

YSIO / YSIO MAX SYSTEM



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Typical Drawing #: 08010

SIEMENS
SIEMENS MEDICAL SOLUTIONS

51 Valley Stream Parkway
Malvern, PA 19355
www.usa.siemens.com/medical

YSIO SYSTEM TECHNICAL DATA

TRANSPORTING INFORMATION	
CEILING TRANSVERSE BRIDGE (3M)	SIZE: 126"L x 32"W x 10"H WEIGHT: 419 LBS.
CEILING TRANSVERSE BRIDGE (4M)	SIZE: 174"L x 32"W x 10"H WEIGHT: 512 LBS.
X-RAY TUBE SUPPORT FULLY AUTOMATED (WITHOUT CARRIAGE)	SIZE: 67"L x 41"W x 52"H WEIGHT: 847 LBS.
X-RAY TUBE SUPPORT FULLY SYNCHRONIZED (WITHOUT CARRIAGE)	SIZE: 67"L x 41"W x 52"H WEIGHT: 827 LBS.
TABLE	SIZE: 63"L x 35"W x 33"H WEIGHT: 1,039 LBS.
FIXED DETECTOR WALL STAND (WITH PACKING AND CRATE TOP)	SIZE: 92"L x 35"W x 42"H WEIGHT: 865 LBS.
MOBILE DETECTOR WALL STAND (WITH PACKING AND CRATE TOP)	SIZE: 92"L x 35"W x 42"H WEIGHT: 898 LBS.
MINIMUM DOOR OPENING:	37"
MINIMUM CORRIDOR WIDTH:	6'-11"

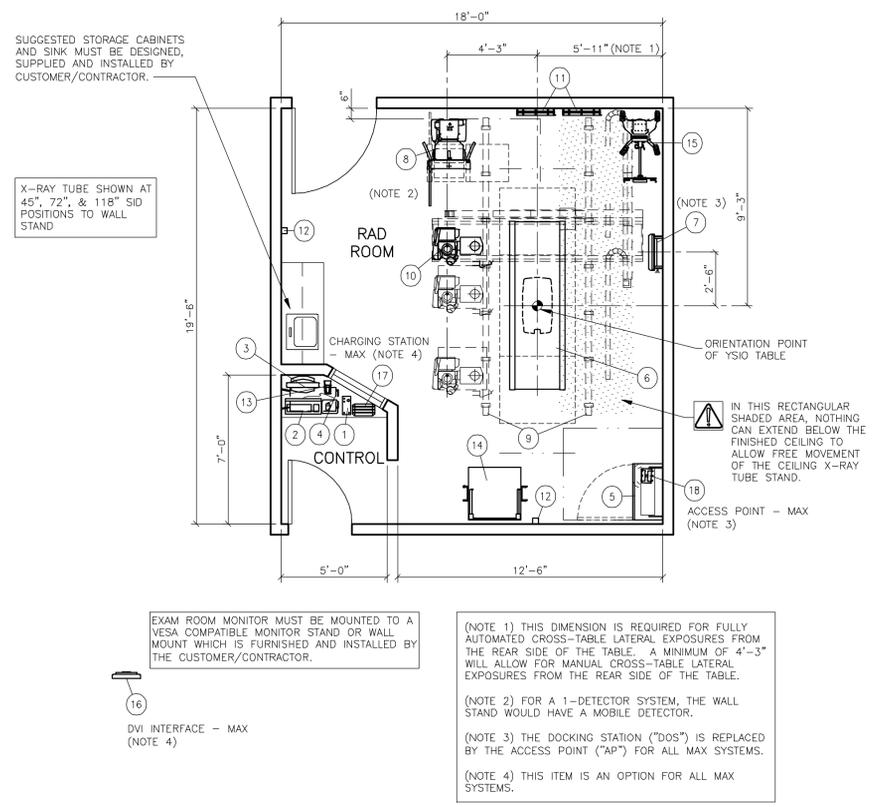
ENVIRONMENTAL CONDITIONS		
	IN OPERATION	TRANSPORT
PERMISSIBLE AMBIENT TEMPERATURE	65°F to 82°F	-4°F to 131°F
PERMISSIBLE RELATIVE HUMIDITY	20 to 75%	10 to 95%

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	CONTROL ROOM MODULE	⊖	2	-	4 3/4	10 1/16	3 3/16	ON CUSTOMER'S COUNTER
2	IMAGING SYSTEM - KEYBOARD AND MOUSE	⊖	-	-	-	-	-	ON CUSTOMER'S COUNTER
3	FLAT SCREEN CONTROL ROOM DISPLAY	⊖	-	-	-	-	-	ON CUSTOMER'S COUNTER
4	IMAGING SYSTEM CONTAINER (UNDER COUNTER)	⊖	110	1,468	17 3/8"	32 1/2"	27"	*INCLUDES REQUIRED CLEARANCES.
5	POLYDOROS R80 (80 KW) GENERATOR CABINET	⊖	944	2,048**	31 1/2	17 1/8	86 3/4	** 1,195 IN STANDBY MODE
6	YSIO TABLE WITH MOBILE DETECTOR	⊖	970	2,560	94 13/16	31 1/2	**	**20 1/4" TO 37 9/16"
7	(*) DOCKING STATION (WALL MOUNTED)	⊖	40	256	20 3/8	7 13/16	16 1/4	WITHIN 13 FT. OF TABLE
8	YSIO WALL STAND WITH FIXED DETECTOR (RIGHT LOADING GRID)	⊖	551	751	30	36"A	83	*A - MAX. IN HORIZONTAL POSITION
9	YSIO CEILING RAILS FOR X-RAY TUBE SUSPENSION	⊖	59	-	167 3/8	3	3 1/2	SIZE AND WEIGHT PER RAIL
10	3M FULLY AUTOMATED BRIDGE & X-RAY TUBE STAND	⊖	803	3,072*B	119 1/4	39	4	*B 171 IN STANDBY MODE
11	GRID HOLDER (WALL MOUNTED)	⊖	22	-	21 11/16	4	16 9/16	SUGGESTED LOCATION
12	EMERGENCY MECHANICAL STOP SWITCH (TWO PROVIDED)	⊖	-	-	3 3/8	3 3/8	4 1/4	ONLY WITH FULLY AUTOMATED SYSTEM
13	REMOTE CONTROL CHARGING STATION	⊖	-	-	4 1/8	7 1/4	4	ONLY WITH FULLY AUTOMATED SYSTEM
14	ORTHO SUPPORT (FOR ORTHO OPTION)	⊖	396	-	36	29 1/2	79 1/4	FOR ORTHO OPTION
15	MOBILE DETECTOR HOLDER ON WHEELS (OPTION)	⊖	121	-	24 1/2	40 3/16	70 1/2	ROLL AROUND LATERAL HOLDER
16	(MAX) DVI INTERFACE FOR EXAM ROOM DISPLAY (OPTION)	⊖	-	-	-	-	-	CUSTOMER PROVIDES MONITOR AND VESA MOUNT
17	(MAX) CHARGING STATION FOR MAX DETECTORS (OPTION)	⊖	-	-	-	-	-	ON CUSTOMER'S COUNTER
18	(MAX) ACCESS POINT (TOP OF GENERATOR)	⊖	4	-	8	5.5"A	3"B	*A 12 1/4", *B 9" INCLUDING ANTENNAE
⊖	(*) - THIS ITEM IS ELIMINATED FOR ALL MAX SYSTEMS (MAX) - ITEM ADDED FOR MAX SYSTEMS ONLY							

ARCHITECTURAL NOTES

- 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 ENCRUSH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (E.G. PIPE, CHASES, VENTILATION DUCTS, CASEWORK, AND SPOFFS, 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.
- 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 COMPLETE 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.
- THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- 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.
- ALL DIMENSIONS SHOWN ARE TAKEN FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- 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.
- 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.
- THE CUSTOMER SHALL VERIFY WITH SMS PROJECT MANAGER FINAL INSTALLATION DRAWINGS THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (E.G. 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.).
- 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.



ROOM MEASUREMENTS

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

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.

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.

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
0.15mT (1.5 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

SIEMENS REMOTE SERVICES (SRS)

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

SRS REQUIRES ONE OF THE FOLLOWING CONNECTION METHODS:

(PREFERRED) VPN CONNECTION

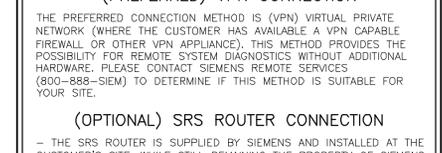
THE PREFERRED CONNECTION METHOD IS (VPN) VIRTUAL PRIVATE NETWORK (WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE). THIS METHOD PROVIDES THE POSSIBILITY FOR REMOTE SYSTEM DIAGNOSTICS WITHOUT ADDITIONAL HARDWARE. PLEASE CONTACT SIEMENS REMOTE SERVICES (800-888-SIEM) TO DETERMINE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

(OPTIONAL) SRS ROUTER CONNECTION

- THE SRS ROUTER IS SUPPLIED BY SIEMENS AND INSTALLED AT THE CUSTOMER'S SITE, WHILE STILL REMAINING THE PROPERTY OF SIEMENS. THE CUSTOMER'S NETWORK ADMINISTRATOR AND SIEMENS REMOTE SERVICES SHALL DETERMINE THE TYPE AND LOCATION OF THE SRS ROUTER REQUIRED.

