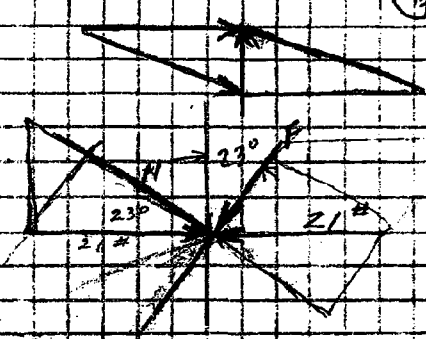
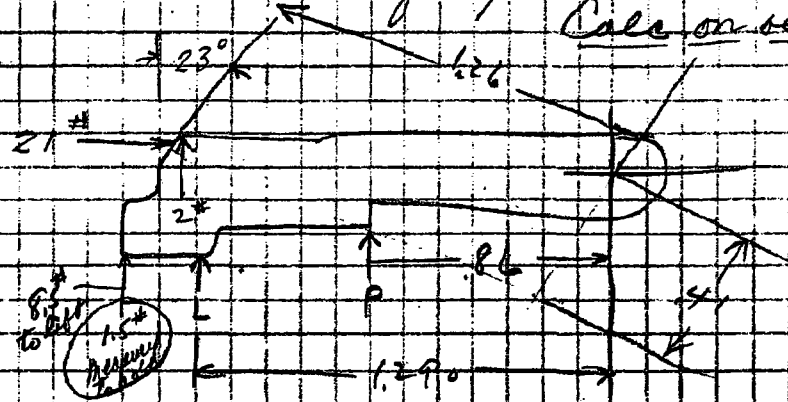


DATE: 12-20-44

SUBJECT OF EXPT. New Gear & Safety

Calc on old gear



to 1.5 in dust chamber
F = 1.5 * 11.5 = 17.25

NORMAL FORCE = $N = 21 (\cos 23^\circ) = 21(.92)$
 $N = 19.3$

MOMENTS ABOUT O Neglecting F

$2(1.29) + P(8.6) = 22.8(.41)$

$P(8.6) = 9.35 - 2.58$

$P = \frac{6.77}{8.6} = .787$

$L = \frac{6.77}{1.29} = 5.25$

$\cos 23^\circ = .920 = \frac{21}{N}$
 $N = 22.8$

$F = NF$
 $= 19.3(.41)$
 $= 7.91$

USING MEASURED FORCES

$1.5(1.5) = P(8.6)$

$P = 21.0$

$L = 1.75$

MOMENTS TO FIND F

$1.5(1.5) + 2(1.29) + P(1.26) = 22.8(.41)$

$F(1.26) = 9.35 - 2.25 - 2.58$

$F = \frac{4.52}{1.26} = 3.59$

$\frac{F}{N} = \frac{3.59}{19.3} = .186$

22.8
2.25
2.58
19.3
1.5
1.29
1.26
1.5
1.29
1.26

EXPERIMENTER
WITNESS

DATE
DATE