

24X ϕ .563 ∇ .500
EQLY SPC'D ON BCD
 \oplus ϕ .010 A B C

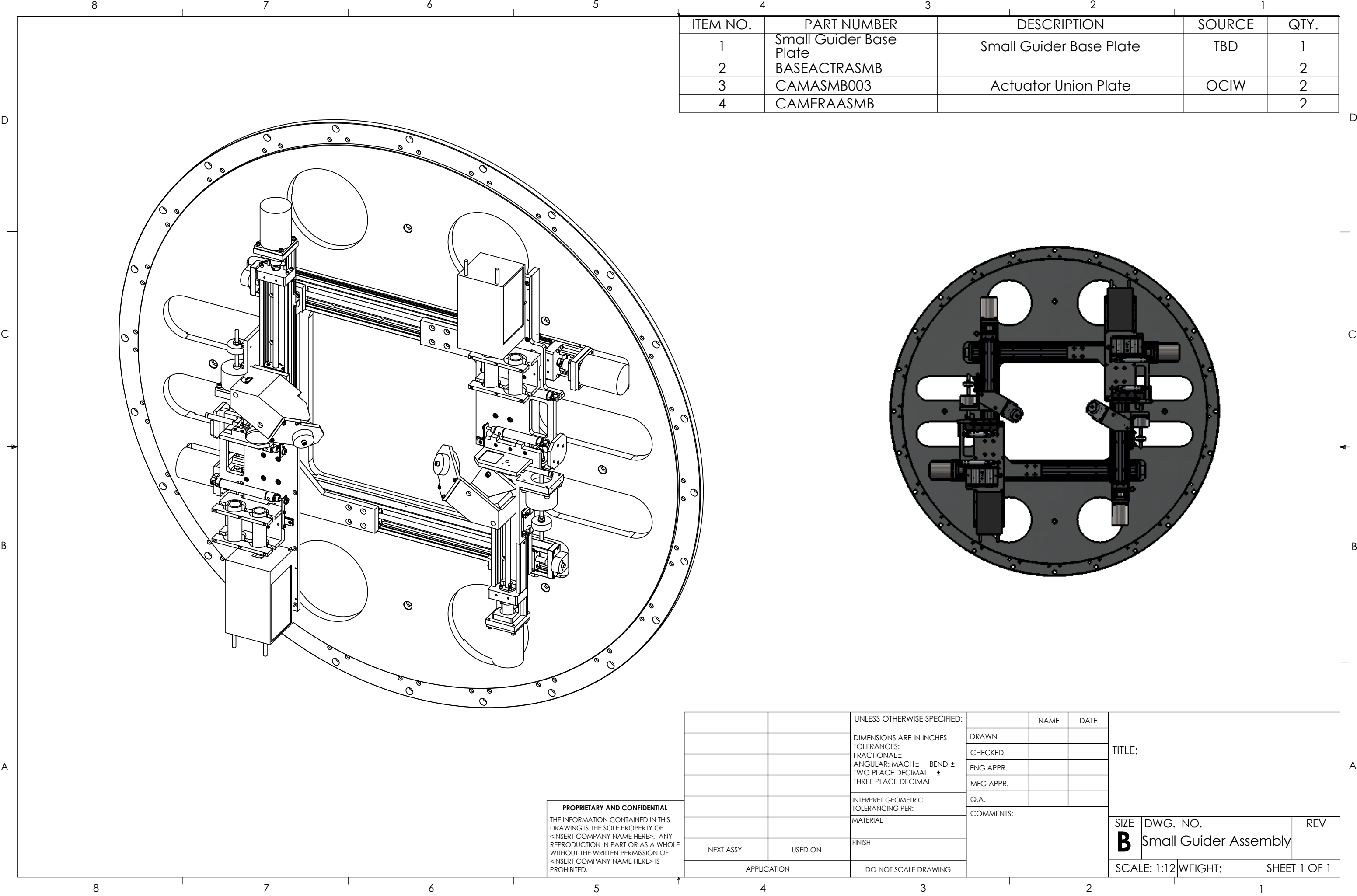
24X ϕ .165 THRU ALL
M5X0.8 - 6H THRU ALL
 \oplus ϕ .010 A B C

48X ϕ .332 THRU ALL
 \square ϕ .531 ∇ .313 FAR SIDE
2 HOLES EQLY SPACED (24 POS)
 \oplus ϕ .010 A B C

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL: \pm	ENG APPR.		
		ANGULAR: MACH \pm BEND \pm	MFG APPR.		
		TWO PLACE DECIMAL \pm	Q.A.		
		THREE PLACE DECIMAL \pm	COMMENTS:		
		INTERPRET GEOMETRIC			
		TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