- THE SRS ROUTER IS CONNECTED TO AN ANALOG MODEM THAT IS SUPPLIED BY SIEMENS, WHICH THEN IN TURN IS CONNECTED TO AN ANALOG PHONE LINE THAT IS SUPPLIED BY THE CUSTOMER. ONE SRS ROUTER ALLOWS REMOTE DIAGNOSTICS TO MULTIPLE MEDICAL SYSTEMS.

- THE SRS ROUTER SHOULD BE INSTALLED IN A SECURE LOCATION (CUSTOMER'S NETWORK COMPUTER ROOM) THAT HAS LIMITED ACCESS. IT CAN BE LOCATED ON A SHELF, TABLE, OR IN A CABINET. THE CONNECTION CABLES (WITH INDICATED LENGTHS BELOW) ARE INCLUDED WITH DELIVERY.



- NOTE: ALL POWER OUTLETS ARE SUPPLIED/INSTALLED BY CUSTOMER.
- ETHERNET SWITCH OR HUB, SUPPLIED BY CUSTOMER
 - SRS ROUTER, SUPPLIED BY SIEMENS (SIZE: 11.2"W X 8.7"D X 5.5"H, WEIGHT: 2 LBS.)
 - ANALOG MODEM, SUPPLIED BY SIEMENS
 - ANALOG PHONE LINE, SUPPLIED BY CUSTOMER
- * OPTIONAL SWITCH AND CABLES ARE NOT INCLUDED, BUT CAN BE ORDERED FROM SIEMENS.

WIRELESS DETECTOR CONNECTION

OPERATION OF THE WIRELESS DETECTOR CAN BE AFFECTED BY OTHER WLAN DEVICES IN THE VICINITY OF THIS INSTALLATION. TO AVOID ANY CONFLICTS, THE CUSTOMER MUST PROVIDE A LIST OF EXISTING WLAN CHANNELS (FREQUENCIES) OR THE SPECIFIC CHANNEL (FREQUENCY) THEY DESIRE TO BE USED FOR THE WIRELESS DETECTOR.

THE WIRELESS CONNECTION IS ENCRYPTED (WPA2) AND IS BASED ON TWO WLAN STANDARDS, WITHIN WHICH SEVERAL CHANNELS (FREQUENCIES) ARE AVAILABLE:

- 11G STANDARD - OPERATES AT 2.5 GHz
- 11A STANDARD - OPERATES AT 5 AND 6 GHz

THE STANDARD (11G OR 11A) CAN BE SET BY SIEMENS SERVICE VIA THE SERVICE SOFTWARE INSTALLED ON THE IMAGING SYSTEM.

THE WIRELESS CONNECTION IS ONLY USED TO TRANSFER DATA BETWEEN SIEMENS EQUIPMENT AND IS NOT USED TO SEND DATA TO THE CUSTOMER'S NETWORK.

REV 0

ROOM HEIGHT REQUIREMENTS

	USABLE TABLE HEIGHT AT 45° SID
MINIMUM ROOM HEIGHT	8'-9 1/8" 2'-5 1/2" (3)
MINIMUM ROOM HEIGHT FOR 60° SID TO TABLE	9'-3" 2'-11 1/8"
MAXIMUM ROOM HEIGHT WITHOUT THE TUBE STAND TELESCOPE EXTENSION	9'-5 5/8" (1) 3'-1 1/2" (4)
	9'-10 7/8" (2)
MAXIMUM ROOM HEIGHT WITH THE TUBE STAND TELESCOPE EXTENSION	10'-1 1/2" (1) 3'-1 1/2" (4)
	10'-7" (2)

- UPRIGHT (0°) EXPOSURES ARE POSSIBLE AT LOWEST POSITION OF WALL STAND.
- UPRIGHT (0°) EXPOSURES ARE NOT POSSIBLE AT LOWEST POSITION OF WALL STAND.
- RESTRICTED TABLE HEIGHT AT 45° SID.
- USABLE TABLE HEIGHT UNRESTRICTED.

TYPICAL YSIO FRONT ELEVATION

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

Diagram shows front elevation of YSIO system with dimensions A through F.

DIMENSIONS:
 A - TUBE STAND MANUAL MOVEMENT RANGE: 2'-8 3/4" MINIMUM TO 8'-7 5/8" MAXIMUM. TUBE STAND MOTORIZED MOVEMENT RANGE: 2'-9" MINIMUM TO 8'-7 1/4" MAXIMUM.
 B - WALL STAND UPRIGHT (0°) MOVEMENT RANGE: FIXED DETECTOR-10 1/2" MINIMUM OR WIRELESS DETECTOR-12" MINIMUM TO 5'-9" MAXIMUM FOR BOTH.
 C - WALL STAND ROTATED (90°) MOVEMENT RANGE: 1'-9" MINIMUM TO 6'-9 1/2" MAXIMUM.
 D - TABLE HEIGHT MOVEMENT RANGE: 1'-6 1/4" MINIMUM TO 3'-1 1/2" MAXIMUM.
 E - TABLE LONGITUDINAL MOVEMENT: 1'-6 7/8".
 F - TABLE TOP LENGTH: 7'-10 3/4".

SITE READINESS GUIDELINES

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

- PROPER POWER AVAILABLE AT SIEMENS EQUIPMENT POWER CABINET LOCATION AND ALL POWER OUTLETS FUNCTIONING.
- AIR CONDITIONING/HUMIDIFICATION SYSTEMS COMPLETE, TESTED, AND FUNCTIONING PROPERLY ACCORDING TO SIEMENS SPECIFICATIONS.
- PROPER LIGHTING INSTALLED AND FUNCTIONING.
- PLUMBING COMPLETE EXCEPT FOR ANY FINAL CONNECTIONS TO SIEMENS EQUIPMENT.
- ALL CABLE TRAYS/DUCTS/CONDUITS CORRECTLY SIZED, LOCATED, AND INSTALLED ACCORDING TO THE SIEMENS DRAWINGS.
- ALL REINFORCEMENT PLATES/UNISTRUT INSTALLED AS REQUIRED.
- ROOM FOR EQUIPMENT INSTALLATION AND IMMEDIATE VICINITY IS DUST-FREE AND IS TO REMAIN SO FOR THE DURATION OF THE INSTALLATION.
- A SECURE AREA (APPROXIMATELY 10' x 10') IS AVAILABLE AT EQUIPMENT DELIVERY FOR PARTS AND INSTALLATION TOOLS.
- CUSTOMER SUPPLIED CAMERAS AND PROCESSORS INSTALLED.
- CUSTOMER APPROVAL FOR SIEMENS REMOTE SERVICES (SRS) CONNECTION, AND CUSTOMER'S I.T. CONTACT INFORMATION AND IP ADDRESSES ESTABLISHED.
- 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
YSIO SYSTEM	AXB7-020.891.01.12.02	12.14
YSIO MAX	XPB7-030.891.01.02.02	09.14

2 SIEMENS REMOTE SERVICE SCALE: NONE

MINIMUM CEILING HEIGHT W/RESTRICTION	CEILING HEIGHT WITHOUT RESTRICTION	RECOMMENDED CEILING HEIGHT
8'-9 1/8"	SEE RM HT REQTS	9'-6"

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 6
-ISSUE BLOCK-		

SIEMENS

YSIO / YSIO MAX SYSTEM

TYPICAL FINAL DRAWING SET
DIGITAL RADIOGRAPHIC SYSTEM

PROJECT #: **08010** SHEET: **A-101**

SHEET 1 OF 5 DRAWN BY: J. BALCOM

DATE: 04/18/14

SCALE: AS NOTED REF. #:

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.

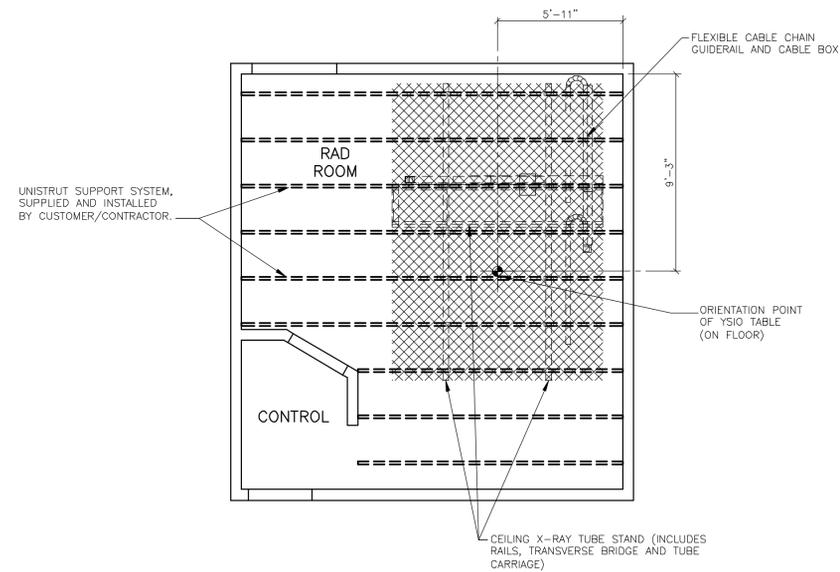
- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
 - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

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.

