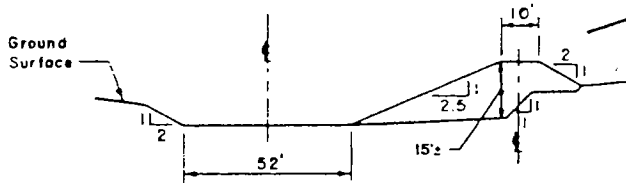
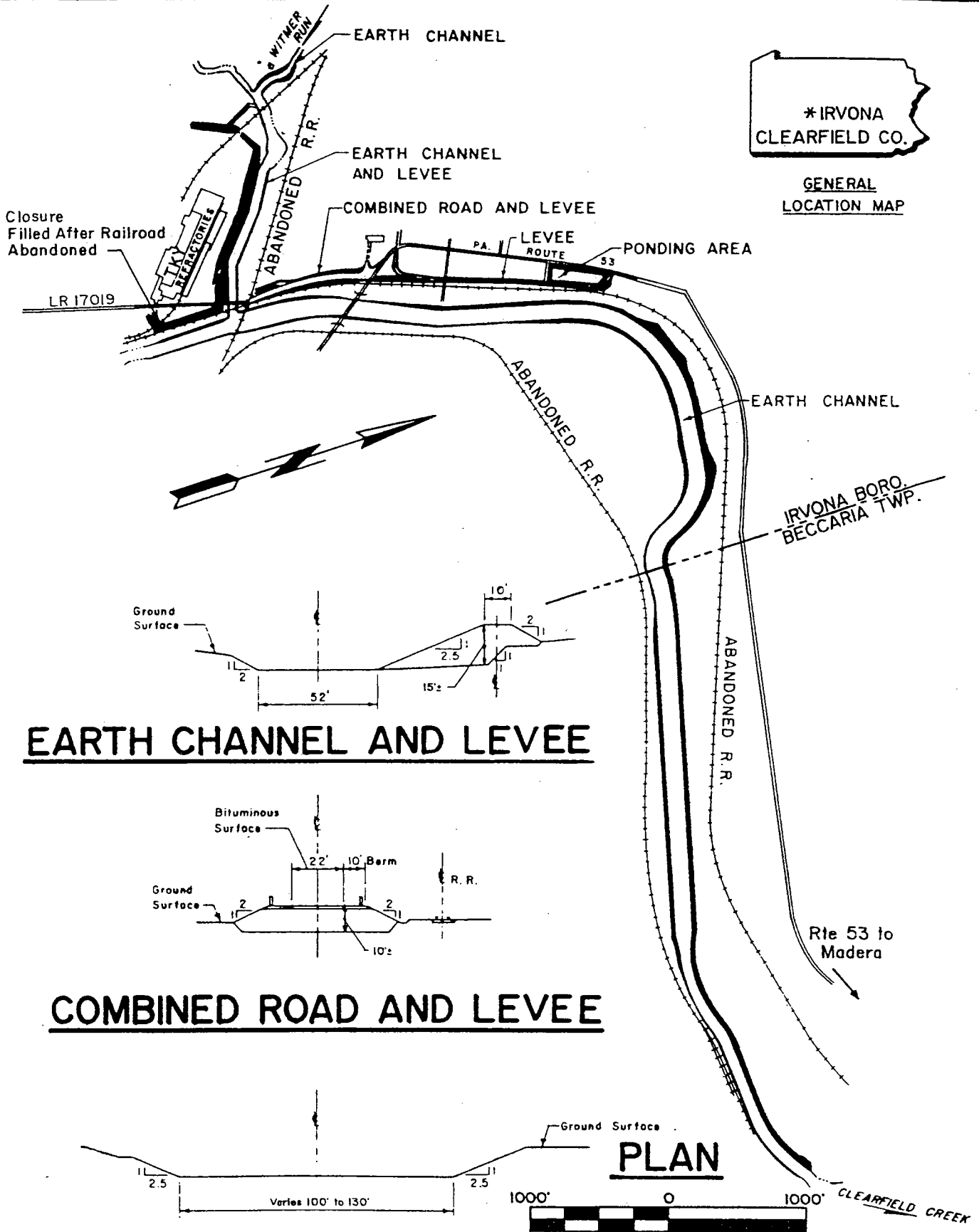
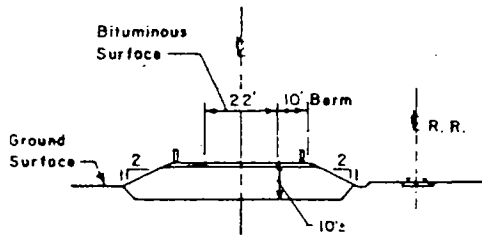


