

MESA

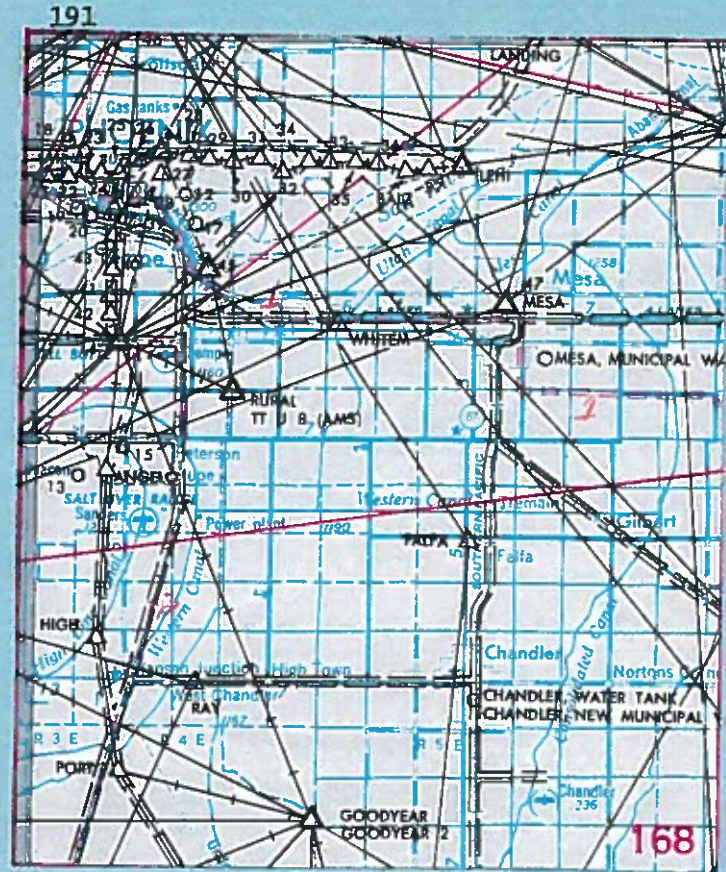
Lat. 33°15'
Long. 111°45'

ARIZONA 168

C&GS 33 111 3

See Ariz. Hwy. - Job 269

- (1) T. Winsor 1899 8498
- (2) " " "



145

A.H.D. line
 Payson to Phoenix along State Highway 87
 Filed in "Outside Control"

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

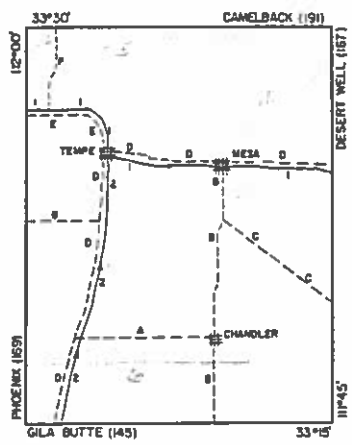
THIRD-ORDER LEVELING
Sea Level Datum of 1929

MESA QUADRANGLE
ARIZONA 168
N3315-W11145/15

FILE COPY

Maricopa County
Edition of 3/26/57

Only the standard
tablets are listed
for lines run more
than 25 years be-
fore the above
edition date



USC&GS Leveling Lines

- A. Sacaton Area, Arizona (No. 19) Second order
- B. Mesa to Poston, Arizona (No. 30) Second order
- C. Mesa to Walnut Wells, Arizona (No. 31) First and Second order
- D. Roosevelt to Maricopa, Arizona (No. 46) First and Second order
- E. Tempe to Wenden, Arizona (No. 56) Second order
- F. 5 Miles N. of Kendall to Kendall, Arizona (No. 68) Second order
- G. Komatke Area, Arizona (No. 69) Second order

Feet

LINE 1.

FROM PHOENIX QUADRANGLE (169) EAST ALONG ARIZONA EASTERN RAILROAD VIA TEMPE TO MESA THENCE EAST ALONG FLORENCE ROAD INTO DESERT WELL QUADRANGLE (167) (by T. Winsor, 1899; Book 8498)

- T 1 N., R. 3 E., near E. quarter cor. of sec. 12; 15 ft. S. of Arizona Eastern RR. track; standard iron post with bronze cap stamped "1132 PHNX" (~~Not found~~) 1131.564
- Tempe, N. end of station; 50 ft. E. of main track; standard iron post with bronze cap stamped "1158 PHNX" (Destroyed) 1157.683
- Tempe, 2.5 mi. SE. of; on S. side of rd.; opposite rd. leading N.; standard iron post with bronze cap stamped "1177 PHNX" (Destroyed) 1176.675
- Mesa, 1.5 mi. NW. of along U. S. Highway 80; 0.5 mi. N. of a paved hwy.; at NE. corner of a rd. jct.; 30 ft. N. of center of Southern Pacific Railroad; standard iron post with bronze cap stamped "1235 PHNX" (Recovered by USC&GS, 1933) 1234.728
- Mesa, 250 ft. SW. of station; near corner of wire fence on E. side of public rd.; standard iron post with bronze cap stamped "1244 PHNX" 1243.720
- Mesa, 3.0 mi. SE. of along U. S. Highway 80; 0.5 mi. S. of a canal crossing; at SE. corner of rd. jct.; standard iron post with bronze cap stamped "1243 PHNX" (Recovered by USC&GS, 1933) 1242.839

LINE 2.

FROM GILA BUTTE QUADRANGLE (145) NORTHEAST ALONG SOUTHERN PACIFIC RAILROAD TO TEMPE (by T. Winsor, 1899; Book 8498) P. 13

- Kyrene, 1 mi. S. of; 25 ft. E. of track on E. side of public rd.; standard iron post with bronze cap stamped "1157 PHNX" 1156.566
- Tempe, 7.2 mi. S. of along Southern Pacific Railroad; 1.8 mi. N. of Hansen Junction; 1.5 mi. N. of Kyrene; on top of bank; 180 ft. S. of a culvert; 20 ft. E. of center of tracks; standard iron post with bronze cap stamped "1198 PHNX" (Recovered by USC&GS, 1948) 1197.379
- Tempe, 3.8 mi. S. of; 35 ft. E. of track; near fence; in corner of field having small reservoir; standard iron post with bronze cap stamped "1188 PHNX" 1187.266

FILE COPY

LINE #1
NOTE: This line was run by Third Order methods but closure was 0.152 ft. HIGH in a distance of 7.86 miles. This closure error has been prorated in the line.

ARIZONA TEST SITE
 (A Portion Of Army Map Service Test Area)
 U. S. GEOLOGICAL SURVEY
 TOPOGRAPHIC DIVISION

The Army Map Service Arizona Test Area was established beginning in 1948, with a resurvey of the horizontal control in the area being conducted during 1960-62 using triangulation and geodimeter traverse. The USC&GS and AMS ran second- and third-order leveling throughout the area for vertical control.

In 1965 U. S. Geological Survey field parties, with the permission and cooperation of the Army Map Service, did extensive horizontal and vertical control surveys in a portion of the area to increase the density of control points for use in various photogrammetric research projects. Horizontal control was extended from AMS control by triangulation and electronic traverse, using second-order procedures. Fly leveling was run in a 3- by 5-mile high-density area, as shown on the leveling diagram. Elevations were established on approximately 140 supplemental vertical points, holding closely to third-order methods, with all line closures being within 0.1 ft. Each horizontal control point has an elevation established by either the USC&GS, AMS, OR USGS.

PANELS

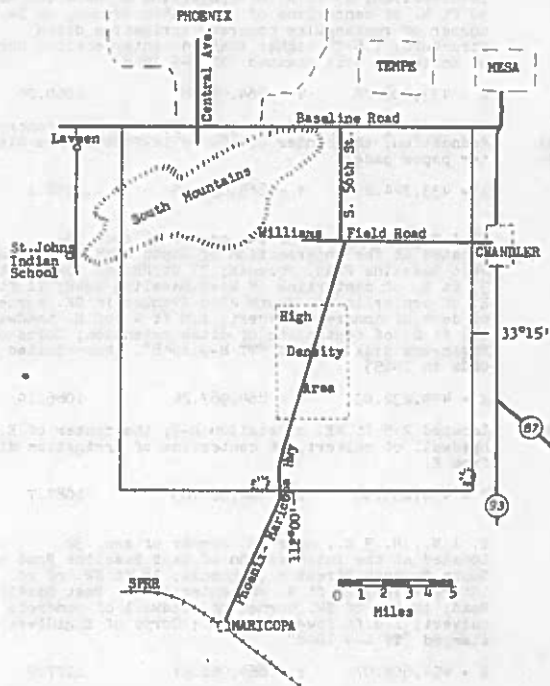
Army Map Service permanent cross-target panels have the following dimensions: Each of the four wings measures 8- by 20-foot; the junction of the four wings forms an 8- by 8-foot square center.

Temporary panels used by the U. S. Geological Survey were laid in square formats in 6- by 6-foot, 9- by 9-foot, and 12- by 12-foot sizes. For most of these white Visqueen polyethylene material was used; however, a few were made using black roofing paper.

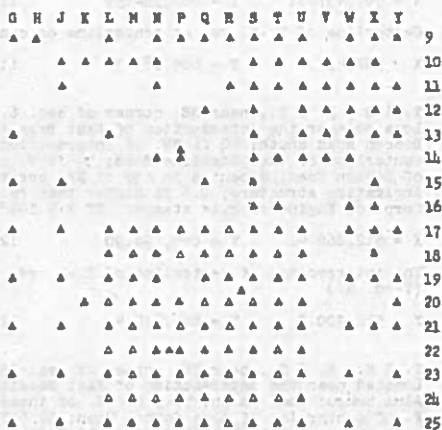
DATA

Horizontal positions are based on 1927 North American Datum and coordinates are published on transverse Mercator projection, Arizona Zone.

Elevations are based on the datum established by the 1929 General Adjustment.

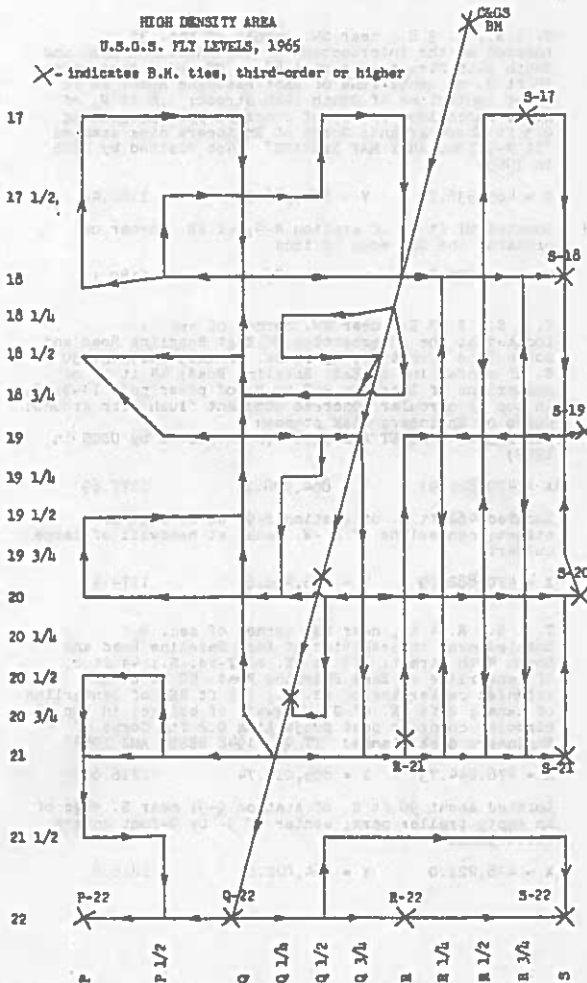


HORIZONTAL CONTROL DIAGRAM
ARIZONA TEST SITE



LEGEND

- ▲ Horizontal positions by AMS.
- △ Horizontal positions by USGS in 1965.



TIER 9

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
G-9	T. 1 N., R. 2 E., near SE. corner of sec. 34. Located at the intersection of South 35th Avenue and West Baseline Road, Phoenix; 38 ft NW. of intersection; 23 ft N. of centerline of Baseline Road; 30 ft W. of centerline of South 35th Avenue; on SW. corner of rectangular concrete irrigation ditch structure; 1.5 ft higher than rd. intersection; Corps of Engineers disk stamped "TT G-9 1948"		R-9 (C&GS BM B-273)	T. 1 N., R. 4 E., near SW. corner of sec. 32. Located at the intersection of East Baseline Road and South 48th Street; 49 ft NE. of intersection; 33 ft E. of centerline of South 48th Street; 34 ft N. of centerline of East Baseline Road; 5 ft ESE. of fence corner; 1.8 ft S. of E.-W. fence line; in top of concrete post, 0.6 ft below surface of ground; USC&GS standard disk stamped "B 273 1948" (Not visited by USGS in 1965)	
	X = 433,908.78 Y = 864,974.81	1060.25		X = 481,408.12 Y = 865,117.82	1209.94
G-9 Panel USGS	Located 177 ft NW. of station G-9; on an old concrete foundation; the center of 12- by 12-foot square black tar paper panel.		PP R-9 AMS	Located about 47 ft NE. of station R-9; S. edge of southwesternmost tree in orchard.	
	X = 433,744.29 Y = 865,039.55	1058.1		X = 481,435.87 Y = 865,115.40	1208.8
H-9	T. 1 N., R. 2 E., near SW. corner of sec. 36. Located at the intersection of South 27th Avenue and West Baseline Road, Phoenix; 33 ft NE. of intersection; 31 ft N. of centerline of West Baseline Road; 11 ft E. of centerline of South 27th Avenue; in SE. corner of deck of concrete culvert; 1.6 ft W. of E. headwall; 1.4 ft S. of centerline of ditch extension; Corps of Engineers disk stamped "TT H-9 1948" (Not visited by USGS in 1965)		S-9 (C&GS BM C-273)	T. 1 N., R. 4 E., near SW. corner of sec. 33. Located near the intersection of East Baseline Road and Priest Road (South 56th Street); 43 ft NE. of junction of T-rd. N.; 27 ft E. of centerline of N.-S. rd.; 32 ft N. of centerline of East Baseline Road; in NW. corner of irrigation box valve concrete structure; USC&GS standard disk stamped "C 273 1948" (Not visited by USGS in 1965)	
	X = 439,232.03 Y = 864,987.24	1086.19		X = 486,661.67 Y = 865,135.60	1205.32
PP H-9 AMS	Located 2.5 ft NE. of station H-9; the center of E. headwall of culvert, at centerline of irrigation ditch from E.		PP S-9A AMS	Located about 51 ft W. of station S-9; centerline of E.-W. irrigation ditch at W. edge of headwall.	
	X = 439,233.98 Y = 864,988.85	1087.7		X = 486,611.13 Y = 865,132.09	1206.1
L-9	T. 1 N., R. 3 E., near SE. corner of sec. 32. Located at the intersection of East Baseline Road and South Seventh Street S., Phoenix; 38 ft NW. of rd. intersection; 18 ft N. of centerline of East Baseline Road; in top of SW. corner of headwall of concrete culvert; 1.0 ft lower than rd.; Corps of Engineers disk stamped "TT L-9 1948"		T-9	T. 1 N., R. 4 E., near SW. corner of sec. 34. Located near the intersection of East Baseline Road and Kyrene Road; 41 ft NE. of RR. grade crossing; 35 ft N. of centerline of East Baseline Road; 22 ft E. of centerline of mainline RR. tracks; 3.3 ft NW. of telephone pole No. 4; in top of circular concrete post projecting 0.4 ft; Corps of Engineers disk stamped "TT T-9 1948 RESET AMS 1955" (Not visited by USGS in 1965)	
	X = 454,609.07 Y = 864,966.41	1177.2		X = 492,055.80 Y = 865,128.54	1179.70
PP L-9 AMS	The SW. corner of a small square concrete irrigation structure. The picture point has the same position and elevation as the station mark.		PP T-9 AMS	Located about 41 ft SW. of station T-9; intersections of centerline of E.-W. rd. and N.-S. railroad.	
	X = 465,536.77 Y = 864,986.24	1181.40		X = 492,034.08 Y = 865,093.68	1180.7
N-9	T. 1 N., R. 3 E., near SW. corner of sec. 35. Located at the intersection of East Baseline Road and South 24th Street, Phoenix; 46 ft NE. of intersection; 35 ft N. of centerline of East Baseline Road; 26 ft E. of centerline of South 24th Street; 1.8 ft W. of N.-S. fence line; in top of concrete post projecting 0.3 ft above ground; Corps of Engineers disk stamped "TL N-9 1960 ARMY MAP SERVICE" (Not visited by USGS in 1965)		U-9	T. 1 N., R. 4 E., near SE. corner of sec. 34. Located near the intersection of East Baseline Road and Canal Drive (Not found, in 1965, insufficient description)	
	X = 465,536.77 Y = 864,986.24	1181.40		X = 496,605.02 Y = 865,133.09	1179.6
PP N-9B AMS	Located 61 ft W. of station N-9; at SE. corner of orchard; the SE. edge of tree		PP U-9 AMS	Located about 348 ft S. of station U-9; on W. side of Canal Drive; NE. corner of cattle pen.	
	X = 465,475.89 Y = 864,989.74	1180.1		X = 496,516.03 Y = 864,796.65	1180.3
P-9	T. 1 S., R. 3 E., near NW. corner of sec. 1. Located at the intersection of East Baseline Road and South 32nd Street N.; 45 ft SW. of intersection; 30 ft S. of centerline of East Baseline Road; 44 ft W. of centerline of lane S.; 2.9 ft W. of power pole 14-B-42; in top of circular concrete monument flush with ground; Corps of Engineers disk stamped "TT P-9 1948 RESET AMS 1955" (Not visited by USGS in 1965)		W-9	T. 1 S., R. 5 E., about 300 ft E. of NW. corner of sec. 6. Located near the intersection of East Baseline Road and Price Road; 31 ft S. of centerline of East Baseline Road; 19 ft E. of centerline of canal; 2.5 ft E. of E. end of S. abutment of concrete bridge; in top of concrete post projecting 0.2 ft; Corps of Engineers disk stamped "TT W-9 1948 RESET AMS 1955"	
	X = 470,822.91 Y = 864,998.13	1177.69		X = 507,437.11 Y = 865,154.59	1196.56
PP P-9 AMS	Located 462 ft N. of station P-9; at E. edge of street; centerline of E.-W. canal at headwall of large culvert.		PP W-9 USGS	Centerline of E.-W. rd. at centerline of canal.	
	X = 470,802.09 Y = 865,456.61	1174.4		X = 507,417.8 Y = 865,185.3	1196.3
Q-9	T. 1 S., R. 4 E., near NW. corner of sec. 6. Located near intersection of East Baseline Road and South 40th Street; 117 ft SE. of T-rd. N.; 44 ft S. of centerline of East Baseline Road; 50 ft W. of extended centerline of rd. S.; 6.2 ft SE. of centerline of canal; 2 ft SE. of S. wingwall of bridge; in top of circular concrete post projecting 0.2 ft; Corps of Engineers disk stamped "TT Q-9 1948 RESET AMS 1955"		X-9	T. 1 S., R. 5 E., near NE. corner of sec. 6. Located near the intersection of East Baseline Road and Dobson Road South; 42 ft SW. of intersection; 25 ft S. of centerline of East Baseline Road; 34 ft W. of centerline of Dobson Road; cemented in top of NE. corner of concrete irrigation structure; 0.6 ft higher than rd. intersection; Corps of Engineers disk stamped "TT X-9 1948"	
	X = 476,244.73 Y = 865,014.74	1216.60		X = 512,266.91 Y = 865,194.90	1200.0
Q-9 Panel USGS	Located about 96 ft S. of station Q-9; near S. edge of an empty trailer park; center of 9- by 9-foot square white panel		PP X-9 USGS	The intersection of centerline of E.-W. rd. and rd. S. (T-rd. S.)	
	X = 476,221.0 Y = 864,022.0	1216.8		X = 512,300.3 Y = 865,219.4	1199.6
			Y-9	T. 1 N., R. 5 E., near SW. corner of sec. 33. Located near the intersection of East Baseline Road and Alma School Road North; 51.5 ft NE. of intersection; 33 ft E. of centerline of Alma School Road; 39.6 ft N. of centerline of East Baseline Road; 11.7 ft N. of centerline of headwall of culvert; in top of round concrete post flush with ground; Corps of Engineers disk stamped "TT Y-9 1948 RESET AMS 1955"	
				X = 518,335.42 Y = 865,325.16	1205.5
			Y-9 Panel USGS	Centered over station Y-9; a 12- by 12-foot square white panel. Same position and elevation as station Y-9.	
			PP Y-9 USGS	T-rd. N.	
				X = 518,302.8 Y = 865,286.6	1205.4

