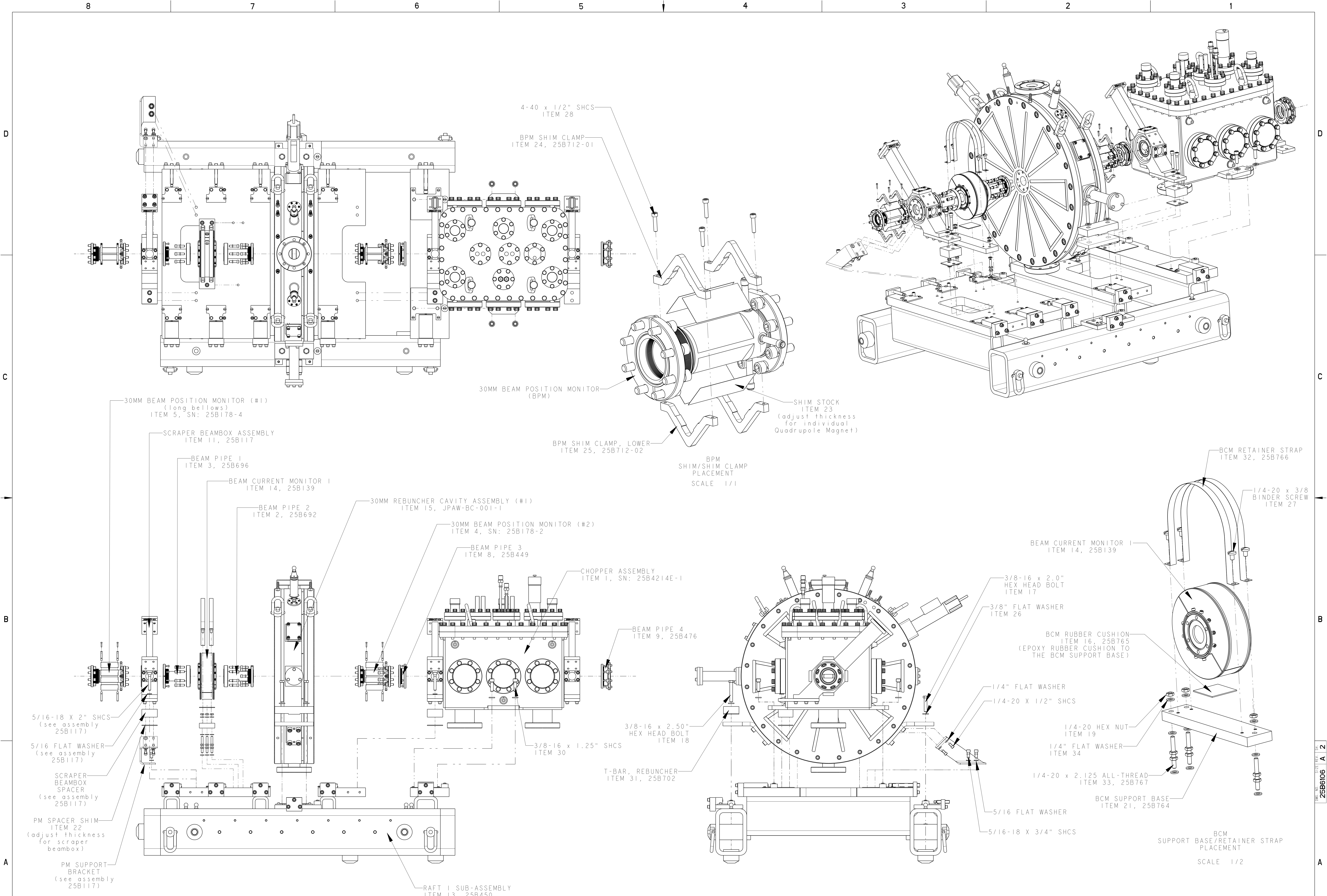
