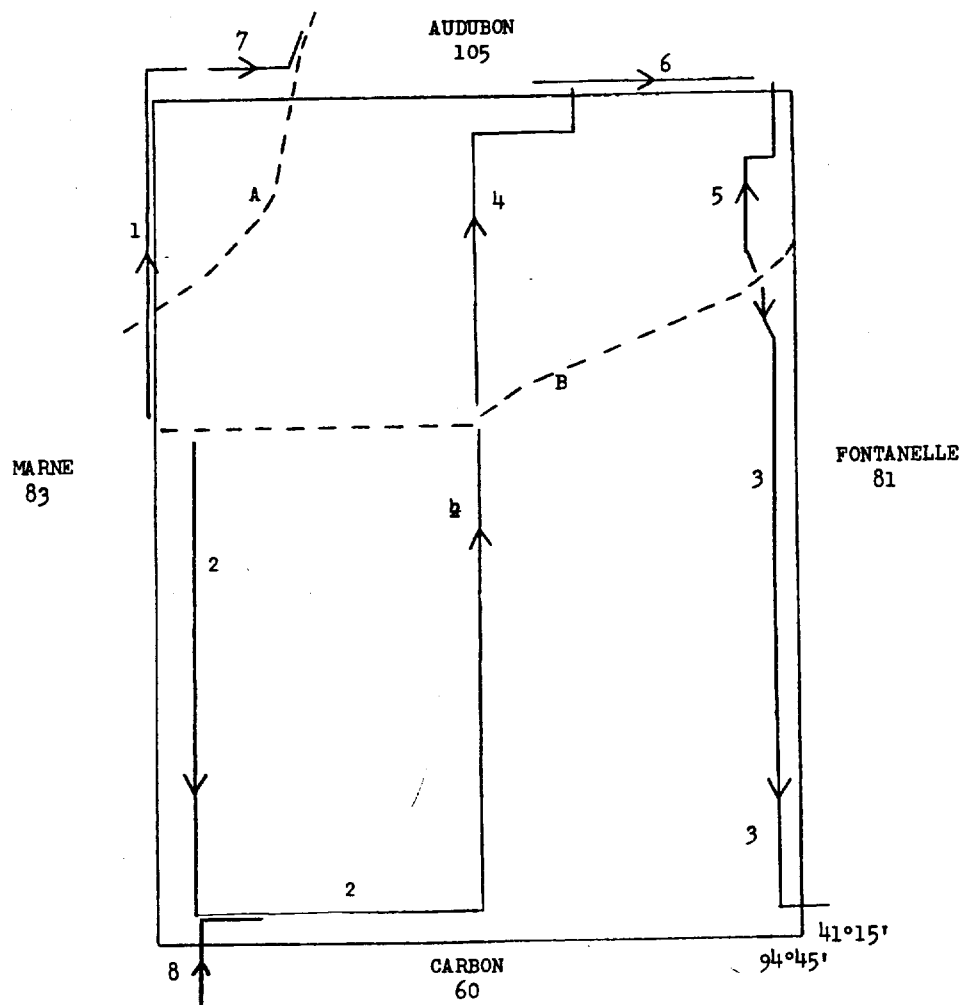


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41-094-34
ANITA QUADRANGLE
82 - IOWA
N4115-W9445/15
DIAGRAM NK 15-7
OMAHA

PR: ADP/LB/cb



A. Line No. 6
B. Line No. 19

82 C

LINE 1

FEET

P. J. Hohenberger, 1968; Book CV 2338

MARNE QUAD. - 83

- 1 30 0.0 At Atlantic, Cass County, on the Chicago, Rock Island & Pacific RR., in the N. brick wall of the station, 2 ft E. of the E. waiting room door, and 4 ft above the platform; USC&GS standard disk stamped "Q 99 1935" and set vertically 1163.305
- 31 1.0 UE 1163 A, about 1.0 mi N. along paved rd. from "BM" at a concrete bridge across Troublesome Creek, 17 ft E. and 0.8 ft higher than rd., on top, in center of NE. wingwall; a chiseled square 1163.96
- 32 1.4 UE 1153, about 1.4 mi N. along paved rd. from BM (Olive St.), 49 ft S., 60 ft W. and 1.8 ft lower than T-rd. E., 6.0 ft N. and 6.0 ft E. of NE. corner building for radio station KJAN, at extreme NE. corner of right-angle turn in sidewalk; a chiseled square 1153.72
- 33 2.4 UE 1161, about 2.4 mi N. along paved rd. and concrete rd. from BM, at a concrete bridge across Nishnabotna River, 18 ft E. and 0.5 ft higher than rd., on top, in center of SE. concrete wingwall; a chiseled square 1161.05
- 34 2.7 Atlantic, Cass County, 2.25 mi N. and 1.0 mi W. of the jct. of U. S. Hwys. 71 and 6 at; T. 77 N., R. 36 W., near the S. sixteenth cor. between secs. 28 and 29, 260 ft N., 49 ft E. and 4.1 ft lower than T-rd. W., 5.0 ft S. of a power pole, painted "BM", 1.5 ft W. of a right-of-way fence, 3.0 ft N. of a witness sign; a standard tablet crimped to the top of a copper rod, stamped "6 PJH 1968" 1152.751
- 35 3.9 UE 1 PJH A, about 1.2 mi N. along concrete rd. from BM, at center of T-rd. E., on top of small stone set in concrete at center of a chiseled cross 1259.74
- 36 4.4 UE 1 PJH B, about 1.7 mi N. along concrete rd. from BM, 22 ft S., 33 ft W. and 3.4 ft lower than T-rd. W. at offset crossroads, on top of S. end of a 2.5 ft cement pipe culvert; a chiseled square 1282.25
- 37 5.5 Atlantic, 5.0 mi N. of from U. S. Hwy. 6 at Olive Street, 161 ft N. and 49 ft W. of crossroads, near cor. secs. 8, 9, 16 and 17, T. 77 N., R. 36 W., 128 ft N. of E.-W. fence, 4 ft N. of telephone pole, in concrete post; standard tablet stamped "TT 29 LB 1956 RESET 1959" 1326.582
- 38 6.0 UE 29 LB A, about 0.5 mi N. along concrete rd. from BM, at a concrete bridge, 13 ft E. and 0.7 ft higher than rd., on top, near S. end of E. concrete curb; a chiseled square 1222.41
- 39 6.4 UE 29 LB B, about 1.0 mi N. along concrete rd. from BM, at center of crossroads (denoting sec. cor.); a chiseled cross 1256.47
- 40 7.0 UE 29 LB C, about 1.5 mi N. along concrete rd. from BM, at overpass across Interstate 80, on top, near center of N. end of E. concrete walkway, 16 ft E. and 0.8 ft higher than rd.; a chiseled square 1306.71
- 41 8.0 UE 29 LB D, about 2.5 mi N. along concrete and gravel rd. from BM, 13 ft N., 19 ft W. and 1.8 ft lower than T-rd. E., on top of W. end of a 2.5 ft corrugated pipe culvert; a punch mark and painted square (NOTE: culvert is slightly damaged) 1313.25
- 42 8.5 UE 29 LB E, about 2.5 mi N., thence 0.5 mi E. along concrete and gravel rds. from BM, 24 ft N. and 1.9 ft higher than rd., at SW. corner of bottom step of a sidewalk leading N. to center of a house; a chiseled square 1322.48
- 43 9.0 Exira, 5.5 mi S. and 5.0 mi W. of; near quarter cor. secs. 33 and 34, T. 78 N., R. 36 W., 183 ft N. and 34 ft E. of crossroad, 33 ft S. of private drive E., 11 ft S. of a power pole, 1 ft W. of a fence corner, in concrete post; standard tablet stamped "21 LB 1956" 1366.536

