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SPIRIT LEVELING IN MISSOURI

PART 4. NORTHWESTERN MISSOURI

1896-1937

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Prepared in cooperation with the

STATE OF MISSOURI

GEOLOGICAL SURVEY AND WATER RESOURCES

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SPIRIT LEVELING IN MISSOURI

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INTRODUCTION

Scope of report.—This bulletin, which for convenience is to be published in eight parts, contains the results of all spirit leveling done in Missouri by the Geological Survey, United States Department of the Interior, including those heretofore published. * Each of the parts deals with one of eight sections into which the State has been divided for this purpose and which have been designated northeastern, northwestern, southeastern, southwestern, central, east-central, south-central, and west-central Missouri. In each part descriptions of the points for which figures of elevation have been determined are listed according to the quadrangles in which the points occur. Results of spirit leveling other than that done by the Geological Survey have not been included.

Cooperation.—The State has contributed financially to the work of leveling in Missouri since 1907, ordinarily cooperating with the United States Geological Survey on a dollar-for-dollar basis. The agencies concerned in this cooperation are the Missouri Geological Survey and Water Resources and, since 1929, the Missouri State Highway Commission. Since 1934, the Missouri Geological Survey and Water Resources, under allotments from the Federal Emergency Relief Administration and the Works Progress Administration, has also supplied the funds to pay the personnel working on extensive projects of leveling in the State. For these projects the United States Geological Survey has furnished equipment and supervision as its share of the cooperation.

Classification of leveling.—Spirit leveling is classified according to the degree of refinement in the instruments and methods used and according to the closure errors.

^{**}
First-order leveling consists of leveling done with the most improved instruments, all sections being leveled twice, in opposite directions, under varying conditions. Closures are not allowed to exceed the amount in feet represented by the formula 0.017 times the square root of the length of section in miles.

Second-order leveling, according to regulations of the United States Geological Survey, comprises lines leveled twice with reliable instruments, though not necessarily of the most improved type. Closures are not allowed to exceed 0.035 times the square root of the length of section in miles.

Third-order leveling is made up of lines that are run, either with first-order equipment or with an engineer's wye level and rods of the New York type, in single-line circuits that are required to close within the limits of 0.05 times the square root of the

*For the results of spirit leveling in Missouri previously published see Triangulation and spirit leveling—Missouri: U. S. Geol. Survey 18th Ann. Rept., pt. 1, pp. 333-337, 1897; Triangulation and spirit leveling—Missouri-Illinois: U. S. Geol. Survey 20th Ann. Rept., pt. 1, pp. 412-413, 1899; Triangulation, primary traverse and spirit leveling—Missouri: U. S. Geol. Survey 21st Ann. Rept., pt. 1, pp. 474-475, 1900; Results of spirit leveling, fiscal year 1900-1901—Missouri, Missouri-Kansas: U. S. Geol. Survey Bull. 185, pp. 107-113, 1901; Results of spirit leveling in Missouri, 1896 to 1919, inclusive: U. S. Geol. Survey Bull. 459, 48 pp., 1911; Results of spirit leveling in Missouri, 1896 to 1914, inclusive: U. S. Geol. Survey Bull. 568, 219 pp., 1915.

**See Avers, H. G., Manual of first-order leveling; U. S. Coast and Geodetic Survey Special Pub. 140, 1929.

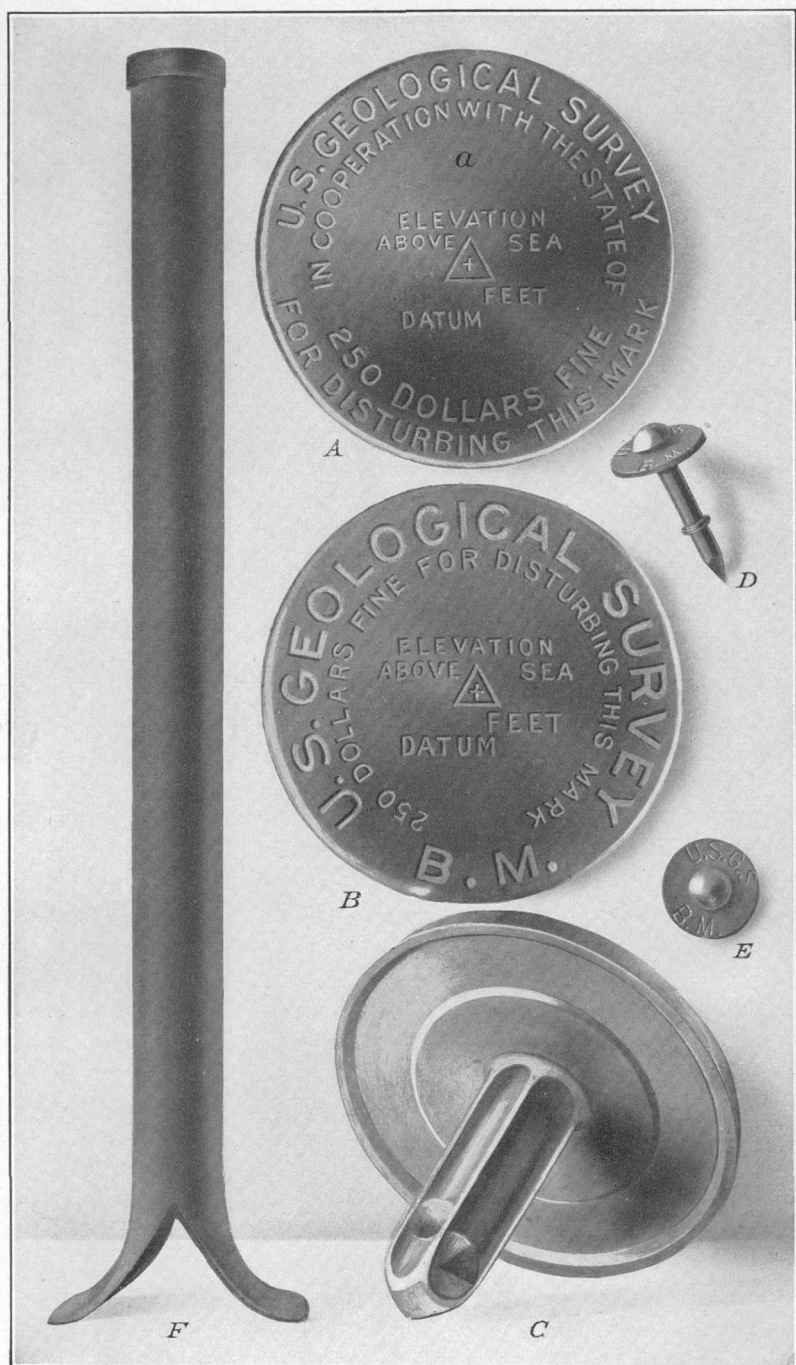
length of circuit in miles. This is equivalent to 0.071 times the square root of the length of section in miles if the line is leveled twice.

All leveling done by the United States Geological Survey in Missouri is of third-order accuracy except as otherwise stated.

Adjustments.—A preliminary step to the adjustment of first, second, and third-order leveling is the application of all corrections for rod error, temperature, and unbalanced sights, as well as the orthometric corrections required because of the convergence toward the poles of level surfaces of different elevations. The adjustment of a net of leveling begins with the first-order lines. Most of these lines in both the United States and Canada have already been combined in a general net and adjusted to remove accidental closure errors by the mathematical method known as least squares. The latest adjustment of this kind was made in 1929 by the United States Coast and Geodetic Survey and is known as the "1929 general adjustment of first-order leveling." This adjustment included the first-order lines in Missouri, and the elevations thus derived are the fundamental references for elevations determined by second- and third-order nets. The third-order leveling of the United States Geological Survey in Missouri has been adjusted by determining weighted mean elevations for new junction points and prorating the errors of each link. The weights are taken as the reciprocals of lengths of links. The third-order net has thus been brought into agreement with the best information available for the results of the fundamental first-order leveling, although the published figures of elevation may be changed slightly by future adjustments of the level net.

Benchmarks.—The benchmarks used by the United States Geological Survey (pl. 1) are of two general classes—principal and supplementary. Principal benchmarks are placed at more or less regular intervals along a level line and are established with the aim of making them as nearly permanent as practicable. They are usually bronze or aluminum tablets, iron posts, or copper bolts. Supplementary or auxiliary benchmarks are less formal in design and are placed between the principal benchmarks. Some of the supplementary benchmarks in common use are copper nails fitted with washers, spikes, and marks cut with a chisel on rock or masonry.

The tablets are circular in shape, measure 3-7/8 inches in diameter, and taper from a thickness of three-eighths of an inch at the center to about a quarter of an inch near the rounded edge. During a short period in the earlier years of the Survey's leveling the tablets set were made of aluminum. The softness of this metal, however, made them susceptible to damage, so that aluminum as a material for tablets was soon discarded. The earliest tablets set and those now being placed are made of bronze, and bronze is the material now specified for standard tablets. Each tablet is cast with a 3-inch shank extending from the center of its reverse side, by means of which it is cemented in place, and each bears an inscription on its face. The inscriptions on the tablets already placed differ in many details, because of changes in design at various times. The face of every tablet, however, is cast with the words "U. S. Geological Survey", a cross at the center, which indicates the fiducial point for position or elevation, and the words "Elevation above sea." On some tablets the inscription indicates that they were set in connection with a project in which a State or other organization cooperated; on some the inscription includes a triangle, which signifies a located point, enclosing the cross at the center. Tablets bearing a triangle enclosing a cross may be used not only as benchmarks but also as triangulation- or traverse-station marks.



GEOLOGICAL SURVEY BENCHMARKS.

A and B, Standard tablets, principal benchmarks, used where masonry or rock is available to hold them. A is used in cooperating States; the State name is inserted at *a*. C, Under side of A and B, showing shank used to hold tablet in place. D and E, Two views of copper nail and copper washer, a supplementary benchmark, used for points lying between those marked by standard tablets. F, Standard iron post fitted with bronze cap similar in design to the standard tablet, formerly used where no rock or masonry was available; superseded by concrete post with tablet set in top.

The inscription on most of the tablets already set includes the warning "250 dollars fine for disturbing this mark", but the latest design omits this phrase and adds the sentence "For information write the Director, Washington, D. C."

If the tablet is to mark a transit-traverse station, the traverseman stamps it with letters indicating this use of it, such as "Prim. Trav. Sta.", "P.T.S.", or "T.T.", as well as his own identifying letter or letters, the serial number of the station, and the year, using steel dies. If the tablet is set as a benchmark, the levelman stamps it with his identifying letter or letters, the serial number, and the year. He may at the same time stamp upon it with steel dies the figures of elevation to the nearest foot, or these figures may be added later. Tablets that serve as benchmarks may have been set as such or they may have been set to mark traverse stations. Thus some of them serve a dual purpose, but each has stamped upon it the date and the identifying designation of only the engineer who established it.

The figures of elevation that appear on a tablet are usually those determined by field computation only. It is sometimes found, therefore, that they do not represent the latest information. This has happened either because they refer to some independent datum temporarily adopted before first-order trunk lines made standard datum available, or because a later adjustment made in the office has rendered necessary an appreciable change in the figures as determined in the field. In June 1938 a field party was organized and charged with the responsibility of stamping figures of elevation, to the nearest foot, on the permanent benchmarks established in the State by the Geological Survey. Thus, these figures may appear stamped on the tablets in addition to the identifying letters and numbers quoted in the printed descriptions. It is assumed that engineers and others who require accurate figures of elevation for the marks will use those printed in a bulletin such as this one, instead of accepting the stamped figures. If the appropriate bulletin is not conveniently accessible, a request for the desired information may be addressed to the Director, Geological Survey, United States Department of the Interior, Washington, D. C.

The tablets, of whatever style, are cemented into holes drilled in solid rocks or in the walls of public buildings, bridge abutments, or other masonry structures. Where masonry or rock is not available, the tablets are set in the tops of reinforced concrete posts, which may be either precast or mixed and molded at the selected site. The posts are about 8 inches square or 8 inches in diameter at the top and larger at the base. They vary in length from 36 to 48 inches and are generally set so as to project about 6 inches above ground.

Antedating the concrete posts which are now constructed to hold the tablets, in places where masonry or rock is not available, are wrought-iron posts, to the tops of which are riveted bronze caps of similar design to the tablets. These iron posts measure 4 feet in length and $3\frac{1}{2}$ inches in outer diameter and are set about 3 feet in the ground. The bottom of the post spreads out to a width of about 10 inches in order to give it a firm footing in the earth. No iron posts have been set in recent years. They have proved impracticable, as they are easily disturbed and are subject to rust at the ground level, which eventually destroys them.

The third form of principal benchmark, set only in the early leveling, is a copper bolt, designed to be wedged into a drill hole in rock or masonry and perhaps further secured with lead or cement. This bolt measures 4 inches in length and 1 inch in diam-

eter and has a slot at one end into which fits a brass wedge. The wedge serves to expand the bottom end of the bolt, so that after the bolt has been driven to almost its full length into the hole, it cannot be easily removed. The exposed end of the bolt bears an appropriate inscription, stamped upon it with steel dies. This inscription is made up of the letters "U S G S", the letters indicating the datum used, the abbreviated word "Ft.", and the figures of elevation.

Supplementary benchmarks are of many kinds. One kind consists of a copper nail $1\frac{1}{2}$ inches long supplied with a copper washer seven-eighths of an inch in diameter, through which the nail is driven into the root of a tree or some timber structure or cemented into rock after bending the point. The designation "U S G S B M" is stamped on each washer, and on some washers the abbreviation of the name of the cooperating State is added. Another kind of supplementary benchmark is a chiseled square, used on the horizontal surface of rocks or masonry structures, or a chiseled cross, used on a vertical surface. Nails, track spikes, and small, capped iron pipes also serve as supplementary benchmarks, and occasionally easily described and recognized points, such as doorsills and tops of hydrants, are so used.

Preservation and restoration of benchmarks.—Any person who finds that a principal benchmark has been damaged, disturbed, or destroyed or that it should be reset or re-described on account of highway or other improvements will render a public service by communicating the facts to the Director, Geological Survey, United States Department of the Interior, Washington, D. C., before taking any action affecting the location or elevation of the mark. A proper form, accompanied by a return-addressed, franked envelope, will be sent for use in reporting the action taken and in recording the revised description of the mark, if any, and the notes made in obtaining the revised elevation.

Datum.—All elevations determined by the United States Geological Survey and those determined by the United States Coast and Geodetic Survey for inland mapping are referred to mean sea level, which is the level that the sea would assume if the influence of winds, tides, and currents were eliminated. This level is not the elevation determined from the mean of the highest and lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level. Mean sea level is the average height of the water, all stages of the tide being considered. It is determined from observations made by means of tidal gages placed at stations where local conditions, such as those due to long, narrow bays, rivers, and like features, will not affect the height of the water. To obtain even approximately correct results these observations must extend over at least one lunar month, and if accuracy is desired they must extend over several years. At ocean stations the half-tide level and the mean sea level usually differ but little. It is assumed that there is no difference between the mean sea levels determined from observations made in the Atlantic Ocean, the Gulf of Mexico, and the Pacific Ocean.*

Location of the area.—Northwestern Missouri, as the term is used in this bulletin and as the subject of part 4 of the bulletin, is that section of the State lying north of latitude $39^{\circ}30'$ and west of longitude $93^{\circ}15'$ (See fig. 7.)

* See Jones, E. L., *Hypsometry*—Use of mean sea level as the datum for elevations: U. S. Coast and Geodetic Survey Special Pub. 41, 1917. Manual of tide observations: U. S. Coast and Geodetic Survey Special Pub. 196, 1935.

Index map.—The accompanying index map of northwestern Missouri (fig. 8) shows the relative position of the quadrangle areas which make up this section. A quadrangle is the unit of topographic survey adopted by the Geological Survey for dividing the area of the United States. All the quadrangles referred to in listing the results of leveling in northwestern Missouri measure 15 minutes in latitude by 15 minutes in longitude. With the name of each quadrangle, as shown on the map, is given the number of the page in this bulletin on which begins the list of descriptions of benchmarks in that quadrangle.

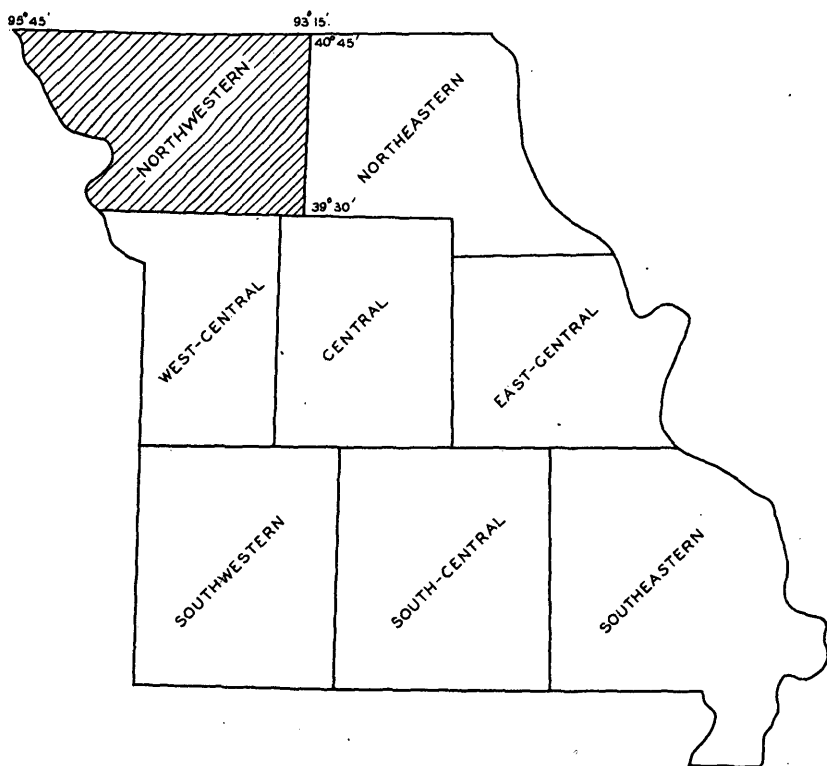


Figure 7.—Outline map of Missouri showing the names and relative position of the eight sections covered by the parts of Bulletin 898, on spirit leveling in the State. The shaded portion represents the section designated as northwestern Missouri.

Maps of many of the quadrangles in northwestern Missouri may be purchased at 10 cents each retail or 6 cents each in lots of 50 or more. Prepayment is required and may be made by money order, payable to the Director, Geological Survey, United States Department of the Interior, or in cash—the exact amount, at sender's risk. Postage stamps should not be sent.

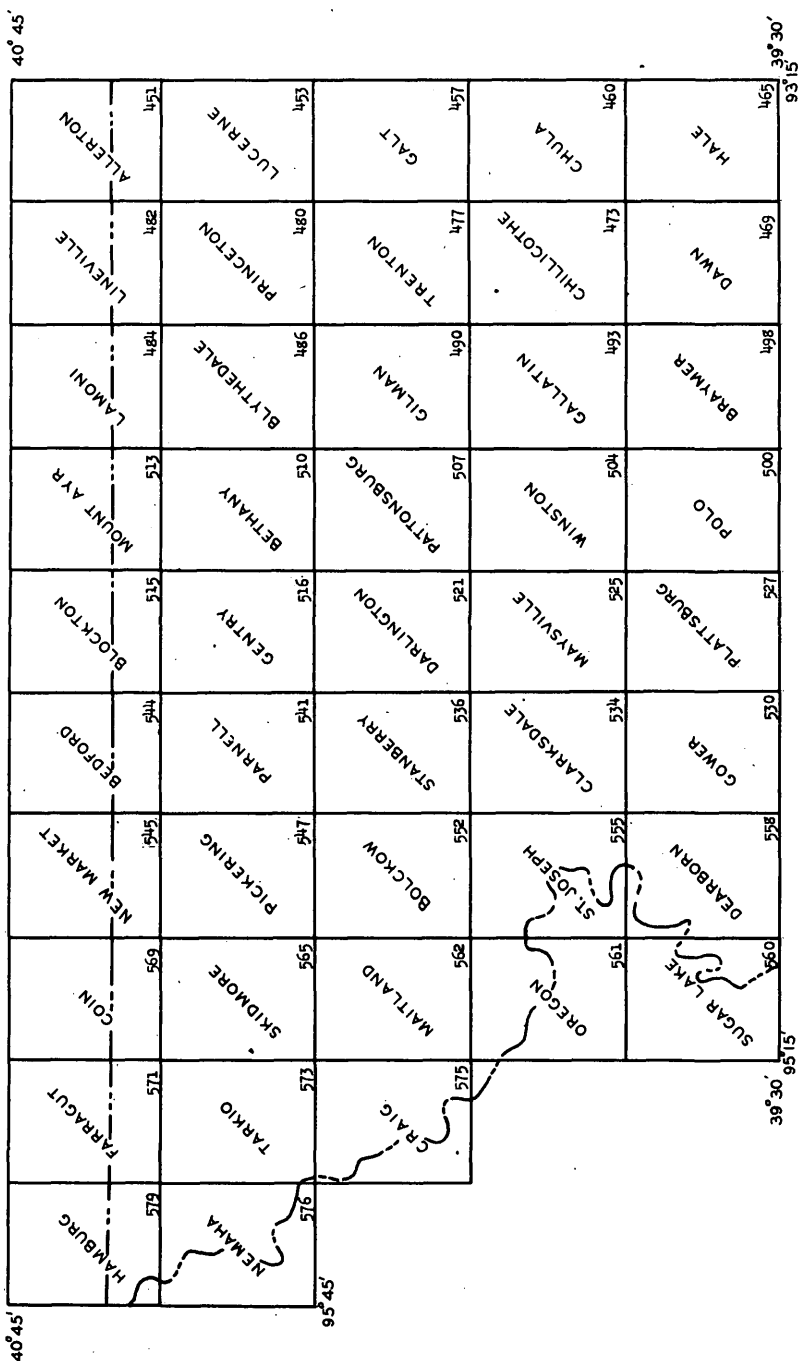


Figure 8.—Index map of northwestern Missouri showing the quadrangles into which this section of the State has been divided.

Diagrams of quadrangles showing routes of leveling.—At the beginning of the list of benchmark descriptions for each quadrangle is a diagram showing the routes followed by the lines of leveling in and immediately adjacent to that quadrangle. To aid in identifying these routes, the boundaries of the townships and ranges in the quadrangle are indicated by light dashed lines, and the designations of these land subdivisions are given on the margin. The principal settlements are also shown. The solid lines represent the routes of the third-order leveling of the United States Geological Survey. To each of these is assigned a number, and the same number is assigned to the list of descriptions of benchmarks along that route. The heavy dashed lines represent the first-order leveling of the United States Coast and Geodetic Survey.

Personnel.—The leveling of the United States Geological Survey in northwestern Missouri was done under the supervision of the several chief geographers or chief topographic engineers who were in administrative charge of the topographic branch during the years when the lines were run. Included in the heading that precedes the descriptions of benchmarks established along any line of leveling are the name of the levelman who ran that line and the date when it was run, or, if this information has been omitted, it may be assumed that the levelman and date are the same as those indicated for the line immediately preceding. The adjustment of the third-order level net was done in the Washington office mainly by V. S. Benfell, computer. The revision, correlation, and compilation of the descriptions of benchmarks was done in the field office at Rolla, Mo., by employees of the Works Progress Administration of Missouri, who also assembled the lists and made new typewritten copies of them suitable for reproduction by photography. The work at Rolla was sponsored by the Missouri Geological Survey and Water Resources and was in charge of W. R. Broadus, of the United States Geological Survey. The work in the Washington office was under the supervision of R. M. Wilson, chief of the section of computing, under the general direction of J. G. Staack, chief topographic engineer.



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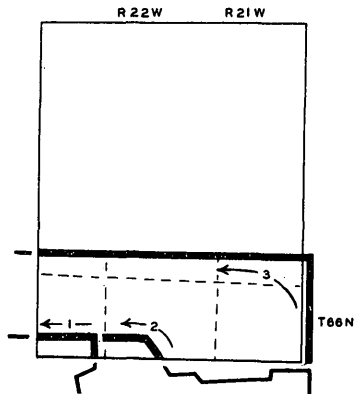
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Ravenwood triangulation sta.	543		
Rawls, J. M., leveling by	497, 505, 507-508, 528	Wallace	559
Ridgeway	511	Weatherby	507
Rising Sun School	488, 532	Weldon River	483
Rock Creek	574, 577	Westboro	572
Rockport	577	West High Creek	579
Rosendale	553	West Locust Creek	453
Rowe triangulation sta	545	West Medicine Creek	451
Rushville	560	West Tarkio Creek	572
		Whaley, F. L., leveling by	461-463, 465, 500, 501-503, 505
St. Joe triangulation sta.	556	Whaley School	459
St. Joseph	556-557, 558	Whaley triangulation sta	459
St. Joseph quadrangle	555-557	Wheeling	461
Saline	482	White Cloud Creek	554
Sampsel	474, 475	White Farm School	511
Sampson Creek	500	White Lily School	566
Sand Creek	566	Whitesville	538
Savannah	556	Whitten	524
Saxton	558-559	Wiederholt triangulation sta	540
Scope of report	III	Wildcat Creek	540
Senseney, H. S., leveling by	575-576	Williams School	478
Shelburn Church	476	Winston quadrangle	504-507
Sheridan	545	Wintersville Church	455
Sherwood School	531	Wood School	561
Shoal Creek	501, 503, 528	Works Progress Administration, co-operation with	III, IX
Skidmore quadrangle	565-568		
South Dale School	572		
Spickard	478-479		
Spring Hill (village)	474, 475		
Stanberry	539		
		Zion Church	475

THIRD-ORDER LEVELING

ALLERTON QUADRANGLE*
(Latitude 40°30'-40°45'; longitude 93°15'-93°30')

Mercer and Putnam Counties



1. IN SOUTHWEST CORNER OF QUADRANGLE (by Cornish Beck in 1936) (Continued from Lucerne quadrangle; see line 5.)

	Feet
T. 66 N., R. 23 W., quarter cor. between secs. 24 and 25, 40 ft. N. and 30 ft. E. from T-rd. E., on high bank, inside fence, in concrete post; standard tablet stamped "Prim Trav Sta No 76 L S 1923 Mo"	1,047.257
T. 66 N., R. 23 W., in SE 1/4 sec. 23, 26 ft. N. and 85 ft. E. from T-rd. E., in root on NE. side of twin wild-cherry tree; copper nail and washer	1,085.95
County Route M at curve and rd. S., 70 ft. S. and 36 ft. E. from, on right-of-way post; chiseled cross	1,091.99
T. 66 N., R. 23 W., in NW 1/4 sec. 23, 500 ft. SW. of cemetery, 36 ft. N. and 7 ft. W. from County Route M at rd. junction, in fence post; copper nail and washer	1,079.19
Crossroads, 32 ft. N. and 22 ft. W. from, in corner fence post; crossed nails	1,005.62
T. 66 N., R. 23 W., in NW 1/4 sec. 22, on NE. corner of bridge; chiseled square	963.38

(Continued in Lineville quadrangle; see line 3.)

2. WEST ALONG WEST PART OF SOUTH BORDER OF QUADRANGLE (by D. R. Stewart in 1936) (Continued from Lucerne quadrangle; see line 2.)

T. 66 N., R. 22 W., cor secs. 21, 22, 27, and 28, 22 ft. N. and 50 ft. W. from T-rd. W. on Mercer-Putnam county line, in concrete post; standard tablet stamped "Prim Trav Sta No 77 L S 1923 Mo"	995.204
T. 66 N., R. 22 W., cor. secs. 20, 21, 28, and 29, 25 ft. N. and 12 ft. E. from crossroads, on N. end of E. head wall of concrete culvert; chiseled square	1,064.06
T. 66 N., R. 22 W., W. sixteenth cor. between secs. 20 and 29, near crossroads, at SW. corner of farmhouse of F. A. Snyder, on SE. corner of concrete well platform; chiseled square	1,066.77
Bridge over West Medicine Creek, at SE. corner of; bolt head	966.31
T. 66 N., Rs. 22 and 23 W., cor. secs. 19, 24, 25, and 30, 12 ft. S. and 25 ft. W. from T-rd. S., on N. end of W. head wall of concrete culvert; chiseled square	1,024.16

3. FROM POINT NEAR SOUTHEAST CORNER OF QUADRANGLE NORTH, THENCE WEST ALONG IOWA-MISSOURI STATE LINE TO WEST BORDER, INCLUDING THAT PART OF THE LINE IN SEYMOUR QUADRANGLE (by D. R. Stewart and J. J. Crane in 1936-37)

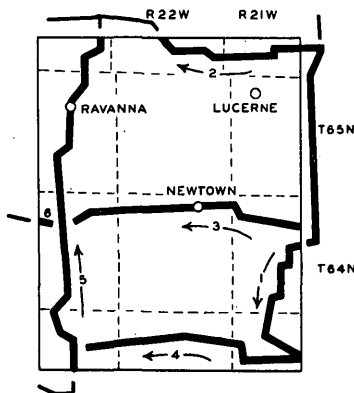
T. 66 N., R. 21 W., quarter cor. between secs. 13 and 14, 60 ft. N. and 15 ft. E. from T-rd. W., in root on SW. side of 27-in. cottonwood tree; copper nail and washer	1,050.02
Mount Hope Church, at crossroads, on NE. corner of concrete porch; chiseled square	1,073.77
T. 66 N., R. 21 W., quarter cor. between secs. 11 and 14, 46 ft. S. and 24 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 59 J J 1936"	1,045.172
Bridge, first one S. of T-rd. W., on E. end of iron cross beam; painted square	969.81

*The greater part of this quadrangle lies in Iowa.

	Feet
T. 66 N., R. 21 W., quarter cor. between secs. 2 and 11, 25 ft. S. and 35 ft. E. from T-rd. E., in root on NW. side of 12-in. maple tree; copper nail and washer	1,054.18
T-rd. W., 45 ft. N. and 20 ft. W. from, in root on SW. side of 12-in. hedge tree; bent nails	1,074.25
T. 66 N., R. 21 W., quarter cor. between secs. 2 and 3, 50 ft. S. of T-rd. N., in root on W. side of hedge stump; copper nail and washer	1,074.37
T. 67 N., R. 21 W., S. quarter cor. sec. 35, 95 ft. S. and 130 ft. E. from T-rd. N., at cellar, on W. side of top concrete step; chiseled square	1,082.55
T. 67 N., R. 21 W., quarter cor. between secs. 34 and 35, 20 ft. N. of rd. corner S.-W., in concrete post; standard tablet stamped "T T 58 J J 1936"	1,049.684
T. 67 N., R. 21 W., W. sixteenth cor. sec. 34, 20 ft. N. and 230 ft. E. from T-rd. N., in root on N. side of 15-in. willow tree; copper nail and washer	1,061.46
T. 67 N., R. 21 W., E. (? W.) sixteenth cor. between secs. 27 and 34, 25 ft. S. and 240 ft. W. from T-rd. S., in root on SW. side of 18-in. hedge tree; copper nail and washer	1,091.18
T. 67 N., R. 21 W., N. cor. secs. 27 and 28, on Iowa-Mo. State line, 55 ft. S. and 205 ft. W. from T-rd. W., in root on NW. side of 28-in. maple tree; copper nail and washer	1,093.07
T-rd. S., 20 ft. N. and 85 ft. W. from, in root on E. side of small, twin hedge tree; copper nail and washer	1,063.22
T. 67 N., R. 21 W., N. quarter cor. sec. 28, on Iowa-Mo. State line, 20 ft. N. and 25 ft. W. from T-rd. S., in root on N. side of 14-in. cottonwood tree; copper nail and washer	1,056.97
T. 67 N., R. 21 W., S. cor. secs. 20 and 21, on Iowa-Mo. State line, 36 ft. N. and 28 ft. W. from T-rd. N., in concrete post; standard tablet stamped "T T 57 J J 1936"	1,037.783
T. 67 N., R. 21 W., near E. sixteenth cor. on N. line sec. 30, on Iowa-Mo. State line, 15 ft. N. and 70 ft. W. from T-rd. N., in root on E. side of small, twin oak tree; copper nail and washer	993.38
T. 67 N., Rs. 21 and 22 W., N. cor. secs. 25 and 30, on Iowa-Mo. State line, 450 ft. S. and 30 ft. W. from T-rd. E., in root on N. side of 22-in. maple tree; copper nail and washer	1,070.68
Crossroads, 100 ft. N. and 15 ft. W. from, in root on W. side of 14-in. elm tree; crossed nails	1,041.70
Tps. 66 and 67 N., Rs. 21 and 22 W., approximate cor. of, 24 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 56 J J 1936"	992.394
Tps. 66 and 67 N., R. 22 W., on line between secs. 2 and 35, 10 ft. N. and 80 ft. E. from crossroads, in root on W. side of 20-in. elm tree; copper nail and washer	1,030.91
T-rd. W., 100 ft. N. and 15 ft. E. from, in root on NW. side of 24-in. twin maple tree; crossed nails	1,021.14
T. 67 N., R. 22 W., N. quarter cor. sec. 26, 130 ft. S. of Iowa-Mo. State line, 60 (? 15) ft. S. and 15 (? 20) ft. E. from T-rd. S., in concrete post; standard tablet designated "T T 52 J J 1936" (stamped "T T 53 J J 1936")	1,025.693
T. 67 N., R. 22 W., near W. sixteenth cor. on N. line sec. 27, on Iowa-Mo. State line, 25 ft. S. and 80 ft. E. from T-rd. N., in root on N. side of 24-in. elm tree; copper nail and washer	1,033.14
T. 67 N., R. 22 W., N. cor. secs. 27 and 28, on Iowa-Mo. State line, at cor. of Mercer and Putnam Counties, 18 ft. N. and 10 ft. W. from T-rd. S., in root on N. side of 16-in. thorn tree; copper nail and washer	1,074.45
Iamo triangulation sta., 6 mi. E. of Lineville, on Iowa-Mo. State line, in SE 1/4 SE 1/4 sec. 20, T. 67 N., R. 22 W., 370 ft. W. of steel gate, 19 ft. N. of rd., in concrete post (buried 22 in. below surface of ground); U.S.C. & G.S. standard disk stamped "Iamo 1928"	1,097.678
Reference mark 1, 481 ft. E. of post, in concrete post; U.S.C. & G.S. standard disk stamped "Ref Mark No 1"	1,099.455
T-rd. S., 10 ft. N. and 60 ft. E. from, in fence line, in root on N. side of small mulberry tree; crossed nails	1,091.91
T. 67 N., R. 22 W., in NE 1/4 SE 1/4 sec. 30, on Iowa-Mo. State line, 18 ft. N. and 105 ft. E. from T-rd. S., in root on N. side of 8-in. willow tree; copper nail and washer	1,069.81
T. 67 N., R. 23 W., N. quarter cor. sec. 25, on Iowa-Mo. State line, 365 ft. S. and 23 ft. E. from T-rd. S., in root on E. side of 16-in. wild-cherry tree; copper nail and washer	1,094.46
T-rd. W., 105 ft. N. and 18 ft. W. from, in root on E. side of 24-in. elm tree; crossed nails	1,101.70
Lineville, 3.2 mi. E. of, in SW 1/4 SW 1/4 sec. 26, T. 67 N., R. 23 W., 440 ft. W. of T-rd. S., 21 ft. N. and 24 ft. E. from T-rd. N., in concrete post; standard tablet stamped "T T 50 J J 1936"	1,093.648
Lineville, 2.3 mi. E. of, quarter cor. between secs. 27 and 34, T. 67 N., R. 23 W., 90 ft. S. and 200 ft. E. from T-rd. S., in root on N. side of 30-in. bur-oak tree; copper nail and washer	1,004.48

(Continued in Lineville quadrangle; see line 5.)

LUCERNE QUADRANGLE
(Latitude 40°15'-40°30'; longitude 93°15'-93°30')
Grundy, Mercer, Putnam, and Sullivan Counties



1. SOUTH ALONG SOUTH PART OF EAST BORDER OF QUADRANGLE (by D. R. Stewart in 1936)

	Feet
T. 64 N., R. 21 W., quarter cor. between secs. 15 and 16, 130 ft. S. and 10 ft. E. from T-rd. S., on NE. wing wall of bridge; chiseled square	927.37
T-rd. E., on W. side of rd., in fence post; nail	1,012.99
T. 64 N., R. 21 W., 185 ft. E. of E. sixteenth cor. between secs. 21 and 28, 30 ft. N. and 28 ft. W. from T-rd. N., in SE. corner of schoolyard, in concrete post; standard tablet stamped "T T 1563 E R A 1935"	992.731
Bridge over creek, at SE. corner of, on iron sill; chiseled square	914.29
T-rd. W., 45 ft. S. and 15 ft. E. from, in root on SW. side of 12-in. elm tree; crossed nails	981.46
T. 64 N., R. 21 W., center of NE 1/4 sec. 33, 100 ft. N. (?) and 105 ft. S. (?) from T-rd. W., in root on NE. side of 12-in. walnut tree; copper nail and washer	973.37
Bridge over West Locust Creek, on first iron beam W. of NE. corner of; chiseled square	877.15
T. 64 N., R. 21 W., quarter cor. between secs. 32 and 33, 30 ft. N. and 10 ft. W. from T-rd. S., in base of telephone pole; spike	890.90
T. 63 N., R. 21 W., in SE 1/4 NE 1/4 sec. 5, on SW. wing wall of bridge over creek; chiseled square	886.50
T-rd. W., 15 ft. N. and 54 ft. E. from, in root on S. side of small, twin elm tree; crossed nails	963.03
T. 63 N., R. 21 W., quarter cor. between secs. 5 and 8, 85 ft. S. and 5 ft. E. from rd. corner E.-S., on E. end of concrete culvert; chiseled square	956.68
Harris triangulation sta., 4 mi. E. and 2 mi. S. from Harris, in NE 1/4 SW 1/4 sec. 8, T. 63 N., R. 21 W., 125 ft. SE. of SE. corner of Griffith School, 443 ft. W. of rd., 13 ft. N. of fence, in concrete post; U.S.C. & G.S. standard disk stamped "Harris 1928"	1,010.140
Reference mark, 175 ft. N. and 40 ft. E. from sta., in concrete post; U.S.C. & G.S. standard disk stamped "Harris No 3 1934"	1,003.626
T-rd. N., 15 ft. N. and 25 ft. W. from, on concrete foundation of corner fence post; chiseled square	991.94
T. 63 N., R. 21 W., near cor. secs. 8, 9, 16, and 17, at T-rd. S., on SW. head wall of large, abandoned concrete culvert; chiseled square	917.24
T. 63 N., R. 21 W., cor. secs. 16, 17, 20, and 21, 15 ft. N. and 15 ft. W. from crossroads, in root on W. side of large, twin maple tree; copper nail and washer	926.81
T. 63 N., R. 21 W., in SW 1/4 SW 1/4 sec. 15, 30 ft. N. and 160 ft. W. from W. end of bridge over West Locust Creek, in root on SE. side of large, twin elm tree; copper nail and washer	854.40

2. FROM POINT NEAR CENTER OF EAST BORDER OF QUADRANGLE NORTH TO NORTHEAST CORNER, THENCE WEST ALONG EAST HALF OF NORTH BORDER, INCLUDING THAT PART OF THE LINE IN BOYNTON QUADRANGLE

T. 64 N., R. 21 W., approximate quarter cor. between secs. 10 and 11, 36 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 1564 E R A 1935"	1,021.582
Reference mark, 50 ft. N. and 110 ft. W. from tablet, in root on N. side of 16-in. elm tree; copper nail and washer	1,017.47
T. 64 N., R. 21 W., N. cor. secs. 2 and 3, 80 ft. S. and 35 ft. E. from crossroads, in root on SE. side of large elm tree; copper nail and washer	1,027.32
T. 65 N., R. 21 W., cor. secs. 26, 27, 34, and 35, 10 ft. S. and 35 ft. W. from crossroads, in concrete post; standard tablet stamped "7 S 1936"	994.860

T. 65 N., R. 21 W., cor. secs. 22, 23, 26, and 27, 150 ft. N. and 65 ft. W. from T-rd. E., in front of farmhouse, on SE. corner of concrete sidewalk; chiseled square	Feet 1,050.39
T. 65 N., R. 21 W., cor. secs. 14, 15, 22, and 23, 10 ft. S. and 120 ft. E. from crossroads, on SW. wing wall of concrete culvert; chiseled square	1,006.94
Fry triangulation sta., 4 mi. SE. of Lucerne, in abandoned village of Terre Haute, in NE 1/4 NE 1/4 sec. 15, T. 65 N., R. 21 W., on property of Mrs. Fry, 82 ft. N. of rd., 26 ft. E. of E. fence, 62 ft. SE. of pine tree, in concrete post; U.S.C. & G.S. standard disk stamped "Fry 1928"	1,061.524
Reference mark, 55 ft. S. and 25 ft. W. from sta., in concrete post; U.S.C. & G.S. standard disk stamped "Fry No 2 1928"	1,060.936
T-rd. E., 125 ft. N. and 85 ft. W. from, at well, on SE. corner of concrete platform; chiseled square	1,056.17
T. 65 N., R. 21 W., cor. secs. 2, 3, 10, and 11, 85 ft. S. and 65 ft. E. from crossroads, in root on NW. side of 20-in. elm tree; copper nail and washer	1,026.57
T. 66 N., R. 21 W., in SE 1/4 SE 1/4 sec. 35, 80 ft. N. and 20 ft. W. from State Highway 4 at rd. N., in concrete post; standard tablet stamped "8 S 1936"	931.104
T. 66 N., R. 21 W., quarter cor. between secs. 26 and 35, 40 ft. S. and 30 ft. E. from crossroads, in root on SE. side of 24-in. black-oak tree; copper nail and washer	1,022.20
T. 66 N., R. 21 W., cor. secs. 25, 26, 35, and 36, 20 ft. N. and 75 ft. E. from T-rd. N., in root on SW. side of 8-in. wild-cherry tree; copper nail and washer	1,023.56
T. 66 N., R. 21 W., cor. secs. 23, 24, 25, and 26, 48 ft. S. and 18 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 60 J J 1936"	1,059.158
Reference mark, 200 ft. N. and 100 ft. W. from tablet, at cellar, on top of concrete doorway; chiseled square	1,067.53
T. 66 N., R. 21 W., quarter cor. between secs. 23 and 26, 10 ft. N. and 200 ft. E. from crossroads, on S. (? N.) side of rd., in root on N. side of 16-in. elm tree; copper nail and washer	986.98
T. 66 N., R. 21 W., in NE 1/4 NE 1/4 sec. 27, at small bridge, on SE. wing wall; chiseled square	965.92
T. 66 N., R. 21 W., near cor. secs. 21, 22, 27, and 28, 350 ft. S. and 40 ft. E. from County Route A at E-W. cross rd., in root on W. side of large elm tree; iron nail and washer	1,048.16
T. 66 N., R. 21 W., cor. secs. 27, 28, 33, and 34, 18 ft. S. and 33 ft. W. from County Route A at E-W. cross rd., in concrete post; standard tablet stamped "9 S 1936"	1,040.636
T. 66 N., R. 21 W., in SE 1/4 SW 1/4 sec. 29, 80 ft. N. and 35 ft. W. from crossing of Chicago, Milwaukee, St. Paul and Pacific R.R., on N. end of W. concrete head wall of culvert; chiseled square	908.69
T. 66 N., R. 21 W., quarter cor. between secs. 30 and 31, 45 ft. N. and 45 ft. E. from crossroads, at SW. corner of schoolhouse, in concrete post; standard tablet stamped "10 S 1936"	1,015.367
T. 66 N., R. 22 W., near quarter cor. between secs. 25 and 36, 30 ft. N. of rd. at hedge fence N., in root on W. side of 24-in. hedge tree; copper nail and washer	1,054.67 1,046.42
T-rd. E., 34 ft. N. and 20 ft. E. from, in telephone pole; spike	1,052.79
T. 66 N., R. 22 W., S. sixteenth cor. between secs. 25 and 26, 25 ft. S. and 25 ft. W. from T-rd. W., in telephone pole; spike	
T. 66 N., R. 22 W., S. sixteenth cor. between secs. 26 and 27, 25 ft. S. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "11 S 1937"	1,019.661
T. 66 N., R. 22 W., S. sixteenth cor. between secs. 27 and 28, 30 ft. S. and 75 ft. E. from T-rd. E., in root on S. side of small willow tree; copper nail and washer	1,000.39

(Continued in Allerton quadrangle; see line 2.)

3 WEST THROUGH MIDDLE OF QUADRANGLE (by D. R. Stewart and J. J. Crane in 1936-37)

T. 64 N., R. 21 W., E. sixteenth cor. sec. 9, 102 ft. N. and 30 ft. E. from crossroads, in root on S. side of 24-in. pin-oak tree; copper nail and washer	969.72
T. 64 N., R. 21 W., near E. sixteenth cor. sec. 8, 75 ft. N. and 35 ft. W. from W. end of bridge, in top of stump; crossed nails	911.33
T. 64 N., R. 21 W., N. sixteenth cor. between secs. 7 and 8, 30 ft. N. and 80 ft. E. from junction of rds. N., W., and SE., on SE. corner of front walk to farmhouse; chiseled square	1,029.03
T. 64 N., R. 21 W., quarter cor. between secs. 5 and 6, 25 ft. E. of T-rd. W., in concrete post; standard tablet stamped "T T 51 J J 1936"	989.424
T. 64 N., R. 22 W., center sec. 1, 40 ft. S. and 320 ft. E. from T-rd. S., in root on W. side of 22-in. white-oak tree; copper nail and washer	872.07
Bridge over Medicine Creek, at E. end of, in upstream side; painted bolt head	868.88
Newtown, 20 ft. S. and 20 ft. W. from crossroads, at Farmers Bank, in concrete step; chiseled square	951.16
Newtown, about 1 mi. W. of, cor. secs. 2, 3, 10, and 11, T. 64 N., R. 22 W., 50 ft. N. and 40 ft. W. from T-rd. W., in yard of W. D. Miller, in root on W. side of 30-in. hedge tree; copper nail and washer	993.94
Newtown, 1.5 mi. W. of, quarter cor. between secs. 3 and 10, T. 64 N., R. 22 W., 20 ft. N. and 33 ft. E. from T-rd. S. and private entrance N., in concrete post; standard tablet stamped "T T 44 J J 1936"	982.931
Rd. at curve, in front of dwelling of C. A. Scott, in root on E. side of 24-in. white-oak tree; crossed nails	1,041.15

	<u>Feet</u>
T. 64 N., R. 22 W., in NW 1/4 sec. 9, 15 ft. N. and 200 ft. W. from T-rd. S., in root on N. side of 24-in. white-oak tree; copper nail and washer	1,010.42
T. 64 N., R. 22 W., cor. secs. 5, 6, 7, and 8, 30 ft. N. and 60 ft. W. from T-rd. S., in root on S. side of 14-in. hickory tree; copper nail and washer	973.22
T-rd. N., 25 ft. N. and 150 ft. E. from, in root on S. side of 35-in. elm tree; crossed nails	975.29
T. 64 N., Rs. 22 and 23 W., cor. secs. 1, 6, 7, and 12, 10 mi. S. and E. of Princeton, 19 ft. S. and 82 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T 43 J J 1936"	1,023.74
T-rd. N., 20 ft. N. and 100 ft. W. from, in root on S. side of 14-in. elm tree; crossed nails	971.06
T. 64 N., R. 23 W., quarter cor. between secs. 2 and 11, 15 ft. N. and 180 ft. E. from County Route E at rd. E., in root on S. side of 20-in. maple tree; copper nail and washer	1,043.50
County Route E at rd. S., 75 ft. S. and 15 ft. E. from, in root on N. side of 8-in. wild-cherry tree; crossed nails	1,028.44

4. WEST ALONG SOUTH BORDER OF QUADRANGLE (by J. J. Crane in 1937)

T. 63 N., R. 21 W., near cor. secs. 17, 18, 19, and 20, 20 ft. N. and 350 ft. E. from crossroads, in root on W. side of 30-in. cottonwood tree; copper nail and washer	949.93
T. 63 N., R. 21 W., cor. secs. 7, 8, 17, and 18, 115 ft. N. and 50 ft. W. from T-rd. S., 30 ft. from dwelling of Wesley Baugher, in root on W. side of 17-in. locust tree; copper nail and washer	975.09
T. 63 N., R. 21 W., W. sixteenth cor. between secs. 7 and 18, 20 ft. S. and 50 ft. W. from crossroads, in root on N. side of 10-in. hickory tree; copper nail and washer	922.99
Crossroads, 15 ft. N. and 20 ft. W. from, in root on W. side of 30-in. elm tree; crossed nails	938.39
Wintersville Church, 50 ft. N. and 140 ft. W. from T-rd. W., on concrete step; chiseled square	940.12
T. 63 N., R. 22 W., S. sixteenth cor. between secs. 10 and 11, 40 ft. S. and 150 ft. E. from County Route B at E-W. cross rd., in root on E. side of 16-in. apple tree; copper nail and washer	883.78
T-rd. N., 30 ft. N. and 550 ft. W. from, in root on S. side of 30-in. cottonwood tree; crossed nails	949.90
T. 63 N., R. 22 W., in SW 1/4 sec. 10, 15 ft. W. of T-rd. E., iron post stamped "Prim Trav Sta No 15 1913 Mo"	946.669
T-rd. W., 100 ft. S. and 35 ft. E. from, in root on E. side of 12-in. elm tree; copper nail and washer	966.58
T. 63 N., R. 22 W., near quarter cor. between secs. 16 and 17, 30 ft. NW. of rd. corner, in front yard of H. C. Etherton, in root on E. side of 14-in. cedar tree; copper nail and washer	936.13
T. 63 N., R. 22 W., quarter cor. between secs. 17 and 18, 50 ft. S. and 30 ft. E. from crossroads, in NW. corner of yard of Carl Wilford, in root on N. side of 24-in. maple tree; copper nail and washer	990.08
T. 63 N., Rs. 22 and 23 W., quarter cor. between secs. 13 and 18, 20 ft. N. and 30 ft. E. from County Route J at rd. E., 3 ft. W. of fence corner, in concrete post; standard tablet stamped "2 C C 1937"	981.563
Highway at E-W. cross rd., 75 ft. N. and 40 ft. W. from, in root on S. side of 20-in. maple tree; copper nail and washer	972.81
T. 63 N., R. 23 W., cor. secs. 13, 14, 23, and 24, 10 ft. S. of dwelling of Walter Berry, 100 ft. N. of rd., in root on E. side of 14-in. maple tree; copper nail and washer	945.20

5. NORTH ALONG WEST BORDER OF QUADRANGLE (by Cornish Beck in 1936)
(Continued from Galt quadrangle; see line 1.)

T. 63 N., R. 23 W., cor. secs. 14, 15, 22, and 23, 114 ft. N. and 24 ft. E. from County Route C at rd. E., in root on W. side of 22-in. cherry tree; copper nail and washer	969.16
T. 63 N., R. 23 W., cor. secs. 10, 11, 14, and 15, on Grundy-Mercer county line, 51 ft. S. and 24 ft. E. from T-rd. S., in root on NW. side of twin box-elder tree; copper nail and washer	957.34
Crossroads, 23 ft. S. and 21 ft. W. from, in corner post; spike	970.70
T. 63 N., R. 23 W., near center sec. 10, 21 ft. N. and 246 ft. W. from T-rd. N., in front of dwelling on N. side of rd., in concrete post; standard tablet stamped "1406 E R A 1935"	928.276
T. 63 N., R. 23 W., about 0.1 mi. N. of center sec. 9, 165 ft. N. and 25 ft. W. from T-rd. E., in root on NE. side of 20-in. maple tree; copper nail and washer	982.33
T. 63 N., R. 23 W., center sec. 4, 4 ft. S. and 20 ft. W. from T-rd. E., in concrete post; U.S.C. & G.S. standard disk stamped "Olive No 2 1928"	1008.200
T. 63 N., R. 23 W., N. quarter cor. sec. 4, 28 ft. S. and 20 ft. E. from rd. junction, in W. side of telephone pole; nail	984.59
T-rd. S., 7 ft. N. and 22 ft. E. from, on N. side of iron pipe culvert; chiseled cross	995.22
T. 64 N., R. 23 W., cor. secs. 27, 28, 33, and 34, 0.2 mi. W. of crossroads, 31 ft. N. of rd., in barnyard, in root on SW. side of 26-in. mulberry tree; copper nail and washer	1017.73
T. 64 N., R. 23 W., cor. secs. 21, 22, 27, and 28, 33 ft. N. and 20 ft. W. from crossroads, 2 ft. E. of hedge fence, in concrete post; standard tablet stamped "1407 C W A 1934"	994.528
T-rd. W., 6 ft. S. and 30 ft. E. from, in W. side of 16-in. walnut tree; nail	1026.27
T. 64 N., R. 23 W., cor. secs. 15, 16, 21, and 22, 70 ft. N. and 39 ft. E. from T-rd. E., in root on SW. side of 32-in. maple tree; copper nail and washer	1041.16

	Feet
T. 64 N., R. 23 W., cor. secs. 9, 10, 15, and 16, 25 ft. W. of rd. at E.-W. fences, in corner fence post; spike	1,054.29
Princeton, 5 mi. E. and 2 mi. S. from, approximate cor. secs. 3, 4, 9, and 10, T. 64 N., R. 23 W., 32 ft. N. and 20 ft. W. from County Route E at rd. N., 32 ft. N. and 11 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "1408 1934"	1,032.467
T-rd. W., 60 ft. N. and 30 ft. E. from, in SW. side of 20-in. elm tree; crossed nails	1,048.67
Tps. 64 and 65 N., R. 23 W., cor. secs. 3, 4, 33, and 34, 270 ft. N. and 30 ft. E. from rd. at fence W., 30 ft. W. of barn, in root on S. side of 20-in. locust tree; copper nail and washer	1,013.82
T. 65 N., R. 23 W., E. sixteenth cor. between secs. 28 and 33, 21 ft. S. and 87 ft. E. from T-rd. N., in root on N. side of 10-in. elm tree; copper nail and washer	1,051.20
T-rd. E., 90 ft. N. and 25 ft. E. from, in W. side of 5-in. elm tree; crossed nails	1,057.05
Easter triangulation sta., 5 mi. E. and 1 mi. N. from Princeton, near S. sixteenth cor. between secs. 21 and 22, T. 65 N., R. 23 W., 21 ft. E. of sec. line, 2 ft. N. and 77 ft. W. from dwelling on property of J. H. Easter, in concrete post; U.S.C. & G.S. standard disk stamped "Easter 1928"	1,076.335
Reference mark 1, 465 meters (1,526 ft. paced distance) from sta. in azimuth 65°14'01", in concrete post; U.S.C. & G.S. standard disk stamped "R M No 1 Easter 1928"	1,071.667
T. 65 N., R. 23 W., on line between secs. 16 and 21, 111 ft. S. and 21 ft. W. from State Highway 4 at rd. S., in E. side of concrete corner post; bolt	1,080.05
T. 65 N., R. 23 W., on line between secs. 10 and 15, 18 ft. S. and 33 ft. W. from State Highway 4 at E.-W. cross rd., on head wall of culvert; chiseled square	1,056.22
Ravanna, at S. limits of, in NE 1/4 sec. 10, T. 65 N., R. 23 W., 150 ft. S. and 40 ft. W. from State Highway 4 at N.-S. cross rd., 52 ft. E. of highway at fence E., in concrete post; standard tablet stamped "1409 C W A 1934"	1,081.731
Ravanna, at NE. edge of, 27 ft. N. and 18 ft. E. from rd. corner W.-N., in W. side of power-line pole; spike	1,079.32
T. 65 N., R. 23 W., N. cor. secs. 2 and 3, 17 ft. S. and 40 ft. W. from crossroads, in root on SW. side of 12-in. walnut tree; crossed nails	1,085.48
T-rd. W., 15 ft. N. and 25 ft. E. from, in W. side of telephone pole; crossed nails	1,077.48
T. 66 N., R. 23 W., quarter cor. between secs. 26 and 35, 70 ft. N. and 35 ft. E. from crossroads, in root on W. side of 14-in. walnut tree; copper nail and washer	1,076.07
T. 66 N., R. 23 W., center sec. 26, 2.8 mi. N. of Ravanna, 36 ft. N. and 30 ft. E. from rd. corner S.-E., 48 ft. S. and 57 ft. E. from dwelling of Charles Little, in concrete post; standard tablet stamped "1410 C W A 1934"	1,091.547

(Continued in Allerton quadrangle; see line 1.)

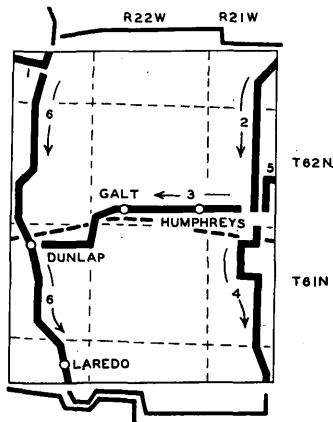
6. NEAR MIDDLE OF WEST BORDER OF QUADRANGLE (by Cornish Beck in 1937)

Princeton, about 2 mi. S. and 3.8 mi. E. from, near E. sixteenth cor. between secs. 5 and 8, T. 64 N., R. 23 W., 30 ft. S. and 16 ft. E. from County Route E at rd. SW., on top of right-of-way post; chiseled cross	1,037.13
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(Continued in Princeton quadrangle; see line 4.)

GALT QUADRANGLE
(Latitude 40°00'-40°15'; longitude 93°15'-93°30')

Grundy, Linn, and Sullivan Counties



1. IN NORTHWEST CORNER OF QUADRANGLE (by Cornish Beck in 1936)
(Continued from Trenton quadrangle; see line 4.)

	<u>Feet</u>
T. 63 N., R. 23 W., near quarter cor. between secs. 20 and 21, 10 ft. N. and 40 ft. E. from NE. corner of bridge, in root on S. side of 14-in. oak tree; copper nail and washer	854.01
T. 63 N., R. 23 W., quarter cor. between secs. 21 and 22, 300 ft. N. and 7 ft. W. from crossroads, on SW. corner of S. sill of bridge; painted square	863.24
T. 63 N., R. 23 W., near center sec. 22, 900 ft. S. of crossroads, on E. side of rd. in front of dwelling of James Batson; iron post stamped "Prim Trav Sta No 14 1913 Mo"	972.278
T-rd. E., 62 ft. N. and 25 ft. E. from, in SE. side of 14-in. elm tree; bent nail	935.59

(Continued in Lucerne quadrangle; see line 5.)

2. SOUTH ALONG NORTH HALF OF EAST BORDER OF QUADRANGLE (by H. B. Pyle in 1936-37)

T. 63 N., R. 21 W., cor. secs. 20, 21, 28, and 29, 210 ft. S. and 300 ft. E. from crossroads, in yard of Prairie Dale School, in concrete post; standard tablet stamped "769 C W A 1934"	951.446
T. 63 N., R. 21 W., N. sixteenth cor. sec. 28, 28 ft. W. of NW. corner of farmhouse of R. F. Scott, 30 ft. E. of rd., in root on SW. side of 20-in. pine tree; copper nail and washer	954.88
T-rd. E., 25 ft. N. and 15 ft. W. from, on top of concrete fence post; chiseled square	917.21
T. 63 N., R. 21 W., quarter cor. between secs. 28 and 33, 10 ft. W. of N.-S. rd., 36 ft. E. of NE. corner of Caldwell farmhouse, in root on SE. side of 20-in. elm tree; copper nail and washer	900.23
Steel bridge over drain, on NE. abutment; chiseled square	868.07
Tps. 62 and 63 N., R. 21 W., approximate quarter cor. between secs. 4 and 33, 110 ft. N. and 15 ft. E. from T-rd. E., in root on W. side of 34-in. cottonwood tree; copper nail and washer	918.85
T. 62 N., R. 21 W., about 0.1 mi. E. of N. sixteenth cor. sec. 4, 400 ft. NW. of dwelling of R. S. Bartimus, 5 ft. N. and 25 ft. W. from rd. at fences E. and W., in concrete post; standard tablet stamped "770 C W A 1934"	881.734
T-rd. S., 225 ft. S. of, on NE. abutment of wooden bridge; chiseled square	825.76
T. 62 N., R. 21 W., quarter cor. between secs. 4 and 9, 40 ft. N. and 30 ft. E. from rd. corner S.-E., in SW. corner of farmyard of H. Hatcher, in root on E. side of 30-in. box-elder tree; copper nail and washer	914.21
Steel bridge over drain, on NW. abutment; chiseled square	851.15
T-rd. W., on SE. corner of concrete culvert; chiseled square	898.40
T. 62 N., R. 21 W., near E. sixteenth cor. between secs. 9 and 16, 45 ft. E. of rd., 10 ft. E. of N.-S. fence, in root on S. side of 20-in. elm tree; copper nail and washer	851.07
Crossroads, 10 ft. E. of, on NE. abutment of bridge over drain; chiseled square	873.43
T. 62 N., R. 21 W., quarter cor. between secs. 16 and 21, 445 ft. S. and 23 ft. E. from rd. at fences E. and W., 35 ft. E. of rd., in concrete post; standard tablet stamped "771 C W A 1934"	943.091
T. 62 N., R. 21 W., center sec. 21, 65 ft. S. and 25 ft. W. from T-rd. N., in root on W. side of 24-in. walnut tree; copper nail and washer	866.89
T. 62 N., R. 21 W., center sec. 28, 10 ft. N. and 125 ft. E. from T-rd. S., in middle pier on N. side of wooden bridge; copper nail and washer	877.01

	<u>Feet</u>
Abandoned T-rd. E., 180 ft. S. and 10 ft. E. from, in NE. corner of wooden bridge over drain; copper nail	833.72
State Highway 6 at cross rd., 30 ft. S. and 10 ft. E. from, on E. head wall of concrete culvert; chiseled square	904.86
T. 62 N., R. 21 W., 8 ft. N. and 23 ft. E. from center sec. 33, 250 ft. S. of State Highway 6 at cross rd., on E. side of rd., in concrete post; standard tablet stamped "772 C W A 1934"	918.171

3. WEST THROUGH MIDDLE OF QUADRANGLE

Concrete culvert, on N. head wall; chiseled square	903.63
T. 62 N., R. 21 W., center sec. 32, 25 ft. S. of State Highway 6, on S. head wall of concrete culvert; chiseled square	894.11
State Highway 6 at cross rd., 35 ft. S. and 25 ft. E. from, on E. head wall of concrete culvert; chiseled square	945.48
T. 62 N., R. 21 W., in S 1/2 sec. 31, 35 ft. S. and 60 ft. E. from State Highway 6 at rd. S., on S. head wall of concrete culvert; chiseled square	878.92
State Highway 6 at cross rd. in Humphreys, 20 ft. S. and 15 ft. E. from, on E. head wall of concrete culvert; chiseled square	935.65
Humphreys, in SE 1/4 SW 1/4 sec. 36, T. 62 N., R. 22 W., 50 ft. S. and 140 ft. W. from State Highway 6 at cross rd., in concrete post; standard tablet stamped "782 C W A 1934"	928.041
State Highway 6 at cross rd., 25 ft. N. and 20 ft. E. from, on E. head wall of concrete culvert; chiseled square	909.56
Junction of rd. N., 60 ft. N. and 15 ft. W. from, on W. head wall of concrete culvert; chiseled square	922.94
T. 62 N., R. 22 W., 600 ft. E. of N. sixteenth cor. sec. 35, 25 ft. S. of State Highway 6, on S. head wall of concrete culvert; chiseled square	854.40
U.S.C. & G.S. standard disk stamped "N 17 1933"	860.487
Concrete culvert, on S. head wall; chiseled square	842.16
U.S.C. & G.S. standard disk stamped "P 17 1933"	793.512
Concrete bridge over Chicago, Milwaukee, St. Paul and Pacific R.R., on NW. abutment; chiseled square	829.25
Galt, 0.8 mi. E. of, E. sixteenth cor. sec. 33, T. 62 N., R. 22 W., 1,190 ft. W. of State Highway 6 at cross rd., in concrete post; standard tablet stamped "783 C W A 1934"	851.495
Concrete bridge, on NE. wing wall; chiseled square	793.59
Galt, at W. edge of, 660 ft. E. of N. sixteenth cor. sec. 32, T. 62 N., R. 22 W., 21 ft. S. and 25 ft. E. from State Highway 6 at rd. S., on S. head wall of concrete culvert; chiseled square	854.04
Concrete culvert, on N. head wall; chiseled square	852.05
T. 62 N., R. 22 W., 528 ft. W. of S. sixteenth cor. between secs. 31 and 32, 30 ft. N. of State Highway 6, on N. head wall of concrete culvert; chiseled square	869.28
Junction of rd. S., 20 ft. S. and 60 ft. E. from, on S. head wall of concrete culvert; chiseled square	940.55
Tps. 61 and 62 N., Rs. 22 and 23 W., 740 ft. N. and 610 ft. E. from cor., on State Highway 6, 510 ft. W. of junction of rd. S., 38 ft. N. of highway, in concrete post; standard tablet stamped "784 C W A 1934"	953.755
Junction of rd. E., 15 ft. N. and 65 ft. E. from, on front step of concrete walk to farmhouse; chiseled square	943.52
T. 61 N., R. 22 and 23 W., 220 ft. W. of N. sixteenth cor. between secs. 1 and 6, 25 ft. W. of rd., in fence line, in root on N. side of 30-in. locust tree; copper nail and washer	918.97
T-rd. W., 70 ft. S. and 20 ft. W. from, in root on NE. side of 36-in. cottonwood tree; crossed nails	928.94
T. 61 N., R. 23 W., E. quarter cor. sec. 12, 225 ft. W. of T-rd. W., 12 ft. S. of rd., on SE. abutment of bridge over drain; chiseled square	837.78
Iron pipe culvert, on N. end of; chiseled square	909.48
T. 61 N., R. 23 W., 2 ft. S. and 33 ft. W. from N. sixteenth cor. sec. 12, 21 ft. S. of rd., in root on SW. side of 14-in. hedge tree; copper nail and washer	914.85
Crossroads, 25 ft. N. and 30 ft. E. from, in root on N. side of 14-in. locust tree; crossed nails	937.04
Dunlap triangulation sta., 0.5 mi. S. and 2 mi. E. from Dunlap, 40 ft. E. of N. sixteenth cor. between secs. 11 and 12, T. 61 N., R. 23 W., on land owned by Fisher and Callahan, 50 ft. E. of rd., 143 ft. NW. of NW. corner of dwelling, 18 ft. E. of fence, in concrete post; U.S.C. & G.S. standard disk stamped "Dunlap 1928"	937.488
Reference mark 2, 20 meters (66 ft.) from sta. in azimuth 113°16', 18 ft. W. of rd., 3 ft. E. of fence, in concrete post; U.S.C. & G.S. standard disk stamped "Dunlap R M No 2 1928"	938.532
State Highway 6 at cross rd. and rd. W., 30 ft. S. and 30 ft. W. from, on W. head wall of concrete culvert; chiseled square	907.54
T. 61 N., R. 23 W., W. sixteenth cor. between secs. 2 and 11, 21 ft. S. and 50 ft. E. from T-rd. N., in root on NW. side of 14-in. elm tree; copper nail and washer	917.26
T. 61 N., R. 23 W., near cor. secs. 3, 4, 9, and 10, 165 ft. E. of T-rd. N., 75 ft. W. of T-rd. S., 10 ft. N. of rd., on NW. corner of steel bridge over drain; chiseled square	807.32
Dunlap, 475 ft. E. of Quincy, Omaha & Kansas City R.R. sta., 22 ft. N. of track, 15 ft. E. of rd., 5 ft. from crossing signpost; iron post stamped "Prim Trav Sta No 13 1913 Mo"	831.918
U.S.C. & G.S. standard disk stamped "T 17 1933"	833.072

4. SOUTH ALONG SOUTH HALF OF EAST BORDER OF QUADRANGLE (by H. B. Pyle and P. Y. Brown in 1937)

	Feet
T-rd. E., 15 ft. S. and 18 ft. E. from, on S. head wall of concrete culvert; chiseled square	861.76
T. 61 N., R. 21 W., N. sixteenth cor. between secs. 3 and 4, 12 ft. S. and 85 ft. W. from T-rd. W., in root on N. side of 12-in. wild-cherry tree; copper nail and washer	856.55
U.S.C. & G.S. standard disk stamped "L 17 1933"	813.384
T. 61 N., R. 21 W., on line between secs. 3 and 4, 60 ft. S. and 570 ft. W. from T-rd. W., 35 ft. S. of fence, in root on N. side of 48-in. elm tree; copper nail and washer	851.93
T. 61 N., R. 21 W., near quarter cor. between secs. 4 and 9, 15 ft. N. of rd., in root on SW. side of 40-in. elm tree; copper nail and washer	913.27
T. 61 N., R. 21 W., W. sixteenth cor. between secs. 5 and 8, 30 ft. N. and 25 ft. W. from T-rd. N., in top of hedge stump; copper nail and washer	951.24
T-rd. E., 95 ft. S. and 15 ft. E. from, on E. end of iron pipe culvert; chiseled square	939.32
Whaley triangulation sta., 2 mi. S. and 1.5 mi. E. from Humphreys, near quarter cor. between secs. 7 and 8, T. 61 N., R. 21 W., on land belonging to Higgins-McDuff Land Company, 164 ft. NE. of NE. corner of Whaley School, 98 ft. E. of N.-S. rd., 14 ft. S. of old rd., in concrete post; U.S.C. & G.S. standard disk stamped "Whaley 1928"	952.948
Reference mark 3, 120 ft. N. and 18 ft. E. from T-rd. W., in concrete post; U.S.C. & G.S. standard disk stamped "Whaley Reference Mark No 3"	951.310
T. 61 N., R. 21 W., N. sixteenth cor. between secs. 17 and 18, 300 ft. N. and 70 ft. W. from crossroads, 25 ft. S. of SE. corner of farmhouse, in root on S. side of 16-in. maple tree; copper nail and washer	940.08
T. 61 N., R. 21 W., N. sixteenth cor. between secs. 16 and 17, 60 ft. S. and 40 ft. W. from T-rd. W., in root on W. side of 30-in. elm tree; copper nail and washer	899.70
T. 61 N., R. 21 W., cor. secs. 16, 17, 20, and 21, 130 ft. W. of crossroads, 40 ft. N. of rd., on SW. corner of concrete step in front of Hamilton Church; chiseled square	914.45
T. 61 N., R. 21 W., quarter cor. between secs. 20 and 21, 290 ft. S. and 23 ft. E. from, 0.5 mi. S. of crossroads at Hamilton School, 23 ft. E. of rd., in concrete post; standard tablet stamped "773 C W A 1934"	922.002
T. 61 N., R. 21 W., cor. secs. 20, 21, 28, and 29, 15 ft. N. and 15 ft. E. from crossroads, on E. end of iron pipe culvert; painted square	920.98
T. 61 N., R. 21 W., cor. secs. 28, 29, 32, and 33, 15 ft. N. and 15 ft. W. from crossroads, on W. end of iron pipe culvert; painted square	887.49
T-rd. S., 30 ft. N. and 25 ft. E. from, on top of S. side of concrete well platform; chiseled square	864.68
T-rd. N., 25 ft. N. and 20 ft. W. from, 1 ft. above ground in knot on E. side of corner fence post; crossed nails	882.84
T. 60 N., R. 21 W., N. quarter cor. sec. 9, 29 ft. S. and 18 ft. W. from T-rd. S., in concrete post; standard tablet stamped "774 C W A 1934"	875.231
T. 60 N., R. 21 W., near center sec. 16, 700 ft. N. of T-rd. W., 530 ft. S. of T-rd. E., 20 ft. E. of rd., in root on W. side of 32-in. elm tree; copper nail and washer	865.95
T. 60 N., R. 21 W., S. sixteenth cor. sec. 21, 140 ft. N. and 60 ft. E. from T-rd. E., in root on S. side of 8-in. black-locust tree; copper nail and washer	807.44

(Continued in Chula quadrangle; see line 6.)

5. NEAR MIDDLE OF EAST BORDER OF QUADRANGLE (by W. V. Kennedy in 1937)

T. 62 N., R. 21 W., quarter cor. between secs. 27 and 28, 30 ft. S. and 175 ft. E. from T-rd. N., at farmhouse, on NE. end of concrete walk; chiseled square	911.11
T-rd. N., about 540 ft. SW. of, in pier on NE. side of wooden bridge; crossed nails	839.79
T. 62 N., R. 21 W., W. sixteenth cor. sec. 22, 12 ft. S. and 90 ft. E. from T-rd. S., in root on NW. side of twin black-locust tree; copper nail and washer	897.60
T. 62 N., R. 21 W., center sec. 21, 65 ft. S. and 25 ft. W. from T-rd. N., in root on W. side of 24-in. walnut tree; copper nail and washer	866.89

6. SOUTH ALONG WEST BORDER OF QUADRANGLE (by Cornish Beck in 1937)

T-rd. E., 15 ft. N. and 18 ft. E. from, in corner post; bent nail	965.38
T. 63 N., R. 23 W., about 0.2 mi. S. of center sec. 27, 18 ft. S. and 18 ft. W. from T-rd. S., in corner post; spike	972.21
T-rd. E., 21 ft. N. and 17 ft. E. from, in corner post; bent nail	960.04
T. 63 N., R. 23 W., S. quarter cor. sec. 34, 100 ft. N. and 16 ft. W. from T-rd. N., in root on N. side of 26-in. elm tree; copper nail and washer	940.89
T. 62 N., R. 23 W., N. cor. secs. 3 and 4, 22 ft. N. and 265 ft. E. from crossroads, in root on S. side of 30-in. cottonwood tree; copper nail and washer	958.09
T. 62 N., R. 23 W., cor. secs. 3, 4, 9, and 10, 1 ft. S. and 36 ft. W. from rd. at fence W., 350 ft. SW. of farmhouse, in concrete post; standard tablet stamped "1 C B 1937"	923.910
T. 62 N., R. 23 W., cor. secs. 9, 10, 15, and 16, 100 ft. N. and 6 ft. W. from T-rd. W., on NW. wing wall of bridge; chiseled square	858.07
T-rd. E., 250 ft. N. and 8 ft. W. from, on head wall of culvert; chiseled square	878.11

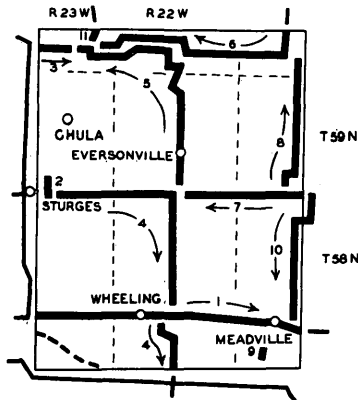
	Feet
T. 62 N., R. 23 W., N. sixteenth cor. between secs. 21 and 22, 37 ft. N. and 22 ft. E. from T-rd. N., in telephone pole; spike	880.76
Top of hill, about 0.2 mi. E. of T-rd. S., in SE. corner of yard, in S. side of 26-in. maple tree; bent nail	929.41
T. 62 N., R. 23 W., center of SW 1/4 sec. 21, 3 ft. S. and 13 ft. E. from rd. corner N.-W., in concrete post; standard tablet stamped "2 C B 1937"	911.923
T. 62 N., R. 23 W., quarter cor. between secs. 28 and 29, 8 ft. N. and 25 ft. W. from crossroads, on head wall of culvert; chiseled square	893.80
T. 62 N., R. 23 W., near S. cor. secs. 32 and 33, 1 ft. E. of NE. corner of Honey Creek Church, on concrete walk; chiseled square	902.20
T. 61 N., R. 23 W., N. cor. secs. 3 and 4, 17 ft. N. and 10 ft. E. from T-rd. S., in telephone pole; spike	886.48
T. 61 N., R. 23 W., about 0.1 mi. N. of cor. secs. 9, 10, 15, and 16, at NE. corner of wooden bridge, in top of piling; copper nail and washer	818.07
T-rd. S., 36 ft. S. and 20 ft. E. from, in corner post; crossed nails	897.71
T. 61 N., R. 23 W., center of SW 1/4 sec. 15, 22 ft. N. and 16 ft. W. from State Highway 6 at cross rd., on head wall of culvert; chiseled square	890.08
T. 61 N., R. 23 W., center of SW 1/4 sec. 22, 48 ft. S. and 38 ft. E. from County Route M at rd. W., in concrete post; standard tablet stamped "3 C B 1937"	829.283
T. 61 N., R. 23 W., near center sec. 27, 84 ft. S. and 50 ft. E. from County Route M at cross rd., on top of right-of-way post; chiseled cross	882.98
County Route M at cross rd., 25 ft. S. and 30 ft. E. from, on top of right-of-way post; chiseled cross	864.18
T. 61 N., R. 23 W., S. quarter cor. sec. 34, 18 ft. N. and 30 ft. E. from County Routes E and M and rd. E., on top of right-of-way post; chiseled cross	856.14
Junction of rd. S., 30 ft. S. and 67 ft. E. from, on top of right-of-way post; chiseled cross	822.18
Laredo, 10 ft. S. and 1 ft. W. from SW. corner of Baptist Church, in concrete post; standard tablet stamped "4 C B 1937"	808.493
T. 60 N., R. 23 W., in SW 1/4 SW 1/4 sec. 13, at S. end of Laredo siding, 5 ft. E. of Chicago, Milwaukee, St. Paul and Pacific R.R., on NW. corner of concrete base of signal box; chiseled square	756.37

(Continued in Chula quadrangle; see line 11.)

For an additional level line along Quincy, Omaha & Kansas City R.R., refer to United States Coast and Geodetic Survey first-order line, Milan, Mo., to Hamburg, Iowa.

CHULA QUADRANGLE
(Latitude 39°45' - 40°00'; longitude 93°15' - 93°30')

Grundy, Linn, and Livingston Counties



1. EAST THROUGH SOUTH HALF OF QUADRANGLE, ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD (by S. R. Archer in 1920)
(Continued from Chillicothe quadrangle; see line 1.)

T. 57 N., R. 23 W., in NE 1/4 sec. 4, 0.1 mi. W. of Chicago, Burlington & Quincy R.R. at rd. crossing, on top of bottom step of E. wing wall at S. end of culvert; chiseled square	738.71
T. 57 N., R. 23 W., near quarter cor. between secs. 2 and 3, N. of Chicago, Burlington & Quincy R.R. at rd. crossing W. of Cream Ridge sta., on W. side of rd., at tile drains under rd., on top of W. end of S. tile; chiseled square	743.15
Cream Ridge, in front of Chicago, Burlington & Quincy R.R. sta.; top of N. rail	742.3
T. 57 N., R. 23 W., near quarter cor. between secs. 1 and 2, SE. of Chicago, Burlington & Quincy R.R. at rd. crossing, in corner of fences; iron post stamped "1920 Mo 696"	695.478

	<u>Feet</u>
T. 57 N., R. 23 W., in NW 1/4 sec. 1, at Chicago, Burlington & Quincy R.R. bridge 123.66 over Medicine Creek, on top of S. end of W. concrete pier; chiseled square	689.33
T. 57 N., R. 23 W., near E. quarter cor. sec. 1, at Chicago, Burlington & Quincy R.R. bridge 123.01, on top of S. end of parapet wall of E. abutment; chiseled square	686.62
T. 57 N., R. 22 W., in W 1/2 sec. 6, at Chicago, Burlington & Quincy R.R. bridge 122.73 over Medicine Creek drainage ditch, on top of N. end of parapet wall of E. concrete abutment; chiseled square	686.89
T. 57 N., R. 22 W., near E. sixteenth cor. sec. 6, at Chicago, Burlington & Quincy R.R. bridge 122.07 over drainage ditch, on top of E. end of S. head wall; chiseled square	685.06
T. 57 N., R. 22 W., quarter cor. between secs. 5 and 6, 110 ft. N. of Chicago, Burlington & Quincy R.R. at rd. crossing, in fence line, in root on NW. side of twin 16-in. cottonwood tree; spike	704.14
Wheeling, at Chicago, Burlington & Quincy R.R. sta., E. of operator's window, on top of SE. corner of concrete base of semaphore; chiseled square	742.14
Wheeling, N. of Chicago, Burlington & Quincy R.R. at crossing of Main Street, on W. side of street, on top of N. side of concrete base of warning bell; chiseled square	743.09
Wheeling, 60 ft. W. of SE. corner of park, 6 ft. SW. of town pump and fire-alarm tower; iron post stamped "Prim Trav Sta No 7 1921 Mo 1920 750"	748.718
T. 57 N., R. 22 W., near E. sixteenth cor. sec. 4, at Chicago, Burlington & Quincy R.R. bridge 119.99 over Little Parson Creek, on top of S. end of parapet wall of E. abutment; chiseled square	698.73
Rd. crossing on Livingston-Linn county line; top of N. rail	708.6
T. 57 N., R. 22 W., near W. sixteenth cor. sec. 3, on top of E. end of S. head wall of Chicago, Burlington & Quincy R.R. bridge 119.49; chiseled square	702.29
T. 57 N., R. 22 W., near quarter cor. between secs. 2 and 3, 53 ft. N. of Chicago, Burlington & Quincy R.R. at rd. crossing, 2 ft. N. of corner fence post; iron post stamped "1920 Mo 736"	735.560
T. 57 N., R. 22 W., near W. quarter cor. sec. 1, at Chicago, Burlington & Quincy R.R. bridge 117.63, on top of N. end of parapet wall of E. concrete abutment; chiseled square	694.61
T. 57 N., R. 22 W., near W. sixteenth cor. sec. 1, at Chicago, Burlington & Quincy R.R. bridge 117.47 over Parson Creek, on top of S. end of W. abutment; chiseled square	697.81
Meadville, 200 ft. E. of Chicago, Burlington & Quincy R.R. sta., 8 ft. N. of N. rail of main track, on top of NW. corner of concrete base of electric warning bell; chiseled square	733.73
Meadville, at NW. corner of Crandall and Macon Streets, in SE. corner of schoolyard; iron post stamped "1920 Mo 757"	756.349
T. 57 N., R. 21 W., 70 ft. E. of line between secs. 5 and 6, on Chicago, Burlington & Quincy R.R., at N. right-of-way fence line, in root on E. side of 24-in. elm tree; copper nail and washer	767.25
T. 57 N., R. 21 W., 60 ft. W. of line between secs. 4 and 5, on Chicago, Burlington & Quincy R.R., 200 ft. W. of rd. crossing, on top of E. end of S. head wall of culvert over Hickory Creek; chiseled square	715.32
T. 57 N., R. 21 W., near S. sixteenth cor. between secs. 3 and 4, 70 ft. N. of Chicago, Burlington & Quincy R.R. at rd. crossing, 20 ft. N. of fence corner, on W. side of rd., in root of 30-in. oak tree; spike	731.87
T. 57 N., R. 21 W., near center sec. 3, at Chicago, Burlington & Quincy R.R. bridge 112.99, on top of S. end of parapet wall of E. concrete abutment; chiseled square	691.51

2. NEAR MIDDLE OF WEST BORDER OF QUADRANGLE

Sturges, 1 mi. E. of, N. cor. secs. 3 and 4, T. 58 N., R. 23 W., 25 ft. S. and 25 ft. E. from T-rd. S., 3 ft. E. of fence corner; iron post stamped "Prim Trav Sta No 18 1913 Mo 769"	768.405
Reference mark, 48 ft. NE. of SE. corner of T-rd. S., 6 ft. N. of fence, in root on S. side of 29-in. elm tree; copper nail and washer	769.09
Maple Grove School, 150 ft. NE. of, in NE. cor. sec. 33, T. 59 N., R. 23 W., near crossroads, in NE. corner of schoolyard, in root on W. side of 17-in. elm tree; copper nail and washer	738.33

3. IN NORTHWEST CORNER OF QUADRANGLE

T. 60 N., R. 23 W., cor. secs. 21, 22, 27, and 28, 16 ft. S. of T-rd. N., 4 ft. from fence N., iron post stamped "Prim Trav Sta No 12 1913 Mo 785"	784.220
T. 60 N., R. 23 W., 510 ft. E. of cor. secs. 21, 22, 27, and 28, at steel bridge over Crooked Creek, on top of S. end of E. concrete abutment; chiseled square	786.24

4. FROM MIDDLE OF WEST BORDER OF QUADRANGLE EAST TO POINT NEAR CENTER, THENCE SOUTH TO SOUTH BORDER (by F. L. Whaley in 1921)

T. 58 N., R. 23 W., near E. cor. secs. 2 and 3, about 2 mi. E. of Sturges, at SW. corner of steel bridge over drainage ditch, 1 ft. below floor; S. end of steel beam	706.02
T. 59 N., R. 23 W., near S. cor. secs. 35 and 36, at SW. corner of yard of P. M. Sapp, in root of 18-in. maple tree; copper nail and washer	710.30
Tps. 58 and 59 N., Rs. 22 and 23 W., cor. of NW. of crossroads, 6 ft. W. of corner fence post; iron post stamped "1921 Mo"	785.009
Reference mark, 690 ft. E. of post, in root of 18-in. elm tree; copper nail and washer	790.84

	Feet
T. 59 N., R. 22 W., near S. cor. secs. 31 and 32, 50 ft. NE. of T-rd. N., in root of 18-in. oak tree; copper nail and washer	713.30
T. 58 N., R. 22 W., N. cor. secs. 4 and 5, 120 ft. SW. of T-rd. S., 45 ft. NE. of Harmony Chapel, in root of maple tree; copper nail and washer	781.77
T. 58 N., R. 22 W., N. cor. secs. 3 and 4, 100 ft. SW. of T-rd. S. on Linn-Livingston county line, in front yard of R. M. Stevenson, in root of 10-in. elm tree; copper nail and washer	793.99
T. 58 N., R. 22 W., cor. secs. 3, 4, 9, and 10, 18 ft. S. and 20 ft. W. from crossroads on Linn-Livingston county line; iron post stamped "Prim Trav Sta No 5 W 1921 Mo"	753.274
Reference mark, 37 ft. N. 5° W. of post, at NW. corner of crossroads, in root of 12-in. oak tree; copper nail and washer	754.23
T. 58 N., R. 22 W., cor. secs. 9, 10, 15, and 16, 170 ft. N. of T-rd. E. on Linn-Livingston county line, in front of dwelling of F. T. Springer, in root of 14-in. maple tree; copper nail and washer	751.14
T. 58 N., R. 22 W., near S. sixteenth cor. between secs. 15 and 16, 100 ft. S. of T-rd. E. on Linn-Livingston county line, in field, 4 ft. W. of fence, in root of 24-in. elm tree; copper nail and washer	740.34
T. 58 N., R. 22 W., cor. secs. 21, 22, 27, and 28, 90 ft. S. and 20 ft. W. from crossroads on Linn-Livingston county line, inside fence; iron post stamped "Prim Trav Sta No 6 W 1921 Mo"	740.640
Reference mark, 321 ft. S. of post, in root of 12-in. elm tree near drain; copper nail and washer	733.42
T. 58 N., R. 22 W., cor. secs. 27, 28, 33, and 34, 60 ft. NE. of T-rd. E. on Linn-Livingston county line, in corner of field, in root of 12-in. locust tree; copper nail and washer	708.33
T. 58 N., R. 22 W., S. cor. secs. 33 and 34, about 220 ft. W. of T-rd. N. on Linn-Livingston county line, 6 ft. W. of entrance to yard of John Lalkup, in root of 36-in. elm tree; copper nail and washer	715.38
T. 57 N., R. 22 W., near cor. secs. 3, 4, 9, and 10, 210 ft. NE. of T-rd. S. on Linn-Livingston county line, 35 ft. E. of fence, in root of 15-in. hickory tree; copper nail and washer	707.33
T. 57 N., R. 22 W., cor. secs. 9, 10, 15, and 16, 90 ft. S. and 15 ft. W. from T-rd. W. on Linn-Livingston county line, in front of dwelling of W. M. Sutherland, on top of concrete stile block; chiseled square	729.35

(Continued in Hale quadrangle; see line 3.)