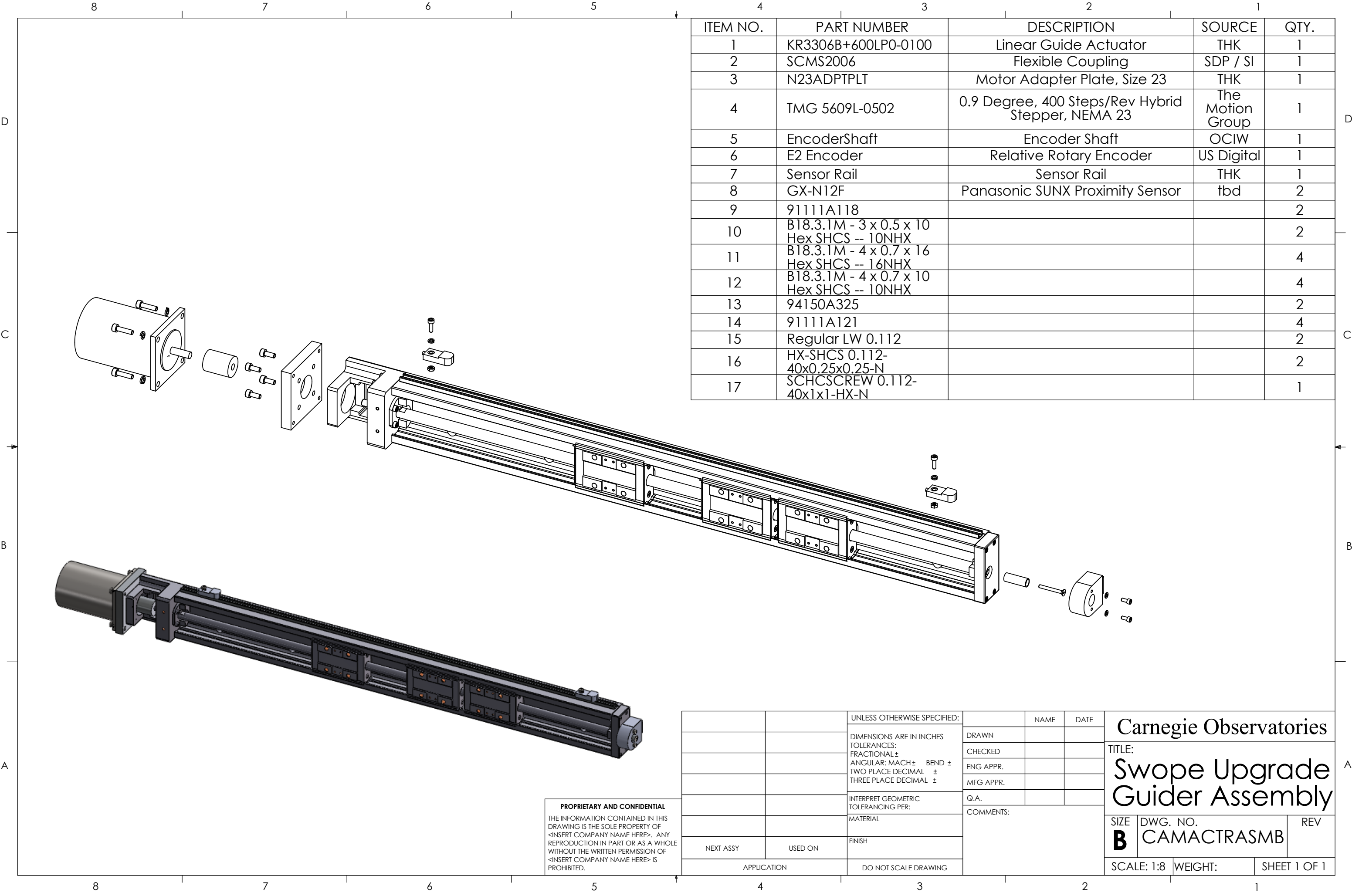
Carnegie Observatories		
TITLE:		
Swope Upgrade Guider Assembly		
SIZE	DWG. NO.	REV
C	Small Guider Base Plate	
SCALE: 1:8	WEIGHT:	SHEET 1 OF 1



ITEM NO.	PART NUMBER	DESCRIPTION	SOURCE	QTY.
1	Small Guider Base Plate	Small Guider Base Plate	TBD	1
2	BASEACTRASMB			2
3	CAMASMB003	Actuator Union Plate	OCIW	2
4	CAMERAASMB			2