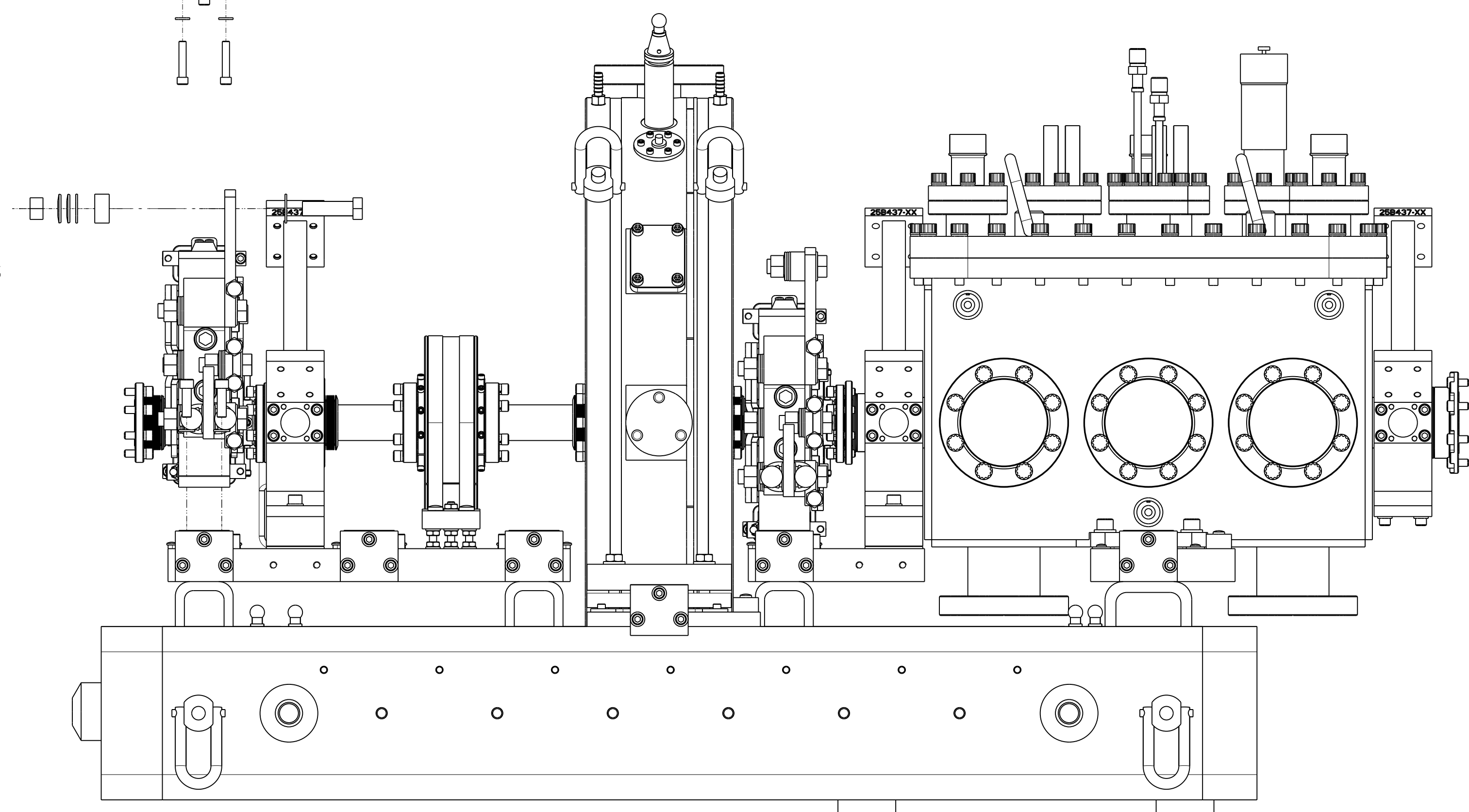
