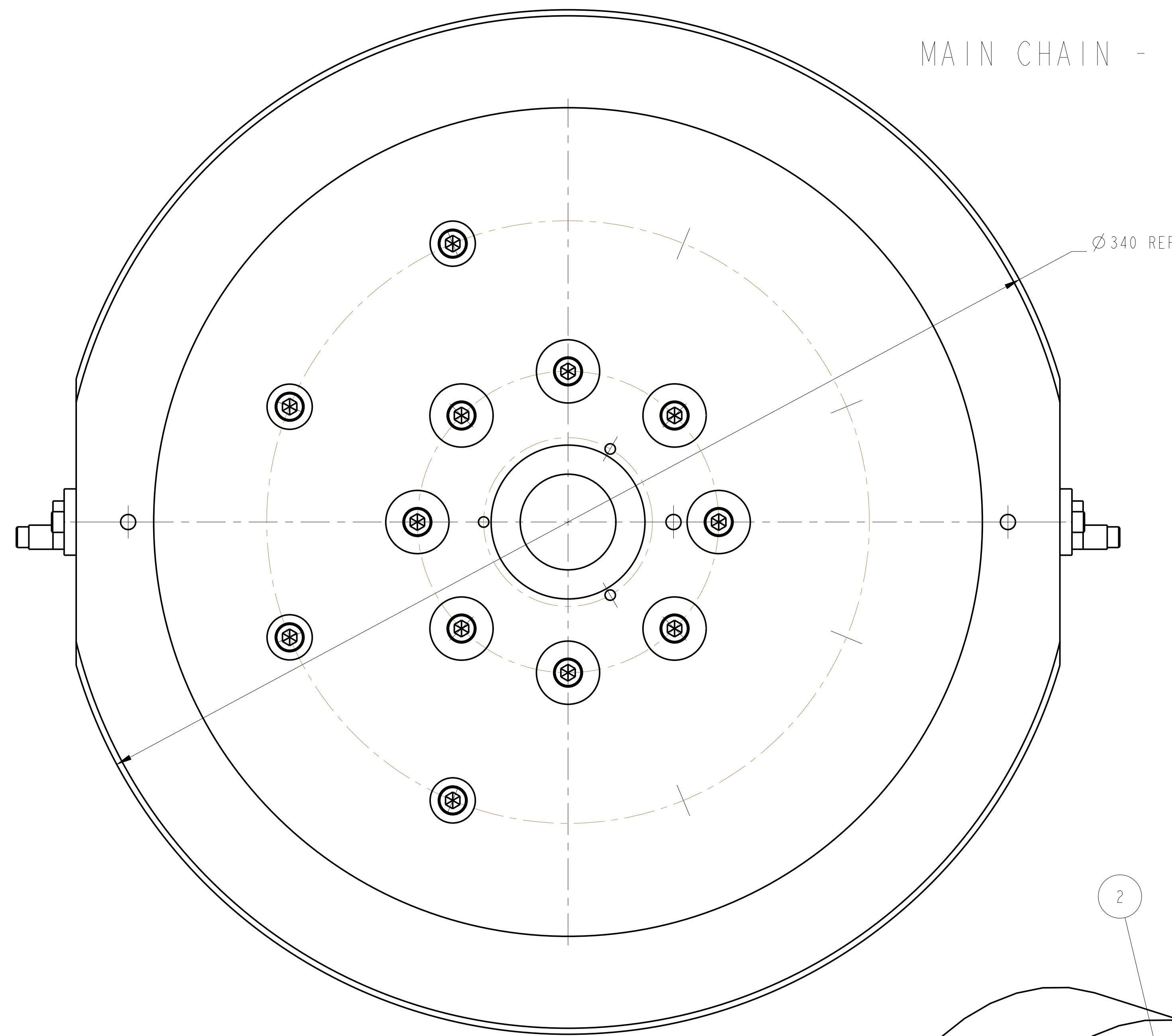
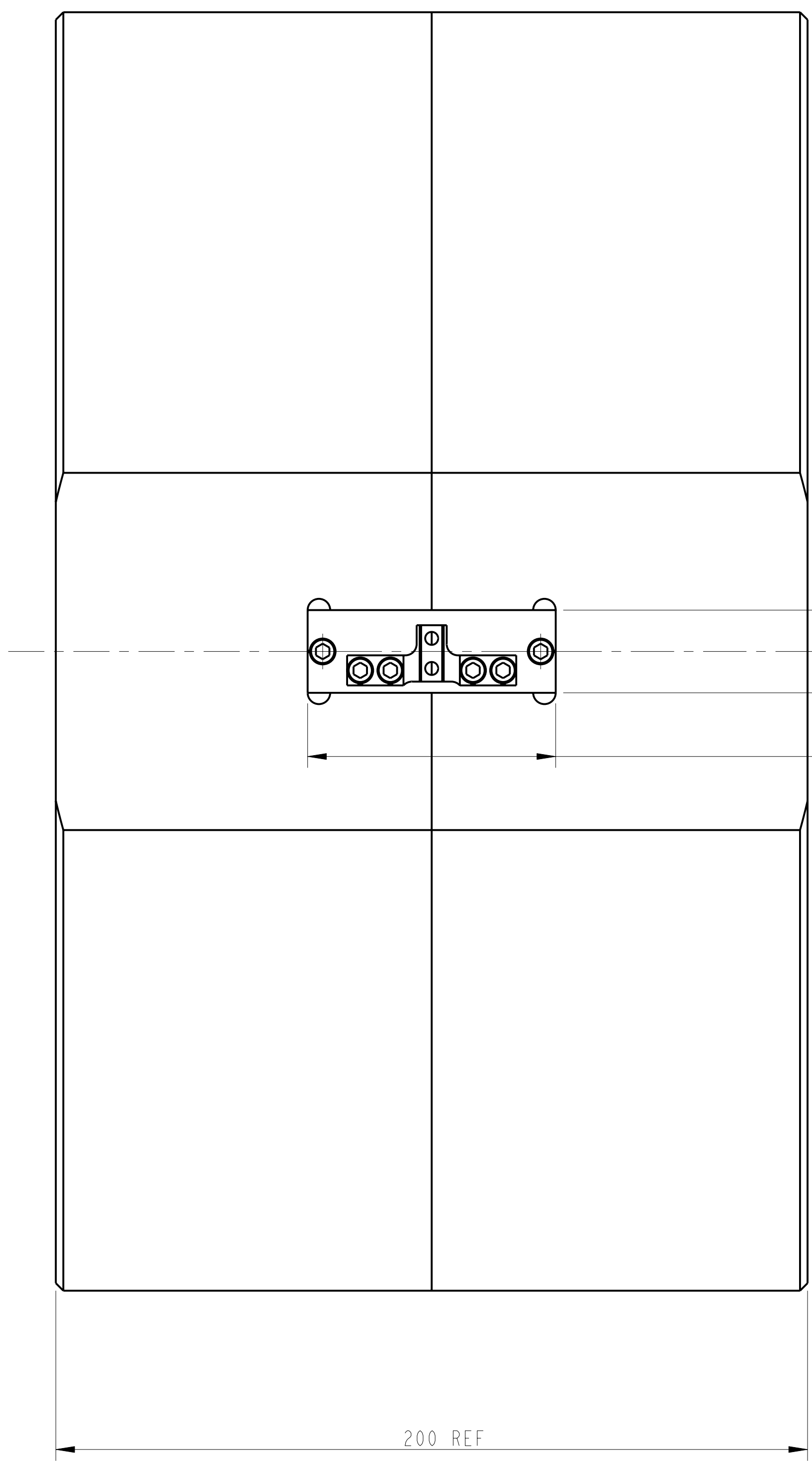