TIER 10

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
J-10	T. 1 S., R. 2 E.; near SE. corner of sec. 1; station mark is 57 ft N. of centerline of West Dobbins Road; 28 ft W. of centerline of South 19th Avenue; 1.9 ft S. of short E.-W. portion of fence line; 4.6 ft NE. of NE. corner of rectangular-shaped concrete box; 4.5 ft SW. of fence corner post; 9.7 ft SE. of fence corner post; in top of concrete post projecting 0.1 ft above ground; Corps of Engineers disk stamped "TT J-10 1948 RESET AMS 1955" (Not visited by USGS in 1965)		T-10	T. 1 S., R. 4 E., near SW. corner of sec. 3. Located at the intersection of Kyrena Road and Guadalupe Road; 50 ft E. of centerline of Kyrena Road; 18 ft N. of centerline of Guadalupe Road; 4 ft S. of centerline of E.-W. irrigation ditch; in top of SE. corner of concrete irrigation headwall; Corps of Engineers disk stamped "TT T-10 1960 ARMY MAP SERVICE" (Not visited by USGS in 1965)	
	X = 444,054.63 Y = 859,743.80	1150.83		X = 491,337.32 Y = 859,815.44	1196.4
PP J-10B AMS	Located 92.5 ft SE. of station J-10; E. edge of N.-S. rd. at centerline of small E.-W. canal.		PP T-10 AMS	66 ft W. of station mark; on W. side of Kyrena Road; centerline of E.-W. ditch at headwall of culvert.	
	X = 444,090.94 Y = 859,658.64	1152.9		X = 491,271.42 Y = 859,819.20	1197.2
K-10	At the intersection of West Dobbins Road and South Seventh Avenue (Reported destroyed) (Not visited by USGS in 1965)		U-10	T. 1 S., R. 4 E., near NW. corner of sec. 11. Located at the intersection (offset) of Guadalupe Road and Canal Drive; 83 ft SE. of junction of T-rd. E.; 79 ft E. of centerline of Canal Drive; 21 ft S. of centerline of Guadalupe Road; in top of concrete post, the top of which is flush with ground; Corps of Engineers disk stamped "TT U-10 1948 RESET AMS 1955"	
PP K-10 AMS	Located 269 ft SE. of K-10; NW. corner of wooden fence.			X = 496,663.66 Y = 859,851.53	1183.1
	X = 449,536.89 Y = 859,480.75	1225.5	U-10 Panel USGS	About 69 ft NE. of station; center of 12- by 12-foot square white Visqueen panel.	
L-10	T. 1 S., R. 3 E.; near NE. corner of sec. 8; station mark is located 52 ft SW. of intersection of East Dobbins Road and South Seventh Street; 39 ft S. of centerline of East Dobbins Road; 37 ft W. of centerline of South Seventh Street; in top of round concrete post projecting 0.2 ft above ground and 0.9 ft higher than rd. intersection; Corps of Engineers disk stamped "TT L-10 1948"			X = 496,632.86 Y = 859,912.98	1182.2
	X = 454,585.32 Y = 859,676.59	1274.97	PP U-10 USGS	Junction of T-rd. E.	
L-10 Panel USGS	A 12- by 12-foot square white Visqueen panel centered over station mark. Same horizontal position as station L-10	1274.8		X = 496,587.0 Y = 859,872.7	1183.3
M-10	T. 1 S., R. 3 E.; near NW. corner of sec. 10; station mark is located at intersection of South 16th Street and East Dobbins Road; 38 ft S. of centerline of East Dobbins Road; 2 ft E. of extended centerline of South 16th Street; 6.7 ft SE. of street sign post; 83 ft SW. of telephone pole No. 24; in top of round concrete post; Corps of Engineers disk stamped "TT M-10 1948 RESET AMS 1955" (Not visited by USGS in 1965)		V-10	T. 1 S., R. 4 E., near SW. corner of sec. 1. Located at the intersection of Guadalupe Road and McClintock Road; 43 ft NE. of intersection; 15 ft E. of centerline of N.-S. rd.; 3 ft N. of centerline of ditch to W.; in top of N. end of concrete headwall; Corps of Engineers disk stamped "TT V-10 1948"	
	X = 459,878.23 Y = 859,633.09	1262.60		X = 501,866.92 Y = 859,857.57	1188.0
PP M-10 USGS	Located 866 ft ENE. of station mark; SW. corner of house.		PP V-10 USGS	Centerline of crossroads	
	X = 460,735.40 Y = 859,756.73	1288.0		X = 501,853.8 Y = 859,814.5	1187.5
N-10	T. 1 S., R. 3 E., near SE. corner of sec. 3; To reach from intersection of East Baseline Road and South 24th Street, Phoenix, go S. on South 24th Street for 0.65 mi to rd. fork, take right fork for 0.1 mi, cross deep wash and continue westerly for 0.15 mi to trail going S., turn left, bypassing rocks blocking trail, and go S. and SE. for 0.1 mi to rd. fork, take right fork and go S. for 0.05 mi to trail junction, continue S. around a butte for 0.1 mi to end of truck travel. Station is 51 ft SW. from end of trail up on a large flat boulder. Station mark is a copper nail cemented into a drilled hole. (Not visited by USGS in 1965)		W-10	T. 1 S., R. 5 E., near NW. corner of sec. 7. Located near the intersection of Guadalupe Road and Price Road; 140 ft ESE. of centerline of bridge over canal; 39 ft S. of centerline of Guadalupe Road; 61.5 ft SSW. of power pole; 2.3 ft NW. of fence corner; in top of concrete post 0.2 ft below surface of ground; Corps of Engineers disk stamped "TT W-10 1948 RESET 1955" (Reported not found, 1965 because of road construction)	
	X = 464,584.83 Y = 859,726.85	1343.49		X = 507,240.07 Y = 859,844.80	1192.12
N-10 Panel AMS	Panel is circular, donut shaped target made of white painted rocks. Outside diameter, 14 ft; inside diameter, 6 ft. Panel is centered over station mark. Position and elevation are the same as station mark.		PP W-10B AMS	Located 141 ft WNW. of station; centerline of E.-W. rd. at centerline of N.-S. canal.	
				X = 507,101.74 Y = 859,870.84	1195.5
S-10	T. 1 S., R. 4 E., near SW. corner of sec. 4. Located at the intersection of Guadalupe Road and Highline Drive; 50 ft NE. of intersection; 37 ft N. of centerline of Guadalupe Road and 36 ft E. of centerline of Highline Drive; 13.4 ft E. of telephone pole; 3.4 ft NE. of G.L.O. section corner pipe; in top of concrete post projecting 0.3 ft above ground and 0.7 ft lower than rd. intersection; Corps of Engineers disk stamped "TT S-10 1948" (Not visited by USGS in 1965)		X-10	T. 1 S., R. 5 E., near SE. corner of sec. 6. Located near the intersection of Guadalupe Road and Dobson Road; 35 ft NW. of intersection; 28 ft N. of Guadalupe Road; 20 ft W. of Dobson Road; cemented in deck of concrete culvert level with rd. intersection; Corps of Engineers disk stamped "TT X-10 1948"	
	X = 486,055.78 Y = 859,853.90	1248.40		X = 512,425.14 Y = 859,976.57	1198.0
PP S-10A AMS	Located 149 ft SSE. of station mark; at point of "v" formed by trail fork, center of small bush.		PP X-10 USGS	Centerline of crossroads	
	X = 486,077.68 Y = 859,706.14	1248.2		X = 512,445.9 Y = 859,949.7	1198.2
PP S-10 AMS 1948	Centerline of crossroads				
	X = 486,018.9 Y = 859,817.1	1249.1			

TIER 11

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
J-11	T. 1 S., R. 3 E., near NW. corner of sec. 18. To reach from intersection of West Baseline Road and South 19th Avenue, go S. for about 1.8 mi to point where South 19th Avenue changes to trail, thence drive southerly on trail for 0.2 mi to end of truck travel, then walk up hill to SW. for about 150 ft to station site. Station mark is 30.5 ft NW. of bank of drain, and 25 ft SE. of drop off; in top of concrete post projecting 0.4 ft above ground; Corps of Engineers disk stamped "TT J-11 1948 RESET AMS 1952" (Not visited by USGS in 1965)		U-11	T. 1 S., R. 4 E., near NW. corner of sec. 14. Station is located near the intersection of Gilbert Road and Canal Drive; 38 ft SE. of intersection; 55 ft S. of centerline of Gilbert Road; 82 ft E. of centerline of Canal Drive; 1.5 ft W. of N.-S. fence; in top of concrete post; Corps of Engineers disk stamped "U-11 AMS 1963"	
	X = 444,184.65 Y = 854,333.45	1413.15		X = 496,684.81 Y = 854,484.69	1161.0
J-11 Panel AMS	A cross-shaped, rock panel, painted white. The geometric center of the panel. Same horizontal position as station mark. 1412.8		PP U-11 USGS	Centerline of crossroads X = 496,604.3 Y = 854,540.6	1180.7
N-11	T. 1 S., R. 3 E., near SW. corner of sec. 11. To reach from intersection of South Central Avenue and Baseline Road, go S. on paved rd. into South Mountain Park for 2.6 mi to rd. forks, thence take middle fork of three and go 1.3 mi to rd. fork, take left fork (Summit Drive) and continue around curve and up long grade for 3.4 mi to rd. fork, take right fork and go E. for 1.25 mi to end of truck travel at an island turnaround. Pack E. thence NE. on Hidden Valley trail for about 0.8 mi to large, high, dark rock outcropping on S. side of trail (about 25 minute pack), turn NW. and walk to barren hill and station site. Station mark is 24 ft SW. of large ocotillo bush; set in concrete 0.4 ft below ground surface; Corps of Engineers disk stamped "TL N-11 1960 ARMY MAP SERVICE". (Not visited by USGS in 1965)		V-11	T. 1 S., R. 4 E., near NW. corner of sec. 13. Station is located at the intersection of Gilbert Road and McClintock Drive; 45 ft SE. of intersection; 40 ft S. of centerline of Gilbert Road; 13 ft E. of centerline of McClintock Drive; 0.8 ft higher than rd. intersection; in top of SW. corner of concrete headwall; Corps of Engineers disk stamped "TT V-11 1948"	
	X = 465,394.27 Y = 854,587.21	2313.0		X = 501,897.27 Y = 854,470.02	1165.95
N-11 Panel AMS	A circular, donut shaped panel of black painted rocks; outside diameter, 14 ft; inside diameter, 6 ft; Panel is centered over station mark. Position and elevation of panel same as station mark.		PP V-11 USGS	Centerline of crossroads X = 501,885.3 Y = 854,510.4	1165.1
R-11	T. 1 S., R. 4 E., near SE. corner of sec. 7. To reach from intersection of East Baseline Road and Highline Drive (South 56th Street), drive S. for 2.0 mi to crossroads, turn right and go 1.0 mi along Gilbert Road to trail S. and station site. Station mark is located 42 ft N. of centerline of E.-W. rd.; 9.1 ft W. of telephone pole No. 675; in top of round concrete post projecting 0.2 ft above ground; Corps of Engineers disk stamped "TT R-11 1948 RESET AMS 1955" (Not visited by USGS in 1965)		W-11	T. 1 S., R. 4 E., near SE. corner of sec. 12. Station is located at the intersection of Gilbert Road and Price Road; 40 ft NW. of intersection; 30 ft N. of centerline of E.-W. rd.; 31 ft W. of centerline of N.-S. rd.; 4 ft E. of E. edge of irrigation ditch; in top of concrete post 0.1 ft below surface of ground; Corps of Engineers disk stamped "TT W-11 1948 RESET 1955"	
	X = 480,714.40 Y = 854,481.77	1281.0		X = 507,155.42 Y = 854,616.60	1191.19
PP R-11 AMS	The intersection of S. edge of E.-W. rd. and centerline of trail S.		PP W-11 USGS	Centerline of crossroads X = 507,187.4 Y = 854,588.2	1190.7
	X = 480,729.90 Y = 854,432.74	1279.2	X-11	T. 1 S., R. 5 E., near NE. corner of sec. 18. Station is located at the intersection of Gilbert and Dobson Roads; 31 ft SW. of intersection; 26 ft S. of centerline of Gilbert Road; 15 ft W. of centerline of Dobson Road; cemented in top of concrete headwall; 0.7 ft higher than rd. intersection; Corps of Engineers disk stamped "TT X-11 1948"	
S-11	T. 1 S., R. 4 E., near SW. corner of sec. 9. Station is located near the intersection of Highline Drive (South 56th Street) and Gilbert Road; 48 ft NE. of intersection; 29 ft E. of centerline of South 56th Street; 38 ft N. of centerline of E.-W. rd.; 3.6 ft NE. of telephone pole No. 55; in top of concrete post projecting 0.1 ft above ground; Corps of Engineers disk stamped "TL S-11 1960 ARMY MAP SERVICE" (Not visited by USGS in 1965)			X = 512,474.90 Y = 854,631.08	1196.82
	X = 486,046.58 Y = 854,547.20	1235.01	PP X-11 USGS	Centerline of crossroads X = 512,489.3 Y = 854,658.1	1196.1
PP S-11A AMS	On E. side of South 56th Street; centerline of small E.-W. ditch at E. edge of headwall.		Y-11	T. 1 S., R. 5 E., near NE. corner of sec. 17. Located at the intersection of Gilbert Road and Alma School Road; 33 ft SE. of intersection; 20 ft W. of centerline of Alma School Road; 24 ft S. of centerline of Gilbert Road; 5.9 ft NNE. of power pole; cemented in top of concrete headwall; Corps of Engineers disk stamped "TT Y-11 1948"	
	X = 486,034.21 Y = 854,581.97	1234.7		X = 517,765.16 Y = 854,712.02	1203.05
T-11 (C&GS BM S-22)	T. 1 S., R. 4 E., near SW. corner of sec. 10. Station is located near the intersection of Kyrene Road and Gilbert Road; 66 ft NE. of RR. grade crossing; 29.5 ft SE. of centerline of RR. tracks; 43 ft W. of centerline of drive to N.; in top of concrete post projecting 0.8 ft above ground; USCGS standard disk stamped "S 22 1933" (Not visited by USGS in 1965)		PP Y-11 USGS	Centerline of E.-W. rd. at centerline of rd. N. X = 517,784.9 Y = 854,736.3	1203.2
	X = 491,334.00 Y = 854,597.56	1195.12			
PP T-11 AMS	92 ft SE. of station mark; centerline of E.-W. ditch at headwall of culvert.		Q-12	T. 1 S., R. 3 E., near SE. corner of sec. 13. To reach from the intersection of Baseline Road and Highline Road (South 56th Street), drive S. for 3.0 mi to rd. intersection, turn right and go W. for 2.0 mi along Warner Road to ranch house and garage; 11 ft S. of N. end of garage; 5.4 ft E. of E. wall of garage; in top of concrete post set flush with ground; Corps of Engineers disk stamped "TT Q-12 1948" (Not visited by USGS in 1965)	
	X = 491,420.95 Y = 854,509.12	1196.2		X = 475,384.88 Y = 849,103.26	1320.51
			PP Q-12 AMS	SE. corner of garage X = 475,380.36 Y = 849,072.74	1320.6

TIER 12

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
S-12	T. 1 S., R. 4 E., near SE. corner of sec. 17. Located at the intersection of Highline Road (South 56th Street) and Warner Road; 23 ft W. of centerline of Highline Road; 35 ft N. of centerline of Warner Road; 2.8 ft NNE. of power pole No. 45/81; in top of concrete post set flush with ground; Corps of Engineers disk stamped "TL S-12 1960 ARMY MAP SERVICE" (Not visited by USGS in 1965)	1219.99	G-13 Panel AMS	The center of white-painted asphalt cross-target panel Same horizontal position as monument	1295.7
PP S-12 AMS	Located 343 ft W. of station; the intersecting centerlines of E.-W. rd. and NE.-SW. ditch (Highline Canal)	1222.2	L-13	T. 1 S., R. 3 E., in NW. corner of sec. 28. To reach from entrance of Phoenix International Harvester Proving Grounds (permission to enter grounds must be obtained from office in truck maintenance building); pass through entrance gate, turn left and follow graveled rd. W. for 1.95 mi to asphalt test track, thence turn left and follow test track for 4.8 mi to parking area on N. side of track, thence take graveled rd. at E. end of parking area and go 0.15 mi to point where rd. turns N., thence turn N. and go 0.1 mi to rd. E., thence turn right and go E. for 0.1 mi, thence leave rd. and go ESE. across country for about 400 ft to station site; in top of round concrete post projecting 0.5 ft above ground; Corps of Engineers disk stamped "TR L-13 1948" (Not visited by USGS in 1965)	1414.04
U-12	T. 1 S., R. 4 E., near NW. corner of sec. 23. Located at the intersection of Warner Road and Canal Drive; 38 ft SE. of intersection; 20 ft E. of centerline of Canal Drive; 34 ft S. of centerline of Warner Road; cemented in top of NW. corner of concrete irrigation structure; Corps of Engineers disk stamped "TT U-12 1948"	1177.78	L-13 Panel AMS	The center of circular black rock panel 14 ft in diameter with open center 6 ft in diameter. Panel is centered over station mark. Same horizontal position as station	1413.6
PP U-12 USGS	Centerline of crossroads	1177.5	S-13	T. 1 S., R. 4 E., in NE. corner of sec. 29. Located at the intersection of Highline Drive (South 56th Street) and Ray Road; 39 ft SW. of intersection; 32 ft S. of centerline of Ray Road; 24 ft W. of centerline of Highline Drive; 5 ft SSE. of steel power pole; 1.6 ft NNE. of fence corner; in top of concrete post set 0.6 ft below ground surface; Corps of Engineers disk stamped "TT S-13 1948 RESET AMS 1955" (Not visited by USGS in 1965)	1199.31
V-12	T. 1 S., R. 4 E., near NE. corner of sec. 23. Located at the intersection of Warner Road and McClintock Drive; 45 ft SW. of intersection; 36 ft W. of centerline of McClintock Drive; in top of NW. corner of concrete irrigation structure; Corps of Engineers disk stamped "TT V-12 1948"	1183.0	PP S-13 AMS	673 ft N. of station S-13; W. edge of N.-S. rd. at centerline of drive W.	1202.3
PP V-12 USGS	Centerline of crossroads	1182.3	U-13	T. 1 S., R. 4 E., near NW. corner of sec. 26. Located at the intersection of Ray Road and Canal Drive; 33 ft SE. of intersection; 21 ft E. of centerline of Canal Drive; 20 ft S. of centerline of Ray Road; 3.5 ft W. of centerline of ditch to S.; in top of NW. corner of concrete headwall, 0.8 ft higher than rd. intersection; Corps of Engineers disk stamped "TT U-13 1948"	1174.52
W-12	T. 1 S., R. 5 E., near NW. corner of sec. 19. Located at the intersection of Warner Road and Price Road; 27 ft SE. of intersection; 25 ft S. of centerline of Warner Road; about 14 ft E. of centerline of Price Road; in top of concrete headwall; Corps of Engineers disk stamped "TT W-12 1948"	1188.41	U-13 Panel USGS	40 ft E. of U-13 station mark; a 12- by 12-foot square white panel.	1173.6
PP W-12 USGS	Centerline of crossroads	1187.8	PP U-13 USGS	Centerline of crossroads	1173.7
X-12	T. 1 S., R. 5 E., near NW. corner of sec. 20. Located at the intersection of Warner Road and Dobson Road; 27 ft SE. of intersection; 14 ft E. of centerline of Dobson Road; 22 ft S. of centerline of Warner Road; in top of N. end of concrete culvert headwall; Corps of Engineers disk stamped "TT X-12 1948"	1197.0	V-13 USGS	Centerline of crossroads	1178.8
PP X-12 USGS	Centerline of crossroads	1196.3	W-13	T. 1 S., R. 4 E., near NE. corner of sec. 26. Located at intersection of McClintock Road and Ray Road; 30 ft SW. of intersection; 24 ft S. of centerline of Ray Road; 14 ft W. of centerline of McClintock Road; 3.5 ft N. of centerline of ditch to W.; in top of N. end of concrete culvert headwall; Corps of Engineers disk stamped "TT V-13 1948"	1181.0
Y-12	T. 1 S., R. 5 E., near SW. corner of sec. 16. Located at the intersection of Warner Road and Alma School Road; 32 ft NE. of intersection; 25 ft N. of Warner Road; 21 ft E. of centerline of Alma School Road; 8.1 ft WNW. of power pole; in top of S. end of concrete headwall; Corps of Engineers disk stamped "TT Y-12 ARMY MAP SERVICE"	1200.4	PP W-13 USGS	Centerline of crossroads	1187.12
PP Y-12 USGS	Centerline of crossroads	1200.2	G-13 (C&GS BM P-272)	T. 1 S., R. 2 E., 0.2 mi SE. of NW. corner of sec. 26. To reach from the intersection of Central Avenue and Baseline Road in Phoenix, go S. on Central Avenue 2.6 mi to three-way intersection in South Mountain Park, thence along center rd. SW. for 1.3 mi to rd. junction, thence right and continue SW. for 2.4 mi to station site. Station is about 40 ft SE. of centerline of rd., and is at geometric center of white-painted asphalt panel; in top of concrete post projecting 0.2 ft.; USC&GS standard disk stamped "P 272 1948 TT G-13" (Not visited by USGS in 1965)	1295.91
TIER 13					