5. FROM CENTER OF QUADRANGLE NORTH TO POINT NEAR NORTH BORDER, THENCE WEST

T. 59 N., R. 22 W., cor. secs. 27, 28, 33, and 34, at NW. corner of T-rd. W. on Linn-Livingston county line, in root of 24-in. elm tree; copper nail and washer	759.98
T. 59 N., R. 22 W., cor. secs. 21, 22, 27, and 28, at Eversonville, 50 ft. S. and 24 ft. E. from crossroads on Linn-Livingston county line; iron post stamped "Prim Trav Sta No 4 W 1921 Mo"	801.966
Reference mark, 61 ft. N. of post, on concrete sidewalk; chiseled square	803.63
T. 59 N., R. 22 W., 600 ft. S. of cor. secs. 15, 16, 21, and 22 on Linn-Livingston county line, in front yard of dwelling of Nora Edwin, 20 ft. W. of yard fence, in root of black-locust tree; copper nail and washer	817.83
T. 59 N., R. 22 W., near cor. secs. 9, 10, 15, and 16, 370 ft. S. of crossroads on Linn-Livingston county line, in front of dwelling of T. W. Transwe, on W. side of rd., in root of 20-in. bur-oak tree; copper nail and washer	811.70
T. 59 N., R. 22 W., cor. secs. 3, 4, 9, and 10, 18 ft. S. and 15 ft. W. from T-rd. S. on Linn-Livingston county line; iron post stamped "Prim Trav Sta No 3 W 1921 Mo"	761.334
Reference mark, 371 ft. W. of post, in root of 20-in. bur-oak tree; copper nail and washer	753.38
T. 59 N., R. 22 W., near S. sixteenth cor. sec. 4, about 0.2 mi. N. of T-rd. N., on E. side of rd., in root of large triple 36-in. maple tree; copper nail and washer	803.12
T. 59 N., R. 22 W., N. quarter cor. sec. 4, 100 ft. NE. of T-rd. S. on Grundy-Livingston county line, on N. side of rd., in field, in root of 12-in. bur-oak tree; copper nail and washer	800.83
T. 60 N., R. 22 W., near S. cor. secs. 33 and 34 on Grundy-Linn county line, 100 ft. N. and 30 ft. W. from T-rd. N., in yard of O. O. Bunch, in root of large triple mulberry tree; copper nail and washer	808.49
T. 60 N., R. 22 W., cor. secs. 27, 28, 33, and 34, 24 ft. S. and 12 ft. W. from crossroads on Grundy-Linn county line; iron post stamped "Prim Trav Sta No 2 W 1921 Mo"	834.318
Reference mark, 190 ft. N. 70° E. of post, in root of 24-in. elm tree; copper nail and washer	838.28
T. 60 N., R. 22 W., near W. sixteenth cor. between secs. 28 and 33, 460 ft. E. of T-rd. N., 30 ft. SW. of W. end of bridge, on S. side of rd., in root of oak tree; copper nail and washer	758.65
T. 60 N., R. 22 W., about 720 ft. E. of cor. secs. 20, 21, 28, and 29, about 160 ft. N. and 500 ft. W. from T-rd. S., at SW. corner of barn of J. W. Dudley, on top of doorsill; chiseled square	846.93
T. 60 N., R. 22 W., cor. secs. 19, 20, 29, and 30, 30 ft. N. of T-rd. S., 15 ft. N. of fence, inside pasture, in root of 12-in. bur-oak tree; copper nail and washer	797.90
T. 60 N., R. 22 W., 0.8 mi. W. of cor. secs. 19, 20, 29, and 30, 400 ft. S. and 10 ft. E. from T-rd. E., on E. side of rd., in root of 24-in. elm tree; copper nail and washer	835.54
T. 60 N., R. 22 W., in SW 1/4 sec. 30, at Alpha, about 700 ft. E. of Pearson's store, at T-rd. S., 20 ft. N. of fence, in yard, in root of oak tree; copper nail and washer	828.28

T. 60 N., R. 22 W., near S. sixteenth cor. on W. line sec. 30, 0.2 mi. W. of Alpha, at E. end of steel bridge over Medicine Creek, on top of seat of S. abutment; top of bolt head	<u>Feet</u>
T. 60 N., R. 23 W., on line between secs. 24 and 25, at rd. corner, near N. end on E. retaining wall; chiseled square	746.14
T. 60 N., R. 23 W., cor. secs. 23, 24, 25, and 26, 15 (? 18) ft. S. and 60 (? 75) ft. W. from T-rd. N.; iron post stamped "Prim Trav Sta No 1 W 1921 Mo"	765.76
Reference mark, 176 ft. N. 45° E. of post, at T-rd. N., in root of 16-in. maple tree; copper nail and washer	835.281
T. 60 N., R. 23 W., in NW 1/4 sec. 26, on top of guard wall on S. side of concrete bridge over small drain; chiseled square	843.02
T. 60 N., R. 23 W., quarter cor. between secs. 22 and 27, 50 ft. N. and 78 ft. W. from T-rd. S., in front yard of A. M. Warren, in root of 24-in. bur-oak tree; copper nail and washer	843.72
	860.52

6. FROM NORTHEAST CORNER OF QUADRANGLE WEST ALONG NORTH BORDER

(by H. B. Pyle and F. Y. Brown in 1937)

(Continued from Galt quadrangle; see line 4.)

T-rd. W., 440 ft. S. of, 40 ft. W. of rd., in SW. corner of farmyard of H. L. Peterson, in root on W. side of 26-in. cottonwood tree; crossed nails	850.10
Rd. corner from N.-E., in root on E. side of 16-in. maple tree; copper nail and washer	845.51
T. 60 N., R. 21 W., quarter cor. between secs. 27 and 28, 20 ft. E. of T-rd. W., in root on S. side of 16-in. elm tree; copper nail and washer	759.35
T. 60 N., R. 21 W., cor. secs. 27, 28, 33, and 34, 30 ft. S. and 35 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 51 S 1921 Mo"	834.476
T. 60 N., R. 21 W., near E. sixteenth cor. between secs. 29 and 32, 25 ft. N. and 40 ft. W. from junction of private rd. S., in root on E. side of 12-in. elm tree; copper nail and washer	824.08
T. 60 N., R. 21 W., cor. secs. 29, 30, 31, and 32, 75 ft. S. and 50 ft. W. from crossroads, 10 ft. SE. of Jackson Center School, on SE. corner of concrete sidewalk; chiseled square	823.20
T. 60 N., Rs. 21 and 22 W., cor. secs. 25, 30, 31, and 36, 20 ft. S. and 50 ft. E. from T-rd. S.; iron post stamped "Prim Trav Sta No 50 S 1921 Mo"	838.015
Reference mark, 50 ft. S. and 15 ft. W. from T-rd. S., in root on N. side of 40-in. oak stump; copper nail and washer	835.53
T-rd. W., 15 ft. N. and 65 ft. W. from, on N. head wall of concrete culvert; chiseled square	821.33
T. 60 N., R. 22 W., cor. secs. 25, 26, 35, and 36, 140 ft. S. and 20 ft. W. from crossroads, in root on E. side of 20-in. wild-cherry tree; copper nail and washer	860.59
T. 60 N., R. 22 W., cor. secs. 26, 27, 34, and 35, 21 ft. S. and 25 ft. W. from crossroads, in root on N. side of 40-in. locust tree; copper nail and washer	798.10
T. 60 N., R. 22 W., W. sixteenth cor. between secs. 28 and 33, 21 ft. N. and 15 ft. E. from T-rd. N., on E. end of iron pipe culvert; chiseled square	760.11
T. 60 N., R. 22 W., W. sixteenth cor. between secs. 21 and 28, 10 ft. N. and 80 ft. W. from T-rd. S., on NW. corner of concrete culvert; chiseled square	817.75
T. 60 N., R. 22 W., cor. secs. 19, 20, 29, and 30, 30 ft. N. and 150 ft. E. from T-rd. S., in root on S. side of 30-in. elm tree; copper nail and washer	802.90
T. 60 N., R. 22 W., near quarter cor. between secs. 19 and 30, 10 ft. N. and 175 ft. E. from T-rd. S., on N. head wall of concrete culvert; chiseled square	829.07
T. 60 N., R. 22 W., near center of SW 1/4 sec. 30, 680 ft. E. of T-rd. S., 35 ft. N. and 55 ft. E. from another T-rd. S., in SW. corner of yard of Charles Wood, in root on S. side of 30-in. maple tree; copper nail and washer	824.08
T. 60 N., R. 23 W., near W. sixteenth cor. sec. 25, 640 ft. E. of T-rd. N., 60 ft. N. of rd., 4 ft. E. of E. rail of Chicago, Milwaukee, St. Paul and Pacific R.R., in SE. end of bridge 1670; copper nail and washer	761.59

7. FROM MIDDLE OF EAST BORDER OF QUADRANGLE WEST TO POINT NEAR CENTER (by F. Y. Brown in 1937)

Tps. 58 and 59 N., R. 21 W., cor. secs. 4, 5, 32, and 33, 100 ft. N. and 35 ft. W. from crossroads, in SE. corner of churchyard, in root on W. side of 22-in. elm tree; crossed nails	823.72
Tps. 58 and 59 N., R. 21 W., cor. secs. 5, 6, 31, and 32, 430 ft. W. of crossroads, 15 ft. N. of rd., on N. head wall of concrete culvert; chiseled square	823.86
Tps. 58 and 59 N., Rs. 21 and 22 W., cor. of, 30 ft. S. and 30 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 48 S 1921 Mo"	762.105
Tps. 58 and 59 N., R. 22 W., quarter cor. between secs. 1 and 36, 15 ft. S. and 12 ft. E. from T-rd. S., on E. end of iron pipe culvert; painted square	728.03
T. 59 N., R. 22 W., S. cor. secs. 35 and 36, 140 ft. E. of T-rd. N., 15 ft. N. of rd., in root on S. side of 14-in. locust tree; copper nail and washer	771.01
T. 58 N., R. 22 W., N. quarter cor. sec. 2, 20 ft. S. and 15 ft. W. from T-rd. S., on W. end of iron pipe culvert; painted square	794.66
Tps. 58 and 59 N., R. 22 W., on line between secs. 3 and 34, 240 ft. E. of T-rd. N., 30 ft. S. of rd., in root on N. side of 12-in. twin elm tree; copper nail and washer	784.97

8. NORTH ALONG NORTH HALF OF EAST BORDER OF QUADRANGLE, INCLUDING THAT PART OF THE LINE IN LINNEUS QUADRANGLE

	<u>Feet</u>
T. 59 N., R. 21 W., N. sixteenth cor. between secs. 32 and 33, 300 ft. E. of N. end of 100-ft. N.-S. jog in crossroads, 20 ft. N. of rd., in root on E. side of 16-in. elm tree; copper nail and washer	831.95
T. 59 N., R. 21 W., cor. secs. 27, 28, 33, and 34, 240 ft. W. of T-rd. N., 20 ft. S. of rd., in farmyard, in root on N. side of 20-in. twin black-locust tree; copper nail and washer	786.51
T. 59 N., R. 21 W., cor. secs. 21, 22, 27, and 28, 160 ft. N. of T-rd. W., 15 ft. W. of rd., on head wall of concrete culvert; chiseled square Church, on NW. corner of top concrete step; chiseled square	762.89
T. 59 N., R. 21 W., cor. secs. 15, 16, 21, and 22, 15 ft. N. and 25 ft. E. from crossroads, in root on S. side of 16-in. elm tree; copper nail and washer	809.45
T. 59 N., R. 21 W., 380 ft. N. of quarter cor. between secs. 15 and 16, 25 ft. E. of rd. in line with S. side of dwelling; standard tablet stamped "T T 1 W 1936"	782.33
T. 59 N., R. 21 W., cor. secs. 9, 10, 15, and 16, 280 ft. S. and 20 ft. W. from crossroads, in root on N. side of 20-in. maple tree; copper nail and washer	848.883
T. 59 N., R. 21 W., cor. secs. 3, 4, 9, and 10, 25 ft. N. and 45 ft. E. from crossroads, in root on W. side of 22-in. walnut tree; copper nail and washer	818.75
Tps. 59 and 60 N., R. 21 W., cor. secs. 3, 4, 33, and 34, 140 ft. S. and 60 ft. E. from crossroads, at SE. corner of school, on concrete door-step; chiseled square	783.76
	829.34

9. LINE TO ESTABLISH ELEVATION OF MEADVILLE TRIANGULATION STATION

Junction of U.S. Highway 36 and County Route D, on concrete pavement; chiseled square	720.91
Meadville triangulation sta., 0.5 mi. S., thence 0.5 mi. E. along U.S. Highway 36 from Meadville, in NE 1/4 sec. 7; T. 57 N., R. 21 W., on land owned by Lippippi brothers, 50 ft. S. of highway at telephone pole 6162, 24 ft. S. of S. fence line, 18 in. under surface of ground, in concrete post; U.S.C. & G.S. standard disk stamped "Meadville"	775.085

10. SOUTH ALONG SOUTH HALF OF EAST BORDER OF QUADRANGLE, INCLUDING THAT PART OF THE LINE IN LINNEUS QUADRANGLE

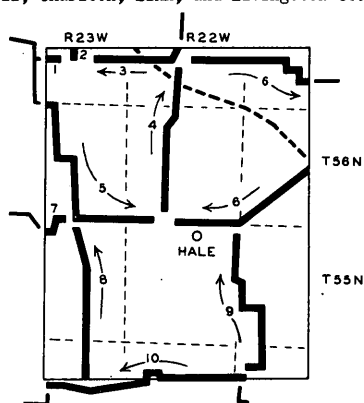
T. 58 N., R. 21 W., N. sixteenth cor. sec. 3, 40 ft. E. of T-rd. N., in corner of farmyard, in root on N. side of 20-in. locust tree; crossed nails	747.74
T. 58 N., R. 21 W., cor. secs. 3, 4, 9, and 10, 20 ft. N. and 25 ft. E. from T-rd. W., in root on N. side of 14-in. cottonwood tree; copper nail and washer	725.23
T. 58 N., R. 21 W., near quarter cor. between secs. 9 and 10, 60 ft. S. and 20 ft. E. from T-rd. E., in root on W. side of 30-in. mulberry tree; copper nail and washer	739.45
T-rd. S., 20 ft. S. and 20 ft. W. from, in corner fence post, at surface of ground; spike	744.60
T. 58 N., R. 21 W., cor. secs. 15, 16, 21, and 22, 30 ft. N. and 3 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T 2 W 1936"	716.088
T. 58 N., R. 21 W., near S. sixteenth cor. between secs. 21 and 22, at SW. corner of bridge, on W. end of steel cross beam; painted square	725.97
T. 58 N., R. 21 W., cor. secs. 27, 28, 33, and 34, 20 ft. E. of rd. corner from N.-W., in root on W. side of 14-in. twin elm tree; copper nail and washer	754.77
T. 58 N., R. 21 W., quarter cor. between secs. 28 and 33, 15 ft. S. and 20 ft. W. from T-rd. S., in root on N. side of 14-in. hedge tree; copper nail and washer	780.25
T. 58 N., R. 21 W., S. quarter cor. sec. 33, 60 ft. E. of T-rd. N., on S. head wall of concrete culvert; chiseled square	748.97
T. 57 N., R. 21 W., N. cor. secs. 3 and 4, 33 ft. S. and 48 ft. W. from T-rd. S., in concrete post; standard tablet stamped "T T 3 W 1936"	707.331
Chicago, Burlington & Quincy R.R. at rd. crossing, in floor; top of spike	734.50
T. 57 N., R. 21 W., near center sec. 3, at Chicago, Burlington & Quincy R.R. bridge 112.99, on top of S. end of parapet wall of E. concrete abutment; chiseled square	691.51

11. IN NORTHWEST CORNER OF QUADRANGLE (by Cornish Beek in 1937)
(Continued from Galt quadrangle; see line 6.)

T-rd. S., 6 ft. S. and 170 ft. W. from, on head wall of culvert; chiseled square	833.26
T-rd. S., 50 ft. N. and 78 ft. W. from, in root on S. side of 24-in. bur-oak tree; nails	860.13

For an additional level line along Wabash Ry., refer to United States Coast and Geodetic Survey second-order line, Gallatin to Summer.

HALE QUADRANGLE
(Latitude 39°30'-39°45'; longitude 93°15'-93°30')
Carroll, Chariton, Linn, and Livingston Counties



1. IN NORTHWEST CORNER OF QUADRANGLE (by S. L. Parker in 1920)
(Continued from Dawn quadrangle; see line 2.)

T. 57 N., R. 23 W., 180 ft. W. of quarter cor. between secs. 16 and 21, 300 ft. W. of T-rd. N., 5 ft. S. of fence line S. of rd., in field, in root on E. side of 24-in. hackberry tree; copper nail and washer	<u>Feet</u> 717.52
T. 57 N., R. 23 W., cor. secs. 15, 16, 21, and 22, 15 ft. S. and 25 ft. W. from crossroads, 2 ft. from fence corner; iron post stamped "Prim Trav Sta No 19 1913 Mo 697"	695.968

2. IN NORTHWEST CORNER OF QUADRANGLE (by S. R. Archer in 1920)

T. 57 N., R. 23 W., cor. secs. 15, 16, 21, and 22, 15 ft. S. and 30 ft. E. from crossroads, 6 ft. E. of fence corner, in root on NE. side of 24-in. hackberry tree; copper nail and washer	695.26
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3. WEST ALONG WEST HALF OF NORTH BORDER OF QUADRANGLE (by F. L. Whaley in 1921)
(Continued from Chula quadrangle; see line 4.)

T. 57 N., R. 22 W., cor. secs. 15, 16, 21, and 22, 17 ft. N. and 42 ft. W. from crossroads on Linn-Livingston county line, 18 ft. W. of fence corner; iron post stamped "Prim Trav Sta No 8 W 1921 Mo"	673.178
Reference mark, 65 ft. S. 10° W. of post, in front yard of H. B. Horton, in root of 14-in. elm tree; copper nail and washer	671.94
T. 57 N., R. 22 W., cor. secs. 16, 17, 20, and 21, 110 ft. S. and 30 ft. W. from crossroads, opposite dwelling, in root of 24-in. cottonwood tree; copper nail and washer	668.64
T. 57 N., R. 22 W., cor. secs. 17, 18, 19, and 20, 150 ft. SW. of T-rd. S., in root of 24-in. black-oak tree; copper nail and washer	669.85
T. 57 N., R. 23 W., E. cor. secs. 13 and 24, 24 ft. S. and 18 ft. W. from T-rd. S., 5 ft. W. of fence corner; iron post stamped "Prim Trav Sta No 9 W 1921 Mo"	673.090
Reference mark, 86 ft. N. 5° W. of post, in root of 24-in. elm tree; copper nail and washer	672.35
T. 57 N., R. 23 W., 740 ft. W. of cor. secs. 13, 14, 23, and 24, on top of N. end of concrete culvert; chiseled square	688.71
T. 57 N., R. 23 W., cor. secs. 14, 15, 22, and 23, 35 ft. SW. of crossroads, on top of W. guard wall of concrete bridge; chiseled square	693.97

4. FROM POINT NEAR CENTER OF QUADRANGLE NORTH TO NORTH BORDER
(leveled twice by E. B. Perry in 1921)

T. 56 N., R. 22 W., S. cor. secs. 32 and 33, 20 ft. N. and 20 ft. E. from T-rd. N. on Carroll-Livingston county line; iron post stamped "Prim Trav Sta No 14 W 1921 Mo"	811.877
Reference mark, 5 ft. N. 88° W. of post, on concrete ledge; chiseled square	811.42
T. 56 N., R. 22 W., cor. secs. 28, 29, 32, and 33, 250 ft. S. of crossroads, in yard of S. N. Fish, in root of 14-in. wild-cherry tree; copper nail and washer	828.56
T. 56 N., R. 22 W., cor. secs. 20, 21, 28, and 29, 80 ft. S. and 25 ft. E. from crossroads, in root of twin 6-in. walnut tree; copper nail and washer	805.60
T. 56 N., R. 22 W., cor. secs. 16, 17, 20, and 21, 35 ft. S. and 30 ft. W. from T-rd. S., 15 ft. S. of corner fence post, in concrete post; standard tablet	807.888
Reference mark, 25 ft. N. and 70 ft. E. from T-rd. S., in root of 12-in. hickory tree; copper nail and washer	806.24

T. 56 N., R. 22 W., near quarter cor. between secs. 8 and 9, 30 ft. W. of dwelling of E. E. Alexander, 40 ft. E. of rd., in root of 24-in. maple tree; copper nail and washer	<u>Feet</u> 786.48
T. 56 N., R. 22 W., cor. secs. 4, 5, 8, and 9, at rd. corner from S.-E., on E. end of N. head wall of concrete culvert; chiseled square	761.40
T. 56 N., R. 22 W., near center sec. 4, at Bedford, at post office, in NE. corner of concrete porch; standard tablet	701.638
Reference mark, at Vaggar Bros. Store, on SE. corner of concrete porch; chiseled square	705.98
T. 57 N., R. 22 W., near N. sixteenth cor. sec. 33, 50 ft. SE. of dwelling of S. Scott, on W. side of rd., in root of 40-in. elm tree; copper nail and washer	669.78
T. 57 N., R. 22 W., near N. sixteenth cor. between secs. 28 and 29, 200 ft. NE. of Wabash Ry., 150 ft. NE. of rd. corner, in root of 24-in. oak tree; copper nail and washer (probably destroyed)	667.29
T. 57 N., R. 22 W., cor. secs. 16, 17, 20, and 21, 100 ft. S. and 30 ft. W. from crossroads, in yard of Albert Shafer, in root of 30-in. poplar tree; copper nail and washer	668.64

5. SOUTH ALONG NORTH PART OF WEST BORDER OF QUADRANGLE, THENCE EAST TO CENTER (by E. B. Perry in 1921. Elevations are doubtful because of an excessive closure.)

(Continued from Dawn quadrangle; see line 3.)

T. 56 N., R. 23 W., N. cor. secs. 4 and 5, 22 ft. S. and 18 ft. W. from T-rd. S.; iron post stamped "Prim Trav Sta No 10 W 1921 Mo"	748.726
Reference mark, 56 ft. N. 35° E. of post, in root of 18-in. post-oak tree; copper nail and washer	750.48
T. 56 N., R. 23 W., cor. secs. 4, 5, 8, and 9, 130 ft. S. and 40 ft. W. from crossroads, at E. end of church, on NW. corner of concrete step; chiseled square	785.41
T. 56 N., R. 23 W., cor. secs. 8, 9, 16, and 17, 25 ft. N. and 70 ft. W. from crossroads, in root of twin 6-in. elm tree; copper nail and washer	833.05
T. 56 N., R. 23 W., cor. secs. 16, 17, 20, and 21, 30 ft. N. and 15 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 11 W 1921 Mo"	789.034
Reference mark, 127 ft. S. 55° E. of post, in root of 14-in. elm tree; copper nail and washer	797.37
T. 56 N., R. 23 W., cor. secs. 15, 16, 21, and 22, at crossroads, on top of S. end of E. head wall of concrete culvert; chiseled square	856.00
T. 56 N., R. 23 W., cor. secs. 21, 22, 27, and 28, at crossroads, 30 ft. E. of rd., in root of 18-in. hedge tree; copper nail and washer	857.96
T. 56 N., R. 23 W., about 0.4 mi. N. of cor. secs. 27, 28, 33, and 34, 50 ft. E. of rd., in root of tree; copper nail and washer	864.35
T. 56 N., R. 23 W., cor. secs. 27, 28, 33, and 34, at crossroads, 80 ft. E. of rd., on SW. corner of concrete step of Asper School; chiseled square	847.53
T. 56 N., R. 23 W., S. cor. secs. 33 and 34, 60 ft. N. and 25 ft. E. from T-rd. N. on Carroll-Livingston county line, 100 ft. W. of Blunt dwelling, in root of 30-in. black-oak tree; copper nail and washer	818.08
T. 56 N., R. 23 W., S. cor. secs. 34 and 35, 70 ft. E. of crossroads on Carroll-Livingston county line, in root of 30-in. maple tree; copper nail and washer	809.34
T. 56 N., R. 23 W., S. cor. secs. 35 and 36, 15 ft. N. and 36 ft. W. from T-rd. N. on Carroll-Livingston county line; iron post stamped "Prim Trav Sta No 13 W 1921 Mo"	785.718
Reference mark, 87 ft. N. 5° E. of post, in root of 30-in. maple tree; copper nail and washer	782.61
T. 56 N., Rs. 22 and 23 W., S. cor. secs. 31 and 36, 550 ft. E. of T-rd. N. on Carroll-Livingston county line, on W. end of S. head wall of concrete bridge; chiseled square	740.51
T. 56 N., R. 22 W., S. cor. secs. 31 and 32, at crossroads on Carroll-Livingston county line, on S. side of rd., on W. head wall of concrete culvert; chiseled square	794.09

6. EAST ALONG EAST HALF OF NORTH BORDER OF QUADRANGLE, THENCE SOUTH AND WEST TO POINT NEAR CENTER (Elevations are doubtful because of an excessive closure.)

T. 57 N., R. 22 W., on line between secs. 15 and 22, in SW. corner of steel bridge; top of bolt head	674.24
T. 57 N., R. 22 W., cor. secs. 13, 14, 23, and 24, 40 ft. N. and 90 ft. W. from T-rd. S., 160 ft. S. of Elk Grove School, in root of 24-in. maple tree; copper nail and washer	729.67
T. 57 N., Rs. 21 and 22 W., cor. secs. 13, 18, 19, and 24, 18 ft. N. and 36 ft. W. from crossroads; iron post stamped "Prim Trav Sta No 20 W 1921 Mo"	753.064
Reference mark, 70 ft. E. of post, in root of 12-in. maple tree; copper nail and washer	752.82
T. 57 N., R. 21 W., about 0.1 mi. E. of cor. secs. 17, 18, 19, and 20, 40 ft. S. and 50 ft. E. from T-rd. S., at NW. corner of yard of W. E. Daniels, in root of 14-in. maple tree; copper nail and washer	735.86
T. 57 N., R. 21 W., cor. secs. 16, 17, 20, and 21, 40 ft. N. and 15 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 19 W 1921 Mo"	687.271
Reference mark, 900 ft. E. of post, in beam at NW. corner of bridge; top of bolt	685.00
T. 57 N., R. 21 W., quarter cor. between secs. 28 and 29, 140 ft. S. of T-rd. N., in root of 24-in. elm tree; copper nail and washer	672.20
T. 57 N., R. 21 W., near quarter cor. between secs. 27 and 28, 30 ft. S. and 40 ft. W. from rd. corner W.-S., in root of 30-in. black-oak tree; copper nail and washer	668.78

T. 56 N., R. 21 W., near N. sixteenth cor. between secs. 28 and 29, on SE. corner of Chicago, Burlington & Quincy R.R. bridge over Grand River; top of bolt head	673.31
T. 56 N., R. 21 W., in E 1/2 sec. 29, on Chicago, Burlington & Quincy R.R., 12 ft. E. of track, 15 ft. N. of E.-W. rd.; iron post stamped "Prim Trav Sta No 16 W 1921 Mo"	678.702
Reference mark, 200 ft. N. 70° W. of post, in root of 30-in. bur-oak tree; copper nail and washer	677.84
T. 56 N., R. 21 W., near cor. secs. 29, 30, 31, and 32, 620 ft. NE. of Chicago, Burlington & Quincy R.R. at rd. crossing, in SW. corner of wooden R.R. bridge; top of bolt head	671.72
T. 56 N., Rs. 21 and 22 W., near S. sixteenth cor. between secs. 31 and 36, 100 ft. S. and 30 ft. W. from Chicago, Burlington & Quincy R.R. at rd. crossing, in yard of Mrs. W. E. Dougherty, in root of 18 in. elm tree; copper nail and washer	712.20
T. 56 N., R. 22 W., near S. quarter cor. sec. 36, 18 ft. S. and 135 ft. W. from Chicago, Burlington & Quincy R.R. at rd. crossing on Carroll-Livingston county line; iron post stamped "Prim Trav Sta No 15 W 1921 Mo"	738.571
T. 56 N., R. 22 W., near S. cor. secs. 35 and 36, at SE. corner of crossroads on Carroll-Livingston county line, on E. head wall of concrete culvert; chiseled square	739.99
T. 56 N., R. 22 W., S. cor. secs. 34 and 35, near T-rd. N. on Carroll-Livingston county line, at entrance to Hale Cemetery, at SE. corner of fence, on concrete ledge; chiseled square	773.27
T. 56 N., R. 22 W., S. cor. secs. 33 and 34, at NE. corner of crossroads on Carroll-Livingston county line, on SE. end of E. head wall of concrete culvert; chiseled square	788.87

7. NEAR MIDDLE OF WEST BORDER OF QUADRANGLE (Elevations are doubtful because of an excessive closure.)
(Continued from Dawn quadrangle; see line 4.)

T. 56 N., R. 23 W., S. cor. secs. 32 and 33, 19 ft. N. and 17 ft. E. from T-rd. N., 19 ft. N. and 210 ft. W. from T-rd. S. on Carroll-Livingston county line; iron post stamped "Prim Trav Sta No 12 W 1921 Mo"	783.819
Reference mark, 370 ft. E. of post, in root of 14-in. elm tree; copper nail and washer	775.47

8. NORTH ALONG SOUTH HALF OF WEST BORDER OF QUADRANGLE (by B. A. Barnes in 1936)

T. 54 N., R. 23 W., cor. secs. 3, 4, 9, and 10, 18 ft. S. and 36 ft. W. from U.S. Highway 65 at cross rd., on center of S. head wall of concrete culvert; chiseled square	709.26
T. 55 N., R. 23 W., S. cor. secs. 33 and 34, 52 ft. N. and 31 ft. E. from U.S. Highway 65 at E.-W. cross rd., 23 ft. N. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "1048 C W A 1934"	759.116
Junction of Tina rd., on E. head wall of concrete culvert; chiseled square	777.57
T. 55 N., R. 23 W., cor. secs. 27, 28, 33, and 34, 21 ft. N. and 21 ft. E. from U.S. Highway 65 at cross rd., on E. head wall of concrete culvert; chiseled square	780.94
T. 55 N., R. 23 W., cor. secs. 21, 22, 27, and 28, 21 ft. N. and 21 ft. W. from U.S. Highway 65 at cross rd., on W. head wall of concrete culvert; chiseled square	788.43
T. 55 N., R. 23 W., cor. secs. 15, 16, 21, and 22, 20 ft. N. and 20 ft. W. from U.S. Highway 65 at cross rd., on W. head wall of concrete culvert; chiseled square	810.53
T. 55 N., R. 23 W., in NW 1/4 SW 1/4 sec. 15, 87 ft. S. and 185 ft. W. from SW. corner of farmhouse of S. W. Scott, 38 ft. E. of U.S. Highway 65, 10 ft. S. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped "1049 C W A 1934"	819.702
T. 55 N., R. 23 W., cor. secs. 9, 10, 15, and 16, 21 ft. N. and 20 ft. E. from U.S. Highway 65 at rd. E., on N. head wall of concrete culvert; chiseled square	806.50
T. 55 N., R. 23 W., approximate cor. secs. 3, 4, 9, and 10, 130 ft. N. and 21 ft. E. from U.S. Highway 65 at County Route J, on E. head wall of concrete culvert; chiseled square	752.46
T. 55 N., R. 23 W., N. cor. secs. 3 and 4, 24 ft. N. and 21 ft. E. from crossroads on Carroll-Livingston county line, on E. head wall of concrete culvert; chiseled square	815.15

9. NORTH THROUGH CENTER OF SOUTHEAST PART OF QUADRANGLE

T. 54 N., R. 22 W., E. cor. secs. 12 and 13, 18 ft. S. and 19 ft. W. from T-rd. W., 356 ft. S. and 19 ft. W. from T-rd. E. at W. cor. secs. 7 and 18, T. 54 N., R. 21 W.; iron post stamped "Prim Trav Sta No 58 S 1921"	762.972
T. 54 N., R. 21 W., approximate cor. secs. 7, 8, 17, and 18, 90 ft. W. of crossroads, on S. head wall of concrete culvert; chiseled square	701.81
T. 54 N., R. 21 W., approximate cor. secs. 5, 6, 7, and 8, 12 ft. S. and 51 ft. E. from crossroads, in root on NW. side of 18-in. walnut tree; copper nail and washer	710.68
T-rd. E., 80 ft. S. and 10 ft. W. from, on W. head wall of concrete culvert; chiseled square	696.74

T. 55 N., R. 21 W., S. cor. secs. 31 and 32, 20 ft. S. and 14 ft. E. from T-rd. N., 20 ft. S. and 102 ft. E. from T-rd. S. at N. cor. secs. 5 and 6, T. 54 N., R. 21 W., in concrete post; standard tablet stamped "1058 C W A 1934"	Feet 707.790
T. 55 N., R. 21 W., in SE 1/4 SE 1/4 sec. 30, on N. rivet head of N. pier on upstream side of small bridge; chiseled cross	646.51
T. 55 N., R. 21 W., cor. secs. 19, 20, 29, and 30, 70 ft. N. and 10 ft. W. from crossroads, on W. head wall of concrete culvert; chiseled square	679.94
T. 55 N., R. 21 W., in NW 1/4 NW 1/4 sec. 30, 28 ft. W. of W. corner of Hurricane Church, 34 ft. SE. of rd., in concrete post; standard tablet stamped "1059 C W A 1934"	683.616
T. 55 N., R. 22 W., E. cor. secs. 13 and 24, 200 ft. N. of T-rd. W., 10 ft. N. and 15 ft. W. from T-rd. E. at W. cor. secs. 18 and 19,	
T. 55 N., R. 21 W., on W. head wall of concrete culvert; chiseled square	715.29
T. 55 N., R. 21 W., W. cor. secs. 7 and 18, 18 ft. S. and 140 ft. E. from T-rd. E., 100 ft. N. of T-rd. W. at approximate E. cor. secs. 12 and 13,	
T. 55 N., R. 22 W., in root on SW. side of 30-in. elm tree; copper nail and washer	737.77
Hale triangulation sta., about 1.5 mi. E. and 0.8 mi. S. from Hale, center sec. 12, T. 55 N., R. 22 W., 26.9 meters (88 ft.) W. and 5 meters (16 ft.) S. of hedge and wire cross fences, on land owned by W. C. Linton, on highest point, buried 20 in. below surface of ground, in concrete post; U.S.C. & G.S. standard disk stamped "Hale 1928"	799.911
Reference mark 1, 86 ft. E. of sta., in concrete post; U.S.C. & G.S. standard disk	800.877
Reference mark 2, about 0.2 mi. from sta. in azimuth 356°03'46", 105 meters (344 ft. paced distance) S. of large, dead tree in N.-S. fence line, 0.7 meter (2 ft.) NW. of corner post on S. side of driveway connecting two fields, in concrete post; U.S.C. & G.S. standard disk	787.032
T. 55 N., R. 21 W., W. cor. secs. 6 and 7, 210 ft. S. of T-rd. E., 30 ft. N. of T-rd. W. at approximate E. cor. secs. 1 and 12, T. 55 N., R. 22 W., on wing wall at SW. corner of small concrete bridge; chiseled square	715.19
10. WEST ALONG SOUTH BORDER OF QUADRANGLE, INCLUDING THAT PART OF THE LINE IN MARSHALL NO. 2 QUADRANGLE	
Concrete bridge, at SW. corner of, on wing wall; (mark not described)	693.42
T. 54 N., R. 22 W., cor. secs. 11, 12, 13, and 14, 40 ft. S. and 60 ft. E. from crossroads, on S. head wall of concrete culvert; chiseled square	716.21
T. 54 N., R. 22 W., cor. secs. 10, 11, 14, and 15, 15 ft. N. and 30 ft. W. from crossroads, in root on SE. side of 8-in. elm tree; copper nail and washer	724.75
T. 54 N., R. 22 W., cor. secs. 9, 10, 15, and 16, 21 ft. N. and 18 ft. E. from stone at crossroads; iron post stamped "Prim Trav Sta No 57 S 1921 Mo"	767.500
T. 54 N., R. 22 W., cor. secs. 8, 9, 16, and 17, 25 ft. S. and 25 ft. E. from crossroads, in root on NE. side of 10-in. hedge tree; copper nail and washer	788.62
Concrete culvert, on E. head wall of; chiseled square	723.62
T. 54 N., R. 22 W., near center sec. 8, in concrete well platform in yard of Linden School; standard tablet stamped "T T 51 C 1936"	747.886
Reference mark 1, 42 ft. W. of SW. corner of school, at well, on NW. corner of concrete block; chiseled square	747.84
Reference mark 2, at school, on NW. corner of second row of concrete steps; chiseled square	750.87
T. 54 N., R. 22 W., cor. secs. 7, 8, 17, and 18, 20 ft. N. and 22 ft. E. from T-rd. W., in root on SE. side of 24-in. white-oak tree; copper nail and washer	713.99
T. 54 N., R. 23 W., E. cor. secs. 12 and 13, 18 ft. N. and 27 ft. W. from T-rd. W., on N. head wall of concrete culvert; chiseled square	714.97
Bridge over creek, at NW. corner of, on concrete wing wall; chiseled square	689.16
T. 54 N., R. 23 W., cor. secs. 11, 12, 13, and 14, 15 ft. S. and 30 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 56 S 1921 Mo"	696.026
T. 54 N., R. 23 W., cor. secs. 10, 11, 14, and 15, 18 ft. N. and 100 ft. E. from crossroads, in root on N. side of 8-in. hedge tree; copper nail and washer	755.42
T. 54 N., R. 23 W., cor. secs. 9, 10, 15, and 16, 15 ft. N. and 18 ft. E. from U.S. Highway 65 at E.-W. cross rd., on E. head wall of concrete culvert; chiseled square	752.70
T. 54 N., R. 23 W., cor. secs. 8, 9, 16, and 17, 19 ft. N. and 25 ft. E. from crossroads, 4 ft. S. and 5 ft. E. from fence corner; iron post stamped "Prim Trav Sta No 55 S 1921 Mo"	802.591
T. 54 N., R. 23 W., cor. secs. 16, 17, 20, and 21, 40 ft. N. and 33 ft. E. from crossroads, on N. head wall of concrete culvert; chiseled square	834.22

(Continued in Dawn quadrangle; see line 6.)

For an additional level line along Wabash Ry., refer to United States Coast and Geodetic Survey second-order line, Gallatin to Summer.

3. IN NORTHEAST PART OF QUADRANGLE, SOUTHEAST TO EAST BORDER (by E. B. Perry in 1921. Elevations are doubtful because of an excessive closure.)

T. 57 N., R. 23 W., in S 1/2 sec. 19, 70 ft. SE. of dwelling of S. C. Israel, 3 ft. W. of yard fence, in root of 40-in. elm tree; copper nail and washer	Feet 683.75
McCleary School, 120 ft. W. of, on line between secs. 29 and 30, T. 57 N., R. 23 W., 25 ft. W. of rd., in root of twin 24-in. walnut tree; copper nail and washer	677.31
T. 57 N., R. 23 W., near cor. secs. 28, 29, 32, and 33, at T-rd. S., on W. end of concrete culvert; chiseled square	679.17

(Continued in Hale quadrangle; see line 5.)

4. SOUTH ALONG NORTH PART OF WEST BORDER OF QUADRANGLE, THENCE EAST THROUGH CENTER TO EAST BORDER (Elevations are doubtful because of an excessive closure.)

T. 57 N., R. 25 W., near cor. secs. 19, 20, 29, and 30, 120 ft. W. of dwelling of E. S. Smith, in root of 30-in. elm tree; copper nail and washer	883.50
T. 57 N., R. 25 W., about 0.2 mi. S. of cor. secs. 29, 30, 31, and 32, on SE. corner of S. end of abutment of bridge; chiseled square	747.76
T. 56 N., R. 25 W., N. cor. secs. 5 and 6, 20 (? 30) ft. S. and 25 (? 30) ft. W. from T-rd. S.; iron post stamped "Prim Trav Sta No 26 W 1921 Mo"	829.216
Reference mark, 99 ft. S. 50° E. of post, on NW. corner of concrete porch of church; chiseled square	824.79
T. 56 N., R. 25 W., near cor. secs. 5, 6, 7, and 8, 100 ft. E. of rd., in yard of S. T. Robinson, in root of 40-in. bur-oak tree; copper nail and washer	872.58
T. 56 N., R. 25 W., cor. secs. 7, 8, 17, and 18, 100 ft. S. and 60 ft. W. from crossroads, in root of 20-in. walnut tree; copper nail and washer	846.39
T. 56 N., R. 25 W., cor. secs. 17, 18, 19, and 20, 18 ft. S. and 12 ft. W. from T-rd. S.; iron post stamped "Prim Trav Sta No 25 W 1921 Mo"	741.592
Reference mark, 99 ft. SW. of post, at SE. corner of S. wing of dwelling of C. B. Skinner, on rock under concrete foundation; chiseled square	739.05
T. 56 N., R. 25 W., cor. secs. 19, 20, 29, and 30, 15 ft. S. and 60 ft. E. from crossroads, in root of twin 12-in. locust tree; copper nail and washer	715.61
T. 56 N., R. 25 W., near cor. secs. 29, 30, 31, and 32, 90 ft. W. of rd., in yard of C. E. Wells, in root of 30-in. maple tree; copper nail and washer	758.56
T. 56 N., R. 25 W., quarter cor. between secs. 31 and 32, 24 ft. S. and 6 ft. W. from crossroads, in W. wing wall of concrete culvert; standard tablet stamped "Prim Trav Sta No 24 W 1921 Mo"	767.191
Reference mark, 24 ft. E. of tablet, on top of E. head wall of concrete culvert; chiseled square	765.68
T. 56 N., R. 25 W., quarter cor. between secs. 32 and 33, 90 ft. S. and 40 ft. W. from crossroads, in root of twin 24-in. locust tree; copper nail and washer	715.14
T. 56 N., R. 25 W., quarter cor. between secs. 33 and 34, 100 ft. W. of crossroads, on N. head wall of concrete culvert; chiseled square	739.31
T. 56 N., R. 25 W., near center sec. 35, on NW. corner of iron beam of bridge; chiseled square	715.83
T. 56 N., R. 25 W., quarter cor. between secs. 26 and 35, 24 ft. S. and 15 ft. E. from rd. corner S.-E.; iron post stamped "Prim Trav Sta No 23 W 1921 Mo"	730.246
Reference mark, 228 ft. S. 15° E. of post, in root of 36-in. elm tree; copper nail and washer	737.33
T. 56 N., R. 25 W., quarter cor. between secs. 25 and 36, 80 ft. S. and 50 ft. W. from T-rd. S., on NE. corner of concrete porch of church; chiseled square	777.44
T. 56 N., R. 24 W., cor. secs. 28, 29, 32, and 33, 21 ft. S. and 18 ft. E. (10 ft. SE. by levelman) from T-rd. S., in concrete ledge; standard tablet stamped "Prim Trav Sta No 22 W 1921 Mo"	885.309
Reference mark, 350 ft. N. 75° E. of tablet, in root of twin 14-in. hedge tree; copper nail and washer	864.55
T. 56 N., R. 24 W., 70 ft. S. and 110 ft. W. from quarter cor. between secs. 33 and 34, in yard of George Minnie, in root of 30-in. birch tree; copper nail and washer	958.48
Tps. 55 and 56 N., R. 24 W., on line between secs. 3 and 34, 40 ft. N. and 40 ft. W. from T-rd. N. on Carroll-Livingston county line, in root of 12-in. wild-cherry tree; copper nail and washer	970.96
Tps. 55 and 56 N., R. 24 W., on line between secs. 2 and 35, 60 ft. S. and 25 ft. W. from T-rd. N. on Carroll-Livingston county line, 70 ft. N. of dwelling of W. R. McKarrow, in root of 12-in. bur-oak tree; copper nail and washer	966.28
Blue Mound, E. sixteenth cor. between secs. 26 and 35, T. 56 N., R. 24 W., 25 ft. N. and 60 ft. E. from crossroads, in SW. corner of concrete porch; standard tablet stamped "Prim Trav Sta No 21 W 1921 Mo"	985.432
Reference mark, 178 ft. S. 55° W. of tablet, on concrete porch of church; chiseled square	984.75
T. 56 N., Rs. 23 and 24 W., approximate cor. secs. 25, 30, 31, and 36, at crossroads, on N. end of W. head wall of concrete culvert; chiseled square	835.14
Tps. 55 and 56 N., R. 23 W., on line between secs. 6 and 31, 580 ft. E. of T-rd. E. on Carroll-Livingston county line, S. of rd., in root of 12-in. elm tree; copper nail and washer	840.29

T. 55 N., R. 23 W., N. cor. secs. 5 and 6, 30 ft. S. and 80 ft. W. from T-rd. S. on Carroll-Livingston county line, in Blakely yard, in root of 12-in. mulberry tree; copper nail and washer	<u>Feet</u> 879.37
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(Continued in Hale quadrangle; see line 7.)

5. SOUTH ALONG SOUTH PART OF WEST BORDER OF QUADRANGLE, INCLUDING THAT PART OF THE LINE IN LEXINGTON NO. 1 QUADRANGLE (single-run spur-line)

T. 55 N., R. 25 W., cor. secs. 5, 6, 7, and 8, 80 ft. E. of NE. corner of crossroads, in root of 10-in. elm tree; copper nail and washer	909.70
T. 55 N., R. 25 W., 350 ft. S. of cor. secs. 4, 5, 8, and 9, E. of rd., in root of twin 24-in. elm tree; copper nail and washer	764.81
T. 55 N., R. 25 W., cor. secs. 8, 9, 16, and 17, 40 ft. N. and 30 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 45 S 1921 Mo"	847.577
Reference mark, 87 ft. S. 10° E. of tablet, in root of 24-in. hedge tree; copper nail and washer	844.98
T. 55 N., R. 25 W., near N. sixteenth cor. between secs. 20 and 21, on N. end of E. head wall of concrete culvert; chiseled square	801.88
T. 55 N., R. 25 W., cor. secs. 20, 21, 28, and 29, 70 ft. N. and 25 ft. E. from crossroads, in root of 10-in. hedge tree; copper nail and washer	843.80
T. 55 N., R. 25 W., cor. secs. 19, 20, 29, and 30, 70 ft. S. and 20 ft. E. from crossroads, in root of 24-in. elm tree; nail and washer	925.17
T. 55 N., R. 25 W., quarter cor. between secs. 29 and 30, 30 ft. S. and 20 ft. W. from T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 44 S 1921 Mo"	918.365
Reference mark, 47 ft. E. of tablet, in root of 24-in. cottonwood tree; copper nail and washer	919.69
T. 55 N., R. 25 W., about 900 ft. W. of S. quarter cor. sec. 31, on W. end of N. head wall of concrete culvert; chiseled square	901.65

(For balance in Braymer quadrangle, see line 4.)

T. 54 N., R. 25 W., cor. secs. 5, 6, 7, and 8, 70 ft. S. and 20 ft. W. from crossroads, in root of 18-in. mulberry tree; copper nail and washer	855.68
T. 54 N., R. 25 W., cor. secs. 7, 8, 17, and 18, 18 (? 15) ft. S. and 18 (? 30) ft. W. from crossroads; iron post stamped "Prim Trav Sta No 43 S 1921 Mo"	812.210.
Reference mark, 50 ft. N. 45° E. (? W.) of post, at corner fence post, on concrete ledge; chiseled square	814.37

6. WEST ALONG SOUTH BORDER OF QUADRANGLE, INCLUDING THAT PART OF THE LINE IN LEXINGTON NO. 1 QUADRANGLE (by B. A. Barnes in 1936)

(Continued from Hale quadrangle; see line 10.)

T. 54 N., R. 23 W., cor. secs. 17, 18, 19, and 20, 18 ft. S. and 150 ft. W. from T-rd. W., in root on SW. side of 24-in. elm tree; copper nail and washer	770.49
T. 54 N., R. 23 W., W. sixteenth cor. between secs. 18 and 19, 12 ft. N. and 114 ft. E. from crossroads, in root on S. side of 14-in. elm tree; copper nail and washer	804.69
T. 54 N., R. 23 W., 0.2 mi. E. of W. cor. secs. 18 and 19, 12 ft. S. and 20 ft. E. from crossroads, 2 ft. S. and 3 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 52 C 1936"	806.403
T. 54 N., R. 23 W., near center of NW 1/4 sec. 18, 15 ft. S. and 60 ft. W. from T-rd. W., in root on NW. side of 12-in. hickory tree; copper nail and washer	755.35
T-rd. N., 36 ft. N. and 30 ft. E. from, in root on SE. side of 14-in. white-oak tree; crossed nails	764.10
T. 54 N., R. 24 W., approximate N. sixteenth cor. between secs. 13 and 14, 90 ft. S. and 120 ft. E. from T-rd. N., on W. side of concrete well block; chiseled square	808.26
T. 54 N., R. 24 W., S. sixteenth cor. between secs. 11 and 12, 15 ft. S. and 230 (? 192) ft. E. from T-rd. N., 15 ft. S. and 15 ft. E. from rd. corner; iron post stamped "Prim Trav Sta No 54 S 1921 Mo"	846.931
T. 54 N., R. 24 W., cor. secs. 10, 11, 14, and 15, 40 ft. N. and 14 ft. W. from T-rd. E., in root on SE. side of 24-in. elm tree; copper nail and washer	793.49
T. 54 N., R. 24 W., quarter cor. between secs. 14 and 15, 25 ft. S. and 30 ft. E. from T-rd. S., in root on SE. side of 14-in. hickory tree; copper nail and washer	807.40
T-rd. N., 18 ft. N. and 100 ft. E. from, in root on S. side of 16-in. elm tree; crossed nails	812.62.
Mandeville, 1.5 mi. E. and 0.5 mi. S. from, center sec. 16, T. 54 N., R. 24 W., 18 ft. S. and 21 ft. W. from T-rd. E., 2 ft. S. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "470 C W A 1934"	930.504
Mandeville, about 1.2 mi. E. of, approximate W. sixteenth cor. between secs. 9 and 16, T. 54 N., R. 24 W., 30 ft. N. and 300 ft. E. from T-rd. N., 30 ft. SE. of SE. corner of small farmhouse, in root on NW. side of 36-in. maple tree; copper nail and washer	945.17
Mandeville, in NW 1/4 sec. 17, T. 54 N., R. 24 W., in SW. corner of concrete porch of Christian Church; standard tablet stamped "Prim Trav Sta No 53 S 1921 Mo"	973.704
Mandeville, 1 mi. W. of, approximate W. sixteenth cor. between secs. 7 and 18, T. 54 N., R. 24 W., 30 ft. N. and 6 ft. W. from T-rd. S., in root on N. side of 36-in. maple tree; copper nail and washer	872.29

	Feet
T-rd. W., 20 ft. S. and 210 ft. W. from, in root on S. side of 16-in. elm tree; crossed nails	834.15
T. 54 N., R. 25 W., cor. secs. 11, 12, 13, and 14, 2 ft. S. and 60 ft. W. from T-rd. E., in root on E. side of 20-in. elm tree; copper nail and washer	781.87
T. 54 N., R. 25 W., cor. secs. 10, 11, 14, and 15, 15 ft. N. and 40 ft. W. from crossroads; iron post stamped "Prim Trav Sta No 52 S 1921 Mo"	759.248
Reference mark 1, 80 ft. SE. of post, in root on E. side of 12-in. elm tree; copper nail and washer	757.97
Reference mark 2, 75 ft. E. of post, on N. head wall of concrete culvert; chiseled square	757.80
T. 54 N., R. 25 W., cor. secs. 9, 10, 15, and 16, 36 ft. S. and 80 ft. E. from crossroads, 115 ft. N. of NW. corner of farmhouse of Homer Austin, in root on NW. side of 30-in. maple tree; copper nail and washer	740.92
T. 54 N., R. 25 W., cor. secs. 8, 9, 16, and 17, 21 ft. S. and 21 ft. W. from crossroads, in root on N. side of 14-in. walnut tree; copper nail and washer	836.58

7. NORTH IN SOUTH HALF OF QUADRANGLE

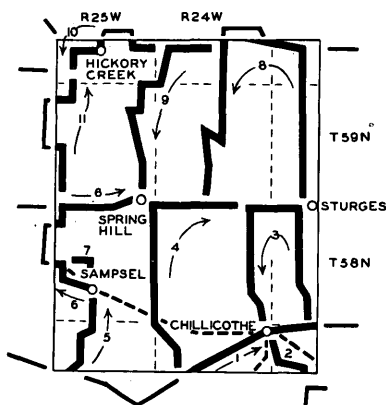
T. 54 N., R. 24 W., probable center of NW 1/4 sec. 9, 30 ft. N. and 120 ft. W. from T-rd. E., 30 ft. S. of SW. corner of dwelling of J. H. Smith, on SE. corner of concrete well block; chiseled square	954.62
T. 54 N., R. 24 W., approximate center sec. 4, 10 ft. N. of NW. corner of Isom School, 51 ft. E. of rd., on W. side of concrete well block; chiseled square	953.59
T. 54 N., R. 24 W., N. quarter cor. sec. 4, 180 ft. S. and 48 ft. E. from crossroads, 51 ft. NW. of NW. corner of farmhouse, in root on N. side of 14-in. walnut tree; copper nail and washer	964.34
T. 55 N., R. 24 W., N. sixteenth cor. sec. 33, 6 ft. N. and 20 ft. W. from T-rd. E., 2 ft. from fence, in concrete post; standard tablet stamped "471 C W A 1934"	844.190
T-rd. E., 40 ft. S. and 30 ft. W. from, in base of telephone pole; iron nail	854.19
T. 55 N., R. 24 W., probable quarter cor. between secs. 27 and 28, 390 ft. N. of T-rd. W., 26 ft. W. of rd., in root on E. side of twin 16-in. black-oak tree; copper nail and washer	918.59
T. 55 N., R. 24 W., S. sixteenth cor. between secs. 21 and 22, 125 ft. S. and 75 ft. W. from, 10 ft. E. of NE. corner of farmhouse of W. B. O'Rourke, in root on NE. side of 12-in. maple tree; copper nail and washer	976.42
T. 55 N., R. 24 W., cor. secs. 15, 16, 21, and 22, 21 ft. S. and 23 ft. E. from crossroads, 5 ft. S. and 2 ft. E. from triple elm tree in fence corner, in concrete post; standard tablet stamped "472 C W A 1934"	934.071
T. 55 N., R. 24 W., approximate N. sixteenth cor. between secs. 15 and 16, 12 ft. N. and 42 ft. E. from rd. corner S.-E., in root on W. side of 12-in. white-oak tree; copper nail and washer	955.52
T-rd. N.; surface of rd.	934.9
T. 55 N., R. 24 W., quarter cor. between secs. 10 and 15, 33 ft. N. and 36 ft. E. from T-rd. E., in root on SE. side of 8-in. hickory tree; copper nail and washer	939.34
T. 55 N., R. 24 W., probable quarter cor. between secs. 3 and 10, 110 ft. S. of T-fence E., 60 ft. NW. of farmhouse, in root on W. side of 18-in. elm tree; copper nail and washer	952.29
T. 55 N., R. 24 W., center sec. 3, 8 ft. S. and 19 ft. W. from T-rd. E., 0.5 mi. S. of Carroll-Livingston county line, 2 ft. S. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "473 C W A 1934"	976.194
T. 55 N., R. 24 W., in NE 1/4 sec. 4, 40 ft. N. of rd. corner from E.-N., 40 ft. E. of rd., in root on NW. side of 8-in. cedar tree; copper nail and washer	935.39
T. 56 N., R. 24 W., S. cor. secs. 32 and 33, 12 ft. N. and 12 ft. E. from T-rd. N. on Carroll-Livingston county line, on concrete base of corner fence post; chiseled square	789.33
T. 56 N., R. 24 W., quarter cor. between secs. 30 and 31, 120 ft. E. of crossroads, on S. side of rd., in root of 24-in. maple tree; copper nail and washer	832.52

8. NEAR CENTER OF EAST HALF OF QUADRANGLE

Tps. 55 and 56 N., Rs. 23 and 24 W., cor. of, 30 ft. S. and 15 ft. W. from T-rd. E. on Carroll-Livingston county line, in root on E. side of 8-in. elm tree; copper nail and washer	857.96
Tps. 55 and 56 N., R. 24 W., on line between secs. 2 and 35, 16 ft. N. and 8 ft. W. from T-rd. S. on Carroll-Livingston county line, in root on N. side of 8-in. hedge tree; copper nail and washer	978.70

For an additional level line along Chicago, Milwaukee, St. Paul and Pacific R.R., refer to United States Coast and Geodetic Survey second-order line, Chillicothe to Lawson.

CHILLICOTHE QUADRANGLE
(Latitude 39°45'-40°00'; longitude 93°30'-93°45')
Grundy and Livingston Counties



1. FROM MIDDLE OF SOUTH BORDER OF QUADRANGLE NORTHEAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO EAST BORDER (by S. R. Archer in 1920)
(Continued from Dawn quadrangle; see line 1.)

	Feet
T. 57 N., R. 24 W., near E. sixteenth cor. sec. 17, at Chicago, Burlington & Quincy R.R. bridge 134.06, on top of N. end of parapet wall of E. concrete abutment; chiseled square	699.80
T. 57 N., R. 24 W., on line between secs. 9 and 16, at Chicago, Burlington & Quincy R.R. bridge over Grand River, on top of N. end of parapet wall of W. abutment; chiseled square	701.66
T. 57 N., R. 24 W., in SE 1/4 SW 1/4 sec. 9, at E. end of approach to Chicago, Burlington & Quincy R.R. bridge over Grand River, on top of N. end of parapet wall of E. abutment; chiseled square	701.65
T. 57 N., R. 24 W., in NW 1/4 sec. 10, at Chicago, Burlington & Quincy R.R. bridge 132.20, on top of N. end of parapet wall of W. concrete abutment; chiseled square	698.44
T. 57 N., R. 24 W., on line between secs. 3 and 10, 30 ft. S. and 80 ft. W. from crossroads, N. of rd. SW., 25 ft. S. of small oak tree; iron post stamped "1920 Mo 688"	687.369
T. 57 N., R. 24 W., near center of SE 1/4 sec. 3, 675 ft. SW. of Chicago, Burlington & Quincy R.R. at rd. crossing, at concrete bridge 131.42, on top of S. end of parapet wall of E. abutment; chiseled square	698.31
T. 57 N., R. 24 W., in NE 1/4 SW 1/4 sec. 2, at SW. corner of Chicago, Burlington & Quincy R.R. bridge 130.91, on base of square, concrete number post; chiseled square	695.60
Chillicothe, at Chicago, Burlington & Quincy R.R. passenger sta., NW. of Elm Street crossing, on SW. corner of concrete base of watchman's tower; chiseled square	765.80
Chillicothe, N. of N. entrance on E. side of post office, in top of S. end of window sill; standard tablet stamped "1920 Mo 793"	792.347
Chillicothe, W. of S. entrance to courthouse, on W. side of steps at base of electric-light pedestal, in top of S. end of stone baluster; standard tablet stamped "1920 Mo 799"	798.046
Chillicothe, in SE. part of, at Chicago, Milwaukee, St. Paul and Pacific R.R. bridge over Chicago, Burlington & Quincy R.R. and Wabash Ry., at base of sloping wing wall, on top of N. corner of W. end of S. concrete abutment; chiseled square	750.26
T. 57 N., R. 23 W., in NE 1/4 sec. 6, at Chicago, Burlington & Quincy R.R. bridge 128.46 over Blackwell Branch, on top of N. end of parapet wall of E. concrete abutment; chiseled square	726.49
T. 57 N., R. 23 W., on line between secs. 4 and 5, 50 ft. S. and 25 ft. E. from Chicago, Burlington & Quincy R.R. at rd. crossing, 5 ft. E. of fence corner; iron post stamped "1920 Mo 744"	743.714

(Continued in Chula quadrangle; see line 1.)

2. FROM CHILLICOTHE SOUTH TO SOUTH BORDER OF QUADRANGLE (by S. L. Parker in 1920)

Chillicothe, 280 ft. S. of Chicago, Milwaukee, St. Paul and Pacific R.R. sta., on top of SW. corner of concrete base of automatic bell signal at Jackson Street crossing; chiseled square	779.12
Chillicothe, in front of Chicago, Milwaukee, St. Paul and Pacific R.R. sta.; top of W. rail	779.8
Chillicothe, 0.5 mi. S. of Chicago, Milwaukee, St. Paul and Pacific R.R. sta., at N. end of R.R. bridge, on top of W. end of concrete abutment; chiseled square	774.06

Chillicothe, 1.9 mi. S. of Chicago, Milwaukee, St. Paul and Pacific R.R. sta., quarter cor. between secs. 7 and 12, T. 57 N., Rs. 23 and 24 W., E. of T-rd. W., at entrance to old cemetery, on N. end of concrete culvert under driveway; chiseled square	<u>Feet</u>
T. 57 N., R. 23 W., W. sixteenth cor. between secs. 7 and 18, at rd. fork E., 5 ft. SW. of NE. corner of fence; on top of parapet wall of concrete culvert; chiseled square	691.54
	691.00

(Continued in Dawn quadrangle; see line 2.)

3. NORTH ALONG SOUTH HALF OF EAST BORDER OF QUADRANGLE, THENCE WEST TO MIDDLE OF EAST HALF, THENCE SOUTH TO CHILLICOTHE

T. 57 N., R. 23 W., cor. secs. 4, 5, 8, and 9, at SE. corner of T-rd. S., in root on E. side of 12-in. elm tree; copper nail and washer	758.01
T. 58 N., R. 23 W., quarter cor. between secs. 32 and 33, 35 ft. S. of SE. corner of crossroads, 1 ft. W. of fence, in root on N. side of honey-locust tree; copper nail and washer	779.81
T. 58 N., R. 23 W., cor. secs. 28, 29, 32, and 33, at crossroads, 42 ft. S. of SE. corner of fence, 1 ft. W. of hedge fence, in root on N. side of 17-in. elm tree; copper nail and washer	801.99
T. 58 N., R. 23 W., near cor. secs. 20, 21, 28, and 29, 3 ft. E. of front entrance to Adams School, on top of NE. corner of concrete porch; chiseled square	803.37
T. 58 N., R. 23 W., quarter cor. between secs. 17 and 20, at SW. corner of T-rd. W.; iron post stamped "1920 Mo 841"	840.234
Sturges, 0.3 mi. SW. of Chicago, Milwaukee, St. Paul and Pacific R.R. sta., on line between secs. 4 and 5, T. 58 N., R. 23 W., 65 ft. NW. of rd. crossing, in field, in root on S. side of lone 24-in. cottonwood tree; copper nail and washer	791.15
Sturges, in NE. cor. sec. 5, T. 58 N., R. 23 W., SW. of T-rd. S., 21 ft. SW. of SW. corner of fence, in field, in root on NE. side of 30-in. cottonwood tree; copper nail and washer	775.16
T. 58 N., R. 23 W., N. quarter cor. sec. 6, at T-rd. S., on top of S. end of W. concrete parapet wall; chiseled square	765.09
Tps. 58 and 59 N., Rs. 23 and 24 W., cor. of, at crossroads, 4 ft. E. of SE. corner of fence; iron post stamped "1920 Mo 787"	786.368
Chillicothe, 6 mi. N. of, N. cor. secs. 1 and 2, T. 58 N., R. 24 W., at T-rd. S., in SE. fence corner, in root on E. side of 12-in. maple tree; copper nail and washer	819.98
Chillicothe, 5 mi. N. of, cor. secs. 1, 2, 11, and 12, T. 58 N., R. 24 W., 140 ft. S. of T-rd. W., in fence line on E. side of rd., in root on W. side of 12-in. hickory tree; copper nail and washer	795.88
Chillicothe, 4.2 mi. N. of, near S. sixteenth cor. between secs. 11 and 12, T. 58 N., R. 24 W., 36 ft. S. of SW. corner of Linville School, in root on W. side of 16-in. elm tree; copper nail and washer	809.96
Chillicothe, 3 mi. N. of, cor. secs. 13, 14, 23, and 24, at T-rd. N., 5 ft. N. and 1 ft. W. from NE. corner of fence; iron post stamped "1920 Mo 779"	778.653
Chillicothe, 2 mi. N. of, 600 ft. E. of cor. secs. 23, 24, 25, and 26, T. 58 N., R. 24 W., at T-rd. N., 20 ft. N. and 10 ft. E. from NW. corner of fence, on top of N. end of 12-in. tile drain; chiseled square	770.18
Chillicothe, 1.3 mi. N. of courthouse, about 500 ft. W. of center sec. 25, T. 58 N., R. 24 W., at NW. corner of T-rd. W., in corner of yard, in root on W. side of 12-in. elm tree; copper nail and washer	789.93

4. FROM MIDDLE OF SOUTH BORDER OF QUADRANGLE NORTH TO SPRING HILL, THENCE EAST TO POINT 3 MILES WEST OF STURGES

Utica, 1.2 mi. N. of Chicago, Burlington & Quincy R.R. sta., E. of T-rd. W., in N.-S. fence line, in root of 12-in. birch tree; copper nail and washer	688.65
Utica, 2.3 mi. N. of, 50 ft. N. of bridge over drainage ditch, at rd. corner from S.-W., 1 ft. S. and 6 ft. W. from NE. corner of fence; iron post stamped "1920 Mo 690"	689.556
Utica, 2.5 mi. N. of, in sec. 6, T. 57 N., R. 24 W., 45 ft. S. of SW. corner of T-rd. S., on W. side of rd., in root on N. side of 8-in. black-jack-oak tree; copper nail and washer	691.63
Sampsel, 3.1 mi. SE. of, along Washburn Ry., in SE 1/4 NE 1/4 sec. 36, T. 58 N., R. 25 W., 50 ft. SW. of rd. crossing, 1 ft. E. of right-of-way line; iron post stamped "1920 Mo 696"	695.279
Sampsel, 3 mi. E. of, W. quarter cor. sec. 30, T. 58 N., R. 24 W., 28 ft. N. and 4 ft. E. from NE. corner of crossroads, in root on W. side of 25-in. cottonwood tree; copper nail and washer	739.50
T. 58 N., Rs. 24 and 25 W., quarter cor. between secs. 19 and 24, 215 ft. S. of crossroads, E. of rd., 1 ft. E. of fence, in root on N. side of 16-in. wild-cherry tree; copper nail and washer	742.71
T. 58 N., R. 24 W., in SW. cor. NW 1/4 sec. 18, at SE. corner of crossroads, in root on W. side of walnut tree; copper nail and washer	779.58
T. 58 N., Rs. 24 and 25 W., cor. secs. 7, 12, 13, and 18, SW. of T-rd. W., 2 ft. E. of N.-S. fence, in field; iron post stamped "1920 Mo 801"	800.151
Spring Hill, 0.3 mi. W. of, near NE. cor. sec. 1, T. 58 N., R. 25 W., 80 ft. S. of SW. corner of T-rd. S., 3 ft. E. of fence, in root on W. side of twin 6-in. elm tree; copper nail and washer	935.33
Spring Hill, 0.2 mi. E. of, in S 1/2 sec. 31, T. 59 N., R. 24 W., at rd. forks, 45 ft. W. of NW. fence corner, in fence line N. of rd., in root on S. side of 12-in. locust tree; copper nail and washer	882.58
T. 59 N., R. 24 W., S. quarter cor. sec. 32, 20 ft. E. of NE. corner of T-rd. N., 1 ft. S. of fence, in root on S. side of 16-in. white-oak tree; copper nail and washer	789.68

T. 58 N., R. 24 W., about 0.2 mi. E. of NW. cor. sec. 4, 240 ft. E. of Zion Church, 60 ft. W. of T-rd. N., 6 ft. S. of wagon tracks, in root on N. side of 24-in. black-jack-oak tree; copper nail and washer	<u>Feet</u> 732.27
T. 58 N., R. 24 W., N. cor. secs. 3 and 4, 20 ft. S. and 20 ft. E. from T-rd. S., 2 ft. from fence corner; iron post stamped "Prim Trav Sta No 25 1913 Mo 715"	714.062
T. 58 N., R. 24 W., N. cor. secs. 2 and 3, at end of public rd., 0.3 mi. W. of W. bank of Thompson River, in fence line N. of rd., in root on S. side of 22-in. red-oak tree; copper nail and washer	708.13

5. FROM SOUTHWEST CORNER OF QUADRANGLE NORTH AND NORTHEAST TO SAMPSEL

Mooreville, 0.7 mi. NW. of, quarter cor. between secs. 8 and 17, T. 57 N., R. 25 W., 20 ft. SW. of SW. corner of T-rd. W., in field, in root on N. side of 17-in. white-oak tree; copper nail and washer	888.60
Oak Ridge School, near W. sixteenth cor. between secs. 4 and 9, T. 57 N., R. 25 W., in NE. corner of yard; iron post stamped "1920 Mo 834"	833.586
Sampsel, 2 mi. S. of, on line between secs. 4 and 33, Tps. 57 and 58 N., R. 25 W., 40 ft. E. of E. bank of Grand River, 30 ft. S. of SE. corner of T-rd. E., in fence line, in root on N. side of four-forked water-elm tree; copper nail and washer	703.18
Sampsel, 0.8 mi. S. of, 100 ft. S. of cor. secs. 27, 28, 33, and 34, T. 58 N., R. 25 W., 18 ft. E. of rd., in root on W. side of five-forked maple tree; copper bolt and washer stamped "B 7 No 37" (set by Morgan Engineering Co.)	699.42
Sampsel, in NE 1/4 sec. 28, T. 58 N., R. 25 W., 80 ft. SE. of Wabash Ry. sta., 65 ft. N. of Farmers Bank, in line with telegraph poles; iron post stamped "1920 Mo 709"	707.978

6. FROM SAMPSEL NORTHWEST TO WEST BORDER OF QUADRANGLE, THENCE NORTH AND EAST TO POINT NEAR SPRING HILL (leveled twice)

Sampsel, in front of Wabash Ry. sta.; top of S. rail	709.5
Sampsel, 2.8 mi. NW. of, about 0.1 mi. W. of E. quarter cor. sec. 18, T. 58 N., R. 25 W., at rd. corner from E.-N., 6 ft. E. of corner of hedge fence N. of rd.; iron post stamped "1920 Mo 733"	732.156
T. 58 N., R. 25 W., about 500 ft. W. of cor. secs. 7, 8, 17, and 18, 70 ft. S. of SW. corner of T-rd. S., in root on E. side of forked 36-in. cottonwood tree; copper nail and washer	754.49

(For balance in Gallatin quadrangle, see line 7.)

T. 58 N., R. 25 W., about 0.3 mi. N. of cor. secs. 5, 6, 7, and 8, 50 ft. S. of T-rd. W., 8 ft. W. of T-fence E., in root on W. side of 9-in. white-oak tree; copper nail and washer	915.18
Tps. 58 and 59 N., R. 25 W., near cor. secs. 5, 6, 31, and 32, at T-rd. S., 22 ft. E. of concrete walk, in fence line N. of rd., in root on S. side of 11-in. walnut tree; copper nail and washer	933.77
Tps. 58 and 59 N., R. 25 W., W. sixteenth cor. between secs. 5 and 32, 12 ft. N. and 75 ft. E. from NE. corner of T-rd. N., in root on S. side of twin honey-locust tree; copper nail and washer	938.15
Tps. 58 and 59 N., R. 25 W., 300 ft. E. of cor. secs. 4, 5, 32, and 33, 80 ft. NE. of NE. corner of Central Methodist Episcopal Chapel, 20 ft. S. of rd., at end of N.-S. fence; iron post stamped "Prim Trav Sta No 24 1913 Mo 925"	924.529
T. 58 N., R. 25 W., in NE 1/4 sec. 4, 180 ft. E. of T-rd. S., 12 ft. N. of wagon track, in root on S. side of 18-in. oak tree; copper nail and washer	913.71
Tps. 58 and 59 N., R. 25 W., cor. secs. 2, 3, 34, and 35, about 500 ft. S. of T-rd. E., in fence line E. of rd., in root on W. side of lone 16-in. walnut tree; copper nail and washer	762.77
T. 59 N., R. 25 W., in SE 1/4 sec. 35, 40 ft. SE. of SE. corner of rd. forks, in root on W. side of 28-in. white-oak tree; copper nail and washer	914.36
Spring Hill, 1 mi. W. of, near S. sixteenth cor. sec. 36, T. 59 N., R. 25 W., at NW. corner of T-rd. W.; iron post stamped "1920 Mo 929"	928.174

7. FROM SAMPSEL NORTH AND WEST ABOUT 2.8 MILES

T. 58 N., R. 25 W., in NW 1/4 NW 1/4 sec. 22, at T-rd. W., in SW. corner of yard of A. Morgan, in root of 11-in. elm tree; copper nail and washer	775.21
T. 58 N., R. 25 W., 6 ft. S. and 70 ft. E. from quarter cor. between secs. 16 and 17, in root of 13-in. walnut tree; copper nail and washer	796.14

8. FROM NEAR STURGES NORTH ALONG NORTH PART OF EAST BORDER OF QUADRANGLE TO NORTHEAST CORNER, THENCE WEST 6 MILES, THENCE SOUTH TO POINT ABOUT 2.5 MILES EAST OF SPRING HILL

Sturges, 1 mi. N. of, cor. secs. 28, 29, 32, and 33, T. 59 N., R. 23 W., at crossroads, 2 ft. N. and 8 ft. W. from NW. corner of fence, in corner of yard, in root on E. side of 25-in. maple tree; copper nail and washer	785.24
Sturges, 2 mi. N. of, cor. secs. 20, 21, 28, and 29, T. 59 N., R. 23 W., at SW. corner of crossroads; iron post stamped "1920 Mo 788"	786.910
Sturges, 3 mi. N. of, cor. secs. 16, 17, 20, and 21, T. 59 N., R. 23 W., at crossroads, 12 ft. S. of NW. corner of fence; top of N. end of iron pipe culvert	791.50

Sturges, 4 mi. N. of, cor. secs. 8, 9, 16, and 17, T. 59 N., R. 23 W., 160 ft. N. of crossroads, W. of rd., 7 ft. N. of concrete walk to farmhouse, 2 ft. W. of fence, in root on E. side of 24-in. maple tree; copper nail and washer	Feet 796.48
Sturges, 5 mi. N. of, cor. secs. 4, 5, 8, and 9, T. 59 N., R. 23 W., at crossroads, 1 ft. N. and 4 ft. W. from SW. corner of fence; iron post stamped "1920 Mo 793"	792.188
T. 60 N., R. 23 W., cor. secs. 28, 29, 32, and 33, 550 ft. N. of crossroads, E. of rd., 6 ft. W. of fence, in root on W. side of 14-in. locust tree; copper nail and washer	832.60
T. 60 N., R. 23 W., near quarter cor. between secs. 19 and 30, 120 ft. W. of lane S., 6 ft. E. of lane N., N. of rd., in root on E. side of 36-in. maple tree; copper nail and washer	766.97
T. 60 N., Rs. 23 and 24 W., cor. secs. 19, 24, 25, and 30, at T-rd. W., 4 ft. N. of NW. corner of fence; iron post stamped "1920 Mo 814"	812.710

(For balance in Trenton quadrangle, see line 1.)

T. 60 N., R. 24 W., 0.2 mi. N. of cor. secs. 22, 23, 26, and 27, 400 ft. S. of T-rd. W., E. of rd., 1 ft. W. of fence, in root on N. side of 16-in. elm tree; copper nail and washer	801.09
Pleasant Grove School, in NW. cor. sec. 35, T. 60 N., R. 24 W., at N. entrance, in N. end of wooden doorsill; copper nail and washer	778.46
T. 59 N., R. 24 W., N. cor. secs. 2 and 3, on Grundy-Livingston county line, at NE. corner of T-rd. E., 4 ft. E. of hedge-fence corner; iron post stamped "1920 Mo 789"	788.152
T. 59 N., R. 24 W., quarter cor. between secs. 2 and 3, at crossroads, on top of E. end of W. wing wall of concrete culvert; chiseled square	756.44
T. 59 N., R. 24 W., cor. secs. 10, 11, 14, and 15, at crossroads, 30 ft. SE. of NW. corner of fence, on top of W. parapet wall of concrete culvert; chiseled square	714.98
T. 59 N., R. 24 W., cor. secs. 14, 15, 22, and 23, at crossroads, at NE. corner of fence; iron post stamped "1920 Mo 711"	710.360
T. 59 N., R. 24 W., S. sixteenth cor. between secs. 15 and 16, 20 ft. S. of T-rd. W., in fence line E. of rd., in root on W. side of 16-in. elm tree; copper nail and washer	715.75
T. 59 N., R. 24 W., near center sec. 21, 400 ft. E. of foot of long hill, 130 ft. W. of angle in rd., 8 ft. N. of rd., in root on W. side of 36-in. elm tree; copper nail and washer	717.23
T. 59 N., R. 24 W., near quarter cor. between secs. 27 and 28, 330 ft. S. of rd. corner, 2 ft. E. of fence, in field, in root on W. side of 19-in. walnut tree; copper nail and washer	771.18

9. WEST ALONG MIDDLE OF NORTH BORDER OF QUADRANGLE, THENCE SOUTH TO POINT NEAR SPRING HILL

T. 60 N., R. 24 W., in SE 1/4 sec. 21, S. of T-rd. N., 3 ft. W. of gatepost, 1 ft. from fence; iron post stamped "Prim Trav Sta No 11 1913 Mo 738"	736.774
T. 60 N., R. 24 W., in NE. cor. SE 1/4 sec. 20, 0.3 mi. NW. of bridge over Thompson River, 8 ft. N. and 30 ft. W. from SW. corner of fence, 6 ft. S. of wagon tracks, in root on W. side of twin 36-in. red-oak tree; copper nail and washer	728.32
Hickory Creek, 1.1 mi. E. of, along Chicago, Rock Island & Pacific Ry., about 800 ft. SW. of center sec. 19, T. 60 N., R. 24 W., 45 ft. SE. of rd. crossing, 4 ft. N. and 1 ft. W. from fence corner; iron post stamped "1920 Mo 765"	763.701
T. 60 N., R. 24 W., center sec. 30, 14 ft. N. and 30 ft. W. from SW. corner of T-rd. W., in root on E. side of 37-in. elm tree; copper nail and washer	745.40
T. 60 N., R. 24 W., in SW 1/4 sec. 31, at W. entrance to Shelburn Church, on top of S. end of top concrete step; chiseled square	788.46
T. 59 N., R. 25 W., N. cor. secs. 1 and 2, on Grundy-Livingston county line, at crossroads, 1 ft. N. and 4 ft. W. from SW. corner of fence; iron post stamped "1920 Mo 846"	844.779
T. 59 N., R. 25 W., N. sixteenth cor. between secs. 11 and 12, NE. of rd. forks, at NE. corner fence post, in root on NE. side of 17-in. walnut tree; copper nail and washer	773.89
T. 59 N., R. 25 W., center of NE 1/4 sec. 14, 240 ft. S. of T-rd. E., 10 ft. E. of rd., 8 ft. W. of fence, in root on W. side of 20-in. elm tree; copper nail and washer	923.15
T. 59 N., R. 25 W., near E. sixteenth cor. sec. 23, 0.8 mi. W. of Pinkley School, at T-rd. N., 4 ft. N. and 1 ft. E. from NW. corner of fence; iron post stamped "1920 Mo 949"	947.755
T. 59 N., R. 25 W., near center sec. 24, at W. entrance to Pinkley School, on top of NE. corner of concrete platform which forms bottom step; chiseled square	971.04

10. WEST ALONG WEST PART OF NORTH BORDER OF QUADRANGLE, THENCE SOUTH ABOUT 1.5 MILES

Hickory Creek, in front of Chicago, Rock Island & Pacific Ry. sta.; top of rail	753.1
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(For balance in Trenton quadrangle, see line 2.)

Hickory Creek, 1.7 mi. W. of, along Chicago, Rock Island & Pacific Ry., 460 ft. N. of center sec. 22, T. 60 N., R. 25 W., 40 ft. SE. of rd. crossing, 2 ft. N. and 4 ft. E. from fence corner; iron post stamped "1920 Mo 803"	802.389
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Hickory Creek, 2.1 mi. W. of, along Chicago, Rock Island & Pacific Ry., about 0.3 mi. W. of center sec. 22, T. 60 N., R. 25 W., at bridge over Gees Creek, on top of S. end of E. concrete abutment; chiseled square

	<u>Feet</u>
T. 60 N., R. 25 W., center sec. 21, at rd. corner from N.-W., 16 ft. N. of SE. corner of fence, in fence line, in root on SW. side of 26-in. elm tree; copper nail and washer	793.57
T. 60 N., R. 25 W., quarter cor. between secs. 19 and 20, 15 ft. N. of T-rd. S.; iron post stamped "Prim Trav Sta No 10 1913 Mo 943"	801.23
T. 60 N., R. 25 W., in NW 1/4 sec. 29, at W. entrance to Gees Creek Church (formerly Mount Pleasant Church), on top of SW. corner of fourth concrete step; chiseled square	942.215
T. 60 N., R. 25 W., cor. secs. 29, 30, 31, and 32, 45 ft. S. and 120 ft. W. from crossroads, 30 ft. S. of fence, in field, in root on NW. side of 30-in. locust tree; copper nail and washer	928.68
	903.43

11. NORTH ALONG NORTH PART OF WEST BORDER OF QUADRANGLE

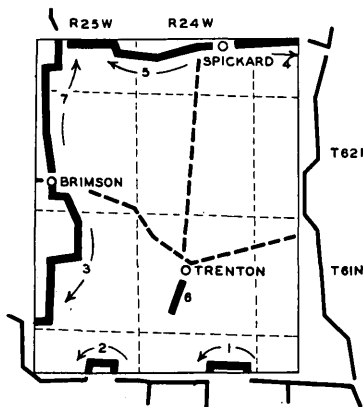
T. 59 N., R. 25 W., about 0.2 mi. E. of cor. secs. 29, 30, 31, and 32 (?), at T-rd. E., E. of N.-S. rd., 30 ft. E. of fence, in field, in root on W. side of 17-in. elm tree; copper nail and washer	908.49
T. 59 N., R. 25 W., cor. secs. 19, 20, 29, and 30, at T-rd. S., 4 ft. S. of SW. corner of fence, 1 ft. E. of fence; iron post stamped "1920 Mo 931"	930.281
T. 59 N., R. 25 W., near W. sixteenth cor. between secs. 17 and 20, 120 ft. S. of junction of lane W., W. of rd., 1 ft. E. of fence, in root on E. side of 24-in. cottonwood tree; copper nail and washer	943.04

(For balance in Gallatin quadrangle, see line 8.)

T. 59 N., R. 25 W., quarter cor. between secs. 5 and 8, 35 ft. E. of T-rd. S., N. of rd. at lane N.; top of W. end of 8-in. iron pipe culvert	956.52
T. 59 N., R. 25 W., W. sixteenth cor. on N. line sec. 5, at T-rd. S. on Grundy-Livingston county line, 1 ft. N. and 5 ft. W. from fence corner; iron post stamped "1920 Mo 911"	910.292

For additional level lines along Wabash Ry. and Chicago, Milwaukee, St. Paul and Pacific R.R., refer to United States Coast and Geodetic Survey second-order lines, Gallatin to Sumner and Chillicothe to Lawson.

TRENTON QUADRANGLE (Latitude 40°00'-40°15'; longitude 93°30'-93°45') Grundy County



1. WEST ALONG EAST PART OF SOUTH BORDER OF QUADRANGLE (by S. L. Parker in 1920) (Continued from Chillicothe quadrangle; see line 8.)

T. 60 N., R. 23 W., 41 ft. S. of quarter cor. between secs. 19 and 24, 50 ft. N. of T-rd. W., in fence line E. of rd., in root on S. side of forked 18-in. wild-cherry tree; copper nail and washer	822.01
T. 60 N., R. 24 W., near E. sixteenth cor. sec. 23, 175 ft. N. of fence corner at NW. corner of T-rd. N., 3 ft. W. of fence, in root on N. side of triple elm tree; copper nail and washer	749.98
T. 60 N., R. 24 W., cor. secs. 14, 15, 22, and 23, 70 ft. SW. of fence corner at SW. corner of crossroads, in root on N. side of 40-in. cottonwood tree; copper nail and washer	808.20

T. 60 N., R. 24 W., cor. secs. 14, 15, 22, and 23, SW. of U.S. Highway 65 at cross rd., 4 ft. S. of fence corner; iron post stamped "1920 Mo 809" Feet
808.021

(Continued in Chillicothe quadrangle; see line 8.)

2. WEST ALONG WEST PART OF SOUTH BORDER OF QUADRANGLE

(Continued from Chillicothe quadrangle; see line 10.)

Hickory Creek, 0.2 mi. W. of, along Chicago, Rock Island & Pacific Ry., at W. end of bridge over Hickory Creek, on top of S. end of concrete bridge seat; chiseled square 755.47

(Continued in Chillicothe quadrangle; see line 10.)

