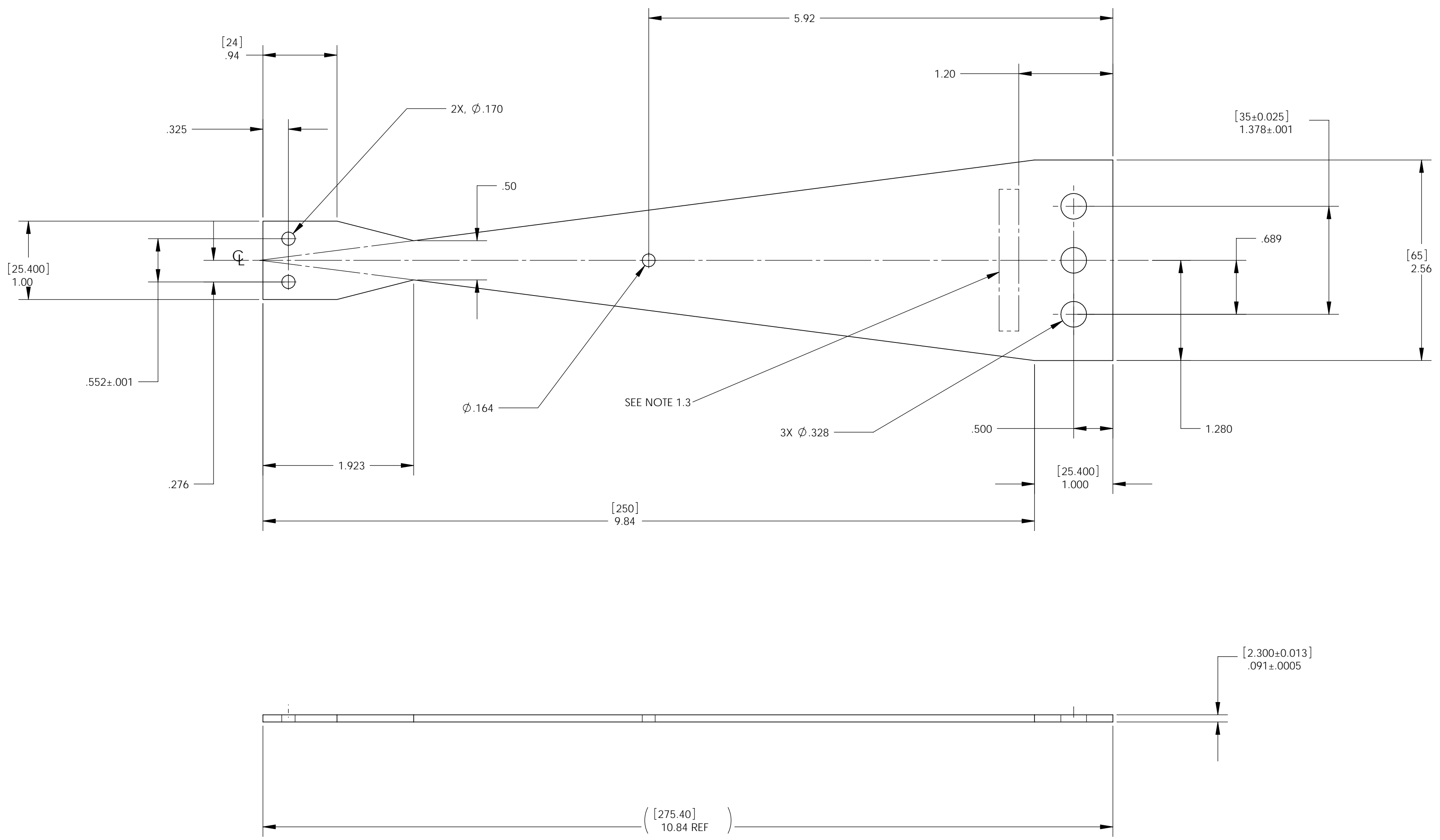


REV.	DATE	DCN #	DRAWING TREE #
08	17 JAN 08	UPDATED PER LATEST COMPUTATIONS.	
A	1 FEB 08	RELEASED FOR RFQ PER DCN E080066	
B	17th Apr 08	E080169-00	
C	24th Apr 08	E080179-00	



