

# DEGREE QUADRANGLE 33°-34°, 118°-119°

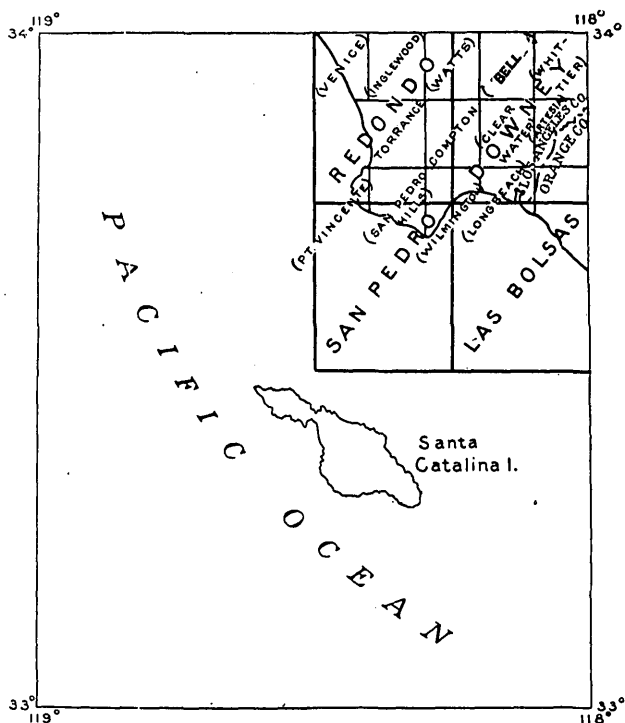


FIGURE 9.—Diagram of degree quadrangle 33°-34°, 118°-119°

## DOWNEY QUADRANGLE

[Latitude 33° 45'-34°; longitude 118°-118° 15']

### LOS ANGELES AND ORANGE COUNTIES

Precise leveling by L. F. Biggs in 1914

From Ramona southeast along Southern Pacific R. R. to Buena Park

|                                                                                                                                                                                                  | Feet    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Ramona Tile Works office, at west entrance; top of first concrete step-----                                                                                                                      | 189.84  |
| Florence, 15 feet east of railroad, at Florence Ave. crossing, north end of concrete culvert marked "U. S. B. M."-----                                                                           | 155.65  |
| Florence station, Pacific Vegetable Co.'s warehouse, top of second concrete pier from northwest corner; aluminum tag stamped (?)--                                                               | 133.53  |
| Florence station 0.6 mile east of, east edge of Long Beach Bvd., 15 feet north of track, in north end of concrete culvert; bronze tablet stamped "123 1914 60." U. S. C. & G. S. 1920 value----- | 122.683 |
| Florence, 2.2 miles southeast of, on northwest pier of steel bridge; chiseled cross marked "U. S. B. M."-----                                                                                    | 128.15  |
| Cudahy, 60 feet west of station, on northeast corner of concrete culvert; chiseled cross marked "U. S. B. M."-----                                                                               | 115.74  |
| Vineland, 400 feet southeast of station, 50 feet south of track; point on southeast foundation of power tower-----                                                                               | 109.62  |

|                                                                                                                                                                                                                                         | Feet     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Downey, 1 mile northwest of, in base of railroad signboard; spike----                                                                                                                                                                   | 113. 78  |
| Downey, 500 feet south of station, southwest corner of concrete foundation of belt signal-----                                                                                                                                          | 117. 04  |
| Downey, at intersection of First and Crawford streets, in southwest wall at south corner of brick store, 4 feet above ground; bronze tablet stamped "122 61 1914." U. S. C. & G. S. 1920 value-----                                     | 121. 972 |
| Downey, 1.5 miles southeast of, at road crossing, on north end of concrete culvert 496 I; chiseled cross, marked "U. S. B. M."-----                                                                                                     | 104. 28  |
| Studebaker, 0.25 mile southeast of, on southeast corner of concrete culvert 497 F; chiseled cross, marked "U. S. B. M."-----                                                                                                            | 104. 28  |
| Norwalk, 0.2 mile east of station, 50 feet north of railroad, in center of south end of concrete highway culvert; bronze tablet stamped "96 1914 62"-----                                                                               | 96. 119  |
| Norwalk, 1 mile southeast of, at north and south road crossing, on end of concrete culvert 499 C; chiseled cross, marked "U. S. B. M."-----                                                                                             | 84. 25   |
| Carmenita, 0.2 mile southeast of, on north end of concrete culvert 501 B; chiseled cross, marked "U. S. B. M."-----                                                                                                                     | 68. 50   |
| Carmenita, 1 mile southeast of, at road crossing, on north corner of concrete culvert 502 D; bronze tablet stamped "62 1914 63" U. S. C. & G. S. 1920 value-----                                                                        | 61. 644  |
| Los Angeles-Orange county line, about 500 feet southeast of, on north end of concrete culvert 503 E; chiseled cross, marked "U. S. B. M."-----                                                                                          | 64. 47   |
| <b>From Florence south along Southern Pacific R. R. to Thenard Junction</b>                                                                                                                                                             |          |
| Florence station, top of second concrete pier from northwest corner of Pacific Vegetable Co.'s warehouse-----                                                                                                                           | 133. 53  |
| Florence, 1.0 mile south of, west side of track, opposite Florence 1-mile post, at Tweedy residence; top of south end of lower concrete step-----                                                                                       | 112. 16  |
| Palermo, 20 feet north of Pacific Electric Power station, on north end of concrete abutment; chiseled cross, marked "U. S. B. M."---                                                                                                    | 96. 83   |
| Belle Vernon; top of rail-----                                                                                                                                                                                                          | 81. 05   |
| Compton, 1 mile north of, northeast corner of concrete culvert 492 C; chiseled cross, marked "U. S. B. M."-----                                                                                                                         | 76. 63   |
| Compton, 100 feet east of railroad crossing, south side of Long Beach Bvd., on concrete culvert; chiseled cross, marked "U. S. B. M."-----                                                                                              | 69. 21   |
| Compton, east edge of right of way, opposite depot; iron post stamped "67"-----                                                                                                                                                         | 66. 959  |
| Compton, 1.2 miles south of, at road crossing 495 A B, in railroad crossing signboard; spike-----                                                                                                                                       | 60. 45   |
| Dominguez Junction, at south edge of south door of west entrance to Pacific Electric Power house, 12 feet from southeast corner of building, 3.5 feet above ground, on top of concrete floor; chiseled cross, marked "U. S. B. M."----- | 58. 85   |
| Road crossing 496 D E; top of rail-----                                                                                                                                                                                                 | 45. 36   |
| Elftman (Cerrillos), 500 feet south of road crossing, on west end of concrete culvert 497 E; chiseled point marked "U. S. B. M."---                                                                                                     | 31. 63   |
| Dolores, Dominguez Water Co.'s pump house, at south end of central door; point on concrete sidewalk-----                                                                                                                                | 28. 34   |
| Dolores, Dominguez Water Co.'s power house, in west concrete wall, 18 inches south of central door, 5 feet above walk; bronze tablet stamped "33 1914 68"-----                                                                          | 33. 314  |

|                                                                                                                                                                 | Feet    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Watson, 40 feet northeast of station, at crossroads, in base of mile post 500; spike-----                                                                       | 24. 15  |
| Thenard Junction, 180 feet south of switch head, on north end of Y, 20 feet east of track, at base of telephone pole; iron post stamped "Elev. 33 No. 67."----- | 32. 812 |

## Primary leveling by H. S. Crowe in 1897

From Wilmington north along Southern Pacific R. R. to Clement Junction, Los Angeles (double-rodde line)

|                                                                                                                                                                                                                                                                         |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Thenard Junction, about 100 feet west of station sign, 20 feet east of track, 180 feet south of switch head, and 1 foot from telegraph pole; iron post stamped "33" (U. S. C. & G. S. b. m. G 33, 1920)---                                                              | 32. 812  |
| Cerritos, at Dominguez and Railroad avenues, 1 foot from corner of fence of railroad right of way, 96 feet from southwest corner of railroad building; iron post stamped "32"-----                                                                                      | 31. 757  |
| Compton, 1 foot from fence in front of station, 88 feet from northeast corner of station building, east edge of right of way, and 30 feet from north post of gate to R. Barker's residence, fronting station; iron post stamped "67" (U. S. C. & G. S. b. m. D 33)----- | 66. 959  |
| Florence, between station building and small outhouse, 39 feet from southwest corner of station building, 5 feet from large palm tree; iron post stamped "136"-----                                                                                                     | 136. 052 |

