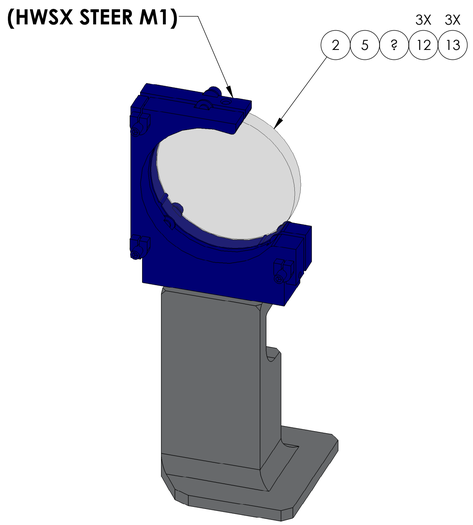
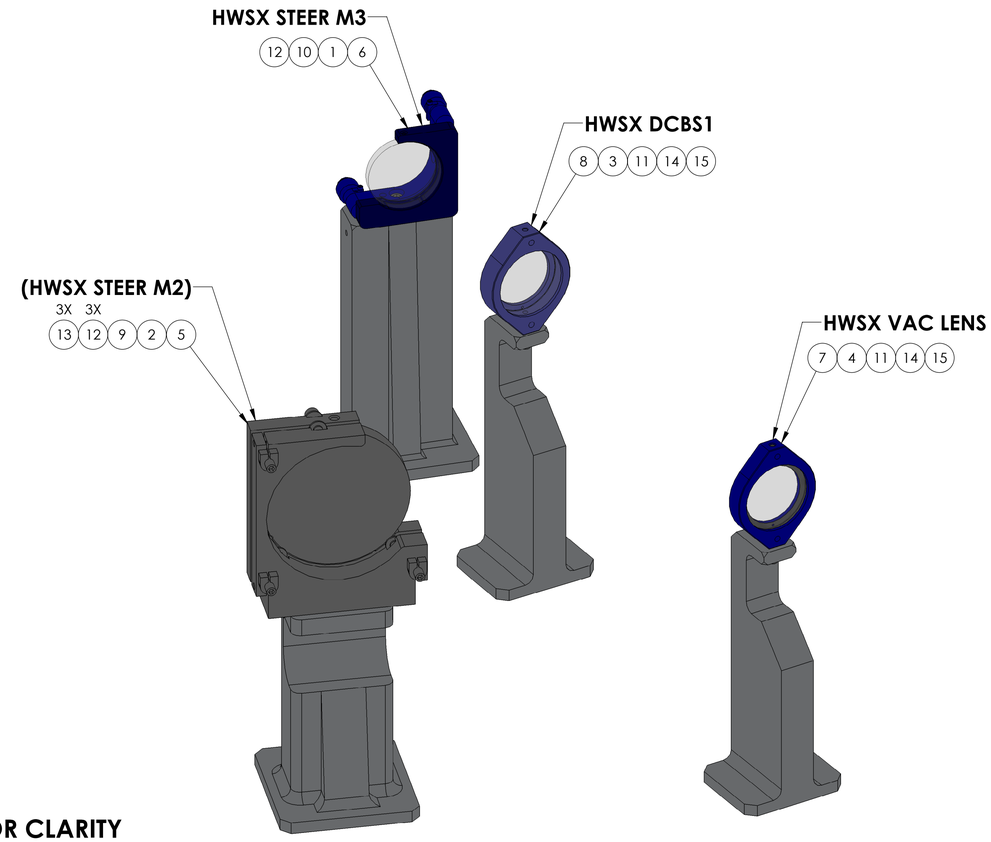
NOTES CONTINUED:

5. SEE SHEET 2 AND 3 FOR LAYOUT DIMENSIONS
6. ALL DIMENSIONS ARE WRT HAM4 0,0,0 LOCAL CS.
7. #8-32 TORQUE TO 20 in-lb, MAX
8. 1/4-20 TORQUE TO 65 in-lb, MAX

