

3-ORDER LEVELING
FINAL GEODETIC VERTICAL DATUM OF 1929

35-080-32
MATTHEWS QUADRANGLE
NORTH CAROLINA
N3500-W8050/15
DIAGRAM NI 17-2
CHARLOTTE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Cabarrus, Mecklenberg, Stanley and
Union Counties

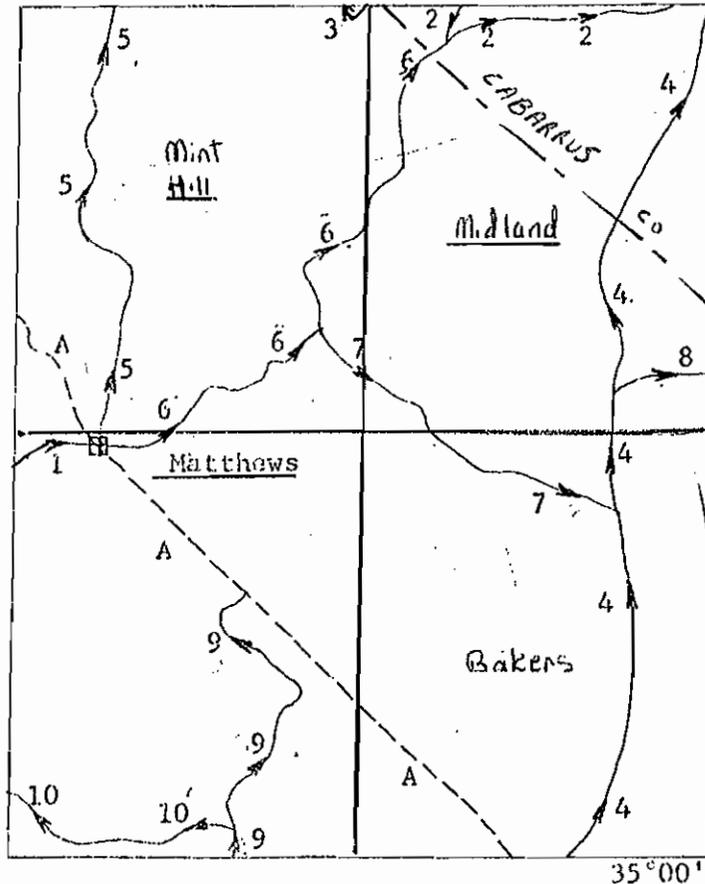
Final adjustment of 1975

Edition of 3/31/76

PR: WSM/sws

NGVD 29
Elevations

CONCORD
(116)



CHARLOTTE
(147 S.C.-80 N.C.)

STANFIELD
(78)

MONROE
(51 N.C.-135 S.C.)

NGS (USCGS) VERTICAL CONTROL DATA

A. Quadrangle 350503

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ISOLATED BENCH MARKS (By F. L. Foust, 1904; Book A6280 and B. B. Chamblin, 1936; Book B6579)

Feet

- ✓ Newell, 4.9 mi E. of station; 200 ft S. of Hickory Grove Church; in forks of rd.; on iron post; standard cap stamped "784 ADJ 1903" (Reported not found, 1970) 783.606
- ✓ Hickory Grove Church, 1.5 mi S. of; 100 ft W. of rd. crossing; 100 ft W. of rd. forks; 20 ft S. of centerline of rd.; on iron post; standard cap stamped "784 ADJ 1903" 783.568
- Flows, 6.3 mi S. of; 200 ft N. of Dulins Grove Church; in forks of Arlington and Charlotte Roads; on iron post; standard cap stamped "767 ADJ 1903" (Reported not found, 1970) 766.774
- Arlington; at SE. corner of former post office; in front face; on iron post; standard cap stamped "641 ADJ 1903" (Reported not found, 1970) 641.303
- Arlington, 4.3 mi S. of; 20 ft S. of crossing of old Lawyers and Stevens Mill Roads; 10 ft S. of centerline of rd.; on iron post; standard cap stamped "682 ADJ 1903" (Reported not found, 1970) 681.482
- (✓ Indian Trail; 200 ft W. of W. rail opposite depot; at SE. corner of post office; on iron post; standard cap stamped "696 ADJ 1903" (Reported not found, 1971) 696.056
- Weddington; at NW. corner of church; on iron post; standard cap stamped "726 ADJ 1903" (Reported disturbed, 1966) 725.410
- ✓ Matthews; 200 ft S. of S. rail opposite depot; 50 ft E. of Heath and Reid Stores; between stores, on iron post; standard cap stamped "731 ADJ 1903" (Reported not found, 1970) 730.435

LINE 1.