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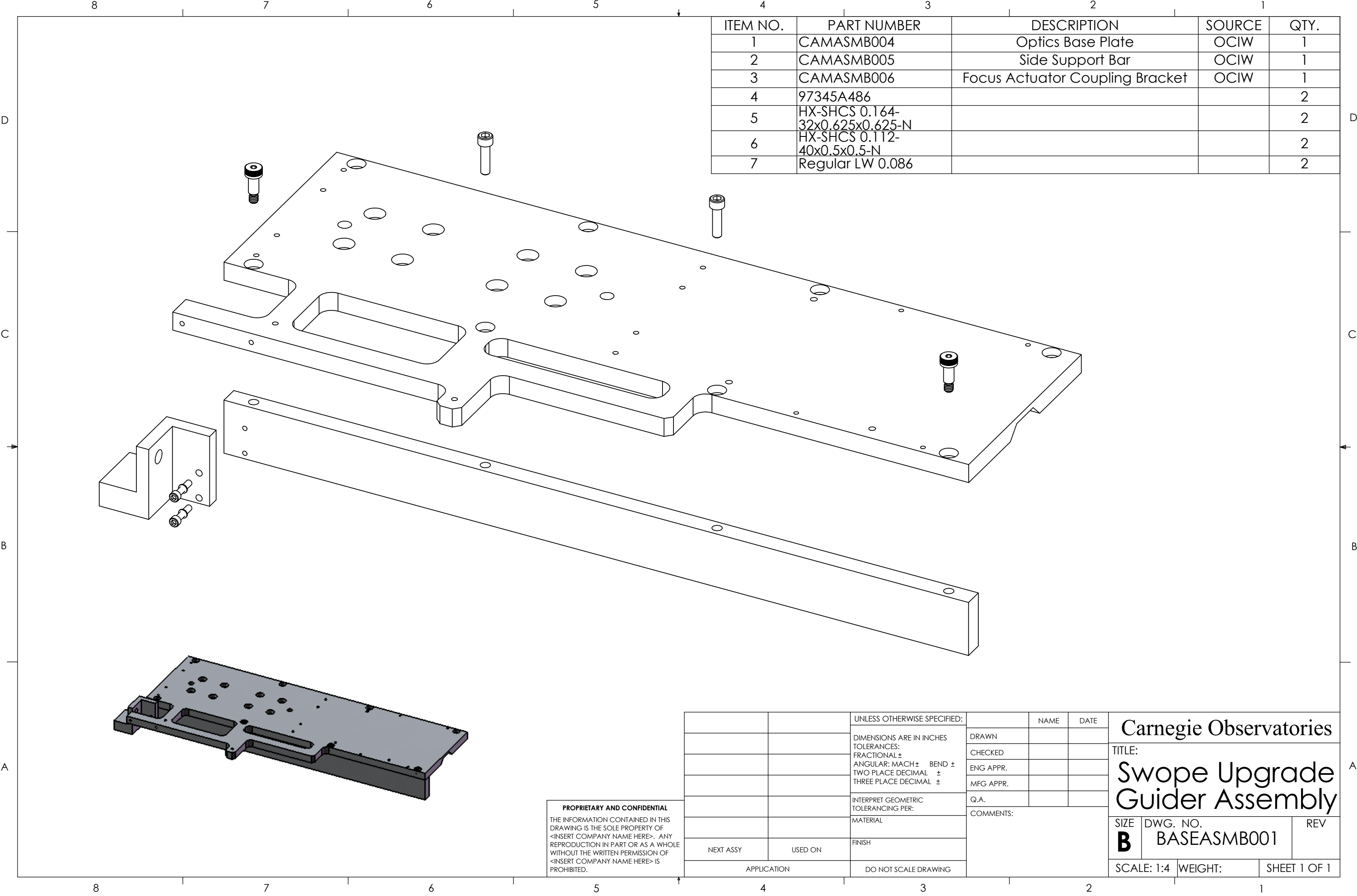
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		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±						
		THREE PLACE DECIMAL ±						
		INTERPRET GEOMETRIC	Q.A.					
		TOLERANCING PER:	COMMENTS:					
		MATERIAL						
		FINISH				SIZE	DWG. NO.	REV
NEXT ASSY	USED ON					B	Small Guider Assembly	
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:12		WEIGHT:
								SHEET 1 OF 1



ITEM NO.	PART NUMBER	DESCRIPTION	SOURCE	QTY.
1	KR3306B+600LP0-0100	Linear Guide Actuator	THK	1
2	SCMS2006	Flexible Coupling	SDP / SI	1
3	N23ADPTPLT	Motor Adapter Plate, Size 23	THK	1
4	TMG 5609L-0502	0.9 Degree, 400 Steps/Rev Hybrid Stepper, NEMA 23	The Motion Group	1
5	EncoderShaft	Encoder Shaft	OCIW	1
6	E2 Encoder	Relative Rotary Encoder	US Digital	1
7	Sensor Rail	Sensor Rail	THK	1
8	GX-N12F	Panasonic SUNX Proximity Sensor	tbd	2
9	91111A118			2
10	B18.3.1M - 3 x 0.5 x 10 Hex SHCS -- 10NHX			2
11	B18.3.1M - 4 x 0.7 x 16 Hex SHCS -- 16NHX			4
12	B18.3.1M - 4 x 0.7 x 10 Hex SHCS -- 10NHX			4
13	94150A325			2
14	91111A121			4
15	Regular LW 0.112			2
16	HX-SHCS 0.112-40x0.25x0.25-N			2
17	SCHCSCREW 0.112-40x1x1-HX-N			1

