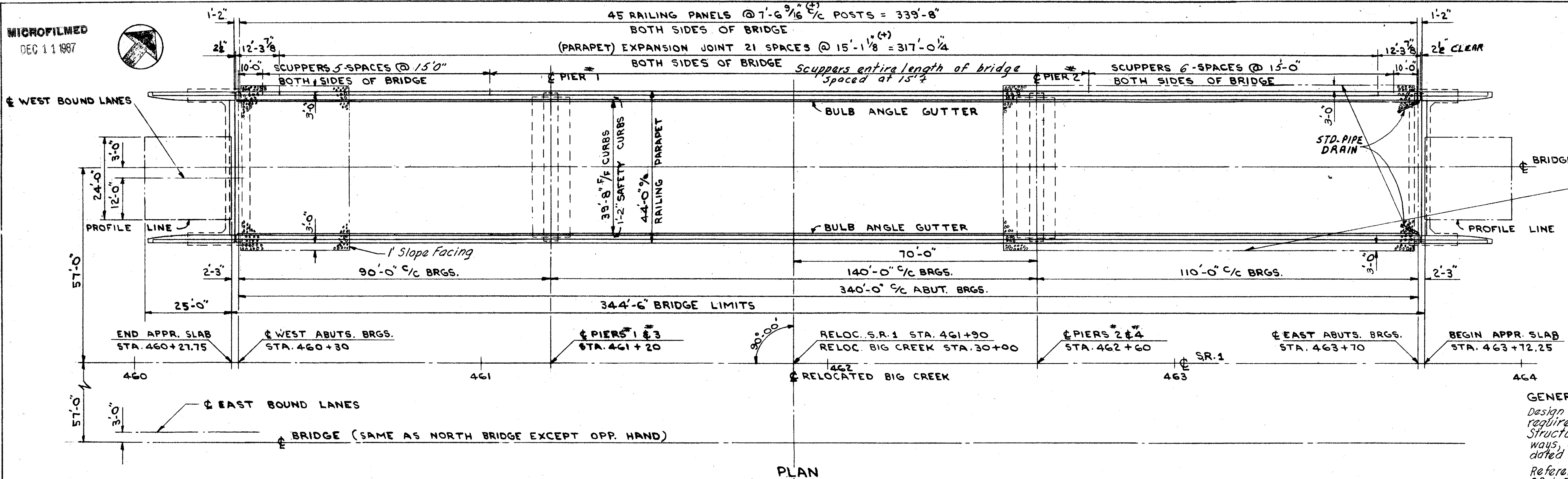


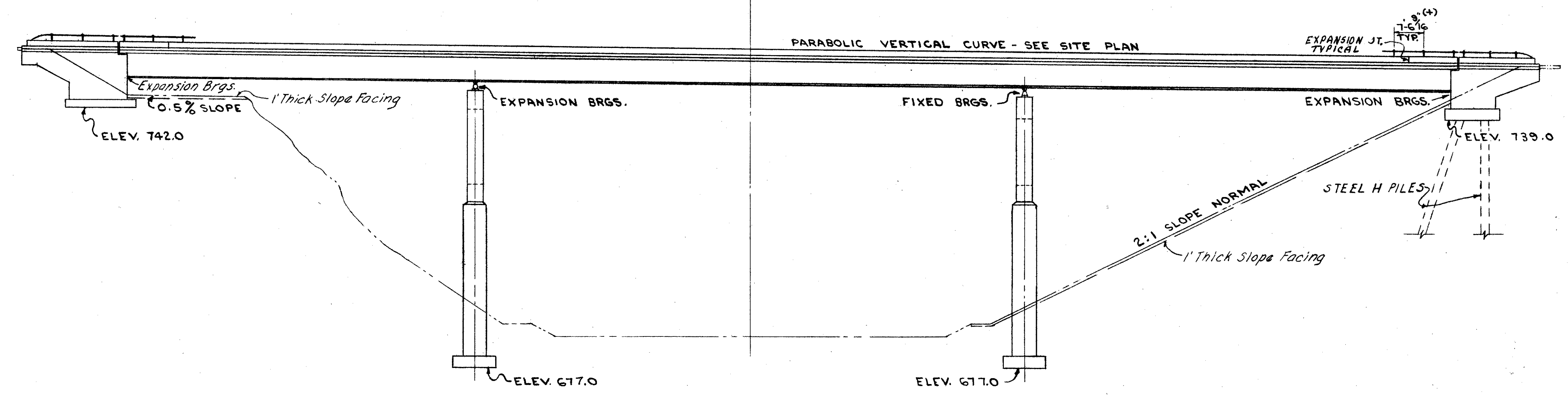
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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	ACI-1103-(2)	454 488

LAKE COUNTY
LAK-1-12.89



PLAN



SOUTH ELEVATION

GENERAL NOTES:
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, together with revisions thereto dated 2-21-58.

Reference shall be made to Standard Drawings RB-1-55, dated 3-1-55, CSB-2-56, sheets 2&3 of 6, revised 3-1-58, to AR-1-57, revised 3-1-58, and to supplemental spec. 5-114 revised 8-1-57, § 1.127 revised 11-1-58.

Procedure: The embankment shall be placed and compacted up to finish spill thru slope and to level of subgrade for a distance of 100 feet back of the abutments, after which excavation shall be made for the abutments.

Excavation Quantities: includes the removal of fill material between the bottom of the abutments and the surface of the proposed embankment.

Slope Facing: (S-29.05) one foot thick, extending from the face of the abutments down to the toe of the slopes and transversely three feet beyond the fascia of the structure on each side, shall be provided.

Porous Backfill: 2 feet thick, full length of the abutments, shall extend up to the under side of the Approach Slab and outward to the wings. Excavation therefore, in excess of that required for the abutment shall be considered as included in the bid price per cu yd. for porous backfill.

Piles shall be driven to firm 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. 18.05 is not less than the following value for a pile hammer of the indicated energy rating:

- 35 tons per pile using a 7000 ft.-lb. hammer
 - 35 tons per pile using a 11,000 ft.-lb. hammer
 - 35 tons per pile using a 15,000 ft.-lb. greater hammer.
- 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 35 ton per pile. Piles under East Abutments only.

Excavation Quantity includes the removal of material between the bottom of abutment and the surface of the proposed embankment. Backfill behind the abutments shall be made with material meeting the requirements of SFC I-22, and shall be compacted in accordance with requirements for embankment compaction. Payment for backfill shall be included with Item E-2, unclassified excavation.

SEC. C-32 FED. AID PROJ. ACI-1103 (21)

PREPARED BY
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.
FOR

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

GENERAL PLAN
BRIDGE NO. LAK-1-1542
S.R.1 OVER BIG CREEK
LAKE COUNTY
STA. 461+90.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
	J.G.		ZAH		