

The units on this map indicate the presence of substantial material of substantial thickness (generally greater than 3 feet) encountered beneath the soil layer. The soil layer (commonly a foot or two thick) is not mapped. Other materials, different in composition, may underlie each map unit (see cross sections) or may occur as minor lenses within each map unit.

THIS MAP SHOULD NOT BE USED AS A
SUBSTITUTE FOR ONSITE INVESTIGATION.

Most unconsolidated materials are mixtures of the three particle-size classes defined in the diagram below. This diagram also relates these three size classifications to the Wentworth classification (Wentworth, 1922) which can be compared with other classifications used in engineering and soil science.

PARTICLE-SIZE CLASSIFICATION										
Classification used in this report (Diameter, in inches)										
			0.08				0.005			
COARSE			MEDIUM				FINE			
Boulders	Cobbles	Pebbles	Gravels	vc	c	m	s	ft	Silt	Clay
	256	64					1/8	1/16		1/256
Wentworth classification Diameter, in millimeters										

Materials mapping involves a visual estimate of particle-size distribution in a deposit by the field geologist. Percentages of particle sizes therefore may vary somewhat from place to place beyond the limits defined in the map units below.

sg

SAND AND GRAVEL

Particle sizes range from 100 percent coarse to 25 percent coarse and 75 percent medium

SAND

Particle sizes range from 25 percent coarse and 75 percent medium through 100 percent medium to 50 percent medium and 50 percent fine

[illegible]

TILL (HARDPAN)

Particle sizes range from coarse to fine in varying proportions. Some till, averaging less than 10 feet thick, is sandy, loose, and very stony; other till, commonly more than 10 feet thick, is less sandy, very compact, and less stony. Where these tills occur together, the sandy, loose till is always on top

SW

SWAMP DEPOSITS

13 Undecomposed to partly decomposed organic matter, generally mixed or interbedded with varying amounts of fine, medium, and coarse particles. Extent and thickness of most swamp deposits is poorly known. $\frac{SW}{T}$ indicates areas where till underlies swamp deposits

sr

SLIDE ROCK (TALUS)

Large angular rock fragments at the base
of cliffs; locally contains organic
matter and silt

af	/	aft
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ARTIFICIAL FILL

Fill for highways, solid-waste disposal,
and other major construction
af, predominantly earth fill
aft, predominantly trash fill

ROCK (LEDGE) OUTC

Bedrock exposed at ground surface; may be partly covered by thin soil. Ruled pattern shows areas of small, closely-spaced outcrops

W

WATER BODIES

In general, lakes and ponds greater than 5 acres, or streams wider than 200 feet

REFERENCES CITED

Schnabel, R. W., 1970, Preliminary surficial map of the New Hartford quadrangle, Litchfield and Hartford Counties, Connecticut: U.S. Geol. Survey open-file rept. (scale

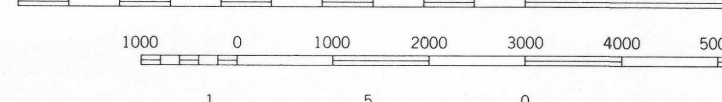
Wentworth, C. K., 1922, A scale of grade and class terms for clastic sediments: Jour. Geology, v. 30, p. 377-392.

Base from U.S. Geological survey, 1956; photorevised 1971

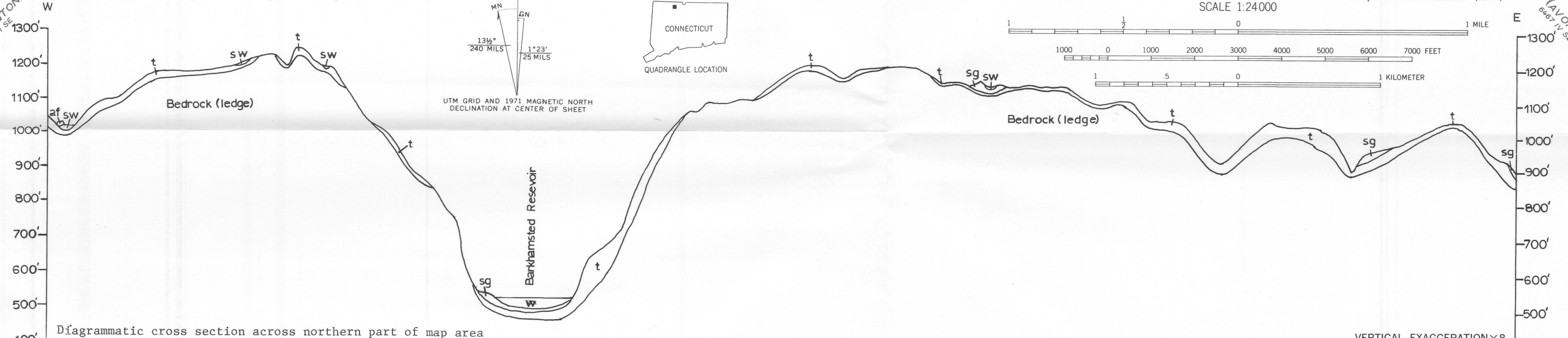


Diagram illustrating the relationship between Grid North (GN), Magnetic North (MN), and True North (TN). The angle between GN and MN is $13\frac{1}{2}^\circ$ (240 MILS). The angle between MN and TN is $1^\circ 23'$ (25 MILS).

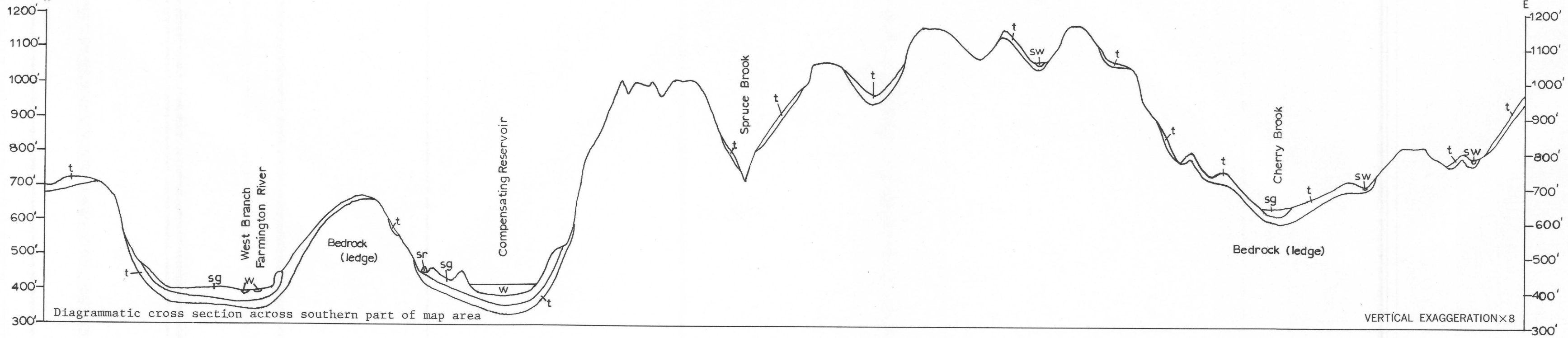
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64



VERTICAL EXAGGERATION $\times 8$



VERTICAL EXAGGERATION $\times 8$

MAP SHOWING UNCONSOLIDATED MATERIALS, NEW HARTFORD QUADRANGLE, CONNECTICUT

By
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1973