## LOS ANGELES COUNTY SPECIAL SURVEY

DOWNEY, LAS BOLSAS, REDONDO, AND SAN PEDRO 15' QUADRANGLES AND THE 6' QUADRANGLES SHOWN IN THE FIGURE

[Latitude 33° 30'-34°; longitude 118°-118° 30']

Precise leveling by U. S. Coast and Geodetic Survey in 1920 and by L. F. Biggs, of the U. S. Geological Survey, in 1914 and primary leveling by H. S. Senseney and C. W. H. Nessler in 1923 and others

Precise leveling by U. S. Coast and Geodetic Survey in 1920 over route of U. S. Geological Survey precise line by L. F. Biggs in 1914

From Pasadena quadrangle south along Southern Pacific R. R. to San Pedro

|                                                                                                                                                                                                                                          | Feet     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Y-32, Florence, at southwest intersection of Nadeau and Alameda streets, 50 feet east of Southern Pacific tracks, in sidewalk immediately in front of grocery store of C. O. P. Smith, near east corner of building; red metal disk----- | 141. 581 |
| B-33, Compton, 1.2 miles north of, at mileage 493, west of track, on highway culvert opposite 492-G, east side of roadway; red metal disk-----                                                                                           | 75. 315  |
| C-33, Compton, I. O. O. F. building, which is a large red brick building about 400 feet west of Southern Pacific tracks, on Main St., right side of main entrance, set in nook in wall in sidewalk; red metal disk-----                  | 68. 487  |
| D-33, Compton, opposite Southern Pacific R. R. station, at east edge of right of way at fence line; Geological Survey iron post stamped "67"-----                                                                                        | 66. 959  |
| E-33, Compton, 2.1 miles south of, at mileage 496.2, at crossing of Pacific Electric tracks, 80 meters east of crossing, west of track, on top face of concrete culvert 496-B; the center of "9" in 1918-----                            | 51. 401  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                       | Feet    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| F-33, Dolores, at mileage 498.3, Dominguez Water Co.'s power house, in west concrete wall, 18 inches south of central door, 5 feet above ground; Geological Survey bronze tablet stamped "33 1914 68"                                                                                                                                                                                                                                 | 33.314  |
| G-33, Thenard Junction, at mileage 501.4, 180 feet south of switch head, on north end of Y, 20 feet east of track, at base of telegraph pole; Geological Survey iron post stamped "Elev. 33 No. 67"                                                                                                                                                                                                                                   | 32.812  |
| H-33, Wilmington, 153 feet from southwest corner of station and opposite to same; Geological Survey iron post stamped "7." (The surrounding land was later covered with about 6 feet of earth. The bench mark was surrounded with a 10-inch sheet-iron pipe, which protects it, and a rod can be held on it by putting the rod down the pipe. Filling in the land at this place has probably changed the elevation of the bench mark) | 6.585   |
| I-33, San Pedro, on north side of City Hall, at main entrance on Beacon Street, on top face of banister post, about 5 feet above ground; Geological Survey bronze tablet set horizontally flush with top face                                                                                                                                                                                                                         | 30.040  |
| J-33, City Library, at summit of hill on Beacon Street, near City Hall, at left side of main entrance, on east end of first step; red metal disk                                                                                                                                                                                                                                                                                      | 72.172  |
| K-33, in San Pedro, Public School Building, on Center Street, set in banister on left side of main entrance, about 2 feet above ground; red metal disk                                                                                                                                                                                                                                                                                | 103.628 |
| U. S. B. M. Q., at San Pedro, in northeast corner of double work of east jetty, in concrete monument 1.5 feet square; copper bolt                                                                                                                                                                                                                                                                                                     | 7.155   |

**Additional bench marks on preceding route by L. F. Biggs in 1914**

|                                                                                                                                                                                                                                     |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Ramona Tile Works office, at west entrance; top of first concrete step                                                                                                                                                              | 189.84 |
| Florence station, Pacific Vegetable Co.'s warehouse, top of second concrete pier from northwest corner of                                                                                                                           | 133.53 |
| Florence, 1.0 mile south of, west side of track, opposite Florence 1-mile post, at Tweedy residence; top of south end of lower concrete step                                                                                        | 112.19 |
| Palermo, 20 feet north of Pacific Electric station, on north end of concrete abutment; chiseled cross, marked "U.S.B.M."                                                                                                            | 96.84  |
| Belle Vernon; top of rail                                                                                                                                                                                                           | 81.1   |
| Compton, 1 mile north of, northeast corner of concrete culvert 492-C; chiseled cross, marked "U.S.B.M."                                                                                                                             | 76.65  |
| Compton, south side of Long Beach Blvd., 100 feet east of railroad crossing, on concrete culvert; chiseled cross, marked "U. S. B. M."                                                                                              | 69.18  |
| Compton, 1.2 miles south of, at road crossing 495-A B, in railroad crossing signboard; spike                                                                                                                                        | 60.45  |
| Dominguez Junction, at west entrance to Pacific Electric Power house, at south edge of south door, 12 feet from southwest corner of building and 3.5 feet above ground, on top of concrete floor; chiseled cross, marked "U.S.B.M." | 58.85  |
| Road crossing 496-D E; top of rail                                                                                                                                                                                                  | 45.36  |
| Elftman (Cerritos), 500 feet south of road crossing, on west end of concrete culvert 497-E; chiseled point marked "U.S.B.M."                                                                                                        | 31.63  |
| Dolores, Dominguez Water Co.'s pump house, at south end of central door; point on concrete sidewalk                                                                                                                                 | 28.34  |
| Watson, 40 feet northeast of station, at crossroads, in base of mile-post 500; spike                                                                                                                                                | 24.15  |

|                                                                                                                                                                                                                                                    | Feet   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Wilmington, west side of Canal Street, at north edge of Front Street, in concrete curb; iron pin, "U. S. B. M. chiseled on curb"                                                                                                                   | 12. 10 |
| Wilmington, east side of Canal Street, in line with north side of Front Street; lead plug with copper nail marked "U. S. B. M."---                                                                                                                 | 12. 24 |
| Wilmington, about 3,000 feet west of station, 20 feet south of track, 800 feet north of east end of new pier A, Los Angeles shed 1, top of concrete under tripod (apparently a Harbor Survey triangulation station); cement flush with ground----- | 5. 13  |

## At San Pedro

|                                                                                                                                                        |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| San Pedro, Southern Pacific and Pacific Electric railroads draw-bridge, on east end of north concrete pier; chiseled cross, marked "U. S. B. M."-----  | 6. 33   |
| San Pedro, at Front and Fifth streets; in northeast corner of concrete sidewalk; iron pin-----                                                         | 14. 23  |
| San Pedro, City b. m. No. 1, on south side of Sixth Street between Front and Beacon streets, on stone step in front of cigar stand; a brass screw----- | 16. 860 |
| San Pedro, Beacon Street, 3 feet north of Sixth Street, opposite bank, in cement curb; spike (Los Angeles datum 11.112)-----                           | 16. 795 |
| San Pedro, Front Street, 3 feet north of wall, west side of pepper tree; nail (?)-----                                                                 | 21. 238 |
| San Pedro, brick building of Bank of San Pedro, top of upper stone of foundation; U. S. C. & G. S. bench mark (of 1890)-----                           | 22. 343 |

