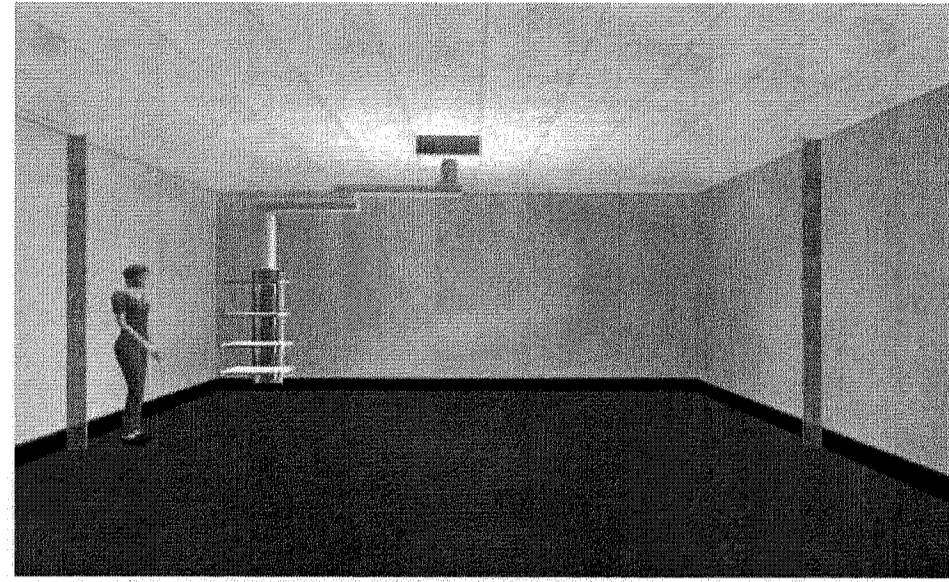


Equipment Drawings

SHT. NO.	CONTENTS
1	Table of Contents
2	Elevation & Plan Overviews
3	Support Structure
4	Canopy Mount Details
5	Bolt Hole Pattern
6	Engineering Requirements
7	Electrical Details
8	Gas Details
9	Air Requirements - Pneumatic Brake
10	Ceiling Access

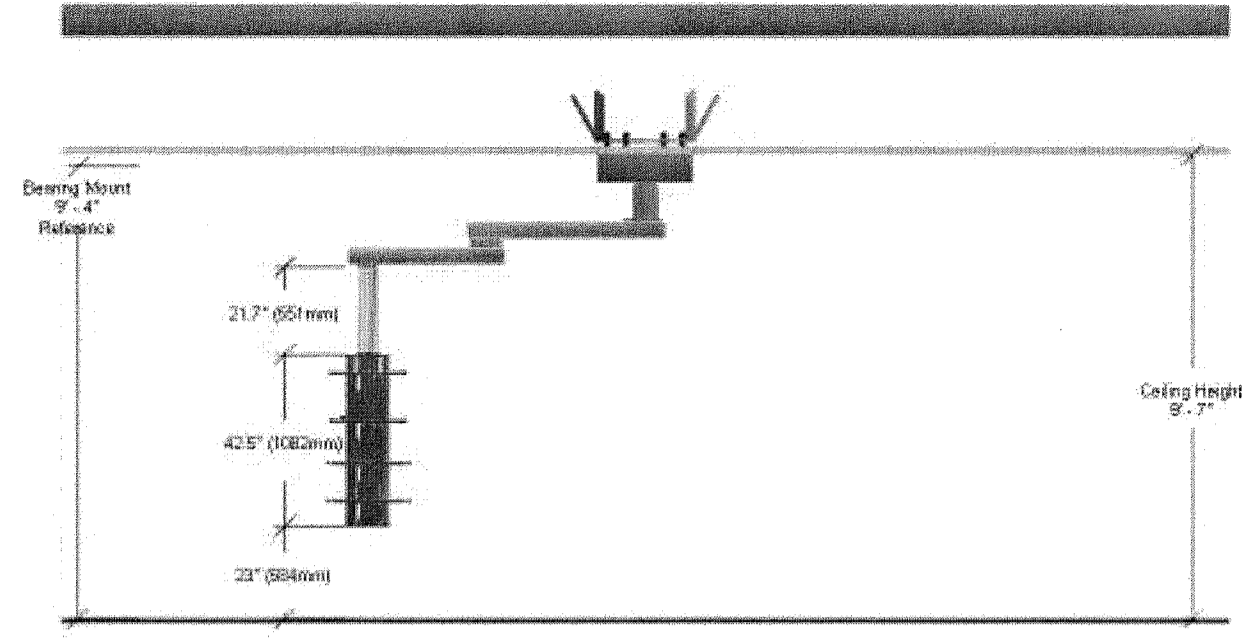


THIS SIGNATURE CONFIRMS EQUIPMENT SPECIFICATIONS AND CEILING HEIGHT CONTAINED IN THIS DOCUMENT AND ACKNOWLEDGES THAT ANY CHANGES MAY RESULT IN ADDITIONAL FEES AND DELAYED DELIVERY.

