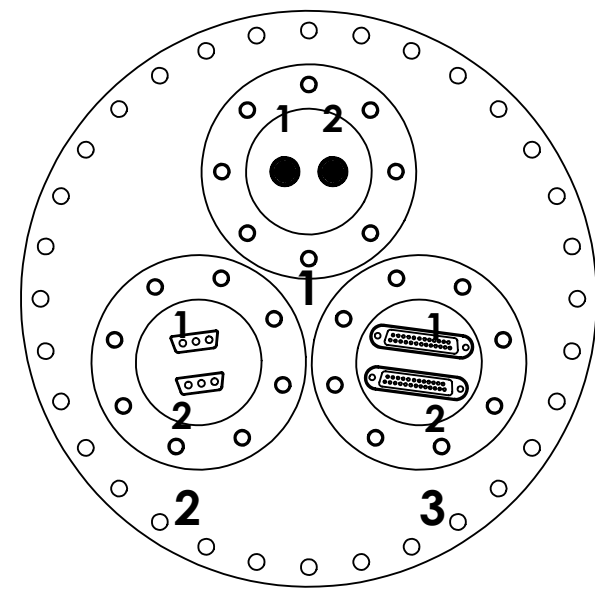
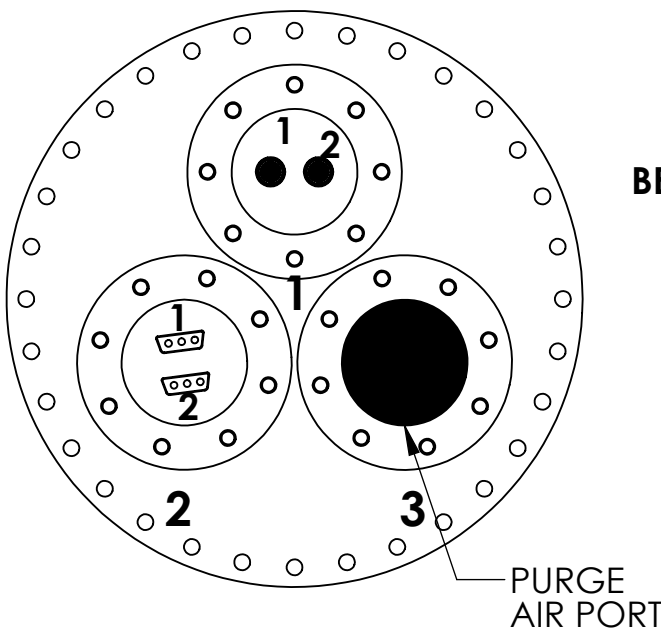


1. FOR A COMPLETE EXPLANATION OF FLANGE DESIGNATORS, FLANGE NAMING CONVENTIONS AND SUBFLANGE TYPE, SEE LIGO D1101775.
 2. SEE G1000125 FOR HAM ISI SYSTEM ORIENTATION WITH RESPECT TO VACUUM CHAMBER AND IFO GLOBAL COORDINATE SYSTEM

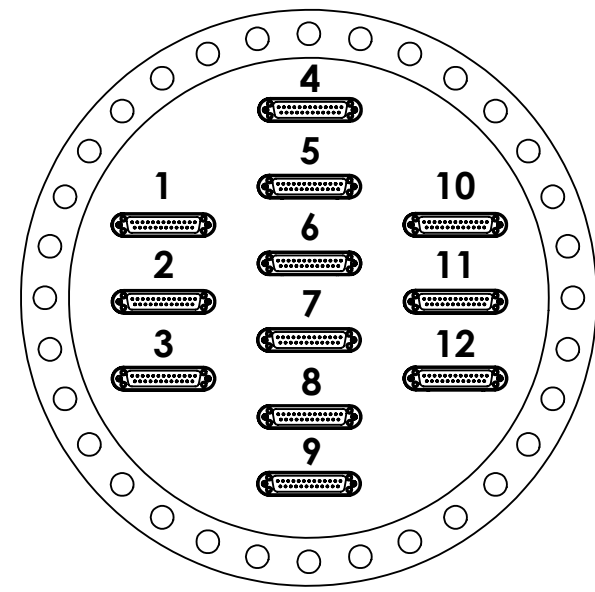
③ IN THIS WE INCLUDE: 3 - DCPD, 1 - BEAM DIVERTER, 1 - TRANSLATION STAGE.