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
X-13	T. 1 S., R. 5 E., near SE. corner of sec. 19. Located at the intersection of Ray Road and Dobson Road; 37 ft NW. of intersection; 35 ft N. of centerline of Ray Road; 14 ft W. of centerline of Dobson Road; cemented in top of concrete headwall; Corps of Engineers disk stamped "TT X-13 1948"		B-14	T. 1 S., R. 4 E., near NE. corner of sec. 32. Located at the intersection of Williams Field Road and Highline Drive (South 56th Street) N.; 18 ft S. of S. edge of pavement of Williams Field Road; 6 ft N. of N. edge of E.-W. ditch; 3 ft ENE. of power pole 20E-5S; in top of concrete post flush with ground; Corps of Engineers disk stamped "TT S-14 1960 ARMY MAP SERVICE" (Not visited by USGS in 1965)	
	X = 512,501.81 Y = 844,209.55	1199.0		X = 486,014.44 Y = 838,512.89	1174.44
PP X-13 USGS	Centerline of crossroads		PP S-14 AMS	643 ft N. of station S.-14; centerline of N.-S. rd. at centerline of NE.-SW. canal.	
	X = 512,516.1 Y = 844,175.8	1197.8		X = 486,038.06 Y = 839,155.55	1178.9
Y-13	T. 1 S., R. 5 E., near NE. corner of sec. 29. Located at the intersection of Ray Road and Alma School Road; 56 ft S. of centerline of Ray Road; 42 ft W. of centerline of Alma School Road; cemented in top of small storm drain structure; 2 ft NW. of E. corner; Corps of Engineers disk stamped "TT Y-13 1962 ARMY MAP SERVICE"		T-14	T. 1 S., R. 4 E., near NW. corner of sec. 34. Located at the intersection of Williams Field Road and Kyrene Road S.; 47 ft S. of centerline of Williams Field Road; 20 ft E. of centerline of Kyrene Road S.; 10 ft SE. of power pole; 5.2 ft SE. of fence corner; in top of concrete post flush with surface of ground; Corps of Engineers disk stamped "TT T-14 1960 ARMY MAP SERVICE" (Not visited by USGS in 1965)	
	X = 517,743.94 Y = 844,076.71	1202.6		X = 491,382.53 Y = 838,534.23	1164.51
Y-13 Panel USGS	Centered over station mark; a 12- by 12-foot square white panel. Position and elevation same as station mark.		PP T-14 AMS	W. edge of N.-S. rd., at point of disappearance of centerline of E.-W. ditch	
PP Y-13 USGS	Centerline of crossroads			X = 491,354.10 Y = 838,541.52	1164.1
	X = 517,785.1 Y = 844,133.2	1203.5			
	TIER 14				
N-14	T. 1 S., R. 3 E., near SW. corner of sec. 26. To reach from the intersection of Baseline Road and Highline Drive (South 56th Street) drive S. on Highline Drive for 5.0 mi to Williams Field Road, thence turn right and go 3.0 mi to end of pavement, thence continue W. on trail for 1.0 mi to station site, just W. of shallow wash. Station mark is located at center of southernmost of two panels; in top of concrete post projecting 0.2 ft; Corps of Engineers disk stamped "TT N-14 1962 ARMY MAP SERVICE" (Not visited by USGS in 1965)		U-14	T. 1 S., R. 4 E., near NE. corner of sec. 34. Located at the intersection of Williams Field Road and Canal Drive; 34 ft S. of centerline of Williams Field Road; 15 ft W. of centerline of Canal Drive; 3.5 ft N. of USCG&S BM "K 277 1948" on same headwall; cemented in top of concrete headwall; Corps of Engineers disk stamped "TT U-14 1948"	
	X = 465,225.67 Y = 838,520.60	1246.0		X = 496,547.20 Y = 838,582.27	1170.33
N-14 Panel AMS	The geometric center of southernmost of two panels; black and white cross-target panel Same position as station mark	1245.8	PP U-14 AMS	On W. side of N.-S. rd., N. edge of E.-W. ditch at headwall. Position same as station mark	1170.2
			PP U-14 USGS	Centerline of crossroads	
				X = 496,562.8 Y = 838,616.3	1169.3
N-14B	T. 1 S., R. 3 E., near SW. corner of sec. 26. To reach from the intersection of Baseline Road and Highline Drive (South 56th Street) drive S. on Highline Drive for 5.0 mi to Williams Field Road, thence turn right and go 3.0 mi to end of pavement, thence continue W. on trail for 1.0 mi to station site, just W. of shallow wash. Station mark is located 310 ft N. of Station N-14; at center of northernmost of two panels; an octagon-shaped steel rod projecting 0.3 ft above ground; designated "TT N-14B 1962 ARMY MAP SERVICE" (Not visited by USGS in 1965)		V-14 (C&GS BM J-277)	T. 1 S., R. 4 E., near SW. corner of sec. 25. Located at the intersection of Williams Field Road and McClintock Drive; 51 ft N. of centerline of Williams Field Road; 12 ft E. of centerline of McClintock Drive; centered in top of concrete headwall; USCG&S standard disk stamped "J 277 1948" (Not visited by USGS in 1965)	
	X = 465,195.37 Y = 838,829.08	1248.4		X = 501,908.23 Y = 838,630.75	1181.07
N-14B Panel AMS	The geometric center of northernmost of two panels; black and white cross-target panel Same position as station mark	1248.1	PP V-14 AMS	337 ft S. of station V-14; on W. side of McClintock Drive; NW. edge of NE.-SW. canal at headwall.	
				X = 501,887.71 Y = 838,294.41	1182.3
P-14	T. 1 S., R. 3 E., in SW. corner of sec. 25. To reach from the intersection of Williams Field Road and Highline Drive (South 56th Street), drive W. 3.0 mi to end of pavement and station site. Station mark is 37 ft N. of centerline of Williams Field Road; 3 ft NE. of fence corner; in top of concrete post projecting 0.4 ft above ground; Corps of Engineers disk stamped "TT P-14 1944 RESET AMS 1953"		W-14 (C&GS BM H-277)	T. 1 S., R. 4 E., near SE. corner of sec. 25. Located at the intersection of Williams Field Road and Price Road; N. of Williams Field Road; 14.5 ft W. of centerline of Price Road; centered in top of headwall of culvert; USCG&S standard disk stamped "H 277 1948" (Not visited by USGS in 1965)	
	X = 470,327.67 Y = 838,576.39	1228.53		X = 507,225.76 Y = 838,802.82	1187.74
P-14 Panel USGS	Centered over station mark; a 12- by 12-foot square white panel Same position as station mark	1228.1	PP W-14 AMS	Centerline of E.-W. ditch at W. headwall. Same position as station mark	1187.6
P-14X	Located about 0.4 mi N. of station P-14. To reach from the intersection of Williams Field Road and Highline Drive (South 56th Street), drive W. 3.0 mi to end of pavement and rd. forks, take right fork and go NW. on track rd. for 0.25 mi to rd. fork, take right fork and go 0.15 mi to dim trail on right, turn right and go up hill passing to right of rugged little hill and into saddle; stay on dim trail until reaching a fair N.-S. trail, turn right and go up first hill about halfway to top, to small nose and station site; cemented in outcropping of bedrock; Corps of Engineers disk stamped "TR P-14 X 1948"		TIER 15		
	X = 470,297.12 Y = 840,482.28	1353.3	G-15	T. 2 S., R. 2 E., near NW. corner of sec. 2. To reach from Laveen, go S. on black top rd. (51st Avenue) for 5.0 mi to rd. intersection at St. Johns Mission, turn left and go E. on graveled rd. for 2.0 mi to large man-made run-off ditch and fence corner and station site. Station mark is 74 ft SE. of where drain crosses rd.; 32 ft S. of centerline of rd.; 2 ft SE. of fence corner; in top of concrete post projecting 0.4 ft above ground; Corps of Engineers disk stamped "TT G-15 1948 RESET AMS 1953"	
				X = 433,982.64 Y = 833,135.97	1081.50
P-14X Panel USGS	Centered over station mark; a 12- by 12-foot square white panel Position and elevation the same as station mark.		PP G-15 AMS	About 900 ft W. of station G-15, the point of vegetation formed by N. edge of E.-W. rd. and SW. edge of NW.-SE. powerline rd.	
				X = 433,090.75 Y = 833,241.82	1081.9

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
J-15	T. 1 S., R. 3 E., near SW. corner of sec. 31; To reach from intersection of South Central Avenue and Baseline Road, go W. along Baseline Road for 5.55 mi to 51st Avenue (Lateral 17); go S. on black top rd. for 6.0 mi to crossroads at St. Johns Mission; turn left and go E. on graded dirt rd. for 4.1 mi to curve in rd. and station site. Station mark is 106 ft NNE. of G.L.O. section corner pipe and is at geometric center of white panel; in top of concrete post projectin. 0.8 ft above ground; Corps of Engineers disk stamped "TT J-15 1948"	1153.43
	X = 444,590.73 Y = 833,318.41	
J-15 Panel AMS	White cross-target panel centered over station mark. Same position as station mark	1152.6
Q-15	T. 2 S., R. 3 E., near SE. corner of sec. 36. To reach from intersection of Baseline Road and Highline Drive (South 56th Street), go S. on 56th Street to end at Williams Field Road, turn right and go W. for 2.0 mi to rd. S., turn left and go S. for 1.0 mi to curve to E. and station site. Station is located 19 ft W. of centerline of N.-S. rd.; 16 ft SE. of irrigation control gate; 17 ft NE. of electric pump; 9.9 ft NNW. of power pole; 2.5 ft SW. of fence corner; in top of concrete post flush with ground; Corps of Engineers disk stamped "TT Q-15 1948 RESET AMS 1953" (Not visited by USGS in 1965)	1168.5
	X = 475,562.48 Y = 833,321.68	
PP Q-15 AMS	The NW. end of ditch, at centerline	1168.0
	X = 475,488.44 Y = 833,282.93	
S-15	T. 1 S., R. 4 E., near SE. corner of sec. 32. To reach from intersection of Baseline Road and Highline Drive (South 56th Street), drive S. for 5.0 mi to Williams Field Road, turn left for 0.1 mi to T-rd. S. (Maricopa Highway); turn right and go S. for 1.0 mi to start of curve in hwy. and station site. Station mark is located 28 ft W. of centerline of hwy; 25 ft N. of ditch; 5.6 ft W. of centerline of ditch N.; in top of concrete post set 1.0 ft below surface of ground; Corps of Engineer disk stamped "TT S-15 1960 ARMY MAP SERVICE" (Not visited by USGS in 1965)	1153.45
	X = 485,979.98 Y = 833,308.53	
PP S-15 AMS	Intersecting centerline of N.-S. hwy. and E.-W. ditch	1154.1
	X = 486,007.56 Y = 833,284.27	
X-15	T. 1 S., R. 5 E., near SE. corner of sec. 31. Located at intersection of Pecos Road and Dobson Road; 20 ft N. of centerline of Pecos Road; 21 ft W. of centerline of Dobson Road; 11 ft S. of centerline of E.-W. ditch; 3 ft SW. of telephone pole; in top of concrete post flush with ground and level with intersection; Corps of Engineers disk stamped "TT X-15 1948" (Not visited by USGS in 1965)	1196.0
	X = 512,543.60 Y = 833,522.78	
PP X-15 AMS	On W. side of N.-S. rd., centerline of E.-W. ditch at headwall of culvert.	1195.4
	X = 512,545.21 Y = 833,533.29	
TIER 16		
S-16	T. 2 S., R. 4 E., near SE. corner of sec. 5. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on hwy. for 2.1 mi to intersection of E.-W. track rd., turn left and go ENE. on track rd. for 0.25 mi to intersection of NE.-SW. track rd., continue E. for 0.1 mi to track rd. intersection and station site. Station mark is 7 ft E. of centerline of N.-S. track rd.; 8.5 ft N. of centerline of E.-W. track rd.; in top of concrete post projecting 0.3 ft above ground; Corps of Engineers disk stamped "TT S-16 1948" (Not visited by USGS in 1965)	1148.72
	X = 485,752.28 Y = 828,628.28	
PP S-16 AMS	Intersecting centerlines of track rds. (crossroads)	1147.6
	X = 485,746.93 Y = 828,619.19	
T-16	T. 2 S., R. 3 E., near NE. corner of sec. 9. To reach from intersection of Cleveland Street and Arizona Avenue in Chandler, drive W. on Cleveland Street (which becomes Williams Field Road) for 6.0 mi to intersection of Kyrena Road, turn left and go S. for 1.0 mi, thence jog E. for 0.05 mi, continue S. for 1.0 mi to station site. Station is located 59 ft W. of N.-S. rd., in center of permanent panel; in top of concrete post projecting 0.6 ft; Corps of Engineers disk stamped "TT T-16 1948" (Not visited by USGS in 1965)	1158.1
	X = 491,396.62 Y = 827,819.58	

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
T-16 Panel AMS	Centered over station mark, black and white cross- target panel. Same position as station mark	1157.5
W-16	T. 2 S., R. 5 E., near NW. corner of sec. 7 To reach from intersection of Arizona Avenue (State Highway 87) and Germann Road S. of Chandler, drive W. on Germann Road for 3.0 mi to junction with Price Road and station site. Station mark is located in SE. corner of intersection; 66 ft E. of centerline of Price Road; 37 ft S. of centerline of Germann Road; in top of concrete post; Corps of Engineers disk stamped "TT W-16 1948 RESET AMS 1953" (Not visited by USGS in 1965)	1182.33
	X = 507,360.25 Y = 827,858.68	
PP W-16 AMS	On W. side of Price Road; centerline of E.-W. ditch at culvert headwall.	1181.5
	X = 507,269.41 Y = 827,858.76	
X-16	T. 2 S., R. 5 E., near SW. corner of sec. 5. To reach from intersection of Arizona Avenue (State Highway 87) and Germann Road S. of Chandler, drive W. on Germann Road for 2.0 mi to Dobson Road and station site. Station mark is located NE. of intersection; 37 ft N. of centerline of Germann Road; 26 ft E. of centerline of Dobson Road; cemented in top of concrete headwall, 0.6 ft higher than intersection; Corps of Engineers disk stamped "TT X-16 1948" (Not visited by USGS in 1965)	1194.35
	X = 512,606.81 Y = 828,012.02	
PP X-16 AMS	Intersecting centerline of N.-S. ditch and ditch W.	1192.5
	X = 512,547.09 Y = 828,099.92	
TIER 17		
-17	T. 2 S., R. 2 E., approximately 0.1 mi S. of NE. corner of sec. 15. To reach from Laveen, drive S. on black top rd. for 6.35 mi to rd. forks, take left fork and go SE. for 2.4 mi to powerline crossing, turn sharp left and go NW. on powerline rd. for 0.6 mi to cross trail and station site. Station mark is located 26 ft SW. of intersection; 16 ft S. of centerline of NW.-SE. trail; in top of concrete post projecting 0.2 ft; Corps of Engineers disk stamped "TT G-17 1962 ARMY MAP SERVICE"	1071.0
	X = 433,942.21 Y = 822,541.20	
J-17 Panel USGS	Centered over station mark, 12- by 12-foot square white panel. Position same as station mark	1070.8
J-17	T. 2 S., R. 3 E., near SW. corner of sec. 7. To reach from crossroads at St. Johns Mission, drive E. on graded rd. for 1.0 mi to powerline crossing, turn right and go SE. on powerline rd. for 0.65 mi to trail crossing, turn left and go SE. on SW. side of fence for 0.75 mi to fence corner, turn left and follow fence NE. for 0.35 mi to fence corner, turn right and go SE. on SW. side of fence for 2.15 mi to small grove of trees and station site on left. Station mark is located 105 ft NE. of fence; 213 ft NE. of rd.; in geometric center of black panel; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "TT J-17 1948" (Not visited by USGS in 1965)	1071.4
	X = 444,806.01 Y = 823,168.09	
J-17 Panel AMS	Geometric center of black asphalt, cross-target panel. Position same as station mark	1071.0
L-17	T. 2 S., R. 3 E., near NE. corner of sec. 17. To reach from main crossroads near St. Johns Mission, drive E. on graded section line rd. for 1.9 mi to powerline crossing, turn right and go SE. on powerline rd. for 4.0 mi to cross road, turn left and go E. on trail for 0.7 mi to station site. Station is located 42 ft S. of trail and is at center of black asphalt panel; in top of concrete post projecting 0.1 ft; Corps of Engineers disk stamped "TT L-17 1948" (Not visited by USGS in 1965)	1097.4
	X = 454,784.16 Y = 822,858.51	
L-17 Panel AMS	Geometric center of black asphalt, cross-target panel. Position same as station mark	1097.3

