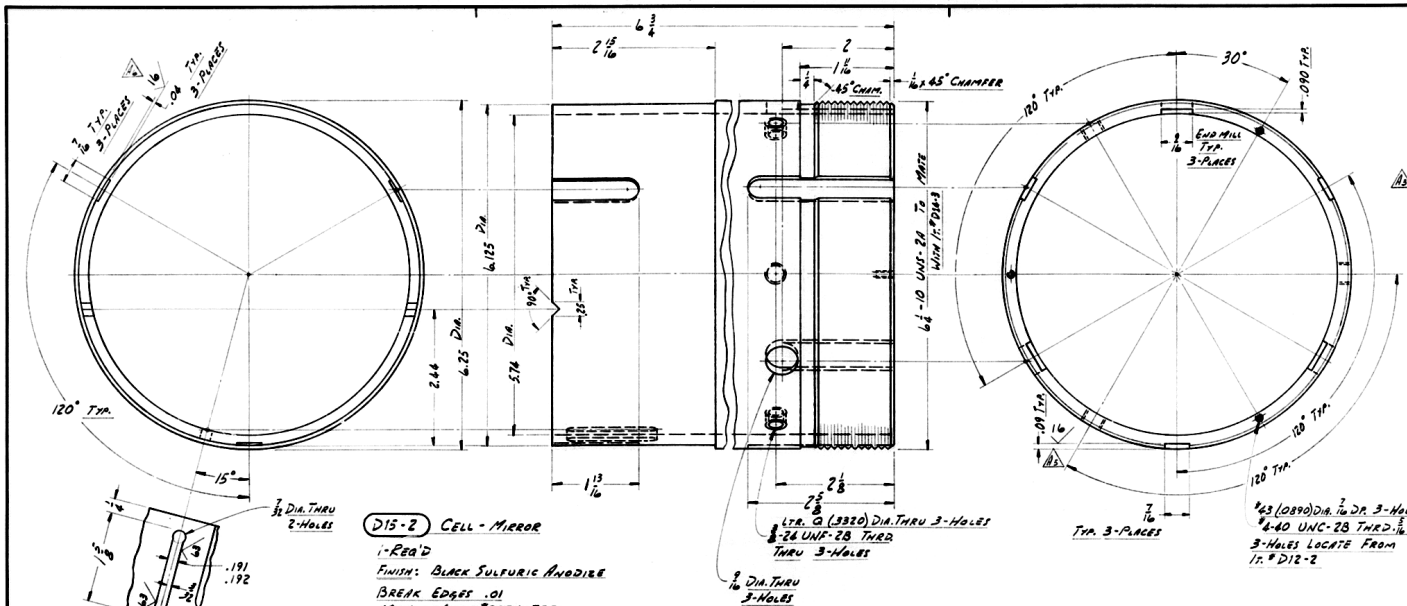
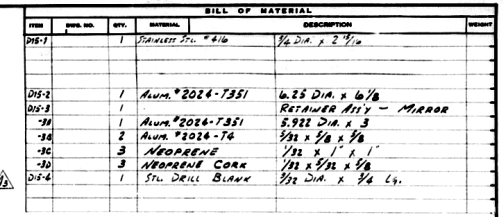




