

3RD-ORDER LEVELING
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

157
35-081-42
VALDESE QUADRANGLE
NORTH CAROLINA
N3530-W8130/15
DIAGRAM NI 17-2
CHARLOTTE

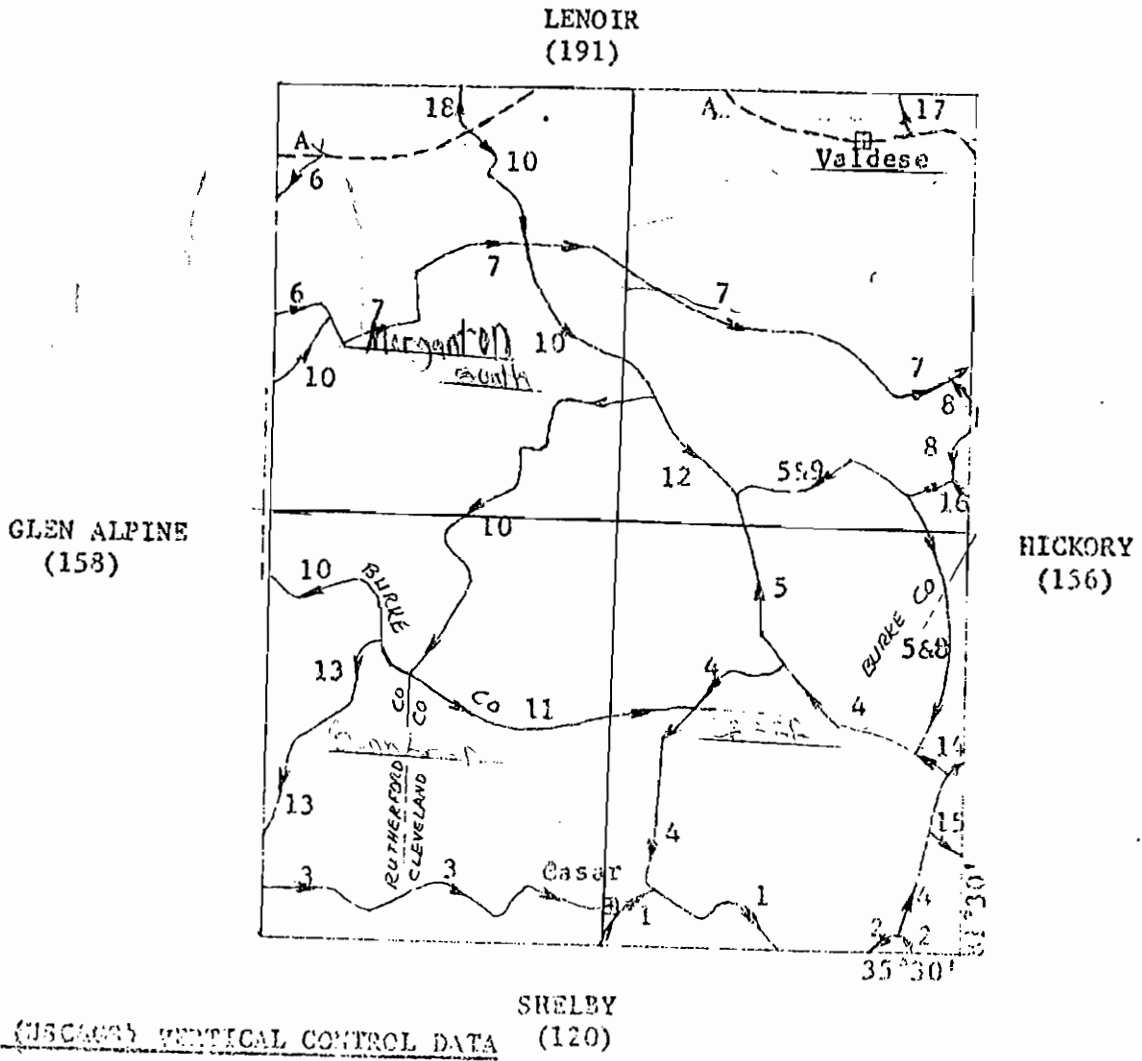
Burke, Catawba, Cleveland, Lincoln,
and Rutherford Counties

Final adjustment of 1974

Edition of 10/28/75

PR: WSM/kp

NGVD 29
Elevations



Quadrangle 350814

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(2352 vert. angle elev. of 2777.8 ft @ Walker Tap Church, SW of Kaylar Knw
information from USGS for Van Luttich 7/2/89

