

DEGREE QUADRANGLE 32°-33°, 117°-118°

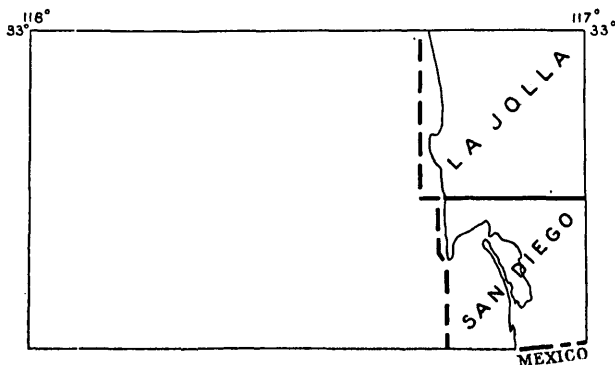


FIGURE 4.—Diagram of degree quadrangle 32°-33°, 117°-118°

LA JOLLA QUADRANGLE

[Latitude 32° 45'-33°; longitude 117°-117° 15']

SAN DIEGO COUNTY

Precise leveling by the U. S. Coast and Geodetic Survey in 1906

North along Atchison, Topeka & Santa Fe Ry. in west part of quadrangle

	Feet
D, Old Town (San Diego), about 100 meters east of the Atchison, Topeka & Santa Fe Ry., set in hardpan, in the southwest corner of the public-school grounds; stone post 4 feet long by 6 inches square, projecting 6 inches above ground, with a hole cut in top 2.5 centimeters square and about 4 millimeters deep, bottom of which is bench mark (top of post lettered "U. S. B. M.")-----	25. 436
E, about 1 mile north of Atwood, on the Atchison, Topeka & Santa Fe Ry. right of way, at west end of concrete culvert F 260, in center of horizontal surface; three-eighths inch copper bolt 2 inches long, set flush with surface.-----	62. 962
F, about 1.25 miles northwest of Ladrillo, 25 meters northwest of milepost 258, set in clay, in the corner of a fence, one-third of a meter east of the Atchison, Topeka & Santa Fe Ry. right of way; iron post, same as at "A," San Diego quadrangle.-----	97. 063
G, Selwyn, on the Atchison, Topeka & Santa Fe Ry. right of way, about 80 meters west of signboard "Selwyn," 16 meters north of track; stone post, same as at "D"-----	232. 470
H, Sorrento, about 75 meters southwest of the Atchison, Topeka & Santa Fe Ry. station, in corner of fence, on land owned by John Works; stone post, same as at "D"-----	40. 452
I, about 1 mile south of Del Mar, on the Atchison, Topeka & Santa Fe right of way, 1 meter south of second telegraph pole south of road crossing, 15 meters east of track and 3 meters above rail; iron post, same as at "A"-----	152. 040

	Feet
I, Del Mar, on West Tenth Street, about 100 meters west of the Atchison, Topeka & Santa Fe Ry. right of way, on land owned by J. W. Bennett, on east face of old cement foundation, in center of vertical surface, three-fourths of a meter above ground; copper bolt, same as at "E"-----	90.577

STANDARD BENCH MARKS OF THE UNITED STATES GEOLOGICAL SURVEY

Leveling by George H. Herrold in 1898

From Green Valley south along road to Poway Divide, thence southwest via Linda Vista Mesa and Murray Canyon to North San Diego (Old Town) (double-rodged line)

Watson's ranch, 5 feet east of fence corner, north side of Poway Road, at junction with San Diego Road; iron post stamped "585"-----	585.941
Merton post office, southeast corner of junction of Poway and San Diego roads; iron post stamped "438"-----	438.890
Poway Divide, on south side of road; iron post stamped "967"-----	967.900
Virginia post office, 0.75 mile southwest of, in forks of road where road down valley leaves San Diego Road; iron post stamped "578"-----	578.897
Linda Vista Mesa, junction of Escondido and Linda Vista roads, 8.5 miles north of San Diego; iron post stamped "417"-----	417.393
Linda Vista Mesa, head of grade out of Mission Valley, on east side of Escondido Road and south end of mesa road; iron post stamped "394"-----	394.357
County Hospital, north of, west side of road to San Diego, 40 feet south of road to Old Town; iron post stamped "28"-----	28.378
Old Town (San Diego), south and east of motor track, in west wall at northwest corner of brick building, 2.6 feet above porch floor; copper bolt stamped "U. S. G. S. 44 ft. B. M."-----	44.335