3. FROM BRIMSON SOUTH ALONG WEST BORDER OF QUADRANGLE (by G. R. Hamlin in 1936)

U.S.C. & G.S. standard disk stamped "E 18 1933" 776.278

Sugar Creek, S. of Brimson, dredged channel under County Route H bridge; surface of water at 1:45 p.m. Dec. 23, 1935 750.4

T-rd. W., in top of W. end of sill at SW. corner of bridge; copper nail and washer 770.22

Bridge, on top of NE. corner of concrete floor rail; chiseled square 773.31

Brimson, 1.2 mi. SE. of, near quarter cor. between secs. 32 and 33, T. 62 N., R. 25 W., 40 ft. S. and 60 ft. E. from crossroads, in root on E. side of 36-in. cottonwood tree; copper nail and washer 800.03

Bridge 17, on top of NE. corner of concrete floor rail; chiseled square 787.70

Brimson, 2 mi. SE. of, along County Route H, on line between secs. 4 and 33, Tps. 61 and 62 N., R. 25 W., 66 ft. N. and about 190 ft. W. from junction of rd. N., in root on S. side of 30-in. elm tree; copper nail and washer 870.54

Top of ridge, on S. end of curve, at telephone pole; surface of ground 928.8

Crossroads, in NE. corner of, at telephone pole; surface of ground 922.8

Brimson, about 3.2 mi. SE. of, in sec. 4, T. 61 N., R. 25 W., 15 ft. S. and about 105 ft. W. from entrance to Wittona Park, in root on E. side of 24-in. elm tree; copper nail and washer 922.90

Concrete culvert, on top of NW. corner of W. head wall; chiseled square 914.28

Brimson, 4.7 mi. SE. of, along County Route H, 125 ft. N. and 15 ft. W. from cor. secs. 9, 10, 15, and 16, T. 61 N., R. 25 W., in middle of W. head wall of concrete culvert; standard tablet stamped "1 H 1936" 950.656

Junction of State Highway 6 and County Route H, 20 ft. N. and 30 ft. E. from, on top of NW. corner of E. head wall of concrete culvert; chiseled square 950.64

T. 61 N., R. 25 W., approximate center sec. 16, 15 ft. S. and 210 ft. E. from, on top of SW. corner of S. head wall of concrete culvert; chiseled square 914.23

Crossroads, in SW. corner of, at telephone pole; surface of ground 941.8

T-fence S., at corner post; surface of ground 959.1

T. 61 N., R. 25 W., approximate center sec. 17, 90 ft. S. and 75 ft. E. from, in root on E. side of 30-in. elm tree; copper nail and washer 881.92

T. 61 N., R. 25 W., quarter cor. between secs. 17 and 20, 90 ft. N. and 15 ft. W. from State Highway 6 at rd. W., in middle of W. head wall of concrete culvert; standard tablet stamped "2 H 1936" 906.641

Corner of yard fence, about 25 ft. N. and 70 ft. E. from, on top of NE. corner of E. head wall of concrete culvert; chiseled square 892.42

T. 61 N., R. 25 W., approximate quarter cor. between secs. 20 and 29, 330 ft. N. and 130 ft. W. from, in root on NE. side of 24-in. elm tree; copper nail and washer 943.52

Lawn fence W., at corner post; surface of ground 945.0

T-rd. W., at center of; surface of rd. 921.4

T-fence W., 120 ft. S. and 50 ft. E. from, near entrance to farm, in root on N. side of 30-in. white-oak tree; crossed nails 849.28

T. 61 N., R. 25 W., approximate center sec. 32, 200 ft. S. and 15 ft. E. from, in fence line S., in root on W. side of 20-in. elm tree; copper nail and washer 801.16

Bridge, on top of SE. wing wall; chiseled square 799.28

Top of hill, S. of rd., in root on W. side of 12-in. white-oak tree; crossed nails 864.24

4. FROM SPICKARD EAST ALONG NORTH BORDER OF QUADRANGLE (by Cornish Beck in 1936)

U.S.C. & G.S. standard disk stamped "B 82 1935" 800.481

Spickard, 2 mi. E. of, in NE 1/4 sec. 23, T. 63 N., R. 24 W., at top of hill, 20 ft. S. of rd., in front of farmhouse of W. D. Wyatt, in concrete post; standard tablet stamped "1104 1935" 905.127

Spickard, about 3 mi. E. of, center of NE 1/4 sec. 24, T. 63 N., R. 24 W., 30 ft. S. and 255 ft. E. from jog in rd. at cross fence, on SE. wing wall of concrete culvert; chiseled square 859.96

Spickard, about 4 mi. E. of, near N. sixteenth cor. sec. 19, T. 63 N., R. 23 W., 105 ft. N. and 60 ft. E. from NE. corner of Williams School, in corner fence post; spike 972.68

T-rd. N., 16 ft. S. of, in corner post; crossed nails 930.79

Spickard, 5 mi. E. of, in NE 1/4 NW 1/4 sec. 20, T. 63 N., R. 23 W., 21 ft. N. and 10 ft. E. from T-rd. S., in front of farmhouse of Gilbert Howe, in concrete post; standard tablet stamped "1405 1935" 951.255

(Continued in Galt quadrangle; see line 1.)

5. FROM SPICKARD WEST ALONG NORTH BORDER OF QUADRANGLE

Spickard, 0.6 mi. SW. of, along County Route C, about 130 ft. N. of S. Sixteenth cor. sec. 21, T. 63 N., R. 24 W., 60 ft. S. and 25 ft. W. from cross rd., in concrete post; standard tablet stamped "1403 1935"	<u>Feet</u> 785.980
Spickard, about 1.3 mi. W. of, along County Route C, center of SE 1/4 sec. 20, T. 63 N., R. 24 W., 16 ft. S. and 13 ft. E. from cross rd., on head wall of culvert; chiseled square	797.59
Spickard, about 2.4 mi. W. of, along County Route C, S. sixteenth cor. rd. 19, T. 63 N., R. 24 W., 12 ft. S. and 16 ft. E. from junction of rd. S., on E. edge of iron pipe culvert; chiseled cross	856.74
Spickard, 3.5 mi. W. of, along County Route C, about 310 ft. W. of center sec. 24, T. 63 N., R. 25 W., 60 ft. N. of highway, 30 ft. S. of rd. E., about 150 ft. SW. of farmhouse owned by Wirt Welch, in concrete post; standard tablet stamped "1402 1935"	933.772
T. 63 N., R. 25 W., E. sixteenth cor. between secs. 14 and 23, 113 ft. S. and 30 ft. W. from County Route C at cross rd., in telephone pole; spike	945.04
T. 63 N., R. 25 W., 250 ft. W. of cor. secs. 14, 15, 22, and 23, on County Route C, on SE. wing wall of bridge; chiseled square	846.64
T. 63 N., R. 25 W., cor. secs. 15, 16, 21, and 22, 27 ft. S. and 24 ft. W. from County Route C at cross rd., 2 ft. N. of fence, in concrete post; standard tablet stamped "1401 1935"	931.651
T. 63 N., R. 25 W., about 200 ft. S. of cor. secs. 16, 17, 20, and 21, 56 ft. N. and 20 ft. W. from W. end of County Route C at N.-S. rd., in root on NE. side of 30-in. locust tree; copper nail and washer	804.95
T-rd. S., 38 ft. S. and 24 ft. E. from, in W. side of 22-in. post-oak tree; bent nail	820.32

6. LINE TO DETERMINE ELEVATION OF WATER-RESOURCES GAGE 1 MILE SOUTH OF TRENTON

U.S.C. & G.S. standard disk stamped "H 82 1935"	816.534
Trenton, 1 mi. S. of, in SE 1/4 sec. 20, T. 61 N., R. 24 W., at bridge over Thompson River, at W. end of upstream truss, on upstream anchor-bolt; chiseled cross (set by water-resources branch of U. S. Geol. Survey)	748.798

7. FROM BRIMSON NORTH ALONG WEST BORDER OF QUADRANGLE (by W. V. Kennedy in 1937)

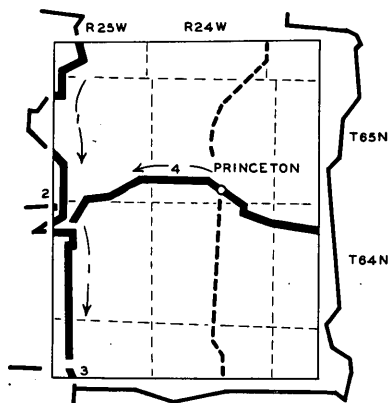
Church at top of hill, in front of, on SW. corner of concrete step; chiseled square	805.86
Brimson, at NW. limits of, 150 ft. S. and 20 ft. E. from T-rd. S., in root on E. side of 12-in. maple tree; copper nail and washer	796.56
Brimson, 1.2 mi. N. of, W. sixteenth cor. between secs. 17 and 20, T. 62 N., R. 25 W., 33 ft. N. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "887 1934"	795.771
Reference mark, 225 ft. S. and 10 ft. W. from tablet, in root on E. side of 18-in. white-oak tree; copper nail and washer	789.35
T. 62 N., R. 25 W., center of SW 1/4 sec. 17, in root on N. side of 20-in. hickory tree; copper nail and washer	856.42
T. 62 N., R. 25 W., 660 ft. E. of cor. secs. 7, 8, 17, and 18, 50 ft. N. and 75 ft. E. from farmhouse, in root on N. side of 26-in. elm tree; copper nail and washer	840.60
Top of hill, 90 ft. N. and 110 ft. E. from rd. at jog E., in root on S. side of 20-in. elm tree; copper nail and washer	807.82
T-rd. W., 20 ft. S. and 110 ft. W. from, in root on S. side of 18-in. wild-cherry tree; crossed nails	787.70
T. 62 N., R. 25 W., N. sixteenth cor. between secs. 7 and 8, 100 ft. E. of rd. at fence E., in root on W. side of 30-in. white-oak tree; copper nail and washer	771.25
T-fence W., 55 ft. N. of, in root on S. side of 20-in. elm tree; crossed nails	771.60
Tps. 62 and 63 N., R. 25 W., cor. secs. 5, 6, 31, and 32, 90 ft. E. of steel bridge over Cat Creek, 27 ft. N. of dwelling of O. S. Whitt, 57 ft. W. of well, in concrete post; standard tablet stamped "888 1934"	777.535
Gatepost, W. of rd., on E. side of concrete base; chiseled square	777.07
T. 63 N., R. 25 W., near cor. secs. 29, 30, 31, and 32, in steel head-plate on top of SE. pier of steel girder bridge over Thompson River; top of bolt	781.45
T-fence S., 5 ft. S. and 20 ft. W. from, in root on E. side of 24-in. walnut tree; crossed nails	776.68
T. 63 N., R. 25 W., cor. secs. 28, 29, 32, and 33, 110 ft. S. and 70 ft. E. from T-rd. N., in root on NW. side of 14-in. hickory tree; copper nail and washer	776.56
T-fence E., on W. side of concrete base of corner post; chiseled square	777.88
T. 63 N., R. 25 W., cor. secs. 20, 21, 28, and 29, 30 ft. S. and 18 ft. W. from crossroads, in concrete post; standard tablet stamped "889 1934"	784.975
Concrete curb, on top of SW. corner of; chiseled square	793.06

(Continued in Princeton quadrangle; see line 3.)

For additional level lines along Quincy, Omaha & Kansas City R.R. and Chicago, Rock Island & Pacific Ry., refer to United States Coast and Geodetic Survey first-order line, Milan, Mo., to Hamburg, Iowa; and second-order line, Chariton, Iowa to Trenton, Mo.

PRINCETON QUADRANGLE
(Latitude 40°15'-40°30'; longitude 93°30'-93°45')

Grundy and Mercer Counties



1. SOUTH ALONG WEST BORDER OF QUADRANGLE (by F. C. Lentz in 1936)
(Continued from Lineville quadrangle; see line 1.)

	Feet
T. 66 N., R. 25 W., center of NE 1/4 sec. 28, 27 ft. S. and 42 ft. W. from County Route B at rd. E., in concrete post; standard tablet stamped "871 1934"	999.918
T. 66 N., R. 25 W., in SE 1/4 sec. 28, 25 ft. N. and 160 ft. W. from County Route B at cross rd., in root on N. side of 14-in. elm tree; copper nail and washer	1,057.53
T. 66 N., R. 25 W., 0.2 mi. E. of cor. secs. 28, 29, 32, and 33, 200 ft. E. of Liberty Church, 40 ft. S. of rd., in root on NE. side of 48-in. silver-maple tree; copper nail and washer	1,072.12
T. 66 N., R. 25 W., S. sixteenth cor. between secs. 32 and 33, 100 ft. S. of dwelling of Glen Dennis, 20 ft. E. of rd., in root of 16-in. maple tree; copper nail and washer	1,043.54
T. 66 N., R. 25 W., S. cor. secs. 32 and 33, 20 ft. S. and 150 ft. W. from T-rd. N., 20 ft. S. and 45 ft. E. from T-rd. S., in root on E. side of 12-in. maple tree; copper nail and washer	1,039.48
T. 65 N., R. 25 W., 0.8 mi. N. of quarter cor. between secs. 5 and 8, 20 ft. E. of T-rd. W., 100 ft. SW. of farmhouse of Alfred Hardy, in concrete post; standard tablet stamped "870 1934"	1,031.139

(For balance in Blythedale quadrangle, see line 5.)

T. 65 N., R. 25 W., near cor. secs. 19, 20, 29, and 30, 60 ft. S. and 40 ft. W. from T-rd. S., 0.5 mi. N. of Cain School, 200 ft. SE. of farmhouse, in root on SW. side of 18-in. white-oak tree; copper nail and washer	1,003.04
T. 65 N., R. 25 W., cor. secs. 29, 30, 31, and 32, 100 ft. S. and 90 ft. W. from T-rd. W., in root on E. side of 18-in. white-oak tree; copper nail and washer	971.91
Tps. 64 and 65 N., R. 25 W., cor. secs. 5, 6, 31, and 32, 27 ft. S. and 33 ft. E. from crossroads, in concrete post; standard tablet stamped "867 1934"	939.453
Reference mark, 15 ft. S. and 5 ft. W. from tablet, in root on N. side of 15-in. pecan tree; copper nail and washer	938.19

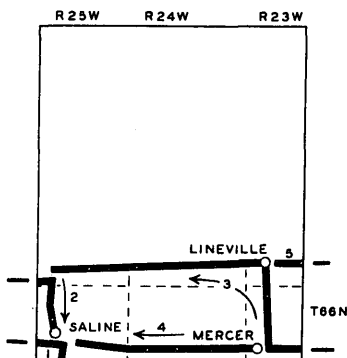
(For balance in Blythedale quadrangle, see line 5.)

T. 64 N., R. 25 W., in SW 1/4 sec. 8, 100 ft. S. and 150 ft. W. from State Highway 4 at rd. W., 40 ft. E. of High Point School, on NE. corner of concrete walk; chiseled square	954.89
Junction of rd. W., on top of S. head wall of concrete culvert; chiseled square	945.61
T. 64 N., R. 25 W., in SE 1/4 sec. 18, 2.5 mi. E. of Mount Moriah along State Highway 4, 400 ft. N. of farmhouse, 60 ft. S. and 50 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "866 1934"	932.821
T. 64 N., R. 25 W., 460 ft. N. of cor. secs. 19, 20, 29, and 30, 85 ft. E. of rd., on SE. side of small pond, in root of 40-in. post-oak tree; copper nail and washer	826.58
T. 64 N., R. 25 W., quarter cor. between secs. 29 and 30, 15 ft. N. and 60 ft. E. from crossroads, in root on W. side of 14-in. willow tree; copper nail and washer	827.32
T. 64 N., R. 25 W., in NW 1/4 NW 1/4 sec. 32, 106 ft. W. of Hamilton School, 50 ft. E. of rd., in concrete post; standard tablet stamped "865 1934"	886.776
T. 64 N., R. 25 W., quarter cor. between secs. 31 and 32, 20 ft. N. and 40 ft. E. from crossroads, 20 ft. SW. of front door of church, on NW. corner of concrete walk; chiseled square	875.45

Tps. 63 and 64 N., R. 25 W., cor. secs. 5, 6, 31, and 32, 75 ft. S. and 30 ft. W. from rd. corner, in root on E. side of 24-in. white-oak tree; copper nail and washer	<u>Feet</u> 890.75
T. 63 N., R. 25 W., S. sixteenth cor. between secs. 5 and 6, 15 ft. N. and 20 ft. E. from T-rd. E., on concrete head wall of culvert; chiseled square	829.30
T. 63 N., R. 25 W., cor. secs. 7, 8, 17, and 18, 35 ft. N. and 25 ft. W. from T-rd. N., in concrete post; standard tablet stamped "864 1934"	794.162
Reference mark, 40 ft. S. and 375 ft. E. from tablet, in root on W. side of 14-in. elm tree; copper nail and washer	794.21
2. NEAR MIDDLE OF WEST BORDER OF QUADRANGLE (Continued from Blythedale quadrangle; see line 3.)	
Tps. 64 and 65 N., R. 25 W., 0.1 mi. W. of cor. secs. 5, 6, 31, and 32, at bottom of hill, 15 ft. S. of abandoned rd., in root of triple elm tree; copper nail and washer	841.46
3. NEAR SOUTHWEST CORNER OF QUADRANGLE (by W. V. Kennedy in 1937) (Continued from Trenton quadrangle; see line 7.)	
T-rd. S., 35 ft. S. and 25 ft. E. from, in root on W. side of 16-in. white-oak tree; crossed nails	820.40
T. 63 N., R. 25 W., near cor. secs. 8, 9, 16, and 17, at SW. corner of cemetery, in root on S. side of 15-in. hickory tree; copper nail and washer	884.79
T-fence S., in root on S. side of 30-in. elm tree; crossed nails	824.59
4. WEST THROUGH CENTER OF QUADRANGLE TO WEST BORDER (by Cornish Beck in 1937) (Continued from Lucerne quadrangle; see line 6.)	
Princeton, 2.3 mi. S. of, along U.S. Highway 65, thence about 2 mi. E. along County Route E, near E. sixteenth cor. between secs. 6 and 7, T. 64 N., R. 23 W., 30 ft. W. of junction of rd. S., in telephone pole; spike	950.29
Princeton, 2.3 mi. S. of, along U.S. Highway 65, thence 1.1 mi. E. along County Route E, in NE 1/4 SE 1/4 sec. 1, T. 64 N., R. 24 W., 170 ft. N. and 100 ft. W. from highway at fences N. and S., 50 ft. S. of farmhouse, 3 ft. S. of 20-in. sycamore tree, in concrete post; standard tablet stamped "1416 C W A 1934"	906.412
Princeton, about 2.3 mi. S. of, along U.S. Highway 65, in SE 1/4 sec. 2, T. 64 N., R. 24 W., 75 ft. N. and 30 ft. W. from junction of County Route E, in root on E. side of 16-in. hickory tree; copper nail and washer	1,039.52
Princeton, about 1.3 mi. S. of, along U.S. Highway 65, in SE 1/4 sec. 35, T. 65 N., R. 24 W., 45 ft. N. and 55 ft. W. from junction of rd. E., on top of concrete right-of-way post; chiseled cross	1,003.78
Princeton, in SE. part of, 150 ft. S. and 35 ft. W. from intersection of U.S. Highway 65 and Main Street, 4 ft. E. of fence, in concrete post; standard tablet stamped "1415 C W A 1934"	854.875
Junction of U.S. Highway 65 and State Highway 4, 30 ft. N. and 27 ft. W. from, on curbing; chiseled square	960.62
U.S.C. & G.S. standard disk stamped "T 81 1935"	828.653
Princeton, 1 mi. W. of, along State Highway 4, in SW 1/4 sec. 28, T. 65 N., R. 24 W., 50 ft. N. and 150 ft. E. from E.-W. cross rd., 150 ft. SW. of dwelling in cedar grove, in concrete post; standard tablet stamped "1414 C W A 1934"	891.074
Princeton, about 2.2 mi. W. of, along State Highway 4, on line between secs. 29 and 30, T. 65 N., R. 24 W., 27 ft. N. and 24 ft. W. from junction of rd. N., on head wall of culvert; chiseled square	970.15
Junction of rd. S., 30 ft. N. and 80 ft. W. from, in telephone pole; spike	1,006.62
Princeton, about 3.4 mi. W. of, along State Highway 4, in SE 1/4 sec. 25, T. 65 N., R. 25 W., 10 ft. N. and 100 ft. E. from junction of rd. N., on NW. wing wall of bridge; chiseled square	919.16
Princeton, about 4.5 mi. W. of, along State Highway 4, in SW 1/4 NW 1/4 sec. 36, T. 65 N., R. 25 W., 87 ft. S. and 33 ft. W. from cross rd., in concrete post; standard tablet stamped "1413 C W A 1934"	1,010.566
T. 65 N., R. 25 W., near S. sixteenth cor. sec. 35, 145 ft. W. of junction of State Highway 4 and County Route E, on top of right-of-way post; chiseled cross	1,028.42
T. 65 N., R. 25 W., S. quarter cor. sec. 34, 30 ft. N. and 24 ft. E. from State Highway 4 at rd. N., on head wall of culvert; chiseled square	987.59
T. 64 N., R. 25 W., center sec. 4, 17 ft. S. and 307 ft. E. from corner-stone, 5 mi. NE. of Mount Moriah along State Highway 4, 45 ft. S. of highway, in front yard of farmhouse of John Runyan, in concrete post; standard tablet stamped "1412 C W A 1934"	978.626
T. 64 N., R. 25 W., in NE 1/4 sec. 8, on State Highway 4, on NE. wing wall of bridge J-639; chiseled square	856.71
Junction of rd. NW., 26 ft. W. of, on head wall of culvert; chiseled square	943.11

For an additional level line along Chicago, Rock Island & Pacific Ry., refer to United States Coast and Geodetic Survey second-order line, Chariton, Iowa to Trenton, Mo.

LINEVILLE QUADRANGLE*
(Latitude 40°30'-40°45'; longitude 93°30'-93°45')
Mercer County



1. IN SOUTHWEST CORNER OF QUADRANGLE (by F. C. Lentz in 1936)
(Continued from Lamoni quadrangle; see line 1.)

T. 66 N., R. 25 W., cor. secs. 16, 17, 20, and 21, 15 ft. N. and 30 ft. E. from crossroads, in root on N. side of 20-in. elm tree; copper nail and washer	<u>Feet</u> 1,012.79
T. 66 N., R. 25 W., 100 ft. N. of line between secs. 16 and 21, about 0.5 mi. S. of Saline, along Chicago, Burlington & Quincy R.R., 45 ft. E. of track, in root on SW. side of 12-in. elm tree; copper nail and washer	950.83
T. 66 N., R. 25 W., 189 ft. E. of cor. secs. 15, 16, 21, and 22, 41 ft. W. of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 72 J S 1923 Mo"	1,056.226
Reference mark, about 150 ft. SE. of tablet, on NW. corner of top step of concrete walk to dwelling; chiseled square	1,054.95
T. 66 N., R. 25 W., quarter cor. between secs. 21 and 28, 55 ft. N. and 40 ft. W. from County Route B at rd. E., in root of 8-in. elm tree; copper nail and washer	1,036.65

(Continued in Princeton quadrangle; see line 1.)

2. FROM POINT ABOUT 1 MILE SOUTH OF IOWA-MISSOURI STATE LINE SOUTH
ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO SALINE (by
F. C. Lentz in 1936-37)
(Continued from Lamoni quadrangle; see line 2.)

T. 67 N., R. 25 W., in SE 1/4 SE 1/4 sec. 32, 32 ft. E. of T-rd. w., 10 ft. E. of Chicago, Burlington & Quincy R.R., in concrete post; standard tablet stamped "872 1934"	1,076.952
Reference mark, 30 ft. S. and 50 ft. W. from tablet, in root on S. side of triple locust tree; copper nail and washer	1,078.09
T. 66 N., R. 25 W., approximate quarter cor. between secs. 4 and 5, 60 ft. E. of Chicago, Burlington & Quincy R.R., 10 ft. S. of rd., on W. end of head wall of concrete culvert; chiseled square	1,057.44
T. 66 N., R. 25 W., in W 1/2 sec. 9, 40 ft. W. of Chicago, Burlington & Quincy R.R., 115 ft. S. of rd., in root on S. side of 16-in. elm tree; copper nail and washer	986.58
Saline, in N 1/2 sec. 16, T. 66 N., R. 25 W., about 700 ft. S. of Chicago, Burlington & Quincy R.R. sta. 250 ft. E. of T-rd. W., 200 ft. E. of track, in root on W. side of 48-in. elm tree; copper nail and washer	949.71

3. FROM POINT NEAR SOUTHEAST CORNER OF QUADRANGLE NORTH TO IOWA-MISSOURI STATE LINE; THENCE WEST TO POINT NEAR WEST BORDER (by Cornish Beck and J. J. Crane in 1936-37)
(Continued from Allerton quadrangle; see line 1.)

Mercer, 1.2 mi. E. of, along County Route M, N. sixteenth cor. between
secs. 20 and 21, T. 66 N., R. 23 W., 28 ft. N. and 18 ft. W. from old
cross rd., in concrete post; standard tablet stamped "Prim Trav Sta
No 75 L S 1923 Mo" 1,049,339
U.S.C. & G.S. standard disk stamped "P 81 1935" 1,076,763

*The greater part of this quadrangle lies in Iowa.

T. 66 N., R. 23 W., near center of NE 1/4 sec. 18, 15 ft. S. and 18 ft. W. from U.S. Highway 65 at cross rd., on head wall of culvert; chiseled square	<u>Feet</u> 1,075.54
Lineville, 3 mi. S. of, in SE 1/4 NE 1/4 sec. 7, T. 66 N., R. 23 W., 11 ft. S. and 16 ft. W. from rd. at gate to cemetery, in concrete post; standard tablet stamped "1111 1934"	1,086.546
T. 66 N., R. 23 W., in NE 1/4 sec. 6, 16 ft. N. and 21 ft. W. from U.S. Highway 65 at cross rd., in telephone pole; spike	1,068.27
Cross rd., 22 ft. N. and 25 ft. E. from, on head wall of culvert; chiseled square	1,096.72
U.S.C & G.S. standard disk stamped "L 81 1935"	1,095.277
Lineville, in SW. corner of park, 37 ft. N. and 35 ft. E. from U.S. Highway 65 at state line rd., 65 ft. N. of Iowa-Mo. State line, in concrete post; standard tablet stamped "T T 49 J J 1936"	1,092.561
Lineville, 1.1 mi. W. of, along Iowa-Mo. State line, 20 ft. N. and 20 ft. W. from rd. corner N.-W., in root on S. side of pine tree; copper nail and washer	1,073.00
T-rd. S., 60 ft. S. and 20 ft. W. from, in E. side of 12-in. elm tree; crossed nails	1,046.94
Lineville, about 2 mi. W. of, near NW. cor. sec. 25; T. 67 N., R. 24 W., on Iowa-Mo. State line, on SE. corner of W. iron sill of bridge; chiseled square	938.18
Lineville, 3.1 mi. W. of, along Iowa-Mo. State line rd., in SW 1/4 sec. 26, T. 67 N., R. 24 W., 25 ft. S. and 13 ft. W. from junction of private entrance S., in concrete post; standard tablet stamped "T T 48 J J 1936"	968.606
Lineville, about 4.2 mi. W. of, in NW 1/4 sec. 34, T. 67 N., R. 24 W., about 0.3 mi. S. of crossroads, on Iowa-Mo. State line, in E. side of S. wooden sill of bridge; copper nail and washer	898.80
Lineville, about 5.3 mi. W. of, center of SW 1/4 sec. 34, T. 67 N., R. 24 W., 0.2 mi. W. of crossroads, 16 ft. S. of rd. at N.-S. fences, in telephone pole; spike	904.97
Bridge over Weldon River, on top of SW. rivet in SW. pier; chiseled cross	879.33
Lineville, 6.4 mi. W. of, in SE 1/4 SW 1/4 sec. 33, T. 67 N., R. 24 W., 0.5 mi. W. of Weldon River, 22 ft. N. of rd., 47 ft. S. and 12 ft. W. from dwelling of Albert Cox, in concrete post; standard tablet stamped "T T 47 J J 1936"	900.692
T-rd. S., 12 ft. N. and 16 ft. W. from, in fence post; crossed nails	1,021.67
T. 67 N., R. 24 W., in S 1/2 sec. 32, 70 ft. S. and 70 ft. W. from SW. corner of New Zion School; 45 ft. N. of rd., in root on S. side of 7-in. hickory tree; copper nail and washer	1,008.94
T. 67 N., R. 24 W., near S. cor. secs. 31 and 32, 115 ft. N. and 30 ft. W. from crossroads, in root on N. side of 17-in. hickory tree; crossed nails	1,011.90
T. 67 N., R. 24 W., in SE 1/4 sec. 30, on Iowa-Mo. State line, 130 ft. E. of T-rd. N., 22 ft. N. and 36 ft. W. from rd. corner W.-S., in concrete post; standard tablet stamped "T T 46 J J 1936"	1,029.589
T-rd. S., 20 ft. N. and 50 ft. E. from, in root on W. side of small, twin oak tree; crossed nails	987.46
T. 67 N., R. 25 W., in sec. 25, 20 ft. N. and 60 ft. E. from T-rd. N., on top of Iowa-Mo. State line marker; painted square	905.30
Bridge over Little River, at W. end of, on Iowa-Mo. State line, in N. wooden pier; copper nail and washer	900.83
T. 67 N., R. 25 W., in NW 1/4 NW 1/4 sec. 35, 20 ft. N. and 30 ft. W. from T-rd. N., on head wall of concrete culvert; chiseled square	922.57
T. 67 N., R. 25 W., cor. secs. 26, 27, 34, and 35, 125 ft. N. and 105 ft. W. from, 30 ft. S. and 105 ft. W. from T-rd. S., in concrete post; standard tablet stamped "T T 45 J J 1936"	918.887
Dwelling of George Griffin, 100 ft. NW. of, 30 ft. S. of rd., in NW. corner of yard, in root on E. side of 8-in. white-oak tree; crossed nails	1,042.33
T. 67 N., R. 25 W., near cor. secs. 27, 28, 33, and 34, 90 ft. N. and 6 ft. W. from T-rd. S., in root on S. side of 22-in. walnut tree; copper nail and washer	966.99
T. 67 N., R. 25 W., in E 1/2 sec. 32, 150 ft. S. and 20 ft. W. from T-rd. E., in root on E. side of 16-in. ash tree; copper nail and washer	1,088.67

4. FROM MERCER WEST ALONG SOUTH BORDER OF QUADRANGLE (by J. J. Crane in 1937)

T. 66 N., Rs. 23 and 24 W., cor. secs. 19, 24, 25, and 30, 50 ft. S. and 25 ft. W. from T-rd. S., in fence line, in root on W. side of 12-in. elm tree; copper nail and washer	1,085.71
Center sec. 24, 12 ft. N. of rd., in root on N. side of 20-in. elm tree; crossed nails	1,038.77
T. 66 N., R. 24 W., quarter cor. between secs. 23 and 24, 15 ft. N. and 30 ft. W. from T-rd. N., in fence line, in root on NW. side of 16-in. oak tree; copper nail and washer	1,048.50
T. 66 N., R. 24 W., cor. secs. 14, 15, 22, and 23, 22 ft. N. and 15 ft. E. from T-rd. S., 36 ft. SE. of dwelling of J. D. McIntosh, in concrete post; standard tablet stamped "Prim Trav Sta No 74 L S 1923 Mo"	989.569
Bridge over Weldon River, at W. end of, on rivet head in S. guardrail; chiseled cross	864.08
T. 66 N., R. 24 W., quarter cor. between secs. 16 and 21, 100 ft. S. and 100 ft. E. from T-rd. E., in root on NE. side of 24-in. white-oak tree; copper nail and washer	984.68
Bridge over Little River, at W. end of, in upstream side, on bolt head; chiseled cross	972.43

T. 66 N., R. 24 W., W. sixteenth cor. between secs. 17 and 20, 90 ft. S. and 30 ft. E. from crossroads, in root on E. side of 24-in. cottonwood tree; copper nail and washer	Feet 930.26
T. 66 N., R. 24 W., quarter cor. between secs. 18 and 19, 100 ft. NE. of dwelling of Charles Rank, 35 ft. S. of rd., in concrete post; standard tablet stamped "3 C C 1937"	1,007.856
T. 66 N., R. 25 W., E. cor. secs. 13 and 24, 15 ft. N. and 12 ft. W. from T-rd. W., on N. head wall of concrete culvert; chiseled square	976.38
T. 66 N., R. 25 W., on line between secs. 14 and 23, 400 ft. W. of T-rd. S., 400 ft. E. of T-rd. N., on S. head wall of concrete culvert; chiseled square	981.48

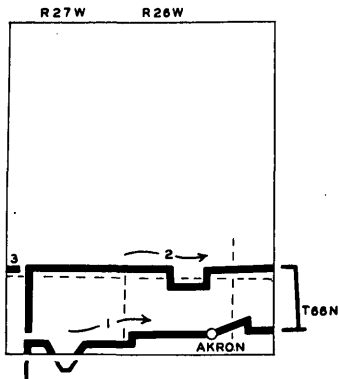
5. FROM EAST BORDER OF QUADRANGLE WEST TO LINEVILLE
(Continued from Allerton quadrangle; see line 3.)

Lineville, 0.9 mi. E. of, in NW 1/4 sec. 33, T. 67 N., R. 23 W., 0.1 mi. E. of small steel bridge, 18 ft. N. of rd., in root on N. side of 32-in. white-oak tree; copper nail and washer	1,067.60
T-rd. N., 36 ft. N. and 21 ft. E. from, at small dwelling, on S. end of concrete step; chiseled square	1,079.67

For an additional level line along Chicago, Rock Island & Pacific Ry., refer to United States Coast and Geodetic Survey second-order line, Chariton, Iowa to Trenton, Mo.

LAMONI QUADRANGLE*
(Latitude 40°30'-40°45'; longitude 93°45'-94°00')

Harrison and Mercer Counties



1. EAST ALONG SOUTH BORDER OF QUADRANGLE (by F. C. Lentz in 1936)
(Continued from Blythedale quadrangle; see line 4.)

T. 66 N., R. 27 W., quarter cor. between secs. 19 and 30, 32 ft. S. and 36 ft. E. from crossroads, in NW. corner of yard of Banner School (schoolhouse destroyed), in concrete post; standard tablet stamped "Prim Trav Sta No 67 J S 1923 Mo"	1,099.203
Reference mark, 12 ft. NW. of tablet, in root on W. side of 12-in. oak tree; copper nail and washer	1,098.56
T. 66 N., R. 27 W., cor. secs. 19, 20, 29, and 30, 87 ft. S. and 48 ft. E. from rd. corner W.-S., in root on W. side of 24-in. elm tree; copper nail and washer	1,088.72

(For balance in Blythedale quadrangle, see line 6.)

T. 66 N., R. 27 W., E. sixteenth cor. between secs. 22 and 27, 9 ft. S. of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 68 J S 1923 Mo"	1,064.497
Small concrete bridge over creek, on SE. corner of wing wall; chiseled square	992.62
T. 66 N., R. 27 W., S. sixteenth cor. sec. 23, 15 ft. S. and 45 ft. E. from T-rd. N., on top of SW. wing wall of bridge; chiseled square	1,000.62
U.S.C. & G.S. standard disk stamped "J 83 1935"	1,092.147
T. 66 N., R. 27 W., S. sixteenth cor. sec. 24, 35 ft. S. and 25 ft. E. from T-rd. S., in root of 12-in. maple tree; copper nail and washer	1,054.27
T. 66 N., R. 26 and 27 W., on line between secs. 19 and 24, 50 ft. N. of rd., 50 ft. W. of range line, in root on E. side of 14-in. thorn tree; copper nail and washer	1,006.41

*The greater part of this quadrangle lies in Iowa.

	<u>Feet</u>
T. 66 N., R. 26 W., 720 ft. W. of S. sixteenth cor. between secs. 19 and 20, 80 (? 62) ft. NE. of NE. corner of porch to dwelling of E. T. Gusewille, 20 ft. S. of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 69 J S 1923 Mo"	1,043.568
T. 66 N., R. 26 W., 0.2 mi. S. of cor. secs. 17, 18, 19, and 20, at bottom of drain, 15 ft. W. of rd., in head wall of concrete culvert; chiseled square	976.42
Rd. at bottom of drain, 25 ft. S. of. in root on N. side of 38-in. poplar tree; bent nail	953.52
T. 66 N., R. 26 W., quarter cor. between secs. 17 and 20, 200 ft. W. of small bridge, 25 ft. N. of rd., 15 ft. W. of well, in root on E. side of 30-in. maple tree; copper nail and washer	901.10
T. 66 N., R. 26 W., cor. secs. 16, 17, 20, and 21, 20 ft. N. of rd., in root on S. side of 24-in. black-oak tree; copper nail and washer	881.89
Small steel bridge, on top of NW. steel beam; painted square	879.38
T. 66 N., R. 26 W., on line between secs. 16 and 21, at top of hill, 20 ft. N. of rd., in root on S. side of 20-in. locust tree; copper nail and washer	958.04
Akron, S. limits of, in SE 1/4 sec. 15, T. 66 N., R. 26 W., 390 ft. N. of T-rd. W., in concrete walk to door of Methodist Church; standard tablet stamped "Prim Trav Sta No 70 J S 1923 Mo"	873.783
Reference mark, 190 ft. S. of tablet, in root on E. side of 16-in. maple tree; copper nail and washer	865.54
T. 66 N., R. 26 W., on line between secs. 14 and 23, 50 ft. W. of Thompson River, in root of triple 8-in. elm tree; copper nail and washer	857.21
T. 66 N., R. 26 W., in NE 1/4 SE 1/4 sec. 14, 500 ft. N. and 70 ft. W. from T-rd. E., in root of 12-in. elm tree; copper nail and washer	859.59
Rd. at foot of hill, 30 ft. E. of, in root on S. side of 40-in. locust tree; copper nail	891.86
T. 66 N., R. 26 W., E. sixteenth cor. between secs. 13 and 24, 60 ft. S. and 20 ft. E. from T-rd. E., 75 ft. W. of dwelling of John S. George, in concrete post; standard tablet stamped "Prim Trav Sta No 71 J S 1923 Mo"	953.462
Reference mark, 60 ft. E. of tablet, in root on W. side of 48-in. maple tree; copper nail and washer	953.33
T. 66 N., R. 25 W., on line between secs. 18 and 19, 120 ft. S. and 50 ft. E. from bridge over Coal Creek, in root on SW. side of 38-in. elm tree; copper nail and washer	904.18
T. 66 N., R. 25 W., cor. secs. 17, 18, 19, and 20, 50 ft. S. and 25 ft. E. from T-rd. S., in root of 8-in. elm tree; copper nail and washer	1,014.14

(Continued in Lineville quadrangle; see line 1.)

2. FROM SOUTHWEST CORNER OF QUADRANGLE NORTH TO IOWA-MISSOURI STATE LINE, THENCE EAST TO EAST BORDER (by F. C. Lentz in 1936-37)

T. 66 N., R. 27 W., quarter cor. between secs. 18 and 19, 30 ft. N. and 10 ft. E. from crossroads, 30 ft. N. and 120 ft. W. from U.S. Highway 69 at cross rd., on head wall of concrete culvert; chiseled square	1,093.18
T. 66 N., R. 27 W., quarter cor. between secs. 17 and 18, 20 ft. N. and 15 ft. W. from U.S. Highway 69 at cross rd., on concrete pipe culvert; chiseled square	1,081.71
T. 66 N., R. 27 W., cor. secs. 8, 9, 16, and 17, 30 ft. S. and 25 ft. E. from crossroads, 180 ft. E. of U.S. Highway 69 at cross rd., in concrete post; standard tablet stamped "853 1934"	1,110.436
T. 66 N., R. 27 W., cor. secs. 4, 5, 8, and 9, 20 ft. S. and 20 ft. E. from crossroads, on head wall of concrete culvert; chiseled square	1,097.77
Tps. 66 and 67 N., R. 27 W., approximate cor. secs. 4, 5, 32, and 33, 36 ft. S. and 34 ft. E. from U.S. Highway 69 at cross rd., 125 ft. S. of dwelling, in concrete post; standard tablet stamped "854 GWA 1934"	1,115.390
Reference mark, 50 ft. N. of tablet, on head wall of concrete culvert; chiseled square	1,116.65
Tps. 66 and 67 N., R. 27 W., approximate quarter cor. between secs. 4 and 33, at bottom of drain, at NE. corner of small bridge, in root of 10-in. elm tree; copper nail and washer	1,046.79
T. 67 N., R. 27 W., S. cor. secs. 33 and 34, 5 ft. N. and 30 ft. W. from T-rd. N., at N. end of small bridge, on concrete retaining wall; chiseled square	1,058.75
Tps. 66 and 67 N., R. 27 W., approximate quarter cor. between secs. 3 and 34, 50 ft. N. and 175 ft. E. from crossroads, in root of 12-in. locust tree; copper nail and washer	1,104.50
Small wooden bridge, at SE. corner of, in top of wooden beam; copper nail and washer	1,021.69
T. 67 N., R. 27 W., S. quarter cor. sec. 35, 25 ft. N. and 25 ft. E. from T-rd. N., in concrete post; standard tablet stamped "876 1934"	1,072.847
Reference mark, 25 ft. N. of rd., in hedge stump; copper nail and washer	1,093.42
U.S.O. & G.S. standard disk stamped "M 83 1935"	1,071.622
Tps. 66 and 67 N., Rs. 26 and 27 W., 0.2 mi. E. of T-rd. S. at cor. of, at NE. corner of small bridge, on top of concrete abutment; chiseled square	985.49
Tps. 66 and 67 N., R. 26 W., on line between secs. 6 and 31, at bottom of drain, 35 ft. NE. of small bridge, 30 ft. N. of rd., in root on W. side of 14-in. willow tree; copper nail and washer	962.86
Tps. 66 and 67 N., R. 26 W., 0.2 mi. E. of cor. secs. 5, 6, 31, and 32, 27 ft. N. and 18 ft. W. from T-rd. W., in concrete post; standard tablet stamped "875 1934"	1,029.086
T. 66 N., R. 26 W., near quarter cor. between secs. 4 and 5, 150 ft. W. of crossroads, at SW. corner of steel bridge over Indian Creek, on top of S. end of concrete abutment; chiseled square	916.70

T. 66 N., R. 26 W., near center sec. 4, 60 ft. N. and 650 ft. E. from crossroads, 125 ft. SW. of Catholic Church, in root on S. side of 14-in. maple tree; copper nail and washer	1,018.00
T. 66 N., R. 26 W., in SW 1/4 sec. 3, 60 ft. SE. of dwelling on property of Frank Jones, 30 ft. W. of rd., 40 ft. E. of well, 10 ft. S. of 14-in. black-walnut tree, in concrete post; standard tablet stamped "874 1934"	886.017
Tps. 66 and 67 N., R. 26 W., on line between secs. 2 and 35, about 25 ft. SE. of drainage channel, 15 ft. N. of rd., in root on S. side of 16-in. ash tree; copper nail and washer	868.59
T. 67 N., R. 26 W., near center of SW 1/4 sec. 36, 300 ft. N. and 40 ft. E. from rd. corner SW.-N., 150 ft. N. of dwelling, in root on SW. side of 30-in. white-oak tree; copper nail and washer	887.17
T. 67 N., R. 26 W., in NE 1/4 sec. 36, 55 ft. S. of dwelling of J. H. Robbins, 36 ft. N. of rd., in concrete post; standard tablet stamped "873 1934"	997.158
T. 67 N., R. 25 W., in SW 1/4 NW 1/4 sec. 32, 30 ft. N. and 40 ft. E. from T-rd. W., in root on E. side of 14-in. walnut tree; copper nail and washer	1,075.09

(Continued in Lineville quadrangle; see line 2.)

3. NEAR WEST BORDER OF QUADRANGLE, ABOUT 1 MILE SOUTH OF IOWA-MISSOURI STATE LINE (by F. C. Lentz in 1937)

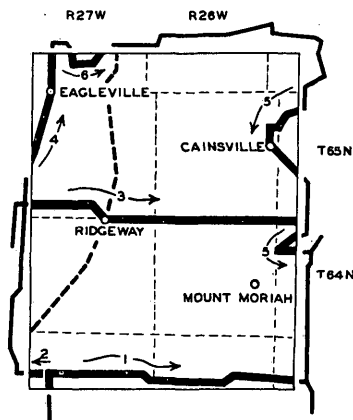
Tps. 66 and 67 N., R. 27 W., line between secs. 5 and 32, 0.6 mi. W. of U.S. Highway 69, 500 ft. W. of T-rd. N., 20 ft. N. of rd., on SE. corner of concrete drop inlet; chiseled square	1,071.90
Tps. 66 and 67 N., R. 27 W., approximate quarter cor. between secs. 6 and 31, 35 ft. S. of dwelling of J. E. Hart, 25 ft. N. of rd., in concrete hitching block; top of bolt	1,123.52

(Continued in Mount Ayr quadrangle; see line 3.)

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Darlington, Mo. to Osceola, Iowa.

BLYTHEDALE QUADRANGLE
(Latitude 40°15'-40°30'; longitude 93°45'-94°00')

Grundy, Harrison, and Mercer Counties



1. EAST ALONG SOUTH BORDER OF QUADRANGLE (by G. R. Hamlin in 1935-36)

(Continued from Gilman quadrangle; see line 4.)

Bethany, 3 mi. E., thence 1 mi. S. from, near cor. secs. 17, 18, 19, and 20, T. 63 N., R. 27 W., 35 ft. S. and 50 ft. W. from school, in root on N. side of 12-in. white-oak tree; copper nail and washer	932.61
Top of ridge, 200 ft. NW. of dwelling, in root on S. side of 14-in. bur-oak tree; copper nail and washer	986.29
Bethany, 3 mi. E. of, along State Highway 4, cor. secs. 7, 8, 17, and 18, T. 63 N., R. 27 W., 60 ft. N. and 15 ft. W. from junction of rd. S., in root on E. side of 36-in. elm tree; copper nail and washer	903.05
Bethany, 3 mi. E. of, along State Highway 4, cor. secs. 7, 8, 17, and 18, T. 63 N., R. 27 W., 10 ft. N. and 285 ft. E. from junction of rd. S., on top of SE. corner of S. head wall of culvert; chiseled square	912.79
Junction of rd. S., about 27 ft. S. and 15 ft. W. from, on SE. corner of S. head wall of concrete culvert; chiseled square	987.58

	Feet
T. 63 N., R. 27 W., near cor. secs. 8, 9, 16, and 17, about 20 ft. S. and 15 ft. W. from State Highway 4 at N.-S. fences, on top of SE. corner of S. head wall of concrete culvert; chiseled square	987.31
Junction of County Route K, about 50 ft. N. and 15 ft. E. from, at S. side of telephone pole; surface of ground	1,025.0
Junction of rd. N. to farm, about 20 ft. S. and 55 ft. W. from, on top of SE. corner of S. head wall of concrete culvert; chiseled square	989.56
T. 63 N., R. 27 W., 0.2 mi. E. of cor. secs. 9, 10, 15, and 16, 36 ft. S. and 27 ft. W. from State Highway 4 at rd. S., in concrete post; standard tablet stamped "860 1934"	1,006.310
Concrete bridge, on S. end of E. abutment; chiseled square	965.13
T. 63 N., R. 27 W., cor. secs. 10, 11, 14, and 15, about 30 ft. SE., thence 15 ft. E. from State Highway 4 at cross rd., on top of SE. corner of E. head wall of concrete culvert; chiseled square	997.44
T-fence N., at corner post; surface of ground	1,010.2
T. 63 N., R. 27 W., cor. secs. 11, 12, 13, and 14, about 20 ft. N. and 20 ft. E. from State Highway 4 at rd. N., on top of NE. corner of N. head wall of concrete culvert; chiseled square	991.47
Junction of rd. S., about 15 ft. S. and 20 ft. E. from, on top of NW. corner of E. head wall of concrete culvert; chiseled square	980.08
T. 63 N., R. 27 W., center sec. 13, 25 ft. W. of T-rd. E., in root on NE. side of 18-in. hedge tree; copper nail and washer	990.51
T. 63 N., R. 26 W., W. quarter cor. sec. 18, 30 ft. N. and 23 ft. E. from T-rd. E., in concrete post; standard tablet stamped "861 1934"	992.302
Wooden bridge over drain, about 18 ft. N. and 15 ft. W. from, in root on NW. side of 24-in. elm tree; crossed nails	911.72
T. 63 N., R. 26 W., quarter cor. between secs. 17 and 18, about 110 ft. S. and 15 ft. E. from T-rd. N. and lane S., in root on SW. side of 16-in. elm tree; copper nail and washer	933.53
T-fence N., about 5 ft. E. of corner fence post, in hedge-post brace; copper nail and washer	962.78
T-fence S., 20 ft. N. and about 170 ft. E. from, on top of NW. corner of SE. wing wall of concrete culvert; chiseled square	899.33
T. 63 N., R. 26 W., quarter cor. between secs. 16 and 17, 30 ft. N. and 25 ft. W. from T-rd. N., in root on S. side of 14-in. pine tree; copper nail and washer	963.45
T-rd. S., at SE. corner of, at N. side of corner post; surface of ground	947.0
T-fence S., at N. side of corner post; surface of ground	954.3
Rd. at farm entrance S., about 25 ft. E. of, on E. end of S. head wall of concrete culvert; chiseled square	885.79
T. 63 N., R. 26 W., quarter cor. between secs. 15 and 16, 24 ft. N. and 24 ft. W. from T-rd. N., on property of Frank Neff, 10 ft. NE. of 16-in. water-oak tree, in concrete post; standard tablet stamped "862 1934"	869.258
Farm entrance S., about 150 ft. E. of, at telephone pole; surface of ground	937.6
Rd. at N.-S. fences, at telephone pole; surface of ground	947.2
T-fence S., about 45 ft. N. and 6 ft. W. from, on W. end of N. head wall of concrete culvert; chiseled square	882.21
T. 63 N., R. 26 W., quarter cor. between secs. 14 and 15, 15 ft. S. and 80 ft. W. from crossroads, in root on NE. side of 30-in. elm tree; copper nail and washer	862.81
T. 63 N., R. 26 W., cor. secs. 10, 11, 14, and 15, 20 ft. N. and 10 ft. W. from T-rd. E., on S. end of W. head wall of concrete culvert; chiseled square	882.31
Quarter cor. between secs. 11 and 14, about 175 ft. E. of, in root on S. side of 36-in. elm tree; copper nail and washer	886.78
Wooden bridge, 35 ft. S. and about 35 ft. E. from, in root on SE. side of 12-in. elm tree; crossed nails	827.26
T. 63 N., R. 26 W., cor. secs. 11, 12, 13, and 14, 36 ft. S. and 18 ft. W. from crossroads, in concrete post; standard tablet stamped "863 1934"	855.704
T-fence S., 25 ft. N. and about 30 ft. E. from, in root on S. side of 6-in. elm tree; copper nail and washer	787.25
Thompson River drainage channel; surface of water at 4:20 p.m. Dec. 13, 1935	773.1
T. 63 N., R. 26 W., near center of SE 1/4 sec. 12, at steel girder bridge over Thompson River drainage channel, on top of NE. pier, in headplate; top of bolt	792.36
T-rd. S., about 70 ft. N. and 15 ft. W. from, in root on S. side of twin white-oak tree; crossed nails	790.51

2. IN SOUTHWEST CORNER OF QUADRANGLE (by F. C. Lentz in 1936)

Bethany, 3 mi. E. of, along State Highway 4, in NE 1/4 sec. 18, T. 63 N., R. 27 W., 40 ft. N. of dwelling of W. H. Rice, 42 ft. S. of highway, in concrete post; standard tablet stamped "859 1934"	921.183
Bethany, 2.6 mi. E. of, along State Highway 4, 30 ft. S. and 20 ft. W. from junction of rd. S., on head wall of concrete culvert; chiseled square	960.51

(Continued in Bethany quadrangle; see line 3.)

3. EAST THROUGH MIDDLE OF QUADRANGLE

(Continued from Bethany quadrangle; see line 4.)

T. 65 N., R. 27 W., W. quarter cor. sec. 31, 20 ft. N. and 20 ft. W. from T-rd. N., in root on S. side of 14-in. hedge tree; copper nail and washer	993.01
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T. 65 N., R. 27 W., quarter cor. between secs. 31 and 32, 1,000 ft. W. of bridge over East Fork of Big Creek, 200 ft. SE. of farmhouse, 20 ft. N. of rd., in root on NE. side of 14-in. white-oak tree; copper nail and washer	<u>Feet</u> 933.65
Ridgeway, 0.5 mi. N., thence 1.3 mi. W. from, in NW 1/4 SE 1/4 sec. 32, T. 65 N., R. 27 W., 32 ft. S. and 29 ft. E. from T-rd. S., in concrete post; standard tablet stamped "896 1934"	976.963
Ridgeway, 0.5 mi. N., thence 0.8 mi. W. from, 20 ft. N. and 15 ft. W. from T-rd. N., at SE. corner of cemetery, on concrete base of corner post; chiseled square	1,034.26
U.S.C. & G.S. standard disk stamped "D 83 1935"	1,057.183
Ridgeway, 1 mi. E. of, N. cor. secs. 2 and 3, T. 64 N., R. 27 W., 40 ft. S. and 25 ft. W. from T-rd. S., in root on N. side of 38-in. maple tree; copper nail and washer	980.17
Ridgeway, 1.4 mi. E. of, near N. quarter cor. sec. 2, T. 64 N., R. 27 W., 50 ft. N. of farmhouse on property of Harlan Johnson, 30 ft. S. of rd., in concrete post; standard tablet stamped "897 GWA 1934"	1,003.339
Ridgeway, 2 mi. E. of, N. cor. secs. 1 and 2, T. 64 N., R. 27 W., 10 ft. N. and 80 ft. E. from T-rd. S., 10 ft. N. and 30 ft. E. from T-rd. N., on top of N. end of iron pipe culvert; painted square	1,005.27
Ridgeway, 2.5 mi. E. of, in NW 1/4 NE 1/4 sec. 1, T. 64 N., R. 27 W., 250 ft. E. of T-rd. N., 30 ft. W. of entrance to quarry, on SE. wing wall of culvert; chiseled square	885.55
Ridgeway, 3 mi. E. of, near N. cor. secs. 1 and 6, T. 64 N., Rs. 26 and 27 W., at NE. corner of steel bridge over Panther Creek, on NW. corner of concrete base of NE. pier; chiseled square	870.60
Ridgeway, 3.8 mi. E. of, 0.2 mi. W. of S. cor. secs. 31 and 32, T. 65 N., R. 26 W., 15 ft. N. and 20 ft. W. from T-rd. S., on top of N. end of iron pipe culvert; painted square	905.44
Ridgeway, 4 mi. E. of, S. cor. secs. 31 and 32, T. 65 N., R. 26 W., 20 ft. N. and 40 ft. W. from T-rd. N., 160 ft. SE. of farmhouse, on head wall of concrete culvert; chiseled square	929.33
Ridgeway, 4.5 mi. E. of, in SW 1/4 SW 1/4 sec. 32, T. 65 N., R. 26 W., 28 ft. N. and 275 ft. E. from T-rd. S., 54 ft. S. and 15 ft. E. from dwelling of Ella Bridges, in concrete post; standard tablet stamped "898 1934"	956.581
Steel bridge over creek, at NE. corner of, on concrete abutment; chiseled square	862.52
T. 64 N., R. 26 W., N. sixteenth cor. between secs. 4 and 5, 60 ft. N. and 35 ft. E. from T-rd. E., in root of 14-in. white-oak tree; copper nail and washer	920.98
T. 64 N., R. 26 W., N. sixteenth cor. between secs. 3 and 4, 20 ft. S. of rd., in root on NW. side of 14-in. locust stump; copper nail and washer	951.34
T. 64 N., R. 26 W., N. sixteenth cor. sec. 3, 25 ft. N. and 120 ft. E. from crossroads, in root on S. side of 38-in. maple tree; copper nail and washer	928.25
T. 64 N., R. 26 W., 0.2 mi. W. of N. cor. secs. 2 and 3, 100 ft. S. and 80 ft. W. from rd. corner S.-E., in root on N. side of 18-in. walnut tree; copper nail and washer	858.90
Mount Moriah, 3.5 mi. N. of, along County Route B, S. quarter cor. sec. 35, T. 65 N., R. 26 W., 27 ft. N. and 75 ft. W. from highway produced at E.-W. cross rd., 4 ft. N. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "899 1934"	840.095
Tps. 64 and 65 N., R. 26 W., E. sixteenth cor. between secs. 1 and 36, 1.2 mi. E. of County Route B, at top of pier on S. side of steel bridge over Thompson River, on top of bolt; chiseled cross	824.18

(Continued in Princeton quadrangle; see line 2.)

4. NORTH ALONG NORTH PART OF WEST BORDER OF QUADRANGLE

(Continued from Bethany quadrangle; see line 7.)

T. 65 N., R. 28 W., about 460 ft. E. of center sec. 24, 15 ft. N. and 21 ft. E. from U.S. Highway 69 at cross rd., on E. end of concrete culvert; chiseled square	1,076.68
T. 65 N., R. 28 W., in SE 1/4 sec. 13, 30 ft. E. of U.S. Highway 69, 75 ft. SW. of corner of dwelling of W. E. Hendren, in concrete post; standard tablet stamped "851 1934"	1,074.279
T. 65 N., R. 28 W., E. sixteenth cor. between secs. 12 and 13, 11 ft. S. and 21 ft. E. from U.S. Highway 69 at rd. E., on top of concrete drop inlet; chiseled square	1,049.74
T. 65 N., R. 28 W., E. cor. secs. 1 and 12, 60 ft. S. and 70 ft. W. from U.S. Highway 69 at rd. W., in root on E. side of 18-in. pine tree; copper nail and washer	1,066.12
Eagleville, 0.6 mi. S. of, along U.S. Highway 69, in SE 1/4 sec. 1, T. 65 N., R. 28 W., at bottom of drain, 40 ft. NW. of highway, in root on E. side of 18-in. elm tree; copper nail and washer	1,036.53
Eagleville, 30 ft. N. and 24 ft. W. from U.S. Highway 69 at cross street one block N. of business district, in concrete post; standard tablet stamped "852 1934"	1,097.439
Eagleville, 1 mi. N. of, along U.S. Highway 69, in NE 1/4 sec. 31, T. 66 N., R. 27 W., 15 ft. S. and 17 ft. W. from E.-W. cross rd., on top of concrete culvert; chiseled square	1,081.36

(Continued in Lamoni quadrangle; see line 1.)

5. SOUTH ALONG EAST BORDER OF QUADRANGLE

(Continued from Princeton quadrangle; see line 1.)

	<u>Feet</u>
T. 65 N., R. 25 W., in SE 1/4 sec. 6, 300 ft. S. and 20 ft. E. from Cainsville rd. at junction of rd. S., in root on W. side of 36-in. elm tree; copper nail and washer	1,000.61
T. 65 N., R. 25 W., E. sixteenth cor. between secs. 6 and 7, 65 ft. S. and 30 ft. E. from T-rd. E., in root of 13-in. elm tree; copper nail and washer	999.19
T. 65 N., R. 25 W., in NW 1/4 sec. 7, in front of farmhouse of Frank Stoklasa, 15 ft. N. of rd., 5 ft. S. of iron fence, on SW. corner of bottom concrete step; chiseled square	965.22
T. 65 N., R. 26 W., center sec. 12, 45 ft. N. and 30 ft. W. from iron pin, 30 ft. N. and 30 ft. W. from T-rd. W., 40 ft. S. of Chicago, Burlington & Quincy R.R., in concrete post; standard tablet stamped "869 1934"	876.075
Cainsville, 15 ft. N. of NE. corner of Chicago, Burlington & Quincy R.R. sta., 24 ft. W. of track, 1 ft. above ground, in top of stub telegraph pole; copper nail and washer	845.67
Cainsville, 0.8 mi. S. of, on line between secs. 13 and 24, T. 65 N., R. 26 W., 25 ft. W. of rd. corner, in root on N. side of 30-in. maple tree; copper nail and washer	833.56
Cainsville, about 1 mi. S. of, NE. cor. sec. 24, T. 65 N., R. 26 W., 30 ft. S. and 25 ft. W. from T-rd. S., 120 ft. SE. of dwelling of Melvin Groves, in fence corner, in root on S. side of 14-in. maple tree; copper nail and washer	860.33
Steel bridge over Brush Creek, at SW. corner of, in plate on pier; top of bolt	846.12
Cainsville, 1.2 mi. S. of, in SE 1/4 sec. 19, T. 65 N., R. 25 W., 120 ft. N. of dwelling of A. J. Graham, in front yard, in concrete post; standard tablet stamped "868 1934"	975.299

(For balance in Princeton quadrangle, see line 1.)

T. 64 N., R. 25 W., E. sixteenth cor. between secs. 6 and 7, 150 ft. SE. of dwelling, 15 ft. W. of rd., in root of 14-in. elm tree; copper nail and washer	951.95
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6. EAST IN NORTHWEST QUARTER OF QUADRANGLE

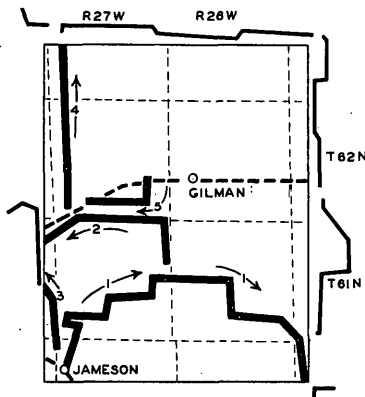
(Continued from Lamoni quadrangle; see line 1.)

T. 66 N., R. 27 W., N. sixteenth cor. between secs. 28 and 29, 20 ft. N. and 80 ft. W. from T-rd. W., in root on E. side of 12-in. white-oak tree; copper nail and washer	1,075.96
T. 66 N., R. 27 W., N. sixteenth cor. sec. 28, 135 ft. N. and 25 ft. W. from T-rd. E., in root on W. side of 12-in. elm tree; copper nail and washer	1,028.78
T. 66 N., R. 27 W., center of NW 1/4 sec. 27, 115 ft. N. and 30 ft. E. from rd. corner W.-N., in root on W. side of 48-in. maple tree; copper nail and washer	1,048.58

(Continued in Lamoni quadrangle; see line 1.)

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Darlington, Mo. to Osceola, Iowa.

GILMAN QUADRANGLE
(Latitude 40°00'-40°15'; longitude 93°45'-94°00')
Davies, Grundy, and Harrison Counties



1. FROM SOUTHWEST CORNER OF QUADRANGLE NORTHEAST TO POINT NEAR CENTER OF SOUTH HALF, THENCE EAST AND SOUTH TO SOUTHEAST CORNER (by R. B. Steele in 1922)

	Feet
Jameson, at Wabash Ry. sta., opposite operator's window; top of rail	805.9
Jameson, near NW. limits of, at SW. corner of street crossing highway,	
8 ft. E. of E. edge of N.-S. sidewalk, on cross walk; chiseled square	843.97
T. 60 N., Rs. 27 and 28 W., approximate cor. secs. 7, 12, 13, and 18,	
NE. of crossroads, 12 ft. E. of fence corner, 1 ft. S. of wire fence,	
1 in concrete; iron post stamped "24 R S 1922 Mo"	851.250
Reference mark, 420 ft. W. of post, on top of N. head wall of concrete	
culvert; chiseled square	844.18
Quarter cor. between secs. 7 and 18; top of cornerstone	825.20
Bridge over Big Muddy Creek; center of	792.4
T. 61 N., R. 27 W., S. quarter cor. sec. 32, SE. of T-rd. at jog in N.-S.	
rd., in root on E. side of 12-in. maple tree; copper nail	866.37
Center sec. 32, top of cornerstone	854.63
T. 61 N., R. 27 W., W. sixteenth cor. sec. 32, at rd. corner from E.-N.;	
top of S. end of iron pipe culvert	871.88
T. 61 N., R. 27 W., W. sixteenth cor. between secs. 29 and 32, 15 ft. N.	
and 35 ft. E. from T-rd. E., 1 ft. S. of wire fence, in concrete;	
iron post stamped "25 R S 1922 Mo"	870.488
Reference mark, 40 ft. S. of post, on concrete foundation of fence post;	
chiseled square	868.99
Top of hill, at junction of private rd. N.; surface of rd.	891.8
T. 61 N., R. 27 W., 900 ft. E. of cor. secs. 28, 29, 32, and 33, 100 ft.	
E. of bridge over Little Muddy Creek, N. of rd., in E.-W. fence line,	
in base of 18-in. elm tree; copper nail	829.59
T. 61 N., R. 27 W., quarter cor. between secs. 28 and 33, 120 ft. S. of	
T-rd. S., on top of W. head wall of concrete culvert; chiseled square	848.23
Top of ridge; surface of rd.	932.2
Concrete culvert; top at center of W. head wall	870.8
Top of hill; surface of rd.	934.3
T. 61 N., R. 27 W., cor. secs. 21, 22, 27, and 28, 75 ft. W. of T-rd. S.,	
S. of rd., in root on E. side of 14-in. elm tree; copper nail	903.10
T-rd. N.; surface of rd.	947.0
T. 61 N., R. 27 W., cor. secs. 22, 23, 26, and 27, 30 ft. N. and 30 ft. E.	
from T-rd. W., 1 ft. W. of wire fence, in concrete; iron post stamped	
"26 R S 1922 Mo"	931.984
Reference mark, 60 ft. S. 65° W. of post, on top of W. end of concrete	
culvert; chiseled square	932.04
Mason Creek, 100 ft. W. of, in root of walnut tree; copper nail	843.74
T. 61 N., R. 27 W., in NE 1/4 NE 1/4 sec. 26, 90 ft. N. and 70 ft. E.	
from T-rd. W., 30 ft. E. of entrance to farmhouse, in root on W. side	
of twin 8-in. maple tree; copper nail	923.51
T-rd.; top of W. end of concrete culvert	913.48
Rd. corner from W.-N.; surface of rd.	929.5
T. 61 N., Rs. 26 and 27 W., approximate cor. secs. 13, 18, 19, and 24,	
SE. of crossroads, in top of rock outcrop; standard tablet stamped	
"27 R S 1922 Mo"	892.782
Reference mark, 50 ft. W. of tablet, on N. end of concrete culvert;	
chiseled square	889.90
Rd. at fence N. at top of hill; surface of rd.	963.5
T. 61 N., R. 26 W., cor. secs. 17, 18, 19, and 20, NE. of crossroads,	
35 ft. E. of fence corner, in concrete; iron post stamped "28 R S 1922	
Mo"	954.241
Reference mark, 46 ft. S. 43° W. of post, on top of S. end of concrete	
culvert; chiseled square	955.97

	Feet
T. 61 N., R. 26 W., cor. secs. 16, 17, 20, and 21, at center of crossroads, on top of cornerstone; chiseled square	959.56
T. 61 N., R. 26 W., cor. secs. 15, 16, 21, and 22, SW. of T-rd. W., 5 ft. W. of fence corner, in concrete post; standard tablet (not stamped)	979.003
Reference mark, 0.2 mi. S. of tablet, on top of E. end of concrete culvert; chiseled square	976.40
Concrete culvert; top at center of W. end	975.93
T. 61 N., R. 26 W., 230 ft. N. of cor. secs. 21, 22, 27, and 28, E. of rd., in SW. corner of farmyard, in root on NW. side of 30-in. maple tree; copper nail	978.61
T. 61 N., R. 26 W., cor. secs. 27, 28, 33, and 34, E. of T-rd. N., 90 ft. N. of E-W. rd., in concrete; iron post stamped "30 R S 1922 Mo"	939.821
Reference mark, 150 ft. N. of post, in root on S. side of 16-in. maple tree; copper nail	937.33
T. 61 N., R. 26 W., cor. secs. 26, 27, 34, and 35, 110 ft. S. of crossroads, on top of W. head wall of concrete culvert; chiseled square	955.74
Concrete culvert; top at center of N. head wall	957.35
T-rd. S.; surface of rd.	959.2
T. 61 N., R. 26 W., about 0.2 mi. E. of cor. secs. 25, 26, 35, and 36, on top of N. head wall of concrete culvert; chiseled square	945.33
T. 61 N., R. 26 W., line between secs. 25 and 36, at T-rd. S., on top of N. head wall of concrete culvert; chiseled square	881.10
Top of hill; surface of rd.	913.6
Bridge over Hickory Creek; center of	858.8
T. 61 N., R. 26 W., E. sixteenth cor. sec. 36, W. of N.-S. rd., in line with S. fence line of rd. E., on top of W. end of concrete culvert; chiseled square	893.70
Antioch Church, opposite; surface of rd.	917.4
T. 61 N., R. 25 W., in E 1/2 sec. 31, 19 ft. S. and 30 ft. E. from T-rd. S., 8 ft. W. of fence corner, 1 ft. N. of fence, in concrete; iron post stamped "31 R S 1922 Mo"	893.450
Reference mark, 90 ft. N. 10° W. of post, on N. end of concrete culvert; chiseled square	893.48
T. 60 N., R. 25 W., near N. quarter cor. sec. 7, 120 ft. S. of junction of rd. E., E. of rd., at base of telephone pole, on top of 6- by 30-in. stone; chiseled mark	932.85
T. 60 N., R. 25 W., quarter cor. between secs. 7 and 18, 28 ft. N. and 37 ft. E. from crossroads, in concrete base of fence post; standard tablet stamped "32 R S 1922 Mo"	956.783
Reference mark, 40 ft. S. 86° E. of tablet, at church, on top of concrete step; chiseled square	958.43
T. 60 N., R. 25 W., quarter cor. between secs. 18 and 19, SW. of crossroads, on concrete base of corner fence post; chiseled square	976.37

2. FROM POINT NEAR CENTER OF SOUTH HALF OF QUADRANGLE, NORTH AND WEST TO POINT NEAR MIDDLE OF WEST BORDER

Small bridge; center of	894.3
T. 61 N., Rs. 26 and 27 W., approximate cor. secs. 7, 12, 13, and 18, NW. of crossroads, on top of N. head wall of concrete culvert; chiseled square	933.82
T. 61 N., Rs. 26 and 27 W., approximate cor. secs. 1, 6, 7, and 12, NE. of crossroads, on top of E. end of concrete culvert; chiseled square	983.16
Culvert, at center of; surface of rd.	970.2
Tps. 61 and 62 N., Rs. 26 and 27 W., cor. of NW. of crossroads, 10 ft. W. of fence corner, in concrete post; standard tablet stamped "33 R S 1922 Mo"	984.657
Reference mark, 20 ft. N. 84° E. of tablet, on top of W. end of concrete culvert; chiseled square	984.12
T. 62 N., R. 27 W., S. quarter cor. sec. 35, in NW. corner of T-rd., 6 ft. E. of front door of Land School, on concrete porch; chiseled square	951.93
Bridge over Big Muddy Creek; center of	904.3
Tps. 61 and 62 N., R. 27 W., approximate cor. secs. 2, 3, 34, and 35, 50 ft. W. of T-rd. E., 1 ft. E. of fence, in concrete post; standard tablet stamped "34 R S 1922 Mo"	914.238
Reference mark, 40 ft. E. of tablet, on top of N. end of concrete culvert; chiseled square	913.82
T. 61 N., R. 27 W., 700 ft. S. of N. quarter cor. sec. 3, NE. of T-rd. E., 1 ft. NW. of fence corner; top of iron pipe	970.34
Junction of private rd. N. in line with fence N.; surface of rd.	965.3
Tps. 61 and 62 N., R. 27 W., approximate cor. secs. 4, 5, 32, and 33, NE. of crossroads, 20 ft. E. of fence corner; iron post stamped "35 R S 1922 Mo"	911.031
Reference mark, 50 ft. W. of post, in root of 18-in. oak tree; copper nail	906.98
Junction of private rd. N.; W. end of culvert	955.0
Small bridge; center of	895.5
Tps. 61 and 62 N., R. 27 W., approximate cor. secs. 5, 6, 31, and 32, NE. of crossroads, on top of SE. wing of concrete culvert; chiseled square	907.61
Quincy, Omaha & Kansas City R.R. at private rd. crossing; top of N. rail	955.0
T. 61 N., R. 27 W., in N 1/2 sec. 6, SW. of Quincy, Omaha & Kansas City R.R. at rd. crossing, 20 ft. NW. of track, in root on N. side of 18-in. maple tree; copper nail	954.41
Coffey, 0.5 mi. N., thence 0.8 mi. E. from, in E 1/2 sec. 1, T. 61 N., R. 28 W., 15 ft. W. of Quincy, Omaha & Kansas City R.R. right-of-way fence, S. of angle in rd. in concrete post; standard tablet stamped "36 R S 1922 Mo"	942.711

3. FROM POINT NEAR JAMESON NORTH AND WEST TO MIDDLE OF SOUTH HALF OF WEST BORDER OF QUADRANGLE

	Feet
T. 61 N., R. 28 W., in NE 1/4 SE 1/4 sec. 25, SE. of rd. forks, at front gate to farmhouse, on top of concrete hitching block; chiseled square	879.51
T. 61 N., R. 28 W., in SW 1/4 NE 1/4 sec. 25, at bridge over Hickory Creek, in top of E. end of S. pier; standard tablet(not stamped)	797.943
Reference mark, 22 ft. E. of tablet, on SE. corner of pier; chiseled square	797.96
T-rd., on concrete culvert; top at center of S. head wall	821.65

(Continued in Pattonsburg quadrangle; see line 1.)

4. FROM POINT NEAR MIDDLE OF WEST BORDER OF QUADRANGLE NORTH TO NORTHWEST CORNER (by G. R. Hamlin in 1936)

U.S.C. & G.S. standard disk stamped "L 18 1933"	957.905
Reference mark, 425 ft. NW. of disk, on E. side of white dwelling, on SE. corner of concrete doorstep; chiseled square	977.61
Dwelling, 125 ft. NW. of, S. of rd., in root on W. side of 15-in. elm tree; copper nail and washer	980.00
Coffey, 4 mi. NE. of, near cor. secs. 29, 30, 31, and 32, T. 62 N., R. 27 W., 50 ft. N. of Daviess-Harrison county line, N. of rd., in root on S. side of 30-in. maple tree; copper nail and washer	969.30
Fence corner, 10 ft. NE. of, in root on S. side of 12-in. hickory tree; copper nail and washer	934.55
Coffey, 3.5 mi. NE. of, near quarter cor. between secs. 30 and 31, T. 62 N., R. 27 W., on E. end of S. head wall of concrete culvert; chiseled square	923.83
Fence corner, 130 ft. NE. of, in root on S. side of 36-in. cottonwood tree; copper nail and washer	891.42
T. 62 N., Rs. 27 and 28 W., approximate cor. secs. 19, 24, 25, and 30, at jog in rd., 40 ft. N. of rd. E., 7 ft. N. of rd. W. produced, 7 ft. E. of fence, in concrete post; standard tablet stamped "882 1934"	938.011
Reference mark, 150 ft. NW. of tablet, in root on E. side of 10-in. white-oak tree; copper nail and washer	927.34
Fence corner, 75 ft. N. of, in root on W. side of 14-in. elm tree; copper nail and washer	935.00
T. 62 N., R. 27 W., near center of NE 1/4 sec. 19, on top of ridge, 175 ft. SW. of dwelling, in root on E. side of 18-in. elm tree; copper nail and washer	958.90
Crossroads, NE. of, in root on W. side of 30-in. maple tree; copper nail and washer	969.61
T. 62 N., R. 27 W., near quarter cor. between secs. 17 and 18, on SW. wing wall of bridge; chiseled square	885.41
Gilman, 7.5 mi. NW. of, 85 ft. S. of cor. secs. 7, 8, 17, and 18, T. 62 N., R. 27 W., 50 ft. W. of dwelling of T. B. Higgins, 30 ft. E. of rd., 5 ft. S. and 15 ft. E. from mail box, in concrete post; standard tablet stamped "891 1934"	950.469
Reference mark, 75 ft. NE. of tablet, in root on W. side of 24-in. elm tree; copper nail and washer	951.53
Fence corner, 90 ft. N. of, on top of NE. wing wall of culvert; chiseled square	905.42
Bridge, in SW. corner of; copper nail and washer	898.76
Blue Ridge, 2 mi. W. of, cor. secs. 5, 6, 7, and 8, T. 62 N., R. 27 W., 75 ft. NE. of crossroads, in root on E. side of 14-in. bur-oak tree; copper nail and washer	936.01
Top of ridge, at farm entrance, E. of rd., in gatepost brace; copper nail and washer	971.42
Top of ridge, 25 ft. S. of entrance to farmhouse, in root on E. side of 10-in. ash tree; copper nail and washer	985.31
Blue Ridge, 2 mi. W., thence 1 mi. N. from, approximate cor. secs. 5, 6, 31, and 32, Tps. 62 and 63 N., R. 27 W., 180 ft. SW. of crossroads, in root on N. side of 30-in. cottonwood tree; copper nail and washer	959.19
Top of ridge, 100 ft. W. of dwelling, in root on E. side of 8-in. hickory tree; copper nail and washer	960.15
Blue Ridge, 2 mi. W., thence 2 mi. N. from, cor. secs. 29, 30, 31, and 32, T. 63 N., R. 27 W., 30 ft. S. and 20 ft. E. from stone at crossroads, 90 ft. N. of school, in concrete post; standard tablet stamped "890 1934"	974.343
Reference mark, 100 ft. N. and 100 ft. E. from tablet, in root on N. side of 8-in. hickory tree; copper nail and washer	966.25
Hedge fence W. of rd., in root on E. side of 30-in. maple tree; copper nail and washer	989.61
Bethany, 3 mi. E., thence 2 mi. S. from, cor. secs. 19, 20, 29, and 30, T. 63 N., R. 27 W., 25 ft. S. and 25 ft. E. from crossroads, in fence line, in root on W. side of 24-in. hedge tree; copper nail and washer	999.97
Dwelling E. of rd., in front of, on NW. corner of concrete well top; chiseled square	990.54

(Continued in Blythedale quadrangle; see line 1.)

5. FROM POINT ABOUT 2.2 MILES WEST OF GILMAN SOUTH, WEST, AND NORTH TO POINT ABOUT 2.5 MILES EAST OF MIDDLE OF WEST BORDER OF QUADRANGLE

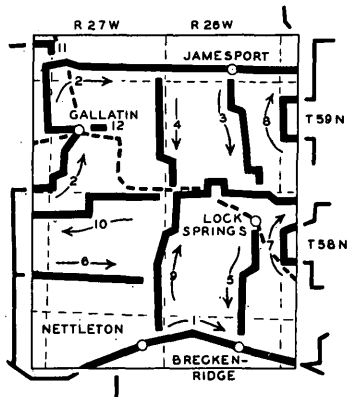
U.S.C. & G.S. standard disk stamped "K 18 1933"	970.953
Gilman, 2.5 mi. W. of, 234 ft. S. of quarter cor. between secs. 26 and 27, T. 62 N., R. 27 W., E. of rd., in root on S. side of 30-in. elm tree; copper nail and washer	949.11
T-rd. E., 30 ft. NW. of, in root on W. side of 30-in. cottonwood tree; copper nail and washer	974.20

T. 62 N., R. 27 W., 250 ft. SE. of quarter cor. between secs. 34 and 35, in root on N. side of 8-in. willow tree; copper nail and washer	Feet 943.78
Tps. 61 and 62 N., R. 27 W., approximate cor. secs. 2, 3, 34, and 35, 50 ft. W. of T-rd. E., 1 ft. E. of fence, in concrete post; standard tablet stamped "34 R S 1922 Mo"	914.238
Reference mark, 40 ft. N. and 70 ft. E. from tablet, on top of N. head wall of culvert; chiseled square	913.66
S. quarter cor. sec. 34, 780 ft. W. of, S. of rd., in root on S. side of 30-in. elm tree; copper nail and washer	954.33
Tps. 61 and 62 N., R. 27 W., 255 ft. W. of approximate cor. secs. 3, 4, 33, and 34, 75 ft. N. of barn, S. of rd., in root on N. side of 30-in. elm tree; copper nail and washer	949.58
W. sixteenth cor. on S. line sec. 33, 247 ft. E. of, in root on S. side of 15-in. elm tree; copper nail and washer	882.64
Tps. 61 and 62 N., R. 27 W., approximate cor. secs. 4, 5, 32, and 33, NE. of crossroads, 20 ft. E. of fence corner; iron post stamped "35 R S 1922 Mo"	911.031
Reference mark, 150 ft. NE. of post, in root on N. side of 15-in. white-oak tree; copper nail and washer	901.38
T. 62 N., R. 27 W., 25 ft. NW. of cor. secs. 28, 29, 32, and 33, on Daviess-Harrison county line, in root on S. side of 12-in. elm tree; copper nail and washer	907.70
Gilman, 4.8 mi. W. of, along Quincy, Omaha & Kansas City R.R., about 10 rails NE. of Daviess-Harrison county line, 50 ft. NE. of rd. crossing, 25 ft. N. of tracks, 32 ft. S. and 5 ft. E. from fence corner, at milepole 156.75, in concrete post; U.S.C. & G.S. standard disk stamped "L 18 1933"	957.905
Reference mark, 25 ft. NW. of tablet, on E. head wall of concrete culvert; chiseled square	959.23

For additional level lines along Quincy, Omaha & Kansas City R.R. and Wabash Ry., refer to United States Coast and Geodetic Survey first-order line, Milan, Mo. to Hamburg, Iowa; and second-order line, Pattonsburg to Gallatin.

GALLATIN QUADRANGLE
(Latitude 39°45'-40°00'; longitude 93°45'-94°00')

Caldwell, Daviess, Grundy, and Livingston Counties



1. EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD, NEAR SOUTH BORDER OF QUADRANGLE (by S. R. Archer in 1920)
(Continued from Braymer quadrangle; see line 1.)

T. 57 N., R. 27 W., quarter cor. between secs. 15 and 16, SW. of Chicago, Burlington & Quincy R.R. at rd. crossing, on top of W. end of tile pipe culvert; chiseled square	964.36
T. 57 N., R. 27 W., near quarter cor. between secs. 15 and 16, 275 ft. E. of Chicago, Burlington & Quincy R.R. at rd. crossing, S. of track, on top of S. end of concrete pipe; chiseled square	958.99
Nettleton, 0.2 mi. W. of Chicago, Burlington & Quincy R.R. sta., W. sixteenth cor. between secs. 11 and 14, T. 57 N., R. 27 W., 170 ft. W. of rd. crossing, N. of track, S. of rd. W., at produced corner of right-of-way fences; iron post stamped "1920 Mo 962"	961.287
Nettleton, at Chicago, Burlington & Quincy R.R. sta., E. of operator's window, on top of N. side of concrete base of semaphore; chiseled square	961.38
T. 57 N., R. 27 W., in SE 1/4 SE 1/4 sec. 11, 220 ft. W. of Chicago, Burlington & Quincy R.R. at rd. crossing, on top of N. end of concrete overflow drain pipe; chiseled square	932.92
T. 57 N., R. 27 W., E. cor. secs. 12 and 13, 22 ft. N. and 22 ft. W. from T-rd. W., 1 ft. S. of fence corner; iron post stamped "Prim Trav Sta No 22 1913 Mo 921"	920.140

	<u>Feet</u>
T. 57 N., R. 26 W., 80 ft. N. of S. sixteenth cor. between secs. 7 and 8, 460 ft. S. of Chicago, Burlington & Quincy R.R. at rd. crossing, in fence line E. of rd., in root on N. side of 18-in. elm tree; copper nail and washer	915.29
T. 57 N., R. 26 W., near cor. secs. 4, 5, 8, and 9, at NE. corner of Chicago, Burlington & Quincy R.R. at rd. crossing, 4 ft. S. of fence corner; iron post stamped "1920 Mo 851"	850.102
Breckenridge, about 0.5 mi. W. of NW. limits of, in SE 1/4 NE 1/4 sec. 9, T. 57 N., R. 26 W., SE. of Chicago, Burlington & Quincy R.R. at rd. crossing, on top of NW. corner of concrete base of electric warning bell; chiseled square	903.61
Breckenridge, in front of Chicago, Burlington & Quincy R.R. sta.; top of rail	927.9
Breckenridge, at NW. corner of public park, 12 ft. E. of drain crossing, 3 ft. N. of first tree from W. end of row of maple trees, 1 ft. S. of sidewalk; iron post stamped "1920 Mo 928"	927.083
Breckenridge, at E. limits of, 250 ft. W. of line between secs. 10 and 11, T. 57 N., R. 26 W., 30 ft. E. of turn in U.S. Highway 36 from S.-E., S. of highway, in NW. corner of yard, in root on W. side of 24-in. maple tree; copper nail and washer	912.13
T. 57 N., R. 26 W., in SW 1/4 SW 1/4 sec. 12, at SE. corner of U.S. Highway 36 at rd. S., 3 in. below surface of ground, in root on W. side of 12-in. ash tree; spike	887.47
T. 57 N., R. 26 W., about 0.1 mi. N. of quarter cor. between secs. 12 and 13, NW. of Chicago, Burlington & Quincy R.R. at rd. crossing, on top of W. end of tile pipe culvert; chiseled square	900.28
T. 57 N., R. 25 and 26 W., line between secs. 12 and 18 (jog in range line), NW. of Chicago, Burlington & Quincy R.R. at rd. crossing on Caldwell-Livingston county line, 1 ft. S. and 3 ft. W. from fence corner; iron post stamped "1920 Mo 898"	896.910

(Continued in Dawn quadrangle; see line 1.)

2. NORTH ALONG NORTH PART OF WEST BORDER OF QUADRANGLE, THENCE
EAST ALONG NORTH BORDER
(Continued from Winston quadrangle; see line 2.)

