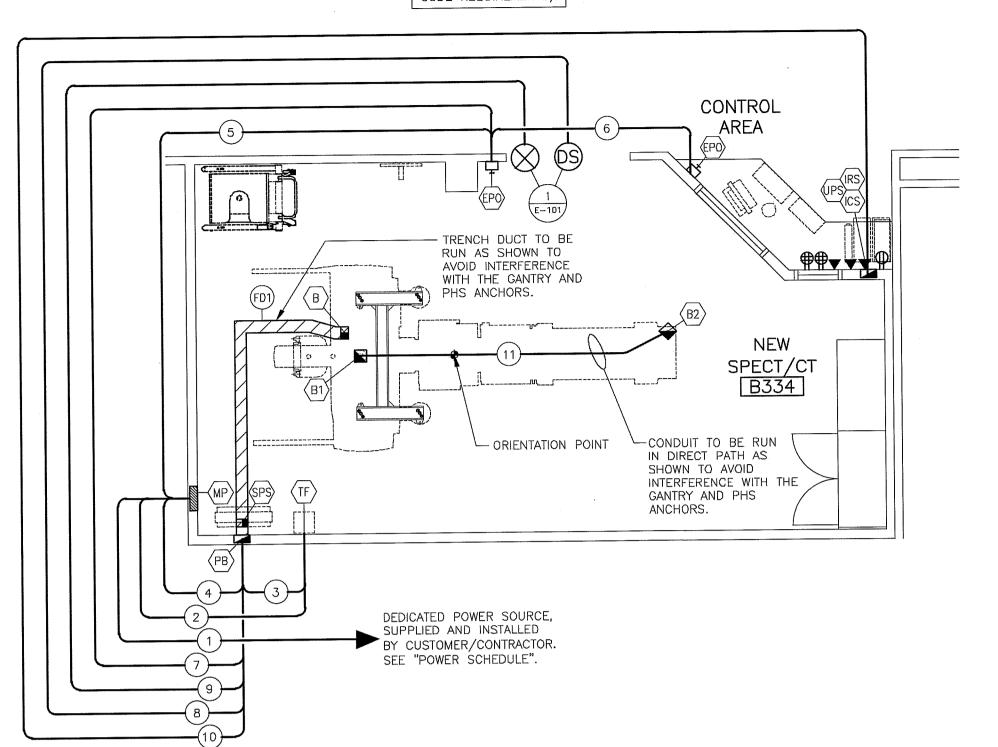
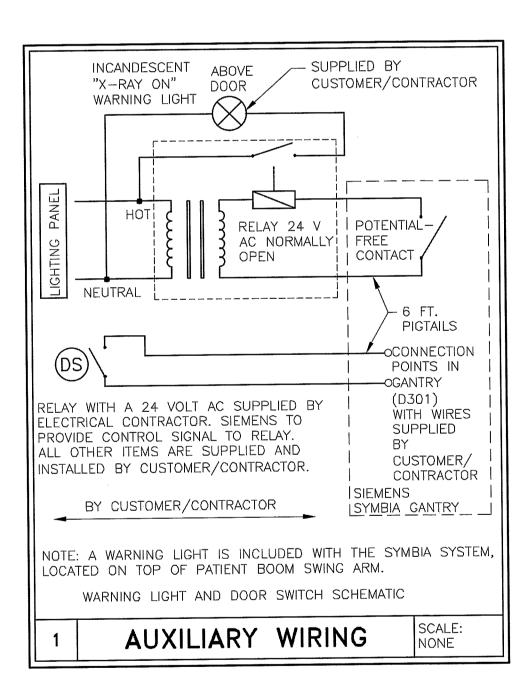
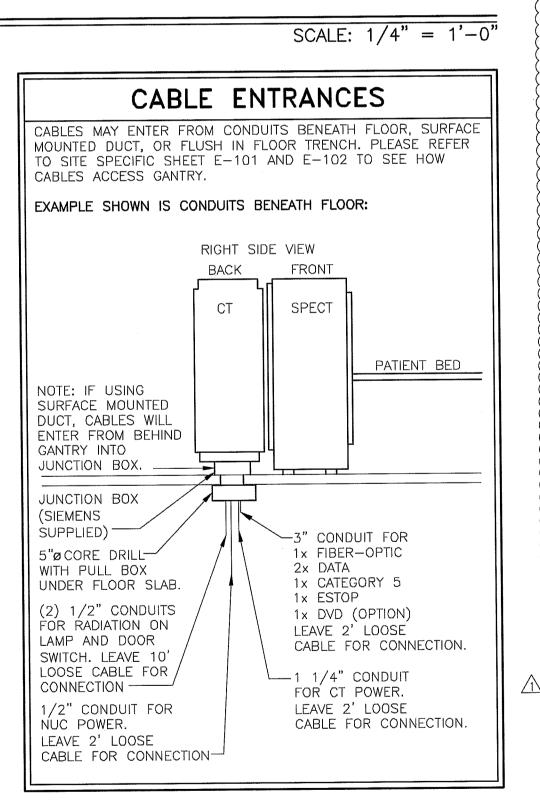
DOOR SWITCHES ARE OPTIONAL (PER LOCAL CODE REQUIREMENTS).



ELECTRICAL RACEWAY PLAN

TRENCH/DUCT REQUIREMENTS F 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. 6 1/4" - METAL DIVIDERS (REQUIRED) – VOLTAGE VOLTAGE SUPPLY CABLES -CABLES 6 1/4" x 2" TRENCH OR DUCT. METAL PARTITIONS SEPARATING CABLES CABLES IS REQUIRED.





