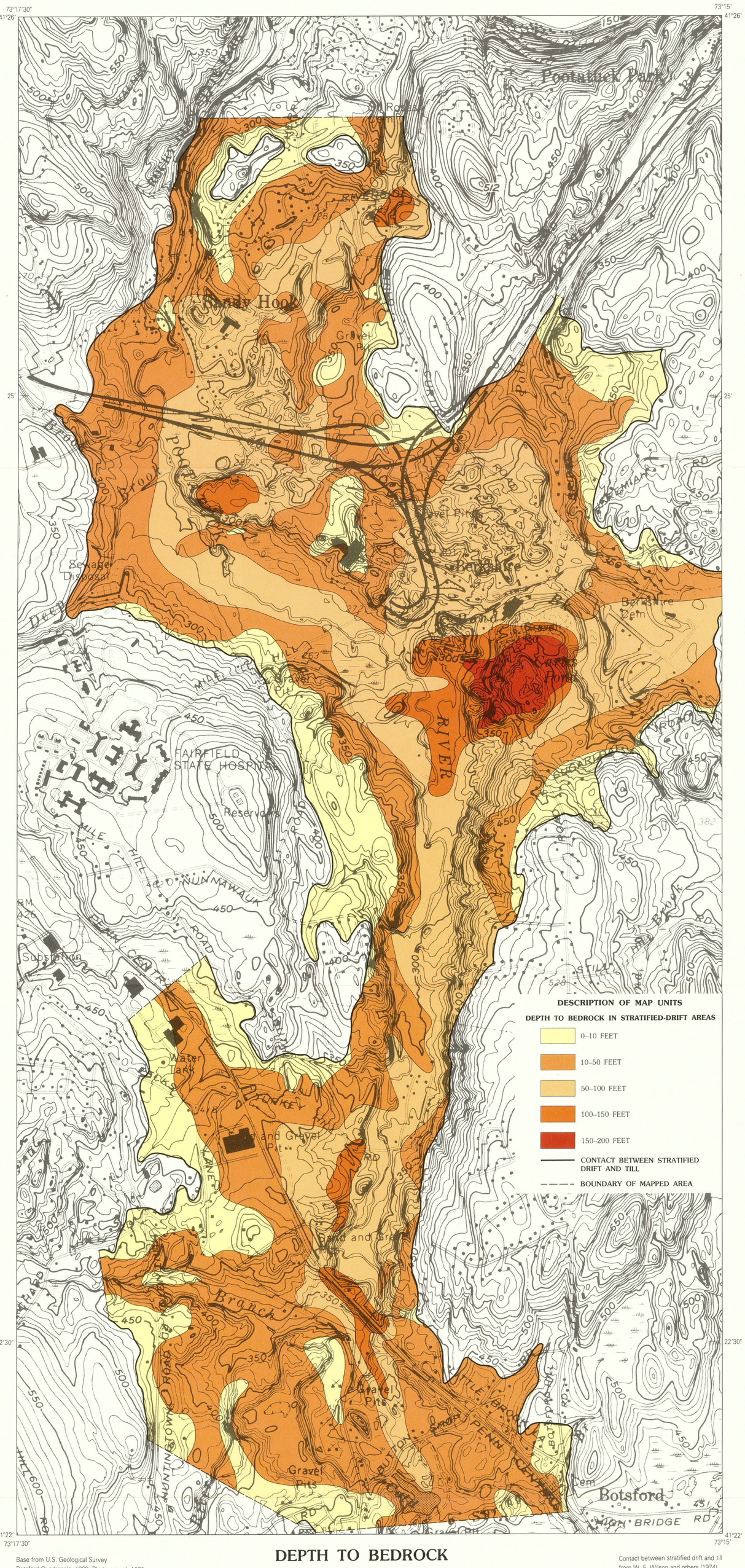
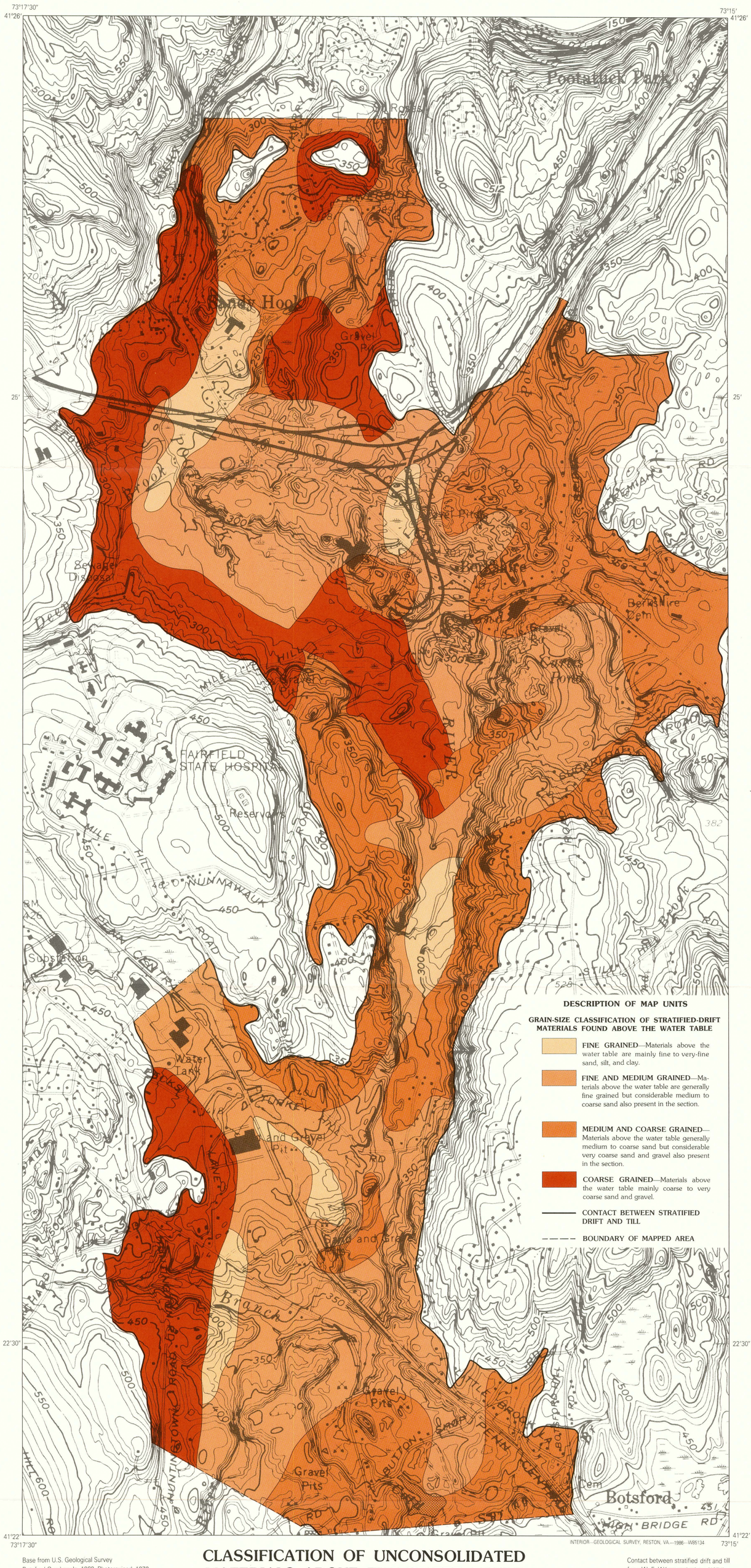


