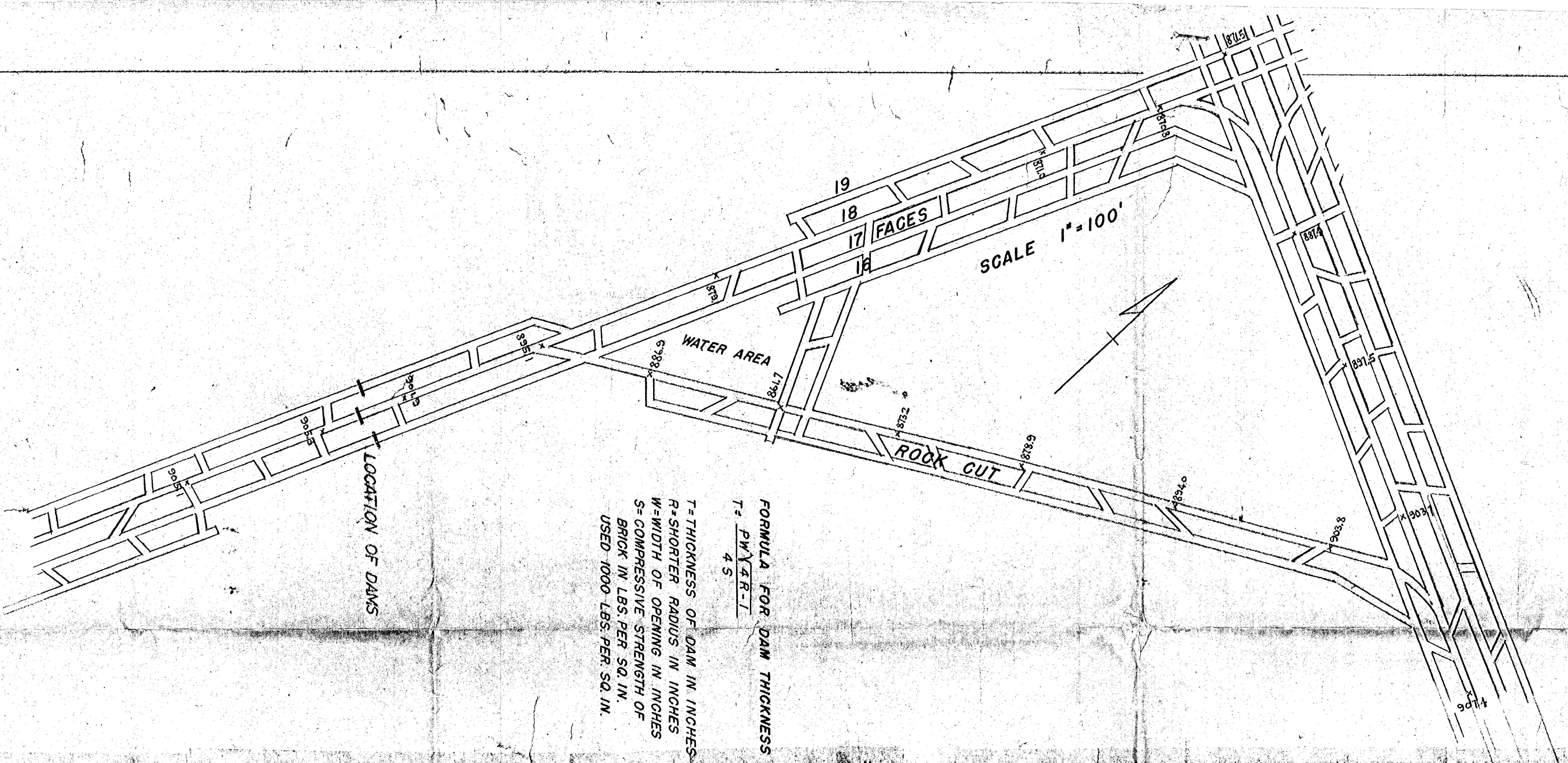
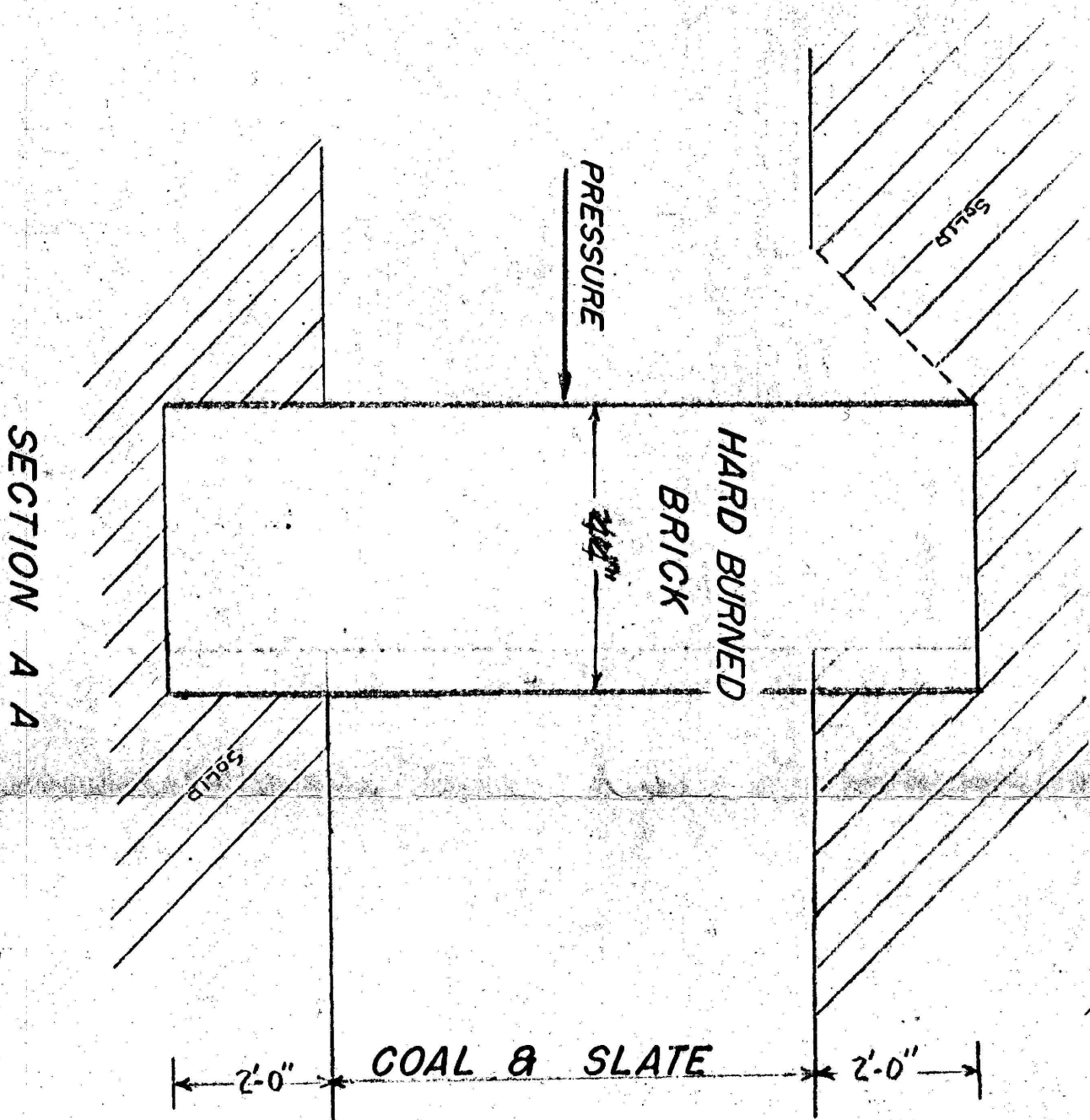
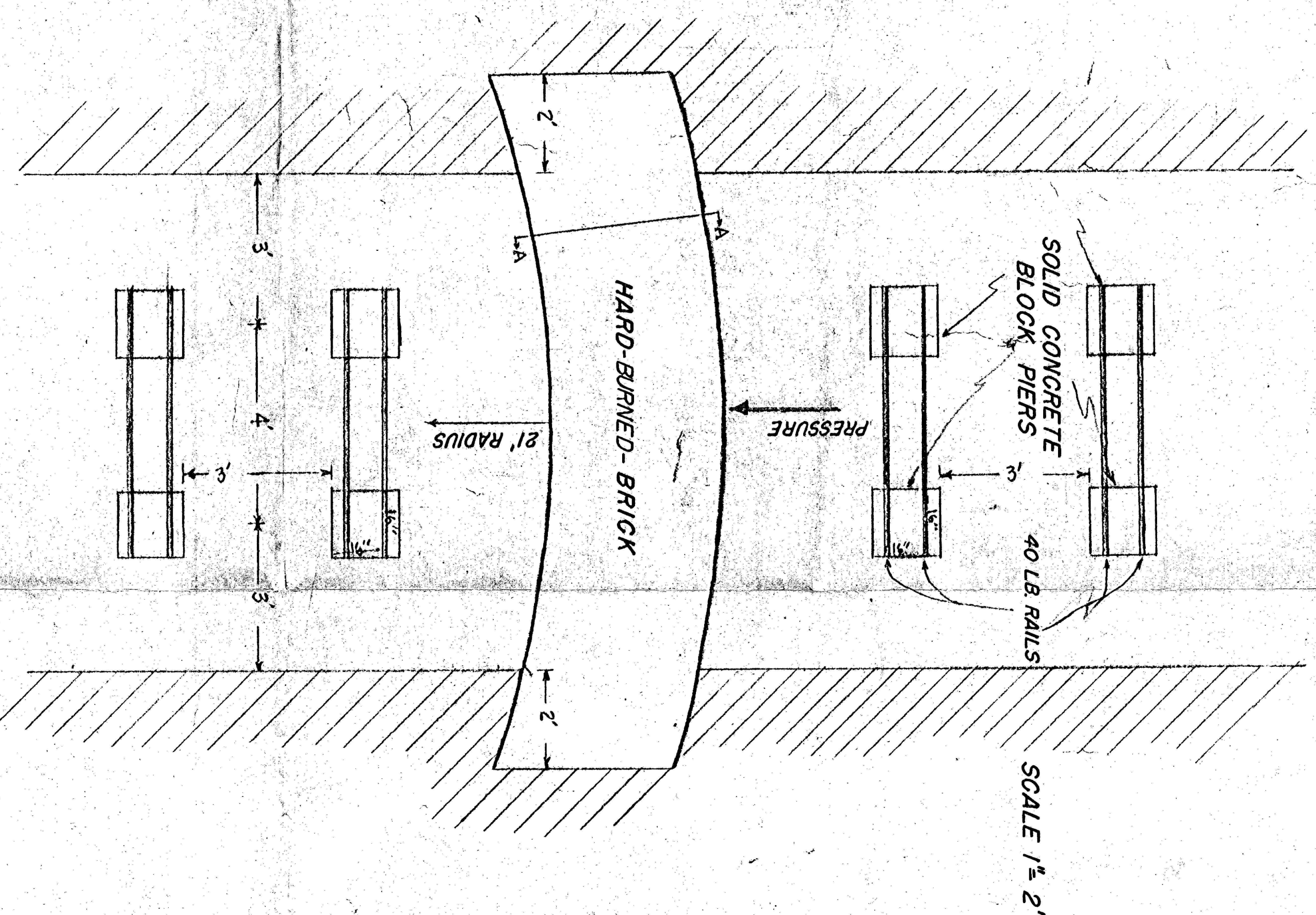




FORMULA FOR DAM THICKNESS

$$T = \frac{P W \sqrt{R-1}}{4 S}$$

T = THICKNESS OF DAM IN INCHES
 R = SHORTER RADIUS IN INCHES
 W = WIDTH OF OPENING IN INCHES
 S = COMPRESSIVE STRENGTH OF BRICK IN LBS. PER SQ. IN.
 USED 1000 LBS. PER SQ. IN.



PITTSBURGH COAL CO.
 MONTGOMERY 10 MINE

PROPOSED BULKHEADS IN 16, 17, 18, 19 FACES.

MAY 1952

SCALE AS NOTED