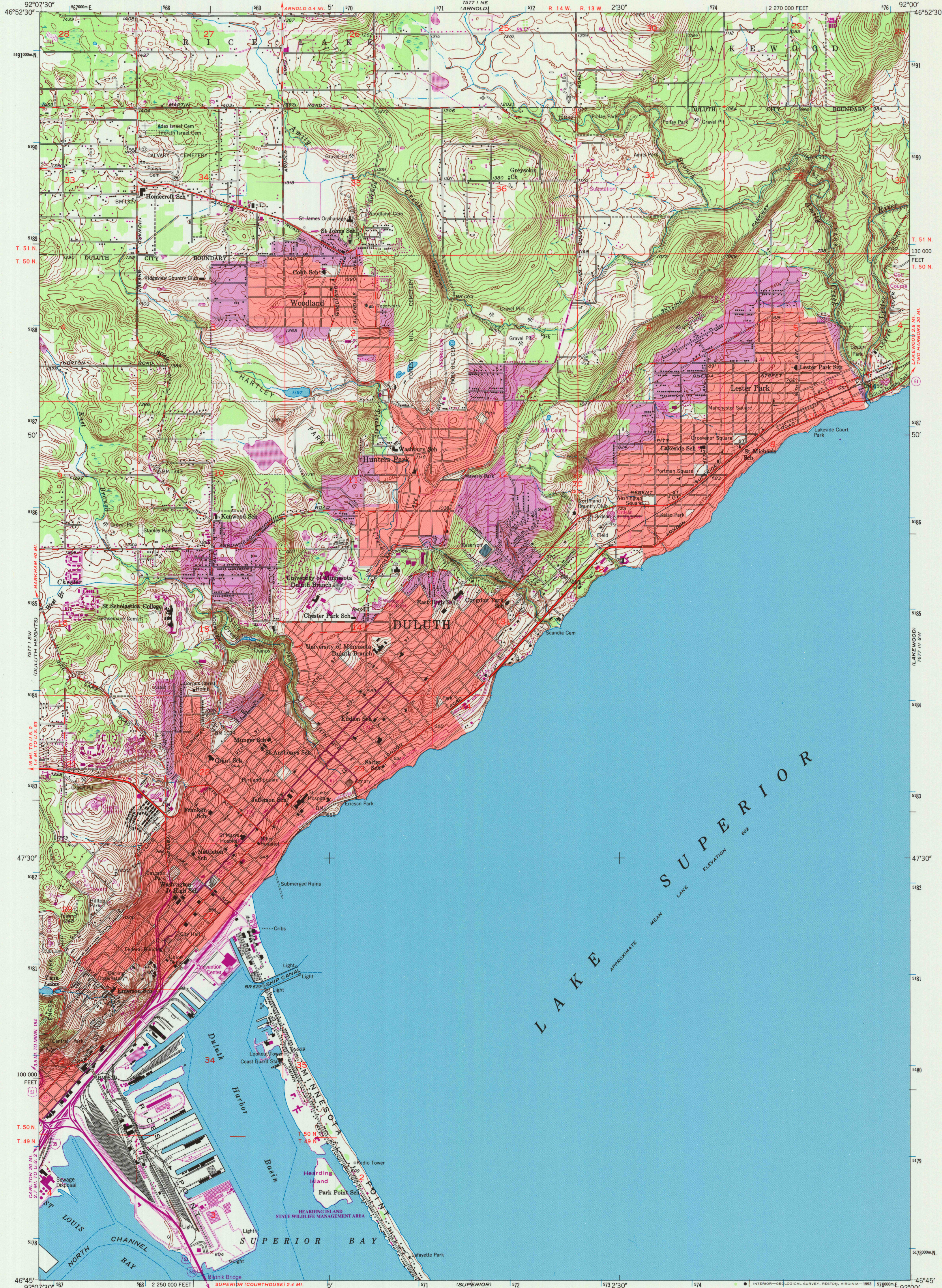


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DULUTH QUADRANGLE
MINNESOTA-ST. LOUIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 DULUTH 15' QUADRANGLE



Produced by the United States Geological Survey

Control by USGS, NOS/NOAA, and U.S. Lake Survey
Topography by photogrammetric methods from aerial photographs
taken 1952. Field checked 1953

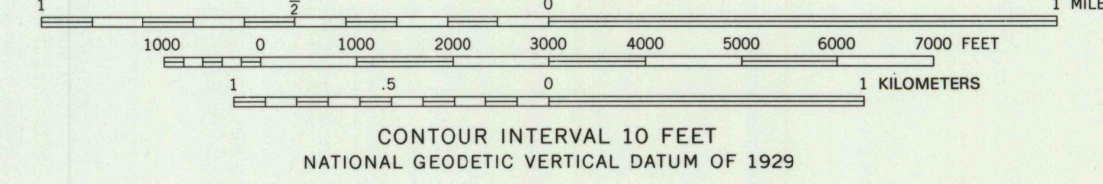
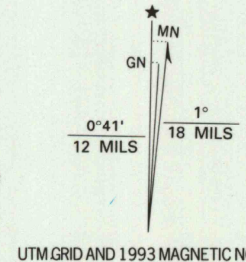
Projection and 10,000-foot grid ticks: Minnesota coordinate
system, north zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue
1927 North American Datum (NAD 27)

North American Datum of 1983 (NAD 83) is shown by dashed corner ticks
The values of the shift between NAD 27 and NAD 83 for 7.5-minute
intersections are given in USGS Bulletin 1875

Red tint indicates areas in which only landmark buildings are shown

Fine red dashed lines indicate selected fence and field lines where
generally visible on aerial photographs. This information is unchecked

Purple tint indicates extension of urban area



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

COMPLIES WITH U.S. GEOLOGICAL SURVEY STANDARDS FOR SPATIAL ACCURACY - CLASS 2
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U.S. Route
State Route

Light-duty road, hard or improved surface
Unimproved road
Interstate Route
U.S. Route
State Route

QUADRANGLE LOCATION
Revisions shown in purple compiled in cooperation
with State of Minnesota agencies from aerial
photographs taken 1991 and other sources
This information not field checked. Map edited 1993

Information shown in purple may not meet USGS content
standards and may conflict with previously mapped contours

DULUTH, MINN.
SE/4 DULUTH 15' QUADRANGLE
46092-G1-TF-024
1953

REVISED 1993
DMA 7577 I E - SERIES V872