NOTES: (UNLESS OTHERWISE SPECIFIED)		OTHER NOTES (FOR INTERNAL USE)		PARTS LIST	
1.1 REMOVE ALL SHARP EDGES, R.02 MIN.	1.2 ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S C/MTCH 410 (STAINLESS STEEL).	2.1 SHAPE FACTOR UPPER BLADE = 1.36	2.2 LOAD ON UPPER BLADE (FLAT) = 18.215 kg	2.3 PREDICTED UNCOUPLED FREQUENCY = 2.70 Hz	2.4 PREDICTED FIRST INTERNAL MODE = 139 Hz
1.3 ENGRAVE OR STAMP DRAWING PART AND THREE DIGITS SERIAL NUMBER ON NOTED SURFACE OF PART. SERIAL NUMBER STARTS AT 001 FOR THE FIRST PART AND PROCEEDS CONSECUTIVELY. USE 017 RIGHT CHARACTERS. EXAMPLE: D020617-001. A VIBRATORY TOOL MAY BE USED.	1.4 SHEET 1 OF 2 SHOWS VIEWS PRIOR TO FORMING.	2.5 MAXIMUM STRESS = 780 MPa	2.6 SOLIDWORKS RADIUS VALUE OVER WRITTEN WITH VALUE CALCULATED BY NAR.	2.7 IN SOLIDWORKS PART, BLADE MUST BE DRAWN SHEET METAL AND EXTRUDED VERTICALLY DOWNWARDS.	2.8 IN SOLIDWORKS PART, RADIUS SHOULD BE ADJUSTED TO ATTAIN DESIRED LENGTH ON DRAWING SHEET.
1.5 AFTER FORMING, HEAT TREAT AT 435 °C FOR 100 HOURS	1.6 SHEET 2 OF 2 HAS VIEWS SHOWING BLADE AFTER FORMING AND ANNEALING.	DIMENSIONS ARE IN [MM] INCHES			
1.7 AS SHOWN IN SHEET 2 OF 2, THE RADIUS OF CURVATURE IS THE INTERNAL RADIUS.	1.8 AS SHOWN, THE OVERALL DEFLECTION IS MEASURED FROM THE BOTTOM OF THE BASE POINT TO THE HIGHEST POINT ON THE TIP OF THE BLADE.	TOLERANCES: XX ± 0.01 XXX ± 0.005 ANGULAR ± 0.5 °			
		MATERIAL MARAGING STEEL C250		FINISH	
		DRAWN B KIRSNER JAN 17, 2008		NAME CIT JAN 17, 2008	
		CHECKED CIT JAN 17, 2008		APPROVED	
		SCALE: NIS		PROJECTION:	
		SIZE C		DWG. NO. D020617	
		REV. C		SHEET 1 OF 2	

CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 IGR, GLASGOW UNIVERSITY GEO 600 GROUP

