

EXPLANATION  
The map units are based on lithology and do not imply stratigraphic succession. See accompanying table for detailed descriptions and engineering properties. Heavy border around box indicates unit present on this map.

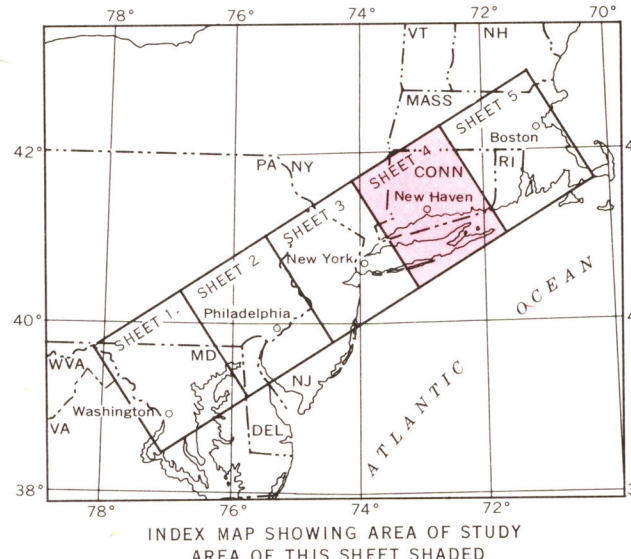
- 24  
Conglomerate (fanglomerate)
- 23  
Basalt flows, diabase dikes, and sills
- 22  
Chiefly red sandstone and shale with conglomerate
- 21  
Black shale, mudstone, and siltstone  
*Locally well cemented and very hard*
- 20  
Chiefly red shale
- 19  
Conglomerate  
*Relatively unmetamorphosed; well cemented and hard*
- 18  
Shale and limestone  
*Relatively unmetamorphosed*
- 17  
Sandstone and shale  
*Relatively unmetamorphosed*
- 16  
Volcanic rocks  
*Commonly altered and slightly metamorphosed; includes felsite, rhyolite, and local andesite, basalt, and porphyry*
- 15  
Greenstone
- 14  
Argillite, siliceous shale, slaty shale, slate, phyllite, and fine-grained schist
- 13  
Gneiss and schist  
*Typically massive and granitic in appearance, containing pebbles to boulder-size fragments*
- 12  
Fine-grained mica schist, chlorite schist, and phyllite with interbedded sequences of micaceous quartzite
- 11  
Mica schist and mica gneiss, medium to coarsely crystalline
- 10  
Marble, crystalline limestone, and dolomite
- 9  
Quartzite, with interbedded conglomerate, schist, and gneiss
- 8  
Anorthosite
- 7  
Serpentine, steatite, and related ultramafic and gabbroic rocks
- 6  
Massive to gneissic granitic rocks  
*Range in composition from quartz diorite to granite*
- 5  
Quartz gabbro, diorite, dark quartz diorite, and their low-grade metamorphic equivalents
- 4  
Gabbro, norite, and massive to weakly-foliated metagabbro  
*Includes some ultramafic rocks*
- 3  
Layered gneiss  
*Strongly layered; layers differ sharply in composition. Mineralogy depends on degree of metamorphism. Includes interbedded amphibolite, hypersthene granulite, quartz-plagioclase gneiss, biotite-quartz-feldspar gneiss, mica schist, greenstone, and schistose felsite*
- 2  
Amphibolite, epidote amphibolite, and well-foliated metagabbro
- 1  
Biotite-quartz-feldspar gneiss with associated migmatite, granulite, amphibolite, and granitic rocks
- Coastal Plain deposits  
*Shown in section only*
- Contact  
*Dotted where concealed; omitted within the mapped area where sources of data differ*
- Fault  
*Dashed where approximately located; dotted where concealed; queried where probable but unproved*
- Thrust fault  
*Sawtooth on upper plate*
- Contours on bedrock surface beneath Coastal Plain deposits. Contour intervals 100, and 200 feet; datum is mean sea level

Base by U.S. Geological Survey

SCALE 1:250,000

CONTOUR INTERVALS 50 AND 100 FEET  
WITH SUPPLEMENTARY CONTOURS AT 25 FOOT INTERVALS  
DATUM IS MEAN SEA LEVEL

Geology compiled by H. E. Simpson, R. M. Barker, and K. V. Dietrich; contours on bedrock surface compiled by H. E. Gill, John Walker, and H. R. Scholl

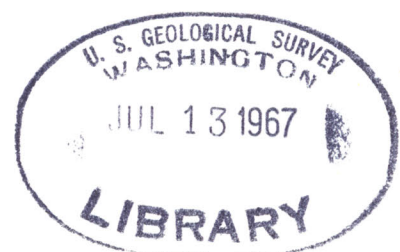


## ENGINEERING GEOLOGY OF THE NORTHEAST CORRIDOR, WASHINGTON, D.C., TO BOSTON, MASSACHUSETTS

### BEDROCK GEOLOGY

Prepared by the  
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1967

Text in  
(200)  
A 38 mg



United States (Northeast Corridor).  
sheet 4,  
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Geol. 1:250,000.



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Sheet 4

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