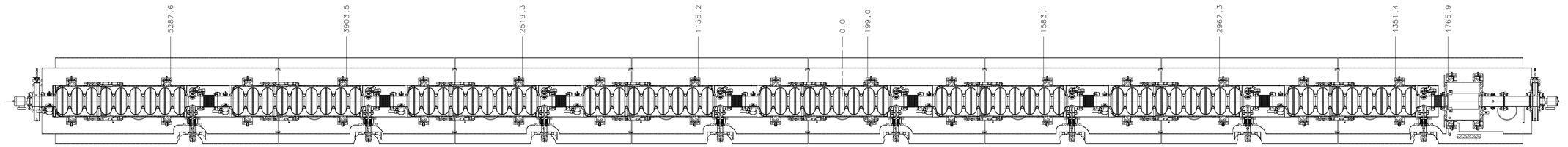
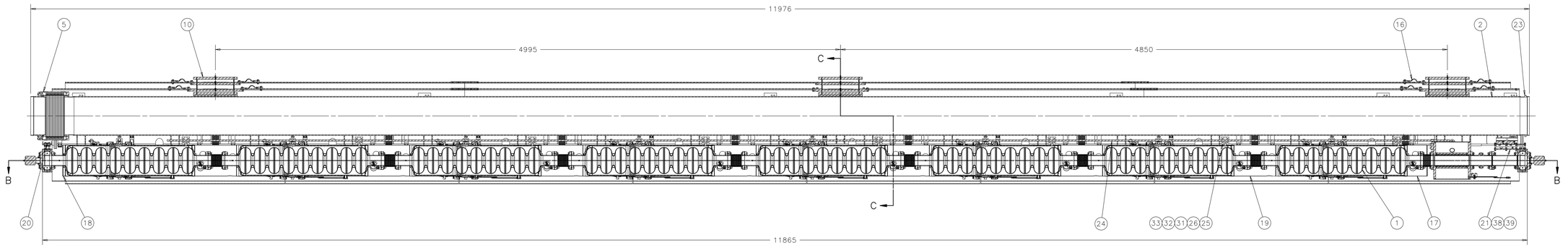
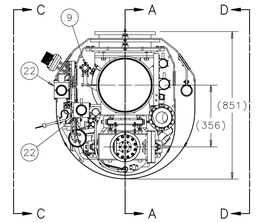
REVISION HISTORY					
CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.					
ZONE	REV	DESCRIPTION	DATE	CHECKED	APPROVED
	A	INITIAL RELEASE			

