

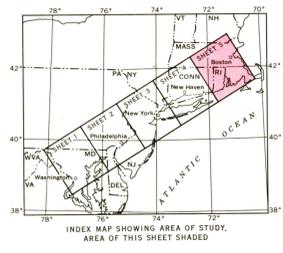
**EXPLANATION**  
See accompanying table for detailed descriptions and for engineering properties. Heavy border around box indicates unit present on this map. An asterisk (\*) precedes the explanation for symbols not present on this sheet.

**SURFICIAL DEPOSITS IN NORTHERN NEW JERSEY, SOUTHEASTERN NEW YORK, AND NEW ENGLAND**

- Qt**  
Till overlying bedrock  
Younger ground moraine
- Qto**  
Till overlying sand and gravel  
Younger ground moraine over outwash
- Qwt**  
Strongly weathered till and gravel  
Older glacial deposits
- Qsg**  
Till grading longitudinally into sand and gravel  
End moraines
- Qs**  
Sand and gravel  
Stratified glacial deposits and alluvium in valleys
- Qo**  
Sand containing some gravel  
Outwash plains
- Qb**  
Sand  
Beaches and dunes
- Qal**  
Sand, silt, clay, gravel, and organic material  
Alluvium, South of New York City, shown by stipples pattern
- Qsc**  
Silt, clay, and fine sand  
Lake-bottom deposits
- Qm**  
Silt, sand, clay, and organic material  
Marshes, swamps, estuaries, and artificial fill
- Lowland deposits**  
Base 0 to -100(?)  
feet elevation
- Intermediate deposits**  
Base 0 to 100 feet  
elevation
- Upland deposits**  
Base ranges from 100  
to 200 feet elevation
- Terrace deposits of varying thickness overlying Coastal Plain deposits and bedrock**
- Silt or clay within or beneath permeable surficial deposits; on Long Island, Staten Island, and in adjacent New Jersey, also includes Coastal Plain deposits beneath surficial deposits**

- Contact**  
Dotted where concealed
- Thalweg of buried valley**  
Number shows elevation of valley bottom, in feet, above or below sea level where data available. Dashed where approximately located
- Approximate boundary between fresh and salty ground water in the Potomac-Raritan-Magothy aquifers**  
Shows maximum advance of salt water in the Coastal Plain
- F** Through Coastal Plain deposits; sections shown on sheets 1, 2, 3, and 4
- HH** Through surficial deposits; sections shown on sheet 6
- Line of section**

- \*Contour on bottom of Long Island Sound**  
Contour drawn from depth-of-water data on U.S. Coast and Geodetic Survey charts 1211-1212. Contour interval 50 feet. Datum is mean low water
- \*Contours on surface of bedrock or Coastal Plain deposits beneath Long Island Sound**  
Contours modified from those drawn by Mariel Smith from sparker traverses by the Lamont Geological Observatory, Palisades, New York. Contour interval 100 feet. Datum is mean low water



**ENGINEERING GEOLOGY OF THE NORTHEAST CORRIDOR, WASHINGTON, D.C., TO BOSTON, MASSACHUSETTS  
COASTAL PLAIN AND SURFICIAL GEOLOGY**

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