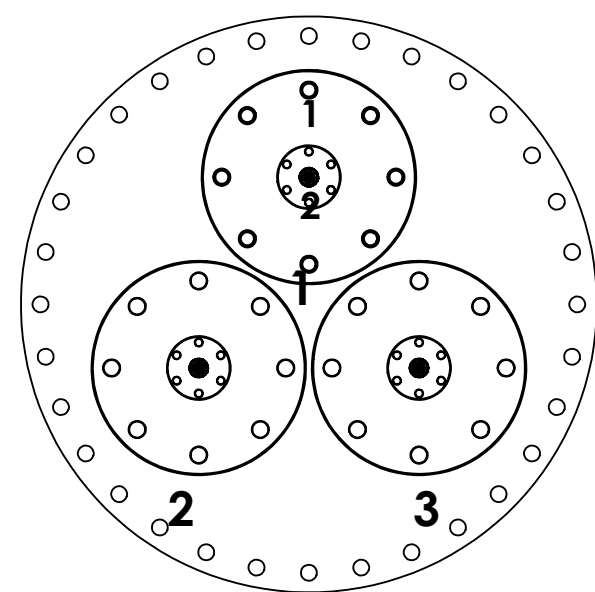
DETAIL A
(D1, D4 CONFIGURATION)



DETAIL B
(D2 CONFIGURATION)

