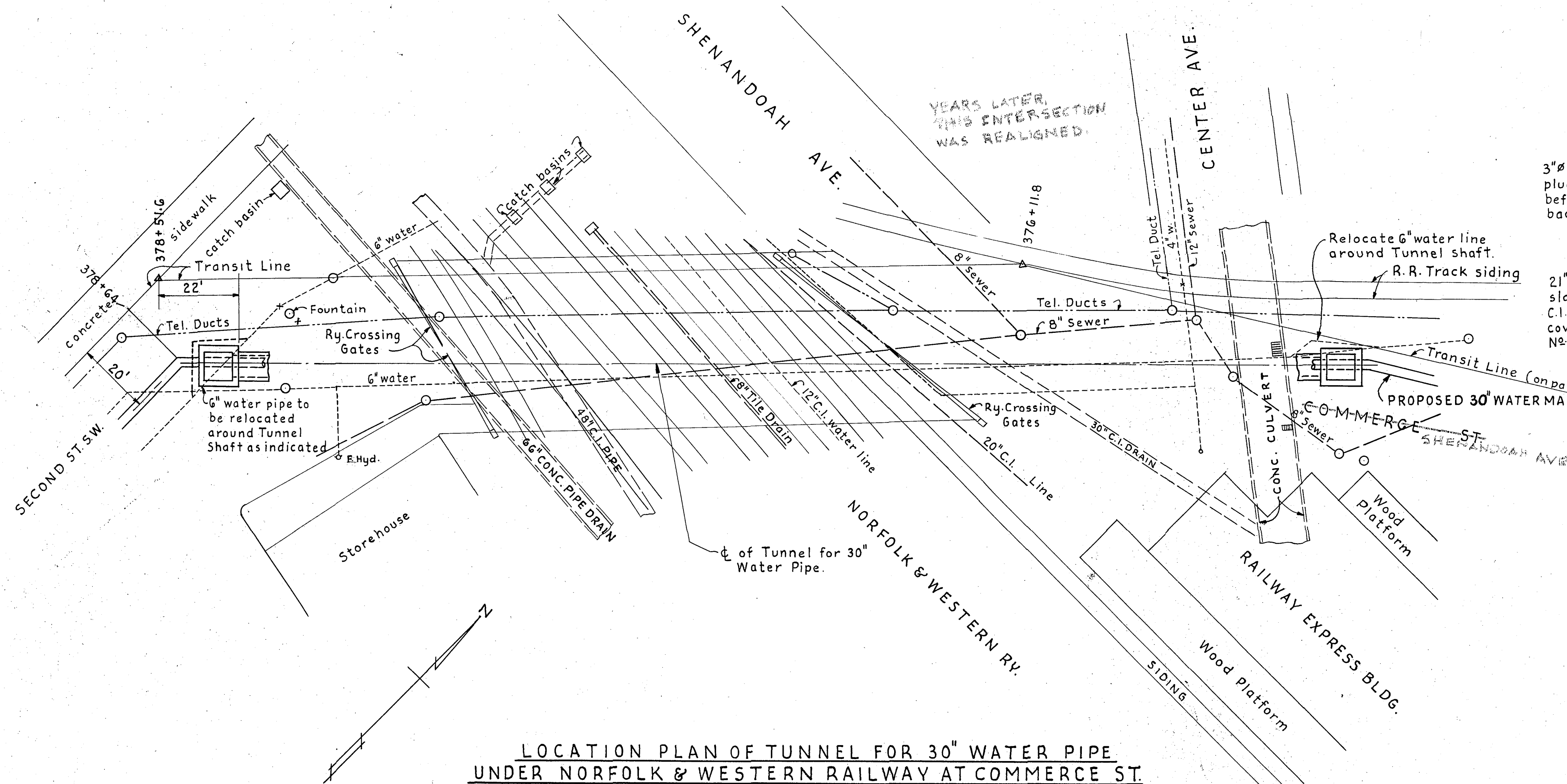
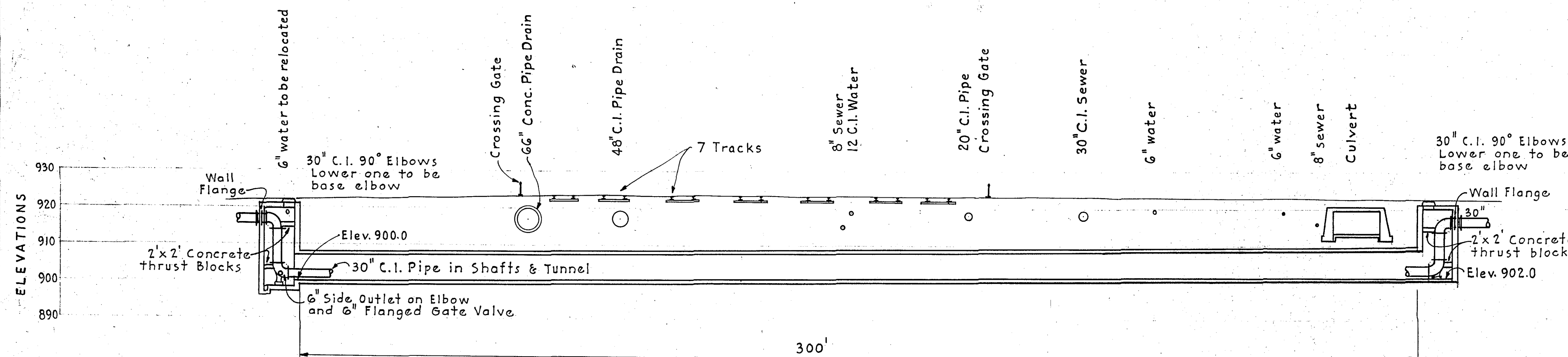




