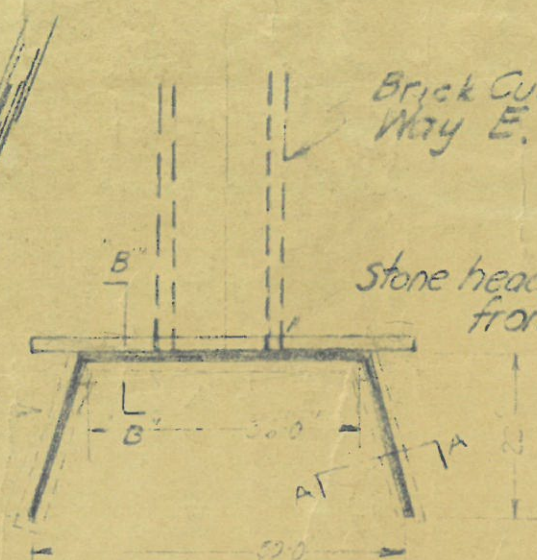


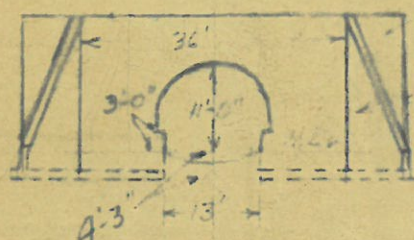
New Conc. Headwall
and Wingwalls

Brick Culvert under Lincoln
Way E. (U.S. 30)

Stone headwall breaking away
from Culvert



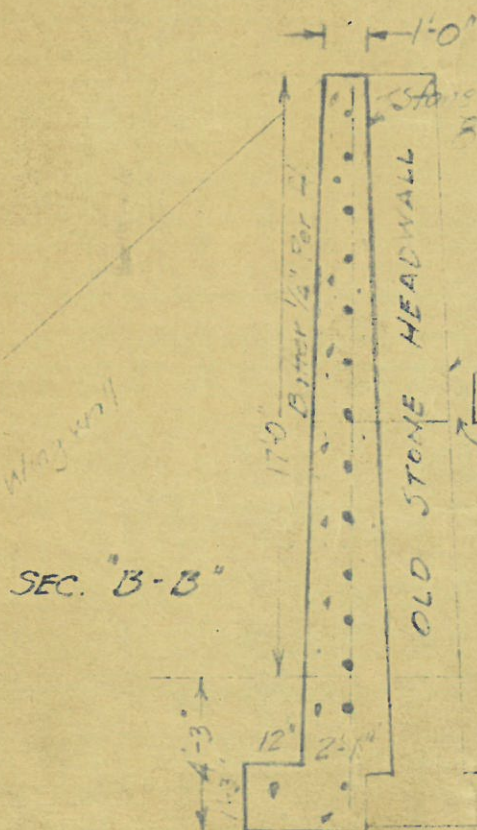
Plan View



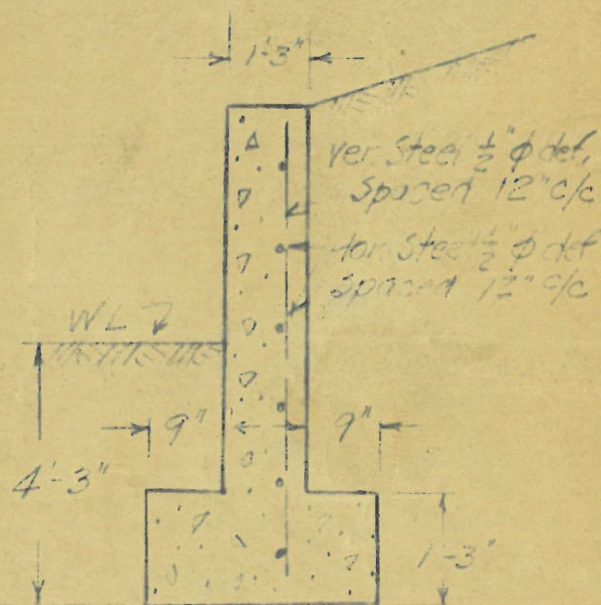
old Stone

New Concrete

Footer



SEC. "B-B"



SECTIONAL VIEW
Wing Wall
SEC "A-A"