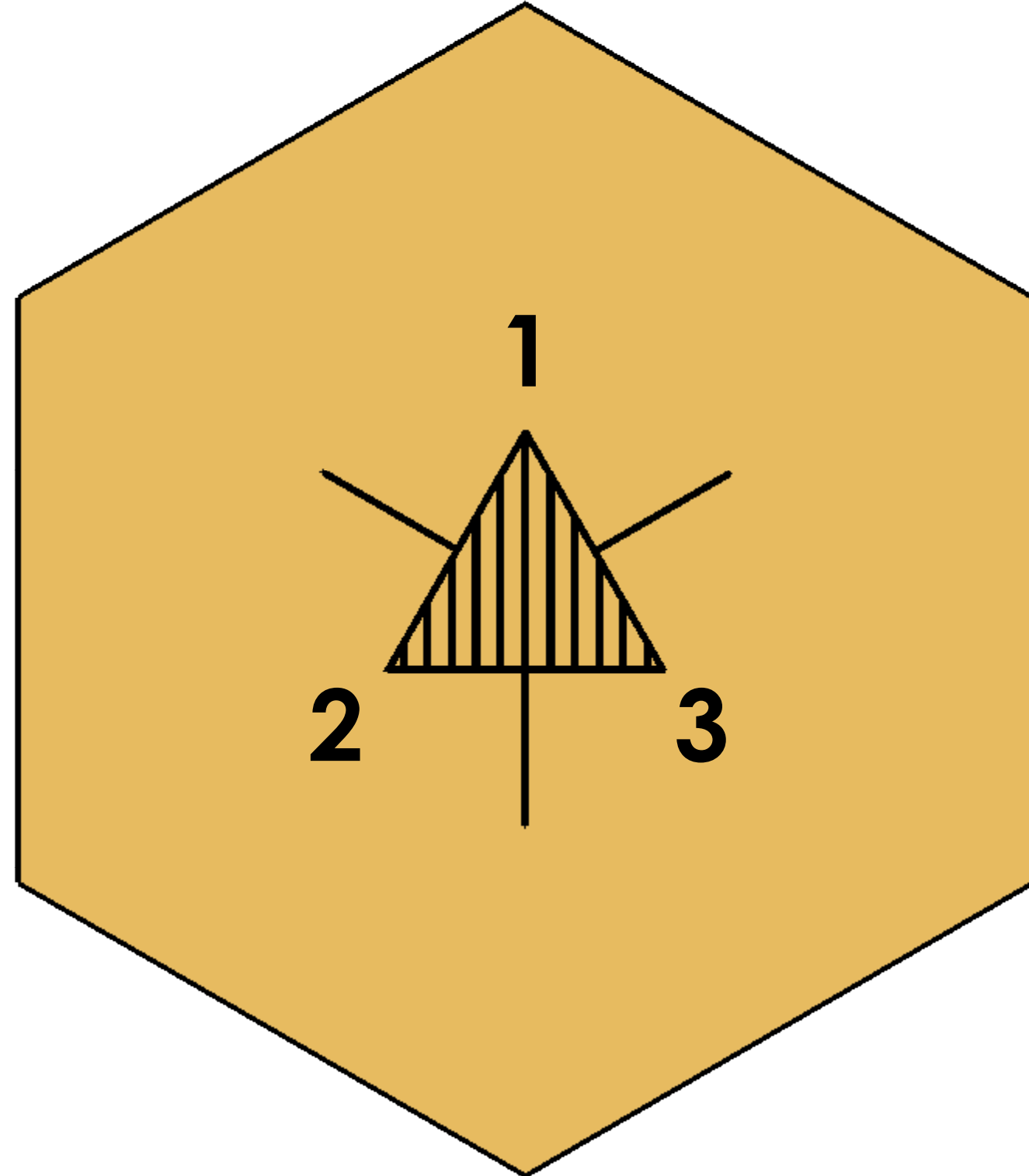
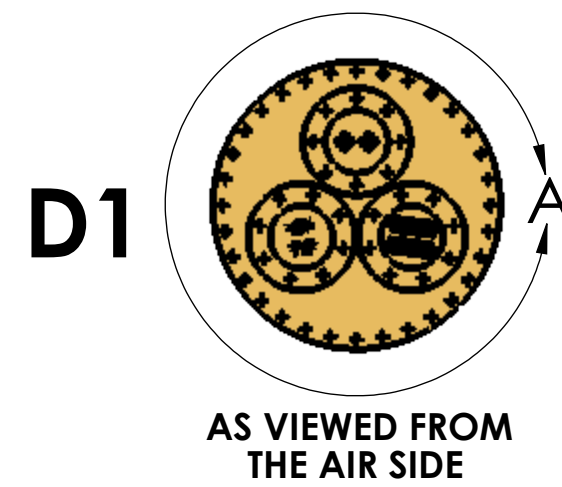
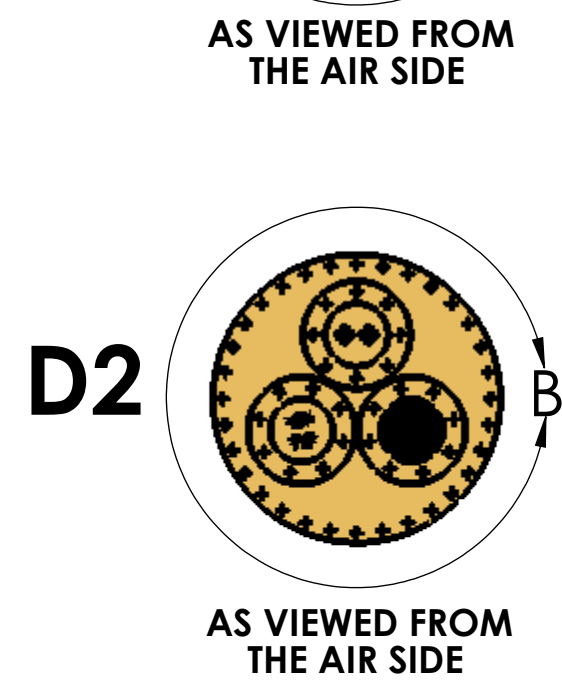


DETAIL C
(D3, D5, D8 CONFIGURATION)

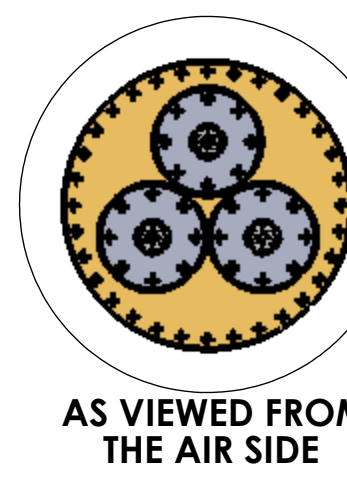
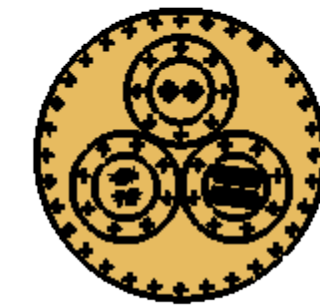


