

INDEX OF PERMANENT MARKS

NGVD 29
 Elevations

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| ISOLATED BENCH MARKS (By F. P. Hoover, 1909; Book A8296) | Feet |
|--|----------|
| Lincolnton, 2.7 mi W. of; 4 ft S. of S. rail; in rock; standard tablet stamped "838" | 838.469 |
| Crouse, 4.3 mi W. of Lincolnton; 100 ft N. of N. track at station; at SW. corner of grocery store of H. E. Hefner; in brick wall; standard tablet stamped "855" (Tied by NGS, 1935) (Reported destroyed, 1973) | 855.510 |
| Crouse, 2.9 mi W. of station; near rd. crossing; 75 ft N. of N. track; in brick chimney in S. wall of residence of J. H. Black; standard tablet stamped "925" (Reported destroyed, 1935) | 925.000 |
| Cherryville, 0.8 mi W. of; 100 ft S. of S. track; in N. wall of stone chimney at E. side of residence of J. Beard; standard tablet stamped "908" (Reported destroyed, 1935) | 908.339 |
| Waco, 0.9 mi W. of; 125 ft S. of S. track; in brick chimney of house, W. side of N. wall; standard tablet stamped "896" (Reported destroyed, 1935) | 895.484 |
| Waco, 4.0 mi S. of; in forks of rd. going S. from Waco to Kings Mountain; intersection of main rd. and shortcut rd. on right going out on Shelby and Kings Mountain Road; on iron post; standard cap stamped "952" (Not found, 1973) | 951.634 |
| Waco, 7.0 mi S. of; in SW. corner of forks of private rd. leading off main Kings Mountain Road; on right going S. from Waco back to house; 900 ft off rd.; on iron post; standard cap stamped "1001" (Not found, 1973) | 1000.955 |
| Bessemer City, 100 ft S. of RR.; in NW. corner of Slater Manufacturing Mills; 1 ft E. of W. wall; standard tablet stamped "899" (Tied by NGS, 1935) (Reported destroyed, 1973) | 899.037 |
| Bessemer City, 3.0 mi N. of; in forks of Bessemer City and Cherryville Roads; 100 ft behind barn on left; on rd. leading S. direct to Hovis merchandise store; on iron post; standard cap stamped "874" (Not found, 1973) | 874.292 |
| Bessemer City, 6.4 mi N. of; 30 ft S. of old house; in forks of main Cherryville and Dallas Roads; on iron post; standard cap stamped "977" (Reported destroyed, 1973) | 977.131 |
| Lincolnton, 3.0 mi W. of; on top of hill looking E. down into Lincolnton; in front of residence of James Clarke; on iron post; standard cap stamped "922" | 921.803 |

ISOLATED MARKS (Cont'd.)

NGVD 29
Elevations

Feet

- Lincolnton, 6.5 mi NW. of; in forks of Morganton and Flay
Roads; in front of store of J. M. Smith; on iron post;
standard cap stamped "PRIM TRAV STA NO 3 994" *REF NOT ADEQUATE FOR RECOVERY 1982* 993.651
- Flay, 2.0 mi E. of; on right-hand side of rd. leading to Flay;
30 ft S. of bridge over Indian Creek; 75 ft N. of rd.
forks going to Newton; on iron post; standard cap stamped
"845" (Not found, 1973) 844.675
- Flay; in forks of main rd. leading S. to Cherryville; in SW.
corner of forks; on bank opposite Childers and Beams Store;
on iron post; standard cap stamped "1050" (Not found, 1973) 1050.531
- Beams Mills, 3.0 mi E. of; on E. side of store of Julius Turner;
in forks of Fallston-Waco Road; on iron post; standard cap
stamped "985" (Elevation lost) (Reported destroyed, 1954)

LINE 1.