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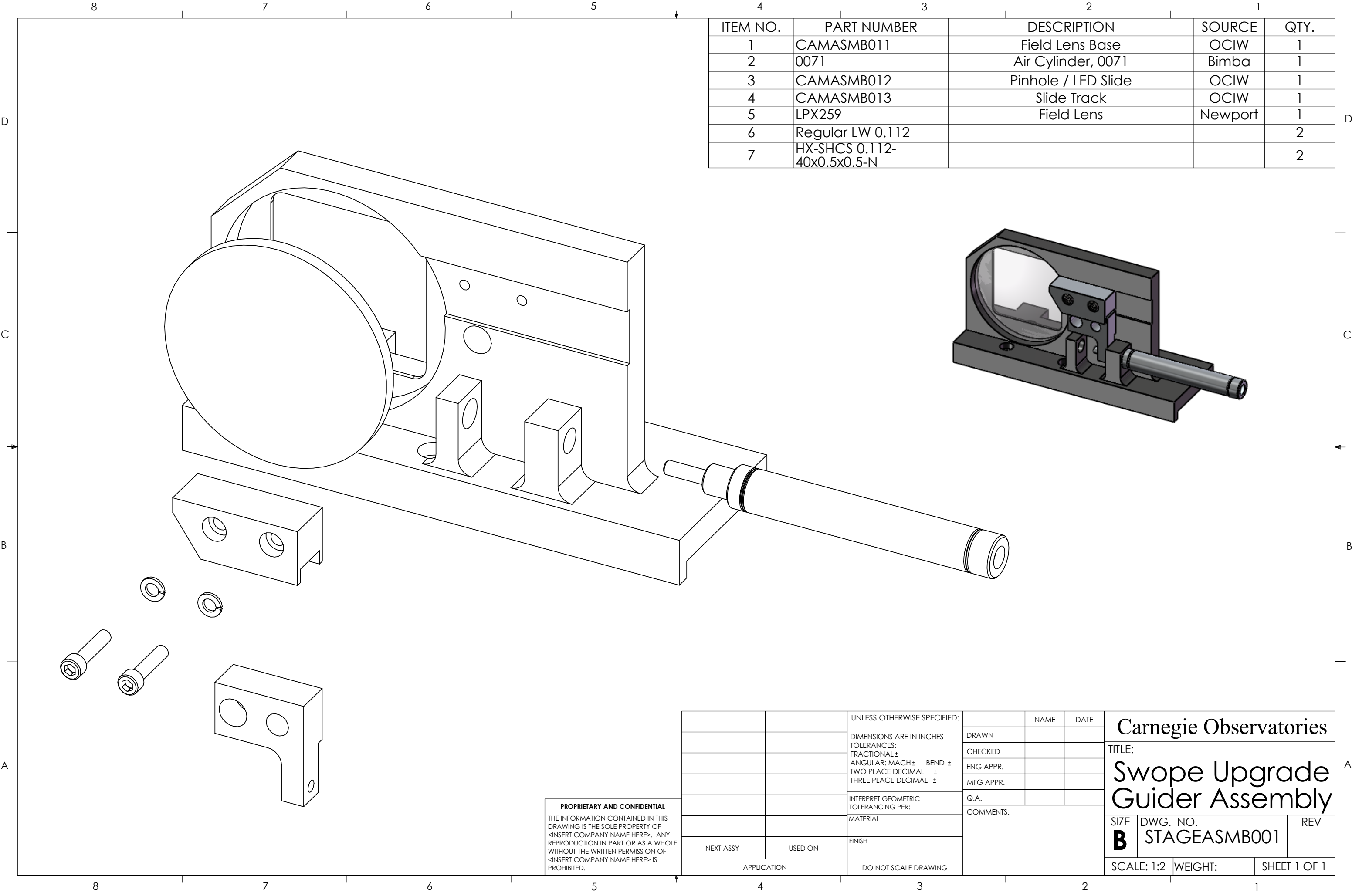
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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN						SIZE	DWG. NO.	REV
		INTERPRET GEOMETRIC TOLERANCING PER:	CHECKED						B	CAMACTRASMB	
		MATERIAL	ENG APPR.						SCALE: 1:8 WEIGHT: SHEET 1 OF 1		
		FINISH	MFG APPR.								
NEXT ASSY	USED ON		Q.A.								
APPLICATION		DO NOT SCALE DRAWING	COMMENTS:								



