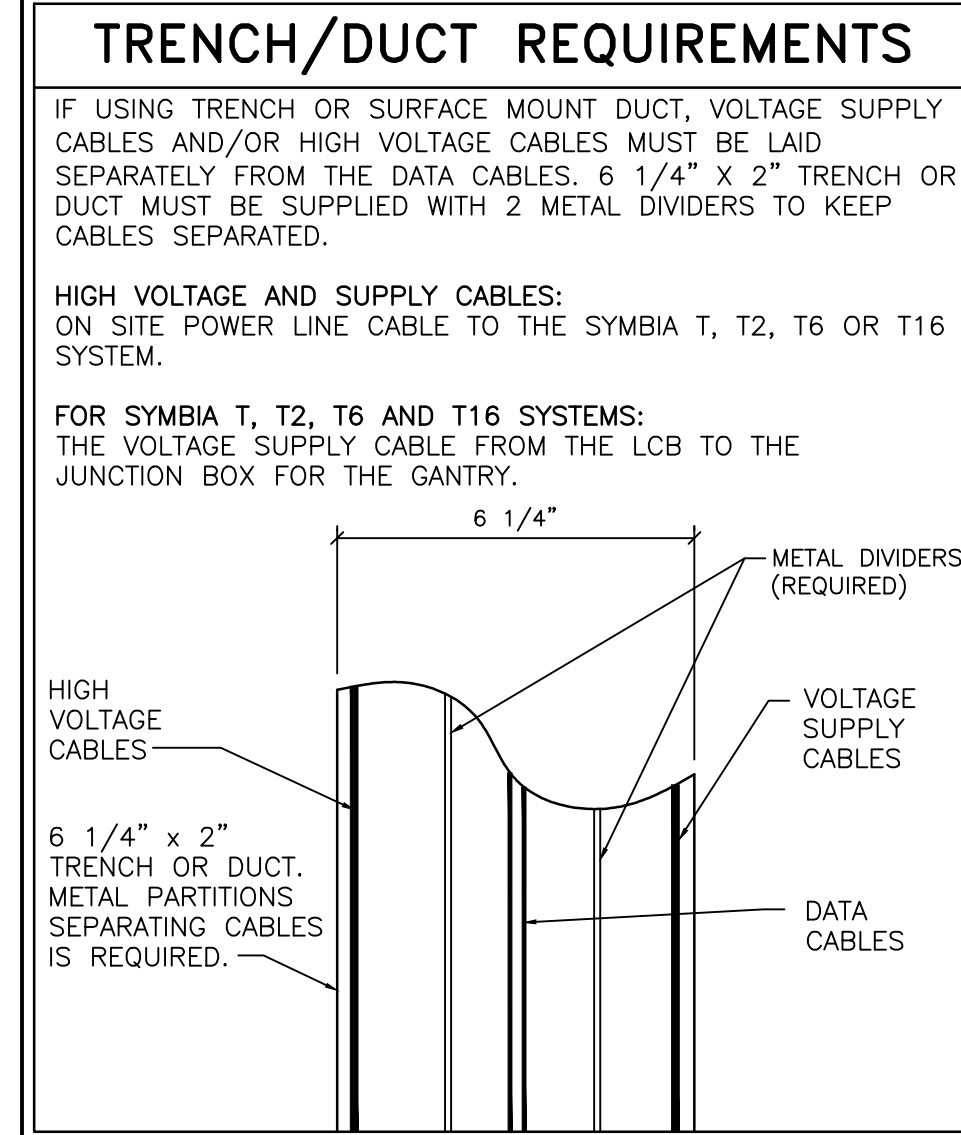
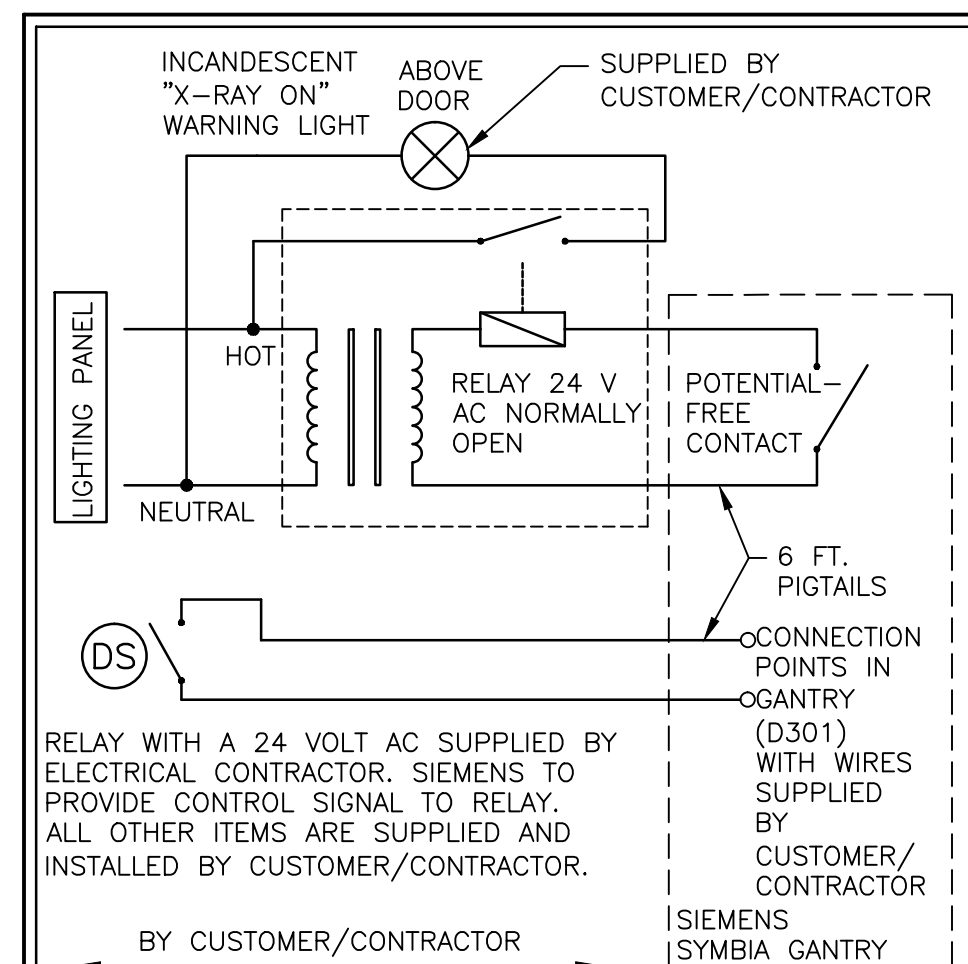
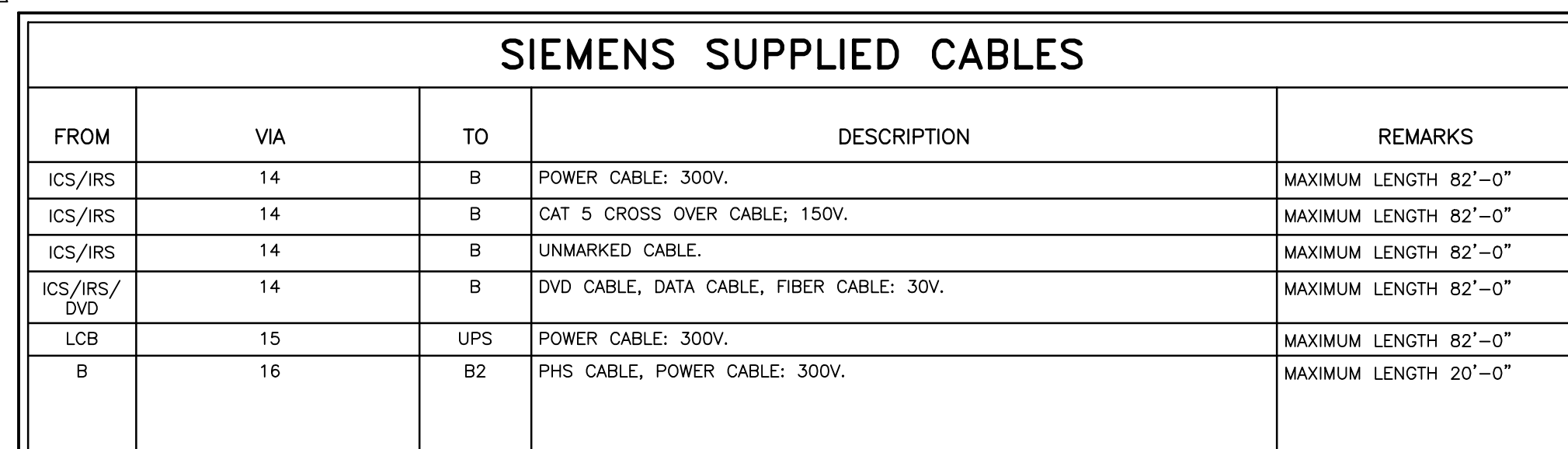
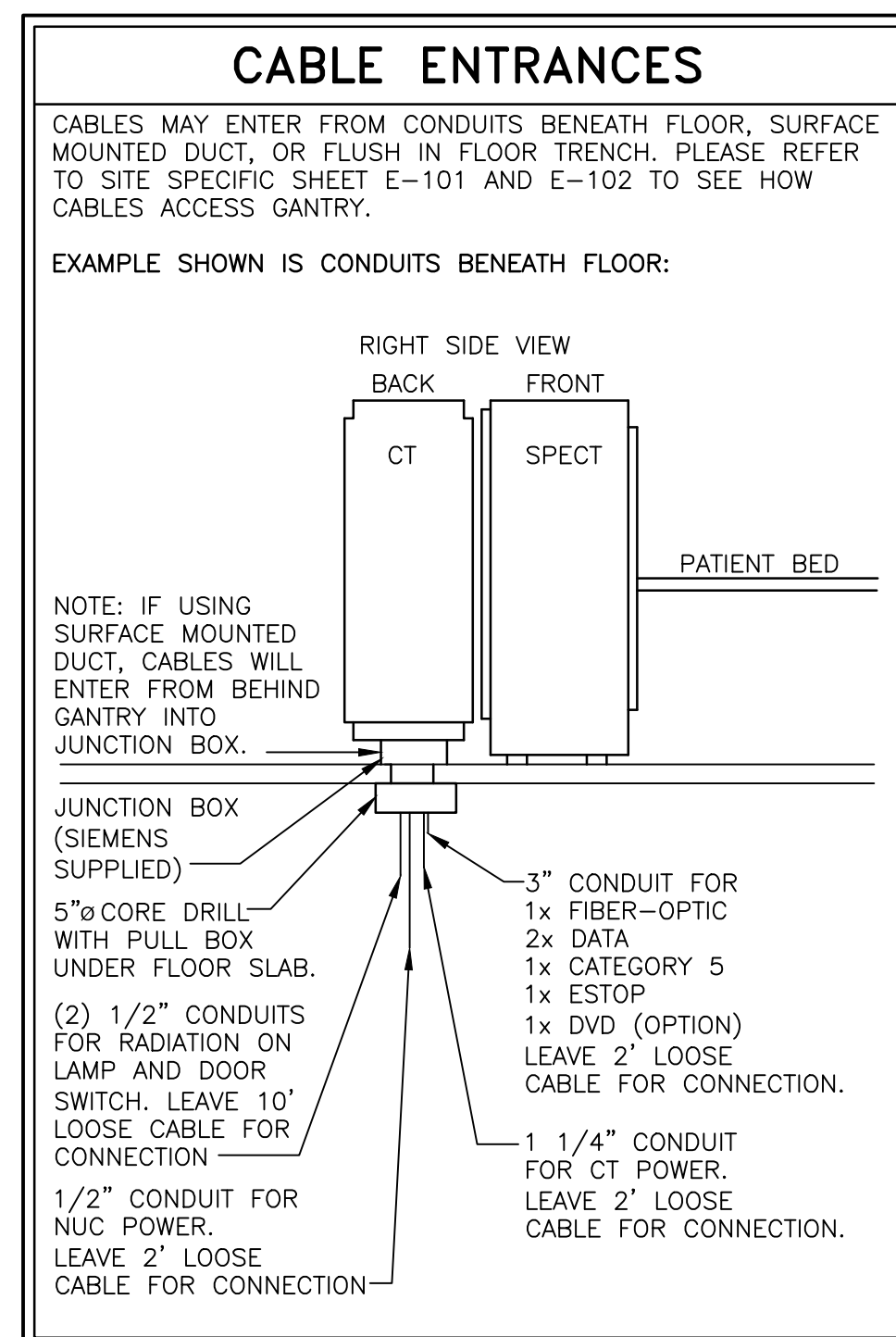