SCALE: AS NOTED REF. #:

ATTENTION! OVERHEAD LIGHTING, HVAC DUCTS, SPRINKLERS, ETC. MUST NOT BE LOCATED WITHIN SIEMENS CEILING RAIL SYSTEMS. SHADED AREA INDICATES AREA NOT TO CONTAIN ITEMS THAT EXTEND BELOW THE FINISHED CEILING AND WHERE INCANDESCENT LIGHTING IS NOT ALLOWED. PLEASE COORDINATE THE PLACEMENT OF THESE ITEMS WITH THE SIEMENS PROJECT MANAGER.

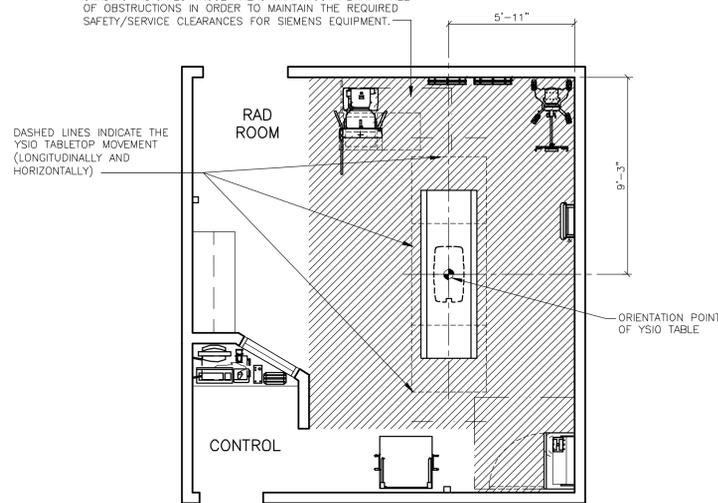


NOTE: SEE THE "STRUCTURAL CEILING PLAN" ON SHEET S-101 FOR DIMENSION LOCATIONS AND DESCRIPTIONS OF ALL ITEMS SHOWN ON THIS PLAN.

REFLECTED CEILING PLAN

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

SHADING INDICATES THOSE AREAS THAT MUST REMAIN FREE OF OBSTRUCTIONS IN ORDER TO MAINTAIN THE REQUIRED SAFETY/SERVICE CLEARANCES FOR SIEMENS EQUIPMENT.



NOTE: FOR DESCRIPTIONS OF ALL SIEMENS EQUIPMENT SHOWN ON THIS PLAN, SEE THE "ARCHITECTURAL EQUIPMENT PLAN" ON SHEET A-101.

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 SOLUTIONS 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.

LIGHTING GUIDELINES

- ROOM LIGHTING IS THE RESPONSIBILITY OF THE CUSTOMER. HOWEVER, SIEMENS OFFERS THE FOLLOWING RECOMMENDATIONS, AS A GENERAL GUIDE ONLY, WHEN PLANNING FOR LIGHTING.
- 1) OVERALL GENERAL ILLUMINATION IS NECESSARY FOR CLEAN UP AND MAINTENANCE OF EQUIPMENT.
 - 2) THE LIGHTING IN ROOMS IN WHICH DIAGNOSES ARE MADE ON VIDEO DISPLAY UNITS (MONITORS) MUST MEET THE FOLLOWING REQUIREMENTS:
 - ADJUSTABLE, GLARE-FREE AND REPRODUCIBLE SETTING OF LIGHTING (I.E. DIMMER WITH SCALE)
 - NO REFLECTIONS FROM WINDOWS, LAMPS AND VIEWING BOXES WHEN THE MONITORS ARE IN THEIR STANDARD OPERATING POSITION.

YSIO REV 7

MINIMUM CEILING HEIGHT W/RESTRICTION	CEILING HEIGHT WITHOUT RESTRICTION	RECOMMENDED CEILING HEIGHT
8'-9 1/8"	SEE RM HT REQMTS	9'-6"

SIEMENS		
YSIO / YSIO MAX SYSTEM		
TYPICAL FINAL DRAWING SET DIGITAL RADIOGRAPHIC SYSTEM		
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #: 08010	SHEET: A-102
ALL RIGHTS ARE RESERVED.	SHEET 2 OF 5 DRAWN BY: J. BALCOM	DATE: 04/18/14
SCALE: AS NOTED	REF. #:	

△	N/A	TYPICAL REV 6
SYM	DATE	DESCRIPTION
-ISSUE BLOCK-		

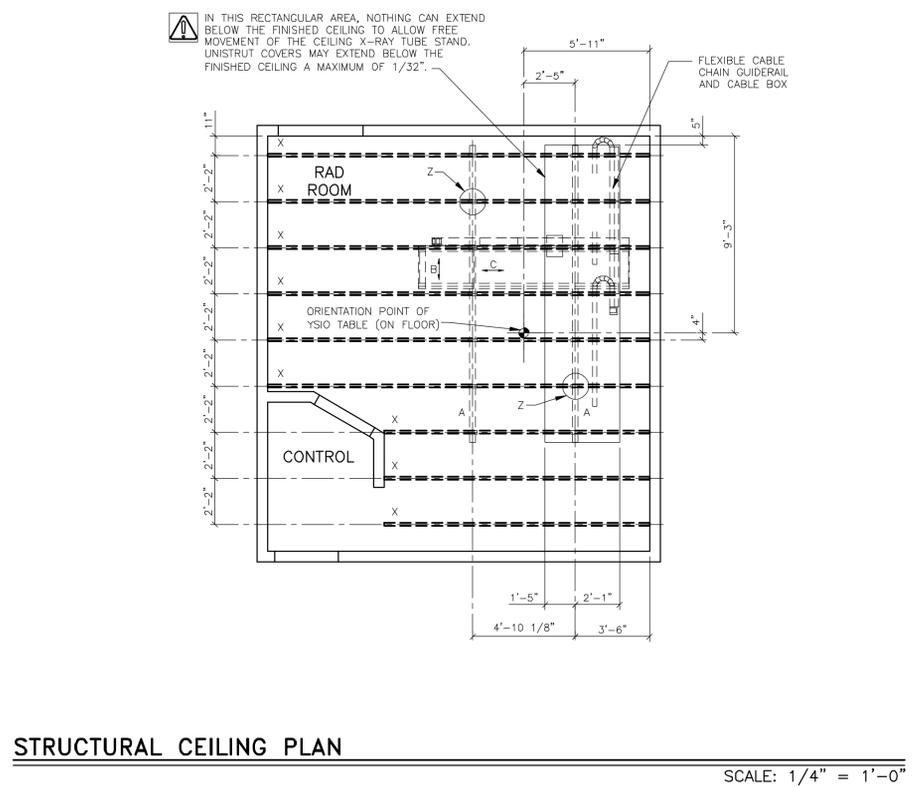
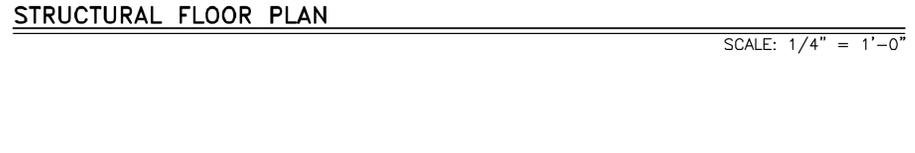
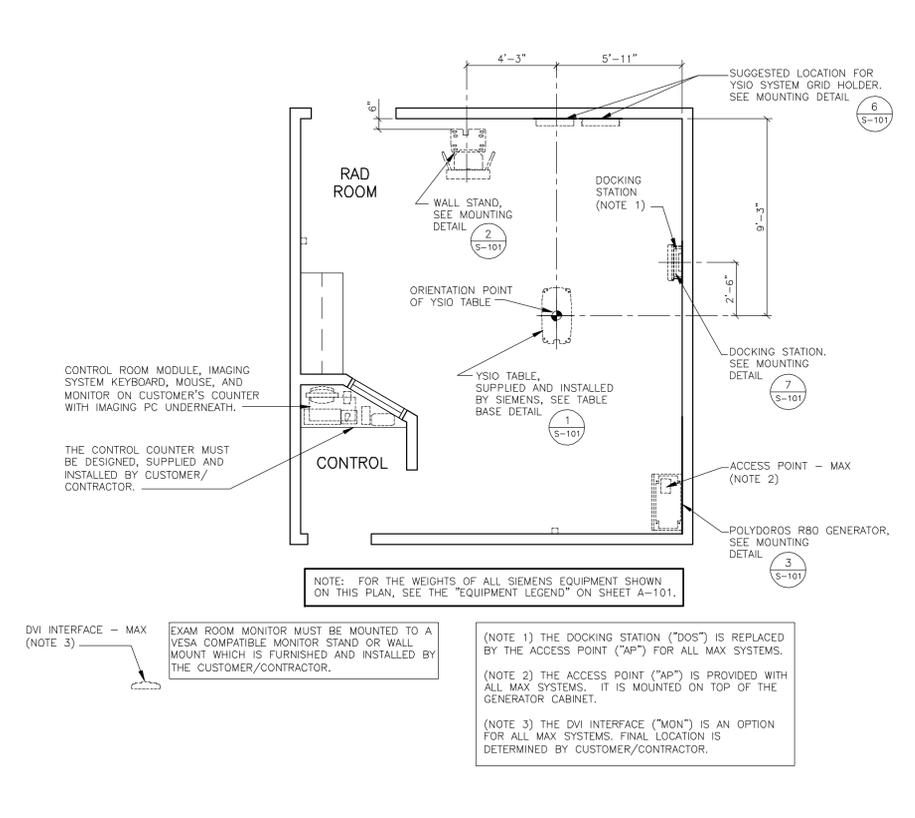
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- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION



ATTENTION:

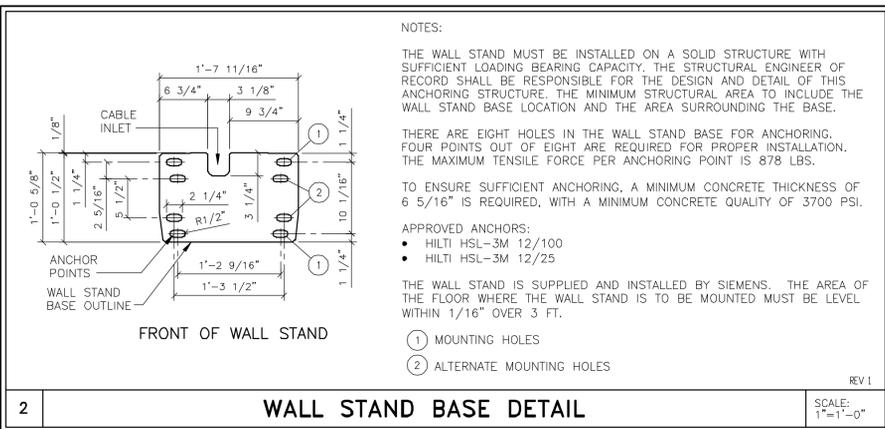
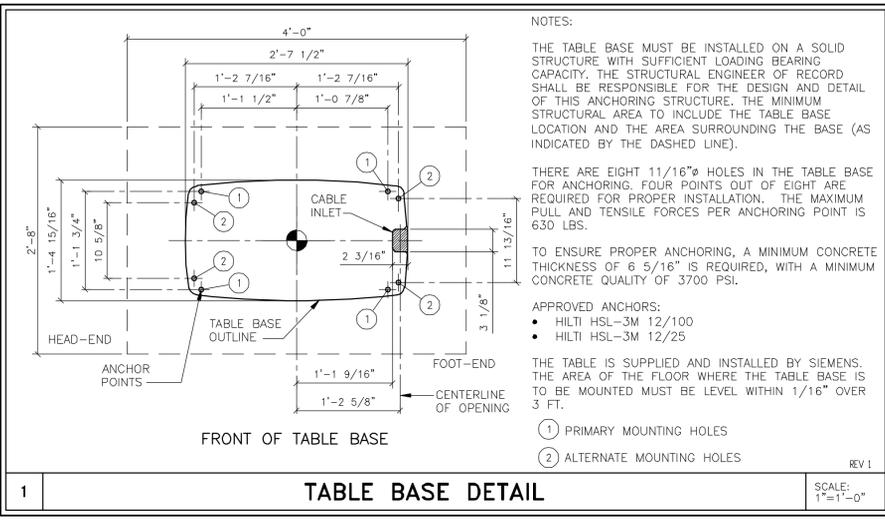
- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

- 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 PLAN LEGEND
SUPPLIED/INSTALLED BY SIEMENS

SYM	DESCRIPTION	DET
A	LONGITUDINAL RAILS ATTACHED TO "P-1001" UNISTRUT	4
B	TRANSVERSE BRIDGE MOVES ALONG LONGITUDINAL RAILS	-
C	TELESCOPE MOVES ALONG TRANSVERSE BRIDGE	-
Z	LONGITUDINAL RAIL SUPPORT MOUNTING POINT BOLTED TO UNISTRUT FRAME	4,5

SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR

SYM	DESCRIPTION	DET
X	"P-1001" UNISTRUT MOUNTED FLUSH WITH FINISHED CEILING. MUST BE LEVEL WITHIN ±1/8".	5

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.

ROOM HEIGHT REQUIREMENTS

	USABLE TABLE HEIGHT AT 45° SID
MINIMUM ROOM HEIGHT	8'-9 1/8" 2'-5 1/2" (3)
MINIMUM ROOM HEIGHT FOR 60° SID TO TABLE	9'-3" 2'-11 1/8"
MAXIMUM ROOM HEIGHT WITHOUT THE TUBE STAND TELESCOPE EXTENSION	9'-5 5/8" (1) 3'-1 1/2" (4)
MAXIMUM ROOM HEIGHT WITH THE TUBE STAND TELESCOPE EXTENSION	9'-10 7/8" (2) 3'-1 1/2" (4)

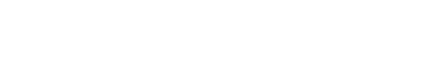
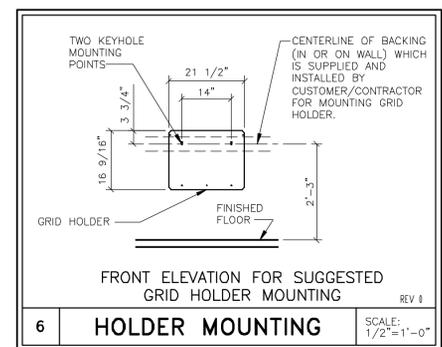
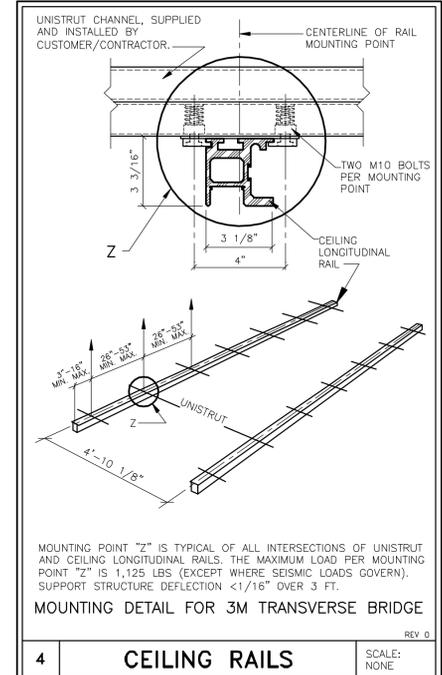
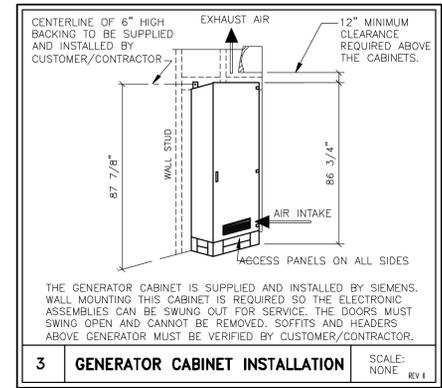
1) UPRIGHT (0) EXPOSURES ARE POSSIBLE AT LOWEST POSITION OF WALL STAND.
2) UPRIGHT (0) EXPOSURES ARE NOT POSSIBLE AT LOWEST POSITION OF WALL STAND.
3) RESTRICTED TABLE HEIGHT AT 45° SID.
4) USABLE TABLE HEIGHT UNRESTRICTED.

ACCESSORY ITEMS MOUNTING

VARIOUS ACCESSORY ITEMS MAY BE PURCHASED WITH THIS SIEMENS SYSTEM THAT INCLUDE STORAGE BRACKETS FOR WALL MOUNTING. THE LOCATION OF THESE ITEMS WILL DEPEND ON EACH CUSTOMER'S PREFERENCE AND WORKFLOW. FOR ALL ACCESSORY ITEMS PURCHASED, THE CUSTOMER IS RESPONSIBLE FOR LOCATING AND INSTALLING ALL STORAGE BRACKETS, AND PROVIDING ANY NECESSARY BACKING OR MOUNTING SUPPORT FOR THESE ITEMS.