REV	DATE	DCN #	DRAWING TABLE #
A	15/OCT/06	E060240	
B	20/DEC/07	E060240-B	
F	21/JULY/08	E080370	

MAIN CHAIN - TEST MASS DUMMY



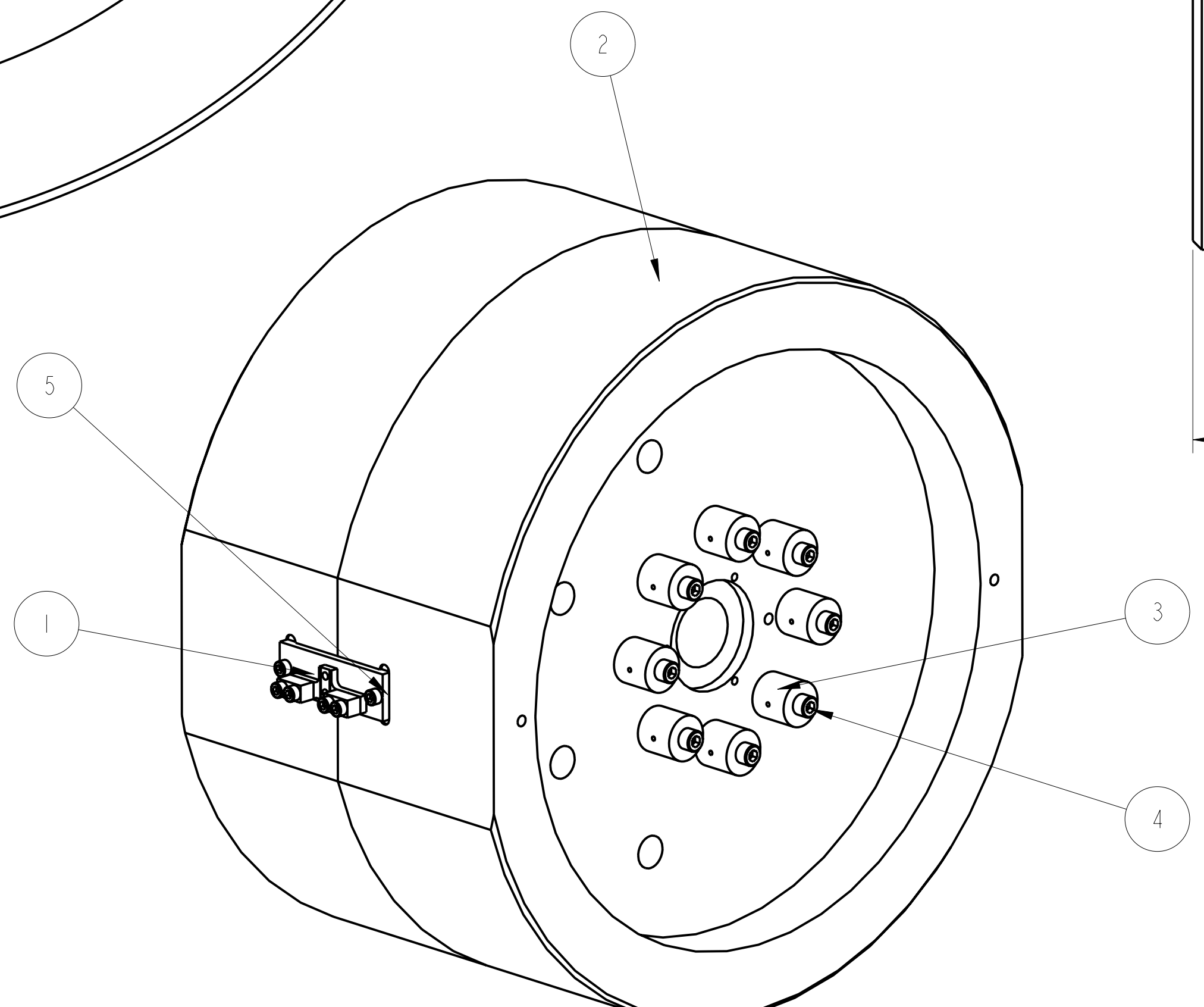
Ø 340 REF



66 REF

22 REF

200 REF



3D VIEW
SCALE 1:2

MASS AS SHOWN: 39.36 KG
(INCLUDES 16 X 50g REMOVABLE MASSES)