ELECTRICAL RACEWAY PLAN









ELECTRICAL LEGEND			
SYM	SIZE	DESCRIPTION	REMARKS
		SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	
(A)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	ANCILLARY WIRING
(B)	8" x 8"	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 5" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	GANTRY CABLE ACCESS
(C)	6" x 6"	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 3" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION. SIEMENS SUPPLIED COVER.	PHS CABLE ACCESS UNDER THE PHS
(D)	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	
(E)	---	EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER, MOUNTED ON WALL AT 5'-0" ABOVE FINISH FLOOR THAT PREVENTS RESETTING OF CIRCUIT BREAKER WHEN IN THE OFF POSITION. THERE SHALL BE AN EPO IN EACH ROOM OF THE SUITE WHERE SIEMENS EQUIPMENT IS LOCATED, EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR. SUPPLIED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
(F)	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 6" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	IMAGE CONSTRUCTION SYS
(G)	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	IMAGE RECONSTRUCTION SYS
(H)	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 6" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	LINE CONNECTION BOX
(M)	---	MAIN PANEL WITH MAIN BREAKER FLUSH OR SURFACE MOUNTED. REFER TO POWER SCHEDULE.	SEE POWER SCHEDULE
(N)			
(P)	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 3" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	UPS FOR SPECT
(T)	AS REQUIRED	TRANSFORMER PROVIDING STEP DOWN POWER FOR THE SPECT UPS (SPS). EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR BASED ON LOCATION OF MP AND SPS. SUPPLIED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
(V)	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	
(W)	6" x 3 1/2"	ELECTRICAL DUCT THAT RUNS HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN FOR EXCESS CABLE STORAGE.	RACEWAY
(1)	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(2)	AS REQUIRED	CONDUIT FROM "MP" TO "TF" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(3)	AS REQUIRED	CONDUIT FROM "TF" TO "SPS" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(4)	1/2"ø	CONDUIT FROM "SPS" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	MAXIMUM CONDUIT LENGTH 76'-0"
(5)	1 1/4"ø	CONDUIT FROM "MP" TO "A" (LCB) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(6)	1 1/4"ø	CONDUIT FROM "LCB" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	MAXIMUM CONDUIT LENGTH 76'-0"
(7)	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(8)	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(9)	AS REQUIRED	CONDUIT FROM "EPO" TO "SPS" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(10)	1/2"ø	CONDUIT FROM "B" TO "DOOR SAFETY SWITCH" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
(11)			
(12)	1/2"ø	CONDUIT FROM "B" TO "WARNING LIGHT" (X-RAY ON) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
(13)			
(14)	(2) 3"ø	CONDUIT "B" TO "ICS".	MAXIMUM CONDUIT LENGTH 76'-0"
(15)	1 1/2"ø	CONDUIT FROM "LCB" TO "UPS".	MAXIMUM CONDUIT LENGTH 76'-0"
(16)	3"ø	CONDUIT FROM "B" TO "B2".	MAXIMUM CONDUIT LENGTH 14'-0"

CONTRACTOR SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
POWER SOURCE	1	MP	3-PHASE CONDUCTORS, 1 NEUTRAL AND GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	2	TF	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
TF	3	SPS	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
SPS	4	B	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	5,A	LCB	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
LCB	6	B	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	7	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	8	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	9	SPS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
B	10	DOOR SAFETY SWITCH	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
	11			
B	12	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
	13			

FINISHED ROOM HEIGHT	
SYMBIA T, T2, T6 OR T16	MINIMUM 8'-0"
SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-0" MAXIMUM 12'-0"

CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.

			PROJECT MANAGER: MIKE CAMPBELL TEL: (925) 408-6293 EXT: _____ VMAIL: _____ FAX: _____ EMAIL: MIKE.CAMPBELL@SIEMENS.COM
	05/26/15	REVISED TO REFLECT NEW WALL BACKGROUND PER CUSTOMER REQUEST.	
	03/30/15	REVISED WALL BACKGROUND PER CUSTOMER REQUEST.	
	03/31/14	UPDATED TO REFLECT CURRENT SALES ORDER PER CUSTOMERS REQUEST.	
	03/04/14	CHANGED TO CONDUITS	
	10/26/11	R-1018B VERSION DATED 06/08/11 APPROVED BY THE CUSTOMER FOR FINALS.	
SYM	DATE	DESCRIPTION	<p>THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.</p> <p>ALL RIGHTS ARE RESERVED.</p>
-ISSUE BLOCK-			SCALE: AS NOTED REF. # 30134844

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 SIZES, DIMENSIONS OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SMS PROGRAM MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY SMS PROJECT MANAGER.

3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS MEDICAL SOLUTIONS EQUIPMENT SHALL BE DEDICATED SERVICES KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING AND EQUIPMENT, SUCH AS: ELEVATORS, GENERATORS, PUMPS, HVAC SYSTEMS, ETC. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER/UTILITY COMPANY FIELD REPRESENTATIVE.

4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS MEDICAL SOLUTIONS BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES THE FOLLOWING BUT IS NOT LIMITED TO UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.

5) RACEWAY AND CONDUIT NOTES: RACEWAY SHALL BE ELECTRIC METALLIC TUBING (EMT) FOR RIGID 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 346-10 OF THE NATIONAL ELECTRICAL CODE. FROM THE CUTLINE "GROUNDING" TO THE CUTLINE "GROUNDING" 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 UGHT.

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 AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT IS EVALUATED. DURING THE UL SYSTEM VERIFICATION OF THIS EQUIPMENT, AN ADDITIONAL SEPARATION OF THE SYSTEM CASE 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.

SEPARATION OF CIRCUITS, AS THEY CAN BE IN THE SAME RACEWAY. PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF OPENINGS TO BE CUT IN FIELD ARE TO BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. IN- FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.

6) WIRING: WIRING SHALL BE INSTALLED IN METAL RACEWAY, 600 VOLT CLASS, STRANDED TYPE THHN–THWN, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 75° C (165° F). SIZED AS INDICATED. THE CUSTOMER/CONTRACTOR SHALL LEAVE MINIMUM 10 FT. WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY SIEMENS MEDICAL SOLUTIONS.

7) IN ADDITION TO THE CIRCUIT BREAKER LOAD CURRENT RATING, CONSIDERATION MUST ALSO BE GIVEN TO SELECTING CIRCUIT BREAKERS THAT HAVE A HIGH ENOUGH SHORT CIRCUIT CURRENT WITHSTAND RATING TO SAFELY COORDINATE WITH THE POWER SYSTEM AVAILABLE SHORT CIRCUIT CURRENT. GENERALLY, WHEN THE 480 VOLT, 3 PHASE, X-RATED CIRCUIT BREAKER IS SELECTED, THE 480 VOLT, 3 PHASE, 1500 AMPERE, 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.

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.

