

THIRD-ORDER LEVELING  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

156  
35-081-13  
HICKORY QUADRANGLE  
156 NORTH CAROLINA  
N3530-W8115/15  
DIAGRAM NI 17-2  
CHARLOTTE

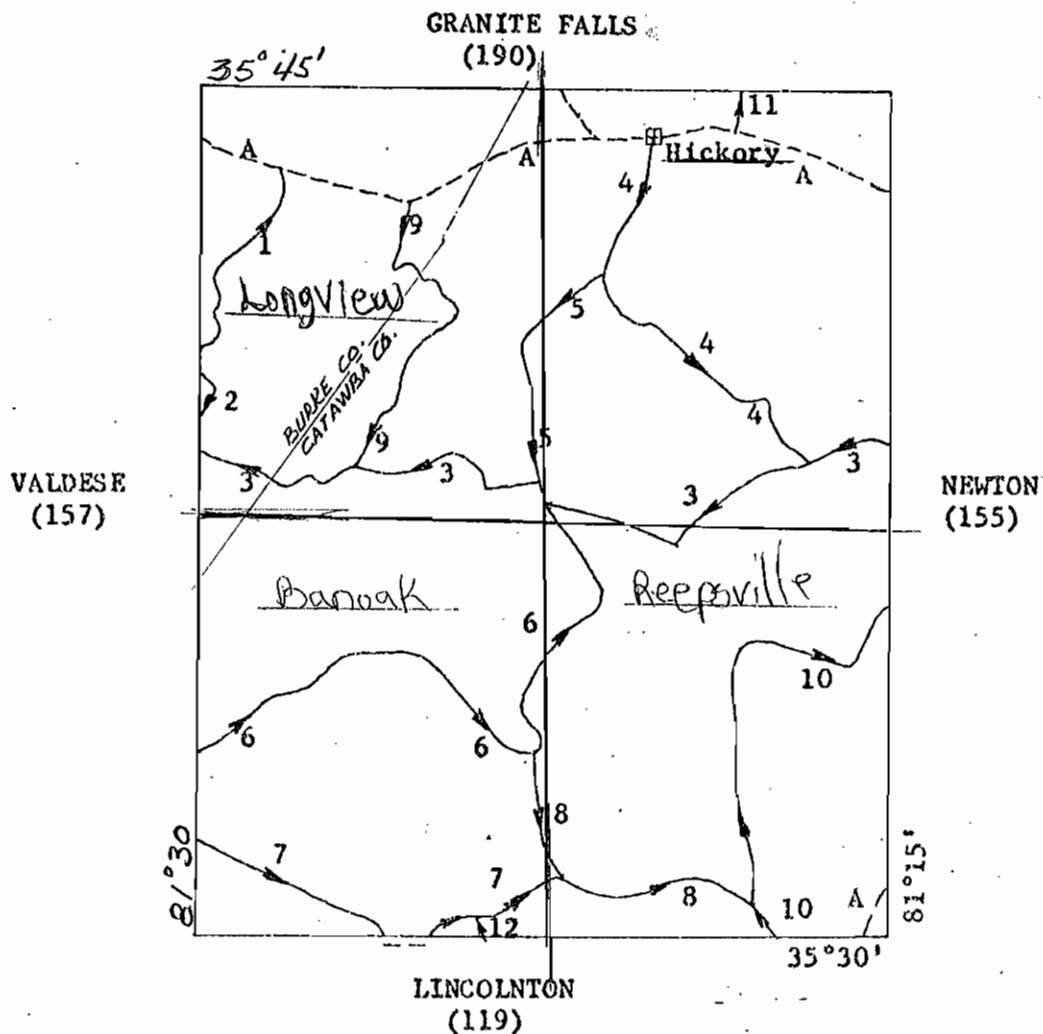
Burke, Catawba and  
Lincoln Counties

Final adjustment of 1975

Edition of 4/19/76

PR: WSM/kp

NGVD 29  
Elevations



NGS (UC&GS) VERTICAL CONTROL DATA

A. Quadrangle 350811

INDEX OF PERMANENT MARKS

<u>MARK (USGS)</u>	<u>PAGE NO.</u>	<u>MARK (USGS)</u>	<u>PAGE NO.</u>
901	8	46 RHP 1951 794	8
907	8	47 RHP 1951 832	8,9
TOLUCA 1948 1092	7	48 RHP 1951 1263	9
TT 1 GBG 1948	4	49 RHP 1951 975	4,9
12 WSM 1950 997	3	50 RHP 1951 1105	4
13 WSM 1950 1129	3	52 RHP 1951 912	9
14 WSM 1950 1283	4	53 RHP 1951 RESET 1956	9
28 RHP 1951 972	3	54 RHP 1951 RESET 1956	9
29 RHP 1951 959	3,5	55 RHP 1951 929	9
30 RHP 1951 997	4,3		
31 RHP 1951 RESET 1957	5,5	<u>NGS</u>	
32 RHP 1951 1011	5	RV 621 S. Ry	8
33 RHP 1951 900	5	CATLIN 1933	6
34 RHP 1951 RESET 1976	5	CATLIN NO 1 1933	6
35 RHP 1951 1174	6	CHECK 18 1933 1137.832	9
36 RHP 1951 1030	6	HICKORY 1933	4
37 RHP 1951 1190	6	H 131 1935	3
38 RHP 1951 1166	7,8	BROOKFORD 1948	5
39 RHP 1951 1182	7	BROOKFORD NO 2 1948	5
40 RHP 1951 891	7	CORINTH 1948	6
41 RHP 1951 1106	7	CORINTH NO 1 1948	6
42 RHP 1951 1032	7	PROPST 1948	4
43 RHP 1951 1002	7,9	PROPST 1948 (azi. mk.)	4,6
44 RHP 1951 1000	8,8	PROPST NO 1 1948	4
45 RHP 1951 1064	8		

NGVD 29  
Elevations

1950

NGVD 29  
ElevationsFeetLINE 1.

By W. S. Monk, 1950; Book AV 138

Icard, 4.4 mi SW. of; at steel girder bridge over Upper South Fork; in E. end of SE. concrete abutment; standard tablet stamped "12 WSM 1950 997" (Not found, 1970)

