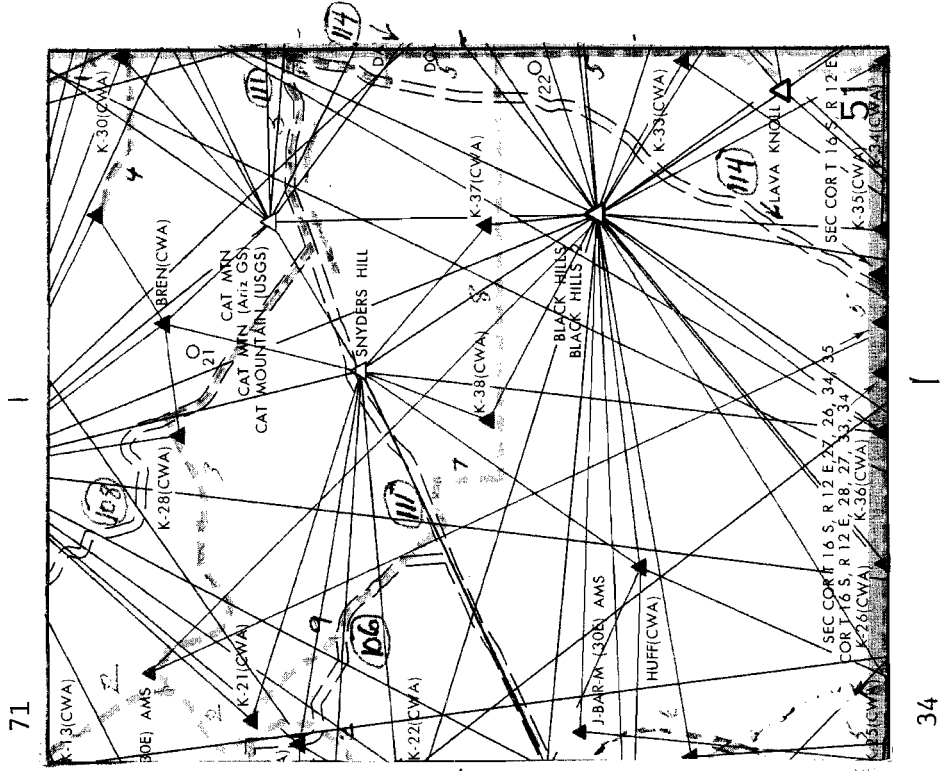


C&GS 32 111 2



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SAN XAVIER MISSION QUADRANGLE  
ARIZONA 51  
N3200-W11100/15

THIRD-ORDER LEVELING  
Sea Level Datum of 1929

Pima County

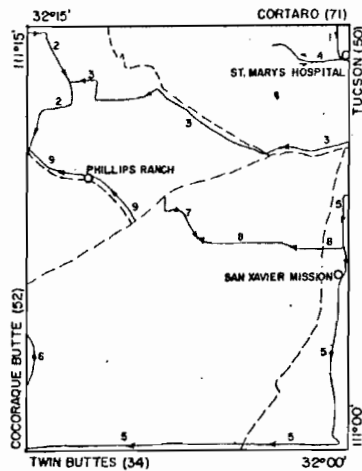
Edition of 4/24/67

Only the standard tablets  
are listed for lines run  
more than 25 years before  
the edition date.

USGS—

C&GS----

C&GS LIST 32 111 2



Index to Permanent Marks

Marks	Line No.
B 39	7
C 94 (USC&GS) (Destroyed)	9
D 39 (USC&GS) (Destroyed)	7
D 94 (USC&GS) (Destroyed)	9
E 39 1933 2423.194 (USC&GS)	9
E 94 (USC&GS)	9
K 21	2
K 24	6
K 26	5
K 27	3
K 28	3
K 29	4
K 30	1, 4
K 31	3
K 32 (Reported Destroyed)	5, 8
K 33	5
K 34	5
K 35	5
K 36	5
K 37	8
K 38	7, 8

