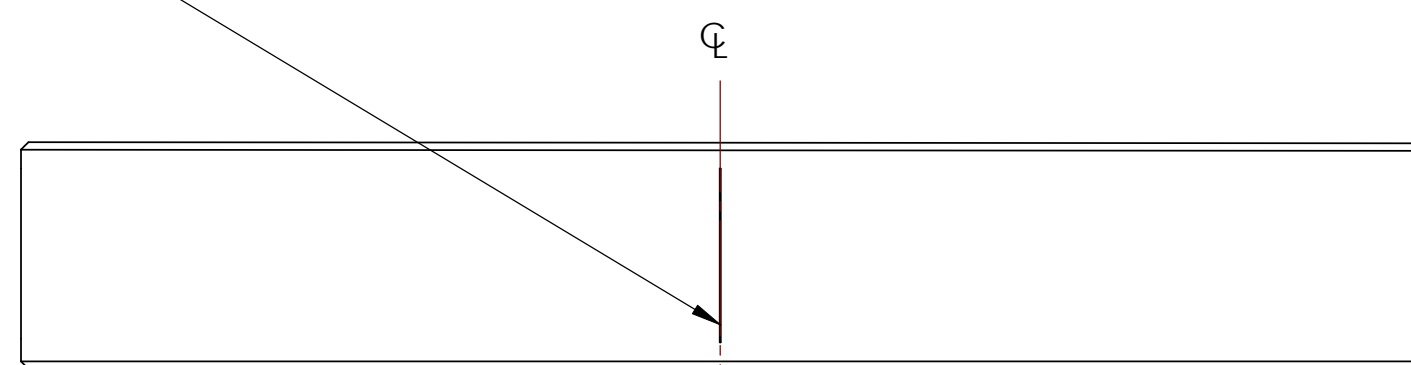


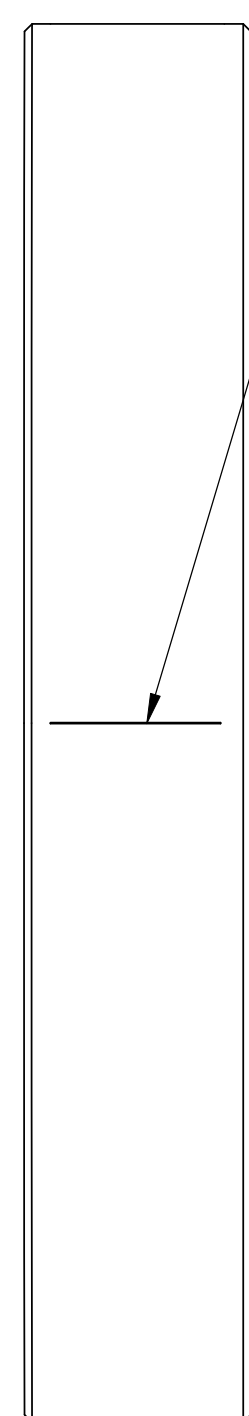
REV.	DATE	DCN #	DRAWING TREE #
v1	11th Nov 2008	E08030-v1	
V2	2-20-09	LIGO-E0900046-V1	

ETCH OR GRIND REGISTRATION MARKS  
 0.25mm ± 0.05mm WIDE x  
 45mm ± 3mm LONG MINIMUM LEGIBLE  
 DEPTH LINE ALONG  $\phi$ , CENTERED  
 BETWEEN SURFACES 'S1' AND 'S2', PARALLEL  
 TO THE CYLINDRICAL AXIS  
 (DEFINED BY DATUM FEATURE -A-)  
 WITHIN ±0.1mm AND  
 90° FROM SCRIBE LINE AT LOCATION OF  
 MINIMUM PART THICKNESS.



