NOTES CONTINUED:

5. SCRIBE, ENGRAVE (A VIBRATORY TOOL MAY BE USED), LASER MARK OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. EXAMPLE: DXXXXXXX-VY, TYPE-XX, S/N XXX

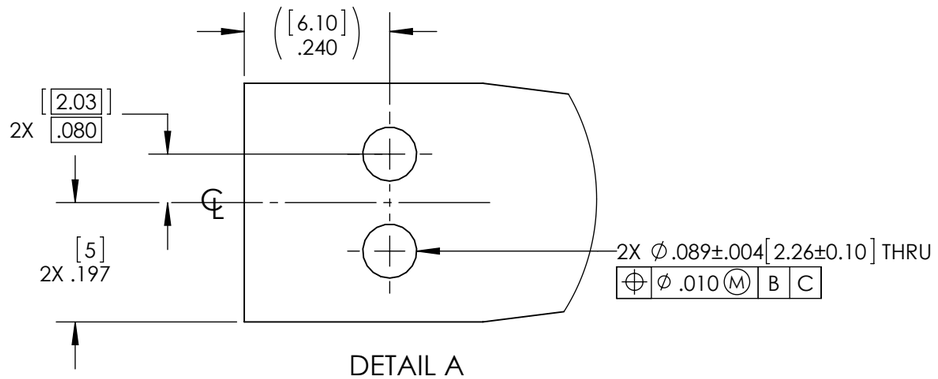
6. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364 AND E0900023. E0900023 TAKES PRECEDENCE

7. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NO WELD REPAIRS, PLUGS OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. REFER TO LIGO-E0900364.

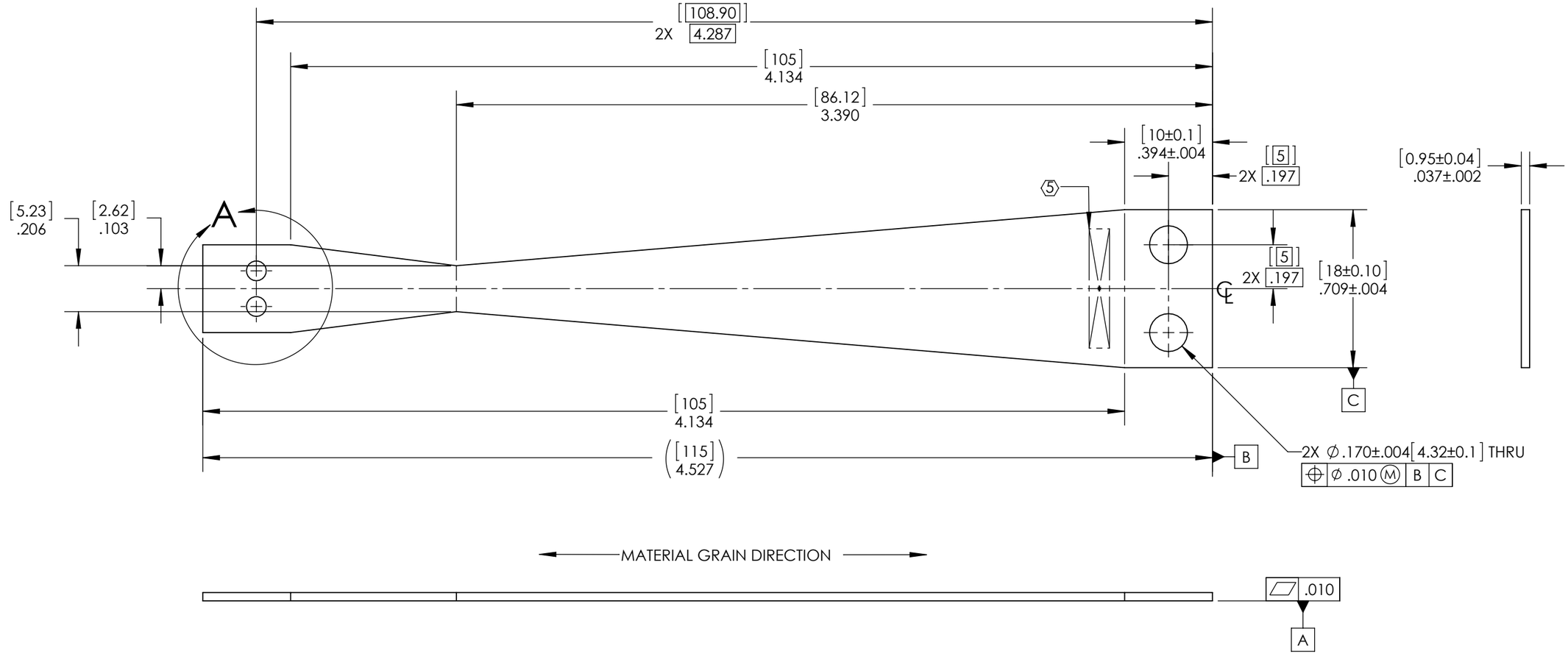
8. FABRICATE, HEAT TREAT, AND PLATE IN ACCORDANCE WITH aLIGO SPECIFICATIONS E0900023.

REV.	DATE	DCN #	DRAWING TREE #
v1	03 NOV 2014	E1400435-x0	-
-	-	-	-
-	-	-	-

VIEWS PRIOR TO FORMING



DETAIL A
SCALE 4 : 1



MATERIAL GRAIN DIRECTION

INTERNAL LIGO NOTES:

1. BLADE DESIGN CALCULATIONS: REFER TO LIGO T1000352-v3
2. REFER TO LIGO T1400290 FOR DETAILS ON IMPROVED VERTICAL ISOLATION DESIGN.

