

NOTES: UNLESS OTHERWISE SPECIFIED

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

2. 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	$\emptyset 5.00$	$\emptyset 3.79$
R_C	2.451565	PLANO
K	-0.920525	0.000000
A_2	0.000000E0	0.000000E0
A_4	3.290877E-3	0.000000E0
A_6	5.062022E-5	0.000000E0
A_8	-7.972913E-6	0.000000E0
A_{10}	-4.155454E-8	0.000000E0
A_{12}	-2.029625E-7	0.000000E0
A_{14}	2.137014E-8	0.000000E0
A_{16}	-5.273422E-10	0.000000E0

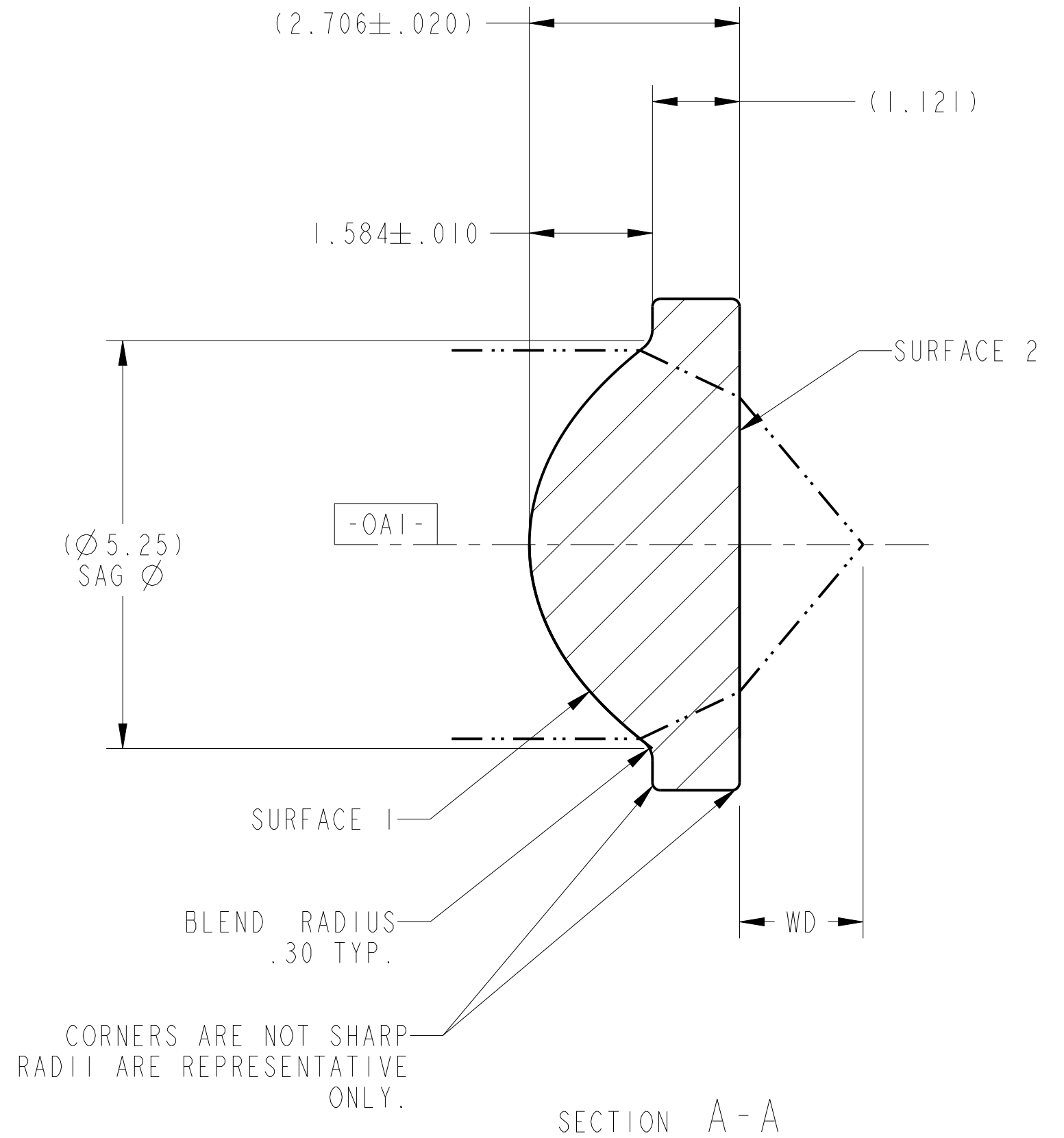
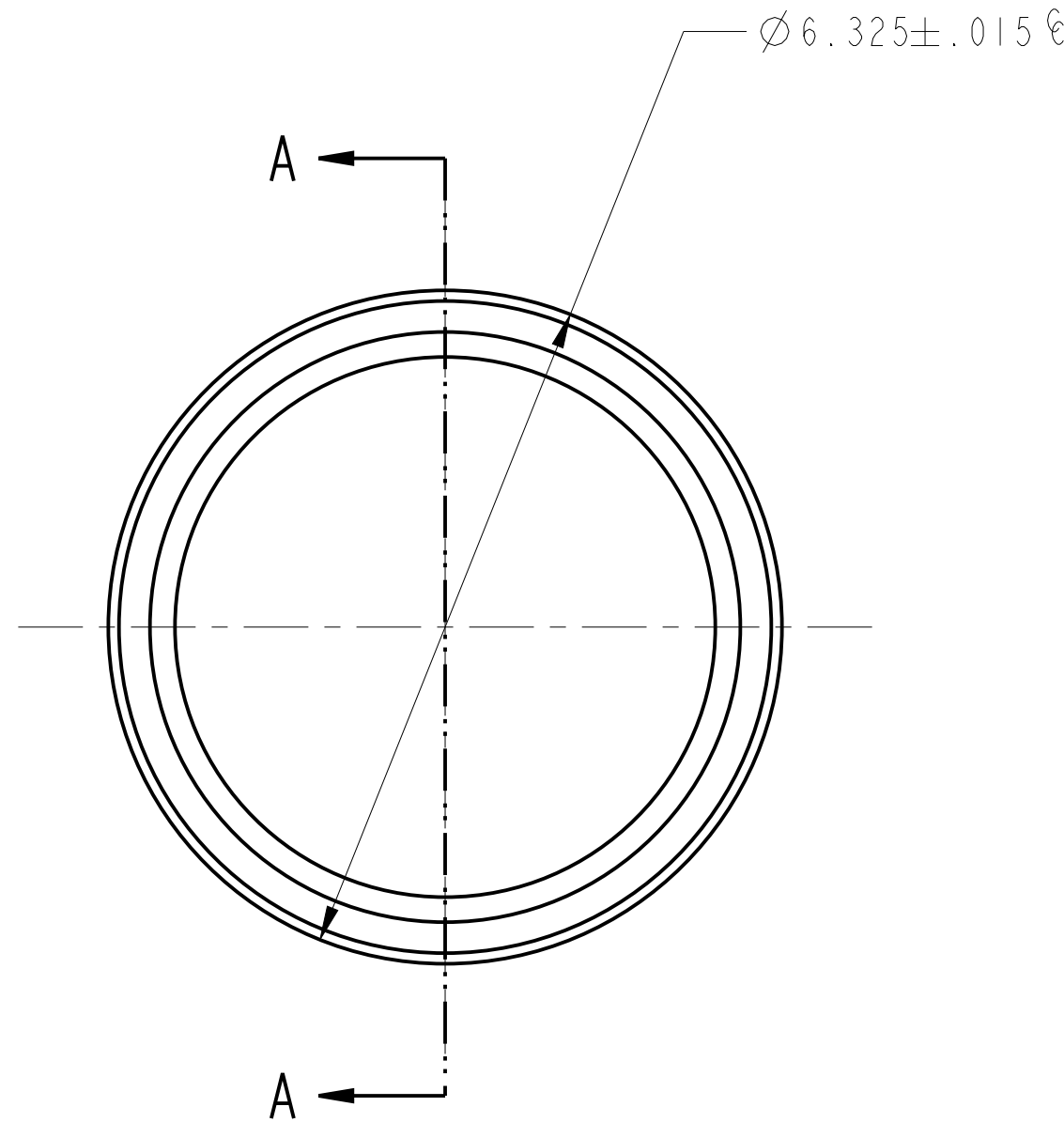
- #### 4. NOMINAL DESIGN PARAMETERS.