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
M-17	T. 2 S., R. 3 E., about 0.3 mi S. of NW. corner of sec. 15. Station is located about 1.7 mi N. of Lone Butte Ranch and about 1.0 mi WSW. of Lone Butte; Station mark is in box-shaped clearing; 9 ft S. of centerline of E.-W. rd.; in top of concrete post projecting 0.6 ft; Corps of Engineers disk stamped "TT M-17 1948"		R-17	T. 2 S., R. 4 E., near NE. corner of sec. 18. To reach from the intersection of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 2.1 mi to E.-W. cross trails; turn right and go 0.55 mi to telephone line, turn left and go S. along telephone line rd. for 0.85 mi to telephone pole No. 475. Station mark is about 350 ft W. of telephone line; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "BM R-17 1948"	
	X = 460,252.55 Y = 821,697.30	1099.5		X = 480,911.24 Y = 822,895.33	1135.47
M-17 Panel USGS	Centered over station mark, 6- by 6-foot black tar-paper panel. Position same as station mark	1098.9		Position and elevation by USGS in 1965.	
N-17 JACKSON	T. 2 S., R. 3 E., near NE. corner of sec. 15. To reach from intersection of Arizona Avenue and Cleveland Street in Chandler, drive W. on Cleveland (which becomes Williams Field Road) for 9.0 mi to T.-rd. S., turn left and go S. for 1.0 mi, then jog E. for 0.1 mi, then continue S. for 1.35 mi to crossroads, turn right and go SW. on main rd. for 2.35 mi to curve to S. and trail N., turn sharp right and go N. on trail 0.4 mi to base of butte. Back to top of butte and station mark (about 15 minute pack). Cemented in drill hole, in bed rock outcropping 0.2 ft below surface; Corps of Engineers disk stamped "JACKSON 1935 RESET AMS 1948" (This station was reset in a slightly different position from USC&GS JACKSON 1935.)		R-17 Panel USGS	Centered over station mark, 9- by 9-foot square white panel; two 3- by 12-foot wings for identification. Position same as station mark	1135.0
	X = 464,815.87 Y = 822,834.26	1257.94			
N-17 Panel AMS	Geometric center of white rock, cross-target panel. Position and elevation same as station mark.		R $\frac{1}{2}$ -17 USGS	Located about 0.5 mi E. of station R-17; a 3/8-in. reinforcing rod projecting 0.3 ft; centered over station mark, 9- by 9-foot square white panel. No horizontal position	Rod Elev. 1141.80 Panel Elev. 1141.5
P-17	T. 2 S., R. 3 E., near SE. corner of sec. 11. To reach from intersection of Baseline Road and Highline Drive (South 56th Street), drive S. on 56th Street for 5.0 mi to Williams Field Road, turn right and go W. for 2.0 mi to T.-rd. S., turn left and go S. for 1.0 mi, then jog E. for 0.1 mi, then continue S. for 1.35 mi to intersection, turn right and go SW. for 1.05 mi to trail leading S. between two large trees for 0.2 mi to station site. Station is located 8 ft W. of N.-S. trail; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "BM P-17 1948"		J-17	T. 2 S., R. 4 E., about 0.25 mi W. of NE. corner of sec. 17. To reach from intersection of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 2.5 mi to rd. SE. by side of gravel pit, turn left and go ESE. for 0.3 mi to trail leading S., turn right and follow trail S. for 0.6 mi to station site. Station is 66 ft E. of trail and at center of black painted panel; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT S-17 1960 ARMY MAP SERVICE"	
	X = 470,730.37 Y = 823,247.35	1120.83		X = 485,102.43 Y = 822,817.24	1144.60
P-17 Panel USGS	Centered over station mark, 9- by 9-foot square white panel. There are two 3- by 12-foot wing panels for identification Position same as station mark	1120.3		Centered over station mark; black cross-target panel. Same horizontal position as station mark	1144.3
P $\frac{1}{2}$ -17 USGS	Located about 0.5 mi E. of station P-17; 2- by 2-in. wooden hub projecting 0.1 ft; paneled with 9- by 9-foot square white panel centered over station mark. No horizontal position	Hub elev. 1125.46 Panel elev. 1125.4	S-17 Panel AMS	Located about 0.25 mi E. of station S-17; in open dry lake bed; station is marked by 3/8-in. reinforcing rod projecting 0.2 ft; paneled with 9- by 9-foot square white panel centered over station mark. No horizontal position	Rod Elev. 1144.80 Panel Elev. 1144.6
Q-17	T. 2 S., R. 3 E., near NE. corner of sec. 13. To reach from intersection of Baseline Road and Highline Drive (South 56th Street), drive S. on 56th Street for 5.0 mi to Williams Field Road, turn right and go W. for 2.0 mi to T.-rd. S., turn left and go S. for 1.0 mi, then jog E. for 0.1 mi, then continue S., following powerline for 2.0 mi to station site. Station is on W. side of powerline, just SW. of G.L.O. section corner pipe; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "TT Q-17 ARMY MAP SERVICE"		T-17	T. 2 S., R. 4 E., about 0.2 mi W. of SE. corner of sec. 9. To reach from intersection of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 2.5 mi to rd. SE. by side of gravel pit, turn left and go SE. for 1.4 mi to intersection of cross trails and station site. Station mark is 26 ft N. of centerline of NW.-SE. rd. and 7 ft W. of centerline of N.-S. trail; in top of concrete post projecting 0.4 ft above ground; Corps of Engineers disk stamped "TT T-17 1948"	
	X = 476,018.23 Y = 822,964.56	1131.64 Elev. by USGS		X = 490,358.41 Y = 823,253.73	1155.5
Q-17 Panel USGS	A 6- by 6-foot square black panel on 12- by 12-foot square white panel, both centered over station mark. Horizontal position same as station mark	1131.2	T-17 Panel USGS	6- by 6-foot square white panel, centered over station mark; two 3- by 12-foot wings for identification. Same horizontal position as station mark	1155.1
Q $\frac{1}{2}$ -17 USGS	Located about 0.5 mi E. of station Q-17; 3/8-in. reinforcing rod projecting 0.2 ft; paneled with 9- by 9-foot square white panel centered over station mark. No horizontal position	Rod elev. 1135.04 Panel elev. 1134.8	J-17	T. 2 S., R. 4 E., near NE. corner of sec. 15. To reach from intersection of Baseline Road and Highline Drive (South 56th Street), drive S. on 56th Street for 5.0 mi to Williams Field Road, turn left and go E. for 1.9 mi to cross road, turn right and go S. for 3.1 mi to cross trail near large mesquite bush and station site. Station mark is located 45 ft E. of centerline of main N.-S. rd.; 12 ft W. of centerline of bulldozed trail; at S. edge of SW.-NE. trail; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT U-17 1948"	
				X = 496,161.10 Y = 822,763.77	1165.01
			U-17 Panel USGS	Centered over station mark; 12- by 12-foot square white panel. Same horizontal position as station mark	1164.7
			W-17	T. 2 S., R. 5 E., near SW. corner of sec. 7. To reach from intersection of Cleveland Street and Arizona Avenue in Chandler, drive W. on Cleveland Street for 3.0 mi to Price Road, turn left and go S. for 3.1 mi to T.-rd. E. and station site. Station is located 36 ft NE. of intersection; 19 ft N. of centerline of E.-W. rd.; 30 ft E. of centerline of Price Road; 11 ft S. of centerline of ditch; in top of concrete post set flush with ground; Corps of Engineers disk stamped "TT W-17 1948"	
				X = 507,383.96 Y = 822,607.54	1186.43
			W-17 Panel USGS	Centered over station mark, 12- by 12-foot square white panel. Same horizontal position and elevation as station mark.	

TIER 18

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
X-17	T. 2 S., R. 5 E., near NE. corner of sec. 18. To reach from intersection of Cleveland Street and Arizona Avenue in Chandler, drive W. on Cleveland Street for 2.0 mi, turn left on Dobson Road and go S. for 3.0 mi to rd. intersection and station site. Station is located 100 ft S. of centerline of E.-W. rd.; 20 ft W. of centerline of Dobson Road; 18 ft SE. of SE. corner of electric pump; in top of concrete post projecting 0.4 ft above ground; Corps of Engineers disk stamped "TT X-17 1948 RESET AMS 1953" (Not visited by USGS in 1965)		L-18	T. 2 S., R. 3 E.; about 0.1 mi S. of NW. corner of sec. 21. To reach from Lone Butte Ranch, drive W. for 1.0 mi to T-rd. N., turn right and go N. for 0.9 mi along fence to fence corner where rd. turns W., and station site. Station mark is located 3 ft SW. of fence corner; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT L-18 1948"	
	X = 512,610.14 Y = 822,587.04	1197.0		X = 454,970.82 Y = 817,216.59	1096.0
PP X-17 AMS	At W. edge of Dobson Road, centerline of E.-W. ditch at headwall.		L-18 Panel USGS	A 6- by 6-foot square white panel centered over station mark.	1095.7
	X = 512,619.54 Y = 822,645.77	1196.8		Same horizontal position as station mark	
Y-17	T. 2 S., R. 5 E., near SE. corner of sec. 8. To reach from intersection of Cleveland Street and Arizona Avenue in Chandler, drive W. on Cleveland Street for 1.0 mi, turn left on Alma School Road and go S. for 3.0 mi to rd. intersection and station site. Station is located 17 ft N. of centerline of E.-W. rd., and 16 ft W. of centerline of N.-S. rd.; cemented in top of concrete headwall, 1.4 ft higher than intersection; Corps of Engineers disk stamped "TT Y-17 1948"		M-18	T. 2 S., R. 3 E., near NW. corner of sec. 22. To reach from main rd. intersection near St. Johns Mission, drive E. on graveled rd. for 1.9 mi to powerline, turn right and go SE. for 5.6 mi to prominent E.-W. ditch, continue SE. on powerline rd. for 0.4 mi to faint N.-S. trail and station site. Station is located 63 ft S. of intersection of N.-S. trail with powerline rd.; 18 ft E. of N.-S. trail; 20 ft W. of large lone tree; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "BM M-18 1948"	
	X = 517,959.14 Y = 822,798.60	1207.0		X = 460,375.66 Y = 817,575.86	1101.6
Y-17 Panel USGS	Located 86 ft SE. of station Y-17; center of 12- by 12-foot square white panel.		M-18 Panel USGS	A 6- by 6-foot square white panel centered over station mark.	
	X = 518,008.06 Y = 822,728.00	1204.7		Same horizontal position as station mark	1101.2
TIER 17 1/2 (USGS Leveling, 1965)			N-18	T. 2 S., R. 3 E., near SE. corner of sec. 15. To reach from Lone Butte Ranch, drive E. for 1.0 mi to field rd. N., turn left and go N. for 1.0 mi to E.-W. ditch crossing and station site. Station is located 20.5 ft W. of centerline of N.-S. rd.; 18 ft S. of centerline of E.-W. ditch; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "TT N-18 1948 RESET AMS 1956"	
P-17 1/2 USGS	Located about 0.5 mi S. of station P-17; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 9- by 9-foot square white panel centered over station mark.			X = 465,534.09 Y = 818,021.46	1106.92
	Rod Elev. 1115.83 Panel Elev. 1115.6		N-18 Panel USGS	A 6- by 6-foot square white panel centered over station mark.	
P 1/2-17 1/2 USGS	T. 2 S., R. 3 E., near center of sec. 13, in lake bed on W. side of old N.-S. track rd.; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; 6- by 6-foot square white panel is centered on a 12- by 12-foot square black panel, both centered over station mark.			Same horizontal position as station mark	1106.4
	Rod Elev. 1119.29 Panel Elev. 1119.0		P-18	T. 2 S., R. 3 E.; about 0.2 mi S. of NE. corner of sec. 23; 2.0 mi E. of Lone Butte Ranch, thence 0.8 mi N.; station mark is 22 ft E. of NW.-SE. trail; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "BM P-18 1948"	
Q-17 1/2 USGS	Located about 0.5 mi S. of Q-17 at 1/4 cor. reset by powerline survey; on W. side of powerline; station mark is 1/2-in. rod projecting 0.1 ft; 9- by 9-foot square white panel centered over station mark.			X = 470,736.54 Y = 816,994.76	1116.29
	Rod Elev. 1124.60 Panel Elev. 1124.5		P-18 Panel USGS	A 9- by 9-foot square white panel centered over station mark. There are two 3- by 12-foot wing panels for identification.	
Q 1/2-17 1/2 USGS	T. 2 S., R. 4 E., near center of sec. 18, near N.-S. track rd.; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 9- by 9-foot square white panel centered over station mark.			Same horizontal position as station mark	1115.9
	Rod Elev. 1130.17 Panel Elev. 1130.0		P 1/2-18 USGS	Located about 0.5 mi W. of station Q-18; in flat open area; 50 ft W. of old N.-S. track rd.; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; 9- by 9-foot square white panel is centered over station mark.	
R-17 1/2 USGS	Located about 0.5 mi S. of R-17; in low flat area SW. of 1/4 cor.; about 100 ft W. of telephone line; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; 9- by 9-foot square white panel centered over station mark.			No horizontal position	Rod Elev. 1124.64 Panel Elev. 1124.3
	Rod Elev. 1135.98 Panel Elev. 1135.7		Q-18	T. 2 S., R. 3 E., near NE. corner of sec. 24. To reach from RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 13.3 mi to T-rd. SW., turn left and go W. for 0.8 mi to powerline crossing, turn right and go N. on powerline rd. for 1.0 mi to station site. Station mark is located in center of black asphalt panel W. of powerline; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "TT Q-18 1948"	
R 1/2-17 1/2 USGS	T. 2 S., R. 4 E., near center of sec. 17; station mark is 2- by 2-in. wooden hub projecting 0.2 ft; 9- by 9-foot square panel centered over station mark.			X = 475,721.68 Y = 817,649.07	1129.79
	Hub Elev. 1142.60 Panel Elev. 1142.4		Q-18 Panel AMS	Centered over station mark, black asphalt cross-target panel.	
S-17 1/2 USGS	Located about 0.25 mi E. and 0.5 mi S. of station S-17; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 9- by 9-foot square white panel is centered over station mark.			Same horizontal position as station mark	1129.3
	Rod Elev. 1146.61 Panel Elev. 1146.4		Q 1/2-18 USGS	Located about 0.25 mi E. of station Q-18; marked with 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark.	
				No horizontal position	Rod Elev. 1131.36 Panel Elev. 1131.2

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
Q4-18 USGS	Located about 0.5 mi E. of station Q-18; in open area just W. of old N.-S. track rd.; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 9- by 9-foot square white panel centered over station mark. No horizontal position	Rod Elev. 1133.11 Panel Elev. 1132.9	U-18	T. 2 S., R. 4 E., about 0.1 mi N. of SW. corner of sec. 14. Station is located on reservation of Goodyear Air Force Auxiliary Airfield. (Permission to enter can be obtained at Williams Air Force Base). To reach from intersection of Cleveland Street and Arizona Avenue in Chandler, drive S. on State Highway 87 for 4.0 mi, turn right on Rittenhouse Road and go W. for 3.0 mi to airfield main gate (which may be locked), from main gate, go due W. for 1.75 mi to main runway, turn right and follow runway NW. for 0.3 mi to station site on left. Station mark is about 390 ft SW. of SW. edge of runway; 15 ft NE. of centerline of old rd.; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT U-18 1948" X = 497,126.01 Y = 818,147.51	1164.61
Q3/4-18 USGS	Located about 0.75 mi E. of station, in lake bed; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark. No horizontal position	Rod Elev. 1136.46 Panel Elev. 1136.3	U-18 Panel USGS	A 6- by 6-foot square white panel centered over station mark. Horizontal position same as station mark	1164.3
R-18	T. 2 S., R. 4 E., near NW. corner of sec. 20. To reach from junction of Williams Field Road and Maricopa Highway, drive S. on hwy. for 4.3 mi to telephone pole No. 455 E. of hwy. and station site; station mark is under telephone line; 25 ft N. of pole No. 455; 42 ft ESE. of centerline of hwy.; in top of concrete post flush with dirt bank; Corps of Engineers disk stamped "BM R-18 1948" X = 481,074.55 Y = 817,503.47 1138.38 Position and elevation by USGS in 1965.	1138.38	X-18	T. 2 S., R. 5 E., near NE. corner of sec. 19. To reach from intersection of Cleveland Street and Arizona Avenue in Chandler, drive S. on State Highway 87 for 4.0 mi to intersection, turn right and go W. for 2.0 mi to cross roads and station site. Station mark is located 15.5 ft S. of centerline of E.-W. rd.; 9 ft W. of centerline of N.-S. rd.; 4 ft E. of centerline of irrigation ditch; 1.6 ft NW. of fence corner; in top of concrete post projecting 0.2 ft; Corps of Engineers disk stamped "TT X-18 RESET AMS 1952" (Not visited by USGS in 1965) Horizontal position not available	1193.6
R-18 Panel USGS	A 9- by 9-foot square white panel centered over station mark. There are two 3- by 12-foot wings for identification. Horizontal position and elevation same as station mark.		PP X-18 AMS	Located 42 ft NE. of station on E. side of N.-S. rd.; centerline of E.-W. ditch at headwall. X = 512,674.35 Y = 817,406.08	1192.6
R4-18 USGS	Located about 0.25 mi E. of station R-18, in dry lake bed; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; 6- by 6-foot square white panel is centered over station mark. No horizontal position	Rod Elev. 1141.70 Panel Elev. 1141.4			
R4-18 USGS	Located about 0.5 mi E. of station R-18; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 9- by 9-foot square white panel centered over station mark. No horizontal position	Rod Elev. 1143.96 Panel Elev. 1143.8		TIER 18† (USGS Leveling, 1965)	
R3/4-18	Located about 0.75 mi E. of station R-18; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; 6- by 6-foot square white panel centered over station mark. No horizontal position	Rod Elev. 1145.69 Panel elev. 1145.4	Q-18†	Located about 0.25 mi S. of station Q-18; on W. edge of powerline; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark. Rod Elev. 1127.86 Panel Elev. 1127.7	
S-18	T. 2 S., R. 4 E., near NE. corner of sec. 20. To reach from junction of Williams Field Road and Maricopa Highway, drive S. on Maricopa Highway for 3.95 mi to trail E., just S. of pole No. 467, turn left and go E. for 0.35 mi to cross trail, turn right and go SE. for 0.1 mi to alkali clearing and dim trail E., turn left and go E. for 0.55 mi to large alkaline clearing and station site. Station is located about 275 ft W. of G.L.O. section corner pipe; in top of concrete post projecting 0.1 ft; Corps of Engineers disk stamped "BM S-18 1948" X = 486,221.98 Y = 817,775.81 1146.80 Horizontal position by USGS in 1965.	1146.80	Q4-18†	Located about 0.25 mi E. and 0.25 mi S. of station Q-18; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark. Rod Elev. 1131.74 Panel Elev. 1131.5	
S-18 Panel USGS	A 9- by 9-foot square white panel centered over station mark. There are two 3- by 12-foot wing panels for identification. Same horizontal position as station mark	1146.7	Q3/4-18†	Located about 0.75 mi E. and 0.25 mi S. of station Q-18; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; 6- by 6-foot square white panel centered over station mark. Rod Elev. 1135.15 Panel Elev. 1134.9	
T-18	T. 2 S., R. 4 E., near SW. corner of sec. 15. To reach from junction of Williams Field Road and Maricopa Highway, drive S. on Maricopa Highway for 1.8 thence turn SE. on track rd. which follows the surveyed route of proposed Interstate Highway 10, and go 3.0 mi N. to station site on right. Station mark is 100 ft W. of track rd.; about 1000 ft S. of USC&GS BM "E 414 1962 about 400 ft N. of G.L.O. section corner pipe; in alkali clearing; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "BM T-18 1948" X = 491,875.46 Y = 818,246.63 1155.3 Horizontal position by USGS in 1965.	1155.3	R-18†	Located about 0.25 mi S. of station R-18; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; 6- by 6-foot square white panel centered over station mark. Rod Elev. 1138.96 Panel Elev. 1138.7	
T-18 Panel USGS	A 6- by 6-foot square white panel centered over station mark. There are two 3- by 12-foot wing panels for identification. Same horizontal position as station mark	1154.8	R4-18†	Located about 0.25 mi E. and 0.25 mi S. of station R-18; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; at center of 6- by 6-foot square white panel. Rod Elev. 1140.81 Panel Elev. 1140.5	

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
R $\frac{1}{2}$ -18 $\frac{1}{2}$	Located about 0.5 mi E. and 0.25 mi S. of station R-18; station mark is 2- by 2-in. wooden hub projecting 0.2 ft; 6- by 6-foot square white panel is centered over station mark.	Hub Elev. 1143.35 Panel Elev. 1143.2
R $\frac{3}{4}$ -18 $\frac{1}{2}$	Located about 0.75 mi E. and 0.25 mi S. of station R-18; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark.	Rod Elev. 1146.41 Panel Elev. 1146.2
S-18 $\frac{1}{2}$	Location about 0.25 mi S. of station S-18; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark.	Rod Elev. 1147.02 Panel Elev. 1146.8

TIER 18 $\frac{1}{2}$
(USGS Leveling, 1965)

P-18 $\frac{1}{2}$	Located about 0.5 mi S. of station P-18; about 100 ft N. of edge of cultivated field; station mark is 2- by 2-in. wooden hub projecting 0.3 ft; 9- by 9-foot square white panel is centered over station mark.	Hub Elev. 1122.47 Panel Elev. 1122.2
P $\frac{1}{2}$ -18 $\frac{1}{2}$	Located about 0.5 mi E. and 0.5 mi S. of station P-18; T. 2 S., R. 3 E., near center of sec. 24; just N. of edge of heavy brush; station mark is 3/8-in. reinforcing rod projecting 0.1 ft; 9- by 9-foot square white panel is centered over station mark.	Rod Elev. 1121.38 Panel Elev. 1121.3
Q-18 $\frac{1}{2}$	Located about 0.5 mi S. of station Q-18; at 1/4 cor. reset by powerline survey; on W. side of powerline; station mark is 1/2-in. steel rod flush with ground; 9- by 9-foot square white panel is centered over station mark.	Rod Elev. 1128.83 Panel Elev. 1128.8
Q $\frac{1}{4}$ -18 $\frac{1}{2}$	Located about 0.25 mi E. and 0.5 mi S. of station Q-18; station mark is 2- by 2-in. wooden hub projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark.	Hub Elev. 1130.21 Panel Elev. 1130.0
Q $\frac{1}{2}$ -18 $\frac{1}{2}$	Located about 0.5 mi E. and 0.5 mi S. of station Q-18; T. 2 S., R. 4 E., near center of sec. 19; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 9- by 9-foot square white panel is centered over station mark.	Rod Elev. 1132.59 Panel Elev. 1132.4
Q $\frac{3}{4}$ -18 $\frac{1}{2}$	Located about 0.75 mi E. and 0.5 mi S. of station Q-18; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; 6- by 6-foot square white panel is centered over station mark.	Rod Elev. 1135.39 Panel Elev. 1135.1
R-18 $\frac{1}{2}$	Located about 0.5 mi S. of station R-18; station mark is G.L.O. 1/4 cor. pipe common to sections 19 and 20; pipe projects 0.2 ft; 9- by 9-foot square white panel is centered over station mark.	Pipe Elev. 1138.30 Panel Elev. 1138.1
R $\frac{1}{2}$ -18 $\frac{1}{2}$	Located about 0.25 mi E. and 0.5 mi S. of station R-18; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; 6- by 6-foot square white panel is centered over station mark.	Rod Elev. 1140.04 Panel Elev. 1139.7