Primary leveling by W. V. Hardy in 1901

From San Diego County Hospital along county road to Morena, thence along San Diego, Pacific Beach & La Jolla Ry. to race track, thence along Southern California Ry. to Sorrento

Moreno, in front of station; top of rail-----	15.6
Race Track, southwest corner of station; top of rail-----	21.0
American Park race track, 710 feet north of station, at southwest angle of junction of road to Pacific Beach; iron post stamped "25 S D" (recovered by U. S. Coast and Geodetic Survey)-----	25.449
Ladrillo, 2 miles north of, 600 feet west of G. N. Gilbert's ranch house, at junction of road to house with road from San Diego to Sorrento; iron post stamped "176 S D"-----	176.620
Selwyn, at signboard; top of rail-----	236.3
Linda Vista, 25 feet west of section house, 10 feet east of siding, in northwest corner of yard; iron post stamped "376 S D" (recovered by U. S. Coast and Geodetic Survey)-----	376.764

From Linda Vista east along wagon road to Virginia

Linda Vista, 2.4 miles east of, at northwest angle of intersection of roads; iron post stamped "452 S D"-----	452.945
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From Sorrento east along county road to Merton		Feet
Sorrento, in front of station; top of rail-----		31. 8
Sorrento, 35 feet north of station, 15 feet northwest of section house, 25 feet east of road crossing; iron post stamped "31 S D" (recovered by U. S. Coast and Geodetic Survey)-----		31. 640
Los Perasquitos ranch house, 0.7 mile east of, at intersection of roads; iron post stamped "245 S D"-----		245. 763
From Sorrento north 1.5 miles along Southern California Ry., thence by wagon road via San Dieguito schoolhouse to Los Perasquitos ranch		
San Dieguito schoolhouse, 2 feet west of, 1 foot south of porch, at entrance; iron post stamped "53 S D"-----		53. 606
San Dieguito schoolhouse, 4.3 miles east of, at junction of roads; iron post stamped "348 S D"-----		348. 742
From San Diego County Hospital via county road up San Diego River to Old Mission dam, thence south to La Mesa		
Grantville, at entrance to schoolhouse, on west side of porch; iron post stamped "123 S D"-----		123. 456
Old Mission dam, 125 feet southeast of, 100 feet south of San Diego River, 70 feet north of road, 35 feet east of windmill; iron post stamped "288 S D"-----		288. 513
La Mesa Springs, at northeast corner of La Mesa Lemon Co.'s store, in brick front, 2.5 feet above porch floor; bronze tablet stamped "539 S D"-----		540. 061
From La Mesa Springs west along county road, via San Diego Normal School, to San Diego		
San Diego Normal School, at east side of main entrance, in south face of baluster, set flush with vertical surface 3 feet above ground; bronze tablet stamped "355 S D"-----		356. 024

SAN DIEGO QUADRANGLE

[Latitude 32° 30'-32° 45'; longitude 117°-117° 15']

SAN DIEGO COUNTY

Double-rodde line by Geo. H. Herrold in 1896

From quarantine station northeast to North San Diego (Old Town), thence south along Pacific Beach motor track to San Diego		Feet
Quarantine station, north of, on Point Loma, U. S. Coast and Geodetic Survey bench mark, "Tidal 1," granite block 10 inches square on top, marked "U. S." (north side marked "Ref. Mark," east side marked "Coast Survey," south side marked "1853-54-55," west side marked "for tide," latest value)-----		8. 724
Roseville, at southeast corner of fenced school grounds; iron post stamped "35" (recovered by U. S. Coast and Geodetic Survey)-----		35. 302
San Diego County courthouse, in the foundation pier north of south- east corner of east wing, 4 feet above ground; bronze tablet stamped "42 S D"-----		42. 353
San Diego, City bench mark, City Hall, Third and D Streets; north corner of stone steps (recovered by U. S. Coast and Geodetic Survey). (The elevation of this bench mark by the city datum is 40 feet)-----		46. 131

San Diego, Fourth and K Streets, in brick wall of west front of Creigne Building, 2 feet above step, north of door, old U. S. Coast and Geodetic Survey bench mark, Geological Survey elevation-----	Feet 12. 20
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Primary leveling by W. V. Hardy in 1901 and by C. L. Nelson in 1902

