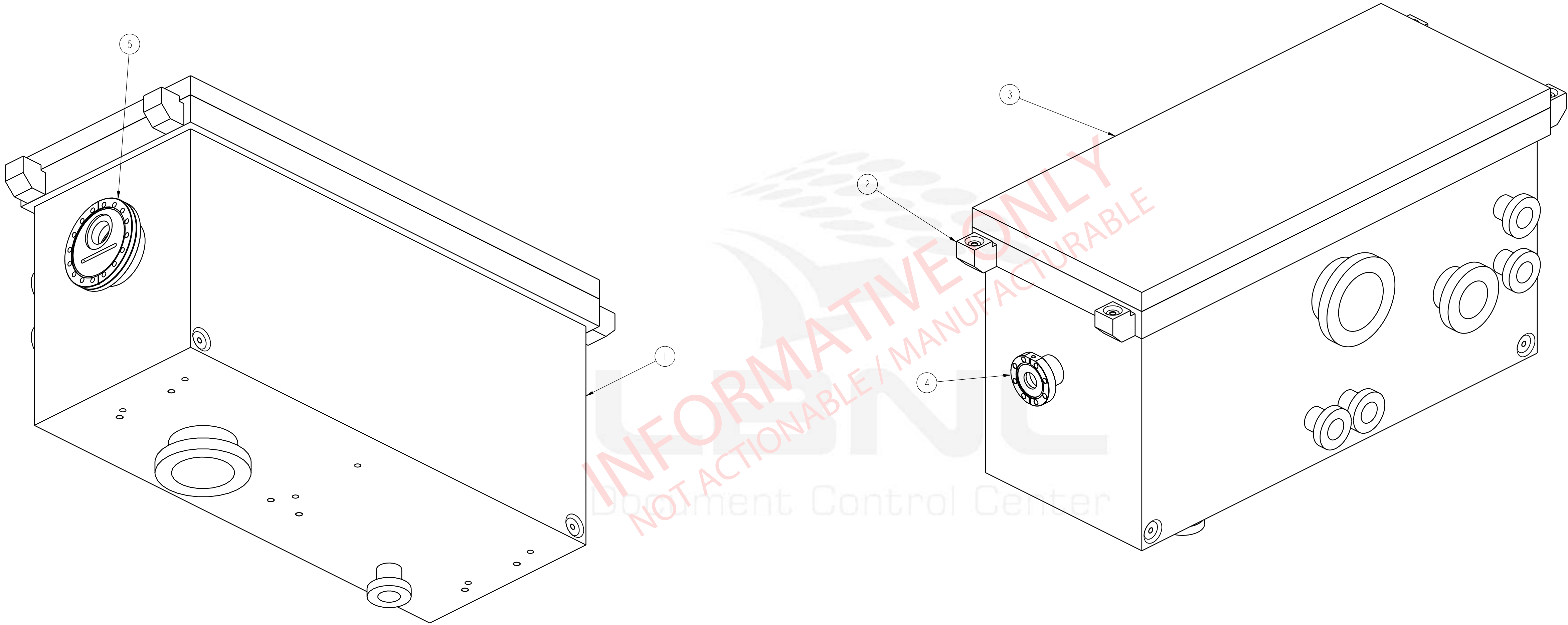


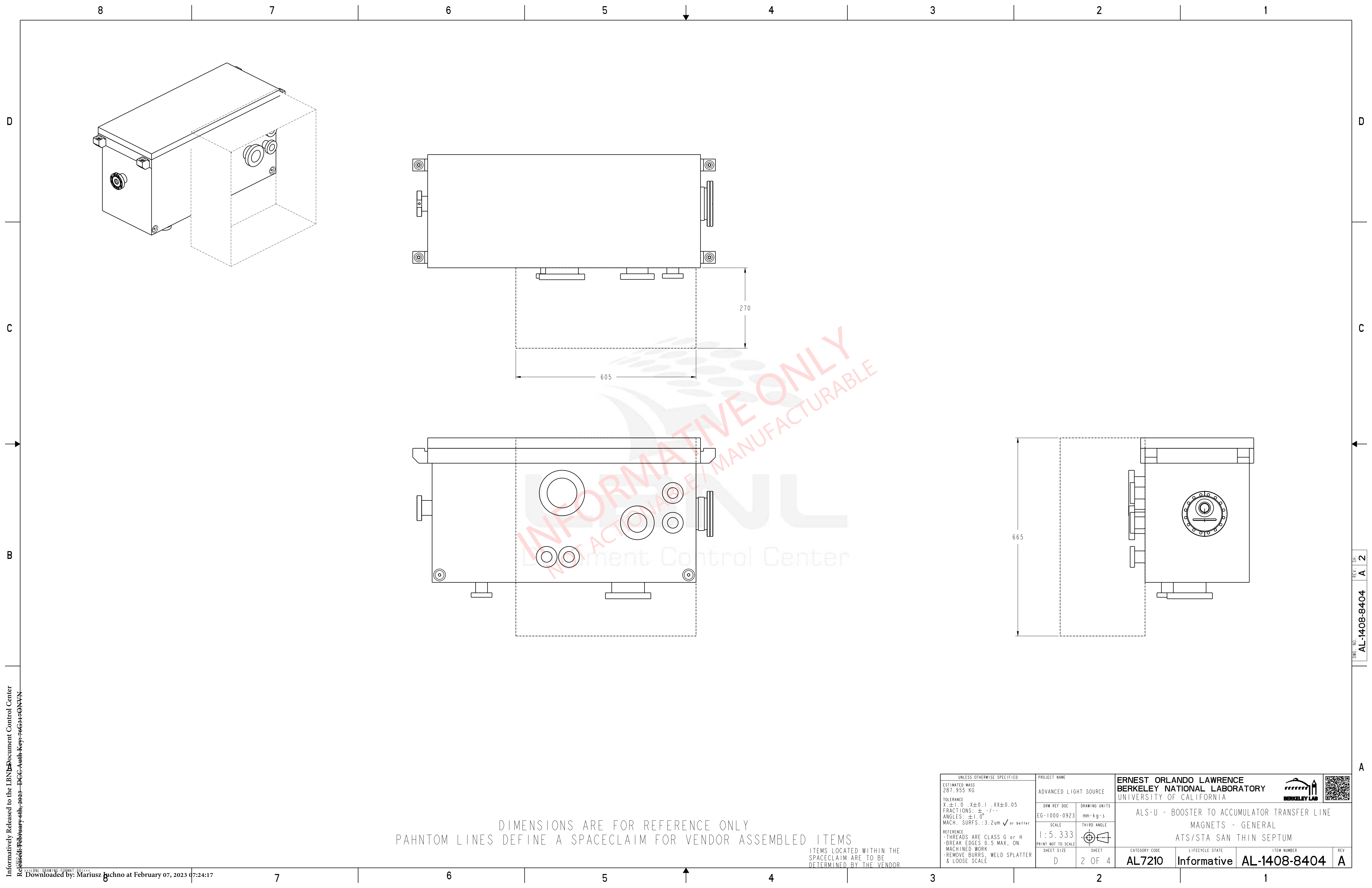
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- NOTES:
101. ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND VALUES ARE IN SI UNITS. DIMENSIONS AND VALUES IN BRACKETS ARE U.S. CUSTOMARY UNITS (inch) CONVERTED FROM MILLIMETERS / SI UNITS.
102. APPLICABLE STANDARDS AND SPECIFICATIONS:
- ASME Y14.5M-2009, DIMENSIONING AND TOLERANCING
 - ASME Y14.38, ABBREVIATIONS AND ACRONYMS
 - ASME Y14.36M, SURFACE TEXTURE SYMBOLS
 - ANSI / AWS A2.4, STANDARD SYMBOLS FOR WELDING
104. REMOVE ALL BURRS AND BREAK EDGES 0.25 [0.010] TO 0.75 [0.030] CHAMFER OR RADIUS. RADIi MUST MAKE A SMOOTH TRANSITION WITH ADJACENT SURFACES.