996.676

Reference mark; 15 ft W. of tablet; on concrete abutment; chiseled square

999.38

Icard, 2.1 mi SW. of; 0.2 mi W. of small wooden bridge over stream; 40 ft N. and 80 ft W. of junction of Icard Road and dim rd. NW.; 4 ft E. of power pole; in concrete post; standard tablet stamped "13 WSM 1950 1129" (Not found, 1970)

1128.455

Reference mark; 4 ft W. of tablet; in face on S. side of power pole; rail spike

1128.76

U.E., Icard, 10 ft N. and 15 ft W. of RR. crossing opposite sta.; on S. end of concrete base of warning signal; chiseled square

1173.30

"H 131 1935" (NGS) (Not found, 1970)

1163.908

LINE 2.

By W. S. Monk 1950; Book AV 138

U.E., Beulah Baptist Church, 0.3 mi SW. of, near crest; 15 ft E. of rd. opposite residence on E. side of rd.; on S. end of concrete headwall of culvert; chiseled square

1107.13

LINE 3.

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

Newton, 2.2 mi W. of courthouse along State Highway 10; 1.2 mi E. of Startown, at Y-rd. fork; 36 ft W. of State Highway 10; 21 ft NW. of graveled rd. SW.; 2 ft NE. of power pole; in concrete post; standard tablet stamped "28 RHP 1951 972" (Not found, 1970)

971.982

Newton, 4.2 mi W. of; 3.5 mi E. of Blackburn School, at Y-rd. fork; 26 ft N. of State Highway 10; 30 ft SW. of sand-clay rd. NW.; 5 ft SE. of power pole; in concrete post; standard tablet stamped "29 RHP 1951 959"

959.256

Newton, 7.7 mi W. of; 2.7 mi E. of Propst Crossroads; about 150 ft NE. of N. corner of Blackburn School; 29 ft SW. of State Highway 10; 3 ft NE. of telephone pole; 1.5 ft NW. of concrete wall; in concrete post; standard tablet stamped "30 RHP 1951 997"