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
R $\frac{1}{2}$ -18 $\frac{1}{2}$	T. 2 S., R. 4 E.; at center of sec. 20; station mark is G.L.O. 1/4 cor. pipe projecting 0.1 ft; 9- by 9-foot square white panel centered over station mark.	Pipe Elev. 1142.44 Panel Elev. 1142.3
R $\frac{3}{4}$ -18 $\frac{1}{2}$	Located about 0.75 mi E. and 0.5 mi S. of station R-18; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark.	Rod Elev. 1144.42 Panel Elev. 1144.2
S-18 $\frac{1}{2}$	Located about 0.5 mi S. of station S-18; station mark is G.L.O. 1/4 cor. pipe common to secs. 20 and 21, T. 2 S., R. 4 E., projecting 0.3 ft; 9- by 9-foot square white panel centered over station mark.	Pipe Elev. 1146.81 Panel Elev. 1146.5

TIER 18 3/4
(USGS Leveling, 1965)

Q-18 3/4	Located about 0.75 mi S. of station Q-18; on W. side of powerline; a reset 1/16 cor. by powerline survey; station mark is 3/4-in. pipe flush with ground; 6- by 6-foot square white panel centered over station mark.	Pipe Elev. 1128.63 Panel Elev. 1128.6
Q $\frac{1}{2}$ -18 3/4	Located 0.25 mi N. of rd. to Lone Butte Ranch and 0.25 mi E. of powerline; station mark is 2- by 2-in. wooden hub projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark.	Hub Elev. 1128.95 Panel Elev. 1128.8
Q $\frac{1}{2}$ -18 3/4	Located about 0.25 mi N. of rd. to Lone Butte Ranch and 0.25 mi W. of Maricopa Highway; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark.	Rod Elev. 1129.72 Panel Elev. 1129.5
Q $\frac{3}{4}$ -18 3/4	Located about 0.2 mi N. of junction of Maricopa Highway and rd. to Lone Butte Ranch; about 400 ft W. of hwy.; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark.	Rod Elev. 1131.05 Panel Elev. 1130.9
R-18 3/4	Located about 0.75 mi S. of station R-18; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; 6- by 6-foot square white panel centered over station mark.	Rod Elev. 1135.22 Panel Elev. 1134.9
R $\frac{1}{2}$ -18 3/4	Located about 0.25 mi E. and 0.75 mi S. of station R-18; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark.	Rod Elev. 1137.37 Panel Elev. 1137.2
R $\frac{1}{2}$ -18 3/4	Located about 0.5 mi E. and 0.75 mi S. of station R-18; station mark is 3/8-in. reinforcing rod projecting 0.3 ft; 6- by 6-in. square white panel centered over station mark.	Rod Elev. 1139.78 Panel Elev. 1139.6
R $\frac{3}{4}$ -18 3/4	Located about 0.75 mi E. and 0.75 mi S. of station R-18; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark.	Rod Elev. 1142.77 Panel Elev. 1142.6
S-18 3/4	Located about 0.75 mi S. of station S-18; station mark is 3/8-in. reinforcing rod projecting 0.2 ft; 6- by 6-foot square white panel centered over station mark.	Rod Elev. 1145.43 Panel Elev. 1145.2

TIER 19

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
G-19	T. 2 S., R. 2 E., about 0.2 mi SSE. of NW. corner of sec. 26. To reach from St. Johns Indian School, drive S. on 51st Avenue for 1.3 mi to rd. fork, thence take right fork and go 2.9 mi S. to rd. fork, thence take left fork and go E. for 0.95 mi to canal and water tank, thence turn N. and follow W. side of canal to canal crossing, thence cross canal and turn S. and follow trail for 0.25 mi to large clearing and rd. E., thence follow rd. E. for 0.55 mi to pipeline maintenance rd., thence continue E. on trail for 0.5 mi to dim trail N. and station site; at triangle formed by trails; 85 ft SE. of westernmost tip of triangle and 43 ft SW. of easternmost tip of triangle; in top of concrete post projecting 0.2 ft; Corps of Engineers disk stamped "G-19 1948"	1050.6	Q-19	T. 2 S., R. 4 E., near NW. corner of sec. 30. To reach from Southern Pacific Railroad crossing in Maricopa, drive N. along hwy. toward Phoenix for 13.3 mi to rd. left to Lone Butte Ranch, thence turn left and go W. for 0.6 mi; about 0.1 mi E. of powerline; 250 ft S. of rd.; at center of black rock panel; in top of concrete post; Corps of Engineers disk stamped "TR Q-19 1960 ARMY MAP SERVICE"	1133.84
	X = 434,195.86 Y = 811,252.90			X = 476,685.41 Y = 812,326.49	
G-19 Panel USGS	A 12- by 12-foot square black tar-paper panel centered over station mark. Same horizontal position as station mark	1050.4	Q-19 Panel AMS	A black rock cross-target panel centered over station mark. (8- by 8-foot square center of target was filled in with white plastic paneling material by USGS in 1965, this white square also centered over station mark.) Same horizontal position as station mark	1133.6
J-19	T. 2 S., R. 3 E., near NW. corner of sec. 30. To reach from post office at Laveen, drive S. along black top rd. for 6.5 mi to rd. fork, thence take left fork and follow main rd. SE. for 4.7 mi to trail S., thence turn right and then left and follow trail paralleling main rd. for 0.25 mi to cross trail, thence turn right and follow trail SW. for 0.15 mi to trail intersection and station site; 44 ft SW. of trail intersection; 2 ft SE. of 4- by 4-in. witness post; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "TT J-19 1948"	1077.0	Q-19 USGS	About 50 ft S. of graded rd.; 3/8-in. rod projecting 0.3 ft at center of 6- by 6-foot square white panel. Rod Elev. 1134.24 Panel Elev. 1133.9	
	X = 444,893.16 Y = 811,864.32		Q-19 USGS	About 100 ft S. of graded rd.; 3/8-in. rod projecting 0.2 ft at center of 9- by 9-foot square white panel. Rod Elev. 1135.34 Panel Elev. 1135.1	
J-19 Panel USGS	A 12- by 12-foot square white panel centered over station mark. Same horizontal position as station mark	1076.6	Q3/4-19 USGS	About 100 ft E. of Maricopa Highway; 3/8-in. rod projecting 0.3 ft at center of 6- by 6-foot square white panel. Rod Elev. 1136.84 Panel Elev. 1136.5	
L-19	T. 2 S., R. 3 E., near SW. corner of sec. 21. To reach from Lone Butte Ranch, drive W. on S. side of canal for 1.2 mi to T-rd. N. and station site; 27 ft SE. of intersecting centerlines of T-rd. N.; 18 ft S. of centerline of E.-W. rd.; 3 ft SW. of fence corner; in top of concrete post set 1.0 ft below surface of ground; Corps of Engineers disk stamped "TR L-19 1960 ARMY MAP SERVICE"	1103.2	W. of R-19 USGS	Located about 0.25 mi W. of station R-19; G.L.O. section corner pipe projecting 0.2 ft; at center of 9- by 9-foot white panel. Pipe Elev. 1139.79 Panel Elev. 1139.6	
	X = 454,967.83 Y = 812,804.59		R-19	T. 2 S., R. 4 E., about 0.25 mi E. of NW. corner of sec. 29. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 5.0 mi to rd. junction W. and grove of trees on left; continue S. for 0.1 mi, then turn left around tip of trees and go E. across country for 0.5 mi to station site; 3 ft S. of witness post; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "BM R-19 1948"	1140.53
L-19 Panel USGS	A 12- by 12-foot square white panel centered over station mark. Same horizontal position as station mark	1104.2		X = 482,228.97 Y = 812,430.91	
M-19	T. 2 S., R. 3 E., about 0.15 mi E. of SW. corner of sec. 22. At Lone Butte Ranch; at rd. intersection; about 30 ft N. of E.-W. rd.; 6 ft N. of centerline of E.-W. ditch; 2.3 ft E. of NE. corner of concrete headwall; in top of concrete post projecting 0.1 ft; Corps of Engineers disk stamped "TT M-19 1962 ARMY MAP SERVICE"	1115.5	R-19 Panel USGS	Centered over station mark, 9- by 9-foot square white panel with two 3- by 12-foot wing panels for identification. Same horizontal position as station mark.	1140.2
	X = 461,046.10 Y = 812,543.04		R-19 USGS	Located about 0.25 mi E. of station R-19; G.L.O. 1/4 corner pipe projecting 0.3 ft, at center of 9- by 9-foot square white panel. No horizontal position Pipe Elev. 1140.54 Panel Elev. 1140.2	
M-19 Panel USGS	Located 151 ft NW. of station mark; center of 6- by 6-foot black square panel, with two white wing panels for identification. X = 460,920.50 Y = 812,626.57	1114.0	3/4-19 USGS	Located about 0.5 mi E. of station R-19; 3/8-in. rod projecting 0.2 ft at center of 6- by 6-foot square white panel. No horizontal position Rod Elev. 1144.03 Panel Elev. 1143.8	
N-19	T. 2 S., R. 3 E., near SW. corner of sec. 23. To reach from Lone Butte Ranch, drive E. for 1.0 mi to cattle guard and fence and field rd. N. and station site; 24 ft N. of N. edge of cattle guard; 15 ft N. of centerline of rd.; 1.5 ft NE. of fence corner post; in top of concrete post projecting 0.1 ft; Corps of Engineers disk stamped "TT N-19 1961 ARMY MAP SERVICE"	1116.63	W. of S-19 USGS	Located about 0.25 mi WSW. of station S-19; G.L.O. section corner pipe projecting 0.3 ft, at center of 9- by 9-foot square white panel. (3/8-in. reinforcing rod is wired to sec. cor. pipe; projects 0.5 ft)	1146.90
	X = 465,623.45 Y = 812,509.69			X = 465,620.7 Y = 812,479.9	1116.9
N-19 Panel AMS	30 ft S. of station mark, center of 9- by 12-foot cattle guard. X = 465,620.7 Y = 812,479.9	1116.9	3-19	T. 2 S., R. 4 E., about 0.25 mi ENE. of SW. corner of sec. 21. To reach from S. P. RR. crossing at Maricopa, drive N. on hwy. to Phoenix for 12.6 mi to track rd. crossing, thence turn right and go easterly for 1.5 mi, thence leave rd., turn left and go northerly across country 0.6 mi to large clearing, panel, and station site; in center of black and white panel; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "TR S-19 1948"	1147.21
P-19 USGS	NW. of T-ditch N.; 3/8-in. reinforcing rod between double stakes projecting 0.1 ft; 9- by 9-foot white panel centered over mark. No horizontal position Rod Elev. 1131.21 Panel Elev. 1131.1		S-19 Panel AMS	Center of black and white cross-target panel. Same horizontal position as station mark	1146.8

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
T-19	T. 2 S., R. 4 E., about 0.1 mi E. of SW. corner of sec. 22. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on hwy. for 5.65 mi to E.-W. trail, thence turn left and go E. for 1.2 mi to cross trail, thence continue straight ahead, E., for 1.05 mi to cross trail, thence turn left and go NE. for 0.75 mi to clear alkali flat and station site; 121 ft N. of large clump of brush; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "BM T-19 1948"	1155.7	Q-19 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft, in center of 6- by 6-foot square white panel; 40 ft E. of powerline. Rod Elev. 1135.97 Panel Elev. 1135.7	
	X = 492,465.70 Y = 812,681.07 Position by USGS in 1965.		Q $\frac{3}{4}$ -19 $\frac{1}{2}$	A G.L.O. 1/16 cor. iron pipe projecting 0.1 ft, in center of 6- by 6-foot square white panel. Pipe Elev. 1134.78 Panel Elev. 1134.7	
T-19 Panel USGS	Centered over station mark, 6- by 6-foot square white panel, with two 3- by 12-foot wing panels for identification. Same horizontal position as station mark	1155.3	Q $\frac{1}{2}$ -19 $\frac{1}{2}$	A G.L.O. 1/16 cor. iron pipe projecting 0.8 ft, in center of 6- by 6-foot square white panel. Pipe Elev. 1136.87 Panel Elev. 1136.1	
U-19	T. 2 S., R. 4 E., near SE. corner of sec. 22. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 5.65 mi to E.-W. trail, thence turn left and go E. for 1.2 mi to cross trail, continue E. for 1.05 mi to cross trail, continue E. for 1.45 mi to cross trail, thence turn left and go W. for 0.15 mi to trail forks and station site; in apex of trail fork; 7 ft E. of N.-S. trail; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "TT U-19 1948"	1164.80	Q3/4-19 $\frac{1}{2}$	A G.L.O. 1/16 cor. iron pipe projecting 0.3 ft, in center of 6- by 6-foot square white panel. Pipe Elev. 1137.37 Panel Elev. 1137.1	
	X = 497,013.39 Y = 812,502.16		R-19 $\frac{1}{2}$	A 3/8-in. rod projecting 0.4 ft; in center of 6- by 6-foot square white panel. Rod Elev. 1141.65 Panel Elev. 1141.3	
U-19 Panel USGS	Centered over station mark, 12- by 12-foot square white panel. Same horizontal position as station mark	1164.4	R $\frac{1}{2}$ -19 $\frac{1}{2}$	A 3/8-in. rod projecting 0.4 ft, in center of 6- by 6-foot square white panel. Rod Elev. 1142.66 Panel Elev. 1142.3	
W-19	T. 2 S., R. 4 E., near NE. corner of sec. 25. To reach from intersection of Cleveland Street and Arizona Avenue in Chandler, drive S. on State Highway 87 for 5.0 mi to crossroads, thence turn right and go W. for 3.0 mi to Price Road and station site; 11.6 ft W. of centerline of Price Road; 7.5 ft N. of extended centerline of rd. E.; in top of concrete post flush with ground; Corps of Engineers disk stamped "TT W-19 1948 RESET AMS 1956"	1183.67	R $\frac{3}{4}$ -19 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft, in center of 6- by 6-foot square white panel. Rod Elev. 1144.79 Panel Elev. 1144.5	
	X = 507,377.33 Y = 812,006.96		S-19 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft, in center of 6- by 6-foot square white panel. Rod Elev. 1148.04 Panel Elev. 1147.7	
W-19 Panel USGS	Centered over station mark, 12- by 12-foot square white panel. Same horizontal position and elevation as station mark.				
X-19	T. 2 S., R. 5 E., near NE. corner of sec. 30. To reach from intersection of Cleveland Street and Arizona Avenue in Chandler, drive S. on State Highway 87-93, for 5.0 mi to cross road, thence turn right and go W. for 2.0 mi to cross road and station site; 9 ft W. of centerline of N.-S. rd.; 13 ft S. of E.-W. rd.; 2.5 ft NW. of N. end of concrete culvert; in top of concrete post projecting 0.1 ft; Corps of Engineers disk stamped "TT X-19 1948 RESET AMS 1956" (Not visited by USGS in 1965)	1201.4			
	X = 512,628.04 Y = 812,095.82 NOTE: Elevation appears to be ten ft high according to elevation published on map.				
PP X-19 AMS	On W. side of N.-S. rd.; centerline of E.-W. ditch at headwall. X = 512,630.50 Y = 812,089.35	1201.4	P-19 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft, in center of 9- by 9-foot square white panel. Rod Elev. 1126.68 Panel Elev. 1126.4	
Y-19	T. 2 S., R. 5 E., near SW. corner of sec. 21. To reach from intersection of Cleveland Street and Arizona Avenue in Chandler, drive S. on State Highway 87-93 for 5.0 mi to crossroads, thence turn right and go W. for 1.0 mi to cross road and station site; 25 ft N. of centerline of E.-W. rd.; 15 ft E. of centerline of N.-S. rd.; cemented in top of S. end of concrete headwall, 1 ft higher than rd.; Corps of Engineers disk stamped "TT Y-19 1948"	1201.1	P $\frac{1}{2}$ -19 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft, in center of 9- by 9-foot square white panel. Rod Elev. 1129.06 Panel Elev. 1128.8	
	X = 518,046.37 Y = 812,223.84		Q-19 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft, in center of 9- by 9-foot square white panel, 100 ft E. of powerline. Rod Elev. 1135.24 Panel Elev. 1134.9	
Y-19 Panel USGS	Located 125 ft SW. of station mark, center of 12- by 12-foot square black panel. X = 517,949.76 Y = 812,144.21	1200.5	Q $\frac{1}{4}$ -19 $\frac{1}{2}$	A G.L.O. 1/16 cor. iron pipe projecting 0.4 ft, in center of 6- by 6-foot square white panel. Pipe Elev. 1138.53 Panel Elev. 1138.1	
			Q $\frac{3}{4}$ -19 $\frac{1}{2}$	At center of sec. 30; G.L.O. C $\frac{1}{4}$ cor. iron pipe projecting 0.3 ft in center of 9- by 9-foot square white panel; 190 ft W. of Maricopa Highway opposite pole No. 406. Pipe Elev. 1137.80 Panel Elev. 1137.5	

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
Q3/4-19 1/2	A G.L.O. 1/16 cor. iron pipe projecting 1.1 ft in center of 6- by 6-foot square white panel.	Pipe Elev. 1139.66 Panel Elev. 1138.6	R3/4-19 3/4	In lake bed; 3/8-in. rod projecting 0.3 ft, in center of 6- by 6-foot square white panel.	Rod Elev. 1148.04 Panel Elev. 1147.7
R-19 1/2	270 ft N. of dirt rd.; G.L.O. 1/4 cor. iron pipe projecting 0.4 ft, in center of 9- by 9-foot square white panel.	Pipe Elev. 1141.01 Panel Elev. 1140.6	3-19 3/4	A 3/8-in. rod projecting 0.3 ft, in center of 6- by 6-foot square white panel.	Rod Elev. 1148.65 Panel Elev. 1148.4
TIER 20					
R 1/2-19 1/2	A 3/8-in. rod projecting 0.3 ft, in center of 6- by 6-foot square white panel.	Rod Elev. 1144.62 Panel Elev. 1144.3	K-20	T. 2 S., R. 3 E., near NW. corner of sec. 32. To reach from post office at Laveen, proceed S. along black top rd. for 6.5 mi to rd. fork, thence take left fork and go SE. along main rd. for 6.0 mi to right turn in rd., thence turn right and follow main rd. S. for 0.55 mi to left turn in rd. and station site. Located 65 ft SW. of centerline of main rd. and about 250 ft W. of drain crossing; in top of concrete post projecting 0.2 ft; Corps of Engineers disk stamped "TT K-20 1948"	X = 450,088.02 Y = 807,363.44 1082.45
R 1/2-19 1/2	At center of sec. 29; 33 ft S. of rd.; G.L.O. C 1/4 cor. iron pipe projecting 0.4 ft, in center of 9- by 9-foot square white panel.	Pipe Elev. 1148.47 Panel Elev. 1148.1	P K-20 MS	260 ft SE. of station mark; centerline of NE.-SW. drain at centerline of NW.-SE. trail.	X = 450,223.68 Y = 807,141.80 1079.9
R3/4-19 1/2	200 ft S. and 425 ft E. of track rd. intersection and AMS triangulation station CONFER; G.L.O. 1/16 cor. iron pipe projecting 1.3 ft; in center of 6- by 6-foot square white panel.	Pipe Elev. 1148.19 Panel Elev. 1146.9	-20 C&GS BM (-273)	T. 2 S., R. 3 E., near SE. corner of sec. 29. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 6.2 mi to black top rd. W., thence turn right and go W. for 4.5 mi to station on right. Located 80 ft N. of centerline of rd.; in top of concrete post projecting 0.3 ft; USC&GS standard disk stamped "R 273 1948"	X = 454,657.01 Y = 807,354.72 1094.33
S-19 1/2	320 ft S. of track rd.; 3/8-in. rod projecting 0.3 ft, in center of 9- by 9-foot square white panel.	Rod Elev. 1145.86 Panel Elev. 1145.6	-20 panel USGS	Centered over station mark, 6- by 6-foot square white panel.	1094.0
TIER 19 3/4 (USGS Leveling, 1965)					
Q-19 3/4	66 ft SW. of powerline crossing; 1/16 cor. set by powerline survey; 3/4-in. reinforcing rod projecting 0.1 ft, in center of 6- by 6-foot square white panel.	Rod Elev. 1134.68 Panel Elev. 1134.6	M-20	T. 2 S., R. 3 E., near SW. corner of sec. 27. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 6.2 mi to black top rd. W., thence turn right and go W. for 3.4 mi to trail N. and station site. Located 40 ft N. of centerline of main rd.; in triangle formed by trails; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT M-20 1948"	X = 460,890.30 Y = 807,311.42 1103.80
Q 1/2-19 3/4	A 3/8-in. rod projecting 0.3 ft, in center of 6- by 6-foot square white panel.	Rod Elev. 1136.20 Panel Elev. 1135.9	N-20 panel USGS	Centered over station mark, 6- by 6-foot square white panel.	1103.5
Q 1/2-19 3/4	36 ft E. of Maricopa Highway; 25 ft W. of G. L.O. 1/16 cor. pipe; 7 ft N. of pole No. 398; 3/8-in. rod projecting 0.3 ft, in center of 6- by 6-foot square white panel.	Rod Elev. 1137.85 Panel Elev. 1137.6	N-20	Located about 700 ft ESE. of USC&GS BM "S 273 1948"; about 300 ft SE. of rd. junction S.; about 150 ft S. of black top rd.; in top of concrete post projecting 0.2 ft; Corps of Engineers disk stamped "N 20 1948"	A USGS 6- by 6-foot white panel centered over station.
Q3/4-19 3/4	A 3/8-in. rod projecting 0.3 ft, in center of 6- by 6-foot square white panel.	Rod Elev. 1142.58 Panel Elev. 1142.3	N-20	No horizontal position	Station mark Elev. 1114.80 Panel Elev. 1114.6
R-19 3/4	A G.L.O. 1/16 cor. iron pipe projecting 1.1 ft, in center of 6- by 6-foot square white panel.	Pipe Elev. 1142.53 Panel Elev. 1141.4	S-273 (C&GS BM)	T. 2 S., R. 3 E., near SE. corner of sec. 27. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 6.2 mi to black top rd. W., thence turn right and go W. for 2.5 mi to reverse rd. fork and station site on right. Station mark is 78 ft N. of centerline of rd.; about 700 ft WNW. of AMS station "N-20"; in top of concrete post projecting 0.4 ft; USC&GS standard disk stamped "S 273 1948"	X = 464,622.00 Y = 807,339.24 1116.08
R 1/2-19 3/4	About 185 ft SE. of 1/16 cor.; 3/8-in. rod projecting 0.3 ft, in center of 6- by 6-foot square white panel.	Rod Elev. 1143.36 Panel Elev. 1143.1	S-273 Panel USGS	Centered over station mark, 6- by 6-foot square white panel.	1115.7
R 1/2-19 3/4	A G.L.O. 1/16 cor. iron pipe projecting 0.3 ft, in center of 6- by 6-foot square white panel.	Rod Elev. 1146.56 Panel Elev. 1146.3			

