



EXPLANATION

Note: see U.S. Geological Survey Misc. Field Studies Map MF-519 (Preliminary photointerpretation map of landslide and other surficial deposits of the Livermore and part of the Hayward 15-minute quadrangles, Alameda and Contra Costa Counties, California, by Tor H. Nilsen, 1973) for a more detailed explanation of map symbols.

- Landslide deposit  
Arrows indicate general direction of downslope movement. Queried where uncertain.
- Alluvial deposit
- Alluvial terrace deposit  
Queried where uncertain
- Colluvial deposit and/or small alluvial fan deposit
- Bedrock  
Queried where identification uncertain

Maped, edited, and published by the Geological Survey with cooperation by the California Department of Water Resources Control by USGS, USC&GS, Alameda County, and State of California  
Topography from aerial photographs by photogrammetric methods  
Aerial photographs taken 1949. Field check 1953  
Revised from aerial photographs taken 1960. Field check 1965  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on California coordinate system, zone 3  
1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue

SCALE 1:24,000  
CONTOUR INTERVAL 20 FEET  
DOTTED LINES REPRESENT 10-FOOT CONTOURS  
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION  
Heavy-duty ——— Light-duty  
Medium-duty ——— Unimproved dirt  
○ Interstate Route □ U.S. Route ○ State Route

LIVERMORE, CALIF.  
NE 4 LIVERMORE 15 QUADRANGLE  
N3737.5—W12145.7.5  
1961  
PHOTOREVISED 1968  
AMS 1659 III NE SERIES V895

Red tint indicates areas in which only landmark buildings are shown  
Red dashed lines indicate selected fence lines  
Data shown in purple compiled from aerial photographs taken 1968. This information not field checked  
Purple tint indicates extension of urban areas

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

PRELIMINARY PHOTOINTERPRETATION MAP OF LANDSLIDE AND OTHER SURFICIAL DEPOSITS OF THE LIVERMORE 7 1/2' QUADRANGLE, ALAMEDA COUNTY, CALIFORNIA

by  
Tor H. Nilsen  
1975

THIS MAP IS PRELIMINARY AND HAS NOT BEEN EDITED OR REVIEWED FOR CONFORMITY WITH U.S. GEOLOGICAL SURVEY STANDARDS AND NOMENCLATURE

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