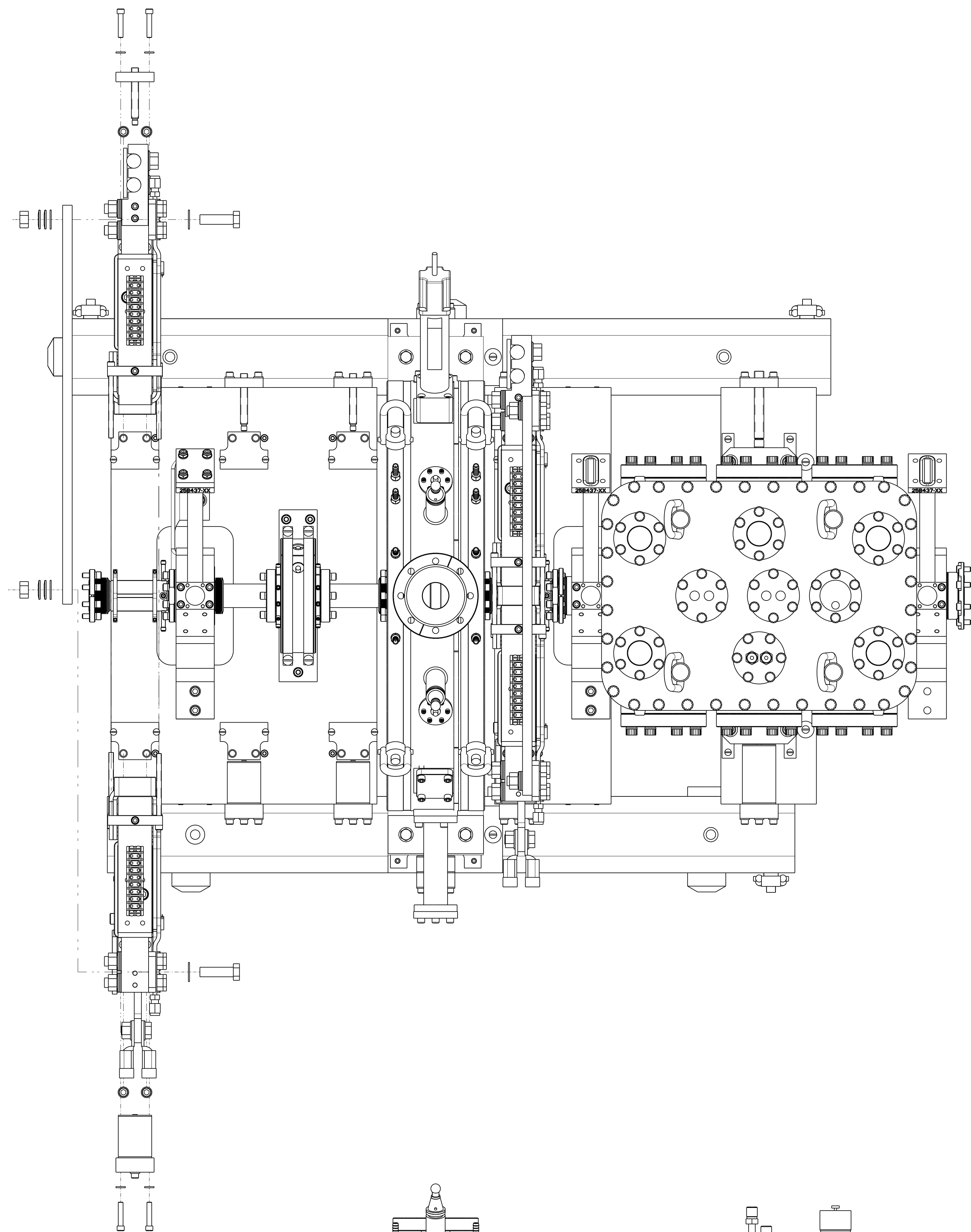