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
P-20	T. 2 S., R. 3 E., near NE. corner of sec. 35. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 6.2 mi to black top rd. W., thence turn right and go 1.5 mi to station site on left; about 140 ft S. of rd. in center of black and white painted panel; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "TT P-20 1948 RESET AMS 1955"		R3/4-20 USGS	60 ft S. of surveyed rd. R.O.W.; 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1147.85 Panel Elev. 1147.6
	X = 470,638.32 Y = 807,118.37	1123.34			
P-20 Panel AMS	Centered over station mark, black and white painted cross-target panel.		3-20	T. 2 S., R. 4 E., about 0.1 mi E. of SW. corner of sec. 28. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 6.15 mi to powerline crossing, thence turn left on powerline rd. for about 300 ft, thence turn left again and go E. on surveyed rd. route for 1.5 mi to station site on N. side of E.-W. rd.; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "BM 3-20 1948"	
	Same horizontal position as station mark	1122.8		X = 487,096.93 Y = 807,264.91	1152.07
P1-20 USGS	90 ft S. of black top rd., 3/8-in. rod projecting 0.3 ft, in center of 9- by 9-foot square white panel.	Rod Elev. 1128.55 Panel Elev. 1128.2		Horizontal position by USGS in 1965.	
W. of Q-20 USGS	About 50 ft N. of black top rd; 75 ft W. of powerline; 3/8-in. rod projecting 0.3 ft, in center of 9- by 9-foot square white panel.	Rod Elev. 1135.47 Panel Elev. 1135.2	W. of 8-20 Panel USGS	Located about 580 ft WSW. of station 3-20; 80 ft S. of sec. cor. pipe in surveyed rd. R.O.W.; center of 9- by 9-foot square white panel, with two 3- by 12-foot wing panels for identification.	
				X = 486,525.05 Y = 807,165.35	1151.3
Q-20	T. 2 S., R. 4 E., near NW. corner of sec. 31. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 6.2 mi to black top rd. W., thence turn right and go 0.15 mi to lone tree on left and station site. Located 78 ft S. of rd.; 7 ft E. of E. edge of mesquite tree; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "BM Q-20 1948"		T-20	T. 2 S., R. 4 E., near SW. corner of sec. 27. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 6.15 mi to powerline crossing, thence turn left on powerline rd. for about 300 ft, thence turn left again and go E. on surveyed rd. route for 2.5 mi to cross trail, thence turn left and go N. about 0.1 mi to station site; 25 ft W. of trail; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "BM T-20 1948"	
	X = 477,391.85 Y = 807,184.68	1136.90		X = 492,216.59 Y = 807,758.81	1155.8
	Position and elevation by USGS in 1965.			Horizontal position by USGS in 1965.	
Q-20 Panel USGS	Centered over station mark, 6- by 6-foot square white panel.		T-20 Panel USGS	Centered over station mark; 6- by 6-foot square white panel, with two 3- by 12-foot wing panels for identification.	
	Same horizontal position as station mark	1136.5		Same horizontal position as station mark	1155.5
Q1-20 USGS	Location 50 ft W. of power pole No. 21-6; 50 ft S. of G.L.O. 1/4 cor. pipe; 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel.	Rod Elev. 1138.71 Panel Elev. 1138.4	U-20	T. 2 S., R. 4 E., near NW. corner of sec. 35. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 5.65 mi to E.-W. trail, thence turn left and go E. for 1.2 mi to cross trails, thence continue straight ahead for 1.05 mi to cross trail, thence continue E. for 1.45 mi to cross trail, thence turn right and go S. for 1.05 mi to group of buck brush and station site; 38 ft W. of NW.-SE. trail; in top of concrete post projecting 0.8 ft; Corps of Engineers disk stamped "BM U-20 1948"	
				X = 498,407.07 Y = 806,546.66	1165.32
Q3/4-20 USGS	A 3/8-in. rod projecting 0.3 ft, in center of 6- by 6-foot square white panel.	Rod Elev. 1139.95 Panel Elev. 1139.6	U-20 Panel USGS	Centered over station mark; 6- by 6-foot square white panel.	
				Same horizontal position as station mark	1164.5
NE OF R-20 USGS	In center of surveyed rd. R.O.W.; G.L.O. section corner pipe (rusted off).	X = 481,252.75 Y = 807,246.20 (ground) 1141.6	Y-20	T. 2 S., R. 5 E., near NE. corner of sec. 32. To reach from intersection of Cleveland Street and Arizona Avenue, in Chandler, drive S. on State Highway 87 for 6.0 mi to cross road, thence turn right and go 1.0 mi to cross road and station site; 63 ft W. of centerline of N.-S. rd.; 21 ft S. of centerline of E.-W. rd.; in top of concrete abutment level with rd.; Corps of Engineers disk stamped "TT Y-20 1948" (Not visited by USGS in 1965)	
				X = 517,941.74 Y = 806,901.94	1201.7
NE OF R-20 Panel USGS	About 80 ft N. and 10 ft E. of section corner; 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel, with two 3- by 12-foot wing panels for identification.	Rod Elev. 1142.23 Panel Elev. 1141.9	PP Y-20 AMS	At S. edge of E.-W. rd.; centerline of N.-S. ditch at headwall.	
				X = 517,978.86 Y = 806,912.27	1201.9
R-20	T. 2 S., R. 4 E.; about 0.1 mi SW. of NE. corner of sec. 31. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 6.15 mi to powerline crossing, thence turn left and follow powerline rd. SE. for 0.55 mi to point midway between power poles No. 221 and No. 223, thence turn left and go N. across country to two large mesquite trees and station site; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "BM R-20 1948"				
	No horizontal position Not paneled	1142.09			
R1-20 USGS	80 ft S. of surveyed rd. R.O.W.; 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1144.27 Panel Elev. 1144.0			Pipe Elev. 1136.86 Panel Elev. 1135.7
R1-20 USGS	40 ft S. of surveyed rd. R.O.W.; 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel.	Rod Elev. 1146.24 Panel Elev. 1145.9	Q1-20†	A 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot white panel.	Rod Elev. 1139.28 Panel Elev. 1139.0

TIER 20†
(USGS Leveling, 1965)

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
Q $\frac{1}{2}$ -20 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1138.82 Panel Elev. 1138.5	R $\frac{1}{2}$ -20 $\frac{1}{2}$	About 320 ft S. of powerline; 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1143.39 Panel Elev. 1143.1
Q3/4-20 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1140.98 Panel Elev. 1140.7	R $\frac{1}{2}$ -20 $\frac{1}{2}$	About 350 ft N. of powerline pole No. 22-8; in center of sec. 32; G.L.O. 61/4 cor. pipe projecting 1.0 ft; in center of 9- by 9-foot square white panel.	Pipe Elev. 1147.18 Panel Elev. 1146.2
R-20 $\frac{1}{2}$	130 ft N. of power pole 22-3; 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1142.04 Panel Elev. 1141.7	R3/4-20 $\frac{1}{2}$	27 ft E. of 1/16 cor. iron pipe; 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1147.93 Panel Elev. 1147.6
R $\frac{1}{2}$ -20 $\frac{1}{2}$	9 ft S. of 1/16 cor. iron pipe; 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1144.59 Panel Elev. 1144.3	S-20 $\frac{1}{2}$	16 ft N. of dim rd.; G.L.O. 1/4 cor. iron pipe projecting 1.2 ft; in center of 9- by 9-foot square white panel.	Pipe Elev. 1151.09 Panel Elev. 1149.9
R $\frac{1}{2}$ -20 $\frac{1}{2}$	240 ft SE. of 1/16 cor. iron pipe, 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1147.56 Panel Elev. 1147.3	TIER 20 3/4 (USGS Leveling, 1965)		
R3/4-20 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1148.67 Panel Elev. 1148.4	Q-20 3/4	On powerline right-of-way; 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1131.07 Panel Elev. 1130.8
S-20 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1149.06 Panel Elev. 1148.8	Q $\frac{1}{2}$ -20 3/4	About 300 ft E. of Maricopa Highway; 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1133.41 Panel Elev. 1133.1
TIER 20 $\frac{1}{2}$ (USGS Leveling, 1965)			Q $\frac{1}{2}$ -20 3/4	5 ft W. of 1/16 cor. iron pipe (rusted off); 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1136.30 Panel Elev. 1136.0
P-20 $\frac{1}{2}$	A G.L.O. 1/4 cor. iron pipe projecting 0.7 ft; in center of 9- by 9-foot square white panel.	Pipe Elev. 1122.77 Panel Elev. 1122.1	Q3/4-20 3/4	A 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1139.67 Panel Elev. 1139.4
P $\frac{1}{2}$ -20 $\frac{1}{2}$	At center of sec. 36; G.L.O. 0 $\frac{1}{2}$ cor. iron pipe projecting 0.7 ft; in center of 9- by 9-foot square white panel.	Pipe Elev. 1127.46 Panel Elev. 1126.8	R-20 3/4	A 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1141.67 Panel Elev. 1141.4
Q-20 $\frac{1}{2}$	About 65 ft W. of powerline; 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel.	Rod Elev. 1130.96 Panel Elev. 1130.7	R $\frac{1}{2}$ -20 3/4	54 ft E. of rd.; 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1143.17 Panel Elev. 1142.9
Q $\frac{1}{2}$ -20 $\frac{1}{2}$	About 100 ft E. of Maricopa Highway; 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1139.51 Panel Elev. 1139.2	R $\frac{1}{2}$ -20 3/4	A 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1144.75 Panel Elev. 1144.5
Q $\frac{1}{2}$ -20 $\frac{1}{2}$	At center of sec. 31; G.L.O. 0 $\frac{1}{2}$ cor. iron pipe projecting 0.3 ft; in center of 9- by 9-foot square white panel.	Pipe Elev. 1139.46 Panel Elev. 1139.2	R3/4-20 3/4	About 175 ft W. of power pole No. 23-2; G.L.O. 1/16 cor. iron pipe projecting 0.5 ft; in center of 6- by 6-foot square white panel.	Pipe Elev. 1147.55 Panel Elev. 1147.1
Q3/4-20 $\frac{1}{2}$	7 ft SW. of 1/16 cor. (rusted off) iron pipe; 3/8-in. rod projecting 0.5 ft; in center of 6- by 6-foot square white panel.	Rod Elev. 1142.25 Panel Elev. 1141.8	S-20 3/4	About 500 ft N. of power pole No. 23-4; G.L.O. 1/16 cor. iron pipe projecting 0.5 ft; in center of 6- by 6-foot square white panel.	Pipe Elev. 1150.51 Panel Elev. 1150.0
R-20 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel.	Rod Elev. 1142.69 Panel Elev. 1142.4			

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
TIER 21					
G-21	T. 2 S., R. 2 E., near SW. corner of sec. 35. To reach from post office at Laveen, drive S. on black top rd. for 6.05 mi to end of pavement, thence continue on graveled rd. for 0.3 mi to rd. forks, thence take right fork and go SSE. for 3.15 mi to bridge over Santa Cruz Wash, thence continue for 0.05 mi to rd. fork, thence take left fork for 0.15 mi to trail E. at wash, thence turn left on trail and follow about 200 ft to Santa Cruz Wash, thence continue SE. on trail for another 150 ft to trail fork at top of bank, thence turn right and go 0.7 mi SE. to Indian cemetery, thence continue SE. on main trail for 0.9 mi to pipeline, thence stay left of row of trees and continue SE. 0.85 mi to isolated clump of trees on right, thence turn left off trail and go ENE. across country for 0.4 mi to panel and station; in center of black asphalt panel; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "TT G-21 1948" (Not visited by USGS in 1965)		P-21	T. 3 S., R. 3 E., near NW. corner of sec. 1. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 11.05 mi to Pinal-Maricopa County line, thence turn left on track rd. and go 0.1 mi to fork, thence take left fork and go 0.2 mi to fork, thence take left fork and go 0.2 mi to cross trail, thence continue W. on track rd. for 0.5 mi to large mesquite tree on S. side of trail, thence turn left and follow dim tracks SW. for 0.25 mi to isolated bush and station site; at NW. edge of isolated bush; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "BM P-21 1948"	
	X = 434,290.82 Y = 802,155.73	1060.8		X = 471,060.66 Y = 801,706.05	1125.53
G-21 Panel AMS	The center of black asphalt cross-target panel.		P-21 Panel USGS	22 ft SW. of station P-21; center of 9- by 9-foot square white panel, with two 3- by 12-foot wing panels for identification.	
	Same horizontal position as station mark	1060.4		X = 471,053.18 Y = 801,685.05	1124.4
J-21	T. 3 S., R. 3 E., about 0.2 mi E. of NW. corner of sec. 6. To reach from St. Johns Indian School, drive S. on 51st Avenue for 1.3 mi to rd. fork, thence take left fork and go 2.4 mi to powerline crossing, thence turn right on powerline rd. and go SE. for 4.0 mi to cross trail, thence turn left and go about 400 ft to panel and station. In center of black and white panel; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "J-21 1948" (Not visited by USGS in 1965)		P-21 Panel USGS	A 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel.	
	X = 445,426.52 Y = 801,920.24	1082.8		No horizontal position established. Rod Elev. 1128.33 Panel Elev. 1128.0	
J-21 Panel AMS	The center of black and white cross-target panel.		Q-21	T. 3 S., R. 4 E., about 650 ft E. of NW. corner of sec. 6. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 7.3 mi to Maricopa-Pinal County line rd. and station site; 36 ft WNW. of centerline of hwy.; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "TT Q-21 1962 ARMY MAP SERVICE"	
	Same horizontal position as station mark	1082.5		X = 476,668.00 Y = 801,966.10	1134.92
L-21	T. 2 S., R. 3 E., near SW. corner of sec. 33. To reach from post office in Laveen, go S. on black top rd. for 6.05 mi to end of pavement, thence continue on graveled rd. 0.3 mi to rd. fork, thence take left fork and go SE. on graded rd. for 6.15 mi to where rd. makes bend to E. (at station K-20), thence turn right on rd. SE. through heavy brush and go 1.35 mi to T-trail SW. at lone tree, thence turn right and go S. about 400 ft to panel and station; 36 ft E. of trail; in center of black and white panel; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "L-21 1948" (Not visited by USGS in 1965)		Q-21 Panel USGS	Centered over station mark; 6- by 6-foot square black panel in center of 12- by 12-foot square white panel.	
	X = 455,217.32 Y = 802,332.23	1097.5		Same horizontal position as station mark	1134.4
L-21 Panel AMS	Center of black and white cross-target panel.		Q1-21 USGS	54 ft N. of rd.; 45 ft W. of drain; 3/8-in. rod projecting 0.3 ft; in center of 6- by 6-foot square white panel.	
	Same horizontal position as station mark	1097.2		No horizontal position established. Rod Elev. 1135.69 Panel Elev. 1135.4	
M-21	T. 3 S., R. 3 E., near NW. corner of sec. 3. To reach from post office at Laveen, drive S. on black top rd. for 6.4 mi to rd. fork, thence take left fork and follow main rd. for 6.15 mi to bend to E., thence turn right on track rd. and go SE. for 1.75 mi to heavy brush area at drain, thence turn left and follow dim trail on N. side of drain for 0.6 mi to clearing and station site; in center of small sand clearing; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "M-21 1948"		Q1-21 USGS	A G.L.O. 1/4 cor. iron pipe projecting 0.4 ft; in center of 9- by 9-foot square white panel.	
	X = 460,304.91 Y = 801,420.42	1102.7		No horizontal position established. Pipe Elev. 1137.11 Panel Elev. 1136.7	
M-21 Panel USGS	Centered over station mark; 6- by 6-foot square black panel.		Q3/4-21 USGS	A G.L.O. 1/16 cor. iron pipe projecting 1.0 ft; in center of 6- by 6-foot square white panel.	
	Same horizontal position as station mark	1102.4		No horizontal position established. Pipe Elev. 1139.63 Panel Elev. 1138.6	
N-21	T. 2 S., R. 3 E., near SW. corner of sec. 35. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 10.0 mi to crossroads, thence turn left and go 1.6 mi to where rd. bends N., thence continue N. on rd. for 1.3 mi to panel and station on right; about 180 ft E. of rd.; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "TR N-21 1948"		R-21	T. 2 S., R. 4 E., about 0.1 mi N. of SW. corner of sec. 32. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 6.15 mi to powerline crossing, thence turn left and follow powerline rd. SE. for 0.75 mi to cross road, thence turn right and go S. along trail for 0.4 mi to trail fork, thence take left fork SE. for 0.1 mi to trail fork, thence take left fork for 0.05 mi to station site on left; 18 ft ENE. of trail; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "BM R-21 1948"	
	X = 465,668.11 Y = 802,289.50	1115.65		X = 481,164.51 Y = 802,479.79	1139.78
N-21 Panel AMS	Center of black asphalt cross-target panel.			Position by USGS in 1965.	
	Same horizontal position as station mark	1115.2	R-21 Panel USGS	Centered over station mark; 9- by 9-foot square white panel.	
				Same horizontal position as station mark	1139.4
			S. of R-21 Panel USGS	About 0.1 mi S. of station R-21; G.L.O. sec. cor. iron pipe projecting 0.4 ft; in center of 9- by 9-foot square white panel, with two 3- by 12-foot wing panels S. and E.	
				No horizontal position established. Pipe Elev. 1140.53 Panel Elev. 1140.1	
			R1-21 USGS	A 3/8-in. rod projecting 0.4 ft; in center of 6- by 6-foot square white panel.	
				No horizontal position established. Rod Elev. 1141.98 Panel Elev. 1141.6	

