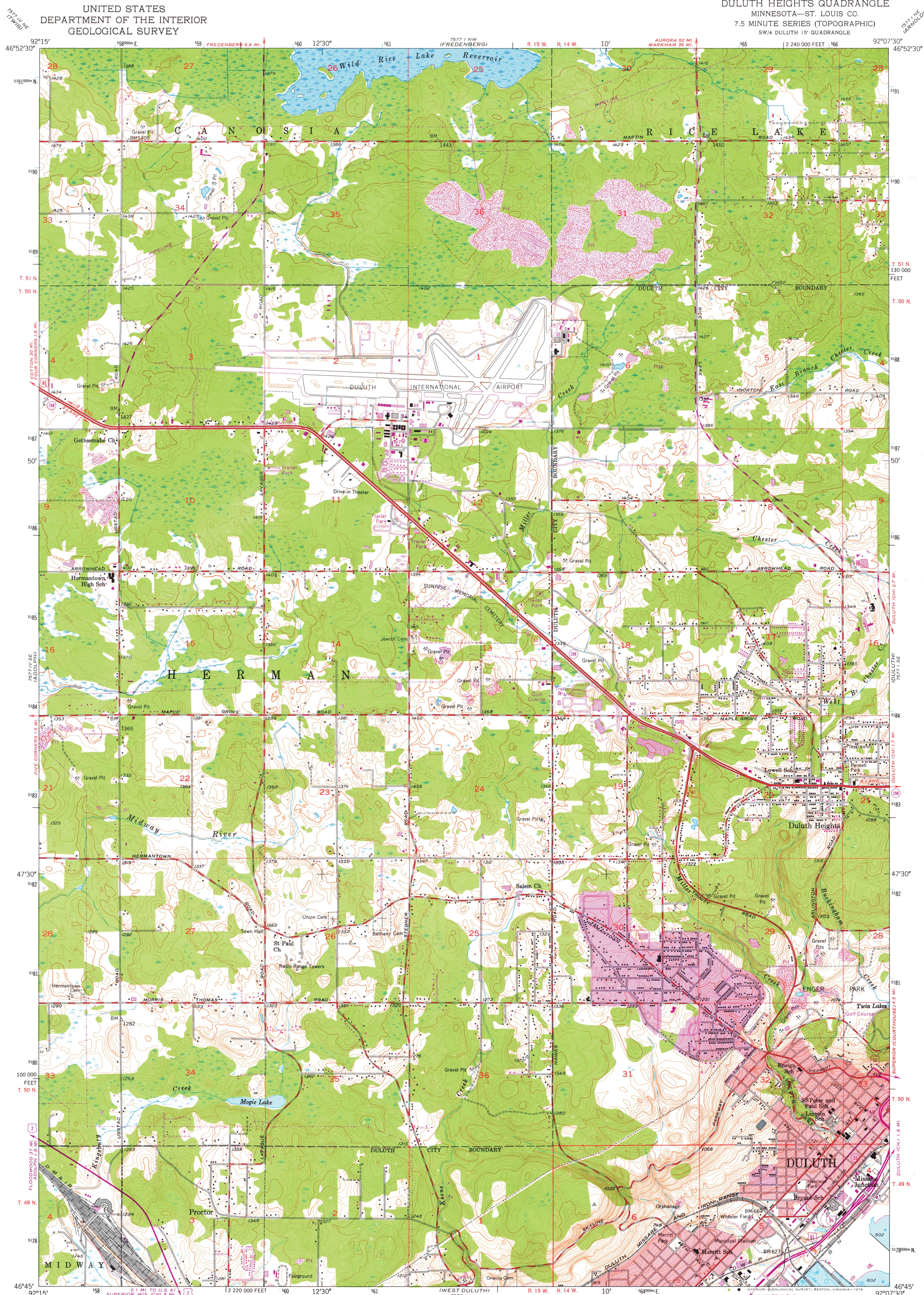




Maped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1952. Field check 1953
Hydrography from U. S. Lake Survey Chart 966 (1:15,000)
Polyconic projection. 1927 North American datum
10,000-foot grid based on Minnesota coordinate system, north zone
1000-metre Universal Transverse Mercator grid ticks
zone 15, shown in blue
Red tint indicates areas in which only
landmark buildings are shown
Revisions shown in purple compiled in cooperation
with the State of Minnesota from aerial photographs
taken 1969 and 1975. This information not field checked
Purple tint indicates extension of urban areas

UTM GRID AND 1975 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SCALE 1:24 000
1 1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 KILOMETRE

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS 601 FEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
Heavy-duty 4 LANE 6 LANE Light-duty
Medium-duty 4 LANE 6 LANE Unimproved dirt
U. S. Route State Route
Interstate Route

DULUTH HEIGHTS, MINN.
SW/4 DULUTH 15' QUADRANGLE
N4645—W9207.5/7.5

1953
PHOTOREVISED 1969 AND 1975
AMS 7577 I SW—SERIES Y872

MAP AND AIR PHOTO
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