T. 59 N., R. 28 W., in SE 1/4 SW 1/4 sec. 36, 0.2 mi. N. of bridge over Honey Creek, at curve in rd. to E., on top of W. end of S. parapet wall of concrete bridge over fork of Honey Creek; chiseled square	773.60
T. 59 N., R. 28 W., 230 ft. W. of E. quarter cor. sec. 36, 25 ft. N. of rd., W. of rd. leading to barn, W. of gate, in root on S. side of 30-in. elm tree (W. one of two elms 20 ft. apart); copper nail and washer	809.61
T. 59 N., R. 27 W., E. sixteenth cor. sec. 31, 30 ft. SE. of T-rd. N., E. of gate to barn; iron post stamped "1920 Mo 823"	821.962
Reference mark, 35 ft. E. of T-rd. N., N. of rd., in root on NW. side of 12-in. oak tree; copper nail and washer	821.75
T. 59 N., R. 27 W., E. sixteenth cor. sec. 30, 35 ft. E. of rd., at NW. corner of yard of L. Place, in root on N. side of 24-in. oak tree; copper nail and washer	897.54
T. 59 N., R. 27 W., 0.1 mi. S. of E. sixteenth cor. between secs. 19 and 30, W. of rd., on top of N. end of N. wing wall of W. head wall of concrete culvert; chiseled square	849.19
Gallatin, in SW. part of, at NE. corner of Twenty-fourth and E Streets, 7 ft. W. of line of telephone poles, on N. edge of walk across E Street; chiseled square	937.26
Gallatin, in W. part of, at intersection of Twenty-second and E Streets; top of rock	918.39
Gallatin, at NW. corner of Twenty-first and J Streets, in SE. corner of schoolyard; iron post stamped "1920 Mo 898"	897.433
Reference mark, in SE. corner of schoolyard, on top of E. end of S. concrete retaining wall; chiseled square	896.81
Gallatin, 15 ft. E. of SW. corner of courthouse, 12 ft. W. of S. entrance, 3 ft. above ground, in face of 3-in. facing stone; standard tablet stamped "1920 Mo 932"	931.278
T. 59 N., R. 27 W., in SE 1/4 NE 1/4 sec. 18, at T-rd. S., N. of rd., in SE. corner of yard, in root on N. side of 10-in. maple tree; copper nail and washer	898.17
T. 59 N., R. 28 W., in SE 1/4 NE 1/4 sec. 13, on E. bank of creek, 50 ft. N. and 75 ft. E. from drain, 40 ft. N. of rd., in root on S. side of 24-in. locust tree; copper nail and washer	901.75
T. 59 N., R. 28 W., E. sixteenth cor. sec. 13, at NE. corner of T-rd. N., at base of corner fence post; top of rock	934.89
T. 59 N., R. 28 W., in NE 1/4 SE 1/4 sec. 12, 200 ft. S. and about 200 ft. E. from dwelling W. of rd., 65 ft. N. of curve in rd. to NW. at E.-W. fence line, in fence line E. of rd., in root on W. side of 36-in. oak tree; copper nail and washer	902.52
T. 59 N., R. 28 W., E. sixteenth cor. between secs. 1 and 12, at NW. corner of crossroads, on top of W. head wall of concrete culvert; chiseled square	883.30
T. 59 N., R. 28 W., E. sixteenth cor. sec. 1, at T-rd. S.; top of stone	891.26
T. 59 N., R. 28 W., E. quarter cor. sec. 1, 30 ft. NW. of T-rd. N., 20 ft. N. of fence corner; iron post stamped "1920 Mo 908"	907.276
Reference mark, 50 ft. NW. of T-rd. N., in root on N. side of 10-in. elm tree; copper nail and washer	906.28

	Feet
T. 60 N., R. 28 W., in SE 1/4 sec. 36, 950 ft. SE. of mouth of Larry Creek, on S. bank of Grand River, 400 ft. E. of old wagon ford, N. of abandoned rd., 6 in. under ground, in root on W. side of 24-in. cottonwood tree; copper nail and washer	733.12
T. 60 N., R. 28 W., in SE 1/4 sec. 36, 650 ft. below mouth of Larry Creek, 200 ft. below old wagon ford across Grand River, 25 ft. N. of river, W. of old rd. leading to ford, in trunk on NW. side of lone 30-in. cottonwood tree; copper nail and washer	741.66
T. 60 N., R. 27 W., quarter cor. between secs. 30 and 31, 40 ft. E. of rd. corner from W.-N., at fence S., S. of rd., in root on W. side of 42-in. walnut tree; copper nail and washer	874.51
T. 60 N., R. 27 W., in N 1/2 sec. 30, 35 ft. S. of junction of rd. SE., 15 ft. E. of N.-S. rd., 2 ft. W. of fence; iron post stamped "Prim Trav Sta No 8 1913 Mo 901"	900.516
Reference mark, at SW. corner of T-rd. S., at fence corner, in root on N. side of 4-in. elm tree; copper nail and washer	898.50
T. 60 N., R. 27 W., quarter cor. between secs. 29 and 30, 50 ft. N. and 115 ft. E. from T-rd. E., in yard of small brick dwelling, in root on S. side of 24-in. elm tree; copper nail and washer	841.77
T. 60 N., R. 27 W., near center of SE 1/4 sec. 29, about 75 ft. N. of T-rd. E., on top of W. head wall of concrete culvert; chiseled square	786.02
T. 60 N., R. 27 W., near center of SW 1/4 sec. 28, at rd. corner from W.-S., on top of SW. end of concrete culvert; chiseled square	765.15
T. 60 N., R. 27 W., in NE 1/4 NW 1/4 sec. 33, 40 ft. N. and 70 ft. W. from T-rd. W., in field, in root on E. side of 24-in. oak tree; copper nail and washer	779.93
T. 60 N., R. 27 W., about 0.1 mi. E. of quarter cor. between secs. 28 and 33, at NE. corner of T-rd. N., 3 ft. N. of corner fence post; iron post stamped "1920 Mo 762"	761.928
Reference mark, 25 ft. E. of T-rd. N., on top of E. end of S. head wall of concrete culvert; chiseled square	763.73
T. 60 N., R. 27 W., quarter cor. between secs. 27 and 34, 130 ft. W. of T-rd. N., S. of rd., on top of E. end of S. head wall of concrete culvert; chiseled square	786.26
T. 60 N., R. 27 W., W. sixteenth cor. between secs. 26 and 35, at SW. corner of crossroads, on top of N. end of W. head wall of concrete culvert; chiseled square	823.57
T. 60 N., R. 27 W., cor. secs. 25, 26, 35, and 36, at NW. corner of crossroads, on top of N. end of E. wing wall of N. head wall of concrete culvert; chiseled square	826.98
T. 60 N., R. 26 W., 5 ft. N. and 15 ft. W. from W. cor. secs. 30 and 31, W. of T-rd. S., 50 ft. S. of iron bridge, in line with rd. E., in fence corner; iron post stamped "Prim Trav Sta No 9 1913 Mo 780"	779.069
Reference mark, on top of N. end of E. concrete abutment of bridge; chiseled square	779.53
T. 60 N., R. 26 W., cor. secs. 29, 30, 31, and 32, 45 ft. S. of T-rd. S., in fence line W. of rd., in root on NW. side of 12-in. elm tree; copper nail and washer	865.94
T. 60 N., R. 26 W., W. sixteenth cor. between secs. 29 and 32, at NW. corner of T-rd. N., in root on SE. side of 30-in. oak tree; copper nail and washer	864.83
Jamesport, about 1.8 mi. W. of, cor. secs. 28, 29, 32, and 33, T. 60 N., R. 26 W., 30 ft. N. and 20 ft. E. from T-rd. N., 15 ft. N. of fence corner; iron post stamped "885"	884.260
Jamesport, about 1.2 mi. W. of, about 0.1 mi. N. of quarter cor. between secs. 28 and 33, T. 60 N., R. 26 W., at NE. corner of T-rd. E., in corner of field, in root on S. side of twin 48-in. elm tree; copper nail and washer	937.00
Jamesport, 60 ft. S. of NW. corner of yard of high school, in root on N. side of 24-in. maple tree; copper nail and washer	976.20
Jamesport, 8 ft. S. of E. entrance to Peoples Exchange Bank, 4 ft. N. of SE. corner of building, 4 ft. above sidewalk, at base of S. one of four columns, in face of water table; standard tablet stamped "1920 Mo 990"	989.983
Reference mark, 8 ft. N. of tablet, on top of N. end of top step; chiseled square	987.88
Jamesport, 1 mi. E. of, cor. secs. 25, 26, 35, and 36, T. 60 N., R. 26 W., 60 ft. W. of crossroads, in fence line N. of rd., in root on W. side of 6-in. box-elder tree (at W. end of row of trees); copper nail and washer	974.75
Jamesport, 2 mi. E. of, cor. secs. 25, 30, 31, and 36, T. 60 N., R. 25 and 26 W., 45 ft. W. of T-rd. S. on Daviess-Grundy county line, in fence line S. of rd., iron post stamped "1920 Mo 975"	974.168
3. FROM JAMESPORT SOUTH THROUGH NORTHEAST PART OF QUADRANGLE	
T. 59 N., R. 26 W., N. cor. secs. 2 and 3, at SW. corner of T-rd. S., inside of fence corner, in root on E. side of 24-in. box-elder tree; copper nail and washer	923.69
T. 59 N., R. 26 W., cor. secs. 2, 3, 10, and 11, at NW. corner of crossroads, 15 ft. W. of corner fence post, in fence line; iron post stamped "1920 Mo 939"	937.995
T. 59 N., R. 26 W., near center sec. 11, 50 ft. W. of jog in rd. to E., W. of rd. in front of dwelling, in root on NE. side of 24-in. maple tree; copper nail and washer	980.03
T. 59 N., R. 26 W., quarter cor. between secs. 11 and 14, 60 ft. S. and 35 ft. W. from T-rd. W., in front yard of dwelling, in root on E. side of 12-in. pine tree; copper nail and washer	962.64
T. 59 N., R. 26 W., in SW 1/4 SE 1/4 sec. 14, 90 ft. S. of dwelling E. of rd., 80 ft. N. of driveway to barn, 40 ft. E. of rd., in root on W. side of 24-in. oak tree; copper nail and washer	906.04
T. 59 N., R. 26 W., center sec. 23, at SW. corner of T-rd. W., 8 ft. S. of fence corner; iron post stamped "1920 Mo 914"	913.456

T. 59 N., R. 26 W., near N. sixteenth cor. sec. 26, 0.1 mi. S. of dwelling E. of rd., at top of hill, W. of rd., inside of fence, in root on E. side of 15-in. elm tree; copper nail and washer	<u>Feet</u> 888.42
T. 59 N., R. 26 W., in SE 1/4 SW 1/4 sec. 26, on top near S. end of W. head wall of concrete culvert; chiseled square	793.46
T. 59 N., R. 26 W., cor. secs. 25, 26, 35, and 36, at crossroads; top of cornerstone	769.60

4. SOUTH THROUGH CENTER OF NORTH HALF OF QUADRANGLE

Tps. 59 and 60 N., Rs. 26 and 27 W., cor. of, 65 ft. E. of crossroads, N. of rd., on top of N. head wall of concrete culvert; chiseled square	786.92
T. 59 N., R. 26 W., W. cor. secs. 6 and 7, 110 ft. E. of T-rd. E., at bridge over Thompson Creek, at foot of W. end of railing, on top of N. end of W. concrete abutment; chiseled square	778.74
T. 59 N., R. 27 W., E. cor. secs. 12 and 13, 20 ft. S. and 40 ft. W. from T-rd. W., 15 ft. W. of corner fence post, in fence line; iron post stamped "1920 Mo 769"	768.403
Reference mark, at NW. corner of T-rd. W., on top of N. head wall of concrete culvert; chiseled square	767.27
T. 59 N., R. 26 W., in SW. cor. sec. 18, 100 ft. S. and 50 ft. E. from S. end of bridge over fork of Big Muddy Creek, in field, in root on S. side of 30-in. elm tree; copper nail and washer	745.52
T. 59 N., R. 26 W., in NW 1/4 SW 1/4 sec. 19, at SW. corner of T-rd. S., on top of W. end of tile drain; chiseled square	745.94
T. 59 N., R. 26 W., W. sixteenth cor. between secs. 19 and 30, 120 ft. W. of rd. corner from N.-E., 160 ft. W. of bridge over creek, in field, in root on SE. side of 48-in. elm tree; copper nail and washer	741.57
T. 59 N., R. 26 W., center sec. 30, at SE. corner of crossroads, 10 ft. E. of fence corner, 4 ft. E. of 24-in. elm tree; iron post stamped "1920 Mo 789"	788.462
Reference mark, at SE. corner of crossroads, 4 ft. E. of fence corner, in root on E. side of 24-in. elm tree; copper nail and washer	787.90
T. 59 N., R. 26 W., near center sec. 31, 250 ft. S. and 50 ft. E. from S. end of bridge over Big Muddy Creek, 160 ft. S. and 50 ft. E. from T-rd. W., 45 ft. S. and 50 ft. W. from dwelling E. of rd., in root on NW. side of southwesternmost one of three elm trees; copper nail and washer	727.04

5. FROM LOCK SPRINGS SOUTH TO BRECKENRIDGE (by S. L. Parker in 1920)

Lock Springs, in front of Wabash Ry. sta.; top of N. rail	719.5
Lock Springs, 1.5 mi. S. of, cor. secs. 13, 14, 23, and 24, T. 58 N., R. 26 W., at SW. corner of T-rd. W., 4 ft. S. and 1 ft. E. from fence corner; iron post stamped "1920 Mo 713"	712.188
T. 58 N., R. 26 W., near center of NW 1/4 sec. 26, 270 ft. E. of T-rd. S., about 0.2 mi. SW. of steel bridge over Grand River, S. of rd., 15 ft. N. of fence, in root on N. side of 12-in. elm tree; copper nail and washer	714.41
T. 58 N., R. 26 W., center of NW 1/4 sec. 35, NE. of rd. corner from N.-E., 1 ft. S. and 4 ft. E. from fence corner; iron post stamped "1920 Mo 787"	786.634
Tps. 57 and 58 N., R. 26 W., 55 ft. SW. of quarter cor. between secs. 2 and 35, on Caldwell-Davies county line, S. of rd. corner from N.-W., in E.-W. fence line, in root on W. side of 13-in. elm tree; copper nail and washer	792.45
T. 57 N., R. 26 W., quarter cor. between secs. 2 and 3, SE. of rd. corner from E.-S., 17 ft. S. and 1 ft. W. from fence corner, in root on W. side of 12-in. hackberry tree; copper nail and washer	869.68

6. EAST THROUGH SOUTHWEST QUARTER OF QUADRANGLE

T. 58 N., Rs. 27 and 28 W., 120 ft. E. of approximate cor. secs. 19, 24, 25, and 30, N. of rd., 1 ft. N. of fence line, in root of 22-in. red-oak tree; copper nail	863.40
T. 58 N., R. 27 W., 0.1 mi. E. of quarter cor. between secs. 19 and 30, at NE. corner of crossroads, 11 ft. SW. of fence corner, on top of S. end of E. parapet wall of concrete culvert; chiseled square	944.30
T. 58 N., R. 27 W., quarter cor. between secs. 20 and 29, NW. of rd. corner from W.-N., 1 ft. S. and 4 ft. W. from fence corner; iron post stamped "1920 Mo 945"	943.957
T. 58 N., R. 27 W., quarter cor. between secs. 21 and 28, NW. of T-rd. N., 14 ft. S. of fence corner, on top of W. end of N. parapet wall of concrete culvert; chiseled square	834.67
T. 58 N., R. 27 W., 100 ft. E. of W. sixteenth cor. between secs. 22 and 27, 90 ft. E. of T-rd. N., on top of W. end of N. parapet wall of concrete culvert; chiseled square	872.46
T. 58 N., R. 27 W., near E. sixteenth cor. between secs. 22 and 27, NW. of rd. corner from W.-S., 1 ft. S. and 4 ft. W. from fence corner; iron post stamped "1920 Mo 866"	864.996
T. 58 N., R. 27 W., N. sixteenth cor. sec. 26, SW. of crossroads, 25 ft. SW. of fence corner, in field, in root on NW. side of 19-in. elm tree; copper nail and washer	847.97
T. 58 N., R. 27 W., near N. sixteenth cor. between secs. 25 and 26, at T-rd. S., 7 ft. S. of fence, on top of N. parapet wall of concrete culvert; chiseled square	866.30

7. NEAR MIDDLE OF EAST BORDER OF QUADRANGLE

(Continued from Chillicothe quadrangle; see line 6.)

T. 58 N., R. 25 W., about 0.2 mi. N. of quarter cor. between secs. 7 and 18, at NW. corner of T-rd. W., 8 ft. N. of fence corner, in root on E. side of 14-in. white-oak tree; copper nail and washer Feet
854.59

(Continued in Chillicothe quadrangle; see line 6.)

8. NEAR MIDDLE OF NORTH HALF OF EAST BORDER OF QUADRANGLE

(Continued from Chillicothe quadrangle; see line 11.)

T. 59 N., R. 25 W., about 0.2 mi. E. of center sec. 18, 35 ft. S. of rd. corner from E.-N., E. of driveway to barn, in root on N. side of lone 14-in. hickory tree; copper nail and washer 912.46

T. 59 N., R. 25 W., about 550 ft. E. of center sec. 7, 90 ft. W. of rd. forks, 30 ft. W. of W. bank of small creek, N. of rd., 1 ft. S. of fence; iron post stamped "1920 Mo 835" 834.376

(Continued in Chillicothe quadrangle; see line 11.)

9. NORTH THROUGH MIDDLE OF SOUTH HALF OF QUADRANGLE, THENCE EAST TO EAST BORDER (by J. M. Rawls in 1920)

T. 57 N., R. 26 W., near W. quarter cor. sec. 7, 190 ft. N. of T-rd. E., E. of rd., in root of large cottonwood tree; copper bolt 874.00

T. 57 N., R. 27 W., E. quarter cor. sec. 1, in T-rd. W., on top of cornerstone; chiseled mark 875.16

T. 58 N., R. 26 W., in SW 1/4 SW 1/4 sec. 30, 100 ft. E. of T-rd. E., N. of rd., in ledge; standard tablet stamped "1920 Mo 816" 815.758

T. 58 N., R. 27 W., center of SE 1/4 sec. 25, 50 ft. SE. of T-rd. E., in root of 18-in. hickory tree; copper nail 876.46

T. 58 N., R. 27 W., center of NE 1/4 sec. 25, 15 ft. NW. of crossroads, on top of rock culvert; chiseled mark 883.69

T. 58 N., R. 27 W., E. sixteenth cor. between secs. 13 and 24, 15 ft. E. of crossroads, on S. end of rock culvert; chiseled mark 873.80

T. 58 N., R. 27 W., near E. sixteenth cor. between secs. 12 and 13, 30 ft. SW. of T-rd. S., 2 ft. N. of fence line; iron post stamped "Mo 795" 794.500

T. 58 N., R. 26 W., W. sixteenth cor. between secs. 7 and 18, in T-rd. N.; top of cornerstone 775.45

T. 58 N., R. 26 W., near N. sixteenth cor. sec. 7, 120 ft. W. of T-rd. W., in fence line S. of rd., in root on N. side of large white-oak tree; copper nail 727.58

T. 58 N., R. 26 W., near N. sixteenth cor. sec. 6, in triangle formed by junction of rds.; iron post stamped "1920 Mo 732" 730.779

Carlow, Wabash Ry. at rd. crossing; top of S. rail 725.7

Carlow, 0.8 mi. E. of quarter cor. between secs. 33 and 34, T. 59 N., R. 26 W., 50 ft. SE. of crossroads, 2 ft. N. of fence line; iron post stamped "1920 Mo 766" 765.247

T. 59 N., R. 26 W., E. sixteenth cor. sec. 34, 50 ft. E. of crossroads, S. of rd., in root on W. side of 24-in. elm tree; copper nail 763.69

Tps. 58 and 59 N., Rs. 25 and 26 W., near cor. of, on Davless-Livingston county line, 80 ft. E. of T-rd. N., 5 ft. N. of fence line S. of rd., in rock out-crop flush with ground; standard tablet stamped "1920 Mo 880" 879.824

10. FROM CENTER OF QUADRANGLE WEST TO WEST BORDER

T. 58 N., R. 27 W., near center of NE 1/4 sec. 1, in front of dwelling, N. of rd., in root of large elm tree; copper nail 730.00

Wabash Ry. at rd. crossing; top of S. rail 732.7

Magill, 0.3 mi. W. of, along Wabash Ry., in SE 1/4 sec. 35, T. 59 N., R. 27 W., 55 ft. S. 47°50' W. of rd. crossing, 1 ft. E. of fence corner; iron post stamped "Prim Trav Sta No 25 1913 Mo 734" 733.273

Tps. 58 and 59 N., R. 27 W., cor. secs. 2, 3, 34, and 35, 35 ft. NE. of rd. corner from S.-E., in fence line E. of rd., in root of 36-in. oak tree; crossed nails 735.72

T. 58 N., R. 27 W., near quarter cor. between secs. 2 and 3, 30 ft. SW. of T-rd. W., on top of concrete culvert; chiseled square 733.37

T. 58 N., R. 27 W., about 0.2 mi. E. of center sec. 4, 50 ft. SW. of T-rd. S., in inclosure, in root of large maple tree; copper nail 738.82

T. 58 N., R. 27 W., in SW 1/4 SE 1/4 sec. 4, 45 ft. NW. of T-rd. W., 2 ft. E. of fence; iron post stamped "1920 Mo 751" 750.761

T. 58 N., R. 27 W., cor. secs. 5, 6, 7, and 8, 30 ft. SE. of crossroads, on top of concrete culvert; chiseled square 805.92

11. IN NORTHWEST CORNER OF QUADRANGLE (by R. B. Steele in 1922)

T-rd. W.; surface of rd. 856.2

T. 60 N., Rs. 27 and 28 W., line between secs. 19 and 24, in SE. corner of crossroads, at front gate to farmhouse, on top of concrete hitching block; chiseled square 847.58

Reference mark, 43 ft. S. 75° E., in root of 6-in. oak tree; copper nail and washer 845.30

Top of hill; surface of rd. 850.2

Culvert, at center of; surface of rd. 788.5

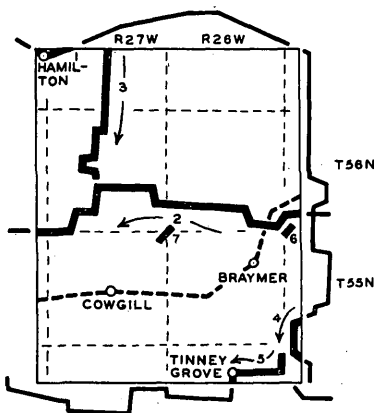
(Continued in Winston quadrangle; see line 5.)

12. LINE TO DETERMINE ELEVATION OF WATER-RESOURCES GAGE 1 MILE
EAST OF GALLATIN (by F. C. Lentz in 1936)

	Feet
U.S.C. & G.S. standard disk stamped "H 76 1935"	833.634
U.S.C. & G.S. standard disk stamped "J 76 1935"	818.722
Bridge over Grand River, on top of central pier on upstream side; chiseled square (U.S. Weather Bureau B.M.)	750.27
Gallatin, 1 mi. E. of, along State Highway 6, at NE. corner of bridge over Grand River, in top of curb rail; standard tablet (set by water-resources branch of U.S. Geol. Survey)	755.320

For additional level lines along Chicago, Rock Island & Pacific Ry. and Wabash Ry., refer to United States Coast and Geodetic Survey second-order lines, Plattsburg to Gallatin, Pattonsburg to Gallatin, and Gallatin to Sumner.

BRAYMER QUADRANGLE
(Latitude $39^{\circ}30' - 39^{\circ}45'$; longitude $93^{\circ}45' - 94^{\circ}00'$)
Caldwell, Carroll, Livingston, and Ray Counties



1. FROM HAMILTON NORTHEAST ALONG CHICAGO, BURLINGTON & QUINCY
RAILROAD TO NORTH BORDER OF QUADRANGLE (by S. R. Archer in
1920)

(Continued from Polo quadrangle; see line 2.)

Hamilton, Chicago, Burlington & Quincy R.R. at Davis Street crossing, N. of main track, E. of street; top of NW. corner of concrete base of electric warning bell	986.45
Hamilton, 80 ft. S. of Chicago, Burlington & Quincy R.R. at Davis Street Crossing, W. of street, N. of front entrance to First National Bank, 4 ft. above sidewalk, in face of rock between window and stone column; standard tablet stamped "1920 Mo 994"	993.640
Hamilton, about 0.5 mi. E. of E. limits of, cor. secs. 13, 18, 19, and 24, T. 57 N., Rs. 27 and 28 W., 30 ft. W. of T-rd. S., N. of rd., in root on NE. side of 36-in. maple tree; copper nail and washer	966.87
T. 57 N., R. 27 W., S. sixteenth cor. between secs. 17 and 18, NW. of Chicago, Burlington & Quincy R.R. at rd. crossing, SW. of T-rd. W., 4 ft. S. of fence corner; iron post stamped "1920 Mo 964"	963.736
Coal mine, N. of Chicago, Burlington & Quincy R.R.; top of shaft T. 57 N., R. 27 W., on line between secs. 16 and 17, at S. right-of-way fence of Chicago, Burlington & Quincy R.R., 25 ft. E. of N.-S. fence, in root on S. side of one of three cottonwood trees; copper nail and washer	951.0
	909.05

(Continued in Gallatin quadrangle; see line 1.)

2. FROM POINT NEAR MIDDLE OF EAST BORDER OF QUADRANGLE WEST TO
WEST BORDER (by E. B. Perry in 1921)

T. 56 N., Rs. 25 and 26 W., quarter cor. between secs. 31 and 36, 70 ft. S. and 20 ft. E. from T-rd. E. on Caldwell-Livingston county line, in root of 14-in. walnut tree; copper nail and washer	772.18
Tps. 55 and 56 N., Rs. 25 and 26 W., at cor. of, at T-rd. W., at W. corner of Carroll and Livingston Counties, on N. end of W. head wall of concrete culvert; chiseled square	759.56
Braymer, 1 mi. N. of, N. cor. secs. 2 and 3, T. 55 N., R. 26 W., W. of T-rd. S., 15 ft. S. of T-rd. N. at S. cor. secs. 34 and 35, T. 56 N., R. 26 W.; iron post stamped "Frim Trav Sta No 27 S 1921 Mo"	756.745
Reference mark, 100 ft. N. 40° E. of post, on SW. corner of concrete step of sidewalk; chiseled square	756.34

	<u>Feet</u>
Braymer, 2 mi. N. of, cor. secs. 26, 27, 34, and 35, T. 56 N., R. 26 W., at SW. corner of crossroads, in root of 12-in. locust tree; copper nail and washer	800.95
Braymer, 2 mi. N., thence 1 mi. W. from, cor. secs. 27, 28, 33, and 34, T. 56 N., R. 26 W., 150 ft. E. of T-rd. N., on W. end of S. head wall of concrete culvert; chiseled square	755.31
Braymer, 2 mi. N., thence 2 mi. W. from, cor. secs. 28, 29, 32, and 33, at crossroads, in N. wing wall of concrete culvert; standard tablet stamped "Prim Trav Sta No 28 S 1921 Mo"	818.272
Reference mark, 24 ft. S. of tablet, on W. end of S. head wall of concrete culvert; chiseled square	817.75
T. 56 N., R. 26 W., cor. secs. 29, 30, 31, and 32, 690 ft. E. of crossroads, S. of rd., on NE. corner of concrete watering trough; chiseled square	833.75
T. 56 N., R. 26 W., E. cor. secs. 25 and 36, 60 ft. S. and 30 ft. E. from T-rd. W., in Conner's yard, in root of 18-in. cottonwood tree; copper nail and washer	921.38
T. 56 N., R. 27 W., quarter cor. between secs. 26 and 35, 48 ft. N. and 54 ft. W. from crossroads, in concrete porch of church; standard tablet stamped "Prim Trav Sta No 29 S 1921 Mo"	922.060
Reference mark, 88 ft. S. 85° E. of tablet, in root of 24-in. maple tree; copper nail and washer	919.79
T. 56 N., R. 27 W., quarter cor. between secs. 23 and 26, at SW. corner of crossroads, in root of 12-in. hedge tree; copper nail and washer	924.29
T. 56 N., R. 27 W., quarter cor. between secs. 22 and 27, 40 ft. N. and 60 ft. E. from T-rd. N., in SW. corner of churchyard, in root of 12-in. elm tree; copper nail and washer	814.29
T. 56 N., R. 27 W., cor. secs. 21, 22, 27, and 28, at T-rd. E., on S. end of W. span of steel bridge over Crabapple Creek; top of seventh bolt head from bottom of span	774.20
T. 56 N., R. 27 W., cor. secs. 20, 21, 28, and 29, at T-rd. S., on top of cornerstone; chiseled square	840.26
T. 56 N., R. 27 W., in NE 1/4 NE 1/4 sec. 32, 800 ft. W. of T-rd. W., N. of rd., in root of 14-in. maple tree; copper nail and washer	955.47
T. 56 N., R. 27 W., cor. secs. 29, 30, 31, and 32, 15 ft. W. of T-rd. E.; iron post stamped "Prim Trav Sta No 30 S 1921 Mo"	882.025
Reference mark, 89 ft. S. 75° E. of post, in root of 8-in. locust tree; copper nail and washer	880.96
T. 56 N., R. 27 W., 100 ft. N. of S. cor. secs. 31 and 32, W. of rd., in root of 24-in. locust tree; copper nail and washer	904.56
T. 56 N., R. 28 W., near S. quarter cor. sec. 36, N. of rd., in root of 14-in. elm tree; copper nail and washer	909.65

(Continued in Polo quadrangle; see line 3.)

3. FROM POINT NEAR MIDDLE OF WEST HALF OF NORTH BORDER OF QUADRANGLE SOUTH TO CENTER OF WEST HALF

T. 57 N., R. 27 W., cor. secs. 15, 16, 21, and 22, 80 ft. S. and 30 ft. E. from crossroads, in root of 14-in. elm tree; copper nail and washer	958.99
T. 57 N., R. 27 W., cor. secs. 21, 22, 27, and 28, 720 ft. N. of crossroads, in front of dwelling of Mrs. R. F. Jones, E. of rd., in root of 30-in. maple tree; copper nail and washer	952.49
T. 57 N., R. 27 W., cor. secs. 27, 28, 33, and 34, at crossroads, in SE. corner of porch of Excelsior School; standard tablet (not stamped)	887.774
Reference mark, 65 ft. N. 45° E. of tablet, on concrete base of fence post; chiseled square	883.57
T. 57 N., R. 27 W., S. cor. secs. 33 and 34, 25 ft. N. and 30 ft. W. from T-rd. N., in root of 24-in. elm tree; copper nail and washer	860.40
T. 56 N., R. 27 W., cor. secs. 3, 4, 9, and 10, in center of crossroads, on top of cornerstone; chiseled square	802.09
T. 56 N., R. 27 W., cor. secs. 4, 5, 8, and 9, 225 ft. N. and 141 ft. W. from crossroads, in concrete porch of Pleasant Ridge Church; standard tablet (not stamped)	857.361
Reference mark, 300 ft. S. 45° E. of tablet, in root of 12-in. elm tree; copper nail and washer	846.26
T. 56 N., R. 27 W., in SE 1/4 NE 1/4 sec. 17, at T-rd. N. (? E.), on E. end of N. head wall of concrete culvert; chiseled square	842.39
T. 56 N., R. 27 W., quarter cor. between secs. 17 and 20, 60 ft. S. and 100 ft. E. from T-rd. E., in root of 30-in. pin-oak tree; copper nail and washer	861.71
T. 56 N., R. 27 W., in NE 1/4 sec. 21, in front of dwelling of F. C. McBee, on concrete step of sidewalk; chiseled square	806.48

4. IN SOUTHEAST CORNER OF QUADRANGLE

(Continued from Dawn quadrangle; see line 5.)

Tps. 54 and 55 N., Rs. 25 and 26 W., cor. of, 30 ft. S. and 25 ft. W. from crossroads at E. corner of Caldwell and Ray Counties; in root of 24-in. maple tree; copper nail and washer	911.82
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(Continued in Dawn quadrangle; see line 5.)

5. NEAR MIDDLE OF EAST HALF OF SOUTH BORDER OF QUADRANGLE

Tinney Grove, center sec. 10, T. 54 N., R. 26 W., 20 ft. N. and 20 ft. W. from T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 42 1921 Mo"	<u>Feet</u> 912.808
Reference mark, 80 ft. S. 50° W. of tablet, in root of 12-in. locust tree; copper nail and washer	913.21
T. 54 N., R. 26 W., in NE 1/4 SE 1/4 sec. 9, at NE. corner of T-rd. E., on concrete base of corner fence post; chiseled square	890.38

6. NEAR MIDDLE OF EAST BORDER OF QUADRANGLE (by F. L. Whaley in 1922)

Tps. 55 and 56 N., Rs. 25 and 26 W., cor. of, in SW. corner of T-rd. W. at W. cor. of Carroll and Livingston Counties, in concrete post; standard tablet stamped "W 1922 Mo"	763.842
Reference mark, 61 ft. N. of tablet, in root of 20-in. elm tree; copper nail and washer	760.97

7. NEAR CENTER OF QUADRANGLE

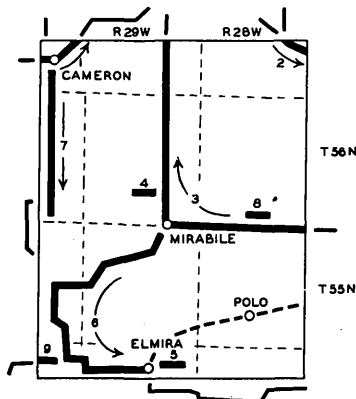
Tps. 55 and 56 N., Rs. 26 and 27 W., cor. of, 25 ft. S. and 34 ft. W. from crossroads, in concrete post; standard tablet stamped "W 1922 Mo"	805.777
Reference mark, 187 ft. S. 35° E. of tablet, in root of 36-in. locust tree; copper nail and washer	811.36

TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY SECOND-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE AT BRAYMER (by B. A. Barnes in 1936)

Braymer, 1 mi. N. of, N. cor. secs. 2 and 3, T. 55 N., R. 26 W., W. of T-rd. S., 15 ft. S. of T-rd. N. at S. cor. secs. 34 and 35, T. 56 N., R. 26 W.; iron post stamped "Prim Trav Sta No 27 S 1921 Mo"	756.745
Reference mark, 100 ft. N. 40° E. of post, on SW. corner of concrete step of sidewalk; chiseled square	756.34
U.S.C. & G.S. standard disk stamped "J 79 1935"	755.356

For an additional level line along Chicago, Milwaukee, St. Paul and Pacific R.R., refer to United States Coast and Geodetic Survey second-order line, Chillicothe to Lawson.

POLO QUADRANGLE
(Latitude 39°30'-39°45'; longitude 94°00'-94°15')
Caldwell, Clinton, DeKalb, and Ray Counties

1. IN NORTHWEST CORNER OF QUADRANGLE (by S. R. Archer in 1920)
(Continued from Plattsburg quadrangle; see line 1.)

Cameron, 650 ft. W. of Chicago, Rock Island & Pacific Ry. and Chicago, Burlington & Quincy R.R. sta. (Cameron Junction), N. of Chicago, Rock Island & Pacific Ry. steel water tank, on top of NE. corner of square concrete platform; chiseled square	1,034.94
Cameron, at Chicago, Rock Island & Pacific Ry. passenger sta., in front of operator's window; top of E. rail	1,033.8
Cameron, opposite NW. corner of park, 25 ft. E. of Chicago, Rock Island & Pacific Ry., 17 ft. E. of bell signal post, 3 ft. S. of sidewalk; iron post stamped "Prim Trav Sta No 4 1913 Mo"	1,036.212

Cameron, opposite N. side of park, at SW. corner of brick schoolhouse, 1 ft. above sidewalk, in S. face of cornerstone; standard tablet stamped "1920 Mo 1039"	<u>Feet</u>
T. 57 N., R. 30 W., near W. sixteenth cor. between secs. 13 and 24, NE. of Chicago, Burlington & Quincy R.R. at rd. crossing on Clinton-DeKalb county line, on top of E. end of tile culvert; chiseled square	1,038.548
T. 57 N., R. 30 W., S. sixteenth cor. sec. 13, 115 ft. N. of Chicago, Burlington & Quincy R.R. at rd. crossing, 40 ft. N. of junction of private rd. E., in fence line E. of rd., in root on NW. side of 14-in. maple tree; copper nail and washer	983.43
	972.11

(Continued in Winston quadrangle; see line 1.)

2. IN NORTHEAST CORNER OF QUADRANGLE

(Continued from Winston quadrangle; see line 1.)

T. 57 N., R. 28 W., center sec. 14, 200 ft. E. of Chicago, Burlington & Quincy R.R. at crossing of rd. N., S. of track, N. of rd., opposite E. end of triangular grass plot, in root on S. side of 12-in. maple tree; copper nail and washer	982.10
Hamilton, NW. of Chicago, Burlington & Quincy R.R. at Gallatin Avenue crossing; top of NE. corner of concrete base of electric warning bell	990.62
Hamilton, in W. part of, on W. Mill Street, 2 ft. S. and 1 ft. W. from NW. corner of brick school building; iron post stamped "Prim Trav Sta No 6 1913 Mo"	996.039

(Continued in Braymer quadrangle; see line 1.)

3. FROM MIDDLE OF EAST BORDER OF QUADRANGLE WEST TO MIRABILE, THENCE NORTH TO MIDDLE OF NORTH BORDER (by E. B. Perry and F. L. Whaley in 1921)

(Continued from Braymer quadrangle; see line 2.)

Tps. 55 and 56 N., R. 28 W., near cor. secs. 1, 2, 35, and 36, 10 ft. N. and 25 ft. W. from T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 31 S 1921 Mo"	896.767
Reference mark, 69 ft. S. 6° W. of tablet, on NE. corner of concrete step of school; chiseled square	903.52
Tps. 55 and 56 N., R. 28 W., near quarter cor. between secs. 2 and 35, about 40 ft. W. of T-rd. W., on S. head wall of concrete culvert; chiseled square	877.38
Tps. 55 and 56 N., R. 28 W., cor. secs. 2, 3, 34, and 35, 60 ft. S. and 15 ft. E. from T-rd. S., in root of 24-in. black-oak tree; copper nail and washer	950.01
Tps. 55 and 56 N., R. 28 W., near cor. secs. 3, 4, 33, and 34, Kingston-Polo rd. at rd. E., on E. side of SW. corner of steel bridge; top of eighth bolt head from bottom	834.67
T. 55 N., R. 28 W., N. cor. secs. 5 and 6, 28 ft. N. of T-rd. S., iron post stamped "Prim Trav Sta No 32 S 1921 Mo"	939.419
Reference mark, 60 ft. NE. of post, in root of 18-in. black-oak tree; copper nail and washer	937.14
Tps. 55 and 56 N., Rs. 28 and 29 W., 900 ft. W. of cor. of, 430 ft. E. of T-rd. S., W. of driveway to barnyard of G. W. Houghton, in root of 10-in. maple tree; copper nail and washer	969.06
T. 56 N., R. 29 W., about 500 ft. W. of S. cor. secs. 35 and 36, in E. side of White's yard, in root of 21-in. maple tree; copper nail and washer	1,003.06
Tps. 55 and 56 N., R. 29 W., approximate cor. secs. 2, 3, 34, and 35, 15 ft. N. of rd.; iron post stamped "Prim Trav Sta No 33 S 1921 Mo"	986.911
Reference mark, 230 ft. W. of N. cor. secs. 2 and 3, on top of N. guard wall of concrete culvert; chiseled square	979.58
Mirabile, about 600 ft. N. of S. quarter cor. sec. 34, T. 56 N., R. 29 W., at entrance to Presbyterian Church, on concrete walk at base of step; chiseled square	1,006.05
T. 56 N., R. 29 W., about 200 ft. N. of approximate quarter cor. between secs. 27 and 34, at entrance to barnyard of Sidney D. Frost, in root of 18-in. black-locust tree; copper nail and washer	995.82
T. 56 N., R. 29 W., in NW 1/4 SE 1/4 sec. 27, at E. entrance to dwelling of I. A. Frost, on NW. corner of concrete walk; chiseled square	970.22
T. 56 N., R. 29 W., in SE 1/4 SE 1/4 sec. 22, in front of dwelling of Ed Orr, in root of oak tree; copper nail and washer	947.54
T. 56 N., R. 29 W., quarter cor. between secs. 14 and 15, 250 ft. S. of T-rd. W., opposite Far West Church, on SE. corner of E. side of concrete culvert; chiseled square	898.44
T. 56 N., R. 29 W., quarter cor. between secs. 10 and 11, at NE. corner of crossroads at Kerr, in NE. corner of concrete well top; standard tablet stamped "1921 Mo"	901.956
Reference mark, 106 ft. NW. of tablet, about 150 ft. N. of crossroads, opposite store, in root of E. one of three maple trees; copper nail and washer	908.21
T. 56 N., R. 29 W., on line between secs. 2 and 3, at NW. end of Stoner Bridge over Shoal Creek, on top of NW. stone abutment; chiseled square	828.70
T. 56 N., R. 29 W., in NE. cor. sec. 3, in front yard of O. E. Crouch, in root of 12-in. hickory tree (E. one of group of small hickory trees); copper nail and washer	914.68
T. 57 N., R. 29 W., cor. secs. 26, 27, 34, and 35, 160 ft. SE. of T-rd. S., in field, in root of 36-in. sycamore tree; copper nail and washer	939.03
T. 57 N., R. 29 W., center of NE 1/4 sec. 27, in yard of J. R. Anderson, in SW. corner of concrete well top; standard tablet	943.658
Reference mark, 200 ft. W. of tablet, in root of 30-in. maple tree; copper nail and washer	939.49

	<u>Feet</u>
T. 57 N., R. 29 W., E. sixteenth cor. sec. 22, 60 ft. SW. of T-rd. E., in root of 50-in. cottonwood tree; copper nail and washer	958.52
T. 57 N., R. 29 W., S. sixteenth cor. between secs. 14 and 15, 200 ft. N. of culvert, W. of rd., in root of 36-in. cottonwood tree; copper nail and washer	932.55

(Continued in Winston quadrangle; see line 3.)

4. NEAR CENTER OF QUADRANGLE (by F. L. Whaley in 1921)

T. 56 N., R. 29 W., quarter cor. between secs. 27 and 28, 720 ft. W. of T-rd. N., inside fence line S. of rd., in root of 24-in. elm tree; copper nail and washer	911.43
T. 56 N., R. 29 W., E. sixteenth cor. sec. 29, 33 ft. S. and 26 ft. W. from T-rd. S. (? crossroads), 11 ft. S. of fence corner, inside fence line; top of iron stake	989.48

5. NEAR MIDDLE OF SOUTH BORDER OF QUADRANGLE (by E. B. Perry in 1921)

T. 54 N., R. 29 W., N. sixteenth cor. between secs. 10 and 11, at crossroads, S. (? N.) of rd., in root of 18-in. elm tree; copper nail and washer	955.17
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6. FROM POINT NEAR MIRABILE SOUTHWEST TO POINT NEAR MIDDLE OF SOUTH HALF OF WEST BORDER OF QUADRANGLE, THENCE SOUTH AND EAST TO POINT NEAR ELMIRA (by F. L. Whaley in 1922)

T. 55 N., R. 29 W., E. sixteenth cor. between secs. 3 and 10, 130 ft. S. and 30 ft. E. from T-rd. E., 3 ft. E. of fence, in root of 36-in. white-oak tree; copper nail and washer	931.97
T. 55 N., R. 29 W., N. sixteenth cor. sec. 10, in NW. corner of yard of T. McCobeandale, in root of 18-in. maple tree at W. end of row of trees; copper nail and washer	1,002.93
T. 55 N., R. 29 W., center of NE 1/4 sec. 9, 130 ft. E. of T-rd. S., on S. guard wall of concrete culvert; chiseled square	1,002.61
T. 55 N., R. 29 W., quarter cor. between secs. 8 and 9, 275 ft. N. of T-rd. W., in fence line W. of rd., in root of 24-in. elm tree; copper nail and washer	987.36
T. 55 N., R. 29 W., near center sec. 8, in SW. corner of concrete well top at Lafayette School; standard tablet stamped "1922 Mo"	1,035.871
Reference mark 1, on top of concrete well top; chiseled square	1,035.75
Reference mark 2, 60 ft. S. and 350 ft. W. from schoolhouse, S. of rd., at NE. corner of maple grove, in root of 18-in. maple tree; copper nail and washer	1,042.36
T. 55 N., R. 29 W., near E. sixteenth cor. between secs. 7 and 18, at SE. corner of yard of Ira C. Scott, in root of 36-in. maple tree; copper nail and washer	1,041.28
T. 55 N., R. 29 W., quarter cor. between secs. 18 and 19, near farmhouse of Joe Pollard, at NW. corner of crossroads, in concrete post; standard tablet stamped "1922 Mo"	1,003.739
Reference mark 1, 80 ft. NW. of farmhouse, E. of rd., in root of maple tree; copper nail and washer	1,011.18
Reference mark 2, 70 ft. SW. of farmhouse, E. of rd., in root of 20-in. maple tree; copper nail and washer	1,011.04
T. 55 N., R. 30 W., on line between secs. 13 and 24, at NE. corner of yard of Lee Conyer, in root of 24-in. maple tree; copper nail and washer	975.88
T. 55 N., R. 30 W., W. sixteenth cor. between secs. 13 and 24, 40 ft. E. of T-rd. N., on N. guard wall of concrete culvert; chiseled square	966.89
T. 55 N., R. 30 W., about 800 ft. E. of quarter cor. between secs. 14 and 23, on NW. concrete wing wall of bridge over creek; chiseled square	972.32
T. 55 N., R. 30 W., cor. secs. 14, 15, 22, and 23, 20 ft. S. and 20 ft. W. from crossroads; iron post stamped "Prim Trav Sta No 35 S 1921 Mo W 1922"	1,038.979
Reference mark, 0.2 mi. S. 1° E. of post, E. of rd., 4 ft. E. of fence, in root of 36-in. cottonwood tree; copper nail and washer	1,031.35
T. 55 N., R. 30 W., W. sixteenth cor. between secs. 23 and 26, 60 ft. SE. of T-rd. W., 12 ft. E. of fence, in root of 14-in. white-oak tree; copper nail and washer	991.34
T. 55 N., R. 30 W., near W. sixteenth cor. sec. 26, at S. entrance to Brookings Church, in W. end of top concrete step; standard tablet stamped "W 1922 Mo"	1,033.009
Reference mark 1, 60 ft. NW. of tablet, in root of 24-in. maple tree; copper nail and washer	1,032.88
Reference mark 2, 120 ft. SW. of tablet, on NW. corner of N. head wall of concrete culvert; chiseled cross	1,026.57
T. 55 N., R. 30 W., in SE 1/4 NW 1/4 sec. 35, 100 ft. NW. of steel bridge over Crooked River, in fence line W. of rd., in root of 14-in. walnut tree; copper nail and washer	965.52
T. 54 N., R. 30 W., 0.2 mi. W. of N. cor. secs. 1 and 2, 20 ft. S. and 60 ft. W. from crossroads, in fence line, in root of 15-in. elm tree; copper nail and washer	1,055.08
T. 54 N., R. 30 W., E. sixteenth cor. between secs. 2 and 11, 25 ft. N. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 36 S 1921 Mo"	1,010.766
Reference mark, 80 ft. N. 88° E. of tablet, in root of 20-in. elm tree; copper nail and washer	1,005.28

	Feet
T. 54 N., R. 30 W., E. cor. secs. 1 and 12, at SW. corner of T-rd. W. on Clinton-Ray county line, on W. end of stone culvert; chiseled square	1,019.75
T. 54 N., R. 29 W., 500 ft. E. of W. quarter cor. sec. 7, at NW. corner of concrete bridge, on concrete abutment; chiseled square	958.56
T. 54 N., R. 29 W., quarter cor. between secs. 7 and 8, at junction of private rd. N. to farmhouse, on top of N. guard wall of concrete culvert; chiseled square	935.58
T. 54 N., R. 29 W., E. sixteenth cor. sec. 8, SW. of Benton School, near NE. corner of yard of J. A. Green, in root of 18-in. locust tree; copper nail and washer	1,008.90
T. 54 N., R. 29 W., W. sixteenth cor. sec. 9, 20 ft. N. and 15 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 37 S 1921 Mo"	962.761
Reference mark, 155 ft. N. 89° E. of post, in root of 30-in. black-oak tree; copper nail and washer	955.93
Elmira, opposite semaphore in front of Chicago, Milwaukee, St. Paul and Pacific R.R. sta.; top of N. rail of main track	880.8
Elmira, 0.5 mi. E. of, 0.2 mi. S. of quarter cor. between secs. 3 and 10, T. 54 N., R. 29 W., N. of rd., in root of 12-in. black-oak tree; copper nail and washer	925.79

7. SOUTH ALONG NORTH HALF OF WEST BORDER OF QUADRANGLE (by F. L. Whaley and R. B. Steele in 1922)

Cameron, at S. limits of, in center of NW 1/4 sec. 26, T. 57 N., R. 30 W., at T-rd. E., W. of Pat Kenney's place, in root of 18-in. maple tree; copper nail and washer	1,032.02
T. 57 N., R. 30 W., center of NW 1/4 sec. 35, at SW. corner of crossroads, at front entrance to Park School, on E. side of doorway, on concrete walk; chiseled square	999.35
Concrete culvert, center of; surface of rd.	930.4
T. 56 N., R. 30 W., near W. sixteenth cor. on N. line sec. 2, 25 ft. S. and 25 ft. W. from T-rd. S., 2 ft. S. and 2 ft. E. from fence corner; iron post stamped "Prim Trav Sta No 47 S 1921 Mo R S 20 1921"	978.795
Reference mark, 61 ft. S. 10° W. of post, on concrete walk; chiseled square	980.08
Junction of private rd. E.; surface of rd.	880.0
T. 56 N., R. 30 W., 0.2 mi. E. of cor. secs. 2, 3, 10, and 11, W. of T-rd., on concrete base of highway signboard; chiseled square	868.57
T-rd.; top of S. end of concrete culvert	902.90
Bridge over Shoal Creek; center of	869.5
Shoal Creek, under bridge; surface of water at 8 a.m. June 27, 1922	847.1
T. 56 N., R. 30 W., in center SW 1/4 sec. 14, 70 ft. S. and 10 ft. E. from T-rd. E., on top of E. end of concrete culvert; chiseled square	930.34
T. 56 N., R. 30 W., 0.2 mi. E. of cor. secs. 14, 15, 22, and 23, 63 ft. (35 ft. by levelman) N. and 20 ft. W. from T-rd. W., 17 ft. N. and 2 ft. E. from corner of hedge fence; iron post stamped "Prim Trav Sta No 46 S 1921 Mo" (Reset 28 ft. N. of above described location by A. J. St. John, highway engineer, Sept. 13, 1928. Given elevation is for new location.)	910.322
Reference mark, 23 ft. S. 5° E. of post, on S. end of concrete culvert; chiseled square	908.30
T-rd.; center of concrete culvert	972.51
Top of hill; surface of rd.	1,014.9
T. 56 N., R. 30 W., in center of SW 1/4 sec. 26, 120 ft. S. of crossroads, on top of E. head wall of concrete culvert; chiseled square	976.60
Concrete culvert, center of; surface of rd.	959.1

8. NEAR MIDDLE OF EAST BORDER OF QUADRANGLE (by F. L. Whaley in 1922)

T. 56 N., R. 28 W., in SE. cor. sec. 34, 20 ft. S. and 110 ft. E. from crossroads, 2 ft. S. of fence, in concrete post; standard tablet stamped "W 1922 Mo"	830.478
Reference mark, 78 ft. S. and 5 ft. W. from tablet, in root of 20-in. walnut tree; copper nail and washer	834.18

9. IN SOUTHWEST CORNER OF QUADRANGLE (by W. R. Broadbuss in 1923)
(Continued from Plattsburg quadrangle; see line 4.)

T. 54 N., R. 30 W., 50 ft. E. of cor. secs. 2, 3, 10, and 11, in fence line N. of rd., in root on S. side of 18-in. elm tree; copper nail and washer	1,034.97
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TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY SECOND-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE AT ELMIRA (by B. A. Barnes in 1936)

T. 54 N., R. 29 W., W. sixteenth cor. sec. 9, 20 ft. N. and 15 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 37 S 1921 Mo"	962.761
Reference mark, 155 ft. N. 89° E. of post, in root of 30-in. black-oak tree; copper nail and washer	955.93
U.S.C. & G.S. standard disk stamped "W 79 1935"	942.790

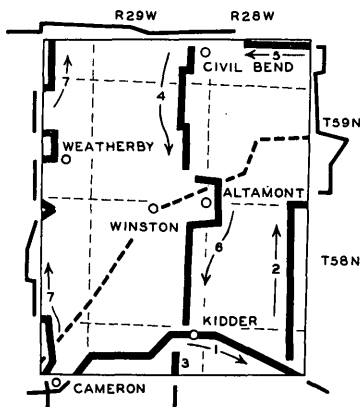
For additional level lines along Chicago, Milwaukee, St. Paul and Pacific R.R. and Chicago, Rock Island & Pacific Ry., refer to United States Coast and Geodetic Survey second-order lines, Chillicothe to Lawson and Plattsburg to Gallatin.

SPIRIT LEVELING IN MISSOURI

WINSTON QUADRANGLE

(Latitude $39^{\circ}45' - 40^{\circ}00'$; longitude $94^{\circ}00' - 94^{\circ}15'$)

Caldwell, Daviess, and DeKalb Counties



1. NEAR SOUTH BORDER OF QUADRANGLE, EAST ALONG CHICAGO, BURLINGTON
& QUINCY RAILROAD (by S. R. Archer in 1920)
(Continued from Polo quadrangle; see line 1.)

(Continued from Polo quadrangle; see line 1.)

- | | Feet |
|---|-----------|
| T. 57 N., R. 29 W., in NW 1/4 sec. 18, 0.2 mi. NE. of Caldwell-DeKalb county line, on Chicago, Burlington & Quincy R.R., at W. end of first cut E. of bridge over stream, 270 ft. E. of milepost 169, 50 ft. N. and 30 ft. E. from handcar landing, at N. fence line, inside field, in root on W. side of 24-in. oak tree; copper nail and washer | 917.40 |
| T. 57 N., R. 29 W., on line between secs. 7 and 8, SW. of Chicago, Burlington & Quincy R.R. at rd. crossing, inside of fence corner; iron post stamped "1920 Mo 883" | 882.354 |
| T. 57 N., R. 29 W., in SE 1/4 SW 1/4 sec. 8, at Chicago, Burlington & Quincy R.R. bridge 167:54 over Brushy Creek, on top of S. end of parapet wall of E. abutment; chiseled square | 875.53 |
| T. 57 N., R. 29 W., near cor. secs. 8, 9, 16, and 17, 170 ft. W. of Chicago, Burlington & Quincy R.R. at rd. crossing, 10 ft. N. of N. right-of-way fence, in root on S. side of 30-in. oak tree; copper nail and washer | 893.73 |
| T. 57 N., R. 29 W., near S. sixteenth cor. sec. 9, at Chicago, Burlington & Quincy R.R. bridge 166:34 over Brushy Creek, on top of S. end of parapet wall of E. abutment; chiseled square | 880.444 |
| T. 57 N., R. 29 W., near E. quarter cor. sec. 9, NW. of Chicago, Burlington & Quincy R.R. at rd. crossing, 2 ft. N. of fence corner; iron post stamped "1920 Mo 906" | 905.619 |
| T. 57 N., R. 29 W., in NW 1/4 NE 1/4 sec. 10, W. of Chicago, Burlington & Quincy R.R., 65 ft. W. of fence corner, in fence line, in root on N. side of 36-in. cottonwood tree; spike | 954.71 |
| T. 57 N., R. 29 W., on line between secs. 2 and 3, 400 ft. S. of Chicago, Burlington & Quincy R.R. at rd. crossing, about 0.1 mi. N. of T-rd. E., at NW. corner of Kidder Cemetery, E. of rd., inside of fence corner, in root on W. side of forked maple tree; copper nail and washer | 998.13 |
| T. 57 N., R. 29 W., quarter cor. between secs. 1 and 2, 50 ft. S. and 35 ft. E. from Chicago, Burlington & Quincy R.R. at rd. crossing, S. of T-rd. W., 4 ft. S. and 10 ft. E. from fence corner, in root on NW. side of 15-in. maple tree; copper nail and washer | 1,005.19 |
| Kidder, at Chicago, Burlington & Quincy R.R. sta., top of N. rail of main track | 1,018.5 |
| Kidder, 0.2 mi. E. of Chicago, Burlington & Quincy R.R. sta., NE. of rd. crossing, at SE. corner of T-rd. S., at fence corner; iron post stamped "1920 Mo 1009" | 1,008.341 |
| Kidder, 0.7 mi. E. of Chicago, Burlington & Quincy R.R. sta., on line between secs. 1 and 6, T. 57 N., Rs. 28 and 29 W., SW. of rd. crossing, on top of W. end of tile drain; chiseled square | 1,012.32 |
| T. 57 N., R. 28 W., near quarter cor. between secs. 5 and 8, 120 ft. SW. of Chicago, Burlington & Quincy R.R. at rd. crossing, in fence line S. of rd., in root (4 in. under surface of ground) on W. side of 12-in. elm tree; copper nail and washer | 990.23 |
| T. 57 N., R. 28 W., in NW 1/4 sec. 9, SW. of Chicago, Burlington & Quincy R.R. at rd. crossing, inside of fence corner; iron post stamped "1920 Mo 1010" | 1,009.418 |
| T. 57 N., R. 28 W., line between secs. 9 and 10, 80 ft. N. of Chicago, Burlington & Quincy R.R. at rd. crossing, 15 ft. N. of rd. fork SE., 15 ft. N. and 5 ft. W. from fence corner, inside field, in root on SE. side of maple tree (S. one of row of small maple trees); copper nail and washer | 998.51 |

T. 57 N., R. 28 W., in NE 1/4 NE 1/4 sec. 15, 600 ft. W. of Chicago, Burlington & Quincy R.R. at rd. crossing, in fence line S. of rd., in root on SE. side of 30-in. cottonwood tree; copper nail and washer Feet
991.02

(Continued in Polo quadrangle; see line 2.)

2. NORTH ALONG SOUTH HALF OF EAST BORDER OF QUADRANGLE

T. 57 N., R. 28 W., on line between secs. 11 and 12, on top of N. end of E. head wall of concrete culvert; chiseled square 942.89
T. 57 N., R. 28 W., cor. secs. 1, 2, 11, and 12, 85 ft. N. of rd. W., W. of N.-S. rd., opposite rd. E.; iron post stamped "1920 Mo 941" 940.495
Tps. 57 and 58 N., R. 28 W., 125 ft. E. of cor. secs. 1, 2, 35, and 36, at SE. corner of crossroads on Caldwell-Davies county line, in fence line, in root on SW. side of 10-in. elm tree; copper nail and washer 929.05
T. 58 N., R. 28 W., on line between secs. 35 and 36, at SW. corner of bridge over Marrowbone Creek, on top of E. end of concrete retaining wall; chiseled square 859.69
T. 58 N., R. 28 W., cor. secs. 25, 26, 35, and 36, 90 ft. E. of crossroads, N. of rd., in field, in root on SW. side of 24-in. box-elder tree; copper nail and washer 908.17
T. 58 N., R. 28 W., near line between secs. 25 and 26, at NW. corner of bridge over creek, 1 ft. N. of N. post of iron railing, on top of S. end of concrete wing wall; chiseled square 860.77
T. 58 N., R. 28 W., cor. secs. 23, 24, 25, and 26, 55 ft. N. and 20 ft. W. from crossroads, in line with S. side of dwelling W. of rd.; iron post stamped "1920 Mo 908" 907.450
T. 58 N., R. 28 W., cor. secs. 13, 14, 23, and 24, at SW. corner of crossroads, in root on NW. side of 6-in. elm tree; copper nail and washer 903.29
T. 58 N., R. 28 W., cor. secs. 11, 12, 13, and 14, 175 ft. SW. of T-rd. E., 75 ft. SW. of S. end of bridge over Dog Creek, 20 ft. W. of rd., in root on S. side of 10-in. sycamore tree; copper nail and washer 796.37
Bridge over Dog Creek, at NW. corner of, on top of cylinder pier; top of bolt head 801.67
T. 58 N., R. 28 W., NE. cor. sec. 11, 20 ft. S. of crossroads, 2 ft. W. of corner fence post; iron post stamped "Prim Trav Sta Mo 1915-912" 911.780
Reference mark, 20 ft. S. of crossroads, in root on NW. side of 6-in. elm tree; copper nail and washer 915.50
T. 58 N., R. 28 W., in SW. 1/4 NW 1/4 sec. 1, 50 ft. W. of rd. at fence S. of rd., in root on E. side of forked hedge tree; copper nail and washer 864.72
(Continued in Gallatin quadrangle; see line 2.)

3. NEAR MIDDLE OF SOUTH BORDER OF QUADRANGLE (by F. L. Whaley in 1921)

(Continued from Polo quadrangle; see line 3.)

T. 57 N., R. 29 W., cor. secs. 10, 11, 14, and 15, at SE. corner of crossroads, on E. guard wall of concrete culvert; chiseled square 948.39

4. FROM MIDDLE OF NORTH BORDER OF QUADRANGLE SOUTH ABOUT 6 MILES (by R. B. Steele and J. M. Rawls in 1922)

T. 60 N., R. 29 W., E. sixteenth cor. sec. 23, NW. of crossroads, at SE. corner of yard of G. B. Schriver, in root on E. side of 16-in. locust tree; copper nail 896.97
T. 60 N., R. 29 W., E. sixteenth cor. between secs. 23 and 26, 90 ft. N. and 20 ft. E. from crossroads, in yard of L. O. Schriver, in root on W. side of 16-in. maple tree; copper nail 924.36
T-rd. W.; surface of rd. 929.9
T. 60 N., R. 29 W., E. sixteenth cor. between secs. 26 and 35, 450 ft. N. of crossroads, on top of E. head wall of concrete culvert; chiseled square 922.07
T-rd. E.; surface of rd. 964.9
Top of hill; surface of rd. 986.7
Culvert, at center of; surface of rd. 952.6
T. 59 N., R. 29 W., E. sixteenth cor. on N. line sec. 2, in SE. corner of crossroads, 7 ft. S. and 1 ft. W. from fence corner, in concrete; iron post stamped "1/4 R S 1922 Mo" 941.899
Reference mark, 68 ft. N. 66° E. of post, on S. end of concrete culvert; chiseled square 938.38
Concrete culvert; top of N. end of 991.77
T. 59 N., R. 29 W., E. sixteenth cor. between secs. 2 and 11, 30 ft. N. and 20 ft. E. from crossroads, 1 ft. W. of fence, on top of stone; chiseled square 1,025.12
T. 59 N., R. 29 W., E. sixteenth cor. between secs. 11 and 14, NE. of crossroads; top of E. head wall of concrete culvert 988.48
T. 59 N., R. 29 W., in SE 1/4 sec. 14, SW. of crossroads, 5 ft. W. of fence corner, in concrete; iron post stamped "5 R S 1922 Mo" 1,012.295
Reference mark, 14 ft. N. 60° E. of post, on top of S. end of concrete culvert; chiseled square 1,011.80

5. FROM NORTHEAST CORNER OF QUADRANGLE WEST 3.5 MILES (leveled twice by R. B. Steele in 1922)

(Continued from Gallatin quadrangle; see line 11.)

T. 60 N., R. 28 W., in W 1/2 sec. 24, at SE. corner of yard of J. R. Searl, 1 ft. W. of E. fence, in concrete post; standard tablet stamped "R S 1 1922 Mo" 798.990

	Feet
T. 60 N., R. 28 W., in E 1/2 sec. 23, in center of rd., in line with W. fence of rd. S., on top of stone; chiseled square	813.29
Top of hill; surface of rd.	856.3
Top of hill; surface of rd.	869.0
Small iron bridge; center of	763.3
T. 60 N., R. 28 W., quarter cor. between secs. 22 and 23, 30 ft. S. and 30 ft. W. from T-rd. N., 8 ft. S. of fence, in root on E. side of twin maple tree; copper nail	798.69
Grand River, under bridge; surface of water at 11 a.m. May 13, 1922	731.0
T. 60 N., R. 28 W., in SW 1/2 NE 1/4 sec. 22, at W. end of bridge over Grand River, on top of W. end of S. concrete head wall of approach; chiseled square	766.95
T-rd. S.; top of E. end of galvanized iron pipe culvert	761.25
T. 60 N., R. 28 W., E. sixteenth cor. sec. 21, 21 ft. N. and 20 ft. E. from T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 73 S 1921 Mo 2 R S 1922"	821.979
Top of hill; surface of rd.	876.4
T. 60 N., R. 28 W., quarter cor. between secs. 20 and 21, SE. of T-rd. S., 4 ft. E. of fence corner, on top of stone; chiseled square	897.37

(Continued in Pattonsburg quadrangle; see line 3.)

6. SOUTH THROUGH MIDDLE OF SOUTH HALF OF QUADRANGLE

T. 59 N., R. 29 W., E. sixteenth cor. sec. 23, NE. of crossroads, on top of E. head wall of concrete culvert; chiseled square	1,006.09
T. 59 N., R. 29 W., in NW 1/4 NE 1/4 sec. 26, on top of E. end of NE. head wall of overhead bridge of Chicago, Rock Island & Pacific Ry.; chiseled square	1,020.01
R.R. switch, at N. end of; top of N. rail	1,009.8
Altamont, 580 ft. W. of Chicago, Rock Island & Pacific Ry. sta., NW. of rd. crossing, on top of SE. corner of concrete base of semaphore; chiseled square	1,005.44
Altamont, at Chicago, Rock Island & Pacific Ry. sta.; top of near rail	1,005.0
Altamont, in SE. part of, 150 ft. E. of high school, 28 ft. S. and 18 ft. E. from crossroads, in concrete; iron post stamped "6 R S 1922"	1,003.905
Reference mark, 56 ft. N. 80° W. of post, in root on E. side of 6-in. box-elder tree; copper nail	1,006.53
Tps. 58 and 59 N., R. 28 W., on line between secs. 6 and 31, SE. of crossroads, in root on N. side of 10-in. twin maple tree; copper nail	971.42
Tps. 58 and 59 N., R. 28 and 29 W., cor. of, NE. of crossroads, on top of E. end of concrete culvert; chiseled square	989.52
T. 58 N., R. 29 W., E. cor. secs. 1 and 12, 30 ft. S. and 17 ft. W. from T-rd. W., 15 ft. S. and 1 ft. E. from fence corner, in concrete; iron post stamped "7 R S 1922 Mo"	958.955
Reference mark, 112 ft. N. 5° E. of post, on top of W. end of concrete culvert; chiseled square	950.84
Culvert, at center of; surface of rd.	911.0
Bridge over Dog Creek; center of	906.5
T. 58 N., R. 29 W., cor. secs. 1, 2, 11, and 12, N. of T-rd. S., in root on SE. side of 24-in. elm tree; copper nail	977.50
Top of hill; surface of rd.	1,008.1
T. 58 N., R. 29 W., cor. secs. 11, 12, 13, and 14, 40 ft. S. and 60 ft. W. from crossroads, in NE. corner of concrete platform of Castor School; standard tablet stamped "8 R S 1922 Mo"	983.039
Reference mark, 53 ft. N. 55° E. of tablet, on top of cornerstone; chiseled square	982.11
T. 58 N., R. 29 W., 720 ft. S. of quarter cor. between secs. 13 and 14, on SE. corner of steel bridge over Marrowbone Creek, top of bolt head T-rd. E.; surface of rd.	929.99
Top of hill; surface of rd.	984.2
T. 58 N., R. 29 W., W. sixteenth cor. sec. 25, 60 ft. S. and 115 ft. E. from Lone Star School, 35 ft. N. and 20 ft. E. from T-rd. E., 2 ft. W. of hedge fence, in concrete; iron post stamped "9 R S 1922 Mo"	993.7
Reference mark, 29 ft. S. 74° W. of post, on top of W. head wall of concrete culvert; chiseled square	980.771
Crossroads; surface of rd.	982.54
Small bridge; center of	1,006.3
Kidder, at NW. limits of, 0.2 mi. E. of S. cor. secs. 35 and 36, T. 58 N., R. 29 W., 50 ft. N. and 30 ft. W. from crossroads, inside fence, in root on E. side of 18-in. locust tree; copper nail	964.3
	987.31

7. NORTH ALONG WEST BORDER OF QUADRANGLE

Cameron, at N. limits of, quarter cor. between secs. 14 and 15, T. 57 N., R. 30 W., 20 ft. S. and 30 ft. W. from T-rd. E., 9 ft. W. of fence, in root (5 ft. from base) of 30-in. cottonwood tree; copper nail	993.47
Concrete culvert; top of E. end of	988.61
T. 57 N., R. 30 W., on line between secs. 10 and 11, 530 ft. N. of T-rd. W., E. of rd., at group of four maple trees, in root on N. side of 36-in. tree; copper nail	1,021.90
T. 57 N., R. 30 W., cor. secs. 2, 3, 10, and 11, 14 ft. N. and 20 ft. W. from crossroads, 13 ft. N. and 1 ft. E. from corner fence post, in concrete post; standard tablet stamped "11 R S 1922 Mo"	1,025.574

(For balance in Maysville quadrangle, see line 2.)

Trestle 183.61; top of E. rail	844.4
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Rd. crossing; top of W. rail

Feet
836.1

(For balance in Maysville quadrangle, see line 2.)

Weatherby, near W. limits of, 20 ft. S. and 108 ft. W. from Chicago, Rock Island & Pacific Ry. at rd. crossing, 3 ft. W. of fence corner, in concrete post; standard tablet stamped "14 R S 1922 Mo"

884.834

Reference mark, 70 ft. N. 25° E. of tablet, on concrete sidewalk; chiseled square

884.36

T. 59 N., R. 30 W., E. sixteenth cor. between secs. 15 and 22, SE. of T-rd. E., on top of S. end of concrete culvert; chiseled square

888.78

(For balance in Maysville quadrangle, see line 2.)

T. 59 N., R. 30 W., cor. secs. 2, 3, 10, and 11, NW. of T-rd. N., 1 ft. S. and 16 ft. W. from fence corner, in concrete post; standard tablet stamped "15 R S 1922 Mo"

895.816

Reference mark, 80 ft. S. 85° E. of tablet, on top of N. end of concrete culvert; chiseled square

894.08

Top of hill; surface of rd.

949.3

Tps. 59 and 60 N., R. 30 W., cor. secs. 2, 3, 34, and 35, NE. (? NW.) of crossroads, in root on W. side of 14-in. box-elder tree; copper nail

848.27

Top of hill; surface of rd.

896.2

T. 60 N., R. 30 W., cor. secs. 22, 23, 26, and 27, NW. of crossroads, 15 ft. N. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "16 R S 1922 Mo"

893.583

Reference mark, 72 ft. S. 35° E. of tablet, in root of 24-in. locust tree; copper nail

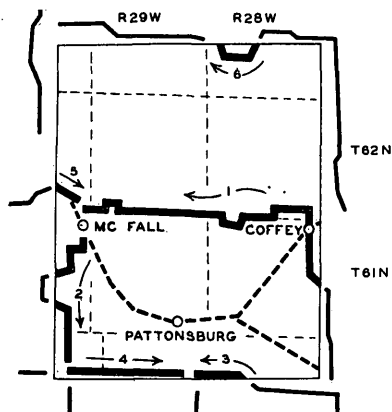
890.58

For an additional level line along Chicago, Rock Island & Pacific Ry., refer to United States Coast and Geodetic Survey second-order line, Plattsburg to Gallatin.

PATTONSBURG QUADRANGLE

(Latitude 40°00'-40°15'; longitude 94°00'-94°15')

Davies, DeKalb, Gentry, and Harrison Counties



1. FROM EAST BORDER OF QUADRANGLE WEST AND NORTH TO COFFEY, THENCE WEST TO McFall (by R. B. Steele and J. M. Rawls in 1922)
(Continued from Gilman quadrangle; see line 3.)

T. 61 N., R. 28 W., center sec. 13, in T-rd. S.; top of cornerstone Coffey, 0.8 mi. S. of, in SW 1/4 sec. 12, T. 61 N., R. 28 W., 40 ft. S. of rd. corner from E.-N., in root on N. side of 12-in. oak tree; copper nail

915.53

Coffey, at Quincy, Omaha & Kansas City R.R. sta.; top of near rail Coffey, 0.2 mi. N. of N. limits of, W. sixteenth cor. sec. 1, T. 61 N., R. 28 W., W. of T-rd. E., 5 ft. SW. of telephone pole, 1 ft. E. of fence, in top of iron pipe; bolt

923.46

T. 61 N., R. 28 W., in NW. cor. sec. 1, 100 ft. S. of T-rd. S., at NE. corner of bridge over Little Cypress Creek, on top of E. end of concrete pier; chiseled square

932.8

T-rd. W.; surface of rd.

927.62

Top of hill; surface of rd.

855.81

T. 62 N., R. 28 W., center of SW 1/4 sec. 35, SE. of T-rd. E., 1 ft. N. and 7 ft. E. from corner fence post, in concrete post; standard tablet stamped "37 R S 1922 Mo"

878.4

Reference mark, 360 ft. S. 4° W. of tablet, on top of W. end of concrete culvert; chiseled square

930.6

909.537

901.03

	Feet
Top of hill; surface of rd.	944.2
Bridge over Cypress Creek; center of	828.3
Tps. 61 and 62 N., R. 28 W., approximate quarter cor. between secs. 4 and 35, SE. of T-rd. E., 6 ft. S. of corner fence post, in concrete post; standard tablet stamped "38 R S 1922 Mo"	914.244
T-rd. W.; surface of rd.	893.9
Culvert, at center of; surface of rd.	883.1
Tps. 61 and 62 N., R. 28 W., approximate quarter cor. between secs. 5 and 32, SE. of crossroads, 120 ft. S. of rd. E., on top of E. head wall of concrete culvert; chiseled square	823.19
T. 61 N., R. 28 W., N. cor. secs. 5 and 6, N. of E. edge of T-rd. S., in concrete post; standard tablet stamped "39 R S 1922 Mo"	807.018
Reference mark, 260 ft. N. 50° W. of tablet, in root on S. side of 48-in. elm tree; copper nail	802.17
Bridge across Big Creek; center of main span	801.0
Big Creek, under bridge; surface of water at 8:30 a.m. July 28, 1922	779.0
Top of hill, at curve; surface of rd.	817.1
T-rd.; top of cornerstone	797.17
Bridge over drain; center of	787.0
Tps. 61 and 62 N., R. 29 W., cor. secs. 1, 2, 35, and 36, 10 ft. W. of fence N., on top of N. head wall of concrete culvert; chiseled square	820.05
T-rd. S.; surface of rd.	867.5
T-rd. N.; surface of rd.	872.2
T-rd. S.; surface of rd.	892.1
Tps. 61 and 62 N., R. 29 W., cor. secs. 2, 3, 34, and 35, in NW. corner of T-rd. N., 5 ft. W. of fence corner, in concrete post; standard tablet stamped "41 R S 1922 Mo"	825.620
Reference mark, 60 ft. W. of tablet, on top of rock; chiseled square	817.16
Top of ridge; surface of rd.	909.5
Bridge over Sampson Creek; center of	811.9
T. 61 N., R. 29 W., near NW. cor. sec. 4, 70 ft. E. of T-rd. N., on top of S. head wall of concrete culvert; chiseled square	858.01
Top of ridge; surface of rd.	921.8
T. 62 N., R. 29 W., center of NE 1/4 sec. 32, S. of T-rd. N., 5 ft. E. of gate to barnyard, in concrete post; standard tablet stamped "42 R S 1922 Mo"	939.940
Reference mark, 60 ft. N. 15° E. of tablet, in root on N. side of 16-in. maple tree; copper nail	940.78
T-rd.; surface of rd.	900.5
T. 62 N., R. 29 W., W. sixteenth cor. sec. 32, SE. of rd. corner from E.-S., in root on E. side of 24-in. oak tree; copper nail	846.88
T. 61 N., R. 29 W., N. cor. secs. 5 and 6, at SE. corner of T-rd. S., inside of fence, in root on N. side of 24-in. oak tree; copper nail	871.68
Top of ridge; surface of rd.	958.7
Bridge over drain; center of	891.8
T. 62 N., R. 30 W., in SE 1/4 sec. 36, NE. of T-rd. N., 5 ft. E. of fence corner, in concrete post; standard tablet stamped "43 R S 1922"	942.452
Reference mark, 50 ft. S. 45° W. of tablet, on S. end of concrete culvert; chiseled square	942.18
2. FROM McFALL SOUTH ALONG WEST BORDER OF QUADRANGLE (by R. B. Steele in 1922)	
Wabash Ry. at rd. crossing; top of E. rail	990.1
McFall, at crossing of main streets, at well, on concrete platform; chiseled square	988.14
T. 61 N., R. 30 W., near E. sixteenth cor. sec. 12, at T-rd. N., on top of boulder; chiseled square	962.57
Culvert over drain; center of	914.8
T. 61 N., R. 30 W., in SE. cor. sec. 11, at N. end of 100-ft. jog in rd., on top of S. head wall of concrete culvert; chiseled square	926.75
Top of hill; surface of rd.	950.5
(For balance in Darlington quadrangle, see line 1.)	
T. 61 N., R. 30 W., E. sixteenth cor. between secs. 26 and 35, 27 ft. N. and 21 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 74 S 1921 Mo 45 R S 1922"	854.452
Reference mark, 127 ft. S. 15° W. of tablet, at well; NE. corner of concrete platform	859.31
Bridge over Groomer Branch, on NE. corner; chiseled square	820.23
T. 61 N., R. 30 W., in SE 1/4 sec. 35, 400 ft. N. of jog in rd., in SW. corner of yard of Sam Wright, in root on N. side of 20-in. oak tree; copper nail	915.20
T. 60 N., R. 30 W., cor. secs. 10, 11, 14, and 15, in T-rd. E., on top of cornerstone; chiseled square	895.07
T. 60 N., R. 30 W., cor. secs. 14, 15, 22, and 23, 20 ft. N. and 30 ft. W. from crossroads, 5 ft. W. of 12-in. ash tree, in concrete post; standard tablet stamped "Prim Trav Sta No 70 S 1921 Mo 17 R S 1922"	946.138
Reference mark, 5 ft. S. 60° E. of tablet, in root of 12-in. ash tree; copper nail	945.48

3. FROM POINT NEAR CENTER OF EAST HALF OF SOUTH BORDER OF QUADRANGLE, WEST TO CENTER

(Continued from Winston quadrangle; see line 5.)

T. 60 N., R. 28 W., E. sixteenth cor. between secs. 17 and 20, 139 ft. S. of T-rd. S., on top of E. head wall of concrete culvert; chiseled square	<u>Feet</u> 862.01
T-rd. N.; surface of rd.	887.9
T. 60 N., R. 28 W., about 0.1 mi. W. of cor. secs. 17, 18, 19, and 20, at steel bridge over branch, on top of S. concrete head wall of E. abutment; chiseled square	835.36
T-rd. S.; surface of rd.	874.2
T. 60 N., R. 29 W., quarter cor. between secs. 13 and 24, 15 ft. S. and 29 ft. E. from crossroads, 2 ft. N. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 72 S 1921 Mo 3 R S 1922"	807.493
Reference mark, 45 ft. S. 45° W. of tablet, in root on E. side of 36-in. elm tree; copper nail	806.74
Top of hill; surface of rd.	851.0
Bottom of drain; surface of rd.	815.4
T. 60 N., R. 29 W., 770 ft. E. of quarter cor. between secs. 14 and 23, 75 ft. NW. of T-rd. S., in SE. corner of yard of John Sweeney, in root on E. side of 30-in. black locust tree; copper nail	844.85
T. 60 N., R. 29 W., quarter cor. between secs. 14 and 23, 160 ft. E. of T-rd. N., on top of S. head wall of concrete culvert; chiseled square	841.30

4. EAST ALONG WEST HALF OF SOUTH BORDER OF QUADRANGLE

Top of hill; surface of rd.	935.0
T. 60 N., R. 30 W., 15 ft. N. and 20 ft. W. from cor. secs. 13, 14, 23, and 24, NW. of crossroads, on top of N. head wall of concrete culvert; chiseled square	882.44
T. 60 N., R. 30 W., E. sixteenth cor. between secs. 13 and 24, at rd. corner from W.-N., on top of W. head wall of concrete culvert; chiseled square	840.34
T. 60 N., R. 29 and 30 W., approximate S. sixteenth cor. between secs. 13 and 18, NE. of T-rd. S., in root of 8-in. walnut tree; copper nail	876.99
T. 60 N., R. 29 W., S. sixteenth cor. between secs. 17 and 18, 20 ft. S. and 25 ft. W. from T-rd. S., 2 ft. N. and 5 ft. W. from corner of hedge fence, in concrete post; standard tablet stamped "Prim Trav Sta No 71 S 1921 Mo 18 R S 1922"	851.993
Reference mark, 55 ft. E. of tablet, in root of 6-in. hedge tree; copper nail	849.38
Quincy, Omaha & Kansas City R.R. at rd. crossing; top of E. rail	779.6
T. 60 N., R. 29 W., in SW 1/4 sec. 16, 0.3 mi. E. of Quincy, Omaha & Kansas City R.R. at rd. crossing, at SE. corner of bridge over small creek, in root of 36-in. elm tree; copper nail	770.49
T. 60 N., R. 29 W., cor. secs. 15, 16, 21, and 22, 600 ft. W. of bridge over Grindstone Creek, 35 ft. N. and 18 ft. W. from rd. corner N.-E., in concrete post; standard tablet stamped "19 R S 1922 Mo"	777.546
Reference mark, 105 ft. N. 5° W. of tablet, in root of 16-in. walnut tree; copper nail	776.16
Bridge over Grindstone Creek; center of	778.0
Grindstone Creek, under bridge; surface of water at 10 a. m. June 30, 1922	756.2
T. 60 N., R. 29 W., E. sixteenth cor. between secs. 15 and 22, SE. of crossroads, on concrete base of corner fence post; chiseled square	816.61

5. NEAR CENTER OF WEST BORDER OF QUADRANGLE (by W. R. Broadbuss in 1923)

(Continued from Darlington quadrangle; see line 4.)

T. 62 N., R. 30 W., quarter cor. between secs. 26 and 35, SW. of crossroads, in root on E. side of 24-in. walnut tree; copper nail and washer	930.27
T. 62 N., R. 30 W., cor. secs. 25, 26, 35, and 36, 35 ft. N. and 45 ft. E. from rd. junction, in root on N. side of 24-in. maple tree; copper nail and washer	947.53

6. WEST ALONG EAST PART OF NORTH BORDER OF QUADRANGLE (by F. C. Lentz in 1936)

(Continued from Bethany quadrangle; see line 6.)

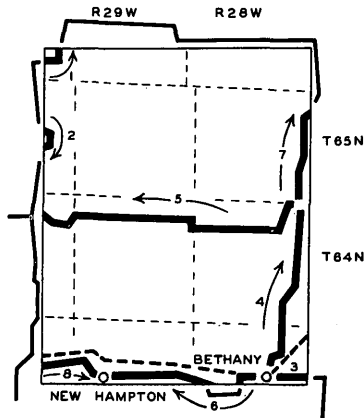
Bethany, 1.5 mi. SW. of, 50 ft. N. and 20 ft. W. from junction of U.S. Highway 69 and State Highway 4, on head wall of concrete culvert; chiseled square	843.41
Bethany, 2 mi. SW. of, along State Highway 4, 0.5 mi. W. of junction of U.S. Highway 69, at SW. corner of steel bridge over Big Creek, on top of curb rail	851.44

(Continued in Bethany quadrangle; see line 6.)

For additional level lines along Wabash Ry. and Quincy, Omaha & Kansas City R.R., refer to United States Coast and Geodetic Survey first-order line, Milan, Mo. to Hamburg, Iowa; and second-order line, Pattonsburg to Gallatin.

BETHANY QUADRANGLE
(Latitude $40^{\circ}15' - 40^{\circ}30'$; longitude $94^{\circ}00' - 94^{\circ}15'$)

Gentry, Harrison, and Worth Counties



1. IN NORTHWEST CORNER OF QUADRANGLE (by Charles E. Hunter in 1936)

Allendale, about 2.2 mi. E. of, along State Highway 46, about 200 ft. E. of junction of rd. N., on N. head wall of concrete culvert; chiseled square	Feet 1,108.42
Allendale, about 3 mi. E. of, along State Highway 46, 15 ft. N. and 105 ft. W. from junction of rd. N., on N. head wall of concrete culvert; chiseled square	1,152.35

(Continued in Mount Ayr quadrangle; see line 1.)

2. NEAR MIDDLE OF NORTH HALF OF WEST BORDER OF QUADRANGLE
(Continued from Gentry quadrangle; see line 2.)

T. 65 N., R. 30 W., in SW 1/4 sec. 23, on NE. corner of concrete step to school; chiseled square	1,120.73
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(Continued in Gentry quadrangle; see line 2.)

3. FROM SOUTHEAST CORNER OF QUADRANGLE WEST TO BETHANY (by F. C. Lentz in 1936)
(Continued from Blythedale quadrangle; see line 2.)

Bethany, 1.7 mi. E. of, along State Highway 4, 500 ft. E. of rd. S., 20 ft. S. of highway, on E. end of S. head wall of culvert; chiseled square	997.51
Junction of rd. N., on E. head wall of concrete culvert; chiseled square	1,009.50
Bethany, near E. limits of, on State Highway 4, 25 ft. S. and 10 ft. W. from junction of rd. S., on head wall of concrete culvert; chiseled square	964.86 918.607
U.S.C. & G.S. standard disk stamped "W 82 1935"	907.108
Bethany, in SW. corner of courthouse yard, 6 ft. N. and 35 ft. E. from property line, in concrete post; standard tablet stamped "847 1934"	

4. FROM BETHANY NORTH TO POINT NEAR MIDDLE OF EAST BORDER OF QUADRANGLE

Bethany, SW. of U.S. Highway 69 at Twenty-fifth Street, 7 ft. N. and 2 ft. W. from fireplug, on top of concrete curb; chiseled square	942.51
Bethany, near N. limits of, 60 ft. N. and 60 ft. E. from U.S. Highway 69 at rd. E., in root on SW. side of 28-in. white-oak tree; copper nail and washer	868.48
Bethany, 1.3 mi. N. of, along U.S. Highway 69, in top of E. end of N. pier of concrete bridge over East Fork of Big Creek; standard tablet (set by water-resources branch of U.S. Geol. Survey)	879.945
Bethany, about 2 mi. N. of, along U.S. Highway 69, 125 ft. SW. of farmhouse of Roy Bell 33 ft. NW. of highway, in concrete post; standard tablet stamped "848 C W A 1934"	979.292
Junction of rd. E., on top of N. end of concrete culvert; chiseled square	1,002.46
T. 64 N., R. 28 W., in NW 1/4 sec. 26, 250 ft. N. and 40 ft. W. from U.S. Highway 69 at rd. E., in root on N. side of triple elm tree; copper nail and washer	1,017.86
T. 64 N., R. 28 W., near center sec. 23, 20 ft. S. and 40 ft. W. from U.S. Highway 69 at cross rd., in NE. corner of concrete porch of store building; chiseled square	1,039.11

T. 64 N., R. 28 W., in SE 1/4 sec. 14, 55 ft. SW. of SW. corner of McCullum School, 30 ft. SE. of U.S. Highway 69, in root on W. side of 36-in. sycamore tree; copper nail and washer	Feet 1,040.58
T. 64 N., R. 28 W., near line between secs. 11 and 14, 25 ft. N. and 30 ft. W. from U.S. Highway 69 at rd. W., 150 ft. E. of dwelling of G. V. Hillyard, in concrete post; standard tablet stamped "849 C W A 1934"	1,042.322
T. 64 N., R. 28 W., E 1/2 sec. 11, 140 ft. S. and 20 ft. W. from U.S. Highway 69 at cross rd., on head wall of concrete culvert; chiseled square	1,030.36 1,052.80
Junction of rd. W., on S. head wall of culvert; chiseled square	
Ridgeway, 4 mi. W. of, 35 ft. N. and 25 ft. E. from junction of U.S. Highway 69 and County Route A, on head wall of concrete culvert; chiseled square	1,049.68
Tps. 64 and 65 N., R. 28 W., cor. secs. 1, 2, 35, and 36, 36 ft. N. and 42 ft. W. from U.S. Highway 69 at rd. W., 2 ft. E. of fence, in concrete post; standard tablet stamped "850 C W A 1934"	1,065.952
T. 65 N., R. 28 W., near quarter cor. between secs. 35 and 36, 200 ft. S. and 15 ft. W. from T-rd. S., 100 ft. NW. of U.S. Highway 69, on head wall of concrete culvert; chiseled square	1,051.68

(Continued in Blythedale quadrangle; see line 3.)