AUDUDON QUAD. - 105

LINE 2

FEET

P. J. Hohenberger, 1968; Book CV 2338

WIOTA QUAD. - 82

- 1 45 0.0 Atlantic, Cass County, 1.3 mi E along the C. R. I. & P. RR. from the station at; at a private rd. crossing, 0.15 mi W. of a farmhouse, 0.2 mi W. of an open air theatre, 22 ft S. of the center of rd., 42 ft N. of the N. rail, 38 ft E. of the center of a rd., 5 ft N. of a telephone pole, 4.8 ft S. of a fence, 2.7 ft W. of a witness post, set in the top of a concrete post which projects 0.3 ft above the ground; USC&GS standard disk stamped "H 163 1950" 1180.677
- 46 1.4 UE H 163 A, about 1.0 mi S. along U. S. Hwy. 71 from jct. with U. S. Hwy. 6, 179 ft N., 23 ft W. and 1.8 ft lower than T-rd. W., on top, in center of W. headwall of a concrete box culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) 1254.49
- 47 2.4 UE H 163 B, about 2.0 mi S. along U. S. Hwy. 71 from jct. with U. S. Hwy. 6, 29 ft N., 25 ft W. and 3.4 ft lower than T-rd. E. at offset crossroads, on top, in center of W. headwall of a concrete box culvert; an iron bolt stamped "I. H. C. B.M." (elev. by USGS) 1224.84
- 48 2.9 UE H 163 C, about 2.5 mi S. along U. S. Hwy. 71 from jct. with U. S. Hwy. 6, 28 ft W. and 7.8 ft lower than hwy., on top of N. end of W. headwall (13.0 ft in length) of a concrete culvert; a chiseled square 1174.28
- 49 3.5 UE H 163 D, about 3.0 mi S. along U. S. Hwy. 71 from jct. with U. S. Hwy. 6, 121 ft S., 28 ft W. and 4.2 ft lower than T-rd. E., on top, in center of W. headwall of a concrete box culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) 1189.43
- 50 3.8 Atlantic, Cass County, 3.25 mi S. along U. S. Hwy. 71 from jct. with U. S. Hwy. 6 at; T. 76 N., R. 36 W., near the N. sixteenth cor. between secs. 27 and 28, 133.5 ft N. and 39 ft E. of the NE. corner of a white frame house, 116 ft N. and 16 ft W. of a board fence corner N. and W., 50 ft W. and about 7.5 ft higher than hwy., 43 ft N. and 1.5 ft E. of a fence corner N. and E., 27 ft SW. of a 2.0 ft diameter elm tree, 11.5 ft N. of a power pole painted "B.M.", 2.5 ft S. of a witness sign; a standard tablet crimped to the top of a copper rod, stamped "7 PJH 1968" 1213.874
- 51 4.3 UE " PJH A, about 0.6 mi S. along U. S. Hwy. 71 from B.M., 15 ft W. and 10.5 ft higher than hwy., at a steel and concrete bridge across Turkey Creek, on top, near end of NW. wingwall; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) 1158.09
- 52 5.1 UE " PJH B, about 1.3 mi S. along U. S. Hwy. 71 from B.M., at the top of a long hill, just N. of a white frame house W. of rd., 20 ft W. and 0.4 ft lower than hwy., on top, in center of a concrete box culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) 1266.85
- 53 5.5 UE " PJH C, about 1.7 mi S. along U. S. Hwy. 71 from B.M., 119 ft N., 33 ft W. and 13.4 ft lower than T-rd. W., on top of center of W. headwall of a concrete culvert; a chiseled square 1254.20
- 53 5.8 Reference Mark 1 for Triangulation Station TURK 1968, 41.14 ft E. of station, 31 ft N. of center of the rd. and 1 ft S. of the right-of-way fence and a metal witness post 1306.453
- 53 5.8 Atlantic, 1.0 mi E. and 5.0 mi S of; about 0.1 mi W. of cor. secs. 3, 4, 33 and 34, Tps. 75 and 76 N., R. 36 W., in the right-of-way of an E.-W. gravel rd., about 0.1 mi W. of its intersection with U. S. Hwy. 71; a standard tablet stamped "TURK 1968" crimped on a 10-ft length of copper coated rod, driven flush with the ground and set in 6-in. tile filled with gravel 1307.623