By E. G. Bates, 1965; Book AV 1392

- Matthews, 0.8 m W. of, along State Highway 51; 25 ft N. and 40 ft W. of, and 1.3 ft higher than centerline of hwy. at junction of T-rd. N.; on high bank; 4 ft E. of telephone pole; in concrete post; standard tablet stamped "58 EGB 1965 732" (Tied by NGS, 1971) 731.678
- "RV 409" (S.A.L. R.R.) (NGS) 729.142

NGVD 29
Elevations

LINE 2.

By E. G. Bates, 1966; Book AV 1436

Feet

1	46	8.40	Midland, 5.5 mi W. of junction of U.S. Highway 601 and State Highway 27 at Midland Fire Department, along Highway 27; 130 ft NE. of, and 3.0 ft lower than centerline of Highway 27 at junction of County Road 1134 N.; at S. edge of pine field; 0.5 ft SW. of metal witness sign; in concrete post projecting 0.2 ft above ground; standard tablet stamped "95 JAS 1966 727"	DEST 9/2000 TRW 726.567
1	47	9.69	Midland, 4.2 mi W. of junction of U.S. Highway 601 and State Highway 27 at Midland Fire Department, along Highway 27; 54 ft NW. ^{38 ft NW.} of, and 1.0 ft higher than centerline of Highway 27 at junction of County Road 1132 N.; 7 ft NW. ^{8 ft NW.} of power pole No. 349; 0.5 ft S. of metal witness sign; in concrete post level with ground; standard tablet stamped "96 JAS 1966 722" 29.3' W of E of SR 1182 92 Good	#82 JDB N/F 9/2000 TRW 721.933
1	49	11.08	Midland, 2.7 mi W. of junction of U.S. Highway 601 and State Highway 27 at Midland Fire Department, along Highway 27; 0.7 mi W. of Bethel School; 70 ft S. of, and 1.0 ft higher than centerline of Highway 27 at junction of County Road 1127 ¹¹²⁷ N.; 2 ft E. of wire fence; 0.5 ft E. of metal witness sign; in concrete post projecting 0.1 ft above ground; standard tablet stamped "97 JAS 1966 658" 41 Good	25.2' W. of E of SR 1127 7/82 JDB 41 Good 657.581
1	50	11.76	Midland, 2.0 mi W. of junction of U.S. Highway 601 and State Highway 27 at Midland Fire Department, along Highway 27; opposite Bethel School; 43 ft NE. of, and 1.0 ft higher than centerline of rd. at junction of drive N.; about 70 ft W. of power pole No. 378; 0.5 ft S. of metal witness sign; in concrete post projecting 0.2 ft above ground; standard tablet stamped "98 JAS 1966 621"	20.0' E of E of DR. (E. MUST DR.) 7/82 JDB N/F 9/100 TRW 620.470
1	52	12.53	Midland, 1.2 mi W. of junction of U.S. Highway 601 and State Highway 27 at Midland Fire Department, along Highway 27; 0.8 mi E. of Bethel School; 3.0 ft lower than centerline of rd.; in top of W. end of S. concrete headwall of large culvert over small stream; standard tablet stamped "99 JAS 1966 529"	Good 7/82 JDB 91 Good N/F TRW 9/10 41 Good 529.324

1966

LINE 3.

By E. G. Bates, 1966; Book AV 1435

2	2	0.65	Harrisburg, 0.9 mi. S. of post office, along County Road 1166, thence 3.0 mi S. along County Road 1168, thence 2.2 mi SE. along County Roads 1169 and 2809; about 36 ft W. of, and 2.0 ft lower than centerline of Road 2809 NW. at junction of County Road 2810; 27 ft N. of telephone pole No. 27½; 0.5 ft E. of metal witness post; in concrete post projecting 2 in. above ground; standard tablet stamped "100 JAS 1966 723"
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N/F
9/2009
TRW

722.523

LINE 4.

