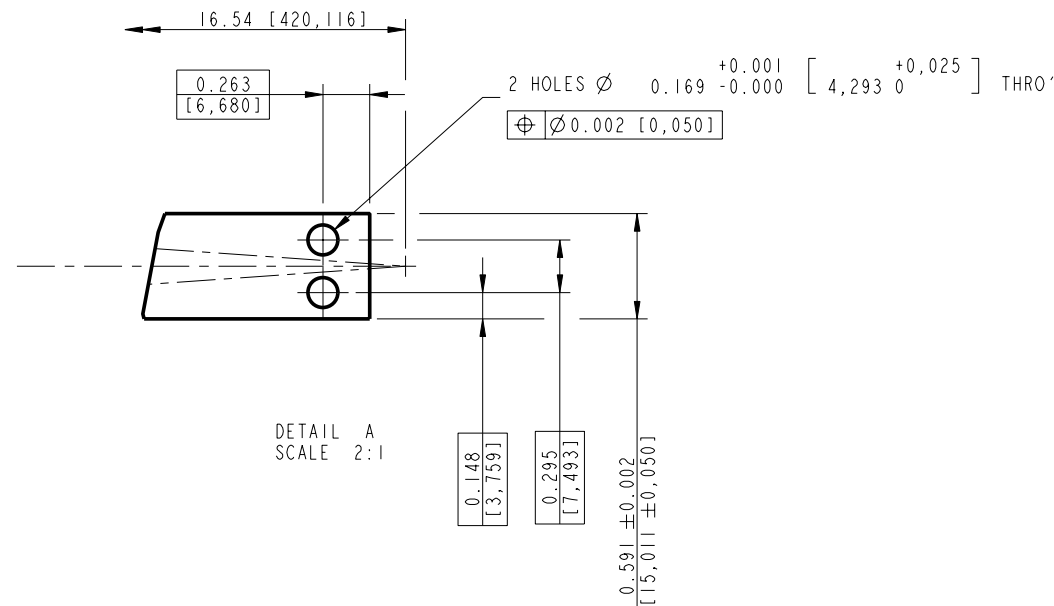
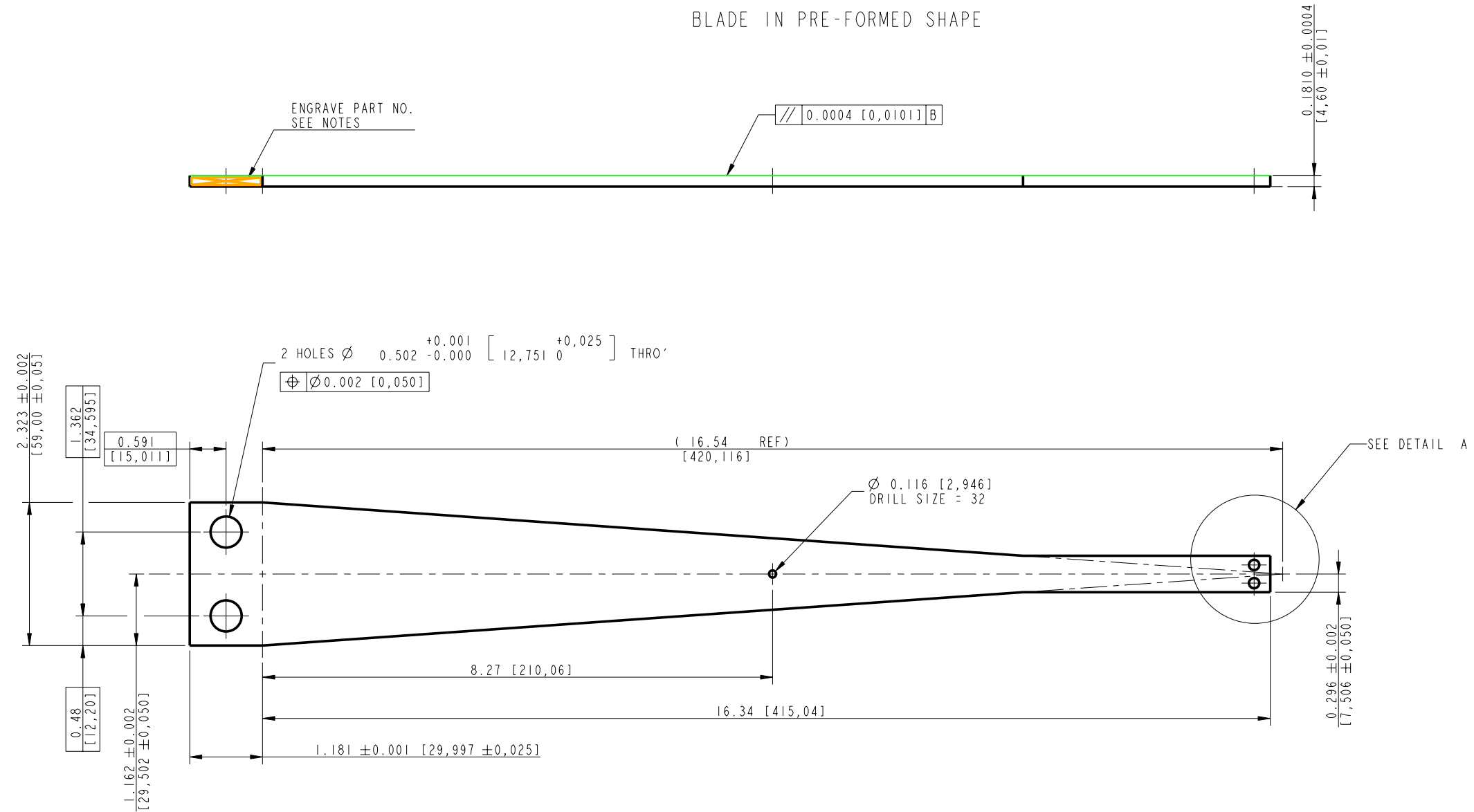