ITEM NO.	PART NUMBER	DESCRIPTION	SOURCE	QTY.
1	CAMASMB004	Optics Base Plate	OCIW	1
2	CAMASMB005	Side Support Bar	OCIW	1
3	CAMASMB006	Focus Actuator Coupling Bracket	OCIW	1
4	97345A486			2
5	HX-SHCS 0.164-32x0.625x0.625-N			2
6	HX-SHCS 0.112-40x0.5x0.5-N			2
7	Regular LW 0.086			2

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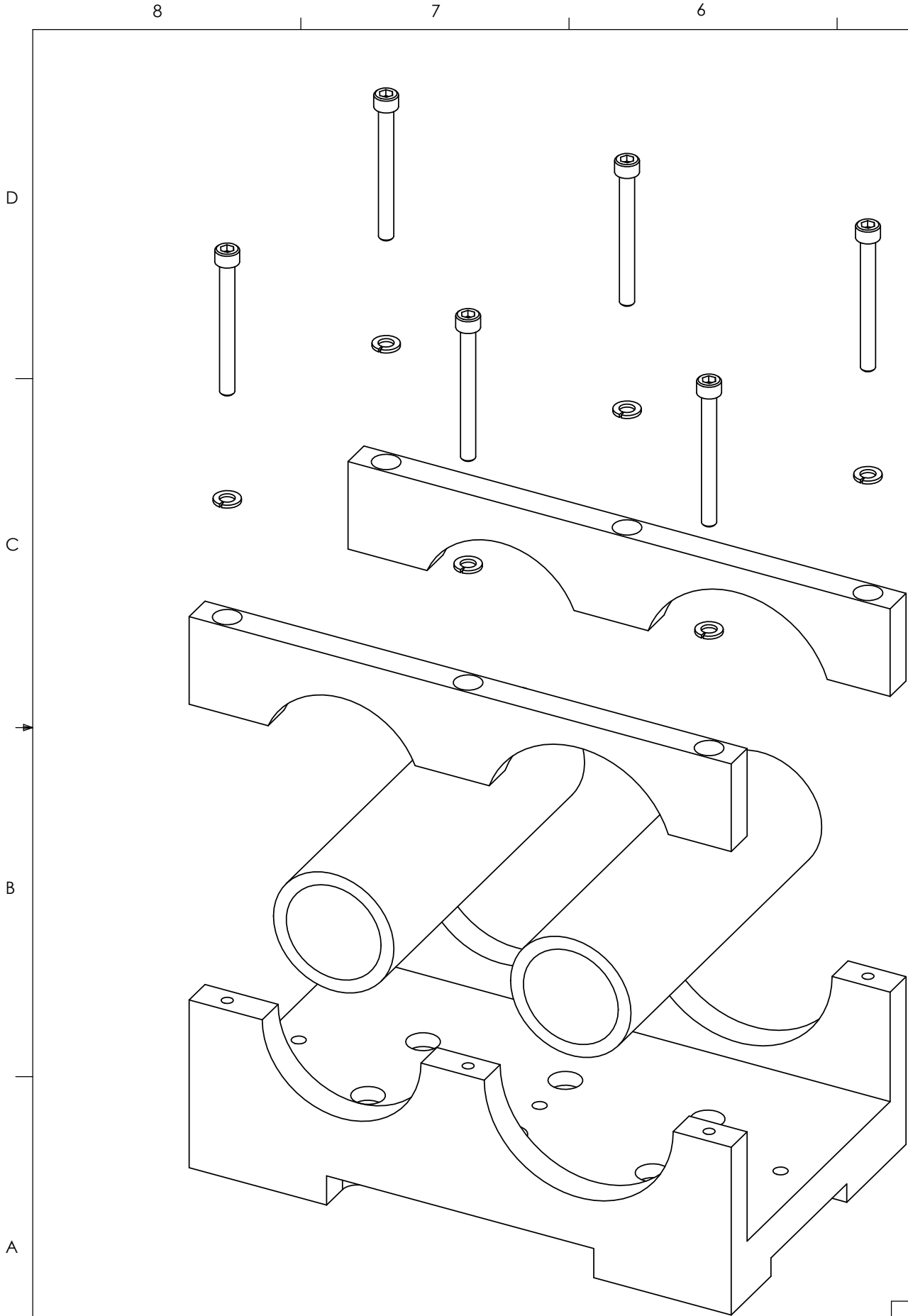
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		DIMENSIONS ARE IN INCHES	DRAWN			TITLE: Swope Upgrade Guider Assembly		
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		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO. REV		
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:4 WEIGHT: SHEET 1 OF 1		
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						



