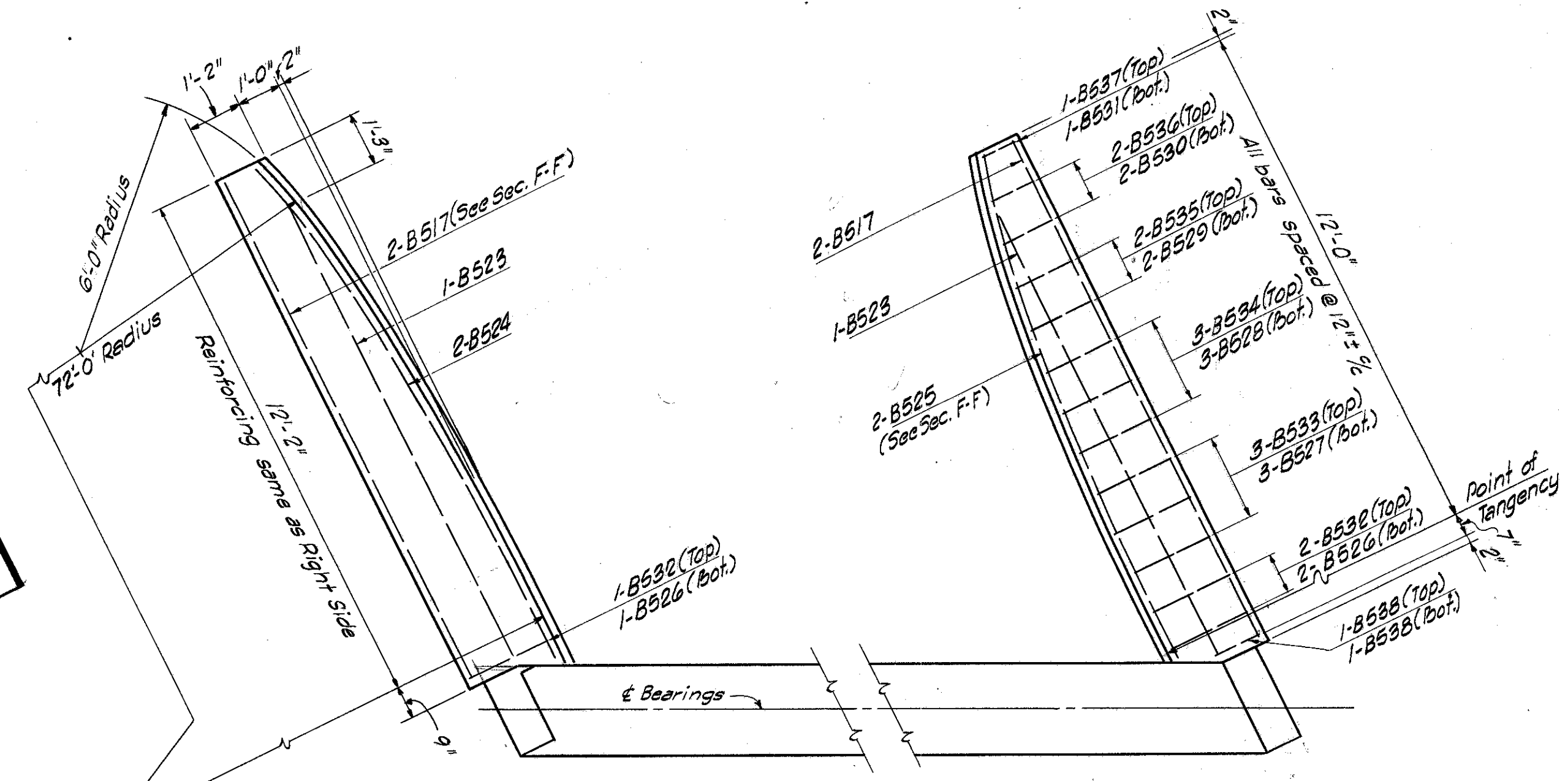
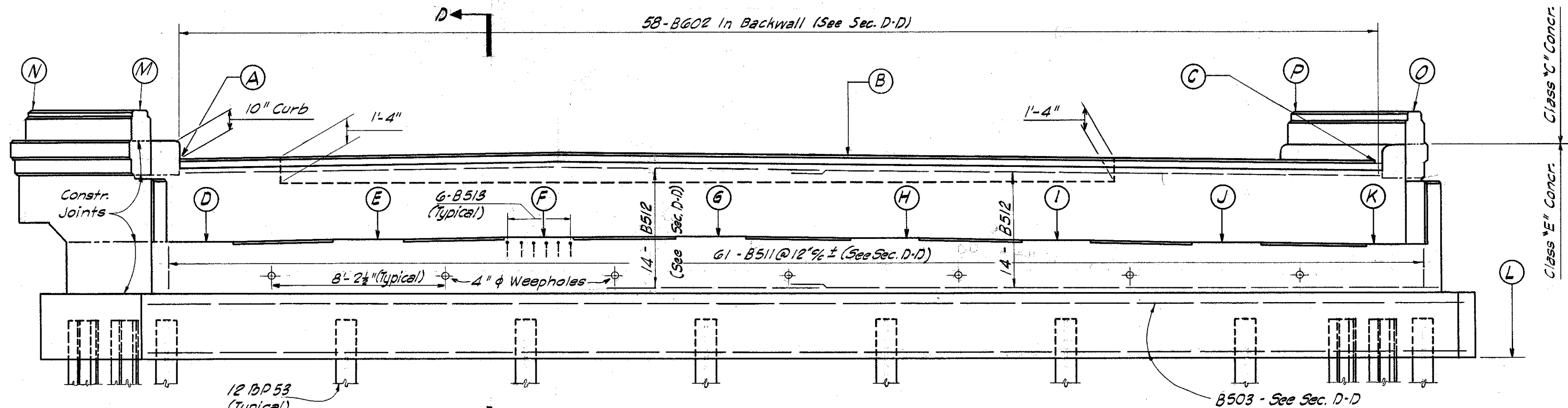


