

THIRD-ORDER LEVELING  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

14  
34-078-24  
BOLTON QUADRANGLE  
14 NORTH CAROLINA  
N3415-W7815/15  
DIAGRAM NI 17-6  
FLORENCE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Bladen and Columbus Counties,  
North Carolina

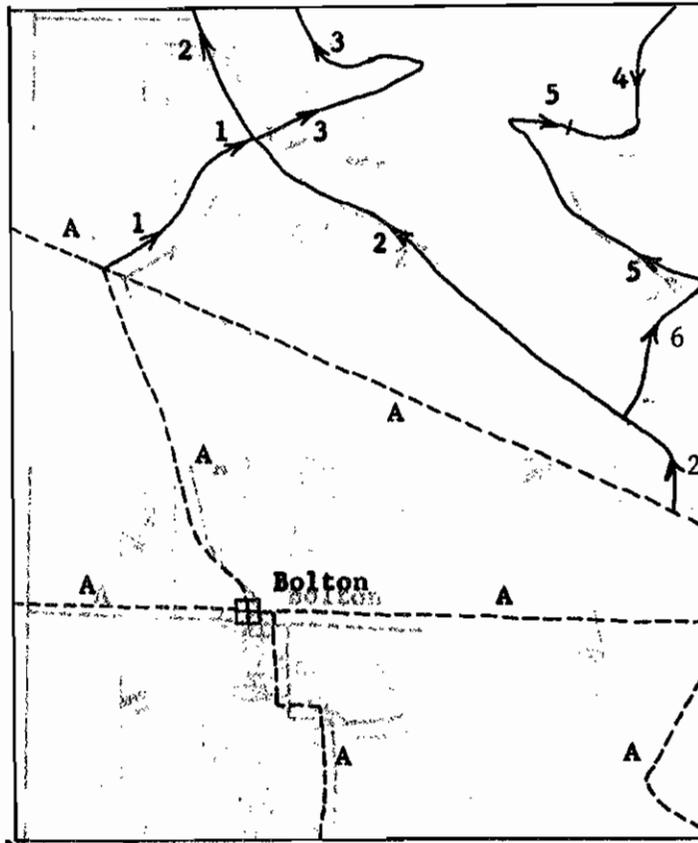
Final adjustment of 1951

NGVD 29  
Elevations

Edition of 9/22/80

PR: JRS/wjf

WHITE LAKE  
(27)



NGVD 29  
Elevations

WHITEVILLE  
(15)

ACME  
(13)

34°15'

78°15'

SUPPLY  
(7)

NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 340782

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		SMITH AZ. 9 1980	

NGVD 29  
Elevation

BOLTON QUADRANGLE  
Book AV 274

14 NORTH CAROLINA

J. J. Spahr

34-078-24  
3

1951

LINE 1.

Feet

By J. J. Spahr, 1951; Book AV 274

"X 80 1934" (NGS) 72.106

Councils, 2.0 mi NE. of railroad station; 3.8 mi SW. of Carvers Crossroads; 4 ft S. of S. corner of Trinity Methodist Church; about 360 ft NE. of junction with Y-rd. E.; 78 ft N. of center of E.-W. rd.; in concrete post; standard tablet stamped "120 JJS 1951 70" 70.174

Reference mark, 20 ft NW. of tablet; on NW. corner of first step to church; chiseled square 70.15

U.E., Councils, 3.4 mi NE. of railroad station; at center of SE. concrete headwall of bridge over Carver Creek; chiseled square 44.62

Carvers Crossroads; 36 ft NE. of center of State Highway 87; 15 ft SE. of center of dirt rd. NE.; 15 ft NW. of History Information sign; in triangle formed by drainage ditches; in concrete post; U.S.C.E. capped iron pipe stamped "30 NC-1/CE MON NO 22/3 TT-A-124/1943" 70.858

LINE 2.

By J. J. Spahr, 1951; Book AV 274

"D 81 1934" (NGS) 50.846

Acme, 4.7 mi NW. of railroad station, along State Highway 87; 5.0 mi N. of Freeman; 21 ft E. of; and level with junction with Y-rd. S.; 19 ft NE. of center of State Highway 87; 4 ft SE. of road marker; in concrete post; standard tablet stamped "121 JJS 1951 58" 58.156

Reference mark, 50 ft SW. of tablet; on W. end of concrete pipe culvert; chiseled square 56.97

Acme, 6.2 mi NW. of railroad station, along State Highway 87; 0.6 mi NW. of Weyman Church; about 200 ft E. of Carters Grocery; 54 ft N. of; and level with junction with Y-rd. W.; 33 ft NE. of center of State Highway 87; 6 ft NW. of electric pole; in concrete post; standard tablet stamped "122 JJS 1951 47" 46.851

