

MICROFILMED
DEC 23 1987

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

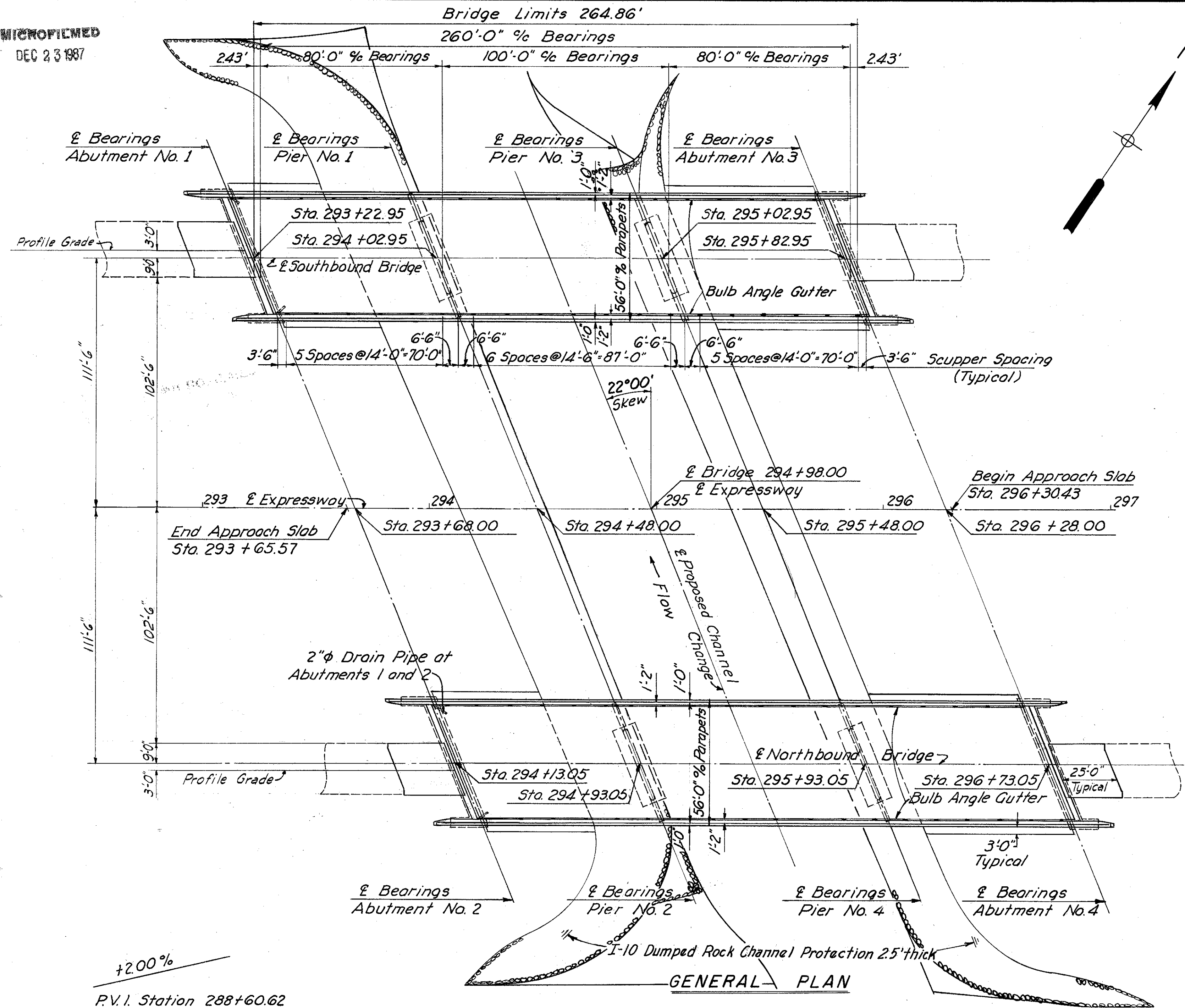
LAKE COUNTY
LAK-1-4.02

293
333

GENERAL NOTES

- REFERENCE shall be made to Standard Drawings CSB-2-56, Sheets 243 of 6, revised 2-2-59, RB-1-55 dated 2-2-59, AR-1-57, revised 2-2-59, and to Supplemental Specification I-127 revised 11-16-57.
- DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, revised 2-21-58.
- LOADING: C.F.=2,000 (57), Adequate for A.A.S.H.O. Alternate Loading.
- WELDING of structural steel shall be Class "A" except as otherwise shown. Any welds shown as field welds may, at the option of the Contractor, be made in shop.
- SLOPE PROTECTION shall be dumped rock channel protection meeting the requirements of Section I-10.06. The dumped rock channel protection shall extend from the toe of slope to Elevation 616.0 and across the slope area as shown on the General Plan and the Site Plan.
