



Prepared and published by National Imagery and Mapping Agency. MAP INFORMATION AS OF 1993

LEGEND

POPULATED PLACES
 Densely built-up areas
 Sparingly built-up areas
 Built-up areas

ROADS
 All weather, hard surface
 Divided highway
 Two or more lanes wide
 One lane wide
 All weather, loose surface
 Two or more lanes wide
 One lane wide
 Fair/dry weather
 Loose/light surface
 Track
 Trail
 Route Marker
 International, National, State

RAILROADS
 Normal gauge 1.44m (4'8 1/2")
 Single track, double track
 Station: Location accurate
 Station: Location approx.

BRIDGES
 Road, Railroad
 Footbridge

BOUNDARIES
 International
 First-order administrative division
 Second-order administrative division

MISCELLANEOUS CULTURAL FEATURES
 Area name
 Dam
 Labeled object
 Ruins, Native mts
 Building, School, Hospital
 Tunnel, Road, Railroad
 Well (other than water), Tank

OBSTRUCTIONS
 Elevation of obstruction top above sea level
 Elevation of obstruction above ground level
 High tension powerline
 Telegraph line

RELIEF
 Delineated Surface
 Cliff Escarpment
 Depression

Spot elevations
 Highest, Normal
 Level

DRAINAGE
 Channel: Perennial, Intermittent
 Less than 25m wide
 > 25m wide
 Land subject to inundation; Dry lake
 Lake: Perennial, Intermittent

WATER
 Spring: Perennial, Intermittent
 Well: Perennial, Intermittent
 Custom
 Canal, Ditch
 Perennial
 Intermittent

VEGETATION
 Coniferous, Deciduous, Mixed
 Swampland, Rice
 Scrub, Sand
 Vineyard, Orchard

MINES
 Operational, Abandoned
 Shaft
 Well
 Substation
 Church, Shop
 Pipeline: Elevated, Underground

IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED
 A LANE ON THIS MAP IS CONSIDERED TO BE 2.5 TO 5.5 METERS (8 TO 18 FEET) WIDE.
 CAUTION: NOT ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE SHOWN.

NOTES

SCALE 1:50,000

Meters 1000 500 1 2 3 4 5 Kilometers
 1 2 3 4 5 Statute Miles
 1 2 3 Nautical Miles

ELEVATIONS IN METERS
CONTOUR INTERVAL 5 METERS

CONVERSION GRAPH
 (1 meter = 3.28 feet)

Meters	Feet
1000	3281
2000	6562
3000	9843
4000	13124
5000	16405
6000	19686
7000	22967
8000	26248
9000	29529
10000	32810

COORDINATE CONVERSION WGS 84 / NAD 83 TO NAD 27
 Grid: Add 48m E, Subtract 204m N.
 Geographic: Subtract 1.7" Long, Subtract 0.3" Lat.

100 METER REFERENCE
 Road tags contribute to the vertical position of point and reference values (100 meters) from grid line to point and reference values (100 meters) from grid line to point.

GRID CONVERSION
 G-M ANGLE
 B (150 MLS)
 FOR CENTER OF SHEET

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

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

AB: HORIZONTAL DISTANCE BETWEEN INDEX CONTOURS
AC: HORIZONTAL DISTANCE BETWEEN CONTOURS

BOUNDARIES

ADJOINING SHEETS

5353 I	5353 II	5353 III
5353 IV	5353 V	5353 VI
5353 VII	5353 VIII	5353 IX

ELEVATION GUIDE

SLOPE GUIDE

PERCENTAGE	DEGREE
1%	5.7°
2%	11.3°
3%	17.0°
4%	22.6°
5%	28.3°
6%	34.0°
7%	39.6°
8%	45.3°
9%	50.9°
10%	56.6°
11%	62.2°
12%	67.9°
13%	73.5°
14%	79.2°
15%	84.8°

THIS MAP IS RED-LIGHT READABLE

WGS 84 / NAD 83

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