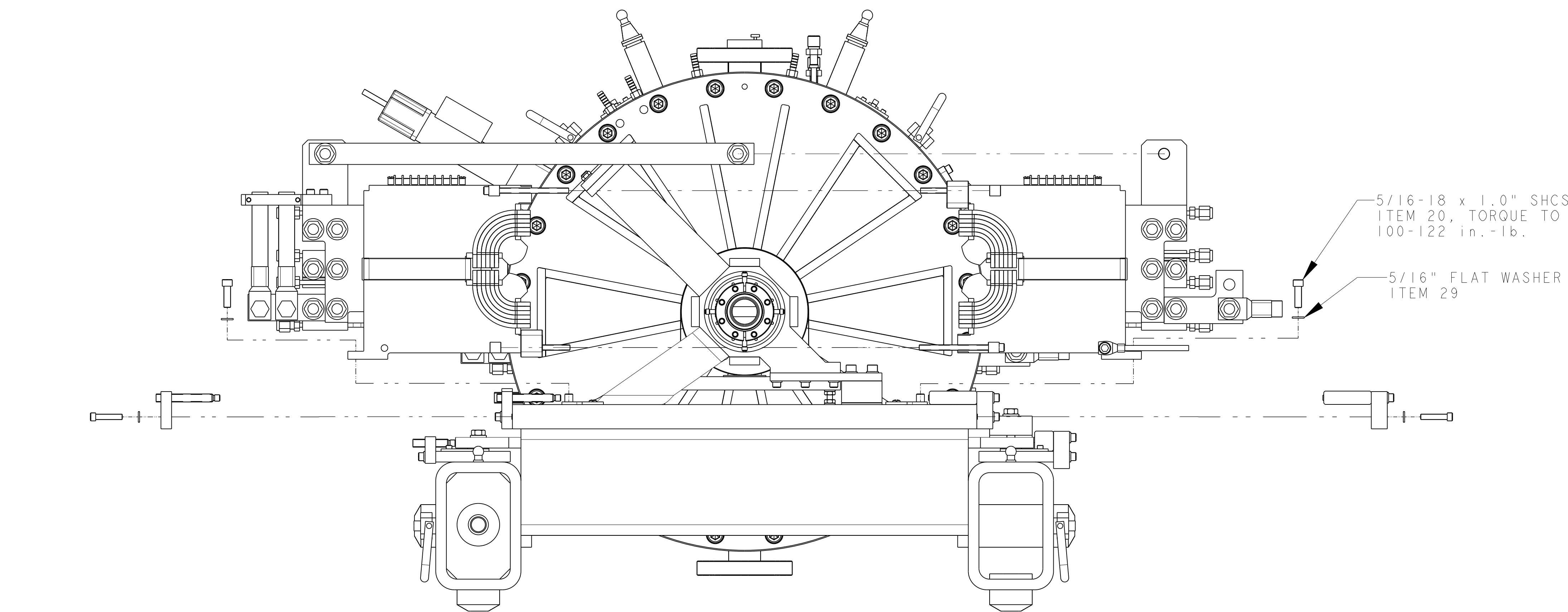