S. R. Archer, 1921; Book B1033

(Lincolnton; on E. side of N. end of county courthouse; standard
tablet stamped "869 COLUMBIA 1900" 868.233)

U.E., Lincolnton, 1.0 mi S. of; at Seaboard Air Line Railway
overhead RR. bridge over Carolina and Northwestern RR. track;
at foot of N. end of W. concrete abutment; on top of
horizontal step at foot of sloping wingwall; chiseled square 767.33

U.E., Laboratory Station, 0.2 mi NW. of; 280 ft N. of point
of tangent to N.; 25 ft S. of culvert under track; 40 ft E.
of track; in line with center of W. side of barn E. of RR.;
just W. of small pine tree; on top of rock outcrop; (out-
crop about same elevation as track); chiseled square 754.02

U.E., Laboratory Station, 200 ft S. of station and rd. crossing; on
E. end of N. concrete abutment of hwy. bridge over South
Fork of Little Catawba River; chiseled square 752.10

Jogs into Gastonia quadrangle

U.E., Southside Station, 0.9 mi SW. of; on E. side of hollow
to NE. (house standing in hollow); 50 ft E. of culvert; at
N. side and 0.5 ft lower than top of rail; near W. end of
small rock cut at W. end of 0.25 mi tangent to SW.; on top
of rock outcrop; chiseled square 731.08

LINE 2.

NGVD 29
Elevations

Feet

By R. L. Beitle, 1945; Book V 180

U.E., Gastonia, 3.6 mi W. of State Armory, along U. S. Highway 29 and State Highway 74; 19 ft N. and 16 ft E. of junction of T-rd. N.; on E. concrete headwall of culvert under dirt rd.; chiseled square

729.05

LINE 3.

By W. S. Monk, 1949; Book AV 88

Patterson Springs, 3.3 mi N. of, along Patterson Springs-Fallston Road; 25 ft N. and 115 ft W. of junction of Patterson Springs-Fallston Road and rd. to Shelby; 50 ft SW. of SW. corner of Poston residence; in concrete post projecting 0.2 ft; standard tablet stamped "82 WSM 1949 933" (Not found, 1973)

932.737

Reference mark; 25 ft E. of tablet; in root on SW. side of 18-in. oak tree; copper nail and washer

931.79

U.E., Patterson Springs, 3.9 mi N. of, along Patterson Springs-Fallston Road; 0.5 mi S. of Elizabeth Church; 75 ft S. and 10 ft W. of junction of Patterson Springs Road and U. S. Highway 74; on center of concrete headwall of culvert; chiseled square

929.88

Elizabeth Church, 1.0 mi N. of; 0.7 mi S. of State Highway 150; 40 ft S. of SE. corner of residence; 30 ft W. of Patterson Springs-Fallston Road; 4 ft N. of power pole; in concrete post projecting 0.3 ft; standard tablet stamped "83 WSM 1949 926" (Not found, 1973)

925.785

Reference mark; 25 ft NW. of tablet; in root on SE. side of 8-in. apple tree; copper nail and washer

925.73

"P 77 1935" (NGS)

880.080

LINE 4.

By R. L. Beitle, 1949; Book AV 90

"P 77 1935" (NGS) (Also in line 3)

880.080

[Jogs into Shelby quadrangle]

NGVD 29
Elevations

LINE 4 (Cont'd.)

Feet

Fallston, 2.9 mi S. of, along State Highway 18; 7.9 mi N. along State Highway 18 from Shelby Post Office; at Beams Mill; 680 ft N. of Pleasant Grove Baptist Church; 450 ft E. of Highway 18; on dirt rd. and in SW. corner of crossroads; 33 ft S. of centerline of fork W.; 28 ft W. of centerline of fork S.; 9 ft NE. of NE. corner of porch; on iron pipe; standard cap stamped "PRIM TRAV STA NO 5 1909 1001" 1000.716

Reference mark; 70 ft N. of tablet; 55 ft W. and 32 ft N. of intersection of crossroads; in concrete post; iron rod 1002.58

LINE 5.

