

1RD ORDER LEVELING
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

35-078-13
SELMA QUADRANGLE
144 NORTH CAROLINA
N3530-W7815/15
DIAGRAM NI 17-3
RALEIGH

Johnston and Wake Counties

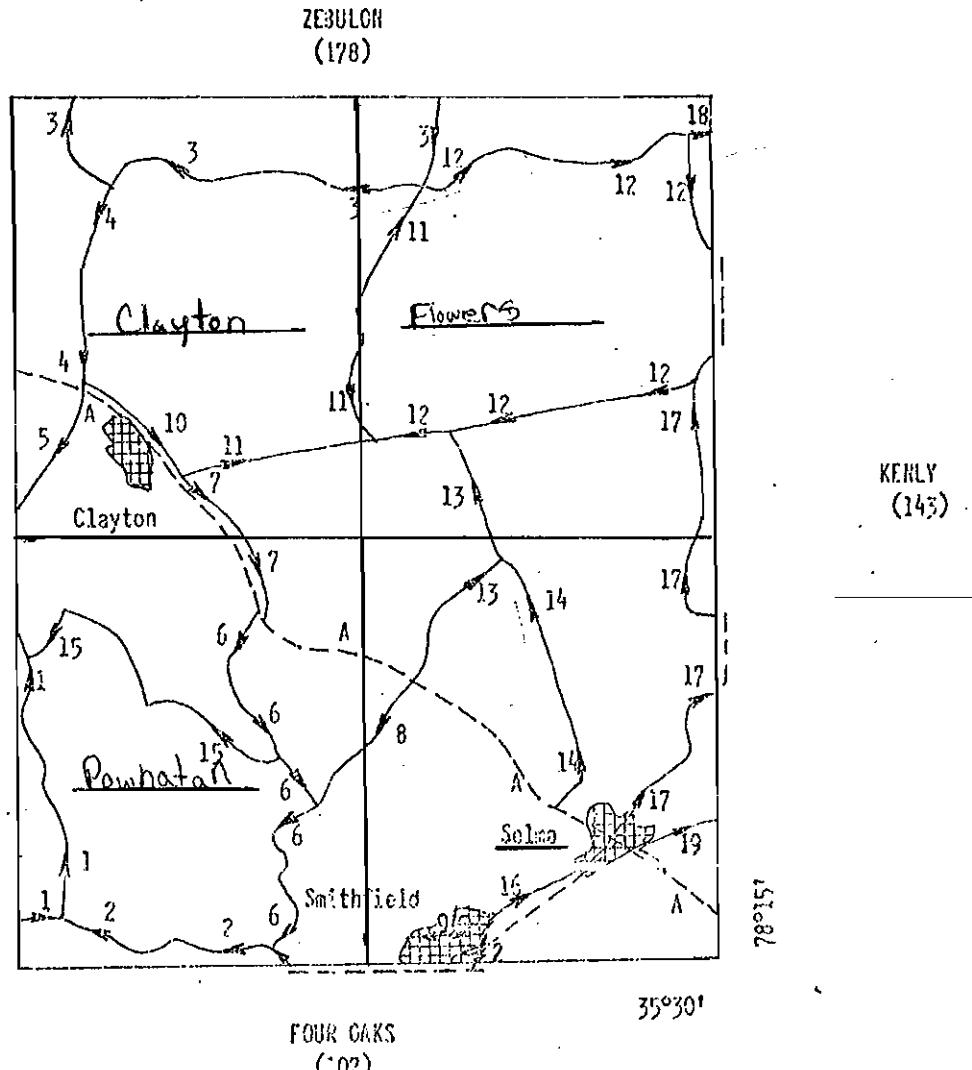
Final adjustment of 1974

Edition of 2/27/76

PR: WSM/mcc

NGVD 29
Elevations

GARNER
(145)



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ISOLATED BENCH MARKS (By W. C. Hall, 1897; Book 5012)