ISOLATED BENCH MARKS (By W. S. D. Moore and C. A. Clunet, 1899-1900; Books A6201; 7630)	<u>Feet</u>
Hodge, 300 ft E. of former post office; in large boulder on S. side of rd.; standard tablet stamped "1135 ASH" (Reported destroyed, 1949)	1134.353
Casar, 3.5 mi NE. of; 300 ft S. of stream; in foundation stone of Olive Grove Church; at SW. corner; standard tablet stamped "1193 ASH" (Reported destroyed, 1951)	1192.340
Jacob Fork, 1.25 mi N. of; on E. side of rd. opposite small house; in rock ledge; copper bolt stamped "1270 ASH" (Not found, 1951)	1269.380
Morganton, 5.4 mi S. of; opposite walnut tree; in large rock E. of rd. at stream; standard tablet stamped "1204" (Not found, 1951)	1202.960
Morganton, in NW. corner of N. portico of county courthouse; standard tablet stamped "1182 M C"	1180.605
Connelly Springs, about 0.15 mi SE. along Secondary Road 1607 from post office; 148 ft N. of rail of main track of Southern Railway Company railroad; 540 ft east of milepost 68; 29 ft N. of center- line of road; 107 ft W. of SE. corner of most easterly of 6 adjacent buildings; 72.5 ft E. of SW. corner of most westerly of 6 adjacent buildings; 43.5 ft W. of entrance to office of furniture company; about 0.5 ft above level of concrete sidewalk; set vertically in S. face of S. brick wall of Hudson Furniture Company building; standard tablet stamped "1191.700" (Tied by NGS, 1967)	1191.868
<u>LINE 1.</u>	
By R. L. Beitle, 1949; Book AV 90	
Casar, 0.4 mi S. of, along State Highway 10; 50 ft N. and 200 ft E. of crossroads; 57 ft SW. of SW. corner of house; 94 ft W. of centerline of street N. in concrete post projecting 6 in.; standard tablet stamped "RLB 50 1949 1125"	1124.854
Reference mark; 66 ft E. of tablet; 50 ft N. of centerline of hwy.; 28 ft W. of centerline of street N.; on top of concrete hwy. right-of-way post; chiseled circle	1128.44
Casar, 0.5 mi N. of, along State Highway 10, thence 1.5 mi SE. along dirt rd.; 3.4 mi NW. of Pleasant Hill Church; 25 ft S. of centerline of rd.; 25 ft NE. of NE. corner of house at E. edge of yard; in concrete post projecting 6 in.; standard tablet stamped "RLB 51 1949 968"	968.445
Reference mark; 75 ft W. of tablet; 56 ft S. of centerline of rd.; in NE. root of 14-in. lone walnut tree; copper nail and washer	965.85
U.E., Casar, 0.1 mi N. of, along State Highway 10, thence 2.5 mi SE. along dirt rd.; on NW. backwall of bridge over stream; chiseled "L"	986.78

LINE 1 (Cont'd)

Feet

Casar, 0.5 mi N. of, along State Highway 10, thence 3.5 mi E.; 1.4 mi NW. of Pleasant Hill Church; 33 ft S. and 80 ft E. of T-rd. E.; 28 ft S. of centerline of rd. E.; in concrete post; standard tablet stamped "RLB 52 1949 1096"	1096.481
Reference mark; 119 ft W. of tablet; 60 ft N. and 22 ft E. of junction of T-rd. E.; in concrete post; iron rod	1093.67

LINE 2.NGVD 29
Elevations

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

Fallston, 5.7 mi N. of, along State Highway 18, at St. Peters Church; 14.8 ft S. of SE. corner and on prolongation of E. side of church; 48 ft W. of centerline of driveway to church; in concrete post; standard tablet stamped "RLB 58 1949 1082"	1081.849
Reference mark; 42 ft N. of tablet; on N. end of 1st concrete step at entrance to church; chiseled "U"	1082.21
U.E., St. Peters Church, 0.8 mi SW. of; in SE. angle opposite T-rd. forks; on center of large stone; chiseled "U"	1041.50

LINE 3.

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

U.E., Golden Valley School, 1.6 mi SE. of; on SW. side of rd. on sharp curve; about 40 ft W. of drain crossing; on top of ledge outcrop; chiseled "U"	1027.39
Golden Valley School, 1.8 mi E. of; 3.3 mi W. of Moriah School; 18 ft E. and 24 ft N. of jct. of T-rd. N.; 21 ft SE. of SE. corner of bridge over stream; in concrete post projecting 6 in.; standard tablet stamped "RLB 66 1949 1012" (Not found, 1956)	1012.322
Reference mark; 21 ft NW. of tablet; on SE. backwall of bridge over stream; chiseled "U"	1013.85
U.E., Golden Valley School, 2.6 mi E. of; 25 ft N. of T-rd NE.; 35 ft E. of bridge, on large boulder; chiseled "U"	998.72
U.E., Golden Valley School, 3.4 mi E. of; on SE. wingwall of bridge over stream; chiseled "L"	958.44
Golden Valley School, 1.3 mi W. of; 3.8 mi E. of, Moriah School; 21 ft S. of T-rd. N. and on prolongation of its centerline; 11 ft NW. of NW. corner of log house; in concrete post; standard tablet stamped "RLB 67 1949 1067" (Reported destroyed, 1956)	1067.109
Reference mark; 77 ft NW. of tablet; 33 ft N. of centerline of E.-W. rd.; 36 ft W. of centerline of rd. N.; in E. base of 12-in. pine tree; rail spike	1059.01