By R. H. Paine, 1951; Book AV 248

"LINCOLN TON 1933" (NGS) 860.307

Lincolnton, 1.9 mi NW. of; at concrete bridge over South Fork of Catawba River; in NW. end of SW. concrete wheelguard; standard tablet stamped "51 RHP 1951 776" 776.493

LINE 6.

By R. H. Paine, 1951; Book AV 248

Halls Crossroads, 1.5 mi E. of; 4.2 mi SW. of Union School; about 130 ft N. of NW. corner of Brotherton Grocery; at crossroads; 32 ft N. of State Highway 27; 22 ft E. of graveled rd.; 17 ft W. of power pole with transformer; in concrete post; standard tablet stamped "42 RHP 1951 1032" 1032.113

LINE 7.

By H. L. Zohn, Jr., 1970; Book AV 1556

1 61 2.09 Long Shoals, 2.4 mi S. of Long Shoals Baptist Church, along county rd.; at Lander's Chapel; in W. end of walkway to main entrance; standard tablet stamped "46 HLZ 1970" 905.569

1 63 3.87 Long Shoals, 4.1 mi SW. of Long Shoals Baptist Church, along county rd.; at Bethel Lutheran Church; in N. end of bottom step; standard tablet stamped "47 HLZ 1970" 949.770

/Jogs into Gastonia quadrangle/

LINE 7 (Cont'd.)NGVD 29
ElevationsFeet

| | | | | |
|---|----|-------|--|---------|
| 1 | 69 | 8.18 | Bessemer City High School, 1.3 mi NE. of, along county rd.; at 145-ft concrete bridge over Long Creek; in NE. end of NW. guardrail base; standard tablet stamped "50 HLZ 1970" | 752.082 |
| 1 | 71 | 9.45 | Bessemer City; in front of Bessemer City High School; at 8-ft concrete culvert; 19 ft W. of, and about 2 ft lower than centerline of rd. opposite; in S. end of culvert; standard tablet stamped "51 HLZ 1970" | 867.946 |
| 1 | 73 | 10.34 | "N 40 1932 903.896" (NGS) | 903.953 |

LINE 8.

By H. L. Zohn, Jr., 1971; Book AV 1602

| | | | | |
|---|----|------|--|-------------------------------|
| 4 | 50 | 6.64 | Shelby, 2.5 mi E. and SE. of junction of State Highway 180, along U. S. Highway 74; at bridge over Buffalo Creek (westbound lane of Highway 74); in SE. wingwall; standard tablet stamped "67 HLZ 1971 668" | 668.347 |
| 4 | 51 | 7.36 | U.E., about 0.7 mi NW. of bridge over Buffalo Creek; in center of paved break in median strip (U. S. Highway 74); copper nail and washer | 783.58 |
| 4 | 52 | 7.94 | U.E., in junction of U. S. Highway 74 Bypass (westbound lane) and Highway 74 Business; copper nail and washer | 854.51 |
| 4 | 53 | 8.25 | Shelby, 0.75 mi E. of junction of State Highway 180, along U. S. Highway 74; 23 ft SW. of billboard; 63 ft NE. of centerline of westbound lanes of Highway 74; 74 ft N. of, and about 1 ft lower than junction of westbound lanes of Highway 74 and side rd. running parallel to Highway 74; in concrete post projecting 0.2 ft; standard tablet stamped "68 HLZ 1971 826" RESET 1981 | 826.048 833.107 |
| 4 | 54 | 9.05 | U.E., in centerline of westbound lanes of U. S. Highway 74 at junction of State Highway 180; copper nail and washer | 931.19 |
| 4 | 55 | 9.64 | U.E., in junction of State Highway 180 and County Road 1232; copper nail and washer | 906.75 |

* 0.3 mi W. of junction of US 74 BUS & US 74 BYPASS, at int. of east bound lane and SR 2317 (which parallels US 74); 74' SSW of E. Bnd. lane at int. with SR 2317, 9' ESE of gravel drive to ROBT. A. RANDALL RES., 1.5 ESE OF NE COR. OF BRICK COLUMN and 10' W. of a PP with trans. and tag

LINCOLN TON QUADRANGLE
Book AV 1680

119 NORTH CAROLINA

Joe Gardner

35-081-24

8

1973

LINE 9.

