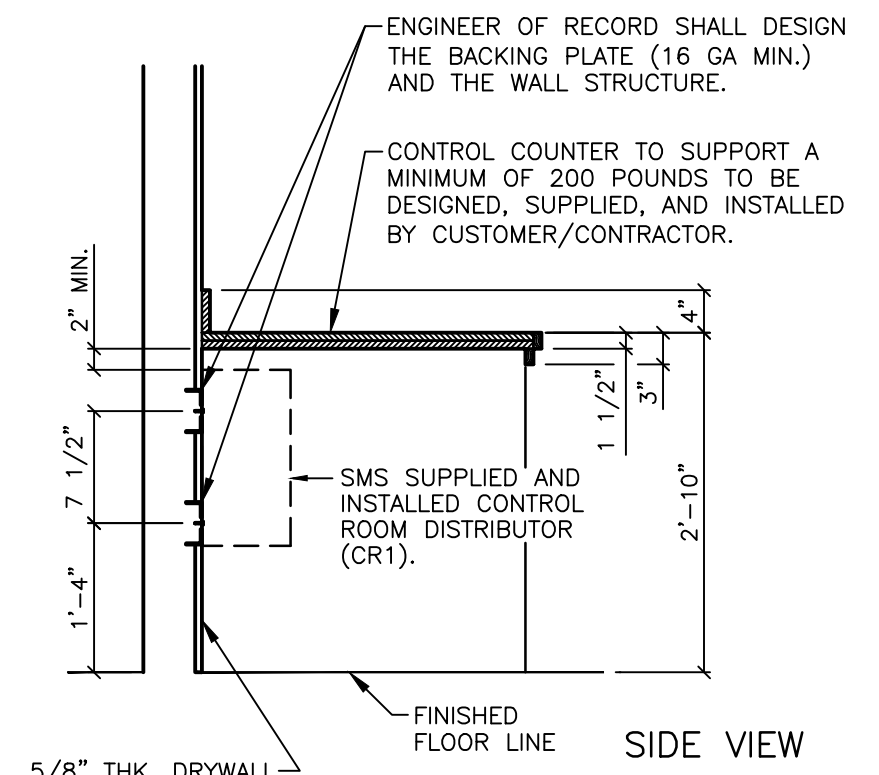
LOAD ON EACH MOUNTING POINT MAX. TENSILE FORCE SEE "STATIC FLOOR" DETAIL. FLOOR MOUNTING USING STUDS (THREADED BARS) THROUGH THE CEILING OF THE ROOM BELOW. (INCLUDED IN SHIPMENT)

### 3 THROUGH-BOLT INSTALLATION OF STAND MOUNTING PLATE

SCALE: NONE

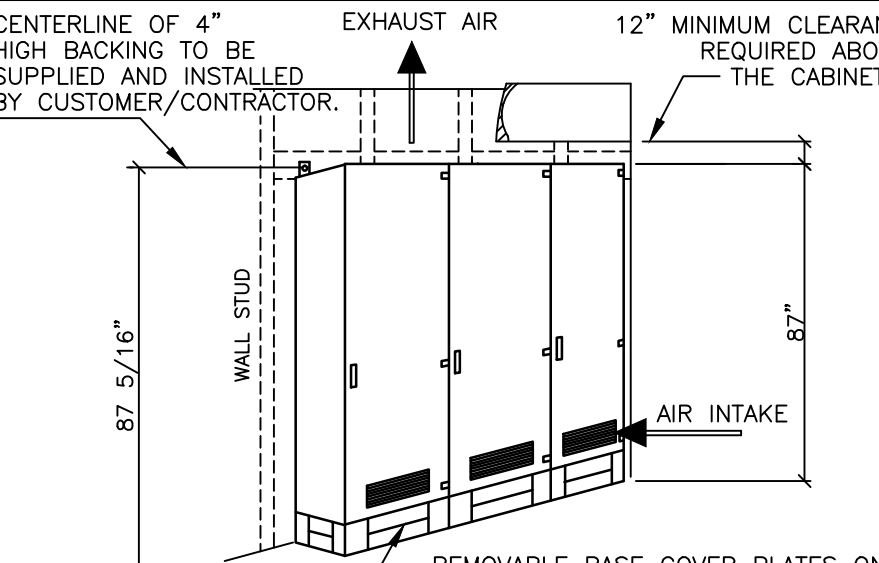
## STRUCTURAL NOTES

- 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.



### 6 TYPICAL CR1 MOUNTING

SCALE: NONE



- NOTES:
- 1) SIEMENS ELECTRONIC CABINETS SUPPLIED AND INSTALLED BY SIEMENS.
  - 2) WALL MOUNTING OF THESE CABINETS IS NECESSARY, SINCE THE ELECTRONIC ASSEMBLIES CAN BE SWUNG OUT OF THE CABINETS.
  - 3) DOORS SWING OUT ONLY AND CANNOT BE REMOVED.
  - 4) SOFFITS AND HEADERS TO BE VERIFIED BY CUSTOMER/CONTRACTOR.

### 1 ELECTRONIC CABINET INSTALLATION

SCALE: NONE

## 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.

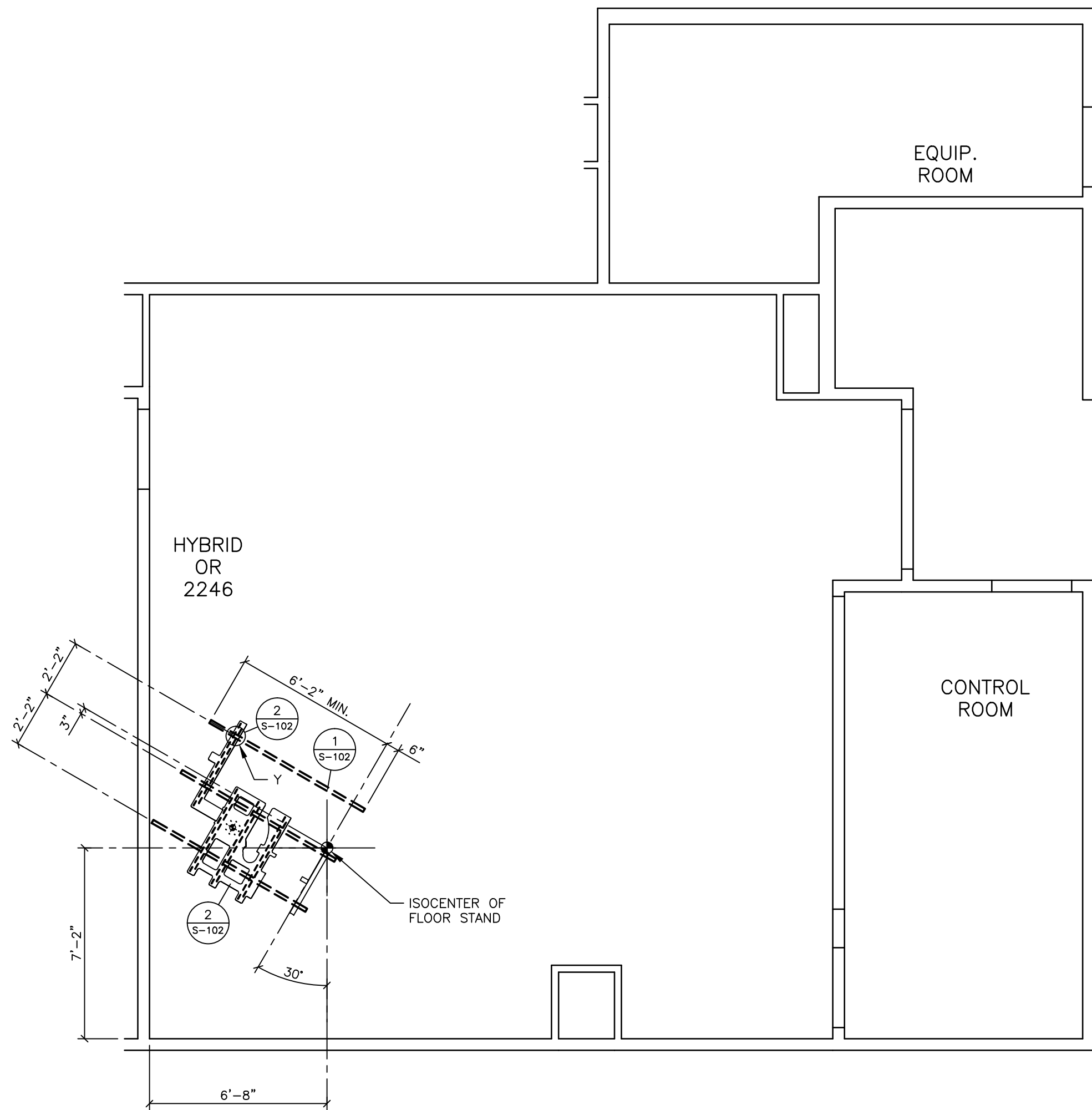
— THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