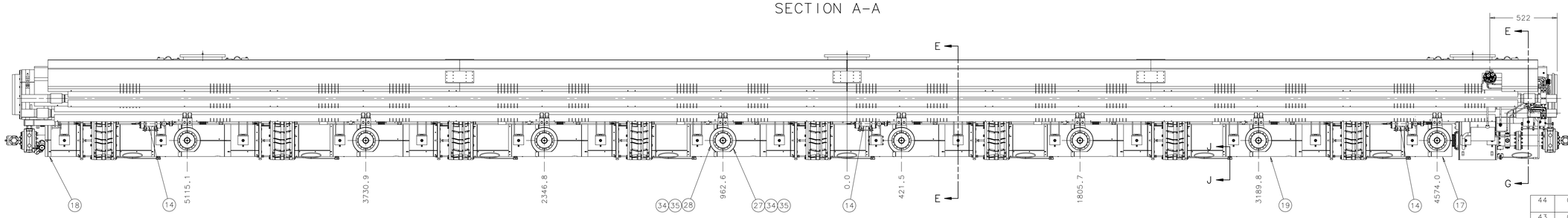


SECTION B-B



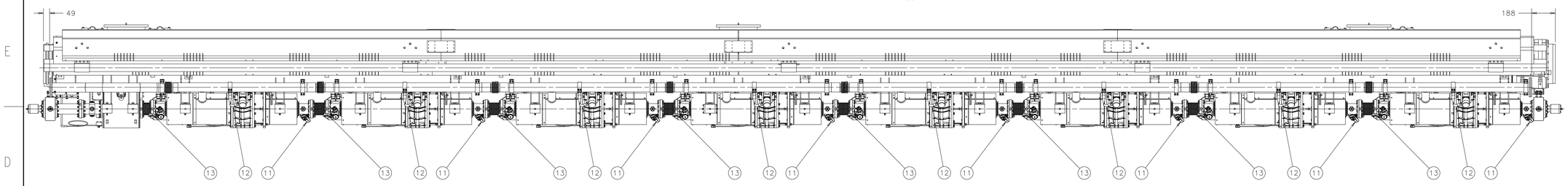


SECTION A-A



VIEW C-C

LOWER SHILDING FOR ITEMS ## 3 & 4 ARE NOT SHOWN

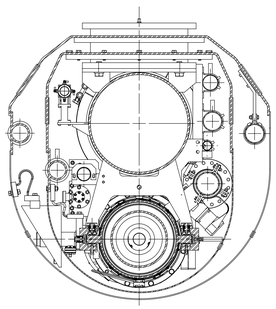


VIEW D-D

LOWER SHILDING FOR ITEMS ## 3 & 4
AND ITEMS ## 17,18 & 19 ARE NOT SHOWN

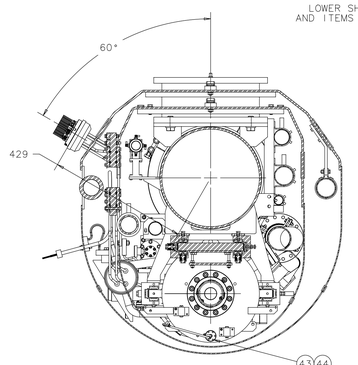
NOTES (UNLESS OTHERWISE SPECIFIED):

1. ALL DIMENSIONS, UNLESS SPECIFIED, ARE IN ROOM TENPERATURE.
2. ASSEMBLY PER FERMILAB ENGINEERING SPECIFICATION: 5520.000-ES-
3. MAINTAIN A DIRT & GREASE - FREE WORKING ENVIRONMENT, KEEPS ALL AND ASSEMBLIES FREE OF DIRT, GREASE, OIL AND CHIPS.
4. FABRICATE ALL PIPING CONNECTION PER ASME B31.3, NORMAL FLUID SE
5. ALL CONTINUOUS WELDS TO BE VACUUM LEAK TIGHT. NO LEAK SHALL BE ON THE MOST SENSITIVE SCALE OF A HELIUM LEAK DETECTOR WITH A MINIMUM SENSITIVITY OF 10^{-10} ATM. CC/SEC.(???)
6. PROTECT ALL SEALING SURFACES FROM DENTS AND SCRATCHES.