Sta 795+00 2425.42 (USC&GS) 9

- (1) FROM CORTARO QUADRANGLE (71) SOUTHEAST ALONG ROAD INTO TUCSON QUADRANGLE (50) (Double-run line) (by A.B. Cutler, 1934; Book B 8118)

St. Marys Hospital, 300 ft. SW. of; 60 ft. W. of entrance to Desert Laboratory; on N. side of Anklam Rd.; in concrete post; standard tablet stamped "K 30 1934 2370" 2369.633

- (2) FROM COCORAQUE BUTTE QUADRANGLE (52) EAST AND SOUTHWEST ALONG ROADS BACK INTO COCORAQUE BUTTE QUADRANGLE (52) (Double-run line) (by A.B. Cutler, 1934; Book B 8119)

T. 14 S., R. 11 E., 44 ft. N. and 30 ft. W. of mesquite post at cor. secs. 20, 21, 28, and 29; on S. line of and 1 mi. W. of SE. corner of Indian Reservation; in concrete post; standard tablet stamped "K 21 1934 2300" 2299.320

- (3) FROM TUCSON QUADRANGLE (50) WEST ALONG AJO ROAD TO KINNEY ROAD THENCE NORTHWEST ALONG KINNEY ROAD AND DIM ROADS TO SEC. 9, T. 14 S., R. 11 E. (Double-run line) (by H.M. Stover, 1934 Books B 8119, B 8120)

T. 14 S., R. 12 E., about 0.6 mi. SW. of SE. corner of section 17; 4.8 mi. N. along Kinney Rd. from Ajo Rd. thence 0.5 mi. W. along side rd.; 0.8 mi. SE. of a C.C.C. Camp; in concrete post; standard tablet stamped "K 28 1934 2596" 2595.744

T. 14 S., R. 11 E., 160 ft. W. and 90 ft. N. of corner secs. 10, 11, 14, and 15; 1 mi. E. of NE. corner of the Papago Indian Reservation; 1.1 mi. N. of rd. to San Joaquin Well; in concrete post; standard tablet stamped "K 27 1934 2346" 2345.301

Tucson, 3.4 mi. SW. of,  $\frac{1}{4}$  cor. secs. 27 and 34, T. 14 S., R. 13 E., 87 ft. NW. of junction of Ajo Rd. and Mission Rd.; set in cement standard tablet stamped "K 31 1934 2428" 2427.277

"K 31 1934", 0.5 mi. W. of, at first turn of Ajo Rd. W. of mission rd., on N. side of Ajo Rd., in a 2 x 2 in. stake; 8-penny nail 2465.80

- (4) FROM ST. MARYS HOSPITAL NORTHWEST ALONG ANKLAM ROAD TO POINT 0.2 MI. EAST OF SOUTHWEST CORNER OF SECTION 6, T. 13 E., R. 14 S. (Double-run line) (by R.C. Forsnas, 1934; Book B 8118)

"K 30 1934 2370" (Described in Line 1) 2369.633

T. 14 S., R. 13 E., 0.2 mi. E. of SW. cor. sec. 6; at entrance to ranch; 10 ft. S. of ranch sign; in concrete post; standard tablet stamped "K 29 1934 2618" 2618.002

- (5) FROM TUCSON QUADRANGLE (50) SOUTHWEST ALONG EAST BORDER OF QUADRANGLE THENCE WEST ALONG SOUTH BORDER INTO COCORAQUE BUTTE QUADRANGLE (52) (Double-run line) (by A.B. Cutler, 1934 & R.L. Bruning, 1934; Book B 8118)

T. 15 S., R. 13 E.,  $\frac{1}{4}$  cor. between secs. 15 and 22; 0.2 mi. E. and 1 mi. N. of San Xavier Mission; 90 ft. N. of N. line of San Xavier Indian Reservation; on N. side of lane; in concrete post; standard tablet stamped "K 32 1934 2489" (Reported destroyed, 1956) 2488.442

T. 16 S., R. 13 E.; 30 ft. W. of  $\frac{1}{4}$  cor. between secs. 3 and 10; 3 mi. S. and 0.5 mi. E. of San Xavier Mission; in concrete post; standard tablet stamped "K 33 1934 2633" 2632.188

