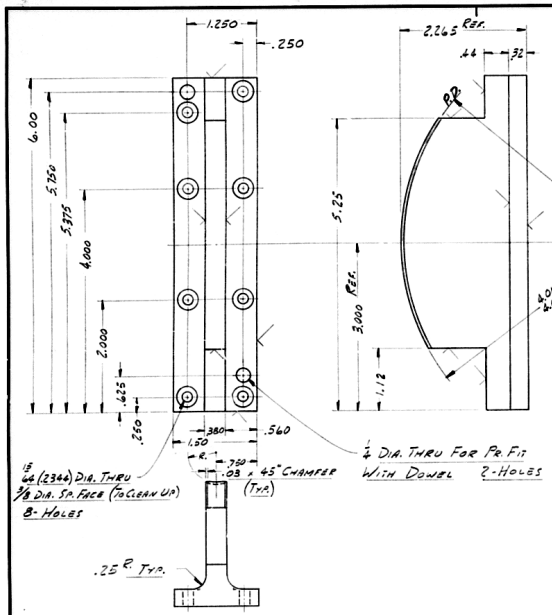
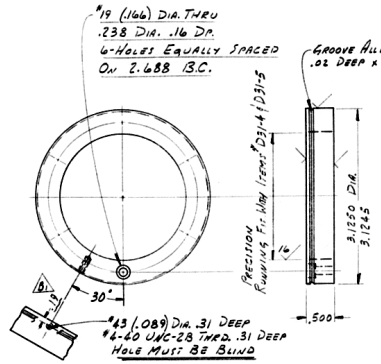
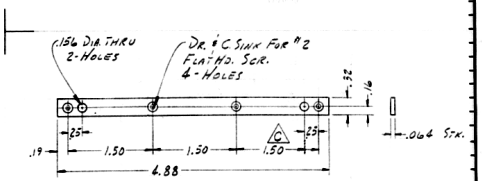


Gear Tooth Data

Circular Pitch	.03
Pitch Dia.	8.000
Lead Angle	.5°
Pressure Angle	20°
Pitch Dia. Of Mating Worm *D48-2	1.0937
Hand	Right
Tolerance Class	AGMA Prec. 3





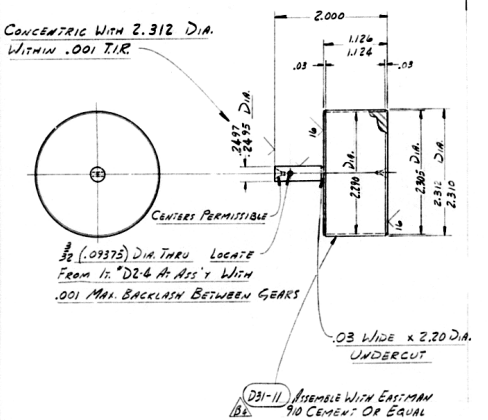
D31-2 Bearing
No. Req'd: 2
Mat'l: Stainless Steel Type 416 Cond. "A"
Optical Black Chemically Except 2.250 Dia.

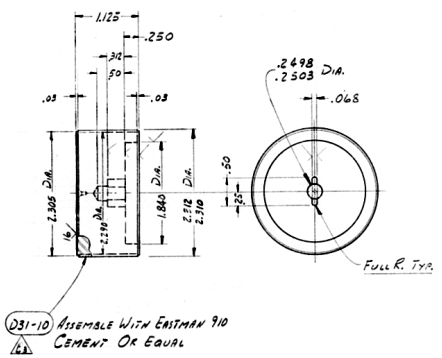
D31-3 Worm Gear
No. Req'd: 1
Mat'l: Hard Bronze Casting, SAE. Std. #62
Make From A Cast Bar 2" x 2 3/8" x 6 1/2"
Optical Black Chemically

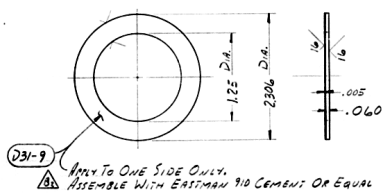
D31-8 Filler Strip
No. Req'd: 1
Mat'l: Phosphor Bronze Alloy #351
Optical Black Chemically

