

TENNESSEE VALLEY AUTHORITY
DIVISION OF WATER CONTROL PLANNING
MAPS AND SURVEYS BRANCH

SURVEY CONTROL DATA

DUCKTOWN, TENNESSEE
QUADRANGLE 133

EXTENT OF QUADRANGLE
LATITUDE: 35°00' TO 35°15'
LONGITUDE: 84°15' TO 84°30'

BULLETIN TVA-MS-133-C

PRICE \$1.00

CHATTANOOGA, TENNESSEE
MARCH 1966

FOR SALE BY THE MAPS AND SURVEYS BRANCH, TENNESSEE VALLEY AUTHORITY, CHATTANOOGA, TENNESSEE
EXTRA COPIES OF SURVEY CONTROL MARKERS LOCATION MAP . . . 20 CENTS

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SURVEY CONTROL DATA IN QUADRANGLE 133

A 2 (TVA, 1947; Polk County, Tennessee)

Located about 400 feet northeast of Apalachia powerhouse and about 15 feet east of railroad. A standard tablet stamped "A 2 1947" and set in concrete under overhanging rock, "870.285" painted on rock.
ELEVATION: 870.28 feet (T-3)

AKW 270 (TVA, 1941; Cherokee County, North Carolina)

Located 1.5 miles east of Fanner, 1.2 miles south of Hiwassee River, 150 feet west of woods road, 200 feet south of center line gap, 300 feet north of Y-road intersection in gap, on top of knoll on center line ridge, 5.72 feet N 40° E of 3-inch hickory stump, 5.55 feet N 70° E of 12-inch black oak, and 6.04 feet S 50° E of 3-inch pine. Station is an unstamped angle iron.
GRID POSITION (North Carolina): X = 418,879.2; Y = 551,353.2 (T-4)

A LRH 1 (TVA, 1947; Cherokee County, North Carolina)

Located at Apalachia Dam, on top of dam, set on dam axis, on south end, and about 40 feet north of rock abutment. A standard tablet stamped "2.0 D.S. 14+80 A LRH 1" and set in concrete.
GEODETTIC POSITION: Lat. = 35°10'00.37"; Long. = 84°17'45.13" (T-3)
GRID POSITION (Tennessee): X = 2,509,345.5; Y = 286,467.5 (T-3)
Grid Azimuth to A LRH 2 (distance 1113.0 feet): 197°59'50".
GRID POSITION (North Carolina): X = 418,019.0; Y = 557,816.0 (T-3)
ELEVATION: 1287.90 feet (T-3)

A LRH 2 (TVA, 1947; Cherokee County, North Carolina)

Located at Apalachia Dam, on top of dam, set on dam axis, on north end, and about 40 feet south of riprap. A standard TVA tablet stamped "2.0 D.S. 3+67 A LRH 2" and set in concrete.
GEODETTIC POSITION: Lat. = 35°10'10.777"; Long. = 84°17'40.76" (T-3)
GRID POSITION (Tennessee): X = 2,509,690.3; Y = 287,526.0 (T-3)
Grid Azimuth to A LRH 1 (distance 1113.0 feet): 17°59'50".
GRID POSITION (North Carolina): X = 418,437.4; Y = 558,847.3 (T-3)
ELEVATION: 1287.93 feet (T-3)

A LRH 4 (TVA, 1947; Cherokee County, North Carolina)

Located at Apalachia Dam, in curb at west end of parking lot, 75 feet downstream from dam, and 50 feet west of substation. A standard TVA property marker with the words "Property Marker" ground off and stamped "US TVA A LRH 4" set in concrete.
Reference Mark 1: 46.0 feet Southwest to painted cross on penstock pier.
Reference Mark 2: 57.0 feet Southwest to painted cross on penstock pier.
Reference Mark 3: 35.5 feet Northwest to washer on power pole No. 81.
GEODETTIC POSITION: Lat. = 35°10'02.13"; Long. = 84°17'46.87" (T-3)
GRID POSITION (Tennessee): X = 2,509,198.0; Y = 286,643.2 (T-3)
GRID POSITION (North Carolina): X = 417,884.3; Y = 558,001.4 (T-3)
ELEVATION: 1204.60 feet (T-3)

A LRH 5 (TVA, 1947; Polk County, Tennessee)

Located about 135 feet south of Apalachia powerhouse, set in center line of concrete sidewalk, approximately 5 feet north of entrance gate to Apalachia powerhouse, about 14 feet from center line of access road, about 15 feet from east end of suspension footbridge, and about 42 feet west of flag pole, 8.8 feet northeast of north end of beam under bridge, 5.2 feet northwest of west gate post, and 12.5 feet northwest of center of gate latch in center line of road. A standard TVA property marker with the words "Property Marker" ground off and stamped "A LRH 5".
GRID POSITION (Tennessee): X = 2,466,636.7; Y = 291,439.4 (T-3)
Grid Azimuth to A LRH 6 (distance 375.1 feet): 118°44'10".
Grid Azimuth to M 67 23 (distance 402.4 feet): 17°38'30".
ELEVATION: 873.24 feet (T-3)*
*NOTE: There is evidence point may have settled 0.2 foot.

A LRH 6 (TVA, 1947; Polk County, Tennessee)

Located approximately 0.1 mile southwest of Apalachia powerhouse, at dead end of gravel road up right bank of Hiwassee River from Reliance, Tennessee, on property of US-TVA, set on right bank of Hiwassee River under west end of suspension footbridge, approximately 50 feet west of water's edge, set between north and south footings on east edge of tower, 6.8 feet northwest from northeast edge of concrete form under south side of bridge, 14.8 feet east of center of "I" beam in center of tower, and 6.2 feet southwest of southeast corner of concrete form under north side of bridge. A standard TVA property marker with the words "Property Marker" ground off and stamped "A LRH 6". Steel post with control marker sign set 1 foot northwest of monument.
GRID POSITION (Tennessee): X = 2,466,307.8; Y = 291,619.8 (T-3)
Grid Azimuth to A LRH 5 (distance 375.1 feet): 298°44'10".
ELEVATION: 863.75 feet (T-3)

A LRH 7 (TVA, 1947; Polk County, Tennessee)

Located approximately 100 feet southeast of Apalachia powerhouse, on the property of US-TVA, set in center line of penstock on top of the concrete junction of penstock and tunnel, 12.7 feet northeast of corner rail post at southwest corner of concrete junction, and 12.3 feet southeast of corner rail post at northwest corner of concrete junction. A standard TVA property marker with the words "Property Marker" ground off and stamped "A LRH 7".
GRID POSITION (Tennessee): X = 2,467,022.7; Y = 291,580.1 (T-3)
Grid Azimuth to A LRH 5 (distance 410.8 feet): 69°57'50".
ELEVATION: 1072.46 feet (T-3)

APA (TVA, 1941; Cherokee County, North Carolina)

Located about 1.3 miles northeast of Fanner. To reach from Fanner post office, go northeast along farm road which is on north side of Louisville and Nashville Railroad, a distance of 1.2 miles to home of A. Chadwick, turn left up hollow and go 0.2 mile to angle point in TVA transmission line, 2.10 feet N 10° W of 12-inch pine, 5.40 feet S 30° W of 8-inch pine stump, and 20.50 feet S 40° E of 8-inch pine. Station is a standard TVA tablet stamped "APA 1941" and set in concrete monument on highest point of knoll.
GEODETTIC POSITION: Lat. = 35°09'48.748"; Long. = 84°17'45.499" (T-3)

To Station	Geodetic Azimuths		Distances	
	Azimuth	Back Azimuth	Log. Meters	Miles
Little Frog F.T.	55°44'40.9"	235°40'23.7"	4.136635	8.5
Bean F.T.	97 35 48.4	277 26 44.4	4.382014	15.0
Waucheesi F.T.	209 30 56.8	29 33 38.1	4.156807	8.9
Beaverdam F.T.	238 20 09.2	58 26 03.5	4.261453	11.3

GRID POSITION (North Carolina): X = 417,925.7; Y = 556,044.7 (T-3)
GRID POSITION (Tennessee): X = 2,509,335.5; Y = 285,292.2 (T-3)

ASR 1 (TVA, 1941; Cherokee County, North Carolina)

Located approximately 1500 feet upstream from Apalachia dam site on left bank, approximately 400 feet west of large ravine, 200 feet downstream from where contour turns up hollow, 4.8 feet north of base of triple 6-inch Spanish oak, 8.8 feet southeast of 3-inch locust, and 7 feet east of 3-inch dogwood. A standard TVA tablet stamped "ASR 1 1941" and set in concrete monument. Steel post with control marker sign set 1.3 feet southwest of monument.
GRID POSITION (North Carolina): X = 419,997.9; Y = 557,103.0 (T-4)
Grid Azimuth to ASR 2 (distance 1024.6 feet): 203°21'10".
ELEVATION: 1285.1 feet (T-4)

ASR 2 (TVA, 1941; Cherokee County, North Carolina)

Located on right bank of Hiwassee River, approximately 1900 feet east of Apalachia Dam, 2500 feet east of North Carolina State line, 400 feet downstream from center line of hollow, opposite mouth of Laurel Branch, about 750 feet downstream on slope, 14.0 feet south of 14-inch pine, and 14.0 feet southwest of 8-inch pine. A standard TVA tablet stamped "ASR 2 1941" and set on sloping outcrop, about 5 feet above pool contour. Steel post with control marker sign set 1.5 feet northwest of tablet due to outcrop.
GRID POSITION (North Carolina): X = 420,404.1; Y = 558,043.5 (T-4)
Grid Azimuth to ASR 1 (distance 1024.6 feet): 23°21'10".
ELEVATION: 1286.4 feet (T-4)

ASR 3 (TVA, 1941; Cherokee County, North Carolina)