LINE 2 (Cont'd)

WIOTA QUAD. - 82

FEET

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|----------|---|----------|
| 1 53 5.8 | Reference Mark 2 for Triangulation Station TURK 1968, 64.49 ft SSE. of station, 33 ft S. of center of rd., 15 ft W. of a power line pole and 1 ft N. of the right-of-way fence and a metal witness post | 1307.665 |
| 54 6.2 | UE Turk A, about 0.4 mi S. along U. S. Hwy. 71 from station, 25 ft W. and 3.2 ft lower than hwy., on top, in center of W. headwall of a concrete box culvert; an iron post stamped "I.H.C. B.M." (elev. by USGS) | 1277.51 |
| 55 6.8 | UE Turk B, about 1.0 mi S. along U. S. Hwy. 71 from B.M., at center of crossroads; a copper nail and washer | 1263.30 |
| 56 7.2 | UE Turk C, about 1.4 mi S. along U. S. Hwy. 71 from B.M., at a small steel and concrete bridge, 12.0 ft E. and 0.5 ft higher than rd., on top, near end of SE. wingwall; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) | 1206.25 |
| 57 8.0 | UE Turk D, about 2.2 mi S. along U. S. Hwy. 71 from B.M., 860 ft S., 20 ft W. and 36.3 ft lower than T-rd. W., at offset crossroads (71 and 414), on top, in center of headwall of a concrete box culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) | 1263.03 |
| 58 8.7 | UE Turk EY, about 2.9 mi S., along U. S. Hwy. 71 from B.M., 780 ft N., 14 ft W. and 7.5 ft lower than crossroads, on top, near end of SW. wingwall of a concrete bridge; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) | 1197.58 |
| 59 9.6 | Reference mark, 580 ft N. of B.M., 22 ft E. of hwy., on top, in center of E. headwall of a concrete box culvert; an iron bolt stamped "I.H.C. B.M." | 1228.21 |
| 60 9.6 | Atlantic, Cass County, 9.0 mi S. along U. S. Hwy. 71 from jct. with U. S. Hwy. 6 at; T. 75 N., R. 36 W., secs. 21, 22, 27 and 28, 309 ft N., 49 ft S. and 0.8 ft higher than crossroads, 129 ft N. and 1.0 ft E. of a right-of-way fence corner N. and SW., 4.5 ft S. of a power pole, painted "BM", 3.5 ft N. of a witness sign; a standard tablet stamped "G PJH 1968" and crimped to the top of a copper rod | 1237.104 |
| 60 10.5 | UE 8 PJH A, about 0.7 mi S. along U. S. Hwy. 71 from B.M., 14 ft W. and 1.1 ft higher than hwy., on top, near center of NW. wingwall of a concrete culvert; a chiseled cross | 1172.73 |
| 61 10.8 | UE 8 PJH B, about 1.0 mi S. along U. S. Hwy. 71 from B.M., 70 ft N., 37 ft E. and 0.4 ft lower than crossroads (92 and 71), on top, in center of E. headwall (10.5 ft in length) of a concrete culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) | 1169.16 |
| 62 12.0 | UE 8 PJH C, about 1.0 mi S. along U. S. Hwy. 71, thence 1.0 mi E. along State Hwy. 92, at center of crossroads denoting section corner; a chiseled cross | 1290.74 |
| 63 12.3 | Reference mark 2 for Triangulation Station LYMAN 1968; 66.72 ft W. of station, 102 ft N. of center of Hwy. 92, 33 ft NE. of a power line pole and 1 ft S. of right-of-way fence and a metal witness post | 1318.158 |
| 63 12.3 | Cumberland, 1.0 mi S. and 4.5 mi W. of; near quarter cor. between secs. 26 and 35; T. 75 N., R. 36 W., in the right-of-way of State Hwy. 92, 1.45 mi E. of its intersection with U. S. Hwy. 71; standard tablet stamped "LYMAN 1968" crimped on 10-ft length of copper coated rod, driven flush with ground and set in 6-in. tile filled with gravel. | 1319.394 |
| 63 12.3 | Reference Mark 1, 66.82 ft E. of station, 115 ft N. of center of Hwy. 92, 80 ft NW. of a powerline pole and 1.3 ft S. of right-of-way fence and a metal witness post | 1318.653 |