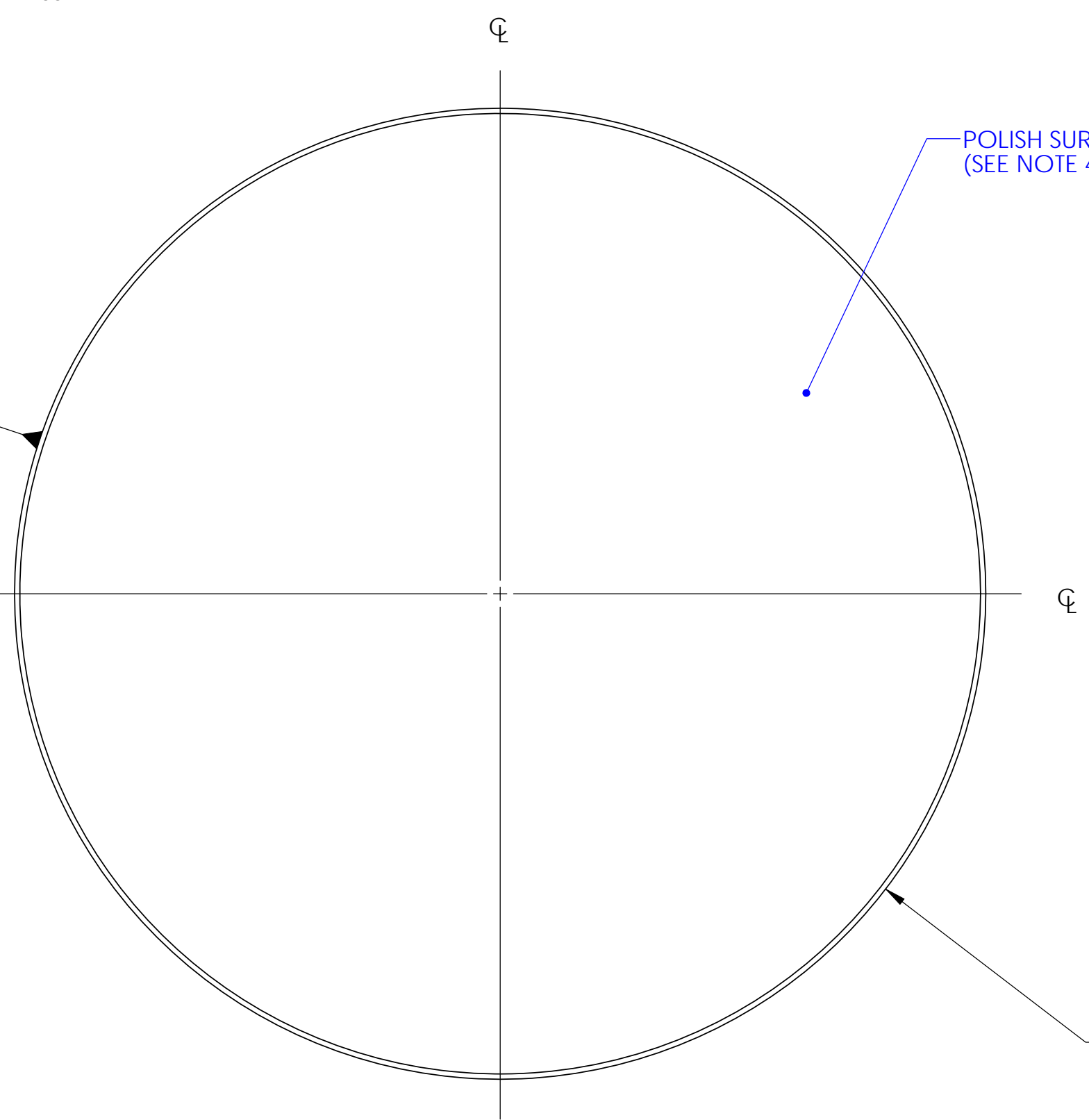
TOP VIEW

ETCH OR GRIND REGISTRATION MARKS  
 0.25mm ± 0.05mm WIDE x  
 45mm ± 3mm LONG MINIMUM LEGIBLE  
 DEPTH LINE ALONG  $\phi$ , CENTERED  
 BETWEEN SURFACES 'S1' AND 'S2', PARALLEL  
 TO THE CYLINDRICAL AXIS  
 (DEFINED BY DATUM FEATURE -A-)  
 WITHIN ±0.1mm AND  
 180° FROM SCRIBE LINE AT LOCATION OF  
 MINIMUM PART THICKNESS.