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
R $\frac{1}{2}$ -21 USGS	18 ft W. of G.L.O. 1/4 cor.; 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel. No horizontal position established. Rod Elev. 1144.48 Panel Elev. 1144.2		Y-21	T. 2 S., R. 5 E., near SE. corner of sec. 32. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), go S. on Highway 93 for 0.1 mi, thence turn right and go W. for 1.0 mi to cross road and station site; 65 ft NW. of intersection; 11 ft N. of centerline of E.-W. ditch; 10 ft W. of centerline of N.-S. ditch; 2 ft S. of corner power pole; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT Y-21 RESET AMS 1953" X = 517,992.25 Y = 801,681.59 1201.48	
R3/4-21 USGS	48 ft W. of dim rd.; G.L.O. 1/16 cor. iron pipe projecting 1.5 ft; in center of 6- by 6-foot square white panel. Pipe Elev. 1147.59 Panel Elev. 1146.1		Y-21 Panel USGS	About 28 ft W. of station Y-21; center of 12- by 12-foot square white panel. X = 517,964.58 Y = 801,683.24 1200.4 TIER 21 $\frac{1}{2}$ (USGS Leveling, 1965)	
S-21	T. 3 S., R. 4 E., near NW. corner of sec. 4. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 6.15 mi to powerline crossing, thence turn left and follow powerline rd. SE. for 1.9 mi, thence turn right and go SW. across country for 0.1 mi to panel and station. In center of black and white panel; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT S-21 1948" X = 486,528.35 Y = 801,964.77 1148.37		P-21 $\frac{1}{2}$	A 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel. Rod Elev. 1126.30 Panel Elev. 1126.0	
S-21 Panel AMS	The center of black and white cross-target panel. Same horizontal position as station mark. 1148.1		P $\frac{1}{2}$ -21 $\frac{1}{2}$	At center of sec. 1; 12 ft N. of rusted off G.L.O. iron pipe; 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel. Rod Elev. 1127.72 Panel Elev. 1127.4	
T-21	T. 3 S., R. 4 E., about 0.15 mi W. of NE. corner of sec. 4. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 6.15 mi to powerline crossing, thence turn left and follow powerline rd. SE. for 3.0 mi to N.-S. trail, thence turn left and go N. for 0.3 mi to rd. fork in alkali flat, thence take left fork and go NW. for 0.25 mi to station site on left; in small alkali flat; 21 ft SW. of trail; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "BM T-21 1948" X = 491,033.66 Y = 802,172.79 1157.70 Horizontal position by USGS in 1965.		Q-21 $\frac{1}{2}$	80 ft W. of Maricopa Highway; 40 ft E. of telephone pole No. 6; 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel. Rod Elev. 1131.74 Panel Elev. 1131.4	
T-21 Panel USGS	Centered over station mark; 6- by 6-foot square white panel, with three 3- by 12-foot wings. Same horizontal position as station mark 1157.3		Q $\frac{1}{2}$ -21 $\frac{1}{2}$	At center of sec. 6; G.L.O. 1/4 cor. iron pipe projecting 0.4 ft; in center of 9- by 9-foot square white panel. Pipe Elev. 1140.01 Panel Elev. 1139.6	
U-21	T. 3 S., R. 4 E., near NW. corner of sec. 2. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), drive S. on Highway 93 for 0.8 mi to T-rd. W., thence turn right and go W. for 3.0 mi, thence jog S. for 0.2 mi, thence continue W. for 2.0 mi to powerline crossing, thence turn right along powerline for 0.3 mi to crossroads, thence turn right and go NE. for 0.8 mi to panel and station; 40 ft NW. of trail; in center of panel; in top of concrete post; Corps of Engineers disk stamped "TR U-21 1948" (Not visited by USGS in 1965) X = 498,299.80 Y = 800,710.83 1167.81		R-21 $\frac{1}{2}$	A G.L.O. 1/4 cor. iron pipe projecting 0.7 ft; in center of 9- by 9-foot square white panel. Pipe Elev. 1143.73 Panel Elev. 1143.0	
U-21 Panel AMS	Center of black and white cross-target panel. Horizontal position and elevation same as station mark.		R $\frac{1}{2}$ -21 $\frac{1}{2}$	At N. edge of dry lake; 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel. Rod Elev. 1146.16 Panel Elev. 1145.9	
W-21	T. 2 S., R. 4 E., near SE. corner of sec. 36. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), go S. on Highway 93 for 0.1 mi to cross road, turn right and go W. for 3.0 mi to N.-S. rd. and station site; NW. of T-rd. E.; 21 ft W. of centerline of N.-S. rd.; at E. edge of N.-S. ditch; at S. edge of ditch E.; in top of concrete abutment; Corps of Engineers disk stamped "TT W-21 1948" X = 507,403.03 Y = 801,513.98 1183.15		S-21 $\frac{1}{2}$	A G.L.O. 1/4 cor. iron pipe projecting 0.6 ft; in center of 9- by 9-foot square white panel. Pipe Elev. 1153.28 Panel Elev. 1152.7 TIER 22	
W-21 Panel USGS	Located 57 ft SW. of station W-21; center of 12- by 12-foot square white panel. X = 507,378.73 Y = 801,462.11 1181.8		L-22	T. 3 S., R. 3 E., near NW. corner of sec. 9. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 7.0 mi to cross road just N. of Pima Butte, thence turn left and go W. for 1.05 mi to rd. fork, thence take right fork and go 2.95 mi to trail leading N., thence turn right and follow faint trail N. for 0.7 mi to NW. end of dyke, thence go N. across country to S. bank of Gila River and station site; on S. edge of thick salt cedar; 125 ft E. of lone tree; 54 ft W. of another lone tree; in top of concrete post projecting 0.1 ft; Corps of Engineers disk stamped "L-22 1948" X = 455,085.76 Y = 796,572.12 1087.4 Horizontal position by USGS in 1965.	
X-21	T. 2 S., R. 5 E., near SE. corner of sec. 31. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), go S. on Highway 93 for 0.1 mi, thence turn right and go 2.0 mi W. to T-rd. N. and station site; 30 ft N. of centerline of E.-W. rd.; 11 ft W. of centerline of rd. N.; 3 ft NW. of fence corner; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT X-21 RESET AMS 1952" X = 512,714.95 Y = 801,581.34 1193.54		L-22 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark. 1087.3	
PP X-21 AMS	On E. side of N.-S. rd.; centerline of ditch E. at point of disappearance. X = 512,734.57 Y = 801,592.97 1192.7				

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
M-22	T. 3 S., R. 3 E., near SW. corner of sec. 3. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 9.9 mi to cross road, thence turn left and go 1.75 mi to where rd. begins to bend N., thence leave main rd. and go W. 0.1 mi to cross road, thence turn left for 0.1 mi to another cross road, thence turn right and go W. for 0.9 mi to fork, thence take left fork and go 350 ft to cross road, thence turn left and go S. for 300 ft to crossroads and station site; on W. edge of trail; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "M-22 1948"		R-22	T. 3 S., R. 4 E., near SW. corner of sec. 5. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 9.9 mi to cross road, thence turn right and go E. for 1.1 mi to rd. S. and station site; 47 ft N. of centerline of main rd.; 20 ft E. of trail; at S. edge of mesquite tree; in top of concrete post projecting 0.6 ft; Corps of Engineers disk stamped "RM R-22 1948"	
	X = 460,544.52 Y = 797,295.42 Horizontal position by USGS in 1965.	1103.2		X = 481,267.32 Y = 796,732.14 Horizontal position by USGS in 1965.	1143.17
M-22 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark	1102.8	R-22 Panel USGS	18 ft S. of station mark; center of 9- by 9-foot square white panel. (There are wing panels NE. and NW.) X = 481,268.92 Y = 796,714.00	1142.3
N-22	T. 3 S., R. 3 E., near SW. corner of sec. 2. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 9.9 mi to cross road, thence turn left and go 1.8 mi to curve to N. and station site; at N. end of curve; 42 ft WSW. of centerline of main rd.; 31 ft E. of centerline of N.-S. secondary rd.; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT N-22 1948"		R ₁ -22 USGS	N. of rd.; 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel. No horizontal position established. Rod Elev. 1147.82 Panel Elev. 1147.5	
	X = 465,520.64 Y = 797,261.01	1120.64	S-22	T. 3 S., R. 4 E., near SW. corner of sec. 4. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 9.9 mi to cross road, thence turn right and go E. for 2.2 mi to trail N. and station site; 35 ft N. of centerline of main rd.; 7 ft E. of trail; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "TT S-22 1948"	
N-22 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark	1120.3		X = 486,973.21 Y = 796,721.89	1154.42
V-273 C&GS BM	T. 3 S., R. 3 E., about 0.25 mi W. of SE. corner of sec. 2. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 9.9 mi to cross road, thence turn left and go W. for 1.1 mi to station site on right; about 0.35 mi W. of station P-22; 67 ft N. of centerline of rd.; in top of concrete post projecting 0.3 ft; USC&GS standard disk stamped "V 273 1948"		S-22 Panel USGS	Centered over station mark; 9- by 9-foot square white panel, with two 3- by 12-foot wing panels W. and N. Same horizontal position as station mark	1154.0
	X = 469,455.08 Y = 796,750.49 Horizontal position triangulated by AMS in 1962.	1125.39	T-22	T. 3 S., R. 4 E., near SW. corner of sec. 3. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 9.9 mi to cross road, thence turn right and go E. for 3.1 mi to dim N.-S. trail and station; 33 ft N. of centerline of main rd.; 6 ft E. of trail; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "BM T-22 1948"	
V-273 Panel USGS	Centered over station mark; small white cross-target; each wing panel of cross-target is 3- by 12-foot, oriented in approximately cardinal directions. Same horizontal position as station mark	1125.1		X = 491,799.48 Y = 796,720.05 Horizontal position by USGS in 1965.	1161.96
P-22	T. 3 S., R. 3 E., near SW. corner of sec. 1. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 9.9 mi to cross road, thence turn left and go W. for 0.8 mi to panel and station right; about 110 ft N. of rd.; in center of permanent panel; in top of concrete post projecting 0.6 ft; Corps of Engineers disk stamped "TT P-22 1948"		T-22 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark	1161.6
	X = 471,156.80 Y = 796,786.91	1128.82	U-22	T. 3 S., R. 4 E., near SE. corner of sec. 3. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), drive S. on Highway 93 for 0.8 mi to cross road, thence turn right and go 3.0 mi to N.-S. rd., thence turn left for 0.2 mi, thence turn right and continue W. for 2.0 mi to powerline crossing and station site; 51 ft NE. of T-rd. S.; 36 ft N. of centerline of main E.-W. rd.; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "TT U-22 1948"	
P-22 Panel AMS	Centered over station mark; black and white painted cross-target panel. Same horizontal position as station mark	1128.2		X = 497,115.51 Y = 796,710.88	1171.78
P ₁ -22 USGS	57 ft N. of centerline of rd.; 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel. No horizontal position established. Rod Elev. 1133.03 Panel Elev. 1132.7		U-22 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark	1171.3
			PP U-22 AMS	Centerline of E.-W. rd. at intersecting centerline of secondary rd. S. (T-rd. S.) X = 497,079.5 Y = 796,675.4	1170.7
Q-22	T. 3 S., R. 3 E., about 0.15 mi W. of NE. corner of sec. 12. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 9.9 mi to crossroads and station; 37.5 ft E. of centerline of hwy.; 22.5 ft S. of centerline of E.-W. rd.; 4.7 ft W. of telephone pole; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "TR Q-22 1962 ARMY MAP SERVICE"			TIER 23	
	X = 475,267.18 Y = 796,664.32	1136.74	1-23	T. 3 S., R. 2 E., near SE. corner of sec. 10. To reach from post office in Laveen, drive S. on black top rd. for 6.3 mi to rd. fork, thence take right fork and go southerly, passing through Santa Cruz village, for 7.15 mi to junction with trail SE., thence turn left and go SE. for 0.35 mi to trail junction, thence turn right and go southerly for 0.3 mi to panel and station site; 84 ft W. of trail; in center of black and white panel; in top of concrete post projecting 0.1 ft; Corps of Engineers disk stamped "G-23 1948" (Not visited by USGS in 1965)	
Q-22 Panel USGS	Located 57 ft S. of station mark; center of 9- by 9-foot square white panel. X = 475,277.78 Y = 796,608.46	1135.6		X = 433,395.53 Y = 791,522.35	1080.50
Q ₁ -22 USGS	On S. side of rd.; 3/8-in. rod projecting 0.3 ft; in center of 9- by 9-foot square white panel. Rod Elev. 1137.93 Panel Elev. 1137.6		G-23 Panel AMS	Centered over station mark; black and white cross-target panel. Same horizontal position as station mark	1080.4

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
J-23	T. 3 S., R. 2 E., near SE. corner of sec. 12. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 3.2 mi to powerline crossing, thence turn left and go NW. on powerline rd. for 6.2 mi to large sandy clearing, thence turn left and go W. across country, staying on N. side of heavy brushline, for 1.5 mi to group of large mesquite trees and station site; about 300 ft N. of heavy brushline; in center of permanent panel; in top of concrete post; Corps of Engineers disk stamped "J-23 1948" (Not visited by USGS in 1965)		Q-23	T. 3 S., R. 4 E., near NW. corner of sec. 18. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 9.75 mi to track rd. E., thence turn right and go 0.15 mi to cross road, thence turn right and follow meandering rd. S. for 0.8 mi to reverse rd. fork and station; 13 ft E. of N.-S. rd.; 15 ft NW. of trail NE.; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "TT Q-23 1962 ARMY MAP SERVICE"	
	X = 443,668.90 Y = 791,757.42	1082.0		X = 476,266.30 Y = 791,208.34	1127.0
J-23 Panel AMS	Centered over station mark; black cross-target panel. Same horizontal position and elevation as station mark.		Q-23 Panel USGS	Centered over station mark; 12- by 12-foot square white panel. Same horizontal position as station mark	1126.6
L-23	T. 3 S., R. 3 E., near NW. corner of sec. 16. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 6.7 mi to cross road at E. end of Pima Butte, thence turn left and go NW. for 1.05 mi to rd. fork at N. end of Pima Butte, thence take right fork and follow main traveled rd. northwesterly for 3.05 mi to panel and station on left; in center of black panel; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "TT L-23 1948"		R-23	T. 3 S., R. 4 E., near SE. corner of sec. 7. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 10.0 mi to cross road, thence turn right and go E. for 1.15 mi to cross road, thence turn right and go S. for 0.95 mi to abandoned ditch crossing and station site; located 40 ft W. of centerline of N.-S. rd.; 23 ft S. of abandoned ditch; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "BM R-23 1948"	
	X = 455,304.54 Y = 791,471.16	1097.3		X = 481,192.19 Y = 791,600.87	1136.4
L-23 Panel AMS	Centered over station mark; black cross-target panel. Same horizontal position as station mark	1096.8	R-23 Panel USGS	Centered over station mark; 6- by 6-foot square black panel backgrounded by 12- by 12-foot white panel. Same horizontal position as station mark	1136.0
M-23	T. 3 S., R. 3 E., near SE. corner of sec. 9. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 6.7 mi to cross road at E. end of Pima Butte, thence turn left and go NW. for 1.05 mi to rd. fork, thence take right fork and follow main traveled rd. for 2.15 mi to trail fork, thence turn right and go 0.25 mi to dim trail leading N., thence turn right and go N. for 0.25 mi to trail E., thence turn right and go 0.1 mi to station site; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "M-23 1948"		S-23	T. 3 S., R. 4 E., near NE. corner of sec. 17. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), go S. on Highway 93 for 0.8 mi to cross road, thence turn right and go 3.0 mi W. to curve S., thence jog S. for 0.2 mi, thence continue on main rd. W. for 2.0 mi to powerline and rd. S., thence turn left and go S. 0.25 mi to rd. junction, thence turn right and go W. on main traveled rd. for 0.95 mi to dim trail to SW., thence turn left and go SW. for 0.75 mi to N. bank of river bottom, thence continue SW. for 0.15 mi to NE. corner of large clearing and station site; in NE. corner of once cultivated clearing; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "TT S-23 1948"	
	X = 460,144.22 Y = 791,535.30	1096.0		X = 486,235.62 Y = 791,042.73	1145.51
M-23 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark	1095.5	S-23 Panel USGS	Centered over station mark; 12- by 12-foot square white panel. Same horizontal position as station mark	1145.0
N-23	T. 3 S., R. 3 E., near NW. corner of sec. 14. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 7.7 mi to N. end of small butte on left and rd. W., thence turn left and go westerly on main traveled rd. for 1.1 mi to fork, thence take right fork and go NW. for 0.2 mi to dim trail N., thence turn right and follow meandering trail N. for 0.6 mi to heavy brushline, thence turn left and go W. 0.2 mi to station site; in small clearing; in center of old circular rock panel (now covered with mud); in top of concrete post 0.3 ft below surface of ground; Corps of Engineers disk stamped "TT N-23 1948"		T-23	T. 3 S., R. 4 E., near SE. corner of sec. 9. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), drive S. on Highway 93 for 0.8 mi to rd. W., thence turn right and go W. for 3.0 mi, thence turn S. for 0.2 mi, thence continue W. for 3.0 mi to dim trail S., thence turn left and follow trail due S. for 1.0 mi and station mark on right; 21 ft W. of trail; 3 ft E. of fence at large post; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "BM T-23 1948"	
	X = 465,947.71 Y = 791,090.01	1105.19		X = 491,779.86 Y = 791,392.08	1153.4
N-23 Panel USGS	Centered over station mark; 12- by 12-foot square white polyethylene panel. Same horizontal position as station mark	1105.5	T-23 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark	1153.0
P-23	T. 3 S., R. 3 E., near NW. corner of sec. 13. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 8.3 mi to trail NW. on N. side of Gila River, thence turn left and follow trail NW. for 0.4 mi, thence turn left off trail and go S. across country for 0.2 mi to large clearing and station site; on N. side of easternmost of three large trees; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "P-23 1948"		U-23	T. 3 S., R. 4 E., near SW. corner of sec. 11. To reach from junction of State Highways 93 and 87 (7.0 mi S. of Chandler), drive S. on Highway 93 for 0.8 mi to rd. W., thence turn right and go W. for 3.0 mi, thence turn S. and go 0.6 mi to rd. W., thence turn right and go W. for 1.75 mi to bend in main rd. just N. of adobe building and trail W., thence turn left and go 0.05 mi to trail SW., thence turn left and go SW. on main trail for 0.6 mi to ditch crossing and station site; 23 ft NE. of centerline of ditch; 13 ft SE. of centerline of trail; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT U-23 1948"	
	X = 471,355.52 Y = 790,855.62	1114.5		X = 497,273.12 Y = 791,515.79	1165.17
P-23 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark	1114.2	U-23 Panel USGS	Centered over station mark; 12- by 12-foot square white panel, with two 3- by 12-foot wing panels. Same horizontal position as station mark	1164.9

