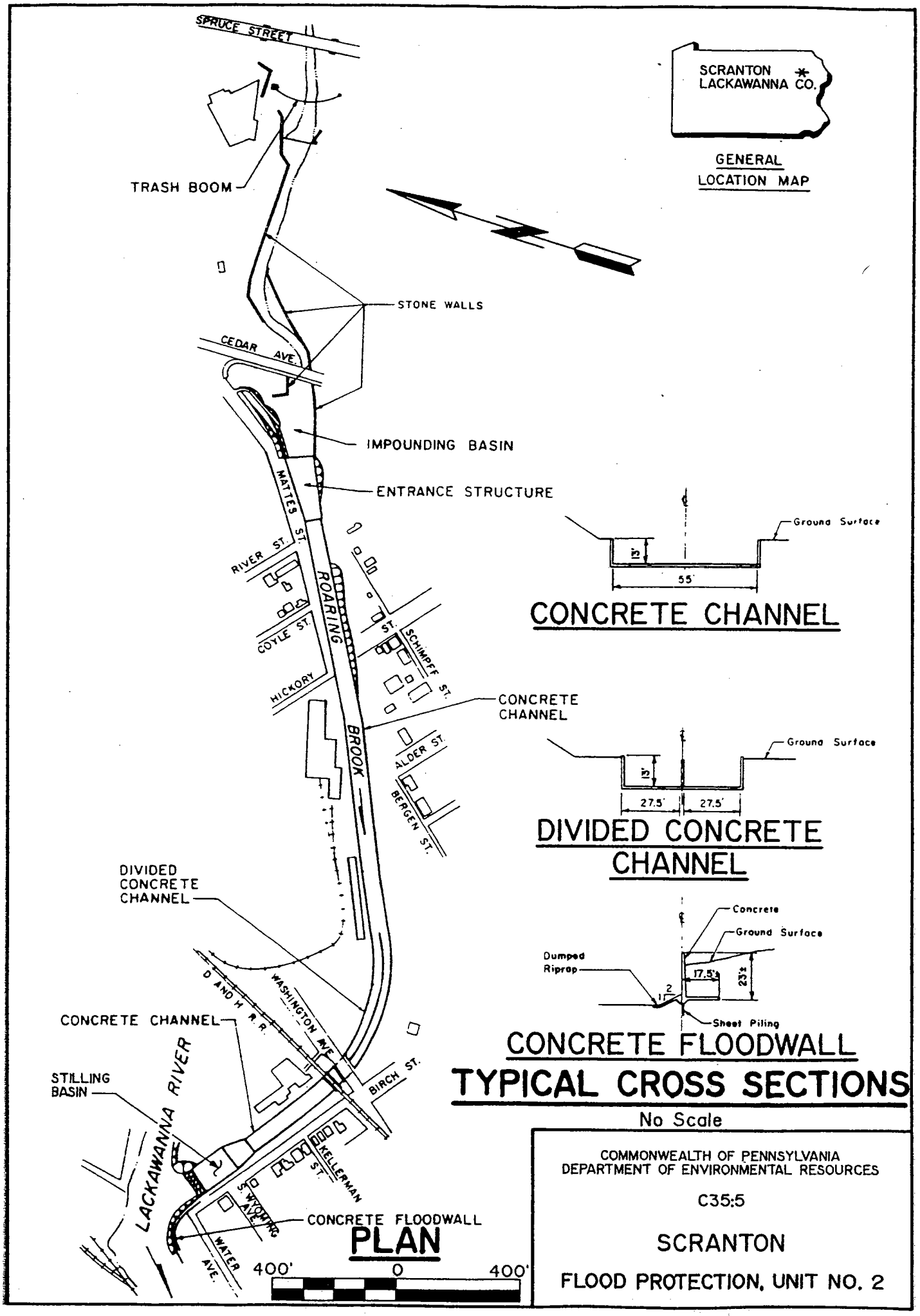
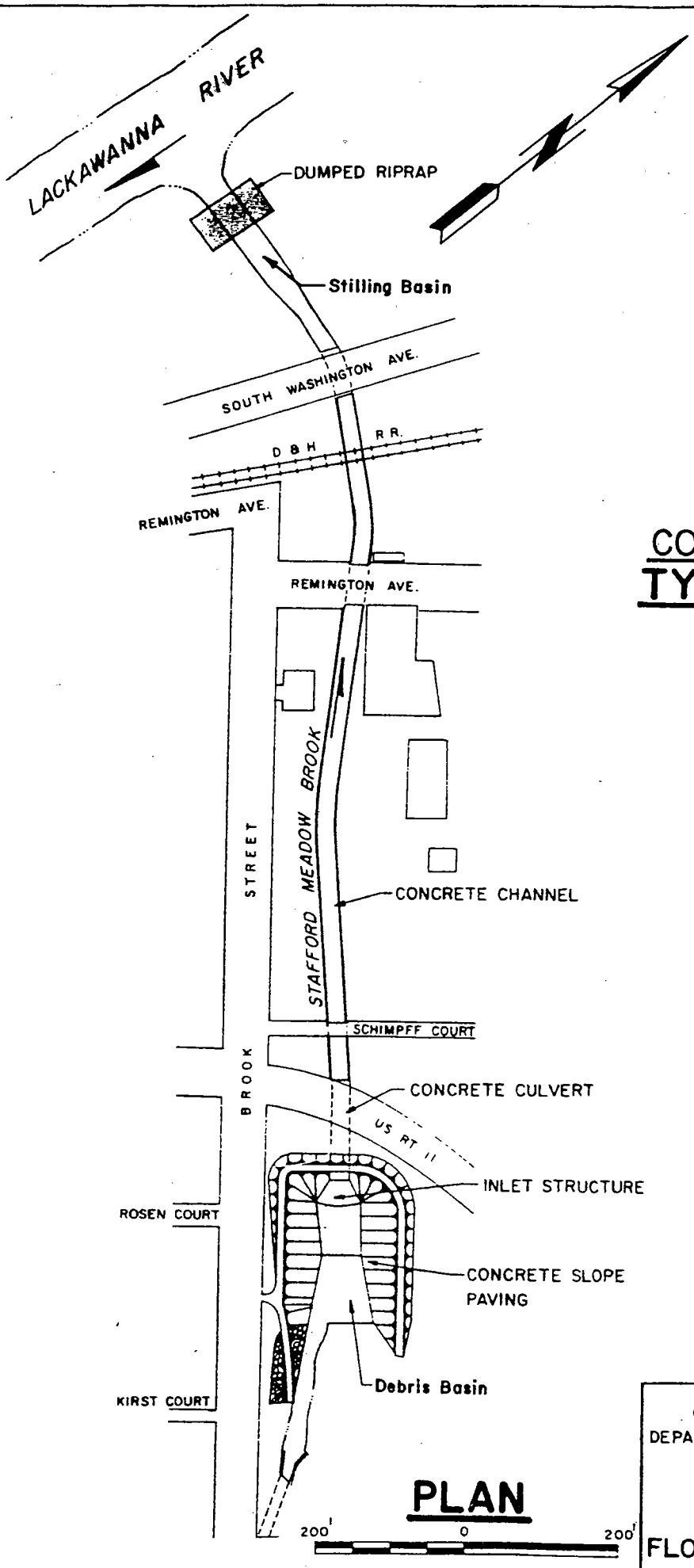
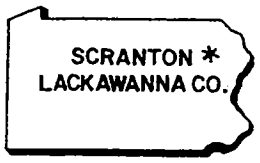
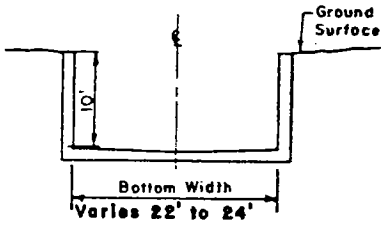