From San Diego Courthouse via National City & Otay Ry. to Otay

San Diego, intersection of Front Street and Southern California Ry. track; top of rail-----	8. 0
San Diego, at crossing of National City & Otay and San Diego, Cuyamaca & Eastern railways; top of rail-----	9. 7
National City, at intersection of National Avenue and First Street; top of rail-----	27. 0
National City, at Twenty-fifth Street, 60 feet north of school, east of road; iron post stamped "57 S D"-----	57. 832
Sweetwater Junction; top of rail-----	23. 5
Chulavista, in front of station; top of rail-----	74. 2
Otay, 1.5 miles south of schoolhouse, 1 foot east of porch, at east side of entrance; iron post stamped "62 S D"-----	62. 572

From Sweetwater Junction via National City & Otay Ry. to La Presa, thence north to La Mesa

Bonita store, in front of platform; top of rail-----	60. 3
Sweetwater schoolhouse, 85 feet northwest of, 25 feet south of road and 15 feet south-southeast of pepper tree; iron post stamped "65 S D"-----	65. 554
Sunnyside, in front of station; top of rail-----	93. 5
Aloha, in front of station; top of rail-----	152. 2
La Presa, 1 mile southwest of, 130 feet northeast of signboard at intersection of roads; iron post stamped "238 S D"-----	238. 566

From Otay along county road east to west line of Otay ranch

T. 18 S., R. 1 W., sec. 20, 3 feet north of east gate to Dr. Wiard's field, 2 feet east of west line of Otay ranch, 10 feet northwest of intersection of roads; iron post stamped "149 S D"-----	149. 515
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BENCH MARKS OF THE UNITED STATES COAST AND GEODETIC SURVEY

Near San Diego

San Diego, tidal 7, directly over tidal 6, in the surface of a cement collar or encasement built around the pile as a protection, toward the northwest corner of the collar; three-fourths inch hole 2 inches deep filled with babbitt metal (a rod held upon this point clears the north side of the pier)-----	1. 959
San Diego, tidal 3, in the United States Quarantine Grounds, near the inner end of the pier and southwest of the blacksmith shop, at center of the top of a cement monument 1 foot square and 2 feet long, projecting 1 foot above the ground, resting upon a pier built of rock and cement upon the sand, 3 feet deep, 2.5 by 4 feet at the bottom, and 2 by 1.5 feet at the top; monument mark "U. S. C. S. 1906" and two diagonal lines, with a light dot at the center-----	6. 168

Feet

San Diego, tidal 2, near the northeast corner of the residence of the quarantine surgeon, on the cover of a sewer, in a granite slab 4 feet square, resting on a brick foundation and having an iron-covered manhole 2 feet in diameter in its center; drill hole filled with lead, 3½ inches from the edge of the iron cover and northwest of the center of the manhole-----	10. 086
San Diego, tidal 5, in the United States Quarantine Grounds, near the southeast corner of the Cottage Hospital, on the cover of a sewer, a granite slab 4 feet square, cemented upon masonry and having an iron manhole 2 feet in diameter in its center; three-fourths inch hole 2 inches deep, filled with babbitt metal flush with the surface, 6.5 inches from the manhole, on the southeast corner-----	7. 782
San Diego, tidal 4, outside the United States Quarantine Grounds, near the northwest corner, about 110 feet north of the fence; cement pier or monument similar to tidal 3 (the soil at the depth of 3 feet and for about a foot above is almost a hardpan)-----	12. 487
San Diego, tidal 1, about 400 feet almost due north of the northwest corner of the United States Quarantine Grounds; center of the top of a granite block 10 inches square-----	8. 724
A, about 1.25 miles north of Roseville, Point Loma, set in hardpan, at the inside corner of the public road leading from Roseville to Old Town, in range with the telephone poles and 1 meter south of the pole set in the corner; Coast Survey iron b. m. post-----	33. 327
B, about 1¼ miles north of San Diego, on the Atchison, Topeka & Santa Fe Ry. right of way, about 50 meters north of milepost 266, on west end of concrete culvert "C 266" in the corner of the horizontal surface, 2½ meters below the rail; Coast Survey b. m. tablet-----	20. 630
C, San Diego, at southwest corner of Fir and California Streets, on the Atchison, Topeka & Santa Fe Ry. right of way, 3 meters west of track, on west side of iron rim to a manhole; surface within an outlined square 1 inch on each side-----	23. 570