Feet

By Joe W. Gardner, 1973; Book AV 1680

NGVD 29
Elevations

| | | | | | |
|---|---|------|---|------------------------------------|-------------------------|
| 1 | 1 | 0.00 | "Y 77 1934" (NGS) | | 804.651 |
| 1 | 2 | 1.72 | Crouse; 43 ft SW. of, and about level with centerline of T-rd. W.; 4.5 ft N. of NE. corner of Crouse Methodist Church; 1 ft E. of W. end of concrete walk; standard tablet stamped "1 JWG 1973 860" | RECOVERED AS DESCRIBED <u>2/87</u> | 860.143 |
| 1 | 3 | 2.60 | U.E., in centerline of T-rd. NW.; nail and bottle cap | | 882.23 |
| 1 | 4 | 3.10 | Crouse, 1.4 mi SW. of, along State Highway 150 from post office; 45 ft N. of, and 8.3 ft lower than rd. at small drain crossing; 0.8 ft W. of E. end of concrete headwall; standard tablet stamped "2 JWG 1973 861" | RECOVERED AS DESCRIBED <u>2/87</u> | 861.009 |
| 1 | 6 | 4.50 | Crouse, 2.8 mi SW. of, along State Highway 150 from post office; 1.7 mi NE. of First United Methodist Church in Cherryville, along Highway 150; at junction of State Highway 150 and County Road 1002; 180 ft NE. and 29 ft N. of, and 4.1 ft lower than T-rd. N.; 0.5 ft NE. of SW. end of concrete headwall; standard tablet stamped "3 JWG 1973 918" | RECOVERED AS DESCRIBED <u>2/87</u> | 918.100 |
| 1 | 7 | 5.46 | Cherryville, 1.5 mi NE. of First United Methodist Church, along State Highway 150; 58.5 ft S. of, and 14.6 ft lower than centerline of rd. at drain crossing; 0.5 ft N. of E. end of concrete headwall; standard tablet stamped "4 JWG 1973 893" | RECOVERED AS DESCRIBED <u>2/87</u> | 893.357 ⁰² * |
| 1 | 8 | 6.19 | U.E., centerline of T-rd. N. | | 957.32 |
| 1 | 9 | 6.91 | Cherryville; 400 ft SSE. of First United Methodist Church; at junction of Church Street and Pink Street; 30 ft NE. of, and 2.7 ft higher than centerline of crossroads; in SW. corner of corner of concrete retainer wall; standard tablet stamped "5 JWG 1973 960" | RECOVERED AS DESCRIBED <u>2/87</u> | 959.999 |

* Per NCOOT-9-18-90

| <u>LINE 9 (Cont'd.)</u> | | | NGVD 29 Elevations | <u>Feet</u> |
|-------------------------|----|-------|---|-------------|
| 1 | 10 | 7.60 | U.E., centerline of T-rd. N. (County Road 1651 and State Highway 50) | 966.22 |
| 1 | 11 | 8.42 | Cherryville, 1.5 mi SW. of, along State Highway 150 from First United Methodist Church; in front of Beam Ford Sales; 54 ft S. and 35 ft E. of, and 3 ft higher than centerline of rd. at easternmost drive S.; in concrete base of security light; standard tablet stamped "6 JWG 1973 937" | 936.523 |
| 1 | 12 | 9.24 | Cherryville, 2.3 mi SW. of, along State Highway 150 from First United Methodist Church; 1.0 mi NE. of Waco; 21 ft SE. of centerline of bridge; 2 ft W. of E. end of S. concrete wheelguard; standard tablet stamped "7 JWG 1973 820" | 820.305 |
| 1 | 13 | 9.59 | U.E., centerline of T-rd. W. (1-73 AC) | 883.07 |
| 1 | 14 | 10.26 | Waco; at junction of State Highway 150 and County Road 1001; 36 ft SW. of, and 1 ft higher than centerline of crossroads; 20 ft W. of N. end of bridge; in NW. abutment of bridge over RR.; standard tablet stamped "8 JWG 1973 934" | 934.027 |
| 1 | 15 | 10.91 | U.E., in centerline of bridge; nail and bottle cap | 937.86 |
| 1 | 16 | 11.80 | Waco, 1.5 mi SW. of, along State Highway 150; 48 ft S. and 50 ft W. of, and 1.2 ft higher than rd. at T-rd. S.; in E. end of gas pumps base; standard tablet stamped "9 JWG 1973 879" | 878.742 |
| 1 | 17 | 12.75 | U.E., centerline of Y-rd. NE. | 904.22 |
| 1 | 18 | 13.65 | U.E., centerline of old RR. crossing | 837.02 |
| 1 | 19 | 14.03 | "Q 77 1934" (NGS) | 820.241 |

