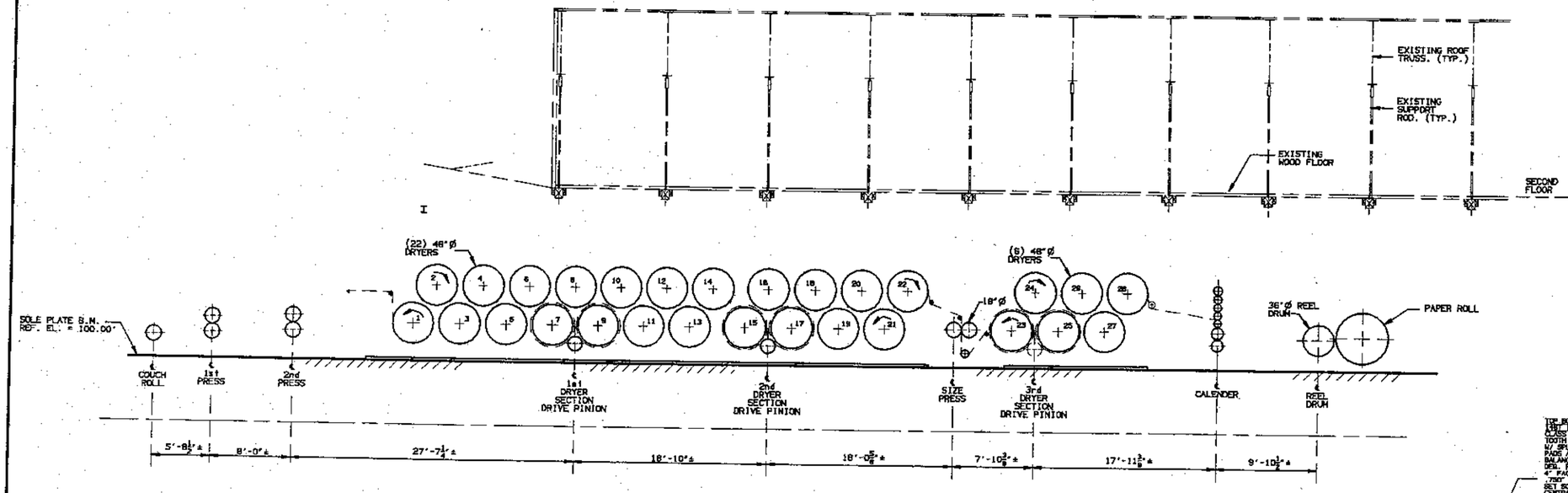
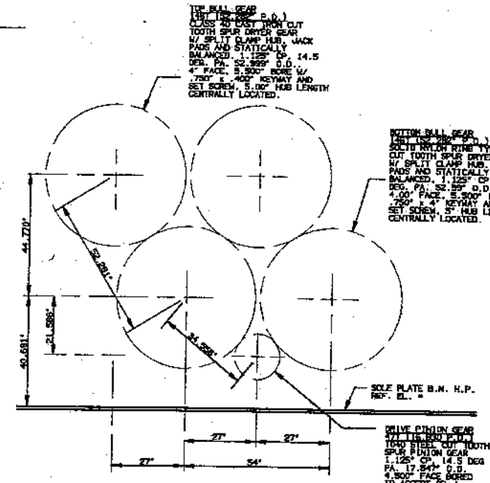


PROPOSED NO. 1 P.M. DRIVE SIDE ELEVATION

3/16" = 1'-0"



DRYER SECTION GEAR DRIVE DATA

NOTE: ALL GEARS BY LANTON OF DEPERE, WI 1/2" = 1'-0"

