

NOTES: UNLESS OTHERWISE SPECIFIED

- OAI- IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.
- 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

3. SURFACE DEFINITIONS:

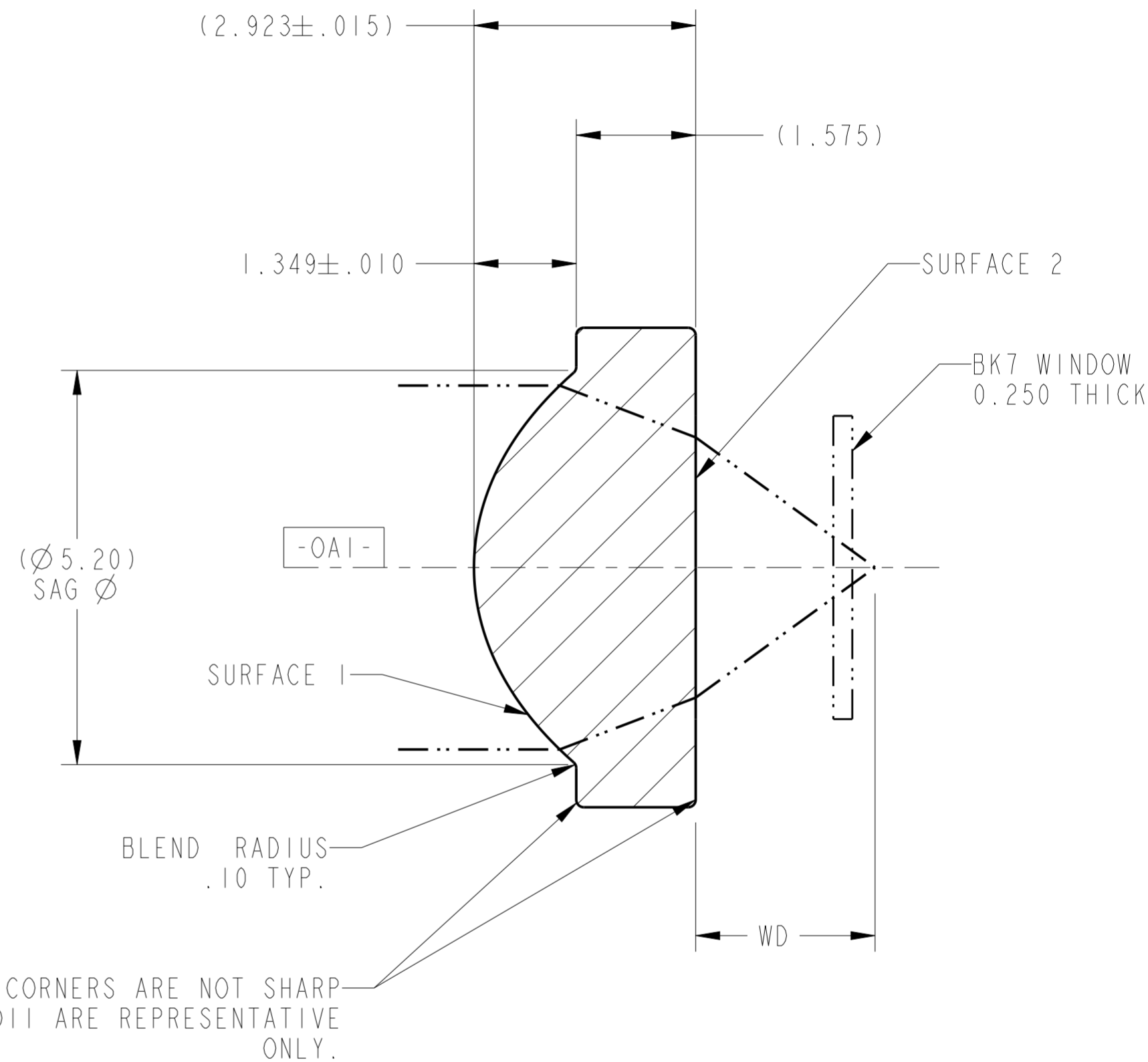
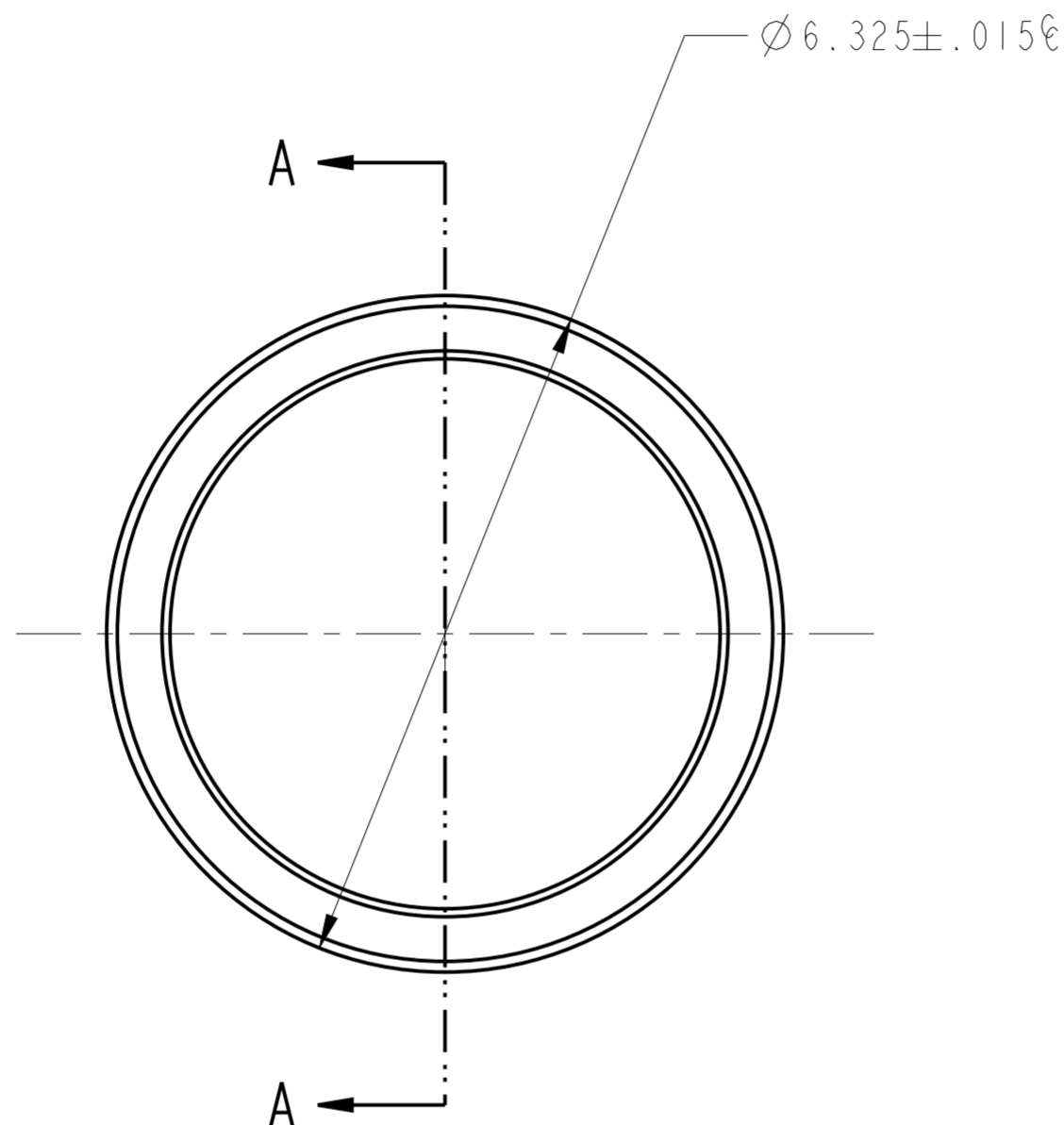
	SURFACE 1	SURFACE 2
TYPE	ASPHERE	PLANO
SHAPE	CX	PL
CA	∅4.80	∅3.43
R _C	2.794980	PLANO
K	-0.909456	0.000000
A ₂	0.000000E0	0.000000E0
A ₄	2.247574E-3	0.000000E0
A ₆	4.741353E-5	0.000000E0
A ₈	-1.992151E-7	0.000000E0
A ₁₀	-1.247814E-7	0.000000E0
A ₁₂	-6.147058E-9	0.000000E0
A ₁₄	0.000000E0	0.000000E0
A ₁₆	0.000000E0	0.000000E0