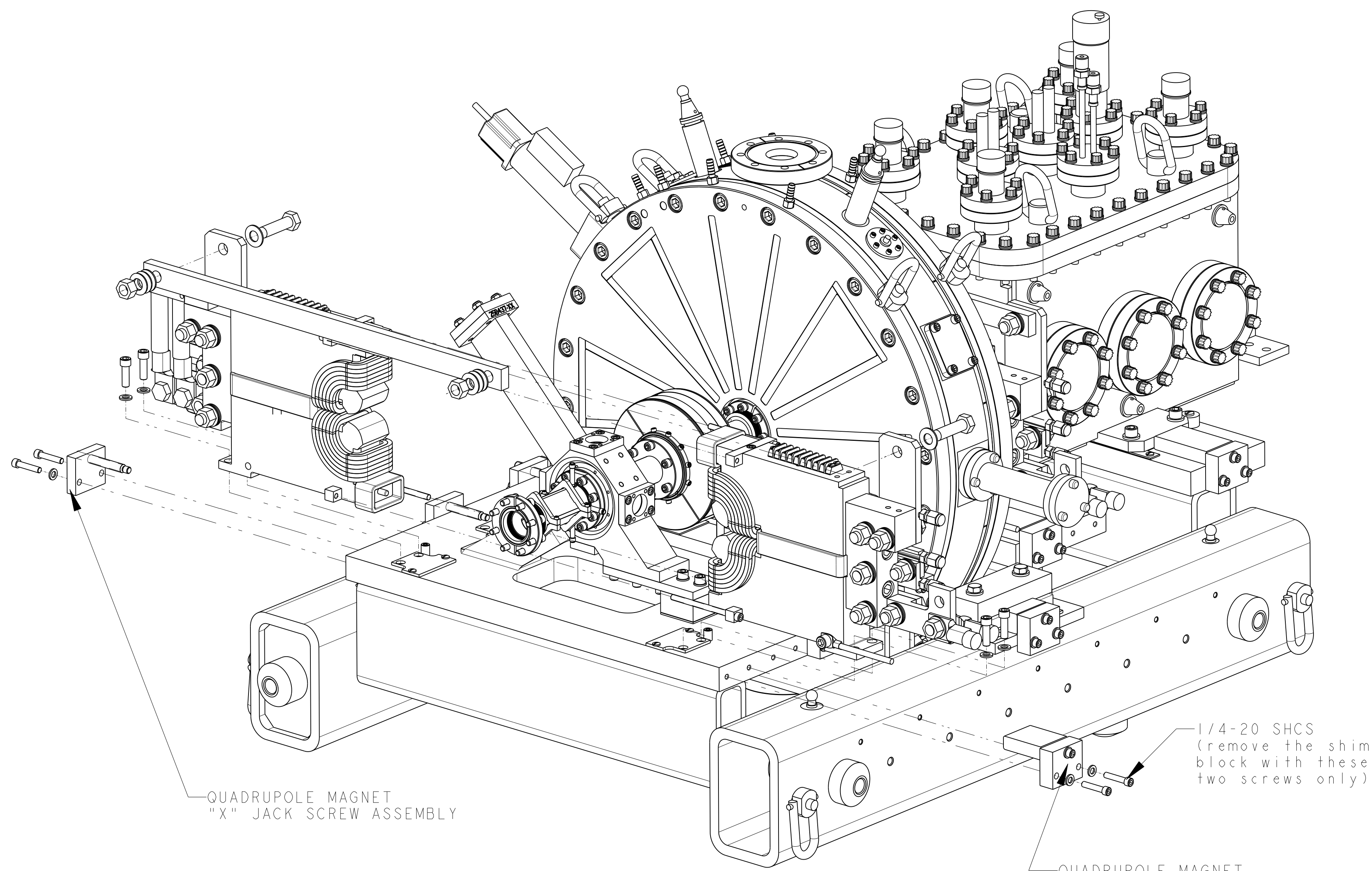




NOTE:

1. THIS DRAWING ILLUSTRATES THE ASSEMBLY OF THE BEAMLINE.
2. ALL QUADRUPOLES MAGNETS REMOVED FOR CLARITY.

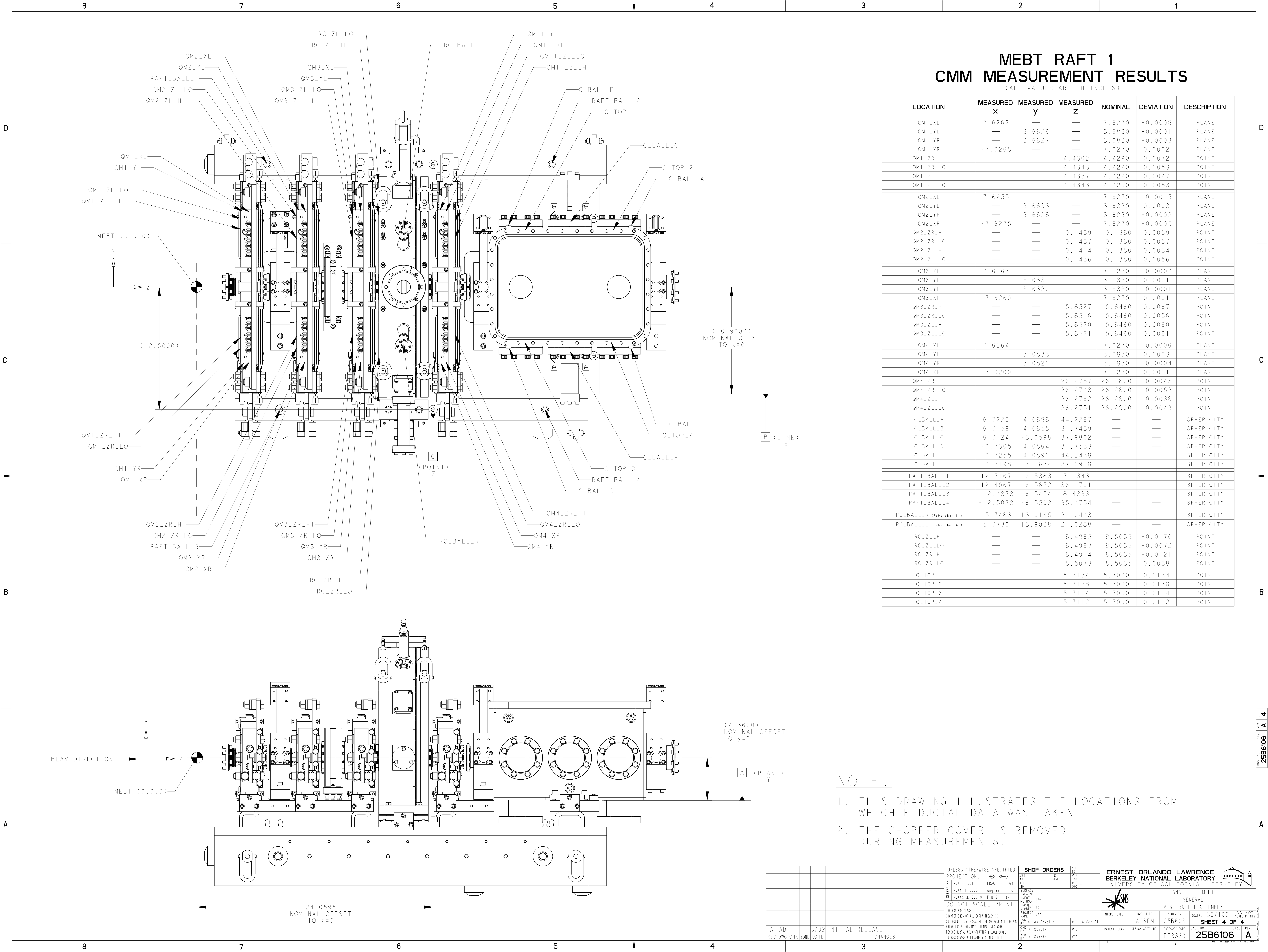
				UNLESS OTHERWISE SPECIFIED				SHOP ORDERS				ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY			
PROJECTION:				FIRST ANGLE				REV. NO. DATE				SNS - FES MEBT GENERAL			
TOLERANCES:				X.X ± 0.1				FRAC. ± 1/64				SCALE: 1/4			
X.XX ± 0.03				Angles ± 1.0°				FINISH: 125				MATERIAL: 25B603			
X.XXX ± 0.010				DO NOT SCALE PRINT				PROJECT: 25B603				SHEET 2 OF 4			
THREADS ARE CLASS 2				CUT BORDERS OF ALL SCREEN THREADS 30°				DESIGNER: D. Oshatz				REV. NO. DATE			
BREAK EDGES, DIE MAX. ON MACHINED WORK				REMOVE BURRS, WELD SPATTER & LOOSE SCALE				DATE: 19-Oct-01				CATEGORY CODE: FE3330			
IN ACCORDANCE WITH ASME Y14.5M-1994				A AD 3/02 INITIAL RELEASE				DESIGN ACCT. NO. 25B603				DWG. NO. 25B6106			
REV/DWG/CHK/ZONE/DATE				CHANGES				DATE				SIZE: A			



NOTE:

1. THIS DRAWING ILLUSTRATES THE QUADRUPOLE MAGNET SPLIT FOR ASSEMBLY AROUND THE BEAMLINE.
2. TWO QUADRUPOLES MAGNETS ARE REMOVED FOR CLARITY.

UNLESS OTHERWISE SPECIFIED				SHOP ORDERS				ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY			
PROJECTION:				ASSEMBLY				SNS - FES MEBT			
TOLERANCES:				DATE: 09-Nov-01				GENERAL			
X.X ± 0.1				DATE: 09-Nov-01				MEBT RAFT 1 ASSEMBLY			
X.XX ± 0.03				DATE: 09-Nov-01				SCALE: 31/100			
X.XXX ± 0.010				DATE: 09-Nov-01				SHEET 3 OF 4			
FINISH: 125/				DATE: 09-Nov-01				25B6106 A			
DO NOT SCALE PRINT				DATE: 09-Nov-01				REV. 1			
HARDEN AND CLASS 2				DATE: 09-Nov-01				REV. 2			
CHAMFER ENDS OF ALL SCREW THREADS 30°				DATE: 09-Nov-01				REV. 3			
CUT ROUNDS, 1.5 THREAD RELIEF ON MACHINED THREADS				DATE: 09-Nov-01				REV. 4			
BREAK EDGES, 0.06 MAX. ON MACHINED WORK				DATE: 09-Nov-01				REV. 5			
REMOVE BURRS, WELD SPATTER & LOOSE SCALE				DATE: 09-Nov-01				REV. 6			
IN ACCORDANCE WITH ASME Y14.5M-1994				DATE: 09-Nov-01				REV. 7			
A AD				3/02 INITIAL RELEASE				CHANGES			
REV/DWG/CHK/ZONE/DATE				CHANGES				CHANGES			



MEBT RAFT 1
CMM MEASUREMENT RESULTS

(ALL VALUES ARE IN INCHES)

LOCATION	MEASURED X	MEASURED Y	MEASURED Z	NOMINAL	DEVIATION	DESCRIPTION
QM1_XL	7.6262	—	—	7.6270	-0.0008	PLANE
QM1_YL	—	3.6829	—	3.6830	-0.0001	PLANE
QM1_YR	—	3.6827	—	3.6830	-0.0003	PLANE
QM1_XR	-7.6268	—	—	7.6270	0.0002	PLANE
QM1_ZR_HI	—	—	4.4362	4.4290	0.0072	POINT
QM1_ZR_LO	—	—	4.4343	4.4290	0.0053	POINT
QM1_ZL_HI	—	—	4.4337	4.4290	0.0047	POINT
QM1_ZL_LO	—	—	4.4343	4.4290	0.0053	POINT
QM2_XL	7.6255	—	—	7.6270	-0.0015	PLANE
QM2_YL	—	3.6833	—	3.6830	0.0003	PLANE
QM2_YR	—	3.6828	—	3.6830	-0.0002	PLANE
QM2_XR	-7.6275	—	—	7.6270	-0.0005	PLANE
QM2_ZR_HI	—	—	10.1439	10.1380	0.0059	POINT
QM2_ZR_LO	—	—	10.1437	10.1380	0.0057	POINT
QM2_ZL_HI	—	—	10.1414	10.1380	0.0034	POINT
QM2_ZL_LO	—	—	10.1436	10.1380	0.0056	POINT
QM3_XL	7.6263	—	—	7.6270	-0.0007	PLANE
QM3_YL	—	3.6831	—	3.6830	0.0001	PLANE
QM3_YR	—	3.6829	—	3.6830	-0.0001	PLANE
QM3_XR	-7.6269	—	—	7.6270	0.0001	PLANE
QM3_ZR_HI	—	—	15.8527	15.8460	0.0067	POINT
QM3_ZR_LO	—	—	15.8516	15.8460	0.0056	POINT
