

NOTES: UNLESS OTHERWISE SPECIFIED

1. [-OA1-] IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.
2. [-OA2-] IS THE THEORETICAL OPTIC AXIS OF THE SECOND OPTIC SURFACE.
3. ASPHERIC SURFACES ARE DEFINED BY:

$$z(r) = \frac{r^2/R_c}{1 + \sqrt{1 - (1 + K)(r/R_c)^2}} + \sum_i A_{2i}r^{2i}$$

WHERE: Y= RADIAL DISTANCE FROM VERTEX IN mm

4. SURFACE DEFINITIONS:

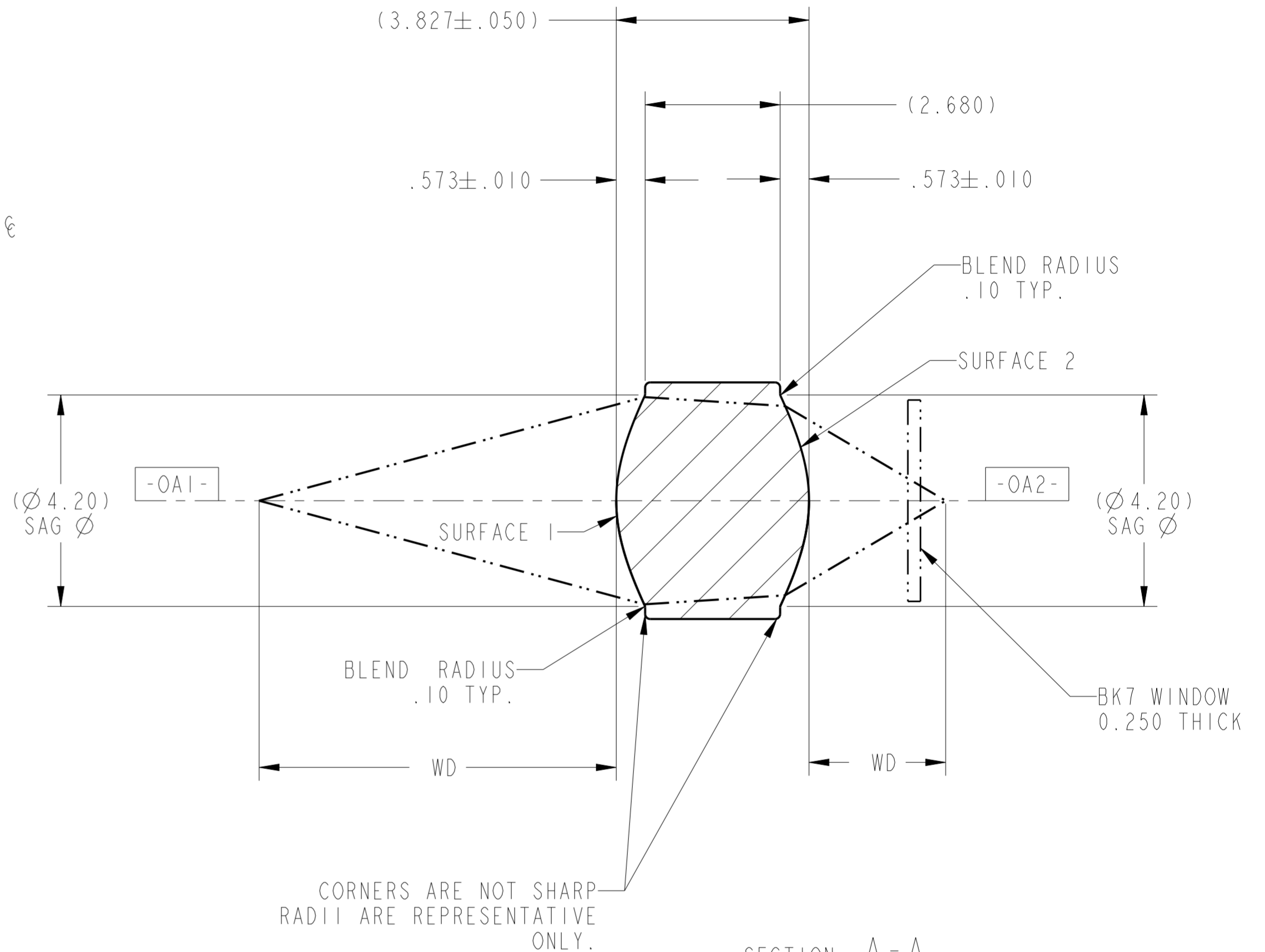
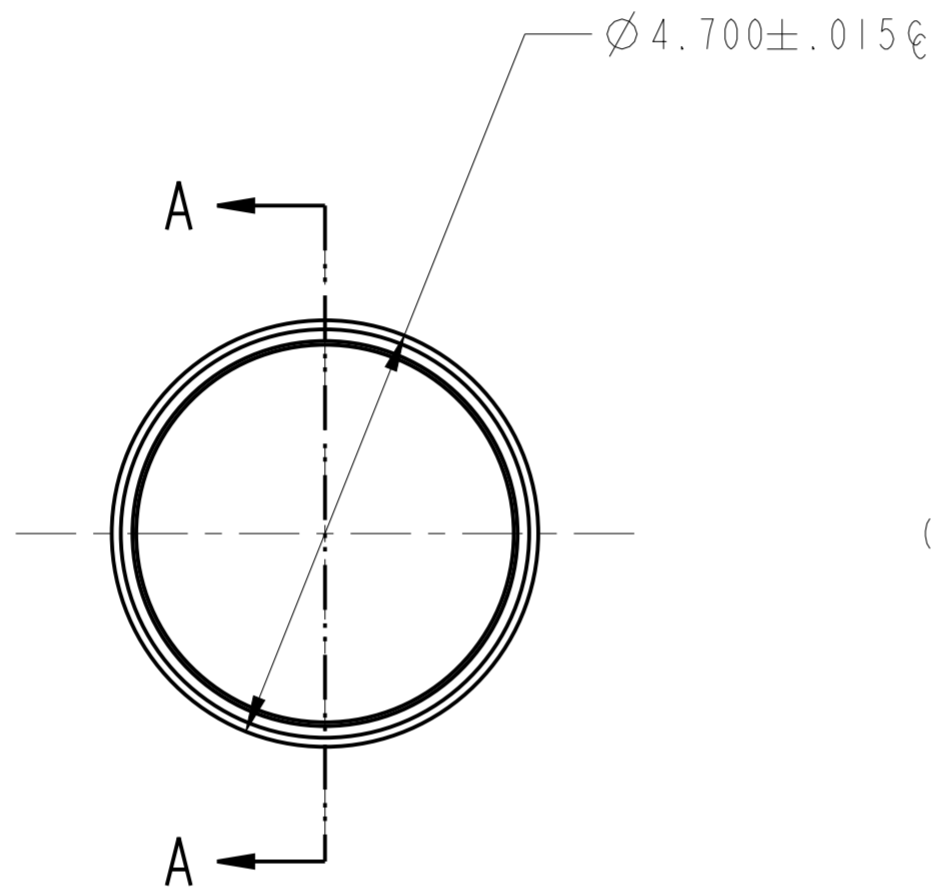
	SURFACE 1	SURFACE 2
TYPE	ASPHERE	ASPHERE
SHAPE	CX	CX
CA	Ø 4.12	Ø 3.76
R _C	3.200655	-3.200655
K	-4.321649	-4.321649
A ₂	0.000000E0	0.000000E0
A ₄	5.521153E-3	-5.521153E-3
A ₆	-1.981378E-3	1.981378E-3
A ₈	4.782553E-4	-4.782553E-4
A ₁₀	-7.328134E-5	7.328134E-5
A ₁₂	5.920460E-6	-5.920460E-6
A ₁₄	-9.104334E-8	9.104334E-8
A ₁₆	-1.291935E-8	1.291935E-8