<u>LINE 2 (Cont'd)</u>		<u>WIOTA QUAD. - 82</u>	<u>FEET</u>
1 64	12.9	UE Lyman A, about 0.55 mi E. along State Hwy. 92 from B.M., at center of crossroads denoting section corner; a chiseled cross	1236.86
65	13.8	UE Lyman B, about 1.5 mi E. along State Hwy. 92 from B.M., 33 ft N., 194 ft W. and 2.1 ft lower than crossroads, on top, in center of a concrete box culvert; an iron bolt	1280.97
66	14.7	UE Lyman C, about 2.4 mi E. along State Hwy. 92 from B.M., 52 ft S., 48 ft W. and 7.4 ft lower than crossroads (chiseled cross denoting section corner) on top, in center of a concrete box culvert; a chiseled square	1203.02
67	15.1	Atlantic, Cass County, 10.0 mi S. along U. S. Hwy. 71 thence 4.3 mi E. along State Hwy. 92 from jct. with U. S. Hwy. 6 at; T. 75 N., R. 35 W., near quarter cor. between secs. 29 and 32, 99 ft N., 268 ft W. and 13.9 ft lower than rd. at W. end of a long concrete bridge across Seven Mile Creek, 4.0 ft E. of a power pole, painted "B.M.", 1.5 ft S. of a right-of-way fence, 3.5 ft W. of a witness post; a standard tablet crimped to the top of a copper rod; stamped "9 PJH 1968"	1189.554
68	15.1	Reference mark, 118 ft S. and 262 ft E. of B.M., 19 ft S. and 6.0 ft W. of rd. at W. end of a long concrete bridge, on top of SW. wingwall; a chiseled square	1203.90
68	15.8	UE 9 PJH A, about 0.6 mi E. along State Hwy. 92 from B.M., 51 ft S., 33 ft W. and 6.0 ft lower than crossroads, on top of W. end of a cement pipe culvert; a chiseled square	1271.36
69	16.8	UE 9 PJH B, about 1.6 mi E. along State Hwy. 92 from B.M., 140 ft N., 28 ft E. and 3.1 ft lower than crossroads (92 and 176), on top, in center of a concrete box culvert; an iron bolt stamped "I.H.C. B.M."	1264.82
71	17.8	UE 9 PJH C, about 1.6 mi E. along State Hwy. 92 from B.M., thence 1.0 mi N. along State Hwy. 176, 1100 ft N. of a concrete bridge, near center of crossroads denoting section corner; a chiseled cross	1274.40
73	18.2	Cumberland, Cass County at the city water tower, 153 ft E. of N. Main St., 8.5 ft W. of W. corner of concrete foundation of SW. leg of tower; a standard tablet crimped to the top of a copper rod stamped "10 PJH 1968"	1316.467
73	18.2	Reference mark, 24 ft NE. of B.M., on top of the W. corner of foundation of NW. leg of water tower; a chiseled square	1319.02
73	19.0	UE 10 PJH A, 1.0 mi N. along concrete rd. from Cumberland, Cass County, T. 75 N., R. 35 W., at cor. secs. 15, 16, 21 and 22, at rd. at fence W.; a chiseled cross denoting section corner	1295.63
74	19.5	UE 10 PJH B, about 1.45 mi N. along concrete rd. from Cumberland, at a steel and concrete bridge, 10.5 ft E. and 0.5 ft higher than rd., on top of N. end of E. concrete curb; a chiseled cross	1222.05
75	20.0	UE 10 PJH C, about 2.0 mi N. along concrete rd. from B.M., at center of crossroads; a chiseled cross denoting section corner	1240.80
76	21.0	Reference mark, 265 ft S. of B.M., 46 ft S. and 34 ft W. of crossroads, on top of S. end of a 2.5 ft cement pipe culvert; a chiseled square	1288.09
77	21.0	Atlantic, Cass County, 6.0 mi E. along U. S. Hwy. 6, thence 6.3 mi S. along concrete rd. (Co. Rd. "K") from jct. with U. S. Hwy. 71 at; T. 75 N., R. 35 W., near cor. secs. 3, 4, 9 and 10, 219 ft N., 53 ft W. and 4.6 ft higher than crossroads, 69 ft N. and 23 ft E. of NE. corner of a schoolhouse, 61.5 ft S. and 1.5 ft W. of a T-fence SW., 6.0 ft S. of a power pole, painted "B.M.", 4.5 ft N. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "11 PJH 1968"	1297.492

LINE 2 (Cont'd)

WIOTA QUAD. - 82

FEET

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|---|----|------|--|----------|
| 1 | 77 | 22.0 | UE 11 PJH A, about 1.0 mi N. along concrete rd. from B.M., 38 ft N., 33.5 ft W. and 2.7 ft lower than crossroads, on top of N. end of a 2.5 ft cement pipe culvert; a chiseled square | 1291.74 |
| | 78 | 23.0 | UE 11 PJH B, about 2.0 mi N. along concrete rd. from B.M., at center of crossroads; a chiseled cross denoting section corner | 1370.60 |
| | 79 | 24.1 | UE 11 PJH C, about 3.1 mi N. along concrete rd. from B.M., at a steel and concrete bridge, 10.5 ft E. and 0.8 ft higher than rd., on top of N. end of E. concrete curb; a chiseled cross | 1237.29 |
| | 80 | 24.5 | UE 11 PJH D, about 3.5 mi N. along concrete rd. from B.M., 32 ft S., 42 ft W. and 6.6 ft lower than crossroads, on top of S. end of a 3.5 ft circular concrete V-shaped culvert; a chiseled square | 1276.19 |
| 2 | 1 | 24.8 | Atlantic, Cass County, 6.0 mi E. along U. S. Hwy. 6 from jct. with U. S. Hwy. 71 at; thence 2.6 mi S. along concrete rd. (Co. Rd. "K"), T. 76 N., R. 35 W., near the N. sixteenth cor. between secs. 21 and 22, near the top of a hill and just S. of a white frame farmhouse W. of rd., 252 ft S., 50 ft W. and 1.8 ft higher than rd. at drive W. to farmhouse, 49.5 ft S. and 1.0 ft W. of a fence corner S.-W., 6.0 ft S. of a power pole, painted "B.M.", 2.0 ft N. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "12 PJH 1968" | 1327.755 |
| | 2 | 25.1 | UE 12 PJH A, about 0.3 mi N. along concrete rd. from B.M., at center of crossroads; a chiseled cross denoting section corner | 1277.87 |
| | 3 | 25.5 | UE 12 PJH B, about 0.75 mi N. along concrete rd. from B.M., at a steel and concrete bridge, 10.5 ft E. and 0.7 ft higher than rd., on top of N. end of E. concrete curb; a chiseled square | 1227.34 |
| | 4 | 26.0 | UE 12 PJH C, about 1.3 mi N. along concrete rd. from B.M., at center of crossroads; a chiseled cross denoting section corner | 1307.82 |
| | 5 | 26.8 | UE 12 PJH D, about 2.0 mi N. along concrete rd. from B.M., near center of crossroads; a chiseled cross denoting sixteenth corner (NOTE: chiseled cross is 13 ft N. of center of crossroads) | 1230.63 |
| | 6 | 27.2 | UE 12 PJH E, about 2.4 mi N. along concrete rd. from B.M., at a long concrete bridge across Turkey Creek, 15 ft W. and 0.7 ft higher than rd., on top, near NE. end of SW. wingwall; a chiseled square | 1211.09 |
| | 7 | 27.3 | Wiota, 1.1 mi NE. along U. S. Hwy. 6 from the school at; at the intersection of the hwy. and County Rd. "K", 38 ft NW. of the center of the hwy., 22 ft E. of the center of the county rd., 71 ft NE. of hwy. station 311, level with the hwy., set in the top of the S. end of the N. wingwall; of a concrete bridge; USC&GS standard disk stamped "L 163 1950" | 1205.047 |