By H. L. Zohn, Jr., 1969; Book AV 1558

1	7	1.97	Monroe Court House, 1.0 mi N. of, along skyway, thence 1.0 mi N. along U.S. Highway 601; 205 ft NNW. of, and 4.0 ft lower than junction of Highway 601 and County Road 1565; in S. end of 57-ft concrete culvert over Stewerts Creek; standard tablet stamped "191 HLZ 1969"
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GOOD
6/82 JDB

524.074

1	10	<u>3.86</u>	Monroe Court House, 1.0 mi N. of, along skyway, thence 3.1 mi N. along U.S. Highway 601; 59 ft NE. of, and 0.5 ft lower than junction of Highway 601 and County Road 1001; in S. end of 4.5 ft concrete culvert; standard tablet stamped "192 HLZ 1969"
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GOOD
6/82 JDB

572.982

1	12	5.04	Monroe Court House, 1.0 mi N. of, along skyway, thence 4.3 mi N. along U.S. Highway 601; in S. end of walk in front of deserted service station; standard tablet stamped "193 HLZ 1969"
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SEA-STA. WOOD HOUSE
WALKWAY REMOVED
DEST. 6/82 JDB

608.366

1	13	6.08	Monroe Court House, 1.0 mi N. of, along skyway, thence 5.5 mi N. along U.S. Highway 601; in W. end of Shell gas pump base; standard tablet stamped "194 HLZ 1969"
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GOOD 6/82
JDB

626.047

1	15	8.03	Monroe Court House, 1.0 mi N. of, along skyway, thence 7.5 mi N. along U.S. Highway 601; in center of American gas pump base; standard tablet stamped "195 HLZ 1969"
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DESTROYED 6/82 JDB
GAS PUMP REPLACED

618.900

NGVD 29
Elevations

LINE 4 (Cont'd.)

Feet

1	17	9.40	Monroe Court House, 1.0 mi N. of, along skyway, thence 9.0 mi N. along U.S. Highway 601; 57 ft W. of, and 2.5 ft lower than centerline of hwy. opposite; in S. end of 18-ft concrete culvert for small stream; standard tablet stamped "196 HLZ 1969"	Good 6/82 JDB	568.205
1	19	10.45	Monroe Court House, 1.0 mi N. of, along skyway, thence 10.0 mi N. along U.S. Highway 601; in N. end of second step at main entrance of Fairview School; standard tablet stamped "197 HLZ 1969"	Good 6/82 JDB	541.179
1	21	11.98	Monroe Court House, 1.0 mi N. of, along skyway, thence 11.6 mi N. along U.S. Highway 601; 31 ft W. of, and 2.0 ft lower than centerline of rd. opposite; in S. end of 11-ft concrete culvert for small stream; standard tablet stamped "198 HLZ 1969"	Good 6/82 JDB Good 9/00 TRW	517.789
1	23	13.26	Midland Post Office, 4.2 mi S. of, along U.S. Highway 601; 23 ft E. of, and about 6.0 ft lower than centerline of hwy. opposite; in S. end of 39-ft concrete culvert over Duck Creek; standard tablet stamped "199 HLZ 1969"	Good 6/82 JDB Good 9/00 TRW	486.097
1	25	14.37	Midland Post Office, 3.0 mi S. of, along U.S. Highway 601; in NE. wingwall of 96-ft concrete bridge over Clear Creek; standard tablet stamped "200 HLZ 1969"	Good 6/82 JDB Good 9/00 TRW	479.789
1	27	15.55	Midland Post Office, 1.9 mi S. of, along U.S. Highway 601; 203 ft N. and 28 ft E. of, and 1.0 ft lower than junction of U.S. Highway 601 and County Road 1116; in S. end of 9-ft concrete culvert; standard tablet stamped "201 HLZ 1969"	Good 6/82 JDB Good 9/00 TRW	527.060
1	30	16.91	Midland Post Office, 0.4 mi S. of, along U.S. Highway 601; in NE. wingwall of 153-ft bridge over RR.; standard tablet stamped "202 HLZ 1969"	Good 6/82 JDB Good 9/00 TRW	535.118

LINE 5.