LINE 3 (Cont'd)Feet

Moriah School, 0.9 mi NE. of; 0.45 mi SW. along State Highway 10, thence 4.3 mi W. along dirt rd. from Casar; 27 ft NE. of centerline of rd. on inside of sharp curve; 40 ft NW. of NW. corner of bridge over stream; 35 ft W. of jct. of streams; 14 ft W. of W. bank of N. fork; in concrete post projecting 6 in.; standard tablet stamped "RLB 68 1949 1028"	1028.123
Reference mark; 110 ft NW. of tablet; 21 ft W. of centerline of rd.; in E. root of 14-in. pine tree; rail spike	1033.63
Casar, 0.45 mi S. of, along State Highway 10, thence 2.5 mi NW. along dirt rd.; 2.7 mi E. from Moriah School; 71 ft S. and 45 ft W. of T-rd. S.; 50 ft W. of centerline of rd. leading S.; in concrete post; standard tablet stamped "RLB 69 1949 1158"	1157.839
Reference mark; 200 ft SE. of tablet; 43 ft W. of centerline of rd.; on NE. corner of concrete retaining wall around small cemetery; chiseled "L"	1153.46
U.E., Casar, 0.4 mi SW. of, along State Highway 10, thence 1.6 mi NW. along dirt rd.; on N. side of rd.; on E. side of lane N. on top of ledge outcrop; chiseled "U"	964.07
"RLB 50 1949 1125" (Described in line 1)	1124.854

LINE 4.

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

"RLB 58 1949 1082" (Described in line 3)	1081.849
U.E., Toluca, 1.5 mi S. of, along State Highway 18; on E. side of rd.; at junction of T-rd. W.; on center of concrete culvert headwall; chiseled "U"	1070.93
Toluca, 0.4 mi NE. of, along State Highway 18; at jct. of State Highway 27; across rd. from brick service station; 34 ft SW. of extended centerline of Highway 27; 32 ft NW. of centerline of Highway 18 and 3 ft NW. of guy pole; in concrete post projecting 4 in.; standard tablet stamped "TOLUCA 1948 1092"	1092.388
Reference mark; 105 ft E. of tablet; 66 ft E. of jct. Routes 27 and 18; on NE. corner of concrete base of Esso sign at Wright Grocery Store; chiseled "L"	1090.76

LINE 4 (Cont'd)Feet

- U.E., Toluca, 1.2 mi N. of, along State Highway 18; on W. side of rd.; in center of L-shaped stone headwall; chiseled "U" 1160.43
- U.E., Toluca, 1.6 mi N. of, along State Highway 18; 150 ft N. of S. fork of jct. of State Highways 10 and 18; on SE. corner of concrete catch-basin; chiseled square 1247.66
- Toluca, 2.5 mi N. of, along State Highway 18, (jct. Highways 18 and 10); 0.9 mi NW. of Laurel Hill; 3.6 mi SE. of Ramsey; ~~463~~ ft NW. of ~~INT~~ ^{INT} 463 ft N. of ~~of jct. of T-rd. leading N.~~ ^{of SR1100}; 595 ft SW. of centerline ~~SR1103~~ ^{SR1103} of T-rd. N.; in concrete post; standard tablet stamped "RLB 70 1949 1329" ^{AT INT OF SR1100 & 1103, 5.3 WSW OF 6" APPLE} 94.8 SW OF 48" OAK 1329.112
- Reference mark; 180 ft SE. of tablet; 30 ft S. of centerline of State Highway 18; on NW. corner of most eastern of two gasoline pumps; on concrete base; chiseled "L" 1331.96
- U.E., Ramsey, 2.9 mi SE. of, along State Highway 18; on S. side of rd.; 60 ft W. of T-rd. N.; on top of stone headwall; chiseled "U" 1273.84
- Ramsey, 2.3 mi SE. of; 2.2 mi NW. along State Highway 18 from Laurel Hill; 3 ft W. and 62 ft N. of jct. of T-rd. N.; 47 ft W. of centerline of rd.; 33 ft N. of centerline of driveway to Zion Hill Church; in concrete post; standard tablet stamped "RLB 71 1949 1267" (Not found, 1956) 1266.663
- Reference mark; 24 ft NE. of tablet; 36 ft W. of centerline of T-rd. N.; in NE. root of twin-trunked 21-in. oak tree; copper nail and washer 1267.92
- U.E., Ramsey, 1.1 mi SE. of, along State Highway 18; on NE. wing-wall of bridge over stream; chiseled "U" 1163.34
- U.E., Ramsey, 0.5 mi SE. of, along State Highway 18; on SW. side of rd. on SE. end of concrete headwall; chiseled "L" 1206.38
- Ramsey, 39 ft N. and 55 ft W. of crossroads; 29 ft E. of centerline of T-rd. N.; in concrete post; standard tablet stamped "RLB 72 1949 1297" 1297.286
- Reference mark; 19 ft W. of tablet; 34 ft N. of centerline of State Highway 18; 12 ft E. of centerline of rd. N.; in S. root of 14-in. twin-trunked oak tree; rail spike 1297.81