DETAIL D
(D6 CONFIGURATION)

BELLOWS SIDE OF THE CHAMBER



AS VIEWED FROM ABOVE
PLAN VIEW



LOCATED ON THE TOP OF THE CHAMBER

* SUBFLANGE TYPE >	A	B	C	D	E	F	G	H	J
CONNECTORS >	BNC	3PWR	25D	5 WAY COAX (2 PER FLANGE)	5 WAY COAX (1 PER FLANGE)	25PIN FULL FLANGE	TRI-AXIAL	2TC2P	FC-APC
SUBSYSTEMS v									
SEI (ISI)		6	6			0.5	6		
SUS			16			1.5			
ISC									
I/O									
TCS									
PSL									
AOS									
SQZ			12			1			3
TOTALS (CONNECTORS)	0	6	34	0	0	36	6	0	3
TOTALS (FLANGES)	0	3	5	0	0	3	3	0	3

FLANGE	SUBFLANGE	FLANGE TYPE	CONNECTOR	SUBSYSTEM	DESCRIPTION
D7		BLANK			-- BLANK (FULL FLANGE) --

FLANGE	SUBFLANGE	FLANGE TYPE	CONNECTOR	SUBSYSTEM	DESCRIPTION
D8-F1		F	25D-1	SQZ	DC QPDA
D8-F2		F	25D-2	SQZ	DC QPDB
D8-F8		F	25D-8	SQZ	PICO MOTORS H:M1/2, D:M1/2
D8-F9		F	25D-9	SQZ	PICO MOTOR SK:M1/2
D8-F10		F	25D-10	SQZ	SF11 (THERMAL CONTROLLER)
D8-F11		F	25D-11	SQZ	SF12 (THERMAL CONTROLLER)

REV.	DATE	DCN #	DRAWING TREE #
v5	18 OCT 2019	-	-
v6	11 NOV 2019	E1900394-x0	-
v8	06 AUG 2020	E1900394-x0	-

FLANGE	SUBFLANGE	FLANGE TYPE	CONNECTOR	SUBSYSTEM	DESCRIPTION
D1-1G1	-1	G	TRIAxIAL-1	SEI	SEI - CAP POS SENS
D1-1G2	-1	G	TRIAxIAL-2	SEI	SEI - CAP POS SENS
D1-2B1	-2	B	3PWR-1	SEI	SEI - ISI COILS
D1-2B2	-2	B	3PWR-2	SEI	SEI - ISI COILS
D1-3C1	-3	C	25D-1	SEI	SEI - GS-13
D1-3C2	-3	C	25D-2	SEI	SEI - L-4C

FLANGE	SUBFLANGE	FLANGE TYPE	CONNECTOR	SUBSYSTEM	DESCRIPTION
D2-1G1	-1	G	TRIAxIAL-1	SEI	SEI - CAP POS SENS
D2-1G2	-1	G	TRIAxIAL-2	SEI	SEI - CAP POS SENS
D2-2B1	-2	B	3PWR-1	SEI	SEI - ISI COILS
D2-2B2	-2	B	3PWR-2	SEI	SEI - ISI COILS
D2-3	-3	-	-	VAC	PURGE AIR
D2-3	-3	-	-	VAC	PURGE AIR