		ELECTRICAL LEGEND		
SYM	SIZE	DESCRIPTION	REMARKS	
JIW	0,25	SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	,	
B	6" x 4"	OPENING IN TOP OF FLUSH MOUNTED RACEWAY IN SHOWN LOCATION.	GANTRY CABLE ACCESS	
(B)	6" x 6" PULL BOX MOUNTED FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION PROVIDED WITH 3"Ø OPENING IN FINISHED COVER.		PHS CABLE ACCESS UNDER THE GANTRY	
(B2)	6" × 6"	PULL BOX MOUNTED FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION PROVIDED WITH 3"Ø OPENING IN FINISHED COVER.	PHS CABLE ACCESS UNDER THE PHS	
₩	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	
(CS)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	IMAGE CONSTRUCTION SYS	
(RS)			IMAGE RECONSTRUCTION SY	
₩		MAIN PANEL WITH MAIN BREAKER FLUSH OR SURFACE MOUNTED. REFER TO POWER SCHEDULE.	SEE POWER SCHEDULE	
®	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION. DIVIDE AS NECESSARY AND PROVIDE FULL, CLEAR ACCESS INTO TRENCH DUCT.	FOR TRANSITIONING CABLES IN CONDUITS IN WALL INTO TRENCH DUCT.	
\$ ₽\$	6" x 4"	OPENING IN TOP OF FLUSH MOUNTED TRENCH IN SHOWN LOCATION.	UPS FOR SPECT	
TD 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/CONTACTOR.	SEE POWER SCHEDULE	
(PS)		FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.		
(P)	6 1/4" x 2"	ELECTRICAL DUCT THAT IS MOUNTED FLUSH WITH FINISHED FLOOR (TRENCH DUCT) AND PARALLEL WITH THE FLOOR SLAB IN SHOWN LOCATION. PROVIDED WITH WATERPROOF, REMOVABLE COVERS FINISHED TO MATCH FLOORING. DUCT TO BE DIVIDED INTO THREE SECTIONS WITH METAL DIVIDERS.		
(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" BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE	
3	AS REQUIRED	CONDUIT FROM "TF" TO "PB" (SPS) BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE	
4)	1 1/4"ø	CONDUIT FROM "MP" TO "PB" (B) BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE	
(5)	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE	
6)	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE	
(7)	AS REQUIRED	CONDUIT FROM "EPO" TO "PB" (SPS) BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE	
8	1/2"ø	CONDUIT FROM "PB" (B) TO "DOOR SAFETY SWITCH" BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101	
9	1/2"ø	CONDUIT FROM "PB" (B) TO "WARNING LIGHT" (X-RAY ON) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101	
10	(2) 3"ø	CONDUIT "PB" (B) TO "ICS/IRS".	MAXIMUM CONDUIT LENGTH 69'-0"	
(1)	3"ø	CONDUIT FROM "B1" TO "B2".	MAXIMUM CONDUIT LENGTH	

		TRACTOR SUPPLIED CABLES		
FROM	VIA	то	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		POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
TF	3,PB,FD1	SPS	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
SPS	FD1	В	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	4,PB,FD1		POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	5	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	6	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	7,PB,FD1	SPS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
В	FD1,PB,8	DOOR SAFETY SWITCH	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
В	FD1,PB,9	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101

SIEMENS SUPPLIED CABLES					
FROM	VIA	то	DESCRIPTION	REMARKS	
CS/IRS	10, PB, FD1	В	POWER CABLE: 300V.	MAXIMUM LENGTH 82'-0"	
ICS/IRS	10, PB, FD1	В	CAT 5 CROSS COVER CABLE: 150V.	MAXIMUM LENGTH 82'-0"	
ICS/IRS	10, PB, FD1	В	UNMARKED CABLE.	MAXIMUM LENGTH 82'-0"	
B1	11 .	B2	PHS CABLE, POWER CABLE: 300V.	MAXIMUM LENGTH 20'-0"	

ELECTRICAL NOTES

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

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

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

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

5) RACEWAY AND CONDUIT NOTES: RACEWAY SHALL BE ELECTRIC METALLIC TUBING (EMT) FOR RIGID 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 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 O CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE U 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. 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° (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.

FINISHED ROOM HEIGHT

SYMBIA T, T2, T6 OR T16 MINIMUM 8'-0" SYMBIA T, T2, T6 OR T16 WITH MINIMUM 8'-0" CEILING MOUNTED COMPONENT MAXIMUM 12'-0" OTHER THAN RADIATION ON LAMP 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: RICH DEISTER (207) 712-3205 FAX: (207) 929-3776 EMAIL: rich.deister@siemens.com

AS NOTED

REVISED ELECTRICAL AND REMOVED

SYMBIA T PROCESSING WORKPLACE

R-101R(A) VERSION DATED 12/20,

APPROVED BY THE CUSTOMER FOR FINALS

DESCRIPTION

-ISSUE BLOCK-

DATE

SIEMENS

MAINE MEDICAL CENTER 22 BRAMHALL STREET, PORTLAND, ME 04102 NEW SYMBIA SUITE - SYMBIA T

THE USE OR REPRODUCTION OF PROJECT #: THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL 1303838

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.

RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW. ALL RIGHTS ARE RESERVED. M. COPLEY REF. #: 400-347620 01/14/14

SYMBIA T, T2, T6, T16 REV 2