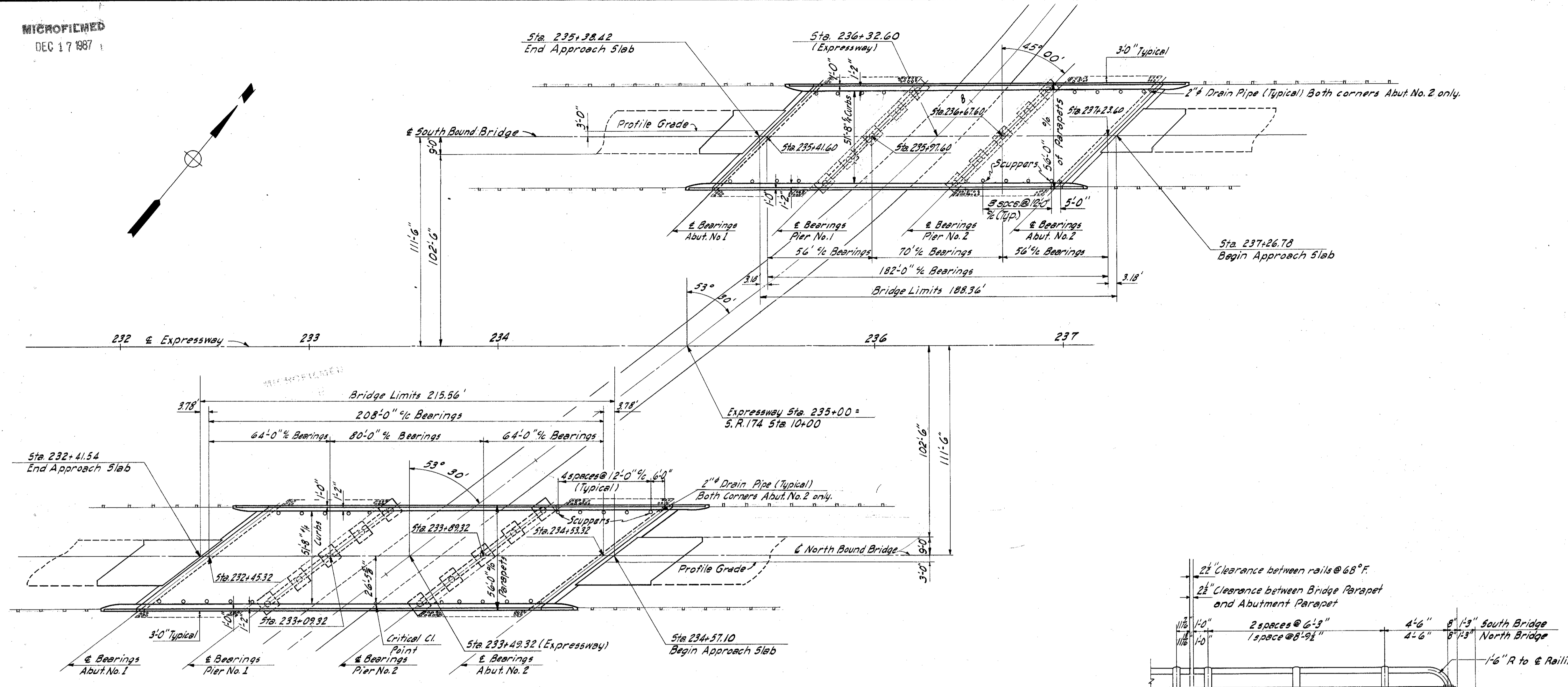


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DEC 17 1987

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	I-1103(20)	

