

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:

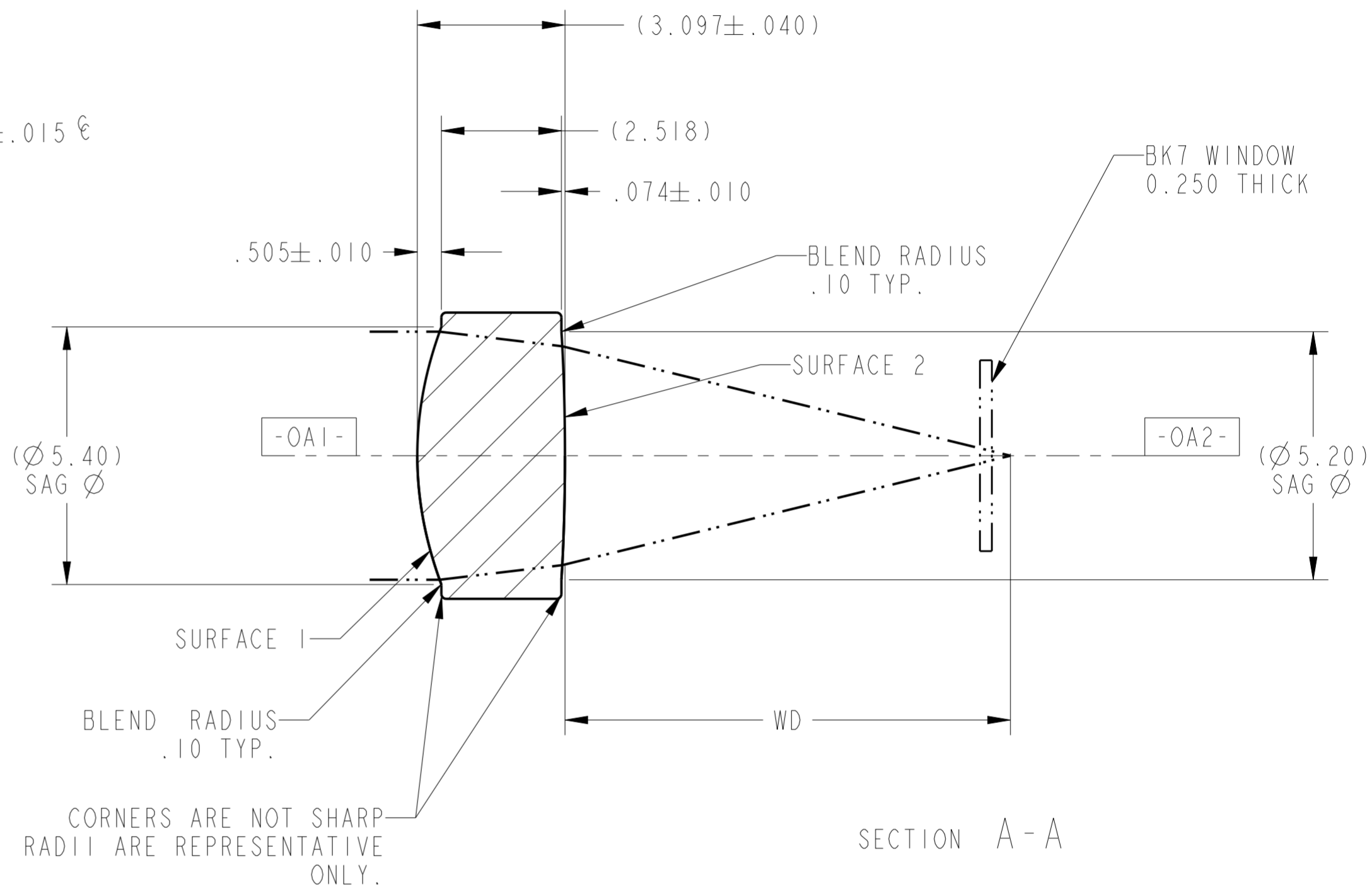
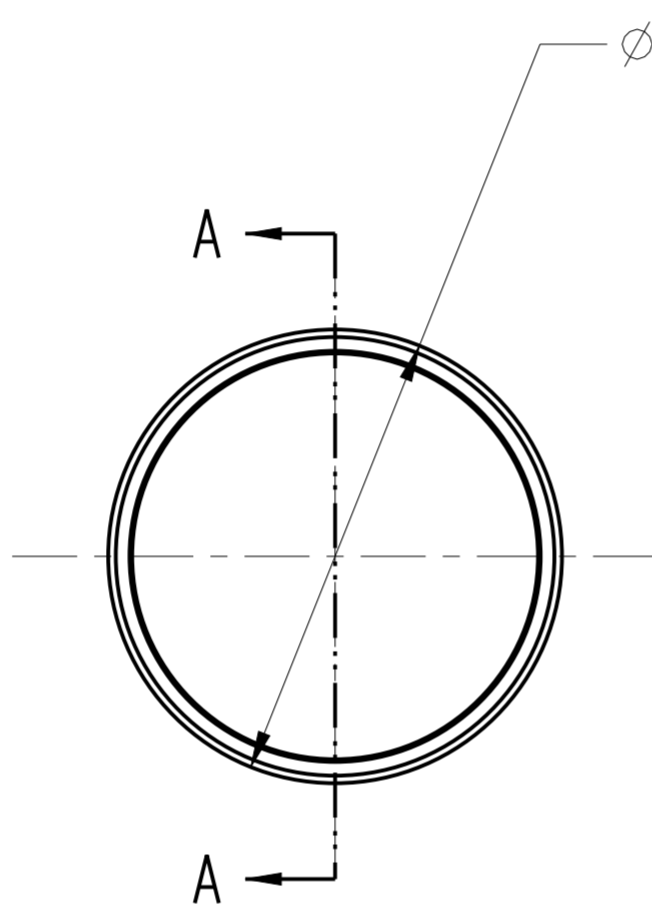
	SURFACE 1	SURFACE 2
TYPE	ASPHERE	ASPHERE
SHAPE	CX	CX
CA	∅5.20	∅4.59
R _C	7.209428	-49.911426
K	-1.638095	0.000000
A ₂	0.000000E0	0.000000E0
A ₄	1.945594E-4	-1.004968E-4
A ₆	3.270823E-5	-4.725634E-7
A ₈	-1.352620E-5	-2.437377E-7
A ₁₀	2.543775E-6	-3.915471E-7
A ₁₂	-2.553089E-7	4.281957E-8
A ₁₄	1.036366E-8	0.000000E0
A ₁₆	0.000000E0	0.000000E0

5. NOMINAL DESIGN PARAMETERS.

DESIGN WAVELENGTH	633 nm
W.D.	9.3 mm
N.A.	0.24
E.F.L.	11.0mm ± 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: 80/50
8. THIS ELEMENT IS USED AS A COLLIMATING LENS. WAVEFRONT ERROR: < 0.05 WAVES RMS @ 632.8nm PER LIGHTPATH PWI INS-8.2-03. Ⓢ

REVISION HISTORY				
REV	ECN	DESCRIPTION	DATE	INITIALS
A	2236	INITIAL RELEASE	03/04/10	ASYMMONS
B	4293	NEW CATALOG FORMAT	10/6/15	PL
C	6330	CORRECT ROUNDING ERROR IN N.A.	10/15/2020	CM



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
TECHNOLOGIES

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 354064

MATERIAL
D-ZK3(m)

SIZE

A2

DWG NO

0354064

REV

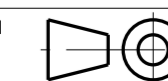
C

SOFTWARE
Pro/ENGINEER

SCALE:

10.00

THIRD ANGLE PROJECTION



SHEET

1 OF 1



DWG NO 0354064 REV C SH 1