NGVD 29
ElevationsLINE 4 (Cont'd)Feet

- Ramsey, 2.0 mi W. of, along dirt rd.; 6.1 mi N. of Casar at Mt. Gilead Church; 35 ft E. of jct. of National Forest Rd. and rd. S. to Casar; 28 ft SE. of centerline of rd.; in concrete post projecting 6 in.; standard tablet stamped "RLB 73 1949 1299" 1298.623
- Reference mark; 115 ft N. of tablet; 32 ft E. of SE. corner of church; in SW. corner of Chapman head stone 1300.51
- Casar, 3.7 mi N. of; 2.4 mi SW. of Mt. Gilead Church; 30 ft N. of centerline of rd.; 54 ft N. of stream; 7 ft W. of path leading N.; in concrete post projecting 2 in.; standard tablet stamped "RLB 74 1949 1146" (Not found, 1956) 1145.99
- Reference mark; 9 ft W. of tablet; 32 ft N. of centerline of rd.; In W. base of 24-in. tulip tree; rail spike 1146.90
- U.E., Casar, 2.6 mi N. of, along rd. to Ramsey; NW. backwall of bridge over stream; chiseled "U" 1078.29
- Casar, 1.6 mi N. of, along Highway 10; at Pisgah Church; 12.0 ft E. of SE. corner of church; 5 ft SE. of SE. edge of circular pillar at entrance to church; in concrete post projecting 3 in.; standard tablet stamped "RLB 75 1949 1157" 1157.169
- Reference mark; 16 ft N. of tablet; on N. end of first concrete step at entrance to church; chiseled "U" 1157.36

LINE 5. (Not of third-order accuracy)

By J. D. Nickolaus, 1949; Book AV 90

- "RLB 72 1949 1297" (Described in line 4) 1297.286
- U.E., Ramsey, 0.7 mi NW. of, along State Highway 18; At SE. end of concrete bridge over Jacob's Fork River; on SE. wingwall; chiseled "L" 1126.86
- Ramsey, 2.0 mi NW. of, along State Highway 18; 38 ft N. and 30 ft E. of jct. of rd. and T-rd. E.; 13 ft NW. of stop sign; in concrete post projecting 3-in.; standard tablet not stamped 1292.037
- Reference mark; 50 ft N. of tablet; on E. side of rd.; in W. base of 5-in. elm tree; iron spike 1293.62

NGVD 29
ElevationsLINE 5 (Cont'd)Feet

- Ramsey, 4.2 mi NW. of, along State Highway 18, thence 4.3 mi E. along dirt rd.; 6.7 mi N. along State Highway 18 and 450 from Laurel Hill; at Reynolds Grocery Store; 93 ft W. of hwy. jct.; 58 ft N. of NW. corner of store; 29 ft N. of telephone pole #357; in concrete post; standard tablet not stamped 1277.605
- Reference mark No. 1; in root of large oak tree on W. side of rd.; copper nail and washer 1283.52
- U.E., Laurel Hill, 5.1 mi N. of, along State Highways 18 and 450; on W. side of hwy.; at jct. of Y-rd. E.; on N. end of L-shaped concrete culvert headwall; chiseled "L" 1201.52
- Laurel Hill, 4.7 mi N. of, along State Highway 18 and 450; 53 ft N. of Catawba County line mark; 64 ft E. of centerline of State Highway 450; in concrete post; standard tablet not stamped 1165.392
- U.E., Laurel Hill, 4.1 mi N. of, along State Highways 18 and 450; on NW. wingwall of concrete bridge over stream; chiseled "L" 1037.98
- Laurel Hill, 3.2 mi N. of, along State Highways 18 and 450; 21 ft S. and 95 ft W. of Y-rd. fork SW.; in concrete post projecting 5-in.; standard tablet not stamped 1212.918
- "RLB 70 1949 1329" (Described in line 4) 1329.112

LINE 6.

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

- "R V 629" (S. Ry.) (NGS) 1062.567
- U.E., Morganton, 2.2 mi SW. of, along U. S. Highways 64 and 70, thence 0.6 mi S. along dirt rd.; at NE. end of concrete bridge over small stream; on concrete abutment; chiseled square 1028.02

LINE 7.

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

- Glen Alpine, 4.6 mi SE. of; 1.1 mi SE. of Hopewell Church; ^{4.9}~~7.0 mi SW.~~ of Mull School; 76 ft W. of jct. of Y-rd. forks; 16 ft SW. of centerline of rd. leading N; 7 ft NE. of centerline of drive to house; in small grassy triangle; in concrete post; standard tablet stamped "3 WSM 1950 1242" 1241.416

LINE 7 (Cont'd)Feet

Reference mark; 100 ft W. of tablet; in root on E. side of 7-in. oak tree; copper nail and washer	1240.27
Mull School, 4.6 mi SW. along Salem Church Rd.; 2.1 mi SW. of Salem M.E. Church; 210 ft E. of centerline of wooden bridge over stream; 35 ft S. of centerline of rd.; 10 ft NE. of plank bridge; over small stream; in concrete post projecting 4 in.; standard tablet stamped "4 WSM 1950 1128"	1128.343
Reference mark; 200 ft NE. of tablet; 25 ft N. of rd.; on bank 3.0 ft above rd.; in root on S. side of 8-in. pine tree; copper nail and washer	1140.58
Mull School, 2.3 mi W. of; at Salem Methodist Church; 47 ft W. of junction of rd. E.; at S. edge of cemetery; 4 ft SW. of S. end of Boyles Monument; in concrete post; standard tablet stamped "5 WSM 1950 1234 RESET"	1233.648
Reference mark; 150 ft S. of tablet; in root on E. side of 12-in. oak tree; copper nail and washer	1237.22
U.E., Mull School, 0.7 mi SW. of, along Salem Church Rd.; 50 ft N. and 90 ft E. of crossroads; on SW. end of concrete step at small bridge shed; chiseled square	1176.94
Morganton, 3.3 mi SE. of, along State Highway 18, opposite Mull School; 93 ft SE. of S. fork of offset crossroads; 35 ft S. of fork leading SE.; 59 ft E. of centerline of State Highway 18 leading S.; in concrete post; standard tablet stamped "6 WSM 1950 1229"	1229.056
Reference mark; 8 ft S. of tablet; in root on N. side of 5-in. oak tree; copper nail and washer	1229.26
Mull School, 2.3 mi SE. of, along dirt rd.; 5.3 mi NW. of Smarts Grove Church; 507 ft SE. of wooden bridge over E. Prong Creek; 34 ft NE. of centerline of rd.; opposite jct. of lane W.; on bank; in concrete post; standard tablet stamped "7 WSM 1950 1228"	1228.149
Reference mark; 140 ft S. of tablet; in root on N. side of 12-in. oak tree; at spring; copper nail and washer	1223.90
Mull School, 4.3 mi SE. of, along dirt rd.; 3.4 mi NW. of Smarts Grove Church; 62 ft NW. of centerline of wooden bridge over stream; 28 ft N. of jct. of dim woods rd. N.; 6 ft W. of centerline of woods rd.; in concrete post projecting 6 in.; standard tablet stamped "8 WSM 1950 1156" (Not found, 1956)	1155.414

