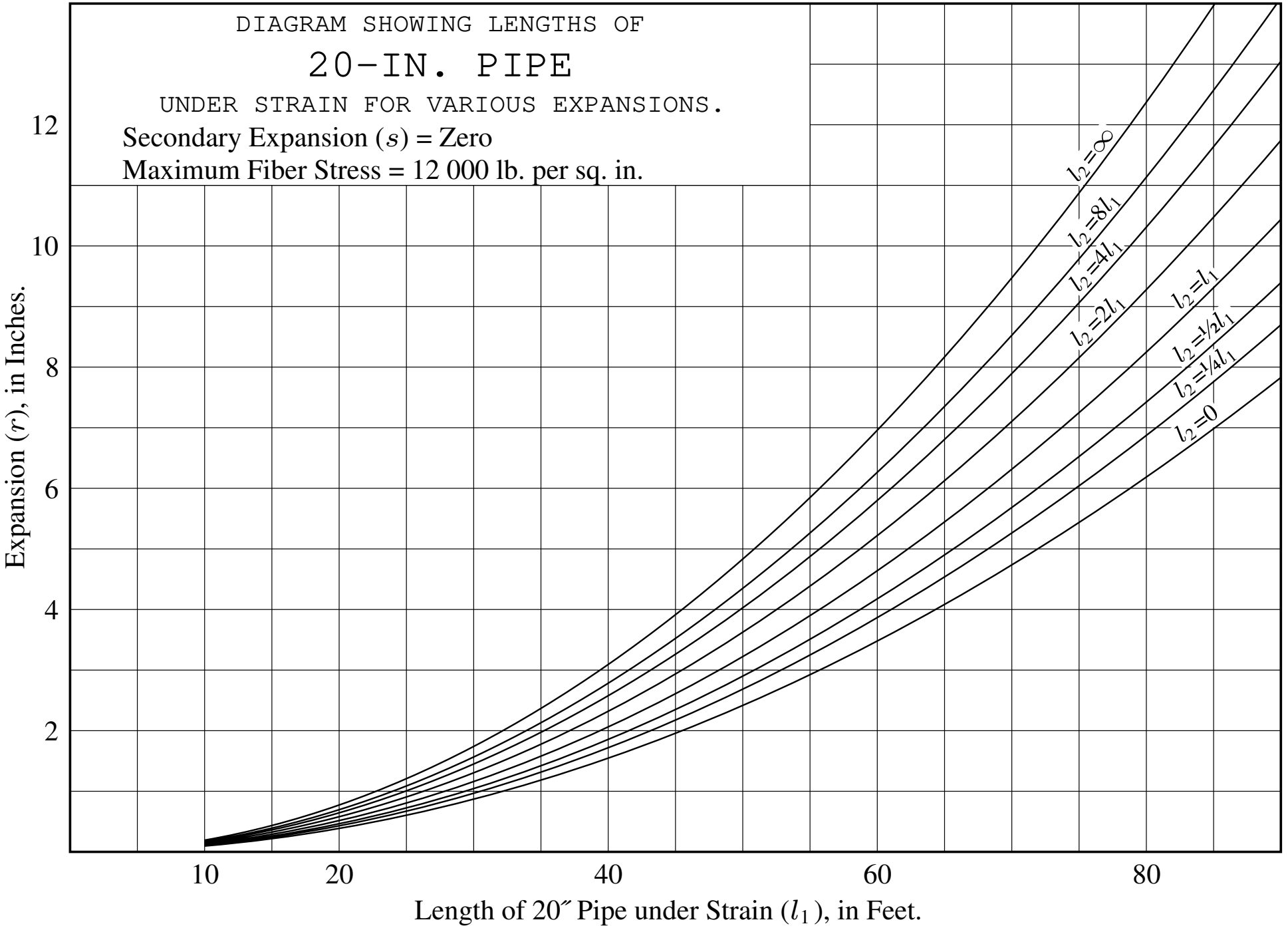
DIAGRAM SHOWING LENGTHS OF
20-IN. PIPE
UNDER STRAIN FOR VARIOUS EXPANSIONS.
Secondary Expansion (s) = Zero
Maximum Fiber Stress = 12 000 lb. per sq. in.
$l_2=\infty$
$l_2=8l_1$
$l_2=4l_1$
$l_2=2l_1$
$l_2=l_1$
$l_2=\frac{1}{2}l_1$
$l_2=\frac{1}{4}l_1$
$l_2=0$
Expansion (r), in Inches.
2
4
6
8
10
12
10
20
40
60
80
Length of 20″ Pipe under Strain (l_1), in Feet.