LOCATION PLAN OF TUNNEL FOR 30" WATER PIPE
UNDER NORFOLK & WESTERN RAILWAY AT COMMERCE ST.

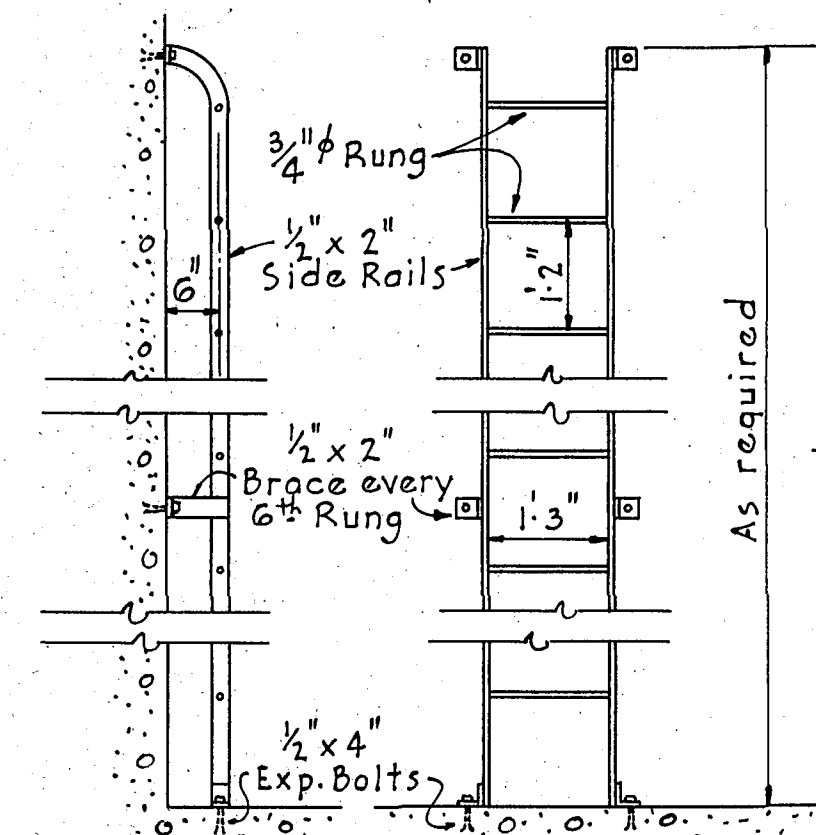
SCALE: 1" = 20'



Elevs. refer to U.S. Datum.

PROFILE OF TUNNEL

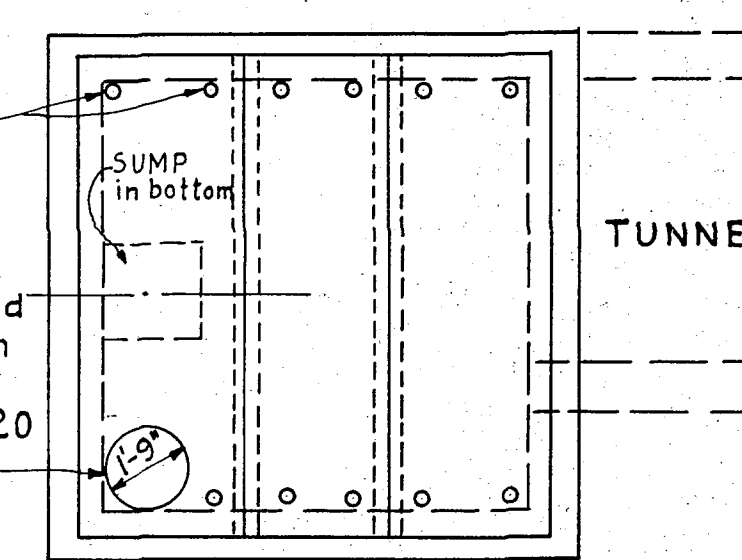
SCALE: 1" = 20'