REV.	DATE	DCN #	DRAWING TREE #
v1	19 DEC 2012	E1201120	E1201121
v2	16 JUL 2014	E1400331-x0	-
-	-	-	-





OPTICAL TABLE OMMITED FOR CLARITY

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
17	D1201558	WHAM4 HWSX 4IN MIRROR MOUNT	6061 Alloy	1		1
7 15	WFV-08	WASHER, VENTED FLAT, #8 .169ID X .304OD X .032THK, UC-COMPONENTS	Alloy Steel (SS)	2	1	3
14	C-812-A	SSHC #8-32 UNC-3A 3/4LGV, VENTED , UC COMPONENTS	18-8 SSTL	2	1	3
8 13	WFV-25	WASHER,FLAT,VENTED, .261D X .47OD X .032TK. UC COMPONENTS	18-8 SSTL	6	2	8
12	C-2012-A	SHCS, 1/4-20 UNC-2A X 3/4LG, VENTED, SILVER PLATED. UC-COMPONENETS	18-8 SSTL	7	1	8
11	D1101840	aLIGO PESDESTAL HWSX 2IN OPTIC MOUNT	6061 Alloy	2	0	2
10	D1101844	aLIGO, PESDESTAL,HAM4,HWSY, 2IN MIRROR MOUNT	6061 Alloy	1	0	1
9	D1101898	aLIGO PESDESTAL HAM4 HWSX-M2 4IN MIRROR MOUNT	6061 Alloy	1	0	1
8	D1102166	ISC Fixed Optic Holder- custom size for LIGO . Siskiyou	6061 Alloy	1	0	1
7	FOH-2.00	FIXED OPTIC HOLDER. SISKIYOU	6061 ALLOY	1	0	1
6	IXM200.C	MOUNT, 100TPI, 2IN OPTIC CUTAWAY,RH. SISKIYOU	6061 Alloy	1	0	1
5	IXM400.A3-VC	LIGO 4IN OPTIC MOUNT,SISKIYOU	6061 Alloy	2	0	2
4	PLCC-50.8-772.6-UV-830	LASER QUALITY_CONCAVE LENSE. CVI MELLES GRIOT	Glass	1	0	1
3	D1200214	aLIGO TCS HWS DICHROIC BEAM SPLITTER. PRECISION PHOTONICS	Glass	1	0	1
2	TBD	4IN METALLIC MIRROR.THOR LABS	TBD	2	0	2
1	TBD	2IN METALLIC MIRROR. THOR LABS	TBD	1	0	1

PARTS LIST

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES

TOLERANCES:
.XX ± .01
.XXX ± .005

ANGULAR ± 1.0°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.
3. DO NOT SCALE FROM DRAWING.
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL N/A

FINISH N/A µinch

NEXT ASSY D1101085

LIGO — CALIFORNIA INSTITUTE OF TECHNOLOGY, MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO

SUB-SYSTEM AOS

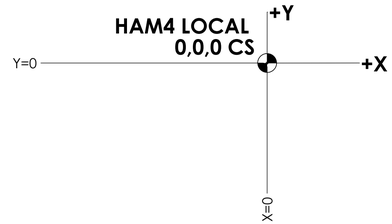
PART NAME aLIGO TCS HWS OPTO-MECH LAYOUT, ITMX, HAM4, H1

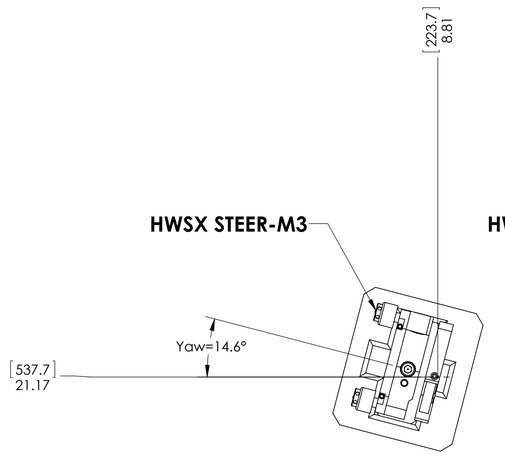
DESIGNER	A. BROOKS	05 DEC 2012	
DRAFTER	A.COLE	5-JAN-2012	
CHECKER	M.JACOBSON	5-JAN-2012	
APPROVAL	A.BROOKS	5-JAN-2012	

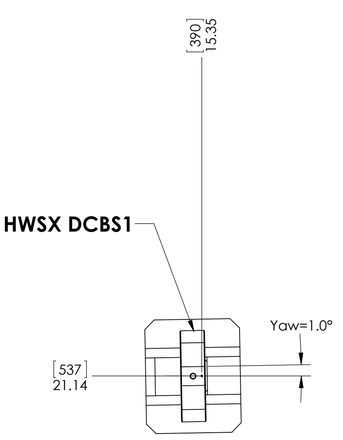
SIZE D **DWG. NO.** D1101083 **REV.** v2