262  
333

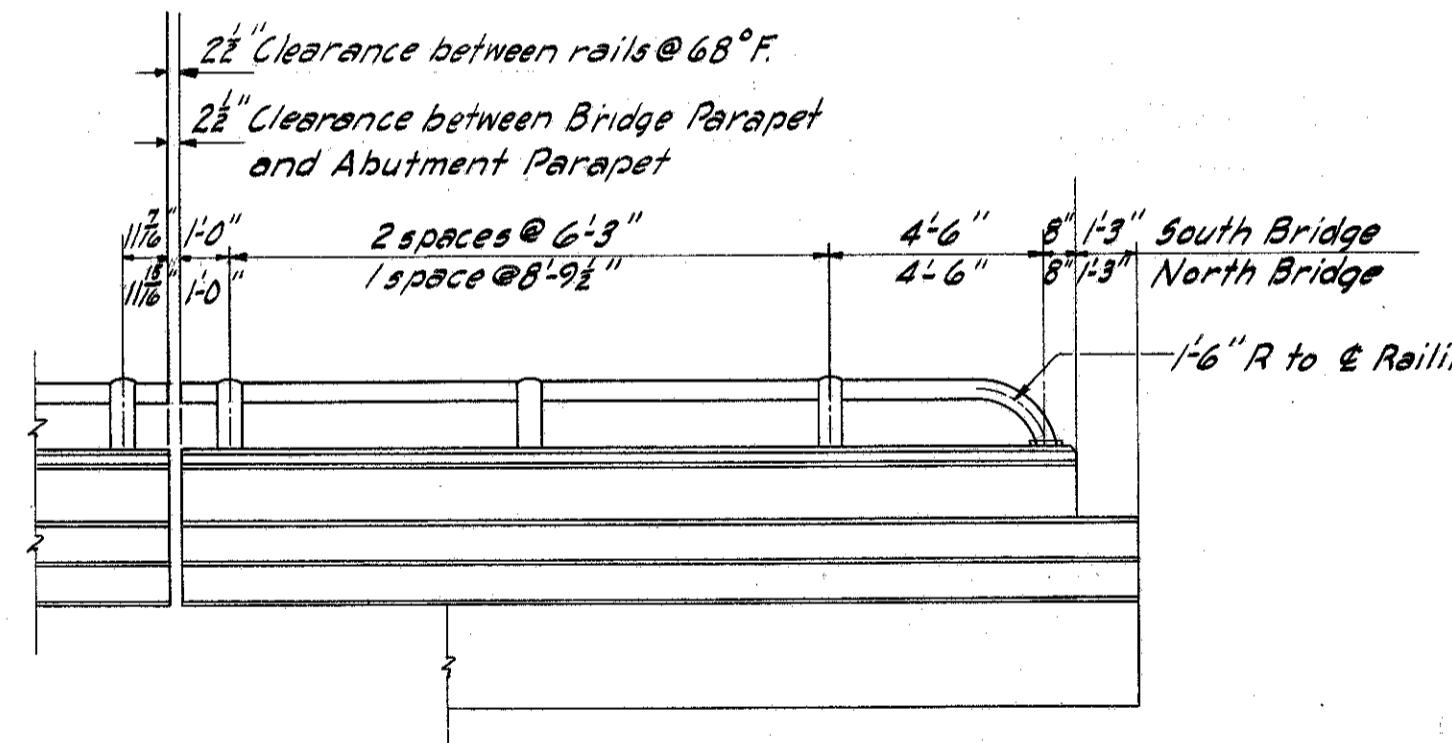
LAKE COUNTY  
LAK-1-4.02



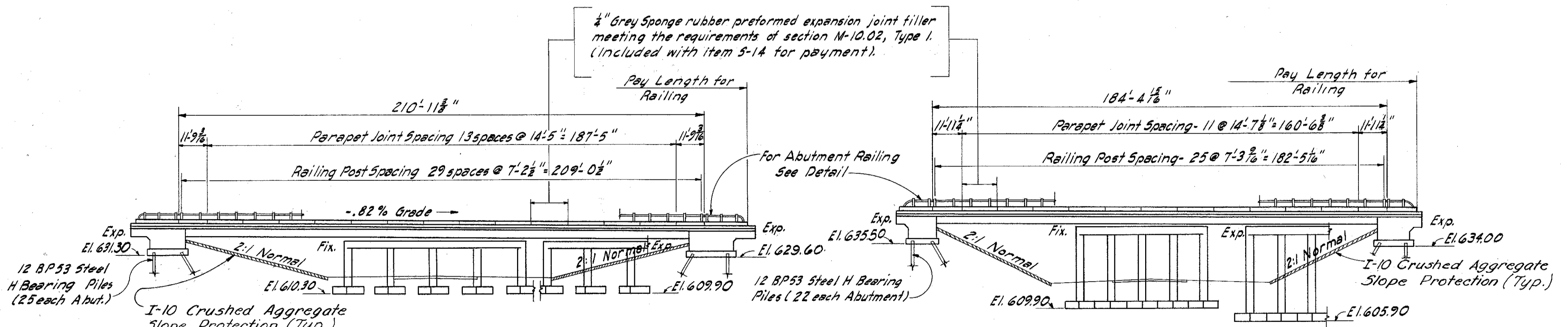
GENERAL PLAN

**GENERAL NOTES**

- Reference shall be made to Standard Drawings C5B-2-56, sheets 213 of 6 revised 2-2-53, RB-1-55 dated 2-2-53, AR-1-57 revised 2-2-59, and to Supplemental Specification 1427 revised 11-16-57.
- Design Specification: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Dept. of Highways, dated 9-1-57, revised 2-2-58.
- Loading: C.F. 200.0 (57). Adequate for A.A.S.H.O. alternate loading.
- Welding of structural steel shall be Class "A", except as shown. Any welds shown as field welds may, at the option of the Contractor, be made in the shop.
- Excavation quantity includes the removal of fill material between surface of proposed embankment and bottom of Abutment. Backfill behind abutment shall be made with material meeting the requirements of Sec. 5-1-22 and shall be compacted in accordance with requirements for embankment compaction. Payment for backfill shall be included with unclassified excavation.
- Embankments shall be placed to subgrade elevation for a distance of approximately 200 feet beyond the bridge limits as early as practical in the construction procedure and before work is begun on Abutments or Piers 1 & 2. Abutments should be placed as late as practical, with a minimum time lapse of 30 days between completion of the embankment and starting of work on the abutments.