Feet

Selma; 158 ft S. of N. rail of main track of Southern Railway; 128 ft W. of W. building line of Webb Street; near E. end of one-story brick store occupied by N. B. Snipe & Bros.; in concrete post; standard tablet stamped "178" (Reported destroyed, 1935) (Tied by NGS, 1935)

177.362

Clayton; 162 ft S. of N. rail of main track; near E. corner of store; in front of brick store of W. H. McCullers, Sr., and Son; standard tablet stamped "346"

344.852

Archer; 250 ft W. of crossroads; in SW. pillar of Masonic Hall; standard tablet stamped "338 RALEIGH"

337.548

Emit; at N. corner of former post office; at E. angle of crossing; 25 ft E. of centerline of rd.; on iron post; standard cap stamped "287 RALEIGH"

286.740

Smithfield; in NW. corner of county courthouse; standard tablet stamped "146 RALEIGH"

145.617

Preston; 30 ft S. of centerline of rd. forks; in N. corner of yard of A. M. Sanders; on iron post; standard cap stamped "233 RALEIGH"

232.926

LINE 1.

By D. R. Deane, 1960; Book AV 816

5 20 11.19 Coats Crossroads, 3.4 mi E. of, thence 2.0 mi N.; 10 ft N. and 110 ft E. of, and 5 ft higher than centerline of intersection at driveway E.; at residence of Mr. John Austin; at side entrance of house; in NE. corner of lowest step; standard tablet stamped "72 DRD 1960 226"

226.201

5 25 13.94 Coats Crossroads, 3.4 mi E. of, thence 2.6 mi N. and 0.3 mi W., thence 1.8 mi N. and NW.; 2.1 mi W., thence 6.1 mi SW. and S. of Clayton; in SE. wingwall of bridge over Swift Creek; standard tablet stamped "73 DRD 1960 174"

174.078

5 27 15.32 U.E., on N. end of culvert at W. end of headwall; chiseled square

216.20

LINE 2.

By D. R. Deane, 1960; Book AV 816

152.887

5 35 0.00 "170 1934" (NGS) (Destroyed)

5 43 5.70 Smithfield, 2.8 mi SW. of, along U. S. Highway 301, thence 3.0 mi NW.; 35 ft S. and 145 ft W. of T-rd. S.; at store of J. G. Barbour; in concrete base to gasoline pumps; standard tablet stamped "122 DRD 1960 189"

188.499

5 44 6.69 Reference mark; 65 ft NW. of tablet; on concrete steps of residence of Mr. J. P. Puttman; chiseled square

189.11

5 46 6.76 U.E., at SE. corner of J. Y. Baker grocery; on NE. corner of concrete base of Gulf sign; chiseled square

236.39

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LINE 2 (Cont'd)

				Feet
5 47	7.20	Smithfield, 2.8 mi SW. of, along U. S. Highway 301, thence 3.0 mi NW.; thence 1.0 mi W. along State Highway 210; 24 ft N. and 10 ft W. of, and level with E. entrance to Johnston Boarding Home; in concrete post; NGS standard reference mark disk stamped "ALBERT NO 1 1933"	<i>DESTROYED</i> <i>10/91 EWR</i>	Disk Removal 239.514
5 50	8.93	Smithfield, 2.8 mi SW. of, along U. S. Highway 301, thence 3.0 mi NW., thence 2.4 mi W. along State Highway 210; 5.1 mi E. of Coats Crossroads; 20 ft S. and 34 ft W. of, and 1 ft lower than driveway S.; at residence of Mr. Jasper Stewart; in concrete post; USCE standard disk stamped "US ARMY NC 42"		213.821
5 51	9.15	Coats Crossroads, 4.9 mi E. of, along State Highway 210; 25 ft S. and 47 ft E. of, and level with driveway S. to residence of Hebert Stewart; in concrete post; USCE standard disk stamped "US ARMY 3-0 TRA STATION TT A 81/16 30TH ENGR NC 42"		203.896

LINE 3.