Headwall breaking
away from Arch
Brick Arch Culvert
Fill with Cement

CITY OF MASSILLON, OHIO

HEAD AND WING WALLS ON W.D.
END OF CULVERT UNDER

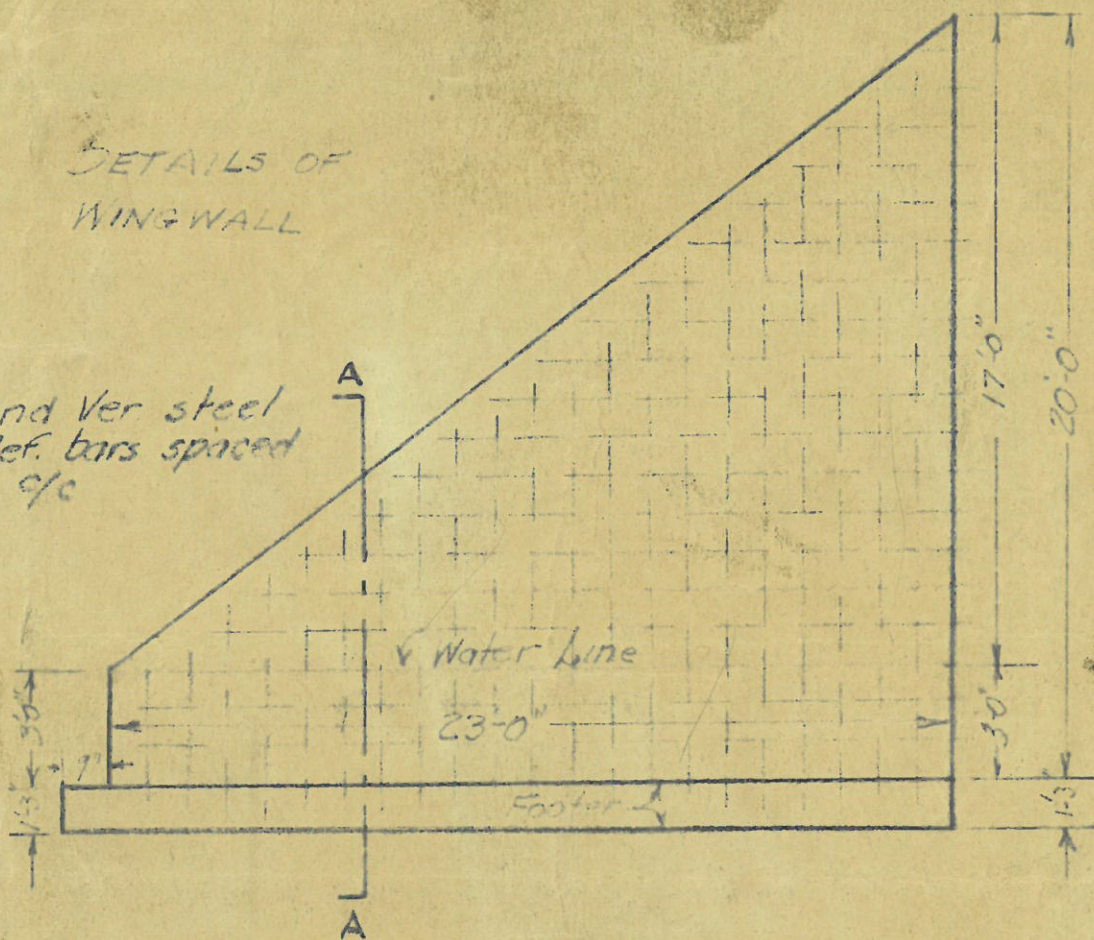
LINCOLN WAY EAST AT SPUR

CITY ENGINEERS OFFICE

Designed & Drawn by G. G. M. 1920

DETAILS OF WING WALL

Hor. and Ver. steel
 $\frac{1}{2}" \phi$ def. bars spaced
12" o/c



Hor. steel to be tied to steel in
headwall - lap 40 diameters or
20 inches

Steel to be ordered in 20 ft lengths and cut on job.
Conc shall be class 1 conc (Six sacks cement per cu. yd. of
finished concrete), surface to be rubbed.