4. NOMINAL DESIGN PARAMETERS.

DESIGN WAVELENGTH	488 nm
W.D.	2.4 mm
N.A.	0.6
E.F.L.	4.0mm ± 1.0%

- FEATURES IDENTIFIED AS Ⓢ ARE CRITICAL CHARACTERISTICS. CRITICAL CHARACTERISTICS ARE GUARANTEED IN PRODUCTION.
- 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: 20/10
- THIS ELEMENT IS USED AS A COLLIMATING LENS. WAVEFRONT ERROR: @ 50% APERTURE < 0.250 WAVES P-V @ 632.8nm; @100% APERTURE 1.94 TO 2.94 WAVES SA PER LIGHTPATH PWI INS-8.2-03.Ⓢ LENS TESTED WITHOUT WINDOW.

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	2226	INITIAL RELEASE	05/14/10	ASYMMONS
B	2480	NOTE 2, PREFORM WAS 0261957	09/20/10	ASYMMONS
C	3655	NOTE 7: REMOVED WITH WINDOW WAVEFRONT SPECS	12/11/13	DS
D	4391	UPDATED FORMAT	12/29/15	PL
E	4896	ADD 100% APERT TO WFE SA	03/07/17	JL



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 357765			
MATERIAL D-LAK6(m)	SIZE A2	DWG NO 0357765	REV E		
SOFTWARE Pro/ENGINEER	SCALE: 15.00	THIRD ANGLE PROJECTION	SHEET 1 OF 1		