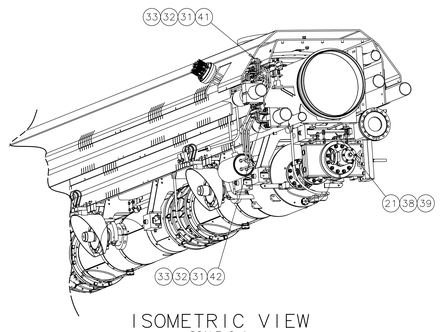
SECTION E-E

SCALE 0.150



SECTION G-G

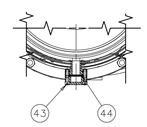
SCALE 0.150



ISOMETRIC VIEW

SCALE 0.1

LOVER SHIELDS FOR ITEMS ## 3 & 4
NOT SHOWN



SECTION J-J

SCALE 0.25

PARTS LIST			
ITEM	P.I.N.	DESCRIPTION	QTY
44	COM'L	GASKET COPPER, 1.33" CF MDC PART # 191000	54
43	COM'L	SOCKED HEAD SCREW/PLATE NUT MDC PART # 190094	54/27
42	COM'L	EARTH BRAIDS WITH INTEGRAL PALMS WWW.ERICO.COM P/N 563320 (MBJ16-300-6)	4
41	COM'L	EARTH BRAIDS WITH INTEGRAL PALMS WWW.ERICO.COM P/N 563300 (MBJ16-200-6)	4
40	COM'L	HEX NUT M8-1.25, BRASS	48
39	COM'L	WASHER M8, 316SS	148
38	COM'L	HHCS M8-1.25X20, 316SS	4
37	COM'L	HHCS M8-1.25X25, 316SS	24
36	COM'L	HHCS M8-1.25X30, 316SS	72
35	COM'L	WASHER M4, 316SS	48
34	COM'L	HHCS M4-0.7X8, 316SS	48
33	COM'L	WASHER M6, 316SS	56
32	COM'L	HEX NUT M6-1.0, 316SS	56
31	COM'L	HEX SCREW M6-1.0X40, 316SS	56
30	ITF-CRY3-08.01.00	SUPERINSULATION	1
29	729431	INTERCEPT 4-5K MC	8
28	732931	HEAT SHIELD MC-B	8
27	732941	HEAT SHIELD MC-A	8
26	68205/0.001	SPACER, ITEM 2 (DESY)	16
25	68205/0.001	INVAR ROD BLOCK, ITEM 2 (DESY)	32
24	68205/0.001	INVAR ROD, ITEM 1 (DESY)	1
23	2999101/A.003	RING (DESY)	1
22	878995	BRACKET INTERCEPT ASSY	2
21	880115	VAT SUPPORT ASSY	1
20	880215	VAT SUPPORT CAVITY ASSY	1
19	866745	INTERCONNECT MAG SHIELD ASSY	7
18	898215	SHIELD CAVITY-VAT ASSY	1
17	902125	SHIELD CAVITY-MAGNET-1 ASSY	1
16	883295	4K SHIELD BRAID ASSY-POST CPLR	24
15	881865	BRAID 80K ASSEMBLY	16
14	902925	CRYOGENIC MONITOR W-SUPPORT ASSY	3
13	899075	BRAIDS HOM-1 ASSY	8
12	899145	BRAID TUNER MOTOR ASSY	8
11	899105	BRAIDS HOM-2 ASSY	8
10	ME-314514	SUPPORT POST ASSEMBLY	3
9	ITF-CRY3+10.00.00	WPM LINE ASSEMBLY(INFN)	1
8	ITF-CRY3-04.01.00	70K PIPE(INFN)	1
7	1068205/0.210	WARM UP TUBE (DESY)	1
6	1068205/0.200	1.8K PIPE-4.5K PIPE (DESY)	1
5	2999101/A.000	RETURN PIPE HEAD (DESY)	1
4	682050170	70K SHIELD (DESY)	1
3	682050150	4.5K SHIELD (DESY)	1
2	682050110	RETURN PIPE (DESY)	1
1	884475	CAVITY STRING CM2 ASSY	1

-	-
NEXT ASSY	USED ON
APPLICATION	

FINISH: N/A

MATERIAL: SEE PART LIST

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
INTERPRET DIM PER ASME Y14.5M-1994
BREAK ALL SHARP EDGES .75 MAX.
ALL MACH. SURFACES 3.2 MAX.

TOLERANCES: X ± 2, X ± 0.8, XX ± 0.13, ANGLE ± 1°
THIRD ANGLE PROJECTION

DRAWN BY: Y. ORLOV — DATE: 23AUG11
CHECKED BY — DATE
ENGINEERED BY — DATE
DATABASE: DESY EDMS — TEAM/GROUP
CAD: I-DEAS — SOLID MODEL NO.: D0000000730083

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY
P.O. BOX 500, BATAVIA, IL 60510-0500