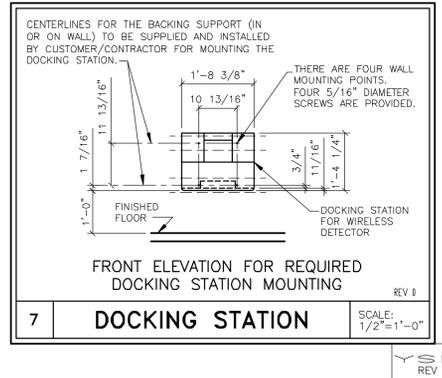
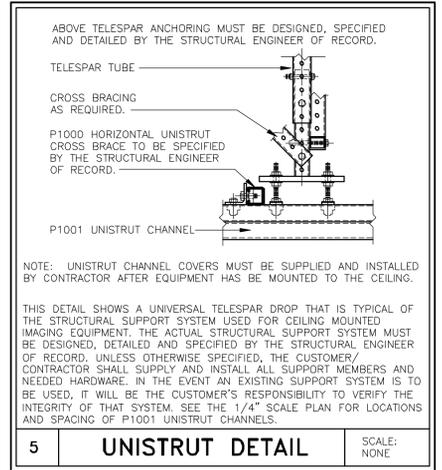
REV 0

MINIMUM CEILING HEIGHT W/RESTRICTION	CEILING HEIGHT WITHOUT RESTRICTION	RECOMMENDED CEILING HEIGHT
8'-9 1/8"	SEE RM HT REQTS	9'-6"



STRUCTURAL NOTES

- THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.
- THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 MATERIALS.
- 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.



SIEMENS

YSIO / YSIO MAX SYSTEM
TYPICAL FINAL DRAWING SET
DIGITAL RADIOGRAPHIC SYSTEM

PROJECT #: **08010** SHEET: **S-101**

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

ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED REF. #:

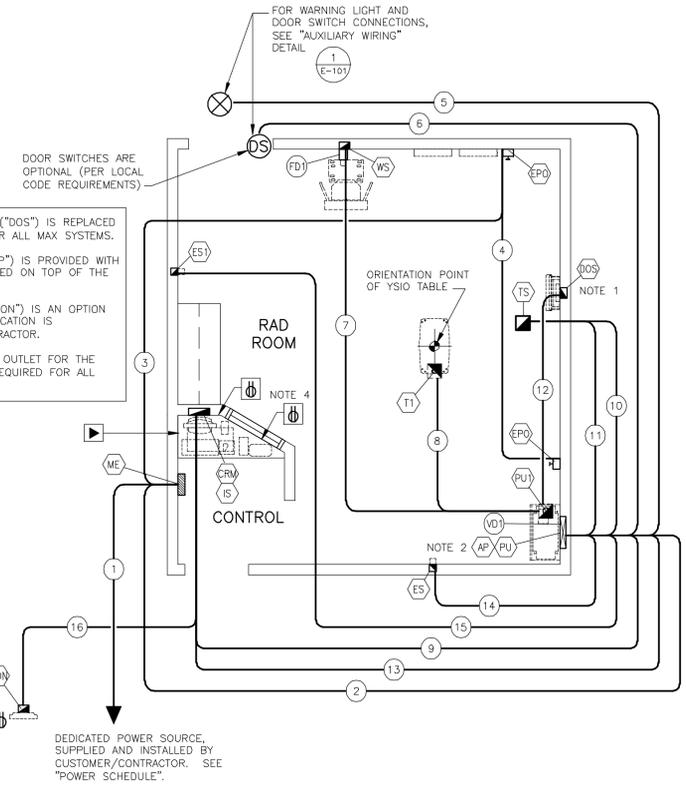
DATE: 04/18/14

DRAWN BY: J. BALCOM

SHEET 3 OF 5

SYMBOLS: N/A, TYPICAL REV 6

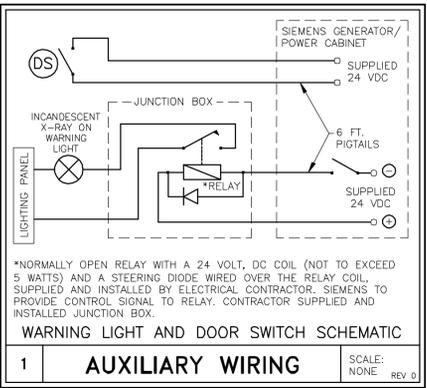
ISSUE BLOCK



(NOTE 1) THE DOCKING STATION ("DOS") IS REPLACED BY THE ACCESS POINT ("AP") FOR ALL MAX SYSTEMS.
 (NOTE 2) THE ACCESS POINT ("AP") IS PROVIDED WITH ALL MAX SYSTEMS. IT IS MOUNTED ON TOP OF THE GENERATOR CABINET.
 (NOTE 3) THE DVI INTERFACE ("MON") IS AN OPTION FOR ALL MAX SYSTEMS. FINAL LOCATION IS DETERMINED BY CUSTOMER/CONTRACTOR.
 (NOTE 4) A CONVENIENT DUPLEX OUTLET FOR THE BATTERY CHARGER (OPTION) IS REQUIRED FOR ALL MAX SYSTEMS.

VIDEO AND POWER OUTLETS MUST BE PROVIDED ADJACENT TO THE LOCATION OF DVI COMPATIBLE MONITOR.

DEDICATED POWER SOURCE, SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR. SEE "POWER SCHEDULE".



1 AUXILIARY WIRING SCALE: NONE REV 0

SYMBOLS
ALL MAY NOT APPLY

[Symbol]	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
[Symbol]	OPENING IN RACEWAY OR TRENCHDUCT
[Symbol]	PULLBOX IN (FLOOR/WALL/CEILING)
[Symbol]	OPENING IN ACCESS FLOORING
[Symbol]	WARNING LIGHT (X-RAY ON)
[Symbol]	DOOR SAFETY SWITCH (EPO) EMERGENCY POWER OFF BUTTON
[Symbol]	TRENCHDUCT
[Symbol]	CEILING DUCT
[Symbol]	UNDER FLOOR DUCT
[Symbol]	SURFACE DUCT
[Symbol]	VERTICAL DUCT
[Symbol]	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
[Symbol]	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.

CONDUIT LENGTH CALCULATIONS

FOR SITE SPECIFIC INSTANCES WHERE CABLES ARE BEING ROUTED IN A COMBINATION OF CONDUIT AND DUCTS, THE MAXIMUM LENGTH FOR THOSE CONDUITS, AS LISTED ON THE ELECTRICAL LEGEND, HAS BEEN CALCULATED BASED UPON THE DUCT LAYOUT SHOWN AND THE FOLLOWING ASSUMED VALUES:

- 1) VERTICAL DUCTS - 10'-0"
- 2) FLOOR PENETRATIONS THROUGH CONCRETE SLAB - 3'-0"

IF THE ACTUAL SITE SPECIFIC CONDITIONS EXCEED THESE ASSUMED VALUES AND/OR THE DUCT LOCATIONS ARE ALTERED, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO RECALCULATE THE MAXIMUM LENGTH OF THE CONDUITS EFFECTED.

REV 0

CABLE LENGTH LIMITATIONS

THE CONDUITS ARE SHOWN SCHEMATICALLY IN THIS PLAN AND MUST BE RUN IN THE SHORTEST POSSIBLE DISTANCE BETWEEN TERMINATION POINTS. ANY VARIATION IN THE ROUTING OF DUCTS COULD RESULT IN CABLE LENGTH LIMITATIONS BEING EXCEEDED. THEREFORE, ANY CHANGES MUST BE APPROVED BY THE SIEMENS PROJECT MANAGER.

CONTRACTOR SUPPLIED ITEMS

ALL ITEMS, INCLUDING BUT NOT LIMITED TO CONDUITS, DUCTS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, AND WARNING LIGHTS, SHOWN IN THESE PLANS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER/ELECTRICAL CONTRACTOR, UNLESS OTHERWISE SPECIFIED.

ELECTRICAL RACEWAY PLAN

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

CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
PANEL	1	ME	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER SCHEDULE
ME	2,VD1	PU	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER SCHEDULE
ME	3	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER SCHEDULE
EPO	4	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER SCHEDULE
PU	VD1,5	W.L.	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE AUXILIARY WIRING DTL.
PU	VD1,6	D.S.W.	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE AUXILIARY WIRING DTL.