- EXCAVATION QUANTITY includes the removal of fill material between surface of proposed embankment and bottom of abutment. Backfill behind the abutments shall be made with material meeting the requirements of Sec. I-22 and shall be compacted in accordance with requirements for embankment compaction. Payment for the backfill shall be included with unclassified excavation.
- FOUNDATION BEARING PRESSURE: Footings are designed for a maximum bearing pressure of 4.5 tons per sq. ft. for the piers.

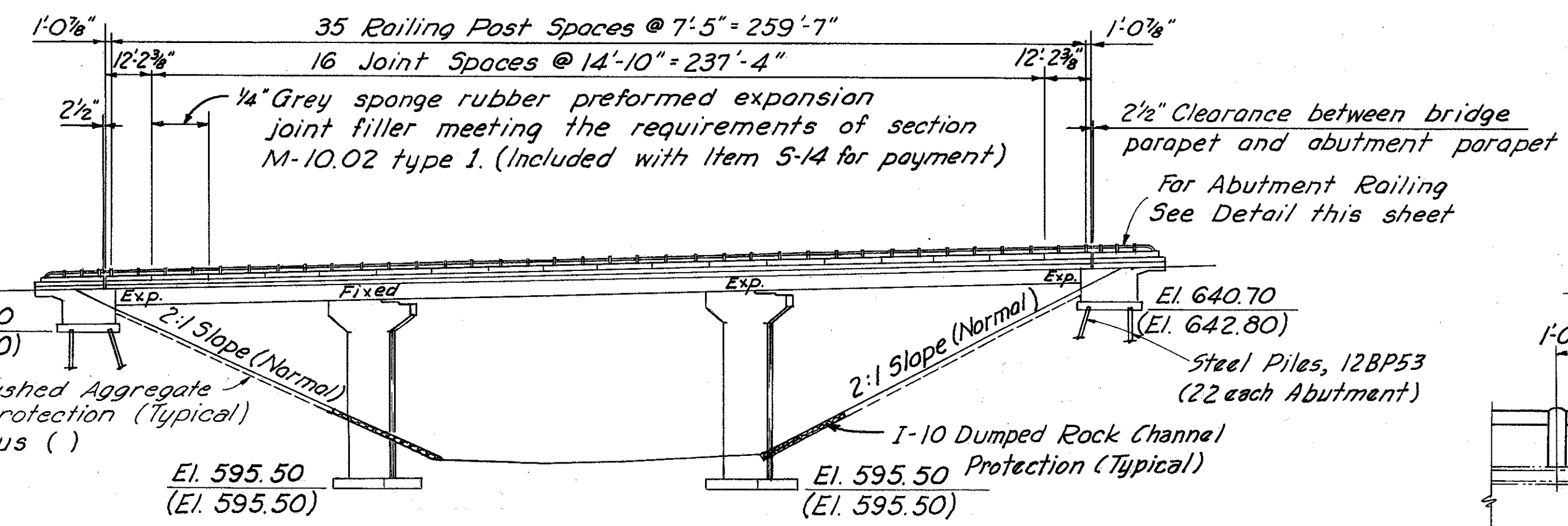
- PILES shall be driven with a hammer of not less than 11000 ft. lbs. per blow to firm contact with shale. If the length of penetration is approximately equal to the depth to shale according to bridge foundation investigation report, the firm contact shall be considered as attained when the capacity 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:
4.5 tons per pile using a 11000 ft. lb. hammer.
4.5 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 4.5 tons per pile for the abutment piles.
FOOTINGS shall extend a minimum of 3" into shale, or to the elevation shown, whichever is lower.