By H. L. Zohn, Jr., 1969; Book AV 1558

1	40	0.00	"N 73 1934 721.022" (NGS)		721.016
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NGVD 29
Elevations

LINE 5 (Cont'd.)Feet

1	42	1.61	Matthews, 1.2 mi N. of junction of County Road 3474 and State Highway 51, along Road 3474; 25 ft SE. of, and level with centerline of rd. opposite; in NE. end of 22-ft concrete culvert; standard tablet stamped "203 HLZ 1969"	639.465
1	46	3.36	Matthews, 1.4 mi N. of junction of County Road 3474 and State Highway 51, thence 1.5 mi N. along County Road 3168; at 36-ft bridge over small stream; in NE. wingwall; standard tablet stamped "204 HLZ 1969"	629.506
1	48	4.55	Hickory Grove, 1.4 mi S. of post office, along County Road 2853, thence 0.4 mi SE. along County Road 3128, thence 2.7 mi S. along County Road 3143; at Abbie's Grocery Store; in concrete base for Texaco sign; standard tablet stamped "205 HLZ 1969" 89- GOOD	735.195
1	50	62.5	Hickory Grove, 1.4 mi S. of post office, along County Road 2853, thence 0.4 mi SE. along County Road 3128, thence 1.0 mi S. along County Road 3143; at Rowell's Grocery Store; in SW. corner of concrete slab in front of store; standard tablet stamped "206 HLZ 1969"	736.677
1	52	7.64	Charlotte, 6.7 mi SE. of; in SW. corner of intersection of Delta Road N. (County Road 2853) and County Road 3128 E. with Albemarle Road (State Highway 27); 60 ft N. of Esso Service Station; 46 ft NE. of metal post with Esso Sign; 11 ft SE. of post with traffic arrow sign on S. side of Albemarle Road; 1 ft SW. of S. curb of Road 3128; in E. side of yard for Esso Service Station across Road 3128 from Texaco Service Station; in concrete post flush with ground; North Carolina Geodetic Survey standard traverse disk stamped "LAWYERS 2 1968"	781.092
1	54	9.19	Hickory Grove; at Sinclair Gulf Service Station; in S. end of gas pump base; standard tablet stamped "207 HLZ 1969"	790.700
1	56	10.17	Hickory Grove, 0.8 mi N. of Hickory Grove Methodist Church, along Road 2824; 68 ft ENE. of, and about 5.0 ft lower than junction of County Roads 3008 and 2824; 0.5 ft W. of witness sign; in concrete post projecting 0.2 ft; standard tablet stamped "208 HLZ 1969"	725.944

1969

LINE 6.

Feet

By H. L. Zohn, Jr., 1969; Book AV 1558

1	65	0.00	"N 73 1934 721.022" (NGS) (Also in line 4)	721.016
1	66	1.33	Matthews, 1.3 mi E. of post office, along State Highway 51; at Matthews' Texaco Station; in S. end of gas pump base at SE. side of station; standard tablet stamped "209 HLZ 1969" <u>(Tied by NGS, 1971)</u> NOT FOUND 3/07	766.580
1	69	2.94	Matthews, 2.9 mi E. and NE. of post office, along State Highway 51; at Sustar's Esso Service Station; in SE. end of gas pump base; standard tablet stamped "210 HLZ 1969"	784.157
1	72	4.47	Matthews, 2.9 mi E. and NE. of post office, along State Highway 51, thence 0.6 mi E. along County Road 3174, thence 0.9 mi ENE. along County Road 3125; on right-of-way of single pole powerline; 40 ft W. of, and about 0.5 ft higher than centerline of rd. opposite; 0.5 mi SE. of witness sign; in concrete post projecting 0.2 ft; standard tablet stamped "211 HLZ 1969"	671.586
1	75	6.04	Mint Hill, 1.8 mi S. of junction of County Road 1004 and State Highway 218, along Road 1004; 50 ft SW. of, and about 1.0 ft lower than junction of County Roads 1004 and 3128; 0.5 ft E. of witness sign; in concrete post projecting 0.2 ft. standard tablet stamped "212 HLZ 1969"	703.780
1	77	7.44	Mint Hill, 0.3 mi S. of junction of County Road 1004 and State Highway 218, along County Road 1004; at Philadelphia Presbyterian Church; at S. entrance to church; in E. end of bottom step; standard tablet stamped "213 HLZ 1969"	780.289
2	7	9.22	Mint Hill, 0.6 mi NE. of post office, along State Highway 51, thence 0.9 mi E. along State Highway 218, thence 0.7 mi NE. along County Road 3109; 41 ft ESE. of, and 3.0 ft lower than intersection of Road 3109 and dirt rd. SW.; 1.0 ft NNW. of witness sign; in concrete post projecting 0.3 ft above ground; standard tablet stamped "214 HLZ 1969"	712.877
2	10	10.99	Mint Hill, 0.6 mi NE. of post office, along State Highway 51, thence 0.9 mi E. along State Highway 218, thence 2.0 mi NE. along County Road 3109, thence 0.4 mi N. along County Road 3110; in N. end of *second step of main entrance to Arlington Baptist Church; standard tablet stamped "215 HLZ 1969" Reset -702.619-1985	701.2