ELECTRICAL LEGEND

SYM	SIZE	DESCRIPTION	REMARKS
[Symbol]	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT THE FLOOR LINE AND FITTED WITH REMOVABLE COVER.	SIZED BY ELEC. CONTRACTOR
[Symbol]	6"x6"x4"	PULL BOX MOUNTED FLUSH WITH FINISHED WALL CENTERLINE 12" ABOVE THE FINISHED FLOOR.	FOR DOCKING STATION
[Symbol]	---	EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER, MOUNTED 5'-0" ABOVE THE FINISHED FLOOR.	SEE POWER SCHEDULE
[Symbol]	4"x4"x4"	PULL BOX MOUNTED FLUSH WITH FINISHED WALL CENTERLINE 4'-0" ABOVE THE FINISHED FLOOR. EXACT LOCATION TO BE COORDINATED WITH SIEMENS PROJECT MANAGER.	FOR MECHANICAL STOP FOR FULLY AUTOMATED SYSTEM
[Symbol]	4"x4"x4"	PULL BOX MOUNTED FLUSH WITH FINISHED WALL CENTERLINE 4'-0" ABOVE THE FINISHED FLOOR. EXACT LOCATION TO BE COORDINATED WITH SIEMENS PROJECT MANAGER.	FOR MECHANICAL STOP FOR FULLY AUTOMATED SYSTEM
[Symbol]	---	MAIN ENCLOSURE WITH MAIN BREAKER. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
[Symbol]	AS REQUIRED	(MAX) PULL BOX FOR VIDEO TO DVI COMPATIBLE MONITOR. EXACT LOCATION TO BE COORDINATED WITH SIEMENS PROJECT MANAGER.	DVI CONNECTION IN EXAM ROOM
[Symbol]	18"x6"	OPENING IN FACE OF "VD1" AT THE FLOOR LINE.	FOR GENERATOR W/ ACCESS POINT
[Symbol]	18"x6"	OPENING IN FACE OF "VD1" AT THE FLOOR LINE.	FOR GENERATOR
[Symbol]	8"x8"x6"	PULL BOX MOUNTED TO UNDERSIDE OF FLOOR SLAB WITH 4" DIA. SLEEVE RUNNING THROUGH FLOOR SLAB AND ENDING FLUSH WITH THE FINISHED FLOOR UNDERNEATH THE POLYDOROS GENERATOR CABINET.	FOR GENERATOR
[Symbol]	8"x8"x6"	PULL BOX MOUNTED TO UNDERSIDE OF FLOOR SLAB WITH 3" DIA. SLEEVE RUNNING THROUGH FLOOR SLAB AND ENDING FLUSH WITH THE FINISHED FLOOR UNDERNEATH THE TABLE BASE.	FOR TABLE
[Symbol]	8"x8"x8"	PULL BOX MOUNTED FLUSH WITH FINISHED CEILING AND FITTED WITH REMOVABLE COVER. COVER MAY NOT EXCEED MORE THAN 1/32" BELOW FINISHED CEILING.	FOR FULLY AUTOMATED CEILING STAND
[Symbol]	6"x6"x4"	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT THE FLOOR LINE AND FITTED WITH REMOVABLE COVER.	FOR WALL STAND
[Symbol]	4 3/4"x1 3/4"	FLOOR DUCT (6" LONG WIREMOLD 4000 OR EQUIVALENT) SURFACE MOUNTED ON FLOOR FROM PULL BOX "WS" TO REAR OF WALL STAND BASE, TO PROVIDE COVER FOR CABLES.	FOR WALL STAND
[Symbol]	18"x3 1/2"	VERTICAL DUCT MOUNTED FLUSH WITH FINISHED WALL FROM ABOVE FINISHED CEILING TO END AT THE FLOOR LINE. THIS DUCT MUST BE DIVIDED INTO THREE EQUAL SECTIONS, TO PROVIDE FOR SEPARATION OF POWER CABLES.	
[Symbol]	---	NOTE: WARNING LIGHTS AND DOOR SWITCHES ARE SUPPLIED AND INSTALLED BY THE CUSTOMER/CONTRACTOR. SEE "AUXILIARY WIRING" DETAIL.	
[Symbol]	AS REQUIRED	CONDUIT FROM PANELBOARD TO MAIN ENCLOSURE (ME).	SIZED BY ELEC. CONTRACTOR
[Symbol]	AS REQUIRED	CONDUIT FROM "ME" TO "VD1". (POWER TO PU/PU1)	SIZED BY ELEC. CONTRACTOR
[Symbol]	AS REQUIRED	CONDUIT FROM "ME" TO "EPO".	SIZED BY ELEC. CONTRACTOR
[Symbol]	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO".	SIZED BY ELEC. CONTRACTOR
[Symbol]	AS REQUIRED	CONDUIT FROM "VD1" (PU) VIA RELAY CIRCUITRY TO WARNING LIGHT.	SIZED BY ELEC. CONTRACTOR
[Symbol]	AS REQUIRED	CONDUIT FROM "VD1" (PU) TO DOOR SWITCH.	SIZED BY ELEC. CONTRACTOR
[Symbol]	2 1/2" DIA.	CONDUIT FROM "PU1" TO "WS".	MAX. CONDUIT LENGTH 30 FT.
[Symbol]	2 1/2" DIA.	CONDUIT FROM "PU1" TO "T1".	MAX. CONDUIT LENGTH 30 FT.
[Symbol]	(2) 2" DIA.	CONDUITS FROM "VD1" (PU) TO "TS".	MAX. CONDUIT LENGTH 49 FT.
[Symbol]	(2) 2 1/2" DIA.	CONDUITS FROM "VD1"(PU) TO "TS".	MAX. CONDUIT LENGTH 22 FT.
[Symbol]	2" DIA.	CONDUIT FROM "VD1"(PU) TO "TS".	MAX. CONDUIT LENGTH 22 FT.
[Symbol]	1 1/2" DIA.	CONDUIT FROM "PU1" TO "DOS". (NOT USED WITH MAX SYSTEMS)	MAX. CONDUIT LENGTH 30 FT.
[Symbol]	2 1/2" DIA.	CONDUIT FROM "VD1"(PU) TO "CRW".	MAX. CONDUIT LENGTH 49 FT.
[Symbol]	1" DIA.	CONDUIT FROM "VD1" (PU) TO "ES".	MAX. CONDUIT LENGTH 50 FT.
[Symbol]	1" DIA.	CONDUIT FROM "VD1" (PU) TO "ES1".	MAX. CONDUIT LENGTH 50 FT.
[Symbol]	2" DIA.	(MAX) CONDUITS FROM "TS" TO "MON".	MAX. CONDUIT LENGTH 118 FT.
[Symbol]	---	(*) - THIS CONDUIT IS ELIMINATED FOR ALL MAX SYSTEMS (MAX) - CONDUIT ADDED FOR MAX SYSTEMS ONLY	

SIEMENS SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
PU1	7	WS	W150F, W150P, W150X BUNDLES (INCLUDES 300V, 600 V AND FIBER OPTIC CABLES)	MAX. LENGTH 36 FT.
PU	VD1,9	IS	W150X BUNDLE (INCLUDES 300V AND FIBER OPTIC CABLES)	MAX. LENGTH 59 FT.
PU1	8	T1	W140P BUNDLE (INCLUDES 300V, 30V, 600V AND 125V CABLES)	MAX. LENGTH 36 FT.
PU	VD1,9	IS	W500 BUNDLE (INCLUDES 30V, 300V AND FIBER OPTIC CABLES)	MAX. LENGTH 59 FT.
PU	VD1,10,11	TS	HIGH TENSION CABLES, W110 BUNDLE (INCLUDES 30V, 300V, 600V AND ETHERNET CABLES)	MAX. LENGTH 32.5 FT.
PU	VD1,9	IS	W610 BUNDLE (INCLUDES 300V AND FIBER OPTIC CABLES)	MAX. LENGTH 62 FT.
PU1	(*) 12	DOS	W610 BUNDLE (INCLUDES 300V AND FIBER OPTIC CABLES)	MAX. LENGTH 36 FT.
PU	VD1,13	CRW	W310 (300 V CABLE)	MAX. LENGTH 59 FT.
PU	VD1,14	ES	(300V CABLE)	MAX. LENGTH 60 FT.
PU	VD1,15	ES1	(300V CABLE)	MAX. LENGTH 60 FT.
IS	(MAX) 16	MON	DVI VIDEO CABLE	MAX. LENGTH 118 FT.
---	---	---	(*) - THIS CONDUIT IS ELIMINATED FOR ALL MAX SYSTEMS (MAX) - CONDUIT ADDED FOR MAX SYSTEMS ONLY	

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 TROUGH, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, 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 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 (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 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-THIN, 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 RATINGS, 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.

CABLE SEPARATION

THIS ELECTRICAL RACEWAY PLAN DEPICTED IN THIS DRAWING IS PLANNED ACCORDING TO SIEMENS SYSTEM REQUIREMENTS AND UL CERTIFICATION OF THIS SYSTEM. ADDITIONAL SEPARATION OF THE SYSTEM CABLE SETS INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED IS NOT NECESSARY TO ENSURE SEPARATION OF CIRCUITS. INTERCONNECTING CABLE SETS ARE TESTED AS PART OF THE SYSTEM, AND ARE NOT CONSIDERED PREMISE WIRING.

THE CUSTOMER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ADDITIONAL SEPARATION REQUIREMENTS INCLUDING, BUT NOT LIMITED TO: DETERMINING THE NEED FOR ADDITIONAL SEPARATION AND DETERMINING ANY ADDITIONAL ITEMS NEEDED OTHER THAN THOSE IDENTIFIED ON THIS PLAN.

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.