997.026

LINE 3 (Cont'd)Feet

Propst Crossroads, 0.2 mi SW. of; 250 ft N. of State Highway 10; 101 ft NW. of NW. corner of frame house; in concrete post; NGS standard triangulation station disk stamped "PROPST 1948"	1077.536
Reference mark No. 1; 98 ft NE. of disk; 80 ft N. of NE. corner of house; NGS standard reference mark disk stamped "PROPST NO 1 1948"	1075.406
Azimuth mark; 0.3 mi N. of station; 84 ft S. of SE. corner of frame house; 34 ft NE. of center of State Highway 127; NGS standard azimuth mark disk stamped "PROPST 1948"	1038.839
Propst Crossroads, 2.8 mi W. of; 27 ft NE. of graveled rd.; 50 ft SE. of drive; in concrete post; standard tablet stamped "50 RHP 1951 1105" (Not found, 1970)	1104.912
Hildebran, about 6.0 mi S. of; 4.9 mi W. of Propst Crossroads; 174 ft N. of N. end of bridge over Camp Creek; 17 ft W. of intersection of paved rd. and graveled rd. E.; 2.5 ft S. of signpost; in concrete post; standard tablet stamped "49 RHP 1951 975" (Not found, 1970)	974.496
Reference mark; 174 ft S. of tablet; on N. end of W. wheelguard of wooden bridge over Camp Creek; copper nail and washer	966.72
George Hildebran School, 0.85 mi NE. of, thence 1.3 mi ESE. along rds.; at T-rd. S. to Mulls Chapel; 19.5 ft SW. of centerline of main rd., on projected centerline of rd. SW.; 2.08 ft SW. of road direction sign; 9.32 ft NW. of mailbox; in concrete post projecting 7 in.; standard tablet stamped "TT 1 GBG 1948" (Not found, 1970)	1219.097
Icard Railroad Station, 5.9 mi SW. of, thence 1.0 mi SE., thence 1.4 mi S. along rds. to George Hildebran School; 150 ft S. and 40 ft E. of crossroads; opposite brick residence on W. side of rd.; in concrete post; standard tablet stamped "14 WSM 1950 1283" (Reported destroyed, 1970)	1282.397
Reference mark; 80 ft S. of tablet; in root on W. side of 10-in. oak tree; copper nail and washer	1283.82

LINE 4.

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

"HICKORY 1933" (NGS) 1168.147

LINE 4 (Cont'd)Feet

Hickory, 1.2 mi S. of post office; at intersection of U. S. Highways 64, 70, and 321, and State Highway 127; 52.6 ft NE. of Highways 64, 70, and 321, and 38 ft E. of Highway 127; in grass island; 1.9 ft NE. of guy pole; in concrete post; standard tablet stamped "31 RHP 1951 RESET 1957"	1097.740
Conover, 5.0 mi W. of; 2.0 mi SE. of Hickory; 55 ft NE. of center of U. S. Highway 64 and 70; 37 ft W. of center of paved rd.; in concrete post projecting 6 in.; NGS standard triangulation station disk stamped "BROOKFORD 1948" (Not found, 1970)	1091.966
Reference mark No. 2; 86.77 ft NW. of station; 75 ft NE. of the center of highway; in concrete post projecting 3 in.; NGS standard reference mark disk stamped "BROOKFORD NO 2 1948" (Not found, 1970)	1091.750
Brookford Triangulation Station, 1.6 mi S. of; 4.2 mi W. and 3.7 mi N. of Newton; 78 ft SW. of SW. corner of Lutz Grocery and Service Station; 20 ft E. of paved rd.; 3 ft SW. of telephone pole; in concrete post; standard tablet stamped "32 RHP 1951 1011"	1011.411
Reference mark; 87 ft N. of tablet; on NW. corner of concrete base of gasoline pumps; chiseled square	1009.60
Newton, 4.2 mi W. of, thence 1.8 mi N., at crossroads; 50 ft N. of graveled rd.; 40 ft E. of paved rd.; 3 ft NW. of telephone pole; 2 ft E. of fence, in concrete post; standard tablet stamped "33 RHP 1951 900"	900.066
"29 RHP 1951 959" (Described in line 3)	959.256

LINE 5.

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

"31 RHP 1951 RESET 1957" (Described in line 4)	1097.740
Hickory, 3.5 mi S. of post office; about 128 ft N. of NW. corner of Mountain View School on projection of school; 85 ft SE. of State Highway 127; in concrete post; standard tablet stamped "34 RHP 1951 RESET 1976"	1082.027

NGVD 29  
ElevationsLINE 5 (Cont'd)Feet

Hickory, 4.2 mi S. of post office, 3.7 mi N. of Propst Crossroads, at Y-rd. fork; 30 ft NW. of State Highway 127; 23 ft S. of graveled rd. W., on 9 ft bank; in concrete post; standard tablet stamped "35 RHP 1951 1174" (Reported destroyed, 1970) 1173.652

Hickory, 6.7 mi S. of post office; 2.4 mi N. of Propst Crossroads, at T-rd. E.; 37 ft E. of State Highway 127; 35 ft N. of graveled rd. E.; 4 ft NE. of power pole, in concrete post; standard tablet stamped "36 RHP 1951 1030" 1029.045

NGS standard azimuth mark disk stamped "PROPST 1948" (Described in line 3) 1038.839

LINE 6.