Located approximately 1000 feet downstream from large ravine, left bank on point of ridge, 200 feet downstream from where contour turns up hollow, about 175 feet downstream from navigation sign No. 1, about 50 feet upstream from large boulder extending into lake, 6.9 feet from 30-inch oak (slope distance), 16.8 feet from 6-inch hickory (slope distance), and 13.9 feet from 10-inch maple (slope distance). A standard TVA tablet stamped "ASR 3 1941" and set in concrete monument. Steel post with control marker sign set 1 foot south of monument.
GRID POSITION (North Carolina): X = 423,307.2; Y = 556,571.7 (T-4)
Grid Azimuth to ASR 4 (distance 1188.0 feet): 183°20'50".
ELEVATION: 1286.0 feet (T-4)

ASR 4 (TVA, 1941; Cherokee County, North Carolina)

Located on right bank, approximately 1200 feet upstream from large ravine, midway between two small ravines on point, about 300 feet upstream from point where contour turns up main hollow. Monument located on very gently sloping ridge in thicket, 5 feet south of remains of old rail fence, 19.5 feet southeast of 10-inch pine, 20.0 feet southwest of 10-inch hickory, and 4.4 feet northeast of 3-inch pine. A standard TVA tablet stamped "ASR 4 1941" and set in concrete monument, flush with ground. Steel post with control marker sign set 1 foot north of monument.
GRID POSITION (North Carolina): X = 423,376.6; Y = 557,758.9 (T-4)
Grid Azimuth to ASR 3 (distance 1188.0 feet): 3°20'50".
ELEVATION: 1284.7 feet (T-4)

ASR 5 (TVA, 1941; Cherokee County, North Carolina)

Located on left bank, approximately 1000 feet upstream from large deep draw on point of ridge midway between two small ravines, on last point on main lake before starting into hollow, about 25 feet east of contour, 5.5 feet north of 14-inch dead oak, 31.5 feet southwest of 14-inch Spanish oak, and 21.1 feet northwest of 5-inch pine. A standard TVA tablet stamped "ASR 5 1941" and set in concrete monument, flush with the ground. Steel post with control marker sign set 1 foot southeast of monument.
GRID POSITION (North Carolina): X = 427,805.0; Y = 558,505.5 (T-4)
Grid Azimuth to ASR 6 (distance 784.3 feet): 144°44'10".
ELEVATION: 1285.4 feet (T-4)

ASR 6 (TVA, 1941; Cherokee County, North Carolina)

Located on right bank, approximately 400 feet upstream from large boulder, approximately 500 feet upstream from large ravine which is situated on left bank, in thicket about 20 feet northwest of contour, 14.9 feet from 8-inch pine, 16.8 feet from 3-inch hickory, and 28.3 feet from 10-inch hickory. A standard TVA tablet stamped "ASR 6 1941" and set in concrete monument, flush with ground. Steel post with control marker sign set 1 foot northwest of monument.
GRID POSITION (North Carolina): X = 427,352.2; Y = 559,145.9 (T-4)
Grid Azimuth to ASR 5 (distance 784.3 feet): 324°44'10".
ELEVATION: 1284.5 feet (T-4)

ASR 7 (TVA, 1941; Cherokee County, North Carolina)

Located on left bank, approximately 1500 feet upstream from large ravine, approximately 1000 feet downstream from large bend in left bank of river, on point midway between two small ravines, on ridge having lone 36-inch forked white pine, downstream about 50 feet from this pine, 9 feet northwest of 6-inch double white oak, 21.5 feet northwest of 14-inch maple, and 12.4 feet east of 8-inch pine. A standard TVA tablet stamped "ASR 7 1941" and set in concrete monument, flush with the ground. Steel post with control marker sign set 1 foot southeast of monument.
GRID POSITION (North Carolina): X = 431,388.6; Y = 560,165.1 (T-4)
Grid Azimuth to ASR 8 (distance 1037.8 feet): 153°46'50".
ELEVATION: 1284.7 feet (T-4)

ASR 8 (TVA, 1941; Cherokee County, North Carolina)

Located on right bank, west of west edge of McNabb Island, on Apalachia dam site road, 2-1/2 miles east of dam site, 625 feet east of road in hollow, 2.1 miles southwest of Violet, 20.3 feet southwest of 20-inch red oak, 9.2 feet east of 6-inch hickory, and 3.9 feet southeast of 4-inch hickory. A standard TVA tablet stamped "ASR 8 1941" and set in flat granite rock outcrop. Steel post with control marker sign set 3.0 feet northwest of monument, due to rock.
GRID POSITION (North Carolina): X = 430,930.1; Y = 561,096.1 (T-4)
Grid Azimuth to ASR 7 (distance 1037.8 feet): 333°46'50".
ELEVATION: 1286.0 feet (T-4)

EM 1133.1 (USGS, 1934; Polk County, Tennessee)

Located 0.7 mile east of Ocoee No. 2 Dam, in top of south wing wall of east concrete abutment of wooden bridge over creek. A square cut, painted on wing wall "EM 1133.1".
ELEVATION: 1132.603 feet or 345.218 meters (T-2)

EM 1134.0 (USGS, 1934; Polk County, Tennessee)

Located 75 feet northwest of north end of Ocoee Dam No. 2, and 10 feet north of road. A square cut in rock ledge, painted on rock "EM 1134.0".
NOTE: Searched for but not recovered, June 1957.
ELEVATION: 1133.551 feet or 345.507 meters (T-2)

EM 1402.1 (USGS, 1934; Polk County, Tennessee)
 Located 5.6 miles southwest of McFarland, 50 feet west of rock covered culverts over Big Lost Creek, and 25 feet north of road. A square cut in rock ledge, painted on rock "EM 1402.1".
 ELEVATION: 1401.3 feet (G-4)

EM 1450.1 (USGS, 1934; Polk County, Tennessee)
 Located 2.3 miles north of Isabella Junction, 125 feet south of Milepost L 379, and 40 feet east of railroad track. A square cut, top of rock ledge, painted on rock "EM 1450.1".
 ELEVATION: 1449.334 feet or 441.758 meters (T-2)

EM 1475.3 (USGS, 1934; Polk County, Tennessee)
 Located 3.5 miles east of Ocoee No. 2 Dam, 0.7 mile west of Boyd Gap. A square cut on east end of north head wall of large concrete culvert over small creek, painted on culvert "EM 1475.3".
 ELEVATION: 1475.076 feet or 449.604 meters (T-2)

EM 1521.0 (USGS, 1934; Polk County, Tennessee)
 Located 0.8 mile east of Grassy Creek Church, 30 feet southeast of mill dam on Grassy Creek, 60 feet east of iron bridge, and 10 feet north of road. A square cut on rock ledge, painted on tree "EM 1521.0".
 ELEVATION: 1520.187 feet or 463.354 meters (T-2)

EM 1555.6 (USGS, 1934; Polk County, Tennessee)
 Located 0.7 miles east of Grassy Creek Church, 0.9 mile east of Tumbling Creek School, 50 feet southeast of Long Branch, and 10 feet northeast of road. A square cut in top of rock ledge, painted on rock "EM 1555.6".
 ELEVATION: 1554.771 feet or 473.895 meters (T-2)

EM 1560.5 (USGS, 1934; Polk County, Tennessee)
 Located 4.6 miles southwest of McFarland, 10 feet south of road, and 40 feet north of drain. A square cut in rock ledge, painted on rock "EM 1560.5".
 ELEVATION: 1559.7 feet (G-4)

EM 1626.1 (USGS, 1934; Cherokee County, North Carolina)
 Located 1.7 miles east of Liberty, 0.4 mile southwest of U. S. Highway 294 and Fields of the Wood, 100 feet east of wooden bridge over Camp Creek, and 75 feet west of residence, at road forks. A square cut, painted on rock "EM 1626.1" and set in top of limestone ledge.
 ELEVATION: 1625.4 feet (G-4)

EM 1712.6 (USGS, 1934; Polk County, Tennessee)
 Located 1.3 miles north of Angelico Gap, North Carolina, about 0.5 mile northeast of Little Baldy, on top of one of several low outcrops along right bank of creek, about 25 feet north of center line of a creek, about 300 feet northeast of dilapidated boxed house, about 125 feet north of center line of dirt road leading to brown asphalt siding house owned by Dale White, about 600 feet S 20° E of large two-story "L" shaped house, and 27 feet northeast of 6-inch maple tree. A square cut in top of outcropping ledge, painted on rock "EM 1712.6".
 NOTE: Searched for but not recovered, May 1957.
 ELEVATION: 1712.2 feet (G-4)

EM 1764.7 (USGS, 1933; Cherokee County, North Carolina)
 Located 1.1 miles west of Postell, North Carolina, 100 feet northwest of T-road south, at store of M. M. Ledford, and 50 feet northeast of road in top of limestone boulder. A square cut, painted on rock "EM 1764.7".
 ELEVATION: 1764.0 feet (G-4)

EM 2062.0 (USGS, 1934; Polk County, Tennessee)
 Located 1.4 miles west of Harbuck, on Kimsey Highway, and 15 feet north of road, at spring. A square cut in rock ledge, painted on rock "2062.0".
 ELEVATION: 2061.4 feet (G-4)

EM 2532.2 (USGS, 1934; Polk County, Tennessee)
 Located 2.2 miles west of Little Frog Mountain Fire Tower, along Kimsey Highway, and 15 feet south of road. A square cut in top of large rock, over spring, painted on rock "EM 2532.2".
 ELEVATION: 2531.7 feet (G-4)

EM 2686.2 (USGS, 1934; Polk County, Tennessee)
 Located 1.6 miles east of spur to Little Frog Mountain Lookout Tower, 15 feet north of drain, and 10 feet west of road. A square cut on rock edge, painted on rock "EM 2686.2".
 NOTE: Searched for but not recovered, June 1957.
 ELEVATION: 2685.8 feet (G-4)

EM 2813.6 (USGS, 1934; Polk County, Tennessee)
 Located 1 mile east of spur to Little Frog Mountain Lookout Tower, on north side of road, at trail crossing on Cold Spring Gap. A square cut in rock ledge, painted on rock "2813.6".
 NOTE: Searched for but not recovered, June 1957.
 ELEVATION: 2813.0 feet (G-4)

BUCK BALD (USFS, 1933; Polk County, Tennessee)
 Located on the highest summit of Buck Bald Mountain above the summit of Tellico Plains-Farmer road. A USFS standard concrete post marked "493-1933" in an old clearing.
 GEODETIC POSITION: Lat. = 35°12'11.65"; Long. = 84°19'26.33" (G-3)
 GRID POSITION (North Carolina): X = 410,341.4; Y = 571,517.5 (G-3)
 GRID POSITION (Tennessee): X = 2,500,717.2; Y = 299,593.8 (G-3)
 ELEVATION: 2348 feet (T-5)

BUCK BALD FIRE TOWER (USFS, ? ; Polk County, Tennessee)
 Located on the highest summit of Buck Bald Mountain above the summit of Tellico Plains-Farmer road. Chain distance from Buck Bald Triangulation Station to center line of Buck Bald Fire Tower = 20.83 feet N 58° W. Station is a fire tower.
 GRID POSITION (Tennessee): X = 2,500,699.6; Y = 299,605.0 (T-4)

CHC 1 (TVA, 1939; Polk County, Tennessee)
 Located 1.0 mile east of Ocoee Dam No. 2, 8.4 miles northwest of intersection of Highways 64 and 68, Ducktown, 150 feet north of Ocoee River, and 16 feet south of center line Highway 64. A standard TVA tablet stamped "EM CHC 1 1939" and set in center of headwall.