- Foundation Bearing Pressure: Pier footings are designed for a maximum bearing pressure of 6 tons per sq. ft. Piles shall be driven with a hammer of not less than 11000 ft. lbs. per blow to firm contact with shale. If the length of penetration is approximately equal to the depth to shale according to 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.  
For Abutment Piles:  
68 tons per pile using a 11000 ft. lb. hammer.  
57 tons per pile using a 15000 ft. lb. hammer or greater.  
If the energy rating of the hammer is between the ratings as shown above, the required formula capacity shall be determined by interpolation. The design load is 40 tons per pile for the abutment piles.
- Footings shall extend a minimum of 3' into shale, or to the elevation shown, whichever is lower.
- Traffic: Two lanes of traffic with a minimum width of 26'-0" shall be maintained on S.R. 174 at all times. The Contractor shall safeguard the traveling public by providing platforms, nets or other suitable protection above the traveled lanes. A minimum vertical clearance of 12'-9" shall be provided at all times.

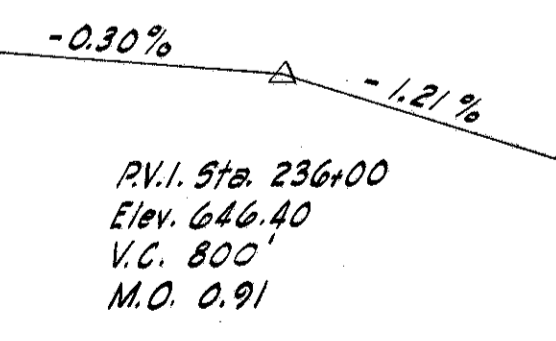


ABUTMENT RAILING DETAIL



ELEVATION SOUTH BRIDGE  
(North Bound Lanes)

ELEVATION NORTH BRIDGE  
(South Bound Lanes)



GRADE DATA

MICHAEL BAKER JR., CONSULTING ENGINEERS ROCHESTER, PENNSYLVANIA					
<b>GENERAL PLAN &amp; ELEVATION</b>					
BRIDGE NO. LAK-1-0426 OVER STATE ROUTE NO. 174					
NB STA. 232 + 41.54 TO STA. 234 + 57.10 SB STA. 235 + 38.42 TO STA. 237 + 26.78					
LAKE COUNTY					
Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
D.E.B.	AC.M.	AC.M.	G.M.W.	11/28/58	4-58
E.E.W.					