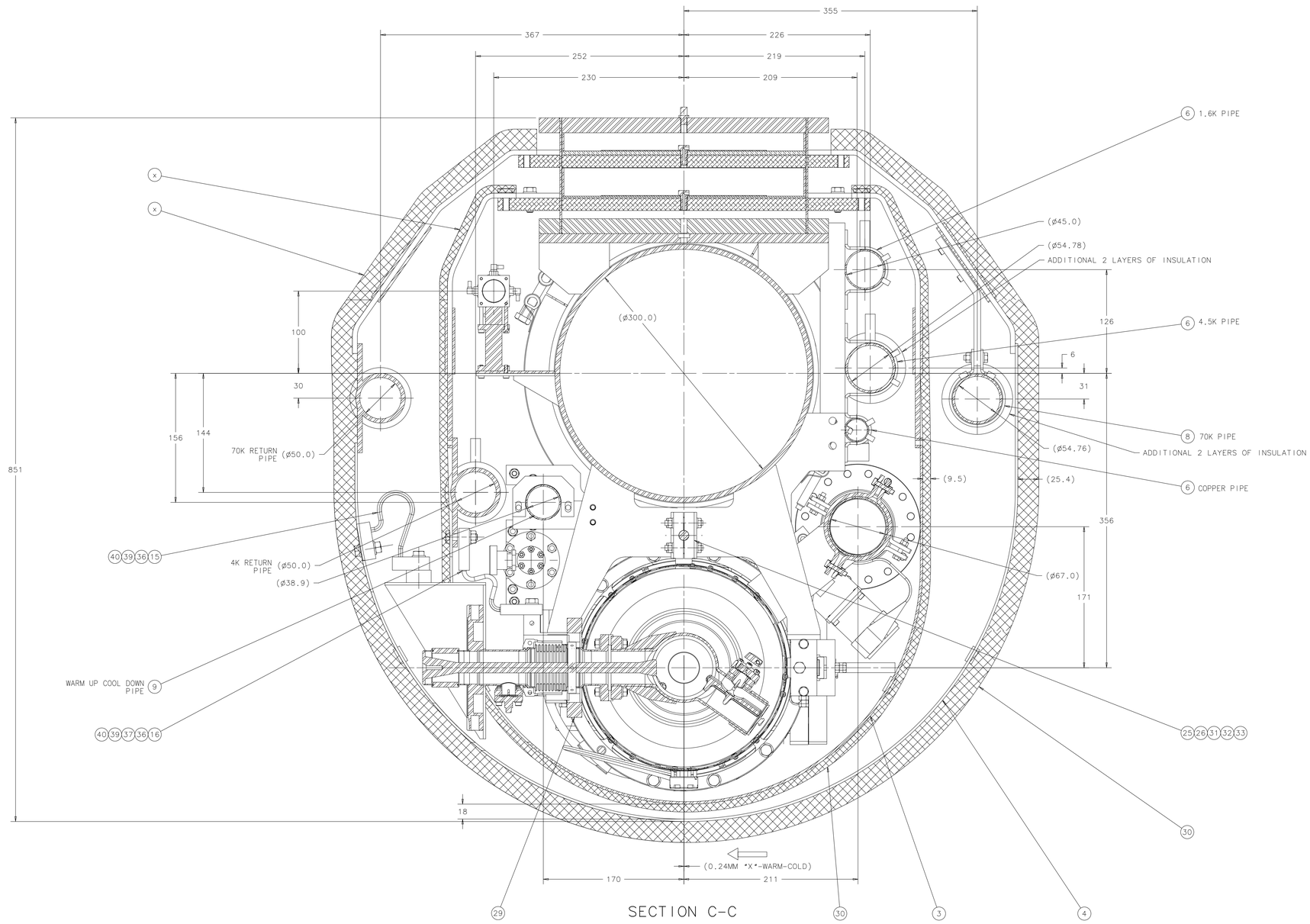
TITLE: CRYOMODULE 2 COLD MASS COLD_MASS_CM-2_ASSY

SIZE	CAGE CODE	DWG NO.	REV
A0	0U5R6	D000000000906795	A

SCALE 1:2 — DO NOT SCALE DRAWING — SHEET 1 OF 2

Created: 15:08:33 on 23-08-11 (D-M-Y) By: orlov State: 1-INITIAL

REVISION HISTORY					
CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.					
ZONE	REV	DESCRIPTION	DATE	CHECKED	APPROVED
	A	INITIAL RELEASE			



SECTION C-C

SCALE 1:2

-	-
NEXT ASSY	USED ON
APPLICATION	

FINISH: N/A	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS INTERPRET DIM PER ASME Y14.5M-1994 BREAK ALL SHARP EDGES .75 MAX. ALL MACH. SURFACES 3.2 MAX.	DRAWN BY: Y. ORLOV	DATE: 23AUG11
MATERIAL: SEE PART LIST		CHECKED BY	DATE
		ENGINEERED BY	DATE
		DATABASE: DESY EDMS	TEAM/GROUP
	TOLERANCES: X ± 2, .X ± 0.8, .XX ± 0.13, ANGLE ± 1°	CAD: I-DEAS	SOLID MODEL NO.: D00000000730083

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY
P.O. BOX 500, BATAVIA, IL 60510-0500

TITLE
CRYOMODULE 2
COLD MASS
COLD_MASS_CM-2_ASSY

SIZE	CAGE CODE	DWG NO.	REV
A0	0U5R6	D00000000906795	A
SCALE 1:2	DO NOT SCALE DRAWING		SHEET OF 2