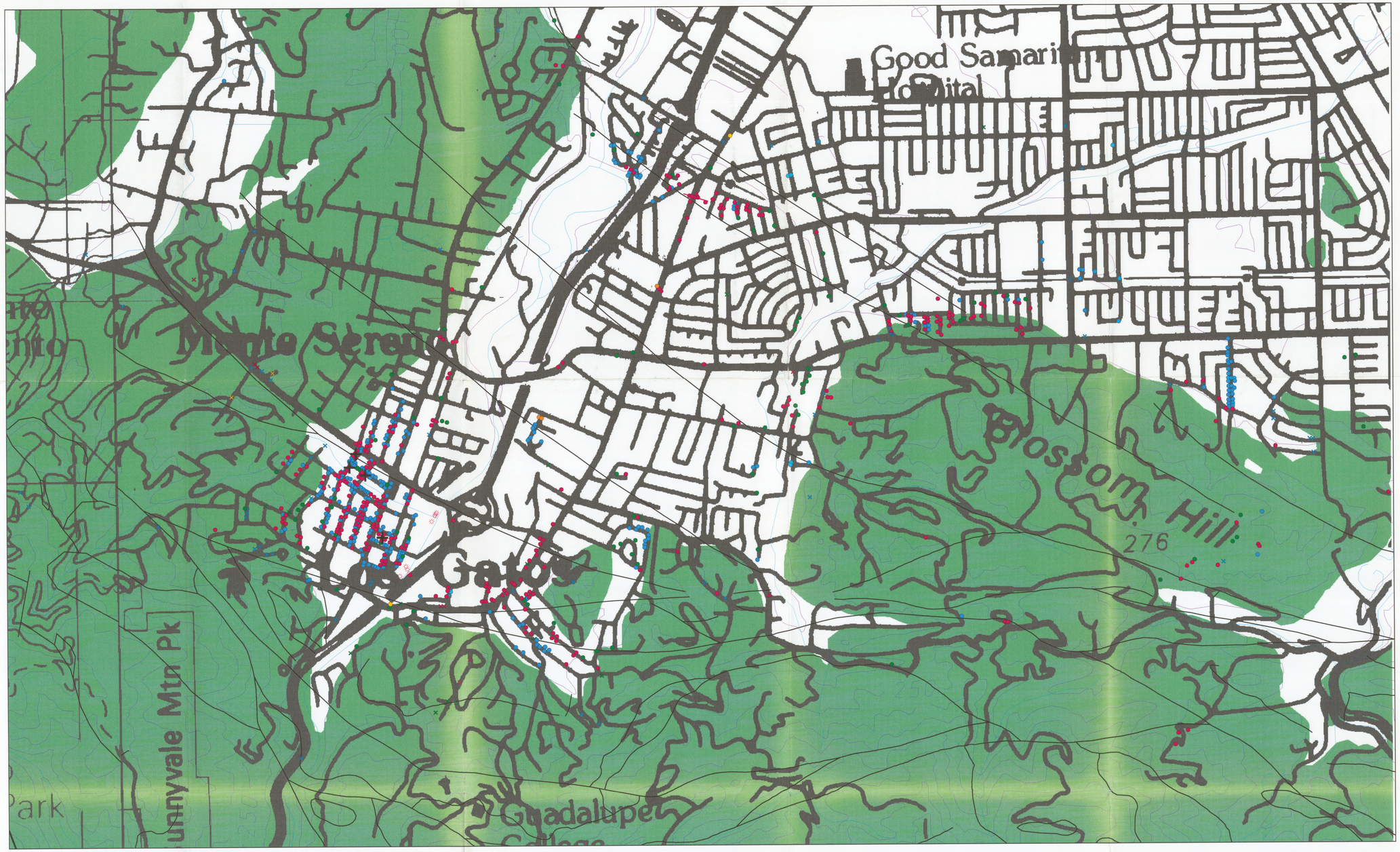
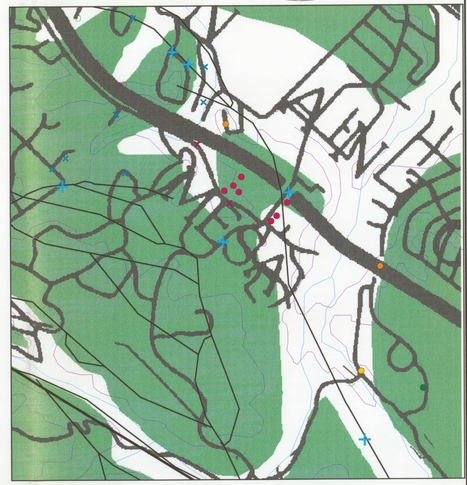
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Plate 2 of 2
Pamphlet accompanies map





Los Altos - Cupertino Zone (near Los Altos Hills)

Los Altos - Cupertino Zone (in Cupertino)

Los Gatos and Blossom Hill Zones

CATEGORIES OF DAMAGE

Number of damage sites shown in brackets [ ].
See accompanying text for explanation.

COSEISMIC PAVEMENT BREAKS

IN ASPHALT

- Linear zone of complex rupture; denotes area of severe damage (Reported by USGS) [3]
- Fresh break or buckle suggestive of contractional deformation (Reported by USGS and JCP Engineers and Geologists, Inc.) [11]
- Fresh break with unspecified sense of deformation (Reported by USGS and local governments) [25]

IN CONCRETE

- Fresh contractional break in channel lining of Los Gatos Creek (Reported by USGS) [8]
- Fresh break or buckle suggestive of contractional deformation (Reported by USGS; some also reported by local governments) [164]
- Apparently fresh break with unspecified sense of deformation (Reported by USGS; some also reported by local governments) [171]
- Break with unspecified sense of deformation (Reported by local governments) [273]

IN BOTH ASPHALT AND CONCRETE
(Reported by USGS and local governments) [7]

EXTENSIONAL RUPTURE IN BOTH PAVEMENT AND NATURAL SOIL
(Reported by W.F. Cole of William Cotton & Assoc. and D.H. Sorg of USGS) [7]

COSEISMIC PIPE BREAKS

- Underground water line (Reported by local governments, utility companies, and USGS) [280]
- Underground natural-gas distribution line (Reported by utility companies and local government) [47]
- Above-ground natural-gas distribution line (Reported by utility company) [60]
- More than one type of pipe (Reported by utility companies, local governments, and USGS) [3]

OTHER BREAKS

- In both pipe and pavement (Reported by USGS, utility companies, and local governments) [9]
- Pavement break that pre-dates the earthquake (Reported by USGS) [6]
- Combination of pre-earthquake and coseismic break in pavement (Reported by USGS and local governments) [4]
- Contractional deformation that post-dates the earthquake (Reported by USGS) [4]

OTHER SYMBOLS

- Fault (from Brabb and others, in progress; and Wentworth and others, in progress)
- Limit of investigation - Within this boundary, all agencies responsible for the kinds of breaks listed above contributed available information
- Hillside area underlain by bedrock (from Wentworth, 1993)

Projection: UTM
base: Palo Alto and San Jose 100k base, UTM
GIS by D.L. Knifong
G. Phelps
K.M. Schmidt

SCALE 1:50000

1 0 1 MILES
1 0 1 KILOMETERS
0 1 2 3 THOUSAND FEET

Map of Pavement and Pipe Breaks As Indicators of Range-Front Faulting Resulting From the 1989 Loma Prieta Earthquake

By

Kevin M. Schmidt, Stephen D. Ellen, Ralph A. Haugerud, David M. Peterson

contour interval 50 meters

1995

Schmidt and others (1995)

USGS OFR 95-820