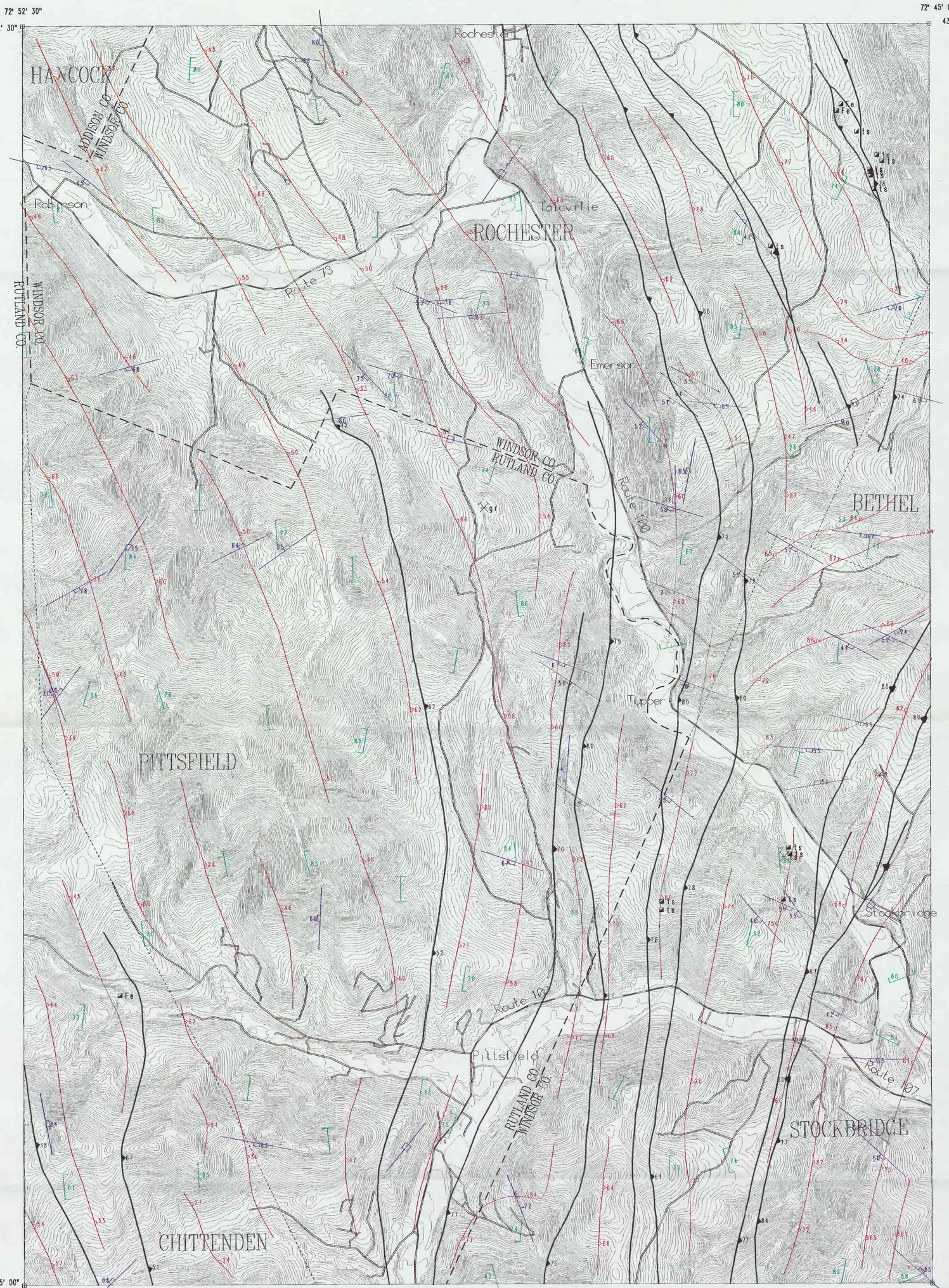
U.S. Department of the Interior
U.S. Geological Survey

Prepared in cooperation with the
STATE OF VERMONT, GEOLOGICAL SURVEY

OPEN-FILE REPORT 96-33-A
STRUCTURE MAP
PLATE 2 of 2



Topography from the Rochester, VT quadrangle (1970 edition)
Contour interval 20 feet
Map projection is polyconic
Digital map units in State Plane Coordinate System
National Geodetic Horizontal Datum of 1927
Roads from the Vermont Center for Geographic Information, Inc.