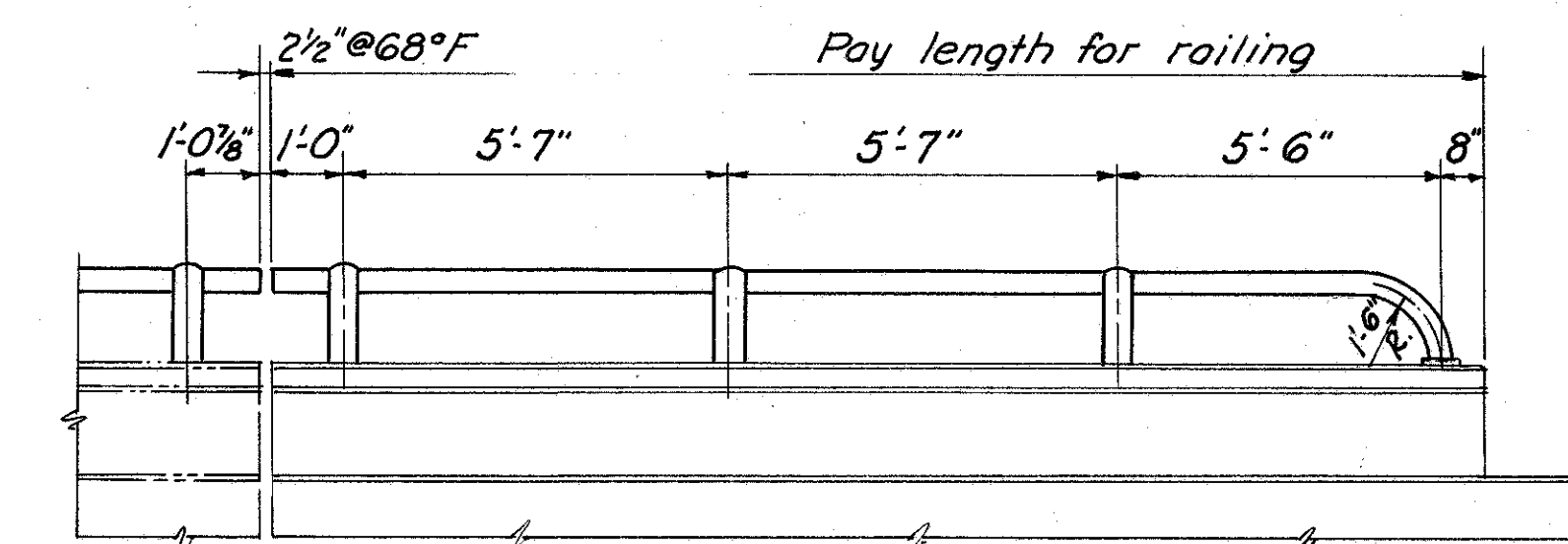
+2.00%
P.V.I. Station 288+60.62
Elevation 639.26
V.C. = 600'

GRADE DATA

Foundation Elevations shown thus () are for Northbound Bridge



ELEVATION



ABUTMENT RAILING DETAIL

MICHAEL BAKER, JR., CONSULTING ENGINEERS
ROCHESTER, PENNSYLVANIA

GENERAL PLAN & ELEVATION
BRIDGE NO. LAK-1-0541
OVER EAST BRANCH CHAGRIN RIVER

LAKE COUNTY STA. 294+98.00

Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
A.A.	P.W.	P.W./M.	D.W.S.	K.A. 11-57	