T. 16 S., R. 13 E., 3 ft. E. of  $\frac{1}{4}$  cor. between secs. 27 and 34; 4.8 mi. E. of Twin Buttes Rd.; on S. fenceline of San Xavier Indian Reservation; in concrete post; standard tablet stamped "K 34 1934 2839" 2838.098

T. 16 S., R. 12 and 13 E.; 12 ft. E. of cor. secs. 25, 30, 31 and 36; 1.3 mi. E. of Twin Buttes Rd.; on the S. boundary of San Xavier Indian Reservation; in concrete post; standard tablet stamped "K 35 1934 3188" 3187.265

T. 16 S., R. 12 E., 1,020 ft. W. of cor. secs. 28, 29, 32 and 33; 2.7 mi. W. of Twin Buttes Rd.; on first hill W. of sec. cor.; 96 ft. N. of fence at S. boundary of San Xavier Indian Reservation; in concrete post; standard tablet stamped "K 36 1934 3566" 3565.514

T. 16 S., R. 11 E.; 4 ft. S. of cor. secs. 25, 26, 35 and 36; 2 mi. E. of the SW. cor. of San Xavier Indian Reservation; in concrete post; standard tablet stamped "K 26 1934 3612" 3611.187

- (6) FROM COCORAQUE BUTTE QUADRANGLE (52) NORTHEAST AND NORTHWEST BACK INTO COCORAQUE BUTTE QUADRANGLE (52) (by R.L. Bruning, 1934; Book B 8118)

T. 16 S., R. 11 E., 30 ft. N. and 30 ft. E. of SW. cor. sec. 5; 2 mi. W. of W. boundary of San Xavier Indian Reservation; in concrete post; standard tablet stamped "K 24 1934 2752" 2751.301

- (7) FROM POINT ON STATE HIGHWAY 86 13 MILES SOUTHWEST OF TUCSON SOUTHEAST TO SOUTHEAST CORNER OF SEC. 17, T. 15 S., R. 12 E. (Double-run line) (by A.B. Cutler, 1934 & R.L. Bruning, 1934; Book B 8119)

"B 39 RESET 1935" 2468.102

"D 39 RESET 1935" (USC&GS) (Destroyed, 1957) 2423.115

T. 15 S., R. 12 E., 60 ft. W. of cor. secs. 16, 17, 20 and 21; 1 mi. N. of N. boundary of San Xavier Indian Reservation; in concrete post; standard tablet stamped "K 38 1934 2522" 2521.751

- (8) FROM POINT NEAR  $\frac{1}{4}$  CORNER BETWEEN SECTIONS 15 AND 22 T. 15 S., R. 13 E., LAST TO SOUTHEAST CORNER OF SECTION 17, T. 15 S., R. 12 E. (Double-run line) (by R.C. Forsnas, 1934; Books B 8118, B 8120)

T. 15 S., R. 13 E.,  $\frac{1}{4}$  cor. between secs. 15 and 22; standard tablet stamped "K 32 1934 2489" (Described in Line 5) 2488.442

T. 15 S., R. 13 E., 24 ft. S. of W. cor. secs. 18 and 19; 1 mi. N. of N. line of San Xavier Indian Reservation; in concrete post; standard tablet stamped "K 37 1934 2558" 2557.275

T. 15 S., R. 12 E., 60 ft. W. of cor. secs. 16, 17, 20 and 21; standard tablet stamped "K 38 1934 2522" (Described in Line 7) 2521.751

(9) FROM POINT 12.5 MILES SOUTHWEST OF TUCSON ON AJO-TUCSON HIGHWAY NORTHWEST ALONG ROADS INTO THE COCORAQUE BUTTE QUADRANGLE (52) (by E.E. Harris, 1937; Book B 7252)

"E 39 1933 2423.194" (USC&GS) (Reset, 1951) 2422.797

Reference mark, 120 ft. E. of tablet; on N. edge of State Highway 86; in center of headwall of concrete culvert; Arizona State Highway Department, bronze tablet stamped "193.52 2427.00" 2426.084