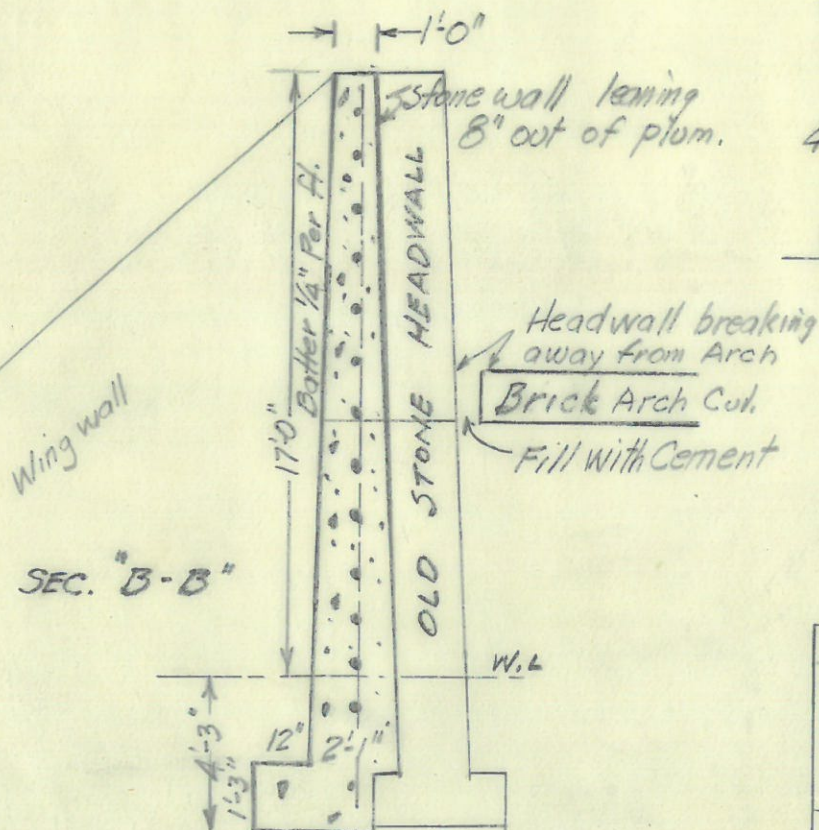
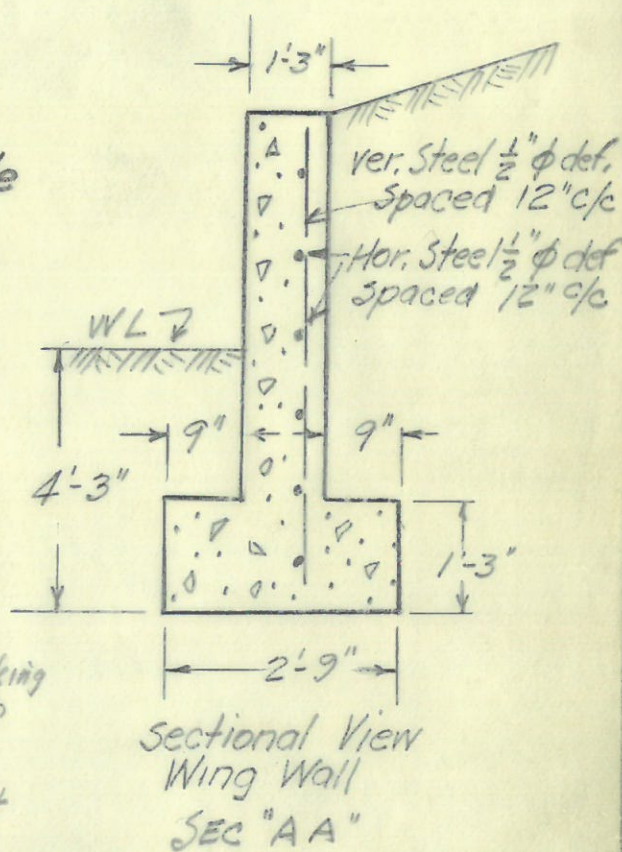