LINE 3

P. J. Hohenberger, 1968; Book CV 2338

WIOTA QUAD. - 82

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|---|----|-----|--|----------|
| 2 | 9 | 0.0 | At Anita, 0.3 mi NE. along U. S. Hwy. 6 from the post office, on the side of a hill, 44 ft SE. of the center of the hwy., 150 ft NE. of a highway culvert, 27 ft E. of a 36-in. elm tree, 1.2 ft NW. of a fence, 2.3 ft NE. of a witness post, set in the top of a concrete post which projects 0.3 ft above the ground; USC&GS standard disk stamped "S 163 1950" | 1263.741 |
| | 10 | 0.7 | UE S 163 A, about 0.15 mi S. along State Hwy. 148 from jct. with U. S. Hwy. 6 at Anita, Cass County, at a long concrete bridge across upper end of Turkey Creek, 13 ft E. and 1.0 ft higher than rd., near NW. corner of N. end walkway; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) | 1260.94 |

LINE 3 (Cont'd)	WIOTA QUAD. - 82	FEET
2 11 1.4 UE S 163 B, about 0.95 mi S. along State Hwy. 148 from jct. with U. S. Hwy. 6 at Anita, Cass County, 137.5 ft S., 34 ft E. and 9.9 ft lower than T-drive W. to State Park, on top, in center of a large concrete culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS)		1299.47
12 2.4 Reference mark, 117 ft N. of B.M., 54 ft W. of rd., on top of W. end of a 2.0-ft cement pipe culvert; a chiseled square		1396.07
13 2.4 Anita, Cass County, 1.95 mi S. along State Hwy. 148 from jct. with U. S. Hwy. 6 at; Tps. 76 and 77 N., R. 34 W., near cor. secs. 3, 4, 33 and 34, 289 ft N., 67 ft W. and 7.5 ft higher than T-rd. E., 5.0 ft S. and 7.0 ft W. of a power pole, painted "B.M.", 1.0 ft E. of a right-of-way fence, 4.0 ft N. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "15 PJH 1968"		1400.591
13 3.5 UE 15 PJH A, about 1.0 mi S. along State Hwy. 148 (gravel) from B.M., 41 ft N., 21 ft E. and 0.7 ft lower than T-rd. E., on top, in center of a concrete box culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS)		1397.77
14 4.6 UE 15 PJH B, about 2.0 mi S. along State Hwy. 148 (gravel) from B.M., 400 ft S., 35 ft W. and 11.6 ft lower than crossroads, on top of W. end of a 2.5-ft cement pipe culvert; a chiseled square		1394.98
15 5.5 Anita, Cass County, 4.95 mi S. along State Hwy. 148 (gravel) from jct. with U. S. Hwy. 6 at; T. 76 N., R. 34 W., near cor. secs. 15, 16, 21 and 22, 215 ft N., 61 ft E. and 2.9 ft higher than T-rd. E., at offset crossroads; 106.5 ft N. and 19.5 ft W. of NW. corner of a church, 73.5 ft N. and 8.0 ft E. of a 4.0 ft (diameter) yellow pine tree, 32 ft N. of a power pole painted "B.M.", 5.0 ft N. and 1.5 ft W. of a T-fence N., 3.0 ft S. of a witness sign; a standard tablet crimped to the top of a copper rod; stamped "16 PJH 1968"		1384.999
16 5.5 Reference mark, about 0.2 mi S. of B.M., 22.5 ft W. of rd., on top, in center of a concrete box culvert; an iron bolt stamped "I.H.C. B.M."		1357.97
16 6.4 UE 16 PJH A, about 1.0 mi S. along State Hwy. 148 (gravel) from B.M., 237 ft N., 13 ft W. and 0.3 ft higher than crossroads, on top, in center of SW.wingwall of a concrete bridge; a chiseled cross		1294.97
17 7.5 UE 16 PJH B, about 2.0 mi S. along State Hwy. 148 (gravel) from B.M., at center of T-rd. E.		1371.55
18 7.8 UE 16 PJH C, about 2.3 mi S. along State Hwy. 148 (gravel) from B.M., 24 ft W. of rd., on top, in center of W. headwall of a concrete box culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS.)		1330.09
19 8.2 Reference mark, 0.35 mi N. of B.M., 13 ft W. of rd., on top, in center of SW.wingwall of a concrete bridge; a chiseled cross		1291.61
20 8.2 Anita, Cass County, 8.0 mi S. along State Hwy. 148 from jct. with U. S. Hwy. 6 at; T. 75 N., R. 34 W., at NE. cor. sec. 4, 420 ft S., 63 ft W. and 4.0 ft lower than crossroads, 135 ft N. and 14 ft W. of center of W. headwall of a concrete box culvert; 6.5 ft S. of a power pole painted "B.M.", 3.0 ft N. of a witness sign, 1.5 ft E. of a right-of-way fence; a standard tablet crimped to the top of a copper rod stamped "17 PJH 1968"		1317.454
21 9.5 UE 17 PJH A, about 0.85 mi S. along State Hwy. 148 (gravel) from B.M., 450 ft N., 24 ft E. and 12.5 ft lower than crossroads, on top, in center of E. headwall of a large concrete box culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS)		1315.57

