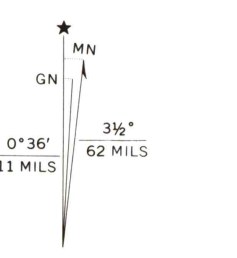
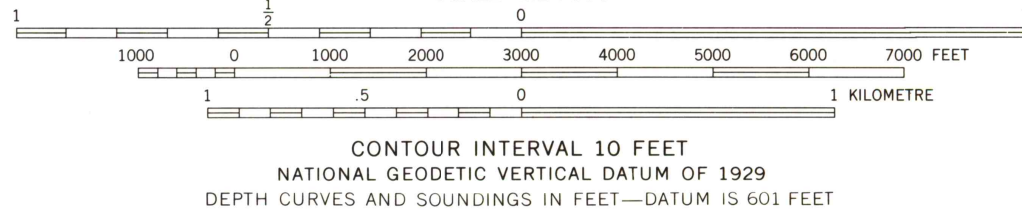


Mapped, edited, and published by the Geological Survey

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



ROAD CLASSIFICATION  
Heavy-duty 4 LANE 16 LANE Light-duty  
Medium-duty 4 LANE 16 LANE Unimproved dirt

U. S. Route Interstate Route  
State Route

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

USGS  
Historical File 1953  
Topographic Division  
PHOTOREVISED 1969 AND 1975  
AMS 7577 1 SW—SERIES V872

JAN 1 9 1977

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