Reference mark, 6 ft SE. of tablet; in SW. base of electric pole; spike 47.94

Acme, 7.8 mi NW. of RR. station, along State Highway 87; 7.8 mi SE. of Carvers Crossroads; 1.0 mi SW. of Kings Bluff; U. S. Lock No. 1 on Cape Fear River; 140 ft W. of Carters Store; 54 ft W. of junction of Y-rd. E.; 3 ft SE. of electric pole; in concrete post; standard tablet stamped "123 JJS 1951 RESET 1964" 42.296

LINE 2 (Cont'd.)Feet

Reference mark, 110 ft SE. of tablet; on W. corner of concrete base to gas pump; chiseled square	39.66
Carvers Crossroads, 5.9 mi SE. of, along State Highway 87; 2.9 mi N. of East Arcadia; 54 ft W. of; and 3 ft lower than junction with rd. S. to East Arcadia; 24 ft NW. of center of N.-S. rd.; 5 ft S. of electric pole; in concrete post; standard tablet stamped "124 JJS 1951 57"	56.640
Reference mark, 130 ft N. of tablet; on SE. corner of concrete base of Pure Oil sign; chiseled square	58.05
Carvers Crossroads, 3.7 mi SE. of, along State Highway 87; about 120 ft W. of L. F. Kennedys Service Station; 24 ft SW. of center of highway; 40 ft NW. of center of private drive SW.; 8 ft E. of corner fencepost; in concrete post; standard tablet stamped "125 JJS 1951 60"	60.345
Reference mark, 160 ft E. of tablet; on NW. corner of concrete base to Gulf sign; chiseled square	53.47
Carvers Crossroads, 1.4 mi SE. of, along State Highway 87; 180 ft NW. of junction with Y-rd. W.; 6 ft SW. of; and 2 ft lower than center of highway; 26 ft N. of center of E.-W. rd.; in concrete post; standard tablet stamped "126 JJS 1951 71"	70.590
Reference mark, 87 ft SE. of tablet; on W. base of traffic sign post; spike	72.46
"30 NC-1/CE MON NO 22/3 TT-A-124/1943" (Described in line 1)	70.858
Carvers Crossroads, 2.4 mi NW. of, along State Highway 87; 2.0 mi SE. of Mount Horeb Church; 42 ft N. of intersection with E.-W. rd.; 21 ft NE. of; and level with center of highway; in concrete post; standard tablet stamped "127 JJS 1951 77"	77.385
Reference mark, 81 ft SE. of tablet; in W. base of 2-ft pine tree; spike	78.00

LINE 3.

By J. J. Spahr, 1951; Book AV 274

Lagoon, 6.4 mi SE. of post office, along State Highway 53; 45 ft NE. of and level with intersection with NE.-S. private rd.; 33 ft N. of center of highway; 46 ft SE. of 3-prong oak tree; in concrete post; standard tablet stamped "135 JJS 1951 32"	32.157
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LINE 3 (Cont'd.)Feet

- Carvers Crossroads, 4.1 mi NE. of, along Elwell Ferry Road, thence 0.4 mi NW. of, along State Highway 53; 7.5 mi SE. of Lagoon; at center of S. concrete headwall of culvert over NE.-SW. creek; chiseled square 28.88
- Elwell, 4.1 mi NE. of Carvers Crossroads, along Elwell Ferry Road; about 250 ft N. of H. R. Allens Store; 51 ft E. of; and level with T-junction with Ferry Road S.; 21 ft NE. of center of State Highway 53; 3 ft SW. of rd. marker; in concrete post; standard tablet stamped "136 JJS 1951 34" (Reported disturbed, 1965) 34.407
- Elwells Ferry, 2.6 mi NE. of Carvers Crossroads; 34 ft W. of W. corner of ferry house; in root on E. side of 3-ft. birch tree; copper nail and washer 21.80
- Carvers Crossroads, 1.2 mi NE., along dirt rd.; 18 ft N. of center of main rd.; 15 ft E. of center of drive; in concrete post; U.S.C.E. capped iron pipe stamped "30 NC 1/CE #23/3 TT A 124/1943" 71.902

LINE 4.

