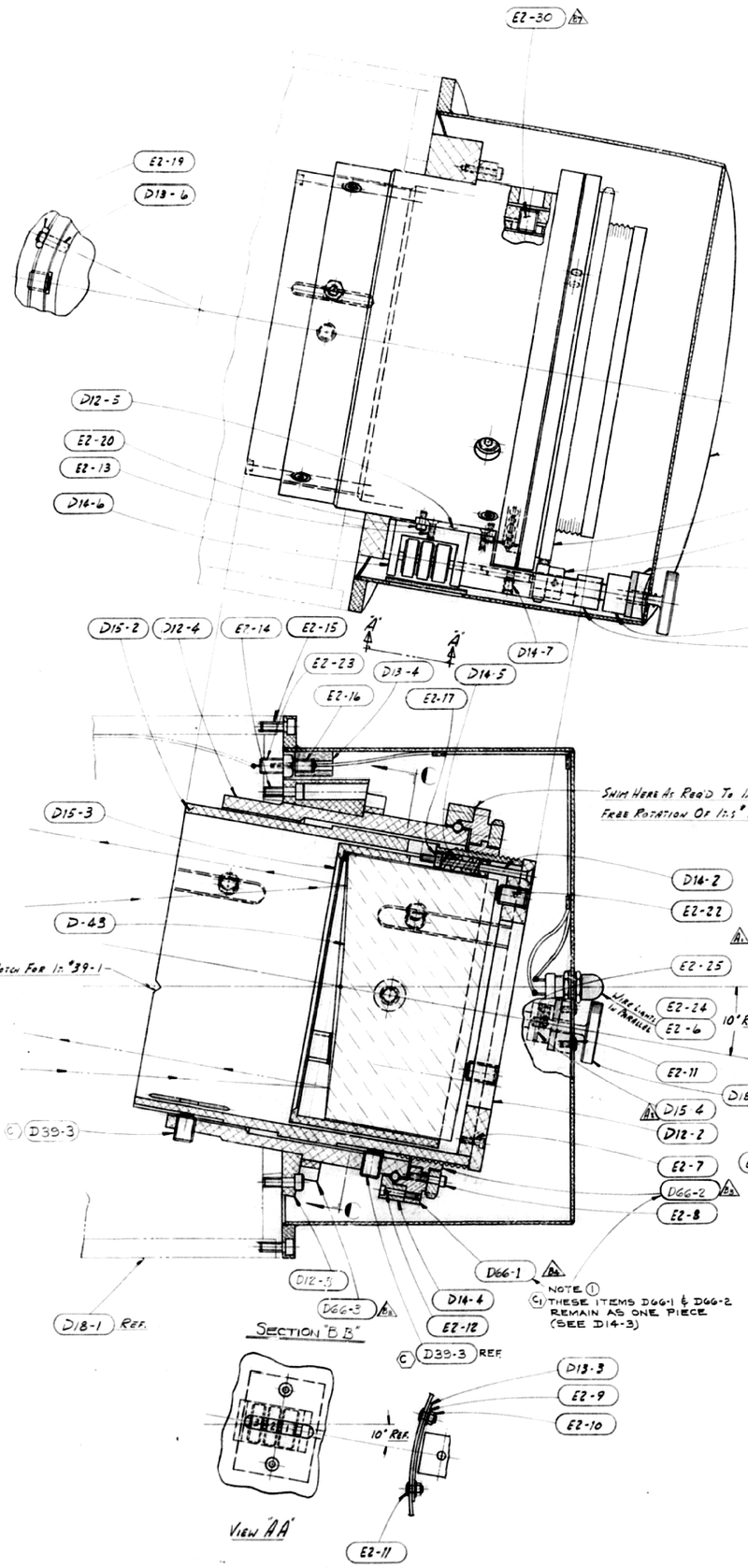


ITEM	QTY.	MAT'L	DESCRIPTION
A1 E2-23	2	E.F. JOHNSON #108-305	BLACK BANANA JACK #328 6-32 BUG
E2-24	2		
E2-25	3	STAINLESS STL	BALL PLUNGER (LEE #LPB-6AN)
E2-26	2	STL	FL HD SOC CAP SCR #6-32 x 3/8
A2 E2-27	6	STL	DOWEL 1/16 x 1/2
E2-28	1		COLLIMATOR ASSY
D39-1	1		COLLIMATOR SHUTTER
D43-1	1		COLLIMATOR MIRROR
A3 E2-29	15		SOC HD CAP SCR #6-40 x 5/8
D66-1	1		NUT-MIRROR CELL ADJUSTER
D66-2	1		THREADED SLEEVE
D66-3	1		FLANGE-MIRROR CELL HOUSING
D66-4	1		KEY
E2-30	3		SET SCREW ASSY.
-304	3	SET SCR. #M73	AS 624-10 80 1/4 DIA. x 1/16 THK.
-308	3	NYLON	

BILL OF MATERIAL

SIZES OF MATERIAL NOTED DO NOT INCLUDE STOCK ALLOWANCE FOR MACHINING AND CUTTING OFF EXCEPT AS NOTED. THE SIZE SPECIFIES THE MATERIAL REQUIRED FOR ONE PIECE ONLY. QUANTITIES NOTED ARE THE TOTAL NUMBER REQUIRED.