D15-2 CELL - MIRROR
1-REQ'D
FINISH: BLACK SULFURIC ANODIZE
BREAK EDGES .01
MAT'L: ALUM. #2024-T351

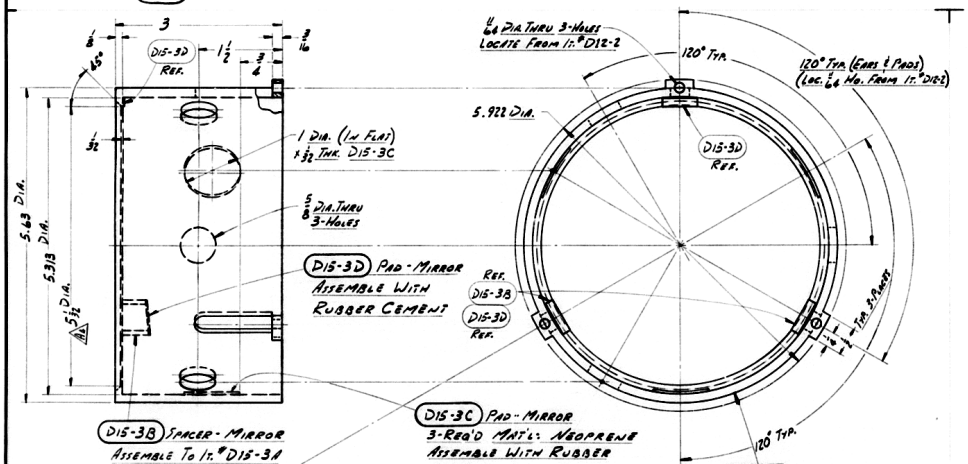


BILL OF MATERIAL

ITEM	DWG. NO.	QTY.	MATERIAL	DESCRIPTION	WEIGHT
D15-1		1	STAINLESS STL. #416	3/16 DIA. x 2 15/16	
D15-2		1	ALUM. #2024-T351	6.25 DIA. x 6 1/8	
D15-3		1		RETAINER ASS'Y - MIRROR	
-3A		1	ALUM. #2024-T351	5.922 DIA. x 3	
-3B		2	ALUM. #2024-T4	5/32 x 5/8 x 5/8	
-3C		3	NEOPRENE	1/32 x 1" x 1"	
-3D		3	NEOPRENE CORK	1/32 x 5/32 x 5/8	
D15-4		1	STL. DRILL BLANK	5/32 DIA. x 3/4 LG.	

NOTICE: UNLESS MATERIAL LISTED DO NOT INCLUDE STOCK ALLOWANCE FOR MACHINING AND CUTTING OFF EXCEPT AS NOTED. THE SIZE SPECIFIED THE MATERIAL REQUIRED IS ON FINISHED ONLY. QUANTITIES NOTED ARE THE TOTAL NUMBER REQUIRED.

D15-3D PAD - MIRROR
3-REQ'D
MAT'L: NEOPRENE CORK

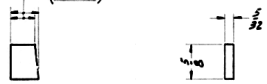


D15-3B SPACER - MIRROR
ASSEMBLE TO IT. #D15-3A WITH EASTMAN #910 CEMENT

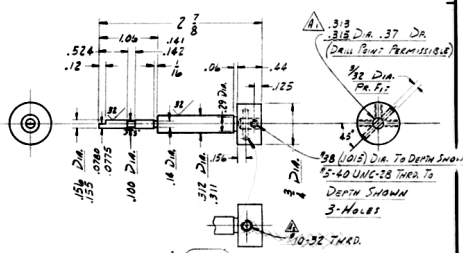
D15-3C PAD - MIRROR
3-REQ'D MAT'L: NEOPRENE
ASSEMBLE WITH RUBBER CEMENT

D15-3 RETAINER ASS'Y - MIRROR
1-REQ'D MAT'L: AS SHOWN

D15-3A RETAINER - MIRROR
1-REQ'D
MAT'L: ALUM. #2024-T351
BREAK EDGES .01
FINISH: BLACK SULFURIC ANODIZE



D15-3B SPACER - MIRROR
2-REQ'D
MAT'L: ALUM. #2024-T4
FINISH: BLACK SULFURIC ANODIZE
BREAK EDGES .01



D15-4 DRIVE PIN 1-REQ'D
MAT'L: DRILL BLANK

D15-1 DRIVE SHAFT 1-REQ'D
MAT'L: STAINLESS STEEL #416

BREAK EDGES .01 EXCEPT WHERE 'S' INDICATES A SHARP EDGE

EST. FILE 2020

FOR ASSEMBLY SEE 2028.01-E2

QUANT.	PRINT RECORD	DATE

TOLERANCES UNLESS OTHERWISE NOTED:
DECIMAL ±.05 ±.010 ±.005 ANGLES ± 1/4°
FRACTIONAL — FABRICATION: 10" TO 16" ± 1/16; 10" TO 50" ± 1/8; 50" & OVER ± .75 INCH/INCH. MACHINING: 10" TO 13" ± .010 ⊥; 13" TO 50" ± .020; 50" & OVER ± .040 ⊥ INCH/INCH.
MACHINED SURFACES ARE FINISHED TO 125 UNLESS OTHERWISE SPECIFIED.

NO.	REVISION	DATE	BY
A5	16 WAS 32 / A4 5/32 DIA WAS 5 DIA.		
A4	5/32 DIA WAS 5 DIA.		
A3	ADDED IT. #D15-4		
A2	#10-32 THRD. REM'D		
A1	3/16 DIA. WAS .188 / 1/8 DIA. WAS .130 DIA.		

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

84" TELESCOPE -- CASSEGRAIN SPECTROGRAPH

DRAWN	L.C. MARSHALL	3-20-62
TRACED	PETRI	2-19-63
APPROVED		
DATE		

NAME: DETAILS COLLIMATOR
SCALE: FULL
DWG. NUMBER: 2028.01-D15
REV: A