LINE 7 (Cont'd)NGVD 29
ElevationsFeet

- Reference mark; 18 ft E. of tablet; in root on W. side of 6-in. oak tree; copper nail and washer 1154.12
- U.E., Smarts Grove Church, 2.7 mi NW. of, along dirt rd. (jct. of rd. and dim woods rd. N.); 25 ft N. of rd.; in E. track of woods rd. N.; on rock outcrop; chiseled square 1118.99
- Smarts Grove Church, 1.5 mi NW. of; 134 ft SW. of Z. C. Pellers Store; 47 ft S. of centerline of rd.; 2 ft E. of powerline pole; in concrete post; standard tablet stamped "RESET 1952" (Replaces "9 WSM 1950 1067" (Unchecked elevation))
NAD 29 1063.495
NGD 88 1062.39
934
- Reference mark; N. of tablet; on SW. corner of concrete base of gas pump; chiseled square 1065.63
- Smarts Grove Church, 0.6 mi SE. of; 25 ft E. of centerline of rd.; 9 ft S. of lone gum tree; 28 ft W. of power pole; on opposite side of rd. from house; on high bank; in concrete post projecting 4 in.; standard tablet stamped "10 WSM 1950 1109" 1108.877
- Reference mark; 9 ft S. of tablet; in face on E. side of 12-in. gum tree; rail spike 1108.79
- Smarts Grove Church, 1.1 mi SE., thence 1.3 mi NE. along roads to Icard; 5.9 mi SW. of Icard RR. Station; 31 ft SW. and 80 ft E. of crossroads; 3 ft S. of R.E.A. pole No. 3 KEA 20; in concrete post; standard tablet stamped "11 WSM 1950 1141" 1141.129

LINE 8.

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

- "11 WSM 1950 1141" (Described in line 7) 1141.129

Jogs into Hickory quadrangle

- Icard, 5.9 mi SW. of RR. station, thence 1.0 mi SE., thence 1.4 mi S. along roads 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" 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 8 (Cont'd)NGVD 20
ElevationsFeet

George Hildebran School, 0.4 mi SW. of, at jog crossroads; 5 ft S. and 85 ft E. of jct. of rd. S. of Laurel Hill and rd. NE. to George Hildebran School; 60 ft N. of NW. corner of Reynold's Service Station; in concrete post; standard tablet stamped "15 WSM 1950 1278" 88 GOOD	1278.362
Reference mark; 20 ft S. of tablet; in face on SE. side of power pole; rail spike	1278.30
U.E., George Hildebran School, 0.4 mi SW. to crossroads, thence 1.2 mi S. along State Highway 450; 45 ft N. and 20 ft E. of crossroads, State Highway 450 and rd. W. to State Highway 18; on SE. end of concrete headwall of culvert; chiseled square	1197.68
U.E., George Hildebran School, 0.4 mi SW. to crossroads, thence 1.5 mi S. along State Highway 450; 40 ft S. and 15 ft W. of jct. of Highway and rd. E.; on N. end of concrete headwall of culvert; chiseled square	1201.41
George Hildebran School, 0.4 mi SW., thence 1.9 mi S. of, along State Highway 450; 240 ft S. of residence on W. side of rd.; 50 ft N. of Burke-Catawba County line; 65 ft E. of rd.; in concrete post; standard tablet stamped "16 WSM 1950 1165" (Reported destroyed, 1956)	1165.252
Reference mark; 90 ft W. of tablet; in face on E. side of 5-in. hickory tree; rail spike	1160.90
U.E., George Hildebran School, 0.4 mi SW. to crossroads, thence 2.5 mi S. along State Highway 450; 170 ft S. and 15 ft E. of jct. of highway and rd. NE. on NE. concrete abutment of bridge; chiseled square	1037.87
<u>[Jogs into Hickory quadrangle]</u>	
George Hildebran School, 0.4 mi S. of Beulah Baptist Church; 0.9 mi NW., thence 2.1 mi N. of Laurel Hill; 30 ft S. and 115 ft W. of jct. of State Hwy. 450 and rd. W. to State Highway 18; in concrete post; standard tablet stamped "17 WSM 1950 1213" (Reported destroyed, 1962)	1212.792
Reference mark; 85 ft N. of tablet; in face on E. side of power pole; rail spike	1210.48
U.E., Laurel Hill, 0.9 mi NW. of, along State Hwy. 18, thence 1.4 mi N. along State Hwy. 450; 30 ft N. and 20 ft E. junction hwy. and rd. E.; on S. end of concrete headwall of culvert; chiseled square	1210.45

LINE 8 (Cont'd)Feet

"RLB 70 1949 1329" (Described in line 4) (Also in line 5) 1329.112

NGVD 29
Elevations

LINE 9.