5. WEST THROUGH MIDDLE OF QUADRANGLE

T. 64 N., R. 28 W., near quarter cor. between secs. 10 and 11, 23 ft. N. and 234 ft. E. from rd. at fence S. and hedge fence N., 63 ft. S. and 12 ft. E. from farmhouse of Eldon Landis, in concrete post; standard tablet stamped "895 1934"	997.730
Bridge over West Fork of Big Creek, 50 ft. E. of, in root of 14-in. elm tree; bent nail	891.82
T. 64 N., R. 28 W., near quarter cor. between secs. 9 and 10, 20 ft. N. and 10 ft. E. from crossroads, on top of rock head wall of culvert; chiseled square	985.84
T. 64 N., R. 28 W., near quarter cor. between secs. 8 and 9, 20 ft. S. and 200 ft. E. from T-rd. S., in root on SE. side of 40-in. elm tree; copper nail and washer	1,029.28
T. 64 N., R. 28 W., in sec. 8, 21 ft. S. and 85 ft. E. from T-rd. N., 69 ft. N. and 21 ft. E. from NE. corner of Mahaska School, in concrete post; standard tablet stamped "894 1934"	1,059.642
Bottom of hill, 15 ft. N. of rd. at N.-S. fences, on top of E. end of head wall of concrete culvert; chiseled square	992.81
T. 64 N., R. 28 W., in NW 1/4 sec. 8, 20 ft. N. and 75 ft. E. from T-rd. S., 50 ft. SW. of SW. corner of farmhouse of R. L. Kinnison, in root of 8-in. white-oak tree; copper nail and washer	1,044.07
T. 64 N., R. 28 W., near center sec. 7, 150 ft. SW. of farmhouse of Newt Rice, 60 ft. E. of rd., in root on W. side of 14-in. walnut tree; copper nail and washer	984.11 909.68
Bridge over creek, at NW. corner of, on top of steel beam; painted square	
T. 64 N., R. 29 W., in NW 1/4 sec. 12, 55 ft. S. of rd. at top of hill, 15 ft. NW. of NW. corner of old dwelling, in root of 14-in. white-oak tree; copper nail and washer	1,002.46
T. 64 N., R. 29 W., in NW 1/4 sec. 12, 0.8 mi. N. of White Fawn School, at top of hill, 80 ft. NW. of rd. forks, 10 ft. NE. of rd., in root of twin white-oak stump; copper nail and washer	1,046.23
T. 64 N., R. 29 W., near cor. secs. 1, 2, 11, and 12, 75 ft. S. and 40 ft. E. from rd. forks, 40 ft. SW. of E. end of plank bridge, in root of leaning 14-in. willow tree; copper nail and washer	931.16
T. 64 N., R. 29 W., near quarter cor. between secs. 2 and 11, 15 ft. N. and 31 ft. W. from farmhouse of Simmie Smith, 21 ft. S. and 330 ft. W. from rd. at fence S., in concrete post; standard tablet stamped "893 1934"	976.310
T. 64 N., R. 29 W., near quarter cor. between secs. 3 and 10, 125 ft. N. of dwelling, 25 ft. S. of rd., in root of 38-in. cottonwood tree; copper nail and washer	1,127.87
T. 64 N., R. 29 W., cor. secs. 3, 4, 9, and 10, 15 ft. N. and 25 ft. E. from County Route D at E.-W. cross rd., on top at N. end of iron pipe culvert; painted square	1,078.68
Bottom of hill, 100 ft. E. of small bridge over creek, in root of 16-in. box-elder tree; bent nail	992.77
T. 64 N., R. 29 W., cor. secs. 4, 5, 8, and 9, 20 ft. S. and 235 ft. W. from crossroads, in root of 16-in. elm tree; copper nail and washer	1,065.37
T. 64 N., R. 29 W., cor. secs. 5, 6, 7, and 8, 30 ft. N. and 30 ft. W. from crossroads, 33 ft. S. and 5 ft. W. from windmill on property of G. W. Starmer, in concrete post; standard tablet stamped "892 1934"	1,025.271
T. 64 N., R. 29 W., near line between secs. 6 and 7, 550 ft. W. of T-rd. N., 100 ft. E. of wooden bridge, 30 ft. S. of rd., in root of 15-in. willow tree; copper nail and washer	941.35
T. 64 N., R. 30 W., near quarter cor. between secs. 1 and 12, 30 ft. N. and 350 ft. W. from T-rd. W., 30 ft. S. of SW. corner of farmhouse, in root of 14-in. maple tree; copper nail and washer	942.58
T. 64 N., R. 30 W., cor. secs. 1, 2, 11, and 12, 100 ft. N. and 15 ft. E. from crossroads, in root of 48-in. elm tree; copper nail and washer	973.19

6. FROM BETHANY WEST ALONG SOUTH BORDER OF QUADRANGLE TO NEW HAMPTON

Bethany, in SW. part of, 18 ft. S. and 18 ft. W. from intersection of tangents of State Highway 4 at curve from S.-E., 18 ft. S. of street, on property of William Foster, in concrete post; standard tablet stamped "846 1934"	Feet 892.029
(For balance in Pattonsburg quadrangle, see line 6.)	
Bethany, about 3.3 mi. SW. of, along State Highway 4, 70 ft. SW. of dwelling, 15 ft. N. of highway, on head wall of concrete culvert; chiseled square	945.45
Bethany, about 4.3 mi. W. of, along State Highway 4, 54 ft. N. and 27 ft. W. from farmhouse of George Jestis, 35 ft. S. of highway, in concrete post; standard tablet stamped "845 1934"	961.933
Junction of rd. N., in top of 15-in. corner fence post; bent nail	1,019.77
T. 63 N., R. 29 W., near E. sixteenth cor. between secs. 13 and 24, 30 ft. N. of State Highway 4, in root of 15-in. elm tree; copper nail and washer	975.37
T. 63 N., R. 29 W., in SW 1/4 sec. 13, 30 ft. N. and 135 ft. E. from State Highway 4 at rd. N., in root of 36-in. elm tree; copper nail and washer	1,009.99
New Hampton, 3 mi. E. of, along State Highway 4, 27 ft. N. and 20 ft. W. from junction of rd. N., 141 ft. E. of bridge over White Oak Creek, in concrete post; standard tablet stamped "844 1934"	902.317
New Hampton, about 2 mi. E. of, along State Highway 4, 15 ft. S. and 20 ft. W. from junction of County Route D, on head wall of concrete culvert; chiseled square	1,010.18
U.S.C. & G.S. standard disk stamped "S 82 1935"	938.837

7. NEAR MIDDLE OF EAST BORDER OF QUADRANGLE

T. 65 N., R. 28 W., in W 1/2 sec. 25, 30 ft. S. and 20 ft. W. from U.S. Highway 69 at rd. W., on N. end of head wall of concrete culvert; chiseled square	1,022.11
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(Continued in Blythedale quadrangle; see line 4.)

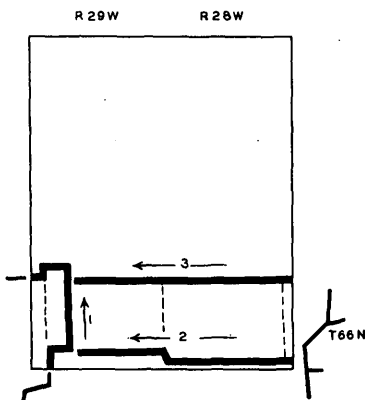
8. FROM POINT NEAR SOUTHWEST CORNER OF QUADRANGLE EAST TO NEW HAMPTON (by J. Earl Brannan in 1936)

U.S.C. & G.S. standard disk stamped "Q 82 1935"	1,039.968
New Hampton, 24 ft. S. and 33 ft. E. from State Highway 4 at Vine Street, 14 ft. N. of sidewalk, in parkway, in concrete post; standard tablet stamped "843 1934"	946.947
U.S.C. & G.S. standard disk stamped "R 82 1935"	958.213

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Darlington, Mo. to Osceola, Iowa.

MOUNT AYR QUADRANGLE*
(Latitude 40°30'-40°45'; longitude 94°00'-94°15')

Harrison and Worth Counties



1. FROM POINT IN SOUTHWEST CORNER OF QUADRANGLE NORTH TO IOWA-MISSOURI STATE LINE, THENCE WEST TO WEST BORDER (by Charles E. Hunter in 1936)
(Continued from Bethany quadrangle; see line 1.)

T. 66 N., R. 30 W., near E. quarter cor. sec. 24, 120 ft. N. and 15 ft. E. from T-rd. W. on Harrison-Worth county line, in root on NW. side of 10-in. oak tree; copper nail and washer	Feet 1,059.97
T. 66 N., Rs. 29 and 30 W., 208 ft. E. of cor. secs. 13, 18, 19, and 24 and Harrison-Worth county line, 21 ft. N. of E.-W. rd., in concrete post; standard tablet stamped "Prim Trav Sta No 63 J S 1923 Mo"	1,118.422
T. 66 N., R. 29 W., near cor. secs. 17, 18, 19, and 20, 20 ft. S. and 60 ft. W. from T-rd. N., in root on N. side of 10-in. post-oak tree; copper nail and washer	1,143.04
T-rd. W., 195 ft. N. and 20 ft. E. from, in root on E. side of 12-in. oak tree; crossed nails	1,158.32
T. 66 N., R. 29 W., near S. sixteenth cor. between secs. 7 and 8, about 100 ft. SW. of small steel bridge, 15 ft. W. of rd., in root on S. side of 14-in. black-walnut tree; copper nail and washer	1,008.30
T. 66 N., R. 29 W., cor. secs. 5, 6, 7, and 8, 20 ft. N. and 15 ft. W. from stone at crossroads, 18 ft. S. and 24 ft. E. from Hermix Store, in concrete post; standard tablet stamped "841 C W A 1934"	997.779
T. 67 N., R. 29 W., S. cor. secs. 31 and 32, 140 ft. N. and 45 ft. W. from T-rd. N., in root on E. side of twin 10-in. elm tree; copper nail and washer	1,040.36
T. 67 N., R. 29 W., N. cor. secs. 31 and 32, 3 ft. S. and 17 (? 25) ft. E. from rd. at former fence line E. on Iowa-Mo. State line, on top of prominent hill, in concrete post; standard tablet stamped "842 C W A 1934"	1,130.238
T. 66 N., R. 29 W., near NW. cor. sec. 6, 140 ft. S. and 50 ft. E. from T-rd. E., in barnyard, in root on W. side of 22-in. oak tree; copper nail and washer	1,048.89
T-rd. W., 30 ft. N. and 18 ft. E. from, in root on W. side of 8-in. elm stump; crossed nails	1,137.37
T. 67 N., R. 30 W., in sec. 36, 35 ft. N. and 190 ft. E. from T-rd. S., in barnyard, in root on S. side of twin 8-in. oak tree; copper nail and washer	1,123.07

(Continued in Blockton quadrangle; see line 1.)

2. WEST ALONG SOUTH BORDER OF QUADRANGLE (by F. C. Lentz in 1937)

T. 66 N., R. 28 W., near line between secs. 24 and 25, 0.8 mi. W. of U.S. Highway 69, 160 ft. E. of small bridge, 16 ft. S. of rd., in root of 8-in. walnut tree; copper nail and washer	998.80
Top of hill, 30 ft. N. of rd., in fence line, in root on S. side of 12-in. ash tree; bent nail	1,093.83
T. 66 N., R. 28 W., cor. secs. 23, 24, 25, and 26, 450 ft. S. of rd. corner E.-S., 20 ft. W. of rd. at top of hill, in root of 14-in. white-oak tree; copper nail and washer	1,055.72
T. 66 N., R. 28 W., near quarter cor. between secs. 23 and 26, 65 ft. E. of rd., in root of 14-in. hedge tree; copper nail and washer	1,048.48

*The greater part of this quadrangle lies in Iowa.

T. 66 N., R. 28 W., in N 1/2 sec. 27, 500 ft. N. of steel bridge, 600 ft. W. of old barn, 100 ft. W. of creek, 150 ft. E. of N.-S. fence, in root on SE. side of 38-in. elm tree; crossed nails.	Feet 963.93
T. 66 N., R. 28 W., cor. secs. 21, 22, 27, and 28, 200 ft. S. and 30 ft. W. from rd. corner S.-W., in root on E. side of 30-in. willow tree; copper nail and washer	999.52
T. 66 N., R. 28 W., 155 ft. W. of E. sixteenth cor. between secs. 21 and 28, 30 ft. S. of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 66 J S 1923 Mo"	1,094.595
T. 66 N., R. 28 W., cor. secs. 20, 21, 28, and 29, 16 ft. S. and 22 ft. E. from crossroads, on concrete head wall; chiseled square	1,073.88
T. 66 N., R. 28 W., cor. secs. 19, 20, 29, and 30, 30 ft. N. and 600 ft. E. from crossroads, in root on S. side of 40-in. cottonwood tree; copper nail and washer	1,109.07
T. 66 N., Rs. 28 and 29 W., cor. secs. 19, 24, 25, and 30, W. of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 65 J S 1923 Mo"	1,130.021
T. 66 N., Rs. 28 and 29 W., 0.3 mi. S. of cor. secs. 13, 18, 19, and 24, at bottom of drain, 45 ft. E. of rd., in root on SW. side of 16-in. willow tree; copper nail and washer	1,084.30
T. 66 N., R. 29 W., 0.3 mi. E. of cor. secs. 13, 14, 23, and 24, 200 ft. E. of small bridge, 30 ft. N. of rd., in root of 16-in. elm tree; copper nail and washer	1,036.39
Bottom of drain, at NE. corner of small bridge, in root on N. side of 18-in. elm tree; crossed nails	1,036.14
T. 66 N., R. 29 W., near line between secs. 14 and 23, 35 ft. N. of rd. at top of hill, 35 ft. S. and 12 ft. E. from SE. corner of dwelling, in root on S. side of 16-in. pine tree; copper nail and washer	1,137.42
T. 66 N., R. 29 W., cor. secs. 14, 15, 22, and 23, 495 ft. E. of crossroads, 20 ft. S. of rd., in root on SW. side of 12-in. elm tree; copper nail and washer	1,121.83
Allendale, about 1.7 mi. N. of, along County Route T, cor. secs. 15, 16, 21, and 22, T. 66 N., R. 29 W., 36 ft. N. and 24 ft. W. from old crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 64 J S 1923 Mo"	1,119.448
T. 66 N., R. 29 W., cor. secs. 16, 17, 20, and 21, 70 ft. N. and 20 ft. E. from crossroads, in root on NW. side of 16-in. elm tree; copper nail and washer	1,115.15
Top of hill, in front of dwelling, in root of 18-in. maple tree; crossed nails	1,191.71

3. FROM EAST BORDER OF QUADRANGLE, ABOUT 1 MILE SOUTH OF IOWA-MISSOURI STATE LINE, WEST TO POINT NEAR WEST BORDER
(Continued from Lamoni quadrangle; see line 3.)

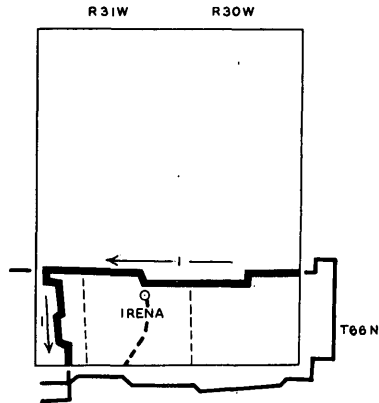
Tps. 66 and 67 N., Rs. 27 and 28 W., cor. of, 25 ft. S. and 20 ft. E. from crossroads, on concrete head wall; chiseled square	1,083.50
T. 66 N., R. 28 W., near N. quarter cor. sec. 1, 20 ft. N. and 80 ft. E. from T-rd. S., 18 ft. E. of T-fence N., in root of 12-in. hedge tree; copper nail and washer	1,095.51
T. 66 N., R. 28 W., near N. cor. secs. 1 and 2, 20 ft. N. of T-rd. S., 75 ft. SE. of SE. corner of dwelling owned by W. A. Gruenwolf, in concrete post; standard tablet stamped "855 1934"	1,108.798
Tps. 66 and 67 N., R. 28 W., approximate quarter cor. between secs. 2 and 35, 60 ft. E. of E. end of small steel bridge, 25 ft. N. of rd., in root of 14-in. elm tree; copper nail and washer	999.54
T. 66 N., R. 28 W., near N. quarter cor. sec. 3, 35 ft. N. and 250 ft. W. from T-rd. S., 100 ft. SW. of dwelling, in root of 12-in. maple tree; copper nail and washer	1,108.20
T. 67 N., R. 28 W., near S. cor. secs. 33 and 34, 185 ft. N. and 45 ft. W. from T-rd. N., on SE. corner of concrete porch of High Point School; chiseled square	1,124.57
Tps. 66 and 67 N., R. 28 W., approximate quarter cor. between secs. 4 and 33, 120 ft. N. of rd., on SE. corner of bottom step of church; chiseled square	1,109.31
T. 66 N., R. 28 W., about 400 ft. E. of N. cor. secs. 4 and 5, 35 ft. NE. of small bridge, 25 ft. N. of rd., in root of 14-in. walnut tree; copper nail	1,006.21
T. 66 N., R. 28 W., 0.2 mi. W. of N. cor. secs. 4 and 5, 60 ft. SW. of dwelling of P. J. Kinder, 40 ft. N. of rd., in concrete post; standard tablet stamped "856 1934"	1,057.642
T. 66 N., R. 28 W., near N. cor. secs. 5 and 6, 15 ft. S. and 65 ft. W. from T-rd. S., in root of 24-in. elm tree; copper nail and washer	1,100.26
Tps. 66 and 67 N., Rs. 28 and 29 W., cor. of, 30 ft. N. and 600 ft. W. from T-rd. S., in root on SW. side of 36-in. maple tree; copper nail and washer	1,154.94
T. 66 N., R. 29 W., N. cor. secs. 1 and 2, 33 ft. N. and 440 ft. E. from T-rd. S., 110 ft. S. of dwelling of F. Butler, 36 ft. S. of gate, in concrete post; standard tablet stamped "857 1934"	1,162.979
T. 67 N., R. 29 W., near S. quarter cor. sec. 35, 10 ft. S. and about 50 ft. W. from T-rd. N., in root on N. side of 8-in. oak tree; copper nail and washer	1,082.43
T. 66 N., R. 29 W., 0.2 mi. S. of N. cor. secs. 2 and 3, 50 ft. N. of rd. corner S.-NW., 100 ft. NE. of dwelling of Walter Mathis, in concrete post; standard tablet stamped "858 1934"	1,141.264 1,000.40
Bridge over Lost Creek, at SE. corner of, in girder; top of bolt	
Tps. 66 and 67 N., R. 29 W., near line between secs. 3 and 34, 30 ft. N. and 85 ft. E. from T-rd. N., in root on NW. side of 45-in. maple tree; copper nail and washer	1,041.27

Tps. 66 and 67 N., R. 29 W., near line between secs. 4 and 33, 0.2 mi. E. of T-rd. N., at top of hill, 30 ft. N. of rd., in root of 14-in. pine tree; copper nail and washer
 Turkey Grove School, 75 ft. S. of SE. corner of, near line between secs. 5 and 32, Tps. 66 and 67 N., R. 29 W., 45 ft. N. of rd., on NE. corner of concrete base of pump; chiseled square

Feet
 1,123.49
 1,108.51

BLOCKTON QUADRANGLE *
 (Latitude 40°30'-40°45'; longitude 94°15'-94°30')

WORTH COUNTY



1. FROM EAST BORDER OF QUADRANGLE WEST, NEAR IOWA-MISSOURI STATE LINE, TO POINT NEAR WEST BORDER, THENCE SOUTH TO SOUTH BORDER (by Charles E. Hunter in 1936)
 (Continued from Mount Ayr quadrangle; see line 1.)

T. 67 N., R. 30 W., in sec. 35, 15 ft. S. and 25 ft. E. from T-rd. S., in concrete post; standard tablet stamped "2 H 1936" 993.638
 Reference mark 1, 20 ft. N. and 55 ft. E. from T-rd. S., in root on SW. side of 18-in. oak tree; copper nail and washer 993.95
 Reference mark 2, 20 ft. N. and 15 ft. W. from T-rd. S., in root on N. side of 6-in. elm tree; copper nail and washer 990.68
 T. 67 N., R. 30 W., near quarter cor. between secs. 34 and 35, 15 ft. S. and 15 ft. W. from T-rd. N., on W. end of iron pipe culvert; painted square 983.08
 T. 67 N., R. 30 W., near quarter cor. between secs. 33 and 34, 15 ft. S. and 35 ft. E. from County Route T at rd. E., in root on W. side of 7-in. elm tree; copper nail and washer 1,093.55
 County Route T at rd. W., on E. end of iron pipe culvert; painted square 1,029.80
 T. 67 N., R. 30 W., in SW 1/4 sec. 33, 15 ft. N. of rd., in root on SW. side of 10-in. walnut tree; copper nail and washer 1,107.85
 Irena, 0.5 mi. N., thence 3.8 mi. E. from, near W. sixteenth cor. on N. line sec. 5, T. 66 N., R. 30 W., 22 ft. S. and 580 ft. E. from T-rd. S., in concrete post; standard tablet stamped "768 0 W A 1934" 1,062.193
 Irena, 0.5 mi. N., thence 3 mi. E. from, near N. quarter cor. sec. 6, T. 66 N., R. 30 W., 15 ft. N. and 5 ft. E. from T-rd. S., in root on W. side of 22-in. maple tree; copper nail and washer 1,024.21
 Irena, 0.5 mi. N., thence 2.2 mi. E. from, near E. sixteenth cor. on N. line sec. 1, T. 66 N., R. 31 W., 15 ft. S. and about 300 ft. E. from T-rd. S., in root on W. side of 16-in. oak tree; copper nail and washer 1,068.07
 Irena, 0.5 mi. N., thence 1.5 mi. E. from, near N. cor. secs. 1 and 2, T. 66 N., R. 31 W., 25 ft. S. and 15 ft. W. from T-rd. S., in root on E. side of twin 8-in. elm tree; copper nail and washer 1,005.23
 Irena, 0.5 mi. N., thence 1 mi. E. from, near S. quarter cor. sec. 35, T. 67 N., R. 31 W., 90 ft. S. and 285 ft. E. from T-rd. N., in root on W. side of 14-in. oak tree; copper nail and washer 1,086.73
 Irena, 0.5 mi. N. of, along U.S. Highway 169, near S. quarter cor. sec. 34, T. 67 N., R. 31 W., 26 ft. N. and 36 ft. W. from cross rd., in concrete post; standard tablet stamped "767 C W A 1934" 1,129.804
 U.S.C. & G.S. standard disk stamped "A 71 1935" 1,162.553
 U.S.C. & G.S. standard disk stamped "N 105 1935" 1,171.166
 Irena, 1.5 mi. N., thence 1.2 mi. W. from, 0.3 mi. W. of N. cor. secs. 32 and 33, T. 67 N., R. 31 W., 18 ft. S. of rd. on Iowa-Mo. State line, in concrete post; standard tablet stamped "766 C W A 1934" 1,134.352
 T-rd. N., 85 ft. S. and 400 ft. E. from, in root on NE. side of 24-in. oak tree; crossed nails 1,067.60
 T. 67 N., R. 31 W., near N. cor. secs. 31 and 32, about 300 ft. S. and 15 ft. W. from, near rd. corner on Iowa-Mo. State line, in farmyard, in root on N. side of twin 20-in. oak tree; copper nail and washer 1,020.97

* The greater part of this quadrangle lies in Iowa.

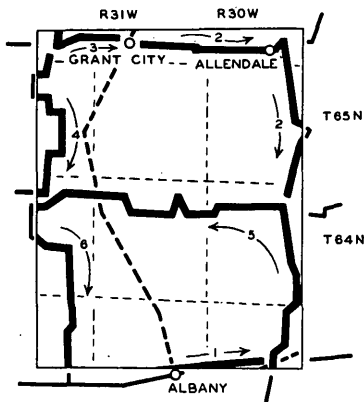
T. 67 N., R. 31 W., near N. quarter cor. sec. 31, 50 ft. N. and 100 ft. E. from rd. corner on Iowa-Mo. State line, in root on SW. side of 18-in. oak tree; copper nail and washer	Feet 983.62
T. 67 N., R. 32 W., near N. quarter cor. sec. 36, 40 ft. S. and 25 ft. E. from T-rd. S., on Iowa-Mo. State line, in root on NE. side of 20-in. maple tree; copper nail and washer	999.93
T-rd. S., 20 ft. S. and 15 ft. W. from, in root on NW. side of 20-in. oak tree; crossed nails	1,057.70
T. 67 N., R. 32 W., near N. quarter cor. sec. 35, 35 ft. S. and 28 ft. W. from T-rd. S. on Iowa-Mo. State line, in concrete post; standard tablet stamped "761 C W A 1934"	1,110.837
T. 67 N., R. 32 W., near S. quarter cor. sec. 35, 20 ft. S. and 55 ft. E. from T-rd. N., in base on N. side of corner fence post; spike	989.10
T. 67 N., R. 32 W., near S. cor. secs. 35 and 36, 105 ft. N. and 20 ft. W. from T-rd. N., in root on W. side of 12-in. walnut tree; copper nail and washer	984.48
T. 66 N., R. 32 W., near quarter cor. between secs. 1 and 2, at W. end of N. seat of steel bridge over drainage ditch, on northwesternmost rivet; chiseled cross	973.74
T. 66 N., R. 32 W., cor. secs. 1, 2, 11, and 12, 525 ft. N. and 90 ft. E. from crossroads, in root on SW. side of 36-in. maple tree; copper nail and washer	995.90
T. 66 N., R. 32 W., in SE 1/4 sec. 11, 19 ft. N. and 200 ft. E. from rd. corner E.-S., in concrete post; standard tablet stamped "760 C W A 1934"	1,116.824
T. 66 N., R. 32 W., in E 1/2 sec. 14, 25 ft. E. of rd., in root on W. side of 28-in. maple tree; copper nail and washer	1,113.23
T-rd. N., 20 ft. N. and 60 ft. W. from, in root on S. side of 14-in. elm tree; crossed nails	1,083.81
T. 66 N., R. 32 W., near quarter cor. between secs. 14 and 23, 90 ft. N. and 120 ft. E. from T-rd. S., in root on S. side of 16-in. elm tree; copper nail and washer	1,094.95

(Continued in Gentry quadrangle; see line 3.)

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Menlo, Iowa to Darlington, Mo.

GENTRY QUADRANGLE
(Latitude 40°15'-40°30'; longitude 94°15'-94°30')

Gentry and Worth Counties



1. FROM ALBANY EAST ALONG SOUTH BORDER OF QUADRANGLE (by Charles E. Hunter in 1936)
(Continued from Darlington quadrangle; see line 6.)

Albany, 0.2 mi. N., thence 0.3 mi. E. from, along State Highway 4, 30 ft. S. and 240 ft. E. from junction of rd. S., in concrete post; standard tablet stamped "751 1934"	927.102
State Highway 4 at rd. S., 225 ft. E. of, on N. head wall of concrete culvert; chiseled square	973.06
Albany, about 1.6 mi. E. of, along State Highway 4, 15 ft. N. and 15 ft. E. from junction of rd. N., on N. head wall of concrete culvert; chiseled square	962.56
Albany, about 2.6 mi. E. of, along State Highway 4, 30 ft. N. and 15 ft. E. from junction of rd. N., on E. head wall of concrete culvert; chiseled square	909.70
State Highway 4 at rd. S., 30 ft. N. and 30 ft. W. from, on N. head wall of concrete culvert; chiseled square	944.13

T. 63 N., R. 30 W., near quarter cor. between secs. 15 and 16, 40 ft. S. and 27 ft. W. from State Highway 4 at rd. S., 33 ft. N. of Chicago, Burlington & Quincy R.R., in concrete post; standard tablet stamped "834 1934"	Feet 984.667
2. FROM GRANT CITY EAST ALONG NORTH BORDER OF QUADRANGLE TO NORTH-EAST CORNER, THENCE SOUTH TO MIDDLE OF EAST BORDER	
U.S.C. & G.S. standard disk stamped "Grant City 1934"	1,135.624
Grant City, 100 ft. NE. of public school, 30 ft. N. of N. rail of Chicago, Burlington & Quincy R.R., in concrete post; standard tablet stamped "Prim Trav Sta No 60 J S 1923 Mo"	1,125.080
U.S. Highway 169 at junction of State Highway 46, on S. head wall of concrete culvert; chiseled square	1,114.34
Grant City, about 1.5 mi. E. of, along State Highway 46, at bridge over Middle Fork of Grand River, on top of SW. concrete pier; chiseled cross	953.34
State Highway 46 at rd. S., 15 ft. N. and 75 ft. W. from, on N. head wall of concrete culvert; chiseled square	1,005.73
Grant City, about 2.4 mi. E. of, along State Highway 46, 25 ft. S. and 15 ft. E. from cross rd., on head wall of concrete culvert; chiseled square	1,081.58
Grant City, about 3.2 mi. E. of, along State Highway 46, 30 ft. N. and 15 ft. E. from cross rd., in E. head wall of concrete culvert; standard tablet stamped "I H 1936"	1,029.886
Grant City, about 4 mi. E. of, along State Highway 46, on N. head wall of concrete culvert; chiseled square	945.50
Grant City, about 4.9 mi. E. of, along State Highway 46, 25 ft. N. and 255 ft. W. from junction of rd. N., on E. end of N. head wall of concrete culvert; chiseled cross	944.00
Allendale, about 1.2 mi. W. of, along State Highway 46, 20 ft. N. and 280 ft. E. from junction of rd. S., on N. head wall of concrete culvert; chiseled square	965.25
State Highway 46 at rd. N., 15 ft. N. and 95 ft. W. from, on N. head wall of concrete culvert; chiseled square	986.94
Allendale, in SW. corner of, 15 ft. N. of State Highway 46 at rd. S., 20 ft. E. of driveway to garage, on concrete curb; chiseled square	1,063.39
Allendale, 0.5 mi. N. of, near cor. secs. 21, 22, 27, and 28, T. 66 N., R. 30 W., 24 ft. N. and 32 ft. W. from T-rd. S., 60 ft. S. of dwelling of James Miller, in concrete post; standard tablet stamped "Prim Trav Sta 62 J S 1923 Mo"	1,076.582
Allendale, at E. limits of, 50 ft. S. and 200 ft. W. from State Highway 46 at street W., on N. head wall of concrete culvert; chiseled square	1,008.00
State Highway 46 at rd. S., on E. head wall of concrete culvert; chiseled square	1,023.44
Allendale, about 1.5 mi. E. of, along State Highway 46, 35 ft. S. and 20 ft. W. from cross rd., in concrete post; standard tablet stamped "840 1934"	1,063.864
Reference mark, 15 ft. N. and 18 ft. W. from tablet, on S. head wall of concrete culvert; chiseled square	1,064.20
Allendale, about 0.5 mi. S. and 1.5 mi. E. from, in sec. 35, T. 66 N., R. 30 W., 10 ft. N. and 60 ft. E. from T-rd. N., on N. end of iron pipe culvert; painted square	1,064.15
Allendale, about 1 mi. S. and 1.8 mi. E. from, near E. sixteenth cor. on S. line sec. 35, T. 66 N., R. 30 W., 20 ft. N. and 120 ft. W. from T-rd. N., in root on NE. side of twin 16-in. oak tree; copper nail and washer	1,078.46
T-rd. E., 80 ft. N. and 15 ft. W. from, in root on E. side of 12-in. oak tree; crossed nails	1,071.47
T-rd. N., 20 ft. S. and 20 ft. W. from, in root on N. side of 14-in. oak tree; crossed nails	1,137.88
T. 65 N., R. 30 W., cor. secs. 2, 3, 10, and 11, 40 ft. S. and 25 ft. W. from rd. at fence, in concrete post; standard tablet stamped "839 1934"	1,094.655
T. 65 N., R. 30 W., near S. sixteenth cor. between secs. 10 and 11, 340 ft. S. and 10 ft. W. from T-rd. W., on W. end of iron pipe culvert; painted square	1,064.20
T. 65 N., R. 30 W., near N. sixteenth cor. between secs. 14 and 15, 100 ft. S. of T-rd. W., on W. end of N. cross beam of steel bridge; northwesternmost bolt head	988.58
T. 65 N., R. 30 W., cor. secs. 14, 15, 22, and 23, 40 ft. N. and 15 ft. E. from T-rd. N., in fence line, in root on W. side of 18-in. elm tree; copper nail and washer	1,026.21
(For balance in Bethany quadrangle, see line 2.)	
T. 65 N., R. 30 W., cor. secs. 22, 23, 26, and 27, 25 ft. E. of fence corner, in concrete post; standard tablet stamped "838 1934"	1,101.445
Crossroads, 15 ft. N. and 15 ft. W. from, on N. end of iron pipe culvert; painted square	1,104.48
T. 65 N., R. 30 W., cor. secs. 26, 27, 34, and 35, 35 ft. N. and 12 ft. E. from crossroads, on N. end of concrete baffle wall; chiseled square	1,054.19
T-rd. E., 65 ft. N. and 20 ft. W. from, in root on E. side of 12-in. walnut tree; crossed nails	1,093.30
T. 65 N., R. 30 W., near S. cor. secs. 34 and 35, 10 ft. N. and 70 ft. W. from T-rd. N., 10 ft. N. and 10 ft. E. from T-rd. S., on N. end of iron pipe culvert; painted square	1,017.67
T. 64 N., R. 30 W., near E. sixteenth cor. between secs. 3 and 10, 30 ft. S. and 100 ft. E. from rd. corner S.-E., in concrete post; standard tablet stamped "837 O W A 1934"	978.000
Reference mark, 60 ft. S. and 150 ft. W. from tablet, in root on S. side of 30-in. oak tree; copper nail and washer	967.73

3. FROM NORTHWEST CORNER OF QUADRANGLE EAST TO GRANT CITY
(Continued from Blockton quadrangle; see line 1.)

Grant City, about 4.5 mi. W. of, along State Highway 46, 15 ft. N. and 70 ft. E. from junction of rd. N., on N. end of tile culvert; painted square	Feet 1,124.16
T. 66 N., R. 32 W., E. sixteenth cor. between secs. 26 and 35, 60 ft. NE. of dwelling of I. W. Faubion, 18 ft. S. of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 59 J S 1923 Mc"	1,103.738
Reference mark, 100 ft. N. and 15 ft. W. from tablet, in root on S. side of 18-in. elm tree; copper nail and washer	1,092.50
T. 66 N., Rs. 31 and 32 W., cor. secs. 25, 30, 31, and 36, 15 ft. S. and 200 ft. W. from crossroads, in root on N. side of 12-in. walnut tree; copper nail and washer	1,001.80
Grant City, about 1.5 mi. W. of, along State Highway 46, 20 ft. N. and 25 ft. W. from cross rd., on N. head wall of concrete culvert; chiseled square	978.78
Grant City, 345 ft. N. of entrance to cemetery, in center of concrete driveway, in concrete post; U.S.C. & G.S. standard disk (magnetic sta.)	1,102.849

4. SOUTH ALONG NORTH HALF OF WEST BORDER OF QUADRANGLE

T. 66 N., R. 32 W., near S. cor. secs. 35 and 36, 145 ft. N. and 15 ft. W. from T-rd. N., in root on SE. side of 6-in. locust tree; copper nail and washer	1,096.44
T-rd. W., 20 ft. N. and 20 ft. E. from, in base of telephone pole; spike	1,095.56
T. 65 N., R. 32 W., in S 1/2 sec. 3, 25 ft. S. and 6 ft. W. from rd. at fences N.-S., in concrete post; standard tablet stamped "759 C W A 1934"	1,088.104
T. 65 N., R. 32 W., near S. sixteenth cor. between secs. 3 and 4, 15 ft. N. and 625 ft. E. from T-rd. S., in root on S. side of 12-in. willow tree; copper nail and washer	1,063.32
T. 65 N., R. 32 W., near quarter cor. between secs. 9 and 10, 190 ft. S. and 3 ft. E. from T-rd. N., in root on W. side of 20-in. cottonwood tree; copper nail and washer	1,083.54
T-rd. E., 10 ft. S. and 20 ft. W. from, in root on NW. side of 8-in. elm tree; crossed nails	1,103.12

(For balance in Parnell quadrangle, see line 8.)

T. 65 N., R. 32 W., cor. secs. 15, 16, 21, and 22, 4 ft. S. and 33 ft. W. from T-rd. E., in concrete post; standard tablet stamped "758 C W A 1934"	1,129.211
T. 65 N., R. 32 W., cor. secs. 14, 15, 22, and 23, 18 ft. N. and 75 ft. W. from T-rd. S., in root on SW. side of 18-in. walnut tree; copper nail and washer	983.23
T. 65 N., R. 32 W., cor. secs. 22, 23, 26, and 27, 50 ft. S. and 20 ft. W. from crossroads, in root on E. side of 20-in. oak tree; copper nail and washer	983.37
T. 65 N., R. 32 W., cor. secs. 26, 27, 34, and 35, 0.2 mi. W. of crossroads, 20 ft. N. of rd., in concrete post; standard tablet stamped "757 C W A 1934"	1,053.515
T. 65 N., R. 32 W., cor. secs. 27, 28, 33, and 34, 30 ft. NW. of rd. corner, in root on SE. side of 6-in. cherry tree; copper nail and washer	1,024.45
T-rd. W., 30 ft. N. and 12 ft. E. from, in top of telephone-pole stump; crossed nails	1,050.94
T. 65 N., R. 32 W., near S. cor. secs. 33 and 34, 40 ft. S. and 25 ft. E. from rd., in hedge stump; copper nail and washer	1,038.30
T. 64 N., R. 32 W., near S. sixteenth cor. between secs. 3 and 4, 120 ft. N. and 180 ft. W. from T-rd. N., on W. leg of windmill; bolt head	1,022.58

(Continued in Parnell quadrangle; see line 6.)

5. NORTH ALONG SOUTH HALF OF EAST BORDER OF QUADRANGLE, THENCE WEST THROUGH CENTER TO WEST BORDER (levelled once by J. Earl Brannan in 1935 and once by Charles E. Hunter in 1936)
(Continued from Darlington quadrangle; see line 7.)

T. 63 N., R. 30 W., cor. secs. 15, 16, 21, and 22, about 700 ft. N. of T-rd. N., 58 ft. N. and 25 ft. W. from farmhouse W. of rd., in root on E. side of 15-in. locust tree; copper nail and washer	1,013.01
Culvert, on N. end of head wall; chiseled square	1,007.40
T. 63 N., R. 30 W., near N. sixteenth cor. between secs. 14 and 15, about 374 ft. N. and 20 ft. E. from State Highway 4 at rd. N., in root on W. side of 12-in. wild-cherry tree; copper nail and washer	1,052.42
Bridge, 40 ft. W. of, 10 ft. N. of branch, in root on E. side of 30-in. elm tree; copper nail and washer	948.88
T. 63 N., R. 30 W., near quarter cor. between secs. 10 and 11, 60 ft. S. and 40 ft. W. from T-rd. W., in root on E. side of twin maple tree; copper nail and washer	1,021.20
T-rd. E., 135 ft. N. and 100 ft. E. from, in root on N. side of 24-in. elm tree; copper nail and washer	994.26
T. 63 N., R. 30 W., in NE 1/4 sec. 3, 84 ft. N. and 20 ft. E. from rd. at fences, in concrete post; standard tablet stamped "T T 835 C W A 1934"	975.145

Tps. 63 and 64 N., R. 30 W., approximate cor. secs. 2, 3, 34, and 35, 300 ft. N. and 50 ft. W. from T-rd. W. (? E.), in root on S. side of 24-in. elm tree; copper nail and washer	Feet 1,017.89
Rd. corner, 280 ft. N. and 20 ft. W. from, in root of 15-in. elm tree; copper nail and washer	1,013.86
T. 64 N., R. 30 W., in N 1/2 sec. 34, 60 ft. W. of SE. corner of Carter Cemetery, at rd. forks, in root on E. side of 20-in. black-oak tree; copper nail and washer	1,056.52
Bridge, at SE. corner of, in bridge cap; copper nail and washer	955.83
T. 64 N., R. 30 W., in sec. 27, 90 ft. N. and 50 ft. E. from T-rd. S., in root on N. side of 10-in. hickory tree; copper nail and washer	945.90
T. 64 N., R. 30 W., in SW 1/4 sec. 26, 75 ft. S. of dwelling of James Stineman, 30 ft. N. of rd., 430 ft. E. of fence, in concrete post; standard tablet stamped "T T 836 C W A 1934"	934.306
T. 64 N., R. 30 W., in SE 1/4 sec. 22, 70 ft. N. and 100 ft. E. from rd. corner S.-W. (? E.), in root on S. side of walnut tree; copper nail and washer	1,001.66
Rd. corner from W.-N., 30 ft. N. and 90 ft. W. from, in root on N. side of 30-in. elm tree; copper nail and washer	1,017.26
T. 64 N., R. 30 W., cor. secs. 14, 15, 22, and 23, 125 ft. N. and 500 ft. E. from crossroads, at Lone Star, 15 ft. S. of SW. corner of church, in root on W. side of 36-in. elm tree; copper nail and washer	1,065.47
Rd. corner from E.-N., 15 ft. N. and 40 ft. E. from, in top of 30-in. elm stump; crossed nails	1,058.04
T. 64 N., R. 30 W., near E. sixteenth cor. sec. 15, 130 ft. N. and 15 ft. W. from T-rd. W., in root on E. side of 24-in. oak tree; copper nail and washer	1,071.04
T-rd. E., about 150 ft. N. and 15 ft. E. from, in root on E. side of 10-in. walnut tree; crossed nails	954.73
T-rd. E., about 180 ft. S. and 15 ft. W. from, in root on E. side of 24-in. elm tree; crossed nails	956.85
T-rd. N., 25 ft. S. and 30 ft. W. from, in root on N. side of 30-in. maple tree; crossed nails	924.33
T. 64 N., R. 30 W., near cor. secs. 3, 4, 9, and 10, about 180 ft. S. and 20 ft. E. from crossroads, in root on W. side of 18-in. elm tree; copper nail and washer	936.92
Wooden bridge over drain, about 20 ft. N. and 70 ft. E. from, in root on SW. side of 10-in. elm tree; crossed nails	923.10
T. 64 N., R. 30 W., cor. secs. 4, 5, 8, and 9, 33 ft. S. and 36 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 756 C W A 1934"	984.248
Wooden bridge over drain, about 20 ft. N. and 210 ft. E. from, in root on S. side of 30-in. elm tree; crossed nails	910.67
Rd. at N.-S. fences, 15 ft. N. and 60 ft. E. from, in root on SE. side of 6-in. elm tree; copper nail and washer	923.01
T-rd. N., 20 ft. S. of, at corner post of T-fence S.; surface of ground	892.4
T. 64 N., R. 30 W., near W. sixteenth cor. between secs. 6 and 7, about 160 ft. S. and 50 ft. W. from T-rd. E., in root on W. side of 12-in. elm tree; copper nail and washer	892.33
T. 64 N., R. 30 W., in NW 1/4 sec. 7, 20 ft. S. of rd., in concrete post; standard tablet stamped "T T 755 C W A 1934"	885.275
Rd. at W. edge of creek, 220 ft. S. of fence, in stump; crossed nails	880.18
T. 64 N., R. 31 W., 0.3 mi. W. of E. cor. secs. 12 and 13, 15 ft. S. of rd., in root on N. side of twin walnut tree; copper nail and washer	879.99
Dwelling, 30 ft. S. of, about 30 ft. N. of rd., in root on S. side of 24-in. maple tree; crossed nails	880.60
T. 64 N., R. 31 W., near E. sixteenth cor. between secs. 11 and 14, 15 ft. S. and 40 ft. W. from crossroads, in root on N. side of 12-in. cherry tree; copper nail and washer	891.54
Rd., about 20 ft. N. of, in root on S. side of 14-in. locust tree; crossed nails	953.56
T. 64 N., R. 31 W., cor. secs. 10, 11, 14, and 15, 22 ft. S. and 70 ft. W. from T-rd. N., in concrete post; standard tablet stamped "T T 754 C W A 1934"	1,005.209
T-rd. S., about 30 ft. S. and 900 ft. E. from, in root on N. side of 30-in. maple tree; crossed nails	1,025.55
T. 64 N., R. 31 W., 35 ft. S. and 50 ft. E. from cor. secs. 9, 10, 15, and 16, in root on N. side of 18-in. oak tree; copper nail and washer	990.02
Old dwelling, 60 ft. SE. of, about 50 ft. N. of rd., in root on S. side of 15-in. ash tree; crossed nails	960.80
T. 64 N., R. 31 W., near S. sixteenth cor. between secs. 8 and 9, 90 ft. W. of rd., in root on E. side of 12-in. locust tree; copper nail and washer	992.74
Schoolyard, in SE. corner of, about 35 ft. W. of rd., in root on E. side of 24-in. silver-maple tree; crossed nails	1,015.03
T. 64 N., R. 31 W., cor. secs. 4, 5, 8, and 9, 30 ft. S. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 753 C W A 1934"	1,016.118
Wooden bridge, about 200 ft. W. of, 25 ft. S. of rd., in root on W. side of 12-in. walnut tree; crossed nails	925.62
T. 64 N., R. 31 W., cor. secs. 5, 6, 7, and 8, about 100 ft. S. and 832 ft. E. from, in root on N. side of 14-in. oak tree; copper nail and washer	967.93
T. 64 N., R. 31 W., near line between secs. 6 and 7, 20 ft. N. and 25 ft. E. from U.S. Highway 169 at cross rd., on S. end of E. head wall of culvert; chiseled square	905.35
U.S.C. & G.S. standard disk stamped "L 71 1935"	909.083
T-rd. E., about 50 ft. W. of, in root on E. side of 16-in. black-oak tree; crossed nails	991.98

T. 64 N., R. 32 W., about 0.2 mi. N. of E. cor. secs. 1 and 12, about 30 ft. N. and 85 ft. W. from T-rd. S. (? W.), in root on W. side of oak tree; copper nail and washer	Feet 942.56
T. 64 N., R. 32 W., 385 ft. W. of S. sixteenth cor. sec. 1, 24 ft. N. of rd., in concrete post; standard tablet stamped "T T 752 O W A 1934"	987.652
T-rd. N., about 25 ft. S. of, at T-fence S.; surface of ground	962.4
T. 64 N., R. 32 W., in SE 1/4 sec. 2, 50 ft. W. of private garage, 30 ft. N. of rd., in root of 30-in. maple tree; copper nail and washer	925.29
T-rd. N., about 15 ft. N. and 450 ft. W. from, in root on S. side of 24-in. cottonwood tree; crossed nails	942.10
T. 64 N., R. 32 W., in SE 1/4 sec. 3, 15 ft. S. of rd., in root on W. side of 15-in. walnut tree; copper nail and washer	1,036.14

(Continued in Parnell quadrangle; see line 9.)

6. SOUTH ALONG SOUTH HALF OF WEST BORDER OF QUADRANGLE

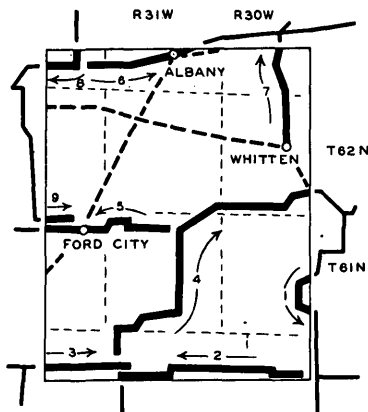
(Continued from Parnell quadrangle; see line 9.)

Dwelling, about 90 ft. N. and 50 ft. E. from, 25 ft. W. of rd., in root on N. side of 15-in. cherry tree; crossed nails	1,043.03
T. 64 N., R. 32 W., quarter cor. between secs. 21 and 22, 90 ft. S. and 30 ft. W. from, in root on N. side of 18-in. maple tree; copper nail and washer	1,020.70
T. 64 N., R. 32 W., cor. secs. 21, 22, 27, and 28, 25 ft. N. and 25 ft. W. from T-rd. N., in concrete post; standard tablet stamped "T T 736 C W A 1934"	1,025.470
T. 64 N., R. 32 W., near quarter cor. between secs. 22 and 27, about 50 ft. S. and 45 ft. E. from 10-in. pipe culvert, in root on W. side of 18-in. walnut tree; copper nail and washer	981.80
Farmhouse, about 25 ft. N. and 20 ft. E. from entrance to, in root on E. side of 15-in. maple tree; crossed nails	1,056.06
T. 64 N., R. 32 W., near quarter cor. between secs. 23 and 26, about 25 ft. N. and 85 ft. W. from crossroads, in root on W. side of 30-in. maple tree; copper nail and washer	1,067.43
Schoolhouse, about 250 ft. S. of, 25 ft. W. of rd., in root on E. side of 30-in. maple tree; (mark not described)	1,057.13
T-rd. W., about 25 ft. E. of, at W. side of brace post; surface of ground	1,042.3
T. 64 N., R. 32 W., near quarter cor. between secs. 26 and 35, about 60 ft. S. and 25 ft. W. from T-rd. E., in top of hedge stump; copper nail and washer	1,031.48
T. 64 N., R. 32 W., near center sec. 35, 80 ft. S. and 25 ft. W. from rd. at fence W., in concrete post; standard tablet stamped "T T 737 O W A 1934"	1,029.274
Tps. 63 and 64 N., R. 32 W., approximate quarter cor. between secs. 2 and 35, about 50 ft. N. and 20 ft. E. from T-rd. E., in root on W. side of oak tree; copper nail and washer	1,012.00
T-rd. W., about 30 ft. E. of, in root on W. side of 10-in. elm tree; crossed nails	992.63
T. 63 N., R. 32 W., near center sec. 2, about 50 ft. W. of rd., at S. fence line of yard, in root on E. side of 12-in. walnut tree; copper nail and washer	1,041.51
T-rd. N., about 580 ft. N. and 20 ft. W. from, in root on E. side of 15-in. walnut tree; crossed nails	1,021.24
T. 63 N., R. 32 W., cor. secs. 2, 3, 10, and 11, 20 ft. S. and 150 ft. E. from T-rd. S., in root on N. side of 40-in. cottonwood tree; copper nail and washer	960.14
T-rd. E., about 15 ft. S. and 30 ft. E. from, in root on W. side of 30-in. oak tree; crossed nails	997.69
T. 63 N., R. 32 W., cor. secs. 10, 11, 14, and 15, 910 ft. S. of rd. at fence E., 25 ft. E. of rd., in concrete post; standard tablet stamped "T T 738 C W A 1934"	971.762
T-rd. E., about 40 ft. S. and 18 ft. E. from, on E. head wall of culvert; chiseled square	959.54
Barn, about 85 ft. S. of, 20 ft. W. of rd., in root on S. side of 4-in. hedge tree; crossed nails	971.28
T. 63 N., R. 32 W., cor. secs. 14, 15, 22, and 23, about 25 ft. N. and 100 ft. E. from crossroads, in root on N. side of 30-in. elm tree; copper nail and washer	945.44
Wooden bridge, about 20 ft. S. and 20 ft. E. from, in root on E. side of 12-in. elm tree; crossed nails	874.89

(Continued in Darlington quadrangle; see line 8.)

For additional level lines along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order lines, Darlington, Mo. to Osceola, Iowa and Menlo, Iowa to Darlington, Mo.

DARLINGTON QUADRANGLE
(Latitude 40°00'-40°15'; longitude 94°15'-94°30')
DeKalb and Gentry Counties



1. NEAR MIDDLE OF SOUTH HALF OF EAST BORDER OF QUADRANGLE (leveled twice by R. B. Steele in 1922)
(Continued from Pattonsburg quadrangle; see line 2.)

T. 61 N., R. 30 W., in SW 1/4 sec. 14, 15 ft. S. of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 75 S 1921 Mo 44 R S 1922"	<u>Feet</u>
Reference mark, 30 ft. NE. of tablet; top of cornerstone	844.297
Bridge over Grand River; center of Grand River, under bridge; surface of water at 8 a. m. Aug. 5, 1922	843.79
T. 61 N., R. 30 W., in NW 1/4 sec. 23, 830 ft. SE. of bridge over Grand River, S. of rd., in root of 12-in. elm tree; copper nail	799.5
T. 61 N., R. 30 W., cor. secs. 26, 27, 34, and 35, 50 ft. N. and 60 ft. W. from crossroads, 50 ft. SE. of Mount Tabor Church, in root on N. side of 16-in. pine tree; copper nail	733.8
	792.17
	976.10

(Continued in Pattonsburg quadrangle; see line 2.)

2. WEST ALONG EAST HALF OF SOUTH BORDER OF QUADRANGLE (by I. P. Hazelwood in 1923)

T. 60 N., R. 30 W., cor. secs. 15, 16, 21, and 22, 160 ft. S. and 60 ft. W. from crossroads, in root on N. side of 18-in. maple tree; copper nail and washer	942.03
T. 60 N., R. 30 W., 280 ft. E. of quarter cor. between secs. 16 and 21, on N. side of concrete culvert; chiseled square	886.42
T. 60 N., R. 30 W., quarter cor. between secs. 17 and 20, 24 ft. N. and 50 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 69 S 1921 Mo"	990.473
T. 60 N., R. 30 W., quarter cor. between secs. 18 and 19, 30 ft. NE. of crossroads, in root of 18-in. elm tree; copper nail and washer	895.88
T. 60 N., R. 31 W., E. cor. secs. 13 and 24, 10 ft. N. and 25 ft. W. from, 10 ft. N. of rd., in root of 8-in. elm tree; copper nail and washer	903.04
T. 60 N., R. 31 W., cor. secs. 13, 14, 23, and 24, 30 ft. NW. of crossroads, on top of culvert; chiseled square	963.28
T. 60 N., R. 31 W., quarter cor. between secs. 14 and 23, 40 ft. NW. of crossroads, in root of 18-in. maple tree; copper nail and washer	1,016.45
T. 60 N., R. 31 W., cor. secs. 14, 15, 22, and 23, 20 ft. S. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 68 S 1921 Mo"	981.783
Reference mark, 52 ft. NE. of tablet, on W. end of concrete culvert; chiseled square	984.18
T. 60 N., R. 31 W., near E. sixteenth cor. between secs. 16 and 21, 15 ft. S. and 35 ft. E. from T-rd. S., 3 ft. S. of hedge fence, in root on W. side of 12-in. hedge tree; copper nail and washer	967.23
T. 60 N., R. 31 W., cor. secs. 16, 17, 20, and 21, 20 ft. SE. of T-rd. E., 5 ft. NW. of fence corner, on top of large rock, 18 in. above surface of ground; chiseled square	981.97
T. 60 N., R. 31 W., N. sixteenth cor. sec. 20, 30 ft. SW. of T-rd. S., 8 ft. S. and 7 ft. W. from fence corner, in concrete post; standard tablet	1,033.678
Reference mark, 5 ft. N. and 10 ft. W. from tablet, in root on E. side of 30-in. maple tree; copper nail and washer	1,034.17
T. 60 N., R. 31 W., N. sixteenth cor. between secs. 19 and 20, 27 ft. SE. of T-rd. E., in root on W. side of catalpa tree; copper nail and washer	1,042.37

(Continued in Maysville quadrangle; see line 3.)

3. EAST ALONG WEST PART OF SOUTH BORDER OF QUADRANGLE (by W. R. Broaddus in 1923)

T. 60 N., R. 32 W., cor. secs. 15, 16, 21, and 22, 18 ft. N. and 36 ft. W. from T-rd. S., 1 ft. S. of fence, in root on N. side of 10-in. hedge tree; copper nail and washer	<u>Feet</u> 1,065.44
T. 60 N., R. 32 W., cor. secs. 14, 15, 22, and 23, NE. of crossroads, 9 ft. NE. of fence corner, in concrete post; standard tablet stamped "B 1923 Mo"	1,008.525
Reference mark, 63 ft. N. 55° W. of tablet, in root on SW. side of 30-in. cottonwood tree; copper nail and washer	1,010.25
T. 60 N., R. 32 W., quarter cor. between secs. 14 and 23, 27 ft. N. and 12 ft. E. from T-rd. S., in root on N. side of 8-in. hickory tree; copper nail and washer	1,004.94
T. 60 N., R. 32 W., quarter cor. between secs. 13 and 24, SW. of crossroads, on top of S. head wall of concrete culvert; chiseled square	948.77
T. 60 N., R. 31 W., cor. secs. 18 and 19, 90 ft. N. of T-rd. E., 20 ft. E. of T-rd. W. at E. cor. secs. 13 and 24, T. 60 N., R. 32 W., 4 ft. W. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 67 S 1921 Mo"	985.494
Reference mark, 67 ft. N. 40° E. of tablet, in root on N. side of 10-in. hickory tree; copper nail and washer	984.37

4. NORTH THROUGH SOUTH HALF OF QUADRANGLE TO CENTER, THENCE EAST TO EAST BORDER

T. 60 N., R. 31 W., W. cor. secs. 7 and 18, SE. of T-rd. E., at corner of hedge fence, in root on N. side of 12-in. hedge tree; copper nail and washer	956.40
T. 60 N., Rs. 31 and 32 W., N. cor. secs. 7 and 12, 820 ft. E. of T-rd. S., 40 ft. S. of farmhouse, 50 ft. N. of rd., 21 ft. E. of W. fence of yard, in root on S. side of 24-in. pine tree; copper nail and washer	1,039.10
T. 61 N., R. 31 W., S. quarter cor. sec. 32, NE. of T-rd. N.; top of E. end of iron pipe culvert	1,034.87
T. 61 N., R. 31 W., quarter cor. between secs. 29 and 32, 20 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "B 1923 Mo"	965.913
Reference mark, 57 ft. S. 10° E. of tablet; top of E. end of iron pipe culvert	967.02
T. 61 N., R. 31 W., quarter cor. between secs. 28 and 33, 45 ft. N. and 15 ft. W. from rd. at fence N., 160 ft. W. of dwelling of F. M. Lykins, 30 ft. N. of fence, in root on S. side of 12-in. locust tree; copper nail and washer	970.26
T. 61 N., R. 31 W., cor. secs. 27, 28, 33, and 34, at T-rd. N.; top of N. end of concrete culvert	919.74
T. 61 N., R. 31 W., cor. secs. 26, 27, 34, and 35, NE. of crossroads, in root on NW. side of 30-in. maple tree; copper nail and washer	968.70
T. 61 N., R. 31 W., cor. secs. 22, 23, 26, and 27, 20 ft. N. and 15 ft. E. from T-rd. E., in concrete post; standard tablet stamped "B 1923 Mo"	896.283
Reference mark, 86 ft. N. 50° E. of tablet, in root on SW. side of 18-in. elm tree; copper nail and washer	900.45
T. 61 N., R. 31 W., quarter cor. between secs. 22 and 23, SW. of crossroads; top of W. end of iron pipe culvert	959.56
T. 61 N., R. 31 W., S. sixteenth cor. between secs. 14 and 15, SE. of T-rd. E. (? crossroads), on top of S. head wall of concrete culvert; chiseled square	840.97
T. 61 N., R. 31 W., near cor. secs. 10, 11, 14, and 15, 380 ft. S. of crossroads, on top of W. head wall of concrete culvert; chiseled square	823.79
T. 61 N., R. 31 W., cor. secs. 2, 3, 10, and 11, about 875 ft. W. of T-rd. N., 50 ft. S. and 50 ft. W. from dwelling of E. N. Clark, 20 ft. N. of rd., 3 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 16 Mac 1923"	965.615
Reference mark, 290 ft. S. 70° E. of tablet, on NE. corner of concrete porch of school; chiseled square	955.07
T. 61 N., R. 31 W., E. sixteenth cor. between secs. 2 and 11, NE. of crossroads; top of E. end of iron pipe culvert	924.90
T-rd. E.; surface of rd.	893.2
Tps. 61 and 62 N., R. 31 W., E. sixteenth cor. between secs. 2 and 35, 260 ft. N. of old rd. fork down hill, 30 ft. W. of rd., in root on N. side of 18-in. elm tree; copper nail and washer	906.87
Gentryville, in E 1/2 sec. 35, T. 62 N., R. 31 W., about 750 ft. W. of bridge over Grand River, 55 ft. S. and 40 ft. E. from T-rd. N. (?), in root on S. side of 48-in. elm tree; copper nail and washer	913.46
Bridge over Grand River; floor	826.9
Grand River, under bridge; surface of water at 4 p. m. Aug. 25, 1923	790.4
Gentryville, in sec. 36, T. 62 N., R. 31 W., S. of main street, in top of N. end of second step to general store of J. W. McVay; standard tablet	828.833
Reference mark, 62 ft. W. of tablet, on top of NE. corner of concrete porch of restaurant; chiseled square	827.80
T. 62 N., Rs. 30 and 31 W., near quarter cor. between secs. 31 and 36, 5 ft. N. and 10 ft. E. from T-rd. S., in S. side of 36-in. locust tree; copper nail and washer	927.05
T. 62 N., R. 30 W., near quarter cor. between secs. 31 and 32, 27 ft. N. and 33 ft. E. from crossroads, in root on S. side of 36-in. cottonwood tree; copper nail and washer	936.98
T. 62 N., R. 30 W., near center sec. 32, 40 ft. S. and 20 ft. W. from T-rd. S., in field, 5 ft. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 15 Mac 1923"	893.308
Reference mark, 64 ft. N. 3° W. of tablet, in root on N. side of 8-in. wild-cherry tree; copper nail and washer	893.48

T. 62 N., R. 30 W., near center sec. 33, 25 ft. S. and 245 ft. W. from T-rd. W., in root on W. side of 20-in. maple tree; copper nail and washer	<u>Feet</u> 871.02
T-rd. E.; surface of rd.	898.5
T. 62 N., R. 30 W., 500 ft. E. of quarter cor. between secs. 27 and 34, 15 ft. N. and 15 ft. W. from rd. at lane N., in concrete post; standard tablet stamped "B 1923 Mo"	934.424
Reference mark, 178 ft. SW. of tablet, on N. end of concrete walk; chiseled square	930.17

(Continued in Pattonsburg quadrangle; see line 5.)

5. FROM POINT NEAR CENTER OF QUADRANGLE WEST TO WEST BORDER

T. 61 N., R. 31 W., cor. secs. 3, 4, 9, and 10, 12 ft. N. and 20 ft. W. from T-rd. S.; top of N. end of iron pipe culvert	1,006.27
T. 61 N., R. 31 W., W. sixteenth cor. between secs. 4 and 9, 125 ft. E. of T-rd. S., on top of S. end of concrete culvert; chiseled square	999.56
Rd. corner from E.-N.; surface of rd.	991.3
T. 61 N., R. 31 W., S. sixteenth cor. between secs. 4 and 5, 60 ft. N. and 75 ft. W. from T-rd. W., on top of bottom step of Maple Grove Church; chiseled square	1,049.47
T-rd. S.; surface of rd.	1,029.9
T. 61 N., R. 31 W., in SE 1/4 SW 1/4 sec. 5, 55 ft. N. and 40 ft. E. from dwelling of C. M. Evans, 27 ft. S. of rd., 4 ft. N. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 17 Mac 1923"	1,064.171
Reference mark, 10 ft. S, 5° W. of tablet, in root on N. side of 18-in. walnut tree; copper nail and washer	1,063.41
T. 61 N., R. 31 W., center of SE 1/4 sec. 6, 255 ft. E. of T-rd. N., on top of N. head wall of concrete culvert; chiseled square	1,026.86
T. 61 N., R. 31 W., W. cor. secs. 6 and 7, 110 ft. S. of rd. corner from E.-S., 25 ft. E. of T-rd. W., in concrete post; standard tablet stamped "B 1923 Mo"	1,036.871
Reference mark, 18 ft. S 5° E. of tablet, in root on S. side of 8-in. hedge tree; copper nail and washer	1,035.96
Ford City, in front of Chicago, Burlington & Quincy R.R. sta.; top of rail	1,043.0
Ford City, 180 ft. N. of cor. secs. 1, 2, 11, and 12, T. 61 N., R. 32 W., on main street, 3 ft. SW. of SW. corner of lumberyard of Miner and Fraes, on top of sidewalk; chiseled square	1,057.06
T. 61 N., R. 32 W., cor. secs. 2, 3, 10, and 11, 13 ft. S. and 28 ft. E. from crossroads, 12 ft. E. of fence corner, 3 ft. N. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 18 Mac 1923"	1,078.447

(Continued in Stanberry quadrangle; see line 3.)

6. EAST ALONG NORTH BORDER OF QUADRANGLE TO ALBANY (by Charles E. Hunter in 1936)

Carmack, 3.9 mi. W. of, along U.S. Highway 169, 42 ft. S. and 100 ft. E. from cross rd., in concrete post; standard tablet stamped "T T 739 C W A 1934"	882.594
Carmack, about 2.9 mi. W. of, along U.S. Highway 169, about 200 ft. N. and 100 ft. E. from junction of rd. N., in root on W. side of 24-in. oak tree; copper nail and washer	858.30
Carmack, about 2.1 mi. W. of, along U.S. Highway 169, 30 ft. N. and 20 ft. W. from cross rd., on W. head wall of concrete culvert; chiseled square	944.20
Carmack, about 1.4 mi. W. of, along U.S. Highway 169, 70 ft. N. and 35 ft. W. from cross rd., on SE. corner of concrete porch of church; chiseled square	932.79
Carmack, about 0.6 mi. W. of, along U.S. Highway 169, 10 ft. S. and 15 ft. E. from junction of rd. S., on S. concrete curb; chiseled square	959.90
Carmack, 22 ft. S. and 105 ft. W. from junction of U.S. Highway 169, State Highway 4, and rd. S., in concrete post; standard tablet stamped "749 C W A 1934"	910.319
Top of hill, S. of State Highway 4, in root on N. side of 30-in. elm tree; crossed nails	941.19
Carmack, 1.2 mi. E. of, along State Highway 4, on S. end of W. concrete abutment of bridge over Middle Fork of Grand River; chiseled square	850.12
U.S.C. & G.S. standard disk stamped "R 71 1935" (Moved; new elev. 843.202)	839.572
Albany, about 2.8 mi. W. of, along State Highway 4, 290 ft. SW. of cross rd., on NW. head wall of concrete culvert; chiseled square	911.55
Albany, about 2 mi. W. of, along State Highway 4, 35 ft. S. and 40 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "750 C W A 1934"	856.389
Albany, about 1.2 mi. W. of, along State Highway 4, 875 ft. W. of junction of rd. N., on S. end of W. abutment of bridge F-333; chiseled square	845.73
T-rd. N., on E. end of iron pipe culvert; painted square	843.88
U.S.C. & G.S. standard disk stamped "Albany 1934"	914.795
State Highway 4 at cross street, 40 ft. S. and 20 ft. E. from, on NW. corner of sidewalk; chiseled square	935.39

(Continued in Gentry quadrangle; see line 1.)

7. FROM WHITTEN NORTH TO NORTH BORDER OF QUADRANGLE (by J. Earl Brannan in 1936)

	Feet
U.S.C. & G.S. standard disk stamped "Z 18 1933"	985.372
T-rd. E., 70 ft. N. and 25 ft. E. from, in root on W. side of 24-in. elm tree; bent nail	979.96
T-fence S., 120 ft. N. and 300 ft. E. from, in root on W. side of 30-in. cottonwood tree; copper nail and washer	974.70
T. 62 N., R. 30 W., in sec. 10, about 207 ft. N. and 20 ft. E. from cross-roads, in root on W. side of 8-in. ash tree; copper nail and washer	966.71
T. 62 N., R. 30 W., near quarter cor. between secs. 3 and 10, 10 ft. S. and 25 ft. E. from rd. at fence E., in concrete post; standard tablet stamped "T T 832 C W A 1934"	943.503
T-rd. E., 50 ft. S. and 20 ft. W. from, on N. end of W. head wall of culvert; chiseled square	980.09
T. 63 N., R. 30 W., S 1/2 sec. 34, 20 ft. N. and 40 ft. E. from T-rd. S., in root on NW. side of 30-in. black-locust tree; copper nail and washer	1,018.77
T-rd. N., about 100 ft. N. and 120 ft. W. from, in root on E. side of 24-in. elm tree; copper nail and washer	966.17
T. 63 N., R. 30 W., cor. secs. 27, 28, 33, and 34, 145 ft. S. and 25 ft. W. from, at fence E., in root on E. side of 24-in. maple tree; copper nail and washer	967.97
T. 63 N., R. 30 W., near quarter cor. between secs. 27 and 28, 105 ft. S. and 19 (? 25) ft. E. from T-rd. W., 2 ft. N. of NW. corner of private garage on property of Dr. J. W. Chenoweth, in concrete post; standard tablet stamped "T T 833 C W A 1934"	1,031.302
T-rd. S., about 50 ft. S. and 20 ft. E. from, in root on W. side of 12-in. hedge tree; copper nail and washer	1,005.16
T. 63 N., R. 30 W., near W. sixteenth cor. between secs. 22 and 27, 90 ft. S. of T-rd. N., in fence line S., in root on N. side of 18-in. elm tree; copper nail and washer	1,034.88
Rd. at fence E., 15 ft. N. and 20 ft. E. from, in root on W. side of hedge tree; copper nail and washer	1,027.75
T-rd. S., about 20 ft. N. and 87 ft. E. from, in root on S. side of 10-in. hedge tree; copper nail and washer	1,050.56

(Continued in Gentry quadrangle; see line 5.)

8. IN NORTHWEST CORNER OF QUADRANGLE

(Continued from Gentry quadrangle; see line 6.)

West Fork of Grand River; surface of water at 1:35 p. m. Dec. 23, 1935 844.4

(Continued in Stanberry quadrangle; see line 10.)

9. FROM MIDDLE OF WEST BORDER OF QUADRANGLE EAST TO FORD CITY (by

J. Earl Brannan in 1935 and Charles E. Hunter in 1936)

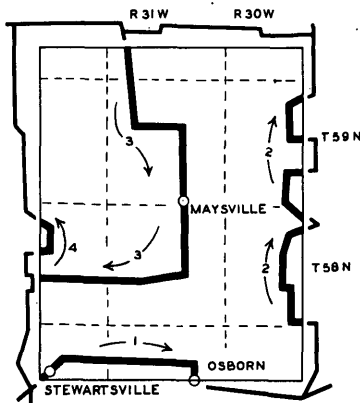
(Continued from Stanberry quadrangle; see line 10.)

Wooden box culvert, on SE. corner of S. end of; painted square 1,047.02
U.S.C. & G.S. standard disk stamped "X 71 1935" 1,043.213

For additional level lines along Wabash Ry. and Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Milan, Mo. to Hamburg, Iowa; and second-order lines, Darlington to St. Joseph, Menlo, Iowa to Darlington, Mo., and Darlington, Mo. to Osceola, Iowa.

MAYSVILLE QUADRANGLE
(Latitude $39^{\circ}45' - 40^{\circ}00'$; longitude $94^{\circ}15' - 94^{\circ}30'$)

DeKalb County



1. NEAR SOUTH BORDER OF QUADRANGLE EAST ALONG CHICAGO, BURLINGTON
& QUINCY RAILROAD (by S. R. Archer in 1920)
(Continued from Gower quadrangle; see line 1.)

	<u>Feet</u>
Stewartsville, in front of Chicago, Burlington & Quincy R.R. sta.; top of rail	959.3
Stewartsville, 0.4 mi. E. of, at Chicago, Burlington & Quincy R.R. bridge 184.77, on top of S. end of parapet wall of E. abutment; chiseled square	958.92
T. 57 N., R. 32 W., in NW 1/4 SE 1/4 sec. 14, 140 ft. S. and 60 ft. W. from Chicago, Burlington & Quincy R.R. milepost marked "183 sections 49 and 50", 80 ft. S. of fence, in field, in root on N. side of 36-in. cottonwood tree; copper nail and washer	1,018.42
T. 57 N., R. 31 and 32 W., line between secs. 13 and 18, 50 ft. N. of Chicago, Burlington & Quincy R.R. at rd. crossing, W. of rd., at fence corner; iron post stamped "1920 Mo 1058"	1,057.287
T. 57 N., R. 31 W., in NW 1/4 SW 1/4 sec. 17, 850 ft. E. of Chicago, Burlington & Quincy R.R. at rd. crossing, S. of track, on top of E. end of S. head wall of concrete bridge 180.42; chiseled square	1,022.69

(Continued in Plattsburg quadrangle; see line 1.)

2. NORTH ALONG EAST BORDER OF QUADRANGLE (by R. B. Steele in 1922)
(Continued from Winston quadrangle; see line 7.)

T. 57 N., R. 30 W., N. quarter cor. sec. 3, SE. of T-rd. S., on top of S. end of stone culvert; chiseled square	997.13
T. 58 N., R. 30 W., N. sixteenth cor. sec. 34, NE. of T-rd. S., in root on S. side of 12-in. hackberry tree; copper nail	1,001.87
T. 58 N., R. 30 W., center of S 1/2 sec. 27, 75 ft. W. of T-rd. S., N. of rd., 1 ft. S. and 6 ft. W. from fence corner, in concrete post; standard tablet stamped "11 R S 1922 Mo"	977.265
Reference mark, 35 ft. S. of tablet, in root of 10-in. hackberry tree; copper nail	978.90
T-rd.; surface of rd.	953.6
T. 58 N., R. 30 W., N. sixteenth cor. between secs. 27 and 28, NE. of rd. corner from E.-N., at gate to barnyard, on top of E. end of pipe culvert; chiseled mark	913.44
T-rd.; surface of rd.	864.2
T. 58 N., R. 30 W., quarter cor. between secs. 21 and 28, 120 ft. S. of rd. corner from E.-N., on SW. steel pier of Owens Bridge over Grindstone Creek; top of bolt head	848.06
Quincy, Omaha & Kansas City R.R. at rd. crossing; top of E. rail	863.4
Fordham, 500 ft. N. of Quincy, Omaha & Kansas City R.R. sta., 25 ft. S. and 90 ft. E. from rd. crossing, 3 ft. S. of fence corner, in concrete post; standard tablet stamped "12 R S 1922 Mo"	855.269
Reference mark, 64 ft. N. 22° W. of tablet, on concrete base of fence post; chiseled square	854.76
Quincy, Omaha & Kansas City R.R. at private rd. crossing; top of W. rail	857.5
T. 58 N., R. 30 W., near E. sixteenth cor. between secs. 9 and 16, 55 ft. S. and 95 ft. E. from Quincy, Omaha & Kansas City R.R. at rd. crossing, in root on N. side of 36-in. oak tree; copper nail	840.17

(For balance in Winston quadrangle, see line 7.)

T. 58 N., R. 30 W., N. sixteenth cor. sec. 3, NW. of T-rd. N., 24 ft. N. and 16 ft. W. from fence corner, in concrete post; standard tablet stamped "13 R S 1922 Mo" (Moved; new elev. 853.328)	853.730
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	Feet
Reference mark, NE. of tablet, on top of E. head wall of concrete culvert; chiseled square	851.39
T-rd.; surface of rd.	827.6
Bridge over Lost Creek; center of	818.4
Lost Creek, under bridge; surface of water at 9 a. m. June 21, 1922	796.8
Top of hill; S. end of box culvert	888.5
T. 59 N., R. 30 W., in SW 1/4 SW 1/4 sec. 27, SW. of rd. fork SW., in root on E. side of 42-in. elm tree; copper nail	892.83
T-rd. W.; surface of rd.	880.6
T. 59 N., R. 30 W., near quarter cor. between secs. 22 and 27, 20 ft. N. and 50 ft. E. from Chicago, Rock Island & Pacific Ry. at rd. crossing, on top of N. end of 36-in. iron pipe culvert; chiseled mark	901.20

(For balance in Winston quadrangle, see line 7.)

Rd. corner from E.-N.; surface of rd.	920.2
Top of hill, opposite cemetery; surface of rd.	910.0
T. 59 N., R. 30 W., near quarter cor. between secs. 10 and 15, SE. of T-rd. E., on top of E. head wall of concrete culvert; chiseled square	827.24
Top of hill; surface of rd.	901.1
Top of hill; surface of rd.	911.6
T. 59 N., R. 30 W., quarter cor. between secs. 3 and 10, N. of T-rd. S., E. of gate, at fence corner, in root on S. side of 6-in. hedge tree; copper nail	887.46

(Continued in Winston quadrangle; see line 7.)

3. FROM NORTH BORDER OF QUADRANGLE SOUTHEAST TO MAYSVILLE, THENCE SOUTH AND WEST TO WEST BORDER (by I. F. Hazelwood in 1923)
(Continued from Darlington quadrangle; see line 2.)

T. 60 N., R. 31 W., quarter cor. between secs. 29 and 30, 28 ft. NW. of crossroads, on top of iron pipe culvert; chiseled cross	1,027.48
T. 59 N., R. 31 W., N. cor. secs. 5 and 6, 28 ft. SE. of T-rd. S., 6 ft. SE. of corner of hedge fence, in enclosure, in concrete post; standard tablet	1,010.207
T. 59 N., R. 31 W., cor. secs. 5, 6, 7, and 8, 75 ft. SE. of crossroads, on NW. corner of concrete porch of Mount Hope School; chiseled square	985.10
T. 59 N., R. 31 W., S. sixteenth cor. between secs. 7 and 8, 25 ft. NE. of crossroads, on W. side of concrete base of corner fence post; chiseled square	924.03
T. 59 N., R. 31 W., cor. secs. 8, 9, 16, and 17, 15 ft. S. and 50 ft. W. from T-rd. N., in concrete post; standard tablet	891.029
T. 59 N., R. 31 W., cor. secs. 9, 10, 15, and 16, 13 ft. S. and 70 ft. E. from crossroads, in root on N. side of 20-in. oak tree; copper nail and washer	895.61
T. 59 N., R. 31 W., cor. secs. 10, 11, 14, and 15, 20 ft. S. and 15 ft. E. from crossroads, on top of E. side of concrete culvert; chiseled square	866.62
T. 59 N., R. 31 W., cor. secs. 14, 15, 22, and 23, 17 ft. N. and 52 ft. E. from T-rd. E., in concrete post; standard tablet	863.866
Reference mark, 1 1/2 ft. E. of tablet, in root on W. side of 18-in. maple tree; copper nail and washer	863.83
T. 59 N., R. 31 W., 200 ft. W. of cor. secs. 22, 23, 26, and 27, on top of S. wing wall of concrete culvert; chiseled square	897.07
T. 59 N., R. 31 W., quarter cor. between secs. 26 and 27, 30 ft. SE. of T-rd. E. (? S.), on concrete base of corner fence post; chiseled square	931.06
T. 59 N., R. 31 W., 350 ft. N. of cor. secs. 26, 27, 34, and 35, on top of E. wing wall of concrete culvert; chiseled square	879.89
Maysville, in SE. corner of courthouse yard, 25 ft. N. and 26 ft. W. from SE. corner of border curbing, 3 ft. S. of flagpole, in concrete post; standard tablet	974.268
Reference mark, 4 ft. N. of tablet, in concrete base of flagpole; chiseled square	974.69
Maysville, 160 ft. N. and 70 ft. E. from Chicago, Rock Island & Pacific Ry. sta., at SE. corner of street intersection, on top of S. end of concrete culvert; chiseled square	901.75
Maysville, in front of Chicago, Rock Island & Pacific Ry. sta.; top of N. rail of main track	899.6
T. 58 N., R. 31 W., in NW 1/4 NE 1/4 sec. 10, 30 ft. SW. of T-rd. W., on concrete base of corner fence post; chiseled square	933.55
T. 58 N., R. 31 W., E. sixteenth cor. between secs. 10 and 15, 15 ft. S. and 30 ft. W. from T-rd. W., on top of S. end of concrete culvert; chiseled square	950.90
T. 58 N., R. 31 W., 0.2 mi. W. of cor. secs. 14, 15, 22 and 23, 50 ft. SW. of junction of T-rd. W., in top of concrete post; standard tablet	903.338
T. 58 N., R. 31 W., cor. secs. 16, 17, 20, and 21, 27 ft. NW. of crossroads, on top of E. wing wall at N. end of concrete culvert; chiseled square	1,002.21
T. 58 N., R. 31 W., cor. secs. 20, 21, 28, and 29, 27 ft. NW. of crossroads, in concrete post; standard tablet	972.872
T. 58 N., R. 31 W., cor. secs. 19, 20, 29, and 30, 27 ft. NE. of crossroads, in root on S. side of 22-in. cottonwood tree; copper nail and washer	1,051.88
T. 58 N., R. 32 W., E. cor. secs. 24 and 25, 40 ft. SW. of T-rd. W. at crossroads, on top of concrete sewer; chiseled square	1,026.04
T. 58 N., R. 32 W., cor. secs. 23, 24, 25, and 26, 200 ft. W. of T-rd. S., on top of N. wing wall of concrete culvert; chiseled square	981.45

T. 58 N., R. 32 W., quarter cor. between secs. 23 and 26, 20 ft. W. of T-rd. N., N. of rd., in root on S. side of 36-in. maple tree; copper nail and washer	<u>Feet</u> 985.34
T. 58 N., R. 32 W., cor. secs. 22, 23, 26, and 27, 40 ft. NW. of crossroads, 3 ft. N. of fence, in concrete post; standard tablet	1,035.763
T. 58 N., R. 32 W., W. sixteenth cor. between secs. 22 and 27, 18 ft. NW. of T-rd. N.; top of W. end of iron pipe culvert;	1,005.12

4. NORTH NEAR MIDDLE OF WEST BORDER OF QUADRANGLE (by W. R. Broadus in 1923)

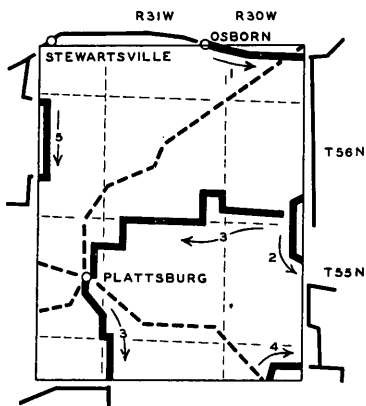
(Continued from Clarksdale quadrangle; see line 1.)

T. 58 N., R. 32 W., quarter cor. between secs. 16 and 21, opposite T-rd. S., in fence line, in root on S. side of 30-in. cottonwood tree; copper nail and washer	979.42
T. 58 N., R. 32 W., cor. secs. 15, 16, 21, and 22, 140 ft. N. and 100 ft. E. from T-rd. N., in root on W. side of 30-in. locust tree; copper nail and washer	1,004.00
T. 58 N., R. 32 W., cor. secs. 9, 10, 15, and 16, 24 ft. N. and 18 ft. E. from crossroads, 5 ft. NE. of fence corner; iron post stamped "Prim Trav Sta No 63 S 1921 Mo"	988.869
Reference mark, 170 ft. S. 18° W. of tablet, in fence line, in root on E. side of 12-in. ash tree; copper nail and washer	985.04
T. 58 N., R. 32 W., cor. secs. 3, 4, 9, and 10, 100 ft. S. and 15 ft. E. from crossroads, 1 ft. E. of fence, in root on SE. side of 12-in. wild-cherry tree; copper nail and washer	1,012.25
T. 58 N., R. 32 W., N. cor. secs. 3 and 4, 30 ft. S. and 180 ft. E. from T-rd. S., 100 ft. E. of fence corner, in root on E. side of 18-in. black-oak tree; copper nail and washer	954.19

(Continued in Clarksdale quadrangle; see line 1.)

PLATTSBURG QUADRANGLE
(Latitude 39°30'1"-39°45'; longitude 94°15'-94°30')

Clinton and DeKalb Counties



1. NEAR NORTH BORDER OF QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD (by S. R. Archer in 1920)

(Continued from Maysville quadrangle; see line 1.)

T. 57 N., R. 31 W., in S 1/2 sec. 16, at Chicago, Burlington & Quincy R.R. bridge 179.10 over Little Platte River, on top step of wing wall at S. end of E. abutment; chiseled square	1,009.77
T. 57 N., R. 31 W., about 0.1 mi. N. of cor. secs. 15, 16, 21, and 22, 75 ft. S. of Chicago, Burlington & Quincy R.R. at rd. crossing, W. of rd., 25 ft. S. of fence corner, in root on NE. side of 6-in. elm tree; copper nail and washer	1,040.79
Osborn, 1,000 ft. W. of Chicago, Burlington & Quincy R.R. sta., 60 ft. S. and 25 ft. E. from rd. crossing, 5 ft. S. and 2 ft. W. from fence corner; iron post stamped "Prim Trav Sta No 3 1913 Mo 1035"	1,034.527
Osborn, at Chicago, Burlington & Quincy R.R. sta., N. of track, in front of operator's window, on top of N. side of concrete base of semaphore; chiseled square	1,037.53
T. 57 N., R. 31 W., in NW 1/4 sec. 24, 150 ft. SE., thence 60 ft. N. from signboard marked "Osborn", N. of track, 8 ft. N. and 5 ft. W. from fence corner, 12 ft. NW. of SW. corner of yard, in root on S. side of 12-in. pine tree (tenth one from W. end of row of pine trees); copper nail and washer	984.07

T. 57 N., R. 30 W., in W 1/2 sec. 19, at Chicago, Burlington & Quincy R.R. bridge 175.37 over Grindstone Creek, on top of S. end of parapet wall of E. concrete abutment; chiseled square	<u>Feet</u> 962.05
T. 57 N., R. 30 W., near quarter cor. between secs. 19 and 20, NW. of Chicago, Burlington & Quincy R.R. at rd. crossing, at fence corner; iron post stamped "1920 Mo 991"	990.561
T. 57 N., R. 30 W., on line between secs. 20 and 21, 200 ft. W. of Chicago, Burlington & Quincy R.R. at rd. crossing, S. of track, on top of NE. corner of concrete base of semaphore; chiseled square	1,037.64
T. 57 N., R. 30 W., near center sec. 21, NW. of crossing of Chicago, Burlington & Quincy R.R. and Chicago, Rock Island & Pacific Ry., in front of interlocking booth, 2 ft. E. of center of octagon concrete base of interlocking elbow; chiseled square	1,028.128

(Continued in Polo quadrangle; see line 1.)

