

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: r = RADIAL DISTANCE FROM VERTEX IN mm

- ### 3. SURFACE DEFINITIONS:

	SURFACE 1	SURFACE 2
TYPE	ASPHERE	PLANO
SHAPE	CX	PL
CA	$\varnothing 3.00$	$\varnothing 1.85$
R_C	2.355553	PLANO
K	-0.886788	0.000000
A_2	0.000000E0	0.000000E0
A_4	-1.338984E-3	0.000000E0
A_6	-2.297864E-3	0.000000E0
A_8	2.380062E-4	0.000000E0
A_{10}	0.000000E0	0.000000E0
A_{12}	0.000000E0	0.000000E0
A_{14}	0.000000E0	0.000000E0
A_{16}	0.000000E0	0.000000E0

- #### 4. NOMINAL DESIGN PARAMETERS:

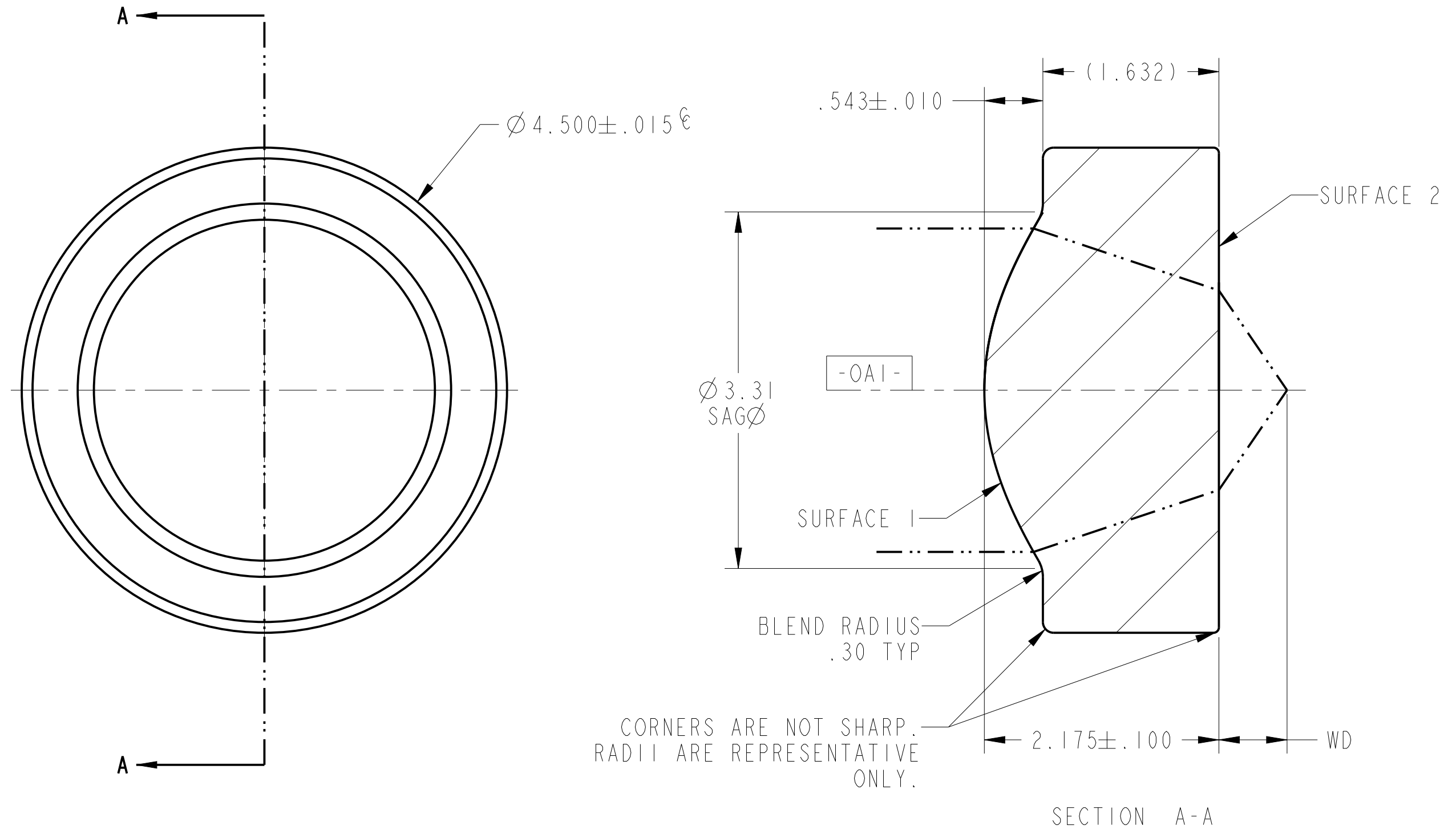
DESIGN WAVELENGTH	9200 nm
W.D.	0.63 mm
N.A.	0.83
E.F.L.	1.5mm

5. FEATURES IDENTIFIED AS Ⓒ 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. Ⓒ
-00: S/D: 80/50, DEFECTS <10 MICRONS ARE IGNORED.

7 SET BY TOLERANCES OF PRESS TOOLING. SPECIFICATION NOT MEASURED DIRECTLY.

	RADIUS ERROR	IRREGULARITY	CENTRATION TO OD 7	TILT TO OD 7
S1	±0.005 mm	< 316.5 nm PV	< 0.007 mm	< 0.6 mrad
S2	N/A	< 105.5 nm RMS		

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	3292	INITIAL RELEASE	10/31/12	IN
B	6496	DRAWING FORMAT UPDATED	04/12/21	YK
		S/D NOTE UPDATED		



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 IN\ORL		TITLE LENS CODE 390010			
MATERIAL BD2 (m)		SIZE A2	DWG NO 0390010		REV B
SOFTWARE Pro/ENGINEER		SCALE: 25.00	THIRD ANGLE PROJECTION 		SHEET 1 OF 1