TITLE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_

- STERIS RECOMMENDS INSTALLATION DURING EARLY PHASE OF CONSTRUCTION.
- STERIS ASSUMES NO RESPONSIBILITY FOR CHANGES MADE NECESSARY THROUGH FAILURE TO OBSERVE INSTALLATION INSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO INSURE THAT UNITS ARE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODE.

ALL DIMENSIONS ARE IN INCHES ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS <b>STERIS</b> STERIS Corporation Mentor, OH	<b>TITLE SHEET AND TABLE OF CONTENTS</b>		ACCOUNT NAME Maine Medical Center
	Cath Lab Harmony EMS 70°Dbl Fixed Arm with 40°Lite Column		ACCOUNT LOCATION Portland, ME
	FILE NAME CATH LAB_Philips 70 Lite with 40 Lite Column	ACCOUNT LOCATION Portland, ME	ACCOUNT NAME Maine Medical Center
	PRINTED DATE 8/13/2010	SHEET 1 of 10	ACCOUNT LOCATION Portland, ME



Rotational Limits 0-330 degrees.

Mount #1	Arm Description	Load (lbs)	Moment (ft-lbs)
	Harmony EMS 70°Dbl Fixed Arm with 40°Lite Column	1012	4875
TOTAL:		1012	4875

ALL DIMENSIONS ARE IN INCHES ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS <b>STERIS</b> STERIS Corporation Mentor, OH	<b>ELEVATION AND PLAN OVERVIEWS</b>		ACCOUNT NAME Maine Medical Center
	Cath Lab Harmony EMS 70°Dbl Fixed Arm with 40°Lite Column		ACCOUNT LOCATION Portland, ME
	FILE NAME CATH LAB_Philips 70 Lite with 40 Lite Column	ACCOUNT LOCATION Portland, ME	ACCOUNT NAME Maine Medical Center
	PRINTED DATE 8/13/2010	SHEET 2 of 10	ACCOUNT LOCATION Portland, ME

CAD DWG DATE 04-15-08 DRAWN BY G.J. CHECKED BY G.W. ECA 084228 REV DATE 11-20-08 REV NO. 1 DWG NO. 129387-438

Ø22.50  
NOTE: NO KICKER, OR SLAG INSIDE THIS AREA

STRUCTURAL MOUNT & BRACING (PROVIDED BY OTHERS). STRUCTURAL MOUNT & BRACING SHOULD BE DESIGNED BY A STRUCTURAL ENGINEER IN ACCORDANCE WITH APPLICABLE LOCAL BUILDING CODES. CONSULT A STRUCTURAL ENGINEER.

HARMONY CEILING FLANGE (PROVIDED BY STERIS)

\*ALL THREAD KITS ARE INCLUDED FOR CS ORDERS ENGINEERED AFTER 11-01-08

NOTE:  
1 SET MOUNTING HARDWARE SHOWN  
6 SETS REQUIRED - PROVIDED BY STERIS\*  
7/8-9 X16" TH. ROD ASTM A193 GRADE B7 OR EQUIVALENT  
7/8-9 UNC HEX NUT ASTM A194 GRADE 2H  
7/8 HARDENED STEEL FLAT WASHER ASTM F436  
7/8 STEEL LOCK WASHER

ALL DIMENSIONS ARE IN INCHES ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS <b>STERIS</b> STERIS Corporation Mentor, OH	<b>SUPPORT STRUCTURE DETAIL</b>		ACCOUNT NAME Maine Medical Center
	Cath Lab Harmony EMS 70°Dbl Fixed Arm with 40°Lite Column		ACCOUNT LOCATION Portland, ME
	FILE NAME CATH LAB_Philips 70 Lite with 40 Lite Column	ACCOUNT LOCATION Portland, ME	ACCOUNT NAME Maine Medical Center
	PRINTED DATE 8/13/2010	SHEET 3 of 10	ACCOUNT LOCATION Portland, ME

CAD DWG DATE 08-21-08 DRAWN BY G.J. CHECKED BY G.W. ECA 084592 REV DATE 05-09-09 REV NO. 0 DWG NO. 129387-466

5.00 MAX. [127mm]

3.00 MIN. [76mm]

8.00 MAX [203mm]

6.00 MIN. [152mm]

16.77 [426mm]

3.00 [76mm]

6.93 [176mm]