LINE 3 (Cont'd)

WIOTA QUAD. - 82

FEET

- 2 22 10.3 UE 17 PJH B, about 1.7 mi S. along State Hwy. 148 (gravel) from B.M., 21 ft W. and 0.1 ft higher than rd., on top, in center of W. headwall (10.0 ft in length) of a concrete culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) 1307.06
- 23 11.1 UE 17 PJH C, about 2.45 mi S. along State Hwy. 148 (gravel) from B.M., 26 ft W. and 2.3 ft lower than rd., on top, in center of W. headwall of a concrete box culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) 1351.93
- 24 11.5 Anita, Cass County, 11.0 mi S. along State Hwy. 148 from jct. with U. S. Hwy. 6 at; T. 75 N., R. 34 W., at SE. cor. sec. 16, 244 ft N., 46.5 ft W. and 0.9 ft lower than crossroads, 209 ft N. and 1.5 ft E. of a right-of-way fence corner N.-W., 10.5 ft S. of a power pole, painted "B.M.", 3.0 ft N. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "18 PJH 1968" 1379.235
- 25 12.5 UE 18 PJH A, about 1.0 mi S. along State Hwy. 148 (gravel) from B.M., 350 ft N., 23 ft W. and 5.4 ft lower than T-rd. W., on top, in center of W. headwall (13 ft in length) of a concrete culvert; an iron bolt stamped "I.H.C. B.M." 1253.99
- 26 13.6 UE 18 PJH B, about 2.0 mi S. along State Hwy. 148 (gravel) from B.M., 71 ft N., 100 ft E. and 4.7 ft lower than crossroads (chiseled cross at intersection of 148 and 92), on top, in center of N. headwall of a concrete box culvert; an iron bolt stamped "I.H.C. B.M." (elev. by USGS) 1311.67

FONTANELLE QUAD. - 81

- 27 14.5 Greenfield, Adair County, 15.9 mi W. along State Hwy. 92 from jct. with State Hwy. 25 at; T. 75 N., R. 34 W., at NE. cor. sec. 34, 94 ft S., 197.5 ft W. and 7.2 ft higher than crossroads, 9.0 ft S. and 118.5 ft W. of a power pole, painted "B.M.", 15 ft SE. and 1.5 ft NE. of a right-of-way fence corner W.-SE., 2.5 ft NW. of a witness sign; a standard tablet crimped to the top of a copper rod; stamped "19 PJH 1968" 1309.374
- 28 14.5 Reference mark, at center of crossroads, denoting section corner; top of lead pipe and chiseled cross 1302.20
- 28 15.3 UE 19 PJH A, about 0.85 mi E. along State Hwy. 92 from; 16 ft S. and 0.8 ft higher than rd., on top, near center of curve in base of SW. wingwall of a long concrete bridge; a chiseled square 1239.12
- 29 15.7 UE 19 PJH B, about 1.2 mi E. along State Hwy. 92 from B.M., 33 ft S., 450 ft W. and 21.2 ft lower than T-rd. N., on top, in center of a concrete box culvert; an iron bolt stamped "I.H.C. B.M." 1267.84

LINE 4

P. J. Hohenberger, 1968; Book CV 2338

WIOTA QUAD. - 82

- 2 52 0.0 USC&GS "L 163 1950" (described in Line 2) 1205.047
- 52 0.9 UE L 163 A, about 0.9 mi N. along rd. (under construction) from B.M., 24 ft S. 38 ft E. and 1.0 ft lower than rd. at drive E. to farmhouse, on top of S. end of a 3.0-ft corrugated pipe culvert; a punch mark and painted square 1271.74
- 53 1.7 UE L 163 B, about 1.7 mi N. along rd. (under construction) from B.M., 27 ft N., 37 ft E. and 1.2 ft lower than T-rd. E., on top of N. end of a 2.0-ft corrugated pipe culvert; a punch mark and painted square 1325.02

LINE 4 (Cont'd)

WIOTA QUAD. - 82

FEET

- 2 54 22.7 Wiota, Cass County, 1.1 mi NE. along U. S. Hwy. 6 from the high school at; thence 2.7 mi N. along rd. (under construction), T. 77 N., R. 35 W., at the NW. cor. sec. 27, 33 ft S., 337 ft E. and 1.7 ft higher than T-rd. E., 6.0 ft S. and 250 ft E. of the center of the S. end of a 3.0-ft diameter metal culvert, 1.0 ft N. and 272 ft E. of a right-of-way fence corner S.-E., 3.5 ft W. of a power pole, painted "B.M.", 3.0 ft E. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "13 PJH 1968" (NOTE: Tablet was slightly battered while installing mark, stamping is barely discernable) 1327.350
- 55 2.7 Reference mark, about 700 ft NW. of B.M., 32 ft E. of rd., on top of E. end of a 2.5 ft cement pipe culvert; a chiseled square 1298.75
- 55 3.4 UE 13 PJH A, about 1.1 mi N. along rd. (under construction) from B.M., 510 ft N., 30 ft E. and 14.8 ft lower than crossroads, on top, in center of E. headwall (11.5 ft in length) of a concrete culvert; a chiseled square 1223.47
- 56 4.7 UE 13 PJH B, about 1.9 mi N. along rd. (under construction) from B.M., at a long concrete bridge, 17 ft W. and 0.5 ft higher than rd., at SW. end of SW. wingwall, on top, in center of concrete lip; a chiseled square 1216.40
- 57 5.8 Reference mark, about 970 ft WSW. of B.M., near N. end of a long curve in rd., 267 ft SW. of crossroads, 39 ft NW. and 6.0 ft lower than rd. (under construction), on top of W. end of N. headwall (7.5 ft in length) of a concrete culvert; a chiseled square 1252.49
- 58 5.8 Wiota, Cass County, 6.0 mi N. and 1.15 mi E. of; T. 77 N., R. 35 W., at the W. sixteenth cor. between secs. 3 and 10, 36 ft S., 27.5 ft E. and 1.7 ft lower than T-rd. N., 62 ft E. of a 2.5 ft diameter cottonwood tree, 39 ft E. of a field rd. S., 1.5 ft N. and 30 ft E. of a fence corner S.-E., 3.0 ft E. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "14 PJH 1968" 1276.876
- 58 6.6 UE 14 PJH A, about 0.6 mi E. along gravel rd. from B.M., at center of a large steel and wooden bridge 1223.41
- 59 7.4 UE 14 PJH B, about 0.75 mi E. along gravel rd. from B.M., 27 ft S., 23 ft W. and 1.9 ft lower than crossroads, on top of W. end of N. one of two 4.0 ft cement pipe culverts; a chiseled cross 1225.27
- 60 7.8 Exira, 7.0 mi S. and 2.25 mi E. of; near cor. secs. 1, 2, 11 and 12; T. 77 N., R. 35 W., 183 ft N. and 129 ft W. of crossroad, 27 ft S. and 42 ft E. of NE. corner of Highland Church, 1 ft S. and 2 ft W. of SE. corner of cemetery, in concrete post; standard tablet stamped "TT 27 LB 1956" (may be stamped "TT 26 LB 1956") 1382.620
- 61 8.3 UE 26 LB A, about 0.5 mi N. along gravel rd. from B.M., on top, near center of E. concrete curb of rd. overpass across Interstate 80, 107.5 ft S., 14 ft E. and 5.0 ft (estimated) higher than rd. at N. end of overpass, 0.5 ft W. of guard rail; a chiseled square 1309.64