S1

A

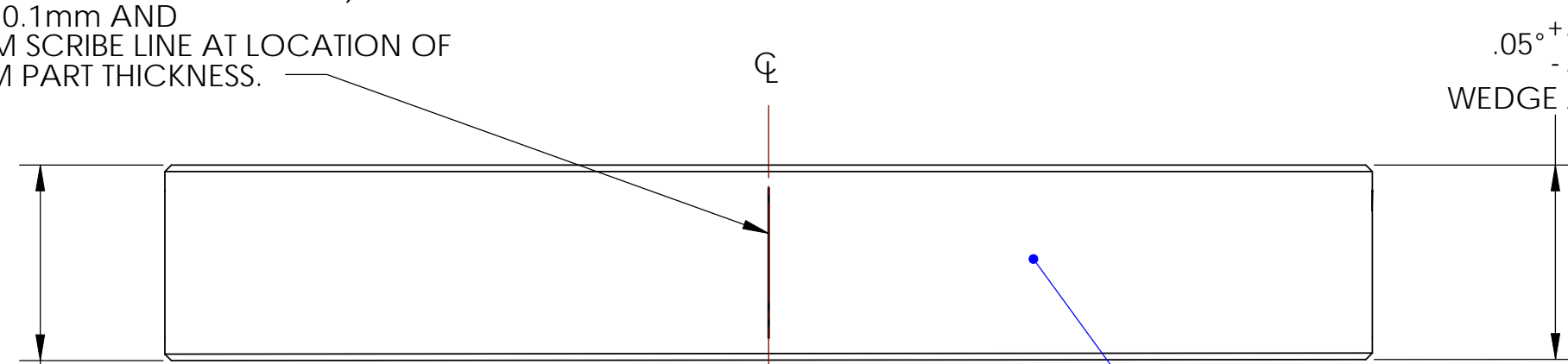


POLISH SURFACE 'S1'  
 (SEE NOTE 4)

$\phi 370.00 \pm 0.25$   

$\sigma$	0.1
$\mu$	0.1 B

ETCH OR GRIND REGISTRATION MARKS  
 0.25mm ± 0.05mm WIDE x  
 45mm ± 3mm LONG MINIMUM LEGIBLE  
 DEPTH LINE ALONG  $\phi$ , CENTERED  
 BETWEEN SURFACES 'S1' AND 'S2', PARALLEL  
 TO THE CYLINDRICAL AXIS  
 (DEFINED BY DATUM FEATURE -A-)  
 WITHIN ±0.1mm AND  
 90° FROM SCRIBE LINE AT LOCATION OF  
 MINIMUM PART THICKNESS.