FLANGE	SUBFLANGE	FLANGE TYPE	CONNECTOR	SUBSYSTEM	DESCRIPTION
D3-F1		F	25D-1	SUS	SUS TRIPLE (FC1) SUS FC1 M1 T1T2T3LF
D3-F2		F	25D-2	SUS	SUS TRIPLE (FC1) SUS FC1 M1 RTSDxxxx
D3-F3		F	25D-3	SUS	SUS TRIPLE (FC1) SUS FC1 M2 ULLURLR
D3-F4		F	25D-4	SUS	SUS TRIPLE (FC1) SUS FC1 M3 ULLURLR
D3-F5		F	25D-5	SUS	HDS + SAMS (ZM4) TOP SUS ZM4 M1 ULLURLR
D3-F6		F	25D-6	SUS	HDS + SAMS (ZM4) MODE MAT SUS ZM4 M2 P-SAMS L
D3-F7		F	25D-7	SUS	HDS + SAMS (ZM5) TOP SUS ZM5 M1 ULLURLR
D3-F8		F	25D-8	SUS	HDS + SAMS (ZM5) MODE MAT SUS ZM5 M2 P-SAMS L
D3-F9		F	25D-9	SUS	TIP/TILT (ZM4) TOP/HDS TOP Z SUS ZM1 M1 ULLURLR
D3-F10		F	25D-10	SUS	SPARE (HDS OTHER Z) SUS ZM1 M2 ULLURLR
D3-F11		F	25D-11	SEI	SEI - GS-13
D3-F12		F	25D-12	SEI	SEI - L-4C

FLANGE	SUBFLANGE	FLANGE TYPE	CONNECTOR	SUBSYSTEM	DESCRIPTION
D4-1G1	-1	G	TRIAxIAL-1	SEI	SEI - CAP POS SENS
D4-1G2	-1	G	TRIAxIAL-2	SEI	SEI - CAP POS SENS
D4-2B1	-2	B	3PWR-1	SEI	SEI - ISI COILS
D4-2B2	-2	B	3PWR-2	SEI	SEI - ISI COILS
D4-3C1	-3	C	25D-1	SEI	SEI - GS-13
D4-3C2	-3	C	25D-2	SEI	SEI - L-4C

FLANGE	SUBFLANGE	FLANGE TYPE	CONNECTOR	SUBSYSTEM	DESCRIPTION
D5-F1		F	25D-1	SQZ	SQZ-VOPO SUS +OSEM SUS OPO M1 H1H2H3V1
D5-F2		F	25D-2	SQZ	SQZ-VOPO SUS +OSEM SUS OPO M1 V2V3xxxx
D5-F3		F	25D-3	SQZ	SPARE (HDS OTHER Z) SPARE
D5-F4		F	25D-4	SQZ	SQZ-TEC/THERMISTORS
D5-F5		F	25D-5	SQZ	SQZ-VOPO PZTs/OVEN TRANS STAGE
D5-F6		F	25D-6	SQZ	③ SQZ-PDs/LENS TRANS STAGE/B EAM DIV.
D5-F7		F	25D-7	SUS	SPARE
D5-F8		F	25D-8	SUS	HDS + SAMS (ZM2) TOP SUS ZM2 M1 ULLURLR
D5-F9		F	25D-9	SUS	HDS + SAMS (ZM2) MODE MAT SUS ZM2 M2 P-SAMS L
D5-F10		F	25D-10	SUS	SPARE
D5-F11		F	25D-11	SUS	TIP/TILT (ZM3) TOP/HDS TOP SUS ZM3 M1 ULLURLR
D5-F12		F	25D-12	SUS	SPARE (HDS OTHER Z) SUS ZM3 M2 ULLURLR

FLANGE	SUBFLANGE	FLANGE TYPE	CONNECTOR	SUBSYSTEM	DESCRIPTION
D6-1J1	-1	J	FC-APC	SQZ	SQZ-532nm FIBER OPO
D6-2J1	-2	J	FC-APC	SQZ	SQZ-532nm FIBER FC
D6-3J1	-3	J	FC-APC	SQZ	SQZ-1064nm FIBER

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PART NAME
A+, HAM7, Flange Layout - H1 Horizontal Access Module 7

SYSTEM A+ SUB-SYSTEM ALL

DESIGNER E.SANCHEZ 11 APR 2019 SIZE DWG. NO. D D1900116 REV. v9

CHECKER SEE DCC SEE DCC

APPROVAL SEE DCC SEE DCC SCALE: NTS PROJECTION: SHEET 1 OF 1

MATERIAL N/A FINISH N/A μinch NEXT ASSY D1900365