- 109a. ESTIMATED WEIGHT IS 287.955 KG (634.83 LBM)
901. REFERENCE AND NON DIMENSIONED FEATURES ARE TO BE DETERMINED BY THE VENDOR.



5	1	AL-1437-6166	FLANGE WITH BELLOWS, DN100, MODIFIED	SSTL-316L
4	1	AL-1566-8353	FLANGE, DN50, MODIFIED	SSTL-316LN
3	1	AL-1505-7295	CHAMBER LID, ALUM	ALUM-5083-0
2	4	AL-1519-4373	WELDMENT, SEPTUM, SMR NEST	ALUM-5083-0
1	1	AL-1219-9430	CHAMBER, ALUM	ALUM-5083-0
ITEM	QTY	ITEM NO.	DESCRIPTION	MATERIAL

CHANGE DESCRIPTION (SEE LBNL PDM FOR REV HISTORY)		UNLESS OTHERWISE SPECIFIED		PROJECT NAME		ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA			
BASELINE RELEASE		ESTIMATED MASS 287.955 KG		ADVANCED LIGHT SOURCE		ALS-U - BOOSTER TO ACCUMULATOR TRANSFER LINE MAGNETS - GENERAL ATS/STA SAN THIN SEPTUM			
AUTHOR	Dawson, Darryl	TOLERANCE X ±1.0 X ±0.1 XX ±0.05		DRW REF DOC	DRAWING UNITS				
CHECKED BY	bholmquist,smyers,ddawson,dlweich,mhaman,MJuchno	FRACTIONS: ± / -		EG-1000-0923	mm-kg-s				
CHECKED AT	Feb 6 2023 7:15:58 AM PST	ANGLES: ±1.0°		SCALE	THIRD ANGLE				
RELEASED BY	wiwaldron	MACH. SURFS.: 3.2um ✓ or better		1:4					
RELEASED AT	Feb 6 2023 8:34:10 AM PST	REFERENCE -THREADS ARE CLASS G or H -BREAK EDGES 0.5 MAX, ON MACHINED WORK -REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		PRINT NOT TO SCALE					