SYMBIA T, T2, T6, T16
REV 4

SIEMENS

VA MARTINEZ 612

150 MUIR ROAD, MARTINEZ, CA 94553
CT. SCANNER C156 - SYMBIA I2

CT SCANNER C156 - SYMBIA T2

PROJECT #:

0900424

SHEET 5 OF 6	DRAWN BY: R. HILL
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DATE:	
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E-101

THE USE OR REPRODUCTION OF

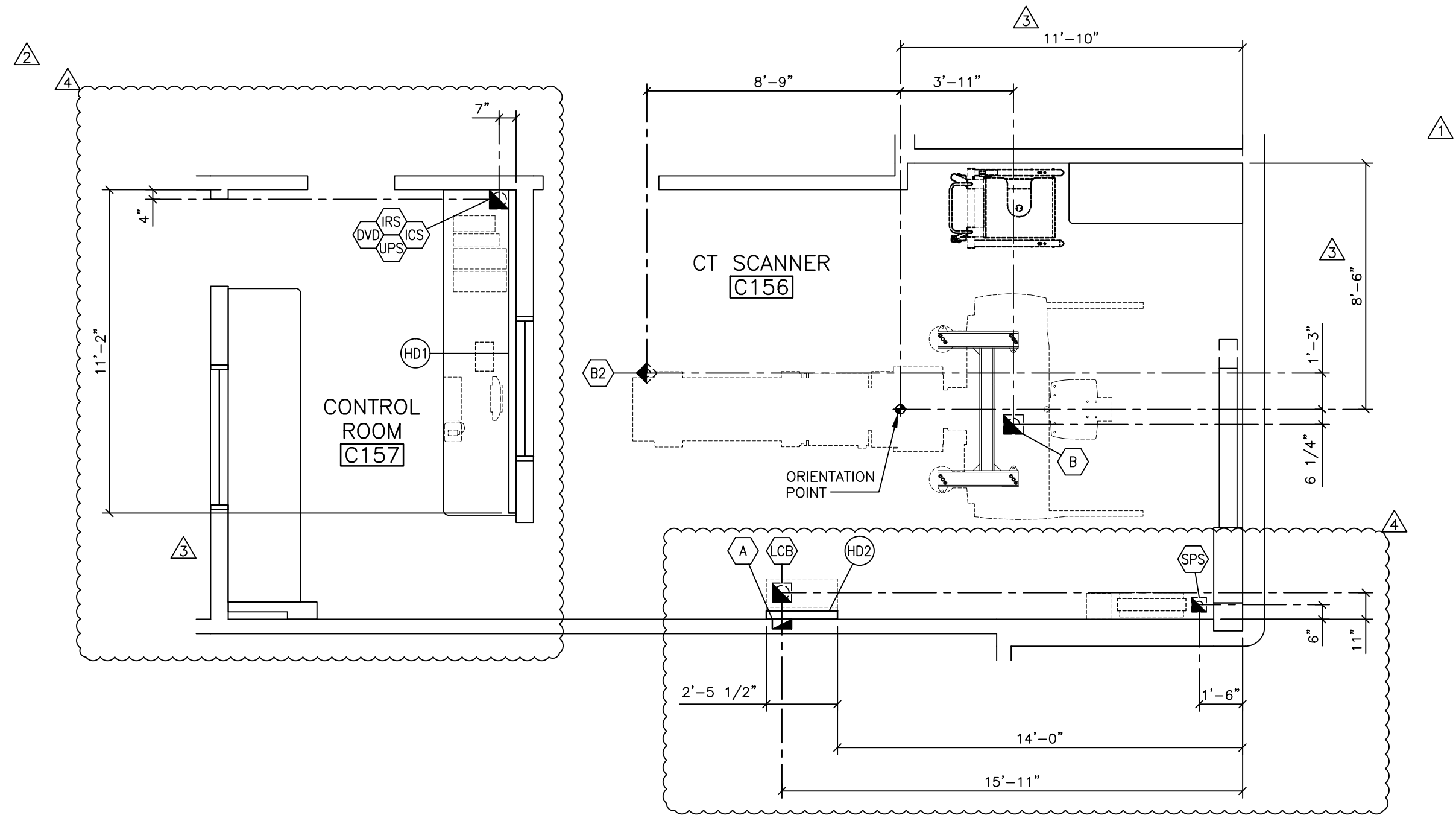
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SCALE:	REF. #:
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ELECTRICAL DIMENSION PLAN



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

POWER SCHEDULE

		ALL CONDUITS AND WIRE SIZES MUST BE DETERMINED BY THE ELECTRICAL ENGINEER ON RECORD PER N.E.C. AND TO MAINTAIN SIEMENS IMPEDANCE REQUIREMENTS.				
ITEM	QTY	DESCRIPTION				
MP	1	MAIN PANEL 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/277Y	3	1	1	5 (NOTE 1)
A	1	BREAKER AMPS: 80 FOR LINE CONNECTION BOX (LCB) AND CT GANTRY (B)				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		480Y/277Y	3	1	1	5 (NOTE 1)
B	1	BREAKER AMPS: 25 UPS FOR SPECT (SPS) AND SPECT GANTRY (B)				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		277Y	1	1	1	3 (NOTE 1)
EPO	VARIES	1) ALL WIRES MUST BE SAME SIZE. 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. THE EPO SHALL BE MAINTAINED TYPE, PROVIDED WITH (1) SET(S) OF CONTACTS FOR TRIPPING OF THE MAIN IN THE MP, A SECOND SET OF NORMALLY OPEN CONTACTS IS REQUIRED FOR EACH EPO FOR THE SIEMENS SUPPLIED UPS FOR SPECT. THE EPO SHALL BE CONNECTED IN PARALLEL WITH THE (2) SETS OF CONTACTS, THEREBY WHEN ANY EPO IS ACTIVATED, THE NORMALLY OPEN CONTACT WILL CLOSE SHUTTING DOWN THE UPS FOR SPECT. THE OTHER CONTACT (NORMALLY OPEN/NORMALLY CLOSED) WILL TRIP THE MAIN BREAKER.				
		ALL ITEMS LISTED IN THIS SCHEDULE SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.				
		REV 1				

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 CONTRACTORS RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM CONDUIT LENGTHS:

VERTICAL DUCTS - 10'-0"

FLOOR PENETRATIONS - 3'-0"

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.

SYMBOLS

ALL MAY NOT APPLY	
	MAIN PANEL OR ENCLOSURE 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 UNLESS OTHERWISE STATED.

POWER REQUIREMENTS

SYSTEM	LINE VOLTAGE (VOLTS)	POWER CONSUMPTION (kVA) SEE NOTE BELOW	AUTOMATIC CIRCUIT BREAKER (AMPS)	INCOMING LINE IMPEDANCE (mΩ)	HZ
SYMBIA T/T2	3ø 480±10%	44.8 kVA SCAN	100	320	60
POWER CONSUMPTION: SYMBIA T/T2 - 40 kVA MAXIMUM POWER CONSUMPTION, LESS THAN OR EQUAL TO 1 kVA STANDBY					
SPECT GANTRY, PHS, UPS, & SNAC - 4.8 kVA MAXIMUM POWER CONSUMPTION, LESS THAN OR EQUAL TO 1.5 STANDBY					
TOTAL CONSUMPTION = 44.8 TOTAL STANDBY = 2.5 kVA					
NOTE: THE SPECT UNITS NEED TO BE WIRED SINGLE PHASE TO NEUTRAL WITH APPROPRIATE BREAKER AND WIRE SIZE.					
DO NOT CONNECT ANY EXTERNAL USERS TO THE SPECT/CT POWER LINE. FOR SYMBIA T/T2, THE IMAGING SYSTEM IMS (ICS, IRS, AND MONITOR) MUST BE CONNECTED VIA THE UPS TO THE LCB. THE FUSE IS ALREADY INTEGRATED IN THE LCB.					
AN ON/OFF SWITCH IN ACCORDANCE WITH UL 2601/CSA114 INCLUDING A SWITCH POSITION INDICATOR IS INTEGRATED IN THE LCB, A SEPARATE ON/OFF SWITCH MAY BE REQUIRED PER LOCAL CODE.					
THE SCANNER AND CONTROL ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EACH EMERGENCY POWER OFF BUTTON.					

UPS FOR SPECT PREINSTALL REQUIREMENTS

THE CUSTOMER HAS PURCHASED THE UPS FOR SPECT OPTION FOR THE SPECT PORTION OF THE SYMBIA T'S SYSTEMS. THE UPS FOR SPECT REQUIRES 208/220/240 VAC AND NEEDS A CUSTOMER/CONTRACTOR SUPPLIED STEP DOWN TRANSFORMER (277 VOLTS PRIMARY 5 KVA STEP DOWN TRANSFORMER TO 208/220/240 VAC). IT IS THE CUSTOMER/CONTRACTOR RESPONSIBILITY TO PROVIDE POWER TO AND CONNECT THE STEP DOWN TRANSFORMER PRIOR TO EQUIPMENT DELIVERY AND INSTALLATION.

CUSTOMER SUPPLIED

DOOR (SAFETY) SWITCH REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH LOCAL CODES.

RADIATION WARNING LIGHTS REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH FDA CODES.

EMERGENCY POWER OFF BUTTON SHOULD BE INSTALLED IN BOTH THE SCANNER AND CONTROL ROOM.

POWER DISTRIBUTION

TO ENSURE TROUBLE-FREE OPERATION, WE RECOMMEND THAT THE MAIN POWER LINE RUN DIRECTLY FROM THE HOUSE TRANSFORMER TO THE ON-SITE POWER DISTRIBUTOR.

THE MAIN POWER LINE SHOULD BE ROUTED DIRECTLY FROM THE ON-SITE POWER DISTRIBUTOR TO THE SYMBIA SYSTEM MAIN POWER PANEL.

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.

FINISHED ROOM HEIGHT

SYMBIA T, T2, T6 OR T16	MINIMUM 8'-0"
SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-0" MAXIMUM 12'-0"
CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.	

ATTENTION:

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

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05/26/15

REVISED TO REFLECT NEW WALL BACKGROUND PER CUSTOMER REQUEST.

03/30/15

REVISED WALL BACKGROUND PER CUSTOMER REQUEST.

03/31/14

UPDATED TO REFLECT CURRENT SALES ORDER PER CUSTOMERS REQUEST.

03/04/14

CHANGED TO CONDUITS

10/26/11

R-1010B VERSION DATED 06/08/11 APPROVED BY THE CUSTOMER FOR FINALS.