$.05^{+0.03}$   
 $-.00^{\circ}$   
 WEDGE ANGLE

BOTTOM VIEW

60.0 ± 0.5

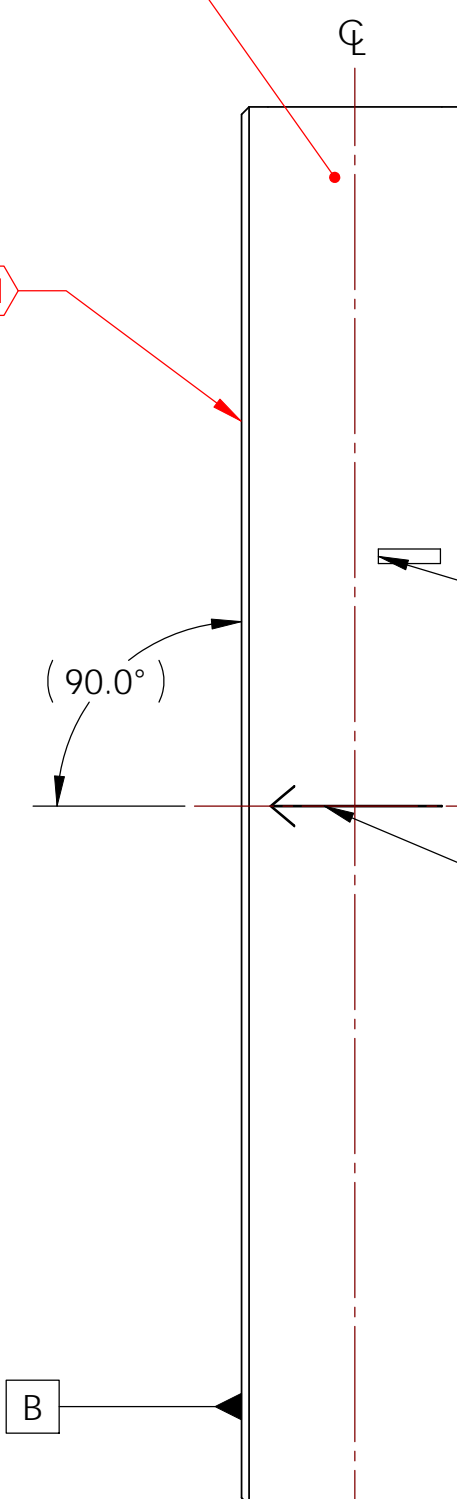
BARREL SIDE AND BEVEL POLISH  
 (SEE NOTE 3)

S3

S1

(90.0°)