Reference Mark 1: 102 feet N 44° W to painted cross on rock.
 Reference Mark 2: 57 feet N 30° E to painted cross on rock.
 NOTE: Searched for but not recovered in March 1958.
 ELEVATION: 1141.264 feet or 347.858 meters (T-2)

CHC 2 (TVA, 1939; Polk County, Tennessee)
 Located 2.4 miles east of Ocoee Dam No. 2, 6.9 miles northwest of intersection of Highways 64 and 68, Ducktown, 100 feet north of Ocoee River, and 16 feet south of center line Highway 64. A standard TVA tablet stamped "EM CHC 2 1939" and set in southeast abutment wing of concrete bridge.
 Reference Mark 1: 26.6 feet S 15° E to painted cross on Telephone Pole No. 369.
 GRID POSITION (Tennessee): X = 2,460,310.0; Y = 249,825.1 (T-3)
 ELEVATION: 1230.273 feet or 374.988 meters (T-2)

CHC 3 (TVA, 1939; Polk County, Tennessee)
 Located 3.3 miles east of Ocoee No. 2, 6.0 miles northwest of intersection of Highways 64 and 68, Ducktown, 1000 feet east of Ocoee River, and 16.0 feet north of center line Highway 64. A tablet stamped "EM CHC 3 1939" and set in rock.
 ELEVATION: 1476.339 feet or 449.989 meters (T-2)

CHC 4 (TVA, 1939; Polk County, Tennessee)
 Located 4.6 miles east of Ocoee Dam No. 2, 4.8 miles west of intersection of Highways 64 and 68, Ducktown, 1.4 miles west of Brush Creek, and 18.0 feet south of center line Highway 64. A standard TVA tablet stamped "CHC 4 1939" and set in concrete monument.
 Reference Mark 1: 13.8 feet S 60° W to cross on 26-inch poplar.
 Reference Mark 2: 36.6 feet N 4° E to cross on rock.
 NOTE: Searched for but not recovered, June 1953 and 1957.
 ELEVATION: 1766.433 feet or 538.410 meters (T-2)

CHC 6 (TVA, 1939; Polk County, Tennessee)
 Located 7.1 miles east of Ocoee Dam No. 2, 1.9 miles east of Brush Creek, 1.7 miles west of intersection of Highways 64 and 68, 150 feet west of Louisville and Nashville Railroad, and 25 feet south of center line Highway 64. A standard TVA tablet stamped "EM CHC 6 1939" and set in center of headwall.
 Reference Mark 1: 63.4 feet N 75° E to cross on rock.
 Reference Mark 2: 72.1 feet S 45° W to cross on rock.
 ELEVATION: 1468.140 feet or 447.490 meters (T-2)

COPPER (TVA, 1940; Polk County, Tennessee)
 Located in the city limits of Copperhill, on top of a bare hill, about 2000 feet N 55° E from West Chimney, about 2500 feet N 35° E from East Chimney, and 135 feet S 70° W from Telephone Pole No. 1889. Station is a 3-inch round pipe with cap on it, stamped "COPPER", about 18 inches above ground.
 GEODETIC POSITION: Lat. = 35°00'01.11"; Long. = 84°22'23.58" (T-4)
 GRID POSITION (Tennessee): X = 2,487,237.1; Y = 225,493.6 (T-4)
 GRID POSITION (Georgia West): X = 438,143.4; Y = 1,819,092.0 (T-4)
 ELEVATION: 1658 feet (T-5)

DN 10 (TVA, 1941; Polk County, Tennessee)
 Located on right side of Rough Creek, 18 feet from center line creek, about 3.5 feet above normal water surface, about 150 feet upstream from proposed tunnel line, and 3.5 feet southwest of 1-1/2-inch embedded anchor ring. A standard TVA tablet stamped "DN 10 1941" and set in top of large rock outcrop.
 GRID POSITION (Tennessee): X = 2,457,603.2; Y = 242,310.2 (T-3)
 ELEVATION: 1390.348 feet or 423.779 meters (T-2)

DN 27 (TVA, 1941; Polk County, Tennessee)
 Located about 1000 feet west of Ocoee 3 tunnel and transmission line, on left side of Rough Creek, 35.75 feet N 75° W of double maple, and 19.50 feet S 10° W of 4-inch oak. A standard TVA tablet stamped "DN 27 1941" and set in rock.
 NOTE: Searched for but not recovered, June 1957.
 GRID POSITION (Tennessee): X = 2,455,141.2; Y = 244,620.4 (T-3)
 Grid Azimuth to DN 28 (distance 211.0 feet): 31°38'10".
 ELEVATION: 1466.697 feet or 447.050 meters (T-2)

DN 28 (TVA, 1941; Polk County, Tennessee)
 Located near Ocoee No. 3 tunnel and transmission line, on right side of Rough Creek, at approximately 30 feet above bridge. A standard TVA tablet stamped "DN 28 1941" and set in rock.
 NOTE: Searched for but not recovered, June 1957.
 GRID POSITION (Tennessee): X = 2,455,030.7; Y = 244,440.9 (T-3)
 Grid Azimuth to DN 27 (distance 211.0 feet): 211°38'10".
 Grid Azimuth to DN 29 (distance 285.7 feet): 156°40'00".
 ELEVATION: 1470.647 feet or 448.254 meters (T-2)

DN 29 (TVA, 1941; Polk County, Tennessee)
 Located near Ocoee No. 3 tunnel and transmission line, 300 feet north of bridge over Rough Creek, on east side of road, 10.00 feet S 15° E of 3-inch oak, and 7.71 feet S 29° W of 6-inch oak. A standard TVA tablet stamped "DN 29 1941" and set in concrete monument.
 NOTE: Searched for but not recovered, June 1957.
 GRID POSITION (Tennessee): X = 2,454,917.6; Y = 244,703.3 (T-3)
 Grid Azimuth to DN 28 (distance 285.7 feet): 336°40'00".
 ELEVATION: 1492.917 feet or 455.042 meters (T-2)

DN 86 (TVA, 1941; Polk County, Tennessee)
 Located 1.0 mile west of Ducktown, 0.3 mile south of Ducktown Station, 21.5 feet east of center line of Louisville and Nashville railroad track, 12.0 feet north of railroad crossing, 10.70 feet S 30° W of crossing post, 10.10 feet east of corner concrete post, and 40.05 feet north of telephone pole. A standard TVA tablet stamped "DN 86 1941" and set in concrete monument.
 GRID POSITION (Tennessee): X = 2,478,173.6; Y = 238,139.8 (T-3)
 Grid Azimuth to Q 16 (distance 2104.2 feet): 174°45'10".

DN 90 (TVA, 1941; Polk County, Tennessee)
 Located 1.7 miles southwest of Ducktown, 175 feet south of Highway 64, 60 feet south of Louisville and Nashville Railroad trestle overpass at Highway No. 64, 18.23 feet east of nail in railroad tie, 16.00 feet N 20° W of telephone pole, and 34.80 feet south of railroad sign 25/25. A standard TVA tablet stamped "DN 90 1941" and set in concrete monument.
 GRID POSITION (Tennessee): X = 2,476,810.9; Y = 235,378.5 (T-3)
 Grid Azimuth to DN 91 (distance 1850.2 feet): 29°10'30".

DN 91 (TVA, 1941; Polk County, Tennessee)

Located 2.0 miles southwest of Ducktown, 0.3 mile south of Highway 64, about 25 feet east of center line of Louisville and Nashville Railroad track, about 400 feet south of transmission line, 12.55 feet N 40° E of concrete fence post, and 6.75 feet south of concrete fence post. A standard TVA tablet stamped "DN 91 1941" and set in concrete monument.

GRID POSITION (Tennessee): X = 2,475,908.8; Y = 233,763.1 (T-3)

Grid Azimuth to DN 90 (distance 1850.2 feet): 209°10'30".

Grid Azimuth to DN 92 (distance 801.2 feet): 72°09'30".

ELEVATION: 1471.17 feet (T-3)

DN 92 (TVA, 1941; Polk County, Tennessee)

Located about 2.0 miles southwest of Ducktown, about 20 feet south of center line of Louisville and Nashville Railroad track, about 200 feet southwest of trestle, 64.30 feet N 50° E of telephone pole, and 15.25 feet north of concrete post. A standard TVA tablet stamped "DN 92 1941" and set in concrete monument.

Reference Mark 1: 19.80 feet North to nail in railroad tie.

GRID POSITION (Tennessee): X = 2,475,146.0; Y = 233,517.6 (T-3)

Grid Azimuth to DN 91 (distance 801.2 feet): 252°09'30".