— 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.

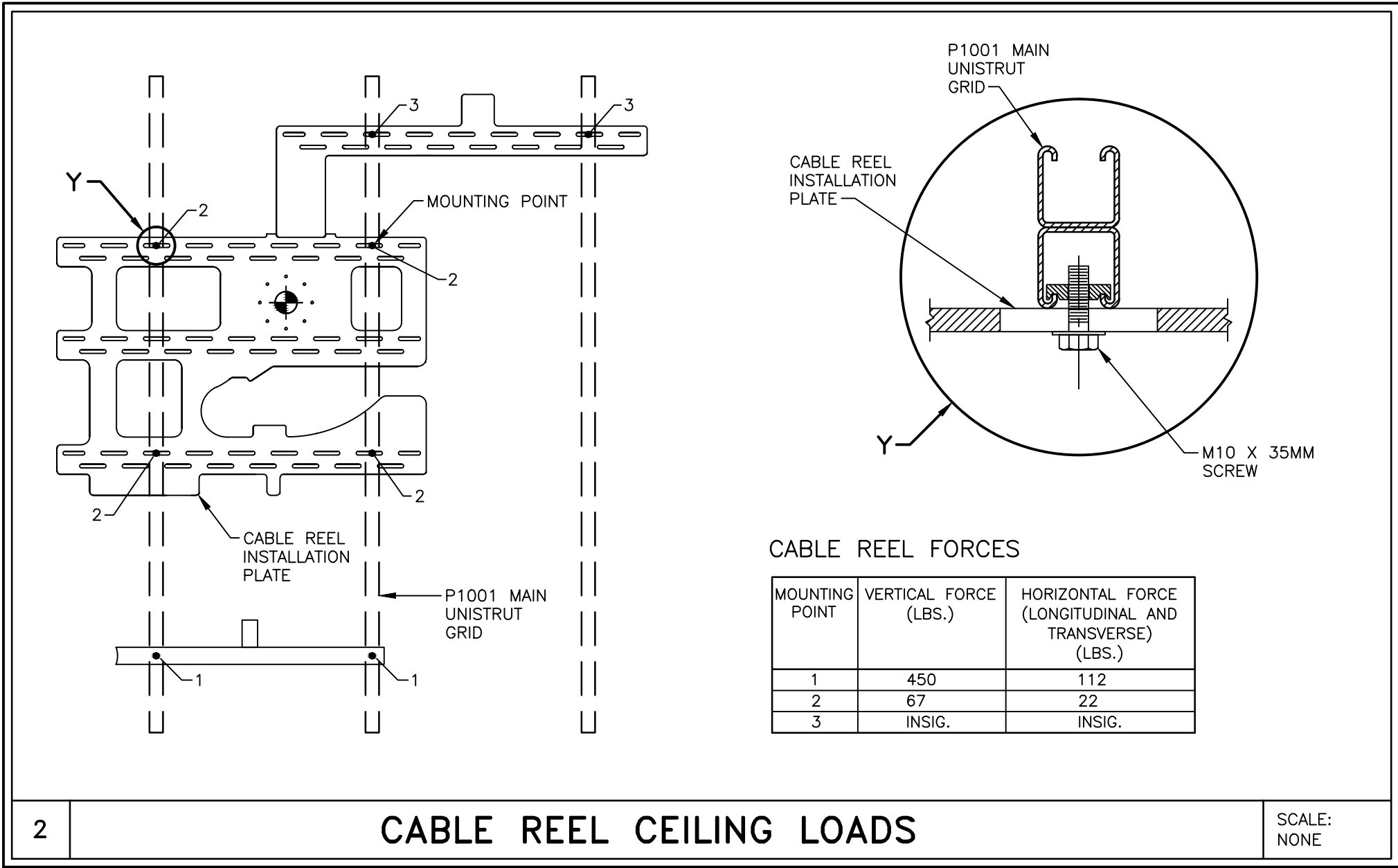
— THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

PROJECT MANAGER: JIM STANCIL TEL: (415) 278-1915 FAX: EMAIL: jim.stancil@siemens.com		<b>SIEMENS</b> <b>HEALTH CARE</b> 5800 HOLLIS STREET, EMERYVILLE, CA 94608 HYBRID OR — ARTIS ZEEGO WITH MAQUET O.R. TABLE	
PROJECT #: <b>1502697</b>		SHEET: <b>S-101</b>	
SHEET 3 OF 8		DRAWN BY: R.SUTHERS	
DATE: 01/28/16		DATE: 01/28/16	
—ISSUE BLOCK—		SCALE: AS NOTED REF. # 30187591	