From Florence along Southern Pacific R. R. through north part of Downey quadrangle to Rio Hondo, thence southeast to Buena Park, Anaheim quadrangle

|                                                                                                                                                                                                                                                |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Z-32, Florence, 600 feet north of station, at mileage 488.95, on most easterly of four central piers supporting large water tank, west of track, head of bolt. Bolt is nearer of two to tracks-----                                            | 140. 977 |
| A-33, Florence, mileage 489.1, in northwest corner of small grass plot immediately north of station, in top of irregular granite block set in ground with top protruding about 6 inches; red metal disk---                                     | 136. 617 |
| M-33, Florence, 0.6 mile east of, on Southern Pacific line leading toward Santa Ana, east edge of Long Beach Boulevard, 15 feet north of track, in north end of concrete culvert; Geological Survey bronze tablet stamped "123, 1914, 60"----- | 122. 683 |
| N-33, Florence, 2.4 miles east of, at mileage 491.4, on old west abutment of bridge (now a fill), 3 meters north of track, a rounded knob on top face of granite block flush with roadbed; square on concrete-----                             | 128. 185 |
| O-33, near Cudahy R. R. crossing, mileage 492, 0.2 mile east of tower, on west side of concrete culvert 492-C; red metal disk----                                                                                                              | 112. 841 |
| P-33, Downey, at crossing of Crawford Street and Southern Pacific R. R. at point of switch, southwest side of track, 5 meters northwest of road, in face of concrete culvert 495-A; red metal disk---                                          | 116. 056 |
| Q-33, at Downey, at intersection of First and Crawford streets, in southwest wall at south corner of brick store, 4 feet above ground; a Geological Survey bronze tablet stamped "122, 61, 1914"--                                             | 121. 972 |
| R-33, Studebaker, 0.25 mile southeast of, at mileage 497+, on northwest end of concrete culvert 497-F, southwest of tracks, red metal disk-----                                                                                                | 104. 294 |

|                                                                                                                                                                                                          | Feet    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| S-33, Norwalk, 0.6 mile southeast of station, 50 meters northeast of track, on southwest side of concrete highway bridge at level of roadway, opposite point of Southern Pacific siding; red metal disk. | 94. 203 |
| T-33, Carmenita, 1 mile southeast of, just southeast of road crossing; on north corner of concrete culvert 502-D; Geological Survey bronze tablet stamped "62, 1914, 63"-----                            | 61. 644 |
| Florence, Florence Avenue railroad crossing, 15 feet east of railroad; north end of concrete culvert marked "U. S. B. M."-----                                                                           | 155. 65 |
| Florence station, top of second concrete pier from northwest corner of Pacific Vegetable Co. warehouse; aluminum tag-----                                                                                | 133. 53 |
| Florence, 2.2 miles southeast of, on northwest pier of steel bridge; chiseled cross marked "U. S. B. M."-----                                                                                            | 128. 15 |
| Cudahy, 60 feet west of station, on northeast corner of concrete culvert; chiseled cross marked "U. S. B. M."-----                                                                                       | 115. 74 |
| Vineland, 400 feet southeast of station, 50 feet south of track; point on southeast foundation of power tower-----                                                                                       | 109. 62 |
| Downey, 1 mile northwest of, in base of railroad signboard; spike-----                                                                                                                                   | 113. 78 |
| Downey, 500 feet south of station, point at southwest corner of concrete foundation of bell signal-----                                                                                                  | 117. 04 |
| Downey, 1.5 miles southeast of, at road crossing, on north end of concrete culvert 496-I; chiseled cross, marked "U. S. B. M."-----                                                                      | 109. 48 |
| Studebaker, 0.25 mile southeast of, on southeast corner of concrete culvert 497-F; chiseled cross, marked "U. S. B. M."-----                                                                             | 104. 28 |
| Norwalk, 0.2 mile east of station, 50 feet north of railroad, in center of south end of concrete highway culvert; bronze tablet stamped "96, 1914, 62"-----                                              | 96. 119 |
| Norwalk, 1 mile southeast of, at north and south road crossing; on north end of concrete culvert 499-C; at chiseled cross marked "U. S. B. M."-----                                                      | 84. 25  |
| Carmenita, 0.2 mile southeast of, on north end of concrete culvert 501-B; chiseled cross, marked "U. S. B. M."-----                                                                                      | 68. 50  |
| Los Angeles-Orange county line, about 500 feet southeast of, on north end of concrete culvert 503-E; chiseled cross, marked "U. S. B. M."-----                                                           | 64. 47  |

Primary leveling by C. W. H. Nessler in 1923

From south border of Sawtelle 6' quadrangle along highways south and west to  
Playa del Rey, thence northwest to Santa Monica

|                                                                                                                                                                                                                                                          |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Playa del Rey, 3 miles northeast of, at car stop known as Cypress Grove, 20 feet south of center of east-bound Del Rey Pacific Electric track, on east edge of Ballona Road, in an 8 by 8 by 30-inch concrete post; bronze tablet stamped "9, 1922"----- | 29. 541 |
| Playa del Rey, 2 miles northeast of, 450 feet west of Alla railroad crossing and station; spike in base of trolley pole, painted "U. S. B. M. 13"-----                                                                                                   | 12. 28  |
| Playa del Rey, 1 mile east of; spike in base of trolley pole 14-6, painted "U. S. 9 B. M."-----                                                                                                                                                          | 8. 66   |
| Playa del Rey, 150 feet south of Pacific Electric substation 41, on south side of Redondo road, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "10, 1922"-----                                                                             | 13. 163 |
| Reference mark 14.9 feet southeast of p. b. m. 10, on curb stone; chiseled square-----                                                                                                                                                                   | 13. 73  |
| Playa del Rey, 1.2 miles north of, 1.4 miles south of Venice, at Trolley way and 45th Place; spike in base of trolley pole, painted "U. S. 16 B. M."-----                                                                                                | 15. 12  |

Feet

|                                                                                                                                                                                                                                                               |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Venice, 2,100 feet south of Pacific Electric passenger station, 1,400 feet north of Florence Nightingale school, on Trolley way, one pole north of Avenue 27; spike in base of trolley pole, painted "U. S. 16 B. M."-----                                    | 15. 54   |
| Venice, 1,500 feet south of Pacific Electric passenger station, at crossing of Virginia Ave. and Trolley way, 10 feet east of north-bound track, on south edge of Virginia Ave., in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "11, 1922"----- | 14. 718  |
| From point near southeast corner of Sawtelle quadrangle southwest into Venice 6' quadrangle                                                                                                                                                                   |          |
| Culver Junction, 2 miles west of; spike in base of trolley pole, painted "U. S. 45 B. M."-----                                                                                                                                                                | 44. 91   |
| Reference mark, 27.41 feet north of bench mark 9, 1922, in base of trolley pole; spike-----                                                                                                                                                                   | 29. 59   |
| From Playa del Rey along highways southeast to El Segundo, thence east and northeast along Santa Fe Ry. to Western Ave. crossing, thence along highways east, south, and east to Compton                                                                      |          |
| Playa del Rey, 150 feet south of Pacific Electric substation 41, on south side of Redondo road, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "10, 1922"-----                                                                                  | 13. 163  |
| Playa del Rey, 0.8 mile south of, on east side of Coast Boulevard; spike in base of telephone pole, painted "U. S. 80 B. M."-----                                                                                                                             | 79. 88   |
| Playa del Rey, 1.6 miles south of, 2.2 miles north of El Segundo, on south side of Coast Boulevard; spike in base of telephone pole, painted "U. S. 119 B. M."-----                                                                                           | 118. 96  |
| El Segundo, at north edge of city limits, junction of Coast Boulevard and Collingwood Street, in northwest corner of streets; spike in base of telephone pole, painted "U. S. 105, B. M."-----                                                                | 105. 00  |
| Reference mark, 144.5 feet west of bronze tablet No. 14, center of Main St. and Grand Ave., in north side of concrete signpost, in light pole; chiseled cross-----                                                                                            | 108. 08  |
| El Segundo, 192 feet east of El Segundo State Bank, 108 feet east from end of trolley track, 10 feet north of track, opposite south entrance to El Segundo garage, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "14, 1922"-----               | 104. 820 |
| El Segundo, 1 mile east of, along car track from El Segundo to Los Angeles, at Grand Ave. crossing; spike in base of trolley pole, painted "U. S. 115 B. M."-----                                                                                             | 114. 95  |
| El Segundo, 1 mile east by 1 mile north of, at intersection of Collingwood and Arizona streets, in southeast corner of streets; spike in base of eucalyptus tree, painted "U. S 120 B. M."-----                                                               | 119. 50  |
| El Segundo, 2 miles east by 1 mile north of, at crossing of Collingwood St. and Santa Fe Ry., 500 feet south of milepost 13; spike in base of telegraph pole, painted "U. S. 94, B. M."-----                                                                  | 93. 52   |
| El Segundo, 2 miles east by 2 miles north of, 2.2 miles southwest of Inglewood, 540 feet south of milepost 12, on east edge of Santa Fe Ry. right of way; spike in base of telegraph pole, painted "U. S. 94, B. M."-----                                     | 93. 77   |
| Inglewood, 1.2 miles southwest of, 2,100 feet north of Orange St., 540 feet southwest of milepost 11, on east edge of Santa Fe Ry. right of way, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "15, 1922"-----                                 | 103. 040 |