MINIMUM CEILING HEIGHT W/RESTRICTION	CEILING HEIGHT WITHOUT RESTRICTION	RECOMMENDED CEILING HEIGHT
8'-9 1/8"	SEE RM HT REQTS	9'-6"

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 6
-ISSUE BLOCK-		

SIEMENS

YSIO / YSIO MAX SYSTEM
TYPICAL FINAL DRAWING SET
DIGITAL RADIOGRAPHIC SYSTEM

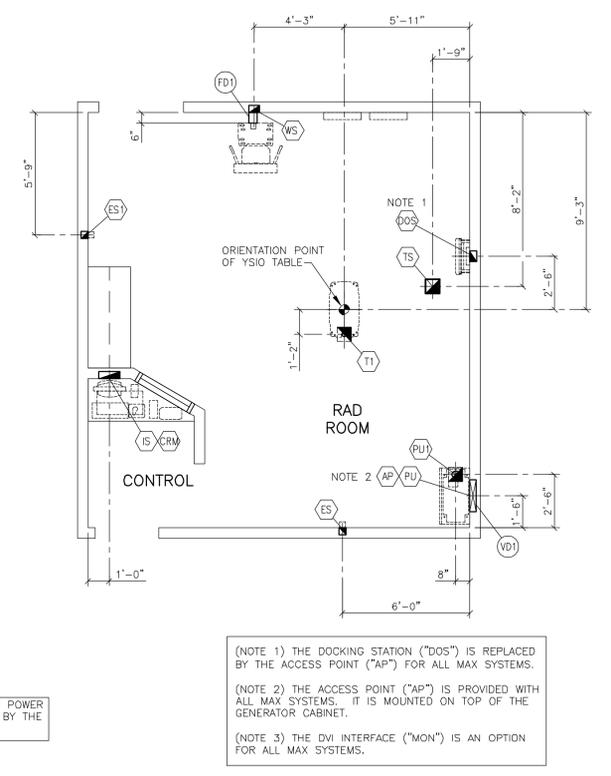
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED REF. #:

PROJECT #:	SHEET:
08010	E-101
SHEET 4 OF 5	DRAWN BY: J. BALCOM
DATE: 04/18/14	

YSIO REV 7



NOTE 3 MON
FINAL LOCATION FOR VIDEO AND POWER OUTLETS MUST BE DETERMINED BY THE CUSTOMER/CONTRACTOR.

NOTE 1 THE DOCKING STATION ("DOS") IS REPLACED BY THE ACCESS POINT ("AP") FOR ALL MAX SYSTEMS.
NOTE 2 THE ACCESS POINT ("AP") IS PROVIDED WITH ALL MAX SYSTEMS. IT IS MOUNTED ON TOP OF THE GENERATOR CABINET.
NOTE 3 THE DVI INTERFACE ("MON") IS AN OPTION FOR ALL MAX SYSTEMS.

ELECTRICAL DIMENSION PLAN

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

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.

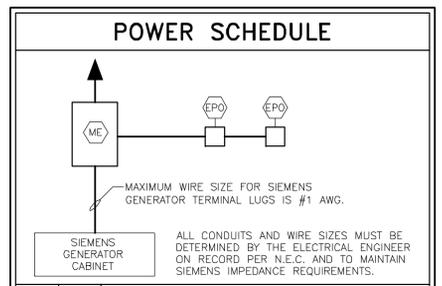
GROUNDING NOTES
EQUIPMENT GROUND CONDUCTOR TO COMPLY WITH THE FOLLOWING:
1) SIZED EQUIVALENT TO THE PHASE CONDUCTORS (FULL SIZED GROUND).
2) DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER OR MAIN DISTRIBUTION PANEL FEEDING THE SIEMENS EQUIPMENT.
3) RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE 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 $\leq 500\text{mA}$ DURING OPERATION OF THE IMAGING EQUIPMENT.

POLYDOROS R80 80kW
X-RAY GENERATOR POWER REQUIREMENTS

INCOMING POWER:	480 VOLTS, 3 PHASE, 60Hz
CIRCUIT BREAKER:	80 AMPS.
GENERATOR OUTPUT:	80 kW
ALLOWABLE IMPEDANCE:	0.16 OHMS.
MAXIMUM MOMENTARY LOAD:	126 kVA
LINE VOLTAGE VARIATION:	± 10% MAX.
PHASE IMBALANCE:	2%
FREQUENCY VARIATION:	± 1 Hz

NOTE:
ALL INCOMING POWER SUPPLIES, FOR THE SIEMENS EQUIPMENT, ARE TO BE DEDICATED (BACK TO SOURCE) ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT, SUCH AS, ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC.
A NEUTRAL CONDUCTOR, IF PRESENT, IS NOT USED FOR THE LINE VOLTAGE CONNECTION TO THE SIEMENS EQUIPMENT. IF THE NEUTRAL CONDUCTOR IS PROVIDED, IT SHOULD NOT BE ELECTRICALLY CONNECTED AT ANY POINT IN THE POWER DISTRIBUTION TO THE SIEMENS EQUIPMENT UNLESS SPECIFICALLY REQUIRED. UNINTENTIONAL NEUTRAL TO GROUND BONDS MAY VIOLATE LOCAL AND NATIONAL ELECTRICAL CODES, AS WELL AS CREATE GROUNDING PROBLEMS.

ATTENTION:
SIEMENS MEDICAL SYSTEMS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS, AND OVERVOLTAGES.



ITEM	QTY	DESCRIPTION
ME	1	MAIN ENCLOSURE WITH MAIN BREAKER FLUSH OR SURFACE MOUNTED. MAIN BREAKER MUST HAVE A TRIPPING DEVICE SO WHEN ANY EPO IS PRESSED THE MAIN BREAKER TRIPS. THIS TRIPPING DEVICE CONTROL CIRCUIT MUST BE OF FAIL-SAFE DESIGN. THE CONTROL CIRCUIT FOR THE EPO'S MUST HAVE AN ENERGY STORAGE SOURCE SO THAT THE CONTROL CIRCUIT NEVER LOSES POWER.
		MAIN BREAKER AMPS: SEE POWER REQUIREMENTS
		VOLTS PHASES NEUTRAL GROUND TOTAL WIRES
		480Y 3 0 1 4 (NOTE 1)
1) ALL WIRES MUST BE SAME SIZE.		
EPO	VARIES	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 EPO'S MUST HAVE AN ENERGY STORAGE SOURCE SO THAT THE CONTROL CIRCUIT NEVER LOSES POWER. ALL EPO'S ARE TO BE LATCHING TYPE AND MUST BE RESET BEFORE MAIN BREAKER CAN BE RESET. IF ANY OPTIONAL UPS EQUIPMENT IS PROVIDED BY SIEMENS, THE CUSTOMER/CONTRACTOR SHALL PROVIDE AN ADDITIONAL CONTACT 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. THE EPO'S 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 EPO'S AND THEIR ASSOCIATED CIRCUITS AND MUST MAKE THE FINAL DETERMINATION CONSIDERING ALL SITE CONDITIONS AND REGULATORY FACTORS.
ALL ITEMS LISTED IN THIS SCHEDULE SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.		

ATTENTION:

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- 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.

YSIO
REV 7

SIEMENS

YSIO / YSIO MAX SYSTEM
TYPICAL FINAL DRAWING SET
DIGITAL RADIOGRAPHIC SYSTEM

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #: 08010	SHEET: E-102
ALL RIGHTS ARE RESERVED.	SHEET 5 OF 5 DRAWN BY: J. BALCOM	
SCALE: AS NOTED	REF. #:	DATE: 04/18/14

-ISSUE BLOCK-

EXISTING CONTROL WALL IS ONLY 7 FT. HIGH PARTITION IN ORDER FOR CEILING MOUNTED MONITOR SUSPENSION TO PASS ABOVE IT.