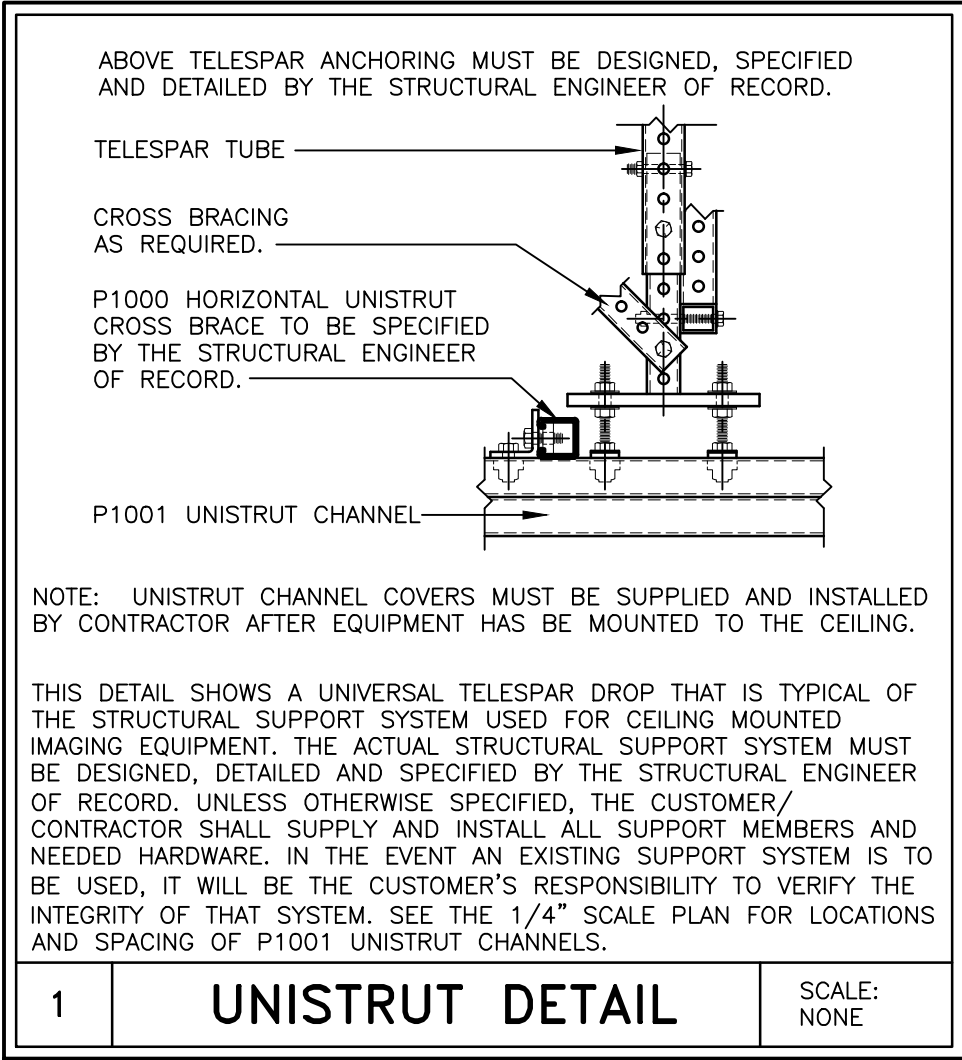


STRUCTURAL CEILING PLAN

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



CEILING PLAN LEGEND		
SUPPLIED/INSTALLED BY SIEMENS		
SYM	DESCRIPTION	DET
Y	CABLE REEL INSTALLATION PLATE MOUNTING POINT BOLTED TO UNISTRUT FRAME	2
SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR		
SYM	DESCRIPTION	DET
X	"P-1001" UNISTRUT MOUNTED FLUSH WITH FINISHED CEILING. MUST BE LEVEL WITHIN ±1/8".	1
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 RANGE	RECOMMENDED CEILING HEIGHT
9'-4 1/4" - 9'-6"	9'-6"

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.

PROJECT MANAGER: JIM STANCIL  
TEL: (415) 278-1915 EXT:  
VMAIL:  
FAX:  
EMAIL: jim.stancil@siemens.com

SIEMENS

HEALTH CARE

5800 HOLLIS STREET, EMERYVILLE, CA. 94608  
HYBRID OR — ARTIS ZEEGO WITH MAQUET O.R. TABLE

PROJECT #:  
1502697

SHEET:  
S-102

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SYMBOL

DATE

DESCRIPTION

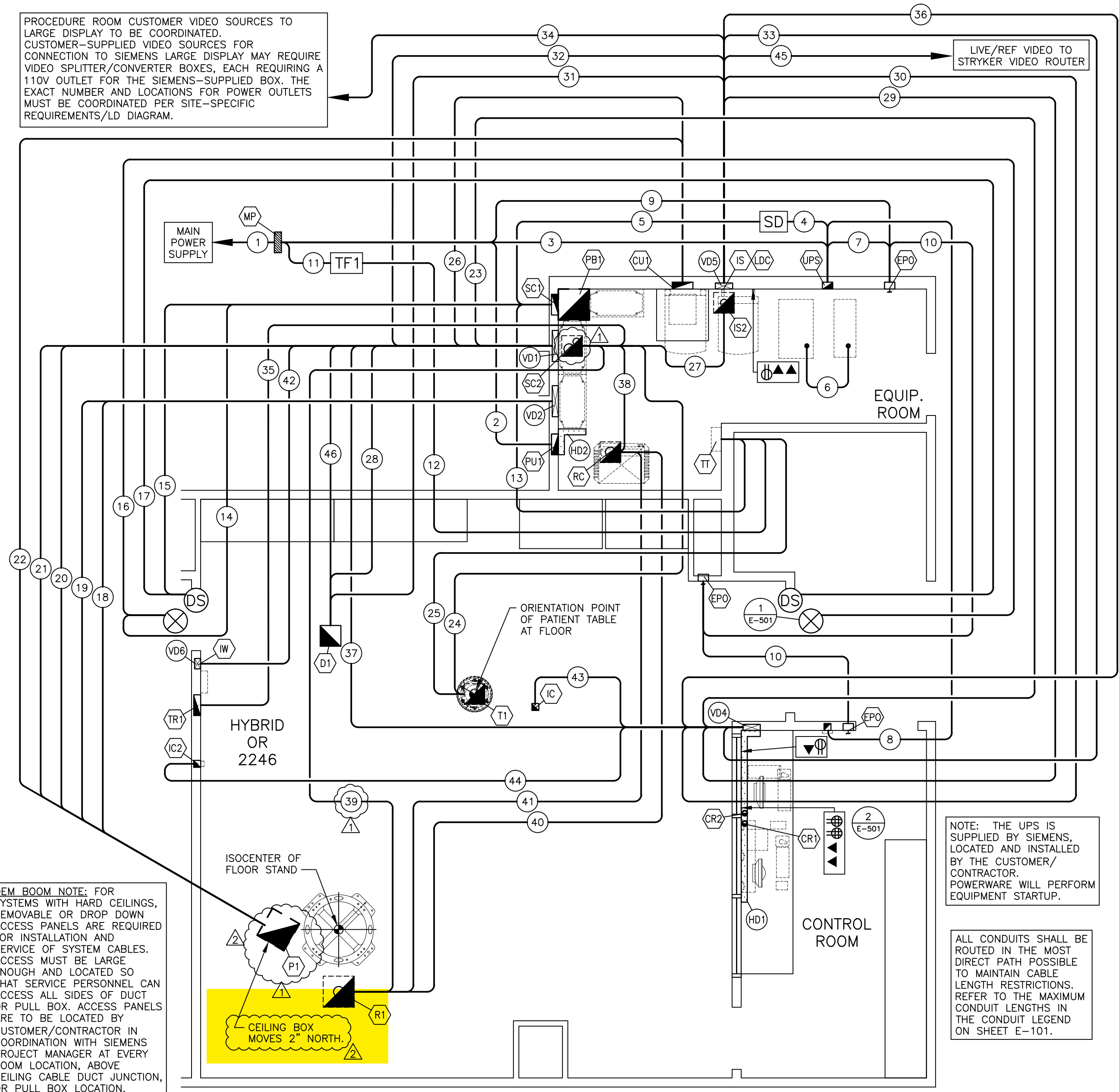
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DATE: 01/28/16

REV. 3



PROCEDURE ROOM CUSTOMER VIDEO SOURCES TO LARGE DISPLAY TO BE COORDINATED. CUSTOMER-SUPPLIED VIDEO SOURCES FOR CONNECTION TO SIEMENS LARGE DISPLAY MAY REQUIRE VIDEO SPLITTER/CONVERTER BOXES, EACH REQUIRING A 110V OUTLET FOR THE SIEMENS-SUPPLIED BOX. THE EXACT NUMBER AND LOCATIONS FOR POWER OUTLETS MUST BE COORDINATED PER SITE-SPECIFIC REQUIREMENTS/LD DIAGRAM.



DEM. ROOM NOTE: FOR SYSTEMS WITH HARD CEILINGS, 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.

NOTE: THE UPS IS SUPPLIED BY SIEMENS, LOCATED AND INSTALLED BY THE CUSTOMER/CONTRACTOR. POWERWARE WILL PERFORM EQUIPMENT STARTUP.

