



Base prepared by the Army Map Service (KCBM), Corps of Engineers, U. S. Army, Washington, D. C. Compiled in 1957 by U. S. Coast & Geodetic Survey by photogrammetric methods and from United States Quadrangles 1:24,000, 1:50,000, 1:62,500, USGS and AMS, 1:94,700, 1:95,400, Metropolitan Water District, 1:120,000, California, Sheet 69, 1929. Planimetric detail revised by photo-planimetric methods. Horizontal and vertical control by USGS, USCGS and USCE. Photography field annotated 1955. Limited revision by U. S. Geological Survey 1963.

HORIZONTAL CONTROL

- National Ocean Survey
 - Geological Survey
 - Other Agencies
- INDEX TO COUNTY BOUNDARIES (See county designations list for county identification)
- 116°
 - 40'
 - WASHINGTON
- PLANE COORDINATE ZONES
- CALIFORNIA 5
 - ARIZONA WEST
 - CALIFORNIA 6

VERTICAL CONTROL

- National Ocean Survey
 - Geological Survey
 - Other Agencies
- STATE SURVEY CONTROL
- First Order
 - Second Order
 - Third Order
- CODE OF OTHER AGENCIES
- Defense Mapping Agency
 - Geodetic control established by other agencies, shown in brown, may be obtained from Office of National Geodetic Survey, NOAA, Rockville, Maryland 20852.



SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

TRANSVERSE MERCATOR PROJECTION

TOWNSHIP OR RANGE LINE

LAND GRANT BOUNDARY

LEGEND

ROAD DATA 1956

RAILROADS

BOUNDARIES

LANDMARKS

SPOT ELEVATION

POWER LINE

NATIONAL OCEAN SURVEY THIRTY MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES

34 115 4	34 115 1	34 114 4	34 114 1
CALIFORNIA			
34 115 3	34 115 2	34 114 3	34 114 2

GEOLOGICAL SURVEY FIFTEEN MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES

116°	115°	114°	113°	112°	111°
34	33	32	31	30	29

ORDER CONTROL DATA, SHOWN IN BLACK OR BROWN, BY 30 MINUTE QUADRANGLE UNITS FROM OFFICE OF NATIONAL GEODETIC SURVEY, NOAA, ROCKVILLE, MARYLAND 20852.

ORDER CONTROL DATA, SHOWN IN RED, BY 15 MINUTE QUADRANGLE UNITS FROM DIRECTOR, GEOLOGICAL SURVEY, WASHINGTON, D. C. 20242.

NEEDLES, CALIFORNIA, ARIZONA (N) 11-6 (JULY 1958) REVISED MARCH 1976

U. S. DEPT. OF COMMERCE
 COAST AND GEODETIC SURVEY
 WASHINGTON, D. C.
 FORM - 5471 (1-63)
 DATE AUGUST 1969 Revised APR 1976

INDEX TO NUMBERED HORIZONTAL CONTROL STATIONS

by the
 Coast and Geodetic Survey

Page 1
 QUADS 341141-2-3-4 & 341151-2-3-4
 ARIZ - CALIF
 LATITUDE 34°00' TO 35°00'
 LONGITUDE 114°00' TO 116°00'
 DIAGRAM NI 11-6 NEEDLES

KEY NO.	STATION NAME	QUAD. NO.	STATION NO.	KEY NO.	STATION NAME	QUAD. NO.	STATION NO.
1	T1N, R9E, NE CORNER			14	FLOX CADH		
2	NEEDLES AT & SF SHOPS, E STACK			15	DEN CADH		
2	NEEDLES AT & SF SHOPS, W STACK			16	KNOLL CADH		
2	NEEDLES, BLACK WATER TANK			17	SALT PIT		
2	NEEDLES, CATHOLIC CHURCH, CROSS			18	BLOW CADH		
2	NEEDLES, SCHOOLHOUSE TOWER			19	PILE CADH		
2	NEEDLES, SILVER WATER TANK			20	LITE CADH		
3	BAR			21	CLARK CADH		
3	BASE			22	CUTE		
3	NEEDLES LONGITUDE STATION			23	TAIL CADH		
4	NEEDLES AIRPORT			24	MIDDLE		
4	BM Z 753			24	MIDDLE RM A		
4	NEEDLES MUNICIPAL AIRPORT, BEACON			25	BRINK CADH		
5	REFUGE			26	HEN CADH		
5	BDRY PT 2 ARIZ-CALIF			27	ISLAND MWD OF SC		
6	SANTAFE			28	REY CADH		
6	BDRY PT 3 ARIZ-CALIF			29	LEE CADH		
6	CENTER			30	CRISS CADH		
6	BDRY PT 4 ARIZ-CALIF			31	CENTER		
6	ELPASO=BDRY PT 5 ARIZ-CALIF			32	GRAP CADH		
7	TOPOCK, EL PASO NATURAL GAS CO, WATER TANK			33	DANBY MWD OF SC		
7	SITE 5			34	DRAW CADH		
8	YUCCA, FORD PROVING GROUND, CONTROL TOWER			35	SANDRA CADH		
8	YUCCA, FORD PROVING GROUND, WATER TANK			36	RICE MWD OF SC		
8	YUCCA, AIRPORT WATER TANK			37	RONE CADH		
9	SPAN RM 1			38	DINO CADH		
9	SPAN			39	BAND CADH		
9	BDRY PT 11 ARIZ-CALIF			40	RIVAL CADH		
10	FLAT			41	MOLE MWD OF SC		
10	BDRY PT 9 ARIZ-CALIF			42	DENNY		
10	FILL			43	MIDWAY		
11	WATHEN=BDRY PT 8 ARIZ-CALIF			44	DALE		
12	DOCK			45	TANK		
12	BDRY PT 7 ARIZ-CALIF			46	VALE CADH		
13	PIPE MK (MWD OF SC) NEAR PEANUTS			47	VIDAL MWD OF SC		

U. S. DEPARTMENT OF COMMERCE
 ENVIRONMENTAL SCIENCE SERVICES ADMIN.
 COAST AND GEODETIC SURVEY
 ROCKVILLE, MARYLAND 20852
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 DIAGRAM NI 11-6 NEEDLES

KEY NO.	STATION NAME	QUAD NO.	STATION NO.	KEY NO.	STATION NAME	QUAD NO.	STATION NO.
48	KNOB						
49	CORAL						
49	CORAL 2						
49	PARKER INDIAN AGENCY WATER TANK						