ELEVATION: 1457.95 feet (T-3)

DN 101 (TVA, 1941; Polk County, Tennessee)

Located about 500 feet west of Rogers Bridge, about 2.4 miles northwest of Copperhill, about 35 feet south of Louisville and Nashville Railroad track, 11.05 feet north of telephone pole, and 62.70 feet south of 4-inch wild cherry. A standard TVA tablet stamped "DN 101 1941" and set in concrete monument.

GRID POSITION (Tennessee): X = 2,476,776.4; Y = 226,632.9 (T-3)

Grid Azimuth to R 16 (distance 378.3 feet): 266°08'40".

ELEVATION: 1445.81 feet (T-3)

DN 106 (TVA, 1941; Polk County, Tennessee)

Located about 1.9 miles northwest of Copperhill, about 700 feet southeast of McHarg, about 15 feet east of center line of Louisville and Nashville Railroad track, about 500 feet south of trestle No. 72, 36.90 feet west of concrete fence post, and 39.25 feet northwest of concrete fence post. A standard TVA tablet stamped "DN 106 1941" and set in concrete monument.

Reference Mark 1: 11.25 feet West to nail in railroad tie.

NOTE: Searched for but not recovered, June 1957.

GRID POSITION (Tennessee): X = 2,479,697.8; Y = 226,031.9 (T-3)

Grid Azimuth to DN 107 (distance 1278.7 feet): 347°37'50".

ELEVATION: 1458.46 feet (T-3)

DUCKTOWN (USGS, 1907; Polk County, Tennessee)

Located on a high cleared knob, 0.5 mile east of Ducktown station, and 2 miles northwest from Ducktown village. An aluminum tablet cemented in center of top of marble post, 30- by 8- by 8-inch, set in ground.

NOTE: The original station mark stone had been pulled up but was found and replaced. Point was re-angled in field in 1934. Position given is of reset tablet

GEODETIC POSITION: Lat. = 35°02'34.603"; Long. = 84°23'39.761" (G-3)

To Station	Geodetic Azimuths		Distances	
	Azimuths	Back Azimuths	Log. Meters	Miles
Hemp Top	55°21'31.2"	235°17'12.0"	4.144040	8.7
Little Frog	157 26 12.7	337 25 19.4	3.786896	3.8
Pack	265 30 30.2	85 34 13.9	3.995843	6.2
Piney	310 10 23.6	130 14 37.8	4.167763	9.1
Godfrey	351 43 13.8	171 44 03.7	4.185682	9.5

GRID POSITION (Tennessee): X = 2,480,644.6; Y = 240,905.8 (G-3)

ELEVATION: 2051.6 feet (T-4)

E 1 (USED, 1925; Polk County, Tennessee)

Located 0.5 mile east of Apalachia, 30 feet south of railroad trestle, and 20 feet east of track. An iron pipe set in concrete.

NOTE: Searched for but not recovered, January 1951.

ELEVATION: 1175.70 feet (G-3)

E 2 (USED, 1925; Polk County, Tennessee)

Located near Apalachia, on left bank of Hiwassee River, middle monument of base line, 290 feet above north end of trestle, 130 feet from river, near track opposite side from river. An iron pipe in concrete.

ELEVATION: 1181.14 feet (G-3)

E 3 (USED, 1925; Polk County, Tennessee)

Located near Apalachia, 560 feet above middle monument, upstream end of base line, 100 feet from Hiwassee River, on river side and near track. An iron pipe in concrete.

ELEVATION: 1187.54 feet (G-3)

F 1 (USED, 1925; Polk County, Tennessee)

Located near Unicoi, on right bank, 260 feet from Hiwassee River, and about 600 feet due north of mouth of Wolf Creek. An iron pipe.

ELEVATION: 1115.8 feet (G-4)

F 2 (USED, 1925; Polk County, Tennessee)

Located near Unicoi, left bank downstream end of base line, 90 feet from northeast end of railroad bridge over Wolf Creek, 140 feet from river, and 15 feet on opposite side of railroad from river. An iron pipe.

ELEVATION: 987.64 feet (G-3)

F 3 (USED, 1925; Polk County, Tennessee)

Located near Unicoi, upstream end of base line, 800 feet from downstream end, 45 feet from river, on lower side of track. An iron pipe.

ELEVATION: 995.73 feet (G-3)

FARNER 1 (USGS, 1934; Cherokee County, North Carolina)

Located 5.8 miles east of Copperhill. To reach from railroad crossing at Isabella, follow Murphy road 7.9 miles to fork, thence right 0.3 mile to dim road left through woods, follow wood road to end and walk about 0.4 mile east up ridge to flag. Station is drill hole in rock.

NOTE: Searched for but not recovered in 1953.

GEODETIC POSITION: Lat. = 35°00'06.060"; Long. = 84°16'50.275" (G-3)

To Station	Geodetic Azimuths		Distances	
	Azimuths	Back Azimuths	Log. Meters	Miles
Godfrey	37°41'53.6"	217°38'48.8"	4.126757	8.3
Hemp Top	81 21 05.9	261 12 52.0	4.344427	13.7
Piney	350 09 08.6	170 09 27.8	3.698592	3.1

GRID POSITION (Georgia West): X = 465,870.6; Y = 1,819,547.5 (G-3)

FS 283 (USFS, 1930; Polk County, Tennessee)

Located 0.95 mile northwest of Springtown, midway between Smith Branch and Spring Creek, 10 feet south of center line of road, and 3.5 feet above center line of road. A USFS tablet.

ELEVATION: 1132 feet (T-5)

G 16 (USC&GS, 1933; Polk County, Tennessee)

Located 2.3 miles east from Reliance, on left bank of Hiwassee River, on Louisville and Nashville Railroad from Knoxville to Atlanta. Station is 0.35 mile southwest of Milepost L-348, 200 feet west of the station sign at Hiwassee, 9.6 feet southeast of the southeast rail and in the top of bell of 30-inch cylindrical concrete pipe culvert, and 65.8 feet east of new telephone pole. A standard USC&GS bronze tablet set in top concrete pipe and stamped "G 16 1933". Steel post with control marker sign set 2 feet northeast of tablet.

Reference Mark 1: 58.61 feet N 82° E to tack in 15-inch locust.

Reference Mark 2: 39.69 feet S 26° E to tack in 12-inch cucumber.

GRID POSITION (Tennessee): X = 2,458,020.5; Y = 290,974.3 (T-3)

Grid Azimuth to South edge of brick chimney on house: 63°37'00".

Grid Azimuth to Center line of Forest Observatory tower: 97°08'00".

ELEVATION: 787.810 feet or 240.125 meters (C-2)

GAGE EM (USGS, ?; Polk County, Tennessee)

Located about 2.7 miles (airline) southwest of Ducktown. A standard USGS gage EM tablet on left bank downstream side of Rogers Bridge over Ocoee River.

ELEVATION: 1452.996 feet or 442.874 meters (T-2)

GAGE EM 1 (APALACHIA) (TVA, 1934; Polk County, Tennessee)

Located on left bank of Hiwassee River at Mile 62.6, 0.4 mile upstream from Apalachia, 1.7 miles north of Farnar, by road, 50 feet upstre from State Highway 68 bridge over Hiwassee River. Lag screw is in sycamore to which 10-foot to 20-foot section of gage is attached. Station is 7.80 feet above gage zero. Lag screw driven in 8-inch sycamore, 1 foot above base.

ELEVATION: 1131.11 feet (T-3)

GAGE EM 1 (DUCKTOWN) (USGS, 1934; Polk County, Tennessee)

Located 0.75 mile upstream from mouth of Brush Creek, and 3 miles west of Ducktown, on U. S. Highway 64, State Highway 40 bridge over Brush Creek, in top of left abutment, downstream side, of highway bridge over Brush Creek, and 26.54 feet above gage zero. A USGS standard reference tablet on left abutment of highway bridge.

ELEVATION: 1448.012 feet or 441.355 meters (T-2)

GAGE EM 1 (TURTLETOWN) (USGS, 1934; Polk County, Tennessee)

Located on left bank of Turtletown Creek, 600 yards north of Turtletown, 600 yards downstream from State Highway 68 bridge over creek at Turtletown, 20 feet downstream from gage house, 10 feet from top edge of left bank, and 17.84 feet above gage zero. A USGS standard reference tablet set in concrete block.

ELEVATION: 1508.45 feet (G-3)

GAGE EM 2 (APALACHIA) (TVA, 1934; Polk County, Tennessee)

Located near left bank of Hiwassee River at Mile 62.6, 0.4 mile upstream from Apalachia, 1.7 miles north of Farnar by road, on State Highway 68 bridge over Hiwassee River. Station is top of handrail, 1 foot past first upright steel standard, beyond pier No. 1 from left bank, on downstream side of bridge, and 33.13 feet above gage zero. Top of handrail of bridge.

ELEVATION: 1156.44 feet (T-3)

GAGE EM 2 (McHARG) (USGS, 1931; Polk County, Tennessee)

Located on right bank of Ocoee River, 1/2 mile downstream from highway bridge, 1 mile downstream from McHarg railroad siding and 3 miles southwest of Ducktown, 1/2 mile downstream from highway bridge known as Rogers Bridge, 5 feet downstream from gage house, and 9.966 feet above gage zero. Head of spike driven into 6-inch black gum tree.

ELEVATION: 1437.120 feet or 438.035 meters (T-2)

GAGE EM 3 (USGS, 1934; Polk County, Tennessee)

Located 0.75 mile upstream from mouth of Brush Creek, 100 feet downstream from highway bridge and 3 miles west of Ducktown, at U. S. Highway 64 and State Highway 40 bridge over Brush Creek, on left bank of Brush Creek, and 19.39 feet above gage zero, marked "EM". High point on rock, circled by chisel, 14 feet bankward and 8 feet downstream from shoreward end of approach to gage house.

ELEVATION: 1440.857 feet or 439.174 meters (T-2)

H 16 (USC&GS, 1933; Polk County, Tennessee)

Located about 3.5 miles west along the Louisville and Nashville Railroad from McFarland, about 0.5 mile east of milepost L 351, about 600 feet west of a concrete bridge over a small creek near the station sign at Crumbley, near the Narrows of Hiwassee River, 8.6 feet southeast of the southeast rail, and in the north face of a slate rock cliff, about 3 feet higher than the rail. A standard USC&GS disk stamped "H 16 1933" and set vertically.