By J. J. Spahr, 1951; Book AV 274

- Kelly, 3.0 mi E. of, along State Highway 53 to junction with T-rd. N., thence 2.9 mi N.; 4.4 mi S. of Hamilton Store; 53 ft SW. of; and level with junction with rd. S. of turn SW. in main rd.; 24 ft W. of center of paved rd.; 5 ft NW. of pole #1376; in concrete post; standard tablet stamped "153 JJS 1951 52" 51.478
- Reference mark, 57 ft E. of tablet; in N. base of electric guy pole; spike 52.91
- Kelly, 3.0 mi E. of, along State Highway 53 to junction with paved rd. N., thence 0.6 mi N.; 6.7 mi S. of Hamilton Store; 55 ft NW. of; and level with intersection with E.-W. rd.; 21 ft N. of center of E.-W. rd.; 5 ft E. of pole #1404; in concrete post; standard tablet stamped "154 JJS 1951 27" 27.105
- Kelly, 4.0 mi ESE., along State Highway 53 to junction with dirt rd. SE.; 57 ft W. of SW. corner of old storehouse; in concrete post; U.S.C.E. capped iron pipe stamped "30 NC 1/CE 50/3 TT A 124/CP 1" 27.815
- Kelly, 6.8 mi ESE. of, 0.3 mi SW. of bridge over Lyons Creek; 30 ft N. of center of NW.-SE. crossroad; 21 ft NW. of; and level with center of NE.-SW. rd; in concrete post; standard tablet stamped "161 JJS 1951 25" 24.476

LINE 4 (Cont'd.)FeetReference mark, 30 ft W. of tablet; in W. base of 1-ft pine tree;  
copper nail and washer

23.69

LINE 5.

By J. J. Spahr, 1951; Book AV 274

Kelly, 4.1 mi SE. of; 4 ft W. of W. corner of Natmore Baptist Church;  
in concrete post; standard tablet stamped "162 JJS 1951 24"

23.715

Reference mark, 130 ft S. of tablet; in N. base of electric pole;  
spike

21.65

Kelly, 2.4 mi SE. of post office; 1.7 mi NW. of Natmore Baptist Church;  
26 ft SW. of; and level with junction with rd. NE.; 35 ft SE. of  
3-ft pine tree; in concrete post; standard tablet stamped  
"163 JJS 1951 24"

23.497

Kelly, 1.1 mi SE. of post office; 36 ft W. of; and level with Y-junction  
with rd. E.; 20 ft SW. of center of rd.; 190 ft NW. of pole #1459;  
in concrete post; standard tablet stamped "164 JJS 1951 29"

28.433

Reference mark, 190 ft SE. of tablet; in W. base of pole #1459; spike

28.98

Kelly, 0.9 mi ESE., along State Highway 53 to junction of drive  
NNE. to house; 18 ft ESE. of center of drive; in concrete post;  
U.S.C.E. capped iron pipe stamped "30 NC 1/CE #44/3 TT A 124/1943"

27.872

LINE 6.

3 1 0.00 NGS bench mark "COL-2 1974" 18.603

3 1 1.76 Harrells, 4.3 mi N. of; 2.7 mi E. along SR 1003  
from intersection with U. S. 421 at Delway; W. of Duplin-  
Sampson county line; 0.1 mi SW. of SR 1100  
crossroads; 26.5 ft SE. of centerline of SR  
1003; 38.0 ft NE. of centerline dirt drive leading  
S.; 25.0 ft NE. of corner fence post with re-  
ference tag; 0.8 ft SW. of witness sign; 1.5  
ft NW. of fence; 59.3 ft ENE. of power pole  
#28061 with reference tag; set in top of concrete  
post flush with ground; standard tablet stamped  
~~"90 MEA 1980"~~ 91 MEA~~50.868~~

3 2 2.72

✓  
90 MEA HAS NO DESC. ELEV = 50.868 \* (15.5046 m) 121.813 FT.  
Freeman, 5.4 mi N. of, along State Route 11; 1.0  
mi N. of S. end of bridge over Cape Fear River;  
49 ft S., 16 ft W. and 0.2 ft higher than center-  
line of rd. at woods line W.; 48 ft ENE. of  
12 inch pine tree with witness sign; set 0.8  
inches below ground; Bladen County tablet  
stamped "SMITH AZ. 9 1980"

22.934

\*90 MEA DESCRIPTION ATTACHED  
TO QUADTHIS DESC.  
IS FOR 91 MEA  
IN QUAD 41

LINE 6. (Cont'd)Feet

3 3 3:56 Atkinson, 9.0 mi SSW. of; 5.0 mi S. along NC 11 from intersection with NC 53 to bridge over White Oak canal in E. wingwall of NE. abutment; 1.7 mi N. of Cape Fear River bridge; 16.5 ft SE. of centerline of NC 11; set in concrete wingwall; standard tablet stamped "89 MEA 1980"

26.150

NGVD 29  
Elevations

