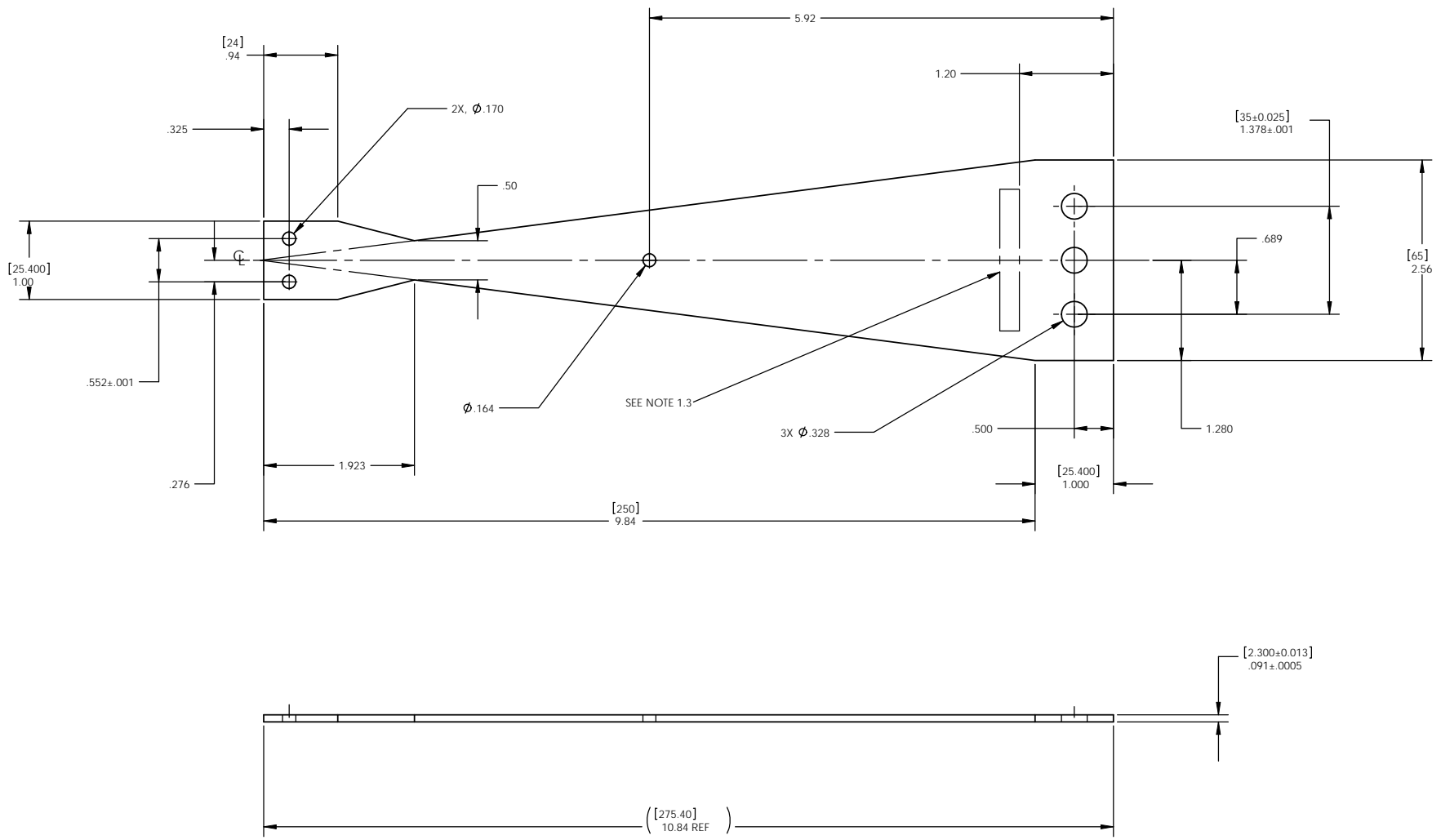


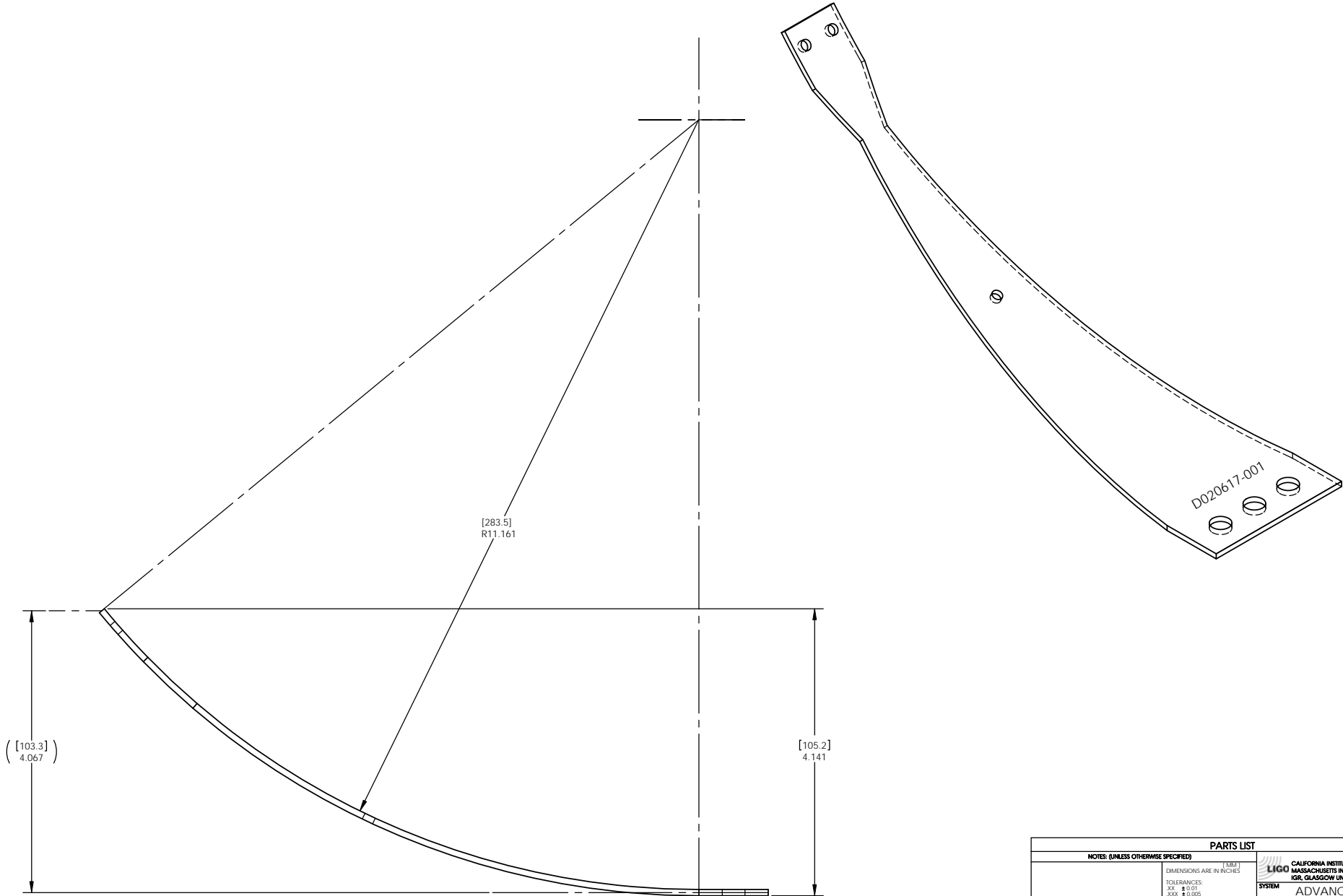
REV.	DATE	DCN #	DRAWING TREE #
0B	17 JAN 08	UPDATED PER LATEST COMPUTATIONS.	
A	1 FEB 08	RELEASED FOR RFO PER DCN E08D066	
B	17th Apr 08	E080169-00	
C	24th Apr 08	E080179-00	