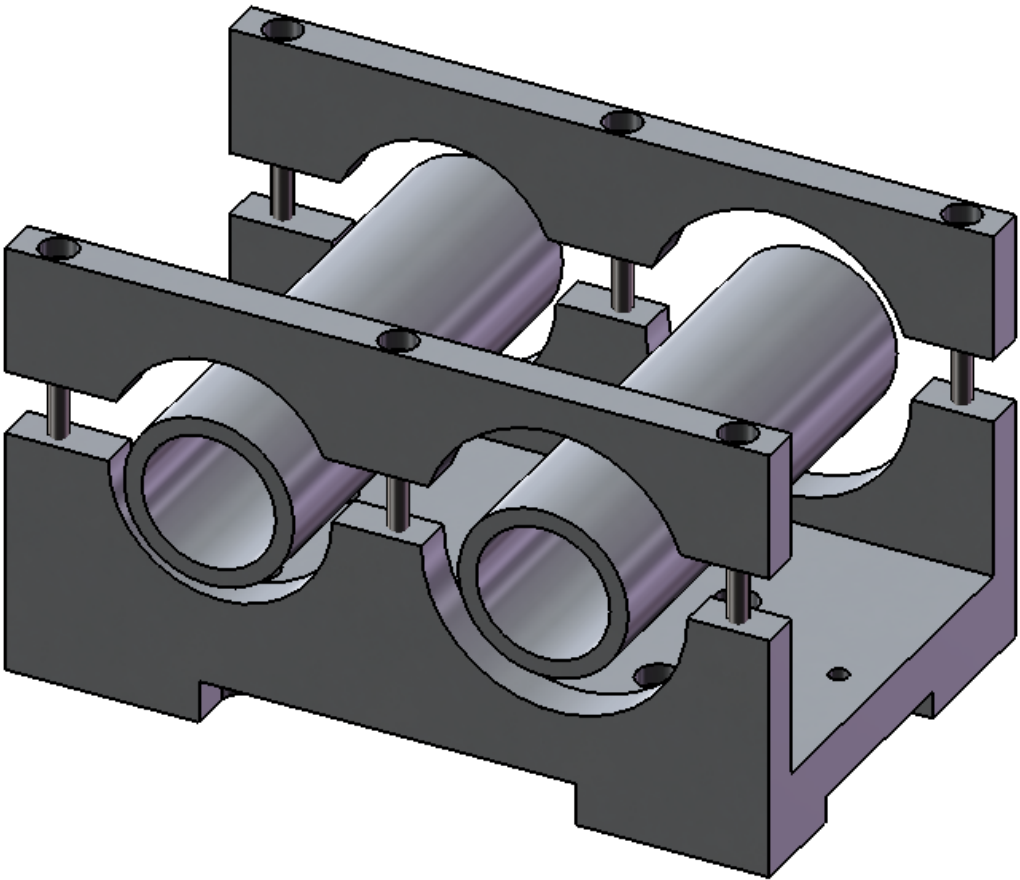
ITEM NO.	PART NUMBER	DESCRIPTION	SOURCE	QTY.
1	CAMASMB011	Field Lens Base	OCIW	1
2	0071	Air Cylinder, 0071	Bimba	1
3	CAMASMB012	Pinhole / LED Slide	OCIW	1
4	CAMASMB013	Slide Track	OCIW	1
5	LPX259	Field Lens	Newport	1
6	Regular LW 0.112			2
7	HX-SHCS 0.112-40x0.5x0.5-N			2

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		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO. REV		
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						