Base from U.S. Geological Survey
Botsford Quadrangle, 1969, Photorevised, 1972
Newtown Quadrangle, 1963, Photorevised, 1972

DEPTH TO BEDROCK

Contact between stratified drift and till from W. E. Wilson and others (1974)



Base from U.S. Geological Survey
Botsford Quadrangle, 1969, Photorevised, 1972
Newtown Quadrangle, 1963, Photorevised, 1972

CLASSIFICATION OF UNCONSOLIDATED MATERIALS ABOVE THE WATER TABLE

Contact between stratified drift and till from W. E. Wilson and others (1974)

INTERIOR—GEOLOGICAL SURVEY, RESTON, VA.—1986—W85134

SCALE 1:12 000

½ 0 ½ MILE

.5 0 .5 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

EXPLANATION

Maps show depth to bedrock and the general particle-size composition of unconsolidated materials above the water table in stratified-drift areas of part of the Pootatuck River valley, Newtown, Connecticut. Depths to bedrock are shown in feet below land surface. Unconsolidated materials include stratified-drift, flood-plain, and stream-terrace deposits. Map units describing the particle-size composition of stratified drift are based primarily on geologists' and drillers' descriptions of unconsolidated materials found in test holes and wells. Terms used to describe these materials (gravel, sand, silt, and clay) generally correspond to the particle-size classification developed by Wentworth (1922) as shown in the adjacent diagram.

PARTICLE-SIZE CLASSIFICATION TERMS USED IN THIS REPORT

Average Diameter (millimeter)	2	1	0.5	0.25	0.125	0.063	0.004
TERM	Very Coarse	Coarse	Medium	Fine	Very Fine	Silt	Clay
	Gravel		Sand				
	COARSE		MEDIUM		FINE		

Data used to construct the two maps were obtained from previous hydrogeologic reports (Grossman and Wilson, 1970; Wilson and others, 1974; and Haeni, 1978) from a geologic map of the Newtown quadrangle (Stanley and Caldwell, 1976) and from unpublished geologic field notes (Woodrow B. Thompson, Maine Geological Survey, written commun., 1982). The data from these sources differ considerably in completeness and geographic distribution. Actual depths to bedrock and the grain-size distribution of stratified drift, in places, may differ from the ranges defined in the descriptions of the map units that accompany each map. **THESE MAPS GENERALLY DESCRIBE THE DEPTH-TO-BEDROCK AND TYPE OF MATERIAL THAT CAN BE EXPECTED IN AN AREA. THEY ARE NOT INTENDED TO BE SUBSTITUTES FOR DETAILED SITE INVESTIGATIONS.**

REFERENCES

Grossman, I. G., and Wilson, W. E., 1970, Hydrogeologic data for the lower Housatonic River basin, Connecticut: Connecticut Water Resources Bulletin 20, 50 p.

Haeni, F. P., 1978, Computer modeling of ground-water availability in the Pootatuck River valley, Newtown, Connecticut, with a section on quality of water by Elinor H. Handman: U.S. Geological Survey Water Resources Investigations Open-File Report 78–77, 64 p.

Stanley, R. S., and Caldwell, K. G., 1976, The bedrock geology of the Newtown quadrangle: Connecticut Geological and Natural History Survey Quadrangle Report 33, 43 p.

Wentworth, C. K., 1922, A scale of grade and class terms for clastic sediments: Journal of Geology, v. 30, p. 377–392.

Wilson, W. E., Burke, E. L., and Thomas, C. E., Jr., 1974, Water resources inventory of Connecticut, part 5, lower Housatonic River basin: Connecticut Water Resources Bulletin 19, 79 p.

DEPTH TO BEDROCK AND CLASSIFICATION OF UNCONSOLIDATED MATERIALS ABOVE THE WATER TABLE IN STRATIFIED-DRIFT AREAS OF PART OF THE POOTATUCK RIVER VALLEY, NEWTOWN, CONNECTICUT

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1986

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