NOTES: (UNLESS OTHERWISE SPECIFIED)		OTHER NOTES (FOR INTERNAL USE)		PARTS LIST	
1.1 REMOVE ALL SHARP EDGES, R.02 MIN.		2.1 SHAPE FACTOR UPPER BLADE	- 1.36	DIMENSIONS ARE IN [MM]	
1.2 ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SULFONIC SODIUM AS CIRCUMSTANCES ALLOW.		2.2 LOAD ON UPPER BLADE (FLAT)	- 18.215 kg	TOLERANCES	
1.3 ENGRAVE OR STAMP DRAWING PART AND THREE DIGIT SERIAL NUMBER ON NOTED SURFACE OF PART. SERIAL NUMBER STARTS AT 001 FOR THE FIRST PART AND PROCEEDS CONSECUTIVELY. USE 999 WHERE CHARACTERISTICS EXAMPLE: D020617-001. A VIBRATORY TOOL MAY BE USED.		2.3 PREDICTED UNCOUPLED FREQUENCY	- 2.70 Hz	XX ±.011	
1.4 SHEET 1 OF 2 SHOWS VIEWS PRIOR TO FORMING.		2.4 PREDICTED FIRST INTERNAL MODE	- 139 Hz	XXX ± 0.005	ANGULAR ± 0.5°
1.5 AFTER FORMING, HEAT TREAT AT 420°C FOR 100 HOURS.		2.5 MAXIMUM STRESS	- 780 MPa	MATERIAL	
1.6 SHEET 2 OF 2 HAS VIEWS SHOWING BLADE AFTER FORMING AND ANNEALING.		2.6 SOLIDWORKS RADIUS VALUE OVER WRITTEN WITH VALUE CALCULATED BY NAR.		MACHINING STEEL C250	
1.7 AS SHOWN IN SHEET 2 OF 2, THE RADIUS OF CURVATURE IS THE INTERNAL RADIUS.		2.7 IN SOLIDWORKS PART, BLADE MUST BE DRAWN SHEET METAL AND EXTRUDED VERTICALLY DOWNWARDS.		FINISH	
1.8 AS SHOWN, THE OVERALL DEFLECTION IS MEASURED FROM THE BOTTOM OF THE BASE POINT TO THE HIGHEST POINT ON THE TP OF THE BLADE.		2.8 IN SOLIDWORKS PART, RADIUS SHOULD BE ADJUSTED TO ATTAIN DESIRED LENGTH ON DRAWING SHEET.		DRAWN NAME DATE	
				8.000000 1 JAN 17 2008	
				APPROVED 1280.12.2008	
				NEXT ASSY	
				ROTATIONAL ADJUSTER ASSY	
				PART NAME	
				UPPER BLADE, HLTS	
				DRAWN NAME DATE	
				8.000000 1 JAN 17 2008	
				APPROVED 1280.12.2008	
				SCALE: NTS PROJECTION: 1st ANGLE SHEET 1 OF 2	

CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 IGR, GLASGOW UNIVERSITY GEO 600 GROUP
 SYSTEM: ADVANCED LIGO
 SUB-SYSTEM: SUS
 NEXT ASSY: ROTATIONAL ADJUSTER ASSY
 PART NAME: UPPER BLADE, HLTS
 DWG. NO.: D020617
 REV. C

REV.	DATE	DCN #	DRAWING TREE #



NOTES: (UNLESS OTHERWISE SPECIFIED)		PARTS LIST	
DIMENSIONS ARE IN 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: MACHINING STEEL C250		SUB-SYSTEM: SUS	
FINISH:		NEXT ASSY: ROTATIONAL ADJUSTER ASSY	
DRAWN: [Signature]		PART NAME: UPPER BLADE, HLTS	
CHECKED: [Signature]		SIZE: C	DWG. NO.: D020617
APPROVED: [Signature]		SCALE: NTS	PROJECTION: 
		SHEET 2 OF 2	