PRINCIPAL MOMENTS OF INERTIA:
 I_{yy} : 397193.448 kg/mm²
 I_{xx} : 404370.502 kg/mm²
 I_{zz} : 608139.702 kg/mm²

ITEM	QTY	SPARE	TOTAL	PART NUMBER	DESCRIPTION	MATERIALS
1	2			D060337	PENULTIMATE MASS WIRE CLAMP; PEN RE MASS	AS DRW; AS DRAWN
2	2			D060358	DUMMY TEST MASS SIDE; . . .	AL ALLOY; 5083
3	16			D060359-050-0	ADDITIONAL MASS; . . .	ST STEEL; 316
4	24				1/4" 20 UNC X 1" CAP HEAD; . . .	
5	4				8-32 x 1.50 UNC THREAD INSERT; . . .	

NOTES: (UNLESS OTHERWISE SPECIFIED)
 1. REMOVE ALL SHARP EDGES.
 2. DO NOT SCALE FROM DRAWING.
 3. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE. SUCH AS CINCINNATI MILACRON'S CIMTECH 410 (STAINLESS STEEL).
 4. SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON NOTED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST PART AND PROCEED CONSECUTIVELY. USE .07" HIGH CHARACTERS. EXAMPLE: 000100-001 - A VIBRATORY TOOL MAY BE USED.