ITEM	DWG. NO.	QTY.	MATERIAL	DESCRIPTION	WEIGHT
E2-1		2	STL	BUTTON HD SOC CAP SCR #8-32 x 1/4	
-2		4	STL	DOWEL 1/8 x 1/2	
-3		2	STL	DOWEL 1/16 x 3/16	
-4		85	STL	PRECISION BALL 1/8 DIA. #AR-3	PKG
-5		85	STL	PRECISION BALL 3/32 DIA. #AR-4	PKG
-6		2		DIALCO SUB-MINIATURE INDICATOR LIGHT #101-3330-931	
A1 -7		6		SOC HD CAP SCR #8-40 x 3/8	
-8		6		SOC HD CAP SCR #5-40 x 5/8	
-9		2	BRASS	WASHER #4	
-10		2	STL	HEX NUT #4-40	
-11		4	STL	BUTTON HD SOC CAP SCR #8-40 x 3/8	
-12		6	STL	SOC. HD. CAP SCR #5-40 x 5/8	
-13		2	STL	FL HD SOC CAP SCR #8-40 x 5/8	
-14		6	STL	SOC HD CAP SCR #10-32 x 5/8	
-15		6	STL	SOC HD CAP SCR #10-32 x 1/2	
A1 -16		2	E.F. JOHNSON	#108-305 BLACK BANANA JACK	
-17		3		SKIRRET NUT #8-32	
-18		1		STL SPUR GEAR #H24-18 "BOSTON"	
-19		1	STL	HEX NUT #10-24	
-20		6	STL	SOC HD CAP SCR #8-40 x 1/4	
A2 -21		6		SET SCR. ASS'Y	
C3 -21A		6	SET SCR. #M73	AS 624-8 80 "NYLON"	
A2 -21B		6	BRASS	1/4 DIA. x 1/16 THK.	
-22		3		SET SCR. ASS'Y	
-22A		3	SET SCR. #M73	AS 624-10 80 "NYLOK"	
-22B		3	NYLON	1/4 DIA. x 1/16 THK.	
D13-1		1		COLLIMATOR COVER	
D13-2		1		LIGHT SHIELD ASS'Y	
D13-3		1		WINDOW	
D13-4		1		BLOCK-ELEC. CONNECTION	
A1 D13-5		2		LUG	
D13-6		1		KEY-MIRROR CELL	
D12-1		1		PILLOW BLOCK	
D12-2		1		END "B" MIRROR CELL	
D12-3		1	FLANGE-MIRROR CELL HOUSING	MOUNTING	
D12-4		1		HOUSING-MIRROR CELL	
D12-5		1		MOUNTING "B" COUNTER	
D14-1		1		GEAR-DRIVEN	
D14-2		3		SCREW	
A4 D14-3		1		NUT-MIRROR CELL ADJUSTER	
D14-4		1		RETAINER-NUT	
D14-5		3		SPRING	
D14-6		1		COUNTER	
D14-7		1		SET SCREW	
D15-1		1		DRIVE SHAFT ASS'Y	
D15-2		1		CELL-MIRROR	
D15-3		1		RETAINER ASS'Y-MIRROR	
D18-3		1		HAND KNOB	
A2 D15-4		1		DRIVE PIN	

REV.	DESCRIPTION	DATE	BY
C	A) ADDED NOTE ① (B) ADDED NOTE ② D39-3 REMOVED E2-21, 21A, 21B (4) D39-3 WAS E2-21	11-7-94	
B7	E2-30 "ADDED; E2-21 WAS 6 REQ'D	10-30-91	MF
B6	#8-32 WAS #5-40 SLR.		
B5	BRASS PAD WAS "TEFLON"		
B4	D66-1 WAS D14-3		
B3	E2-29 & D66-2 THRU D66-4 ADDED		
B2	E2-7 WAS 3 REQ'D, E2-27 WAS 2 REQ'D		
B1	SPECIFY C-C ADDED		
A4	11" "E2-16 2 REQ'D WAS 1 REQ'D		
A3	11" "E2-23 2 REQ'D WAS 1 REQ'D		
A2	ADDED ITEM "D15-4		
A1	ITEM "D13-5 REM'D		

QUANT.	PRINT RECORD	DATE

ALTHOUGH THIS DRAWING MAY NOT BE COMPLETELY DETAILED, THE DESIGNER'S INTENT IS SHOWN THEREFORE, THE BIDDER ASSUMES FULL RESPONSIBILITY FOR BUILDING ACCORDING TO THE DESIGNER'S INTENT AND FOR MAKING IT SATISFACTORY WORKING INSTRUMENT. UNLESS OTHERWISE, NO DRAWING WILL BE USED IN MANUFACTURE OR INSTALLATION WITHOUT CONSTRUCTIONAL AND WORKING APPROVAL BY DESIGNER.

TOLERANCES UNLESS OTHERWISE NOTED.
DECIMAL .00 ±.010 .000 ±.005 ANGLES ± 1/4°
FRACTIONAL ± 1/64
FABRICATION: UP TO 10" ± 1/16; 10" TO 30" ± 1/8; 30" & OVER ± .5% ≐ ± .005"/INCH
MACHINING: UP TO 10" ± .010; 10" TO 90" ± .020; 90" & OVER ± .040 ≐ ± .0005"/INCH
MACHINED SURFACES ARE FINISHED TO 125 UNLESS OTHERWISE SPECIFIED.

FOR ASSEMBLY SEE 2028.01-E1

KITT PEAK NATIONAL OBSERVATORY
OPERATED BY THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. UNDER CONTRACT WITH NATIONAL SCIENCE FOUNDATION

84" TELESCOPE -- CASSEGRAIN SPECTROGRAPH

DESIGNED BY	DATE	APPROVED BY	DATE
R.W. WALKER	10-30-91		
DRAWN BY	DATE	APPROVED BY	DATE
PETRI	10-30-91		
CHECKED BY	DATE	APPROVED BY	DATE

SCALE FULL
PRINT ISSUED
COMPONENT

NAME: COLLIMATOR ASS'Y

DRAWING NUMBER 2028.01-E2 REV. C

REF. FILE 2090