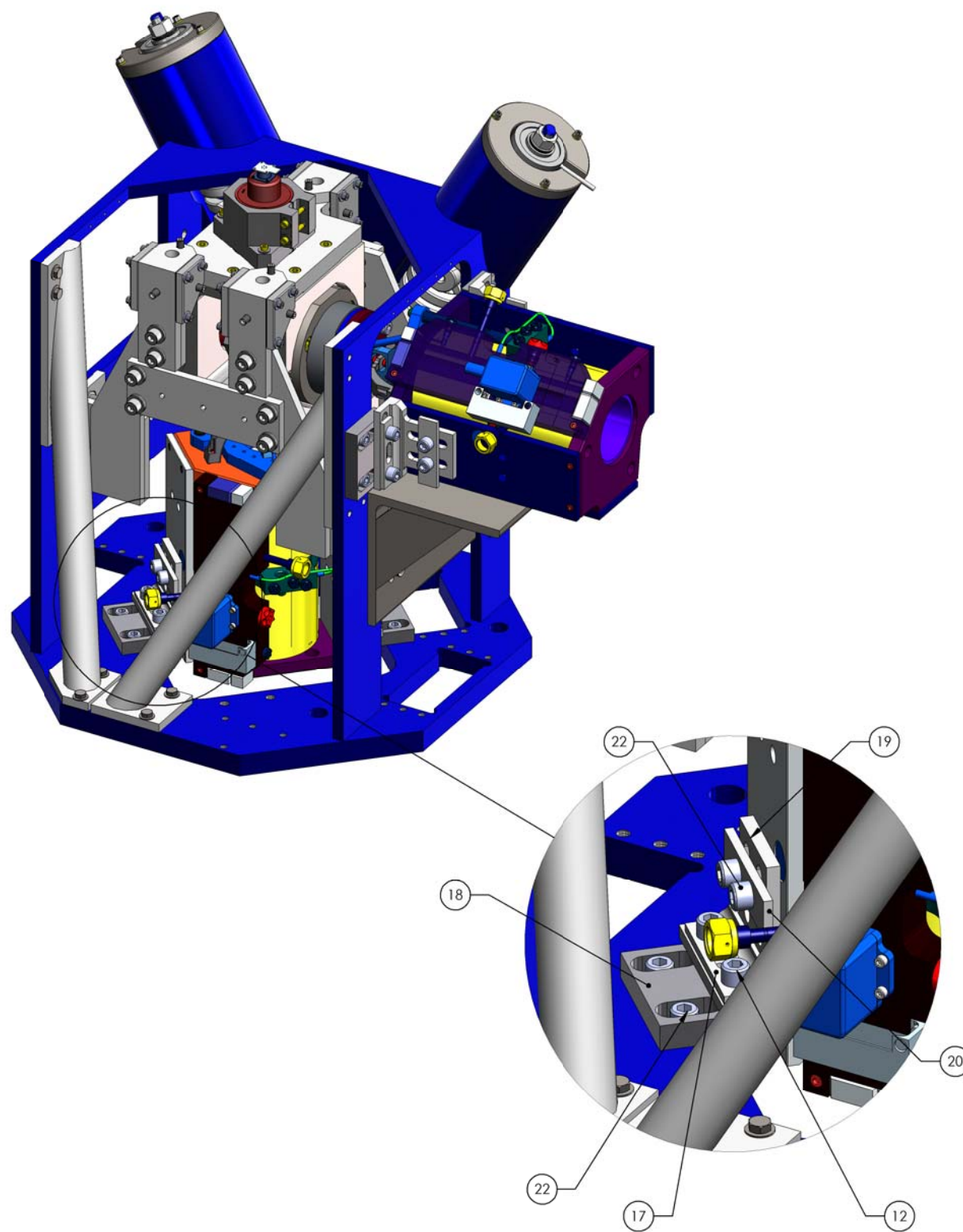


NOTES CONTINUED:  
 4. VENDOR REFERENCES ARE PROVIDED AS EXAMPLES OF PARTS MEETING ALL REQUIRED SPECIFICATIONS. EQUIVALENTS ARE ALWAYS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.  
 5. REFER TO LIGO E0900357 FOR ASSEMBLY AND LOADING PROCEDURE.  
 6. ALL ITEMS SHOWN IN THEIR NOMINAL ZERO LOAD CONDITION.