ELEVATION: 867.265 feet or 264.343 meters (C-2)

HD 91 (TVA, 1937; Cherokee County, North Carolina)

Located in the northeast end of culvert on the Hiwassee Dam-Turtletown road, North Carolina State Highway 294, 7.4 miles southwest of Hiwassee Dam, 400 feet southwest of road northwest to Fields of the Wood First Assembly, over Camp Branch. A standard TVA tablet stamped "HD 91 1937" and set on east corner of south end of headwall of culvert.

ELEVATION: 1621.595 feet or 494.263 meters (T-2)

HD 92 (TVA, 1937; Cherokee County, North Carolina)

Located in the northeast end of a culvert over Hawk Branch on the Hiwassee Dam-Turtletown road, North Carolina Highway 294, 8.4 miles southwest of Hiwassee Dam, and 175 feet southwest of Jack Bates' residence. A standard TVA tablet stamped "HD 92" and set in east end of east headwall of culvert.

ELEVATION: 1589.334 feet or 484.430 meters (T-2)

HD 93 (TVA, 1937; Cherokee County, North Carolina)

Located in the northwest end of a culvert over Liberty Branch, at Liberty 9.5 miles southwest of the Hiwassee Dam, via the Hiwassee Dam-Turtletown road, North Carolina State Highway 294, 125 feet southwest of Edd Brown's store,

115 feet northwest of the Liberty Church, and 25 feet from the intersection of Shoal Creek Highway and the new highway. A standard TVA tablet stamped "HD 93" and set in northwest corner of north end of culvert.

ELEVATION: 1650.997 feet or 503.225 meters (T-2)

HD 94 (TVA, 1937; Polk County, Tennessee)

Located in the northwest end of a culvert across the Hiwassee Dam-Turtletown road, State Highway 123, 750 feet from the residence of Sam Reed, 10.5 miles southwest of the Hiwassee Dam, on Hiwassee Dam-Turtletown road, 50 feet from the intersection of two branches, 350 feet from the intersection of the Farnier Highway; culvert is in a triangle of three intersections. A standard TVA tablet stamped "HD 94 1937" and set in north corner of north end of culvert.

ELEVATION: 1590.597 feet or 484.815 meters (T-2)

HD 95 (TVA, 1937; Polk County, Tennessee)

Located in the northeast end of a culvert on the Hiwassee Dam-Turtletown Highway, Tennessee State Highway 123, 11.5 miles southwest from the Hiwassee Dam, 0.2 mile northwest of F. D. Knight's tourist camp, 200 feet northeast of an intersection of a road to Farnier, 0.2 mile northeast of the intersection of an old road, 100 feet from the intersection of a branch and Liberty Creek. A standard TVA tablet stamped "HD 95 1937" and set in northeast corner of north end of culvert headwall.

ELEVATION: 1522.349 feet or 464.013 meters (T-2)

HD 96 (TVA, 1937; Polk County, Tennessee)

Located in the northeast end of a culvert on the Hiwassee Dam-Turtletown road, Tennessee State Highway 68, 0.2 mile northeast from a railroad switch, 0.2 mile southwest of the Turtletown rock quarry, 200 feet from Turtletown Creek, and about 200 feet west of home of Avery Hopkins. A standard TVA tablet stamped "HD 96 1937" and set in northeast end of culvert.

ELEVATION: 1513.977 feet or 461.461 meters (T-2)

HYDRAULIC DATA EM (TVA, ? ; Polk County, Tennessee)

Located at Ocoee Dam No. 3. Nail and lead plug washer on top of dam. Elevation 1442.891 painted on dam.

ELEVATION: 1442.89 feet (T-3)

IP 105 (TVA, 1942; Polk County, Tennessee)

Located approximately 300 feet north of Tennessee State Highway 68, following the road to Apalachia Dam, near Farnier, in inlet headwall of 10- by 8-foot concrete box culvert. A standard TVA tablet stamped "IP 105 1942" and set in concrete box culvert headwall.

ELEVATION: 1543.5 feet (T-4)

IP 106 (TVA, 1942; Polk County, Tennessee)

Located approximately 0.7 mile northwest of Rogers Bridge following Ocoee River road toward Barker Mill Creek, on the property of J. H. Roger's Heirs, in inlet headwall of 10- by 13-foot concrete box culvert over Barker Mill Creek. A standard TVA tablet stamped "IP 106 1942" and set in concrete box culvert headwall.

ELEVATION: 1440.8 feet (T-4)

IP 107 (TVA, 1942; Polk County, Tennessee)

Located approximately 0.6 mile south of Tumbling Creek School following Tumbling Creek School road, on property of William Lock, in east curb of south abutment of Tumbling Creek Bridge. A standard TVA tablet stamped "IP 107 1942" and set in bridge abutment.

ELEVATION: 1568.9 feet (T-4)

IRONSBURG (USFS, 1934; Polk County, Tennessee)

Located 1.15 miles southwest of Ironsburg. A Forest Service Lookout Tower, on the summit of Black Mountain. Apex roof of tower.

GEODETIC POSITION: Lat. = 35°13'35.757; Long. = 84°21'41.503" (G-3)

To Station	Geodetic Azimuths		Distances	
	Azimuths	Back Azimuths	Log. Meters	Miles
Little Frog	19°57'17.3"	199°55'15.8"	4.194794	9.7
Bean	77 58 27.6	257 51 39.1	4.263092	11.4
Waucheesi	247 08 56.1	67 13 53.7	4.150389	8.8

GRID POSITION (Tennessee): X = 2,489,358.2; Y = 307,906.5 (G-3)

ELEVATION: 2326 feet (T-5)

JDB 2 (TVA, 1940; Polk County, Tennessee)

Located 0.3 mile southwest of Grassy Creek Church, about 2.2 miles (airline) west of Rogers Bridge, on Grassy Creek road, 30 feet south of road at Y-intersection, in triangular plot of ground, 95 feet east of small log barn, and 30 feet north of center line of ridge. A standard TVA tablet stamped "JDB 2 1940" and set in precast concrete monument.

ELEVATION: 1674.334 feet or 510.338 meters (T-2)

JWP 2 (TVA, 1953; Cherokee County, North Carolina)

Located about 0.25 mile northeast of Burns Gap. To reach station from Ducktown, go northeast along State Highway 68, 9 miles to the junction of Hiwassee Dam road, thence east to Liberty Church 2 miles and junction of North Carolina State Highway 294, thence southeast 4 miles to a gravel road southwest, thence 2.5 miles southwest to Burns Gap, thence 0.3 mile northeast along ridge to station on top of hill. Station is a 1- by 1-inch angle iron set on top of a knob.

GRID POSITION (Tennessee): X = 2,518,935.9; Y = 250,116.3 (T-4)

ELEVATION: 2453 feet (T-5)

JWP 3 (TVA, 1953; Polk County, Tennessee)

Located 25 feet southeast of high point of Knob, about 2.8 miles northeast of Little Frog Fire Tower and 0.4 mile northwest of Eagle Gap. To reach station from Ducktown, go 4 miles north along State Highway 68 to a store at Harbuck. Turn west on a gravel road known as Kinsey Mountain Road and go 4.4 miles to a gap. Turn north on a rock road for 2.6 miles to Eagle Gap. Continue about 0.2 mile to a ridge leading northeast. Park car and walk up the ridge about 0.15 mile to the crest and station as described. Station is 5.7 feet S 5° W of 9-inch red oak, 14.2 feet N 20° E of 7-inch red oak, and 9.0 feet N 62° E of 7-inch red oak. Station is a 1- by 1-inch angle iron.

GRID POSITION (Tennessee): X = 2,479,443.1; Y = 270,977.4 (T-3)

ELEVATION: 2667 feet (T-5)

K 16 (USC&GS, 1933; Polk County, Tennessee)

Located 3.6 miles east of McFarland, on left bank of Hiwassee River, on Louisville and Nashville Railroad from Knoxville to Atlanta. Station is 2850 feet

northeast of Milepost L-358, 30 feet south of telephone pole, at northeast end of cut on northwest rail and level with it. A standard USC&GS bronze tablet set in rock, and stamped "K 16 1933".

Reference Mark 1: 6.16 feet S 02° E to tack in northeast end of tie.

Reference Mark 2: 3.80 feet S 59° E to tack in northeast end of tie.

Reference Mark 3: 5.56 feet N 79° E to tack in northeast end of tie.

NOTE: Searched for but not recovered, October 1951.

GRID POSITION (Tennessee): X = 2,494,358.0; Y = 288,309.5 (T-3)

Grid Azimuth to Last visible telephone pole down river: 33°36'20".

Grid Azimuth to Top cross-arm bolt in last visible telephone pole up river: 229°08'10".

ELEVATION: 1090.241 feet or 332.306 meters (C-2)

L 16 (USC&GS, 1933; Polk County, Tennessee)

Located about 1.9 miles east of Apalachia by rail, at "The Loop" on the Louisville and Nashville Railroad, 90 feet east of Milepost L 362, 800 feet northwest of point where railroad crosses over itself at higher elevation, 6.7 feet south of south rail and in top of rock outcrop, 80.2 feet west of telephone pole between upper and lower tracks. A standard USC&GS disk stamped "L 16 1933". Steel post with control marker sign set 3.6 feet southeast of tablet.

Reference Mark 1: 7.5 feet Southeast to cross on rock.

ELEVATION: 1273.331 feet or 388.112 meters (C-2)

LHT 1934 (TVA, 1941; Polk County, Tennessee)

Located approximately 1.5 miles west of McFarland, at Deep Branch, on the Louisville and Nashville Railroad, approximately 20 feet south of center line of railroad, 50 feet east of motorcar siding, 4 feet below track. Tablet is set in bed of branch (Deep Branch), across track from deep rock gorge in river. A standard TVA tablet stamped "LHT 1934 1941" and set in rock.

