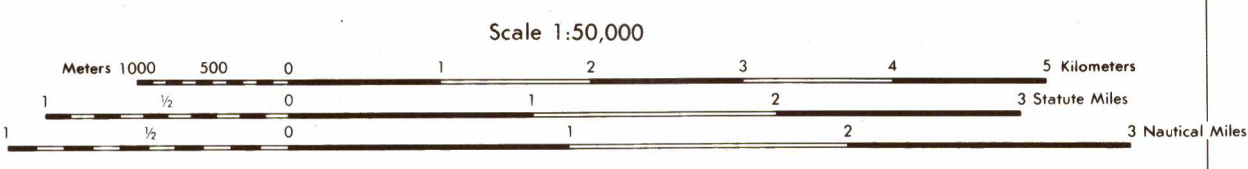


Prepared by the U. S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D. C.

LEGEND

MAP INFORMATION AS OF 1980  
 ON THIS MAP, A LANE IS GENERALLY CONSIDERED AS BEING A MINIMUM OF 2.5 METERS (8 FEET) IN WIDTH. IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>ROADS</b></p> <ul style="list-style-type: none"> <li>Divided highway with median strip</li> <li>Primary, all weather, hard surface</li> <li>Secondary, all weather, hard surface</li> <li>Light duty, all weather, hard or improved surface</li> <li>Fair or dry weather, unimproved surface</li> <li>Trail</li> <li>Route markers, Interstate, Federal, State</li> <li>Bridge: With superstructure, Without superstructure</li> <li>RAILROADS (Standard gauge 1.44m - 4'8 1/2")</li> <li>Single track</li> <li>Multiple track</li> <li>Nonoperating</li> <li>Railroad station, location known, location unknown</li> <li>Car line</li> <li>Railroad bridge: With superstructure, Without superstructure</li> <li>Tunnel, Highway, Railroad</li> </ul> <p><b>BOUNDARIES</b></p> <ul style="list-style-type: none"> <li>National, with monument</li> <li>State, territory</li> <li>County, parish</li> <li>Civil township, town</li> <li>Incorporated city, village, town</li> <li>Reservation: National, State, Military</li> </ul> | <ul style="list-style-type: none"> <li>Power transmission line</li> <li>Buildings</li> <li>Church, School</li> <li>Power substation</li> <li>Windmill, Watermill</li> <li>Well, Tank</li> <li>Mine shaft</li> <li>Open pit mine or quarry</li> <li>Horizontal control station</li> <li>Bench mark, monumented</li> <li>Bench mark, non-monumented</li> <li>Spot elevations in meters</li> <li>Leaves, rim, dikes</li> <li>Bluffs, cliffs</li> <li>Woodland</li> <li>Scattered trees, scrub</li> <li>Vineyard, Orchard, plantation</li> <li>Intermittent lake, Dam, Earthen, Masonry</li> <li>Swamp, Perennial, Intermittent</li> <li>Marsh, swamp</li> <li>Small rapids, Small falls</li> <li>Large rapids, Large falls</li> </ul> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



ELEVATIONS IN METERS

CONTOUR INTERVAL 10 METERS  
 SUPPLEMENTARY CONTOUR INTERVAL 5 METERS

SPHEROID ..... CLARKE 1866  
 GRID ..... 1000 METER UTM ZONE 12 (BLACK NUMBERED LINES)  
 PROJECTION ..... TRANSVERSE MERCATOR  
 VERTICAL DATUM ..... NATIONAL GEODETIC VERTICAL DATUM OF 1929  
 HORIZONTAL DATUM ..... 1927 NORTH AMERICAN DATUM  
 CONTROL BY ..... USGS, NOS/NOAA, AND USCE  
 PREPARED BY ..... U.S. GEOLOGICAL SURVEY

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 OR RESTON, VIRGINIA 22092

**100 METER REFERENCE**

1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenths (100 meters) from gridline to point. 1.2 3

2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point. 43.6  
 Example: 123456

WHEN REPORTING OUTSIDE THE 100,000 METER SQUARE AREA IN WHICH THE POINT LIES, PREFIX THE 100,000 METER SQUARE IDENTIFICATION.  
 Example: VM123456

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA IN WHICH THE POINT LIES, PREFIX THE GRID ZONE DESIGNATION.  
 Example: 12SVM123456

**ELEVATION GUIDE**

**ADJOINING SHEETS**

3651 II	3651 I	3751 II
3650 IV	3650 I	3750 IV
3650 III	3650 II	3750 III

**BOUNDARIES**

MARICOPA CO. PINAL CO.

GRID CONVERGENCE 731 (6 METERS) FOR CENTER OF SHEET

1980 G.M. ANGLE 127 (231 MILS)

TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH ADD G.M. ANGLE

TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH SUBTRACT G.M. ANGLE

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA CUSTOMER HELP DESK 1-800-465-4889, COMMERCIAL 1-314-269-5422, OR WRITE TO ATTN: CDD MAIL STOP P-2, NATIONAL MAGNETIC AND MAPPING AGENCY, 4800 SANDHURST ROAD, BETHESDA, MD 20814.

A portion of this map lies within a subsidence area. There may be private buildings within the boundaries of the National or State Reservations shown on this map.

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