2. SOUTH NEAR MIDDLE OF EAST BORDER OF QUADRANGLE (by R. B. Steele and J. M. Rawls in 1922)

T. 56 N., R. 30 W., center sec. 34, 20 ft. N. and 30 ft. W. from cross-roads, in concrete post; standard tablet stamped "Prim Trav Sta No 34 S 1921 Mo 22 R S 1922"	1,033.785
Reference mark, 50 ft. N. 85° E. of tablet, on concrete base of highway signpost; chiseled square	1,034.69
Tps. 55 and 56 N., R. 30 W., N. quarter cor. sec. 3, 16 ft. N. and 2 ft. W. from T-rd. S., 10 ft. E. of telephone pole, on top of stone; chiseled square	1,031.32
T. 55 N., R. 30 W., quarter cor. between secs. 3 and 10, E. of T-rd. W., on concrete base of highway signpost; chiseled square	1,030.92
Top of hill; surface of rd.	1,059.7
T. 55 N., R. 30 W., quarter cor. between secs. 10 and 15, at T-rd. N., on top of cornerstone; chiseled square	1,015.80

3. FROM MIDDLE OF EAST BORDER OF QUADRANGLE WEST AND SOUTHWEST TO PLATTSBURG, THENCE SOUTHEAST TO SOUTH BORDER (by W. R. Broadus in 1923)

T. 56 N., R. 30 W., in W 1/2 sec. 33, near farmhouses on opposite sides of rd., 45 ft. S. of rd., 80 ft. NE. of farmhouse, in root on W. side of 18-in. pine tree; copper nail and washer	964.85
T. 56 N., R. 30 W., near E. sixteenth cor. sec. 32, 130 ft. W. of rd. forks, in top of SE. pier of bridge over Shoal Creek; bolt head	905.45
T. 56 N., R. 30 W., quarter cor. between secs. 31 and 32, N. of rd., 17 ft. SE. of corner post, in fence line in front of farmhouse, 6 ft. W. of telephone pole, in concrete post; standard tablet stamped "B 1923 Mo"	1,004.679
Reference mark, 50 ft. N. of tablet, in root on SE. side of 30-in. box-elder tree; copper nail and washer	1,005.08
T. 56 N., R. 30 and 31 W., quarter cor. between secs. 31 and 36, 20 ft. S. and 75 ft. E. from T-rd. E., in fence line in front of farmhouse, in root on E. side of 14-in. ash tree; copper nail and washer	1,036.45
Turney, at S. limits of, 150 ft. N. of S. end of Main Street, W. of street, on NW. corner of sidewalk at dwelling of A. D. Todd; chiseled square	1,034.56
T. 56 N., R. 31 W., cor. secs. 25, 26, 35, and 36, 12 ft. N. and 40 ft. E. from rd. corner E.-S., 3 ft. E. of telephone pole, in concrete post; standard tablet stamped "B 1923 Mo"	998.361
Reference mark, 28 ft. N. 50° E. of tablet, in root on NW. side of 30-in. elm tree; copper nail and washer	995.00
Tps. 55 and 56 N., R. 31 W., cor. secs. 1, 2, 35, and 36, 20 ft. N. and 15 ft. E. from T-rd. W., in root on W. side of 24-in. maple tree; copper nail and washer	1,037.02
T. 56 N., R. 31 W., S. quarter cor. sec. 34, 125 ft. N. and 25 ft. W. from T-rd. N., 6 ft. W. of fence, in root on E. side of 36-in. black-oak tree; copper nail and washer	969.72
Tps. 55 and 56 N., R. 31 W., approximate cor. secs. 3, 4, 33, and 34, 25 ft. S. and 55 ft. W. from T-rd. S., 4 ft. S. of wire fence, in concrete post; standard tablet stamped "B 1923 Mo"	974.900
Reference mark, 45 ft. W. of tablet, in root on S. side of 24-in. cotton-wood tree; copper nail and washer	973.39
Little Platte River, under bridge; surface of water at 9 a. m. June 22, 1923	914.4
Tps. 55 and 56 N., R. 31 W., 270 ft. E. of approximate cor. secs. 4, 5, 32, and 33, at dwelling of T. S. Newby, on N. end of concrete walk; chiseled square	987.62
Tps. 55 and 56 N., R. 31 W., approximate quarter cor. between secs. 5 and 32, W. of Jefferson Highway at rd. E., on top near S. end of W. head wall of concrete culvert; chiseled square	997.42
T. 55 N., R. 31 W., approximate E. sixteenth cor. between secs. 6 and 7, W. of Jefferson Highway at rd. E., 7 ft. SW. of corner post, in concrete post; standard tablet stamped "B 1923 Mo"	967.075
Reference mark, 307 ft. S. 3° E. of tablet, on top near S. end of W. head wall of concrete culvert; chiseled square	968.42
T. 55 N., R. 31 and 32 W., on line between secs. 7 and 12, W. of Jefferson Highway at curve from NE.-S., 35 ft. S. of fence line, in S. side of 18-in. box-elder tree; spike	985.07
T. 55 N., R. 32 W., N. sixteenth cor. sec. 13, 180 ft. E. of curve in Jefferson Highway at rd. N., N. of highway, on N. head wall of small culvert; chiseled square	972.32

Plattsburg, at W. side of courthouse, 10 ft. N. of front entrance, 3 ft. above sidewalk, in side of stone base of pillar; standard tablet stamped "B 1923 Mo"	<u>Feet</u> 952.436
Reference mark, 18 ft. S. of tablet, on top of curb; chiseled square	950.11
Plattsburg, at SE. limits of, near N. edge of Green Lawn Cemetery, at SE. corner of T-rd. S.; top of E. end of iron pipe culvert	915.99
Little Platte River, under bridge; surface of water at 3 p. m. June 26, 1923	852.7
T. 55 N., Rs. 31 and 32 W., S. sixteenth cor. between secs. 25 and 30, 55 ft. W. of Jefferson Highway at curve from NW.-S., 5 ft. SW. of corner post, in concrete post; standard tablet stamped "B 1923 Mo"	911.838
Reference mark, 43 ft. S. 50° E. of tablet, on top of W. head wall of concrete culvert; chiseled square	911.31
Tps. 54 and 55 N., Rs. 31 and 32 W., cor. of, at SW. corner of T-rd. N. and private lane S., 5 ft. S. of fence corner, in root on N. side of 24-in. maple tree; copper nail and washer	1,022.15
T. 54 N., R. 31 W., near center sec. 6, 20 ft. SE. of T-rd. E.; top of S. end of iron pipe culvert	1,006.12
T. 54 N., R. 31 W., center sec. 7, 21 ft. W. of T-rd. E., 3 ft. N. and 2 ft. E. from fence corner; iron post stamped "Prim Trav Sta No 61 S 1921 Mo" (reset 1.49 ft. higher 8-31-38; new elev. 1,047.677)	1,046.187
Reference mark, 54 ft. S. 70° E. of tablet, in root on S. side of 18-in. hedge tree; copper nail and washer	1,042.87

4. IN SOUTHEAST CORNER OF QUADRANGLE

T. 54 N., R. 30 W., E. sixteenth cor. between secs. 5 and 8, 15 ft. N. and 20 ft. W. from rd. corner E.-N., 35 ft. N. of Atchison, Topeka & Santa Fe Ry.; iron post stamped "Prim Trav Sta No 59 S 1921"	1,020.815
Reference mark, 268 ft. E. of post, in root on NW. side of 24-in. maple tree; copper nail and washer	1,021.13
T. 54 N., R. 30 W., W. sixteenth cor. between secs. 4 and 9, about 25 ft. S. and 190 ft. E. from T-rd. S., in root on S. side of 18-in. walnut tree; copper nail and washer	1,049.79
T. 54 N., R. 30 W., cor. secs. 3, 4, 9, and 10, SW. of T-rd. S.; top of W. end of iron pipe culvert	1,041.89

(Continued in Polo quadrangle; see line 9.)

5. SOUTH ALONG NORTH PART OF WEST BORDER OF QUADRANGLE

(Continued from Gower quadrangle; see line 3.)

T. 56 N., R. 32 W., 600 ft. W. of N. sixteenth cor. between secs. 3 and 4, at SE. corner of T-rd. S., 10 ft. S. and 3 ft. E. from fence corner, in concrete post; standard tablet stamped "B 1923 Mo"	936.084
Reference mark, 122 ft. S. of tablet, in root on E. side of 6-in. elm tree; copper nail and washer	935.77
T. 56 N., R. 32 W., cor. secs. 3, 4, 9, and 10, 80 ft. S. of T-rd. E. and private lane W., W. of rd., at NE. corner of farmyard, in root on SE. side of 12-in. box-elder tree; copper nail and washer	950.74
T. 56 N., R. 32 W., quarter cor. between secs. 9 and 10, 160 ft. N. of crossroads, W. of rd., 8 ft. W. of fence, in SE. side of 36-in. elm tree; spike	950.50
T. 56 N., R. 32 W., 80 ft. N. of N. sixteenth cor. between secs. 15 and 16, 15 ft. E. of rd., in root on W. side of 30-in. locust tree; copper nail and washer	984.70
T. 56 N., R. 32 W., cor. secs. 15, 16, 21, and 22, 45 ft. NW. of crossroads, 2 ft. SW. of 8-in. elm tree, in concrete post; standard tablet stamped "B 1923 Mo"	985.535
Reference mark, 119 ft. S. 25° E. of tablet, in root on NE. side of 16-in. maple tree; copper nail and washer	987.28
T. 56 N., R. 32 W., quarter cor. between secs. 21 and 22, 155 ft. E. of crossroads, in fence line N. of rd., in SW. side of 27-in. elm tree; spike	963.42
T. 56 N., R. 32 W., cor. secs. 21, 22, 27, and 28, 45 ft. W. of T-rd. E., in line with fence N. of rd., in root on E. side of 30-in. black-oak tree; copper nail and washer	981.40
T. 56 N., R. 32 W., quarter cor. between secs. 27 and 28, 240 ft. W. of T-rd. N., N. of rd., on E. end of N. wing wall of concrete culvert; chiseled square	933.25
T. 56 N., R. 32 W., near center sec. 28, 450 ft. W. of rd. at private lane S., at W. end of small curve in rd., on E. end of N. wing wall of concrete culvert; chiseled square	916.88

(Continued in Gower quadrangle; see line 4.)

For additional level lines along Atchison, Topeka & Santa Fe Ry., Quincy, Omaha & Kansas City R.R., and Chicago, Rock Island & Pacific Ry., refer to United States Coast and Geodetic Survey second-order lines, St. Joseph to Lexington, Kansas City to Plattsburg, and Plattsburg to Gallatin.

Stewartsville, 0.2 mi. W. of Chicago, Burlington & Quincy R.R. sta., 65 ft. SW. of rd. crossing, 45 ft. S. of track, 2 ft. from fence corner; iron post stamped "Prim Trav Sta No 2 1913 Mo 958"

Feet
958.022

(Continued in Maysville quadrangle; see line 1.)

2. SOUTH ALONG WEST BORDER OF QUADRANGLE (by M. J. Harden and W. R. Broadus in 1923)

(Continued from Dearborn quadrangle; see line 4.)

T. 56 N., R. 34 W., near cor. secs. 17, 18, 19, and 20, 150 ft. NE. of St. Joseph Highway at rd. NE., on top of E. guard wall of concrete culvert; chiseled square	862.03
Agency, at NW. limits of, 350 ft. S. of Atchison, Topeka & Santa Fe Ry. at crossing of St. Joseph Highway, NW. of junction of rd. W., 18 ft. N. of SE. corner of yard of L. M. Farris, in concrete post; standard tablet stamped "H 1923"	830.527
Reference mark 1, about 350 ft. S. of rd. crossing, at SE. corner of yard of L. M. Farris, in root of 18-in. hard-maple tree; copper nail and washer	831.47
Reference mark 2, 350 ft. S. of rd. crossing, NW. of junction of rd. W.; N. end of iron pipe culvert	825.94
Agency, at S. limits of, near N. sixteenth cor. sec. 29, T. 56 N., R. 34 W., NW. of T-rd. W., in Ratliff's yard; top of S. end of retaining wall	850.40
Agency, 0.8 mi. S. of, near quarter cor. between secs. 29 and 32, T. 56 N., R. 34 W., SE. of T-rd. W.; S. end of tile culvert	902.21
Agency, 1.2 mi. S. of, near center sec. 32, T. 56 N., R. 34 W., at T-rd. E.; N. end of concrete culvert	859.77
T. 56 N., R. 34 W., S. quarter cor. sec. 32, NE. of T-rd. N., 12 ft. N. of fence corner, inside of fence, in concrete post; standard tablet stamped "H 1923"	928.804
Reference mark, 19 ft. N. of tablet, in root of 20-in. walnut tree; copper nail and washer	926.93
T. 55 N., R. 34 W., center sec. 5, NW. of T-rd. W., 4 ft. W. of fence corner, in root of 4-in. elm tree; copper nail and washer	964.32
T. 55 N., R. 34 W., S. sixteenth cor. sec. 5, NE. of T-rd. E., on N. head wall of concrete culvert; chiseled square	977.56
T. 55 N., R. 34 W., near center sec. 8, SE. of crossroads; top of E. end of iron pipe culvert	960.90
T. 55 N., R. 34 W., near quarter cor. between secs. 8 and 17, 60 ft. SE. of rd. forks, in root of 36-in. white-oak tree; copper nail and washer	962.93
T. 55 N., R. 34 W., near center sec. 17, in NE. corner of steel bridge over small creek; copper nail and washer	870.45
T. 55 N., R. 34 W., approximate quarter cor. between secs. 17 and 20, 250 ft. W. of Sherwood School, 25 ft. E. of rd., 34 ft. N. of corner fence post, in concrete post; standard tablet stamped "H 1923"	998.886
Reference mark, 34 ft. S. and 39 ft. E. from tablet, in root of 6-in. walnut tree; copper nail and washer	1,003.75
T. 55 N., R. 34 W., center sec. 20, NW. of T-rd. N.; top of W. end of concrete culvert	959.89

(For balance in Dearborn quadrangle, see line 4.)

T. 55 N., R. 34 W., in NW 1/4 sec. 32, 150 ft. S. of crossroads, E. of rd., at SW. corner of yard of O. W. Stafford, about 4 ft. inside of fence, in concrete post; standard tablet stamped "H 1923"	1,053.164
Reference mark, 100 ft. S. of crossroads, E. of rd., in 12-in. locust tree; copper nail and washer	1,052.87
Tps. 53 and 54 N., R. 34 W., on line between secs. 5 and 32, SW. of T-rd. N.; top of vertical rock	1,043.13

3. FROM NORTHEAST CORNER OF QUADRANGLE SOUTH ABOUT 3 MILES (by W. R. Broadus in 1923)

T. 57 N., R. 32 W., center of SW 1/4 sec. 21, 610 ft. S. of T-rd. W., 60 ft. N. of private lane SE., E. of rd., 15 ft. E. of fence, in root on W. side of 12-in. maple tree; copper nail and washer	1,023.30
T. 57 N., R. 32 W., near W. sixteenth cor. sec. 28, 100 ft. N. of T-rd. E., SW. of T-rd. W., top of S. end of iron pipe culvert	1,018.14
T. 57 N., R. 32 W., cor. secs. 28, 29, 32, and 33, SW. of T-rd. S., in line with S. fence line of rd. E., 5 ft. W. of fence, in concrete post; standard tablet stamped "B 1923 Mo"	983.941
Reference mark, 316 ft. W. of tablet, in root on SE. side of 30-in. elm tree; copper nail and washer	989.35
T. 57 N., R. 32 W., S. cor. secs. 32 and 33, 220 ft. N. of T-rd. N., E. of rd., at SW. corner of farmyard, in root on W. side of 24-in. maple tree; copper nail and washer	997.70

(Continued in Plattsburg quadrangle; see line 5.)

4. FROM POINT NEAR MIDDLE OF EAST BORDER OF QUADRANGLE WEST AND SOUTH BY WAY OF GOWER AND GRAYSON TO SOUTH BORDER
(Continued from Plattsburg quadrangle; see line 5.)

T. 56 N., R. 32 W., quarter cor. between secs. 28 and 29, 70 ft. NE. of T-rd. S., 8 ft. S. of yard fence, in root on SE. side of 30-in. elm tree; copper nail and washer	949.44
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T. 56 N., R. 32 W., cor. secs. 28, 29, 32, and 33, 27 ft. W. of T-rd. W., N. of rd., near fence corner; iron post stamped "Prim Trav Sta No 1 1913 Mo"	<u>Feet</u> 928.638
Reference mark, 20 ft. W. of post, in root on S. side of 18-in. maple tree; copper nail and washer	929.08
T. 56 N., R. 32 W., about 200 ft. W. of quarter cor. between secs. 29 and 32, NW. of T-rd. N., 5 ft. NW. of corner fence post, in root on N. side of 12-in. black-oak tree; copper nail and washer	897.77
T. 56 N., R. 32 W., approximate quarter cor. between secs. 31 and 32, 50 ft. W. of T-rd. W., at bridge over Castile Creek, in top near S. edge of SE. steel pier; rivet	876.83 857.1
Castile Creek, under bridge; surface of water at 7:30 a. m. June 4, 1923	
T. 56 N., R. 32 W., near center of NW 1/4 sec. 31, 35 ft. N. and 120 ft. E. from rd. corner E.-N. and dim rd. W., in root on W. side of 24-in. elm tree; copper nail and washer	941.25
T. 55 N., R. 33 W., center of NW 1/4 sec. 1, about 700 ft. E. of rd. corner from E.-S., NW. of junction of dim rd. NE., 10 ft. W. of corner post, in concrete post; standard tablet stamped "B 1923 Mo"	915.710
Reference mark, 72 ft. W. of tablet, in root on W. side of 12-in. black-oak tree; copper nail and washer	919.14
T. 55 N., R. 33 W., about 0.1 mi. E. of center sec. 2, on E. end of S. wing wall of concrete culvert over drain; chiseled square	874.46
Gower, about 0.5 mi. E. of E. limits of, in E 1/2 sec. 3, T. 55 N., R. 33 W., about 220 ft. S. of Atchison, Topeka & Santa Fe Ry. at rd. crossing, E. of rd., on N. end of E. wing wall of concrete culvert over drain; chiseled square	904.10
Gower, in SE. corner of park, 50 ft. NE. (? NW.) of street intersection, 15 ft. W. of sidewalk, 3 ft. N. of N. edge of E.-W. sidewalk on opposite side of street, in concrete post; standard tablet stamped "B 1923 Mo"	939.749
Reference mark, 21 ft. W. of tablet, in root on W. side of 30-in. box-elder tree; copper nail and washer	939.17
Gower, at S. limits of, approximate S. sixteenth cor. between secs. 3 and 4, T. 55 N., R. 33 W., NW. of T-rd. W.; top of N. end of iron pipe culvert	929.36
T. 55 N., R. 33 W., near W. sixteenth cor. between secs. 4 and 9, W. of rd. corner from E.-S., at fence corner, in root on E. side of 30-in. elm tree; copper nail and washer	958.80
T. 55 N., R. 33 W., quarter cor. between secs. 8 and 9, SW. of T-rd. S., 6 ft. SW. of fence corner, in concrete post; standard tablet stamped "B 1923 Mo"	903.245
Reference mark, 53 ft. N. 25° W. of tablet, in root on NE. side of 14-in. cedar tree; copper nail and washer	904.44 825.1
Jenkins Branch, under bridge; surface of water at 9 a. m. June 30, 1923	
T. 55 N., R. 33 W., near center sec. 8, 500 ft. W. of bridge over Jenkins Branch, 500 ft. S. and 180 ft. W. from farmhouse, on top of E. end of N. head wall of concrete culvert; chiseled square	835.75
T. 55 N., R. 33 W., near quarter cor. between secs. 7 and 8, 110 ft. N. and 30 ft. W. from T-rd. N., in root on SW. side of 24-in. walnut tree; copper nail and washer	933.98
T. 55 N., R. 33 W., near quarter cor. between secs. 7 and 18, SW. of T-rd. S., 8 ft. SW. of fence corner, in concrete post; standard tablet stamped "B 1923 Mo"	896.319
Reference mark, 94 ft. S. 15° W. of tablet, in root on N. side of 24-in. walnut tree; copper nail and washer	896.46
T. 55 N., R. 33 W., in NW 1/4 NW 1/4 sec. 17, at bridge over Castile Creek, in S. edge of SW. steel pier; bolt head	819.44 797.2
Castile Creek, under bridge; surface of water at 5 p. m. June 2, 1923	
T. 55 N., R. 33 W., 600 ft. N. and 100 ft. W. from center sec. 17, 100 ft. W. of rd. corner from W.-S., in front of dwelling of Lon Nash, S. of rd., in root on N. side of 36-in. sycamore tree; copper nail and washer	877.34
T. 55 N., R. 33 W., in N 1/2 sec. 20, 18 ft. N. and 18 ft. W. from T-rd. E., 4 ft. N. of board fence, in concrete post; standard tablet stamped "B 1923 Mo"	887.029
Reference mark, 110 ft. N. 50° W. of tablet, in root on E. side of 24-in. pine tree; copper nail and washer	887.51
T. 55 N., R. 33 W., quarter cor. between secs. 20 and 29, NE. of crossroads, at Rising Sun School, on SW. corner of concrete porch; chiseled square	931.39
T. 55 N., R. 33 W., near quarter cor. between secs. 21 and 28, 0.2 mi. W. of junction of private lane S. to dwelling, at small curve in rd., on top of S. head wall of concrete culvert; chiseled square	930.62
T. 55 N., R. 33 W., cor. secs. 21, 22, 27, and 28, SW. of crossroads on Buchanan-Clinton county line; top of W. end of iron pipe culvert	956.62
T. 55 N., R. 33 W., S. sixteenth cor. between secs. 23 and 26, 15 ft. E. of T-rd. N., S. of rd., 3 ft. N. of fence, in concrete post; standard tablet stamped "B 1923 Mo"	992.365
Reference mark, 52 ft. N. 49° W. of tablet, on W. side of concrete corner post; chiseled mark	993.07
T. 55 N., R. 33 W., cor. secs. 23, 24, 25, and 26, NW. of T-rd. W., on top of S. end of W. head wall of concrete culvert; chiseled square	946.98
T. 55 N., R. 33 W., S. sixteenth cor. between secs. 25 and 26, 40 ft. S. and 100 ft. W. from T-rd. W., in root on E. side of 24-in. elm tree; copper nail and washer	1,009.45
Grayson, near S. sixteenth cor. between secs. 35 and 36, T. 55 N., R. 33 W., at store of Freeman and Stuart, in SE. corner of concrete porch; standard tablet stamped "B 1923 Mo"	976.521
Reference mark, 32 ft. S. 5° W. of tablet, on S. head wall of concrete culvert; chiseled square	971.58

	<u>Feet</u>
T. 54 N., R. 33 W., 180 ft. N. and 50 ft. W. from cor. secs. 1, 2, 11, and 12, on top of W. head wall of concrete culvert; chiseled square	976.65
T. 54 N., R. 33 W., near center of NE 1/4 sec. 11, 850 ft. S. of private lane E. to farmhouse, 75 ft. N. of fence, on top of W. head wall of concrete culvert; chiseled square	992.27

5. FROM GOWER NORTH TO EASTON

Gower, 0.5 mi. N. of N. limits of, quarter cor. between secs. 33 and 34, T. 56 N., R. 33 W., 350 ft. W. of NW. corner of Antioch Cemetery, 260 ft. E. of crossroads, on SE. corner (17 in. above floor) of concrete bridge over Jenkins Branch; chiseled square	913.61
T. 56 N., R. 33 W., near center of NE 1/4 sec. 32, 350 ft. NW. of rd. fork NE., 50 ft. SW. of rd., 30 ft. E. of farmhouse, in yard, in root on NE. side of 24-in. box-elder tree; copper nail and washer	983.58
T. 56 N., R. 33 W., 150 ft. N. of cor. secs. 29, 30, 31, and 32, 550 ft. SE. of bridge over Malden Creek, SW. of junction of private lane S., 4 ft. SW. of fence corner, in concrete post; standard tablet stamped "B 1923 Mo"	884.400
Reference mark, 226 ft. S. 80° W. of tablet, in root on N. side of 36-in. locust tree; copper nail and washer	883.03
T. 56 N., R. 33 W., center sec. 30, 420 ft. W. of rd. corner from S.-W., 400 ft. E. of T-rd. N., on top of S. head wall of concrete culvert; chiseled square	913.28
T. 56 N., R. 33 W., quarter cor. between secs. 19 and 30, about 290 ft. W. of rd. corner from W.-N., on top of N. head wall of concrete culvert; chiseled square	913.46
T. 56 N., R. 33 W., quarter cor. between secs. 18 and 19, SW. of crossroads, 5 ft. SW. of fence corner, in concrete post; standard tablet stamped "B 1923 Mo"	948.394
Reference mark, 113 ft. S. 30° E. of tablet, in root on W. side of 20-in. locust tree; copper nail and washer	945.69
T. 56 N., R. 33 W., near center sec. 18, 100 ft. S. of crossroads, on E. wing wall of concrete culvert; chiseled square	974.36
T. 56 N., R. 33 W., center sec. 7, NW. of T-rd. W., in E. side of 12-in. walnut tree; spike	951.66
T. 56 N., R. 33 W., near center sec. 6, SW. of T-rd. W., 7 ft. SW. of fence corner, in concrete post; standard tablet stamped "B 1923 Mo"	932.240
Reference mark, 384 ft. S. of tablet, in root on N. side of 30-in. cottonwood tree; copper nail and washer	913.12
T. 57 N., R. 33 W., near center sec. 31, halfway between T-rd. E. and T-rd. W., on N. end of E. wing wall of concrete culvert; chiseled square	921.30
Easton, 0.5 mi. W. of, near center of SW 1/4 sec. 30, T. 57 N., R. 33 W., NW. of Chicago, Burlington & Quincy R.R. at rd. crossing, W. of fence corner, in fence line; iron post stamped "1920 Mo 903"	902.314
Reference mark, 32 ft. N. 80° E. of post, in root on NW. side of 24-in. elm tree; copper nail and washer	902.36

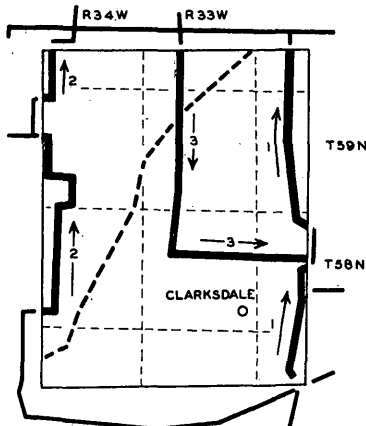
6. LINE TO DETERMINE ELEVATION OF WATER-RESOURCES GAGE 3.5 MILES NORTHEAST OF AGENCY (by T. G. Drummond in 1936)

U.S.C. & G.S. standard disk stamped "G 73 1935"	897.603
Agency, 3.5 mi. NE. of, in NW 1/4 sec. 10, T. 56 N., R. 34 W., about 20 ft. W. of E. abutment of present bridge carrying U.S. Highway 169 over Platte River, in top of right corner of upstream end of E. abutment of former bridge; standard tablet (set by water-resources branch of U.S. Geol. Survey)	835.486

For additional level lines along Atchison, Topeka & Santa Fe Ry. and Quincy, Omaha & Kansas City R.R., refer to United States Coast and Geodetic Survey second-order lines, St. Joseph to Lexington and Kansas City to Plattsburg.

CLARKSDALE QUADRANGLE
(Latitude $39^{\circ}45' - 40^{\circ}00'$; longitude $94^{\circ}30' - 94^{\circ}45'$)

Andrew, Buchanan, and DeKalb Counties



1. NORTH ALONG EAST BORDER OF QUADRANGLE (first 5 mi. leveled twice by W. R. Broadus and I. P. Hazelwood in 1923, remainder leveled once by W. R. Broadus in 1923.)

	Feet
T. 57 N., R. 32 W., cor. secs. 8, 9, 16, and 17, 65 ft. S. and 20 ft. W. from T-rd. W., in root on E. side of 18-in. wild-cherry tree; copper nail and washer	1,018.83
T. 57 N., R. 32 W., W. sixteenth cor. on N. line sec. 4, S. of T-rd. N.; iron post stamped "Prim Trav Sta No 62 S 1921 Mo"	1,035.607
T. 58 N., R. 32 W., W. sixteenth cor. between secs. 28 and 33, 100 ft. S. and 15 ft. W. from T-rd. E., 470 ft. N. of T-rd. W., in root on N. side of 18-in. cottonwood tree; copper nail and washer	1,030.04
T. 58 N., R. 32 W., near quarter cor. between secs. 21 and 28, about 225 ft. N. and 30 ft. W. from T-rd. N., 30 ft. SE. of Pleasant Grove Church, in concrete post; standard tablet stamped "B 1923 Mo"	1,005.274
Reference mark, 20 ft. NE. of tablet; E. end of concrete walk	1,005.85

(For balance in Maysville quadrangle, see line 4.)

Tps. 58 and 59 N., R. 32 W., cor. secs. 4, 5, 32, and 33, SW. of crossroads, 60 ft. S. and 60 ft. W. from corner post, in root on N. side of 18-in. black-oak tree; copper nail and washer	944.88
T. 59 N., R. 32 W., cor. secs. 28, 29, 32, and 33, 50 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 64 S 1921 Mo"	966.473
Reference mark, 9 ft. S. 5° W. of tablet, in root on NE. side of 12-in. locust tree; copper nail and washer	967.05
T. 59 N., R. 32 W., quarter cor. between secs. 28 and 29, SE. of T-rd. E., on NW. corner of concrete porch of schoolhouse; chiseled square	1,002.65
T. 59 N., R. 32 W., cor. secs. 20, 21, 28, and 29, NW. of T-rd. W., 25 ft. E. of farmhouse, in root on E. side of 24-in. maple tree; copper nail and washer	995.76
T. 59 N., R. 32 W., W. sixteenth cor. between secs. 16 and 21, NW. of T-rd. N., 5 ft. NW. of fence corner, in concrete post; standard tablet stamped "B 1923 Mo"	952.333
Reference mark, 33 ft. S. 60° E. of tablet, in root on N. side of 24-in. elm tree; copper nail and washer	951.95
T. 59 N., R. 32 W., W. sixteenth cor. between secs. 9 and 16, 45 ft. N. and 10 ft. W. from T-rd. S., in root on S. side of 24-in. maple tree; copper nail and washer	1,037.75
T. 59 N., R. 32 W., cor. secs. 4, 5, 8, and 9, 30 ft. N. and 30 ft. E. from crossroads, 6 ft. NE. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 65 S 1921 Mo"	998.506
Reference mark, 139 ft. N. 5° W. of tablet, in root on E. side of 12-in. hedge tree; copper nail and washer	1,004.55
Tps. 59 and 60 N., R. 32 W., cor. secs. 4, 5, 32, and 33, 80 ft. S. of crossroads, 4 ft. W. of fence W. of rd., in root on W. side of 42-in. cottonwood tree; copper nail and washer	1,021.66
T. 60 N., R. 32 W., cor. secs. 28, 29, 32, and 33, 18 ft. S. and 21 ft. E. from crossroads, in concrete post; standard tablet stamped "B 1923 Mo"	1,067.459
Reference mark, 40 ft. S. 15° W. of tablet, in root on N. side of 18-in. maple tree; copper nail and washer	1,068.38
T. 60 N., R. 32 W., near cor. secs. 20, 21, 28, and 29, 460 ft. S. of T-rd. E., on NE. wing wall of small concrete bridge; chiseled square	1,004.73

2. NORTH ALONG WEST BORDER OF QUADRANGLE (by M. J. Harden in 1923)
(Continued from St. Joseph quadrangle; see line 1.)

	Feet
T. 58 N., R. 34 W., W. sixteenth cor. between secs. 29 and 32, 160 ft. NE. of crossroads, in front of schoolhouse, in concrete porch, chiseled square	942.27
T. 58 N., R. 34 W., W. sixteenth cor. between secs. 20 and 29, NE. of crossroads; top of E. end of iron pipe culvert	970.64
T. 58 N., R. 34 W., near W. sixteenth cor. between secs. 17 and 20, 32 ft. N. and 69 ft. E. from Oak Ridge School, 120 ft. NW. of Reformed Church, in concrete post; standard tablet	982.042
Reference mark, 52 ft. SW. of tablet, on top of walk to school; chiseled square	983.15
T. 58 N., R. 34 W., in NE 1/4 SW 1/4 sec. 8, SW. of T-rd. S.; top of W. end of iron pipe culvert	952.66
T. 58 N., R. 34 W., E. sixteenth cor. sec. 8; NE. of crossroads; top of E. end of iron pipe culvert	989.25
T. 58 N., R. 34 W., E. sixteenth cor. sec. 5, 23 ft. N. and 49 ft. E. from crossroads, at top of embankment, inside fence, in concrete post; standard tablet	1,008.017
Reference mark, NW. of crossroads, top of E. end of iron pipe culvert	1,002.40
T. 59 N., R. 34 W., near quarter cor. between secs. 32 and 33, SE. of T-rd. S., in root of 18-in. elm tree; copper nail and washer	962.19
T. 59 N., R. 34 W., center sec. 33, about 60 ft. SW. of T-rd. N., near NW. corner of farmyard, in root of 10-in. elm tree; copper nail and washer	1,045.60
T. 59 N., R. 34 W., center sec. 28, SW. of crossroads; top of W. end of iron pipe culvert	985.72
T. 59 N., R. 34 W., center sec. 29, on SW. corner of concrete steps of Long Branch Church; chiseled square	999.22
T. 59 N., R. 34 W., cor. secs. 19, 20, 29, and 30, NW. of crossroads, 8 ft. W. of fence corner, in concrete post; standard tablet	1,009.431
Reference mark 1, SW. of crossroads; top of W. end of iron pipe culvert	1,006.68
Reference mark 2, NW. of crossroads; top of W. end of iron pipe culvert	1,005.30
T. 59 N., R. 34 W., cor. secs. 17, 18, 19, and 20, 135 ft. E. of T-rd. S., on top of N. guardrail of concrete culvert; chiseled square	1,033.39

(For balance in St. Joseph quadrangle, see line 1.)

T. 59 N., R. 34 W., in NE. cor. sec. 6, at bridge over small stream, on top of W. end of S. guard wall; chiseled square	1,002.58
T. 60 N., R. 34 W., quarter cor. between secs. 31 and 32, NW. of crossroads; top of W. end of iron pipe culvert	1,042.61
T. 60 N., R. 34 W., quarter cor. between secs. 29 and 30, NW. of T-rd. W., at SE. corner of yard of Bedford Chapel, in concrete post; standard tablet	1,056.746
T. 60 N., R. 34 W., 0.3 mi. E. of cor. secs. 19, 20, 29, and 30, on top of N. guard wall of concrete culvert; chiseled square	1,053.67

(Continued in Stanberry quadrangle; see line 1.)

3. SOUTH THROUGH CENTER OF NORTH HALF OF QUADRANGLE, THENCE EAST TO EAST BORDER
(Continued from Stanberry quadrangle; see line 1.)

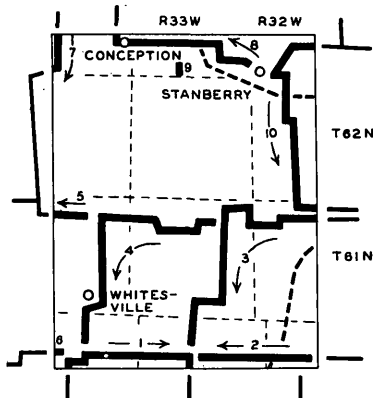
T. 60 N., R. 33 W., near cor. secs. 28, 29, 32, and 33, 50 ft. NW. of crossroads; top of limestone boulder	1,030.59
Tps. 59 and 60 N., R. 33 W., cor. secs. 4, 5, 32, and 33, 20 ft. N. and 11 ft. E. from crossroads, in concrete post; standard tablet	955.476
Reference mark, 270 ft. N. of crossroads, on top of W. guard wall of concrete culvert; chiseled square	955.16
T. 59 N., R. 33 W., cor. secs. 4, 5, 8, and 9, NE. of crossroads, on top of limestone boulder used as N. guard wall of small culvert; chiseled square	1,003.49
T. 59 N., R. 33 W., cor. secs. 16, 17, 20, and 21, 24 ft. S. and 27 ft. W. from crossroads, inside fence, in concrete post; standard tablet	1,051.904
Reference mark, SE. of crossroads, at NW. corner of farmyard, in root of 12-in. maple tree; copper nail and washer	1,052.22
T. 59 N., R. 33 W., N. sixteenth cor. between secs. 28 and 29, 60 ft. NW. of T-rd. N., in root of 12-in. wild-cherry tree; copper nail and washer	1,001.67
T. 59 N., R. 33 W., quarter cor. between secs. 29 and 32, NE. of crossroads, at SW. corner of yard of Franklin School, in concrete post; standard tablet	978.965
Reference mark, 46 ft. N. of tablet, in root of 16-in. black-oak tree; copper nail and washer	977.87
Tps. 58 and 59 N., R. 33 W., approximate quarter cor. between secs. 5 and 32, 10 ft. W. of S. end of wooden bridge over small stream, in root of 30-in. white-oak tree; copper nail and washer	960.04
T. 58 N., R. 33 W., quarter cor. between secs. 5 and 8, NW. of T-rd. N., about 800 ft. SW. of Bethel Church; top of W. end of iron pipe culvert	967.04
T. 58 N., R. 33 W., near E. sixteenth cor. between secs. 8 and 17, SW. of crossroads, inside fence, in concrete post; standard tablet	1,023.978
Reference mark, 63 ft. NE. of tablet, on top of SW. side of concrete base of corner post; chiseled square	1,020.26
T. 58 N., R. 33 W., approximate cor. secs. 9, 10, 15, and 16, at N.-S. jog in E.-W. rd., in root of 10-in. elm tree; copper nail and washer	894.66
T. 58 N., R. 33 W., on line between secs. 11 and 14, about 50 ft. S. of T-rd. S., W. of rd., in root of 24-in. white-oak tree; copper nail and washer	1,003.69
T. 58 N., R. 33 W., W. sixteenth cor. between secs. 12 and 13, N. of T-rd. S., in concrete post; standard tablet	1,002.295

Reference mark, 16 ft. W. of tablet, in root of 24-in. maple tree; copper nail and washer	Feet 1,003.20
T. 58 N., Rs. 32 and 33 W., approximate cor. secs. 7, 12, 13, and 18, SE. of crossroads, on top of concrete base of corner fence post; chiseled square	1,026.43
T. 58 N., R. 32 W., near W. sixteenth cor. between secs. 8 and 17, SW. of T-rd. S., on top of S. end of concrete culvert; chiseled square	929.54
T. 58 N., R. 32 W., near W. sixteenth cor. between secs. 9 and 16, Chicago, Rock Island & Pacific Ry. at rd. crossing; top of W. rail	938.7

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Darlington to St. Joseph.

STANBERRY QUADRANGLE
(Latitude 40°00'-40°15'; longitude 94°30'-94°45')

Andrew, DeKalb, Gentry, and Nodaway Counties



1. EAST ALONG WEST PART OF SOUTH BORDER OF QUADRANGLE (by M. J. Harden in 1923)
(Continued from Clarksdale quadrangle; see line 2.)

T. 60 N., R. 34 W., cor. secs. 16, 17, 20, and 21, 20 ft. W. of T-rd. E., 3 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 6 Mac 1923"	1,016.450
T. 60 N., R. 34 W., near cor. secs. 15, 16, 21, and 22, 30 ft. N. of T-rd. S., in root of 8-in. box-elder tree; copper nail and washer	952.20
T. 60 N., R. 34 W., in SE. cor. sec. 15, at SE. corner of bridge over Platte River, on top of rock pier; chiseled square	902.27
T. 60 N., R. 34 W., S. sixteenth cor. between secs. 13 and 14, 16 ft. N. and 25 ft. W. from T-rd. W., in top of N. head wall of concrete culvert; standard tablet stamped "Prim Trav Sta No 5 Mac 1923"	1,025.690
Reference mark, 60 ft. S. of T-rd. W., on top of W. end of concrete culvert; chiseled square	1,018.12
T. 60 N., R. 34 W., quarter cor. between secs. 13 and 24, NW. of T-rd. N., near T-rd. S.; top of N. end of iron pipe culvert	1,043.44
T. 60 N., R. 33 W., quarter cor. between secs. 18 and 19, about 100 ft. W. of crossroads, S. of rd., in root of 10-in. elm tree; copper nail and washer	1,081.23
T. 60 N., R. 33 W., cor. secs. 16, 17, 20, and 21, SE. of crossroads; top of E. end of iron pipe culvert	1,018.08
T. 60 N., R. 33 W., cor. secs. 16, 17, 20, and 21, 870 ft. E. of crossroads, 15 ft. S. of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 4 Mac 1923"	1,026.422
Reference mark, about 300 ft. W. of tablet, in root of 30-in. ash tree; copper nail and washer	1,023.77

(Continued in Clarksdale quadrangle; see line 3.)

2. WEST ALONG EAST HALF OF SOUTH BORDER OF QUADRANGLE (by W. H. Broadus in 1923)

T. 60 N., R. 32 W., cor. secs. 16, 17, 20, and 21, NE. of crossroads, 47 ft. N. 70° E. from N. end of tile culvert, in concrete post; standard tablet stamped "Prim Trav Sta No 66 S 1921 Mo"	1,005.364
Reference mark, 47 ft. S. 70° W. of tablet, on top of N. end of tile; chiseled square	1,005.05

	Feet
T. 60 N., R. 32 W., cor. secs. 17, 18, 19, and 20, 175 ft. W. of crossroads, N. of rd., 2 ft. N. of fence, in root on N. side of 12-in. elm tree; copper nail and washer	1,066.38
T. 60 N., R. 32 and 33 W., cor. secs. 13, 18, 19, and 24, 145 ft. W. of dim T-rd. N., S. of rd., in hedge fence line, in root on N. side of 30-in. elm tree; copper nail and washer	1,014.82
T. 60 N., R. 33 W., quarter cor. between secs. 13 and 24, NW. of crossroads, 5 ft. NW. of fence corner, in root on SE. side of 18-in. maple tree; copper nail and washer	1,024.80
T. 60 N., R. 33 W., cor. secs. 13, 14, 23, and 24, 20 ft. W. of rd. corner from E.-S., in line with rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 3 Mac 1923"	1,022.230
Reference mark, 84 ft. S. 2° W. of tablet, in root on N. side of 8-in. elm tree; copper nail and washer	1,016.85
T. 60 N., R. 33 W., 510 ft. E. of cor. secs. 14, 15, 22, and 23, 120 ft. E. of rd. at private lane N., in front of dwelling of A. P. Clancy, S. of rd., in root on NE. side of 24-in. wild-cherry tree; copper nail and washer	1,000.84
T. 60 N., R. 33 W., 340 ft. E. of cor. secs. 15, 16, 21, and 22, 980 ft. W. of crossroads, on top of E. end of S. head wall of concrete culvert; chiseled square	988.19

3. FROM MIDDLE OF EAST BORDER OF QUADRANGLE WEST AND SOUTH TO
MIDDLE OF SOUTH BORDER

(Continued from Darlington quadrangle; see line 5.)

T. 61 N., R. 32 W., 160 ft. W. of cor. secs. 3, 4, 9, and 10, at E.-W. jog in N.-S. rd., on top of S. head wall of concrete culvert; chiseled square	1,033.00
Top of hill	1,064.5
T. 61 N., R. 32 W., cor. secs. 4, 5, 8, and 9, 20 ft. W. of T-rd. E., 10 ft. N. of fence corner, 3 ft. W. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 19 Mac 1923"	1,061.463
Reference mark, 53 ft. SE. of tablet, on top of S. head wall of concrete culvert; chiseled square	1,060.03
T. 61 N., R. 32 W., N. sixteenth cor. between secs. 8 and 9, at T-rd. W.; top of S. head wall of concrete culvert	1,062.82
T-rd. E.; surface of rd.	1,038.0
T. 61 N., R. 32 W., W. sixteenth cor. sec. 8, 20 ft. S. and 20 ft. W. from crossroads; top of S. end of iron pipe culvert	1,018.96
T. 61 N., R. 32 W., E. sixteenth cor. sec. 7; top of N. head wall of concrete culvert	1,004.90
T. 61 N., R. 32 W., W. sixteenth cor. sec. 7, 70 ft. S. and 10 ft. W. from crossroads, on E. end of concrete walk to dwelling of I. V. Robertson; chiseled square	1,023.84
Drain; surface of rd.	973.0
Top of hill; surface of rd.	983.0
T. 61 N., R. 32 W., W. sixteenth cor. sec. 6, 10 ft. S. and 60 ft. E. from T-rd. S., in root on SW. side of 30-in. elm tree; copper nail and washer	935.24
Bridge; center of	944.0
T. 61 N., R. 33 W., center sec. 1, SE. of crossroads, at fence corner, in root on W. side of 18-in. hedge tree; copper nail and washer	998.37
T. 61 N., R. 33 W., E. sixteenth cor. sec. 2, 56 ft. W. of T-rd. E., 4 ft. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 20 Mac 1923"	1,008.251
Reference mark, 62 ft. NE. of tablet; top of W. end of iron pipe culvert	1,005.29
T-rd. W.; surface of rd.	1,036.0
T. 61 N., R. 33 W., E. sixteenth cor. sec. 11, 20 ft. S. and 40 ft. E. from crossroads, in root on N. side of 6-in. hedge tree; copper nail and washer	1,026.81
T. 61 N., R. 33 W., center of NE 1/4 sec. 14, 18 ft. W. of rd., at SE. corner of farmyard, in root on E. side of 30-in. maple tree; copper nail and washer	1,062.82
T-rd. E.; surface of rd.	1,039.1
T. 61 N., R. 33 W., near center of SE 1/4 sec. 14, SW. of T-rd. W., in root on N. side of 18-in. walnut tree; copper nail and washer	1,013.26
T. 61 N., R. 33 W., near N. sixteenth cor. sec. 23, 21 ft. W. of rd., 4 ft. NE. of fence corner, in concrete post; standard tablet stamped "B 1923 Mo"	1,034.835
Reference mark, 273 ft. N. 5° E. of tablet, on top of E. head wall of concrete culvert; chiseled square	1,019.52
T. 61 N., R. 33 W., quarter cor. between secs. 23 and 26, 20 ft. N. and 10 ft. W. from crossroads; top of W. end of iron pipe culvert	1,040.10
Top of hill; surface of rd.	1,066.5
T-rd. E.; surface of rd.	1,044.1
T. 61 N., R. 33 W., quarter cor. between secs. 26 and 35, 110 ft. N. and 25 ft. W. from crossroads, in root on S. side of 8-in. walnut tree; copper nail and washer	1,033.61
T. 61 N., R. 33 W., 220 ft. E. of cor. secs. 26, 27, 34, and 35, at bridge over Elm Grove Branch, on top of SE. wing wall; chiseled square	991.31
T. 61 N., R. 33 W., E. sixteenth cor. between secs. 27 and 34, 30 ft. S. and 40 ft. W. from T-rd. N., in root on NE. side of 24-in. maple tree; copper nail and washer	1,051.92
T. 61 N., R. 33 W., cor. secs. 27, 28, 33, and 34, 27 ft. N. and 45 ft. E. from crossroads, in concrete post; standard tablet stamped "B 1923 Mo"	1,054.119
Reference mark, 29 ft. N. 75° E. of tablet, in root on E. side of 42-in. maple tree; copper nail and washer	1,055.38

	Feet
Bridge; center of	1,025.8
T. 60 N., R. 33 W., N. cor. secs. 8 and 9, 27 ft. S. and 10 ft. E. from T-rd. S.; top of R. end of iron pipe culvert	1,062.63
T. 60 N., R. 33 W., cor. secs. 8, 9, 16, and 17, 320 ft. S. of crossroads, E. of rd., in root on NW. side of 12-in. wild-cherry tree; copper nail and washer	1,041.82

4. FROM POINT NEAR CENTER OF QUADRANGLE WEST AND SOUTH TO POINT NEAR SOUTHWEST CORNER

T. 61 N., R. 33 W., S. sixteenth cor. between secs. 2 and 3, 15 ft. S. and 20 ft. E. from crossroads; top of S. end of iron pipe culvert	1,045.99
T. 61 N., R. 33 W., S. sixteenth cor. sec. 3, NE. of T-rd. N.; top of N. end of iron pipe culvert	1,060.11
T. 61 N., R. 33 W., S. sixteenth cor. between secs. 3 and 4, 35 ft. S. and 30 ft. W. from rd. corner E.-S., in root on SE. side of 24-in. maple tree; copper nail and washer	1,057.25
Bridge; center of	1,041.7
T. 61 N., R. 33 W., quarter cor. between secs. 9 and 10, 210 ft. W. of crossroads, in fence line S. of rd., in root on N. side of 18-in. maple tree; copper nail and washer	1,076.93
Drain; surface of rd.	1,064.1
Drain; surface of rd.	1,062.0
T. 61 N., R. 33 W., E. sixteenth cor. sec. 8, 25 ft. W. of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 21 Mac 1923"	1,076.237
Reference mark, 185 ft. N. 88° E. of tablet, on top of N. head wall of concrete culvert; chiseled square	1,067.61
T. 61 N., R. 33 W., quarter cor. between secs. 5 and 8, in center of rd.; top of cornerstone	1,089.03
Top of hill; surface of rd.	1,058.0
T. 61 N., R. 33 and 34 W., cor. secs. 1, 6, 7, and 12, 30 ft. S. and 150 ft. E. from crossroads, in root on N. side of 18-in. ash tree; copper nail and washer	1,067.94
Top of hill; surface of rd.	1,067.0
T. 61 N., R. 34 W., cor. secs. 1, 2, 11, and 12, 30 ft. S. and 10 ft. E. from T-rd. S., in root on N. side of 16-in. black-oak tree; copper nail and washer	1,017.52
Top of hill; surface of rd.	1,026.0
T. 61 N., R. 34 W., cor. secs. 2, 3, 10, and 11, about 290 ft. E. of crossroads, 20 ft. N. of rd., 3 ft. S. of hedge fence, in concrete post; standard tablet stamped "Prim Trav Sta No 22 Mac 1923"	1,012.146
Reference mark, 330 ft. W. of tablet, in root on E. side of 10-in. elm tree; copper nail and washer	1,025.09
Bridge over Hickory Creek; 5 ft. E. of center	931.27
T-rd. W.; surface of rd.	937.7
T. 61 N., R. 34 W., 0.2 mi. S. of cor. secs. 10, 11, 14, and 15, 35 ft. S. and 36 ft. W. from T-rd. E., in root on W. side of 14-in. maple tree; copper nail and washer	999.10
Top of hill; surface of rd.	1,019.0
T. 61 N., R. 34 W., cor. secs. 14, 15, 22, and 23, 30 ft. S. and 15 ft. W. from T-rd. E., in concrete post; standard tablet stamped "B 1923 Mo"	1,019.401
Reference mark, 78 ft. N. 8° W. of tablet, in root on S. side of 18-in. sycamore tree; copper nail and washer	1,023.93
T. 61 N., R. 34 W., 120 ft. S. of quarter cor. between secs. 22 and 23, on top of W. head wall of concrete culvert; chiseled square	968.17
Junction of private lane W.; surface of rd.	984.0
Whitesville, about 0.8 mi. E. of quarter cor. between secs. 26 and 27, T. 61 N., R. 34 W., at SW. corner of crossroads, on concrete base of corner fence post; chiseled square	989.79
T. 61 N., R. 34 W., quarter cor. between secs. 34 and 35, 20 ft. N. and 30 ft. W. from T-rd. N., in root on W. side of 18-in. elm tree; copper nail and washer	981.34
T. 61 N., R. 34 W., near center sec. 34, 33 ft. N. and 13 ft. W. from T-rd. N., in concrete post; standard tablet stamped "B 1923 Mo"	980.363
Reference mark, 13 ft. S. 30° W. of tablet, in root on N. side of elm tree; copper nail and washer	979.95
T. 61 N., R. 34 W., about 0.1 mi. E. of quarter cor. between secs. 33 and 34, 85 ft. S. of rd. corner from E.-S., on top of E. head wall of concrete culvert; chiseled square	935.08
T. 60 N., R. 34 W., in NW 1/4 NW 1/4 sec. 9, about 400 ft. NE. of bridge over Platte River, 10 ft. S. and 50 ft. E. from T-rd. E., in root on N. side of 12-in. ash tree; copper nail and washer	900.72
Platte River, under bridge; surface of water at 2:30 p. m. Sept. 4, 1923	890.0
T. 60 N., R. 34 W., S. sixteenth cor. between secs. 8 and 9, 210 ft. N. and 15 ft. W. from T-rd. W., in root on N. side of 24-in. walnut tree; copper nail and washer	922.53
T. 60 N., R. 34 W., about 200 ft. S. of cor. secs. 8, 9, 16, and 17, opposite farmhouse, in root on W. side of 18-in. white-oak tree; copper nail and washer	1,001.04

5. NEAR MIDDLE OF WEST BORDER OF QUADRANGLE

T. 61 N., R. 34 W., E. sixteenth cor. between secs. 3 and 10, SW. of T-rd. S., in root on NW. side of 30-in. white-oak tree; copper nail and washer	954.56
T. 61 N., R. 34 W., quarter cor. between secs. 3 and 10, 25 ft. S. and 30 ft. W. from T-rd. N., in root (4 in. under ground) on S. side of 18-in. elm tree; copper nail and washer	919.04

T. 61 N., R. 34 W., about 0.2 mi. E. of cor. secs. 4, 5, 8, and 9, 5 ft. E. of front gate to farmhouse, 35 ft. S. of rd., in root on N. side of 30-in. maple tree; copper nail and washer	<u>Feet</u> 932.12
Cawood, Chicago Great Western R.R. at rd. crossing; top of W. rail	944.3

(Continued in Bolckow quadrangle; see line 1.)

6. IN SOUTHWEST CORNER OF QUADRANGLE

T. 60 N., R. 34 W., quarter cor. between secs. 19 and 20, 540 ft. E. of T-rd. S., 18 ft. W. of junction of private lane N., 15 ft. N. of rd., in root on S. side of 12-in. wild-cherry tree; copper nail and washer	1,062.81
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(Continued in Bolckow quadrangle; see line 2.)

7. FROM NORTHWEST CORNER OF QUADRANGLE SOUTH ABOUT 3 MILES (by E. J. Noonan in 1935)

(Continued from Farnell quadrangle; see line 3.)

Secs. 20 and 21, approximate quarter cor. between, 70 ft. N. and 70 ft. E. from, in root on NW. side of 12-in. locust tree; crossed nails	1,052.71
T. 63 N., R. 34 W., cor. secs. 20, 21, 28, and 29, 40 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 744 C W A 1934"	1,028.709
Reference mark, about 400 ft. E. of tablet, on top at E. end of S. head wall of concrete culvert; chiseled square	1,019.54
Dwelling, 80 ft. N. and 60 ft. W. from NW. corner of, 20 ft. from rd. at fences N.-S., in root on W. side of 10-in. walnut tree; crossed nails	1,034.63
T-rd. W., 65 ft. S. of, at E. end of S. abutment of steel bridge, in top of center of wooden piling; crossed nails	971.30
T. 63 N., R. 34 W., 250 ft. S. of approximate N. sixteenth cor. between secs. 32 and 33, on top of W. head wall of concrete culvert; chiseled square	974.33
Dwelling, 150 ft. N. and 50 ft. W. from NW. corner of, on top of E. head wall of concrete culvert; chiseled square	964.06
Tps. 62 and 63 N., R. 34 W., cor. secs. 4, 5, 32, and 33, 30 ft. S. and 130 ft. E. from T-rd. N., in root on N. side of 36-in. cottonwood tree; copper nail and washer	959.75
T-rd. S., 535 ft. W. of, 20 ft. N. of rd., in fence line, in root on S. side of 30-in. cottonwood tree; crossed nails	991.09

(Continued in Bolckow quadrangle; see line 7.)

8. FROM STANBERRY NORTHWEST ALONG STATE HIGHWAY 4 TO NORTH BORDER OF QUADRANGLE (by Charles E. Hunter in 1936)

U.S.C. & G.S. standard disk stamped "J 19 1933"	886.353
Wabash Ry. at wooden bridge, in NW. corner of; top of S. bolt	892.34
Stanberry, about 0.8 mi. W. of, along State Highway 4, 20 ft. S. and 20 ft. W. from cross rd., on S. head wall of concrete culvert; chiseled square	894.34
Junction of rd. N., 20 ft. N. and 15 ft. W. from, on W. head wall of concrete culvert; chiseled square	899.40
Stanberry, about 1.7 mi. W. of, along State Highway 4, on N. end of W. abutment of concrete bridge; chiseled square	905.10
Stanberry, 2.6 mi. NW. of, along State Highway 4, near center of N 1/2 sec. 35, T. 63 N., R. 33 W., 35 ft. S. and 370 ft. W. from junction of rd. N., in concrete post; standard tablet stamped "T T 740 C W A 1934"	914.278
U.S.C. & G.S. standard disk stamped "K 19 1933"	908.696
Junction of rd. W., 30 ft. E. of, on N. end of tile culvert; painted square	955.81
Stanberry, about 3.3 mi. W. of, along State Highway 4, 250 ft. S. and 15 ft. E. from junction of rd. E., on E. head wall of concrete culvert; chiseled square	979.81
Stanberry, about 4.2 mi. W. of, along State Highway 4, 75 ft. E. of junction of rd. E., on SE. head wall of concrete culvert; chiseled square	1,004.99
Junction of rd. N. on Gentry-Nodaway county line, on W. head wall of concrete culvert; chiseled square	978.98
Stanberry, about 5.2 mi. NW. of, along State Highway 4, 20 ft. N. and 225 ft. E. from junction of rd. N., on N. head wall of concrete culvert; chiseled square	962.64
Concrete bridge J-794, on N. end of W. abutment; chiseled square	936.09
Conception, about 3.4 mi. E. of, along State Highway 4, 5.8 mi. NW. of Stanberry, 35 ft. S. and 570 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "741 C W A 1934"	1,005.031
Conception, about 3 mi. E. of, along State Highway 4, 20 ft. N. and 15 ft. E. from cross rd., on E. head wall of concrete culvert; chiseled square	966.59
Junction of rd. N., 30 ft. S. and 180 ft. W. from, on W. end of iron pipe culvert; painted square	1,003.16
Conception, about 2 mi. E. of, along State Highway 4, 30 ft. S. and 20 ft. E. from junction of rd. S., on E. head wall of concrete culvert; chiseled square	1,019.44
Concrete culvert, on S. head wall of; chiseled square	1,059.10
Conception, about 1.2 mi. E. of, along State Highway 4, 45 ft. N. and 25 ft. W. from junction of rd. N., on W. head wall of concrete culvert; chiseled square	1,064.15

Conception, about 0.2 mi. E. of, along State Highway 4, 360 ft. N. and 410 ft. E. from cross rd., 45 ft. S. of highway at curve from E.-N., in concrete post; standard tablet stamped "742 C W A 1934" Feet
1,105.905

(Continued in Parnell quadrangle; see line 4.)

9. LINE TO DETERMINE ELEVATION OF WIEDERHOLT TRIANGULATION STATION

Conception, 3 mi. E., thence 1 mi. S. from, cor. secs. 28, 29, 32, and 33, T. 63 N., R. 33 W., 3 ft. S. and 35 ft. E. from T-rd. W., in root on SW. side of 10-in. elm tree; copper nail and washer 929.65
 Wiederholt triangulation sta., 3 mi. E., thence 1 mi. S. from Conception, in NW 1/4 sec. 33, T. 63 N., R. 33 W., on land owned by Mr. Wiederholt, on knoll in pasture, 75 paces N. of fence, 45 paces W. of wire fence on E. side of pasture, in concrete post; U.S.C. & G.S. standard disk stamped "Wiederholt" 1,054.485
 Reference mark 1, 102 ft. N. 50° E. of sta., in concrete post; U.S.C. & G.S. standard disk stamped "Wiederholt No 1 1934" 1,049.343
 Reference mark 2, 118 ft. S. 30° E. of sta., in concrete post; U.S.C. & G.S. standard disk stamped "Wiederholt No 2 1934" 1,049.378

10. FROM NORTHEAST CORNER OF QUADRANGLE SOUTHWEST TO STANBERRY, THENCE SOUTH AND EAST TO CENTER OF EAST BORDER (by J. Earl Brannan in 1936)

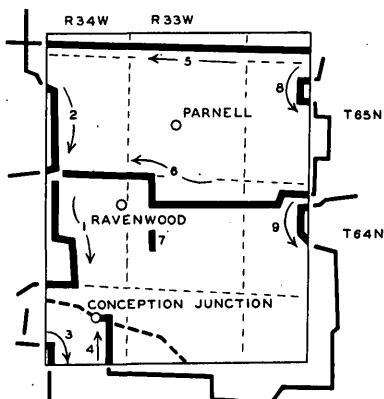
(Continued from Darlington quadrangle; see line 8.)

Junction of rd. N., 25 ft. N. and 15 ft. W. from, on W. head wall of concrete culvert; chiseled square 925.16
 T. 63 N., R. 32 W., approximate cor. secs. 20, 21, 28, and 29, on U.S. Highway 169, 60 ft. N. and 20 ft. W. from cross rd., in top of 3-in. hedge stump; copper nail and washer 987.89
 Junction of rd. N., about 150 ft. E. of, 20 ft. W. of private drive, on E. side of spillway; chiseled cross 1,001.59
 T. 63 N., R. 32 W., about 650 ft. S. of cor. secs. 19, 20, 29, and 30, 20 ft. E. of junction of U.S. Highway 169 and County Route B, on E. head wall of concrete culvert; chiseled square 985.17
 Concrete culvert, on W. head wall of; chiseled square 928.92
 T. 63 N., R. 32 W., approximate cor. secs. 29, 30, 31, and 32, on U.S. Highway 169, about 25 ft. N. and 70 ft. W. from cross rd., in root on E. side of 18-in. oak tree; copper nail and washer 944.69
 U.S.C. & G.S. standard disk stamped "J 19 1933" 886.353
 Tps. 62 and 63 N., R. 32 W., approximate quarter cor. between secs. 5 and 32, 150 ft. S. of U.S. Highway 169 at rd. junction, in root on N. side of 40-in. oak tree; copper nail and washer 930.93
 T. 62 N., R. 32 W., near center sec. 5, about 300 ft. S. of Wabash Ry. at crossing of U.S. Highway 169, 50 ft. W. of highway, in root on E. side of 18-in. elm tree; copper nail and washer 875.41
 Wildcat Creek, under bridge; surface of water at 11:45 a. m. Dec. 30, 1935 852.3
 Dwelling, 35 ft. W. of SW. corner of, about 30 ft. E. of rd., in root on W. side of 15-in. maple tree; crossed nails 883.22
 T. 62 N., R. 32 W., near center sec. 8, 30 ft. N. and 60 ft. W. from U.S. Highway 169 at cross rd., on N. head wall of concrete culvert; chiseled square 921.59
 Top of hill, about 500 ft. NW. of highway at cross rd., 16 ft. NE. of pavement, on top of N. side of spillway; chiseled square 972.76
 T. 62 N., R. 32 W., secs. 8, 9, 16, and 17, 650 ft. S. and 150 ft. W. from approximate cor. of, 52 ft. NE. of U.S. Highway 169 at curve from NW.-S., in concrete post; standard tablet stamped "T T 747 CWA 1934" 996.859
 Highway at E.-W. fence line, about 60 ft. N. of, 16 ft. W. of pavement, on top of S. side of spillway; chiseled square 927.40
 T. 62 N., R. 32 W., approximate cor. secs. 16, 17, 20, and 21, about 50 ft. E. of U.S. Highway 169 at rd. W., in root on S. side of 12-in. oak tree; copper nail and washer 943.25
 Junction of rd. E., about 15 ft. N. and 20 ft. E. from, on N. head wall of concrete culvert; chiseled square 987.08
 T. 62 N., R. 32 W., approximate cor. secs. 20, 21, 28, and 29, about 85 ft. S. and 30 ft. E. from, in root on S. side of 36-in. elm tree; copper nail and washer 1,003.73
 Junction of private drive, 75 ft. N. and 20 ft. W. from, in root on N. side of 12-in. cottonwood tree; crossed nails 1,041.18
 T. 62 N., R. 32 W., N. sixteenth cor. between secs. 32 and 33, 35 ft. N. and 30 ft. W. from, in concrete post; standard tablet stamped "T T 748 C W A 1934" 1,055.585
 Junction of rd. W., about 100 ft. N. and 60 ft. W. from, in root on E. side of 36-in. maple tree; crossed nails 1,055.38
 Ford City, 2 mi. W. of, near cor. secs. 3, 4, 9, and 10, T. 61 N., R. 32 W., 15 ft. S. and 120 ft. W. from T-rd. S., 15 ft. S. and 75 ft. E. from T-rd. N., on S. end of iron pipe culvert; painted square 1,029.91

(Continued in Darlington quadrangle; see line 9.)

For additional level lines along Wabash Ry. and Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Milan, Mo. to Hamburg, Iowa; and second-order line, Darlington to St. Joseph.

PARNELL QUADRANGLE
(Latitude 40°15'-40°30'; longitude 94°30'-94°45')
Gentry, Nodaway, and Worth Counties



1. SOUTH ALONG SOUTH PART OF WEST BORDER OF QUADRANGLE (by H. W. Gross in 1936)

	Feet
T. 65 N., R. 34 W., S. cor. secs. 32 and 33, 32 (? 28) ft. N. and 26 (? 24) ft. W. from T-rd. N., 7 ft. N. and 4 ft. W. from corner fence post, in concrete post; standard tablet stamped "720 C W A 1934"	1,105.450
Reference mark, 43 ft. S. and 225 ft. W. from tablet, in root on N. side of 12-in. elm tree; copper nail and washer	1,088.30
T. 64 N., R. 34 W., cor. secs. 4, 5, 8, and 9, 50 ft. N. and 10 ft. W. from crossroads, at SW. corner of bridge, in top of cap; copper nail and washer	1,077.24
T. 64 N., R. 34 W., cor. secs. 8, 9, 16, and 17, 190 ft. N. and 25 ft. W. from T-rd. E., in root on SE. side of 24-in. maple tree; copper nail and washer	1,132.76
Maryville, 6 mi. E. of, along State Highway 4, 35 ft. N. and 68 ft. W. from junction of rd. N., in concrete post; standard tablet stamped "721 C W A 1934"	1,064.089
Reference mark, 100 ft. E. of tablet, on NE. corner of concrete head wall of culvert; chiseled square	1,058.85
T. 64 N., R. 34 W., cor. secs. 15, 16, 21, and 22, 20 ft. N. and 350 ft. W. from State Highway 4 at cross rd., on top of N. head wall of culvert; chiseled square	1,085.62
T. 64 N., R. 34 W., cor. secs. 21, 22, 27, and 28, 50 ft. S. and 15 ft. W. from T-rd. W., on top of concrete head wall of culvert; chiseled square	1,091.09
T. 64 N., R. 34 W., cor. secs. 27, 28, 33, and 34, 40 ft. N. and 25 ft. W. from T-rd. N., in concrete post; standard tablet stamped "722 C W A 1934"	1,073.200
T-rd. S., 20 ft. N. of, in top of corner post; crossed nails	1,123.74
T. 64 N., R. 34 W., W. sixteenth cor. between secs. 28 and 33, 15 ft. S. and 260 ft. W. from T-rd. N., in root on N. side of 16-in. box-elder tree; copper nail and washer	1,114.96
Bridge, 25 ft. N. and 15 ft. E. from W. end of, in root on W. side of 15-in. hackberry tree; crossed nails	1,035.68

(Continued in Pickering quadrangle; see line 8.)

2. SOUTH ALONG NORTH PART OF WEST BORDER OF QUADRANGLE
(Continued from Pickering quadrangle; see line 6.)

T. 65 N., R. 34 W., cor. secs. 4, 5, 8, and 9, 50 ft. S. and 25 ft. E. from crossroads, in root on N. side of 10-in. crabapple tree; copper nail and washer	1,168.89
T-rd. E., SE. of, in root on SW. side of 20-in. maple tree; crossed nails	1,178.69
T. 65 N., R. 34 W., cor. secs. 8, 9, 16, and 17, 180 ft. S. and 25 ft. W. from crossroads, in root on E. side of 24-in. elm tree; copper nail and washer	1,184.85
T. 65 N., R. 34 W., cor. secs. 16, 17, 20, and 21, 33 ft. N. and 33 ft. W. from crossroads, in concrete post; standard tablet stamped "719 C W A 1934"	1,169.727
Culvert, on top of W. head wall; chiseled square	1,126.43
T. 65 N., R. 34 W., cor. secs. 20, 21, 28, and 29, 25 ft. N. and 20 ft. W. from crossroads, in root on N. side of 24-in. mulberry tree; copper nail and washer	1,135.07

T. 65 N., R. 34 W., cor. secs. 28, 29, 32, and 33, 280 ft. S. and 30 ft. E. from crossroads, in root on SW. side of 28-in. maple tree; copper nail and washer Feet
1,097.50

(Continued in Pickering quadrangle; see line 6.)

3. IN SOUTHWEST CORNER OF QUADRANGLE (by E. J. Noonan in 1936)

T. 63 N., R. 34 W., cor. secs. 16, 17, 20, and 21, 20 ft. N. and 45 ft. E. from T-rd. S., in root on E. side of 10-in. mulberry tree; copper nail and washer 1,106.51

(Continued in Stanberry quadrangle; see line 7.)

4. FROM SOUTH BORDER OF QUADRANGLE NORTH TO CONCEPTION JUNCTION

(by Charles E. Hunter in 1936)

(Continued from Stanberry quadrangle; see line 8.)

Conception, about 1 mi. N. of, along State Highway 4, 25 ft. N. and 45 ft. E. from cross rd., in base of telephone pole; spike 1,097.10
 Conception, about 1 mi. N., thence 0.7 mi. W. from, near W. sixteenth cor. between secs. 14 and 23, T. 63 N., R. 34 W., 10 ft. N. and 50 ft. E. from Chicago Great Western R.R. at rd. crossing, on NE. corner of S. wing wall of concrete culvert; chiseled square 969.99
 Conception Junction, about 0.8 mi. S. of, at E. end of bridge over drainage ditch, 30 ft. S. of rd., in concrete block; standard tablet (set by water-resources branch of U.S. Geol. Survey) 965.420
 Conception Junction, about 0.8 mi. W. of, cor. secs. 10, 11, 14, and 15, T. 63 N., R. 34 W., 24 ft. S. and 15 ft. W. from rd. at fences N.-S., in concrete post; standard tablet stamped "743 C W A 1934" 964.114
 U.S.C. & G.S. standard disk stamped "Q 19 1933" 1,001.182

5. WEST ALONG NORTH BORDER OF QUADRANGLE

T. 66 N., R. 32 W., E. sixteenth cor. between secs. 27 and 34, 25 ft. N. and 30 ft. W. from T-rd. N., in root on NE. side of 10-in. hickory tree; copper nail and washer 1,102.11
 T. 66 N., R. 32 W., cor. secs. 27, 28, 33, and 34, 15 ft. N. and 180 ft. E. from T-rd. S., in base of crooked 6-in. elm tree; copper nail and washer 1,012.48
 T-rd. N., 25 ft. S. and 30 ft. W. from, in root on N. side of 20-in. oak tree; crossed nails 947.71
 T. 66 N., R. 32 W., near E. sixteenth cor. between secs. 29 and 32, 15 ft. N. and 300 ft. W. from T-rd. N., in root on S. side of 12-in. hickory tree; copper nail and washer 977.50
 T. 66 N., R. 32 W., quarter cor. between secs. 29 and 32, 24 ft. S. and 18 ft. E. from T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 58 J S 1923 Mo" 1,064.106
 T. 66 N., R. 32 W., cor. secs. 29, 30, 31, and 32, 15 ft. N. and 30 ft. W. from T-rd. S., in root on N. side of 36-in. cottonwood tree; copper nail and washer 1,106.61
 T. 66 N., R. 32 W., 15 ft. S. and 50 ft. W. from W. cor. secs. 30 and 31, in root on NW. side of twin 10-in. maple tree; copper nail and washer 1,123.87
 T. 66 N., R. 33 W., near W. sixteenth cor. between secs. 25 and 36, 15 ft. S. and 30 ft. W. from State Highway 46 at cross rd., on S. head wall of concrete culvert; chiseled square 1,153.17
 T. 66 N., R. 33 W., near quarter cor. between secs. 26 and 35, on SE. corner of steel bridge over Platte River, on southeasternmost rivet of rocker plate; chiseled cross 1,030.40
 T. 66 N., R. 33 W., E. sixteenth cor. between secs. 27 and 34, 442 ft. W. of Chicago, Burlington & Quincy R.R., 15 ft. S. and 37 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 57 J S 1923 Mo" 1,036.400
 T. 66 N., R. 33 W., cor. secs. 27, 28, 33, and 34, 15 ft. N. and 930 ft. W. from T-rd. N., in root on S. side of 7-in. hedge tree; copper nail and washer 1,159.95
 T. 66 N., R. 33 W., cor. secs. 28, 29, 32, and 33, 15 ft. S. and 170 ft. E. from crossroads, in root on N. side of 6-in. oak tree; copper nail and washer 1,139.58
 T. 66 N., R. 33 W., cor. secs. 29, 30, 31, and 32, 21 (? 31) ft. S. and 27 ft. W. from T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 56 J S 1923 Mo" 1,081.952
 T. 66 N., R. 33 W., W. cor. secs. 30 and 31, 20 ft. S. and 140 ft. E. from T-rd. E., 40 ft. N. and 140 ft. E. from T-rd. W., in root on W. side of 8-in. hedge tree; copper nail and washer 1,166.74
 Gaynor, 30 ft. E. of NE. corner of general store, in root on NW. side of 30-in. maple tree; copper nail and washer 1,218.78
 T. 66 N., R. 34 W., cor. secs. 26, 27, 34, and 35, 18 ft. N. and 195 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 55 J S 1923 Mo" 1,215.609
 T. 66 N., R. 34 W., cor. secs. 27, 28, 33, and 34, 20 ft. S. and 25 ft. E. from crossroads, in root on N. side of 24-in. maple tree; copper nail and washer 1,173.61

6. WEST THROUGH CENTER OF QUADRANGLE

(Continued from Gentry quadrangle; see line 4.)

	Feet
T. 64 N., R. 32 W., in NE 1/4 sec. 9, 27 ft. N. and 25 ft. W. from T-rd. W., in concrete post; standard tablet stamped "735 C W A 1934"	1,048.206
T. 64 N., R. 32 W., about 660 ft. S. of N. cor. secs. 8 and 9, 40 ft. S. and 135 ft. W. from T-rd. E., in root on SE. side of 16-in. oak tree; copper nail and washer	979.88
T-rd. W., 40 ft. N. and 10 ft. W. from, in base of telephone pole; spike	1,004.95
T. 64 N., R. 32 W., quarter cor. between secs. 7 and 8, 25 ft. N. and 440 ft. E. from crossroads, in root on SE. side of 24-in. oak tree; copper nail and washer	994.14
Crossroads, 10 ft. S. and 65 ft. E. from, in base of telephone pole; spike	959.47
Enyart, in center SW 1/4 sec. 7, T. 64 N., R. 32 W., 20 ft. S. and 110 ft. W. from T-rd. N., in concrete post; standard tablet stamped "734 C W A 1934"	909.786
West Fork of Grand River, 0.2 mi. W. of Enyart, under bridge; surface of water at 4 p. m. Nov. 5, 1936	886.4
T. 64 N., R. 33 W., in SW 1/4 sec. 12, 340 ft. N. and 20 ft. E. from T-rd. E., in root on E. side of 10-in. hedge tree; copper nail and washer	939.10
T. 64 N., R. 33 W., near center sec. 11, 50 ft. N. and 190 ft. W. from T-rd. S., in root on S. side of 18-in. oak tree; copper nail and washer	922.89
T-rd. N., 15 ft. N. and 195 ft. E. from, in root on S. side of 6-in. oak tree; crossed nails	978.76
T. 64 N., R. 33 W., near center sec. 10, 30 ft. N. and 660 ft. W. from T-rd. S., in concrete post; standard tablet stamped "733 C W A 1934"	1,028.674
T. 64 N., R. 33 W., near center sec. 9, 25 ft. N. and 130 ft. E. from T-rd. S., in root on SE. side of 24-in. elm tree; copper nail and washer	1,013.76
T. 64 N., R. 33 W., near quarter cor. between secs. 8 and 9, 15 ft. S. and 85 ft. W. from crossroads, in root on W. side of 14-in. oak tree; copper nail and washer	1,090.24
T. 64 N., R. 33 W., near S. sixteenth cor. between secs. 7 and 8, 20 ft. S. and 75 ft. E. from T-rd. E., in root on NE. side of 6-in. hedge tree; copper nail and washer	1,105.50
T. 64 N., R. 33 W., N. sixteenth cor. between secs. 7 and 8, 90 ft. N. and 46 ft. E. from, in concrete post; standard tablet stamped "732 C W A 1934"	1,134.651
T. 64 N., R. 33 W., near quarter cor. between secs. 5 and 6, 15 ft. N. and 25 ft. E. from State Highway 46 at rd. E., on E. end of N. head wall of concrete culvert; chiseled square	1,122.97
T. 64 N., R. 33 W., N. cor. secs. 5 and 6, 15 ft. S. and 20 ft. W. from State Highway 46 at cross rd., on W. end of S. head wall of concrete culvert; chiseled square	1,125.40
T. 64 N., R. 33 W., near NW. cor. sec. 6, 65 ft. S. and 405 ft. E. from rd. forks, in root on S. side of 20-in. elm tree; copper nail and washer	999.73
Platte River; surface of water at 1 p. m. Nov. 11, 1936	983.0
Tps. 64 and 65 N., R. 34 W., cor. secs. 1, 2, 35, and 36, 22 ft. S. and 48 ft. E. from crossroads, in concrete post; standard tablet stamped "731 C W A 1934"	1,022.370
T. 64 N., R. 34 W., N. cor. secs. 2 and 3, 20 ft. S. and 30 ft. E. from T-rd. S., in root on SE. side of 10-in. wild-cherry tree; copper nail and washer	1,107.14
T. 64 N., R. 34 W., N. cor. secs. 3 and 4, 30 ft. S. and 145 ft. W. from T-rd. S., 30 ft. S. of T-rd. N., in yard of Harmony Church, in root on N. side of 18-in. elm tree; copper nail and washer	1,166.17

7. LINE TO DETERMINE ELEVATION OF RAVENWOOD TRIANGULATION STATION

T. 64 N., R. 33 W., quarter cor. between secs. 17 and 18, 20 ft. E. of T-rd. W., in root on SW. side of 7-in. hedge tree; copper nail and washer	1,145.50
Ravenwood triangulation sta., about 0.8 mi. S. and 1.8 mi. E. from Ravenwood, in NW 1/4 sec. 20, T. 64 N., R. 33 W., on land owned by J. McMullen, in pasture, on top of hill, about 900 ft. S. of rd., W. of fence, in concrete post; U.S.C. & G.S. standard disk stamped "Ravenwood 1934"	1,141.346
Reference mark 1, 71 ft. N. of sta., in concrete post; U.S.C. & G.S. standard disk stamped "Ravenwood No 1"	1,142.020
Reference mark 2, 83 ft. S. of sta., in concrete post; U.S.C. & G.S. standard disk stamped "Ravenwood No 2"	1,139.116

8. NEAR MIDDLE OF NORTH HALF OF EAST BORDER OF QUADRANGLE

(Continued from Gentry quadrangle; see line 4.)

T. 65 N., R. 32 W., near E. sixteenth cor. sec. 16, 15 ft. S. and 5 ft. W. from T-rd. N., in root on W. side of 14-in. cherry tree; copper nail and washer	1,132.30
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(Continued in Gentry quadrangle; see line 4.)

9. SOUTH NEAR MIDDLE OF EAST BORDER OF QUADRANGLE (leveled once by J. Earl Brannan in 1935 and once by Charles E. Hunter in 1936)
(Continued from Gentry quadrangle; see line 5.)

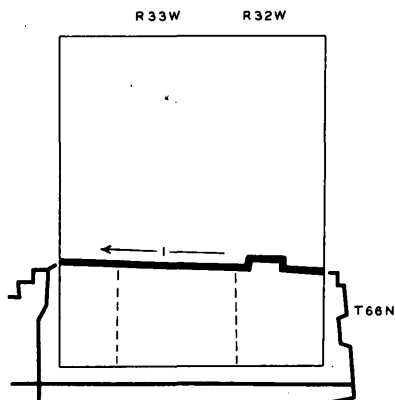
	Feet
T. 64 N., R. 32 W., in NE 1/4 sec. 9, 27 ft. N. and 25 ft. W. from T-rd. W., in concrete post; standard tablet stamped "735 C W A 1934"	1,048.206
Reference mark, 790 ft. S. of tablet, in root on N. side of 40-in. elm tree; copper nail and washer	1,049.31
Junction of lane to barn, 25 ft. E. of, in root on W. side of 15-in. elm tree; crossed nails	1,045.81
T. 64 N., R. 32 W., near E. sixteenth cor. between secs. 9 and 16, 85 ft. S. and 25 ft. E. from crossroads, in root on W. side of twin 40-in. maple tree; copper nail and washer	1,077.17
Wooden culvert, about 15 ft. S. and 30 ft. E. from, in root on S. side of 30-in. elm tree; crossed nails	1,048.90
T. 64 N., R. 32 W., near E. sixteenth cor. between secs. 16 and 21, 30 ft. N. and 100 ft. E. from T-rd. N., in root on W. side of 15-in. elm tree; copper nail and washer	1,051.60

(Continued in Gentry quadrangle; see line 6.)

For an additional level line along Wabash Ry., refer to United States Coast and Geodetic Survey first-order line, Milan, Mo. to Hamburg, Iowa.

BEDFORD QUADRANGLE *
(Latitude $40^{\circ}30' - 40^{\circ}45'$; longitude $94^{\circ}30' - 94^{\circ}45'$)

Nodaway and Worth Counties



1. FROM EAST BORDER OF QUADRANGLE WEST ALONG IOWA-MISSOURI STATE LINE TO WEST BORDER (by Charles E. Hunter in 1936)

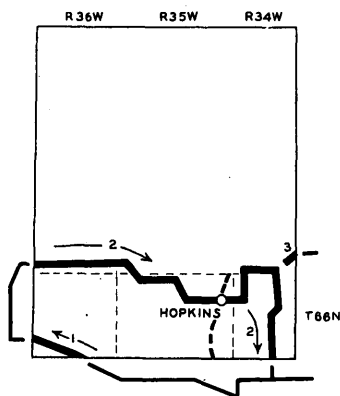
T-rd. S., 15 ft. S. and 95 ft. E. from, in W. side of 12-in. locust stump; crossed nails	1,137.05
T. 67 N., R. 32 W., near N. quarter cor. sec. 34, 15 ft. S. and 515 ft. E. from T-rd. N. on Iowa-Mo. State line, in root on N. side of 24-in. cottonwood tree; copper nail and washer	1,150.00
T-rd. S., 15 ft. N. and 160 ft. W. from, in root on E. side of 14-in. box-elder tree; crossed nails	1,094.92
T. 67 N., R. 32 W., near N. quarter cor. sec. 33, 50 ft. N. and 35 ft. E. from T-rd. N. on Iowa-Mo. State line, in root on S. side of 8-in. cedar tree; copper nail and washer	1,070.69
Athelstan, 33 ft. S. and 10 ft. W. from T-rd. N., on Iowa-Mo. State line, in concrete post; standard tablet stamped "762 C W A 1934"	1,092.554
Athelstan, about 0.6 mi. W. of, along Iowa-Mo. State line, 55 ft. S. and 340 ft. W. from rd. corner; (mark not described)	1,073.74
T. 67 N., R. 32 W., near W. sixteenth cor. on N. line sec. 31, 15 ft. N. and 35 ft. W. from rd. corner on Iowa-Mo. State line, in W. side of 8-in. elm tree; spike	1,054.40
Rd. fork SW., 20 ft. N. and 65 ft. E. from, in root on SE. side of 8-in. oak tree; crossed nails	1,067.74
T. 67 N., R. 33 W., near W. sixteenth cor. on N. line sec. 36, 15 ft. N. and 10 ft. E. from center of rd. on Iowa-Mo. State line, in root on SE. side of 5-in. elm tree; copper nail and washer	1,171.95
T. 67 N., R. 33 W., near N. cor. secs. 35 and 36, 22 ft. S. and 590 ft. E. from T-rd. S. on Iowa-Mo. State line, in concrete post; standard tablet stamped "763 C W A 1934"	1,201.662

*The greater part of this quadrangle lies in Iowa.