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

U.E., Laurel Hill, 150 ft N. of S. fork of intersection of State Highways 10 and 18; in SE. corner of corner catch-basin; chiseled square 1247.66

Morganton; 17.0 mi SE. of; 14.2 mi SW. of Hickory; 14.0 mi WNW. of Lincolnton; near Lincoln-Catawba County line; 3.0 mi E. of Burke-Lincoln-Catawba County corner; on property of Mrs. John Young; 37 ft SE. of centerline of rd.; 21.3 ft ESE. of Catawba County sign; in cultivated field; at top of small grade; in concrete post; NGS standard triangulation station disk stamped "CATLIN 1933" 1264.839

Reference mark NO 1; 28 ft SE. of centerline of hwy.; in cultivated field; in concrete post; NGS standard reference mark disk stamped "CATLIN NO 1 1933" *LOST ELEV - - - Reset 1956* ~~1265.271~~

Banoak School, 2.4 mi W. of; 1.7 mi NE. of Catlin triangulation station, at T-rd. fork; 88 ft N. of State Highway 10; 33 ft E. of graveled rd. N.; in concrete post; standard tablet stamped "37 RHP 1951 1190" (Not found, 1970) 1190.105

Newton, about 14.0 mi SW. of, along State Highway 10; 500 ft NE. of Banoak School; 78 ft NE. of NE. corner of brick house; 25 ft W. of center of paved county rd.; 5 ft NE. of low stone retaining wall; in concrete post flush with ground; NGS standard triangulation station disk stamped "CORINTH 1948" 1204.356

Reference mark NO 1; 66.41 ft NE. of station; 23 ft NW. of center of State Highway 10; in concrete post flush with ground; NGS standard reference mark disk stamped "CORINTH NO 1 1948" 1202.421

<u>LINE 6 (Cont'd)</u>	NGVD 29 Elevations	<u>Feet</u>
Banoak School, 3.3 mi E. of; 5.6 mi S. and 0.5 mi W. of Propst Crossroads; 35 ft N. of, and 3.5 ft higher than Y-rd. fork; 9 ft N. of signpost; in concrete post; standard tablet stamped "38 RHP 1951 1166"		1165.534
Propst Crossroads, 4.3 mi S. of; 200 ft S. of Y-rd. fork; 29 ft W. of paved rd.; 25 ft SE. of graveled rd.; in concrete post; standard tablet stamped "39 RHP 1951 1182" (Reported destroyed, 1970)		1182.426
Propst Crossroads, 2.2 mi S. of; about 600 ft N. of bridge over Potts Creek, at Y-rd. fork; 42 ft E. of paved rd.; 40 ft NW. of gravel rd.; in concrete post; standard tablet stamped "40 RHP 1951 891"		891.180
Reference mark; about 600 ft S. of tablet, at bridge over Potts Creek; in S. end of W. wheelguard; top of bolthead		874.90
<u>LINE 7.</u>		
By R. H. Paine, 1951; Book AV 248		
Toluca, 0.45 mi NNE. of, along State Highway 18, at junction of State Highway 27; 34 ft SW. of centerline of State Highway 27 projected; 32 ft NW. of centerline of State Highway 18; 3 ft NW. of guy pole; in concrete post; standard tablet stamped "TOLUCA 1948 1092"		1092.388
Toluca, 2.3 mi E. of junction of State Highways 10, 18, and 27; 1.3 mi W. of Halls Crossroads, at Y-rd. fork; 22 ft SW. of State Highway 27; 27 ft E. of graveled rd. S.; 2.5 ft SE. of signpost; in concrete post; standard tablet stamped "41 RHP 1951 1106" (Reported destroyed, 1970)		1106.502
Halls Crossroads, 1.5 mi E. of; 4.2 mi SW. of Union School; about 130 ft N. 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" (Reported destroyed, 1970)		1032.113
Union School, 2.0 mi W. of; at offset crossroads; 27 ft W. of paved rd.; 36 ft S. of graveled rd. W.; 2 ft E. of NE. corner of farmer's supply store-shed; in concrete post; standard tablet stamped "43 RHP 1951 1002"		1001.644

LINE 7 (Cont'd)Feet

Reepville, 0.9 mi W. of; about 100 ft N. of NW. corner of Union School; 31 ft SW. of paved rd.; 22 ft SE. of graveled rd.; 3 ft SW. of telephone pole; in concrete post; standard tablet stamped "44 RHP 1951 1000" (Reported disturbed, 1970)	999.690
Reference mark; 9 ft N. of tablet; 35 ft S. of crossroads, on rock headwall of culvert; chiseled square	997.24

LINE 8.