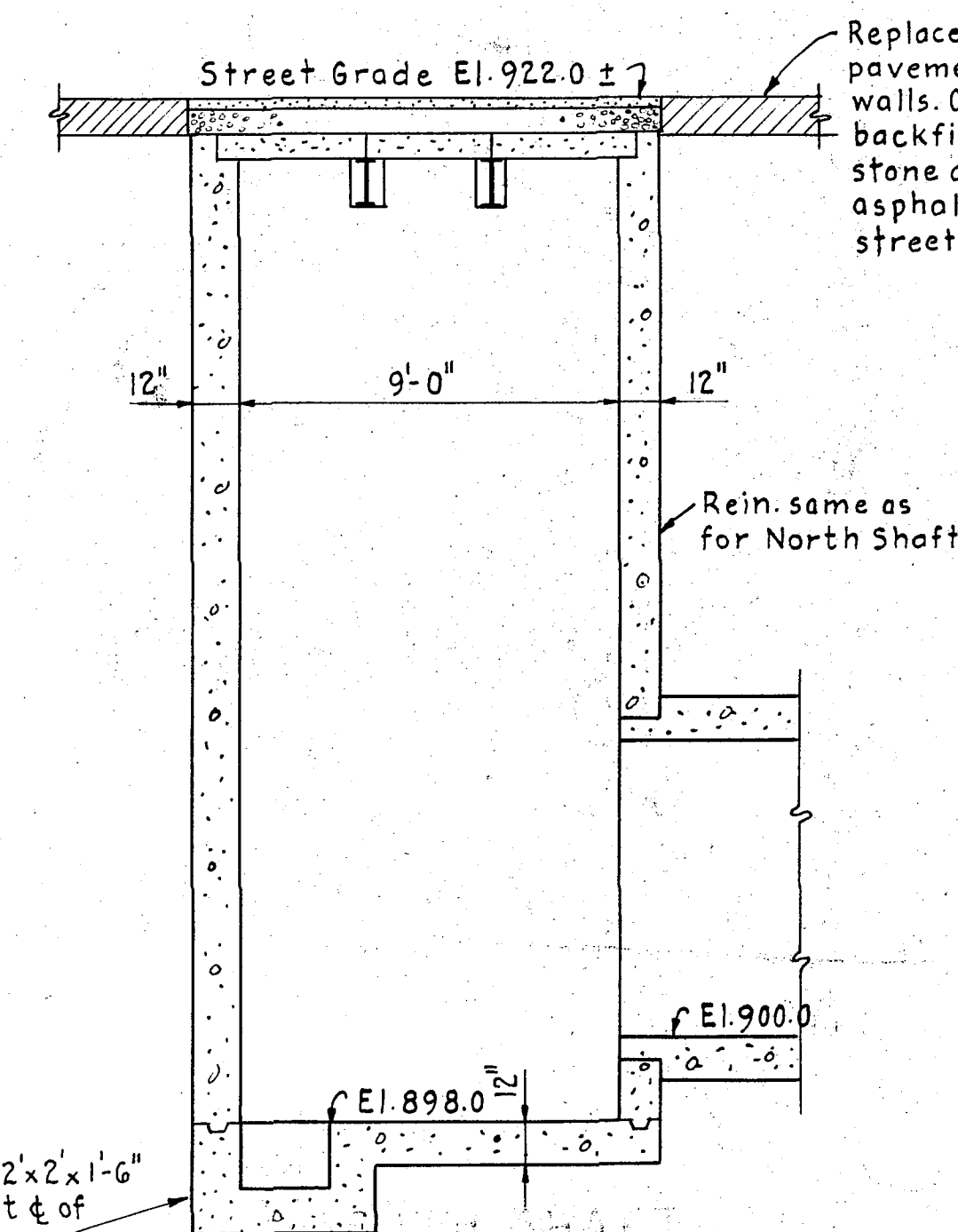
LADDER DETAIL

2-REQD. SCALE: 1/2" = 1'-0"

3"ø Lifting holes;
plug with rags
before placing
backfill.