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
W-23	T. 3 S., R. 4 E., about 840 ft S. of NE. corner of sec. 13. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), go S. on Highway 93 for 0.8 mi to rd. W., thence turn right and go W. for 3.0 mi to turn S., thence turn left and go S. 0.7 mi to turn W., thence turn right and go W. for 1.2 mi to powerline crossing, thence turn sharp left onto powerline rd. and go SE. for 1.3 mi to cross trail and station site; 15 ft N. of powerline rd.; 15 ft W. of trail; 25 ft NE. of power pole No. 279; in top of concrete post projecting 0.2 ft; Corps of Engineers disk stamped "TR W-23 1960 ARMY MAP SERVICE"	1187.66	P-24	T. 3 S., R. 3 E., about 0.1 mi SE. of NW. corner of sec. 24. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 7.7 mi to trail W., thence turn left and go 0.1 mi to fork, thence turn left for 0.15 mi to station site; about 0.15 mi WSW. of small top; about 100 ft W. of small oval-shaped alkali flat; in top of concrete post projecting 0.2 ft; Corps of Engineers disk stamped "P-24 1948"	1126.6
	X = 507,561.25 Y = 790,656.23			X = 471,253.73 Y = 785,656.76	
	Horizontal position by USGS in 1965.			Horizontal position by USGS in 1965.	
W-23 Panel USGS	Centered over station mark; 12- by 12-foot square white panel.		P-24 Panel USGS	Centered over station mark; 6- by 6-foot square white panel.	
	Same horizontal position as station mark	1187.5		Same horizontal position as station mark	1126.4
Y-23	T. 3 S., R. 5 E., near NW. corner of sec. 16. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), drive S. on Highway 93 for 2.5 mi to rd. W., thence turn right and go northwesterly for 0.7 mi to cross road, thence turn right and go 0.1 mi to ditch crossing and station site; 17 ft S. of abandoned irrigation ditch; 14.5 ft E. of rd.; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "TY Y-23 1962 ARMY MAP SERVICE"	1206.7	Q-24	T. 3 S., R. 4 E., about 0.2 mi SE. of NW. corner of sec. 19. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 6.7 mi to cross road on E. side of Pima Butte, thence turn right and go E. for 0.4 mi to T-rd. N., thence turn left and go N. for 0.8 mi to trail intersection and station site; 32.5 ft W. of centerline of N.-S. rd.; 2.4 ft SW. of corner fence post; in top of concrete post projecting 0.2 ft; Corps of Engineers disk stamped "TR Q-24 1948 RESET AMS 1952"	1134.0
	X = 518,595.44 Y = 791,383.22			X = 475,325.75 Y = 784,990.13	
	Horizontal position by USGS in 1965.			Horizontal position by USGS in 1965.	
Y-23 Panel USGS	Centered over station mark; 12- by 12-foot square white panel.		Q-24 Panel USGS	Centered over station mark; 6- by 6-foot square white panel.	
	Same horizontal position as station mark	1206.2		Same horizontal position as station mark	1133.8
TIER 24					
L-24	T. 3 S., R. 3 E., near SE. corner of sec. 17. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 3.2 mi to powerline crossing, thence turn left and go NW. on powerline rd. for 4.9 mi to large sandy clearing, thence turn right and go E. across country, following clearing, to station site; at N. edge of clearing; about 75 ft W. of deep drain; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "L-24 1948"	1095.9	R-24	T. 3 S., R. 4 E., near SW. corner of sec. 17. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 10.0 mi to cross road, thence turn right and go E. for 1.1 mi to rd. S., thence turn right and go S. for 2.0 mi to station site on left; 47 ft E. of centerline of N.-S. rd.; 28 ft N. of N. bank of large wash; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "RM R-24 1948 RESET AMS 1956"	1134.57
	X = 454,531.35 Y = 786,274.36			X = 481,271.60 Y = 786,190.33	
	Horizontal position by USGS in 1965.			Horizontal position by USGS in 1965.	
L-24 Panel USGS	Centered over station mark; 6- by 6-foot square white panel.		R-24 Panel USGS	Centered over station mark; 6- by 6-foot square white panel.	
	Same horizontal position as station mark	1095.6		Same horizontal position as station mark	1134.3
M-24	T. 3 S., R. 3 E., near SW. corner of sec. 15. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 6.7 mi to cross road, thence turn left and go NW., on N. side of Pima Butte, for 1.05 mi to fork, thence take right fork and go westerly for 1.45 mi to fork, thence take left fork and go 0.3 mi to trail SW., thence turn left and go SW. for 0.2 mi, thence turn left and go S. 0.05 mi to large lone tree at NW. end of group of three trees and station; 32 ft W. of tree; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "M-24 1948"	1106.5	S-24	T. 3 S., R. 4 E., near SE. corner of sec. 17. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 10.0 mi to cross road, thence turn right and go E. for 1.1 mi to rd. S., thence turn right and go S. for 1.0 mi to cross trail, thence turn left and go SE. on main traveled trail for 0.6 mi to trail fork, thence take left fork and go 0.1 mi to cross trail, thence turn right and go S. 0.35 mi to clearing, thence SE. across country for 0.35 mi, thence cross a brushy drain, and continue SE. for 0.35 mi to SE. edge of clearing and station site; (use 4-wheel drive vehicle and photography for cross-country access to this station); in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "SM S-24 1948 RESET AMS 1953"	1141.68
	X = 460,230.18 Y = 786,602.26			X = 486,494.01 Y = 786,412.02	
	Horizontal position by USGS in 1965.			Horizontal position by USGS in 1965.	
M-24 Panel USGS	Centered over station mark; 6- by 6-foot square white panel.		S-24 Panel USGS	Centered over station mark; 6- by 6-foot square white panel.	
	Same horizontal position as station mark	1106.1		Same horizontal position as station mark	1141.4
N-24	T. 3 S., R. 3 E., near SW. corner of sec. 14. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 6.7 mi to cross road at E. end of Pima Butte, thence turn left and go NW. for 1.05 mi to rd. forks, thence take right fork and follow main traveled rd. for 0.75 mi to open sandy area and station on right; on S. side of lone tree; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "N-24 1948"	1114.16	T-24	T. 3 S., R. 4 E., near SE. corner of sec. 16. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), drive S. on Highway 93 for 5.1 mi to rd. W., thence turn right and go W. for 5.0 mi to cross road, thence turn right and go N. for 1.0 mi to cross road and track rd. NW. (at station U-25), thence turn left and go NW. on main trail for 0.3 mi to cross trail, thence continue straight ahead for 0.2 mi to N.-S. trail, thence turn right and go N. for 0.45 mi to trail W., thence turn left and go W. 0.5 mi to N.-S. trail, thence turn right and go 0.5 mi N. to station site on left; about 0.2 mi N. of rim; 18 ft W. of trail; in top of concrete post projecting 0.1 ft; Corps of Engineers disk stamped "BM T-24 1948"	1147.2
	X = 465,604.36 Y = 786,424.62			X = 491,772.00 Y = 785,891.09	
	Horizontal position by USGS in 1965.			Horizontal position by USGS in 1965.	
N-24 Panel USGS	Centered over station mark; 6- by 6-foot square white panel.		T-24 Panel USGS	Centered over station mark; 6- by 6-foot square white panel.	
	Same horizontal position as station mark	1113.9		Same horizontal position as station mark	1147.1

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
U-24	T. 3 S., R. 4 E., near SW. corner of sec. 14. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 5.0 mi to paved rd. E., thence turn right and go 5.45 mi to cross road, thence turn left and go N. for 3.0 mi to cross trail and station site; 10 ft E. of centerline of N.-S. rd.; 9 ft N. of cross trail; in top of concrete post flush with ground; Corps of Engineers disk stamped "TT U-24 1948 RESET AMS 1956"		N-25	T. 3 S., R. 3 E., near NE. corner of sec. 27. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 6.7 mi to cross road on E. side of Pima Butte, thence turn left and go SW. on S. side of Pima Butte for 1.5 mi to small butte on W. side of Pima Butte, and on W. side of Santa Cruz Wash; on top of small butte; cemented in outcropping bedrock; Corps of Engineers disk stamped "TR N-25 1948 RESET 1952"	
	X = 497,086.86 Y = 786,294.47	1156.66		X = 465,170.84 Y = 780,320.05	1161.35
U-24 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position and elevation as station mark.		N-25 Panel USGS	Centered over station mark; 12- by 12-foot square white panel. Same horizontal position and elevation as station mark	
TIER 25					
G-25	T. 3 S., R. 2 E., near SE. corner of sec. 22. To reach from post office in Laveen, go S. on black top rd. for 6.4 mi to rd. fork, thence take right fork and go SSE., passing through Santa Cruz village, for 8.6 mi to junction with track rd. from NE., thence turn left and go NE. 0.3 mi to cross trail, thence turn right and go S. for 1.0 mi to station site on right; about 150 ft W. of trail; in center of permanent panel; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "G-25 1949" (Not visited by USGS in 1965)		P-25	T. 3 S., R. 3 E., about 0.2 mi ESE. of NW. corner of sec. 25. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 6.7 mi to cross road on E. side of Pima Butte, thence turn left, take right fork for 0.2 mi to telephone line crossing, thence turn left and go S. along telephone line rd. for 0.15 mi and station; 43 ft E. of telephone line rd.; 90 ft NE. of pole No. 215; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "P-25 1948"	
	X = 433,180.78 Y = 780,899.06	1174.76		X = 471,738.78 Y = 780,551.10	1136.12
G-25 Panel AMS	Centered over station mark; black and white cross-target panel. Same horizontal position as station mark	1174.5	Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark	1135.7
J-25	T. 3 S., R. 2 E., near NE. corner of sec. 25. To reach from post office at Laveen, go S. on black top rd. for 6.4 mi to rd. fork, thence take right fork and go SSE., passing through Santa Cruz village and crossing pipeline, for 7.8 mi to junction with rd. from E., thence turn left and go E. for 0.9 mi past group of houses to corral, thence bear left around NE. corner of corral, thence go SE. for 1.7 mi to trail fork, thence take left fork and continue SE. for 0.4 mi to fork, thence take right fork for 0.1 mi to fork, thence take right fork and go S. for 0.5 mi to T.-rd., thence turn left and go E. for 0.1 mi, thence turn left and go N. across country for 0.4 mi and station site; in center of permanent panel; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TR J-25 1948 RESET AMS 1953" (Not visited by USGS in 1965)		Q-25	T. 3 S., R. 3 E., near SE. corner of sec. 24. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 6.7 mi to cross road, thence turn right and go 0.7 mi E. to powerline crossing, thence turn left and go N. along powerline for 0.1 mi to rd. NW., thence turn left and go 0.1 mi to fork, thence take right fork for about 150 ft to panel and station; in center of panel; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT Q-25 1948"	
	X = 443,699.56 Y = 780,370.02	1094.0		X = 475,644.41 Y = 781,584.22	1141.47
J-25 Panel AMS	Centered over station mark; black painted cross-target panel. Same horizontal position as station mark	1093.7	Q-25 Panel AMS	Centered over station mark; black asphalt cross-target panel. Same horizontal position as station mark	1141.2
L-25	T. 3 S., R. 3 E., near SW. corner of sec. 21. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 3.2 mi to powerline crossing, thence turn left and go NW. on powerline rd. for 3.95 mi to power pole No. 221; panel and station are about 270 ft W. of powerline; in top of concrete post projecting 0.1 ft; Corps of Engineers disk stamped "TT L-25 1948"		R-25	T. 3 S., R. 4 E., near SE. corner of sec. 19. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 5.1 mi to paved rd. E., thence turn right and go E. for 2.5 mi to rd. N., thence turn left and go N. for 2.15 mi to cross trail and station; 31 ft W. of N.-S. rd.; 9 ft N. of cross trail; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "RM R-25 1948"	
	X = 455,493.67 Y = 781,568.97	1103.6		X = 481,191.66 Y = 781,330.93	1141.0
L-25 Panel AMS	Centered over station mark; black asphalt cross-target panel. Same horizontal position as station mark	1103.5	R-25 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark	1140.6
M-25	T. 3 S., R. 3 E., near SE. corner of sec. 21. To reach from SP RR. crossing in Maricopa, drive N. on hwy. toward Phoenix for 3.2 mi to powerline crossing, thence turn left and go NW. on powerline rd. for 3.4 mi to trail NE., thence turn right and go NE. 0.55 mi to crossroads, thence turn left for 0.05 mi to fork, thence take right fork and follow dim trail NE. for 0.3 mi to lone mesquite tree and station site; on SW. edge of tree; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "M-25 1948"		S-25	T. 3 S., R. 4 E., about 0.1 mi N. of SE. corner of sec. 20. To reach from junction of Maricopa Highway and Williams Field Road, drive S. on Maricopa Highway for 11.2 mi to cross road on E. side of Pima Butte, thence turn left and go easterly on main rd. for 1.85 mi to cross road, thence go straight ahead (easterly) for 1.1 mi to canal crossing, thence cross canal and turn left and go N. on trail along canal for 1.1 mi to panel and station; about 75 ft E. of trail; in small clearing; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "TT S-25 1948" (Not visited by USGS in 1965)	
	X = 460,007.46 Y = 781,441.01	1113.2		X = 486,462.16 Y = 781,457.47	1147.48
M-25 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark	1112.7	S-25 Panel AMS	Centered over station mark; white painted cross-target panel. Same horizontal position as station mark	1147.2
			T-25	T. 3 S., R. 4 E., near SW. corner of sec. 22. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), go S. on Highway 93 for 5.1 mi to cross road, thence turn right and go W. for 5.0 mi to cross road, thence turn right and go N. 1.0 mi to cross road and trail NW., thence turn left and go NW. and W. for 0.3 mi to cross trail, thence continue W. for 0.2 mi to trail N., thence turn right and go 0.5 mi to trail W., thence turn left and go 0.5 mi to N.-S. trail, thence turn left and go S. for 0.5 mi to station on right; 13 ft W. of trail; in top of concrete post projecting 0.4 ft; Corps of Engineers disk stamped "BM T-25 1948"	
				X = 491,779.32 Y = 781,092.87	1156.6
			T-25 Panel USGS	Centered over station mark; 6- by 6-foot square white panel. Same horizontal position as station mark	1156.2

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)	STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
U-25	T. 3 S., R. 4 E., near NW. corner of sec. 26. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), go S. on Highway 93 for 5.1 mi to rd. W., thence turn right and go W. for 5.0 mi to cross road, thence turn right and go N. for 1.0 mi to cross road and station; 25 ft E. of centerline of N.-S. rd.; 23.4 ft S. of centerline of rd. E.; 3.5 ft SE. of corner fence post; in top of concrete post projecting 0.1 ft; Corps of Engineers disk stamped "BM U-25 1963 ARMY MAP SERVICE"		MESA WATER TANK NO. 1	The southernmost and smaller of two tanks at Rendezvous Park in Mesa. A cylindrical steel tank with cone roof, supported by four-legged steel tower, overall height is 136 ft. Point observed was ball at top center of tank. X = 526,404.57 Y = 880,616.48	
	No horizontal position established.	1168.9	MESA WATER TANK NO. 2	The northernmost and larger of two tanks at Rendezvous Park. A cylindrical steel tank with a cone roof supported by a six-legged steel tower, overall height is 136 ft. Point observed was ball at top center of tank. X = 526,406.03 Y = 880,797.18	
U-25 Panel USGS	87.5 ft NW. of station mark; 12- by 12-foot square white panel.	Panel Elev. 1169.1	CHANDLER W. T. NO. 1	Located about 0.3 mi SE. of city square of Chandler. The tank is the oldest of two water tanks in same fenced enclosure. Tank is a cylindrical steel tank with a cone roof, supported by four-legged steel tower. Overall height is about 135 ft. The center of the ball at the top center of the tank. X = 524,272.34 Y = 836,784.61	
PP U-25 AMS	Centerline of N.-S. rd. at intersecting centerline of rd. E. (position apparently obtained before old monument was destroyed) X = 497,063.07 Y = 780,859.29	1168.7	CHANDLER W. T. NO. 2	Tank is the newest and largest of two water tanks in same fenced enclosure in Chandler. The tank has a flattened spherical-appearing shape, and is supported by an eight-legged steel tower. Overall height about 135 ft. Point is the cap on top center of tank. X = 524,250.75 Y = 836,710.81	
W-25 (C&GS BM N-276)	T. 3 S., R. 4 E., near NE. corner of sec. 25. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), go S. on Highway 93 for 5.1 mi to cross road, thence turn right and go W. for 3.0 mi to cross road, thence turn right and go N. for 1.0 mi to E.-W. rd. and station site; 38 ft S. of centerline of E.-W. rd.; 20 ft W. of centerline of rd. S.; 2 ft E. of fence line; in top of concrete post projecting 0.2 ft; USC&GS standard disk stamped "N 276 1948"		TEMPE BUTTE MAST	Located on N. side of Tempe, on highest point of prominent butte known as Tempe Butte. The point observed was the center of a 45 ft long cedar pole supported by a 20 ft high steel tower. X = 494,375.90 Y = 883,297.78	
W-25 Panel USGS	Located 71 ft NNE. of station; 12- by 12-foot square white panel. X = 507,625.77 Y = 780,912.04	1185.4	ST. JOHNS INDIAN SCHOOL W. T.	NO DESCRIPTION X = 421,902.78 Y = 833,510.71	
Y-25	T. 3 S., R. 5 E., about 0.1 mi NE. of SW. corner of sec. 21. To reach from junction of State Highways 87 and 93 (7.0 mi S. of Chandler), drive S. on Highway 93 for 5.1 mi to cross road, thence turn right and go W. 1.0 mi to cross road just W. of canal, thence turn right and go N. 0.9 mi to intersection of 5 trails at bank, thence take trail leading N. for 0.2 mi to station site; 75 ft W. of rd.; in center of panel; in top of concrete post projecting 0.5 ft; Corps of Engineers disk stamped "TT Y-25 1948"		WESTERN FEED & SEED CO. W. T.	Located 2.5 mi W. of town of Gilbert, and 0.4 mi S. of Guadalupe Road. Tank is a cylindrical steel tank with a cone roof, supported by four-legged steel tower. Overall height is about 105 ft. Point sighted was the finial of the cone roof of tank. X = 526,083.98 Y = 858,159.31	
Y-25 Panel USGS	The AMS permanent asphalt panel at this station was covered with dirt and no longer clearly visible on aerial photos. An 8- by 8-foot square white temporary panel was centered over station mark by USGS in 1965. Same horizontal position as station mark	1194.1	AMS TRIANGULATION STATIONS		
AMS INTERSECTED STATIONS			CONFER	T. 2 S., R. 4 E., about 0.15 mi E. of center of sec. 29. To reach from SP RR. crossing in Maricopa, drive northerly on hwy. toward Phoenix for 12.4 mi to cross road, thence turn right on track rd. and go easterly for 1.2 mi to cross road and station site; 19 ft S. of centerline of E.-W. rd.; 17.5 ft W. of centerline of N.-S. rd.; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "CONFER 1962 ARMY MAP SERVICE"	
KPHO TV TOWER	On highest ridge in South Mountain Park; easternmost of four large-TV towers; a self-supported, tapered, three-legged steel tower painted red and white, and 387 ft tall. Center of tower. X = 455,927.14 Y = 849,034.30		POST	T. 2 S., R. 5 E., about 0.25 mi W. of center of sec. 31. To reach from courthouse in Chandler, drive S. on Highway 87 for 6.0 mi to rd. W., thence turn right and go W. for 2.7 mi to station on right; located midway between two large cottonwood trees; 15 ft N. of centerline of E.-W. rd.; 9 ft S. of irrigation ditch; in top of concrete post projecting 0.3 ft; Corps of Engineers disk stamped "POST 1962 ARMY MAP SERVICE" (Not visited by USGS in 1965) X = 508,849.00 Y = 804,139.94	1145.6 1184.2
KTVK TV TOWER	On highest ridge in South Mountain Park; second most westerly of four TV towers; tower is a self-supported, tapered, three-legged steel tower painted red and white. The overall height is 228 ft. Center of tower. X = 455,451.53 Y = 848,910.35		HARVESTER	To reach from intersection of South Central Avenue and Baseline Road, drive S. into South Mountain Park for 2.6 mi to rd. forks, thence take middle fork of three and go 1.3 mi to rd. fork, thence take left fork and continue around a curve and up a long grade on Summit Drive for 3.4 mi to rd. fork, thence take right fork and go E. for 1.2 mi to end of paved rd. at island turnaround, thence go in northerly direction on trail rd. that terminates on a high rd. and station site. Station mark is a Corps of Engineers disk stamped "HARVESTER, AMS 1960" (Not visited by USGS in 1965) X = 463,966.99 Y = 852,078.76	2547.2
KTAR TV TOWER	On highest ridge in South Mountain Park. The most westerly of four TV towers; it is a guyed triangular-shaped steel tower painted red and white. Overall height is 350 ft. Center of tower. X = 455,193.39 Y = 848,748.70				
U. OP ARIZONA WATER TANK	Located about 2.0 mi W. of Mesa; 600 ft N. of SP RR. tracks. A cylindrical steel tank painted black with cone roof supported by four-legged steel tower. Overall height is 75 ft. Point observed was the finial of cone roof. X = 515,820.43 Y = 877,657.41				

STATION	DESCRIPTION PLANE COORDINATES	ELEVATION (feet)
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USC&GS TRIANGULATION STATIONS
(Occupied by USGS, 1965)

GILA BUTTE	Station is located about 10.0 mi S. of Chandler, and 1.25 mi W. of State Highway 93; just N. of Gila River, and on highest southeasternmost peak of Gila Butte; cemented in drill hole in outcropping bedrock on highest point; USC&GS standard triangulation station disk stamped "GILA BUTTE 1935"	
	X = 516,948.21 Y = 784,156.82	

PIMA BUTTE	Station is located about 16.0 mi SW. of Chandler; about 1.0 mi W. of Phoenix-Mari-copa Highway; 1.25 mi S. of Gila River; on eastern end of prominent butte; cemented in drill hole; USC&GS standard triangulation station disk stamped "PIMA BUTTE 1935"	
	X = 468,823.66 Y = 781,072.49	