23.75 [600mm] SQUARE CANOPY HOOD

STRUCTURAL FRAMEWORK & STRUCTURAL MOUNTING PLATE (PROVIDED BY OTHERS)

FINISHED CEILING

HARMONY CEILING FLANGE (PROVIDED BY STERIS)

CANOPY HOOD (PROVIDED BY STERIS)

HARMONY BEARING (PROVIDED BY STERIS)

SEE INSTALLATION MANUAL FOR LEVELING PROCEDURE

NOTE:  
STRUCTURAL MOUNT PLATE HEIGHT IS SPECIFIC TO COMPONENTS SHOWN IN THIS DRAWING PACKAGE. DIFFERENT COMPONENT CONFIGURATIONS WILL REQUIRE DIFFERENT STRUCTURAL MOUNT PLATE HEIGHTS.

ALL DIMENSIONS ARE IN INCHES ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS <b>STERIS</b> STERIS Corporation Mentor, OH	<b>SUPPORT STRUCTURE MOUNTING HEIGHT</b>		ACCOUNT NAME Maine Medical Center
	Cath Lab Harmony EMS 70°Dbl Fixed Arm with 40°Lite Column		ACCOUNT LOCATION Portland, ME
	FILE NAME CATH LAB_Philips 70 Lite with 40 Lite Column	ACCOUNT LOCATION Portland, ME	ACCOUNT NAME Maine Medical Center
	PRINTED DATE 8/13/2010	SHEET 4 of 10	ACCOUNT LOCATION Portland, ME

CAD DWG DATE 04-15-08 DRAWN BY G.J. CHECKED BY G.W. ECA 084118 REV DATE 05-08-08 REV NO. 0 DWG NO. 129387-438

SINGLE MOUNT UNIT BOLT HOLE PATTERN

DRILL 15/16 THRU 12-REQ'D EQUALLY SPACED AS SHOWN ON Ø18.500 B.C.

30° TYP.

TANDEM MOUNT UNIT BOLT HOLE PATTERN

DRILL 15/16 THRU 12-REQ'D EQUALLY SPACED AS SHOWN ON Ø22.50 B.C.

10.63

Ø6.0 THRU HOLES 2-REQ'D

STRUCTURAL MOUNTING PLATE (PROVIDED BY OTHERS)

IMPORTANT:  
CORRECT ALIGNMENT OF THE BOLT HOLE PATTERN CENTERLINE IN CUSTOMER'S STRUCTURAL MOUNTING PLATE IS CRITICAL. THIS AFFECTS THE FINAL ALIGNMENT OF THE EMS ARMS AS WELL AS MATCHING THE CANOPY ORIENTATION TO CEILING LAYOUT. REFERENCE APPROPRIATE ENGINEERING, ARCHITECTURAL, OR STERIS PLAN DRAWING FOR APPROVED ALIGNMENT.

DESIRABLE UNDESIRABLE

1. STERIS RECOMMENDS INCORPORATING BOTH BOLT HOLE PATTERNS INTO THE STRUCTURAL MOUNTING PLATE. THIS ALLOWS THE ADDITION OF COMPONENTS IN THE FUTURE.

ALL DIMENSIONS ARE IN INCHES ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS <b>STERIS</b> STERIS Corporation Mentor, OH	<b>SUPPORT STRUCTURE BOLT HOLE PATTERN</b>		ACCOUNT NAME Maine Medical Center
	Cath Lab Harmony EMS 70°Dbl Fixed Arm with 40°Lite Column		ACCOUNT LOCATION Portland, ME
	FILE NAME CATH LAB_Philips 70 Lite with 40 Lite Column	ACCOUNT LOCATION Portland, ME	ACCOUNT NAME Maine Medical Center
	PRINTED DATE 8/13/2010	SHEET 5 of 10	ACCOUNT LOCATION Portland, ME

CAD DWG DATE 04-15-08 DRAWN BY G.J. CHECKED BY G.W. ECA 084118 REV DATE 05-08-08 REV NO. 0 DWG NO. 129387-438

STRUCTURAL MOUNT ENGINEERING DATA NOTES  
DESIGN OF THE EMS SUPPORT STRUCTURE IS CRITICAL TO SAFE, TROUBLE FREE OPERATION.

A. THE STRUCTURAL MOUNTING PLATE MUST BE FLAT, LEVEL AND MUST ADEQUATELY SUPPORT THE EMS SYSTEM CONFIGURATION TO BE INSTALLED.