SYM

DATE

DESCRIPTION

—ISSUE BLOCK—

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CT SCANNER C156 - SYMBIA T2

PROJECT #:

0900424

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SCALE: AS NOTED

REF. # 50134844

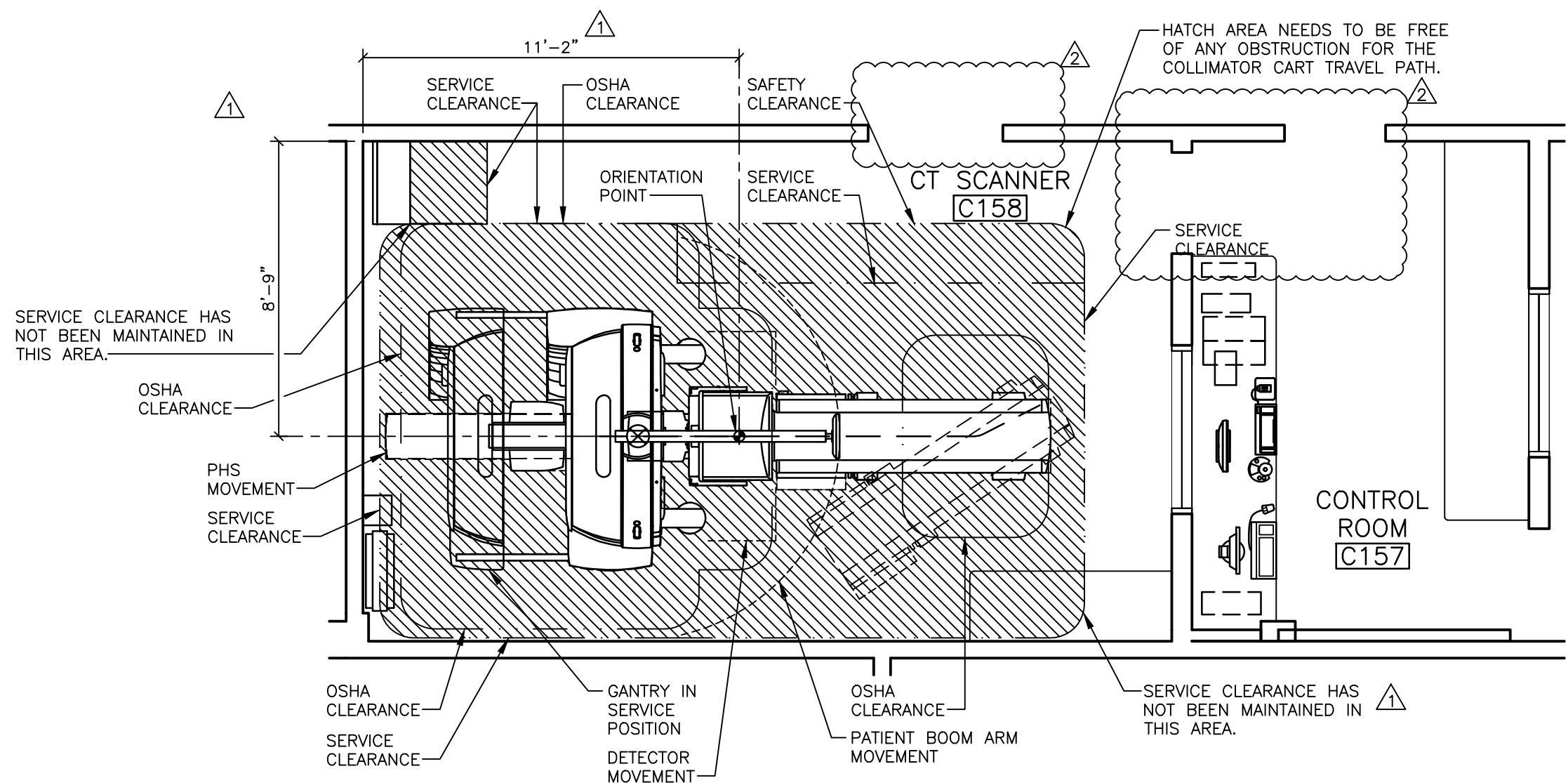
SHEET:

E-102

DATE: 05/26/15

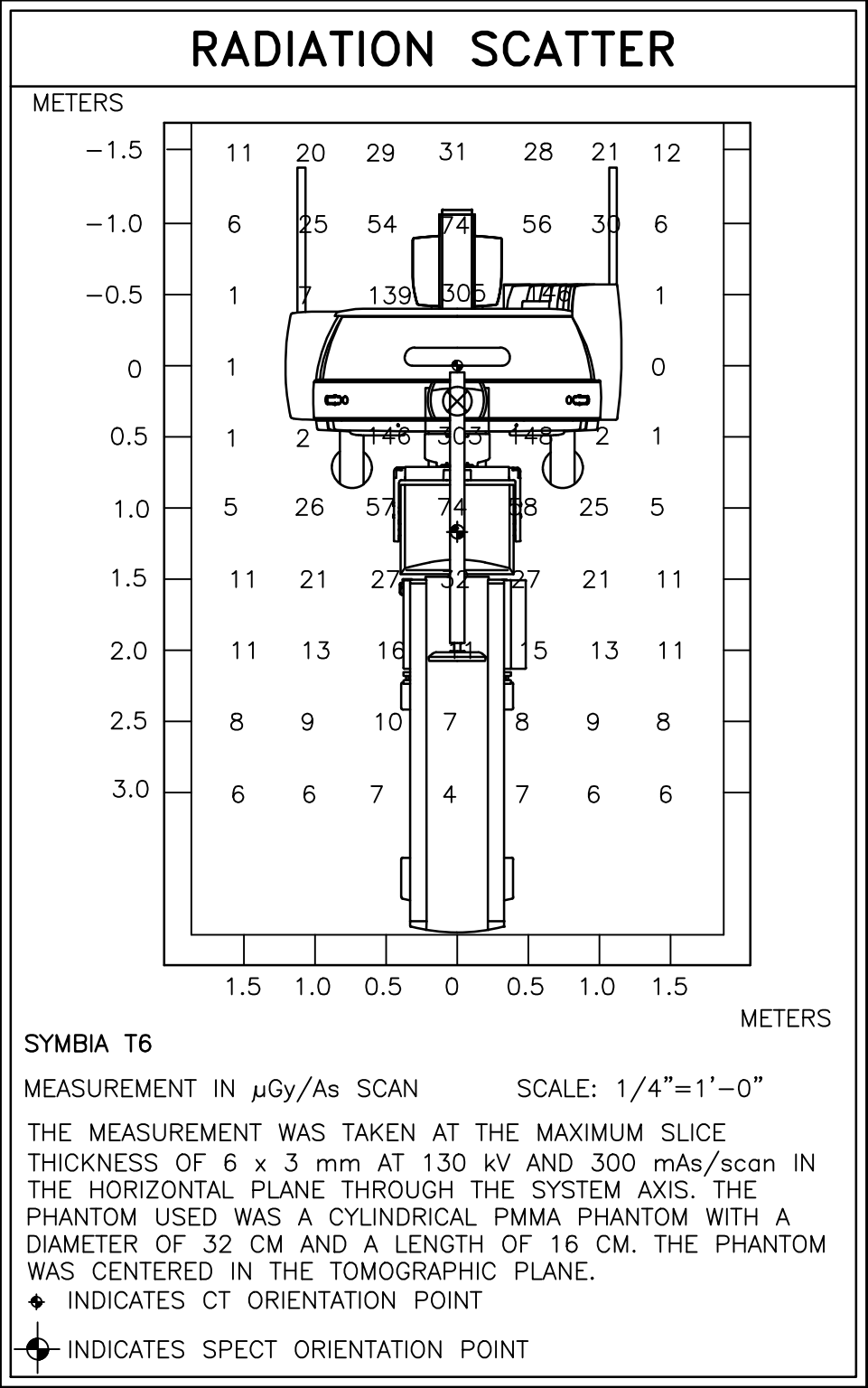
SHEET 6 OF 6

DRAWN BY: R. HILL



SAFETY/SERVICE CLEARANCE PLAN

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



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.

SRS ROUTER CONNECTION DIAGRAM

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.

SIEMENS REMOTE SERVICE SCALE: NONE

SAFETY CLEARANCE NOTE

IF THE SAFETY DISTANCES ARE NOT OBSERVED, SAFETY MEASURES IN ACCORDANCE WITH LOCAL CODES SHOULD BE UTILIZED (FOR EXAMPLE BARRIERS, WARNING SIGNS, AND SAFETY MATS).

RADIATION SAFETY

LEAD OR EQUIVALENT SHIELDING MAY BE REQUIRED IN THE WALLS OF THE SCANNER ROOM, HOTLAB AND/OR PATIENT PREPARATION AREAS. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO VERIFY WITH THE SITE'S RADIATION SAFETY OFFICER THAT RADIATION DOSE RATES FROM THE SPECT PATIENT AND/OR ISOTOPE WILL NOT EXCEED LOCAL RADIATION SAFETY GUIDELINES IN THE ROOM ADJACENT TO SCANNER, HOTLAB, AND/OR PATIENT PREPARATION AREAS.

IMPROPER SHIELDING MAY AFFECT CAMERA'S PERFORMANCE.

RADIOACTIVE SOURCES

THE FOLLOWING RADIOACTIVE SOURCES ARE REQUIRED FOR THE SYMBIA T AT THE TIME OF INSTALLATION FOR CALIBRATION:

- 10-20 mCi Co57 (COBALT 57) OR LIQUID FILLED Tc99 (TECHNETIUM 99) SHEET SOURCE (FOR EXTRINSIC FLOOD).
- POINT SOURCE 30-35 uCi Tc99 (FOR INTRINSIC FLOODS, TUNING AND PEAKING).
- QUANTITY OF 5 - 1 mCi Tc99 POINT SOURCES (FOR MHR CALIBRATION).
- QUANTITY OF 10 Tc99 POINT SOURCES WITH COMBINED ACTIVITY OF ALL SOURCES 5 mCi TO 20 mCi (FOR NM/CT FOV).

IT IS CUSTOMER'S RESPONSIBILITY TO OBTAIN THESE SOURCES PRIOR TO INSTALLATION. CO-57 RECTANGULAR FLOOD SHEET SOURCE MAY BE ORDERED FROM SIEMENS (ASK SIEMENS SALES ASSOCIATE). Tc99 MUST OBTAINED THROUGH CUSTOMER'S LOCAL RADIOACTIVE SOURCE PROVIDER.

THESE RADIOACTIVE SOURCES AREA NEEDED TO COMPLETE CALIBRATION OF EQUIPMENT. PLEASE NOTE SOURCE PROVIDERS WILL NOT SHIP SOURCES TO SITE WITHOUT A VALID RAM LICENSE.

RAM LICENSE

RAM LICENSE NEEDS TO BE APPLIED FOR THROUGH GOVERNMENT AGENCY AS EARLY AS POSSIBLE. PLEASE ADDRESS WITH YOUR RSO (RADIATION SAFETY OFFICER).

RAM LICENSE MUST BE OBTAINED NO LATER THAN 4 WEEKS AHEAD OF SCHEDULED DELIVERY. DELAY OF INSTALLATION MAY OCCUR IF SITE HAS NOT OBTAINED RAM LICENSE AT THIS TIME. RADIOACTIVE SOURCES NEEDED TO COMPLETE CALIBRATION OF EQUIPMENT WILL NOT BE SHIPPED TO SITE WITHOUT VALID RAM LICENSE.