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:
.XX ± .01
.XXX ± .005

ANGULAR ± 0.5°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES. .005-.015. FOR MACHINED PARTS
3. DO NOT SCALE FROM DRAWING.
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL: MARAGING STEEL C250
FINISH: 32 µinch

LIGO — CALIFORNIA INSTITUTE OF TECHNOLOGY, MASSACHUSETTS INSTITUTE OF TECHNOLOGY

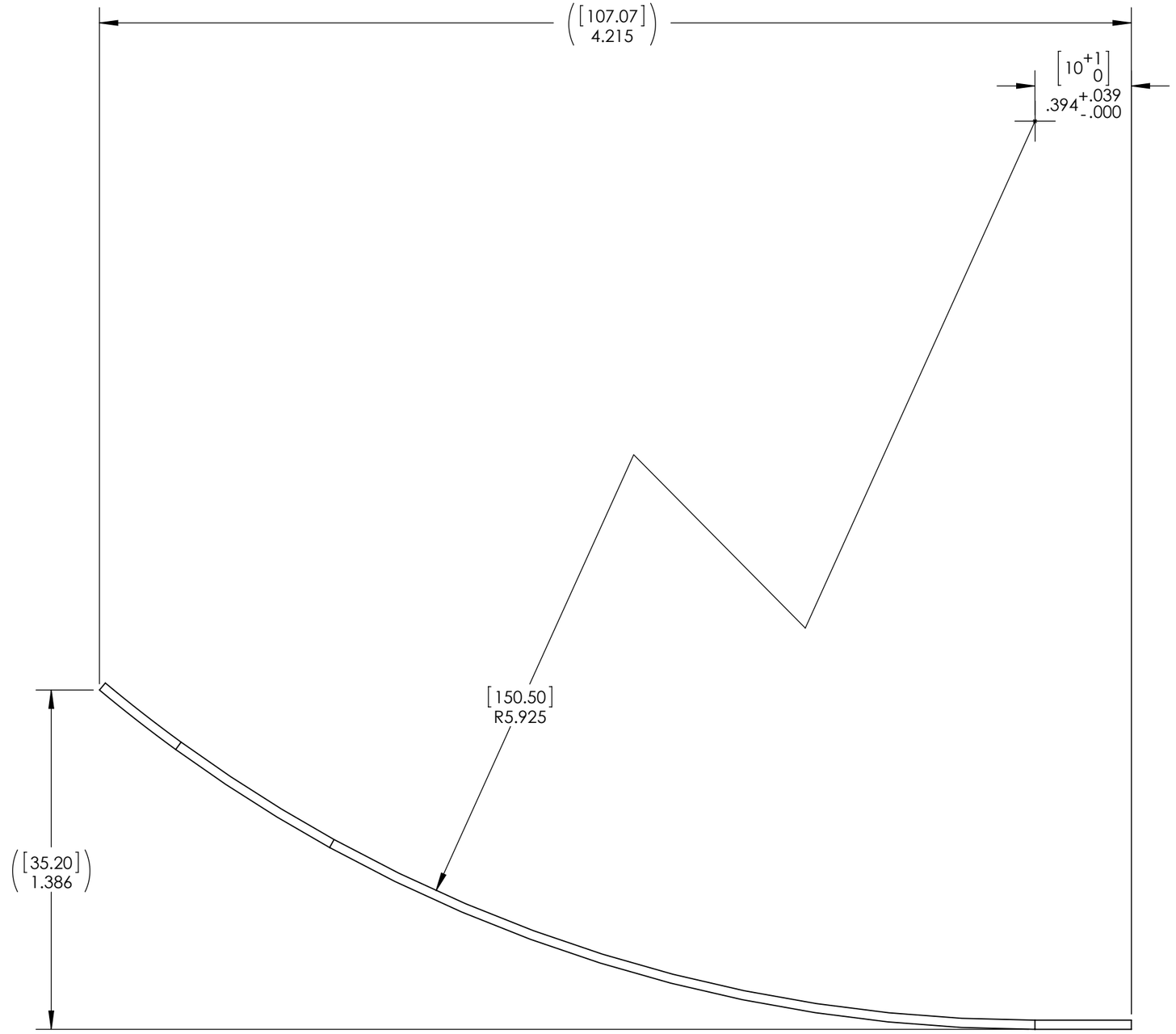
SYSTEM: ADVANCED LIGO
SUB-SYSTEM: SUS
NEXT ASSY: D1400253

PART NAME: aLIGO, SUS, HSTS, MIDDLE MASS BLADE

DESIGNER	H.MILLER	08 JUL 2014	
DRAFTER	E.SANCHEZ	03 NOV 2014	
CHECKER	SEE DCC	SEE DCC	
APPROVAL	SEE DCC	SEE DCC	

SIZE: B — DWG. NO.: D1400220 — REV.: v1
SCALE: 2:1 — PROJECTION: — SHEET 1 OF 2

D1400220 aLIGO, HSTS, MIDDLE MASS BLADE, PART PDM REV: X-002, DRAWING PDM REV: X-001



FORMED BLADE SPRING

LIGO	CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE B	DWG. NO. D1400220	REV. v1
SCALE: 2:1	PROJECTION:	SHEET 2 OF 2

D1400220 aLIGO, HSTS, MIDDLE MASS BLADE, PART PDM REV: X-002, DRAWING PDM REV: X-001