By D. R. Deane, 1960; Book AV 816

11 11	3.84	U.E., at Pearce Grocery; on NE. corner of gasoline pump base; chiseled square	311.87
11 12	4.57	Archers Lodge, 1.7 mi N. of; at Johnson Supply Company; in concrete base at SE. corner of N. gasoline pump; standard tablet stamped "37 DRD 1960 261" (<u>Reported not found, 1968</u>)	260.737
11 13	5.18	U.E., 72 ft N. and 130 ft E. of E. end of bridge over Buffalo Creek; on rock outcrop; chiseled square	239.53
11 16	6.97	Archers Lodge, 2.6 mi NW. of; 400 ft NW. of junction of rd. SE.; 100 ft NE. of residence of Z. V. Spells; 20 ft SW. of centerline of rd.; in concrete post; NGS standard reference mark disk stamped "CLYDE NO 2"	315.467
11 17	7.37	Archers Lodge, 3.0 mi NW. of; 3.0 mi E. of Shotwell; 200 ft SW. of Less Crossroads Church; 40 ft N. of centerline of rd.; in concrete post; NGS standard reference mark disk stamped "CLYDE NO 3"	321.435
11 22	10.34	Shotwell, 0.5 mi SW. of; 31 ft N. and 83 ft W. of, and 1 ft lower than crossroads; in concrete post; standard tablet stamped "38 DRD 1960 288"	87.615 287.451
11 24	11.43	Shotwell, 1.5 mi SW. of; 2.6 mi SE. of Bethlehem Church; 59 ft N. and 24 ft W. of, and 2 ft higher than junction of T-rd. W.; in concrete post; USCE standard disk stamped "MON 3-0 TT A 79/35 30TH ENGR NC 42"	85.021 278.939
11 25	12.33	U.E., on W. end of N. concrete wheelguard of bridge over Poplar Creek; chiseled square	165.81

LINE 4.

By D. R. Deane, 1960; Book AV 816

11 29	0.00	"MON 3-0 TT A 79/35 30TH ENGR NC 42" (Described in line 3)	278.939
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LINE 4 (Cont'd)

NGVD 29

Elevations

Feet

11 30 1.72	Shotwell, 3.6 mi SW. of; 1.2 mi NW. thence 2.0 mi N. of Clayton; in W. end of N. abutment of bridge over Neuse River; standard tablet stamped "39 DRD 1960 169"	<u>51.51</u> 169.000
11 32 2.32	U.E., at N. end of bridge; on W. wheelguard; chiseled square	166.91
11 36 4.61	"H 150 1935" (NGS)	331.325

LINE 5.

By D. R. Deane, 1960; Book AV 816

11 38 0.00	"H 150 1935" (NGS) (Also in line 4)	331.325
11 41 2.65	Clayton, 1.8 mi SW. of; 34 ft N. of hwy.; 69 ft S. of SE. corner of porch of residence of W. F. Smith; in concrete post; NGS standard reference mark disk stamped "CLAYTON NO 4 1933"	352.165
11 41 2.65	Clayton, 1.8 mi SW. of; 10 ft E. of centerline of driveway; 5 ft SW. of SW. corner of shed; E. of residence of W. F. Smith; in concrete post; NGS standard reference mark disk stamped "CLAYTON NO 5 1933"	352.594

LINE 6.