B. MAXIMUM LOAD CONFIGURATIONS-STERIS RECOMMENDS A STRUCTURAL MOUNT THAT CAN ACCOMMODATE THE MAXIMUM LOAD CONFIGURATION TO ALLOW FOR THE ADDITION OF COMPONENTS IN THE FUTURE.  
TOTAL LOAD "F" ON THE STRUCTURAL MOUNTING PLATE:  
2,020 LBS (9,020 N)  
MAXIMUM MOMENT "M" AT THE STRUCTURAL MOUNTING PLATE:  
12,850 FT-LBS (17,400 Nm)  
(FOR MORE SPECIFIC LOADING INFORMATION REFERENCE PAGE 2)

C. MAXIMUM ACCEPTABLE HORIZONTAL DEFLECTION OF THE STRUCTURAL MOUNTING PLATE:  
0.1 INCHES (2.5mm) WITH A HORIZONTAL LOAD OF "H" OF 2,020 LBS (9,020 N)

D. MAXIMUM ACCEPTABLE ANGULAR DEFLECTION OF THE STRUCTURAL MOUNTING PLATE:  
1/3 OF A DEGREE WITH THE MAXIMUM MOMENT "M" APPLIED OF 12,850 FT-LBS (17,400 Nm)  
(FOR ZONE 4 REFERENCE THE APPROPRIATE SEISMIC REPORT)

E. IF SPACE BETWEEN "HARMONY BEARING PLATE" ON THE EMS UNIT (PROVIDED BY STERIS) AND STRUCTURAL MOUNTING PLATE (PROVIDED BY OTHERS) EXCEEDS THE ACCEPTABLE DIMENSIONAL RANGE SHOWN IN THIS EQUIPMENT DRAWING, AN "INTERMEDIATE SUPPORT PLATE (STIFFING PLATE) OR STRUCTURE" (PROVIDED BY OTHERS) IS REQUIRED. CONSULT THE STRUCTURAL ENGINEER OF RECORD.

F. TWO (2)-6.0 INCH DIAMETER ACCESS HOLES ARE REQUIRED IN THE CENTER OF THE STRUCTURAL MOUNTING PLATE (PROVIDED BY OTHERS), TO ALLOW THE ROUTING OF ELECTRICAL AND MEDICAL GAS UTILITIES.

NOTES:  
1) FOR THE MAXIMUM ALLOWABLE LOAD THAT CAN BE CARRIED ON EACH PENDANT COLUMN OR HEAD (CONSISTING OF EQUIPMENT, SHELVES, & ACCESSORIES), REFERENCE THE EMS "TECH DATA" DOCUMENTATION (CONTACT STERIS) OR REFERENCE THE ALLOWABLE LOAD CAPACITY "LABEL" LOCATED ON THE PENDANT HEAD OR COLUMN.  
2) LAMINAR AIR FLOW DUCT-WORK SHOULD BE INSTALLED NO CLOSER THAN 24 INCHES FROM THE CENTERLINE OF THE VERTICAL EXTENSION TUBE/HARMONY BEARING PLATE. IF ADEQUATE CLEARANCE IS NOT ACHIEVED, AN ACCESS DOOR SHOULD BE PROVIDED IN THE CEILING TO ASSIST IN CABLE ROUTING AND SYSTEM TROUBLESHOOTING.

ALL DIMENSIONS ARE IN INCHES ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS <b>STERIS</b> STERIS Corporation Mentor, OH	<b>SUPPORT STRUCTURE ENGINEERING REQUIREMENTS</b>		ACCOUNT NAME Maine Medical Center
	Cath Lab Harmony EMS 70°Dbl Fixed Arm with 40°Lite Column		ACCOUNT LOCATION Portland, ME
	FILE NAME CATH LAB_Philips 70 Lite with 40 Lite Column	ACCOUNT LOCATION Portland, ME	ACCOUNT NAME Maine Medical Center
	PRINTED DATE 8/13/2010	SHEET 6 of 10	ACCOUNT LOCATION Portland, ME

NOTE: THIS DRAWING WAS NOT PREPARED BY SMRT. IT IS PROVIDED FOR COORDINATION AND REFERENCE PURPOSES ONLY

144 First Street P.O. Box 618  
Portland, Maine 04104  
Tel: (207) 772-3866  
Fax: (207) 772-1070  
www.sterisc.com

ARCHITECTURE  
ENGINEERING  
PLANNING  
INTERIOR DESIGN  
COMMISSIONING

**SMRT**

PROJECT NORTH

MAINE MEDICAL CENTER CATH. LAB #5  
PORTLAND, ME

ISSUED FOR CONSTRUCTION  
9.3.10

REV	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	9.3.10

GRAPHIC SCALE:  
0" 1"

SCALE:  
PROJECT MANAGER: \_\_\_\_\_  
IC/DRAWN BY: \_\_\_\_\_  
A/E OF RECORD: \_\_\_\_\_  
PROJECT NO: 10006-00  
DATE: 9.3.10

SHEET TITLE:  
VENDOR EQUIPMENT DRAWINGS, SHEET 9

SHEET No. Q-009