AUDUBON QUAD. - 105

- 62 8.8 UE, 21 ft S. and 25 ft E. of center of large cottonwood tree, in center of crossroads, on S. end of metal culvert; a painted square 1327.80

LINE 5

P. J. Hohenberger, 1968; Book CV 2338

WIOTA QUAD. - 82

- 2 63 0.0 At Anita, at the intersection of U. S. Hwy. 6 and Walnut Street, at the E. corner of the city park; 23 ft SW. of the SW. curb of Walnut St., 15.6 ft NW. of the NW. curb of the hwy., 1.5 ft above the ground, set in the top of the W. corner of a concrete flagpole base; USC&GS standard disk stamped "U 163 1950" 1268.373

LINE 5 (Cont'd)

WIOTA QUAD. - 82

FEET

- 2 63 0.7 UE U 163 A, at Anita, Cass County, 20 ft N., 25 ft W. and about level with T-rd. W. (Tenth and Locust Streets) on top of N. end of a 3.0 ft cement pipe culvert; a chiseled square 1345.15
- 64 1.6 UE U 163 B, about 1.5 mi N. along County Rd. "J" (Locust Street) from jct. with U. S. Hwy. 6 at Anita, Cass County, 1000 ft S. of a farmhouse W. of rd., 25 ft E. and 5.1 ft lower than rd., on top of E. end of a 2.0 ft corrugated pipe culvert; a punch mark and painted square 1397.41
- 65 2.7 Reference mark, 290 ft SW. of B.M., 106 ft S. and 37 ft E. of a T-rd. S., on top of E. end of a 2.5-ft cement pipe culvert; a chiseled square 1448.73
- 66 2.7 Anita, Cass County, 2.4 mi N. and 0.3 mi W. of center of; T. 77 N., R. 34 W., at the center of sec. 9, 44 ft N., 255 ft E. and 3.9 ft higher than T-rd. S., 25 ft W. of a drive N. to farmhouse, 1.5 ft S. and 76 ft E. of a T-fence N., 11.5 ft NW. of a power pole, painted "B.M.", 81.5 ft SW. of SW. corner of farmhouse, 6.5 ft WNW. of elm tree; a standard tablet crimped to the top of a copper rod stamped "30 PJH 1968" 1455.432
- 66 3.2 UE 30 PJH A, about 0.5 mi E. along paved rd. from B.M., 30 ft N., 67 ft W. and 0.9 ft lower than crossroads, on top of NW. end of a 5.0 ft corrugated pipe culvert; a punch mark and painted square 1348.43
- 75 3.6 UE 30 PJH B, about 0.5 mi E. and 1.0 mi N. of B.M., at rd. overpass across Interstate 80, 15 ft E. and 0.7 ft higher than rd., on top of N. end of E. concrete curb; a chiseled square 1335.43

AUDUBON QUAD. - 105

- 75 4.8 Reference mark, 460 ft SSE. of B.M., 14 ft E. of rd., at SE. corner of concrete bridge; a chiseled square 1288.49
- 76 4.8 Exira, Audubon County, 6.0 mi S. and 6.0 mi E. of; Tps. 77 and 78 N., R. 34 W., near cor. secs. 3, 4, 33 and 34, 635 ft N., 50 ft W. and 8.8 ft lower than crossroads, 21.5 ft S. of a drive W. to farmhouse, 13.5 ft S. and 2.0 ft E. of a fence corner S. and W., 5.5 ft S. of a power pole painted "B.M.", 2.5 ft N. of a witness sign, in concrete post projecting 0.1 ft; a standard tablet stamped "15 LB 1956 RESET 1968" (NOTE: TT. stamping has been crossed over) 1288.156
- 76 5.7 UE 15 LB A, about 1.0 mi N. along concrete rd. from B.M., at center of crossroads; a chiseled square 1306.60
- 77 6.7 UE 15 LB B, about 2.0 mi N. along concrete rd. from B.M. at center of crossroads; a chiseled square 1426.31