|                                                                                                                                                                                                                                                                                                        | Feet     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Inglewood, 0.4 mile west of, 320 feet west of Cedar Ave. crossing, 65 feet east of switch head, on south side of Santa Fe Ry. track, spike in base of telegraph pole, painted "U. S. 112 B. M."-----                                                                                                   | 111. 21  |
| Reference mark, 30.5 feet west of bench mark No. 16, 1922, on east edge of concrete sidewalk leading to section house; chiseled cross-----                                                                                                                                                             | 114. 87  |
| Inglewood, 130 feet west of Santa Fe Ry. passenger station, 60 feet north of main-line track, at southeast corner of fence around section house, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "16, 1922"-----                                                                          | 115. 328 |
| Inglewood, 1 mile northeast of, at Sentinela Ave. crossing on Santa Fe Ry., 400 feet west of milepost 9, on east curb of street, 20 feet south of Santa Fe track; chiseled cross, painted "U. S. 154 B. M."-----                                                                                       | 153. 27  |
| Florence Ave. railroad crossing, top of east end of guard rail-----                                                                                                                                                                                                                                    | 178. 05  |
| Hyde Park, 1 block east of signboard, 2.1 miles northeast of Inglewood, on southwest end of concrete street culvert, 50 feet west of railroad culvert C-8; chiseled cross, U. S. 158 B. M. painted on abutment-----                                                                                    | 157. 97  |
| Hyde Park, 1 mile northeast of, on north side of Santa Fe Ry. track, 1 pole west of milepost 7; spike in base of telegraph pole, painted "U. S. 137 B. M."-----                                                                                                                                        | 136. 78  |
| Reference mark, 50 feet south of bench mark 17, 1922, in base of power pole 1495.03 E, spike-----                                                                                                                                                                                                      | 137. 21  |
| Hyde Park, 1.6 miles northeast of, at crossing of Western Ave. and Santa Fe track, on east edge of Western Ave. and north edge of railroad right of way, 13 feet north of center of track, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "17, 1922."-----                               | 137. 011 |
| South Vermont Ave. crossing with Santa Fe Ry., 12 feet north of track; chiseled cross on west curb, painted "U. S. 146. B. M."-----                                                                                                                                                                    | 145. 50  |
| South Figueroa St. crossing with Santa Fe Ry., 700 feet east of Slauson siding, 22 feet south of track, on northeast corner of intersection; chiseled cross on curbstone, painted "U. S. 153 B. M."-----                                                                                               | 152. 22  |
| Reference mark, 17.2 feet south of bench mark 18, 1922, in southwest corner of South Main St. and Slauson Ave., on curb; chiseled cross-----                                                                                                                                                           | 158. 41  |
| Intersection of South Main St. and Slauson Ave., in northwest corner of streets, 20 feet west of west curb line of South Main St. and 1½ feet north of north curb line of Slauson Ave., 15 feet south of Santa Fe track, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped, "18, 1922"----- | 158.546  |
| Intersection of South Main and East 69th streets, in southeast corner of streets, opposite fire hydrant; chiseled cross on curb, painted "U. S. 143. B. M."-----                                                                                                                                       | 142. 52  |
| Intersection of South Main and West 82d streets, in southwest corner of streets; chiseled cross on curb, painted "U. S. 137 B. M."-----                                                                                                                                                                | 136. 58  |
| Intersection of South Main and West 91st streets, in southwest corner of streets, opposite fire hydrant; chiseled cross on curb, painted "U. S. 127 B. M."-----                                                                                                                                        | 126. 76  |
| Intersection of South Main and 108th streets, in southeast corner of streets, opposite Harbor Boulevard garage, 1½ feet east of east curb line of South Main St. and 10.5 feet south of south curb line of 108th St., in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "19, 1922"-----     | 123. 754 |
| Reference mark, 7.8 feet north of bench mark 19, 1922, in northeast corner of South Main and 108th streets; chiseled cross-----                                                                                                                                                                        | 123. 48  |



|                                                                                                                                                                                                                                                           | Feet    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| South Park Gardens, 200 feet east of Pacific Electric station, in southeast corner of South Park and Victoria streets; chiseled cross on curb, painted "U. S. 112, B. M."-----                                                                            | 111. 80 |
| Long Beach Bvd. car stop, at crossing of South Compton Ave. and Pacific Electric line, on north side of tracks, opposite passenger shed; spike in base of telegraph pole, painted "U. S. 101 B. M."-----                                                  | 100. 84 |
| Compton, 2¾ miles north by a quarter of a mile west of, a quarter of a mile west of Southern Pacific R. R., in the south part of Watts, on south side of John St., where street jogs 50 feet south; chiseled cross on curb, painted "U. S. 92 B. M."----- | 91. 85  |
| Lynwood, on Southern Pacific R. R., opposite signboard, top of rail---                                                                                                                                                                                    | 90. 0   |

## From El Segundo southeast along highways to Wilmington

|                                                                                                                                                                                                                                                                                          |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| El Segundo, 192 feet east of El Segundo State Bank, 108 feet east from end of trolley track, 10 feet north of track, opposite south entrance to El Segundo garage, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "14, 1922"-----                                          | 104. 820 |
| El Segundo, 1 mile west from center of town, at Standard Oil wharf and salt-water pumping station, 50 feet west of Redondo car tracks; chiseled cross on concrete retaining wall, painted "U. S. 24. B. M."-----                                                                         | 23. 22   |
| Pecks Beach, 0.8 mile northwest of Manhattan Beach, opposite beach dance hall, on east side of Redondo car tracks; spike in base of trolley pole, painted "U. S. 27. B. M."-----                                                                                                         | 26. 43   |
| Reference mark, 23.6 feet north of bench mark 20, 1922; chiseled cross-----                                                                                                                                                                                                              | 23. 80   |
| Manhattan Beach, on south edge of Center St., 75 feet east from pier abutment, 18 feet east of north-bound car track, 2 feet west of the Strand cement railing, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "20, 1922"-----                                             | 24. 090  |
| Hermosa Beach, 180 feet south of Pacific Electric Hermosa substation 42; spike in base of trolley pole, painted "U. S. 25 B. M."-----                                                                                                                                                    | 24. 34   |
| Hermosa Beach, in front of City Hall building, opposite entrance to Chamber of Commerce; chiseled cross on curbstone-----                                                                                                                                                                | 14. 07   |
| Hermosa Beach, in southeast corner of Second St. and Hermosa Ave.; chiseled cross on curbstone, painted "U. S. 14. B. M."-----                                                                                                                                                           | 13. 20   |
| Reference mark, 18 feet north of bench mark 21, 1922, on concrete retaining wall; chiseled cross-----                                                                                                                                                                                    | 19. 04   |
| Redondo Beach, 108 feet north of Santa Fe Ry. passenger station, on city property 25 feet north of city flagpole, on east side of El Paso St., 30 feet east of Santa Fe tracks, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "21, 1922"-----                             | 19. 481  |
| Redondo Beach, 200 feet south from southwest corner of old Redondo Hotel, on north edge of Ainsworth Court, at top of cement steps leading to ocean, near base of north concrete railing post, set in cement sidewalk; a brass disk marked "City of Redondo Beach bench mark 46.48"----- | 44. 577  |
| Redondo Beach, 1 mile south of, on west edge of esplanade; chiseled square on corner of guard post, painted "U. S. 54, B. M."-----                                                                                                                                                       | 53. 17   |
| Redondo Beach, 2 miles southeast of, on south edge of Redondo to Wilmington highway, at southwest end of railing; spike in guard-rail post, marked "U. S. 111 B. M."-----                                                                                                                | 110. 31  |

