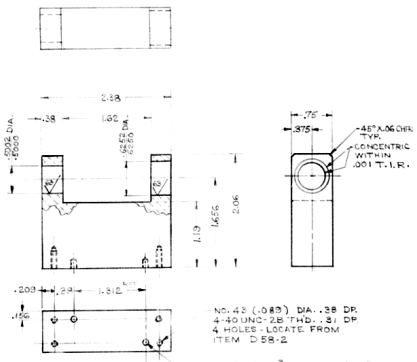
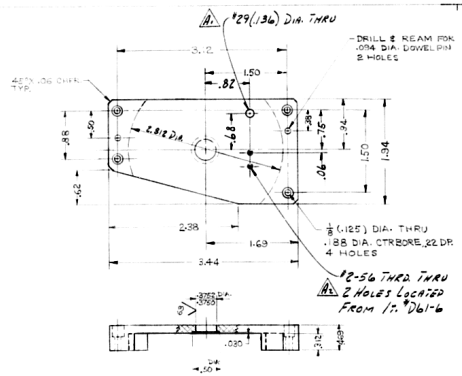
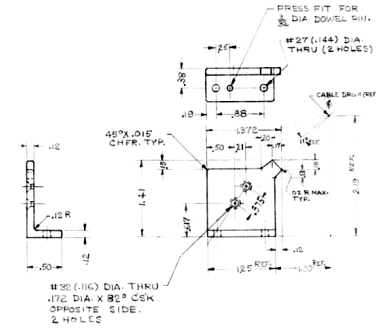


D59-1 WORM HOUSING
MAT'L.- 2024-T4 ALUMINUM - 1 REQ'D.
FINISH: BLACK SULFURIC ANODIZE
125/ FINISH ALL OVER, EXCEPT AS NOTED.
SCALE: FULL SIZE

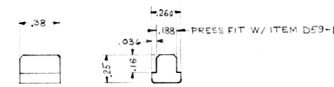


D59-2 HAND-WHEEL SUPPORT
MAT'L.- 2024-T4 ALUMINUM
1 REQ'D.
FINISH: BLACK SULFURIC ANODIZE
125/ FINISH ALL OVER, EXCEPT AS NOTED.
SCALE: FULL SIZE



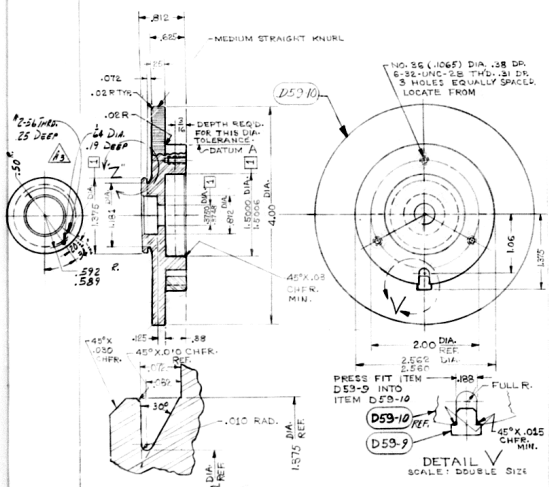
D59-3 LIMIT SWITCH BRACKET
MAT'L.- 2024-T4 ALUMINUM
1 REQ'D.
FINISH: BLACK SULFURIC ANODIZE
125/ FINISH ALL OVER
SCALE: FULL SIZE

BILL OF MATERIAL		NOTE! SIZES OF MATERIAL LISTED DO NOT INCLUDE STOCK ALLOWANCE FOR MACHINING AND CUTTING OFF, EXCEPT AS NOTED. THE SIZE SPECIFIED IS THE MATERIAL REQUIRED FOR ONE PIECE ONLY. QUANTITIES NOTED ARE THE TOTAL NUMBER REQUIRED.	
ITEM	QTY.	MATERIAL	DESCRIPTION
D59-1	1	2024-T4 ALUMINUM	.75 X 2.06 X 3.08
D59-2	1	2024-T4 ALUMINUM	.469 X 1.94 X 3.44
D59-3	1	2024-T4 ALUMINUM	.50 X 1.372 X 1.41
D59-4	1		HAND CONTROL WHEEL
D59-6	1	302 STAINLESS STEEL	3.0312 DIA. X .25
D59-7	1	303 STAINLESS STEEL	R.I.C. # A8-90 PRECISION GRD. SHAFTING 1/8 DIA. SHAFT SIZE X 3.00 LG.
D59-8	1	302 STAINLESS STEEL	R.I.C. # B6-13 PRECISION SHAFT SPACER 3/8" SHAFT, .250 LG.
D59-9	1	416 STAINLESS STEEL	.25 X .260 X .88
D59-10	1	416 STAINLESS STEEL	.812 X 4.00 X 4.00
D59-11	1	ALUM. ALLOY #2024-T6	1/4 X 1.68 X 1.75



D59-9 LIMIT SWITCH ACTUATOR
MAT'L. 416 STAINLESS STEEL - 1 REQ'D.
FINISH: OPTICAL BLACK CHEMICALLY
125/ FINISH ALL OVER
SCALE: DOUBLE SIZE

NOTE: DIAMETERS MARKED I TO BE CONCENTRIC TO DATUM A WITHIN .001 T.I.R.