NGVD 29
Elevations

good 10/00 TRW

* Steps removed. Disk reset into a post at corner of cemetery
See Miscellaneous Vertical recoveries.

LINE 6 (Cont'd.)Feet

2	12	12.29	Reference mark No. 2; 95 ft SE. of disk; 51 ft ESE. of NE. corner of Allen Service Station; 42 ft SSE. of most easterly of four oak trees; 18 ft NW. of centerline of State Highway 27; in concrete post; NGS standard reference mark disk stamped "ALLEN NO 2 1933"	773.683
2	13	12.32	Allen, 13.0 mi E. of Charlotte, along State Highway 27; 1.0 mi SW. of Cabarrus-Mecklenburg County line; 40 ft W. of nearest of four large oak trees; 26 ft NW. of Allen Service Station; 16 ft SSE. of corner of old barn; on N. side of hwy. opposite railway station; in concrete post; NGS standard triangulation station disk stamped "ALLEN 1933"	775.285
2	14	12.35	Reference mark No. 1; in small peach orchard; in back of white house; 109 ft NE. of disk; 44 ft N. of most northerly of four oak trees; 29 ft W. of pump; 16 ft NW. of edge of porch; in concrete post; NGS standard reference mark disk stamped "ALLEN NO 1 1933"	773.818
2	16	13.83	"95 JAS 1966 727" (Described in line 2)	726.567

LINE 7.

By H. L. Zohn, Jr., 1969; Book AV 1558

2	25	0.00	"212 HLZ 1969" (Described in line 5)	703.780
2	26	0.91	Reference mark No. 3; 73 ft NW. of disk; 21 ft SW. of centerline of rd.; 17 ft SE. of 14-in. red oak tree; on strip of land between rd. and orchard fence; NGS standard reference mark disk stamped "MECKUN NO 3 1933"	703.981
2	27	0.92	Matthews, 5.5 mi NE. of; from Philadelphia Church in Mint Hill; 1.4 mi S. along graveled rd.; keep straight ahead where rd. comes in from right and continue 0.6 mi to creek bridge, thence 0.4 mi to triangular grass plot with post of mail boxes at T-rd.; 27 paces WSW. of mail boxes; 23 ft SW. of centerline of rd.; 9 ft NE. of orchard wire fence; 5 paces NW. of fence corner; on strip of land between rd. and orchard fence; NGS standard triangulation station disk stamped "MECKUN 1933"	702.553

LINE 7 (Cont'd.)Feet

2	29	2.47	Mint Hill, 4.3 mi S. and SE. of junction of County Road 1004 and State Highway 218, along Road 1004; 41 ft NE. of, and 2.0 ft higher than junction of Road 1004 and dirt rd. S.; 10 ft S. of witness sign; in concrete post projecting 0.2 ft; standard tablet stamped "218 HLZ 1969"	N/F 9/2000 TRW	650.466
2	31	4.18	Mint Hill, 6.0 mi S. and SE. of junction of County Road 1004 and State Highway 218, along Road 1004; 15 ft NE. of, and level with centerline of rd. opposite; at 49-ft concrete culvert for Goose Creek; in NW. end; standard tablet stamped "217 HLZ 1969"	Good 9/00 TRW	540.871
2	34	5.65	Fairview, 2.4 mi S. of Fairview School, along U.S. Highway 601, thence 1.4 mi W. along County Road 1004; at 30-ft bridge over N. fork of Crooked Creek; in NW. wingwall; standard tablet stamped "216 HLZ 1969"		574.689
2	37	7.09	"195 HLZ 1969" (Described in line 3)		618.900

LINE 8.

By H. L. Zohn, Jr., 1969; Book AV 1558

3	5	0.60	"197 HLZ 1969" (Described in line 3)		541.179
3	7	1.63	Fairview, 1.7 mi E. of junction of U.S. Highway 601 and State Highway 218, along Highway 218; 20 ft N. of, and about 2.5 ft lower than centerline of hwy. opposite; at 10-ft concrete culvert; in E. end; standard tablet stamped "233 HLZ 1969"		553.652

LINE 9.