|                                                                                                                                                                                                                                                       | Feet    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Reference mark, 50 feet north of bench mark, on west side of Redondo-Wilmington road, in base of culvert guard-rail post; spike-----                                                                                                                  | 115.88  |
| Redondo Beach, 3.4 miles southeast of, on west edge of Redondo to Wilmington highway, 1 foot from fence and 50 feet east of a small highway culvert, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "22, 1922"-----                     | 119.039 |
| Redondo Beach, 4.2 miles southeast of, at junction of Redondo to Wilmington highway with T road north; spike in base of telephone pole, painted "U. S. 104 B. M."-----                                                                                | 103.67  |
| Redondo Beach, 5.3 miles southeast of, on south edge of Redondo to Wilmington highway; spike in base of telephone pole, painted "U. S. 138 B. M."-----                                                                                                | 137.46  |
| Reference mark, 70 feet south of bench mark, in base of telegraph pole; track spike-----                                                                                                                                                              | 138.12  |
| Redondo Beach, 6.3 miles southeast of, 4.6 miles west of Wilmington, at junction of Redondo to Wilmington highway and Pennsylvania Ave., in northeast corner of streets, in an 8 by 8 by 30 inch concrete post; bronze tablet stamped "23, 1922"----- | 136.041 |
| Wilmington, 3.6 miles west of, in south corner of Governor Ave. and 258th St.; spike in base of telephone pole, painted "U. S. 82 B. M."-----                                                                                                         | 81.49   |
| Wilmington, 2.8 miles west of, at junction of Anaheim St. and San Pedro Boulevard, on southeast abutment of viaduct; chiseled square, U. S. 65 B. M. painted on guard rail-----                                                                       | 64.75   |
| Wilmington, in northeast corner of Harbor Boulevard and West B St., chiseled square on curb, painted "U. S. B. M. 12-4"-----                                                                                                                          | 12.33   |

Primary leveling by H. S. Senseney in 1923

From point near southeast corner of Hollywood quadrangle along highways south to Wilmington

|                                                                                                                                                                         |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Los Angeles, 30 feet south by 15 feet west of intersection of Western and Florence avenues, center of sewer trap; painted square, marked "U. S. B. M. 153.3"-----       | 153.11  |
| Los Angeles, 35 feet east of southeast corner of Western and Manchester avenues, in curb; chiseled square, marked "U. S. B. M. 188.5"-----                              | 188.33  |
| Los Angeles, at northeast corner of Western Ave. and 99th St., in root of eucalyptus tree; spike, marked "U. S. B. M. 237.6"-----                                       | 237.42  |
| Los Angeles, 35 feet north by 25 feet east of intersection of Western Ave., and 99th St., in concrete post; bronze tablet stamped "A3, 1922"-----                       | 237.437 |
| Los Angeles, 210 feet north of intersection of Western and Bellevue avenues, on east side of Western Ave., in culvert; chiseled square, marked "U. S. B. M. 202.7"----- | 202.56  |
| Los Angeles, at southeast corner of Western and Ballona avenues, in culvert; chiseled square, marked "U. S. B. M. 86.6"-----                                            | 86.44   |
| Los Angeles, at southeast corner of Western and Rosecrans avenues, in culvert; chiseled square, marked "U. S. B. M. 48.7"-----                                          | 48.50   |
| Los Angeles, 65 feet south by 20 feet east of intersection of Western and Rosecrans avenues, in concrete post; bronze tablet stamped "A 4, 1922"-----                   | 47.070  |
| Los Angeles, on west side of Western Ave. at Los Angeles St., in root of pepper tree; spike, marked "U. S. B. M. 45.9"-----                                             | 45.75   |

Feet

|                                                                                                                                                                                                                                                           |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Los Angeles, at northeast corner of Western Ave. and Strawberry St., at northwest corner of small bridge, in top of 10 by 10 inch post; nail and washer, marked "U. S. B. M. 28.4"-----                                                                   | 28. 20   |
| Los Angeles, at northwest corner of Western Ave. and 190th St., at east entrance of Southern California Edison Co.'s power station, in southeast corner of concrete step; chiseled square, marked "U. S. B. M. 56.6"-----                                 | 56. 39   |
| Los Angeles, at northwest corner of Western Ave. and 190th St., 43 feet south of south entrance of Southern California Edison Co.'s power station, 4½ feet east of gate, on north side of fence, in concrete post; bronze tablet stamped "A 5, 1922"----- | 56. 546  |
| Los Angeles, on south side of Torrance Boulevard, 80 feet west of bend in Western Ave., about 600 feet east of overhead electric railroad crossing, in curb at sewer; chiseled square, marked "U. S. B. M. 35.2"-----                                     | 35. 06   |
| Los Angeles, at southwest corner of Torrance Boulevard and Normandie Ave., in base of telegraph pole; spike, marked "U. S. B. M. 40.4"-----                                                                                                               | 40. 24   |
| Los Angeles, at southeast corner of Normandie Ave. and Carson St., in base of telegraph pole; spike, marked "U. S. B. M. 48.4"-----                                                                                                                       | 48. 29   |
| Los Angeles, 40 feet north by 40 feet west of intersection of Normandie Ave. and Carson St., in concrete post; bronze tablet stamped "A 6, 1922"-----                                                                                                     | 47. 053  |
| Los Angeles, at northwest corner of Normandie and Ocean avenues, in base of telephone pole; spike, marked "U. S. B. M. 47.5"-----                                                                                                                         | 47. 36   |
| Los Angeles, in southwest corner of road forks, about 0.5 mile west of Harbor Boulevard and Lincoln schoolhouse, about 0.7 mile north of Weston St., in base of telephone pole; spike, marked "U. S. B. M. 17.4"-----                                     | 17. 25   |
| Los Angeles, 0.4 mile west of Harbor Boulevard, on west side of north and south road, in line with south edge of Weston St., at the feet of the man in Hood tires sign, in stump; spike, marked "U. S. B. M. 39.0"-----                                   | 38. 85   |
| Los Angeles, at northeast corner of Harbor Boulevard and Weston St., in base of telephone pole; spike, marked "U. S. B. M. 44.1"-----                                                                                                                     | 44. 00   |
| Los Angeles, 45 feet north by 40 feet east of intersection of Harbor Boulevard and Weston St., in concrete post; bronze tablet stamped "A 7, 1922"-----                                                                                                   | 43. 823  |
| Wilmington, at southeast corner of Harbor Boulevard and K St., in curb; chiseled square, marked "U. S. B. M. 29.8"-----                                                                                                                                   | 29. 67   |
| From Western Ave. east along Rosecrans Ave. to Compton                                                                                                                                                                                                    |          |
| Los Angeles, on north side of Rosecrans Ave., 120 feet east of intersection of Vermont Ave., in base of telephone pole; spike, marked "U. S. B. M. 64.0"-----                                                                                             | 63. 81   |
| Los Angeles, at southeast corner of Rosecrans Ave. and Harbor Boulevard, in concrete culvert; chiseled square, marked "U. S. B. M. 114.6"-----                                                                                                            | 114. 37  |
| Los Angeles, at southeast corner of Rosecrans and Central avenues, in root of stump; spike, marked "U. S. B. M. 103.4"-----                                                                                                                               | 103. 18  |
| Los Angeles, 35 feet south by 20 feet west of intersection of Rosecrans and Central avenues, in concrete post; bronze tablet stamped "A 9, 1922"-----                                                                                                     | 103. 884 |
| Compton, at northeast corner of Main St. and Compton Ave., in base of telephone pole; spike, marked "U. S. B. M. 75.3"-----                                                                                                                               | 75. 09   |

From Western Ave. west along Rosecrans Ave. to Redondo Ave., thence north to point 2 miles east of El Segundo

|                                                                                                                                                          | Feet   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Los Angeles, at northwest corner of Rosecrans and Cypress avenues, in west end of concrete culvert; chiseled square, marked "U. S. B. M. 49.4"-----      | 49.17  |
| Los Angeles, at southeast corner of Rosecrans and Prairie avenues, in base of telephone pole: spike, marked "U. S. B. M. 56.7"-----                      | 56.48  |
| Los Angeles, on west side of Inglewood Ave., 60 feet north of Rosecrans Ave., in stump; spike, marked "U. S. B. M. 72.7"-----                            | 72.53  |
| Los Angeles, 20 feet north by 40 feet west of intersection of Rosecrans and Inglewood avenues, in concrete post; bronze tablet, stamped "A 8, 1922"----- | 71.304 |
| Los Angeles, at northwest corner of Rosecrans Ave. and Redondo Boulevard, in concrete culvert; chiseled square, marked "U. S. B. M. 80.4"-----           | 80.22  |
| Los Angeles, at southeast corner of Redondo Boulevard and Ballona Ave., in root of eucalyptus tree; spike, marked "U. S. B. M. 93.2"-----                | 93.00  |

