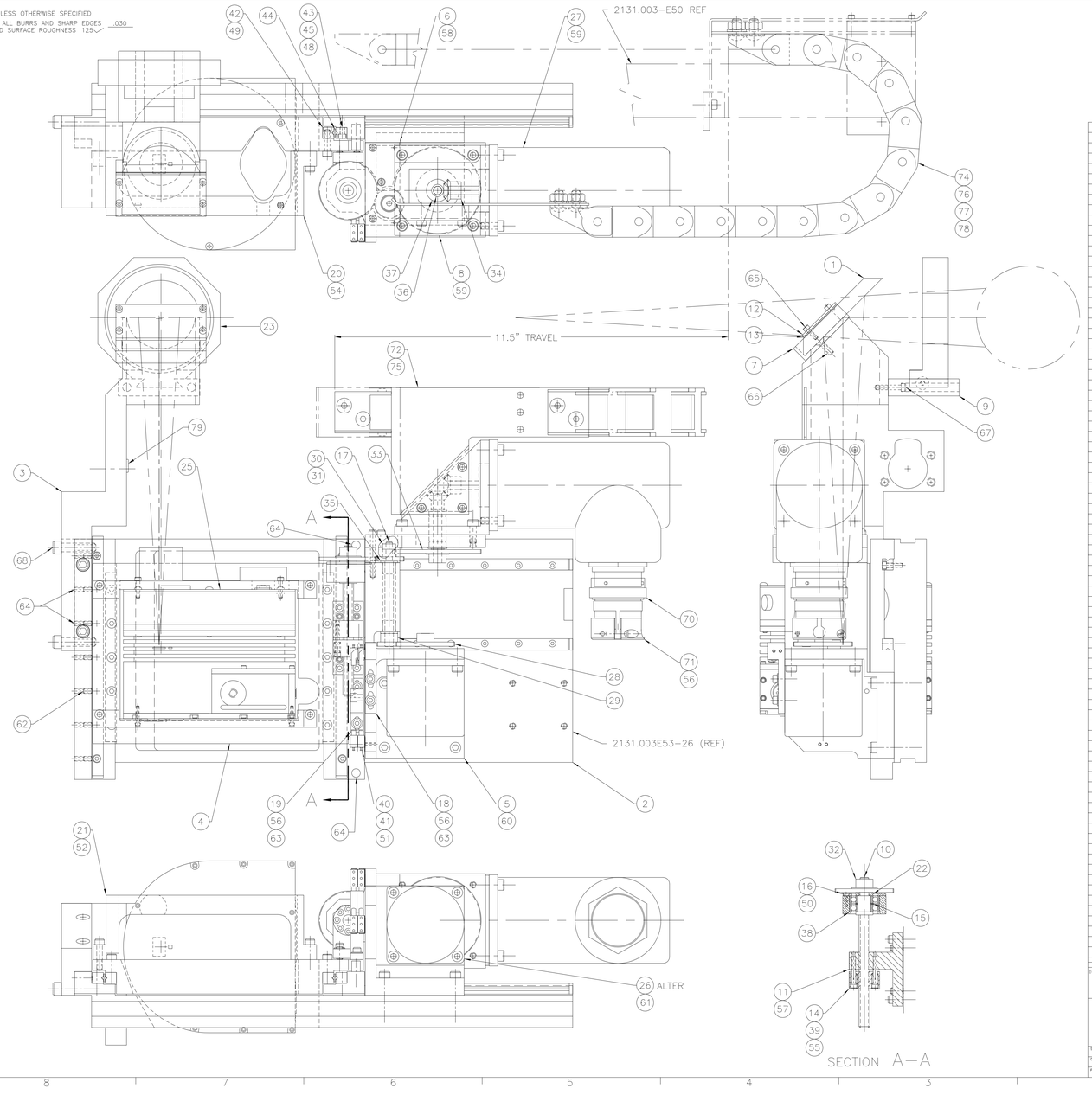
NOTES: UNLESS OTHERWISE SPECIFIED
1. REMOVE ALL BURRS AND SHARP EDGES .030
2. MACHINED SURFACE ROUGHNESS 125
3. MAT'L:
4. FINISH:

REVISIONS					
ZONE	LTR	DESCRIPTION	ECR	DATE	BY	APRV
E8	–	ADDED PRISM ARM STOP BUTTON	3573	9/25/02	DPC	
N/A	A	ADDED VENDOR DOC #'S	3579	10/23/03	DPC	



QTY REQD	PART OR IDENTIFYING NO	DESCRIPTION	MATERIAL/SPECIFICATION	ZONE	ITEM NO
1	2131.003A40	VENDOR MANUAL: CFW–8 FILTER WHEEL		N/A	81
1	2131.003A39	VENDOR DOC: MANUAL ST–8 FILTER WHEEL		N/A	80
1	2131.003B27	PRISM ARM STOP BUTTON		E8	79
2		1/4 LOCK WASHER	STL	G4	78
2		1/4–20 HEX NUT	STL	G4	77
2		1/4–20 x 1/2LG HEX SOC BUTTON HD SCR	STL	G4	76
3		#8–32 x 1/4 LG SOC HD CAP SCR	STL	E6	75
1	B15–025–038–0	E–CHAIN,SERIES B15–E2 MINI x18"(13 LINK) IGUS		G4	74
1	2131.003C24	"X"BRACKET–TOP		E6	72
1	2131.003A29	CONNECTOR CAP		D5	71
1	851–06EC22–55550	CONNECTOR	AIR ELECTRO INC.	D5	70
4		1/4–20 x 1 LG SOC HD CAP SCR	STL	D8	68
2		#6–32 x 3/4 LG HEX SOC CAP SCR		E3	67
2		#6–32 x 3/8 LG HEX SOC FLAT HD SCR		F3	66
4		#4–40 x 3/8 LG SOC HD CAP SCR		F3	65
2		1/4 DIA x 3/4 LG STD DOWEL		D8	64
4		#6 FLAT WASHER		C6	63
7		#6–32 x 3/16 LG HEX SOC SET SCR		C8	62
4		#10–24 x 3/8 LG HEX SOC SET SCR		B6	61
4		#10–24 x 1 LG SOC HD CAP SCR		C6	60
8		#10–24 x 1/2 LG SOC HD CAP SCR		G6	59
3		#6–32 x 1 1/4 LG SOC HD CAP SCR		G6	58
4		#6–32 x 5/8 LG SOC HD CAP SCR		A3	57
6		#6–32 x 1/2 LG SOC HD CAP SCR		D5	56
8		#4–40 x 1 LG SOC HD CAP SCR		A3	55
2		#4–40 x 1/2 LG SOC HD CAP SCR		G6	54
3		#4–40 x 1/4 LG SOC HD CAP SCR			53
2		#2–56 x 1/2 LG SOC HD CAP SCR		B8	52
4		#2–56 x 5/8 LG SOC HD CAP SCR		C6	51
3		#2–56 x 3/8 LG HEX SOC FLAT HD SCR		A3	50
10		M4 x 14mm LG SOC HD CAP SCR		G6	49
14	LWGD3	M3 x 12mm LG SOC HD CAP SCR	SKF	G6	48
4	LWERA3	END STOPS	SKF	G6	45
2	LWJK 3x24	B3 BALL CAGE, 24 BALLS LG	SKF	G6	44
2	LWR3–175	PRECISION RAIL GUIDE –V3, 175mm LG	SKF	G6	43
2	LWR3–125	PRECISION RAIL GUIDE –V3, 125mm LG	SKF	G6	42
4	XJ–40	SWITCH ACTUATOR– LEAF	MICROSWITCH	C6	41
4	1SX1–T	SUBMINIATURE SWITCH	MICROSWITCH	C6	40
8	LC–016B–5	SPRING– COMPRESSION	LEE	A3	39
2	S3K	BEARING–.875 OD x .375 ID x .219 W	FAFNIR	A3	38
2	E2–13	BALL BEARING	PIC	G6	37
1	A3–20	SHAFT–PRECISION GROUND	PIC	G6	36
2	B10–10	SINTERED BRONZE BEARING	PIC	D6	35
SET	N3–1–AB	ANTI–BACKLASH MITER GEARS	PIC	G6	34