LINE 6

L. H. Borgerding, 1956; Book CV 740

AUDUBON QUAD. - 105

- 6.2 Exira, 6.0 mi S. and 1.0 mi E. of; near cor. secs. 2, 3, 34 and 35, Tps. 77 and 78 N., R. 35 W., 15 ft S. and 16 ft W. of rd. N.-E. and field rd. S., 1 ft W. of a power pole, in concrete post; standard tablet stamped "13 LB 1956" 1231.251
- 6.3 Reference mark, 570 ft E. of B.M., 9 ft S. and 31 ft W. of center of bridge; on top of S. end of metal beam 1226.46
- 6.7 UE, center of rd. at fence N., near quarter cor. secs. 2 and 35; Tps. 77 and 78 N., R. 35 W., 1241.4

<u>LINE 6 (Cont'd)</u>	<u>AUDUBON QUAD. - 105</u>	<u>FEET</u>
7.2 UE 1327.7 (described in Line 4)		1327.80
7.7 UE, center of rd. at fence N. and rd. S.; near quarter cor. secs. 1 and 36; Tps. 77 and 78 N., R. 35 W.		1317.9
8.2 UE, center of rd. at N.-S. fence, near cor. secs. 1, 6, 31 and 36, Tps. 77 and 78 N., Rs. 34 and 35 W.		1401.0
8.7 UE, center of rd. at N.-S. fence, near quarter cor. secs. 6 and 31; Tps. 77 and 78 N., R. 34 W.		1341.9
9.2 Exira, 6.0 mi S. and 4.0 mi E. of, near cor. secs. 5, 6, 31 and 32; Tps. 77 and 78 N., R. 34 W., 31 ft N. and 214 ft E. of crossroad, 45 ft W. of drive N., 2 ft W. of a power pole and 1 ft S. of fence, in front of house; in concrete post; standard tablet stamped "14 LB 1956"		1378.627
9.2 Reference mark, 58 ft E. of B.M., 25 ft N. of center of rd., 13 ft E. of center of drive N., on E. end of round concrete culvert; a chiseled square		1373.44
9.7 UE, center of bridge, near quarter cor. secs. 5 and 32; Tps. 77 and 78 N., R. 34 W. (water level = 8.7 ft lower)		1279.1
10.1 UE, center of crossroad, near cor. secs. 4, 5, 32 and 33; Tps. 77 and 78 N., R. 34 W.		1267.9
10.6 UE, center of rd. at fence N., near quarter cor. secs. 4 and 33; Tps. 77 and 78 N., R. 34 W.		1267.9

LINE 7

<u>L. H. Borgerding, 1956; Book CV 740</u>	<u>AUDUBON QUAD. - 105</u>	
11.2 Reference mark, 274 ft N. and 150 ft E. of crossroads, on NW. corner at end of sidewalk leading W.; a chiseled square		1372.71
1122 "21 LB 1956" (described in Line 1)		1366.536
12.0 UE, center of rd. at private drive S., about 1000 ft W. of quarter cor. between secs. 34, and 35, T. 78 N., R. 36 W.,		1320.1
12.7 UE, center of crossroads, near center sec. 35, T. 78 N., R. 36 W.		1235.6
13.4 UE, center of U. S. Hwy. 71 at crossroads, between center of sec. 36, T. 78 N., R. 36 W.; a chiseled square		1198.58
13.9 Reference mark, center of U. S. Hwy. 71, in line with fence W.; a chiseled square		1197.70
14.0 Exira, 5.0 mi S. and 3.5 mi W. of, along U. S. Hwy. 71, near W. sixteenth cor. between secs. 25 and 36; T. 78 N., R. 36 W., 45 ft E. of center of hwy., 39 ft N. of a fence W. and a drive between RR. tracks and hwy., 39 ft W. of center of tracks, 17 ft NE. of an iron marker; a State Survey standard disk stamped "5-325" and set in the top of a concrete post		1194.358

LINE 8

<u>D.N. Burgeson, 1976; Book CV-3342</u>	<u>CARBON QUAD. - 60</u>	
67 21.9 BM, Grant, 6 mi N. of along U.S. Hwy. 71; 13 mi S. of Atlantic, T. 74 N., R. 36 W., near cor. of secs. 3, 4, 9 and 10; 257 ft S. and 108 ft W. of crossroads, 65 ft S. of a fence corner, 1.8 ft E. of a fence line and witness post; standard tablet on a copper coated steel rod driven to a depth of 15 ft and stamped "10 DNB 1976"		1277.578

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41-094-34
ANITA QUADRANGLE
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LINE 8 (Cont'd)

CARBON QUAD. - 60

FEET

- 7 68 22.0 Reference mark 2, 230 ft NE. of tablet; 30 ft S., 22 ft W. and 0.06 ft lower than center-line of crossroad; 1.4 ft from the S. point on a triangular concrete median; chiseled square 1271.31
- 71 23.3 UE 10 DNB A, Grant, 7.3 mi N. of along U.S. Hwy. 71; 11.7 mi S. of Atlantic; T. 75 N., R. 36 W., near S. sixteenth cor. between secs. 33 and 34; at the SW. cor. of bridge No. 1501, 7 ft N. of the S. end; chiseled square 1170.64

ANITA QUAD. - 82

- 72 23.8 UE 10 DNB B, Grant, 8 mi N. of along U.S. Hwy. 71, 11 mi S. of Atlantic, 145 ft N. and 45 ft E. of crossroad; (jct. of U.S. Hwy. 71 and State Hwy. 92); at the center of the E. end of an 11 ft concrete box culvert brass plug stamped IHC BM 1170.62
- 78 25.3 Cumberland, 1 mi S. and 4.5 mi W. of; near quarter cor. between secs. 26 and 35; T. 75 N., R. 36 W., in the right-of-way of State Hwy. 92, 1.45 mi E. of its intersection with U.S. Hwy. 71; standard tablet stamped "LYMAN 1968" crimped on 10 ft length of copper coated rod, driven flush with ground and set in 6-in. tile filled with gravel. 1319.394