From Rosecrans Ave. south along Redondo Ave. to Hermosa Beach

|                                                                                                                                                                                                   |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Manhattan Beach, at southwest corner of Redondo Boulevard and Center St., in southeast end of concrete foundation of pump of service station; chiseled square, marked "U. S. B. M. 101.9"-----    | 101.71  |
| Manhattan Beach, intersection of Redondo Boulevard and Gould Ave.; top of traffic button-----                                                                                                     | 112.45  |
| Manhattan Beach, 35 feet south of intersection of Redondo Boulevard and Gould Ave., 1.6 feet south of curb, 3.2 feet west of lamp-post, in concrete post; bronze tablet stamped "A 22, 1923"----- | 112.732 |
| Hermosa Beach, at northeast corner of Pier Ave. and Corona St., in curb; chiseled square, marked "U. S. B. M. 153.9"-----                                                                         | 153.74  |
| Hermosa Beach, intersection of Second St. and Camino Real; top of traffic button-----                                                                                                             | 87.64   |

From Thenard Junction along highways east and north to point 4 miles south by 1.5 miles west of Artesia

|                                                                                                                                                                            |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| U. S. Coast and Geodetic Survey bench mark "G 33"-----                                                                                                                     | 32.812 |
| Long Beach, 1 mile west of, on north side of Anaheim St., 80 feet west of Southern Pacific R. R. crossing, in base of telephone pole; spike, marked "U. S. B. M. 8.7"----- | 8.76   |
| Long Beach, on north side of Anaheim St., opposite southwest corner of Mountain View Dairy, in curb; chiseled square, marked "U. S. B. M. 10.4"-----                       | 10.41  |
| Long Beach, 25 feet north by 50 feet west of intersection of Anaheim St. and Atlantic Ave., in concrete post; bronze tablet stamped "A 10, 1923"-----                      | 36.259 |
| Long Beach, at southwest corner of Anaheim St. and Olive Ave., 3 feet west of telegraph pole, in curb; chiseled square-----                                                | 35.14  |
| Long Beach, at southeast corner of Anaheim and Cherry streets, at telephone pole in curb; chiseled square, marked "U. S. B. M. 30.2"-----                                  | 30.32  |
| Long Beach, at southeast corner of Anaheim St. and Loma Ave., at fire hydrant, in curb; chiseled square, marked "U. S. B. M. 38.6"-----                                    | 38.73  |

Feet

|                                                                                                                                                                                                                  |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Long Beach, half a mile east of, on north side of Anaheim St., 40 feet east of private road north, opposite Long Beach Golf Club, in root of pepper tree; copper nail and washer, marked "U. S. B. M. 57.9"----- | 58. 06  |
| Long Beach, 1 mile east of, on north side of Anaheim St., 40 feet west of private road north to Bryant ranch, in concrete post; bronze tablet stamped "A 11, 1923"-----                                          | 54. 828 |
| Long Beach, 2 miles east of, on south side of Anaheim St., 70 feet west of Palos Verde Ave., in root of pepper tree; copper nail and washer, marked "U. S. B. M. 60.0"-----                                      | 60. 15  |
| Long Beach, 3 miles northeast of, at northeast corner of crossroads at Bixby schoolhouse, in base of telephone pole; spike, marked "U. S. B. M. 14.9"-----                                                       | 15. 06  |
| Artesia, 4 miles south by 1½ miles west of, 3½ miles east of Signal Hill, at southeast corner of Palos Verde and Los Alamitos roads, in base of telephone pole; spike, marked "U. S. B. M. 23.2"-----            | 23. 32  |

## From Norwalk west along highways to Compton

|                                                                                                                                                                                                        |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Norwalk, at southwest corner of San Diego road and La Mirada Ave., in base of telephone pole; spike, marked "U. S. B. M. 86.8"-----                                                                    | 86. 83  |
| Norwalk, 0.5 mile south by 1.5 miles west of, at southwest corner of La Mirada and Gallina avenues, in base of telephone pole; spike, marked "U. S. B. M. 85.6"-----                                   | 85. 62  |
| San Gabriel River; floor of bridge-----                                                                                                                                                                | 92. 5   |
| San Gabriel River; surface of water Dec. 18, 1922, at 1.30 p. m.-----                                                                                                                                  | 82. 3   |
| Norwalk, 0.5 mile south by 2.5 miles west of, 150 feet south of intersection of La Mirada and Woodruff avenues, on west side of road, in base of telephone pole; spike, marked "U. S. B. M. 85.3"----- | 85. 29  |
| Norwalk, 0.5 mile south by 2.5 miles west of, 35 feet south by 25 feet east of intersection of La Mirada and Woodruff avenues, in concrete post; bronze tablet stamped "A 10, 1922"-----               | 85. 163 |
| Norwalk, 1 mile south by 2½ miles west of, 2½ miles east of Clearwater, at southwest corner of Center Boulevard and Woodruff Ave., in base of telephone pole; spike, marked "U. S. B. M. 74"-----      | 74. 76  |
| Clearwater, 1½ miles east of, at southwest corner of Center Boulevard and Clark Ave., in concrete culvert; chiseled square, marked "U. S. B. M. 70.9"-----                                             | 70. 90  |
| Clearwater, half a mile east of, at northwest corner of Center Boulevard and New York Ave., in concrete culvert; chiseled square, marked "U. S. B. M. 68.8"-----                                       | 68. 80  |
| Clearwater, at southwest corner of Center Boulevard and Ocean Ave., in northwest corner of concrete step of Literary Hall; chiseled square-----                                                        | 70. 30  |
| Clearwater, at southwest corner of Center Boulevard and Ocean Ave., 5½ feet west of northeast corner of Literary Hall, in concrete post; bronze tablet stamped "A 11, 1922"-----                       | 69. 576 |
| Clearwater, intersection of Ocean Ave. and Washington Boulevard; top of traffic button-----                                                                                                            | 74. 8   |
| Clearwater, half a mile west of, at northeast corner of Washington Boulevard and Michigan Ave., in concrete culvert; chiseled square, marked "U. S. B. M. 71.0"-----                                   | 70. 96  |
| Los Angeles River; floor of bridge-----                                                                                                                                                                | 72. 3   |
| Los Angeles River; surface of water Dec. 19, 1922, at noon-----                                                                                                                                        | 62. 1   |