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.

- OVERALL GENERAL ILLUMINATION IS NECESSARY FOR CLEAN UP AND MAINTENANCE OF EQUIPMENT.
- 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.

FINISHED ROOM HEIGHT	
SYMBIA T, T2, T6 OR T16	MINIMUM 8'-0"
SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-0" MAXIMUM 12'-0"
CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.	

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		VA MARTINEZ 612	
		150 MUIR ROAD, MARTINEZ, CA 94553 SCANNER ROOM C158 - SYMBIA T6	
		PROJECT #: REPLACES: 0900425	
		1400791	
		SHEET: 2 OF 6	
		DRAWN BY: R. HILL	
		DATE: 05/26/15	
		ALL RIGHTS ARE RESERVED.	
		SCALE: AS NOTED	
		REF. # 50143923	

SYMBIA T, T2, T6, T16
REV. 4

A-102

SYM	DATE	DESCRIPTION
△	05/26/15	REVISED WALL BACKGROUND PER CUSTOMER NEW CAD BACKGROUND.
△	03/27/15	REVISED WALL BACKGROUND PER CUSTOMER REQUEST.
△	03/07/14	R-101RB VERSION DATED 06/08/11 APPROVED BY THE CUSTOMER FOR FINALS.

—ISSUE BLOCK—

STRUCTURAL FLOOR PLAN

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 WEIGHTS, MOMENTS AND FORCES AS SHOWN ON OUR STRUCTURAL CALCULATIONS, OR INFORMATION, IN CONSIDERATION OF FORCES AS DETERMINED PER LOCAL GOVERNING BUILDING CODES.

BASE FRAME FOOT PAD

EACH PAD SURFACE HAS AN AREA OF 30.16 SQ. IN. LOAD PER PAD IS APPROXIMATELY 40 LBS./SQ. IN.

TOP VIEW

SIDE VIEW

CONCRETE SLAB MUST BE A MINIMUM OF 4" THICK.

(4) 5/8" HOLES, 4" DEEP DRILLED FROM THE TOP SURFACE OF EACH OF THE FOUR BASE FRAME FOOT PADS.

LOAD CONCENTRATIONS

REAR PHS CG 415.2 LBS. 1712 LBS. FIXED

2058 LBS. FIXED

1712 LBS. FIXED

2058 LBS. FIXED

879 LBS. CASTER (1093 LBS. WITH ICC/AQC OPTION)

377 LBS. CASTER (468 LBS. WITH ICC/AQC OPTION) PIVOT ASM

377 LBS. CASTER (468 LBS. WITH ICC/AQC OPTION)

FRONT PHS WEIGHT 3145.2 LBS.

FRONT PHS CASTER LOADS EXCLUDE PATIENT WEIGHT.

SYMBIA T BASE FRAME

THE GANTRY IS FULLY ADJUSTABLE AT ALL FOUR BASE FRAME PADS. THE BASE FRAME FOOT PADS ARE MOUNTED TO THE FLOOR USING 5/8" X 3 1/2" ANCHORS. THE BASE FRAME FOR THE GANTRY SITS ON TOP OF THE FOOT PADS. LEVELING SCREWS ARE THEN USED TO LEVEL THE GANTRY FRONT TO BACK AND SIDE TO SIDE. ONCE THE GANTRY IS LEVEL, LOCKING SCREWS ARE TIGHTENED AT ALL FOUR PADS.

BACK

FRONT

LOCKING SCREW (X8)

ANCHOR HOLE LOCATION-BASE FRAME FOOT PAD (X4)

LEVELING SCREW (X4)

LCB CABINET DETAIL

1/2"Ø HOLES IN CABINET BASE FOR FLOOR MOUNTING

SPACER

OPENING IN CABINET BASE FOR CABLE INLET

3/8"Ø HOLE IN REAR OF CABINET FOR WALL ANCHORING

OPENING IN REAR OF CABINET FOR CABLE INLET

ANCHORING REQUIREMENTS: THE LINE CONNECTION BOX (LCB) STANDS ON THE FLOOR. IT IS TO BE ANCHORED TO THE WALL THROUGH THE REAR COVER TO PREVENT TIPPING. BOLTING THE LCB TO THE FLOOR IS ONLY NECESSARY WHEN LOCAL OR NATIONAL REGULATIONS REQUIRE IT (EXAMPLE: EARTHQUAKE ZONES). SCREWS AND ANCHORS FOR MOUNTING ARE TO BE SUPPLIED BY THE CUSTOMER/CONTRACTOR.

FINISHED ROOM HEIGHT

SYMBIA T, T2, T6 OR T16	MINIMUM 8'-0"
SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-0" MAXIMUM 12'-0"

CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.

COLLIMATOR CART

CART IS AVAILABLE IN LEFT AND RIGHT CONFIGURATIONS DEPENDING ON BED PIVOT.

WEIGHT AND LOCATION OF CG VARIES WITH COLLIMATOR TYPE. HEAVIEST LOAD SHOWN:

1-SET HIGH ENERGY
1-SET MEDIUM ENERGY
TOTAL WEIGHT: 1330 LBS.

TOP VIEW

SIDE VIEW

BACK VIEW

ANCHOR LOCATION

RETAINER PLATE 4 ANCHORS

RETAINER PLATES 2 ANCHORS EACH

ORIENTATION POINT

FIXED GUIDE PIN FOR RIGHT PHS PIVOT.

ANCHORS USED FOR RIGHT PHS PIVOT.

ANCHORS USED FOR LEFT PHS PIVOT.

FIXED GUIDE PIN FOR LEFT PHS PIVOT.

STANDARD LEFT ANGLE PHS PIVOT

CASTER LOCATIONS.

FIXED GUIDE PIN FOR LEFT PHS PIVOT.

VA MARTINEZ 612

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REPLACES: 0900425

PROJECT #: 1400791

REVISIONS:

SYMBOL	DATE	DESCRIPTION
05/26/15	REVISED WALL BACKGROUND PER CUSTOMER NEW CAD BACKGROUND.	
03/27/15	REVISED WALL BACKGROUND PER CUSTOMER REQUEST.	
03/07/14	R-101RB VERSION DATED 06/08/11 APPROVED BY THE CUSTOMER FOR FINALS.	

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SCALE: AS NOTED

REF: 0143923

DATE: 05/26/15

DRAWN BY: R. HILL

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FLOOR REQUIREMENTS

- 1) THE MINIMUM ALLOWABLE CONCRETE THICKNESS FOR NONSEISMIC REGIONS OF THE SCANNER ROOM FLOOR IS 4".
- 2) CONDITIONS OF FLOORING:

VIBRATION FREE LOCATION AS FOUND IN A TYPICAL CLINICAL ENVIRONMENT.

INSTALLATION OF THE GENTRY AND PATIENT TABLE ON:

CONCRETE FLOORING CLASS C20/25 TO C50/60.

COMPOSITE FLOORING OR ACCESS FLOOR WITH SUITABLE ON SITE MOUNTING FRAME, SUB CONSTRUCTION, OR EQUIVALENT STRUCTURE.
- 3) WEIGHT CAPACITY OF FLOORING SHOULD BE TESTED BY A STRUCTURAL ENGINEER.
- 4) ANY FLOORING OTHER THAN LISTED ABOVE REQUIRES AN ON SITE FRICTION FREE SUB CONSTRUCTION MADE FROM STEEL IN THE AREAS OF SUPPORT. PLEASE CONSULT STRUCTURAL ENGINEER.
- 5) THE MINIMUM EXTRACTION FORCE FOR THE POINTS WHERE THE PATIENT TABLE IS ATTACHED IS 610 LBF. PER ANCHOR.
- INSTALLATION ON A FLOATING FLOOR WITHOUT SUB-CONSTRUCTION IS PROHIBITED.
- 6) THE BASE FRAME FOOT PADS ARE MOUNTED TO THE FLOOR USING (4) 5/8" X 3 1/2" ANCHORS.
- 7) FLOOR LEVELNESS REFER TO FLOOR LEVELING AND FLATTENING DETAIL LOCATED ON THIS SHEET.
- 8) THE MINIMUM REQUIREMENTS FOR COMPRESSIVE STRENGTH FOR THE FLOOR COVERING BASED ON SYMBIA COLLIMATOR CART SHALL BE 375 PSI. THIS IS BASE ON WORSE CASE LOADING WITH 2-HIGH ENERGY AND 2-MEDIUM ENERGY COLLIMATORS PLACED ON THE COLLIMATOR CART.

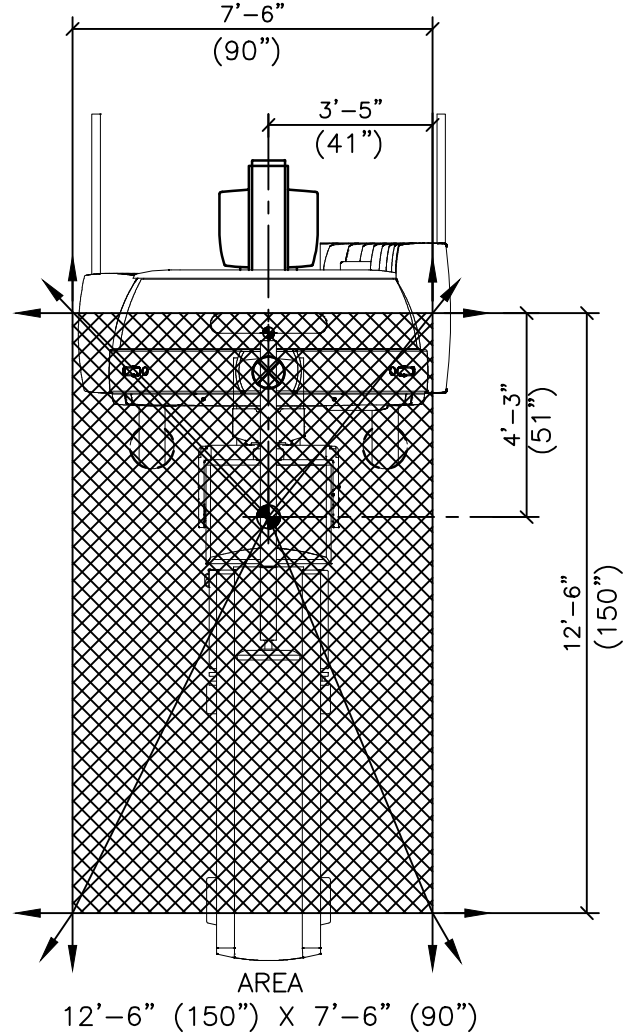
PREPARATION/PROCEDURE FOR FLOOR LEVELING AND FLATTENING

PREPARATION LEVELING AND FLATTENING THE FLOOR AREA

THE SCANNER ROOM FLOOR MUST BE LEVELED AND THE SURFACE MUST BE SMOOTH. ANY DEVIATION IN LEVELS WILL HAVE A DETRIMENTAL EFFECT ON THE PATIENT HANDLING TABLE (PHS) TO THE GENTRY ALIGNMENT WHICH MAY EFFECT COLLIMATOR EXCHANGE.