ALL CONDUITS SHALL BE ROUTED IN THE MOST DIRECT PATH POSSIBLE TO MAINTAIN CABLE LENGTH RESTRICTIONS. REFER TO THE MAXIMUM CONDUIT LENGTHS IN THE CONDUIT LEGEND ON SHEET E-101.

## ELECTRICAL RACEWAY PLAN

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

## CONDUIT LEGEND

SYM	SIZE	DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	REMARKS
1	EC TO SIZE	CONDUIT FROM PANEL TO "MP"	SEE "POWER SCHEDULE"
2	EC TO SIZE	CONDUIT FROM "MP" TO "PU1"	SEE "POWER SCHEDULE"
3	EC TO SIZE	CONDUIT FROM "MP" TO "UPS" WITH FLEX CONDUIT FROM UPS BOX TO TERMINATION ON UPS CABINET.	SEE "POWER SCHEDULE"
4	EC TO SIZE	CONDUIT FROM "UPS" TO "SD" WITH FLEX CONDUIT FROM UPS BOX TO TERMINATION ON OUTPUT TRANSFORMER CABINET.	SEE "POWER SCHEDULE"
5	EC TO SIZE	CONDUIT FROM "SD" TO "SC1"	SEE "POWER SCHEDULE"
6	EC TO SIZE	FLEX CONDUIT FROM UPS CABINET TO OUTPUT TRANSFORMER CABINET	SEE "POWER SCHEDULE"
7	3/4"	CONDUIT FROM "UPS" TO "EPO" WITH FLEX CONDUIT FROM UPS BOX TO TERMINATION ON UPS CABINET.	SEE "POWER SCHEDULE"
8	3/4"	CONDUIT FROM "RMP" TO "UPS" WITH FLEX CONDUIT FROM UPS BOX TO TERMINATION ON UPS CABINET.	SEE "POWER SCHEDULE"
9	3/4"	CONDUIT FROM "MP" TO "EPO"	SEE "POWER SCHEDULE"
10	EC TO SIZE	CONDUIT FROM "EPO" TO "EPO"	
11	EC TO SIZE	CONDUIT FROM "MP" TO "TF1"	SEE "POWER SCHEDULE"
12	3/4"	CONDUIT FROM "TF1" TO "T1"	SEE "POWER SCHEDULE"
13	3/4"	CONDUIT FROM "T1" TO "SC1"	SEE "POWER SCHEDULE"
14	EC TO SIZE	CONDUIT FROM "SC1" TO "WL"	
15	EC TO SIZE	CONDUIT FROM "SC1" TO "DS"	
16	EC TO SIZE	CONDUIT FROM "WL" TO "WL"	WARNING LIGHT
17	EC TO SIZE	CONDUIT FROM "DS" TO "DS"	DOOR SWITCH
18	2"	CONDUIT FROM "P1" TO "VD2" (PU1)	MAX. CONDUIT LENGTH 38'
19	(2) 3"	CONDUITS FROM "P1" TO "VD2" (PU1)	MAX. CONDUIT LENGTH 38'
20	3"	CONDUIT FROM "P1" TO "VD1" (SC1)	MAX. CONDUIT LENGTH 38'
21	2 1/2"	CONDUIT FROM "P1" TO "VD1" (SC1)	MAX. CONDUIT LENGTH 38'
22	2 1/2"	CONDUIT FROM "P1" TO "CU1" FOR LIQUID COOLING HOSES	MAX. CONDUIT LENGTH 82'
23	(2) 3"	CONDUITS FROM "VD1" (SC1) TO "VD4" (CR1)	MAX. CONDUIT LENGTH 30'
24	(3) 3/4"	CONDUIT FROM "SC2" (SC1) TO "T1" UNDER FLOOR	MAX. CONDUIT LENGTH 78'
25	3/4"	CONDUIT FROM "T1" TO "T1" UNDER FLOOR	MAX. CONDUIT LENGTH 67'
26	2"	CONDUIT FROM "VD1" (SC1) TO "CU1"	MAX. CONDUIT LENGTH 66'
27	3"	CONDUIT FROM "SC2" (SC1) TO "IS2" (IS)	MAX. CONDUIT LENGTH 10'
28	3"	CONDUIT FROM "VD1" (SC1) TO "D1"	MAX. CONDUIT LENGTH 48'
29	3"	CONDUIT FROM "VD5" (IS) TO "VD4" (CR1)	MAX. CONDUIT LENGTH 23'
30	2"	CONDUIT FROM "VD5" (IS) TO "VD4" (CR1)	MAX. CONDUIT LENGTH 23'
31	2"	CONDUIT FROM "VD5" (LDC) TO "D1"	MAX. CONDUIT LENGTH 64'
32	2"	CONDUIT FROM "VD5" (LDC) TO "VD1" (SC1)	MAX. CONDUIT LENGTH 25'
33	(2) 3"	CONDUITS FROM "VD5" (LDC) TO "VD4" (C-Room CUSTOMER LD INPUTS)	MAX. CONDUIT LENGTH 80'
34	VARIES	CONDUIT(S) FROM "VD5" (LDC) TO CUSTOMER SOURCES	MAX. CONDUIT LENGTH 100'
35	3"	CONDUIT FROM "SC2" (SC1) TO "R1" UNDER FLOOR	MAX. CONDUIT LENGTH 44'
36	2 1/2"	CONDUIT FROM "VD4" (CR2) TO "VD5" (LDC)	MAX. CONDUIT LENGTH 86'
37	2"	CONDUIT FROM "VD4" (CR2) TO "VD1" (SC1)	MAX. CONDUIT LENGTH 52'
38	(2) 4"	CONDUITS FROM "SC2" (SC1) TO "RC" UNDER FLOOR	MAX. CONDUIT LENGTH 24'
39	4"	CONDUIT FROM "SC2" (SC1) TO "R1" UNDER FLOOR	MAX. CONDUIT LENGTH 41'
40	6"	CONDUIT FROM "RC" TO "R1" UNDER FLOOR	MAX. CONDUIT LENGTH 38'
41	3"	CONDUIT FROM "RC" TO "R1" UNDER FLOOR	MAX. CONDUIT LENGTH 38'
42	(2) 3"	CONDUIT FROM "VD1" (SC1) TO "VD6" (IW) (INJECTOR WALL CONNECTION)	MAX. CONDUIT LENGTH 36'
43	3/4"	CONDUIT FROM "VD4" (CR1) TO "IC" (INTERCOM)	MAX. CONDUIT LENGTH 64'
44	3/4"	CONDUIT FROM "VD4" (CR1) TO "IC2" (INTERCOM)	MAX. CONDUIT LENGTH 64'
45	2"	CONDUIT FROM "VD5" (IS) TO "STRYKER VIDEO ROUTER" (LIVE+REF VIDEO INTERFACE TO STRYKER VIDEO ROUTER)	MAX. CONDUIT LENGTH 92'
46	2"	CONDUIT FROM "VD1" (SC1) TO "D1"	MAX. CONDUIT LENGTH 84'

## 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

## 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, DOORS, 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 CONDUIT WORK, OR WHERE SHORT OFF-SET CONNECTIONS ARE REQUIRED LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE USED. FIELD BENDS SHALL NOT BE LESS THAN AS SHOWN IN TABLE 348-10 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 THROAT 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 CABLES), 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 (I.E. ACCESS PANELS) 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. 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 INSTALL TEAM PULL SIEMENS SUPPLIED CABLES AT CUSTOMER 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 90 DEGREE ELBOW OR TEE IN WIRE 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 INSTALL TEAM PULL SIEMENS SUPPLIED CABLES AT CUSTOMER EXPENSE.
- 6) WIRING: WIRING SHALL BE INSTALLED IN METAL RACEWAY, 600 VOLT CLASS, STRANDED TYPE THIN-TINN, 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 THE CUSTOMER/ELECTRICAL CONTRACTOR.
- 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:

— 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.

