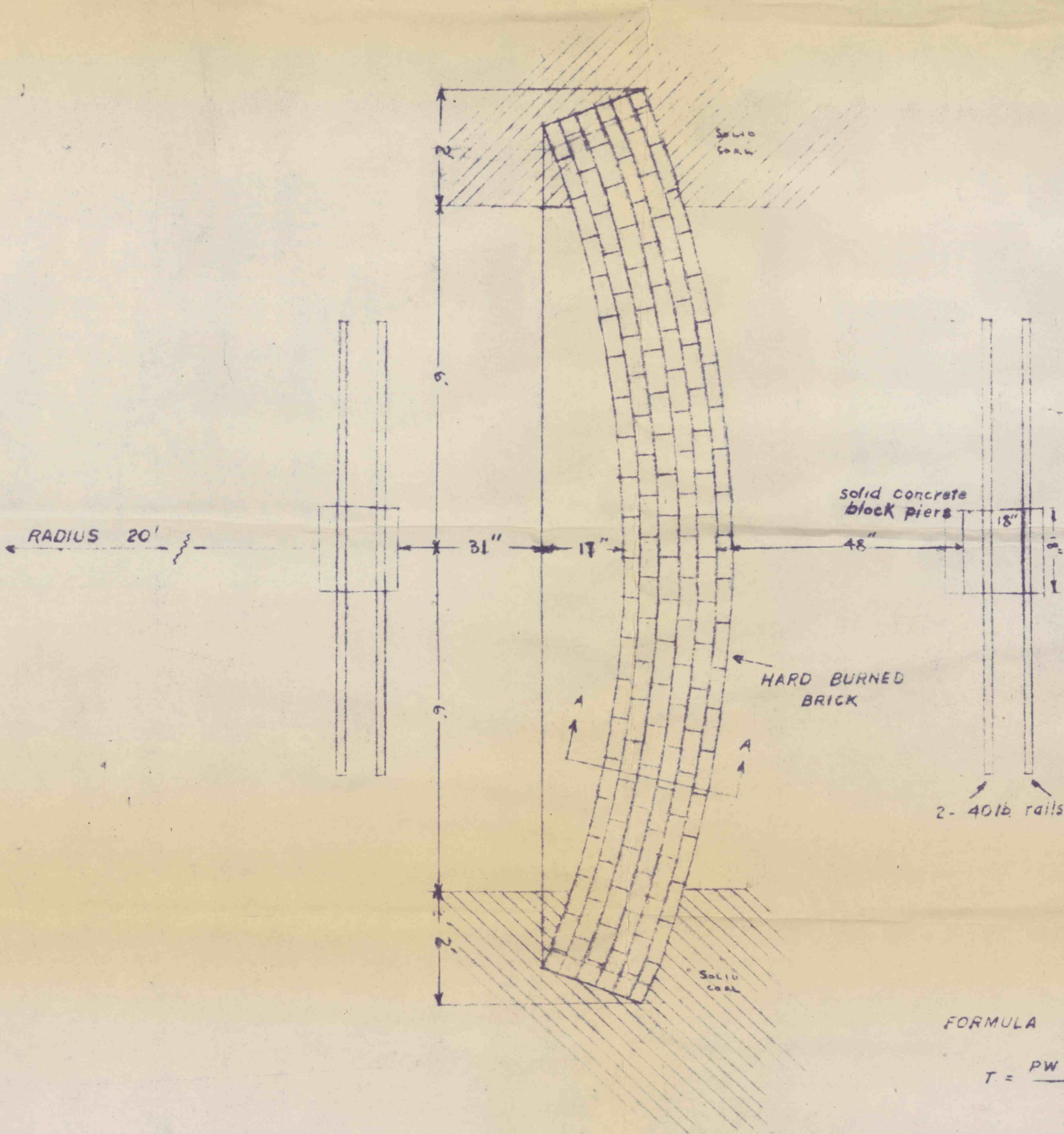


WESTLAND MINE SCALE 1"=2'

PITTSBURGH COAL COMPANY
 Division of Pittsburgh Consolidation Coal Co.

CONSTRUCTION PLAN OF BULKHEADS
 IN 3RD EAST
 SEE ATTACHED PLAN FOR LOCATION
 DAM NO'S. 1,2,3,4,6,7,8.

REF. "C"



FORMULA FOR DAM THICKNESS

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

- 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.
- P = WATER PRESSURE AT DAM IN POUNDS PER SQUARE INCH.

