

MICROFILMED
MAR 29 1984

FED. RD. DIVISION	STATE	PROJECT	226 313
2	OHIO		

LAKE COUNTY
LAK-2-1649

Located on East Corporation Line of Painesville

B.M. #78 - Lag Bolt in root of 24" Poplar
267' Lt. of Sta. 773+87
Elev. 587.690

600'± Upstream - New York Central R.R.
Reinforced Concrete Arch Bridge
Center Span = 165.5', Rise = 64'

800'± Upstream - U.S. 20
Reinforced Concrete Arch Bridge
Center Span = 122', Rise = 37.8'
Side Spans = 50', Rise = 37.8'

○ FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division office, but the State does not guarantee the accuracy thereof.

PROPOSED STRUCTURE

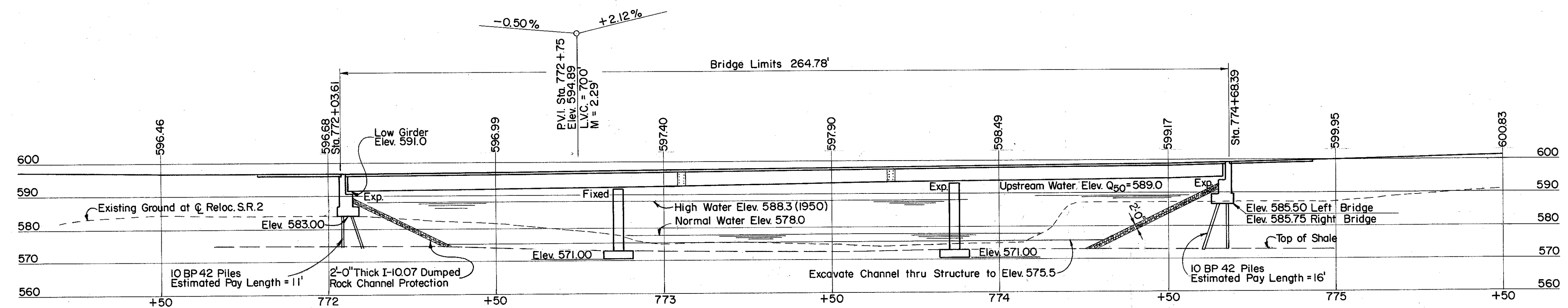
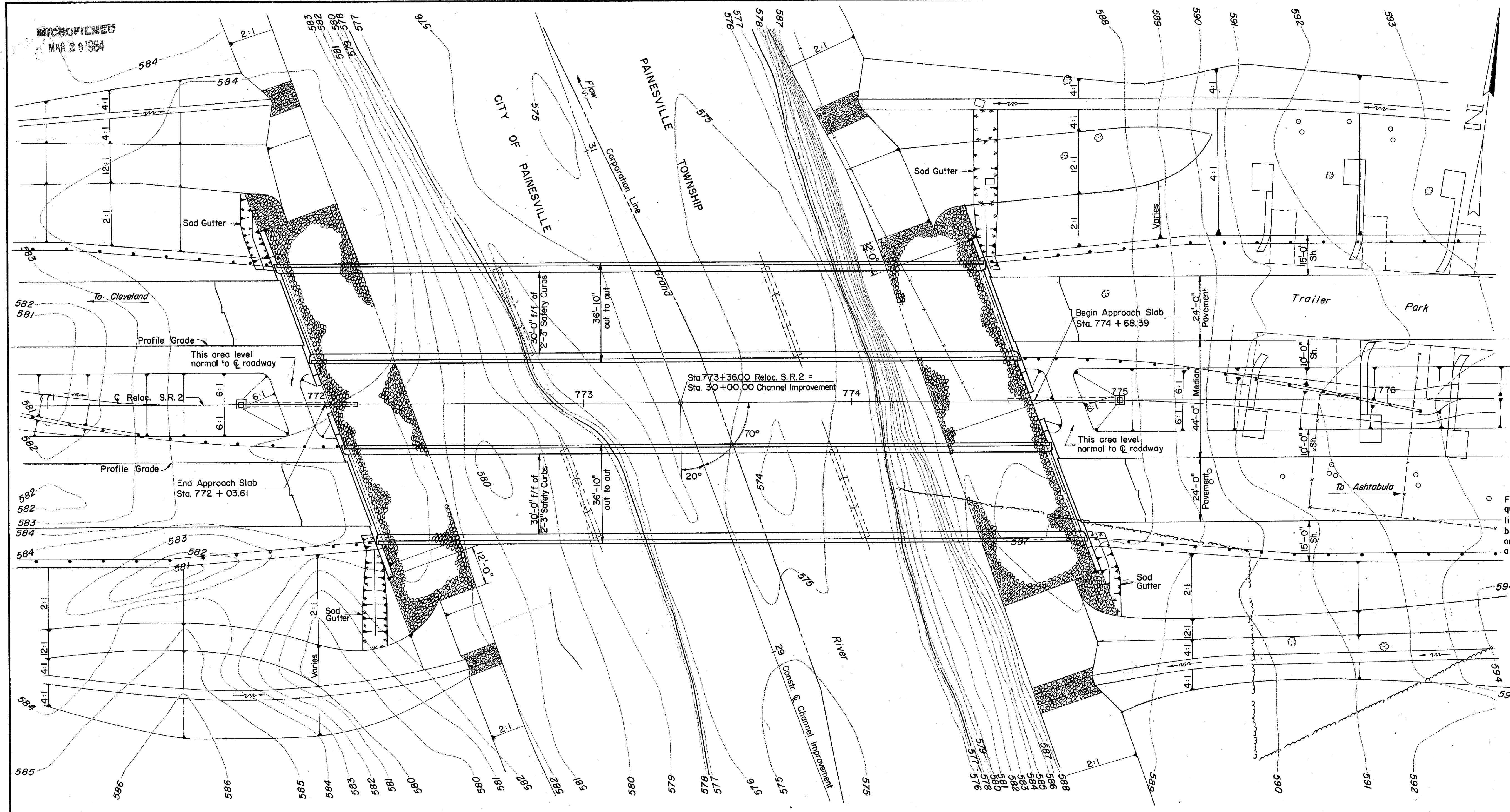
TYPE: Two 3 Span continuous welded plate girder with Reinf. Conc. Deck & Substructure.
SPANS: 80'-0", 100'-0", 80'-0" % Brgs.
ROADWAY: 30' $\frac{1}{2}$ of 2'-3" Safety Curbs.
LOAD FREQUENCY: CF = 2000 (57)
WEARING SURFACE: 1" monolithic concrete.
APPROACH SLABS: AS-1-54 (25'-0" Long)
ALIGNMENT: Tangent
SKEW: 20° R.F.
A.D.T. 17,160 (1980)
DRAINAGE AREA: 680 Sq. Miles
50 YEAR Q = 20,500 c.f.s.
BACKWATER: 0.2'
WATERWAY AREA Q_{50} = 3,150 Sq. Ft.

PREPARED BY
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.
FOR

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

SITE PLAN
BRIDGE NO. LAK-2-1652 L & R
RELOC. S.R. 2 OVER GRAND RIVER
LAKE COUNTY
STA. 772 + 03.61
STA. 774 + 68.39

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
	M. J. F.	F. W. B.	J. H. T.		



Dumped Rock Channel Protection along the face of abutments shall extend downward to the bottom of channel where the channel is in shale, and to an Elev. 2 feet below the bottom of the channel where the channel is not in shale.