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

"15 WSM 1950 1278" (Described in line 8) 1278.362

George Hildebran School, 2.9 mi W. of; 2.0 mi E. of Pleasant Grove Baptist Church; 30 ft N. and 80 ft W. of jct. of rd. NW. to State Highway 18 and rd. E.-W.; in concrete post; standard tablet stamped "18 WSM 1950 1295" 1294.921

Reference mark; 840 ft W. of tablet; 30 ft N. and 10 ft W. of jct. T-rd. SE.; in face on S. side of 6-in. pine tree; rail spike 1302.60

George Hildebran School, 4.8 mi W. of; 0.1 mi SE. of Pleasant Grove Church; 40 ft S. and 125 ft W. of junction of State Highway 18 and rd. E. to George Hildebran School; 4 ft N. of power pole; in concrete post; standard tablet stamped "19 WSM 1950 1374" 1374.082

Reference mark; 420 ft E. of tablet; 20 ft N. of hwy.; on E. end of concrete headwall of culvert; chiseled square 1347.01

U.E., Pleasant Grove Church, 0.9 mi SE. of, along State Highway 18; 90 ft S. and 15 ft E. and drive NW. to residence; on S. end of concrete headwall of culvert over stream; chiseled square 1368.64

U.E., Pleasant Grove Church, 1.1 mi SE. of, along State Highway 18; 40 ft N. and 15 ft E. of jct. of highway and rd. W.; near crest; on S. end of stone headwall of culvert; chiseled square 1433.54

U.E., Pleasant Grove Church, 1.4 mi SE. of, along State Highway 18; 0.3 mi S. of jct. of rd. W. and highway; 15 ft W. of hwy.; on SW. end of stone headwall of culvert; chiseled square 1391.87

Pleasant Grove Baptist Church, 2.4 mi SE. of, along State Highway 18; 1.9 mi N. of Ramsey; 20 ft N. and 35 ft E. of jct. of hwy. and rd. E.; in concrete post; standard tablet stamped "20 WSM 1950 1292" 1292.153

Reference mark; 200 ft N. of tablet; 15 ft W. of rd.; on N. end of stone headwall of culvert; chiseled square 1281.65

U.E., Ramsey, 1.4 mi NW. of, along State Highway 18; 240 ft S. and 15 ft W. of jct. of highway and rd. SW. to Mt. Gilead Church; on S. end of stone headwall of culvert; chiseled square 1275.71

LINE 9 (Cont'd)Feet

- U.E., Ramsey, 0.9 mi NW. of, along State Highway 18; 0.2 mi N. of Jacob Fork River; 30 ft N. and 15 ft W. of jct. drive SE.; on N. end of stone headwall of culvert; chiseled square 1191.31
- U.E., Ramsey, 0.7 mi NW. of, along State Highway 18; at SE. end of concrete bridge over Jacob Fork River; on concrete abutment; chiseled square 1126.89
- "RLB 72 1949 1297" (Described in line 4) (Also in line 5) 1297.286

LINE 10.

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

NGVD 29
Elevations

- "V 131 RESET 1951" (NGS) 1112.183
- Morganton Depot, 1.4 mi SE. of, along State Highway 18; 210 ft N. of junction of rd. leading to main hospital center; 20 ft S. of 36-in. oak tree; in concrete post; standard tablet stamped "21 WSM 1950 1192" 1191.832
- Reference mark; 20 ft N. of tablet; in face on W. side of 36-in. oak tree; rail spike 1191.50
- U.E., Morganton Depot, 2.0 mi SE. of, along State Highway 18; 0.1 mi W. of junction of State Highway 18 and rd SE.; 15 ft S. of hwy.; on W. end of concrete headwall of culvert; chiseled square 1096.41
- "6 WSM 1950 1229" (Described in line 7) 1229.056
- Morganton, 5.4 mi SE. of, along State Highway 18; 5.0 mi NW. along State Highway 18 from Pleasant Grove Church; 57 ft SW. of jct. of T-rd. leading S. to Enola; 25 ft S. of W. end of 6 ft iron pipe culvert; 22 ft W. of centerline of rd. leading S.; in concrete post; standard tablet stamped "22 WSM 1950 1323" 1323.316
- Reference mark; 520 ft S. of tablet; 15 ft W. of rd.; on center of concrete headwall of culvert; chiseled square 1311.68
- Enola, 2.7 mi E. of; 2.2 mi NW. of Pleasant Grove Church, along State Highway 18; 131 ft SE. of NW. fork of offset crossroads; 24 ft NE. of centerline of hwy.; 34 ft N. of centerline of bridge over stream; in concrete post projecting 6 in.; standard tablet stamped "23 WSM 1950 1157" 1156.626