QM3_ZL_HI	—	—	15.8520	15.8460	0.0060	POINT
QM3_ZL_LO	—	—	15.8521	15.8460	0.0061	POINT
QM4_XL	7.6264	—	—	7.6270	-0.0006	PLANE
QM4_YL	—	3.6833	—	3.6830	0.0003	PLANE
QM4_YR	—	3.6826	—	3.6830	-0.0004	PLANE
QM4_XR	-7.6269	—	—	7.6270	0.0001	PLANE
QM4_ZR_HI	—	—	26.2757	26.2800	-0.0043	POINT
QM4_ZR_LO	—	—	26.2748	26.2800	-0.0052	POINT
QM4_ZL_HI	—	—	26.2762	26.2800	-0.0038	POINT
QM4_ZL_LO	—	—	26.2751	26.2800	-0.0049	POINT
C_BALL_A	6.7220	4.0888	44.2297	—	—	SPHERICITY
C_BALL_B	6.7159	4.0855	31.7439	—	—	SPHERICITY
C_BALL_C	6.7124	-3.0598	37.9862	—	—	SPHERICITY
C_BALL_D	-6.7305	4.0864	31.7533	—	—	SPHERICITY
C_BALL_E	-6.7255	4.0890	44.2438	—	—	SPHERICITY
C_BALL_F	-6.7198	-3.0634	37.9968	—	—	SPHERICITY
RAFT_BALL_1	12.5167	-6.5388	7.1843	—	—	SPHERICITY
RAFT_BALL_2	12.4967	-6.5652	36.1791	—	—	SPHERICITY
RAFT_BALL_3	-12.4878	-6.5454	8.4833	—	—	SPHERICITY
RAFT_BALL_4	-12.5078	-6.5593	35.4754	—	—	SPHERICITY
RC_BALL_R (Reboucher B1)	-5.7483	13.9145	21.0443	—	—	SPHERICITY
RC_BALL_L (Reboucher B1)	5.7730	13.9028	21.0288	—	—	SPHERICITY
RC_ZL_HI	—	—	18.4865	18.5035	-0.0170	POINT
RC_ZL_LO	—	—	18.4963	18.5035	-0.0072	POINT
RC_ZR_HI	—	—	18.4914	18.5035	-0.0121	POINT
RC_ZR_LO	—	—	18.5073	18.5035	0.0038	POINT
C_TOP_1	—	—	5.7134	5.7000	0.0134	POINT
C_TOP_2	—	—	5.7138	5.7000	0.0138	POINT
C_TOP_3	—	—	5.7114	5.7000	0.0114	POINT
C_TOP_4	—	—	5.7112	5.7000	0.0112	POINT

NOTE:

- THIS DRAWING ILLUSTRATES THE LOCATIONS FROM WHICH FIDUCIAL DATA WAS TAKEN.
- THE CHOPPER COVER IS REMOVED DURING MEASUREMENTS.

				UNLESS OTHERWISE SPECIFIED				SHOP ORDERS				SERIAL NO. _____ DATE ORDERED _____ DATE SHIPPED _____ DATE PAID _____				ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY			
				PROJECTION:															
				TOLERANCES				RECT NO. _____ ISO _____											
				X.X ± 0.1				FRACTION ± 1/64											
				X.XX ± 0.03				Angles ± 1.0°											
				X.XXX ± 0.010				FINISH 125											
				DO NOT SCALE PRINT				SUBJECT _____ IDENT _____ METHOD TAG _____ PROJECT NUMBER _____ PROJECT NAME _____ PROJECT NUMBER _____ PROJECT NAME _____											
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