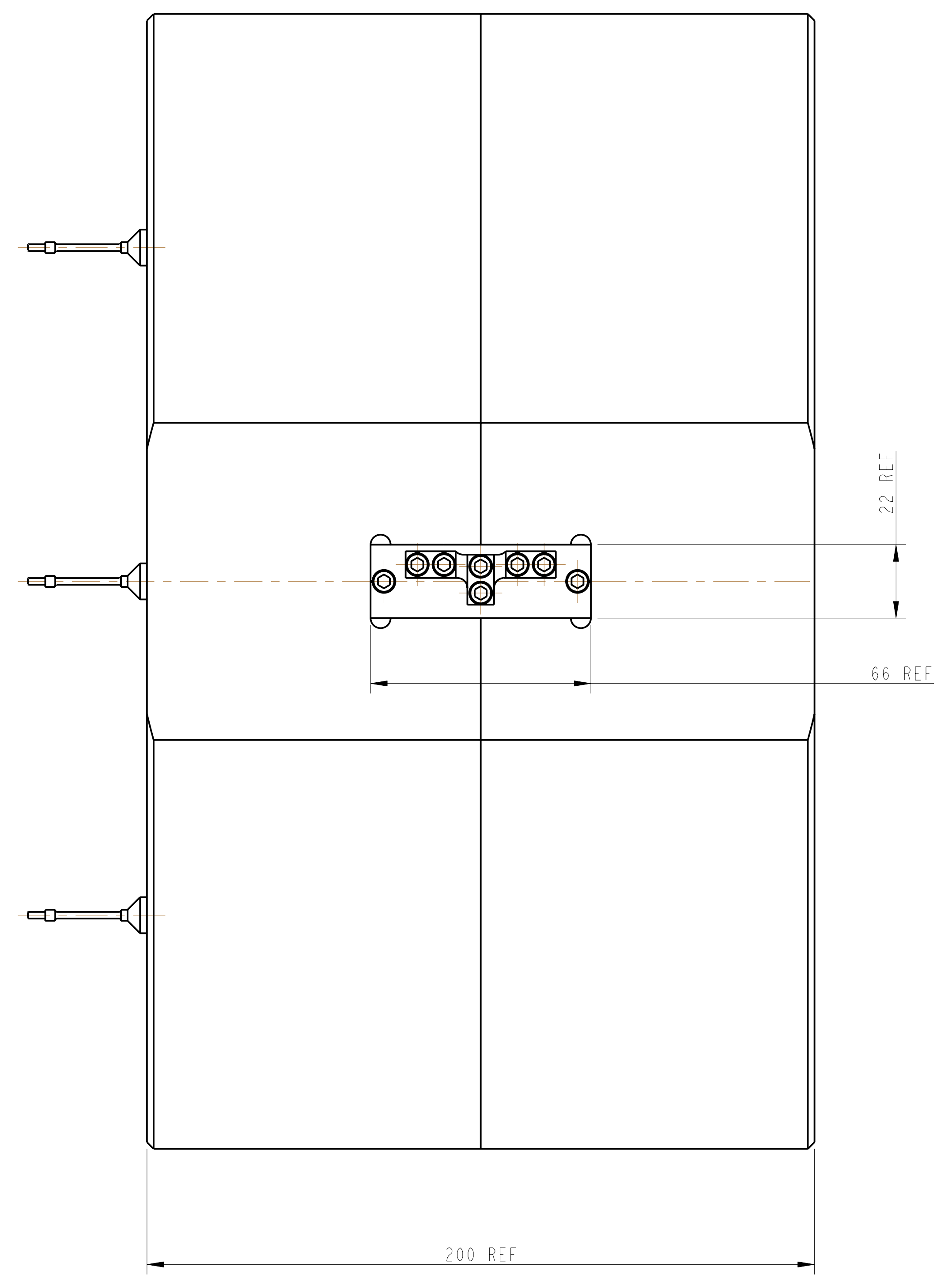
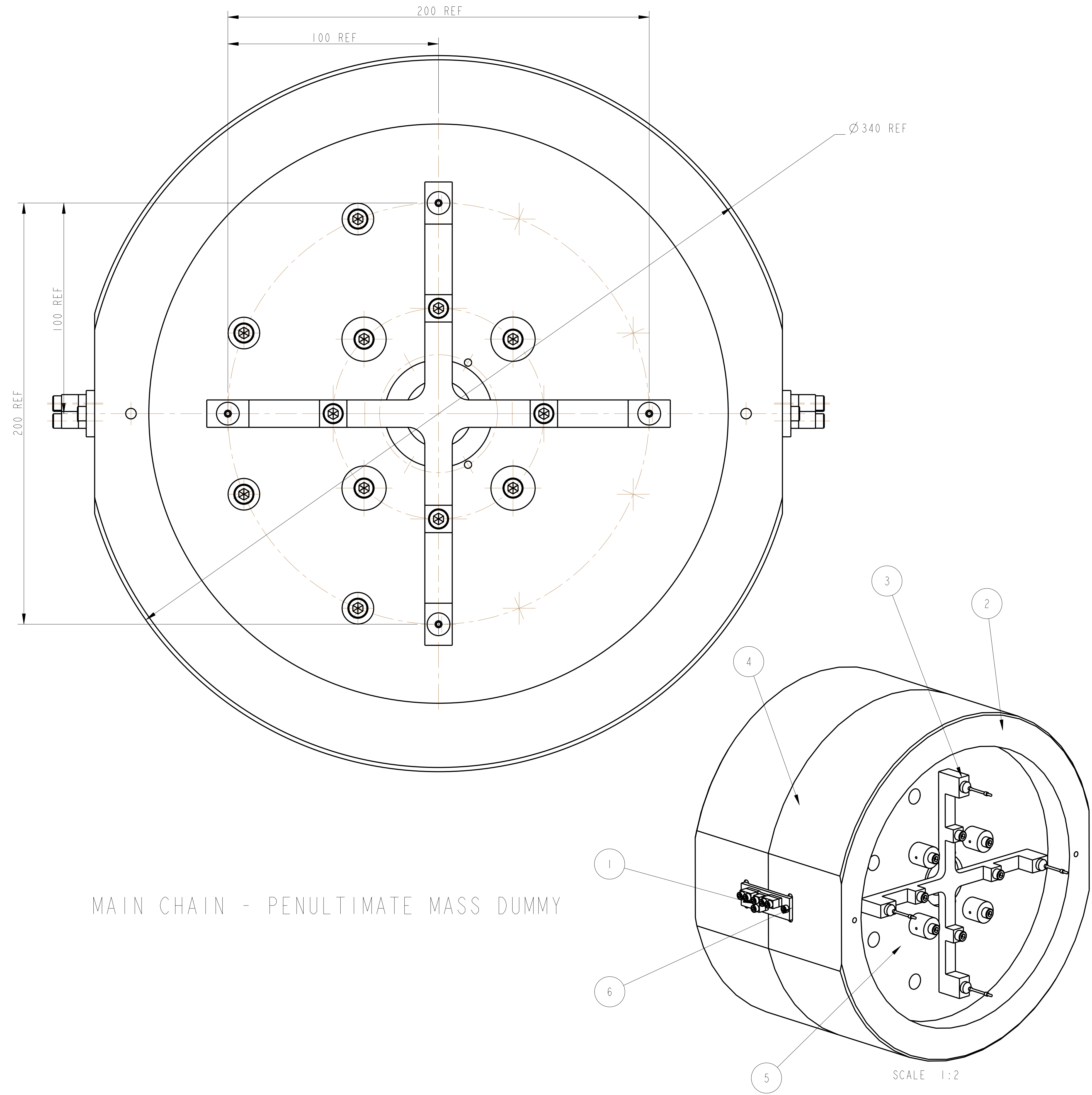
DIMENSIONS ARE IN mm (INCHES)
 TOLERANCES:
 $x, xx \pm .13$
 ANGULAR $\pm .5$