T. 67 N., R. 33 W., near N. quarter cor. sec. 35, 120 ft. S. and 65 ft. W. from T-rd. S. on Iowa-Mo. State line, in root on N. side of 14-in. oak tree; copper nail and washer	<u>Feet</u> 1,128.69
T. 67 N., R. 33 W., near N. quarter cor. sec. 34, 15 ft. N. and 280 ft. E. from T-rd. S. on Iowa-Mo. State line, on NW. side of 8-in. walnut tree; spike	1,197.25
T. 67 N., R. 33 W., near N. quarter cor. sec. 33, 20 ft. N. and 15 ft. W. from T-rd. N. on Iowa-Mo. State line, on W. end of concrete culvert; (mark not described)	1,187.10
Rowe triangulation sta., about 3.8 mi. N. and 1.5 mi. W. from Sheridan, in NW 1/4 NW 1/4 sec. 33, T. 67 N., R. 33 W., 25 ft. S. of rd., on Iowa-Mo. State line, on property of E. S. Rowe, in concrete post; U.S.C. & G.S. standard disk stamped "Rowe 1934"	1,223.400
Reference mark 1, 77 ft. NE. of sta., in concrete post; U.S.C. & G.S. standard disk stamped "Rowe No 1 1934"	1,224.815
Reference mark 2, 78 ft. NW. of sta., in concrete post; U.S.C. & G.S. standard disk stamped "Rowe No 2 1934"	1,223.708
T. 67 N., R. 33 W., near N. cor. secs. 32 and 33, 880 ft. E. of T-rd. S., 18 ft. S. of rd. on Iowa-Mo. State line, in concrete post; standard tablet stamped "764 C W A 1934"	1,223.636
T. 67 N., R. 33 W., near N. quarter cor. sec. 32, 50 ft. S. and 195 ft. E. from T-rd. N. on Iowa-Mo. State line, in root on SE. side of 14-in. elm tree; copper nail and washer	1,160.82
T. 67 N., R. 33 W., near E. sixteenth cor. on N. line sec. 31, on Iowa-Mo. State line, at SW. corner of steel bridge over Honey Creek, on southwesternmost rivet of rocker plate; chiseled cross	1,091.444
T. 67 N., Rs. 33 and 34 W., N. cor. secs. 31 and 36, 25 ft. N. and 200 ft. W. from T-rd. S. on Iowa-Mo. State line, in root on N. side of 24-in. maple tree; copper nail and washer	1,165.044
T-rd. N., 15 ft. S. and 10 ft. E. from, in base of telephone pole; spike	1,212.85
T. 67 N., R. 34 W., N. cor. secs. 35 and 36, 20 ft. S. and 230 ft. W. from T-rd. S. on Iowa-Mo. State line, in concrete post; standard tablet stamped "765 C W A 1934"	1,189.659
T-rd. N., 10 ft. S. and 20 ft. E. from, on S. end of concrete culvert; (mark not described)	1,174.04
T. 67 N., R. 34 W., 20 ft. N. and 620 ft. E. from N. cor. secs. 34 and 35, on Iowa-Mo. State line, in root on N. side of 18-in. box-elder tree; copper nail and washer	1,162.56
T. 67 N., R. 34 W., near N. cor. secs. 33 and 34, 25 ft. N. of rd. on Iowa-Mo. State line, in fork of twin 12-in. willow tree; copper nail and washer	1,165.93

NEW MARKET QUADRANGLE
(Latitude 40°30'-40°45'; longitude 94°45'-95°00')

Nodaway County



1. IN SOUTHWEST CORNER OF QUADRANGLE (by H. W. Gross in 1936)
(Continued from Pickering quadrangle; see line 5.)

T. 66 N., R. 36 W., N. sixteenth cor. sec. 28, 25 ft. S. and 30 ft. E. from T-rd. E., in root on S. side of 10-in. wild-cherry tree; copper nail and washer	1,013.13
Bridge over N. fork of Clear Creek, at SW. corner of, on top of rivet in bearing plate; chiseled cross	968.45

*The greater part of this quadrangle lies in Iowa.

T. 66 N., R. 36 W., in NE 1/4 sec. 29, 18 ft. N. and 50 ft. W. from dwelling of C. T. McDermott, 25 ft. from rd., in root on W. side of 14-in. walnut tree; copper nail and washer Foot
1,046.15

(Continued in Coin quadrangle; see line 1.)

2. FROM WEST BORDER OF QUADRANGLE EAST ALONG IOWA-MISSOURI STATE LINE TO EAST BORDER, THENCE SOUTH TO SOUTHEAST CORNER
(Continued from Coin quadrangle; see line 1.)

T. 67 N., R. 36 W., NE 1/4 sec. 32, 30 ft. N. of rd. at top of hill, 100 ft. S. and 20 ft. W. from SW. corner of farmhouse, in root on S. side of 20-in. maple tree; copper nail and washer 1,110.31
 Rd. at fence S., 20 ft. S. and 10 ft. W. from, on top of concrete base of brace post; painted square 1,129.89
 T. 67 N., R. 36 W., quarter cor. between secs. 33 and 34, 35 ft. S. and 45 ft. E. from crossroads, in root on NW. side of 18-in. maple tree; copper nail and washer 1,176.66
 Farmhouse, 50 ft. N. and 6 ft. W. from, 35 ft. S. of rd., in root on NW. side of 38-in. maple tree; crossed nails 1,179.59
 T. 67 N., R. 36 W., quarter cor. between secs. 34 and 35, 35 (? 25) ft. S. and 380 ft. E. from rd. at fences N.-S., in concrete post; standard tablet stamped "711 C W A 1934" 1,166.746
 T-rd. N., 20 ft. S. and 75 ft. W. from, in root on NW. side of twin 6-in. locust tree; crossed nails 1,159.87
 T-rd. S., 30 ft. S. and 35 ft. E. from, in root on NE. side of 11-in. elm tree; crossed nails 1,118.30
 T. 67 N., R. 36 W., about 400 ft. W. of quarter cor. between secs. 35 and 36, 50 ft. S. and 30 ft. E. from farmhouse, 35 ft. N. of rd., in root on SW. side of 18-in. maple tree; copper nail and washer 1,135.68
 Bridge, 40 ft. N. and 80 ft. E. from, in root on E. side of 18-in. post-oak tree; crossed nails 1,064.06
 Top of hill, 15 ft. N. of rd., about 400 ft. W. of dim T-rd. S., in root on S. side of 14-in. walnut tree; crossed nails 1,148.65
 T. 67 N., Rs. 35 and 36 W., quarter cor. between secs. 31 and 36, 60 ft. S. and 5 ft. W. from rd. at fence N., 200 ft. W. of fence S., at head of wooded ravine, in root on NW. side of 25-in. elm tree; copper nail and washer 1,141.78
 Bridge, at SE. corner of, in top of cap; crossed nails 1,119.24
 T. 67 N., R. 35 W., quarter cor. between secs. 31 and 32, 30 ft. S. and 35 ft. W. from crossroads, in concrete post; standard tablet stamped "712 C W A 1934" 1,143.962
 T-rd. W., at SE. corner of bridge, in top of cap; crossed nails 1,127.41
 T. 67 N., R. 35 W., S. quarter cor. sec. 32, 310 ft. N. and 20 ft. W. from T-rd. N., in root on NE. side of 20-in. elm tree; copper nail and washer 1,192.15
 Prairie Star School, 1 ft. N. and 6 ft. W. from NE. corner of, on concrete step; chiseled square 1,180.10
 T. 67 N., R. 35 W., in SW 1/4 sec. 33, at NW. corner of bridge, in top of cap; copper nail and washer 1,100.28
 Tps. 66 and 67 N., R. 35 W., on line between secs. 3 and 34, 25 ft. S. and 15 ft. W. from T-rd. W., on top of concrete head wall of culvert; chiseled square 1,047.32
 Hopkins, 2 mi. W. of, in W 1/2 sec. 3, T. 66 N., R. 35 W., 45 ft. N. and 33 ft. E. from T-rd. N., in concrete post; standard tablet stamped "713 C W A 1934" 1,033.257
 Bridge over West Fork of One Hundred and Two River, at NE. corner of, on top of rivet in bearing plate; chiseled cross 1,035.62
 Hopkins, about 1.2 mi. W. of, quarter cor. between secs. 2 and 3, T. 66 N., R. 35 W., 25 ft. N. and 8 ft. E. from T-rd. W., on top of concrete head wall of culvert; chiseled square 1,044.07
 Hopkins, about 0.3 mi. W. of, in SE 1/4 sec. 2, T. 66 N., R. 35 W., at SW. corner of bridge over East Fork of One Hundred and Two River, in bearing plate, on top of rivet; chiseled cross 1,041.41
 Hopkins, 45 ft. S. and 55 ft. E. from State Highway 27 at Barnard Street, 45 ft. S. and 55 ft. W. from Chicago, Burlington & Quincy R.R. at crossing of Barnard Street, in concrete post; standard tablet stamped "714 C W A 1934" 1,047.770
 U.S.C. & G.S. standard disk stamped "C 81 1935" 1,047.475
 U.S.C. & G.S. standard disk stamped "D 81 1935" 1,044.693
 T-rd. S., SE. of, in top of corner post; crossed nails 1,121.63
 Hopkins, about 0.7 mi. E. of, in NW 1/4 sec. 6, T. 66 N., R. 34 W., 50 ft. S. of SE. corner of farmhouse, 40 ft. N. of rd., in root on SW. side of 16-in. pine tree; copper nail and washer 1,158.58
 T-rd. E., 55 ft. N. and 20 ft. W. from, in top of fence post; crossed nails 1,150.65
 Hopkins, about 1 mi. E. and 0.8 mi. N. from, S. sixteenth cor. sec. 31, T. 67 N., R. 34 W., 18 ft. W. of T-rd. E., in top of oak fence post; copper nail and washer 1,126.80
 Hopkins, 0.8 mi. N. and 2 mi. E. from, 25 ft. S. and 360 ft. W. from center of SW 1/4 sec. 32, T. 67 N., R. 34 W., 5 ft. S. and 30 ft. E. from gatepost, in concrete post; standard tablet stamped "715 C W A 1934" 1,188.624
 T-rd. W., SW. of, in root on W. side of 14-in. maple tree; crossed nails 1,150.33
 T. 67 N., R. 34 W., N. quarter cor. sec. 32, 15 ft. S. and 80 ft. E. from T-rd. E. on Iowa-Mo. State line, in root on N. side of twin 11-in. post-oak tree; copper nail and washer 1,155.40

T. 67 N., R. 34 W., N. quarter cor. sec. 33, 28 (? 20) ft. S. and 28 (? 20) ft. W. from T-rd. S. on Iowa-Mo. State line, in concrete post; standard tablet stamped "716 C W A 1934"	Feet 1,199.854
T. 67 N., R. 34 W., S. quarter cor. sec. 33, 20 ft. S. and 20 ft. E. from T-rd. N., 110 ft. W. of T-rd. S., in root on W. side of 10-in. mulberry tree; copper nail and washer	1,208.65
T. 66 N., R. 34 W., quarter cor. between secs. 4 and 9, 50 ft. S. and 10 ft. E. from crossroads, in root on NW. side of 24-in. maple tree; copper nail and washer	1,197.76
T. 66 N., R. 34 W., quarter cor. between secs. 9 and 16, SW. of T-rd. N., in root on N. side of 11-in. elm tree; copper nail and washer	1,097.24
T. 66 N., R. 34 W., cor. secs. 8, 9, 16, and 17, 35 ft. N. and 12 ft. E. from T-rd. S., in concrete post; standard tablet stamped "717 C W A 1934"	1,138.045
T. 66 N., R. 34 W., cor. secs. 16, 17, 20, and 21, 180 ft. S. and 15 ft. W. from T-rd. E., 15 ft. N. and 8 ft. W. from center of bridge, in top of cap; copper nail and washer	1,063.87 1,128.39
T-rd. W., NW. of, in root on S. side of 8-in. elm tree; crossed nails	
T. 66 N., R. 34 W., cor. secs. 20, 21, 28, and 29, 70 ft. N. and 20 ft. W. from crossroads, in root on S. side of 10-in. post-oak tree; copper nail and washer	1,140.69

(Continued in Pickering quadrangle; see line 5.)

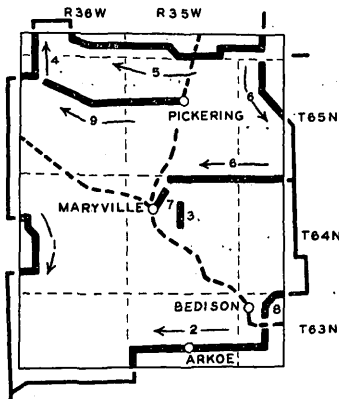
3. NEAR EAST BORDER OF QUADRANGLE AT IOWA-MISSOURI STATE LINE

Ditto triangulation sta., in NE 1/4 sec. 33, T. 67 N., R. 34 W., 50 ft. S. end 102 ft. E. from E.-W. rd. on Iowa-Mo. State line at yard fence, 100 ft. N. and 140 ft. E. from farmhouse, in barn lot, in concrete post; U.S.C. & G.S. standard disk stamped "Ditto 1934"	1,221.369
Reference mark 1, 55 ft. S. and 100 ft. W. from sta., in concrete post; U.S.C. & G.S. standard disk stamped "Ditto No 1 1934"	1,220.925
Reference mark 2, 70 ft. N. and 95 ft. W. from sta., in concrete post; U.S.C. & G.S. standard disk stamped "Ditto No 2 1934"	1,221.590

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Maryville, Mo. to Merle Jct., Iowa.

PICKERING QUADRANGLE
(Latitude 40°15' - 40°30'; longitude 94°45' - 95°00')

Nodaway County



1. SOUTH NEAR MIDDLE OF WEST BORDER OF QUADRANGLE (by E. J. Noonan in 1935)

(Continued from Skidmore quadrangle; see line 2.)

T-rd. S., about 600 ft. W. of, at E. end of steel bridge, in S. pier, on top of S. bolt head; chiseled cross	996.52
T-rd. N., about 0.4 mi. N. of, 20 ft. W. of rd., in N.-S. fence line, in root on E. side of 24-in. elm tree; crossed nails	1,041.49
T. 64 N., R. 36 W., near quarter cor. between secs. 18 and 19, 32 ft. N. and 35 ft. W. from T-rd. N., in concrete post; standard tablet stamped "703 C W A 1934"	1,042.633
Reference mark, 425 ft. E. of tablet, in root on W. side of 18-in. oak tree; copper nail and washer	1,014.66

	<u>Feet</u>
T-rd. S., about 600 ft. W. of, on top of S. head wall of concrete culvert; chiseled square	991.31
T-rd. S., about 0.2 mi. S. of, 20 ft. W. of rd., at post in N.-S. fence line; surface of ground	1,001.89
Crossroads, about 0.4 mi. N. of, 20 ft. E. of rd., in N.-S. fence line, in W. side of telephone pole; spike	1,093.48
T. 64 N., R. 36 W., near E. sixteenth cor. between secs. 19 and 30, 30 ft. S. and 20 ft. E. from crossroads, in root on N. side of 20-in. hedge tree; copper nail and washer	1,105.88
T. 64 N., R. 36 W., near E. sixteenth cor. sec. 30, 20 ft. N. and 30 ft. E. from T-rd. N., in root on W. side of 30-in. hedge tree; copper nail and washer	1,056.97
T-rd. S., 20 ft. N. and 35 ft. W. from, in S. side of telephone pole; spike	1,087.54
Crossroads, about 0.2 mi. N. of, 30 ft. E. of rd., in root on W. side of 18-in. elm tree; crossed nails	1,117.02
T. 64 N., R. 36 W., cor. secs. 29, 30, 31, and 32, 63 ft. N. and 40 ft. W. from crossroads, in concrete post; standard tablet stamped "702 C W A 1934"	1,106.780
Reference mark, 200 ft. W. of tablet, 35 ft. S. and 35 ft. W. from SW. corner of school, in root on E. side of 24-in. box-elder tree; copper nail and washer	1,112.85
Crossroads, about 0.4 mi. W. of, 20 ft. S. of rd., in root on E. side of 20-in. cherry tree; crossed nails	1,111.99
Crossroads, about 0.4 mi. E. of, on top of W. end of S. head wall of concrete culvert; chiseled square	1,056.96

(Continued in Skidmore quadrangle; see line 2.)

2. WEST ALONG SOUTH BORDER OF QUADRANGLE

U.S.C. & G.S. standard disk stamped "T 19 1933"	1,049.447
Wooden bridge over creek, 25 ft. N. and 12 ft. E. from, in root on W. side of 20-in. willow tree; crossed nails	1,023.08
T. 63 N., R. 34 W., near cor. secs. 7, 8, 17, and 18, 35 ft. N. and 32 ft. E. from T-rd. N., in concrete post; standard tablet stamped "T 724 C W A 1934"	1,017.045
T-rd. S., 250 ft. S. and 15 ft. W. from, in root on E. side of 20-in. elm tree; crossed nails	1,093.81
Rd. corner from N.-W., 20 ft. N. and 8 ft. E. from, in W. side of telephone pole; spike	1,080.30
Wooden bridge over drain, 50 ft. S. and 20 ft. E. from, in root on W. side of 24-in. elm tree; crossed nails	1,078.42
Swinford School, 153 ft. S. and 12 ft. W. from SE. corner of, in root on S. side of 12-in. post-oak tree; copper nail and washer	1,092.85
T. 63 N., R. 34 W., near W. sixteenth cor. between secs. 17 and 20, 150 ft. E. of T-rd. N., 30 ft. N. and 100 ft. W. from NW. corner of Long Branch Church, in root on E. side of 14-in. hickory tree; copper nail and washer	1,113.17
T. 63 N., R. 34 W., near W. sixteenth cor. between secs. 17 and 20, 350 ft. E. of T-rd. N., 30 ft. N. and 100 ft. E. from NW. corner of Long Branch Church, in root on S. side of 18-in. post-oak tree; copper nail and washer	1,112.73
T-rd. N., about 0.5 mi. W. of, at W. end of steel bridge, in S. pier, on top of W. bolt head; chiseled cross	1,006.07
T. 63 N., R. 34 and 35 W., cor. secs. 13, 18, 19, and 24, 40 ft. N. and 105 ft. E. from crossroads, 30 ft. N. and 35 ft. E. from SW. corner of dwelling, in root on S. side of 36-in. maple tree; copper nail and washer	1,125.49
Crossroads, about 0.3 mi. W. of, on top of N. head wall of concrete culvert; chiseled square	1,065.67
Crossroads, about 0.6 mi. W. of, 30 ft. S. of rd., in root on W. side of 18-in. maple tree; crossed nails	1,107.05
Wooden bridge over drain, on W. end of N. wing wall of W. abutment; chiseled square	1,028.34
T. 63 N., R. 35 W., cor. secs. 13, 14, 23, and 24, 30 (? 35) ft. S. and 35 ft. E. from crossroads, in concrete post; standard tablet stamped "725 C W A 1934"	1,084.204
Reference mark, 60 ft. S. of tablet, in root on W. side of 12-in. hedge tree; copper nail and washer	1,082.37
Crossroads, 20 ft. S. and 45 ft. E. from, in root on S. side of 15-in. poplar tree; crossed nails	1,048.83
One Hundred and Two River, in N. pier at W. end of steel bridge over, on top of N. bolt head; chiseled cross	961.12
Arkoe, in front of feed store, on top of concrete foundation of gasoline pumps; chiseled square	978.20
Arkoe. W. of Chicago, Burlington & Quincy R.R. at rd. crossing, at W. door on N. side of school, on top of NW. corner of step; chiseled square	996.01
T. 63 N., R. 35 W., cor. secs. 15, 16, 21, and 22, 70 ft. N. and 20 ft. E. from crossroads, on top of S. end of concrete base of transmission-line pole; chiseled square	1,011.26
Crossroads, about 0.3 mi. W. of, in N. side of transmission-line pole; spike	1,032.04
Crossroads, about 0.6 mi. W. of, 40 ft. S. of rd., in root on N. side of 30-in. maple tree; crossed nails	1,089.26
T. 63 N., R. 35 W., cor. secs. 16, 17, 20, and 21, 30 ft. S. and 195 ft. W. from, in concrete post; standard tablet stamped "726 C W A 1934"	1,075.362
Reference mark, 535 ft. W. of tablet, on top of S. head wall of concrete culvert; chiseled square	1,048.36

T. 63 N., R. 35 W., quarter cor. between secs. 17 and 20, 28 ft. N. and 8 ft. W. from U.S. Highway 71 at cross rd., on top of W. edge of pavement; chiseled square	Feet 1,115.21
T. 63 N., R. 35 W., cor. secs. 17, 18, 19, and 20, 25 ft. S. and 180 ft. W. from crossroads, in root on N. side of twin 20-in. cottonwood tree; copper nail and washer	1,059.57
Crossroads, about 0.4 mi. W. of, on top of S. head wall of concrete culvert; chiseled square	1,090.29
T. 63 N., R. 35 and 36 W., about 0.1 mi. E. of cor. secs. 13, 18, 19, and 24, 20 ft. N. and 60 ft. E. from T-rd. S., in root on N. side of 20-in. oak tree; copper nail and washer	1,106.32
Rd. corner from N.-W., about 250 ft. N. and 80 ft. E. from, in root on W. side of 18-in. mulberry tree; crossed nails	1,105.36

(Continued in Bolckow quadrangle; see line 6.)

3. LINE TO DETERMINE ELEVATION OF WATER-RESOURCES GAGE ABOUT 2.3 MILES EAST OF MARYVILLE

U.S.C. & G.S. standard disk stamped "Y 19 1933"	1,048.686
Maryville, in front of Chicago, Burlington & Quincy R.R. sta., on foundation of semaphore; top of NE. bolt	1,038.77
Maryville, 1.4 mi. E. of courthouse, along State Highway 4, at underpass crossing of Wabash Ry., about 30 ft. N. of highway, on W. head wall of pipe culvert under track; chiseled square	997.31
Maryville, 2.3 mi. E. of courthouse, along State Highway 4, about 150 ft. N. of W. end of bridge over One Hundred and Two River at Maryville softening and purification plant, in SW. corner of concrete intake along W. bank of river; standard tablet (set by water-resources branch of U.S. Geol. Survey)	981.224

4. IN NORTHWEST CORNER OF QUADRANGLE (by H. W. Gross in 1936)

(Continued from Skidmore quadrangle; see line 6.)

T. 65 N., R. 36 W., near E. sixteenth cor. between secs. 6 and 7, 30 ft. N. and 25 ft. E. from T-rd. N., in root on SW. side of 11-in. elm tree; copper nail and washer	1,128.08
T. 66 N., R. 36 W., S. cor. secs. 32 and 33, 35 ft. N. and 20 ft. W. from T-rd. N., 120 ft. W. of T-rd. S., in root on NE. side of 16-in. wild-cherry tree; copper nail and washer	1,121.78
Top of hill, near farmhouse, 25 ft. W. of rd., in root on SE. side of 20-in. locust tree; crossed nails	1,093.04
T. 66 N., R. 36 W., cor. secs. 28, 29, 32, and 33, 20 ft. S. and 40 ft. W. from T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 50 L S 1923 Mo"	1,066.298
Reference mark, 40 ft. N. and 12 ft. W. from tablet, in root on SW. side of 20-in. elm tree; copper nail and washer	1,060.39
Bridge over Clear Creek, at NE. corner of, on top of rivet on bearing plate; chiseled cross	968.45

5. WEST ALONG NORTH BORDER OF QUADRANGLE

(Continued from New Market quadrangle; see line 2.)

T. 66 N., R. 34 W., cor. secs. 28, 29, 32, and 33, 60 ft. S. and 35 ft. E. from crossroads, in root on W. side of 11-in. maple tree; copper nail and washer	1,158.39
T. 66 N., R. 34 W., cor. secs. 29, 30, 31, and 32, 25 ft. S. and 65 ft. E. from rd. at fences N.-S., at deep cut on top of hill, in concrete post; standard tablet stamped "Prim Trav Sta No 54 L S 1923 Mo"	1,116.312
T. 66 N., R. 34 W., near W. cor. secs. 30 and 31, 35 ft. S. and 20 ft. E. from T-rd. E., in root on N. side of 26-in. elm tree; copper nail and washer	1,158.98
T. 66 N., R. 35 W., in E 1/2 sec. 36, 230 ft. S. and 20 ft. E. from T-rd. W., in root on W. side of 18-in. maple tree; copper nail and washer	1,171.48
T. 66 N., R. 35 W., in E 1/2 sec. 35, 125 ft. N. and 20 ft. E. from T-rd. E., on S. end of E. head wall of culvert; chiseled square	1,054.98
U.S.C. & G.S. standard disk stamped "Z 80 1935"	1,024.263
T. 66 N., R. 35 W., in NW 1/4 sec. 35, about 0.1 mi. S. of State Highway 27 at rd. W., 14 ft. N. and 7 ft. W. from S. end of Chicago, Burlington & Quincy R.R. bridge 49.89, in top of cap; copper nail and washer	1,017.49
U.S.C. & G.S. standard disk stamped "A 81 1935"	1,028.902
T. 66 N., R. 35 W., in NW 1/4 sec. 35, 300 ft. N. and 10 ft. W. from State Highway 27 at rd. W., 3 ft. S. of expansion joint, on W. edge of pavement; chiseled square	1,018.47
T. 66 N., R. 35 W., in NE 1/4 sec. 34, 10 ft. N. and 205 ft. W. from steel bridge over One Hundred and Two River, 30 ft. N. of rd. forks, in concrete post; standard tablet stamped "Prim Trav Sta No-53 L S 1923 Mo"	1,017.553
Reference mark, at SW. corner of bridge, on top of bolt in bearing plate; chiseled cross	1,021.13
Rd. forks, about 200 ft. NW. of, on top of N. head wall of culvert; chiseled square	1,086.69
T. 66 N., R. 35 W., cor. secs. 27, 28, 33, and 34, 165 ft. S. and 20 ft. W. from T-rd. W., 45 ft. NE. of rd., in root on W. side of 10-in. box-elder tree; copper nail and washer	1,119.35
T. 66 N., R. 35 W., cor. secs. 28, 29, 32, and 33, 90 ft. S. and 20 ft. E. from crossroads, in root on N. side of 11-in. hackberry tree; copper nail and washer	1,150.08

Feet

Bridge, at SE. corner of, in top of cap; crossed nails	1,110.24
T. 66 N., R. 35 W., cor. secs. 29, 30, 31, and 32, 30 ft. S. and 30 ft. E. from crossroads, 55 ft. N. and 200 ft. W. from Clyde School, in NW. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 52 L S 1923 Mo"	1,141.221
T. 66 N., R. 35 and 36 W., cor. secs. 25, 30, 31, and 36, 100 ft. S. and 20 ft. E. from crossroads, in root on E. side of 12-in. hedge tree; copper nail and washer	1,183.98
Bridge, at NE. corner of, on top of concrete wing wall; chiseled square	1,116.26
T. 66 N., R. 36 W., cor. secs. 25, 26, 35, and 36, 35 ft. S. and 50 ft. E. from crossroads, in root on NW. side of 12-in. catalpa tree; copper nail and washer	1,187.56
T-rd. E., 300 ft. S. and 20 ft. W. from, in root on SE. side of 11-in. maple tree; crossed nails	1,171.85
T. 66 N., R. 36 W., quarter cor. between secs. 26 and 27, 35 ft. N. and about 240 ft. E. from crossroads, in root on S. side of maple tree; copper nail and washer	1,105.67
T. 66 N., R. 36 W., in E 1/2 sec. 27, 55 ft. S. of front door of dwelling of C. L. Clouse, 20 ft. N. of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 51 L S 1923 Mo"	1,139.300
T. 66 N., R. 36 W., quarter cor. between secs. 27 and 28, about 300 ft. N. of T-rd. E., 15 ft. E. of rd., on top of concrete head wall of culvert; chiseled square	1,057.29

(Continued in New Market quadrangle; see line 1.)

6. FROM NORTHEAST CORNER OF QUADRANGLE SOUTH TO POINT NEAR MIDDLE OF EAST BORDER, THENCE WEST TO POINT NEAR CENTER

T. 66 N., R. 34 W., S. cor. secs. 32 and 33, 15 ft. N. and 235 ft. W. from T-rd. N., on top of concrete head wall of culvert; chiseled square	1,149.41
T-rd. S., 35 ft. N. and 120 ft. W. from, in root on SE. side of 20-in. maple tree; crossed nails	1,179.63
T. 65 N., R. 34 W., cor. secs. 5, 6, 7, and 8, 30 ft. S. and 33 ft. W. from crossroads, in NE. corner of yard of Mozingo Valley School, in concrete post; standard tablet stamped "718 C W A 1934"	1,100.396

(For balance in Parnell quadrangle, see line 2.)

T. 64 N., R. 34 W., N. cor. secs. 5 and 6, 85 ft. S. and 25 ft. E. from T-rd. S., in root on W. side of 11-in. elm tree; copper nail and washer	1,135.71
Tps. 64 and 65 N., R. 34 and 35 W., cor. of, 30 ft. S. and 40 ft. W. from T-rd. S., in root on N. side of 16-in. hickory tree; copper nail and washer	1,091.36
Bridge, at SW. corner of, in top of cap; crossed nails	1,043.31
T. 65 N., R. 35 W., S. quarter cor. sec. 36, 30 ft. W. of rd. forks, on top of wing wall at NE. corner of concrete culvert; chiseled square	1,082.00
T-rd. S., SW. of, on top of concrete head wall of culvert; chiseled square	1,155.38
T. 65 N., R. 35 W., S. cor. secs. 35 and 36, 20 ft. N. and 60 ft. E. from T-rd. N., in root on SW. side of 36-in. cottonwood tree; copper nail and washer	1,125.24
T-rd. S., NE. of, in root on S. side of twin 14-in. locust tree; crossed nails	1,140.70
Tps. 64 and 65 N., R. 35 W., 25 ft. S. and 380 ft. E. from cor. secs. 2, 3, 34, and 35, in concrete post; standard tablet stamped "730 C W A 1934"	1,029.000
T. 64 N., R. 35 W., near N. quarter cor. sec. 3, at NE. corner of steel bridge over One Hundred and Two River, on top of anchorbolt; chiseled cross (set by water-resources branch of U.S. Geol. Survey)	993.50
T. 64 N., R. 35 W., near N. quarter cor. sec. 3, 80 ft. N. and 15 ft. E. from NE. corner of bridge over One Hundred and Two River, in W. side of 36-in. stump; spike	990.55
T-rd. N., NE. of, on top of SW. side of concrete base of corner fence post; chiseled square	997.38
U.S.C. & G.S. standard disk stamped "Maryville South Base 1934"	1,007.751
U.S.C. & G.S. standard reference disk stamped "Maryville South Base No 1 1934"	1,006.806
U.S.C. & G.S. standard reference disk stamped "Maryville South Base No 2 1934"	1,006.484

7. FROM MARYVILLE NORTH ABOUT 2 MILES ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD

Chicago, Burlington & Quincy R.R. bridge 58.87, at NE. corner of, on top of wing wall; chiseled square	1,017.76
Rd. crossing, 22 ft. S. and 145 ft. W. from, in root on S. side of 11-in. hedge tree; copper nail and washer	1,017.80
U.S.C. & G.S. standard disk stamped "y 80 1935"	1,002.557

8. SOUTH NEAR BEDISON, IN SOUTHEAST QUARTER OF QUADRANGLE
(Continued from Parnell quadrangle; see line 1.)

T. 64 N., R. 34 W., cor. secs. 29, 30, 31, and 32, 195 ft. S. and 35 ft. W. from crossroads, in root on NE. side of 24-in. maple tree; copper nail and washer	1,109.45
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T. 64 N., R. 34 W., center of SE 1/4 sec. 31, 42 ft. S. and 25 ft. E. from rd. at fences E.-W., 3 ft. W. of hedge fence, in concrete post; standard tablet stamped "723 C W A 1934"	Feet 1,140.703
T-rd. N., 165 ft. W. of, on top of N. head wall of concrete culvert; chiseled square	1,109.18
T. 65 N., R. 34 W., N. quarter cor. sec. 6, 40 ft. S. and 35 ft. W. from T-rd. S., in root on NE. side of 22-in. mulberry tree; copper nail and washer	1,131.50
T. 65 N., R. 34 W., near center sec. 6, 20 ft. S. and 80 ft. E. from T-rd. N., in root on N. side of 24-in. mulberry tree; copper nail and washer	1,108.36
Wabash Ry. at rd. crossing, 25 ft. S. and 30 ft. W. from, in N. side of telegraph pole; spike	1,076.41

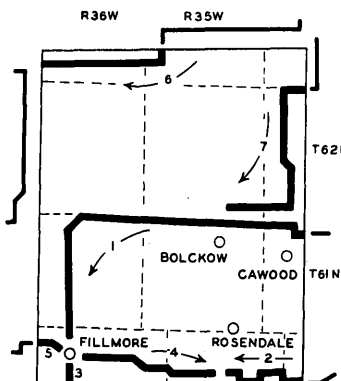
9. FROM PICKERING WEST TO WEST BORDER OF QUADRANGLE

U.S.C. & G.S. standard disk stamped "Y 80 1935"	1,022.377
Pickering, 15 ft. N. and 40 ft. E. from State Highway 27 at Main Street, on top of concrete head wall of culvert; chiseled square	1,072.97
Pickering, at NW. limits of, near center sec. 9, T. 65 N., R. 35 W., 12 ft. S. and 45 ft. E. from State Highway 27 at cross rd., on top of S. head wall of culvert; chiseled square	1,042.83
T. 65 N., R. 35 W., in E 1/2 sec. 8, 35 ft. S. and 30 ft. E. from crossroads, in root on E. side of 14-in. elm tree; copper nail and washer	1,087.78
Crossroads, NE. of, in W. side of telephone pole; spike	1,156.22
T. 65 N., R. 35 W., in E 1/2 sec. 7, 12 ft. N. of rd., on top of head wall of culvert; chiseled square	1,154.24
T. 65 N., R. 35 W., W. quarter cor. sec. 7, 12 ft. N. and 500 ft. E. from T-rd. E. in top of concrete head wall of culvert; standard tablet stamped "8 G 1936"	1,165.995
T. 65 N., R. 36 W., quarter cor. between secs. 11 and 12, about 600 ft. E. of crossroads, 15 ft. N. and 35 ft. E. from rd. at drain, in root on S. side of 10-in. black-locust tree; copper nail and washer	1,122.43
T. 65 N., R. 36 W., in W 1/2 sec. 11, at SW. corner of steel bridge, on top of corner rivet in bearing plate; chiseled cross	1,054.21
T. 65 N., R. 36 W., center sec. 10, 650 ft. N. of rd. corner from E.-N., 12 ft. W. of rd., in top of concrete head wall of culvert; standard tablet stamped "9 G 1936"	1,149.174 1,150.34
T-rd. W., on S. head wall of culvert; chiseled square	
T. 65 N., R. 36 W., N. sixteenth cor. between secs. 9 and 10, 525 ft. E. of T-rd. S., on top of concrete head wall of culvert; chiseled square	1,127.64
Bridge, 8 ft. S. and 10 ft. E. from center of, in top of cap; crossed nails	1,035.83
T. 65 N., R. 36 W., in NW 1/4 sec. 9, 125 ft. W. of T-rd. E., in fence line, in root on E. side of 14-in. oak tree; copper nail and washer	1,106.92
T-rd. W., 50 ft. S. and 60 ft. W. from, in root on N. side of 16-in. black-locust tree; crossed nails	1,050.70 993.18
Steel bridge, at SE. corner of, on top of bolt in pier; chiseled cross	
T. 65 N., R. 36 W., quarter cor. between secs. 5 and 8, 30 ft. N. and 165 ft. E. from T-rd. S., in root on NW. side of 12-in. hickory tree; copper nail and washer	1,029.14
T-rd., 20 ft. N. and 75 ft. W. from, in root on S. side of 8-in. oak tree; crossed nails	1,138.46

For additional level lines along Wabash Ry. and Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Milan, Mo. to Hamburg, Iowa; and second-order line, Maryville to Merle Jct., Iowa.

BOLCKOW QUADRANGLE
(Latitude $40^{\circ}00' - 40^{\circ}15'$; longitude $94^{\circ}45' - 95^{\circ}00'$)

Andrew and Nodaway Counties



1. FROM MIDDLE OF EAST BORDER OF QUADRANGLE WEST THROUGH CENTER TO POINT NEAR WEST BORDER, THENCE SOUTH TO FILLMORE (by W. R. Broadus in 1923-24)

(Continued from Stanberry quadrangle; see line 5.)

Cawood, about 0.4 mi. W. of, quarter cor. between secs. 5 and 8, T. 61 N., R. 34 W., 20 ft. S. and 45 ft. W. from crossroads, in root on E. side of 30-in. mulberry tree; copper nail and washer	Feet 972.84
Bolckow, 0.5 mi. N. of N. limits of, N. cor. secs. 2 and 3, T. 61 N., R. 35 W., 15 ft. N. of T-rd. S. on Andrew-Nodaway county line, 310 ft. E. of Chicago, Burlington & Quincy R.R. at rd. crossing, in concrete post; standard tablet stamped "Prim Trav Sta No 24 Mac 1923 Mo"	929.577
Reference mark, 192 ft. S. 18° W. of tablet, in root on W. side of 8-in. ash tree; copper nail and washer	928.78
Chicago, Burlington & Quincy R.R. at rd. crossing; top of rail	928.7
T. 61 N., R. 35 W., about 0.2 mi. W. of N. quarter cor. sec. 3, 18 ft. S. and 15 ft. W. from junction of private lane N. on Andrew-Nodaway county line, on E. bank of old bed of One Hundred and Two River, in root on W. side of 30-in. black-oak tree; copper nail and washer	923.70
T. 61 N., R. 35 W., about 0.3 mi. W. of N. cor. secs. 3 and 4, 15 ft. N. and 47 ft. W. from State Highway 27 at cross rd. on Andrew-Nodaway county line, in root on SW. side of 14-in. maple tree; copper nail and washer	933.77
T. 61 N., R. 35 W., 0.2 mi. W. of N. cor. secs. 4 and 5, 25 ft. N. and 110 ft. W. from T-rd. S. on Andrew-Nodaway county line, in fence line, in root on N. side of 6-in. locust tree; copper nail and washer	972.47
T. 61 N., R. 35 W., 0.3 mi. W. of N. quarter cor. sec. 5, at T-rd. N. on Andrew-Nodaway county line; top of cornerstone	1,045.39
T. 61 N., R. 35 W., N. quarter cor. sec. 6, 160 ft. S. and 12 ft. W. from T-rd. S. on Andrew-Nodaway county line, in root on NE. side of 24-in. elm tree; copper nail and washer	974.66
Tps. 61 and 62 N., Rs. 35 and 36 W., cor. of, 20 ft. S. and 40 ft. W. from T-rd. N. on Andrew-Nodaway county line, 70 ft. NE. of dwelling, 3 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 25 Mac 1923 Mo"	1,030.129
Reference mark, 170 ft. S. 35° W. of tablet, in root on W. side of 20-in. maple tree; copper nail and washer	1,027.97
T. 61 N., R. 36 W., N. quarter cor. sec. 1, 150 ft. E. of T-rd. S. on Andrew-Nodaway county line, 5 ft. N. of rd., on top of concrete culvert 18 in. S. of N. head wall; chiseled square	949.52
Tps. 61 and 62 N., R. 36 W., cor. secs. 1, 2, 35, and 36, 25 ft. NE. of T-rd. N. on Andrew-Nodaway county line, in root on S. side of 30-in. maple tree; copper nail and washer	991.80
Tps. 61 and 62 N., R. 36 W., cor. secs. 2, 3, 34, and 35, 40 ft. SW. of crossroads on Andrew-Nodaway county line, in root on NW. side of 30-in. maple tree; copper nail and washer	1,012.42
T. 61 N., R. 36 W., N. cor. secs. 3 and 4, 24 ft. NE. of T-rd. S., 42 ft. NE. of T-rd. N. on Andrew-Nodaway county line, 36 ft. SW. of SW. corner of church, in concrete post; standard tablet stamped "Prim Trav Sta No 26 Mac 1923 Mo"	987.356
Reference mark, 13 ft. N. 65° W. of tablet, in root on S. side of maple tree; copper nail and washer	987.61
Tps. 61 and 62 N., R. 36 W., cor. secs. 4, 5, 32, and 33, 150 ft. N. and 15 ft. E. from T-rd. E. on Andrew-Nodaway county line, in root on SE. side of 24-in. elm tree; copper nail and washer	911.59
T. 61 N., R. 36 W., E. sixteenth cor. sec. 5, 20 ft. S. and 15 ft. W. from rd. corner E.-S., in root on NW. side of 16-in. ash tree; copper nail and washer	931.29

T. 61 N., R. 36 W., center of SE 1/4 sec. 5, 55 ft. E. of T-rd. W., in root on W. side of 24-in. maple tree; copper nail and washer	<u>Feet</u> 987.37
T. 61 N., R. 36 W., cor. secs. 4, 5, 8, and 9, 240 ft. E. of T-rd. S., on top of S. head wall of concrete culvert; chiseled square	926.45
T. 61 N., R. 36 W., cor. secs. 8, 9, 16, and 17, 25 ft. E. of T-rd. W., in concrete post; standard tablet stamped "B 1923 Mo"	871.001
Reference mark, 86 ft. N. 80° W. of tablet, on top of N. head wall of concrete culvert; chiseled square	871.71
T. 61 N., R. 36 W., about 0.1 mi. N. of cor. secs. 16, 17, 20, and 21, 65 ft. SE. of SE. corner of dwelling of W. L. Lightle, 35 ft. W. of rd., in root on SE. side of 24-in. box-elder tree; copper nail and washer	948.63
T. 61 N., R. 36 W., quarter cor. between secs. 20 and 21, 12 ft. N. and 20 ft. W. from crossroads, on top of N. head wall of concrete culvert; chiseled square	880.28
T. 61 N., R. 36 W., near N. sixteenth cor. between secs. 28 and 29, at top of hill, on bottom concrete step leading to dwelling of C. A. Christian; chiseled square	971.96
T. 61 N., R. 36 W., cor. secs. 28, 29, 32, and 33, 60 ft. N. and 265 ft. W. from crossroads, at front entrance to North Star School, in SW. corner of top concrete step; standard tablet stamped "B 1924 Mo"	989.533
Reference mark, 26 ft. N. 50° E. of tablet, in root on SW. side of 24-in. elm tree; copper nail and washer	886.36
T. 60 N., R. 36 W., cor. secs. 5, 6, 7, and 8, 20 ft. S. and 150 ft. W. from T-rd. W., in root on N. side of 20-in. sycamore tree; copper nail and washer	959.72
Fillmore, at crossing of main streets, on top at NW. corner of platform of town pump; chiseled square	942.25

2. IN SOUTHEAST CORNER OF QUADRANGLE (by W. R. Broadbuss in 1924)
(Continued from Stanberry quadrangle; see line 6.)

T. 60 N., R. 34 W., about 430 ft. W. center sec. 19, 20 ft. N. and 75 ft. W. from T-rd. N., in root on NE. side of 18-in. locust tree; copper nail and washer	1,036.78
T. 60 N., R. 35 W., quarter cor. between secs. 13 and 24, 15 ft. N. and 95 ft. E. from T-rd. S., opposite cemetery, in root on S. side of 10-in. elm tree; copper nail and washer	1,053.06
T. 60 N., R. 35 W., E. sixteenth cor. between secs. 14 and 23, 35 ft. NE. of T-rd. NE., in concrete post; standard tablet stamped "Prim Trav Sta No 7 Mac 1923 Mo"	968.676
Reference mark, 48 ft. S. 15° E. of tablet, in root on N. side of 16-in. white-oak tree; copper nail and washer	962.09
One Hundred and Two River, under bridge; surface of water at 9:30 a. m. Sept. 28, 1923	879.0
T. 60 N., R. 35 W., 200 ft. S. of cor. secs. 14, 15, 22, and 23, 30 ft. NW. of rd. corner from E.-S., in root on S. side of 12-in. elm tree; copper nail and washer	963.99
T. 60 N., R. 35 W., quarter cor. between secs. 22 and 23, 220 ft. N. of T-rd. W., 25 ft. E. of rd., in root on SW. side of 48-in. elm tree; copper nail and washer	978.91
T. 60 N., R. 35 W., on line between secs. 15 and 22, on W. bank of One Hundred and Two River, 520 ft. E. of Chicago Great Western R.R. at rd. crossing, 10 ft. E. of T-rd. W., in root on SW. side of 30-in. bur-oak tree; copper nail and washer	898.97
T. 60 N., R. 35 W., on line between secs. 15 and 22, 520 ft. E. of Chicago Great Western R.R. at rd. crossing, 30 ft. N. of T-rd. W., on top of E. head wall of concrete culvert; chiseled square	897.47

3. FROM SOUTH BORDER OF QUADRANGLE NORTH TO FILLMORE
(Continued from St. Joseph quadrangle; see line 4.)

T. 60 N., R. 36 W., quarter cor. between secs. 19 and 20, 120 ft. SE. of T-rd. E., in top of E. end of second concrete step in front of Stone Church School; standard tablet stamped "B 1924 Mo"	906.950
Reference mark, 39 ft. S. 85° W. of tablet, in root on N. side of 24-in. tree; copper nail and washer	902.63
T. 60 N., R. 36 W., cor. secs. 17, 18, 19, and 20, 35 ft. N. and 20 ft. E. from T-rd. W., in root on S. side of 24-in. maple tree; copper nail and washer	928.03

4. FROM FILLMORE EAST NEAR SOUTH BORDER OF QUADRANGLE TO POINT
ABOUT 2 MILES SOUTH OF ROSENDALE

T. 60 N., R. 36 W., 290 ft. W. of cor. secs. 8, 9, 16, and 17, opposite farmhouse at top of hill, 30 ft. N. of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 10 Mac 1923 Mo"	1,014.970
Reference mark, 97 ft. S. 20° E. of tablet, in root on NE. side of 30-in. locust tree; nail and washer	1,016.24
T. 60 N., R. 36 W., cor. secs. 9, 10, 15, and 16, 50 ft. N. and 130 ft. W. from T-rd. W., in root on SW. side of 30-in. cottonwood tree; nail and washer	1,078.57
T. 60 N., R. 36 W., E. sixteenth cor. between secs. 10 and 15, 30 ft. N. and 20 ft. E. from T-rd. N., in root on W. side of 7-in. hickory tree; nail and washer	1,047.38
T. 60 N., R. 36 W., quarter cor. between secs. 11 and 14, 40 ft. N. and 20 ft. E. from crossroads, in root on W. side of 8-in. hedge tree; nail and washer	969.59

T. 60 N., R. 36 W., center sec. 14, 12 ft. W. of T-rd. E., in W. wall of concrete culvert; standard tablet stamped "Prim Trav Sta No 9 Mac 1923 Mo"	Feet
Reference mark, 124 ft. N. 20° E. of tablet, in root on W. side of 12-in. walnut tree; nail and washer	966.117
T. 60 N., R. 36 W., E. quarter cor. sec. 13, 70 ft. S. and 25 ft. W. from T-rd. W., in root on S. side of 5-in. locust tree; nail and washer	969.94
T. 60 N., R. 36 W., E. cor. secs. 13 and 24, 25 ft. E. of T-rd. W., at crossroads, in root on N. side of 18-in. locust tree; nail and washer	1,045.05
T. 60 N., R. 35 W., approximate cor. secs. 17, 18, 19, and 20, 10 ft. N. and 60 ft. E. from T-rd. S., in root on W. side of 8-in. locust tree; copper nail and washer	1,055.73
T. 60 N., R. 35 W., quarter cor. between secs. 17 and 20, 30 ft. SW. of crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 8 Mac 1923 Mo"	1,044.25
Reference mark, 47 ft. E. of tablet, in root on S. side of 10-in. elm tree; copper nail and washer	1,040.693
T. 60 N., R. 35 W., in NE 1/4 sec. 21, 350 ft. from Fairview Church, 120 ft. N. and 40 ft. E. from T-rd. E., in root on SW. side of 20-in. white-oak tree; copper nail and washer	1,037.41
	976.05

5. FROM FILLMORE WEST TO WEST BORDER OF QUADRANGLE

T. 60 N., Rs. 36 and 37 W., cor. secs. 7, 12, 13, and 18, 300 ft. E. of T-rd. S., in bench on N. side of 42-in. elm tree; copper nail and washer	895.31
(Continued in Maitland quadrangle; see line 3.)	

6. WEST ALONG WEST HALF OF NORTH BORDER OF QUADRANGLE (by E. J. Noonan in 1935)
(Continued from Pickering quadrangle; see line 2.)

T. 63 N., Rs. 35 and 36 W., cor. secs. 19, 24, 25, and 30, 25 ft. S. of T-rd. N., in concrete post; standard tablet stamped "727 C W A 1934"	1,051.472
Reference mark, 405 ft. W. of tablet, in root on E. side of 40-in. elm tree; copper nail and washer	1,068.28
Bridge over White Cloud Creek, at top of S. post under W. end of bridge seat, on top of W. rivet; chiseled cross	998.78
T. 63 N., R. 36 W., near cor. secs. 23, 24, 25, and 26, about 400 ft. W. of crossroads, 25 ft. S. of rd., in root on S. side of 12-in. hickory tree; copper nail and washer	1,081.34
Dwelling, about 90 ft. N. and 75 ft. W. from NW. corner of, in root on S. side of 20-in. wild-cherry tree; crossed nails	1,115.64
T. 65 N., R. 36 W., cor. secs. 22, 23, 26, and 27, 45 ft. N. of crossroads, on top of E. head wall of concrete culvert; chiseled square	1,034.95
Swan Chapel Church, in front of, on top of SE. corner of concrete platform; chiseled square	1,086.27
Wooden bridge over drain, at NE. corner of; top of floor	1,003.2
T. 63 N., R. 36 W., secs. 21, 22, 27, and 28, 33 ft. N. and 643 ft. W. from cor. of, in concrete post; standard tablet stamped "728 C W A 1934"	1,066.161
Barn, 45 ft. N. and 10 ft. E. from SE. corner of, in root on S. side of 30-in. maple tree; crossed nails	1,101.80
T. 63 N., R. 36 W., cor. secs. 20, 21, 28, and 29, 35 ft. N. and 30 ft. W. from crossroads, in root on W. side of 24-in. maple tree; copper nail and washer	1,059.35
Rd. corner from N.-W., 90 ft. E. of, in root on N. side of 18-in. elm tree; crossed nails	1,080.99
T. 63 N., R. 36 W., N. sixteenth cor. between secs. 29 and 30, about 200 ft. E. of crossroads, on top of S. head wall of iron pipe culvert; chiseled square	1,013.92
Steel bridge over drain, 60 ft. N. and 40 ft. E. from E. end of, in root on NE. side of 24-in. walnut tree; crossed nails	955.37

7. SOUTH ALONG NORTH HALF OF EAST BORDER OF QUADRANGLE, THENCE WEST TO POINT ABOUT 1 MILE NORTH OF BOLCKOW (by E. J. Noonan and H. W. Gross in 1935-36)
(Continued from Stanberry quadrangle; see line 7.)

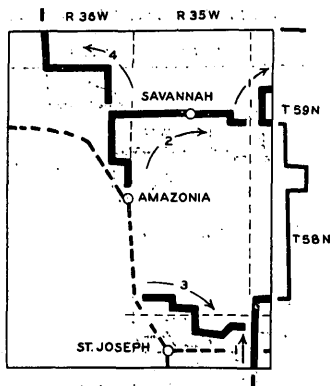
Tps. 62 and 63 N., R. 34 W., cor. secs. 5, 6, 31, and 32, 480 ft. S. and 18 ft. E. from crossroads, in concrete post; standard tablet stamped "745 C W A 1934"	1,095.336
Reference mark, 125 ft. S. of tablet, in root on NW. side of 10-in. maple tree; copper nail and washer	1,096.48
T-rd. E., 300 ft. S. of, 20 ft. W. of rd., in root on E. side of 36-in. maple tree; crossed nails	1,042.14
T. 62 N., R. 34 W., cor. secs. 5, 6, 7, and 8, 725 ft. S. and 85 ft. E. from crossroads, in root on S. side of 12-in. oak tree; copper nail and washer	998.52
Rd. at fences E.-W., 20 ft. S. and 30 ft. W. from, in root on E. side of 12-in. elm tree; crossed nails	1,038.92
T. 62 N., R. 34 W., cor. secs. 7, 8, 17, and 18, 45 ft. N. and 30 ft. W. from T-rd. W., in root on SE. side of 15-in. oak tree; copper nail and washer	1,018.78
Dwelling, 110 ft. N. and 35 ft. E. from NE. corner of, in root on E. side of 18-in. hackberry tree; crossed nails	1,008.10

	<u>Feet</u>
T. 62 N., R. 34 W., cor. secs. 17, 18, 19, and 20, 35 ft. N. and 25 ft. W. from county Route M at cross rd., in concrete post; standard tablet stamped "746 C.W.A.1934"	991.954
Reference mark, 70 ft. S. and 60 ft. E. from tablet, in root on SW. side of 24-in. elm tree; copper nail and washer	987.63
T-rd. S., 240 ft. S. of, on top of E. head wall of concrete culvert; chiseled square	949.04
Dwelling, 60 ft. S. and 15 ft. E. from SW. corner of, in root on SW. side of 12-in. elm tree; crossed nails	955.00
T. 62 N., R. 34 W., about 425 ft. S. of quarter cor. between secs. 20 and 29, at SW. corner of steel bridge over Long Creek, on top of rivet; chiseled cross	938.99
T-rd. E., about 400 ft. S. of, on top of W. head wall of concrete culvert; chiseled square	961.34
T. 62 N., R. 34 W.; N. sixteenth cor. sec. 32, 45 ft. S. and 25 ft. E. from T-rd. W., 100 ft. W. of farmhouse, in root on W. side of 28-in. maple tree; copper nail and washer	963.11
T. 62 N., R. 34 W., S. quarter cor. sec. 32, 27 ft. N. and 25 ft. W. from T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 23 Mac 1923 Mo"	961.760
T. 61 N., R. 34 W., about 0.2 mi. W. of N. cor. secs. 5 and 6, 425 ft. E. of T-rd. N. on Andrew-Nodaway county line, 20 ft. N. of rd., in root on W. side of 30-in. elm tree; copper nail and washer	1,021.49
Tps. 61 and 62 N., Rs. 34 and 35 W., cor. of, on Andrew-Nodaway county line, 250 ft. E. of crossroads, on top of S. head wall of concrete culvert; chiseled square	1,031.63
Bridge, 10 ft. S. of center of, outside of handrail, on top of concrete floor; chiseled square	965.44
T. 62 N., R. 35 W., about 0.3 mi. W. of S. cor. secs. 35 and 36, 12 ft. S. and 250 ft. W. from crossroads on Andrew-Nodaway county line, on top of concrete wall; chiseled square	1,014.83
T-rd. N., 110 ft. S. of, in root on NE. side of 11-in. elm tree; crossed nails	970.42

ST. JOSEPH QUADRANGLE*

(Latitude $39^{\circ}45'-40^{\circ}00'$; longitude $94^{\circ}45'-95^{\circ}00'$)

Andrew and Buchanan Counties



1. NORTH ALONG EAST BORDER OF QUADRANGLE (by M. J. Harden in 1923)
(Continued from Dearborn quadrangle; see line 3.)

T. 57 N., R. 35 W., E. quarter cor. sec. 13, NW. of T-rd. W. at crossroads, about 15 ft. W. of fence corner, in concrete post; standard tablet stamped "H 1923"	948.353
Reference mark, NW. of crossroads, in root of 10-in. elm tree; copper nail and washer	946.95
Chicago, Burlington & Quincy R.R. at rd. crossing; top of rail	970.7
T. 57 N., R. 35 W., E. quarter cor. sec. 12, near T-rd. W.; top of W. end of iron pipe culvert	898.88
T. 57 N., Rs. 34 and 35 W., on line between secs. 1 and 6, near State Highway 8. (now U.S. Highway 36) at rd. S.; top of W. end of tile culvert	872.73
Tps. 57 and 58 N., Rs. 34 and 35 W. cor. of, SW. of T-rd. W.; top of S. end of concrete tile culvert (destroyed)	851.00
T. 58 N., R. 35 W., E. cor. secs. 25 and 36, 32 ft. S. and 22 ft. W. from T-rd. W. at crossroads, inside of fence, in concrete post; standard tablet stamped "H 1923"	866.792
Reference mark, 10 ft. W. of T-rd. E.; W. end of iron pipe culvert	866.75

(For balance in Clarksdale quadrangle, see line 2.)

*Part of this quadrangle lies in Kansas.

	<u>Feet</u>
T. 59 N., R. 34 W., near quarter cor. between secs. 18 and 19, NW. of crossroads; top of N. end of iron pipe culvert	1,051.20
T. 59 N., R. 34 W., quarter cor. between secs. 7 and 18, NE. of T-rd. E., at N. end of small culvert; top of flat rock forming N. guard wall	1,011.92
T. 59 N., R. 34 W., near E. sixteenth cor. between secs. 6 and 7, NW. of T-rd. N., on top of embankment, in concrete post; standard tablet	995.899
Reference mark, NW. of T-rd. N., on top of flat rock; chiseled square	983.93

(Continued in Clarksdale quadrangle; see line 2.)

2. FROM AMAZONIA NORTH AND EAST BY WAY OF SAVANNAH, TO POINT NEAR EAST BORDER OF QUADRANGLE (by W. R. Broadus in 1924)

Amazonia, 0.2 mi. W. of Chicago, Burlington & Quincy R.R. sta., 46 ft. N. of track, 10 ft. W. of W. fence; iron post (U.S.C.E. B.M. designated "293")	826.176
Top of cap	830.195
Reference mark, 41 ft. S. 20° E. of post, on top of N. end of concrete tile under switch track; chiseled square	829.56
Amazonia, near N. limits of, 1 block W. of Main Street, in front of Methodist Church, at edge of rd., on SW. corner of concrete block; chiseled square	869.17
Amazonia, 1.3 mi. NW. of, in E 1/2 sec. 26, T. 59 N., R. 36 W., 500 ft. S. of dwelling of Joe Sayle, 25 ft. E. of rd., in root on W. side of 15-in. tree; copper nail and washer	1,065.96
T. 59 N., R. 36 W., on line between secs. 14 and 23, 140 ft. SE. of crossroads, 65 ft. SW. of Liggett School, in root on SW. side of 16-in. locust tree; copper nail and washer	1,103.84
T. 59 N., R. 36 W., near E. sixteenth cor. between secs. 11 and 14, 50 ft. S. and 18 ft. E. from T-rd. S., inside of fence, in concrete post; standard tablet stamped "B 1924 Mo"	1,125.415
Reference mark, 575 ft. N. 80° E. of tablet, in root on S. side of 30-in. white-oak tree; copper nail and washer	1,104.33
T. 59 N., R. 36 W., E. cor. secs. 12 and 13, 60 ft. NW. of T-rd. W., inside of Old Union Cemetery, in root on NE. side of 30-in. pine tree; copper nail and washer	1,031.20
Savannah, 1.8 mi. W. of, on line between secs. 17 and 18, T. 59 N., R. 35 W., 70 ft. E. of rd. forks, 10 ft. N. of rd., in root on S. side of 18-in. walnut tree; copper nail and washer	1,059.14
Savannah, at SW. limits of, 40 ft. S. and 20 ft. E. from T-rd. E. in root on W. side of 20-in. elm tree; copper nail and washer	1,123.70
Savannah, at W. side of S. entrance to courthouse, in first course of stone; standard tablet stamped "B 1924 Mo"	1,114.317
Reference mark, 10 ft. S. and 55 ft. E. from E. entrance to courthouse, in root on N. side of 30-in. elm tree; copper nail and washer	1,110.25
Savannah, 0.9 mi. E. of courthouse, in S 1/2 sec. 10, T. 59 N., R. 35 W., 25 ft. N. and 60 ft. W. from T-rd. N., in root on NW. side of 14-in. maple tree; copper nail and washer	1,067.26
T. 59 N., R. 35 W., quarter cor. between secs. 11 and 14, 30 ft. S. and 15 ft. E. from T-rd. W., in root on SW. side of 24-in. wild-cherry tree; copper nail and washer	1,026.73
T. 59 N., R. 35 W., in SE 1/4 NE 1/4 sec. 14, at bridge over One Hundred and Two River, on top of NW. pier; chiseled square	887.99
T. 59 N., R. 35 W., E. quarter cor. sec. 13, 50 ft. E. of rd. forks, in root on SW. side of 42-in. elm tree; copper nail and washer	925.53

3. FROM ST. JOSEPH WATERWORKS SOUTHEAST TO EAST BORDER OF QUADRANGLE

U.S.C.E. B.M. designated "289"	822.416
St. Joseph, 3.5 mi. N. of post office, 180 ft. S. of E. end of filtering room of city waterworks, 100 ft. W. of Chicago, Burlington & Quincy R.R. at rd. crossing, in root on W. side of 18-in. elm tree; copper nail and washer	822.37
St. Joseph, about 3.5 mi. N. of post office, in N 1/2 sec. 31, T. 58 N., R. 35 W., on Waterworks Hill, 60 ft. S. of water tank, in root on S. side of 36-in. tree; copper nail and washer	1,114.06
St. Joe triangulation sta., about 3.5 mi. N. of St. Joseph post office, in S 1/2 sec. 30, T. 58 N., R. 35 W., about 0.2 mi. N. of St. Joseph waterworks reservoir, on cultivated bluff; (mark not described)	1,140.573
St. Joseph, 0.2 mi. N. of N. limits of, on line between secs. 29 and 32, T. 58 N., R. 35 W., on Amazonia-St. Joseph rock rd. at cross rd., S. of rd., on first step in front of Maxwell School; chiseled square	1,054.51
St. Joseph, near N. limits of, at junction of Karnes Road and St. Joseph Avenue, on bottom step of front entrance to Baptist Church; chiseled square	909.16
St. Joseph, at N. limits of, 30 ft. N. and 25 ft. E. from crossroads, in root on NW. side of 24-in. cottonwood tree; copper nail and washer	1,029.99
St. Joseph, 33 ft. E. of intersection of Twenty-second Street and Lovers Lane SW., 5 ft. inside of walk, in concrete post; standard tablet stamped "B 1924 Mo"	1,034.771
Reference mark, 19 ft. N. 80° W. of tablet, on top of curbing; chiseled square	1,034.40
St. Joseph, NW. of intersection of Twenty-second and Jones Streets, on top of curb; chiseled square	944.34
St. Joseph, S. of intersection of Ashland and Frederick Avenues, in line with Ashland Avenue, on S. curb; chiseled square	1,003.66
St. Joseph, 25 ft. N. and 30 ft. W. from intersection of Thirty-sixth Street and Frederick Avenue, in root on S. side of 30-in. cottonwood tree; copper nail and washer	1,009.10

	<u>Feet</u>
St. Joseph, 30 ft. N. and 55 ft. E. from intersection of Fortieth Street and Frederick Avenue, on second concrete step in front of Woodbine Church; chiseled square	1,008.84
St. Joseph, 0.5 mi. N. of intersection of Fortieth Street and Frederick Avenue, on E. outskirts of town, in top of W. head wall of concrete culvert; standard tablet stamped "Prim Trav Sta No 1 Mac 1923"	975.195
T. 57 N., R. 34 W., in NW 1/4 SW 1/4 sec. 6, about 250 ft. W. of State Highway 8 (now U.S. Highway 36) bridge over One Hundred and Two River, 80 ft. N. of junction of rd. N., on S. edge of small concrete bridge; chiseled square	850.18

4. IN NORTHWEST PART OF QUADRANGLE

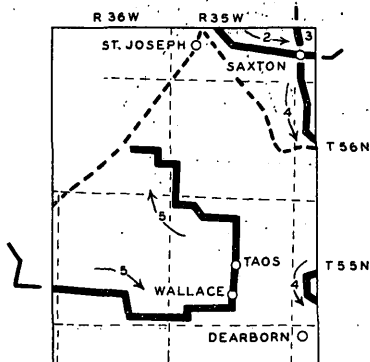
T. 59 N., R. 36 W., in NW 1/4 SE 1/4 sec. 11, 40 ft. N. and 90 ft. E. from rd. forks, in root on SE. side of 24-in. pin-oak tree; copper nail and washer	1,087.54
T. 59 N., R. 36 W., near quarter cor. between secs. 2 and 11, 30 ft. N. and 120 ft. W. from crossroads, on first concrete step in front of Brand School; chiseled square	1,126.77
T. 59 N., R. 36 W., center sec. 2, 35 ft. N. and 30 ft. W. from T-rd. W., in root on NE. side of 36-in. elm tree; copper nail and washer	1,157.97
Tps. 59 and 60 N., R. 36 W., quarter cor. between secs. 2 and 35, 22 ft. S. and 55 ft. E. from State Highway 1 at rd. S., in concrete post; standard tablet stamped "B 1924 Mo"	1,109.880
Reference mark, 107 ft. N. 60° W. of tablet, in root on E. side of 12-in. box-elder tree; copper nail and washer	1,116.77
T. 59 N., R. 36 W., N. cor. secs. 3 and 4, 70 ft. E. of State Highway 1 at rd. S., in root on N. side of 12-in. walnut tree; copper nail and washer	1,105.77
T. 59 N., R. 36 W., in NE. cor. sec. 5, about 240 ft. W. of State Highway 1 at drain, S. of highway, in root on E. side of 24-in. post-oak tree; copper nail and washer	958.37
T. 60 N., R. 36 W., near S. quarter cor. sec. 32, 25 ft. S. of State Highway 1 at rd. N., in concrete post; standard tablet stamped "B 1924 Mo"	895.996
Reference mark, 65 ft. N. 50° W. of tablet, on top of N. head wall of concrete culvert; chiseled square	893.95
T. 60 N., R. 36 W., quarter cor. between secs. 29 and 32, near cross-roads, on top of W. head wall of concrete culvert; chiseled square	921.32
T. 60 N., R. 36 W., center sec. 29, 20 ft. N. and 15 ft. E. from T-rd. S., in root on W. side of 16-in. hackberry tree; copper nail and washer	870.32
T. 60 N., R. 36 W., near N. sixteenth cor. between secs. 29 and 30, 30 ft. E. of rd. forks, in root on N. side of 24-in. hackberry tree; copper nail and washer	866.72

(Continued in Bolckow quadrangle; see line 3.)

For additional level lines along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Sioux City, Iowa to Kansas City, Mo.; and second-order line, Darlington to St. Joseph.

DEARBORN QUADRANGLE*
(Latitude 39°30'-39°45'; longitude 94°45'-95°00')

Buchanan and Platte Counties



1. ISOLATED BENCHMARK (not shown on diagram) (by S. K. Atkinson in 1906)

New Market, 75 ft. S. of Chicago Great Western R.R. sta., 30 ft. W. of track; iron post stamped "869"

Feet
869.476

2. FROM ST. JOSEPH SOUTH AND EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO EAST BORDER OF QUADRANGLE (by S. R. Archer in 1920)

St. Joseph, intersection of Eleventh and Atchison Streets, E. of Eleventh Street, in line with Atchison Street W., at NW. corner of property owned by Aunt Jemima Mills Company, inside of fence, on top of SE. corner of concrete foundation of electric-light pedestal; chiseled square

843.59

St. Joseph, intersection of Twenty-second Street and Garfield Avenue, (junction of U.S. Highways 71 and 169) about 1 ft. E. of E. side of storm-sewer opening, on top of concrete curbing; chiseled square

865.07

St. Joseph, 0.5 mi. E. of limits of, along Chicago, Burlington & Quincy R.R., in N 1/2 sec. 27, T. 57 N., R. 35 W., 110 ft. S. and 70 ft. E. from crossroads, 50 ft. S. and 70 ft. E. from rd. crossing, in fence line; iron post stamped "1920 Mo 907"

906.361

T. 57 N., R. 35 W., near center of sec. 27, 550 ft. S. of Chicago, Burlington & Quincy R.R., on top of wing wall of highway bridge; standard tablet stamped "Prim Trav Sta No 2 Mac 1923"

888.433

T. 57 N., R. 35 W., 0.3 mi. NW. of quarter cor. between secs. 25 and 26, 40 ft. E. of junction of private rd. S. across Chicago, Burlington & Quincy R.R., N. of rd.; 12 ft. E. of fence corner, in root on S. side of 24-in. cottonwood tree; copper nail and washer

960.37

T. 57 N., R. 35 W., in NW 1/4 SE 1/4 sec. 25, 0.2 mi. E. of T-rd. S., at concrete bridge over creek, S. of rd., on top of S. end of E. abutment; chiseled square

904.09

Saxton, near S. sixteenth cor. sec. 30, T. 57 N., R. 34 W., SE. of crossroads, 5 ft. E. of fence corner; iron post stamped "1920 Mo 890"

889.308

Saxton, 0.5 mi. NE. of, along Chicago, Burlington & Quincy R.R., near E. quarter cor. sec. 30, T. 57 N., R. 34 W., at concrete bridge 199.62 over creek, S. of track, on top of E. end of S. head wall; chiseled square

868.94

(Continued in Gower quadrangle; see line 1.)

3. IN NORTHEAST CORNER OF QUADRANGLE (by M. J. Harden in 1923)

T. 57 N., R. 34 W., near center sec. 19, about 30 ft. N. of T-rd. S., in root of 12-in. locust tree; copper nail and washer

921.49

T. 57 N., Rs. 34 and 35 W., approximate quarter cor. between secs. 19 and 24, 40 ft. SW. of T-rd. N.; top of S. end of tile culvert

917.68

(Continued in St. Joseph quadrangle; see line 1.)

4. FROM SAXTON SOUTH ALONG EAST BORDER OF QUADRANGLE

Saxton, near S. sixteenth cor. sec. 30, T. 57 N., R. 34 W., SE. of crossroads, 5 ft. E. of fence corner; iron post stamped "1920 Mo 890"

889.308

Reference mark, 135 ft. SW. of post, in root of forked white-oak tree; copper nail and washer

892.00

*A small part of this quadrangle lies in Kansas.

Saxton, 0.6 mi. S. of, in N 1/2 sec. 31, T. 57 N., R. 34 W., SE. of rd. forks, 20 ft. N. of NW. corner of church, in root of ash tree; copper nail and washer	<u>Feet</u> 970.06
Saxton, 1.3 mi. S. of, about 200 ft. S. of N. quarter cor. sec. 6, T. 56 N., R. 34 W., 60 ft. SW. of farmhouse, in root of 24-in. walnut tree; copper nail and washer	992.02
T. 56 N., R. 34 W., N. sixteenth cor. sec. 7, NE. of rd. forks, about 40 ft. E. of rd., on top of embankment, in concrete post; standard tablet stamped "H 1923"	1,045.976
Reference mark 1, 21 ft. SW. of tablet, on S. end of concrete culvert; chiseled square	1,034.98
Reference mark 2, about 80 ft. E. of rd. forks, in root of 18-in. elm tree; copper nail and washer	1,047.68
T. 56 N., R. 34 W., in E 1/2 sec. 7, NE. of St. Joseph highway at cross rd., on N. end of concrete culvert; chiseled square	1,030.64
T. 56 N., R. 34 W., in SE 1/4 sec. 18, on St. Joseph highway; top of E. guard wall of concrete culvert	919.17
(For balance in Gower quadrangle, see line 2.)	
T. 55 N., R. 34 W., near E. quarter cor. sec. 19, SE. of crossroads; top of E. end of 18-in. tile culvert	1,009.69

(Continued in Gower quadrangle; see line 2.)

5. FROM POINT NEAR MIDDLE OF SOUTH HALF OF WEST BORDER OF QUADRANGLE EAST TO WALLACE, THENCE NORTH AND NORTHWEST TO POINT NEAR CENTER OF NORTHWEST QUARTER (by W. R. Broadus in 1924)
(Continued from Sugar Lake quadrangle; see line 1.)

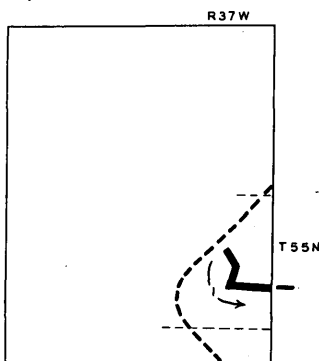
T. 55 N., R. 36 W., cor. secs. 19, 20, 29, and 30, NW. of T-rd. N., on top of N. head wall of concrete culvert; chiseled square	866.17
T. 55 N., R. 36 W., approximate cor. secs. 20, 21, 28, and 29, NE. of T-rd. N.; top of E. end of iron pipe culvert	1,006.20
T. 55 N., R. 36 W., cor. secs. 21, 22, 27, and 28, 19 ft. E. of T-rd. W., 4 ft. inside of fence corner, in concrete post; standard tablet stamped "B 1924 Mo"	929.553
Reference mark, 114 ft. S. of tablet, in root on SW. side of 16-in. cottonwood tree; copper nail and washer	928.08
T. 55 N., R. 36 W., about 0.1 mi. W. of quarter cor. between secs. 33 and 34, 20 ft. N. and 10 ft. E. from rd. forks, in root on W. side of 6-in. elm tree; copper nail and washer	964.20
T. 55 N., R. 36 W., E. sixteenth cor. sec. 34, 155 ft. N. of junction of private rd. S., in root on S. side of 24-in. hickory tree; copper nail and washer	1,076.80
T. 55 N., R. 36 W., center sec. 35, 21 ft. N. and 21 ft. E. from T-rd. N., in concrete post; standard tablet stamped "B 1924 Mo"	1,118.609
Reference mark, 82 ft. S. 60° E. of tablet, on top of S. end of concrete tile culvert; chiseled square	1,115.03
T. 55 N., R. 36 W., center sec. 36, SW. of T-rd. W., in root on N. side of 42-in. elm tree; copper nail and washer	1,136.73
T. 55 N., R. 36 W., about 0.1 mi. N. of quarter cor. between secs. 25 and 36, 10 ft. N. and 160 ft. E. from T-rd. E., on top of bank, in root on S. side of 12-in. walnut tree; copper nail and washer	1,104.85
T. 55 N., R. 36 W., in SE 1/4 SE 1/4 sec. 25, 20 ft. N. and 180 ft. W. from T-rd. W., in root on E. side of 30-in. walnut tree; copper nail and washer	1,103.11
T. 55 N., R. 35 W., W. quarter cor. sec. 30, 12 ft. N. and 100 ft. E. from T-rd. E., 19 ft. S. of 30-in. hackberry tree, 1 ft. inside of fence, in concrete post; standard tablet stamped "B 1924 Mo"	1,109.404
Reference mark, 19 ft. N. of tablet, in root on S. side of 30-in. hackberry tree; copper nail and washer	1,105.58
T. 55 N., R. 35 W., quarter cor. between secs. 29 and 30, NW. of crossroads, on top of W. end of concrete tile culvert; chiseled square	1,040.19
T. 55 N., R. 35 W., E. sixteenth cor. sec. 29, 55 ft. N. and 150 ft. W. from T-rd. N., in root on SE. side of 36-in. elm tree; copper nail and washer	1,043.74
Wallace, 80 ft. S. of Chicago, Rock Island & Pacific Ry. sta., at rd. crossing; top of E. rail	1,091.9
Wallace, 0.8 mi. E. of, quarter cor. between secs. 21 and 28, T. 55 N., R. 35 W., 20 ft. S. and 20 ft. W. from crossroads, 5 ft. SW. of fence corner, in concrete post; standard tablet stamped "B 1924 Mo"	1,049.760
Reference mark, 520 ft. N. 88° W. of tablet, on top of E. end of N. head wall of concrete culvert; chiseled square	1,017.62
T. 55 N., R. 35 W., center sec. 21, 65 ft. N. and 15 ft. W. from T-rd. W., on top of W. end of concrete tile culvert; chiseled square	1,055.79
T. 55 N., R. 35 W., center sec. 16, at Taos, 15 ft. S. and 15 ft. W. from crossroads, in root on N. side of 14-in. locust tree; copper nail and washer	1,072.63
T. 55 N., R. 35 W., center sec. 9, 150 ft. N. and 20 ft. E. from T-rd. E., in front of old Hallow School, at edge of rd., on first concrete step; chiseled square	1,106.18
T. 55 N., R. 35 W., near center sec. 4, 35 ft. N. and 23 ft. W. from T-rd. E., 4 ft. E. of fence; in concrete post; standard tablet stamped "B 1924 Mo"	983.596
Reference mark, 240 ft. N. of tablet, on top of S. end of W. guardrail of concrete bridge; chiseled square	984.05

T. 55 N., R. 35 W., near quarter cor. between secs. 5 and 6, 120 ft. N. and 75 ft. E. from T-rd. E., in root on S. side of 30-in. hackberry tree; copper nail and washer	Feet 1,094.83
T. 55 N., R. 35 W., about 0.3 mi. S. of N. cor. secs. 5 and 6, 40 ft. S. and 25 ft. W. from T-rd. W., in root of 12-in. elm tree (E. one of group of 5 trees); copper nail and washer	1,093.69
T. 55 N., R. 36 W., about 0.3 mi. S. of NE. cor. sec. 1, 25 ft. S. and 8 ft. W. from rd. corner N.-W. at dim rd. S. 4 ft. SW. of corner fence, in concrete post; standard tablet stamped "B 1924 Mo"	1,044.373
Reference mark, 18 ft. S. 55° W. of tablet, in root on E. side of 36-in. pin-oak tree; copper nail and washer	1,043.59
Tps. 55 and 56 N., R. 36 W., on line between secs. 1 and 36, 140 ft. N. and 25 ft. W. from T-rd. W., in root on SW. side of 4-in. sycamore tree; copper nail and washer	960.72
Contrary Creek, under bridge; surface of water at 9 a. m. July 15, 1924	915.0
T. 56 N., R. 35 W., about 0.1 mi. W. of E. cor. secs. 25 and 36, 25 ft. E. of rd. forks, in root on NW. side of 5-in. black-oak tree; copper nail and washer	947.19
T. 56 N., Rs. 35 and 36 W., quarter cor. between secs. 25 and 30, 100 ft. S. and 12 ft. E. from T-rd. W., in concrete post; standard tablet stamped "B 1924 Mo"	963.738
Reference mark, 136 ft. N. 15° W. of tablet, on top of N. end of concrete tile culvert; chiseled square	968.29
T. 56 N., R. 36 W., in E 1/2 sec. 25, 15 ft. N. and 170 ft. E. from rd. forks, in root on S. side of large forked wild-cherry tree; copper nail and washer	1,050.40
T. 56 N., R. 36 W., about 0.1 mi. E. of center sec. 26, 25 ft. W. of Dekalb-St. Joseph rd. at junction of rd. E., on top of W. end of concrete tile culvert; chiseled square	1,066.81
T. 56 N., R. 36 W., in SE 1/4 sec. 22, 25 ft. N. of rd. forks in hollow, in root on W. side of 60-in. elm tree; copper nail and washer	877.81
T. 56 N., R. 36 W., near N. sixteenth cor. sec. 22, 20 ft. S. of Chicago, Rock Island & Pacific Ry. at crossing of Memorial Highway (now U.S. Highway 59), on top of W. end of concrete tile culvert; chiseled square	810.54

For additional level lines along Chicago, Burlington & Quincy R.R. and Atchison, Topeka & Santa Fe Ry., refer to United States Coast and Geodetic Survey first-order line, Sioux City, Iowa to Kansas City, Mo.; and second-order line, St. Joseph to Lexington.

SUGAR LAKE QUADRANGLE*
(Latitude 39°30'-39°45'; longitude 95°00'-95°15')

Buchanan and Platte Counties



1. FROM POINT 1 MILE SOUTH OF RUSHVILLE SOUTH AND EAST ALONG HIGHWAY AND ROADS INTO DEARBORN QUADRANGLE (by W. R. Broadus in 1924)

Rushville, 1 mi. SW. of, along Chicago, Rock Island & Pacific Ry., on line between secs. 15 and 16, T. 55 N., R. 37 W., 250 ft. E. of rd. crossing, in front of dwelling of Harry McQueen, S. of track, on SW. corner of concrete base of semaphore; chiseled square	793.67
Rushville, 1.3 mi. SW. of, along Memorial Highway (now U.S. Highway 59), quarter cor. between secs. 15 and 22, T. 55 N., R. 37 W., 50 ft. S. and 50 ft. W. from rd. junction, in root on S. side of 48-in. bur-oak tree; copper nail and washer	794.07
Armour, 0.5 mi. N. of, near W. sixteenth cor. between secs. 22 and 27, T. 55 N., R. 37 W., 25 ft. N. and 13 ft. E. from junction of Memorial Highway (now U.S. Highway 59) and paved rd. S., in top of E. head wall of concrete culvert; standard tablet stamped "B 1924 Mo"	797.952

*The greater part of this quadrangle lies in Kansas.

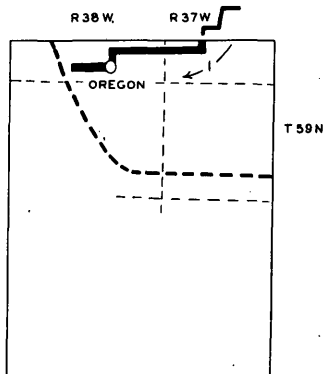
	Feet
Reference mark, 41 ft. S. of tablet, on top of E. head wall of concrete culvert; chiseled square	797.96
T. 55 N., R. 37 W., quarter cor. between secs. 23 and 26, 30 ft. N. and 160 ft. W. from T-rd. N., in root on S. side of 30-in. elm tree; copper nail and washer	983.62
T. 55 N., R. 37 W., quarter cor. between secs. 24 and 25, 27 ft. N. and 57 ft. E. from crossroads, at SW. corner of cemetery, 3 ft. N. of line of catalpa trees, between second and third trees, in concrete post; standard tablet stamped "B 1924 Mo"	881.227
Reference mark, 8 ft. S. 80° W. of tablet, in root on W. side of 12-in. catalpa tree; copper nail and washer	881.50

(Continued in Dearborn quadrangle; see line 5.)

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Sioux City, Iowa to Kansas City, Mo.

OREGON QUADRANGLE*
(Latitude 39°45'-40°00'; longitude 95°00'-95°15')

Andrew and Holt Counties



1. WEST ALONG NORTH BORDER OF QUADRANGLE (by W. R. Broadbuss in 1924)

(Continued from Maitland quadrangle; see line 3.)

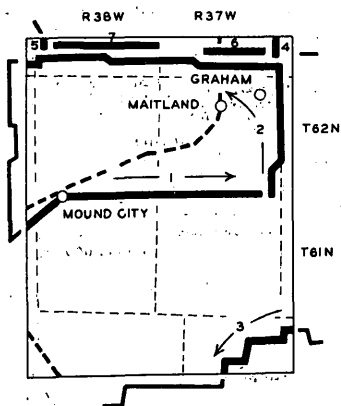
T. 60 N., R. 37 W., quarter cor. between secs. 28 and 29, 60 ft. N. and 20 ft. E. from crossroads, in root on S. side of 12-in. elm tree; copper nail and washer	1,107.64
T. 60 N., R. 37 W., quarter cor. between secs. 29 and 30, 40 ft. N. and 55 ft. W. from crossroads, 90 ft. S. of Wood School, in root on E. side of 14-in. maple tree; copper nail and washer	1,114.02
Oregon, 2 mi. E. of, 0.2 mi. E. of W. quarter cor. sec. 30, T. 60 N., R. 37 W., 20 ft. N. of rd. at top of hill, in concrete post; standard tablet stamped "Prim Trav Sta No 13 Mac 1923"	1,113.273
Reference mark, 673 ft. E. of tablet, 30 ft. N. of rd., in root on SE. side of 20-in. maple tree; copper nail and washer	1,104.75
Oregon, about 0.6 mi. E. of, near E. sixteenth cor. sec. 26, T. 60 N., R. 38 W., 40 ft. N. and 20 ft. E. from T-rd. N., in root on E. side of 20-in. black-oak tree; copper nail and washer	999.55
Oregon, at Zook and Roecker Bank, 3 ft. N. of entrance, 8 in. above walk; standard tablet	1,093.200
Reference mark, S. 30° E. of tablet, in root on N. side of 36-in. locust tree; copper nail and washer	1,093.97
Oregon, at SW. limits of, 90 ft. S. and 10 ft. W. from rd. corner N.-W., in root on N. side of 42-in. maple tree; copper nail and washer	1,077.37
Oregon, about 0.5 mi. W. of, near cor. secs. 27, 28, 33, and 34, T. 60 N., R. 38 W., 25 ft. N. and 70 ft. W. from T-rd. S., in root on S. side of 12-in. hickory tree; copper nail and washer	965.41
Oregon, 1.5 mi. W. of, on line between secs. 28 and 33, T. 60 N., R. 38 W., 25 ft. E. of entrance to Hinatt dwelling, 40 ft. N. of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 14 Mac 1923"	1,050.066
Reference mark, 149 ft. S. 30° W. of tablet, in root on N. side of 6-in. walnut tree; copper nail and washer	1,048.33
U.S.C.E. B.M. designated "302"	857.675

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Sioux City, Iowa to Kansas City, Mo.

* The greater part of this quadrangle lies in Kansas.