Tucson, about 13.9 mi. W. of city hall along State Highway 86; 0.2 mi. E. of junction of rd. to Phillips Ranch; on N. edge of highway; in center of headwall of concrete culvert; ASHD bronze tablet stamped "STA 795+00 2425.42" (Recovered by USC&GS, 1954) 2424.614

Tucson, 14.1 mi. W. of city hall along State Highway 86; 3.1 mi. SE. of Phillips Ranch; on N. edge of highway; 50 ft. E. of intersection of rd. NW. to Phillips Ranch; on 24 in. galvanized drain pipe; chiseled square 2423.71

Tucson, 14.8 mi. W. of city hall along State Highway 86; 2.4 mi. SE. of Phillips Ranch; on N. edge of curve in highway; on 30-in. galvanized drain pipe; chiseled square 2422.40

Phillips Ranch, 2 mi. SE. of; on W. edge of rd.; 700 ft. N. of abandoned ranch house; in base on E. side of small mesquite tree; rail spike 2382.36

"E 94 1935" (USC&GS) 2349.037

Reference mark, 445 ft. S. of tablet; on W. side of rd. at top of grade; in root on E. side of prominent mesquite tree; copper nail and washer 2356.98

Phillips Ranch, 0.3 mi. E. of; at cor. secs. 34, 35, 2, 3, T. 14 and 15 S., R. 11 E.; on highest point of boulder; chiseled square 2328.51

"D 94 1935" (USC&GS) (Destroyed, 1957) 2323.181

Reference mark, 48 ft. E. of tablet; in root on N. side of small mesquite tree; copper nail and washer 2322.95

Phillips Ranch, 1.6 mi. W. of; in SE. corner of intersection of rd. S.; in crotch of mesquite tree; copper nail and washer 2322.08

"C 94 1935" (USC&GS) 2320.501

Reference mark, 1,200 ft. E. of tablet; in crotch of mesquite tree; copper nail and washer 2320.27

SAN XAVIER MISSION (51)

Arizona

32 111 22

D.O. Richardson, 1975

Third Order      Adjusted Elevations Based on National  
Geodetic Vertical Datum of 1929

Book: PV 938 Holding 1962 Suppl. Adj. at BM B315 and BM R19  
Latitude 32°00' Longitude 111°00'

- (10) FROM THE WEST SIDE OF TUCSON QUADRANGLE (50) WEST TO A POINT 0.7 MILE  
WEST OF THE JUNCTION OF KINNEY ROAD AND STATE HIGHWAY 86 (By D.O.  
Richardson, 1975; Book: PV 938)

At Tucson; in east end of concrete island in center of Ajo Way at  
west side of Mission Rd.; standard tablet stamped "62 DOR 1975"      2424.835

At Tucson; 0.95 mi W. along Ajo Way from jct. with Mission Rd.;  
27 ft N. of Ajo Way; in center of north concrete headwall of a 30-  
inch corrugated metal pipe culvert; an AHD tablet stamped "2501.57  
1966"      2501.706

At Tucson; 1.83 mi W. along Ajo Way from jct. with Mission Rd.; 50  
ft N. of and 8 ft lower than Ajo Way; in center of north concrete  
headwall of a 15-ft box culvert; an AHD tablet stamped "2568.42  
1965"      2568.491

At Tucson; 2.9 mi W. along Ajo Way from jct. with Mission Rd.; 135  
ft S. of Ajo Way, 17 ft W. of a T-fence S., 9 ft S. of power pole  
8, 1 ft N. of fence; set on a copper-coated rod enclosed by a black  
plastic pipe; standard tablet stamped "63 DOR 1975"      2646.721

BM "R 112 1935 RESET 1951" (NGS Quad 32 111 2, line 111) [1975  
USGS ELEVATION]      2583.805

BM "G 39 1933 2554.726" (NGS Quad 32 111 2, line 111) [1975 USGS  
ELEVATION]      2554.590

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5/27/75 dld