CEILING  
HEIGHT  
RANGE

9'-4 1/4" - 9'-6"

RECOMMENDED  
CEILING  
HEIGHT

9'-6"

PROJECT MANAGER: JIM STANCIL  
TEL: (415) 278-1915 EXT:  
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**SIEMENS**  
**HEALTH CARE**

5800 HOLLIS STREET, EMERYVILLE, CA. 94608  
HYBRID OR - ARTIS ZEEGO WITH MAQUET O.R. TABLE

PROJECT #:

1502697

SHEET 5 OF 8

DRAWN BY: R.SUTHERS

SHEET:

E-101

04/14/16 REVISED FINALS PER "P1" OUTLET LOCATION.

01/28/16 PLANNER CORRECTIONS

01/04/16 R-101(RD) VERSION DATED 12/04/15 APPROVED BY CUSTOMER FOR FINALS

SYM DATE DESCRIPTION

— ISSUE BLOCK —

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

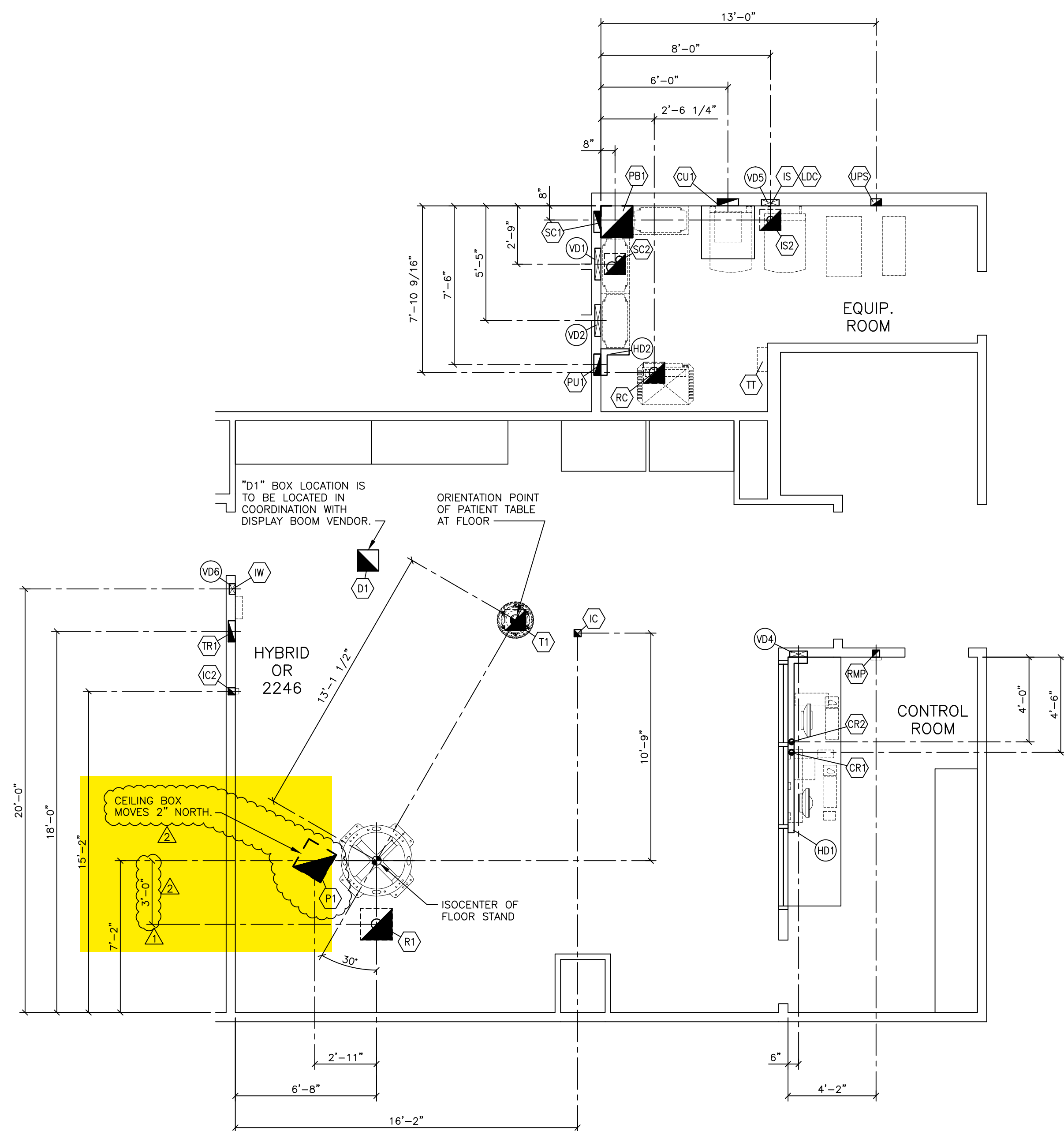
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SCALE: AS NOTED

REF. # 30187591

DATE: 01/28/16





## ELECTRICAL DIMENSION PLAN

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

ELECTRICAL LEGEND			
SYM	SIZE	DESCRIPTION	REMARKS
		SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	
①	3"ø	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	C-ROOM CUSTOMER LD INPUTS
②	3"ø	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	CONTROL ROOM DISTRIBUTOR
③	3"ø	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	SENSIS VIDEO BOX / CONTAINER
④	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER AND (1) 4"ø BUSHING IN CENTER OF REMOVABLE COVER FOR CABLE EXIT. SEE PLAN FOR LOCATION.	COOLING UNIT
⑤	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED CEILING (HARD CEILING) WITH REMOVABLE BOTTOM COVER WITH 4"ø BUSHED OPENING.	EXAM ROOM MONITORS (DCS)
⑥	---	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
⑦	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED CEILING IN LOCATION COORDINATED WITH INTERCOM INSTALLATION. PROVIDE REMOVABLE BOTTOM COVER WITH 3/4"ø BUSHED OPENING.	INTERCOM PROCEDURE RM. MIC
⑧	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT A RECOMMENDED HEIGHT OF 6' AFF.	INTERCOM PROCEDURE RM. LOUDSPEAKER
⑨	4"ø	BUSHED OPENING IN VERTICAL DUCT "VD4" COVER AT FLOOR LINE.	IMAGE SYSTEM
⑩	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 4"ø SLEEVE FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	IMAGE SYSTEM
⑪	3"ø	BUSHED OPENING IN VERTICAL DUCT "VD6" AT 3'-0" A.F.F. OF HEIGHT COORDINATED WITH THE INSTALLATION OF THE INJECTOR WALL CONNECTION BOX.	INJECTOR WALL OUTLET
⑫	---	FIXED POINT DESIGNATION, SAME OPENING AS "IS".	LARGE DISPLAY CONTAINER
⑬	---	MAIN PANEL WITH MAIN BREAKER. LOCATION DETERMINED BY CUSTOMER/CONTRACTOR. SEE "POWER SCHEDULE".	BREAKER PANEL
⑭	18"x18"	PULL BOX MOUNTED IN CORNER OF EQUIPMENT ROOM IN SHOWN LOCATION ON FINISHED FLOOR FOR CABLE ROUTING FROM SYSTEM CABINET TO CABLE STORAGE CABINET. CONNECT BOX TO PULL BOX "SC1".COORDINATE SIZE WITH SIEMENS PROJECT MANAGER.	PULL BOX
⑮	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 6"ø BUSHED OPENING.	C-ARM
⑯	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4"ø BUSHED OPENING AT BOTTOM OF COVER.	GENERATOR
⑰	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 6"ø SLEEVE FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	FLOOR STAND
⑱	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 6"ø SLEEVE FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	FLOOR STAND CABINET
⑲	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4"ø BUSHED OPENING AT BOTTOM OF COVER. CONNECT PULL BOX TO PULL BOX "PU1".	SYSTEM CABINET
⑳	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE (1) 6"ø SLEEVE AND (1) 4"ø SLEEVE FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHINGS AT FLOOR LINE.	SYSTEM CABINET
㉑	AS REQUIRED	3-PHASE (PLUS N,G) NON-FUSIBLE SERVICE DISCONNECT LOCATED AT EYE-LEVEL, WITHIN 10' OF SIEMENS SYSTEM CABINET (SC1).	SERVICE DISCONNECT (15KVA UPS)
㉒	---	PULL BOX SUPPLIED BY OEM, MOUNTED BELOW FINISHED FLOOR. PROVIDE 4"ø SLEEVE FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	TABLE
㉓	2KVA	BUCK/BOOST TRANSFORMER. SEE POWER SCHEDULE.	TRANSFORMER FOR MAQUET
㉔	12" X12"	PULL BOX MOUNTED FLUSH IN FINISHED WALL WITH REMOVABLE COVER WITH 4"ø BUSHED OPENING.	TROLLEY FOR CONTROL MODULES
㉕	---	TRANSFORMER SUPPLIED BY SIEMENS/MAQUET. SEE POWER SCHEDULE. .	MAQUET TRANSFORMER
㉖	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4"ø BUSHED OPENING.	15KVA UPS
㉗	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 "VD4" AS SHOWN.	HORIZONTAL WALL DUCT
㉘	3 1/2" X 10"	HORIZONTAL DUCT MOUNTED ON FINISHED WALL AND RIGHT SIDE OF GENERATOR CABINET AT FLOOR LINE. PROVIDE DUCT WITH REMOVABLE FRONT COVER. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS. CONNECT TO TO PULL BOX "PU1" AS SHOWN.	HORIZONTAL WALL DUCT
㉙	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 (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
㉚	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 (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
㉛	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 (SIZED BY E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS. CONNECT DUCT TO HORIZONTAL DUCT "HD1" AS SHOWN.	VERTICAL DUCT
㉜	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 (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
㉝	3 1/2" X 6"	VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX (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