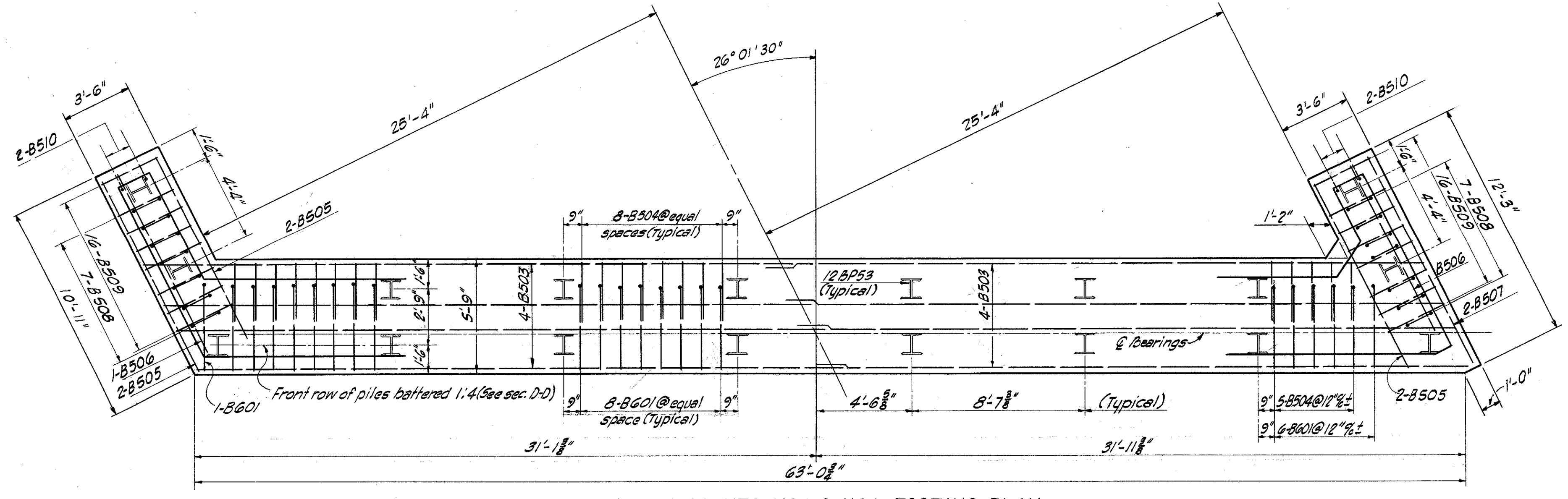
ABUTMENT NO. 1 PLAN
(Abutment No 2 Similar, See Elevation Location Diagram)



WINGWALL PLAN



ABUTMENT NO. 1 ELEVATION
(Abutment No 2 Similar, See Elevation Location Diagram)



ABUTMENTS NO. 1 & NO. 2 FOOTING PLAN

GENERAL NOTES

- Porous backfill 2 feet thick full length of abutment shall extend up to the underside of the approach slab.
- Clearance of reinforcing steel from face of concrete shall be 2" unless otherwise shown.
- Concrete above bridge seat construction joint shall not be placed until after the steelwork is erected, but shall be placed before placing deck slab.
- Steel end dam shall be used as a template for the top of the backwall.
- All abutment concrete shall be Class "E".
- All parapet concrete shall be Class "C".
- Guard Rail End Connection to be included with railing for payment.

PILING NOTES

- Piles shall be driven with a hammer of not less than 11,000 ft. lbs. per blow to form contact with shale. If the length of penetration is approximately equal to the depth to shale according to the bridge foundation investigation report, the firm contact shall be considered as attained when the capacity according to the formula in Sec. 5-18.05 is not less than the following value for a pile hammer of the indicated energy rating.
65 tons per pile using a 11,000 ft. lb. hammer
58 tons per pile using a 15,000 ft. lb. hammer
If the energy rating of the hammer is between the ratings shown above, the required formula capacity shall be determined by interpolation. The design load is 40 tons per pile.

This sheet to work with Abutments - Sections & Details sheet.

MICHAEL BAKER JR. CONSULTING ENGINEERS ROCHESTER, PENNSYLVANIA					
ABUTMENTS					
SOUTH BOUND-PLAN & ELEVATION					
BRIDGE NO. LAK-1-0499					
OVER RIVERSIDE DRIVE					
LAKE COUNTY					
S.B. STA. 271 + 21.44 TO STA. 272 + 56.44					
Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
Y.G.	B.	A.Y.D.	J.W.V.	M.R.D. 4-25-58	