ELEVATION: 929.588 feet or 283.339 meters (T-2)

LHT 1935 (TVA, 1941; Polk County, Tennessee)

Located 3.0 miles southwest of McFarland, along Louisville and Nashville Railroad, 3 rails south of milepost 352, on left bank of Big Hopper Camp Branch, 18 feet east of east rail, and 5 feet below track. A standard TVA tablet stamped "LHT 1935 1941" and set in rock.

ELEVATION: 865.303 feet or 263.745 meters (T-2)

LHT 1936 (TVA, 1941; Polk County, Tennessee)

Located 3.6 miles southwest of McFarland, along Louisville and Nashville Railroad, approximately 1200 feet southwest along railroad from Smith Creek, 8 feet south of south rail, and about 150 feet downstream from cableway over river. A standard TVA tablet stamped "LHT 1936 1941" and set in rock outcrop. Steel post with control marker sign set 1 foot southwest of monument.

ELEVATION: 864.332 feet or 263.449 meters (T-2)

LHT 1937 (TVA, 1941; Polk County, Tennessee)

Located 0.5 mile southeast along Louisville and Nashville Railroad from Apalachia, 40 feet southwest of railroad bridge over Tennessee Highway 68, 15 feet southeast of southeast rail. Tablet set in rock alongside of motor-car siding and 1 foot above rail. A standard TVA tablet stamped "LHT 1937 1941" and set in rock outcrop.

ELEVATION: 1177.694 feet or 358.962 meters (T-2)

LHT 1938 (TVA, 1941; Polk County, Tennessee)

Located 0.3 mile southeast of railroad station at Apalachia, on property of Louisville and Nashville Railroad, 26 feet south of south rail, 25 feet east of center line of small branch, 250 feet northeast of Apalachia Portal of Apalachia Tunnel. A standard TVA tablet stamped "LHT 1938 1941" and set in rock outcrop.

Report on Condition (TVA, April 1957): Bench Mark was not recovered. Probably still in place, but under 6 to 8 feet of waste rock from Apalachia Tunnel.

ELEVATION: 1157.019 feet or 352.660 meters (T-2)

LHT 1939 (TVA, 1941; Polk County, Tennessee)

Located 2.2 miles upstream from McFarland Depot by Louisville and Nashville Railroad, and 15.4 feet north of "USGS 1047.67". A standard TVA tablet stamped "LHT 1939 1941" and set in downstream left abutment of railroad bridge over Turtletown Creek.

ELEVATION: 1046.530 feet or 318.983 meters (T-2)

LHT 1940 (TVA, 1941; Polk County, Tennessee)

Located about 400 feet west of Turtletown Creek, 1.8 miles east of McFarland, on the Louisville and Nashville Railroad, approximately 10 feet south of center line of railroad, approximately 3 feet higher than south rail. A standard TVA tablet stamped "LHT 1940 1941" and set in rock outcrop.

ELEVATION: 1046.186 feet or 318.878 meters (T-2)

LHT 1947 (TVA, 1941; Polk County, Tennessee)

Located 700 feet south of Ocoee 3 Powerhouse on center line of tunnel, 1300 feet south of U. S. Highway 64, on property of US-TVA, on center line of ridge, about 200 feet south of surge tank on south edge of 10-foot test hole. A standard tablet stamped "LHT 1947", ground off plain, punched, and set in poured place concrete monument.

Reference Mark 1: 19.0 feet West to TVA washer in 5-inch pine.

Reference Mark 2: 21.6 feet Northeast to TVA washer in 8-inch twin crooked maple.

Reference Mark 3: 34.3 feet Southeast to TVA washer in 12-inch white oak.

GRID POSITION (Tennessee): X = 2,453,816.8; Y = 251,408.8 (T-3)

Grid Azimuth to LHT 1948 (distance 191.9 feet): 3°12'00".

ELEVATION: 1451.008 feet or 442.268 meters (T-2)

LHT 1948 (TVA, 1941; Polk County, Tennessee)

Located 900 feet south of Ocoee 3 Powerhouse on center line of tunnel, 1500 feet south of U. S. Highway 64, on property of US-TVA, about 20 feet east of center line of ridge, about 75 feet north of center of knoll, and about 75 feet west of center line of power line. A standard TVA tablet stamped "LHT 1948", ground off plain, punched, and set in poured place concrete monument.

Reference Mark 1: 22.1 feet Southwest to TVA washer on 8-inch triple white oak.

Reference Mark 2: 19.0 feet Southeast to TVA washer on 10-inch Spanish oak.

Reference Mark 3: 25.2 feet West to TVA washer on 5-inch twin maple.

GRID POSITION (Tennessee): X = 2,453,806.1; Y = 251,217.2 (T-3)

Grid Azimuth to LHT 1947 (distance 191.9 feet): 183°12'00".

Grid Azimuth to LHT 1949 (distance 75.1 feet): 3°12'00".

ELEVATION: 1511.165 feet or 460.604 meters (T-2)

LHT 1949 (TVA, 1941; Polk County, Tennessee)

Located 1000 feet south of Ocoee 3 Powerhouse on center line of tunnel,

1600 feet south of U. S. Highway 64, on property of US-TVA, set about 20 feet southwest of center of knoll, and about 60 feet west of center line of power line. A standard TVA tablet stamped "LHT 1949" ground off plain, punched, and set in poured place concrete monument.

Reference Mark 1: 16.3 feet Northwest to washer on 8-inch white oak.
Reference Mark 2: 22.5 feet Northeast to washer on 12-inch pine.
Reference Mark 3: 22.4 feet West to washer on 12-inch pine.

GRID POSITION (Tennessee): X = 2,453,801.9; Y = 251,142.2 (T-3)
Grid Azimuth to LHT 1948 (distance 75.1 feet): 183°12'00".
ELEVATION: 1518.744 feet or 462.914 meters (T-2)

LHT 1950 (TVA, 1941; Polk County, Tennessee)

Located on Rough Creek, on an outcrop extending from left bank and about in center line of creek bed, about 275 feet upstream from Ocoee No. 3 tunnel, about 125 feet upstream from "DN 10", about 1.5 feet above normal water, and 49.7 feet downstream from west one of two 2-inch eye bolts anchored in rock outcrop, near water's edge. A standard TVA tablet stamped "LHT 1950" ground off, bronze, and set in rock outcrop.

ELEVATION: 1392.730 feet or 424.505 feet (T-2)

LHT 1951 (TVA, 1941; Polk County, Tennessee)

Located on outcrop extending from left bank of Rough Creek, about 75 feet upstream from "LHT 1950", about 20 feet downstream from center of 18-foot overhanging rock bluff, about 13 feet from center line creek, 24.9 feet upstream from west one of two 2-inch eye bolts, and 22.6 feet upstream from east one of two 2-inch eye bolts. A standard TVA tablet stamped "LHT 1951", ground off, and set in rock outcrop.

ELEVATION: 1396.388 feet or 425.620 meters (T-2)

LITTLE FROG (USGS, 1934; Polk County, Tennessee)

Located on the highest flat timbered summit of Little Frog Mountain, 8 miles northwest from Ducktown. A US Forest Service 80-foot steel tower is 28.56 feet N 6° 20' E of station. Station mark is an aluminum tablet stamped "3323" painted on post "USFS 3322.9", cemented in a large boulder, top flush with surface of the ground, 2.8 feet north of the signal tree, which is one of two tall chestnut trees left standing after cutting timber on summit.

GEODETIC POSITION: Lat. = 35°05'38.049"; Long. = 84°25'12.501" (G-3)

To Station	Geodetic Azimuths		Distances	
	Azimuths	Back Azimuths	Log. Meters	Miles
Cohutta	31°51'54.2"	211°46'36.4"	4.425822	16.6
Bean	130 52 35.9	310 47 49.5	4.221323	10.3
Pack	291 44 23.3	111 49 00.4	4.119278	8.2

GRID POSITION (Tennessee): X = 2,472,634.3; Y = 259,325.5 (G-3)
ELEVATION: 3322.5 feet (G-4)

LITTLE FROG TOWER (USFS, ? ; Polk County, Tennessee)

Station is steel lookout tower on highest flat timbered summit of Little Frog Mountain, about 8 miles northwest from Ducktown.

GEODETIC POSITION: Lat. = 35°05'38.331"; Long. = 84°25'12.463" (G-3)

To Station	Geodetic Azimuths		Distances	
	Azimuths	Back Azimuths	Log. Meters	Miles
Little Frog	6°20'	186°20'	0.94190	28.5 Feet
Chilhowee	100 12 47.1	280 05 50.4	4.270478	11.6

GRID POSITION (Tennessee): X = 2,472,637.0; Y = 259,354.1 (G-3)
GRID POSITION (Georgia West): X = 424,180.5; Y = 1,853,214.6 (G-3)
ELEVATION: 3324 feet (T-5)

LR 503 (TVA, 1940; Cherokee County, North Carolina)

Located about 6.0 miles north of Mineral Bluff, Georgia. To reach from post office at Mineral Bluff, go north 1.5 miles, turn right and go 2.7 miles; thence right again for 2.2 miles; thence left for 2.4 miles to T-road intersection. Turn left and go 0.1 mile to side road left. Turn left and go 0.5 mile to end. Follow trail west to top of highest mountain. Station is on highest point, about 60 feet S 25° E from triangulation station "FARNER 1". Station is 11.28 feet N 75° E of 3-inch black oak, 14.41 feet S 60° W of 24-inch dead chestnut, and 25.90 feet N 45° W of 10-inch hickory. Station is a 1- by 1-inch angle iron stamped "TVA LR 503".

GEODETIC POSITION: Lat. = 35°00'05.54"; Long. = 84°16'49.96" (T-4)
GRID POSITION (Georgia West): X = 465,896.9; Y = 1,819,495.0 (T-4)
ELEVATION: 2414 feet (T-5)

LR 504 (TVA, 1940; Cherokee County, North Carolina)

Located about 6.4 miles north of Mineral Bluff, Georgia. To reach from post office at Mineral Bluff, go north for 1.5 miles, turn right and go 2.7 miles; thence right again for 2.2 miles; thence left for 2.4 miles to T-road intersection. Turn right and go 0.6 mile to Y-road intersection. Turn sharp to left and go 400 feet to church. Station is at south end of cemetery in front of church. It is 15 feet north of south fence and between two graves. It is 12 feet S 40° W from Rebecca Watson tombstone, 16.64 feet N 50° W of fence post, and 13.81 feet north of fence post. Station is a 1- by 1-inch angle iron stamped "TVA LR 504".

