UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

WATER-RESOURCES INVESTIGATIONS REPORT 87-4048
PLATE 2

GEOLOGIC UNITS

TRIASSIC AND JURASSIC — Upper Triassic and Lower Jurassic
- Jp — Palisade Diabase
- UNCONFORMITY
- JRnu — Newark Supergroup, undivided

UNCONFORMITY

PRECAMBRIAN AND CAMBRIAN — Late Proterozoic and Cambrian
- Os — Staten Island Serpentine of Merrill (1898, p. 21-31)
- UNCONFORMITY
- €Pm — Manhattan Schist

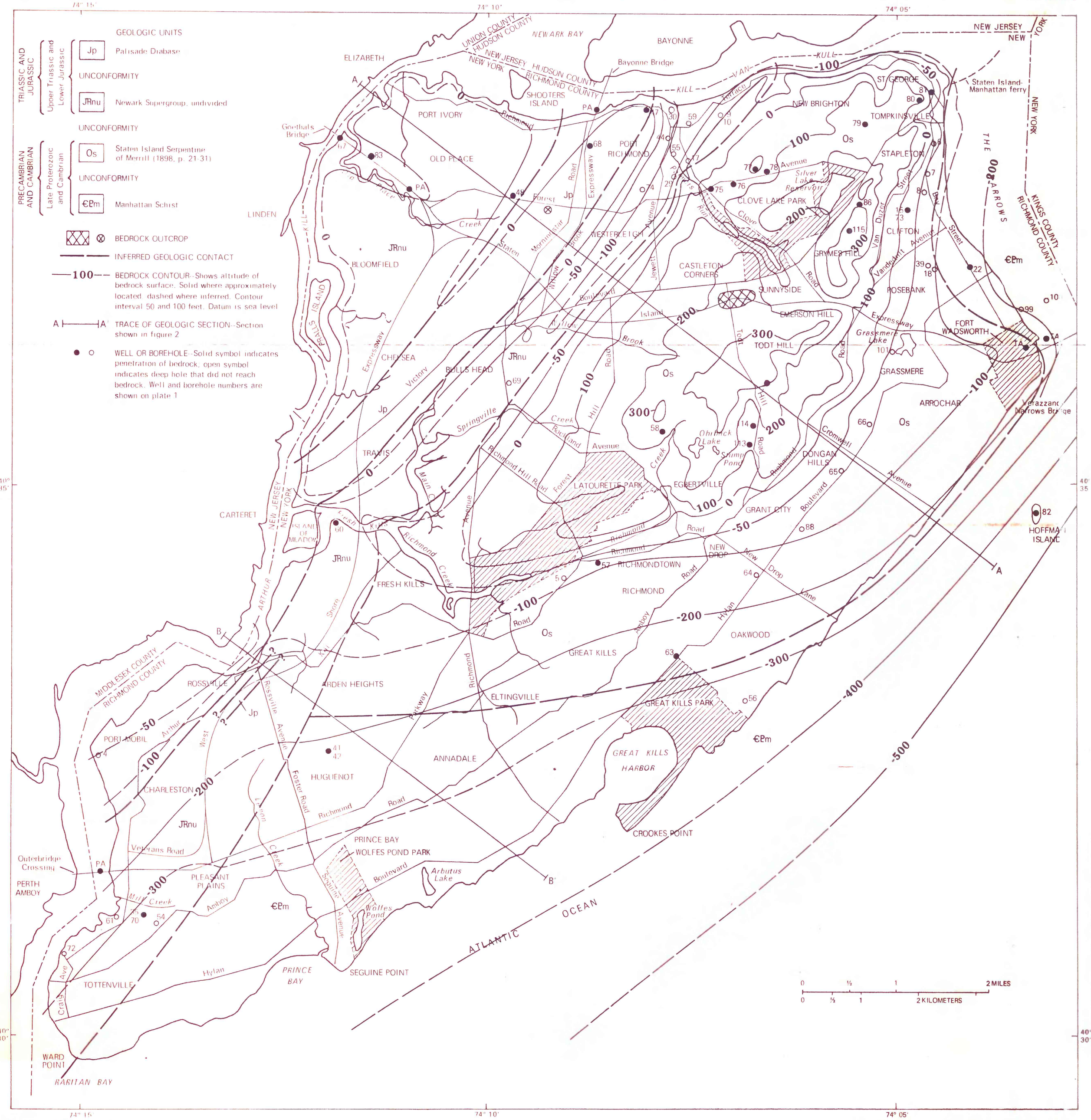
BEDROCK OUTCROP

INFERRED GEOLOGIC CONTACT

—100— BEDROCK CONTOUR--Shows altitude of bedrock surface. Solid where approximately located, dashed where inferred. Contour interval 50 and 100 feet. Datum is sea level

A — A' TRACE OF GEOLOGIC SECTION--Section shown in figure 2

● ○ WELL OR BOREHOLE--Solid symbol indicates penetration of bedrock; open symbol indicates deep hole that did not reach bedrock. Well and borehole numbers are shown on plate 1



Base from U.S. Geological Survey
Arthur Kill, NY-NJ, 1967; The Narrows, NY-NJ, 1967;
Elizabeth, NJ-NY, 1967; and Jersey City, NJ-NY, 1967, 1:24,000 scale

Paleotopography by Julian Soren, 1986; geologic map modified from Merrill and others (1902). Dashed -400 and -500 contours from Eric Declercq, U.S. Geological Survey (written commun., May 15, 1986)

PLATE 2 BEDROCK GEOLOGY OF STATEN ISLAND AND CONFIGURATION OF BEDROCK SURFACE