By D. R. Deane, 1960; Book AV 816

13 2 0.00	"F 150 1935" (NGS)	314.540
13 4 1.15	Clayton, 3.0 mi SE. of, along U. S. Highway 70; 15 ft S. and 142 ft E. of, and level with intersection of rd. NE.; in concrete post; NGS standard reference mark disk stamped "MALL NO 3 1933"	303.023
13 9 3.33	Clayton, 3.9 mi SE. of, along U. S. Highway 70, thence 1.0 mi S.; 38 ft N. and 42 ft W. of, and 1 ft higher than driveway W.; in N. end of first concrete step of front entrance of residence of H. G. Townsend; standard tablet stamped "147 DRD 1960 262"	262.136
13 9 3.33	Reference mark; 40 ft W. of tablet; on SW. corner of first step; chiseled square	261.31
12 12 5.81	Smithfield, 4.3 mi NW. of, thence 0.9 mi W.; 37 ft N. and 49 ft E. of, and level, with junction of T-rd. N.; in boulder; standard tablet stamped "148 DRD 1960 236"	236.179
13 17 8.76	Smithfield, 3.8 mi W. of, along State Highway 210 and county rd., thence 0.1 mi N.; 35 ft E. of centerline of rd.; at residence of Lonnie McClain; in SE. corner of sidewalk; standard tablet stamped "149 DRD 1960 173"	173.641
13 17 8.76	Reference mark; 12 ft W. of tablet; in SW. corner of sidewalk in front of home of Lonnie McClain	173.42

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LINE 6 (Cont'd)NGVD 29
Elevations

Feet

13 20 10.38 U.E., on U. S. Highway 210; on N. end of E. abutment of bridge over Middle Creek;
chiseled square

127.64

13 21 10.65 "122 DRD 1960 189" (Described in line 2)

188.499

LINE 7.

By D. R. Deane, 1960; Book AV 816

13 34 0.00 "D 71 1934" (NGS)

328.123

13 34 0.47 U.E., at crossroads; on NE. corner of signal post; chiseled square

326.42

13 37 1.90 "F 150 1935" (NGS) (Also in line 6)

314.540

LINE 8.

By D. R. Deane, 1960; Book AV 816

13 39 0.00 "B 150 1935" (NGS)

229.465

13 39 0.17 Wilsons Mills; in coping over W. edge of opening at N. end of 3-by 3-ft box culvert;
copper bolt stamped "229" (Tied by NGS, 1935)

228.376

13 43 2.38 Wilson Mills, 1.7 mi SW. of; 25 ft SE. of, and 1 ft lower than centerline of rd.; in
NE. corner of SE. headwall of culvert over Little Branch; standard tablet stamped
"59 DRD 1960 163"

163.079

13 43 2.38 Reference mark; 45 ft W. of tablet; on center of NW. headwall of culvert; chiseled
square

163.03

LINE 9.

By D. R. Deane, 1960; Book AV 816

13 55 0.00 "SMITHFIELD 1934" (NGS)

140.046

13 55 0.23 U.E., on SE. wingwall of bridge over Neuse River; chiseled square

137.20

LINE 10.

By D. R. Deane, 1960; Book AV 816

15 1 0.00 "H 150 1935" (NGS) (Also in lines 4 and 5)

331.325

15 4 1.78 "D 71 1934" (NGS) (Also in line 7)

328.123

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D. R. Deane
1960

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		LINE 11.	NGVD 29 Elevations	Feet
	By D. R. Deane, 1960; Book AV 816			
15 5 0.00	"0 71 1934" (NGS)			328.123
15 5 0.54	U.E., at E. side of RR. crossing and State Highway 42; on N. corner of RR. signal tower base; chiseled square			326.39
15 9 2.91	Clayton, 3.1 mi E. of, along State Highway 42; on S. end of E. abutment of bridge over Neuse River; standard tablet stamped "80 DRD 1960 159"			158.892
15 9 2.91	Reference mark; 250 ft W. of tablet; on S. wheelguard; chiseled square			159.76
15 14 5.43	Clayton, 5.6 mi E. of, along State Highway 42; 50 ft N. and 88 ft E. of, and 3 ft higher than centerline of junction of rd. N.; at Jimmy Flowers Grocery; in S. side of W. concrete gasoline pump base; standard tablet stamped "81 DRD 1960 278"			277.668
15 14 5.43	Reference mark; 30 ft E. of tablet; on SE. corner of E. concrete gasoline pump base; chiseled square			277.70
15 19 8.06	Clayton, 5.6 mi E. of, along State Highway 42, thence 2.6 mi N.; 1.2 mi S. of Archers Lodge; on S. end of E. headwall of twin concrete pipe culvert; standard tablet stamped "82 DRD 1960 281"			280.860
15 19 8.06	Reference mark; 30 ft W. of tablet; on W. end of southernmost concrete pipe; chiseled square			279.95
15 22 9.29	Archers Lodge; at Archers Lodge Grammar School grounds; in concrete base of E. leg of water tank; standard tablet stamped "83 DRD 1960 337"			337.707
15 22 9.29	Reference mark; 24 ft E. of tablet; on S. corner of bottom step; chiseled square			337.56
15 25 11.12	U.E., on S. wingwall at E. end of bridge over Buffalo Creek; chiseled square			234.55
15 26 11.96	"37 DRD 1960 261" (Described in line 3)			260.737