GEODETIC POSITION: Lat. = 35°00'02.98"; Long. = 84°15'28.24" (T-4)
GRID POSITION (Georgia West): X = 472,694.2; Y = 1,819,229.1 (T-4)
ELEVATION: 1806 feet (T-5)

LR 740 (TVA, 1941; Polk County, Tennessee)

Located 1.9 miles upstream from Ocoee Dam No. 2, on U. S. Highway 64, and 20.3 feet north of center line of highway. A standard TVA tablet stamped "LR 740 1941" and set in rock.

Reference Mark 1: 88.08 feet S 60° W to nail and TVA washer in telephone pole No. 1357.
Reference Mark 2: 32.60 feet N 55° E to nail and TVA washer in 3-inch pine.

GRID POSITION (Tennessee): X = 2,458,182.1; Y = 250,259.2 (T-3)
ELEVATION: 1202.219 feet or 366.437 meters (T-2)

LR 742 (TVA, 1941; Polk County, Tennessee)

Located 2.6 miles upstream from Ocoee Dam No. 2 and on the right bank of the river, 4.5 feet west of center line of river road. A standard TVA tablet stamped "LR 742 1941" and set in rock.

Reference Mark 1: 11.09 feet N 80° E to drill hole in rock.
Reference Mark 2: 32.79 feet North to nail and TVA washer in telephone pole No. 1443.

Reference Mark 3: 4.56 feet S 75° W to nail and TVA washer in 3-inch oak.
GRID POSITION (Tennessee): X = 2,460,278.8; Y = 248,628.8 (T-3)
ELEVATION: 1237.478 feet or 377.184 meters (T-2)

LR 743 (TVA, 1941; Polk County, Tennessee)

Located 2.8 miles upstream from Ocoee Dam No. 2, on right bank of river. A standard TVA tablet stamped "LR 743 1941" and set in rock.

Reference Mark 1: 24.32 feet N 25° E to drill hole in rock.
Reference Mark 2: 13.24 feet N 85° E to drill hole in rock.
Reference Mark 3: 19.63 feet S 15° E to nail and TVA washer in telephone pole No. 1450.

GRID POSITION (Tennessee): X = 2,460,499.4; Y = 247,791.5 (T-3)
ELEVATION: 1261.234 feet or 384.425 meters (T-2)

LR 750 (TVA, 1941; Polk County, Tennessee)

Located 3.35 miles upstream from Ocoee Dam No. 2, 10 feet northeast of river road, and 50 feet west of telephone pole No. 1472. A standard TVA tablet stamped "LR 750 1941" and set in rock.

GRID POSITION (Tennessee): X = 2,460,390.9; Y = 245,590.4 (T-3)
ELEVATION: 1297.268 feet or 395.408 meters (T-2)

LR 760 (TVA, 1941; Polk County, Tennessee)

Located 4.45 miles upstream from Ocoee Dam No. 2 and on right bank of river, 10 feet west of road, 13.50 feet N 43° E of 8-inch oak, 13.37 feet S 35° E of 3-inch oak snag, and 21.57 feet S 60° W of 2-inch oak. A standard TVA tablet stamped "LR 760 1941" and set in a precast concrete monument.

GRID POSITION (Tennessee): X = 2,462,448.2; Y = 241,494.2 (T-3)
ELEVATION: 1331.799 feet or 405.933 meters (T-2)

LR 776 (TVA, 1941; Polk County, Tennessee)

Located about 4.1 (airline) miles west of Apalachia Dam, on left bank of Turtletown Creek, at first big falls above mouth, and under a large boulder. A standard TVA tablet stamped "LR 776 1941" and set in a large boulder.

Reference Mark 1: 8.20 feet North to nail and washer in 6-inch elm.

Reference Mark 2: 19.22 feet West to nail and washer in 10-inch elm.

GRID POSITION (Tennessee): X = 2,487,748.0; Y = 285,745.0 (T-3)
Grid Azimuth to LR 777 (distance 244.8 feet): 325°08'50".

ELEVATION: 1063.761 feet or 324.235 meters (T-2)

LR 777 (TVA, 1941; Polk County, Tennessee)

Located about 4.1 (airline) miles west of Apalachia Dam, on left bank of Turtletown Creek, and just above first big falls. A standard TVA tablet stamped "LR 777 1941" and set in boulder.

Reference Mark 1: 17.35 feet West to nail and washer in 15-inch poplar.

Reference Mark 2: 17.70 feet Northwest to nail and washer in 8-inch elm.

Reference Mark 3: 28.93 feet East to nail and washer in 14-inch sweetgum.

GRID POSITION (Tennessee): X = 2,487,887.8; Y = 285,544.2 (T-3)

Grid Azimuth to LR 776 (distance 244.8 feet): 145°08'50".

Grid Azimuth to LR 778 (distance 122.2 feet): 344°33'40".
ELEVATION: 1077.25 feet (T-3)

LR 778 (TVA, 1941; Polk County, Tennessee)

Located about 4.1 (airline) miles west of Apalachia Dam, on left bank of Turtletown Creek. A standard TVA tablet stamped "LR 778 1941" and set in a boulder.

Reference Mark 1: 17.14 feet South to nail and washer in 14-inch oak.

Reference Mark 2: 13.21 feet West to nail and washer in 6-inch mulberry.

Reference Mark 3: 44.40 feet West to nail and washer in 10-inch elm.

GRID POSITION (Tennessee): X = 2,487,920.4; Y = 285,426.4 (T-3)
Grid Azimuth to LR 777 (distance 122.2 feet): 164°33'40".

ELEVATION: 1076.29 feet (T-3)

LR 804 (TVA, 1941; Polk County, Tennessee)

Located 1200 feet south of McFarland Station in Apalachia Reservation, about 200 feet north of Apalachia Tunnel, on nose of ridge, 400 feet south of road, and 15 feet east of skid trail. A standard TVA tablet stamped "LR 804 1941" and set in a rock.

GRID POSITION (Tennessee): X = 2,479,569.3; Y = 287,085.3 (T-3)

ELEVATION: 1232.37 feet (T-3)

LR 807 (TVA, 1941; Polk County, Tennessee)

Located 0.4 mile southeast of McFarland Station, in center line of woods road, 100 feet west of creek forks, 12.33 feet S 67° W of 20-inch oak, 13.03 feet N 18° W of 8 and 10-inch double oak, and 12.86 feet N 24° E of 2-inch gum. A standard TVA tablet stamped "LR 807 1941" and set in a rock.

GRID POSITION (Tennessee): X = 2,479,775.5; Y = 286,760.9 (T-3)

Grid Azimuth to LR 808 (distance 224.7 feet): 279°14'40".
ELEVATION: 1197.343 feet or 364.951 meters (T-2)

LR 808 (TVA, 1941; Polk County, Tennessee)

Located 0.5 mile southeast of McFarland, on west edge of road to Kimsey Mountain, 150 feet east of forks of creek, 15.72 feet S 32° E of 24-inch beech, 31.62 feet N 35° E of 22-inch beech, and 14.65 feet N 74° E of 4-inch spruce. A standard TVA tablet stamped "LR 808 1941" and set in a precast concrete monument.

GRID POSITION (Tennessee): X = 2,479,997.3; Y = 286,724.8 (T-3)

Grid Azimuth to LR 807 (distance 224.7 feet): 99°14'40".
ELEVATION: 1195.244 feet or 364.311 meters (T-2)

LR 856 (TVA, 1941; Polk County, Tennessee)

Located about 0.9 (airline) miles west of McFarland, 2200 feet southwest of Louisville and Nashville Railroad bridge 33 over Butler Branch, 2 feet west of center line of branch, 8.77 feet S 50° E of 4-inch birch, 13.79 feet east of 4-inch ash, and 15.20 feet north of 6-inch poplar. A standard TVA tablet stamped "LR 856 1941" and cemented in rock.

GRID POSITION (Tennessee): X = 2,475,251.0; Y = 289,026.1 (T-3)

Grid Azimuth to LR 857 (distance 183.2 feet): 31°58'00".
ELEVATION: 1039.552 feet or 316.856 meters (T-2)

LR 857 (TVA, 1941; Polk County, Tennessee)

Located about 0.9 (airline) miles west of McFarland, 2500 feet southwest of Louisville and Nashville railroad bridge, over Butler Creek, and boulder is about 100 feet south of 24-inch white pine in branch. Station is 17.11 feet S 45° E of 8-inch poplar, 8.07 feet N 75° W of 10-inch poplar, 31.14 feet north of 6-inch poplar. A standard TVA tablet stamped "LR 857 1941" and set in rock outcrop.

GRID POSITION (Tennessee): X = 2,475,154.0; Y = 288,870.6 (T-3)

Grid Azimuth to LR 856 (distance 183.2 feet): 211°58'00".

Grid Azimuth to LR 858 (distance 383.2 feet): 20°59'00".
ELEVATION: 1062.029 feet or 323.707 meters (T-2)

LR 858 (TVA, 1941; Polk County, Tennessee)

Located about 0.9 (airline) miles west of McFarland, 2700 feet southwest of Louisville and Nashville railroad bridge 33 over Butler Branch, about 100 feet south of small rock cliff on west side of stream, 4.75 feet N 45° E of 10-inch poplar, 19.10 feet N 75° W of 3-inch ash, and 34.40 feet S 15° W of 10-inch beech. A standard TVA tablet stamped "LR 858 1941" and set in a rock boulder.

GRID POSITION (Tennessee): X = 2,475,016.8; Y = 288,512.8 (T-3)

Grid Azimuth to LR 857 (distance 383.2 feet): 200°59'00".