SPRUCE STREET
TRASH BOOM
STONE WALLS
CEDAR AVE.
IMPOUNDING BASIN
ENTRANCE STRUCTURE
MATTES ST.
RIVER ST.
COYLE ST.
HICKORY
ROARING BROOK
SCHIMPFF ST.
CONCRETE CHANNEL
ALDER ST.
BERGEN ST.
DIVIDED CONCRETE CHANNEL
D AND H R.R.
WASHINGTON AVE.
CONCRETE CHANNEL
STILLING BASIN
LACKAWANNA RIVER
BIRCH ST.
KELLERMAN ST.
S. WYOMING AVE.
WATER AVE.
CONCRETE FLOODWALL
PLAN
400' 0 400'
SCRANTON
LACKAWANNA CO.
GENERAL LOCATION MAP
Ground Surface
12'
55'
CONCRETE CHANNEL
Ground Surface
12'
27.5'
27.5'
DIVIDED CONCRETE CHANNEL
Concrete
Ground Surface
Dumped Riprap
17.5'
23'±
2
1
Sheet Piling
CONCRETE FLOODWALL
TYPICAL CROSS SECTIONS
No Scale
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
C35:5
SCRANTON
FLOOD PROTECTION, UNIT NO. 2



PLAN



GENERAL LOCATION MAP



CONCRETE CHANNEL TYPICAL SECTION

No scale

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

C35:5

SCRANTON

FLOOD PROTECTION, UNIT NO.4

SCRANTON FLOOD PROTECTION PROJECT, UNIT NO. 2, C35:5

LOCATION: Roaring Brook (Lower Flats Section), City of Scranton, Lackawanna County
QUADRANGLE: Scranton, **Latitude:** 41°24'00", **Longitude:** 75°40'00"
SPONSOR: City of Scranton

PROJECT DESCRIPTION: Unit No. 2 on Roaring Brook consisted of a reinforced concrete channel, rectangular in section, starting near the junction with the Lackawanna River and extending upstream for a distance of 2,619 feet, including a 185-foot long stilling basin at the downstream end and a 195-foot long entrance structure at the upper end. There is an impounding basin immediately upstream of the entrance structure. The basin is confined on the left side by previously existing masonry retaining walls and on the right by a new "L" type reinforced concrete floodwall with sheet steel piling cut-off. A trash boom lies across the channel 1,200 feet upstream of the intake structure to collect floating debris during floods. The channel, for the most part, has a width of 55 feet and a depth of 13 feet. At, and for a distance of 550 feet upstream of the D and H Railroad bridge, the channel is divided into two parts, each having a width of 27.5 feet.
NOTE: Unit No. 1, completed in 1961, consisted of deepening and widening the Lackawanna River from the downstream city limits to 2,800 feet upstream of Roaring Brook. Unit No. 1 has been superseded by a Corps of Engineers Project.
NOTE: Unit No. 3, completed in 1958, consisted of channel improvement along Roaring Brook from the railroad crossing downstream to Myrtle Street in the City's Petersburg Section. Unit No. 3 has been supplemented by SCS work following flooding in 1985.

DESIGNER: Bourquard, Geil and Associates, Harrisburg, Pa.
CONTRACT NO.: C35:5-102.1 **PERMIT NO.** Unknown
BID OPENING: November 25, 1958 **CONTRACT AWARD:** December 31, 1958
LOW BIDDER: H. I. Lewis Construction Company, Middletown, Pa.
PROJECT COMPLETED: June 1, 1961 **CONSTRUCTION COST:** $1,102,685.26

DESIGN CRITERIA:

Drainage Area:	58.3	SM
Discharge 8/17/55:	21,800	CFS
Design Discharge:	24,000	CFS
Design Velocity:	35	CFS
Minimum Freeboard:	1	FT
Velocity:		
Below Stilling Basin	14	FPS
FIS 100-Year Discharge:	13,800	CFS

QUANTITIES:

50,300	C.Y.	Excavation (All Types)	1	EA.	Floating Trash Boom
1,600	S.Y.	Dumped Riprap	1	AC.	Seeding
12,990	C.Y.	Concrete	1	EA.	36-Inch Dia. Sluice Gate
4,799	L.F.	Chain Link Fence			

Project turned over to sponsor for operation and maintenance on December 18, 1961.