LINE 12.

By D. R. Deane, 1960; Book AV 816

15 30 0.00	"37 DRD 1960 261" (Described in line 3)	260.737
15 36 3.29	Archers Lodge, 2.7 mi N. of, thence 3.2 mi E.; 2.5 mi W. of Emit; in concrete slab at W. entrance to Corinth-Welder High School gymnasium; standard tablet stamped "86 DRD 1960 312"	312.281
15 36 3.29	Reference mark; 40 ft SW. of tablet; on concrete base of N. leg of water tank; chiseled square	313.44
15 38 4.37	U.E., on N. end of E. abutment of bridge over Little River; chiseled square	203.88
15 42 6.05	Emit; at Watkins Chapel Baptist Church; in concrete footing at S. corner of church; standard tablet stamped "87 DRD 1960 299"	299.293

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NE 12 (Cont'd)NGVD 29
Elevations

Feet

15 45 8.06 Emit, 2.0 mi S. of, along State Highway 39; 32 ft N. and 50 ft E. of, and level with N. entrance of circular drive E.; at residence of Mr. O. J. Harron; in N. end of bottom step; standard tablet stamped "88 DRD 1960 287"

286.975

Jogs into Kenly quadrangle

15 52 11.62 Emit, 4.7 mi S. of, along State Highway 39, thence 0.5 mi W., along State Highway 42; 11.6 mi E. of Clayton; in N. end of W. abutment of bridge over Little River; standard tablet stamped "90 DRD 1960 185"

184.629

15 56 14.06 Clayton, 9.1 mi E. of, along State Highway 42; in concrete base of SE. leg of lookout tower; standard tablet stamped "91 DRD 1960 251"

250.914

15 59 15.76 Clayton, 7.4 mi E. of, along State Highway 42; in N. end of W. abutment of bridge over Buffalo Creek; standard tablet stamped "92 DRD 1960 206"

206.144

15 61 17.49 "81 DRD 1960 278" (Described in line 11)

277.668

LINE 13.

By D. R. Deane, 1960; Book AV 816

19 23 0.00 "229" (Described in line 8)

228.376

19 26 2.03 Wilson Mills, 2.1 mi NE. of; 36 ft S. and 30 ft E. of, and 10 ft lower than N. end of wooden bridge over Neuse River; in NE. concrete abutment of abandoned bridge; standard tablet stamped "184 DRD 1960 135"

135.509

19 27 2.95 U.E., on concrete base of gasoline pumps in front of Johnny Flowers Store; chiseled square

251.42

19 30 4.69 U.E., at front entrance to Red Hill Church; on NW. corner of top step; chiseled square

289.11

19 33 6.49 "81 DRD 1960 278" (Described in line 11) (Also in line 12)

277.668

LINE 14.