DESIGN WAVELENGTH	830 nm
W.D.	1.6 mm
N.A.	0.8
E.F.L.	3.1mm $\pm$ 1.0%

5. FEATURES IDENTIFIED AS C ARE CRITICAL CHARACTERISTICS.
CRITICAL CHARACTERISTICS ARE GUARANTEED IN PRODUCTION.

6. THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR APERTURES INDICATED, BOTH SIDES, PER LIGHTPATH PWI INS-8.2-05P6.6
-00: S/D: 40/20

7. THIS ELEMENT IS USED AS A COLLIMATING LENS.
WAVEFRONT ERROR: @ 100% APERTURE < 0.50 WAVES RMS @ 632.8nm;
PER LIGHTPATH PWI INS-8.2-13.6



REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	2204	INITIAL RELEASE	07/25/2009	ASYMMONS
B	4384	UPDATED FORMAT	12/21/15	PL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM. DECIMAL TOLERANCES ARE: $.X \pm 0.25$ $.XX \pm 0.10$ $.XXX \pm 0.025$ $.XXXX \pm 0.013$ ANGLES: $\pm 0.5^\circ$		 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.	
DRAWN ASYMMONS\ORL		TITLE LENS CODE 355330			
MATERIAL D-ZLAF52LA(m)		SIZE A2	DWG NO 0355330		REV B
SOFTWARE Pro/ENGINEER		SCALE: 15.00	THIRD ANGLE PROJECTION 		SHEET 1 OF 1