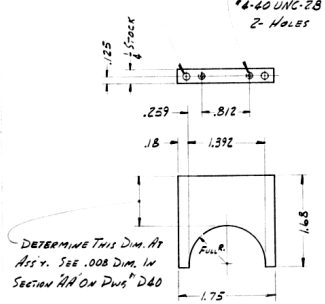
DETAIL Z
SCALE - 10 TIMES SIZE

DETAIL V
SCALE: DOUBLE SIZE

D59-4 HAND CONTROL WHEEL
MAT'L. 416 STAINLESS STEEL - 1 REQ'D.
FINISH: OPTICAL BLACK CHEMICALLY
125/ FINISH ALL OVER
SCALE: FULL SIZE & NOTED

-SL. FIT FOR 1/8 DIA. DOWEL PIN
2 HOLES .62 DEEP
LOCATE FROM I.T. "D58-1

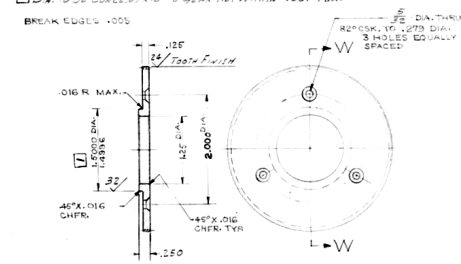
#43(.089) DIA. .50 DEEP
#4-40 UNC-2B THRD. .38 DEEP
2- HOLES



DETERMINE THIS DIM. AT ASS'Y. SEE .008 DIM. IN SECTION AA ON DWG. "D40

D59-11 CABLE RETAINER
No. REQ'D: 1
MAT'L: ALUM. ALLOY #2024-T4
BLACK SULFURIC ANODIZE
125/ FINISH ALL OVER

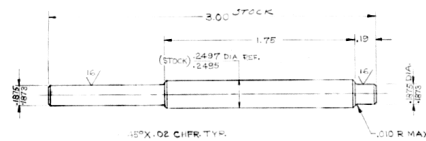
I D.A. TO BE CONCENTRIC TO GEAR P.D. WITHIN .001 T.I.R.



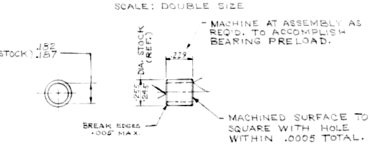
SECTION W-W
NOTE: MAKE TO A.G.M.A. PRECISION No. 3 SPECIFICATIONS.

D59-6 CABLE DRIVE SPUR GEAR
MAT'L. TYPE 302 STAINLESS STEEL - 1 REQ'D.
FINISH: PASSIVATE AFTER GEAR CUTTING
THEN, OPTICAL BLACK, CHEMICALLY
125/ FINISH ALL OVER EXCEPT AS NOTED OTHERWISE.
SCALE: FULL SIZE

GEAR DATA:
3.0000 PITCH DIAM
64 DIAMETRAL PITCH
192 TEETH
3.0312 O.D.
20° PRESSURE ANGLE
.156 FACE WIDTH
32/ SURFACE FINISH OF TEETH



D59-7 WORM-GEAR SHAFT
MAT'L.- R.I.C. No. A8-90 PREC. GRD. SHAFTING - 1 REQ'D.
SCALE: DOUBLE SIZE



D59-8 PRELOAD SPACER
MAT'L. R.I.C. No. B6-13 - 3/8 SHAFT SPACER
303 STA. STL. - 1 REQ'D.
SCALE: DOUBLE SIZE

A3	ADDED #2-56 THRD. .25 DEEP						
A2	ADDED #2-56 THRD. 2-HOLES						
A1	ADDED #29 DIA. THRU	9 MAY 62	PETA				
QUANT.	PRINT RECORD	DATE	NO.	REVISION	DATE	BY	

TOLERANCES UNLESS OTHERWISE NOTED.
FRACTIONAL
FABRICATION
UP TO 10" ± 1/16"
10" TO 80" ± 1/8"
80" & OVER ± 1/4%
MACHINING
UP TO 10" ± .010
10" TO 80" ± .020
80" & OVER ± .050
DECIMAL ANGLES
0.000 ± .010 ± 0°-15'
0.00 ± .020
UNLESS OTHERWISE NOTED
SURFACES MARKED √ TO HAVE √ FINISH

FOR ASSEMBLY SEE DWG. NO. 2028.01 D-40

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

84-INCH TELESCOPE CASSEGRAIN SPECTROGRAPH

NAME: SKYLIGHT SUPPRESSOR DRIVE DETAILS
SCALE: FULL & DOUBLE
PRINT ISSUED

DESIGNED BY	DATE	DRAWN BY	DATE	TRACED BY	DATE	CHECKED BY	DATE	DRAWING NUMBER	REV.
LAC MACKRILL	4-3-62	LAC	4-3-62					2028.01-D59	A
APPROVED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE		
R.N. WILSON	5-14-62								
DESIGNED BY	DATE	DRAWN BY	DATE	TRACED BY	DATE	CHECKED BY	DATE		
	5-14-62								

USE 2090