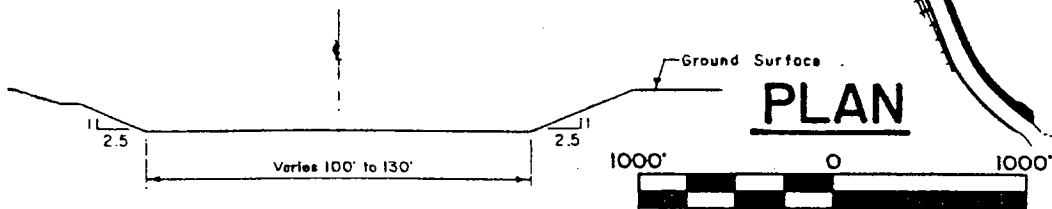
GENERAL
LOCATION MAP



EARTH CHANNEL AND LEVEE



COMBINED ROAD AND LEVEE



EARTH CHANNEL
TYPICAL CROSS SECTIONS

No Scale

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

C17:1
IRVONA
FLOOD PROTECTION

IRVONA FLOOD PROTECTION PROJECT, C17:1

LOCATION: Clearfield Creek & Witmer Run, Borough of Irvona and Beccaria Township, Clearfield County

QUADRANGLE: Irvona, **Latitude:** 40°46'30", **Longitude:** 78°32'40"

SPONSOR: Borough of Irvona

PROJECT DESCRIPTION: This project included improvement of Clearfield Creek channel for a reach of 9,800 feet (the upstream limits being about 500 feet above the confluence with Witmer Run); improvement of Witmer Run on reaches totalling 1,750 feet; and construction of earth levees with an average height of 6.4 feet along both streams for reaches totalling 4,900 feet. Approximately 900 feet of the levee was utilized by the Department of highways for location of Legislative Route 17019. Two sandbag closures and two stoplog closures were provided where grades of highways and railroads are adversely affected by full height levees. Five drainage structures and two ponding areas were also provided.

Contract C17:1-101.2 for drainage ditches, riprap channel slope protection, and corrugated metal pipe (CMP) inlets was bid on August 26, 1965 and awarded to Abriatis Construction Company, Emporium, Pa. on August 31, 1965. The project, consisting primarily of 2,082 C.Y. of excavation, 5,803 S.Y. of grading and seeding, 550 S.Y. of 12-inch riprap and 1,310 S.Y. of 12-inch grouted riprap gutters, was completed on July 29, 1966 at a cost of \$24,078.00.

DESIGNER: Department

CONTRACT NO.: C17:1-101.1

PERMIT NO.: E14505T-1

BID OPENING: June 6, 1962

CONTRACT AWARD: July 12, 1962

LOW BIDDER: Al. Monzo Construction Company, Monroeville, Pa.

PROJECT COMPLETED: August 31, 1964 **CONSTRUCTION COST:** \$359,780.51

DESIGN CRITERIA:

Drainage Area: 193 SM
(Glendale Dam controls 42 SM upstream of Irvona, reducing the effective drainage area to 151 SM)

Flood of Record (1936): 18,200 CFS (Estimated Discharge)

Design Discharge:

Clearfield Creek	18,000 CFS
Witmer Run	6,000 CFS

Channel Bottom Width:

Clearfield Creek	100-130 FT
Side slopes	1V to 2.5H
Witmer Run	40-60 FT
Side slopes	1V to 1.5H

FIS 100-Year Discharge:

Clearfield Creek	15,800 CFS
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QUANTITIES:

284,850	C.Y.	Excavation	126	C.Y.	Concrete
50,065	C.Y.	Rolled Embankment	1	EA.	Sand Bag Storage Shed
4,562	S.Y.	Dumped Riprap			

Project turned over to sponsor for operation and maintenance on October 22, 1964.