THIS DRAWING IS THE PROPERTY OF ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY (LBNL) AND ANYTHING PRODUCED FROM THESE DRAWINGS IS SUBJECT TO LBNL'S INTELLECTUAL PROPERTY RIGHTS. THIS DRAWING IS LOANED ON A CONFIDENTIAL BASIS SUBJECT TO RETURN ON DEMAND AND NOTHING HEREIN MAY BE REPRODUCED, USED OR DISCLOSED IN WHOLE OR PART WITHOUT PRIOR WRITTEN PERMISSION OF LBNL.				SHEET SIZE	SHEET	CATEGORY CODE	LIFECYCLE STATE	ITEM NUMBER	REV
				D	1 OF 4	AL7210	Informative	AL-1408-8404	A

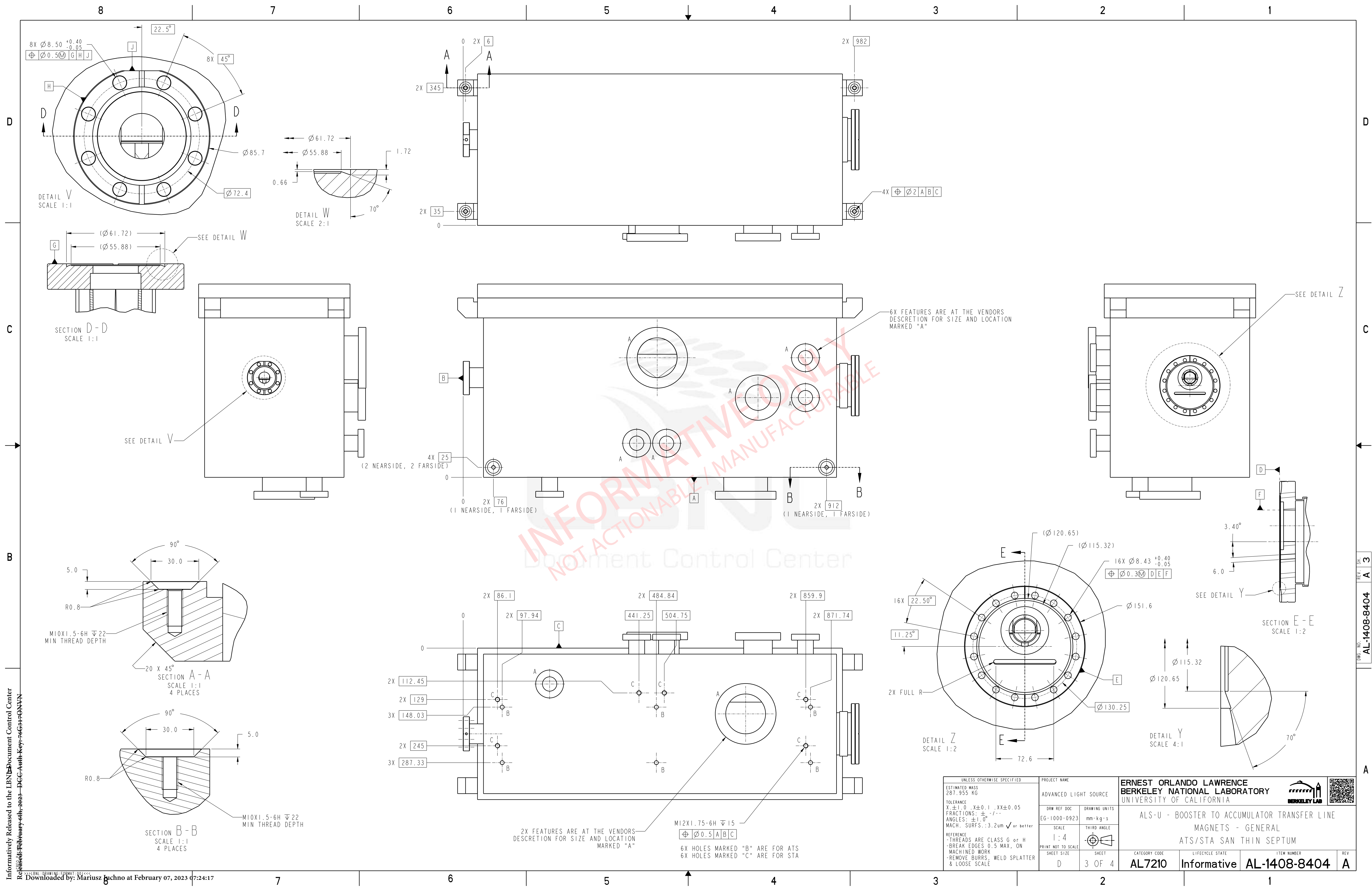


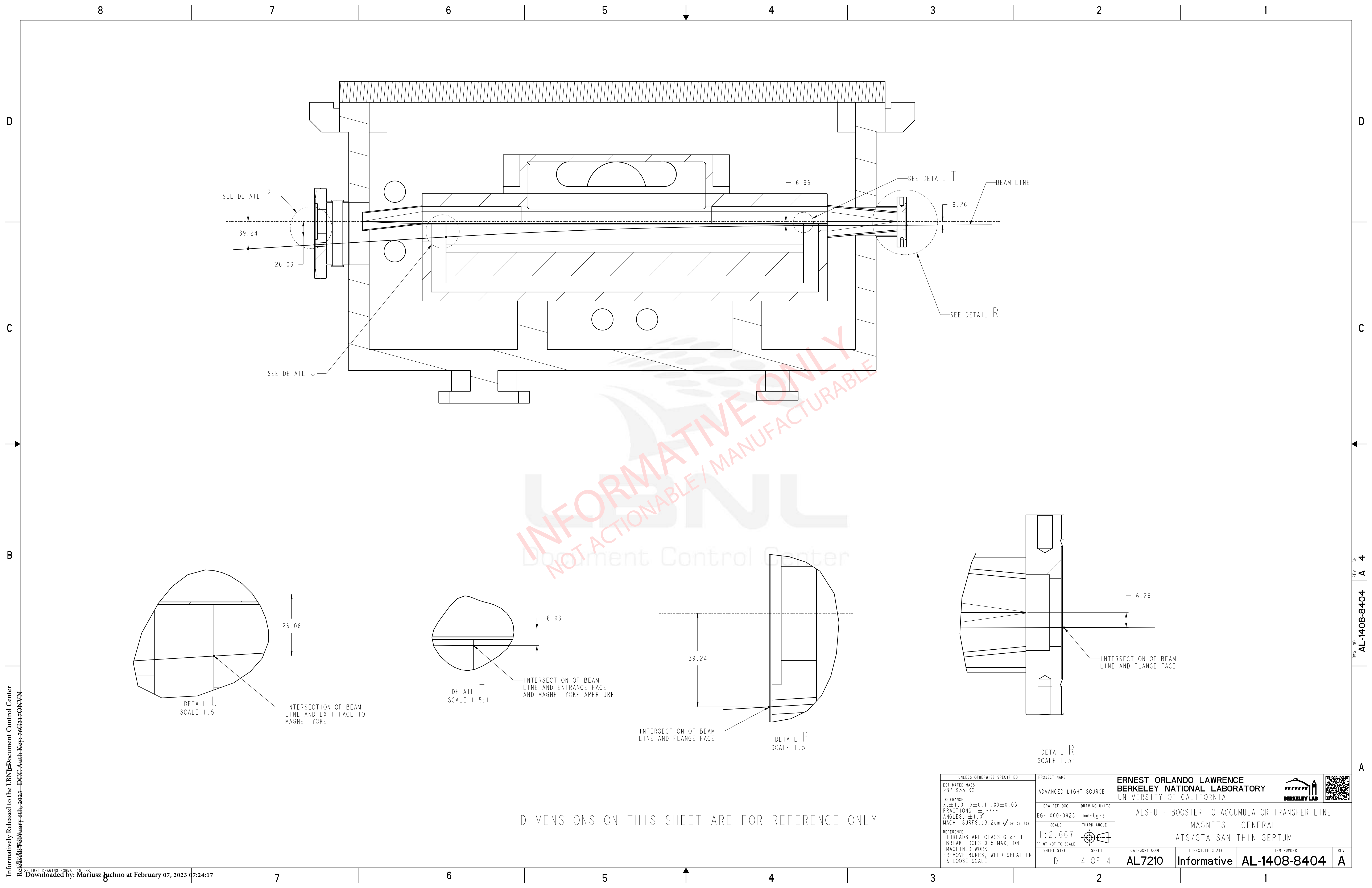
Informatively Released to the LBNL Document Control Center
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DIMENSIONS ARE FOR REFERENCE ONLY
PAHNTOM LINES DEFINE A SPACECLAIM FOR VENDOR ASSEMBLED ITEMS
ITEMS LOCATED WITHIN THE SPACECLAIM ARE TO BE DETERMINED BY THE VENDOR

UNLESS OTHERWISE SPECIFIED		PROJECT NAME		ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA			
ESTIMATED MASS 287.955 KG		ADVANCED LIGHT SOURCE		ALS-U - BOOSTER TO ACCUMULATOR TRANSFER LINE MAGNETS - GENERAL ATS/STA SAN THIN SEPTUM			