88 May Be Lost

NGVD 29
ElevationsLINE 10 (Cont'd)Feet

Reference mark; 150 ft NE. of tablet; on concrete abutment of small bridge over Henry Fork River; chiseled square	1160.43
U.E., Enola, 1.1 mi E. of; 50 ft W. of SE. end of steel girder bridge over Henry Fork River; on concrete pier; chiseled square	1214.66
Enola, 0.2 mi S. of; 31 ft N. and 67 ft E. of crossroads; 31 ft N. of centerline of rd. E.; 26 ft SE. of centerline of woods rd. NE.; in concrete post projecting 4 in.; standard tablet stamped "24 WSM 1950 1359"	1359.413
Reference mark; 55 ft W. of tablet; in face N. side of telephone pole; rail spike	1355.16
Enola, 2.3 mi S. of, along Rich Mt. Rd.; 4.3 mi N. of Horse-Ridge Fire Tower; 355 ft S. of Y-rd. forks; 20 ft E. of centerline of rd.; 10 ft E. of barway to pasture; in concrete post projecting 6 in.; standard tablet stamped "25 WSM 1950 1297"	1297.399
Reference mark; 600 ft S. of tablet; 30 ft S. and 20 ft E. of centerline of small bridge; in root S. side of 5 in. sycamore tree; copper nail and washer	1290.00
Enola, 3.8 mi S. of, along Rich Mt. Rd.; 2.8 mi N. of Horse Ridge Fire Tower; 24 ft E. of centerline of rd.; 36 ft N. of centerline of school bus turning drive and 4 ft W. of waiting shed; 44 ft W. of centerline of stream; in concrete post; standard tablet stamped "26 WSM 1950 1481"	1480.630
Reference mark; 10 ft SE. of tablet; in root S. side of 7-in. poplar tree; copper nail and washer	1479.81
Horse Ridge Fire Tower, at jct. of rd. leading to tower and about 500 ft S. of tower; 35 ft N. of centerline of National Forest Rd.; 17 ft W. of centerline of rd. to tower; and 80 ft NW. of their jct.; 6 ft N. of telephone pole; in concrete post; standard tablet stamped "27 WSM 1950 2574"	2574.340
Reference mark; 9 ft W. of tablet; in root N. side of 4-in. oak tree; copper nail and washer	2573.45
Horse Ridge Fire Tower, 2.5 mi S. of; in center of small grassy triangle formed by T-rd. forks; 16 ft SE. of centerline of rd. leading NE.-SW.; in concrete post projecting 6 in.; standard tablet stamped "28 WSM 1950 2808"	2807.604

LINE 10 (Cont'd)Feet

Reference mark; 7 ft S. of tablet; in root N. side of 9-in. twin pine tree; copper nail and washer	2807.09
Horse Ridge Fire Tower, 2.5 mi S., thence 2.1 mi NW. of, along C.C.C. Rd.; 440 ft SE. of intersection of Y-rd. forks; 15 ft W. of centerline of rd.; on curve and on prolongation of tangent from N.; in concrete post projecting 6 in.; standard tablet stamped "29 WSM 1950 2508"	2508.016
Reference mark; 20 ft NW. of tablet; in root N. side of 8-in. oak tree; copper nail and washer.	2505.28
Horse Ridge Fire Tower, 2.5 mi S. of, thence 4.1 mi NW.; 27 ft E. of centerline of rd. at head of drain; in center of double S. curve and on prolongation of rd. from NW.; 0.5 mi SE. of woods rd. W.; 13.5 ft NW. of 14-in. red oak tree; in concrete post projecting 7 in.; standard tablet stamped "30 WSM 1950 2301"	2301.150
Reference mark; 13.5 ft SE. of tablet; in root SW. side of 14-in. red oak tree; copper nail and washer	2300.57
U.E., Horse Ridge Fire Tower, 2.5 mi S. of, thence 4.9 mi NW.; 0.7 mi NW. of jct. of woods rd. W.; 10 ft E. of C.C.C. Rd.; on rock at culvert; chiseled square	2441.04
Horse Ridge Fire Tower, 2.5 mi S. of, thence 6.3 mi NW.; on sharp curve; 26 ft SE. of jct. of woods rd. S.; 9 ft E. of centerline of woods rd.; in concrete post; standard tablet stamped "31 WSM 1950 2752"	2752.406
Reference mark; 20 ft SW. of tablet; in root N. side of 10-in. twin oak tree; copper nail and washer	2749.51

LINE 11.

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

"28 WSM 1950 2808" (Described in line 10)	2807.604
Horse Ridge Fire Tower, 2.5 mi S. of, thence 1.6 mi SE. along National Forest Road; 13 ft W. of centerline of rd.; in saddle, about midway between twin 30-in. white-oak trees; in concrete post projecting 6 in.; standard tablet stamped "37 WSM 1950 2586"	2585.293
Reference mark; 15 ft N. of tablet, in root on E. side of 24-in. oak tree; copper nail and washer	2586.08
Horse Ridge Fire Tower, 2.5 mi S. of, thence 3.3 mi SE. along National Forest Road; 16 ft S. of centerline of rd.; at W. end of saddle; 9 ft E. of 14-in. pine tree; in concrete post standard tablet stamped "38 WSM 1950 2382"	2382.073

VALDESE QUADRANGLE

157 NORTH CAROLINA

35-081-42

16

NGVD 29
ElevationsLINE 11 (Cont'd)Feet

Reference mark; 7 ft W. of tablet; in root on N. side of 9-in. pine tree; copper nail and washer 2382.07

Mt. Gilead Church, 2.0 mi W. of, along National Forest Road; 15 ft S. of centerline of rd. at bench in hill and at car turn-out; 6 ft NW. of 18-in. oak tree; in concrete post; standard tablet stamped "39 WSM 1950 1913" 1912.808

Reference mark; 6 ft SE. of tablet; in root on N. side of 8-in. oak tree; copper nail and washer 1912.30

"RLB 73 1949 1299" (Described in line 4) 1298.623

LINE 12.