CEILING HEIGHT RANGE	RECOMMENDED CEILING HEIGHT
9'-4 1/4" - 9'-6"	9'-6"

## ATTENTION:

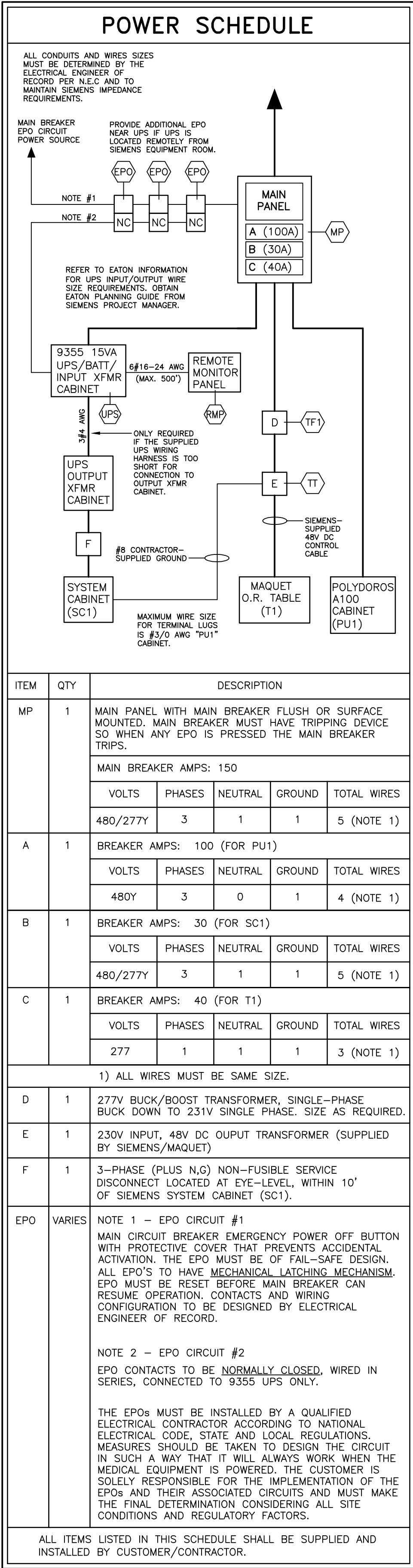
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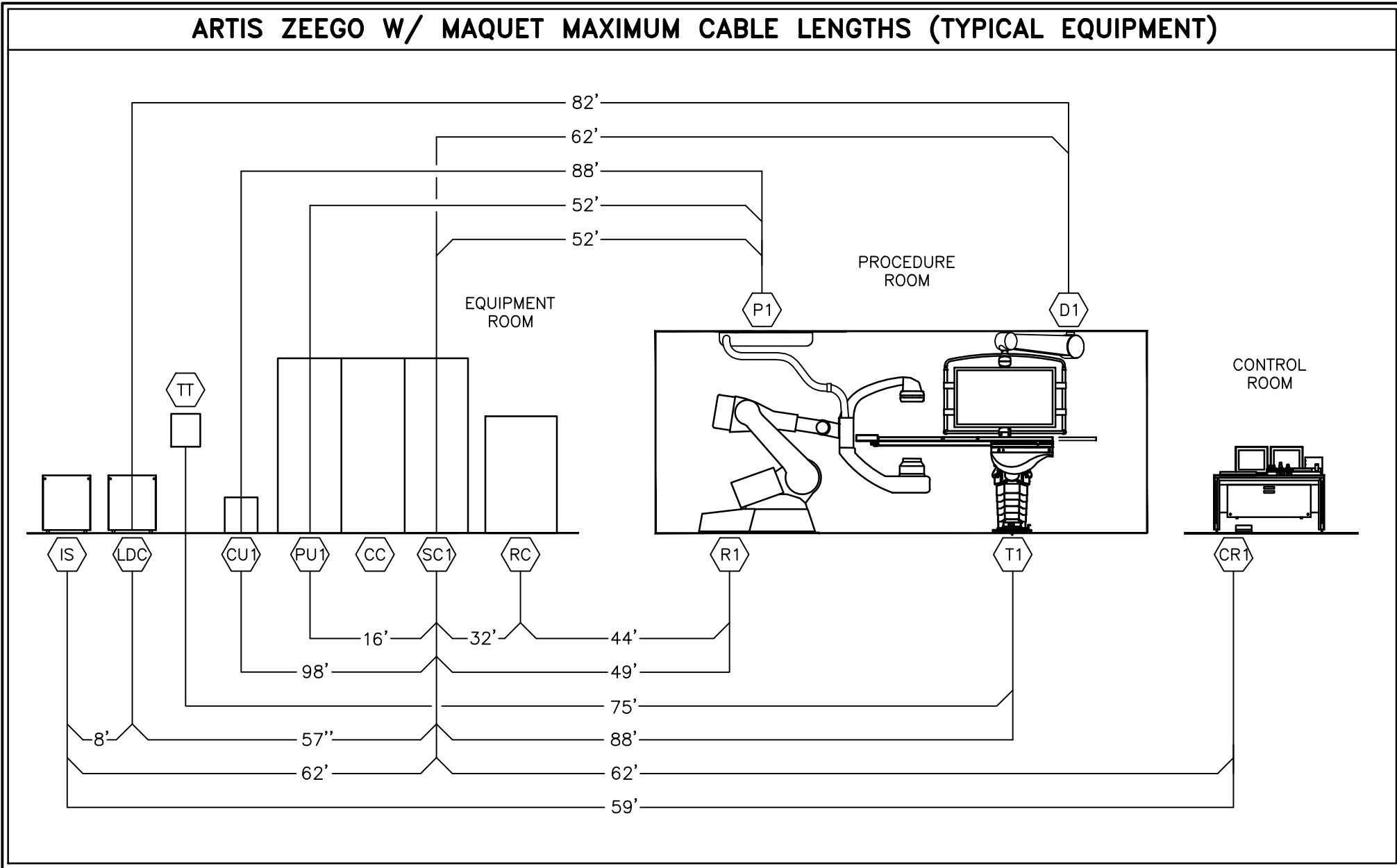
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			PROJECT MANAGER: JIM STANCOL TEL: (415) 278-1315 EXT: VMAIL: FAX: EMAIL: jim.stancol@siemens.com			<b>SIEMENS</b>		
			<b>HEALTH CARE</b>					
			5800 HOLLIS STREET, EMERYVILLE, CA. 94608 HYBRID OR - ARTIS ZEEGO WITH MAQUET O.R. TABLE					
04/14/16 REVISD FINALS PER "P1" OUTLET LOCATION.			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 #: <b>1502697</b>		SHEET: <b>E-102</b>
01/28/16 PLANNER CORRECTIONS						SHEET 6 OF 8		
01/04/16 R-101R(D) VERSION DATED 12/04/15 APPROVED BY CUSTOMER FOR FINALS						DRAWN BY: R.SUTHERS		
SYM DATE DESCRIPTION			SCALE: AS NOTED REF. #: 30187591			DATE: 01/28/16		
-ISSUE BLOCK-								