By H. L. Zohn, Jr., 1969, Book AV 1558

7	13	4.81	U.E., at Wesley Chapel; 300 ft S. of junction of State Highway 84 and County Road 1162, along Road 1162; 19 ft W. of, and about level with centerline of rd. opposite; on N. end of 3-ft culvert; chiseled square		617.59
7	15	5.63	Wesley Chapel, 0.8 mi N. of Elementary School, along County Road 1162; 110 ft NNW. of, and about 4.0 ft higher than junction of County Roads 1162 and 1355; 0.3 ft S. of witness sign; in concrete post projecting 0.4 ft; standard tablet stamped "310 HLZ 1969"		631.403

LINE 9 (Cont'd.)Feet

7	17	6.77	Bakers, 2.1 mi W. of Shiloh School, along County Road 1009, thence 1.3 mi SW. along County Road 1377; at entrance to Pinewood Forest housing development; 62 ft E. of, and 1.5 ft higher than junction of County Road 1377 and dirt rd. SE.; in concrete post projecting 0.2 ft.; standard tablet stamped "311 HLZ 1969"	641.493
7	19	8.07	Bakers, 2.1 mi W. of Shiloh School, along County Road 1009; at Sun Valley High School; at S. entrance to gym; in W. end of bottom step; standard tablet stamped "312 HLZ 1969 RESET 1975" (Unchecked reset)	668.932
7	21	9.81	Reference mark No. 1; 0.2 mi SW. of station; 200 ft SW. of railway; 170 ft SW. of second pole E. of rd. and railway crossing; 5 ft NE. of centerline of rd.; in concrete post; NGS standard reference mark disk stamped "RED HILL NO 1 1934"	679.693
7	22	10.15	Monroe; from courthouse; 8.2 mi along U.S. Highway 74, thence turn right and proceed 0.8 mi to Seaboard Coast Line Railway, thence 0.2 mi to top of hill (known locally as "Red Hill") which is about 0.2 mi NE. of railway; in concrete post; NGS standard triangulation station disk stamped "RED HILL 1934"	721.229
7	23	10.17	Reference mark No. 3; 134 ft NW. of station; in edge of woods on NW. side of hill; in concrete post; NGS standard reference mark disk stamped "RED HILL NO 3 1934"	715.816
7	24	10.21	Reference mark No. 2; 127 ft W. of station; in edge of woods on W. side of hill; in concrete post; NGS standard reference mark disk stamped "RED HILL NO 2 1934"	716.626
7	26	11.72	"L 73 1934 696.980" (NGS)	696.984

LINE 10.NGVD 29
Elevations

By H. L. Zohn, Jr., 1969; Book AV 1558

7	31	0.00	U.E., chiseled square (Described in line 8)	617.59
7	31	0.80	Wesley Chapel, 0.7 mi W. of Elementary School, along State Highway 84; at 36-ft culvert for small stream; 16 ft SE. of, and about level with centerline of hwy. opposite; in NE. end of culvert; standard tablet stamped "313 HLZ 1969"	567.458

567.458

LINE 10 (Cont'd.)Feet

7	33	1.80	Wesley Chapel, 1.7 mi W. of Elementary School, along State Highway 84; 125 ft NW. of, and about 3.0 ft lower than junction of Highway 84 and County Road 1338; 0.3 ft S. of witness sign; in concrete post projecting 0.2 ft; standard tablet stamped "314 HLZ 1969"	616.845
7	36	3.47	Wesley Chapel, 3.4 mi W. of Elementary School, along State Highway 84; 62 ft SW. of, and level with junction of Highway 84 and County Road 1341; 0.3 ft N. of witness sign; in concrete post projecting 0.4 ft; standard tablet stamped "315 HLZ 1969"	640.465
7	38	4.69	Weddington, 1.0 mi E. of junction of State Highways 84 and 16, along Highway 84; at 9-ft concrete culvert for small stream; 31 ft SW. of, and about 4.0 ft lower than centerline of hwy. opposite; in NW. end of culvert; standard tablet stamped "316 HLZ 1969" <i>good 9/00 TRW</i>	625.328

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Elevations