By D. R. Deane, 1960; Book AV 816

19 35 0.00 "Z 149 1935" (NGS)

150.466

19 38 2.03 Selma, 2.0 mi NW. of; 22 ft E. of, and 2 ft lower than rd.; in NE. corner of E. abutment of concrete culvert; standard tablet stamped "186 DRD 1960 148"

147.945

19 41 3.55 Selma, 3.5 mi NW. of; 22 ft W. of, and 1 ft lower than rd.; in SW. corner of W. abutment of concrete culvert; standard tablet stamped "186 DRD 1960 156"

156.344

19 46 5.99 "U.E., 251.4" (Described in line 13)

251.42

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1960

Feet

By D. R. Deane, 1960; Book AV 816

		<u>LINE 15.</u>	
19 46	0.00	"148 DRD 1960 236" (Described in line 6)	NGVD 29 Elevations
			236.179
19 48	0.51	U.E., on W. corner of S. abutment of concrete culvert; chiseled square	139.84
19 51	2.11	Smithfield, 4.9 mi NW. of, along U.S. Highway 70, thence 2.6 mi W.; 46 ft S. of, and 3 ft higher than rd.; at entrance to Little Creek Church; in W. corner of second step; standard tablet stamped "187 DRD 1960 242"	242.511
19 51	2.11	Reference mark; 39 ft NW. of, and 2 ft lower than tablet; 17 ft S. of rd.; on E. end of middle step of cemetery entrance; chiseled square	240.67
19 52	2.70	U.E., on W. corner of S. wheelguard of concrete bridge over Little Creek; chiseled square	157.84
19 54	3.98	U.E., on W. end of concrete tile drain crossing; chiseled square	238.15
19 56	5.45	Smithfield, 4.6 mi NW. of, along U. S. Highway 70, thence 6.3 mi NW., along paved county rd.; in front of F. H. Harrison's Store; in concrete base of gasoline pump; standard tablet stamped "188 DRD 1960 305"	304.813
19 59	7.60	"U. E. chiseled square" (Described in line 1)	216.20

LINE 16.

By D. R. Deane, 1960; Book AV 816

20 2	0.00	"V 70 1934" (NGS) (Not found)	150.361
20 2	0.35	Smithfield, 1.5 mi E. of, along U. S. Highway 301; 149 ft N. of residence of Mr. W. L. Turner; 28 ft NW. of NE. corner of barn; in concrete post; NGS standard triangulation station disk stamped "DAIL 1933"	152.019
20 7	3.08	"X 70 1934" (NGS)	179.071

LINE 17.

By D. R. Deane, 1960; Book AV 816

20 8	0.00	"X 70 1934" (NGS) (Also in line 16)	179.071
20 8	1.20	U.E., at Brown's Bar-B-Q Restaurant; on SW. corner of concrete base of Amoco gasoline sign; chiseled square	175.33

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NGVD 29
Elevations

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LINE 17 (Cont'd)

Feet

- * 20 11 2.55 Selma, 2.0 mi NE. of, along U. S. Highway 301; 58 ft S. and 10 ft E. of, and level with junction of rd. N.; at front entrance of residence of Mr. Joe R. Brannan; in W. end of bottom concrete step; standard tablet stamped "96 DRD 1960 191"

191.122

Jogs into Kenly quadrangle

- 20 19 7.39 Emit, 8.7 mi S. of, along State Highway 39; in E. end of N. abutment of bridge over Buffalo Creek; standard tablet stamped "98 DRD 1960 170"

170.40

- 20 22 9.38 Emit, 6.7 mi S. of, along State Highway 39; in N. end of E. headwall of concrete culvert over Long Creek; standard tablet stamped "99 DRD 1960 180"

180.056

- 20 23 9.38 Reference mark; 30 ft W. of tablet; on N. end of W. headwall culvert; chiseled square

180.18

- 20 25 10.56 U.E., on SE. corner of concrete gasoline pump base at Ronnie Hick's Garage; chiseled square

225.01

- 20 27 11.33 U.E., on E. end of N. abutment of bridge over Little River; chiseled square

179.38

LINE 18.

By D. R. Deane, 1960; Book AV 816

- 16 26 0.00 "87 DRD 1960 299" (Described in line 12)

299.293

LINE 19.

By R. L. Meador, 1975; Book AV 1708

- 1 2 0.00 "X 149 1935" (NGS)

173.582

- 1 2 0.77 U.E., centerline of northbound lane Interstate-95 at drain crossing

168.62

WL = 158 ft