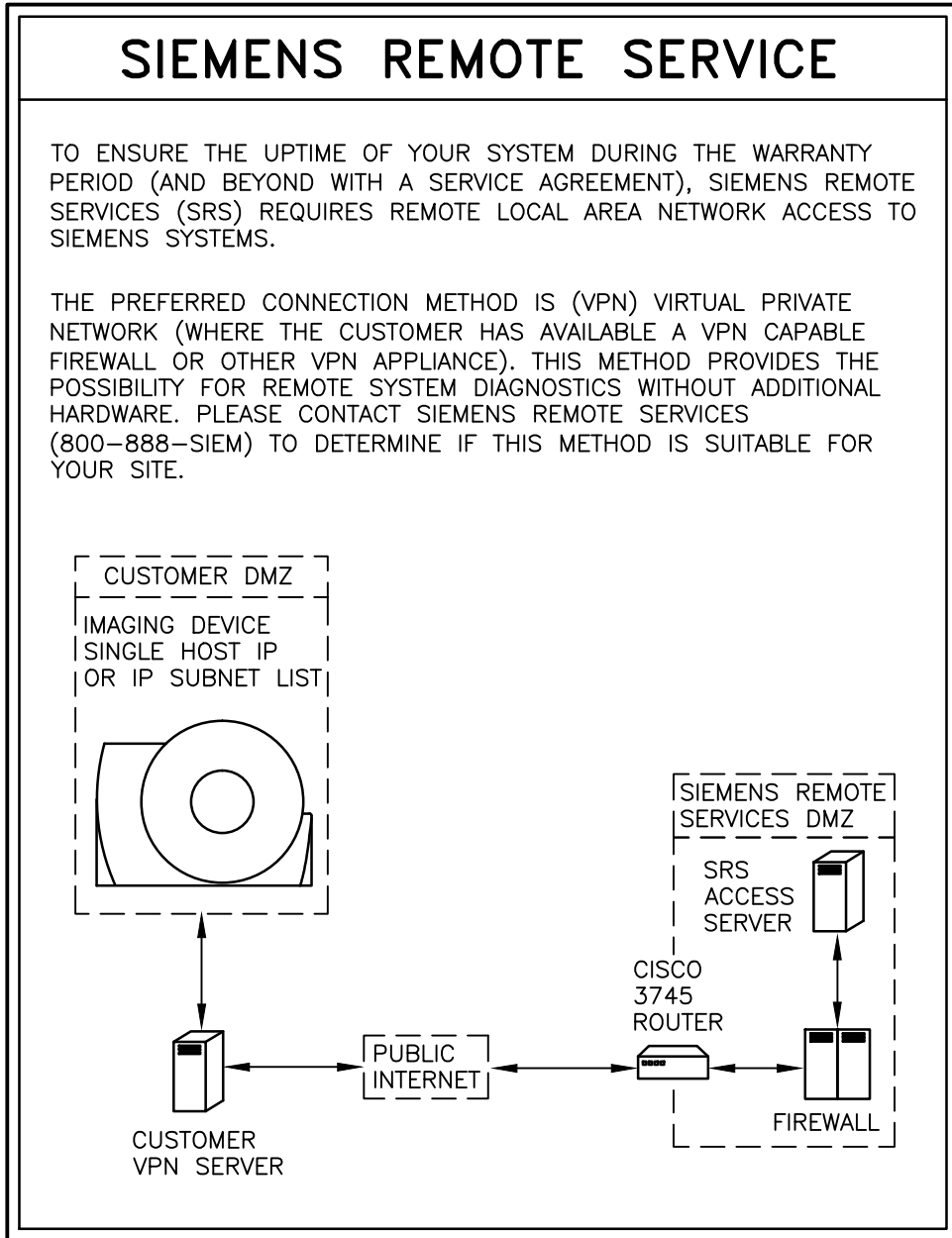
POWER REQUIREMENTS	
POLYDOROS-M / POLYDOROS A100 GENERATOR (PU1):	480V, 3-PHASE, 162 KVA, 100A, 60 Hz
SYSTEM CONTROL CABINET (SC1):	480V, 3-PHASE, 17.2 KVA, 30A, 60 Hz.