TOLERANCE X ±1.0 , XX ±0.1 , XXX ±0.05 FRACTIONS: ± / - - ANGLES: ±1.0° MACH. SURFS.: 3.2um ✓ or better		DRW REF DOC EG-1000-0923	DRAWING UNITS mm·kg·s				
REFERENCE -THREADS ARE CLASS G or H -BREAK EDGES 0.5 MAX, ON MACHINED WORK -REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		SCALE 1:5.333 PRINT NOT TO SCALE	THIRD ANGLE	CATEGORY CODE AL7210	LIFECYCLE STATE Informative	ITEM NUMBER AL-1408-8404	REV A
		SHEET SIZE D	SHEET 2 OF 4				





DIMENSIONS ON THIS SHEET ARE FOR REFERENCE ONLY

UNLESS OTHERWISE SPECIFIED		PROJECT NAME		ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA			
ESTIMATED MASS 287.955 KG		ADVANCED LIGHT SOURCE		ALS-U - BOOSTER TO ACCUMULATOR TRANSFER LINE MAGNETS - GENERAL ATS/STA SAN THIN SEPTUM			
TOLERANCE X ± 1.0, XX ± 0.1, XXX ± 0.05		DRW REF DOC	DRAWING UNITS	CATEGORY CODE			
FRACTIONS: ± 1/2		EG-1000-0923	mm-kg-s				
ANGLES: ± 1.0°		SCALE	THIRD ANGLE	LIFECYCLE STATE		ITEM NUMBER	
MACH. SURFS.: 3.2um ✓ or better		1:2.667	PRINT NOT TO SCALE	Informative		AL-1408-8404	
REFERENCE -THREADS ARE CLASS G or H -BREAK EDGES 0.5 MAX, ON MACHINED WORK -REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		SHEET SIZE	SHEET	REV			
		D	4 OF 4	A			