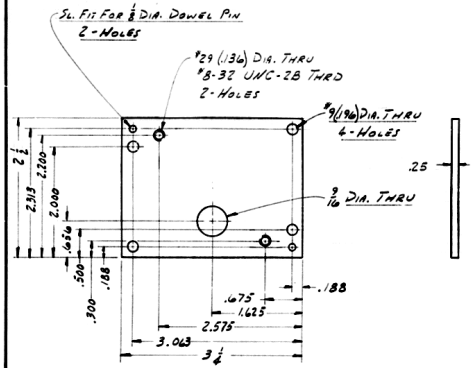
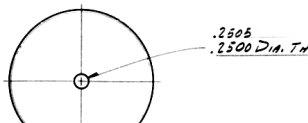
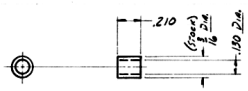


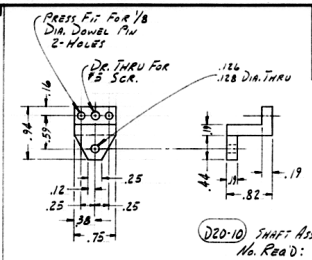
D20-1 Plate -- Motor Mounting
No. Req'd: 1
Mat'l: Transite (Hard Asbestos)
Paint: Flat Black



D20-2 Gear
No. Req'd: 1
Mat'l: "Pic" #H25-80 (Alter As Shown)



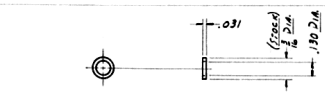
D-20-3 Spacer
No. Req'd: 1
Mat'l: Brass Alloy #271
Finish: Black Sulfuric Anodize
Scale: 2 x Size



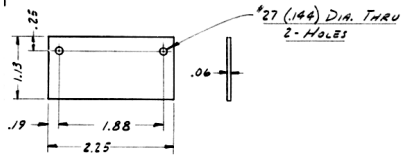
D20-10 Shaft Ass'y Guide
No. Req'd: 1
Mat'l: Alum Alloy #2024-T4
Black Sulfuric Anodize

ITEM	DWG. NO.	QTY.	MATERIAL	DESCRIPTION	WEIGHT
D20-1		1	Transite (Hard Asbestos)	.25 x 2 1/4 x 3 1/4	
-2		1	#303 Stn. Less Steel	Spur Gear 80 Teeth, 2.5 D.P., 20° P.A., 32 Pitch,	
3		1	Brass Alloy #271	3/16 Dia. x .210	
4		1	Brass Alloy #271	3/16 Dia. x .031	
5		1	Plexiglass	1/16 x 1.13 x 2.25	
6		1	Insco Model #00145	Step Function Speed Reducer	
7		1	#303 Stn. Less Steel	Precision Ground Shafting #A1-16 (1/2 x 1.62)	
8		1		.376 Dia. x 8.75	
9		1		Plate-Clutch	
9A		1	Alum. Alloy #2024-T4	1/8 Thk. x 1 9/16 Dia.	
9B		1	Cork	.062 Thk. x 1 9/16 Dia.	
10		1	Alum. Alloy #2024-T4	.75 x .82 x .94	

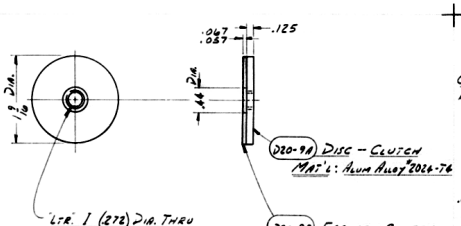
NOTE: SIZES OF MATERIAL LISTED DO NOT INCLUDE STOCK ALLOWANCE FOR MACHINING AND CUTTING-OFF EXCEPT AS NOTED. THE SIZE SPECIFIED THE MATERIAL REQUIRED FOR ONE PIECE ONLY. QUANTITIES NOTED ARE THE TOTAL NUMBER REQUIRED.



D-20-4 Spacer
No. Req'd: 1
Mat'l: Brass Alloy #271
Finish: Black Sulfuric Anodize
Scale: 2 x Size

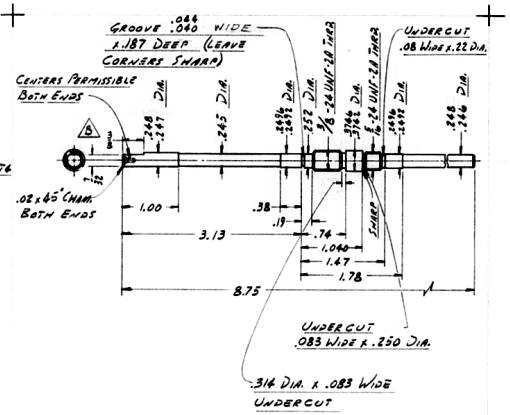


D-20-5 Window
No. Req'd: 1
Mat'l: Plexiglass

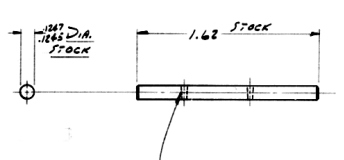


D20-9A Disc - Clutch
Mat'l: Alum Alloy #2026-T6

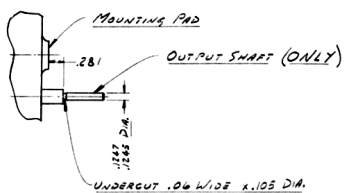
D20-9B Facing -- Clutch
Mat'l: Cork



D20-8 Shaft
No. Req'd: 1
Mat'l: Stainless Steel Typ. 303



D20-7 Shaft
No. Req'd: 1
Mat'l: Pic #A1-16 Precision Gr. Shafting
(Alter As Shown)



D20-6 Speed Reducer
No. Req'd: 1
Mat'l: Insco Step Function Speed Reducer
Model #00145 (Alter As Shown)

D20-9 Plate -- Clutch
No. Req'd: 1
Note: Assemble With Cement

Remove All Burrs & Sharp Edges Unless Otherwise Specified

Tolerances Unless Otherwise Noted.
Decimal: 00.00 ±.010, 00.000 ±.003; Angles ± 1/4°
Fractional — Fabrication: Up to 10" ± 1/16; 10" to 50" ± 1/8; 50" & over ± 3%
Machining: Up to 10" .015; 10" to 50" .030; 50" & over .060 per inch
Machined surfaces are finished to ▽▽ unless otherwise specified.

NO.	REVISION	BY	DATE
B	Added 3/32 x 3/8 Flat	G. Mayer	6 Mar 63
A	Added Item #D20-10	P. Hill	7 Oct 62

QUANT.	PRINT RECORD	DATE

For Assembly See: 2028.01-D9

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

Tolerances Unless Noted	Designed By	Date
Decimal 00.00 ±.010, 00.000 ±.003; Fractional ± 1/16; Angles ± 1/2°	C.C. Marshall	10-30-62
	Drawn By	Date
	Petri	7-16-63
	Approved By	Date
		5-17-64

Name: Details Grating Drive
Scale: Full
Dwg. Number: 2028.01-D20
Rev: B

Ref. File 2090