BLADE IN PRE-FORMED SHAPE



NOTES

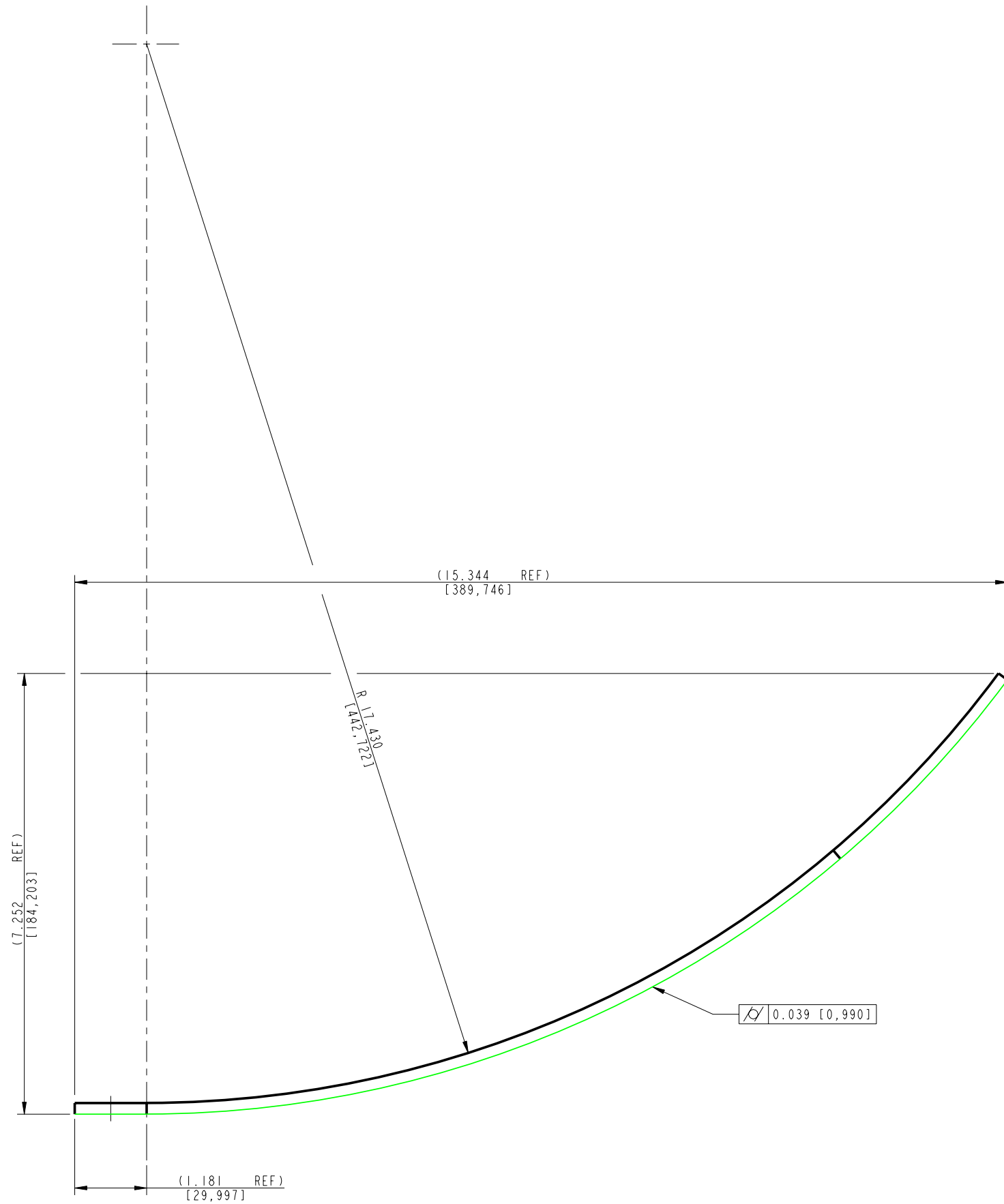
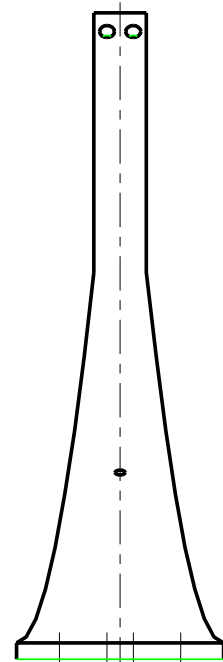
1. INTERPRET DIMENSIONS PER: ANSI Y14.5 1982
2. AFTER FORMING HEAT TREAT AT 435°C FOR 100 HOURS AND AIR COOL
3. DURING HEAT TREATMENT THE PART MUST BE SUPPORTED SO THAT IT DOES NOT CHANGE RADIUS DUE TO SELF WEIGHT