MATERIAL: AS DRW
 FINISH: AS DRW
 \sqrt{Ra} (µm) Ra :

NAME: DATE:
 DRAWN: I WILMOT 30/06/09
 CHECKED: MB 15/MAR/10
 APPROVED: JOD 15/MAR/10

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 RUTHERFORD APPLETON LABORATORIES

SYSTEM: aLIGO
 SUB-SYSTEM: SUS
 NEXT ASSY: QUAD
 PART NAME: DUMMY MAIN CHAIN ROUND MASS
 QUAD MAIN CHAIN
 DRG. NO.: D060355
 SCALE: 1:1
 SHEET 1 OF 2



MAIN CHAIN - PENULTIMATE MASS DUMMY

ITEM	QTY	SPARE	TOTAL	PART NUMBER	DESCRIPTION	MATERIALS
1	2			0060337	PENULTIMATE MASS WIRE CLAMP; PEN RE MASS	AS DRW; AS DRAWN
2	2			0060358	DUMMY TEST MASS SIDE;	AL ALLOY; 5083
3	1			0070234	PEN RE MASS MAGNETS; (EXTERNAL SHEILDED MAGNETS)	AS DRW; -----
4	12			0060359-050.0	ADDITIONAL MASS;	ST STEEL; 316
5	24				1/4" 20 UNC X 1" CAP HEAD;	
6	4				B-32 x 1.50 UNC THREAD INSERT;	

NOTES: (UNLESS OTHERWISE SPECIFIED)

- REMOVE ALL SHARP EDGES. R.02 MIN.
- DO NOT SCALE FROM DRAWING.
- ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE. SUCH AS CINCINNATI MILACRON'S CIMTECH 410 (STAINLESS STEEL).
- SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON NOTED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST PART AND PROCEED CONSECUTIVELY. USE 07* HIGH CHARACTERS. EXAMPLE: 000100-001 - A VIBRATOR TOOL MAY BE USED.

DIMENSIONS ARE IN mm (INCHES) TOLERANCES:
 X XX ± .13
 ANGULAR ± .

FINISH: AS DRW
 √(µm (1µin)) Ra = -----

DRAWN	WLM/MT	30/06/09	DATE
CHECKED	MB	15/MAR/10	DATE
APPROVED	JOD	15/MAR/10	DATE

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 GLASGOW UNIVERSITY GEC ROX GROUP
 RUTHERFORD APPLETON LABORATORIES

SYSTEM: **aLIGO**
 SUB-SYSTEM: **SUS**
 NEXT ASSY: **QUAD**
 PART NAME: **DUMMY MAIN CHAIN ROUND MASS QUAD MAIN CHAIN**
 DRG. NO.: **0060355**
 SCALE: 1:1 PROJECTION: **K**

SCALE 1:2