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

"38 RHP 1951 1166" (Described in line 6)	1165.534
Banoak School, 3.3 mi E. of, thence 1.7 mi S.; 1.6 mi N. of Union School; at Y-rd. fork; 19 ft E. of graveled rd. S.; 21 ft SW. of graveled rd. to Bethel Church; 4 ft S. of signpost; in concrete post; standard tablet stamped "45 RHP 1951 1064" (Reported destroyed, 1970)	1064.349
"44 RHP 1951 1000" (Described in line 7) (Reported disturbed, 1970)	999.690
Reference mark; 82 ft SW. of tablet; at wooden bridge; in E. end of N. wheelguard; copper nail and washer	798.52
Union School, 1.8 mi E. of, 1.5 mi W. of Daniel's Church; 82 ft NE. of NE. corner of wooden bridge; 44 ft N. of paved rd.; 23 ft W. of graveled rd. N.; 3 ft SW. of power pole; in concrete post; standard tablet stamped "46 RHP 1951 794" (Not found, 1970)	794.277
Lincolnton, 4.7 mi NW. of, along paved rd.; 1.0 mi E. of Daniel's Lutheran Church, at T-rd. W.; 73 ft W. of paved rd.; 21 ft N. of graveled rd.; 7 ft NW. of SE. corner fence post; in concrete post; standard tablet stamped "47 RHP 1951 832"	831.703

LINE 9.

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

"RV 621 S. Ry" (NGS)	1142.294
Water Stage Recorder, 400 ft downstream from highway bridge on county rd. at Old Link Ford; 1.25 mi downstream from Catawba-Burke County line, and 2 mi downstream from village of Henry River; USGS water gaging station reference mark disk stamped "907"	906.445
USGS water gaging station reference mark disk stamped "901"	900.616



NGVD 29  
ElevationsLINE 9 (Cont'd)Feet

Hildebran, about 3.5 mi S. of; 1.9 mi SW. of water gaging station on Henry River at crossroads (graveled rd. SW.); 190 ft N. of, and 1.0 ft higher than intersection; 37 ft NW. of paved rd. NE.; 64 ft E. of paved rd. N.; 16 ft E. of paved rd. N.; 16 ft SW. of 20-in. black-oak tree; in concrete post; standard tablet stamped "48 RHP 1951 1263" 1262.534

"49 RHP 1951 975" (Described in line 3) (Not found, 1970) 974.496

LINE 10.

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

"47 RHP 1951 832" (Described in line 8) 831.703

Lincolnton, 7.5 mi NW. of; 165 ft NNW. of NW. corner of Crowell Memorial Church about 650 ft S. of Lincoln-Catawba County line; 73 ft E. of paved rd.; 25 ft S. of sand-clay rd. E.; 7.5 ft W. of 6-in. elm tree; in concrete post; standard tablet stamped "52 RHP 1951 912" 911.767

Crowell Memorial Church, 1.9 mi N. of; 3.3 mi W. of Cedar Grove Church; 64.5 ft E. of center of paved rd.; 43.2 ft S. of centerline of county rd.; 2.8 ft NE. of power pole; in concrete post; standard tablet stamped "53 RHP 1951 RESET 1956" 905.295

Cedar Grove Church, 1.4 mi W. of; at T-rd. fork; 37.7 ft N. of centerline of B.S.T. Rd.; 23 ft W. of drive N.; 3.4 ft N. of power pole; in concrete post; standard tablet stamped "54 RHP 1951 RESET 1956" 883.074

Maiden, 3.4 mi W. of; 0.8 mi N. of Cedar Grove Baptist Church, at crossroads; 51 ft E. of paved rd.; 28 ft N. of gravelled rd.; 3 ft SE. of guy pole; in concrete post; standard tablet stamped "55 RHP 1951 929" (Reported destroyed, 1970) 928.486

LINE 11.

By A. T. Adams, 1951; Book AV 246

"CHECK 18 1933 1137.832" (NGS) 1137.704

LINE 12.

By Joe W. Gardner, 1973; Book AV 1680

"43 RHP 1951 1002" (Described in line 7) 1001.644