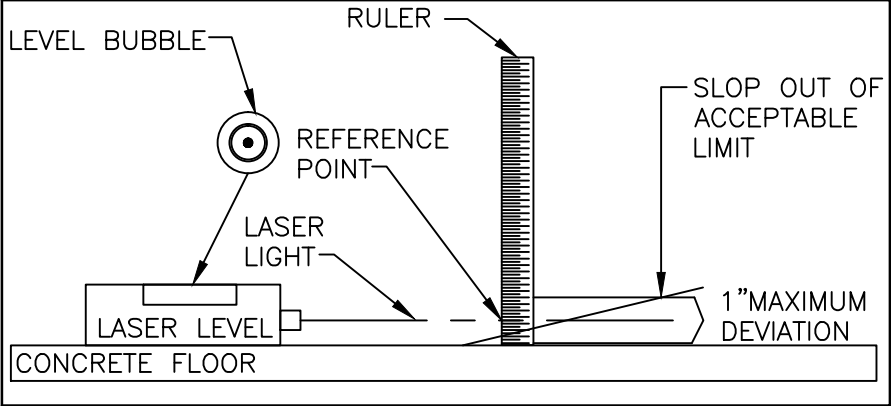
IT IS RECOMMENDED THAT THE FLOOR IN THE ENTIRE ROOM WILL BE LEVELED AND FLATTENED ACCORDING TO THE SIEMENS SPECIFICATIONS GIVEN BELOW. IT IS IMPERATIVE THAT THE SYSTEM INSTALLATION AREA, AS INDICATE BY THE HATCH AREA BELOW, IS LEVELED AND FLATTENED.

UPON COMPLETION OF THE INSTALLATION FLOOR AREA, VERIFY THE SURFACE FLATNESS, USING A STRAIGHT EDGE 4'-0" IN LENGTH OR LONGER.



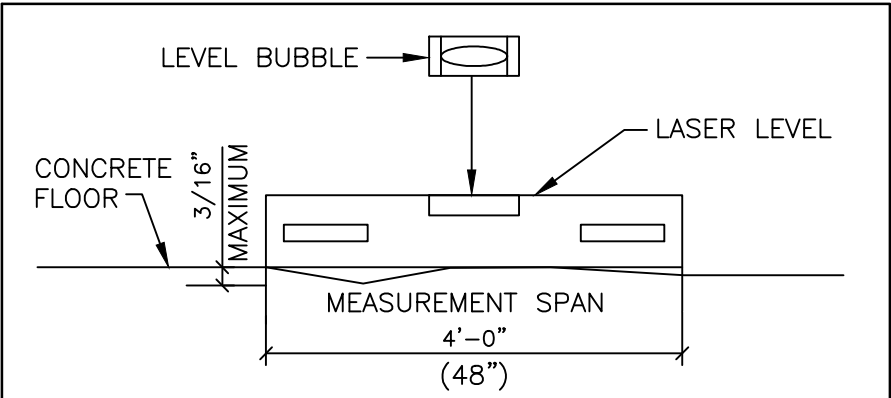
LEVELING SPECIFICATIONS	
FLOOR LEVELING AREA	12'-6" (150") X 7'-6" (90").
SLOPE	WITHIN ±1" OVER 12'-6" (150").
FLATNESS	FLOOR SURFACE SHOULD BE SMOOTH AND HAVE NO MORE THAN 3/16" DEVIATION IN ANY 4'-0" (48") THROUGHOUT THE SCANNER ROOM OR SYSTEM INSTALLATION AREA.
FLOOR SURFACE	FLOOR SHOULD HAVE ONE SINGLE POURED SURFACE. NO FILL MATERIAL SHOULD BE USED TO COMPENSATE FOR HOLES OR DEPRESSIONS IN THE FLOOR SURFACE.

- FLOOR CHECKING PROCEDURE
- THIS PROCEDURE PROVIDES DETAILS ON HOW TO VERIFY THAT THE FLOOR IS BOTH FLAT AND LEVEL BEFORE SYSTEM INSTALLATION BEGINS. THIS PROCEDURE SHOULD BE COMPLETE BY THE SIEMENS PROJECT MANAGER AND CUSTOMER/CONTRACTOR. MEASUREMENTS SHOULD BE TAKEN LEFT TO RIGHT OR RIGHT TO LEFT, FRONT TO BACK OR BACK TO FRONT AND DIAGONALLY IN EITHER DIRECTION. REFER TO THE DIAGRAM ON THE LEFT.
- SLOPE – FLOOR SLOPE SHOULD BE WITHIN ±1" OVER 12'-6" (150")
- 1) PLACE LASER LEVEL ON FLOOR.
- 2) MAKE SURE THAT THE LASER LEVELING DEVICE IS ABSOLUTELY LEVEL.
- 3) TURN ON LASER.
- 4) USE A RULE TO MEASURE THE HEIGHT OF THE LASER LIGHT FROM THE FLOOR NEXT TO THE LASER LEVEL. THIS IS REFERENCE POINT ON THE RULER FOR ALL OTHER MEASUREMENTS.
- 5) KEEP THE LASER ON AND USE A RULE TO MEASURE THE HEIGHT OF THE LASER LIGHT BEAM AT VARIOUS POINTS 12'-6" (150") FROM THE LASER. THE MEASUREMENT FROM THE FLOOR SHOULD BE WITHIN 1" OF THE ORIGINAL LASER LIGHT REFERENCE POINT. REPEAT AT VARIOUS POINTS AND DIRECTIONS REPRESENTED AS HATCH AREA IN THE DIAGRAM TO THE LEFT.



FLATNESS – FLOOR SURFACE SHOULD BE SMOOTH AND HAVE NO MORE THEN 3/16" DEVIATION IN ANY 4'-0" (48") SEGMENT IN ENTIRE THE SCANNER ROOM AREA.

1) VERIFY SURFACE FLATNESS FOR THE ENTIRE SCANNER ROOM AREA, USE STRAIGHT EDGE OR BUBBLE LEVEL THAT IS 4'-0" (48") LONG.



IT IS THE CUSTOMER/CONTRACTOR'S RESPONSIBILITY IF ANY MEASUREMENT OUT OF ACCEPTABLE LIMITS ARE AN INDICATION THAT THE FLOOR NEEDS TO BE LEVELED WITH SOME SORT OF LEVELING COMPOUND.

WHERE THE UNACCEPTABLE DEVIATION EXIST, THE WHOLE (MINIMUM SYSTEM AREA) SHOULD BE RE-SUFACED.

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SYMBOLS

05/26/15

REVISED WALL BACKGROUND PER CUSTOMER NEW CAD BACKGROUND.

SYMBOLS

03/27/15

REVISED WALL BACKGROUND PER CUSTOMER REQUEST.

SYMBOLS

03/07/14

R-101RB VERSION DATED 06/08/11 APPROVED BY THE CUSTOMER FOR FINALS.