#1 PAPER MACHINE LINESHAFT & DRIVE DESIGN DATA

MACHINE SPEED = 600 F.P.M. (MAX.) - MAIN LINESHAFT = 400 R.P.M. (MAX.) - MAIN DRIVE REQUIRES H.P. =

	COUCH	1st PRESS	2nd PRESS	1st DRYER SECT.	2nd DRYER SECT.	SIZE PRESS	3rd DRYER SECT.	CALENDER	REEL
DRIVEN ROLL	16"Ø x 96" DRILLED FACE (4.712' CIRC.) 600 FPM/4.712' = 127.3 R.P.M. -4% DRAW (576 F.P.M.) = 122.23 R.P.M.	17½" MEAN Ø x 814" FACE (4.8489' CIRC.) 600 FPM/4.8489' = 123.717 R.P.M. -2½% DRAW (585 F.P.M.) = 125.889 R.P.M.	17½" MEAN Ø x 814" FACE (4.8489' CIRC.) 600 FPM/4.8489' = 123.717 R.P.M. -1% DRAW (594 F.P.M.) = 127.828 R.P.M.	((4) 48"Ø x 94½" FACE DRYERS (12.39837' CIRC.) 600 FPM/12.39837'= 47.74 RPM BULL GEAR = 1481 PINION GEAR = 427T RATIO = 3.106:1 PINION R.P.M. = 148.32	(6) 48"Ø x 94½" FACE DRYERS (12.39837' CIRC.) 600 FPM/12.39837'= 47.74 RPM BULL GEAR = 1481 PINION GEAR = 427T RATIO = 3.106:1 PINION R.P.M. = 148.32	17½" MEAN Ø x 89" FACE (4.598' CIRC.) 600 FPM/4.598' = 130.491 RPM PINION GEAR = 427T RATIO = 3.106:1 PINION R.P.M. = 148.32	(6) 48"Ø x 94½" FACE DRYERS (12.39837' CIRC.) 600 FPM/12.39837'= 47.74 RPM BULL GEAR = 1481 PINION GEAR = 427T RATIO = 3.106:1 PINION R.P.M. = 148.32	14"Ø x 89" FACE (3.965' CIRC.) 600 FPM/3.965' = 153.71 RPM +1% DRAW (606 F.P.M.) = 155.239 R.P.M.	36"Ø x 93¼" FACE (9.424' CIRC.) 600 FPM/9.424' = 63.66 RPM +1% DRAW (600 F.P.M.) = 64.296 R.P.M.
POWER REQUIREMENTS N.R.L. / R.D.C.	37.1 H.P. / 98.0 H.P.	15.84 H.P. / 21.12 H.P.	15.84 H.P. / 21.12 H.P.	9.500 HP / 16.625 HP	5.428 HP / 9.50 HP	10.56 HP / 15.205 HP	5.428 HP / 9.50 HP	21.12 HP / 35.64 HP	4.46 HP / 7.69 HP
RIGHT ANGLE GEARBOX MODEL	FALK 2090GHB1-K ASS'Y N.O. 92-088060	RICE BARTON	RICE BARTON	RICE BARTON	RICE BARTON	FALK 2070GHB1 ASS'Y # K.O.	RICE BARTON	FARRELL GEAR BOX 1.29:1 RATIO EXISTING GEAR BOX (RICE BARTON) 4.666:1 RATIO	CONE DRIVE GEARS MODEL W-7007SC-A ASS'Y #
RATIO N.H.P. RATING-S.F.	5.059:1 S.F. 1.91	4.666:1 ----	4.666:1 ----	4.666:1 ----	4.666:1 ----	5.063:1 ----	4.666:1 ----	(-1.29:1) & (-4.666:1) ----	7.5:1
LOW SPEED SHAFT / HIGH SPEED SHAFT	122.23 R.P.M. / 618.356 R.P.M.	125.886 R.P.M. / 580.168 R.P.M.	127.826 R.P.M. / 599.248 R.P.M.	148.32 R.P.M. / 695.324 R.P.M.	148.32 R.P.M. / 695.324 R.P.M.	129.11 RPM / 656.30 R.P.M.	148.32 R.P.M. / 695.324 R.P.M.	129.170 R.P.M. / 600.860 R.P.M.	84.298 R.P.M. / 482.835 R.P.M.