NOTES: (UNLESS OTHERWISE SPECIFIED)		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY FOR: GLASGOW UNIVERSITY UED 400 GROUP HITHEROFT APLETON LABORATORIES	
1. REMOVE ALL SHARP EDGES. R.02 MIN.	2. DO NOT SCALE FROM DRAWING.	DIMENSIONS ARE IN INCHES (mm)	TOLERANCES:
3. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SODIUM, CHROMIUM AND SILICONE, SUCH AS CINCINNATI MILACRON'S CINTEC 410 (STAINLESS STEEL)	4. SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON MATED 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: 001001 - A VIBRATORY TOOL MAY BE USED.	X .XX $\pm 0.01$ (0.250 mm) X .XX $\pm 0.005$ ANGULAR $\pm 0.250$ °	MATERIAL: MARAGING STEEL 250
FINISH: CLEAN AND DEGREASE $\sigma_{max}$ (um) Ra = 32 (0.8)		NAME: _____	DATE: _____
DRAWN: J. WILNET 1/17/04		PART NAME: UPPER MASS	
CHECKED: _____		SUB-SYSTEM: SJS	
APPROVED: _____		PART NAME: MIDDLE BLADE SPRING	
SCALE: 1:1 PROJECTION:		Dwg. NO. D040297	
		SHEET 1 OF 2	

INTERNAL NAME: TD-1039-980

FOR INTERNAL USE ONLY:

E=186Mpa  
 ALPHA=1.35  
 TOTAL SUSP MASS = 50 KG  
 UI MASS = 11 KG  
 PREDICTED:  
 F = 2.48Hz  
 1st INTERNAL MODE = 98.17Hz  
 $\sigma$  MAX = 990Mpa  
 REF: COMMUNICATION WITH BLADE COMMITTEE



NOTES: (UNLESS OTHERWISE SPECIFIED):		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY FRIEDBERG APPLIED OPTICS LABORATORIES	
1. REMOVE ALL SHARP EDGES. R. 0.02 MIN.	DIMENSIONS ARE IN INCHES (mm)	SYSTEM <b>ADVANCED LIGO</b>	
2. DO NOT SCALE FROM DRAWING.	TOLERANCES:	SUB-SYSTEM <b>SUS</b>	
3. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SODIUM, CHROMIUM AND SILICONE, SUCH AS CINCINNATI MILACRON'S CINTREX 410 (STAINLESS STEEL).	X .XX ±0.01 (0.250 mm) X .XX ±0.005 ANGULAR ±0.250 °	NEXT ASSY <b>UPPER MASS</b>	
4. SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON MATED 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: 001001 - A VIBRATORY TOOL MAY BE USED.	MATERIAL: MARAGING STEEL 250	PART NAME <b>MIDDLE BLADE SPRING</b>	
	FINISH: CLEAN AND DEGREASED Ra = 32 (0.8)	ORG. NO. <b>04</b>	
	DATE	Dwg. NO. <b>D040297</b>	
	NAME	SCALE 1:1 PROJECTION:	
	CHECKED	SHEET 2 OF 2	
	APPROVED		