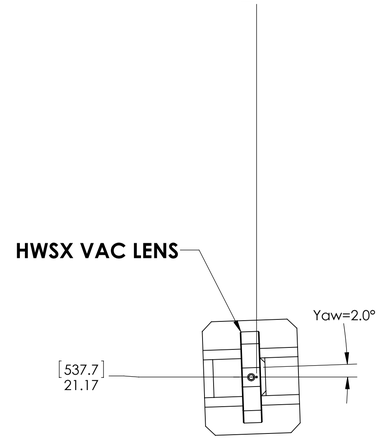
SCALE: 1:4 **PROJECTION:** **SHEET 1 OF 3**

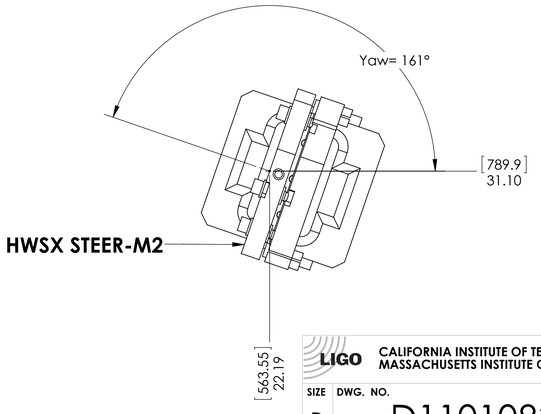
D1101083_HWS OPTO MECHANICAL LAYOUT, ITMX, HAM4, PART PDM REV:X-061, DRAWING PDM REV: X-019











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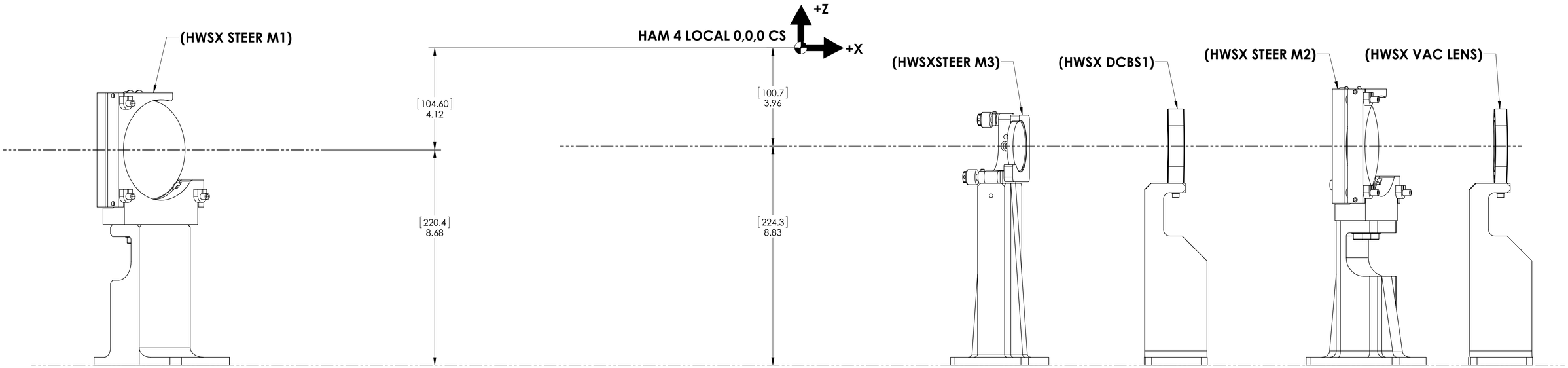
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SIZE	DWG. NO.	REV.
D	D1101083	v2

SCALE: 1:4 | PROJECTION: | SHEET 2 OF 3

D1101083_HWS OPTO MECHANICAL LAYOUT, ITMX, HAM4, PART PDM REV: X-061, DRAWING PDM REV: X-019



D1101083_HWS OPTO MECHANICAL LAYOUT, ITMX, HAM4, PART PDM REV-X-061, DRAWING PDM REV-X-019

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SIZE	DWG. NO.	REV.
D	D1101083	v2

SCALE: 1:4 | PROJECTION: | SHEET 3 OF 3