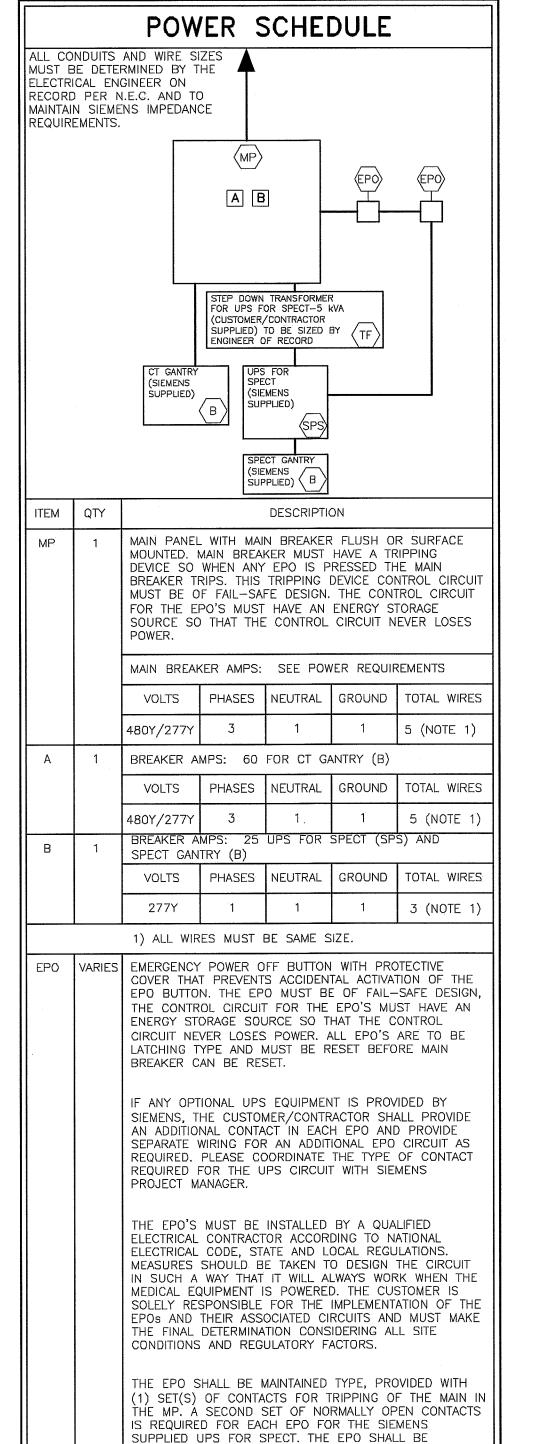


ELECTRICAL DIMENSION PLAN

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



### CONDUIT LENGTH CALCULATIONS F SITE SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED

VALUES THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS 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					
$\otimes$	WARNING LIGHT (X-RAY ON)					
(DS)	DOOR SAFETY SWITCH					
Ю	(EPO) EMERGENCY POWER OFF BUTTON					
	TRENCHDUCT					
	CEILING DUCT					
	UNDER FLOOR DUCT					
	SURFACE DUCT					
$\boxtimes$	VERTICAL DUCT ,					
<b>&gt;</b>	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).					
$\Box$	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.					

## RE-INSTALLATION OF CABLES

ATTENTION! THE ORIGINAL INTERCONNECTING CABLES AND HIGH TENSION CABLES WILL BE USED FOR THIS EQUIPMENT RE-INSTALLATION TO THE EXTENT POSSIBLE. SHOULD ADDITIONAL CABLES BE REQUIRED, SIEMENS WILL SUPPLY THE CABLES AT THE CUSTOMER'S EXPENSE.

# POWER REQUIREMENTS

1 0	/ <b>**</b> L ! \	KEQUII			
SYSTEM	LINE VOLTAGE (VOLTS)	POWER CONSUMPTION (kVA) SEE NOTE BELOW		$\begin{array}{c} \text{INCOMING} \\ \text{LINE} \\ \text{IMPEDANCE} \\ \text{(m} \stackrel{\textstyle \Omega}{}) \end{array}$	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 CONSUMTPTION = 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

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

O 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

FINISHED ROOM HEIGHT

MINIMUM 8'-0"

MINIMUM 8'-0"

MAXIMUM 12'-0"

CONNECTED IN PARALLEL WITH THE (2) SETS OF

OPEN/NORMALLY CLOSED) WILL TRIP THE MAIN

ALL ITEMS LISTED IN THIS SCHEDULE SHALL BE SUPPLIED AND

CONTACTS, THEREBY WHEN ANY EPO IS ACTIVATED, THE NORMALLY OPEN CONTACT WILL CLOSE SHUTTING DOWN THE UPS FOR SPECT. THE OTHER CONTACT (NORMALLY

SYMBIA T, T2, T6 OR T16 SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP

BREAKER.

INSTALLED BY CUSTOMER/CONTRACTOR.

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.

REVISED ELECTRICAL AND REMOVE SYMBIA T PROCESSING WORKPLACE SIEMENS AUTHORIZATION WILL R-101R(A) VERSION DATED 12/20 RESULT IN PROSECUTION UNDER APPROVED BY THE CUSTONER FOR FINA FULL EXTENT OF THE LAW. DATE DESCRIPTION

(207) 712-3205 FAX: (207) 929-3776 EMAIL: rich.deister@siemens.com

PROJECT MANAGER: RICH DEISTER

# **SIEMENS**

SYMBIA T, T2, T6, T16

REV 2

MAINE MEDICAL CENTER 22 BRAMHALL STREET, PORTLAND, ME 04102

NEW SYMBIA SUITE - SYMBIA T THE USE OR REPRODUCTION OF PROJECT #: THIS TITLE BLOCK WITHOUT

1303838 M. COPLEY

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.

-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.

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

-ISSUE BLOCK-

ALL RIGHTS ARE RESERVED. REF. #: 400-347620 AS NOTED

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