H/S SHAFT TO LINESHAFT RATIO	0.6488:1	0.6777:1	0.6673:1	0.5752:1	0.5752:1	0.6094:1	0.5752:1	0.6657:1	0.82947:1
INSHAFT DATA									
DRIVEN CONE PULLEY	(NEW) 28.225"Ø x 24.225"Ø 29.225" MEAN DIA. 24" FACE 3⅞"Ø BORE	(EXISTING) 30.8125"Ø x 28.9375"Ø 29.875" MEAN DIA. 28" FACE "Ø BORE	(NEW) 31.250"Ø x 28.750"Ø 30.000" MEAN DIA. 30" FACE 3¾"Ø BORE	(EXISTING) 31.125"Ø x 28.875"Ø 30.000" MEAN DIA. 30" FACE "Ø BORE	(EXISTING) 31.125"Ø x 28.875"Ø 30.000" MEAN DIA. 30" FACE "Ø BORE	(NEW) 20.250"Ø x 17.750"Ø 19.000" MEAN DIA. 30" FACE 2⅞"Ø BORE	(EXISTING) 31.125"Ø x 28.875"Ø 30.000" MEAN DIA. 30" FACE "Ø BORE	(EXISTING) 31.125"Ø x 28.125"Ø 30.125" MEAN DIA. 30" FACE "Ø BORE	(EXISTING) 41.187"Ø x 39.187"Ø 40.187" MEAN DIA. 24" FACE "Ø BORE
DRIVE CLUTCH	EXISTING AIR CLUTCH	NEW AIR FLEX SIZE #12003350 FORM CB-405 CLOSE MOUNTED SPIDER BORE DRUM HUB BORE	EXISTING AIR CLUTCH	EXISTING AIR CLUTCH	EXISTING AIR CLUTCH	NEW AIR FLEX SIZE #12003350 FORM CB-404 GAP MOUNTED SPIDER BORE 2⅞" DRUM HUB BORE 2"Ø	EXISTING AIR CLUTCH	NEW AIR FLEX SIZE #12003350 FORM CB-405 CLOSE MOUNTED SPIDER BORE DRUM HUB BORE	EXISTING AIR CLUTCH
DRIVE (LINESHAFT) CONE PULLEY	(NEW) 40.000"Ø x 36.000"Ø 39.000" MEAN DIA. 24" FACE 3⅞"Ø BORE	(NEW) 45.208"Ø x 42.958"Ø 44.083" MEAN DIA. 30" FACE 3⅞"Ø BORE	(NEW) 46.194"Ø x 43.894"Ø 44.944" MEAN DIA. 30" FACE 3⅞"Ø BORE	(NEW) 53.280"Ø x 51.030"Ø 52.155" MEAN DIA. 30" FACE 3⅞"Ø BORE	(NEW) 53.280"Ø x 51.030"Ø 52.155" MEAN DIA. 30" FACE 3⅞"Ø BORE	(NEW) 32.428"Ø x 29.928"Ø 31.178" MEAN DIA. 30" FACE 3⅞"Ø BORE	(NEW) 53.280"Ø x 51.030"Ø 52.155" MEAN DIA. 30" FACE 3⅞"Ø BORE	(NEW) 46.063"Ø x 44.063"Ø 45.063" MEAN DIA. 30" FACE 3⅞"Ø BORE	(NEW) 48.497"Ø x 47.449"Ø 48.448" MEAN DIA. 24" FACE 3⅞"Ø BORE
DRIVE SHAFT BEARINGS									
LINESHAFT BEARINGS	----	----	----	----	----	----	----	----	----

REV.	DESCRIPTION	DATE	BY

POTASH-DELMOLINO-DAVIS INC.
Industrial Design Services
Dalton, Mass. 01226

RISING PAPER COMPANY
HOUSATONIC, MA 01236

NO. 1 P.M. DRYER SECTION MODIFICATIONS

SCALE AS NOTED | DRAWN BY MTK | CHK'D BY CFP

PROPOSED D.S. ELEVATION AND DESIGN DATA

DATE 06-27-95 | SHEET NO. 15 | DRAWING NUMBER 94-643-D1 | REV.