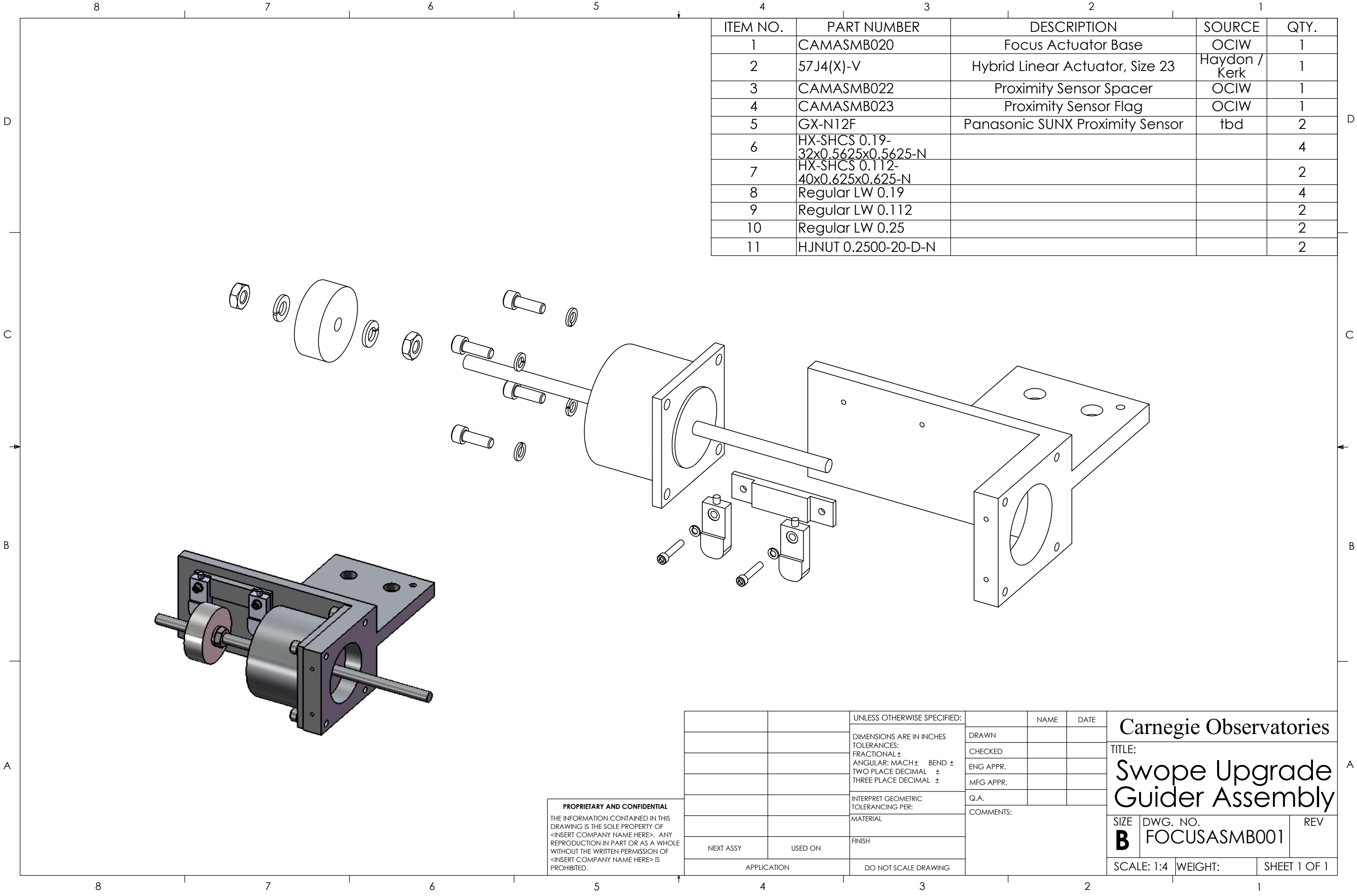


ITEM NO.	PART NUMBER	DESCRIPTION	SOURCE	QTY.
1	CAMASMB008	Optics Barrel Base	OCIW	1
2	CAMASMB009	Optics Barrel Dummy	OCIW	2
3	CAMASMB010	Optics Barrel Clamp Plate	OCIW	2
4	Regular LW 0.112			6
5	HX-SHCS 0.112-40x1.125x0.875-N			6