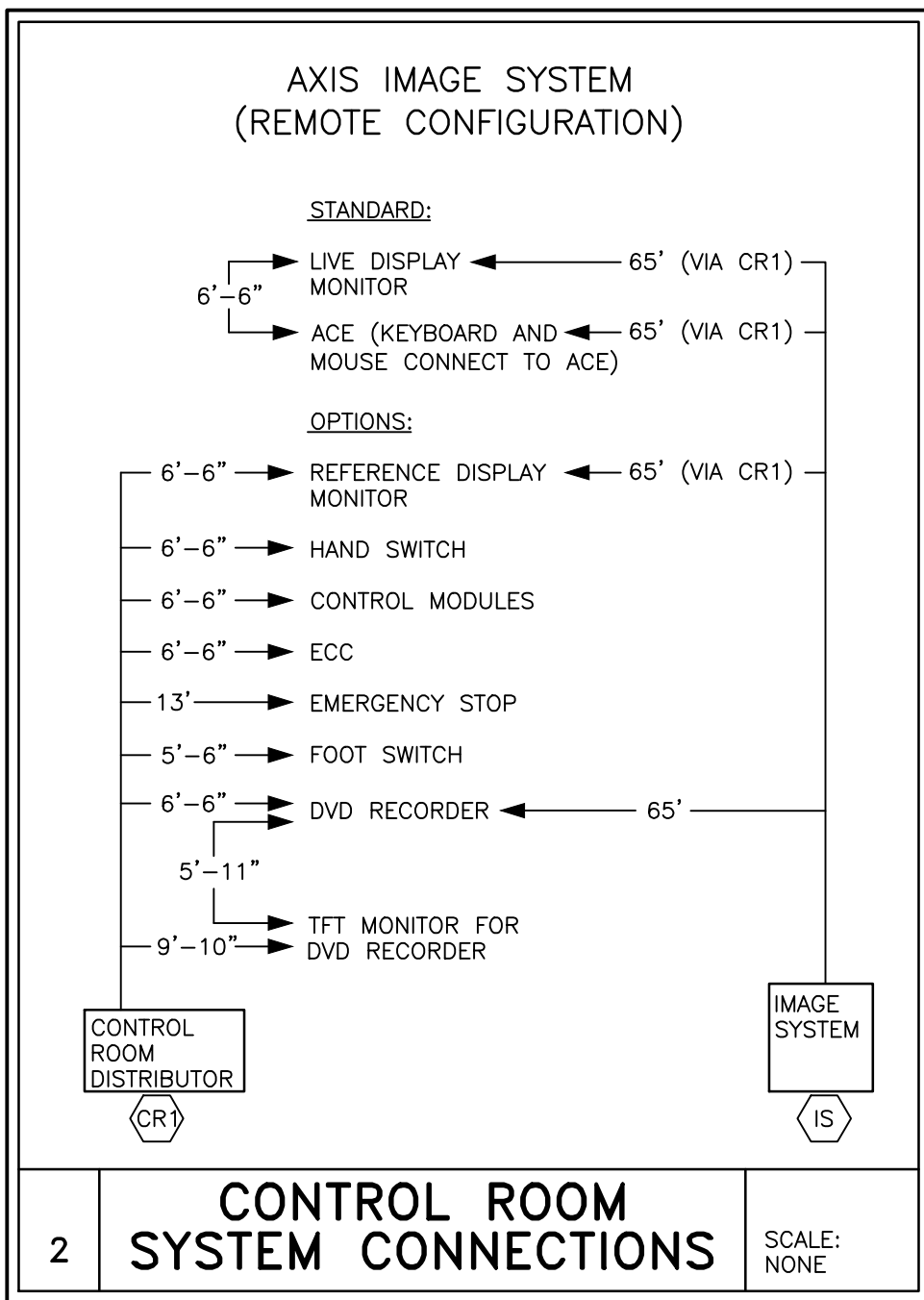
SYSTEM POWER SUPPLY REQUIREMENTS	
WIRING SYSTEM:	480Y/277V, 3 PHASE, 5-WIRE, 60 HZ.
MINIMUM POWER SUPPLY:	225 KVA DISTRIBUTION XFMR, LESS THAN OR EQUAL TO 3% IMPEDANCE
X-RAY GENERATOR MOMENTARY RATING: (RADIOGRAPHIC EXPOSURE)	162 KVA
X-RAY GENERATOR LONG-TIME RATING: (FLUOROSCOPY)	8 KVA
LINE IMPEDANCE	≤ 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.	

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.	



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	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	UPS	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
UPS	4	SD	ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND	SEE "POWER SCHEDULE"
SD	5,SC1,PB1	SC1	ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND (MAX #6 AWG)	SEE "POWER SCHEDULE"
UPS	6	XFMR	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
UPS	7	EPO	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
RMP	8	UPS	6#16-24 UP TO 500'	SEE "POWER SCHEDULE"
MP	9	EPO	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
EPO	10	EPO	4#12, PLUS GROUND	EMERGENCY POWER
MP	11	TF1	EC TO SIZE	SEE "POWER SCHEDULE"
TF1	12	TT	EC TO SIZE	SEE "POWER SCHEDULE"
TT	13,SC1,PB1	SC1	#8 GROUND	SEE "POWER SCHEDULE"
SC1	PB1,SC1,14	WL	14-18 AWG	SEE "LIGHTING DETAIL" SHEET E-501
SC1	PB1,SC1,15	DS	3#12, PLUS GROUND	DOOR SWITCH
WL	16	WL	3#12, PLUS GROUND	WARNING LIGHT
DS	17	DS	3#12, PLUS GROUND	DOOR SWITCH

SIEMENS SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
P1	18,VD2	PU1		MAXIMUM LENGTH 52'
P1	19,VD2	PU1	(2) HIGH VOLTAGE CABLES	MAXIMUM LENGTH 52'
P1	20,VD1	SC1		MAXIMUM LENGTH 52'
P1	21,VD1	SC1		MAXIMUM LENGTH 52'
P1	22	CU1	LIQUID COOLING HOSES	MAXIMUM LENGTH 88'
SC1	VD1,23,VD4,HD1	CR1	FOR CONTROL ROOM OPTIONS (CONTROL MODULES, FOOT SWITCH, DISPLAY, ECC)	MAXIMUM LENGTH 62'
SC1	SC2,24	T1		MAXIMUM LENGTH 88'
T1	25	TT		MAXIMUM LENGTH 75'
SC1	VD1,26	CU1		MAXIMUM LENGTH 98'
SC1	UNDER CABINETS	PU1		MAXIMUM LENGTH 16'
SC1	SC2,27,IS2	IS		MAXIMUM LENGTH 26'
SC1	VD1,28	D1	USE WITH ANY DCS	MAXIMUM LENGTH 62'
IS	VD5,29,VD4,HD1	CR1		MAXIMUM LENGTH 59'
IS	VD5,30,VD4,HD1	CR1		MAXIMUM LENGTH 59'
LDC	VD5,31	D1	DCS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 82'
LDC	VD5,32,VD1	SC1	DCS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 57'
LDC	VD5	IS	DCS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 8'
LDC	VD5,33,VD4	CLD	CUSTOMER LD INPUTS IN CONTROL ROOM	MAXIMUM LENGTH 118'
LDC	VD5,34	CUSTOMER SOURCES	CUSTOMER LD INPUTS IN PROCEDURE ROOM	MAXIMUM LENGTH 118'
SC1	SC2,35	TR1	TROLLEY FOR CONTROL MODULES	MAXIMUM LENGTH 52'
CR2	HD1,VD4,36,VD5	LDC		MAXIMUM LENGTH 121'
CR2	HD1,VD4,37,VD1	SC1		MAXIMUM LENGTH 88'
SC1	SC2,38	RC		MAXIMUM LENGTH 32'
SC1	SC2,39	R1		MAXIMUM LENGTH 49'
RC	40	R1		MAXIMUM LENGTH 44'
RC	41	R1		MAXIMUM LENGTH 44'
SC1	VD1,42,VD6	IW	INJECTOR WALL CONNECTION	MAXIMUM LENGTH 62'
CR1	HD1,VD4,43	IC	INTERCOM PROCEDURE ROOM MICROPHONE	MAXIMUM LENGTH 82'
CR1	HD1,VD4,44	IC2	INTERCOM PROCEDURE ROOM LOUDSPEAKER	MAXIMUM LENGTH 82'
IS	VD5,45	CUSTOMER MONITOR	LIVE+REF VIDEO INTERFACE TO STRYKER VIDEO ROUTER	MAXIMUM LENGTH 110'
SC1	VD1,46	D1	RADIATION ON LIGHT	MAXIMUM LENGTH 98'

		PROJECT MANAGER: JIM STANCI TELL: (415) 278-1915 EXT: FAX: EMAIL: jim.stanci@siemens.com	
		<b>SIEMENS HEALTH CARE</b>	
		5800 HOLLIS STREET, EMERYVILLE, CA. 94608 HYBRID OR - ARTIS ZEEGO WITH MAQUET O.R. TABLE	
		PROJECT #:	SHEET:
		1502697	E-501
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		ALL RIGHTS ARE RESERVED.	
		SCALE: AS NOTED	REF. # 30187591
		DATE: 01/28/16	
		SHEET 7 OF 8	DRAWN BY: R.SUTHERS

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.