ITEM	DWG. NO.	QTY.	MATERIAL	DESCRIPTION	WEIGHT
D31-2		2	Stn. Stl. Typ. 416 Cond. A	3.1250 Dia. x .500 Thk.	
	3	1	Naval Brass Alloy #464	1.50 x 2.265 x 6.00	
	4	1	Stn. Stl. Typ. 416 Cond. A	2.305 Dia. x 2.000 Lg.	
	5	1	Stn. Stl. Typ. 416 Cond. A	2.305 Dia. x 1.125 Lg.	
	6	3	Stn. Stl. Typ. 416 Cond. A	2.306 Dia. x .060 Lg.	
	7	1	Stn. Stl. Typ. 416 Cond. A	1.804 Dia. x .25 Thk.	
A1	8	1	Phos. Bronze Alloy #351	.066 x .52 x 6.88	
B2	9	3	Etched Teflon Sheet	.005 x 2.306 Dia.	
B3	10	1	Etched Teflon Sheet	.011 x 1.066 x 7.312	
B4	11	1	Etched Teflon Sheet	.011 x 1.065 x 7.312	

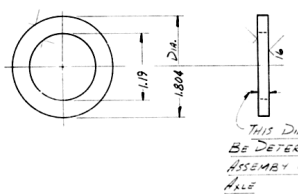
NOTE: SIZES OF MATERIAL LISTED DO NOT ENTIRELY SPECIFY ALLOWANCES FOR MACHINING AND FINISHING BUT ARE GIVEN AS NOTED IN THE SIZE SPECIFIED. THE NUMBER OF PIECES REQUIRED FOR ONE FINISHED ASSEMBLY ARE THE TOTAL NUMBER REQUIRED.







D31-6 Thrust Washer
No. Req'd: 3
Mat'l: Stainless Steel Type 416 Cond. "A"



D31-7 Thrust Washer
No. Req'd: 1
Mat'l: Stainless Steel Type 416 Cond. "A"

D31-4 Axle B2
No. Req'd: 1
Mat'l: Stainless Steel Typ. 416 Cond. "A"
Optical Black Chemically Except Surfaces Marked Thus

D31-5 Axle B2
No. Req'd: 1
Mat'l: Stainless Steel Typ. 416 Cond. "A"
Optical Black Chemically Except Surfaces Marked Thus

Remove All Burrs & Sharp Edges Unless Otherwise Specified

QUANT.	PRINT RECORD	DATE	NO.	REVISION	DATE	BY
			C	1.50 Dim. Was To .156 Hole	11 APR 63	P
			B6	Ir. D31-5 Revised -- See Record Storage		G.K.
				Print Of Revision "A" For Old Design		
			B5	Ir. D31-4 Revised -- See Record		
				Storage Print Of Rev. "A" For Old Design		
			B4	Added Ir. D31-10 & Added Ir. D31-11		
			B3	.19 Dim. Was .09 & B2 Added Ir. "D31-9		
			A2	Added Item "D31-8		
			A1	Added Tolerance Class: AGMA		
				Prec. 3	8 MAR 63	PETRI

TOLERANCES UNLESS OTHERWISE NOTED: DECIMAL ±.010 ±.005 ±.002 ANGLES ± 1/4° FRACTIONAL ± 1/64 MACHINING UP TO 10" ± .015; 10" TO 60" ± .030; 60" & OVER ± .060; .001"/INCH ± .002"/INCH. MACHINED SURFACES ARE FINISHED TO 125 UNLESS OTHERWISE SPECIFIED.

For Next Ass'y See 2028.01-D2 & D8

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

Name	Grating Cell Holder & Axle Details
Designed By	A.C. Whitehill
Date	8 Mar 1963
Drawn By	Petri
Approved By	Ted Dunham
Date	11 Mar 63
Scale	Full
Dwg. Number	2028.01-D31
Rev.	C

Ref. Ltr. 2090

Distance Post Calibration

0 1 2 3 4 5 6 7 8 9 10