LINE 10.

By Joe W. Gardner, 1973; Book AV 1680

| | | | | |
|---|----|------|--|---------|
| 1 | 20 | 0.00 | "3 JWG 1973 918" (Described in line 9) | 918.100 |
| 1 | 20 | 0.56 | U.E., centerline of T-rd. W. | 873.77 |

| | | | NGVD 29 Elevations | Feet |
|--|----|------|---|----------|
| <u>LINE 10 (Cont'd.)</u> | | | | |
| 1 | 21 | 1.19 | Crouse, 2.8 mi S. of, along State Highway 150, thence 1.2 mi NW. along County Road 1002; 2.8 mi SE. of Johnstown; in N. wheelguard of E. end of concrete bridge; standard tablet stamped "10 JWG 1973" | 796.437 |
| Centerline of E. end of bridge = 796.357 | | | | |
| WL = 771 ft | | | | |
| 1 | 23 | 2.47 | U.E., centerline of offset crossroad (rd. at rd. W.) | 930.27 |
| 1 | 24 | 3.11 | U.E., centerline of rd. at lane NE. | 962.96 |
| 1 | 25 | 3.96 | Johnstown; 175 ft NW. of centerline of crossroad; 3 ft higher than crossroad; 3 ft S. of N. end of concrete walk; 89 ft SE. of SE. corner of Bethphage Church; in concrete walk; standard tablet stamped "11 JWG 1973" | 981.138 |
| 1 | 26 | 4.51 | U.E., in centerline of T-rd. NE.; nail and bottle cap | 967.36 |
| 1 | 27 | 5.20 | U.E., centerline of rd. at lane SW. | 999.58 |
| 1 | 28 | 5.93 | Bethphage Lutheran Church, 2.0 mi NW. of; 250 ft NW. of junction of County Roads 1002 and 1190; 11 ft SE. of NE. corner of church; 0.8 ft SW. of NE. corner of concrete steps; in bottom step 0.6 ft above ground; standard tablet stamped "12 JWG 1973 RESET 1976" (Reset tablet set in same hole - same elevation.) | 1027.213 |
| 1 | 29 | 6.70 | U.E., centerline of T-rd. NE. | 1003.81 |
| 1 | 30 | 7.12 | Bethphage Lutheran Church, 2.8 mi NW. of; at West Lincoln High School; 123 ft SE. of SE. corner of school; 130 ft W. of, and 2.5 ft lower than centerline of T-drive SW.; 2.5 ft NW. of SE. edge of sidewalk; 0.8 ft SW. of NE. edge of sidewalk; in concrete walk; standard tablet stamped "13 JWG 1973" | 991.219 |

NGVD 29
Elevations

NGVD 29
Elevations

1973

LINE 11.