5. NOMINAL DESIGN PARAMETERS.

DESIGN WAVELENGTH	980 nm
W.D.	7.1/2.7 mm
N.A.	0.5/0.3
E.F.L.	2.8mm ± 1.0%

6. FEATURES IDENTIFIED AS Ⓢ ARE CRITICAL CHARACTERISTICS. CRITICAL CHARACTERISTICS ARE GUARANTEED IN PRODUCTION.
7. THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR APERTURES INDICATED, BOTH SIDES, PER LIGHTPATH PWI INS-8.2-05P6.Ⓢ -00: S/D: 40/20
8. THIS ELEMENT IS USED AS A COLLIMATING LENS. WAVEFRONT ERROR: @ 100% APERTURE < 0.200 WAVES RMS @ 632.8nm; @ 50% APERTURE < 0.270 WAVES P-V PER LIGHTPATH PWI INS-8.2-03.Ⓢ

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	2254	INITIAL RELEASE	11/18/09	ASYMMONS
B	2542	UPDATE PREFORM PART NUMBER	11/04/10	BAUZ
C	3476	S2 CA WAS 3.76; REMOVE PREFORM CALLOUT	05/02/13	JL
D	4385	UPDATED FORMAT	12/21/15	PL



CORNERS ARE NOT SHARP
RADIi ARE REPRESENTATIVE
ONLY.

SECTION A-A

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM. DECIMAL TOLERANCES ARE: .X ± 0.25 .XX ± 0.10 .XXX ± 0.025 .XXXX ± 0.013 ANGLES: ± 0.5°		LightPath <small>TECHNOLOGIES</small> 2603 CHALLENGER TECH CT., SUITE 100 ORLANDO, FL 32826		PROPRIETARY INFORMATION THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF LIGHTPATH TECHNOLOGIES AND IS NOT TO BE DISCLOSED OR REPRODUCED IN WHOLE OR PART, OR USED FOR MANUFACTURING FOR ANYONE OTHER THAN LIGHTPATH TECHNOLOGIES WITHOUT ITS WRITTEN CONSENT. NO RIGHT IS GRANTED TO DISCLOSE OR USE ANY INFORMATION CONTAINED IN SAID DOCUMENT.	
DRAW ASYMMONS\ORL		TITLE LENS CODE 355440			
MATERIAL D-ZLAF52LA(m)	SIZE A2	DWG NO 0355440	REV D		
SOFTWARE Pro/ENGINEER	SCALE: 12.00	THIRD ANGLE PROJECTION	SHEET 1 OF 1		