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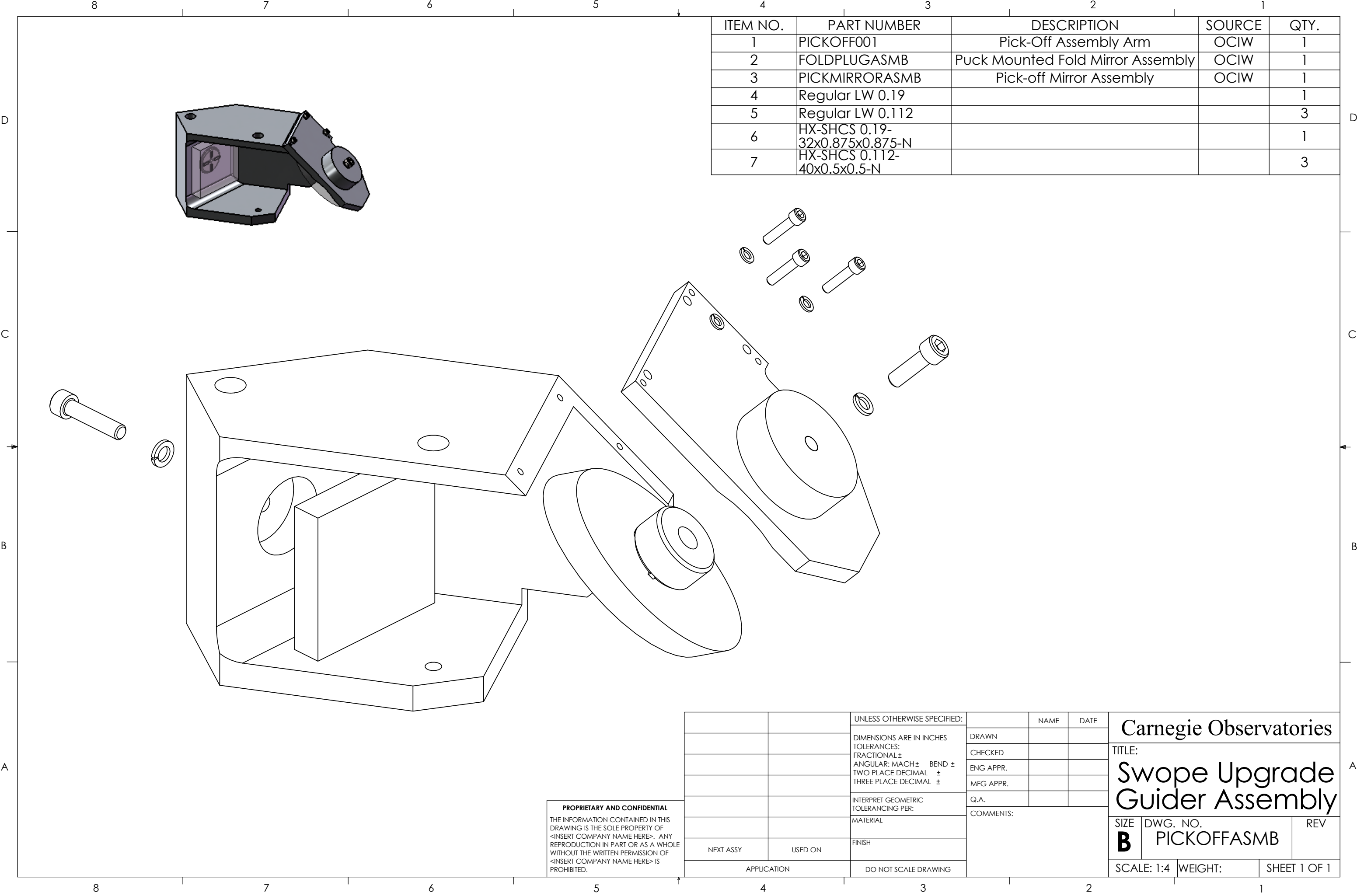
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		ANGULAR: MACH ± BEND ±	MFG APPR.			TITLE: Swope Upgrade Guider Assembly	
		TWO PLACE DECIMAL ±	Q.A.				
		THREE PLACE DECIMAL ±	COMMENTS:			SIZE	DWG. NO.
		INTERPRET GEOMETRIC TOLERANCING PER:				B	STAGEASMB002
		MATERIAL					REV
		FINISH				SCALE: 1:2	WEIGHT:
NEXT ASSY	USED ON	DO NOT SCALE DRAWING					SHEET 1 OF 1



ITEM NO.	PART NUMBER	DESCRIPTION	SOURCE	QTY.
1	CAMASMB020	Focus Actuator Base	OCIW	1
2	57J4(X)-V	Hybrid Linear Actuator, Size 23	Haydon / Kerk	1
3	CAMASMB022	Proximity Sensor Spacer	OCIW	1
4	CAMASMB023	Proximity Sensor Flag	OCIW	1
5	GX-N12F	Panasonic SUNX Proximity Sensor	tbd	2
6	HX-SHCS 0.19-32x0.5625x0.5625-N			4
7	HX-SHCS 0.112-40x0.625x0.625-N			2
8	Regular LW 0.19			4
9	Regular LW 0.112			2
10	Regular LW 0.25			2
11	HJNUT 0.2500-20-D-N			2

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		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO. REV		
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:4 WEIGHT: SHEET 1 OF 1		
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						



ITEM NO.	PART NUMBER	DESCRIPTION	SOURCE	QTY.
1	PICKOFF001	Pick-Off Assembly Arm	OCIW	1
2	FOLDPLUGASMB	Puck Mounted Fold Mirror Assembly	OCIW	1
3	PICKMIRRORASMB	Pick-off Mirror Assembly	OCIW	1
4	Regular LW 0.19			1
5	Regular LW 0.112			3
6	HX-SHCS 0.19-32x0.875x0.875-N			1
7	HX-SHCS 0.112-40x0.5x0.5-N			3

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			CHECKED						
			ENG APPR.						
			MFG APPR.						
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE B			
		MATERIAL	COMMENTS:						
		FINISH							
NEXT ASSY	USED ON					DWG. NO. PICKOFFASMB		REV	
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:4		WEIGHT:	SHEET 1 OF 1