|                                                                                                                                                                                                                                                     | Feet   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Clearwater, 1½ miles west of, 1 mile east of Compton, 300 feet west of west end of bridge over Los Angeles River, at northeast corner of Washington Boulevard and Gibson Ave., in concrete culvert; chiseled square, marked "U. S. B. M. 69.7"----- | 69.58  |
| Compton, at southeast corner of Long Beach Boulevard and Main St., in northeast end of concrete foundation of pump at Service station, chiseled square (not marked)-----                                                                            | 69.92  |
| From point near northeast corner of Clearwater 6' quadrangle along highways south and west near border of that quadrangle to Cerritos                                                                                                               |        |
| NOTE.—The first 3 miles of this line was releveled on account of an error of 0.3 foot distributed therein.                                                                                                                                          |        |
| San Gabriel River; floor of bridge-----                                                                                                                                                                                                             | 86.7   |
| San Gabriel River; surface of water Jan. 3, 1923, at 9.30 a. m.-----                                                                                                                                                                                | 72.7   |
| Artesia, 1½ miles north by 1 mile west of, at northwest corner of Center Boulevard and Gallina Ave., in concrete culvert; chiseled square, marked "U. S. B. M. 76.4"-----                                                                           | 76.55  |
| Artesia, half a mile north by 1 mile west of, at northwest corner of Gallina and Artesia avenues, in concrete culvert; chiseled square, marked "U. S. B. M. 63.0"-----                                                                              | 63.19  |
| Artesia, 1 mile west by half a mile south of, at northwest corner of Gallina Ave. and First St., in root of tree; copper nail and washer, marked "U. S. B. M. 52.9"-----                                                                            | 53.10  |
| Artesia, 1 mile west by half a mile south of, 20 feet north by 20 feet west of intersection of Gallina Ave. and First St., in concrete post; bronze tablet stamped "A 1, 1923"-----                                                                 | 53.144 |
| San Gabriel River; floor of bridge-----                                                                                                                                                                                                             | 59.9   |
| San Gabriel River; surface of water Jan. 3, 1923, at 2 p. m.-----                                                                                                                                                                                   | 53.3   |
| Artesia, 1½ miles west by half a mile south of, at northwest corner of Palos Verdes Ave. and First St., in base of telephone pole; spike marked "U. S. B. M. 53.1"-----                                                                             | 53.27  |
| Artesia, 1½ miles west by 1½ miles south of, on Palo Verde road, 1 mile north of Bixby road, at southwest corner of T road west, in base of fence post; spike, marked "U. S. B. M. 48.0"-----                                                       | 48.13  |
| Artesia, 2½ miles south by 1½ miles west of, 25 feet south by 25 feet west of intersection of Bixby and Palos Verdes roads, in concrete post; bronze tablet stamped "A 2, 1923" (no reference mark)-----                                            | 37.107 |
| Artesia, 4 miles south by 1½ miles west of, 3½ miles east of Signal Hill, at southeast corner of Palos Verdes and Los Alamitos roads, in base of telephone pole; spike, marked "U. S. B. M. 23.2"-----                                              | 23.32  |
| 230 feet south of bench mark above, is spike in telephone pole, marked "U. S. B. M. 21.9"-----                                                                                                                                                      | 21.97  |
| Signal Hill, 2½ miles east of, on Los Alamitos road, at northwest corner of road north to Bellflower, in base of telephone pole; spike, marked "U. S. B. M. 23.7"-----                                                                              | 23.81  |
| Signal Hill, 1¼ miles east of, on Los Alamitos road, 50 feet east by 25 feet south of T road south, in concrete post; bronze tablet stamped "A 3, 1923"-----                                                                                        | 28.847 |
| 95 feet west of bench mark A 3, at southeast corner of bridge; top of bolthead painted white-----                                                                                                                                                   | 30.74  |
| Signal Hill, 0.5 mile east of, on south side of Los Alamitos road, at bend in road, in base of telephone pole; spike, marked "U. S. B. M. 51.0"-----                                                                                                | 51.11  |

Feet

|                                                                                                                                                                                       |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Signal Hill, on west side of Cherry St., 120 feet north of Union Pacific R. R. crossing, in base of telephone pole; spike, marked "U. S. B. M. 60.8"-----                             | 60.91  |
| Bixby Heights, at northeast corner of Long Beach Boulevard and Wardlow road, 17.9 feet southeast of telephone pole, in curb; chiseled square-----                                     | 91.10  |
| Bixby Heights, 20 feet north by 50 feet east of intersection of Long Beach Boulevard and Wardlow road, 1 foot north of curb, in concrete post; bronze tablet stamped "A 4, 1923"----- | 91.070 |
| Bixby Heights, at Long Beach Boulevard and American Ave., opposite south end of service station, in curb; chiseled square, marked "U. S. B. M. 111.4"-----                            | 111.54 |
| Cerritos, .1 mile east of, at northwest corner of bridge over Los Angeles River; top of bolthead painted white, marked "U. S. B. M. 40.8"-----                                        | 40.97  |
| Cerritos; surface of water under bridge, Jan. 6, 1923, 10 a. m.-----                                                                                                                  | 29.8   |
| Cerritos, 35 feet north of northwest corner of Dominguez schoolhouse, in root of tree; copper nail and washer, marked "U. S. B. M. 33.2"-----                                         | 33.39  |

From Carmenita west along highways to point 1 mile west of Artesia. Lev-  
eled twice for first 3.6 miles

|                                                                                                                                                                                                                    |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Artesia, half a mile north by 3 miles east of, at northwest corner of Artesia Ave. and north and south road, at Los Angeles-Orange county corner, in base of telegraph pole; spike, marked "U. S. B. M. 57.1"----- | 57.07  |
| Artesia, half mile north by 2 miles east of, at southwest corner of Artesia and Carmenita avenues, in top of stump; copper nail and washer, marked "U. S. B. M. 62.2"-----                                         | 62.15  |
| Artesia, half a mile south by 2 miles east of, 45 feet north by 25 feet east of intersection of Carmenita Ave. and First St., in concrete post; bronze tablet stamped "A 5, 1923"-----                             | 46.635 |
| Artesia, 360 feet west of bench mark A 5, on north side of road, in top of eucalyptus stump; copper nail and washer.-----                                                                                          | 47.85  |
| Artesia, half a mile south by 1 mile east of, at northeast corner of Bloomfield Ave. and First St., in base of telephone pole; spike, marked "U. S. B. M. 47.5"-----                                               | 47.34  |
| Artesia, at northwest corner of First and Main streets, in curb; chiseled square, marked "U. S. B. M. 48.6"-----                                                                                                   | 48.86  |

From Norwalk south along highways to point 1 mile east of Artesia

|                                                                                                                                                                              |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Artesia, 1½ miles north by 1 mile east of, at northwest corner of Bloomfield Ave. and Center Boulevard, in concrete culvert; chiseled square, marked "U. S. B. M. 73.3"----- | 73.17 |
| Artesia, half a mile north by 1 mile east of, at northwest corner of Bloomfield Ave. and Artesia St., in base of telegraph pole; spike, marked "U. S. B. M. 58.8"-----       | 58.74 |

From point 1 mile east of Artesia along highways south and west to point  
near southeast corner of Clearwater 6' quadrangle

|                                                                                                                                                                                       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Artesia, 1½ miles south by 1 mile east of, at southwest corner of Bloomfield Ave. and Anaheim St., in root of eucalyptus tree; copper nail and washer, marked "U. S. B. M. 44.0"----- | 43.89 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|

|                                                                                                                                                                                                           | Feet     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Artesia, 2½ miles south by 1 mile east of, 15 feet north by 30 feet west of intersection of Bloomfield and Lincoln avenues, in concrete post; bronze tablet, stamped "A 6, 1923"-----                     | 34. 625  |
| Reference mark, 40 feet north of bench mark A 6, in top of stump; copper nail and washer-----                                                                                                             | 35. 39   |
| Artesia, half a mile east by 2½ miles south of, at southwest corner of Artesia-Los Alamitos Boulevard and Lincoln Ave., in north end of curb; chiseled square, marked "U. S. B. M. 32.4"-----             | 32. 21   |
| Artesia, half a mile east by 3½ miles south of, half a mile north of Los Alamitos, at northwest corner of bridge over Coyote Creek; chiseled square, marked "U. S. B. M. 32.4"-----                       | 32. 16   |
| Los Alamitos, 0.8 mile west of, northwest corner of T road north, on southwest corner of wooden culvert; top of bolt-head painted white, marked "U. S. B. M. 24.5"-----                                   | 24. 23   |
| From Studebaker north along highways to northwest corner of Whittier 6' quadrangle                                                                                                                        |          |
| Studebaker, 1.1 miles north of, at northeast corner of T road east, about 0.1 mile south of San Gabriel River, in concrete culvert; chiseled square, marked "U. S. B. M. 122.7"-----                      | 122. 74  |
| Studebaker, 1.1 miles north by 0.5 mile east of, at northeast corner of Little Lake and Day and Orr roads, in base of telephone pole; spike, marked "U. S. B. M. 124.9"-----                              | 124. 94  |
| Studebaker, 2 miles north by 0.5 mile east of, at southeast corner of Telegraph and Day and Orr roads, in root of tree, copper nail and washer, marked "U. S. B. M. 136.8"-----                           | 136. 74  |
| San Gabriel River; floor of bridge over (surface of water Dec. 21, 1922, 126.0)-----                                                                                                                      | 143. 5   |
| Studebaker, 2½ miles north of, 1½ miles south of Rivera, on south side of Telegraph road at Passons Boulevard, in base of telegraph pole; spike, marked "U. S. B. M. 143.4"-----                          | 143. 37  |
| Studebaker, 2½ miles north of, 1½ miles south of Rivera, 65 feet north by 15 feet west of intersection of Telegraph road and Passons Boulevard, in concrete post; bronze tablet stamped "A 13, 1922"----- | 142. 739 |
| Rivera, on east side of Passons Boulevard, 40 feet south of Atchison, Topeka & Santa Fe Ry., in northwest corner of concrete irrigation ditch; chiseled square, marked "U. S. B. M. 157.7"-----           | 157. 70  |
| Rivera, 1 mile northeast of, on east side of Passons Boulevard, on south end of concrete irrigation ditch; chiseled square, marked "U. S. B. M. 165.7"-----                                               | 165. 66  |
| Rivera, 1½ miles northeast of, at northeast corner of crossroads at Ranchito, in concrete irrigation ditch; chiseled square, marked "U. S. B. M. 170.3"-----                                              | 170. 29  |
| Rivera, 1½ miles northeast of, at northwest corner of crossroads at Ranchito, 6 feet west of southeast corner of Pio Pico Woman's Club, in concrete post; bronze tablet stamped "A 14, 1922"-----         | 169. 560 |
| Ranchito, 0.7 mile northeast of, at northeast corner of Whittier and Passons boulevards, 6.3 feet north of south end of concrete irrigation ditch; chiseled square, marked "U. S. B. M. 181.3"-----       | 181. 37  |