SYM

DATE

DESCRIPTION

—ISSUE BLOCK—

SCALE: AS NOTED

REF. # 50143923

DATE: 05/26/15

PROJECT #: 1400791

SHEET 4 OF 6

DRAWN BY: R. HILL

REPLACES: 0900425

SCANNER ROOM C158 — SYMBIA T6

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SIEMENS

VA MARTINEZ 612

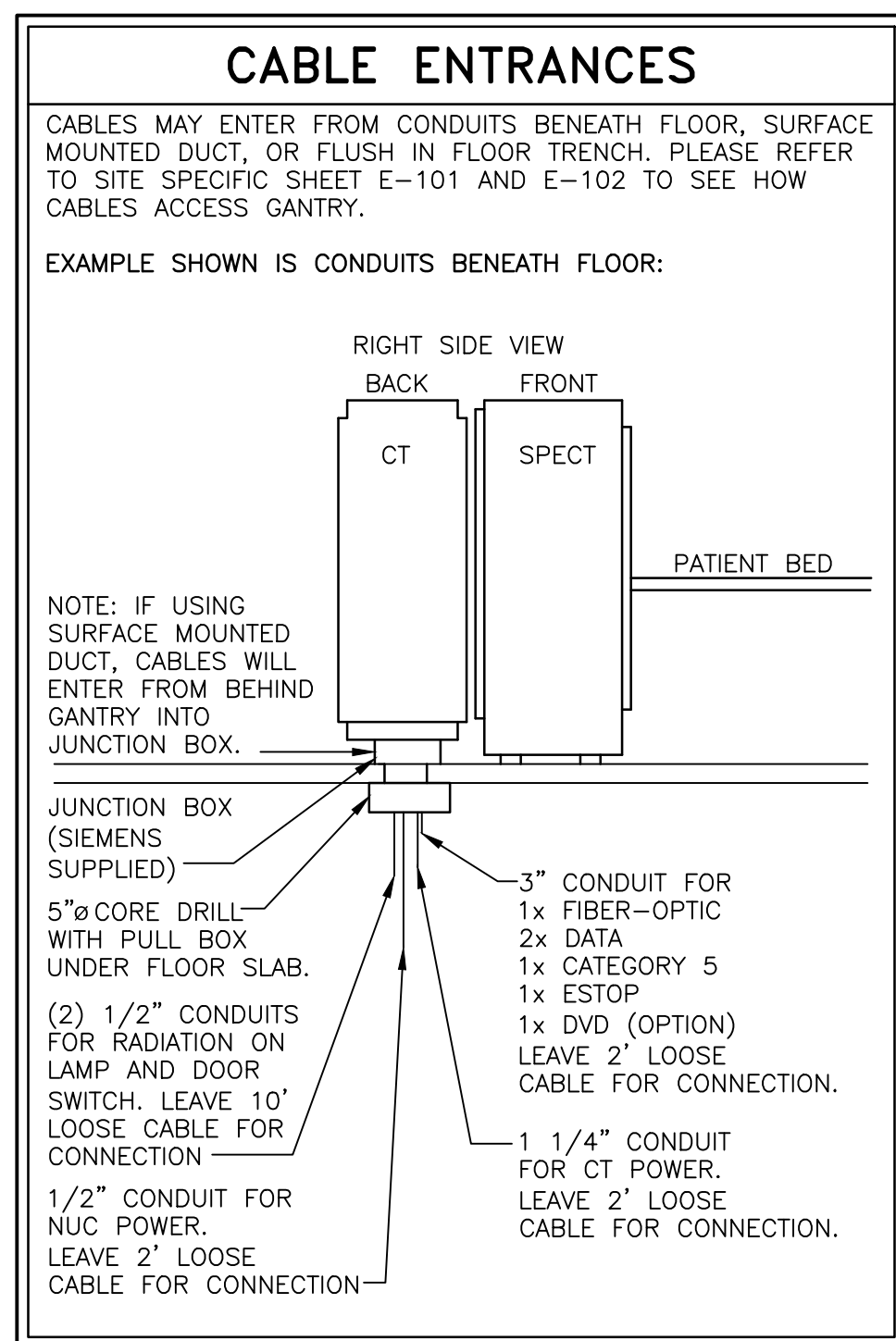
150 MUIR ROAD, MARTINEZ, CA 94553

SCANNER ROOM C158 — SYMBIA T6

SHEET: S-501

SYMBIA T, T2, T6, T16
REV 4

ELECTRICAL RACEWAY PLAN



ATTENTION:

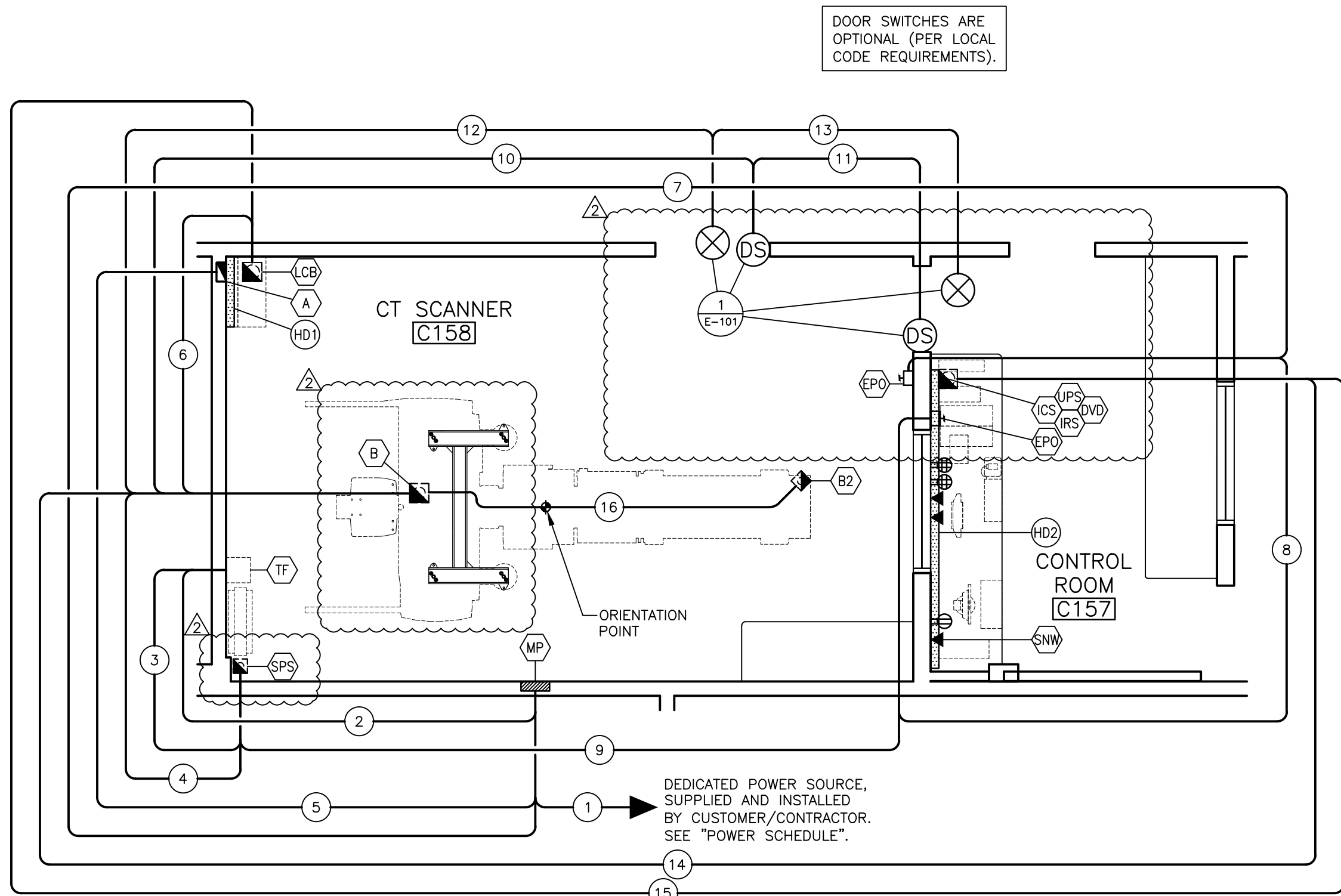
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— IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

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

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



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

SIEMENS SUPPLIED CABLES

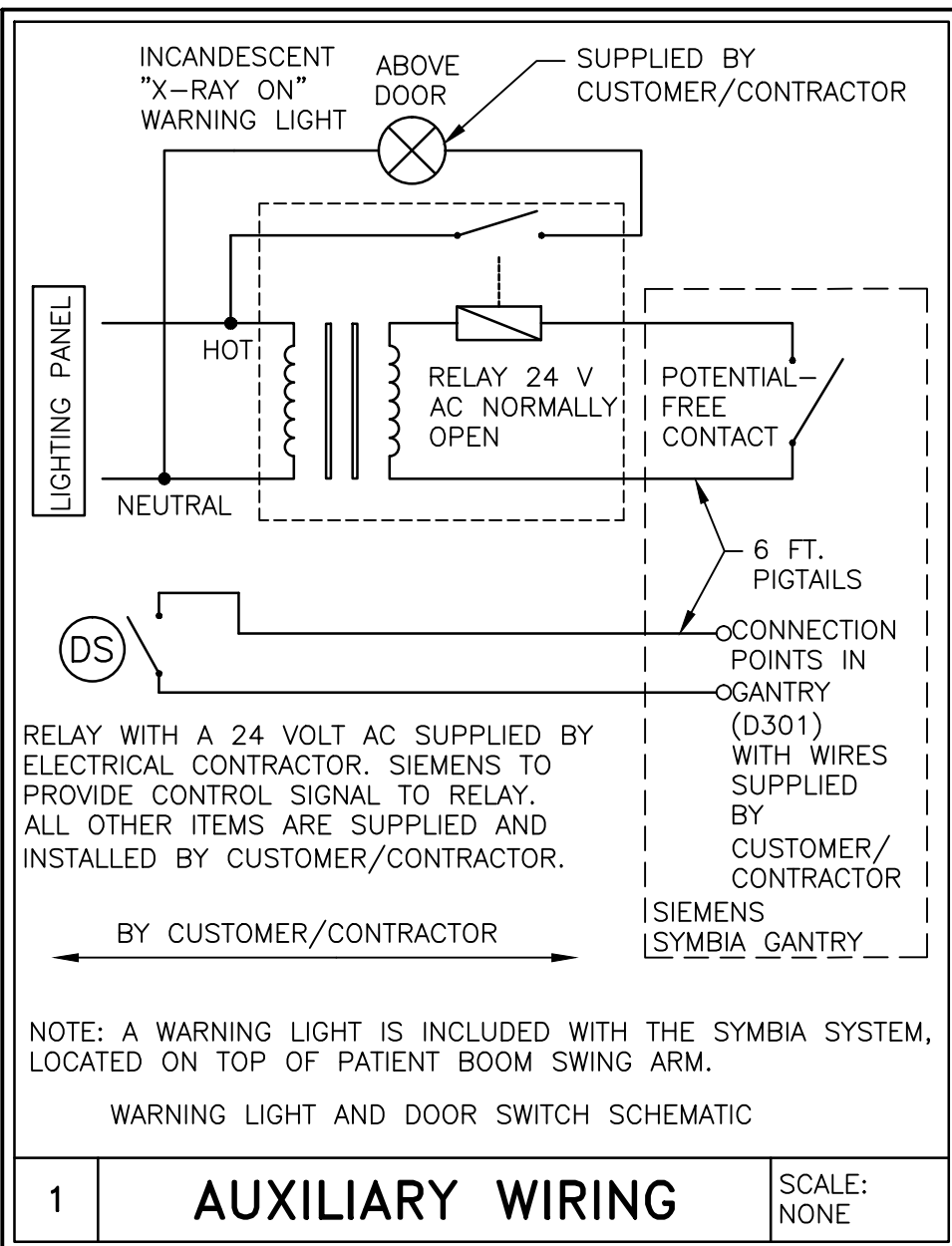
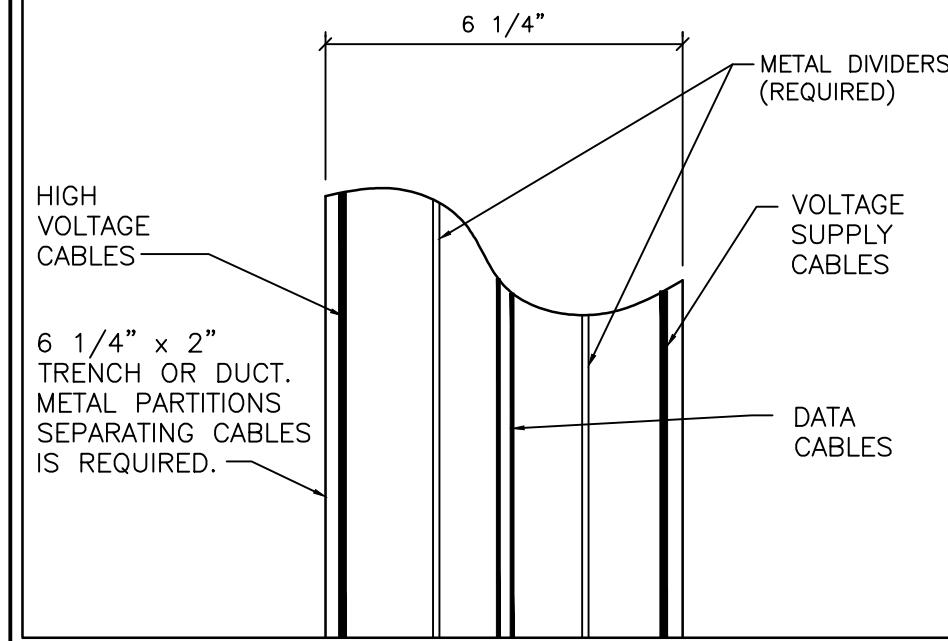
FROM	VIA	TO	DESCRIPTION	REMARKS
ICS/IRS	14	B	POWER CABLE: 300V.	MAXIMUM LENGTH 82'-0"
ICS/IRS	14	B	CAT 5 CROSS OVER CABLE: 150V.	MAXIMUM LENGTH 82'-0"
ICS/IRS	14	B	UNMARKED CABLE.	MAXIMUM LENGTH 82'-0"
ICS/IRS/DVD	14	B	DVD CABLE, DATA CABLE, FIBER CABLE: 30V.	MAXIMUM LENGTH 82'-0"
LCB	15	UPS	POWER CABLE: 300V.	MAXIMUM LENGTH 82'-0"
B	16	B2	PHS CABLE, POWER CABLE: 300V.	MAXIMUM LENGTH 20'-0"