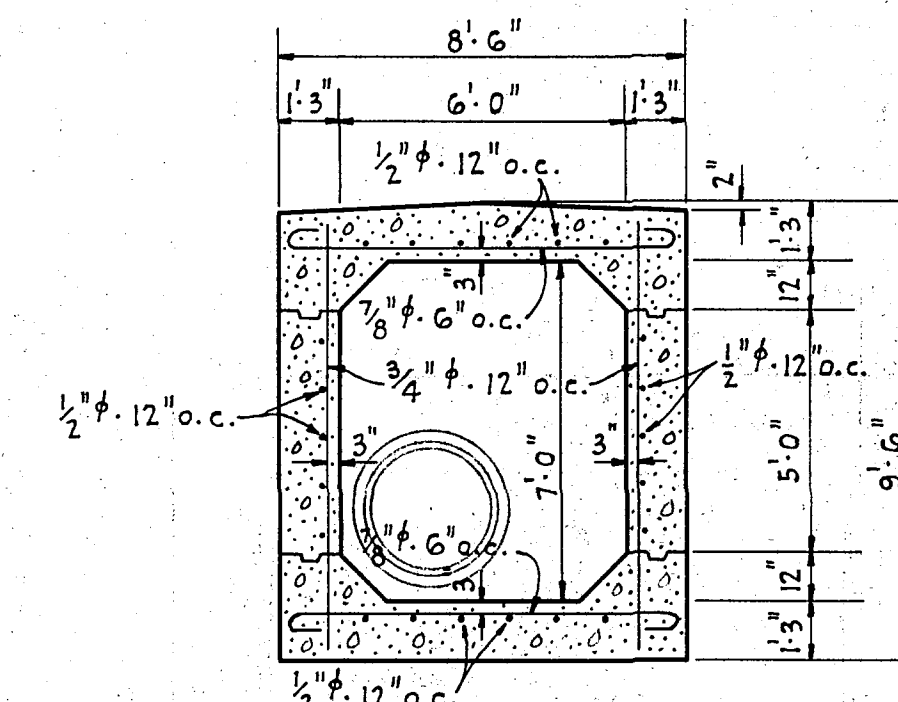


PLAN



SOUTH SHAFT

1/4" = 1'-0"

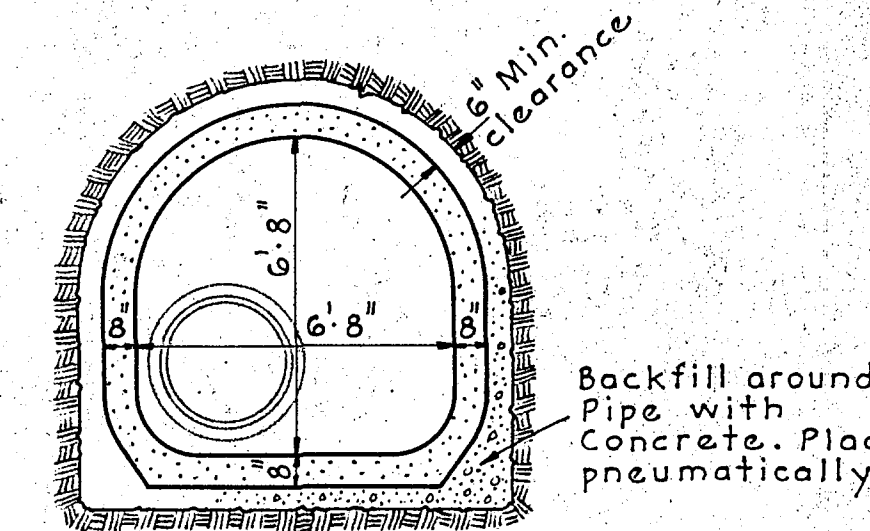


TUNNEL SECTION

SCALE: 1/4" = 1'-0"

ALTERNATE TUNNEL SECTION

MASSEY REINFORCED
FLAT BASE PIPE



Note:
Tunnel to be built
monolithically or with
precast Massey Flat Base
pipe, as per details, at
contractor's option with
N. & W. Ry. approval.

CARVIN'S COVE WATER SUPPLY
PIPE LINE
NORFOLK & WESTERN RY. CROSSING
ROANOKE WATER DEPT.
ROANOKE, VIRGINIA

ALVORD, BURDICK & HOWSON
ENGINEERS CHICAGO

1944

41