MAITLAND QUADRANGLE
(Latitude 40°00'-40°15'; longitude 95°00'-95°15')

Andrew, Holt, and Nodaway Counties



1. EAST THROUGH MIDDLE OF QUADRANGLE (by W. R. Broadus in 1924)
(Continued from Craig quadrangle; see line 4.)

	Feet
Mound City, 1 mi. W. of, along Bigelow-Mound City rd. (? State Highway 1 C), in N 1/2 sec. 1, T. 61 N., R. 37 W., 40 ft. N. of junction of rd. S.; iron post stamped "Prim Trav Sta No 3 1916"	865.787
Reference mark, 397 ft. N. 55° E. of post, in root on N. side of 16-in. elm tree; copper nail and washer	863.33
Mound City, at intersection of Fifth and State Streets, on top of concrete base of flower urn; chiseled square	884.16
Mound City, about 0.2 mi. E. of E. limits of, along State Highway 1 D (now U.S. Highway 275), 4 ft. S. and 120 ft. W. from highway at top of hill, in root on N. side of 24-in. elm tree; copper nail and washer	975.30
Mound City, about 0.8 mi. E. of, along State Highway 1 D (now U.S. Highway 275), 40 ft. S. and 130 ft. W. from crossing of small creek, in root on N. side of 18-in. oak tree; copper nail and washer	920.66
Mound City, 1.9 mi. E. of, along State Highway 1 D (now U.S. Highway 275) 15 ft. N. and 18 ft. W. from junction of rd. N., in N. wing wall of concrete culvert; standard tablet stamped "Prim Trav Sta No 30 Mac 1923 Mo"	947.211
Reference mark, 120 ft. S. 60° W. of tablet, in root on N. side of 24-in. locust tree; copper nail and washer	945.18
Mound City, about 3.2 mi. E. of, along State Highway 1 D (now U.S. Highway 275), SE. of cross rd., on top of E. head wall of concrete culvert; chiseled square	986.27
Mound City, about 4.2 mi. E. of, along State Highway 1 D (now U.S. Highway 275), 20 ft. S. and 480 ft. W. from cross rd., in root on N. side of 24-in. cottonwood tree; copper nail and washer	1,049.91
Mound City, 4.8 mi. E. of, along State Highway 1 D (now State Highway 113), near dwelling at top of hill, 20 ft. N. of highway, in concrete post; standard tablet stamped "Prim Trav Sta No 29 Mac 1923 Mo"	1,086.311
Reference mark, 28 ft. W. of tablet, in root on S. side of 14-in. maple tree; copper nail and washer	1,086.06
Tps. 61 and 62 N., R. 37 W., 870 ft. W. of approximate cor. secs. 5, 6, 31, and 32, 50 ft. N. of State Highway 1 D (now State Highway 113), 90 ft. S. and 60 ft. E. from dwelling, in root on S. side of 18-in. maple tree; copper nail and washer	990.85
T. 61 N., R. 37 W., N. cor. secs. 4 and 5, 25 ft. S. of State Highway 1 D (now State Highway 113), 58 ft. E. of rd. S., in root on N. side of 16-in. maple tree; copper nail and washer	977.56
T. 61 N., R. 37 W., N. quarter cor. sec. 4, 20 ft. S. and 90 ft. E. from T-rd. S., in root of 30-in. cottonwood tree; copper nail and washer	917.58
T. 62 N., R. 37 W., S. cor. secs. 33 and 34, 15 ft. S. and 90 ft. W. from T-rd. N., 115 ft. N. of dwelling of R. G. Cowan, in concrete post; standard tablet stamped "Prim Trav Sta No 28 Mac 1923 Mo"	968.399
Reference mark, 10 ft. S. 5° E. of tablet, in root on N. side of 16-in. maple tree; copper nail and washer	968.48
T. 61 N., R. 37 W., approximate N. cor. secs. 2 and 3, at bridge over Nodaway River ditch, in top of SE. pier; top of bolt	861.87
Tps. 61 and 62 N., R. 37 W., quarter cor. between secs. 1 and 36, 150 ft. S. and 20 ft. E. from T-rd. W., in root on N. side of 14-in. elm tree; copper nail and washer	873.14
T. 61 N., R. 37 W., quarter cor. between secs. 1 and 12, 120 ft. N. and 20 ft. E. from T-rd. E., in root on NW. side of 12-in. locust tree; copper nail and washer	880.00
T. 61 N., R. 36 W., approximate quarter cor. between secs. 6 and 7, 20 ft. N. and 180 ft. W. from crossroads, 200 ft. W. of Parkes Store, 2 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 27 Mac 1923 Mo"	924.905
Reference mark, 10 ft. E. of tablet, in root on S. side of 24-in. maple tree; copper nail and washer	924.43

2. FROM MIDDLE OF EAST BORDER OF QUADRANGLE NORTH TO NORTHEAST CORNER, THENCE WEST ALONG NORTH BORDER

	Feet
T. 62 N., R. 37 W., N. sixteenth cor. sec. 36, 180 ft. S. of T-rd. E., at bridge over small stream, on top of NW. concrete wing wall; chiseled square	886.14
Graham, 2.8 mi. S., thence 0.5 mi. E. from, quarter cor. between secs. 24 and 25, T. 62 N., R. 37 W., 56 ft. SW. of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 31 Mac 1923 Mo"	981.505
Reference mark, 550 ft. E. of tablet, on top of S. head wall of concrete culvert; chiseled square	962.03
Graham, 2.8 mi. S., thence 1 mi. E. from, cor. secs. 19, 24, 25, and 30, T. 62 N., Rs. 36 and 37 W., SW. of T-rd. S., on top of W. end of concrete culvert; chiseled square	990.48
Graham, 2.1 mi. S., thence 1 mi. E. from, N. sixteenth cor. between secs. 19 and 24, T. 62 N., Rs. 36 and 37 W., 10 ft. S. and 20 ft. E. from T-rd. W., in root on N. side of 24-in. elm tree; copper nail and washer	917.34
Graham, 1.5 mi. S., thence 1 mi. E. from, near approximate quarter cor. between secs. 13 and 18, T. 62 N., Rs. 36 and 37 W., 15 ft. N. and 25 ft. W. from T-rd. W., in root of small locust tree; copper nail and washer	940.77
Graham, 0.3 mi. S., thence 1.2 mi. E. from, near E. quarter cor. sec. 12, T. 62 N., R. 37 W., 15 ft. S. and 20 ft. E. from T-rd. W. at crossroads, in root on N. side of 6-in. catalpa tree; copper nail and washer	981.20
Graham, 1.2 mi. E. of E. cor. secs. 1 and 12, T. 62 N., R. 37 W., 30 ft. E. of T-rd. W., 40 ft. SE. of T-rd. E. at W. cor. secs. 6 and 7, T. 62 N., R. 36 W., in concrete post; standard tablet stamped "Prim Trav Sta 32 Mac 1923 Mo"	956.672
Reference mark, 760 ft. N. of tablet, on top of E. head wall of concrete culvert; chiseled square	955.41
Graham, 1.2 mi. E., thence 1 mi. N. from, cor. Tps. 62 and 63 N., Rs. 36 and 37 W., 115 ft. N. of crossroads, on top of E. head wall of concrete culvert; chiseled square	989.02
Graham, 1.2 mi. E., thence 2.3 mi. N. from, S. sixteenth cor. between secs. 25 and 30, T. 63 N., Rs. 36 and 37 W., 150 ft. N. of crossroads, on top of W. head wall of concrete culvert; chiseled square	952.71
Graham, 1.2 mi. E., thence 2.8 mi. N. from, 170 ft. W. of N. sixteenth cor. between secs. 25 and 30, T. 63 N., Rs. 36 and 37 W., 24 ft. N. of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 33 Mac 1923 Mo"	1,026.950
Reference mark, 350 ft. S. 5° E. of tablet, in root on W. side of 36-in. elm tree; nail and washer	1,026.40
Graham, 2.8 mi. N., thence 0.5 mi. E. from, N. sixteenth cor. between secs. 25 and 26, T. 63 N., R. 37 W., 25 ft. S. and 70 ft. E. from crossroads, 18 ft. N. of NW. corner of church, in root on N. side of 16-in. maple tree; nail	991.84
Graham, 2.8 mi. N. of, N. sixteenth cor. sec. 26, T. 63 N., R. 37 W., 13 ft. N. and 85 ft. E. from T-rd. E., in root on S. side of 24-in. bur-oak tree; nail	1,019.40
Graham, 2.4 mi. N., thence 1 mi. NW. from, about 600 ft. S. of cor. secs. 22, 23, 26, and 27, T. 63 N., R. 37 W., 300 ft. S. of old dwelling W. of rd., on top of NE. concrete wing wall of small bridge; chiseled square	897.83
Maitland, 2.5 mi. N. of, near E. sixteenth cor. sec. 22, T. 63 N., R. 37 W., 780 ft. SE. of Chicago, Burlington & Quincy R.R. at private rd. crossing, 43 ft. W. of dwelling of E. S. Hester, 20 ft. N. of private lane, in root on SW. side of 14-in. maple tree; nail	943.84
Maitland, 0.5 mi. W., thence 3 mi. N. from, along State Highway 1 D (now State Highway 113), cor. secs. 20, 21, 28, and 29, T. 63 N., R. 37 W., 48 ft. N. and 18 ft. E. from junction of rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 34 Mac 1923 Mo"	928.754
Reference mark, 163 ft. S. 70° W. of tablet, in root on NE. side of 36-in. cottonwood tree; nail and washer	929.80
Maitland, 3 mi. N., thence 1 mi. W. from, cor. secs. 19, 20, 29, and 30, T. 63 N., R. 37 W., 15 ft. N. and 65 ft. W. from crossroads, in root on E. side of 8-in. walnut tree; nail and washer	1,007.50
Maitland, 3 mi. N., thence 2 mi. W. from, W. cor. secs. 19 and 30, T. 63 N., R. 37 W., 30 ft. N. of T-rd. E., 20 ft. S. of T-rd. W. at E. cor. secs. 24 and 25, T. 63 N., R. 38 W., E. of N.-S. rd., in concrete post; standard tablet stamped "Prim Trav Sta 35 Mac 1923 Mo"	992.552
Reference mark, 99 ft. W. of tablet, in root on E. side of 15-in. walnut tree; copper nail and washer	1,000.20
T. 63 N., R. 38 W., cor. secs. 19, 20, 29, and 30, 20 ft. N. and 35 ft. E. from crossroads, in root on W. side of 15-in. maple tree; copper nail and washer	1,015.36
T. 63 N., Rs. 38 and 39 W., approximate cor. secs. 19, 24, 25, and 30, at crossroads, 175 ft. W. of rd. N., 20 ft. S. of rd. W., in root on E. side of 24-in. maple tree; copper nail and washer	935.56
T. 63 N., Rs. 38 and 39 W., approximate cor. secs. 19, 24, 25, and 30, at crossroads, 125 ft. W. of rd. N., 20 ft. S. of rd. W., in root on E. side of 24-in. maple tree; copper nail and washer	933.93
T. 63 N., Rs. 38 and 39 W., cor. secs. 25, 30, 31, and 36, SE. of crossroads, in root on N. side of 24-in. box-elder tree; copper nail and washer	929.32

(Continued in Craig quadrangle; see line 3.)

3. IN SOUTHEAST CORNER OF QUADRANGLE

(Continued from Bolckow quadrangle; see line 5.)

	<u>Feet</u>
T. 60 N., R. 37 W., near line between secs. 11 and 12, at bridge over Nodaway River, on top of SW. concrete pier; chiseled square	843.56
Fillmore, 2.5 mi. W. of, on line between secs. 11 and 14, T. 60 N., R. 37 W., at rd. corner from N.-W., 3 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 11 Mac 1923 Mo"	853.968
Reference mark, 146 ft. N. 40° E. of tablet, in root on W. side of 36-in. black-oak tree; copper nail and washer	850.23
T. 60 N., R. 37 W., E. sixteenth cor. between secs. 10 and 15; SW. of T-rd. S., in root on NE. side of 20-in. black-oak tree; copper nail and washer	1,006.11
T. 60 N., R. 37 W., E. sixteenth cor. between secs. 9 and 16, 25 ft. N. and 360 ft. E. from T-rd. S., in front of German Methodist Church, on S. end of concrete walk; chiseled square	1,067.63
T. 60 N., R. 37 W., E. sixteenth cor. between secs. 16 and 21, 20 ft. S. and 40 ft. W. from T-rd. N., in root on E. side of 20-in. walnut tree; copper nail and washer	1,064.78
T. 60 N., R. 37 W., cor. secs. 16, 17, 20, and 21, 35 ft. NW. of crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 12 Mac 1923 Mo"	1,049.064
Reference mark, 500 ft. E. of tablet, in W. side of leaning 14-in. ash tree; copper nail and washer	1,034.58

(Continued in Oregon quadrangle; see line 1.)

4. IN NORTHEAST CORNER OF QUADRANGLE (by E. J. Noonan in 1935)

(Continued from Skidmore quadrangle; see line 2.)

Concrete culvert, about 0.5 mi. N. of T-rd. N., on top of S. end of E. head wall; chiseled square	986.78
T-rd. N., about 180 ft. N. of, on top of W. head wall of concrete culvert; chiseled square	1,013.96

5. IN NORTHWEST CORNER OF QUADRANGLE (by S. T. Tudor and T. G. Drummond in 1935-36)

(Continued from Skidmore quadrangle; see line 4.)

T. 63 N., Rs. 38 and 39 W., approximate cor. secs. 19, 24, 25, and 30, near crossroads, at NW. corner of steel bridge over Minnesota Valley Creek, on top of N. end of W. cap; painted square	937.72
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6. EAST ALONG EAST PART OF NORTH BORDER OF QUADRANGLE (by E. J. Noonan and H. W. Gross in 1935-36)

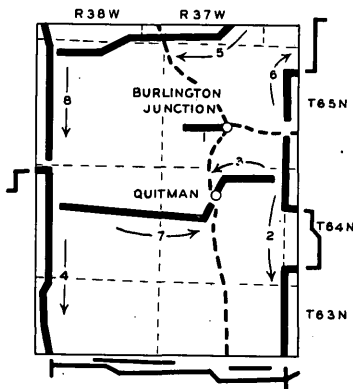
U.S.C. & G.S. standard disk stamped "M 80 1935"	886.035
T. 63 N., R. 37 W., near line between secs. 21 and 28, 175 ft. E. of E. bank of Nodaway River, 360 ft. N. of fence line, at NW. corner of field, in root on SE. side of 28-in. sycamore tree; copper nail and washer	879.27
Bridge, at NE. corner of, in top of cap; crossed nails	980.29
T. 63 N., R. 37 W., N. sixteenth cor. between secs. 25 and 26, 85 ft. S. and 75 ft. E. from crossroads, in root on W. side of 16-in. maple tree; copper nail and washer	990.89
T. 63 N., R. 37 W., in NW 1/4 sec. 25, at NW. corner of steel bridge, on top of inside anchor lug; chiseled cross	921.86
T-rd. S., 12 ft. N. and about 650 ft. W. from, on top of head wall of culvert; chiseled square	954.96

7. EAST ALONG WEST PART OF NORTH BORDER OF QUADRANGLE (by T. G. Drummond in 1936)

T-rd. S., 8 ft. S. and 14 ft. E. from, in E. corner of small wooden bridge; crossed nails	974.05
T. 63 N., R. 38 W., cor. secs. 21, 22, 27, and 28, 45 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 36 Mac 1923 Mo"	1,091.585
Reference mark, 45 ft. S. and 22 ft. W. from crossroads, in root on W. side of 24-in. catalpa tree; copper nail and washer	1,094.20
T. 63 N., R. 38 W., cor. secs. 22, 23, 26, and 27, 10 ft. N. and 560 ft. E. from crossroads, at W. end of bridge, on granite boulder; chiseled square	1,027.13
T. 63 N., R. 38 W., cor. secs. 23, 24, 25, and 26, 16 ft. S. and 18 ft. E. from crossroads, on iron pipe culvert; chiseled square	1,095.69

For additional level lines along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Sioux City, Iowa to Kansas City, Mo.; and second-order line, Bigelow to Burlington, Jct.

SKIDMORE QUADRANGLE
(Latitude 40°15'-40°30'; longitude 95°00'-95°15')
Atchison, Holt, and Nodaway Counties



1. LINE TO DETERMINE ELEVATION OF WATER-RESOURCES GAGE ABOUT 1.6 MILES WEST OF BURLINGTON JUNCTION (by E. J. Noonan in 1935)

U.S.C. & G.S. standard disk stamped "J 20 1933"

Feet
919.109

Burlington Junction, about 1.5 mi. W. of, along State Highway 4, at bridge over Nodaway River, in N. end of W. concrete abutment; standard tablet (set by water-resources branch of U.S. Geol. Survey)

916.757

2. FROM WABASH RAILWAY SOUTH ALONG EAST BORDER OF QUADRANGLE

U.S.C. & G.S. standard disk stamped "F 20 1933"

1,048.574

Concrete culvert, on S. end of W. head wall; chiseled square

1,045.65

T. 65 N., R. 37 W., E. cor. secs. 25 and 36, about 650 ft. N. of T-rd.

W., 110 ft. S. of T-rd. E., on top of E. head wall of concrete culvert; chiseled square

1,063.22

Dwelling of W. F. Meyer, about 225 ft. S. of, on top of W. concrete culvert; chiseled square

1,119.01

T. 64 N., R. 37 W., in NE 1/4 sec. 1, about 0.2 mi. S. of T-rd. S., about 75 ft. S. and 50 ft. E. from SE. corner of dwelling of George W. Meyer, about 20 ft. W. of rd., in root on S. side of 12-in. elm tree; copper nail and washer

1,128.65

Entrance to Winglow farm, about 300 ft. S. of, on top of W. concrete head wall of iron pipe culvert; chiseled square

1,071.96

T. 64 N., Rs. 36 and 37 W., cor. secs. 1, 6, 7, and 12, 50 ft. S. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "704 C W A 1934"

1,084.592

Reference mark, 150 ft. S. of tablet, in root on E. side of 30-in. maple tree; crossed nails

1,081.94

Dwelling of Irwin Haines, about 60 ft. S. and 35 ft. E. from SE. corner of, in root on W. side of 30-in. maple tree; crossed nails

1,026.81

T-rd. N., about 0.4 mi. N. of, 30 ft. E. of rd., in N.-S. fence line, in root on N. side of 12-in. cherry tree; crossed nails

1,022.28

T. 64 N., Rs. 36 and 37 W., cor. secs. 7, 12, 13, and 18, 120 ft. S. and 60 ft. W. from T-rd. N., in root on W. side of 30-in. maple tree; copper nail and washer

1,033.67

(For balance in Pickering quadrangle, see line 1.)

T. 64 N., Rs. 36 and 37 W., cor. secs. 25, 30, 31, and 36, 235 ft. E. of crossroads, at steel bridge, on top of S. wing wall of E. abutment; chiseled square

1,014.30

Crossroads, about 0.5 mi. S. of, 20 ft. E. of rd., in N.-S. fence line, in root on E. side of 30-in. elm tree; crossed nails

1,062.06

Tps. 63 and 64 N., Rs. 36 and 37 W., cor. of, about 150 ft. N. of crossroads, 30 ft. W. of rd., in fence line, in root on E. side of 30-in. box-elder tree; copper nail and washer

1,031.82

Crossroads, 0.5 mi. N. of, 50 ft. from rd., in E.-W. fence line, in root on N. side of 20-in. maple tree; crossed nails

1,050.50

T. 63 N., Rs. 36 and 37 W., cor. secs. 1, 6, 7, and 12, 36 ft. S. and 36 ft. E. from crossroads, in concrete post; standard tablet stamped "701 C W A 1934"

1,026.360

Reference mark, 95 ft. S. of tablet, in N.-S. fence line, in root on E. side of 30-in. maple tree; copper nail and washer

1,022.70

Steel bridge, about 0.3 mi. S. of crossroads, in top of 6-in. wooden piling brace at E. end of N. abutment; crossed nails

1,000.87

Crossroads, about 0.5 mi. S. of, about 40 ft. E. of rd., in root on W. side of 12-in. locust tree; crossed nails

1,019.51

T. 63 N., Rs. 36 and 37 W., about 50 ft. S. of cor. secs. 7, 12, 13, and 18, about 20 ft. E. of rd., in fence line, in root on N. side of 18-in. elm tree; copper nail and washer	Feet
Steel bridge, about 50 ft. S. of S. end of, in root on S. side of 15-in. oak tree; crossed nails	988.51
T. 63 N., Rs. 36 and 37 W., about 10 ft. S. and 130 ft. W. from cor. secs. 13, 18, 19, and 24, in root on N. side of twin 30-in. elm tree; copper nail and washer	952.96
Concrete culvert, about 0.5 mi. S. of cor. secs. 13, 18, 19, and 24, on top of W. head wall; chiseled square	938.62
	967.95

(Continued in Maitland quadrangle; see line 4.)

3. FROM POINT NEAR MIDDLE OF EAST BORDER OF QUADRANGLE WEST TO QUITMAN (by E. J. Noonan and H. W. Gross in 1935-36)

Dwelling, 80 ft. S. and 10 ft. W. from, 70 ft. N. of rd., in root on SW. side of 28-in. maple tree; crossed nails	1,109.33
T. 64 N., R. 37 W., cor. secs. 1, 2, 11, and 12, 20 ft. N. and 90 ft. E. from T-rd. S., in root on N. side of 8-in. walnut tree; copper nail and washer	1,026.84
Sand Creek, at W. end of steel bridge over, in S. side of bridge seat on S. pier; top of rivet	958.28
T. 64 N., R. 37 W., cor. secs. 2, 3, 10, and 11, 20 ft. N. and 340 ft. E. from T-rd. N., in root on W. side of 48-in. cottonwood tree; copper nail and washer	1,028.23
Dwelling, 130 ft. S. and 95 ft. E. from, 20 ft. S. of rd., in root on W. side of 18-in. hackberry tree; crossed nails	1,052.02
T. 64 N., R. 37 W., cor. secs. 3, 4, 9, and 10, 50 ft. N. and 25 ft. W. from T-rd. N., 21 ft. N. and 6 ft. W. from W. head wall of concrete culvert, in concrete post; standard tablet stamped "826 C W A 1934"	969.024
Reference mark, 20 ft. N. and 20 ft. E. from T-rd. N., on top of E. head wall of culvert; chiseled square	968.99
Quitman, 45 ft. S. and 18 ft. E. from SE. corner of Methodist Church, in root on E. side of 24-in. maple tree; crossed nails	1,001.13
U.S.C. & G.S. standard disk stamped "§ 80 1935"	913.062

4. SOUTH ALONG SOUTH HALF OF WEST BORDER OF QUADRANGLE (by S. T. Tudor and T. G. Drummond in 1935-36)
(Continued from Tarkio quadrangle; see line 1.)

Tps. 64 and 65 N., Rs. 38 and 39 W., 20 ft. S. and 20 ft. W. from cor. of, at NE. corner of yard of J. W. Hannon, in concrete post; standard tablet stamped "Prim Trav Sta No 39 J S 1923"	1,117.945
Reference mark, 70 ft. S. and 70 ft. W. from tablet, on top of SE. corner of bottom concrete step; (mark not described)	1,116.32
Top of hill, 20 ft. W. of rd., in W. side of 15-in. elm tree; crossed nails	1,084.32
T. 64 N., Rs. 38 and 39 W., quarter cor. between secs. 1 and 6, about 70 ft. S. and 10 ft. E. from T-rd. E., at steel bridge, on top of S. end of E. handrail; painted square	995.01
Bridge, in NE. corner of floor; copper nail and washer	968.24
T. 64 N., Rs. 38 and 39 W., near cor. secs. 1, 6, 7, and 12, about 260 ft. S. and 25 ft. W. from crossroads, in root on E. side of 15-in. box-elder tree; copper nail and washer	991.11
Top of hill, 25 ft. E. of rd., at entrance to farm, in W. side of N. gatepost; crossed nails	1,067.17
T. 64 N., Rs. 38 and 39 W., cor. secs. 13, 18, 19, and 24, 40 ft. N. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 38 J L 1923"	1,035.389
Rd. at E.-W. fence, 15 ft. S. and 25 ft. W. from, in E. side of gatepost; nail	1,016.89
T. 64 N., Rs. 38 and 39 W., near cor. secs. 19, 24, 25, and 30, 110 ft. S. and 30 ft. W. from crossroads, in root on E. side of 36-in. maple tree; copper nail and washer	958.78
Top of hill, 22 ft. W. of rd., in root on E. side of 12-in. hedge tree; crossed nails	1,040.84
T. 64 N., Rs. 38 and 39 W., near cor. secs. 25, 30, 31, and 36, 300 ft. N. and 25 ft. W. from crossroads, in root on E. side of twin 12-in. hedge tree; copper nail and washer	996.86
Rd. at fence W., 20 ft. W. of, in root on W. side of 12-in. walnut tree; crossed nails	1,057.01
Tps. 63 and 64 N., Rs. 38 and 39 W., cor. of, 20 ft. S. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 37 L S 1923"	1,017.775
Dwelling, 30 ft. N. and 60 ft. W. from, 20 ft. W. of rd., in E. side of telephone pole; crossed nails	1,010.49
T. 63 N., Rs. 38 and 39 W., cor. secs. 1, 6, 7, and 12, 130 ft. S. and 25 ft. E. from crossroads, in root on W. side of 12-in. elm tree; copper nail and washer	1,013.28
Top of hill, 20 ft. W. of rd., in W. side of telephone pole; crossed nails	1,053.86
T. 63 N., Rs. 38 and 39 W., cor. secs. 7, 12, 13, and 18, 75 ft. N. and 60 ft. E. from T-rd. W., in root on N. side of 15-in. box-elder tree; copper nail and washer	1,068.13
Rd. at fence E., 4 ft. N. and 30 ft. E. from, in root on N. side of 12-in. wild-cherry tree; crossed nails	1,033.98

	<u>Feet</u>
T. 63 N., R. 39 W., 45 ft. N. and 18 ft. E. from E. cor. secs. 13 and 24, 15 ft. N. and 18 ft. E. from W. cor. secs. 18 and 19, T. 63 N., R. 38 W., NE. of crossroads on Atchison-Holt county line; iron post stamped "Prim Trav Sta No 4 1916"	1,016.089
Top of hill, 40 ft. W. of rd., in fence line W., in root on N. side of 12-in. hedge tree; crossed nails	1,023.95

(Continued in Maitland quadrangle; see line 5.)

5. FROM POINT EAST OF CENTER OF NORTH BORDER OF QUADRANGLE WEST TO WEST BORDER (by H. W. Gross in 1936)
(Continued from Coin quadrangle; see line 3.)

T. 66 N., R. 37 W., in SW 1/4 sec. 27, 45 ft. S. and 30 ft. E. from rd. fork W., in root on N. side of 18-in. elm tree; copper nail and washer	1,103.30
Possum Walk School, at E. side of, on S. end of top step; chiseled square	1,035.07
T. 66 N., R. 37 W., near quarter cor. between secs. 28 and 33, 30 ft. N. and 130 ft. W. from T-rd. S., in root on S. side of 14-in. mulberry tree; copper nail and washer	1,089.48
T. 66 N., R. 37 W., near S. sixteenth cor. sec. 33, 300 ft. W. of rd. corner from N.-W., 50 ft. S. and 20 ft. E. from T-rd. S., in root on N. side of 16-in. walnut tree; copper nail and washer	1,055.84
U.S.C. & G.S. standard disk stamped "K 20 1933"	943.233
Wabash Ry. at rd. crossing, 40 ft. S. and 25 ft. W. from, in N. side of telegraph pole; spike	949.38
T. 66 N., R. 37 W., 0.2 mi. E. of cor. secs. 29, 30, 31, and 32, 50 (? 30) ft. E. of T-rd. S., 20 ft. N. of E.-W. rd., about 235 ft. W. of iron bridge, 1 ft. S. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 48 L S 1923 Mo"	943.534
Reference mark, 51 ft. S. and 40 ft. W. from tablet, on top of W. head wall of culvert; chiseled square	946.444
T-rd. N., NW. of, on top of wing wall of culvert; chiseled square	974.53
T. 66 N., Rs. 37 and 38 W., 0.2 mi. S. of cor. secs. 25, 30, 31, and 36, 8 ft. N. and 115 ft. E. from T-rd. E., at NW. corner of bridge; in top of cap; copper nail and washer	1,036.18
T-rd. W., 10 ft. N. and 20 ft. E. from, in root on SE. side of 5-in. cherry tree; spike	1,081.96
T. 66 N., R. 38 W., near N. sixteenth cor. sec. 36, 290 ft. N. and 10 ft. E. from T-rd. E., on top of E. head wall of culvert; chiseled square	1,032.88
Rd. corner from S.-W., 20 ft. N. and 30 ft. E. from, in top of 16-in. stump; spike	1,004.80
T. 66 N., R. 38 W., near quarter cor. between secs. 26 and 35, 15 ft. S. and 18 ft. E. from crossroads, 3 ft. N. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 47 L S 1923"	1,116.353
Reference mark, 30 ft. N. and 37 ft. W. from tablet, on N. head wall of culvert; chiseled square	1,120.00
T. 66 N., R. 38 W., S. quarter cor. sec. 35, 55 ft. N. and 160 ft. E. from T-rd. N., in root on W. side of 15-in. mulberry tree; copper nail and washer	1,151.56
Bridge, at SW. corner of, in top of cap; crossed nails	1,076.52
T. 65 N., R. 38 W., N. cor. secs. 4 and 5, 20 ft. N. and 500 ft. W. from T-rd. S., 20 ft. N. and 130 ft. W. from rd. at drain, in root on E. side of twin 10-in. box-elder tree; copper nail and washer	1,090.77
T-rd. N., 65 ft. N. and 18 ft. E. from, on W. side of 10-in. walnut tree; spike	1,097.40
T. 65 N., R. 38 W., N. cor. secs. 5 and 6, 20 ft. N. and 45 ft. E. from T-rd. S., in root on SW. side of 12-in. hedge tree; copper nail and washer	1,138.07
T-rd. N., 20 ft. S. and 10 ft. E. from, in root on N. side of 18-in. mulberry tree; crossed nails	1,118.98
T-rd. S., 20 ft. S. and 35 ft. E. from, in N. side of hedge fence post; spike	1,073.11
T. 65 N., Rs. 38 and 39 W., 615 ft. W. of N. cor. secs. 1 and 6, 100 ft. SE. of SE. corner of farmhouse, 25 ft. N. of E.-W. rd., in concrete post; standard tablet stamped "Prim Trav Sta No 46 L S 1923"	1,102.786
Reference mark, 37 ft. S. and 4 ft. E. from tablet, in root on SE. side of 10-in. walnut tree; spike	1,100.01

6. FROM WABASH RAILWAY NORTH ALONG EAST BORDER OF QUADRANGLE

T. 65 N., Rs. 36 and 37 W., cor. secs. 19, 24, 25, and 30, 55 ft. S. and 35 ft. W. from U.S. Highway 71 at cross rd., in concrete post; standard tablet stamped "707 C W A 1934"	1,075.669
Farmhouse, 30 ft. E. of rd., in root on W. side of 14-in. maple tree; crossed nails	1,085.05
T. 65 N., R. 36 W., W. cor. secs. 18 and 19, 72 ft. N. and 20 ft. W. from T-rd. E., 85 ft. S. and 20 ft. W. from T-rd. W., in root on E. side of 18-in. walnut tree; copper nail and washer	1,127.21
T. 65 N., R. 37 W., E. cor. secs. 12 and 13, 20 ft. S. and 110 ft. W. from T-rd. W. produced, on top of concrete head wall of culvert; chiseled square	1,009.02
Top of hill, at farmhouse, 33 ft. E. of rd., in root on W. side of 14-in. maple tree; crossed nails	1,113.95
T. 65 N., R. 36 W., W. cor. secs. 6 and 7, 30 ft. S. and 27 ft. E. from T-rd. E., 220 ft. S. of T-rd. W., 6 ft. S. and 4 ft. E. from fence corner, in concrete post; standard tablet stamped "708 C W A 1934"	1,059.282

Top of hill, S. of rd., in root on N. side of 14-in. wild-cherry tree; crossed nails Feet
1,118.96

(Continued in Pickering quadrangle; see line 4.)

7. FROM POINT NEAR MIDDLE OF WEST BORDER OF QUADRANGLE EAST TO QUITMAN

Rd. at N.-S. fence, 15 ft. N. and 15 ft. W. from; top of boulder	1,028.31
T. 64 N., R. 38 W., cor. secs. 7, 8, 17, and 18, 30 ft. N. and 360 ft. W. from T-rd. S., 75 ft. SE. of corner of dwelling of Orel Raines, in concrete post; standard tablet stamped "823 C W A 1934"	1,050.355
Wooden bridge, at SE. corner of, in top of piling; crossed nails	1,035.20
T. 64 N., R. 38 W., cor. secs. 8, 9, 16, and 17, 40 ft. N. and 50 ft. E. from crossroads, in root on S. side of 8-in. elm tree; copper nail and washer	1,068.72
T. 64 N., R. 38 W., cor. secs. 9, 10, 15, and 16, 70 ft. N. and 500 ft. E. from crossroads on Atchison-Nodaway county line, 50 ft. SW. of SW. corner of dwelling, in root on S. side of 15-in. hackberry tree; copper nail and washer	1,091.22
T. 64 N., R. 38 W., about 650 ft. W. of cor. secs. 10, 11, 14, and 15, about 60 ft. S. of dwelling of D. C. Lundeen, 30 ft. (? 22 ft.) N. of rd., in yard, in concrete post; standard tablet stamped "824 C W A 1934"	1,065.841
Reference mark, 43 ft. W. of tablet, in root on S. side of 24-in. elm tree; copper nail and washer	1,064.37
Huff Creek, at SE. corner of bridge over, on top of bolt; chiseled cross	1,009.94
T. 64 N., R. 38 W., 0.2 mi. E. of quarter cor. between secs. 11 and 14, on S. head wall of concrete culvert; chiseled square	995.72
T-rd. S., SE. of, in corner fence post; crossed nails	1,045.61
T. 64 N., R. 38 W., about 0.1 mi. E. of quarter cor. between secs. 12 and 13, 10 ft. S. of rd., on top of concrete head wall of culvert; chiseled square	1,040.71
T. 64 N., R. 37 W., about 0.1 mi. W. of quarter cor. between secs. 7 and 18, 72 ft. S. and 20 ft. E. from junction of private rd. S., in root on N. side of 30-in. catalpa tree; copper nail and washer	999.12
T. 64 N., R. 37 W., cor. secs. 7, 8, 17, and 18, 3 ft. N. and 24 ft. E. from N.-S. rd. at rd. W., 21 ft. N. of rd. E., in concrete post; standard tablet stamped "825 C W A 1934"	973.127
T. 64 N., R. 37 W., quarter cor. between secs. 7 and 8, 105 ft. N. and 40 ft. W. from T-rd. E., in yard of Dale Ashford, in root on E. side of 30-in. maple tree; copper nail and washer	929.19
T-rd. S., SE. of, in N. side of corner post; crossed nails	898.74
T. 64 N., R. 37 W., near quarter cor. between secs. 8 and 9, at SW. corner of bridge over Nodaway River, on top of rivet at end of truss; chiseled cross	913.06

8. SOUTH ALONG NORTH HALF OF WEST BORDER OF QUADRANGLE (by T. G. Drummond in 1936)

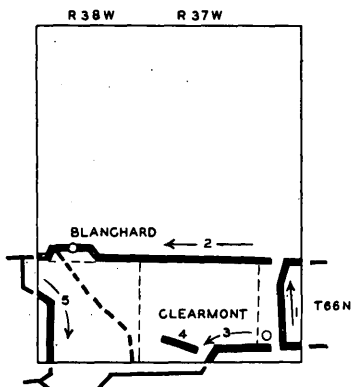
(Continued from Coin quadrangle; see line 5.)

T. 66 N., R. 38 W., cor. secs. 29, 30, 31, and 32, 145 ft. S. and 90 ft. E. from crossroads, at North Star School, on NW. corner of bottom concrete step; chiseled square	1,103.80
T-rd. N., 14 ft. N. and 24 ft. E. from, in wooden box culvert; crossed nails	1,069.54
T. 65 N., Rs. 38 and 39 W., 615 ft. W. of N. cor. secs. 1 and 6, 100 ft. SE. of SE. corner of farmhouse, 25 ft. N. of E.-W. rd., in concrete post; standard tablet stamped "Prim Trav Sta No 46 L S 1923"	1,102.786
Reference mark, 36 ft. S. of tablet, in SE. side of 6-in. walnut tree; spike	1,100.02
T. 65 N., R. 39 W., near E. cor. secs. 1 and 12, 24 ft. N. and 100 ft. W. from rd. fork NW., 27 ft. S. of rd., in SE. corner of wooden bridge; copper nail and washer	1,033.12
Steel bridge, at SW. corner of, on rivet head; chiseled cross	1,023.59
T. 65 N., R. 38 W., W. cor. secs. 7 and 18, 8 ft. N. and 24 ft. E. from T-rd. E., 210 ft. S. of T-rd. W., on top of concrete pipe culvert; chiseled square	1,044.88
T. 65 N., R. 39 W., near E. cor. secs. 13 and 24, 45 ft. N. and 29 ft. E. from State Highway 4 at cross rd., in fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 40 L S 1923"	1,106.973
Wooden bridge, in SW. corner of; crossed nails	1,016.73
T. 65 N., R. 38 W., W. cor. secs. 19 and 30, 24 ft. S. and 12 ft. E. from T-rd. E., on iron pipe culvert; chiseled square	1,055.29
T. 65 N., R. 38 W., cor. secs. 30 and 31, 60 ft. S. and 20 ft. W. from T-rd. E., in root on E. side of 12-in. box-elder tree; copper nail and washer	1,096.28

For additional level lines along Wabash Ry. and Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Milan, Mo. to Hamburg, Iowa; and second-order line, Bigelow to Burlington Jet.

COIN QUADRANGLE*
(Latitude 40°30'-40°45'; longitude 95°00'-95°15')

Atchison and Nodaway Counties



1. FROM SOUTHEAST CORNER OF QUADRANGLE NORTH ALONG EAST BORDER TO IOWA-MISSOURI STATE LINE (by H. W. Gross in 1936)
(Continued from New Market quadrangle; see line 1.)

	Feet
T-rd. E., 20 ft. W. of, in top of 8-in. brace post; crossed nails	1,038.92
T. 66 N., R. 36 W., near S. sixteenth cor. between secs. 19 and 20, 12 ft. E. of rd., on top of concrete head wall; chiseled square	994.32
T-rd. W., 50 ft. N. and 12 ft. E. from, on top of concrete head wall; chiseled square	1,041.61
Clearmont, 0.7 mi. N. and 1 mi. E. from, cor. secs. 17, 18, 19, and 20, T. 66 N., R. 36 W., 60 (? 65) ft. N. and 25 ft. E. from T-rd. E., in concrete post; standard tablet stamped "709 C W A 1934"	1,071.356
Small bridge, 40 ft. S. and 18 ft. E. from, in root on W. side of triple 10-in. cherry tree; crossed nails	991.16
T. 66 N., R. 36 W., cor. secs. 7, 8, 17, and 18, 200 ft. S. and 20 ft. E. from crossroads, in root on N. side of 10-in. box-elder tree; copper nail and washer	985.26
Steel bridge, at NE. corner of, on top of wing wall; chiseled square	975.06
T. 66 N., R. 36 W., near S. sixteenth cor. between secs. 5 and 6, 135 ft. S. and 20 ft. E. from T-rd. W., in root on W. side of 30-in. elm tree; copper nail and washer	976.74
T. 66 N., R. 36 W., near N. sixteenth cor. between secs. 5 and 6, at center of E. side of White Lily School, on step; chiseled cross	957.92
Farmhouse, 35 ft. W. of rd., in root on SE. side of 30-in. elm tree; crossed nails	962.41
T. 67 N., R. 36 W., near quarter cor. between secs. 31 and 32, 15 ft. S. and 33 ft. W. from T-rd. E., 3 ft. S. and 6 ft. W. from corner fence post, in concrete post; standard tablet stamped "710 C W A 1934"	957.240
Crossroads, 33 ft. N. and 25 ft. W. from, on top of 4-in. iron pipe set in concrete; chiseled cross	1,039.62

(Continued in New Market quadrangle; see line 2.)

2. FROM EAST BORDER OF QUADRANGLE WEST ALONG IOWA-MISSOURI STATE LINE TO WEST BORDER

Chicago, Burlington & Quincy R.R. at rd. crossing, 20 ft. S. and 75 ft. E. from, in root on S. side of 24-in. maple tree; crossed nails	948.66
T. 66 N., Rs. 36 and 37 W., about 0.2 mi. S. of quarter cor. between secs. 1 and 6, 500 ft. N. of U.S. Highway 71 at rd. E., at SE. corner of main span of bridge over Nodaway River, on top of anchorbolt; chiseled cross	941.78
Clearmont, 3.8 mi. N. of, along U.S. Highway 71, cor. Tps. 66 and 67 N., Rs. 36 and 37 W., 33 ft. E. of junction of rd. W., in concrete post; standard tablet stamped "831 1934"	941.061
T-rd. S., SW. of, in N. side of telegraph pole; spike	954.31
Tps. 66 and 67 N., R. 37 W., about 0.1 mi. W. of cor. secs. 1, 2, 35, and 36, at SW. corner of bridge, on top of wing wall; chiseled square	972.81
Tps. 66 and 67 N., R. 37 W., cor. secs. 2, 3, 34, and 35, 30 ft. S. and 33 (? 30) ft. W. from crossroads, 85 ft. N. and 60 ft. E. from NE. corner of farmhouse, in concrete post; standard tablet stamped "850 1934"	1,117.807
T-rd. S., SE. of, in SW. side of telephone pole; spike	1,071.15
Bridge, at NW. corner of, on top of wing wall; chiseled square	1,033.21

* The greater part of this quadrangle lies in Iowa.

Tps. 66 and 67 N., R. 37 W., cor. secs. 3, 4, 33, and 34, 12 ft. N. and 40 ft. E. from crossroads, on top of concrete head wall; chiseled square	Feet 1,055.54
Crossroads, NW. of, in root on S. side of 24-in. box-elder tree; crossed nails	1,138.04
Bridge, at SW. corner of, in top of cap; crossed nails	1,079.34
Tps. 66 and 67 N., R. 37 W., about 0.2 mi. W. of cor. secs. 4, 5, 32, and 33, 60 ft. S. and 60 ft. W. from SW. corner of farmhouse, 35 ft. N. of rd., in root on S. side of 26-in. maple tree; copper nail and washer	1,143.00
Tps. 66 and 67 N., R. 37 W., near W. sixteenth cor. between secs. 5 and 32, 35 ft. N. and 36 ft. E. from crossroads, in yard of Mount Tabor School, in concrete post; standard tablet stamped "829 1934"	1,107.024
Tps. 66 and 67 N., R. 37 W., quarter cor. between secs. 6 and 31, 20 ft. N. and 140 ft. W. from crossroads, in root on NE. side of 16-in. box-elder tree; copper nail and washer	1,035.62 988.53
Bridge over Mill Creek, at SW. corner of, in top of cap; crossed nails	
Tps. 66 and 67 N., R. 38 W., quarter cor. between secs. 1 and 36, 25 ft. S. and 100 ft. E. from junction of abandoned rd. N., in root on NW. side of 24-in. maple tree; copper nail and washer	1,042.72
Tps. 66 and 67 N., R. 38 W., cor. secs. 1, 2, 35, and 36, 45 ft. S. and 105 ft. E. from crossroads, in root on NW. side of 12-in. maple tree; crossed nails	1,120.98
Drain, 20 ft. S. and 70 ft. E. from, in N. side of 24-in. willow tree; spike	1,056.89
Tps. 66 and 67 N., R. 38 W., cor. secs. 2, 3, 34, and 35, 25 ft. N. of T-rd. S., on property of Chester Honan, in concrete post; standard tablet stamped "828 1934"	1,132.851
Reference mark, 110 ft. W. of tablet, in root on SW. side of 28-in. maple tree; copper nail and washer	1,138.82
Wabash Ry. at rd. crossing, 30 ft. S. and 55 ft. E. from, in root on E. side of 10-in. mulberry tree; crossed nails	1,042.602
T. 67 N., R. 38 W., in SW 1/4 sec. 34, 12 ft. E. of rd., on top of concrete head wall; chiseled square	1,029.15
T. 67 N., R. 38 W., N. cor. secs. 33 and 34, 42 ft. N. and 35 ft. W. from crossroads on Iowa-Mo. State line, in SE. corner of Blanchard Cemetery, in root on S. side of 14-in. box-elder tree; copper nail and washer	1,078.02
Blanchard, Iowa, in SE. part of, 40 ft. S. and 30 ft. W. from rd. corner N.-E. and alley W. on Iowa-Mo. State line, in root on N. side of 10-in. walnut tree; copper nail and washer	1,064.26
Water tower at Blanchard, Iowa, in SE. foundation block, on top of SW. anchorbolt; chiseled cross	1,067.09
T. 67 N., R. 38 W., on line between secs. 32 and 33, 0.2 mi. S. of Iowa-Mo. State line, 7 ft. N. and 20 ft. E. from Wabash Ry. at rd. crossing, 14 ft. N. of track, in concrete post; standard tablet stamped "827 1934"	982.339 984.375 979.6
U.S.C. & G.S. standard disk stamped "R 8 1933"	
Wabash Ry. at rd. crossing, 0.2 mi. N. of sta.; top of rail	
Blanchard, Iowa, 0.5 mi. W. of Wabash Ry. sta., 12 ft. S. and 70 ft. W. from T-rd. SW., at S. end of E. pier of steel bridge over East Tarkio Creek, on top of concrete; chiseled square	963.72
Tps. 66 and 67 N., R. 38 W., near W. sixteenth cor. between secs. 5 and 32, 30 ft. S. and 75 ft. W. from T-rd. W., 30 ft. W. of bridge, in root on NW. side of 30-in. maple tree; copper nail and washer	957.14
Steel bridge over East Tarkio Creek, at SE. corner of, on top of rivet in bearing plate; chiseled cross	958.44

(Continued in Farragut quadrangle; see line 2.)

3. WEST ALONG EAST PART OF SOUTH BORDER OF QUADRANGLE

T. 66 N., R. 36 W., 0.1 mi. S. of T-rd. E. at cor. secs. 19, 20, 29, and 30, 25 ft. S. and 25 ft. E. from crossroads, in root on W. side of 12-in. box-elder tree; copper nail and washer	1,046.01
Bridge, at SE. corner of, on top of wing wall; chiseled square	958.05
Clearmont, at S. limits of, N. sixteenth cor. between secs. 25 and 30, T. 66 N., Rs. 36 and 37 W., 18 ft. N. and 25 ft. E. from U.S. Highway 71 at rd. E., on top of N. head wall of concrete culvert; chiseled mark	962.97
Clearmont, S. sixteenth cor. between secs. 19 and 24, T. 66 N., Rs. 36 and 37 W., 18 ft. S. and 25 ft. W. from junction of U.S. Highway 71 and County Route C, on top of S. head wall; chiseled square	970.68
Chicago, Burlington & Quincy R.R. at crossing of County Route C, 25 ft. N. and 80 ft. E. from, in N. side of 26-in. box-elder tree; spike	956.27
T. 66 N., R. 37 W., center of SE 1/4 sec. 23, 42 ft. N. and 48 ft. E. from County Route C at rd. S. and lane N., 5 ft. N. and 3 ft. E. from corner fence post, in concrete post; standard tablet stamped "Prim Trav Sta No 49 L S 1923 Mo"	930.248
Reference mark, 35 ft. N. and 3 ft. W. from tablet, in root on SE. side of 18-in. black-locust tree; copper nail and washer	929.64
T. 66 N., R. 37 W., in SW 1/4 sec. 23, at NE. corner of County Route C bridge over Nodaway River, on top of rivet in bearing plate; chiseled cross	932.52
T. 66 N., R. 37 W., about 0.3 mi. S. of center sec. 22, 180 ft. S. and 15 ft. W. from County Route C at rd. S., 10 ft. N. and 40 ft. E. from farmhouse, in root on E. side of 28-in. tree; copper nail and washer	944.11
T. 66 N., R. 37 W., cor. secs. 21, 22, 27, and 28, 12 ft. S. and 150 ft. W. from T-rd. S., on top of S. concrete head wall; chiseled square	1,105.54

(Continued in Skidmore quadrangle; see line 5.)

4. NEAR MIDDLE OF SOUTH BORDER OF QUADRANGLE

T. 66 N., R. 37 W., about 0.2 mi. W. of quarter cor. between secs. 21 and 28, at SE. corner of bridge over drain, on top of concrete wing wall; chiseled square	<u>Feet</u> 987.16
T-rd. S., 12 ft. N. and 300 ft. E. from, on top of concrete head wall; chiseled square	1,018.06
U.S.C. & G.S. standard disk stamped "L 20 1933"	949.752

5. NEAR SOUTHWEST CORNER OF QUADRANGLE (by T. G. Drummond in 1936)
(Continued from Farragut quadrangle; see line 1.)

T. 66 N., R. 38 W., cor. secs. 7, 8, 17, and 18, 21 ft. S. and 40 ft. W. from crossroads, in root on E. side of 6-in. ash tree; copper nail and washer	1,026.00
T. 66 N., R. 38 W., cor. secs. 17, 18, 19, and 20, 180 ft. S. and 30 (? 27) ft. W. from T-rd. E., 9 ft. S. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "811 C W A 1934"	1,080.116
T. 66 N., R. 38 W., cor. secs. 19, 20, 29, and 30, 110 ft. S. and 6 ft. W. from T-rd. W., at NW. corner of steel bridge, on rivet head; chiseled cross	971.05

(Continued in Skidmore quadrangle; see line 8.)

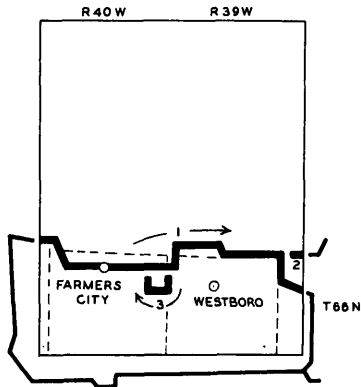
TIE NEAR IOWA-MISSOURI STATE LINE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY FIRST-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE

Wabash Ry. at rd. crossing, 30 ft. S. and 55 ft. E. from, in root on E. side of 10-in. mulberry tree; crossed nails	1,042.60
U.S.C. & G.S. standard disk stamped "B 19 1933"	1,092.616

For an additional level line along Wabash Ry., refer to United States Coast and Geodetic Survey first-order line, Milan, Mo. to Hamburg, Iowa.

FARRAGUT QUADRANGLE*
(Latitude 40°30'-40°45'; longitude 95°15'-95°30')

Atchison County

1. FROM WEST BORDER OF QUADRANGLE EAST ALONG IOWA-MISSOURI STATE LINE (by T. G. Drummond in 1936)
(Continued from Hamburg quadrangle; see line 2.)

T. 67 N., Rs. 40 and 41 W., N. cor. secs. 31 and 36, on Iowa-Mo. State line, 20 ft. N. of T-rd. W., 6 ft. W. of T-rd. E., on head wall of concrete culvert; chiseled square	1,033.87
T. 67 N., R. 40 W., N. cor. secs. 31 and 32, 5 ft. S. and 30 ft. W. from rd. at fences E. and W. on Iowa-Mo. State line, 25 ft. S. and 30 ft. W. from T-rd. W., in concrete post; standard tablet stamped "804 C W A 1934"	1,123.230
Tps. 66 and 67 N., R. 40 W., approximate cor. secs. 5, 6, 31, and 32, 18 ft. N. and 12 ft. W. from crossroads, on concrete head wall of iron pipe culvert; chiseled square	1,056.35
Steel bridge, at SE. corner of, on rivet head; chiseled cross	1,028.82

*The greater part of this quadrangle lies in Iowa.

	Feet
T. 66 N., R. 40 W., cor. secs. 5, 6, 7, and 8, 18 ft. S. and 18 ft. W. from crossroads, on iron pipe culvert; painted square	1,073.25
Concrete culvert, on S. head wall; chiseled square	1,081.53
Farmers City, cor. secs. 4, 5, 8, and 9, T. 66 N., R. 40 W., 27 ft. N. and 27 ft. E. from crossroads, 117 ft. N. and 39 ft. W. from NW. corner of store, in concrete post; standard tablet stamped "805 C W A 1934"	1,118.801
T. 66 N., R. 40 W., cor. secs. 3, 4, 9, and 10, 30 ft. N. and 90 ft. E. from crossroads, in yard of South Dale School, at well, on SW. corner of concrete foundation; chiseled square	1,065.23
T. 66 N., R. 40 W., cor. secs. 2, 3, 10, and 11, 66 ft. N. and 24 1/2 ft. E. from crossroads, in root on E. side of 24-in. box-elder tree; copper nail and washer	1,105.58
T. 66 N., R. 40 W., cor. secs. 1, 2, 11, and 12, 30 ft. N. and 21 ft. W. from U.S. Highway 59 at E.-W. cross rd., 10 ft. N. and 6 ft. E. from N. end of pipe culvert, in concrete post; standard tablet stamped "806 C W A 1934"	996.673
Steel bridge over West Tarkio Creek, at SW. corner of, on rivet head; chiseled cross	957.06
T. 66 N., Rs. 39 and 40 W., cor. secs. 1, 6, 7, and 12, 33 ft. S. and 55 ft. E. from T-rd. S., in root on E. side of twin maple tree; copper nail and washer	997.70
T-rd. N., 18 ft. N. end 18 ft. W. from, on top of iron pipe culvert; painted square	1,030.28
T. 66 N., R. 39 W., cor. secs. 5, 6, 7, and 8, 5 ft. S. and 27 ft. E. from T-rd. W., in root on S. side of twin maple tree; copper nail and washer	1,052.39
T-rd. E., 15 ft. N. and 16 ft. W. from, at group of mail boxes, in top of 10-in. stump; crossed nails	1,096.54
Tps. 66 and 67 N., R. 39 W., cor. secs. 5, 6, 31, and 32, 27 ft. E. of T-rd. W., 7 ft. S. and 13 ft. W. from 16-in. pine tree, in concrete post; standard tablet stamped "807 C W A 1934"	1,046.528
T. 67 N., R. 39 W., N. cor. secs. 31 and 32, 18 ft. S. and 30 ft. E. from crossroads on Iowa-Mo. State line, in root on N. side of 14-in. oak tree; copper nail and washer	1,025.20
T. 67 N., R. 39 W., N. cor. secs. 32 and 33, 56 ft. S. and 18 ft. W. from T-rd. W. and hedge row E. on Iowa-Mo. State line, 17 ft. S. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "808 C W A 1934"	1,093.819
T. 67 N., R. 39 W., cor. secs. 27, 28, 33, and 34, about 880 ft. N. of Iowa-Mo. State line, 27 ft. S. and 21 ft. E. from crossroads, on top of iron pipe culvert; painted square	1,080.56
Tps. 66 and 67 N., R. 39 W., cor. secs. 3, 4, 33, and 34, 27 ft. S. and 24 ft. E. from crossroads, on top of iron pipe culvert; painted square	1,026.56
Steel bridge, at SW. corner of, 300 ft. W. of Chicago, Burlington & Quincy R.R., on bolt head; chiseled cross	1,007.10
Tps. 66 and 67 N., R. 39 W., cor. secs. 2, 3, 34, and 35, 21 ft. S. and 298 ft. E. from crossroads, 2 ft. S. of fence, in concrete post; standard tablet stamped "809 C W A 1934"	1,121.503
Wooden bridge, in NW. corner of; crossed nails	1,037.68
Tps. 66 and 67 N., R. 39 W., cor. secs. 1, 2, 35, and 36, 16 ft. S. and 18 ft. E. from crossroads, on iron pipe culvert; painted square	1,093.05
Tps. 66 and 67 N., Rs. 38 and 39 W., cor. of, 37 ft. S. and 37 ft. E. from, 10 ft. S. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "810 C W A 1934"	1,021.177
T. 66 N., R. 39 W., E. cor. secs. 1 and 12, 150 ft. N. and 21 ft. W. from T-rd. W., 80 ft. N. of T-rd. E., opposite farmhouse, in root on E. side of 18-in. walnut tree; copper nail and washer	1,041.74
T-rd., 24 ft. N. and 30 ft. W. from, surface of ground	948.5
T. 66 N., R. 38 W., in SW 1/4 SW 1/4 sec. 7, about 800 ft. E. of T-rd. N., at SW. corner of steel bridge over East Tarkio Creek, on rivet head; chiseled cross	949.64

(Continued in Coin quadrangle; see line 5.)

2. NEAR EAST BORDER OF QUADRANGLE AT IOWA-MISSOURI STATE LINE

(by H. W. Gross in 1936)

(Continued from Coin quadrangle; see line 2.)

Tps. 66 and 67 N., Rs. 38 and 39 W., cor. of, 37 ft. S. and 37 ft. E. from, 10 ft. S. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "810 C W A 1934"	1,021.177
Reference mark, 50 ft. N. and 70 ft. W. from tablet, on top of head wall of concrete culvert; chiseled cross	1,021.84

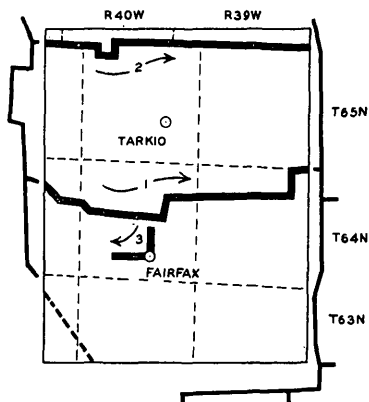
3. LINE TO DETERMINE ELEVATION OF WATER-RESOURCES GAGE 3.5 MILES

WEST OF WESTBORO (by Charles E. Hunter in 1936)

T. 66 N., R. 40 W., cor. secs. 11, 12, 13, and 14, 35 ft. S. and 20 ft. W. from junction of State Highway 59 and County Route C, on W. head wall of concrete culvert; chiseled square	1,025.51
Westboro, 3.5 mi. W. of, along County Route C, in NW 1/4 sec. 13, T. 66 N., R. 40 W., in bridge over West Tarkio Creek, in S. row in right bearing plate of S. truss; top of left rivet (set by water-resources branch of U.S. Geol. Survey)	953.45
Westboro, 3.5 mi. W. of, along County Route C, in NW 1/4 sec. 13, T. 66 N., R. 40 W., in bridge over West Tarkio Creek, in S. row in left bearing plate of S. truss; top of right rivet (set by water-resources branch of U.S. Geol. Survey)	953.44
Steel bridge over West Tarkio Creek, at SW. corner of, on rivet head; chiseled cross	957.07

TARKIO QUADRANGLE*
(Latitude $40^{\circ}15'$ - $40^{\circ}30'$; longitude $95^{\circ}15'$ - $95^{\circ}30'$)

Atchison and Holt Counties



1. EAST THROUGH CENTER OF QUADRANGLE (by S. T. Tudor in 1936)
(Continued from Nemaha quadrangle; see line 1.)

	<u>Feet</u>
Dip in rd., 25 ft. N. and 200 ft. W. from, in S. side of telephone pole; wire nails	1,041.50
T. 64 N., R. 41 W., about 800 ft. W. of center sec. 11, 90 ft. W. of dwelling, 25 ft. E. of rd., in root on N. side of 12-in. maple tree; nail and washer	1,109.59
Mount Pleasant School, at entrance to, on top of SE. corner of bottom concrete step; painted square	1,095.14
Crossroads, 20 ft. N. and 165 ft. E. from, in root on S. side of 12-in. cherry tree; crossed nails	1,147.20
T. 64 N., R. 41 W., near center sec. 12, 25 ft. S. and 190 ft. E. from T-rd. N., 75 ft. NE. of dwelling owned by W. G. Oswald, in concrete post; standard tablet stamped "818 C W A 1934"	1,126.376
T-rd. S., 10 ft. S. and 20 ft. E. from, in root on S. side of 12-in. elm tree; crossed nails	1,086.67
T. 64 N., R. 40 W., center sec. 7, about 800 ft. E. of T-rd. S., at entrance to Methodist Church, on top of N. end of bottom step; painted square	1,131.91
T. 64 N., R. 40 W., about 20 ft. S. and 250 ft. E. from cor. secs. 7, 8, 17, and 18, in root on N. side of 24-in. elm tree; copper nail and washer	1,099.30
Rd. at fence S., 20 ft. N. and 130 ft. E. from, in S. side of telephone pole; crossed nails	1,008.84
T. 64 N., R. 40 W., cor. secs. 8, 9, 16, and 17, 30 ft. S. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "819 C W A 1934"	1,013.057
Bend in creek, 75 ft. S. of, 20 ft. S. of rd., in N. side of telephone pole; crossed nails	920.62
T. 64 N., R. 40 W., near cor. secs. 9, 10, 15, and 16, at SE. corner of steel bridge over Tarkio River, on top of concrete piling; chiseled square	895.88
Fairfax, 1.4 mi. N. of, along U.S. Highways 59 and 275, quarter cor. between secs. 10 and 15, T. 64 N., R. 40 W., 460 ft. S. of junction of rd. E., 18 ft. S. and 27 ft. W. from junction of rd. W., in front of dwelling of Albert Volger, in concrete post; standard tablet stamped "820 C W A 1934"	910.707
Crossroads, 20 ft. S. and 40 ft. W. from, in N. side of telephone pole; crossed nails	947.96
Rd. at fence E., 10 ft. S. and 30 ft. W. from, in root on W. side of 12-in. walnut tree; crossed nails	983.75
T. 64 N., R. 40 W., near cor. secs. 2, 3, 10, and 11, about 25 ft. N. and 100 ft. E. from T-rd. S., in root on S. side of 15-in. box-elder tree; copper nail and washer	969.72
Oak Grove School, on top of NW. corner of concrete porch; painted square	1,001.68
T. 64 N., R. 40 W., cor. secs. 1, 2, 11, and 12, about 25 ft. N. and 150 ft. W. from crossroads, in root on NE. side of 30-in. cottonwood tree; copper nail and washer	1,064.46
Rd. at N.-S. fences, 15 ft. S. and 10 ft. E. from, in root on N. side of 10-in. cherry tree; crossed nails	1,061.64
T. 64 N., Rs. 39 and 40 W., cor. secs. 1, 6, 7, and 12, 775 ft. W. of crossroads, 200 ft. S. of dwelling owned by W. N. Martin, 20 ft. S. of rd., in concrete post; standard tablet stamped "821 O W A 1934"	1,061.268
Top of hill, 10 ft. S. and 50 ft. W. from dwelling, 15 ft. N. of rd., in root on W. side of 10-in. elm tree; crossed nails	1,067.46

*A small part of this quadrangle lies in Nebraska.

T. 64 N., R. 39 W., about 700 ft. W. of quarter cor. between secs. 6 and 7, 25 ft. N. and 60 ft. W. from wooden bridge, in root on N. side of 30-in. willow tree; copper nail and washer	Feet 970.44
Crossroads, 20 ft. N. and 65 ft. E. from, in S. side of telephone pole; crossed nails	1,051.05
Top of hill, 20 ft. N. of rd., in S. side of telephone pole; crossed nails	1,046.50
T. 64 N., R. 39 W., cor. secs. 4, 5, 8, and 9, 50 ft. N. and 140 ft. W. from crossroads, in root on S. side of 36-in. cottonwood tree; copper nail and washer	988.47 962.20
Bridge, in top of NE. corner of floor; copper nail and washer	
T. 64 N., R. 39 W., about 0.3 mi. E. of cor. secs. 3, 4, 9, and 10, 75 ft. S. of dwelling owned by E. V. Roberts, 25 ft. N. of rd., in concrete post; standard tablet stamped "822 C W A 1934"	1,067.006
Dwelling, 80 ft. N. and 35 ft. W. from, 25 ft. S. of rd., in N. side of telephone pole; crossed nails	1,042.90
T. 64 N., R. 39 W., cor. secs. 2, 3, 10, and 11, 30 ft. S. and 135 ft. W. from crossroads, in root on W. side of 12-in. elm tree; copper nail and washer	1,077.33 1,018.86
Bridge, in NE. corner of wooden floor; copper nail and washer	
T. 64 N., R. 39 W., cor. secs. 1, 2, 11, and 12, about 800 ft. W. of crossroads, at NE. corner of steel bridge, on top of E. rivet head in bearing plate; painted rivet head	996.29
Wooden bridge, 550 ft. N. of, 10 ft. E. of rd., in W. side of 24-in. willow tree; crossed nails	1,025.40
Tps. 64 and 65 N., R. 39 W., cor. secs. 1, 2, 35, and 36, 40 ft. S. and 25 ft. E. from T-rd. W., in root on W. side of 24-in. maple tree; copper nail and washer	1,094.28 1,074.55
Cross fences, in top of corner post; copper nail and washer	

(Continued in Skidmore quadrangle; see line 4.)

2. EAST ALONG NORTH BORDER OF QUADRANGLE (by S. T. Tudor and T. G. Drummond in 1936)

(Continued from Nemaha quadrangle; see line 3.)

T. 66 N., Rs. 40 and 41 W., S. cor. secs. 31 and 36, near T-rd. N., at SE. corner of wooden bridge, in top of wooden piling; copper nail and washer	1,002.60
Steel bridge over Rock Creek, in NW. corner of floor; copper nail and washer	980.60
T. 66 N., R. 40 W., 300 ft. N. and 500 ft. E. from S. cor. secs. 31 and 32, 120 ft. N. of center of bridge, 12 ft. N. of E-W. rd., in concrete post; standard tablet stamped "Prim Trav Sta No 42 L S 1923 Mo"	1,014.412
Dwelling, 150 ft. S. and 200 ft. W. from, in root on S. side of 18-in. sycamore tree; crossed nails	1,091.96
T. 66 N., R. 40 W., 0.2 mi. E. of S. cor. secs. 32 and 33, 50 ft. N. and 60 ft. W. from T-rd. N., in root on S. side of 18-in. walnut tree; copper nail and washer	1,139.98
T. 66 N., R. 40 W., about 200 ft. W. of S. cor. secs. 33 and 34, at SW. corner of steel bridge, in bearing plate; top of SE. bolt	1,014.75
T. 66 N., R. 40 W., 500 ft. E. of S. quarter cor. sec. 34, 15 ft. S. of E-W. rd., in concrete post; standard tablet stamped "Prim Trav Sta No 43 J S 1923 Mo"	1,091.739
Crossroads, 20 ft. N. and 140 ft. E. from, 3 ft. above ground in S. side of 18-in. locust tree; copper nail	999.99
Tps. 65 and 66 N., R. 40 W., on line between secs. 3 and 35, 20 ft. S. and 20 ft. W. from U.S. Highway 59 at rd. W., on top of head wall of concrete culvert; chiseled square	936.72
T-rd. S., 18 ft. S. and 30 ft. W. from, on N. side of 8-in. fence post; surface of ground	1,000.8
T. 66 N., Rs. 39 and 40 W., S. cor. secs. 31 and 36, 20 ft. S. and 70 ft. W. from T-rd. N., in root of one of group of box-elder trees; copper nail and washer	1,006.09
Steel bridge, at NW. corner of, 230 ft. E. of Chicago, Burlington & Quincy R.R. at rd. crossing, 8 ft. N. of rd., on rivet head; chiseled cross	935.06
T-rd. S., 21 ft. S. and 15 ft. W. from, on iron pipe culvert; painted square	947.30
T. 66 N., R. 39 W., near W. sixteenth cor. on S. line sec. 32, 20 ft. N. and 105 ft. E. from T-rd. N., in line with T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 44 J S 1923 Mo"	1,050.604
T. 66 N., R. 39 W., S. cor. secs. 32 and 33, 12 ft. S. and 100 ft. E. from T-rd. N., on iron pipe culvert; chiseled square	991.06
T. 66 N., R. 39 W., S. quarter cor. sec. 33, 21 ft. N. and 60 ft. W. from T-rd. N., in root on E. side of 10-in. wild-cherry tree; copper nail and washer	1,003.14
T. 66 N., R. 39 W., near S. quarter cor. sec. 34, at SE. corner of bridge over East Tarkio Creek, on rivet head; chiseled square	928.58
T. 65 N., R. 39 W., 660 ft. W. of N. cor. secs. 3 and 4, 12 ft. N. of E-W. rd., 260 ft. E. of dwelling of Mrs. Elizabeth Glenn, in concrete post; standard tablet stamped "Prim Trav Sta No 45 J S 1923 Mo"	967.898 968.69
Bridge, in SW. corner of; crossed nails	
T. 66 N., R. 39 W., S. cor. secs. 35 and 36, 10 ft. N. and 60 ft. E. from T-rd. N., on iron pipe culvert; chiseled square	1,003.16
T-rd. S., 12 ft. N. and 450 ft. E. from, on iron pipe culvert; chiseled square	1,039.56
T. 66 N., Rs. 38 and 39 W., S. cor. secs. 31 and 36, 10 ft. N. and 230 ft. E. from T-rd. N., in wooden box culvert; copper nail and washer	1,053.06
T-rd. S., 140 ft. W. of, on SE. wing wall of bridge; chiseled square	1,009.91

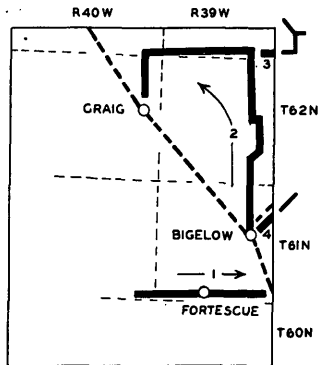
3. LINE TO DETERMINE ELEVATION OF WATER-RESOURCES GAGE ABOUT 0.6 MILE WEST OF FAIRFAX (by Charles E. Hunter in 1936)

Fairfax, about 1.2 mi. N. of Chicago, Burlington & Quincy R.R. sta., in W. end of N. wooden abutment of R.R. trestle; copper nail and washer	Feet 893.81
Fairfax, 30 ft. N. and 20 ft. W. from curve in U.S. Highway 275, on W. head wall of concrete culvert; chiseled square	894.97
Fairfax, about 0.6 mi. W. of, at E. end of downstream truss of steel bridge over Tarkio River, on southeasternmost rivet of anchorplate; chiseled cross (set by water-resources branch of U.S. Geol. Survey)	897.55

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Sioux City, Iowa to Kansas City, Mo.

CRAIG QUADRANGLE*
(Latitude 40°00'-40°15'; longitude 95°15'-95°30')

Holt County



1. FROM POINT ABOUT 3 MILES WEST OF FORTESCUE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO NAPIER (by C. P. McKinley in 1911)

Fortescue, about 3 mi. W. of, along Chicago, Burlington & Quincy R.R., on line between secs. 35 and 36, T. 61 N., R. 40 W., 500 ft. NW. of rd. forks, 200 ft. N. of dwelling, 75 ft. N. of rd. crossing, 20 ft. W. of rd.; iron post stamped "857"	855.766
Fortescue, 500 ft. W. of Chicago, Burlington & Quincy R.R. sta., 400 ft. W. of elevator at W. end of switch, 60 ft. SE. of rd. crossing; iron post stamped "861"	859.743
Fortescue, 2 mi. E. of, along Chicago, Burlington & Quincy R.R., 75 ft. N. of bridge 2.5, 300 ft. W. of dwelling, 100 ft. N. of rd. crossing, in root of large maple tree; copper nail	849.61
U.S.C.E. B.M. designated "304"	849.880
Top of cap	

2. FROM BIGELOW NORTH ALONG EAST BORDER OF QUADRANGLE TO NORTHEAST CORNER, THENCE WEST AND SOUTH TO CRAIG (by H. S. Senseney in 1916)

U.S.C.E. B.M. designated "306"	
Copper bolt	853.775
Top of cap	857.800
Bigelow, about 0.7 mi. E. of, near quarter cor. between secs. 10 and 11, T. 61 N., R. 39 W., NE. of rd. forks, in root of tree; copper nail	855.62
T. 61 N., R. 39 W., in NE. cor. sec. 3, 18 ft. S. of fence corner, W. of rd., in root of tree; copper nail	857.65
T. 62 N., R. 39 W., near N. cor. secs. 26 and 27, 25 ft. S. and 20 ft. W. from crossroads; iron post stamped "912"	911.615
Reference mark, SW. of crossroads, in root of tree; copper nail	911.95
T. 62 N., R. 39 W., center sec. 14, E. of T-rd. W., in root of tree; copper nail	980.64
T. 62 N., R. 39 W., quarter cor. between secs. 14 and 15, NE. of rd. corner from E.-N., in root of tree; copper nail and washer	933.85
T. 62 N., R. 39 W., cor. secs. 10, 11, 14, and 15, 35 ft. N. and 20 ft. W. from T-rd. W.; iron post stamped "926"	925.558
Reference mark, E. of T-rd. W., in root of tree; copper nail	926.14

*Part of this quadrangle lies in Nebraska.

	Feet
T. 62 N., R. 39 W., cor. secs. 2, 3, 10, and 11, SE. of crossroads, in root of tree; copper nail	921.43
T. 63 N., R. 39 W., cor. secs. 26, 27, 34, and 35, 50 ft. S. and 20 ft. E. from crossroads; iron post stamped "1042"	1,041.484
T. 63 N., R. 39 W., cor. secs. 28, 29, 32, and 33, NW. of crossroads, in root of tree; copper nail	1,030.39
T. 63 N., R. 39 W., in SE. cor. sec. 30, 20 ft. N. and 20 ft. W. from rd. forks; iron post stamped "929"	927.985
T. 63 N., R. 40 W., in NE. cor. sec. 36, SW. of crossroads, in root of tree; copper nail	910.52
T. 63 N., R. 40 W., in SW 1/4 NE 1/4 sec. 35, 25 ft. S. and 15 ft. E. from T-rd. S.; iron post stamped "1089"	1,088.816
T. 62 N., R. 40 W., about 0.1 mi. E. of N. quarter cor. sec. 2, W. of T-rd. E., in root of tree; copper nail	1,103.16
T. 62 N., R. 40 W., in NW 1/4 SE 1/4 sec. 2, 60 ft. S. of rd. forks, E. of rd., in root of tree; copper nail	945.97
Craig, in front of Chicago, Burlington & Quincy R.R. sta.; top of W. rail U.S.C.E. B.M. designated "309"	869.9
Copper bolt	863.338
Top of cap	867.354

3. IN NORTHEAST CORNER OF QUADRANGLE (by W. R. Broadus in 1924)
(Continued from Maitland quadrangle; see line 2.)

T. 63 N., R. 39 W., cor. secs. 25, 26, 35, and 36, 15 ft. N. and 105 ft. E. from crossroads, in root on NW. side of 18-in. box-elder tree; copper nail and washer	1,033.58
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4. FROM POINT NEAR BIGELOW NORTHEAST TO EAST BORDER OF QUADRANGLE

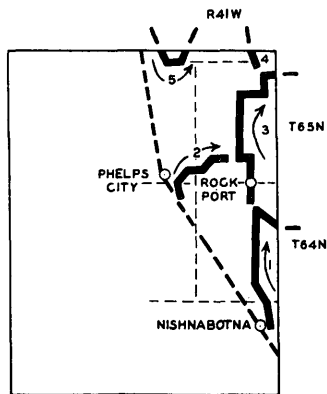
T. 61 N., R. 39 W., near quarter cor. between secs. 10 and 11, 150 ft. N. and 35 ft. E. from rd. forks, in root on S. side of 15-in. elm tree; copper nail and washer	855.54
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(Continued in Maitland quadrangle; see line 1.)

For additional level lines along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Sioux City, Iowa to Kansas City, Mo.; and second-order line, Bigelow to Burlington Jct.

NEMAHA QUADRANGLE*
(Latitude 40°15'–40°30'; longitude 95°30'–95°45')

Atchison County



1. FROM NISHNABOTNA NORTH TO POINT NEAR MIDDLE OF EAST BORDER OF QUADRANGLE (by S. T. Tudor in 1935)

Nishnabotna, 810 ft. S. of Chicago, Burlington & Quincy R.R. sta., 52 ft. E. of track, in NW. corner of orchard of R. E. Christian, in benchmark stone; U.S.C.E. B.M. designated "314"	
Copper bolt	872.068
Reference mark, 220 ft. N. and 30 ft. W. from post, in E. side of telephone pole; nail and washer	879.17
T-rd. E., 20 ft. N. and 50 ft. E. from, in S. side of telephone pole; nail and washer	878.66
T. 63 N., R. 41 W., 8 ft. S. and 8 ft. W. from N. quarter cor. sec. 3, 75 ft. NE. of dwelling, in concrete post; standard tablet stamped "816 C W A 1934"	877.813

* Part of this quadrangle lies in Nebraska.

	Feet
Reference mark, 90 ft. W. of tablet, in root on N. side of 30-in. maple tree; nail and washer	878.44
Rd. corner from S.-W., 25 ft. E. of, in W. side of gatepost; nail and washer	881.80
T. 64 N., R. 41 W., approximate quarter cor. between secs. 33 and 34, 20 ft. S. and 10 ft. W. from rd. corner E.-N., in N. side of gatepost; nail and washer	885.66
Crossroads, 20 ft. N. and 30 ft. E. from, in NW. corner of floor of wooden bridge; (mark not described)	882.2
T. 64 N., R. 41 W., 10 ft. N. and 8 ft. W. from approximate quarter cor. between secs. 27 and 28, in SW. corner of wooden floor of bridge; nail and washer	884.42
Crossroads, 8 ft. N. and 20 ft. W. from, in NE. corner of floor of bridge; nail and washer	884.20
T. 64 N., R. 41 W., 0.3 mi. S. of cor. secs. 15, 16, 21, and 22, in front yard of dwelling of William A. Luhr, 20 ft. W. of rd., in concrete post; standard tablet stamped "815 C W A 1934"	885.813
Reference mark, 20 ft. S. and 50 ft. W. from tablet, in root on NE. side of 20-in. cedar tree; nail	886.09
Steel bridge, in SW. corner of floor; nail and washer	905.98
T. 64 N., R. 41 W., on line between secs. 15 and 16, 40 ft. S. of rd. forks, in N. side of telephone pole; nail and washer	930.65
Bridge over Rock Creek, in NW. corner of floor; (mark not described)	904.15
Rock Creek, under bridge; surface of water	882.6
T. 64 N., R. 41 W., near E. sixteenth cor. sec. 9, 25 ft. S. and 100 ft. E. from T-rd. E., 20 ft. E. of Rockport, Langdon & Northern Ry., in W. side of telegraph pole; nail and washer	913.36
R.R. bridge, at S. end of; top of rail	923.7
Rockport, 1.4 mi. S. of, along Rockport, Langdon & Northern Ry., in W 1/2 sec. 3, T. 64 N., R. 41 W., 135 ft. S. and 32 ft. E. from crossroads, 25 ft. W. of track, in concrete post; standard tablet stamped "814 C W A 1934"	932.987
Reference mark 1, 130 ft. N. and 60 ft. E. from tablet, in W. side of telegraph pole; nail and washer	928.88
Reference mark 2, 240 ft. N. of tablet, on SW. corner of lower head wall of culvert; chiseled square	927.90
Bridge over Rock Creek, in NE. corner of floor; nail and washer	916.80
T. 64 N., R. 41 W., near cor. secs. 2, 3, 10, and 11, 100 ft. N. and 20 ft. W. from dwelling, in root on N. side of 10-in. walnut tree; nail and washer	1,069.18

(Continued in Tarkio quadrangle; see line 1.)

2. FROM POINT 2 MILES SOUTH OF PHELPS CITY NORTHEAST TO JUNCTION OF UNITED STATES HIGHWAY 275 AND STATE HIGHWAY 4 NORTHWEST OF ROCKPORT	
U.S.C.E. B.M. designated "317" Copper bolt	883.804
U.S.C.R. B.M. designated "318=106/3" Copper bolt	886.790
Phelps City, approximate quarter cor. between secs. 35 and 36, T. 65 N., R. 42 W., 40 ft. S. and 36 ft. E. from State Highway 4 at rd. N., in N. side of telephone pole; nail and washer	891.06
Bridge; W. end of S. curb	894.0
Phelps City, 1 mi. E. of, along State Highway 4, approximate quarter cor. between secs. 31 and 36, T. 65 N., R. 41 and 42 W., 50 ft. S. of highway at fence N., in N. side of telephone pole; nail and washer	893.40
Bridge over Nishnabotna River; W. end of S. curb	894.2
T. 65 N., R. 41 W., on line between secs. 31 and 32, at State Highway 4 bridge; W. end of N. curb	904.2
Culvert; top of W. end of lower head wall	1,011.66
T. 65 N., R. 41 W., near center sec. 29, on State Highway 4, on top of W. end of lower head wall of culvert; chiseled square	1,068.14
T. 65 N., R. 41 W., in sec. 28, 80 ft. N. of junction of U.S. Highway 275 and State Highway 4, in W. side of telephone pole; nail and washer	1,135.21
3. NORTH ALONG NORTH PART OF EAST BORDER OF QUADRANGLE	
County Route E at rd. E. to farm entrance, 120 ft. N. and 70 ft. E. from, in W. side of telephone pole; crossed nails	930.22
Rockport, 8 ft. E. of NE. corner of Rockport, Langdon & Northern Ry. sta., on top of concrete wall; chiseled square	939.88
South Methodist Church, at entrance to, on top of SW. corner of bottom step; painted square	934.73
Rockport, about 1.5 mi. NW. of, along U.S. Highway 275, in E 1/2 sec. 20, T. 65 N., R. 41 W., 21 ft. N. and 39 ft. E. from E.-W. cross rd., 150 ft. NE. of dwelling, in concrete post; standard tablet stamped "T T 812 C W A 1934"	1,180.875
U.S. Highway 275 at E.-W. cross rd., 60 ft. N. and 80 ft. E. from, in W. side of telephone pole; crossed nails	1,142.38
T. 65 N., R. 41 W., in sec. 16, 30 ft. W. of U.S. Highway 275, 180 ft. N. of E.-W. fence, on SW. corner of upper head wall of concrete culvert; chiseled square	1,148.66
U.S. Highway 275 at rd. W. at top of hill, 140 ft. N. and 40 ft. E. from, in W. side of telephone pole; crossed nails	1,165.84
T. 65 N., R. 41 W., in sec. 9, 20 ft. N. and 40 ft. E. from U.S. Highway 275 at E.-W. cross rd., in W. side of telephone pole; crossed nails	1,174.08

	<u>Feet</u>
U.S. Highway 275 at E.-W. cross rd., 20 ft. S. and 20 ft. W. from, on top of SW. corner of lower head wall of culvert; chiseled square Linden, about 0.7 mi. S. of, along U.S. Highway 275, center sec. 4, T. 65 N., R. 41 W., 25 ft. S. and 33 ft. E. from E.-W. cross rd., in concrete post; standard tablet stamped "T T 801 C W A 1934"	1,159.93
Reference mark, 70 ft. W. of tablet, on W. corner of upper head wall of concrete culvert; chiseled square	1,167.496
Linden, about 1 mi. SE. of, near quarter cor. between secs. 3 and 4, 25 ft. N. and 30 ft. W. from rd. corner N.-W., in concrete post; standard tablet stamped "Prim Trav Sta No 41 J S 1923 Mo"	1,165.12
Rd. corner from S.-E., 20 ft. S. and 40 ft. E. from, in root on E. side of 8-in. locust tree; crossed nails	1,137.244
T. 66 N., R. 41 W., 20 ft. S. and about 300 ft. W. from S. cor. secs. 35 and 36, 20 ft. N. and 60 ft. E. from steel bridge, in root on S. side of 15-in. walnut tree; copper nail and washer	1,129.92
T-rd. S., 20 ft. N. and 450 ft. E. from, in root 3 ft. E. of box-elder tree; crossed nails	1,027.60
	1,045.86

(Continued in Tarkio quadrangle; see line 2.)

4. IN NORTHEAST CORNER OF QUADRANGLE (by T. G. Drummond in 1936)

T. 66 N., R. 41 W., quarter cor. between secs. 34 and 35, 40 ft. N. and 30 ft. E. from U.S. Highway 275 at E.-W. cross rd., 200 ft. S. of filling sta., in root on S. side of 10-in. cedar tree; copper nail and washer	1,137.44
T. 66 N., R. 41 W., cor. secs. 26, 27, 34, and 35, 18 ft. S. and 30 ft. E. from U.S. Highway 275 at County Route A to W. and rd. E., opposite Lone Cedar School, on S. head wall of concrete culvert; chiseled square	1,051.14

(Continued in Hamburg quadrangle; see line 1.)

5. NEAR MIDDLE OF NORTH BORDER OF QUADRANGLE

(Continued from Hamburg quadrangle; see line 1.)

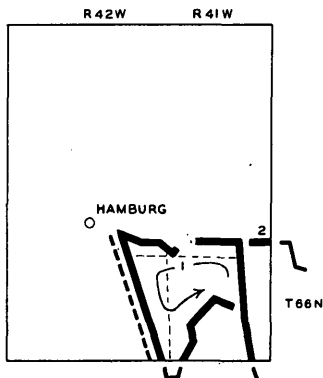
T. 66 N., R. 42 W., quarter cor. between secs. 25 and 36, 24 ft. N. and 50 ft. E. from T-rd. N. and private rd. S., in root on E. side of 36-in. maple tree; copper nail and washer	900.97
T. 66 N., R. 42 W., quarter cor. between secs. 30 and 31, 24 ft. E. of County Route A at rd. W., in front of dwelling on Ohrt farm, in concrete post; standard tablet stamped "1 D 1936"	916.145
Reference mark 1, 90 ft. N. of tablet, in root on W. side of 10-in. maple tree; copper nail and washer	914.63
Reference mark 2, 130 ft. N. and 6 ft. E. from tablet, in root on W. side of 10-in. maple tree; copper nail and washer	914.62

(Continued in Hamburg quadrangle; see line 1.)

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Sioux City, Iowa to Kansas City, Mo.

HAMBURG QUADRANGLE*
(Latitude 40°30'-40°45'; longitude 95°30'-95°45')

Atchison County



1. FROM SOUTHEAST CORNER OF QUADRANGLE NORTH TO IOWA-MISSOURI STATE LINE, THENCE WEST TO POINT ABOUT 1 MILE EAST OF HAMBURG, THENCE SOUTHEAST TO SOUTH BORDER, THENCE NORTHEAST ABOUT 3 MILES (by T. G. Drummond in 1936)
(Continued from Nemaha quadrangle; see line 4.)

	Feet
T. 66 N., R. 41 W., cor. secs. 22, 23, 26, and 27, 20 ft. S. and 24 ft. W. from U.S. Highway 275 at cross rd., on head wall of concrete culvert; chiseled square	990.92
T. 66 N., R. 41 W., quarter cor. between secs. 22 and 23, 30 ft. S. and 62 ft. E. from U.S. Highway 275 at rd. E., 235 ft. N. and 153 ft. W. from bridge, in concrete post; standard tablet stamped "802 C W A 1934"	948.437
Reference mark, 12 ft. N. of tablet, on E. end of head wall of concrete culvert; chiseled square	951.30
Crossroads, 24 ft. N. and 20 ft. W. from, on top of head wall of culvert; chiseled square	1,028.10
T. 66 N., R. 41 W., cor. secs. 10, 11, 14, and 15, 18 ft. N. and 15 ft. E. from crossroads, on top of head wall of concrete culvert; chiseled square	1,050.36
T. 66 N., R. 41 W., cor. secs. 2, 3, 10, and 11, 100 ft. E. of T-rd. E., at SW. corner of W. abutment of steel bridge over West High Creek, on rivet head; chiseled cross	966.18
Tps. 66 and 67 N., R. 41 W., cor. secs. 2, 3, 34, and 35, 30 ft. N. and 12 ft. W. from crossroads, on head wall of concrete culvert; chiseled square	1,051.96
T. 67 N., R. 41 W., cor. on line between secs. 34 and 35, 25 ft. S. and 27 ft. W. from crossroads on Iowa-Missouri State line, in concrete post; standard tablet stamped "803 C W A 1934"	1,033.749
Reference mark, 40 ft. N. and 30 ft. W. from tablet, in root on S. side of 30-in. maple tree; copper nail and washer	1,037.78
T. 67 N., R. 41 W., in NE 1/4 sec. 33, 5 ft. S. of rd., in W. pile cap of wooden bridge; copper nail and washer	1,026.33
T-rd. S., 21 ft. S. and 10 ft. E. from, on top of E. end of 24-in. iron pipe culvert; painted square	1,054.92
T. 67 N., R. 41 W., N. cor. secs. 32 and 33, 20 ft. N. and 260 ft. W. from T-rd. S. on Iowa-Mo. State line, in stump on S. side of 30-in. cottonwood tree; copper nail and washer	1,092.61
T. 67 N., R. 41 W., about 800 ft. S. of N. quarter cor. sec. 32, 31 ft. S. and 3 ft. W. from rd. fork SW. at fence S. on Iowa-Missouri State line, 7 ft. S. and 10 ft. W. from fence corner, in concrete post; standard tablet stamped "1483 E R A 1935"	1,077.845
Tps. 66 and 67 N., R. 41 W., near quarter cor. between secs. 5 and 32, 75 ft. S. and 90 ft. E. from T-rd. N., 65 ft. N. and 30 ft. W. from schoolhouse, in root on E. side of 18-in. elm tree; copper nail and washer	1,080.67
T-rd. S., 30 ft. S. and 25 ft. W. from, on N. side of 10-in. corner fence post; surface of ground	1,069.6
Rd. junction, 18 ft. S. and 12 ft. W. from, on N. side of 10-in. corner fence post; surface of ground	1,096.5
T. 67 N., Rs. 41 and 42 W., about 1,000 ft. S. of N. cor. secs. 31 and 36, 298 ft. S. of Iowa-Missouri State line, 16 ft. S. and 19 ft. W. from junction of lane W., on property of Andrew Speigel, in concrete post; standard tablet stamped "1484 E R A 1935"	1,066.567
T. 67 N., R. 42 W., near S. sixteenth cor. sec. 25, 24 ft. S. and 12 ft. E. from T-rd. E., in top of 12-in. corner fence post; copper nail and washer	1,064.82

*The greater part of this quadrangle lies in Iowa and Nebraska.