1	P17–1–120	ANTI–BACKLASH GEAR–48P,120T,2.500PD,2.54100,.25BORE	PIC	D6	33
1	P17–1–80	ANTI–BACKLASH GEAR–48P,80T,1.6667PD,1.7080D,.25BORE	PIC	A3	32
1	CO–8	CLUSTER GEAR–48P,20T,.4166PD,.4580D,BSTYLE	PIC	D6	31
1	J2–40–Q14	SPUR GEAR–48P,40T,.8333PD,.8750D,HUBLESS	PIC	D6	30
1	G3–32–Q14	SPUR GEAR–48P,32T,.6666PD,.7080D,.25BORE	PIC	D6	29
1	AB21–80	DELRIN SPUR GEAR–48P,80T,.25BORE	PIC	D6	28
1	821–05–XXXX	ENCODER M725–S–LS–0256–0016–G–0C–05–S–X–X	BEI	G5	27
1	M2–2220–S (D)	STEPPER MOTOR	IMS	B6	26
1	ST–7/CFW–8	CCD–CAMERA/FILTER WHEEL SANTA BARBARA INST		D7	25
1	2131.003B29	LENS MOUNT, DOUBLET		F7	23
1	2131.003A19	NUT–BEARING RETAINER		A3	22
1	2131.003C18	CAMERA MOUNT–REAR		B8	21
1	2131.003C17	CAMERA MOUNT–FRONT		G6	20
1	2131.003A9	LIMIT SWITCH ACTUATOR, CAMERA DRIVE		C6	19
1	2131.003A8	LIMIT SWITCH BRACKET, CAMERA DRIVE		C6	18
1	2131.003A7	JACK SHAFT, CAMERA DRIVE		D6	17
1	2131.003A6	BEARING RETAINER, CAMERA DRIVE		A3	16
1	2131.003A5	PRELOAD SPACER, CAMERA DRIVE		A3	15
1	2131.003A4	PRELOAD NUT, CAMERA DRIVE		A3	14
1	2131.003B16	MIRROR GASKET		F3	13
1	2131.003B15	MIRROR RETAINER		F3	12
1	2131.003B12	DRIVE NUT, CAMERA		A3	11
1	2131.003B11	DRIVE SCREW, CAMERA		A3	10
1	2131.003C14	ADJUSTABLE LENS MOUNT		E3	9
1	2131.003C13	ENCODER ANGLE BRACKET		G6	8
1	2131.003C10	MIRROR HOUSING		F3	7
1	2131.003C9	ENCODER BRACKET, CAMERA DRIVE		G6	6
1	2131.003D15	BRACKET, CAMERA DRIVE		C6	5
1	2131.003D14	CAMERA MOUNT,FOCUS		C7	4
1	2131.003E52	PROBE		E8	3
1	2131.003E51	"X" CARRIAGE		C5	2
1	2131.003E33–1	PICK–UP FLAT		F3	1

TOLERANCES UNLESS OTHERWISE NOTED
DECIMALS: XX ± .03, XXX ± .010
FRACTIONS ± –
ANGULAR ± 0°30'

NATIONAL OPTICAL ASTRONOMY OBSERVATORIES
OPERATED BY THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY UNDER COOPERATIVE AGREEMENT WITH NATIONAL SCIENCE FOUNDATION

NEXT ASSEMBLY: 2131.003E1

NAME: WAVEFRONT CAMERA FOCUS DRIVE

REF FILE: 1301
USED ON:

SCALE	DESIGNED BY	DATE	APPROVED BY	DATE	DWG NO	REV
FULL					2131.003E54	A
DRAWING PRODUCED USING: AUTOCAD v.14	DRAWN BY: J.MOEY 01/10/01	DATE	APPROVED BY	DATE		
PRINT ISSUED	CHECKED BY	DATE	APPROVED BY	DATE	RELEASED	SHEET OF