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

"23 WSM 1950 1157" (Described in line 10) 1156.626

U.E., Pleasant Grove Church, 2.0 mi NW. of, along State Highway 18; at NE. end of wooden bridge over small stream on concrete abutment; chiseled square 1154.83

U.E., Pleasant Grove Church, 1.1 mi NE. of, along State Highway 18; at small stream crossing; 15 ft W. of highway; on N. end of concrete headwall of culvert; chiseled square 1221.70

U.E., Pleasant Grove Church, 0.4 mi N. of; 20 ft E. of rd.; on N. end of stone headwall of culvert; chiseled square 1341.56

"19 WSM 1950 1374" (Described in line 9) 1374.082

LINE 13.

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

"29 WSM 1950 2508" (Described in line 10) 2508.016

Golden Valley School, 5.1 mi NE. of; 130 ft S. of centerline of wooden bridge over small stream; 30 ft W. of rd.; 15 ft N. and 30 ft W. of junction of woods rd. E.; in rock boulder; standard tablet stamped "40 WSM 1950 1523" 1519.204

Reference mark; 50 ft E. of tablet; in face on W. side of 12-in. poplar tree; rail spike 1522.59

LINE 13 (Cont'd)Feet

Golden Valley School, 3.1 mi N. of, along rds. to Horse Ridge Fire Tower; 130 ft S. and 20 ft E. of junction of C.C.C. rd. and drive W. to residence; 20 ft S. of stream crossing on bank; 2 ft above rd.; in rock outcrop; standard tablet stamped "41 WSM 1950 1284"

1283.976

LINE 14.

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

4 17 0.00 "U.E., chiseled square" (Described in line 4)

1247.66

LINE 15.

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

4 46 0.00 "TOLUCA 1948 1902" (Described in line 4)

1092.388

LINE 16.

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

5 40 8.87 "14 WSM 1950 1283" (Described in line 8)

1282.397

LINE 17.

By A. T. Adams, 1951; Book AV 232

12 2 0.00 "K 131 1935" (NGS)

1195.423

12 4 2.20 Connely Springs, 1.0 mi W. of, along U. S. Highway 70, thence 1.2 mi N. along Lenior rd.; 120 ft N. of junction of rd. E.; 6 ft N. of NW. corner Rutherford College Baptist Church; 12 ft SE. of telephone pole; in concrete post; standard tablet stamped "6 ATA 1951 1249"

1248.793

12 4 2.20 Reference mark; 42 ft SE. of tablet; on SW. corner of steps to Rutherford College Baptist Church; chiseled square

1249.85

LINE 18.

By A. T. Adams, 1951; Book AV 232

9 1 0.00 "V 131 RESET 1951 (NGS) (Also in line 10)

1112.183

9 1 0.00 "T 60 E 1934" (NGS)

1114.755

LINE 18 (Cont'd)

Feet

9 2 1.30 U.E., 70 ft N. of Lenior Street crossing State
Highway 18; on SE. end of concrete base of Shell
gas pumps; chiseled square

1202.23

NGVD 29
Elevations

* NAD 27 * INVERSE PROGRAM FOR STATIONS NOT IN THE DATA BASE

FROM STA => 2-352 1948	TO STA =>
LATITUDE => 35° 38' 22.63000" LONGITUDE => 81° 43' 24.40000"	LATITUDE => LONGITUDE =>
North (Y) => 698900.587 F East (X) => 1190890.057 F	North (Y) => East (X) =>
ELEV (M) => 2777.800 F	ELEV (M) =>
THETA θ - 1° 34' 18.81" SCALE FACTOR 0.99989543 COMBINE FACTOR 0.99976255	THETA θ SCALE FACTOR COMBINE FACTOR
N FORWARD GEO AZ N BACKWARD GEO AZ	N FORWARD GRID AZ N BACKWARD GRID AZ
GEODETTIC DISTANCE GRID DISTANCE	Another Inverse ? Y or N

By USGS, ROLLA, MO. BM 2-352 1948 is 58.78 feet in true AZ of 202° 51' 35" from the positioned point (an un-

22 51 35

IMPORTANT

To: Larry

Date: Feb 7/15 Time: 12:30

WHILE YOU WERE OUT

M. E. B. Finley

of USGS

Phone: 314-341-0940

TELEPHONED	PLEASE CALL
CALLED TO SEE YOU	WILL CALL AGAIN
WANTS TO SEE YOU	URGENT
RETURNED YOUR CALL	

Message: Post 2352 - elev. NA 2777.8 feet

Signed _____

N. C. Dept. of Natural Resources and Community Development

NGVD 29 Elevations