Feet

By Joe W. Gardner, 1973; Book AV 1680

NGVD 29
Elevations

| | | | | |
|-------------|----|------|---|------------------------------|
| 1 | 34 | 0.00 | "11 JWG 1973" (Described in line 10) | 981.138 |
| 1 | 34 | 0.71 | U.E., in centerline of rd. at drive S.; nail and bottle cap (PP 1-59C) | 885.71 |
| 1 | 35 | 1.01 | Johnstown, 1.0 mi SW. of Bethphage Lutheran Church; 15 ft SE. of, and 0.8 ft higher than E. end of bridge; 1 ft W. of E. end of S. wheelguard; standard tablet stamped "14 JWG 1973" | 820.987 |
| WL = 798 ft | | | | |
| 1 | 37 | 1.69 | U.E., in centerline of T-rd. S.; nail and bottle cap | 949.00 |
| 1 | 38 | 2.29 | U.E., in centerline of T-rd. S.; nail and bottle cap | 949.77 |
| 1 | 39 | 2.73 | U.E., in centerline of T-rd. N.; nail and bottle cap | 952.26 |
| 1 | 40 | 3.16 | Johnstown, 3.2 mi SW. of Bethphage Lutheran Church; 19.7 ft N. of, and 1.8 ft lower than centerline of rd. at drain crossing; in center of concrete culvert; standard tablet stamped "15 JWG 1973" | 892.066 |
| WL = 882 ft | | | | |
| 1 | 41 | 3.79 | Johnstown, 3.8 mi SW. of Bethphage Lutheran Church; 5.5 mi NE. of Fallston; 210 ft W. of, and 10 ft higher than crossroads; at E. entrance of southernmost school building of North Brook School; in S. end of concrete porch 3.7 ft higher than ground; standard tablet stamped "16 JWG 1973" GOOD 6-26-89 | 1013.629 |
| 1 | 42 | 4.26 | U.E., centerline of Y-rd. | 1003.69 |
| 1 | 43 | 4.85 | U.E., centerline of T-rd. S. | 1004.42 |
| 1 | 44 | 5.29 | Fallston, 4.0 mi NE. of; 300 ft SE. of, and 11 ft higher than State Highway 182 at Bethlehem Methodist Church South; 1 ft E. of W. edge of top concrete step, 2 ft above ground; standard tablet stamped "17 JWG 1973" | 996.12 995.693 |

SEE NCGS DATA MARK RESET PRIOR TO 1989

JWG
8-31-90

LINE 11 (Cont'd.)

| | | | | NGVD 29 Elevations | <u>Feet</u> |
|---|----|------|--|-----------------------|-------------|
| 1 | 45 | 5.91 | U.E., centerline of T-rd. S. | | 965.73 |
| 1 | 46 | 6.51 | Fallston, 2.8 mi NE. of; 20 ft SW. of center- line of State Highway 182; level with hwy.; in SW. corner of concrete culvert, 0.8 ft S. of SW. corner; standard tablet stamped "18 JWG 1973" GOOD 12/88 | | 858.395 |
| 1 | 47 | 6.85 | U.E., centerline of rd. at drive S. (1-91A) | | 929.33 |
| 1 | 48 | 7.16 | U.E., centerline of crossroad | | 958.56 |
| 1 | 49 | 7.57 | Fallston, 1.7 mi NE. of; 12 ft N. of, and 0.8 ft higher than centerline of State Highway 182; in NW. corner of concrete bridge; 1 ft E. of W. edge; standard tablet stamped "19 JWG 1973" GOOD 12/88 | | 864.094 |
| 1 | 50 | 8.50 | U.E., centerline of T-rd. S. (County Road 1900) | | 1020.63 |

UPPER FRENCH BROAD BENCH MARKS

NGVD 29
Elevations

Tennessee Valley Authority

Fourth Order

The UFB bench marks are filed with the TVA control booklets. The designations range from UFB-1 through UFB-315 and are listed in this order.

This cover sheet is placed with USGS Quads to inform that additional BM's are available in the listed quads.

| <u>USGS</u> | <u>TVA</u> |
|-------------|------------|
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| 194 | 200 |
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