REV.	DATE	DCN #	DRAWING TREE #
v1	1 Mar 2011	E1100015	E1100016



DETAIL A  
SCALE 1:2

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ
1	D020004	HOUSING HYDRAULIC ASSEMBLY	ASTM A36 Steel	1
2	D1100147	HEPI CROSSBEAM ATTACHMENT, αLIGO HAM RIGHT	SEE BOM	1
3	D080496	HAM HEPI CAGING ASSEMBLY	SEE BOM	1
4	D020329	PRE-ISOLATOR ASSEMBLY, HOUSING STIFFENER, RIGHT, ACTUATOR	ASTM A519 Steel	1
5	D1003359	HEPI SPRING ASSEMBLY, HAM, αLIGO SEI	SEE BOM	2
6	D020016	Horizontal Angle Mount Hydraulic Isolator	ASTM A36 Steel	1
7	D030694	Horizontal Angle Mount Backup Plate Hydraulic Isolator	ASTM A36 Steel	1
8	D020332	PRE-ISOLATOR ASSEMBLY, HOUSING STIFFENER, LEFT PANEL	ASTM A519 Steel	1
9	D1100474	UNIFIED HYDRAULIC ACTUATOR SHIM, αLIGO HEPI	6061-T6 Al	1
10	MCMMASTER_98017A210	Flat Washer, 1/2" Screw, .51"x.88"x.06"	AISI 304	6
11	MSC_67007768	SCREW 1/2-20 x 1.5, SHCS	Alloy Steel	3
12	HOLOKROME_73132	SHCS 1/2-20 x 1.25	Alloy Steel	17
13	HOLOKROME_78114	SCREW, 1/2-13 X 1.25 LG, SCHS	18-8 SS	4
14	MCMMASTER_90126A033	Flat Washer, .53 id x 1.06 od x .07-.13 thk	Plain Carbon Steel	12
15	MCMMASTER_97416A127	WASHER .406 ID X .813 OD X (.05-.08) THK	Alloy Steel	12
16	MCMMASTER_92965A624	HEX SCREW 3/8-16 X 1" LG.	Alloy Steel	12
17	D1100318	UNIFIED HYDRAULIC ACTUATOR BRACKET WASHER BAR 1, αLIGO HEPI	AISI 1018 Steel, Cold Rolled	5
18	D1100315	UNIFIED HYDRAULIC ACTUATOR BRACKET BASE 1, αLIGO HEPI	AISI 1018 Steel Cold Rolled	3
19	D1100473	UNIFIED HYDRAULIC ACTUATOR BRACKET, αLIGO HEPI	AISI 1018 Steel, Cold Rolled	5
20	D1100319	UNIFIED HYDRAULIC ACTUATOR BRACKET WASHER BAR 2, αLIGO HEPI	AISI 1018 Steel, Cold Rolled	5
21	D1100316	UNIFIED HYDRAULIC ACTUATOR BRACKET BASE 2, αLIGO HEPI	AISI 1018 Steel Cold Rolled	2
22	HOLOKROME_73130	SHCS 1/2-20 x 1.00	Alloy Steel	20
23	MSC_76588631	SCREW, 1/2-13 X 1.125 LG, SCHS	Alloy Steel	8
24	D020284-02	HORIZONTAL ACTUATOR ASSEMBLY	N/A	1
25	D020284-01	VERTICAL ACTUATOR ASSEMBLY	N/A	1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 .XX ± N/A  
 .XXX ± N/A  
 ANGULAR ± N/A\*

1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES, R.02 MIN.
3. DO NOT SCALE FROM DRAWING.