B

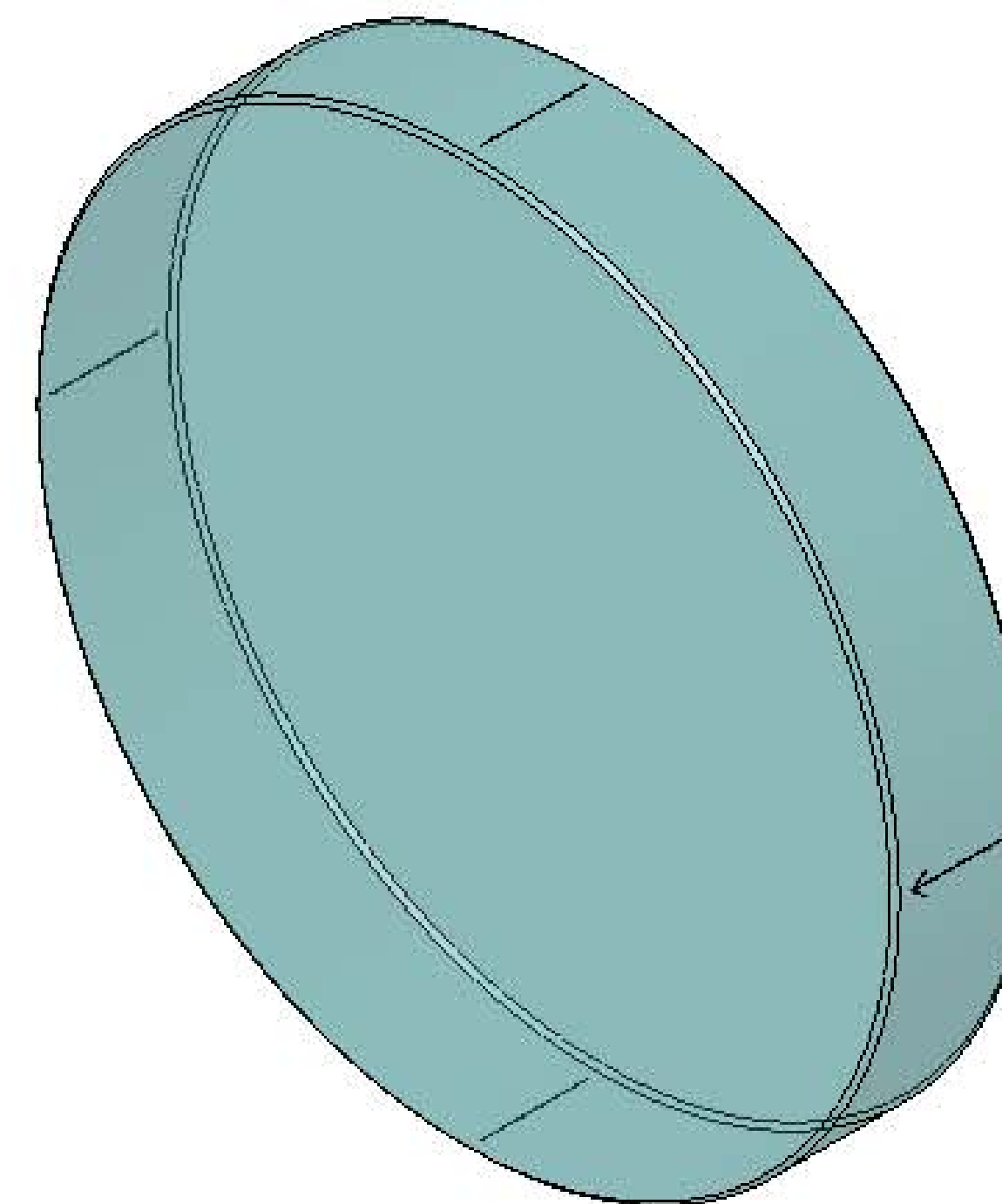


S2  
 POLISH SURFACE 'S2'  
 (SEE NOTE 4)

ETCH OR GRIND SERIAL NUMBER, APPROX. WHERE SHOWN,  
 LETTERING APPROX. 4mm HIGH SEE NOTE 5 FOR MORE DETAILS.

ETCH OR GRIND REGISTRATION MARKS  
 0.25mm ± 0.05mm WIDE x 45mm ± 3mm LONG  
 MINIMUM LEGIBLE DEPTH LINE ALONG  $\phi$ , CENTERED  
 BETWEEN SURFACES 'S1' AND 'S2' AT  
 LOCATION OF MINIMUM PART THICKNESS WITHIN  
 ± 5° CLOCKING ANGLE  
 (WITH RESPECT TO DATUM FEATURE -A-),  
 AND PARALLEL TO THE CYLINDRICAL AXIS  
 (DEFINED BY DATUM FEATURE -A-)  
 WITHIN ±0.1mm, WITH ARROW POINTING  
 TO SURFACE 'S1'.

2X, 2.0 ± 0.2 x 45° ± 5° CHAMFER,  
 ALL AROUND



MANUFACTURING NOTES:	
1. DO NOT SCALE FROM DRAWING.	
2. INTERPRET DRAWING AS PER ANSI Y14.5M 1994.	
3. BARREL SIDE AND BEVEL POLISH PER E080514-v2.	
4. FINISH SURFACES 'S1' AND 'S2' AS PER E080514-v2.	
5. REFER TO E080514-v2 FOR MORE INFORMATION ON SERIAL NUMBER.	

PARTS LIST	
NOTES: (UNLESS OTHERWISE SPECIFIED)	CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY
DIMENSIONS ARE IN MILLIMETERS (mm)	
TOLERANCES	
X ± 0.1 XX ± 0.05 ANGULAR ± 0.1°	
MATERIAL	SYSTEM ADVANCED LIGO SUB-SYSTEM COC NEXT ASSY BEAM SPLITTER (BS)
REF E080035-v1	PART NAME (BS) SUBSTRATE
FINISH SEE NOTES	
DRAWN NAME DATE	SIZE DWG. NO. REV.
CHECKED NAME DATE	D 080660 v2
CHECKED NAME DATE	
APPROVED NAME DATE	SCALE: 1:2 PROJECTION: SHEET 1 OF 1