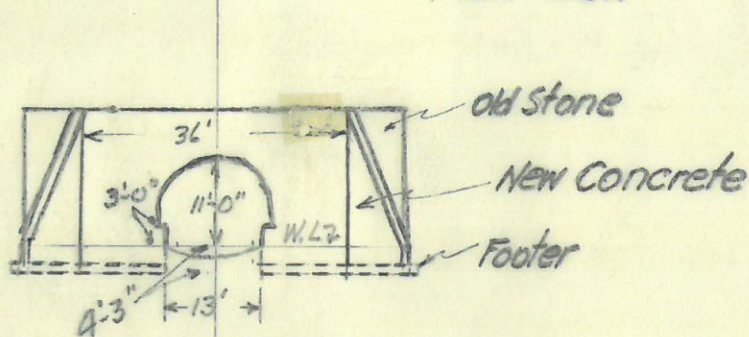
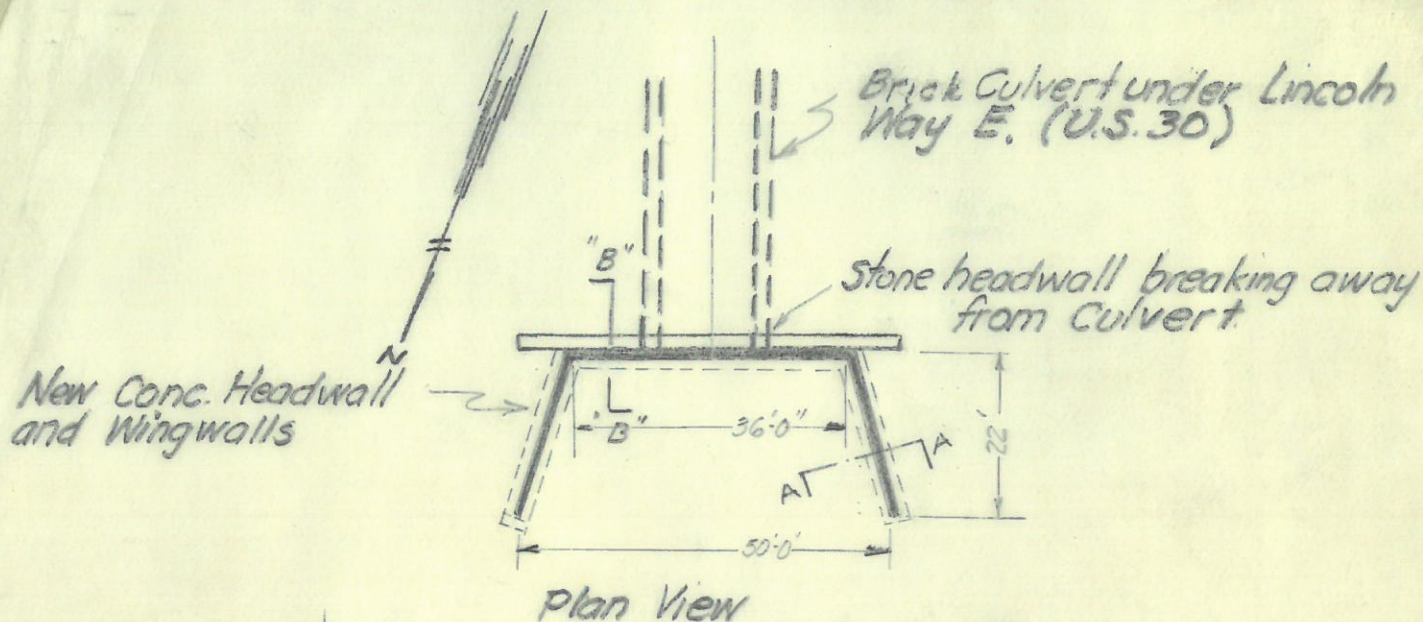
CITY OF MASSILLON, OHIO