TRENCH/DUCT REQUIREMENTS

IF USING TRENCH OR SURFACE MOUNT DUCT, VOLTAGE SUPPLY CABLES AND/OR HIGH VOLTAGE CABLES MUST BE LAID SEPARATELY FROM THE DATA CABLES. 6 1/4" x 2" TRENCH OR DUCT MUST BE SUPPLIED WITH 2 METAL DIVIDERS TO KEEP CABLES SEPARATED.

HIGH VOLTAGE AND SUPPLY CABLES:
ON SITE POWER LINE CABLE TO THE SYMBIA T, T2, T6 OR T16 SYSTEM.

FOR SYMBIA T, T2, T6 AND T16 SYSTEMS:
THE VOLTAGE SUPPLY CABLE FROM THE LCB TO THE JUNCTION BOX FOR THE GANTRY.



AUXILIARY WIRING

SCALE: NONE

ELECTRICAL LEGEND

SYM	SIZE	DESCRIPTION	REMARKS
AS REQUIRED	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	ANCILLARY WIRING
8" x 8"	8" x 8"	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 5" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	GANTRY CABLE ACCESS
6" x 6"	6" x 6"	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 3" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION. SIEMENS SUPPLIED COVER.	PHS CABLE ACCESS UNDER THE PHS
---	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	
---	---	EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER, MOUNTED ON WALL AT 5'-0" ABOVE FINISH FLOOR THAT PREVENTS RESETTING OF CIRCUIT BREAKER WHEN IN THE OFF POSITION. THERE SHALL BE AN EPO IN EACH ROOM OF THE SUITE WHERE SIEMENS EQUIPMENT IS LOCATED, EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR, SUPPLIED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
AS REQUIRED	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 6" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	IMAGE CONSTRUCTION SYS
---	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	IMAGE RECONSTRUCTION SYS
AS REQUIRED	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 6" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	LINE CONNECTION BOX
---	---	MAIN PANEL WITH MAIN BREAKER FLUSH OR SURFACE MOUNTED. REFER TO POWER SCHEDULE.	SEE POWER SCHEDULE
---	---	ETHERNET CONNECTION TO HOSPITAL NETWORK, EXACT LOCATION TO BE COORDINATED WITH SIEMENS PROJECT MANAGER.	SYMBIA.NET WORKPLACE
AS REQUIRED	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 3" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	UPS FOR SPECT
AS REQUIRED	AS REQUIRED	TRANSFORMER PROVIDING STEP DOWN POWER FOR THE SPECT UPS (SPS). EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR BASED ON LOCATION OF MP AND SPS. SUPPLIED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
---	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	
6" x 3 1/2"	6" x 3 1/2"	ELECTRICAL DUCT THAT RUNS HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN FOR EXCESS CABLE STORAGE.	RACEWAY
AS REQUIRED	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
AS REQUIRED	AS REQUIRED	CONDUIT FROM "MP" TO "TF" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
AS REQUIRED	AS REQUIRED	CONDUIT FROM "TF" TO "SPS" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
1/2"	1/2"	CONDUIT FROM "SPS" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	MAXIMUM CONDUIT LENGTH 76'-0"
1 1/4"	1 1/4"	CONDUIT FROM "MP" TO "A" (LCB) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
1 1/4"	1 1/4"	CONDUIT FROM "LCB" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	MAXIMUM CONDUIT LENGTH 76'-0"
AS REQUIRED	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
AS REQUIRED	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
AS REQUIRED	AS REQUIRED	CONDUIT FROM "EPO" TO "SPS" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
1/2"	1/2"	CONDUIT FROM "B" TO "DOOR SAFETY SWITCH" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
AS REQUIRED	AS REQUIRED	CONDUIT FROM "DOOR SAFETY SWITCH" TO "DOOR SAFETY SWITCH" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
1/2"	1/2"	CONDUIT FROM "B" TO "WARNING LIGHT" (X-RAY ON) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
AS REQUIRED	AS REQUIRED	CONDUIT FROM "WARNING LIGHT" (X-RAY ON) TO "WARNING LIGHT" (X-RAY ON) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
(2) 3"	(2) 3"	CONDUIT "B" TO "ICS".	MAXIMUM CONDUIT LENGTH 76'-0"
1 1/2"	1 1/2"	CONDUIT FROM "LCB" TO "UPS".	MAXIMUM CONDUIT LENGTH 76'-0"
3"	3"	CONDUIT FROM "B" TO "B2".	MAXIMUM CONDUIT LENGTH 14'-0"

CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
POWER SOURCE	1	MP	3-PHASE CONDUCTORS, 1 NEUTRAL AND GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	2	TF	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
TF	3	SPS	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
SPS	4	B	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	5A	LCB	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
LCB	6	B	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	7	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	8	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	9	SPS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
B	10	DOOR SAFETY SWITCH	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
DOOR SAFETY SWITCH	11	DOOR SAFETY SWITCH	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
B	12	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
WARNING LIGHT	13	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101

FINISHED ROOM HEIGHT

SYMBIA T, T2, T6 OR T16	MINIMUM 8'-0"
SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-0" MAXIMUM 12'-0"

CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.

ELECTRICAL NOTES

1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY TO ANSI, IEEE AND NEMA STANDARDS. WHERE APPLICABLE, PROVIDE ONLY MATERIALS AND PRODUCTS THAT ARE U.L. LISTED AND LABELED. CUSTOMER'S/CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF NECA STANDARD OF INSTALLATION.

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

3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS MEDICAL SOLUTIONS EQUIPMENT SHALL BE DEDICATED SERVICES KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING AND EQUIPMENT, SUCH AS: ELEVATORS, GENERATORS, PUMPS, HVAC SYSTEMS, ETC. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER/UTILITY COMPANY FIELD REPRESENTATIVE.

4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS MEDICAL SOLUTIONS BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES THE FOLLOWING BUT IS NOT LIMITED TO UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.

5) RACEWAY AND CONDUIT NOTES: RACEWAY SHALL BE ELECTRIC RIGID 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 346-10 OF THE NATIONAL ELECTRICAL CODE. PROVIDE A JETLINE "SUPER TRUE TAPE", OR EQUIVALENT CONDUIT MEASURING TAPE FISH LINE IN ALL RACEWAYS AND CONDUITS. CONDUIT BODIES SHALL NOT BE USED. WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROUGH CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. CONNECTORS SHALL BE DOUBLE SET SCREW TYPE, STEEL CONCRETE TIGHT.

KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY. CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS MEDICAL SYSTEMS CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS.

PROVIDE ENCLOSED METAL RACEWAY SYSTEM (WIRE DUCT) WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT (FOR POWER AND SIEMENS MEDICAL SOLUTIONS CABLEING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. FOR UL CERTIFIED SYSTEMS, THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM INVESTIGATION OF THIS EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS, AS THEY CAN BE IN THE SAME RACEWAY. PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF OPENINGS TO BE CUT IN FIELD ARE TO BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. IN- FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.

6) WIRING: WIRING SHALL BE INSTALLED IN METAL RACEWAY, 600 VOLT CLASS, STRANDED TYPE THHN-THWN, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 75° C (165° F), SIZED AS INDICATED. THE CUSTOMER/CONTRACTOR SHALL LEAVE MINIMUM 10 FT. WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY SIEMENS MEDICAL SOLUTIONS.

7) IN ADDITION TO THE CIRCUIT BREAKER LOAD CURRENT RATING, CONSIDERATION MUST ALSO BE GIVEN TO SELECTING CIRCUIT BREAKERS THAT HAVE A HIGH ENOUGH SHORT CIRCUIT CURRENT WITHSTAND RATING TO SAFELY COORDINATE WITH THE POWER SYSTEM AVAILABLE SHORT CIRCUIT CURRENT. GENERALLY, WHEN THE 480 VOLT, 3 PHASE, X-RAY EQUIPMENT IS SERVED FROM A POWER SUPPLY SYSTEM THAT IS PROVIDED WITH A 500 KVA OR SMALLER TRANSFORMER, A STANDARD 14,000 RMS AMPERE WITHSTAND RATED CIRCUIT BREAKER WILL BE ADEQUATE. HOWEVER, IF THE POWER SUPPLY SYSTEM TRANSFORMER IS LARGER THAN 500 KVA, THEN THE CIRCUIT BREAKERS HAVING A SHORT CIRCUIT WITHSTAND RATING GREATER THAN 14,000 RMS AMPERES MAY BE REQUIRED.

SYMBIA T, T2, T6, T16
REV. 4

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SIEMENS

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SCANNER ROOM C158 - SYMBIA T6

PROJECT #: REPLACES: 0900425

1400791

SHEET: 5 OF 6
DRAWN BY: R. HILL

E-101

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SCALE: AS NOTED
REF. # 0143923

DATE: 05/26/15