MATERIAL SEE BOM

FINISH N/A μinch

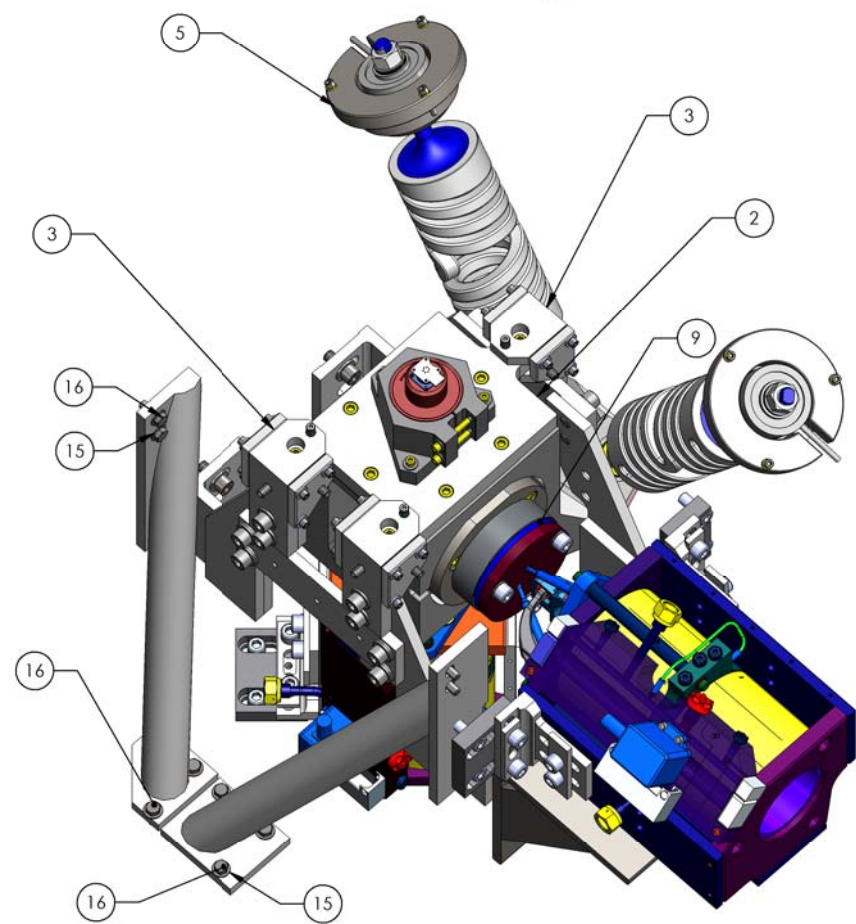
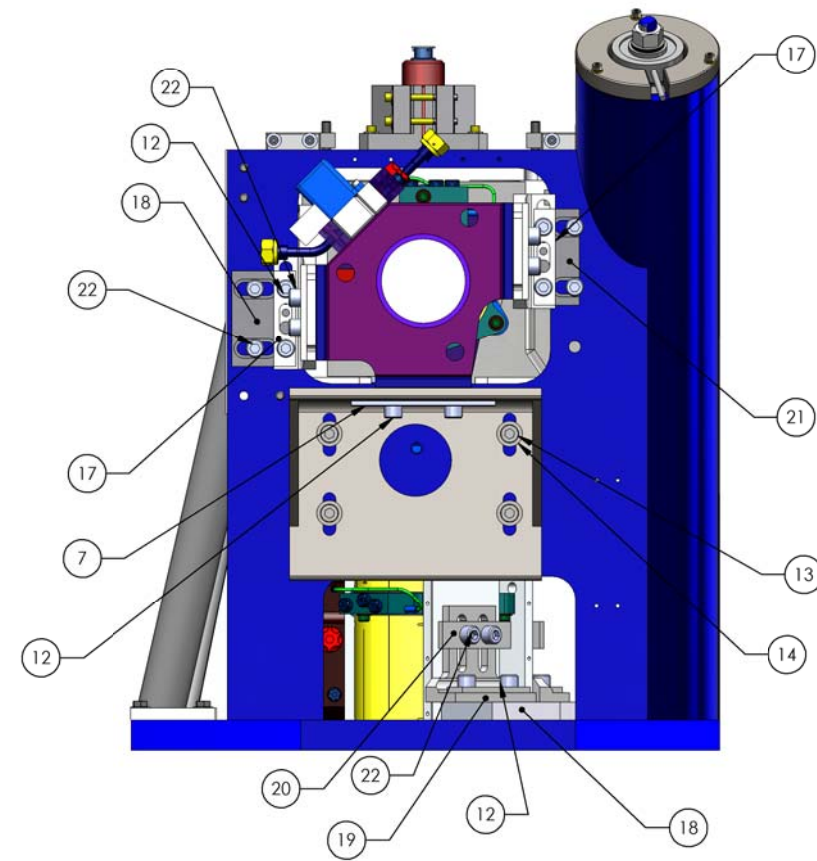
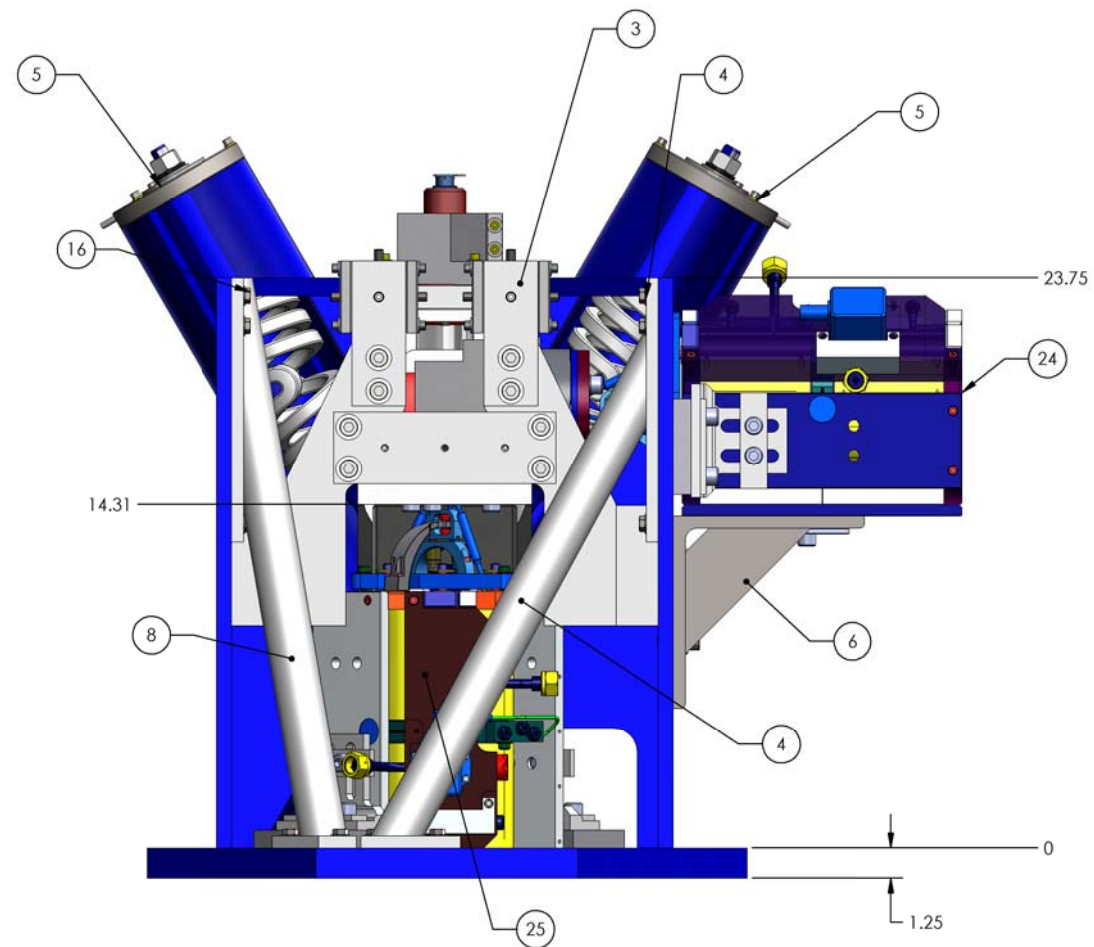
**LIGO** CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO SUB-SYSTEM SEI NEXT ASSY D040002

PART NAME HEPI MAIN SUPPORT ASSEMBLY, αLIGO HAM RIGHT

DESIGNER	A. STEIN	15 Apr, 2009	SIZE	D	DWG. NO.	D1100146	REV.	v1
DRAFTER	MILLARD	1 Mar 2011						
CHECKER	KMASON	1 Mar 2011						
APPROVAL	KMASON	1 Mar 2011	SCALE: 1:4	PROJECTION:			SHEET 1 OF 2	

D1100146 HEPI MAIN SUPPORT ASSEMBLY, αLIGO HAM RIGHT, PART PDM REV: X024, DRAWING PDM REV: X000



<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		REV.
SIZE	DWG. NO.	REV.
D	D1100146	v1
SCALE: 1:4	PROJECTION:	SHEET 2 OF 2

D1100146 HEPI MAIN SUPPORT ASSEMBLY, LIGO HAM RIGHT, PART PDM REV: X02, DRAWING PDM REV: X000