SCALE 1:24000

1 .5 0 1 K

1 .5 0 1 MILE

MN N

Approximate Mean Declination
15°30' West, 1988

Geology mapped by Walsh in 1993 and 1994, and Falta in 1988.
Digitized by Walsh and Thomas Merrifield[3].

Explanation of Map Symbols

Foliation (Schistosity)
- 70 — Strike and dip of inclined foliation on interpretive form-lines
- Strike and dip of vertical foliation on interpretive form-lines

Brittle Features
- Relative lateral displacement of brittle fault
- 86 — Strike and dip of inclined brittle fault
- 75 — Strike and dip of inclined joint
- Strike and dip of vertical joint

Cleavage
- 73 — Strike and dip of inclined cleavage
- Strike and dip of vertical cleavage

Thrust Faults
- 75 — Strike and dip of thrust fault
- Strike and dip of overturned thrust fault -- teeth show dip, bar on upper plate

Quarries and Mines
- ts — Talc & Serpentinite
- Fe — Iron
- gr — Granite
- Inactive quarry
- Inactive mine

Plates 1 and 2 are a paper representation of the digital bedrock geologic information for the Rochester Quadrangle located in Rutland, Windsor, and Addison counties, Vermont. All of the bedrock geology data were obtained from Walsh and Falta (1996), and were digitally compiled on a personal computer system using PC ARC/INFO version 3.4D Plus by Environmental Systems Research Institute, Inc.. The data shown on Plate 1 were exported to ARC/INFO version 7.0 where solid color fill patterns were generated, and faults were drawn using symbols from a lineset (alcnew61.lin) from ALACARTE software (Fitzgibbon and Wentworth, 1991). The compilation procedures discussed in Walsh and others (1994) were used in the preparation of this report, with the exception of the topography. The topography was obtained from a photographic negative separate of contour lines from the Rochester, VT (1970 edition) U.S.G.S. 7.5-minute topographic quadrangle. The negative was scanned on an IDEAL FSS 8000 raster-format scanner. The raster image was vectorized using GTX OSR Contour version 2.00 by GTX Corporation, Inc., and converted into an unattributed line coverage in ARC/INFO version 7.0.

These plates are derivative products and should not serve as the primary source for the complete geologic information for this area; the correct reference should be number 2 below:

1. Fitzgibbon, T.T., and Wentworth, C.M., 1991, ALACARTE user interface: AML code and demonstration maps, Version 1.0: U.S. Geological Survey Open-File Report 91-587.

2. Walsh, G.J., and Falta, C.K., 1996, Preliminary bedrock geologic map of the Rochester Quadrangle, Rutland, Windsor, and Addison counties, Vermont: U.S. Geological Survey Open-File Report 96-25, scale 1:24000.

3. Walsh, G.J., Ratcliffe, N.M., Dudley, J.B., and Merrifield, T., 1994,Digital bedrock geologic map of the Mount Holly and Ludlow quadrangles,Vermont: U.S. Geological Survey Open-File Report 94-229, scale 1:24000.

LOCATION OF MAP

Digital Bedrock Geologic Map of the Rochester Quadrangle, Vermont

by

G.J. Walsh[1] and C.K. Falta[2]

1996

AFFILIATIONS:
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[2]Englewood High School,
Denver, Colorado 80210
[3]Vermont Agency of Natural Resources,
Vermont Geological Survey,
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Waterbury, Vermont 05671

Plates 1 and 2 are part A and the database is part B of this Open-File Report. Both parts are available from the Vermont Geological Survey, telephone (802) 241-3488.