SYSTEM
ADVANCED LIGO

SUB-SYSTEM
RM SUS OVERALL ASSY

NEXT ASSY
ROTATIONAL ADJUSTER ASSY

PART NAME
RM UPPER BLADE

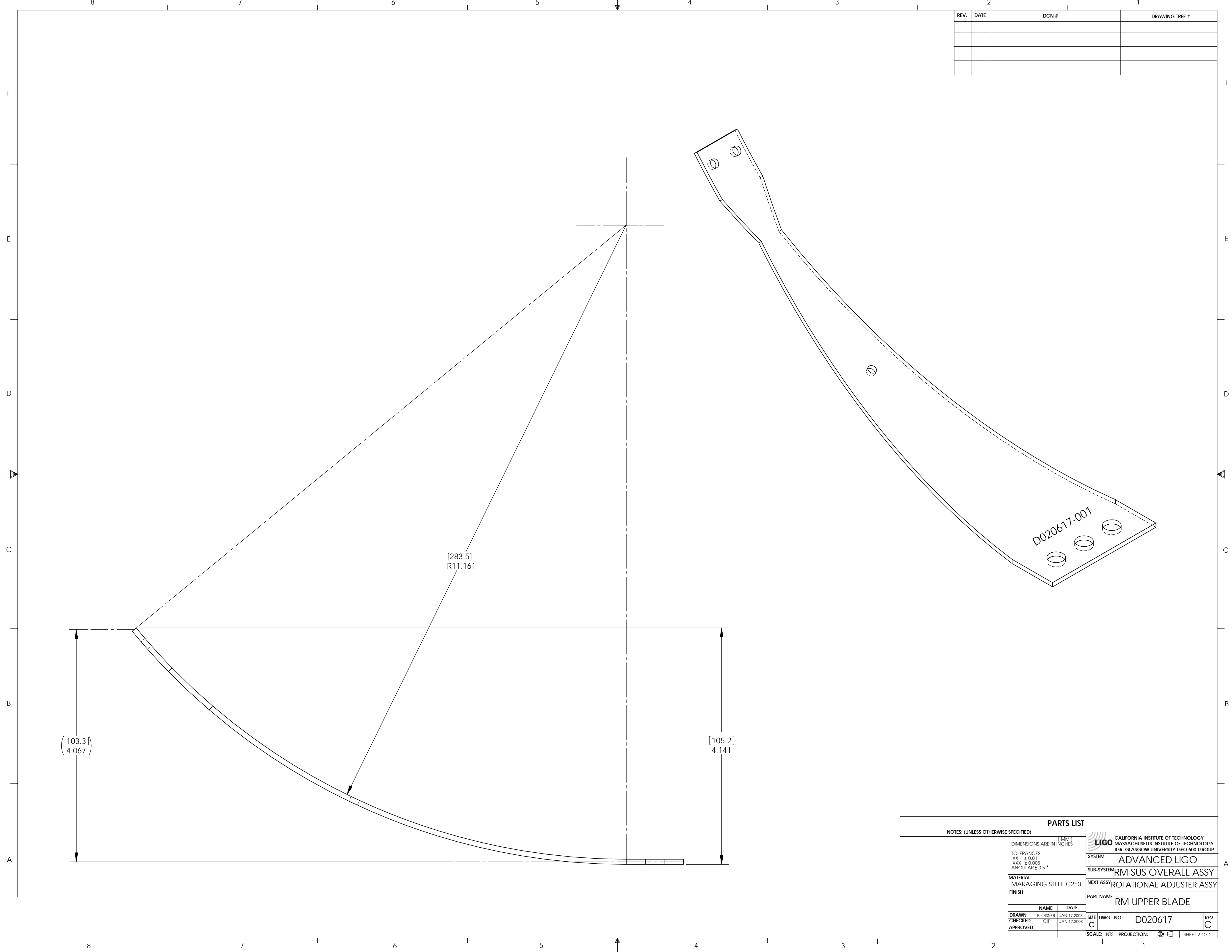
DWG. NO.
D020617

REV.
C

SCALE: NIS PROJECTION:

SHEET 1 OF 2

REV.	DATE	DCN #	DRAWING TREE #



PARTS LIST			
NOTES: (UNLESS OTHERWISE SPECIFIED)			
DIMENSIONS ARE IN [MM] INCHES		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY IGR, GLASGOW UNIVERSITY GEO 600 GROUP	
TOLERANCES: XX ± 0.01 XXX ± 0.005 ANGULAR ± 0.5 °		SYSTEM ADVANCED LIGO	
MATERIAL MARAGING STEEL C250		SUB-SYSTEM RM SUS OVERALL ASSY	
FINISH		NEXT ASSY ROTATIONAL ADJUSTER ASSY	
NAME DATE		PART NAME RM UPPER BLADE	
DRAWN B KIRSNER JAN 17, 2008	CHECKED CIT JAN 17, 2008	SIZE C	DWG. NO. D020617
APPROVED		SCALE: NIS	PROJECTION: SHEET 2 OF 2