HEAD AND WING WALLS ON No.
END OF CULVERT UNDER
LINCOLN WAY EAST AT SHIPPO

CITY ENGINEERS' OFFICE - GE. Rice

Dr. & Designed by - G.C. Wallace

Sheet 2
of 2

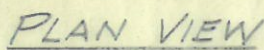


CITY OF MASSILLON, OHIO

HEAD AND WING WALLS ON NO. END OF CULVERT UNDER LINCOLN WAY EAST AT SIPPO CR.

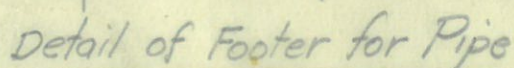
CITY ENGINEERS OFFICE - C. E. RICE
Designed & Dr. by G. C. Wallace

Sheet 1 of 2

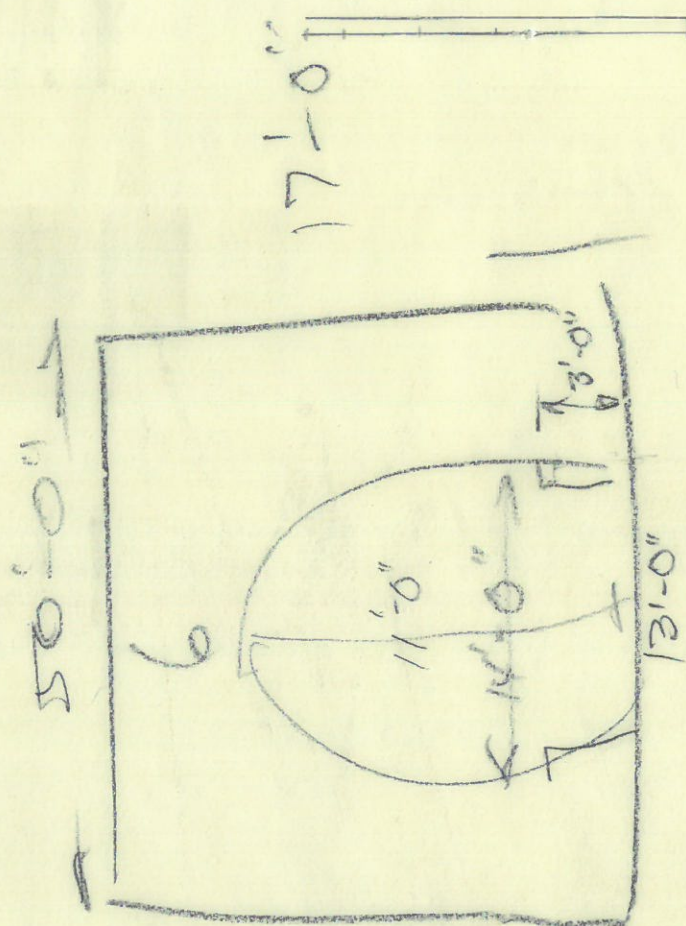
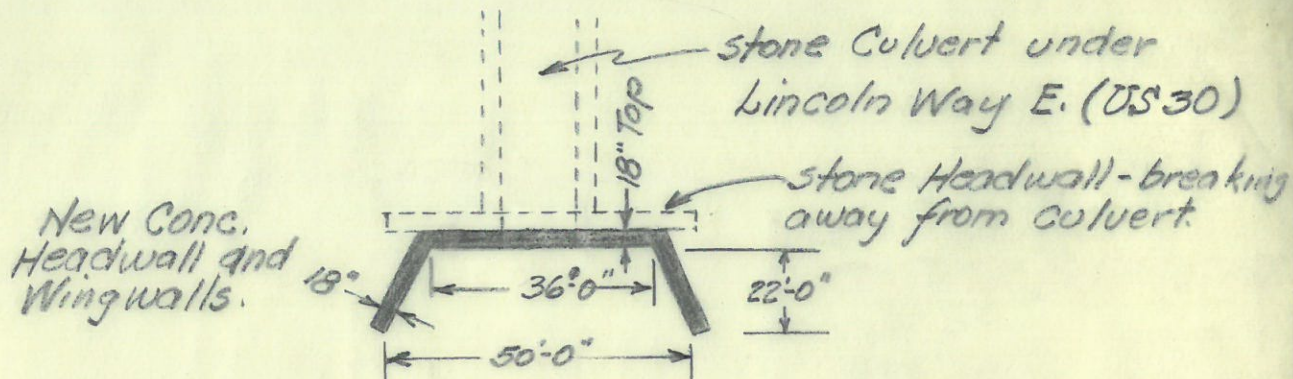


Hand-drawn cross-section diagram of a bridge structure. The diagram shows a central arch with a semi-circular top. The arch is supported by two abutments. The total width of the bridge is 24'-6". The arch has a radius of 12'-6". The height of the arch from the base to the top is 14'-5 3/8". The base of the arch is 6'-0" wide on each side. The arch is labeled "Tongan #1 Ga. or equal". The base of the arch is labeled "External Water Line". The diagram also shows a grid of reinforcement bars on the left side. Dimensions are given in feet and inches, with some fractions like 3/8 and 1/2. The diagram is labeled "Headwall" on the right side.