7 EXISTING UNISTRUT

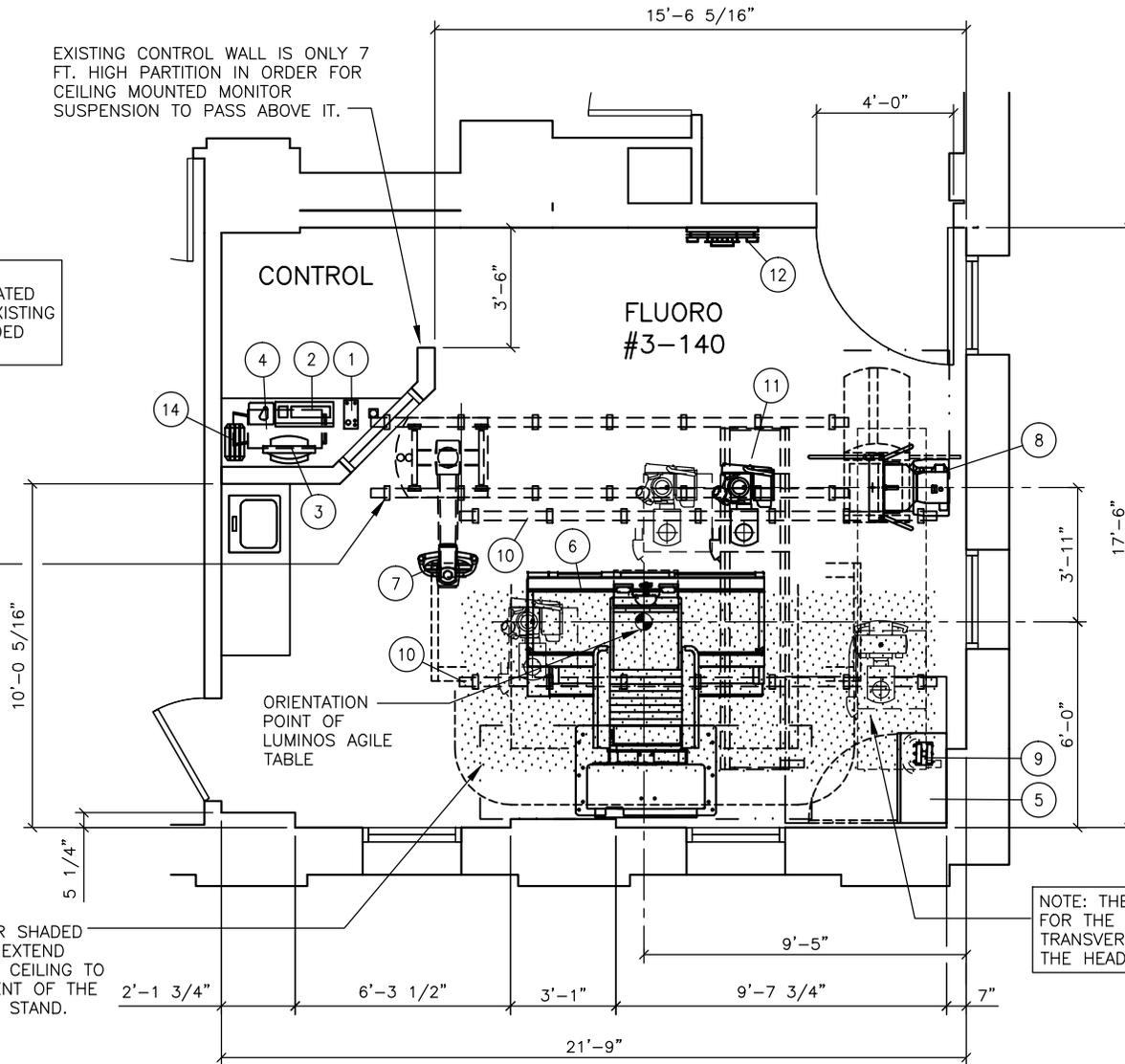
NOTE: THE CEILING X-RAY TUBE SUSPENSION RAILS HAVE BEEN LOCATED IN THIS PLAN TO MOUNT TO THE EXISTING UNISTRUT GRID LOCATION AS PROVIDED BY OLD SIEMENS DWG 0901840

NOTE: NEED ONE NEW UNISTRUT OVER CONTROL WALL FOR DCS RAILS

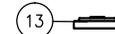
X-RAY TUBE SHOWN AT BOTH 45" & 72" SID POSITIONS TO WALL STAND



IN THIS RECTANGULAR SHADED AREA, NOTHING CAN EXTEND BELOW THE FINISHED CEILING TO ALLOW FREE MOVEMENT OF THE CEILING X-RAY TUBE STAND.



DVI INTERFACE



CUSTOMER SUPPLIED EXAM ROOM MONITOR MUST BE MOUNTED TO A VESA COMPATIBLE MONITOR STAND OR WALL MOUNT WHICH IS FURNISHED AND INSTALLED BY THE CUSTOMER/CONTRACTOR.

CONTROL COUNTER, SINK AND CASEWORK MUST BE DESIGNED, SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.

NOTE: THE PARKING POSITION FOR THE CEILING STAND TRANSVERSE BRIDGE WILL BE AT THE HEAD-END OF THE ROOM.

THIS LAYOUT IS REFLECTIVE OF THE LATEST SALES CONFIGURATION. ANY CHANGES TO THIS SALES CONFIGURATION MAY REQUIRE A REVISION TO THIS PROJECT PLAN.

SCALE: 3/16" = 1'-0"

PROJECT MANAGER: TRAVIS MATTINGLY
PHONE: (859) 229-0866
EMAIL: TRAVIS.MATTINGLY@SIEMENS.COM

LEXINGTON VAMC

1101 VETERANS DRIVE, LEXINGTON, KY 40502

SIEMENS

A 08/30/16 ORIGINAL PRELIMINARY ISSUE

SHEET OF
1 2

DATE:
08/30/16

DRAWN BY:
J. DILLON

REF:
1-HN5DY3

FLUORO ROOM #3-140 - LUMINOS AGILE MAX
REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

1603324

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
①	CONTROL ROOM MODULE	CR	2	-	4 3/4	10 1/16	3 3/16	ON CUSTOMER'S COUNTER
②	IMAGING SYSTEM - KEYBOARD AND MOUSE	KM	-	-	-	-	-	ON CUSTOMER'S COUNTER
③	CONTROL ROOM MONITOR (LIVE IMAGE)	CM	-	-	-	-	-	ON CUSTOMER'S COUNTER
④	IMAGING SYSTEM (UNDER COUNTER)	IS	110	1,468	17 3/8*	32 1/2*	27*	*INCLUDES 5 1/8" BEHIND, 4" ABOVE AND ALONG CONTAINER.
⑤	POLYDOROS F80 (80 KW) GENERATOR CABINET	PG	838	2,048**	31 1/2	17 1/8	86 3/4	**DURING OPERATION, 1,195 IN STANDBY MODE
⑥	LUMINOS AGILE MAX (+90/-20) TABLE	PT	3,793	2,900***	83	88	77	***DURING OPERATION, 512 IN STANDBY MODE
⑦	DCS-1 IC-DVI FLAT DISPLAY & TOUCH DISPLAY ON CEILING SUSPENSION	DD	419	512	167 1/8	27 7/8	*A	*A - 63" MIN. AND 102" MAX.
⑧	YSIO MAX WALL STAND WITH MOBILE DETECTOR (LEFT LOADING)	WS	551	819	30	37*A	83	*A - MAX. IN HORIZONTAL POSITION
⑨	ACCESS POINT (TOP OF GENERATOR)	AP	4	-	8	5 1/2*A	3*B	*A 12 1/4, *B 9" INCLUDING ANTENNAE
⑩	CEILING RAILS 4.25M FOR FULLY SYNCHRONIZED TUBE STAND	CT	59	-	167 3/8	3	3 1/2	SIZE AND WEIGHT PER RAIL
⑪	3 METER TRANSVERSE BRIDGE AND X-RAY TUBE STAND	TS	772	853	119 1/4	39	4	
⑫	GRID HOLDER FOR AGILE (WALL MOUNTED)	GH	63	-	25 1/16	6 7/16	21 11/16	SUGGESTED LOCATION
⑬	DVI INTERFACE FOR EXAM ROOM DISPLAY	DI	-	-	-	-	-	CUSTOMER PROVIDES MONITOR
⑭	CHARGING STATION FOR MAX DETECTORS	CS	4	-	12 1/2	6 3/4	2	ON CUSTOMER'S COUNTER

ARCHITECTURAL NOTES

- 1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE LOCATION SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS 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 SIEMENS PROJECT MANAGER.
- 2) SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS.
- 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- 4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
- 5) ALL DIMENSIONS SHOWN ARE 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) SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION AND CALIBRATION. CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH JOB SUPERVISION TO BE PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- 8) THE CUSTOMER SHALL VERIFY WITH SIEMENS PROJECT MANAGER FINAL INSTALLATION DRAWINGS THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E.: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- 9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

FOR ADDITIONAL PLANNING RELATED QUESTIONS,
PLEASE REFER TO TYPICAL DRAWING SET OR
SIEMENS PROJECT MANAGEMENT.

EXAM RESTRICTIONS:
NOT APPLICABLE

WARNING NOTES:
NOT APPLICABLE

MISCELLANEOUS NOTES:

Authorization:

I have reviewed the below referenced plan(s) and understand and agree with the proposed room configuration and equipment arrangement. By signing below, I agree that I have the authority to sign on behalf of the customer. I have been fully informed by Siemens about the limitations (if applicable) that exist regarding the proposed equipment installation. Siemens has explained that the listed limitations may interfere with certain functions of the equipment. We agree to assume responsibility to inform employees, agents, contractors, users or any other persons handling this equipment of these limitations and will assure that the equipment is handled in compliance with these parameters.

Signature: _____ Date: _____
Name Printed: _____ Title: _____

PROJECT MANAGER: TRAVIS MATTINGLY
PHONE: (859) 229-0866
EMAIL: TRAVIS.MATTINGLY@SIEMENS.COM

LEXINGTON VAMC

1101 VETERANS DRIVE, LEXINGTON, KY 40502

A 08/30/16 ORIGINAL PRELIMINARY ISSUE

SHEET OF
2 2

DATE:
08/30/16

DRAWN BY:
J. DILLON

REF:
1-HN5DY3

FLUORO ROOM #3-140 - LUMINOS AGILE MAX
REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

1603324

SIEMENS