From northwest corner of Whittier 6' quadrangle along highways southeast  
5.4 miles, thence south to La Mirada

|                                                                                                                                                                                                                                                         | Feet     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| San Gabriel River; water surface at 9 a. m., Jan. 10, 1923-----                                                                                                                                                                                         | 172. 2   |
| Whittier, 1 mile northwest of, at northwest corner of Whittier<br>Boulevard and Judson road, in curb; chiseled square, marked<br>"U. S. B. M. 178.7"-----                                                                                               | 178. 76  |
| Whittier, at northwest corner of Whittier Boulevard and Magnolia<br>St., in curb; chiseled square, marked "U. S. B. M. 236.9"-----                                                                                                                      | 237. 01  |
| Whittier, on south side of Whittier Boulevard, 80 feet east of<br>Kings Lane, in curb; chiseled square-----                                                                                                                                             | 214. 78  |
| Whittier, on south side of Whittier Boulevard, 15 feet east of Kings<br>Lane, in concrete post; bronze tablet stamped "A 7, 1923"-----                                                                                                                  | 215. 015 |
| Whittier, 1 mile southeast of, on north side of Whittier Boulevard,<br>210 feet east of Michigan Ave., at northwest corner of concrete<br>culvert; chiseled square, marked "U. S. B. M. 235.4"-----                                                     | 235. 53  |
| Whittier, 1.8 miles southeast of, at southeast corner of Whittier<br>Boulevard and Gunn road, at telephone pole, in curb; chiseled<br>square, marked "U. S. B. M. 265.9"-----                                                                           | 266. 08  |
| Whittier, 2.4 miles southwest of, on north side of Whittier Boulevard<br>at Colima road, in concrete base of property post; chiseled square-----                                                                                                        | 265. 14  |
| Whittier, 2.4 miles southeast of, on north side of Whittier Boulevard,<br>12 feet east of Colima road, in concrete post; bronze tablet<br>stamped "A 8, 1923"-----                                                                                      | 265. 594 |
| Whittier, 3.4 miles southeast of, at southwest corner of Colima road<br>and Mulberry St., in concrete base of electric warning signal;<br>chiseled square, marked "U. S. B. M. 1804"-----                                                               | 180. 61  |
| Whittier, 4.3 miles southeast of, 2.2 miles north of La Mirada, on<br>south side of La Mirada road at Colima road, on bank 5.7 feet<br>east of telephone pole, in concrete base of property corner; chiseled<br>square, marked "U. S. B. M. 193.9"----- | 194. 11  |
| La Mirada, 1½ miles north of, on Valley View Ave., at northwest<br>corner of crossroads, in base of telephone pole; spike, marked<br>"U.S.B.M. 119.0"-----                                                                                              | 119. 19  |
| La Mirada, 1½ miles north of, on Valley View Ave., 30 feet south by<br>25 feet west of intersection of crossroads, in concrete post; bronze<br>tablet stamped "A 9, 1923"-----                                                                          | 119. 765 |
| La Mirada, 1 mile north of, on Valley View Ave., at northwest corner<br>of T road west, in telephone pole; spike, marked "U. S. B. M. 96.1-----                                                                                                         | 96. 34   |
| La Mirada, 0.3 mile northwest of, at northeast corner of Norwalk-<br>La Mirada road and Valley View Ave., in concrete culvert; chiseled<br>square, marked "U. S. B. M. 96.4"-----                                                                       | 96. 64   |
| La Mirada, half a mile south of, 10 feet north by 23 feet east of<br>intersection of Center Boulevard and Valley View Ave., in north<br>edge of concrete road, in line with telegraph poles; chiseled square<br>marked "U. S. B. M. 67.8"-----          | 68. 10   |

#### Near Carmenita

|                                                                                                                                                                         |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| U. S. Coast and Geodetic Survey bench mark "S 33"-----                                                                                                                  | 94. 203 |
| Carmenita, half a mile northwest of, at northeast corner of Southern<br>Pacific R. R. culvert "500 E"; top of bolthead painted white,<br>marked "U. S. B. M. 77.5"----- | 77. 51  |

|                                                                                                                                                     |               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Carmenita, half a mile southeast of, in southeast corner of Southern Pacific R. R. culvert "501 B"; chiseled square, marked "U. S. B. M. 68.3"----- | Feet<br>68.42 |
| U. S. Coast and Geodetic Survey bench mark "T 33"-----                                                                                              | 61.644        |

**From point near Bellflower along highways west and south through Clearwater 6' quadrangle to Signal Hill**

|                                                                                                                                                                                                      |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Bellflower, 1.5 miles south by 0.5 mile west of, 1.5 miles east of Hynes pumping station, at southwest corner of crossroad, in telephone pole; railroad spike, marked "U. S. B. M. 54.2"-----        | 54.46  |
| Bellflower, 1.5 miles south by 2 miles west of, 100 feet southeast of southeast corner of Hynes pumping station, in telephone pole; railroad spike, marked "U. S. B. M. 50.2"-----                   | 50.49  |
| Bellflower, 1.5 miles south by 2 miles west of, 43 feet northeast of northeast corner of superintendent's office at Hynes pumping station, in concrete post; bronze tablet stamped "S. 50 1923"----- | 51.141 |
| Hynes, 2 miles south of, 150 feet west of Ocean Ave., on north side of highway, in pipe filled with concrete; top of nail, marked "U. S. B. M. 53.3"-----                                            | 53.63  |
| Signal Hill, 3.5 miles north of, at northwest corner of Cherry Ave. and Washington St., in concrete culvert; chiseled square, marked "U. S. B. M. 49.4"-----                                         | 49.76  |
| Signal Hill, 3 miles north of, on east side of Cherry Ave., at the "Downey-Whittier cut-off"; top of nail in concrete culvert, marked "U. S. B. M. 59.8"-----                                        | 60.12  |
| Signal Hill, 3 miles north of, on east side of Cherry Ave., 80 feet south of "Downey-Whittier cut-off," in concrete post; bronze tablet stamped "S 51 1923"-----                                     | 60.762 |
| Signal Hill, 2 miles north of, at southwest corner of Cherry Ave. and Bixby Road, in concrete culvert; chiseled square, marked "U. S. B. M. 64.6"-----                                               | 65.02  |

**From Signal Hill south along highways through Clearwater and Long Beach quadrangles to Long Beach**

|                                                                                                                                     |        |
|-------------------------------------------------------------------------------------------------------------------------------------|--------|
| Burnett, 75 feet north of station, west side of Union Pacific R. R. track, in base of warning signal; chiseled square-----          | 48.94  |
| Burnett, at northwest corner of building occupied by Burnett post office, in concrete post; bronze tablet stamped "S. 52 1923"----- | 49.011 |
| Long Beach, at northeast corner of State and California streets, at telephone pole, in curb; chiseled square-----                   | 26.39  |