END VIEW LOOKING EAST

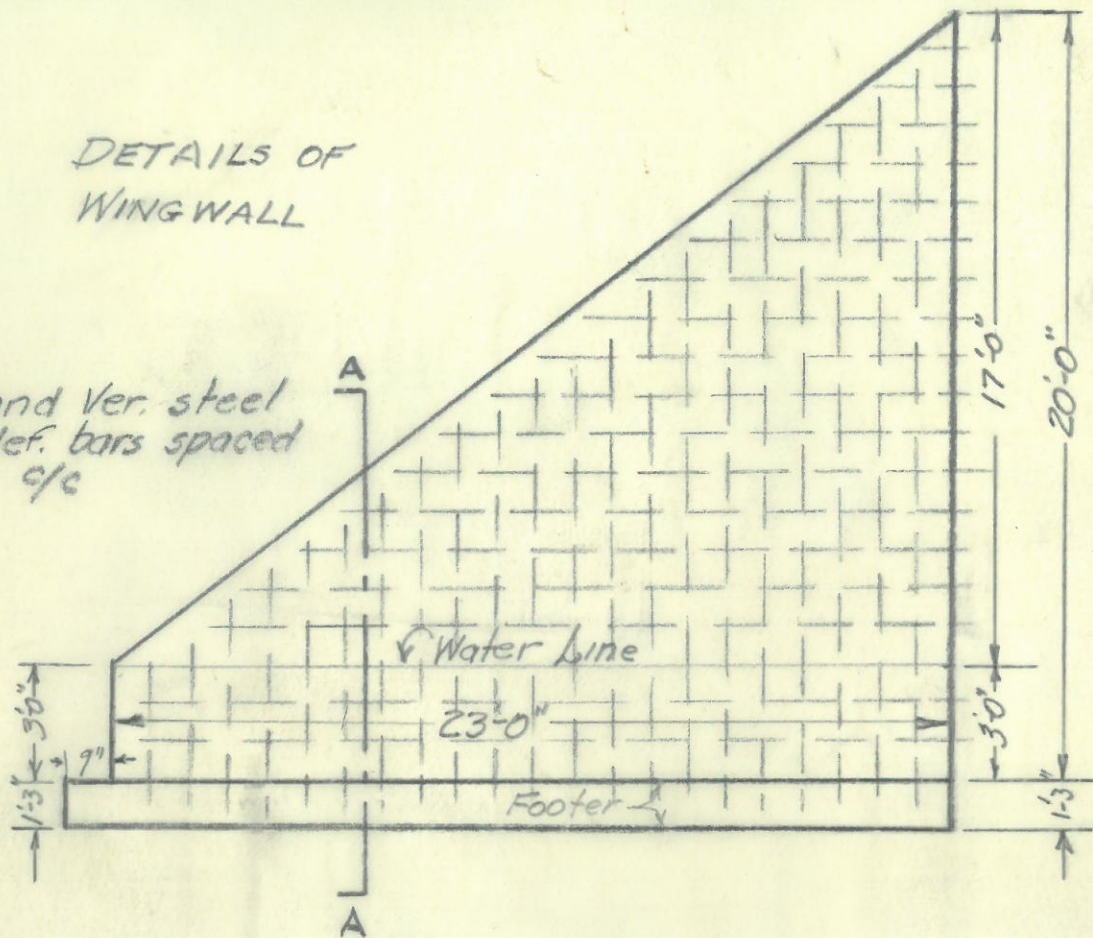


C.E. Rice City Engineer
Design & Drawn by G.C. Wallace



DETAILS OF WING WALL

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CITY OF MASSILLON, OHIO	
HEAD AND WING WALLS ON No.	
END OF CULVERT UNDER	
LINCOLN WAY EAST AT SIPPOCK	
CITY ENGINEERS OFFICE - G.E. Rice	
Dr. & Designed by - G.C. Wallace	Sheet 2 of 2