ELEVATION: 1110.211 feet or 338.393 meters (T-2)

LR 868 (TVA, 1941; Polk County, Tennessee)

Located 1.3 miles southeast of Apalachia Powerhouse, 1600 feet airline from Hiwassee River, on left bank of Deep Branch, on water's edge, at intersection of branches to north and south, 3.77 feet N 70° E of 2-inch birch, 13.20 feet S 15° W of 4-inch beech, and 21.48 feet S 90° W of 16-inch beech. A standard TVA tablet stamped "LR 868 1941" and cemented in rock.

GRID POSITION (Tennessee): X = 2,473,070.2; Y = 289,459.9 (T-3)

ELEVATION: 1122.86 feet (T-3)

LR 872 (TVA, 1941; Polk County, Tennessee)

Located about 1.3 miles southeast of Apalachia Powerhouse, 1600 feet airline from Hiwassee River up Deep Branch, thence 600 feet northwest of Deep Branch, 100 feet west of forks of hollow in center line of branch (dry), 9.41 feet S 80° E of 3-inch ash, 6.89 feet S 10° W of 3-inch holly, and 7.10 feet west of 4-inch beech. A standard TVA tablet stamped "LR 872 1941" and cemented in rock.

GRID POSITION (Tennessee): X = 2,472,571.8; Y = 289,562.7 (T-3)

ELEVATION: 1194.38 feet (T-3)

LR 893 (TVA, 1941; Polk County, Tennessee)

Located near Apalachia Powerhouse, 25 feet above hollow to east, in center line of a dry creek, 11.16 feet N 20° E of 4-inch poplar, 9.25 feet N 60° E of 4-inch white oak, and 11.23 feet S 50° E of 5-inch white oak. A standard TVA tablet stamped "LR 893 1941" and set in a rock.

GRID POSITION (Tennessee): X = 2,467,924.5; Y = 291,021.5 (T-3)

ELEVATION: 1055.40 feet (T-3)

LR 898 (TVA, 1941; Polk County, Tennessee)

Located on left bank of Smith Creek, 1000 feet southeast of the Apalachia Powerhouse, 700 feet southeast of mouth of Smith Creek, near small overhanging rock bluff, 12.70 feet east of 3-inch triple birch, 11.85 feet N 10° W of rock abutment, and 22.64 feet N 30° W of 1-inch laurel. A standard TVA tablet stamped "LR 898 1941" and set in rock outcrop.

GRID POSITION (Tennessee): X = 2,467,030.1; Y = 290,718.2 (T-3)

Grid Azimuth to LR 899 (distance 291.7 feet): 138°53'10".

ELEVATION: 889.414 feet or 271.094 meters (T-2)

LR 899 (TVA, 1941; Polk County, Tennessee)

Located on right bank of Smith Creek, about 900 feet south of Apalachia Powerhouse, 500 feet southeast of mouth of Smith Creek and near a rock bluff, 12 feet from center line of creek, 31.95 feet N 10° W of 6-inch oak. A standard TVA tablet stamped "LR 899 1941" and set in rock outcrop.

Reference Mark 1: 15.46 feet N 50° E to chiseled cross in southwest corner of left abutment.

Reference Mark 2: 61.14 feet N 35° E to M-67-23.

GRID POSITION (Tennessee): X = 2,466,838.3; Y = 290,938.0 (T-3)

Grid Azimuth to LR 898 (distance 291.7 feet): 318°53'10".

ELEVATION: 878.499 feet or 267.767 meters (T-2)

LR 943 (TVA, 1941; Polk County, Tennessee)

Located about 5 miles west of Ducktown, on a wooded ridge, 300 feet northeast of a low gap, 50 feet southeast of the highest point on the ridge in the immediate vicinity. To reach from Copperhill at crossroads in center of town, drive northwest on State Highway 68 1.5 miles to intersection, turn left on gravel road 1.7 miles to Rogers Bridge. Cross bridge and bear right 2.0 miles to fork, take right fork 2.2 miles to a fork, take right fork across ford, and go 0.6 mile to a locked gate. Obtain key from Forest Service. Continue 1.8 miles to gap, turn right on woods road along ridge 0.2 mile to low gap. Continue on foot 300 feet along old woods road on center line ridge to station. A 1- by 1-inch angle iron stamped "LR 943", about 0.3 foot above ground.

Reference Mark 1: 9.16 feet N 21° E to nail and washer in 4-inch post oak.

Reference Mark 2: 4.28 feet N 86° E to nail and washer in 12-inch white oak.

Reference Mark 3: 15.02 feet S 32° W to nail and washer in 5-inch white oak.

Reference Mark 4: 4.60 feet N 81° E to nail and washer in signal.

GRID POSITION (Tennessee): X = 2,458,317.9; Y = 242,050.7 (T-3)

Grid Azimuth to Little Frog F.T. (distance 22,459.9 feet): 219°36'30".

M 16 (USC&GS, 1933; Polk County, Tennessee)

Located about 0.3 mile southwest along the Louisville and Nashville Railroad from the station at Farmer, about 215 feet southwest of the center of a road crossing, and about 304 feet northwest of the northwest rail. A standard USC&GS tablet stamped "M 16 1933" and set in the top of a concrete post.

NOTE: Searched for but not recovered, October 1949 and May 1953.

GRID POSITION (Tennessee): X = 2,502,486.2; Y = 280,400.2 (T-3)

ELEVATION: 1560.312 feet (C-2)

M 66 23 (USGS, 1923; Polk County, Tennessee)

Located 2.9 miles east from Reliance, 0.7 mile northeast of the station sign at Hiwassee, on the Louisville and Nashville Railroad from Knoxville to Atlanta. Station is 0.3 mile northeast of Milepost L 348, west of a steep bluff on east side of river, 12 feet west of the west rail, in the top of a large sloping rock which inclines toward the east, in south end of large rock cut, and 85.2 feet south of whistle post. A standard USGS tablet stamped "M 66 23" and set in outcropping rock.

Reference Mark 1: 13.31 feet N 40° E to tack in end of crosstie.

Reference Mark 2: 13.09 feet S 75° E to tack in end of crosstie.

Reference Mark 3: 26.3 feet East to cross on rock bluff.

GRID POSITION (Tennessee): X = 2,457,027.1; Y = 293,599.9 (T-3)

Grid Azimuth to Tip of last visible telephone pole down river: 329°27'30".

Grid Azimuth to Top of bolt in sign post up river: 175°13'50".

ELEVATION: 800.835 feet or 244.095 meters (C-2)

M-67 23 (USGS, 1923; Polk County, Tennessee)

Located 6.1 miles east of Reliance, on left bank of Hiwassee River, near the station sign at Crumbley, about 0.4 mile west of milepost L-352, on the Louisville and Nashville Railroad from Knoxville to Atlanta. Station is 50 feet southeast of left bank of Hiwassee River, about 500 feet downstream from Apalachia Powerhouse, on railroad bridge over Smith Creek, on the northeast end, 1 foot southwest of 6-inch rise on concrete headwall. Station is in well covered by steel plate, about 1 foot lower than top of bridge, on north end 5 feet west of east abutment. A standard USGS tablet set in concrete bridge headwall and stamped "M-67 23".

Reference Mark 1: 3.92 feet N 77° E to tack in northwest end of crosstie.

Reference Mark 2: 2.00 feet S 39° E to tack in northwest end of crosstie.

Reference Mark 3: 4.18 feet S 16° W to tack in northwest end of crosstie.

NOTE: Well formed when concrete stringer was added to and floor of bridge was raised.

GRID POSITION (Tennessee): X = 2,466,514.8; Y = 291,055.9 (T-3)

Grid Azimuth to Top of telephone pole (distance 2640 feet): 81°02'20".

Grid Azimuth to Top of last visible telephone pole: 205°43'50".

ELEVATION: 863.538 feet or 263.207 meters (C-2)

M-68 23 (USGS, 1923; Polk County, Tennessee)

Located 0.2 mile east of McFarland, on left bank of Hiwassee River, on Louisville and Nashville Railroad from Knoxville to Atlanta. Station is 1180 feet southeast of Milepost L-355, 225 feet west of cattle guard, 25 feet west of 30-inch culvert. Station is 15 feet south of Louisville and Nashville Railroad opposite switch point, about 1.5 feet higher than the rail. Tablet is in top of large flat rock, about 150 feet east of east end of railroad switch, 33 feet west of center of south end of 36-inch cast iron culvert, 13.2 feet south of center of south rail on main line, 16.0 feet north of 12-inch painted maple, and 2.5 feet N 80° E of fence post and sign. A standard USGS tablet set in rock outcrop and stamped "M-68 23" and set in rock outcrop.

GRID POSITION (Tennessee): X = 2,480,150.8; Y = 287,513.9 (T-3)

ELEVATION: 970.165 feet or 295.707 meters (C-2)

M-68A 23 (USGS, 1923; Polk County, Tennessee)

Located 3.0 miles east of McFarland, on the Louisville and Nashville Railroad. Station is 50 feet east of milepost L-358, 5 feet south of the south rail, in the top of a rock outcrop which inclines to the south, 51.0 feet northeast of center of milepost L-358, and 33.4 feet east of telephone pole E-44. A standard USGS tablet set in top of rock outcrop and stamped "M-68A 23". Steel post with control marker sign set 2.7 feet east of tablet.

GRID POSITION (Tennessee): X = 2,492,431.0; Y = 286,281.7 (T-3)

Grid Azimuth to Last visible telephone pole down river: 94°19'10".

Grid Azimuth to Last visible telephone pole up river: 231°08'30".

ELEVATION: 1072.491 feet or 326.896 meters (C-2)

M-69 23 (USGS, 1923; Polk County, Tennessee)

Located at Apalachia, about 230 feet east of the Louisville and Nashville Railroad Station, 5 feet south of the south rail, and in the top of a rock ledge, same elevation as south rail. A USGS standard tablet stamped "M-69 23". Steel post with control marker sign set 2.6 feet north of tablet.

GRID POSITION (Tennessee): X = 2,501,159.2; Y = 287,370.8 (T-3)

ELEVATION: 1139.053 feet or 347.184 meters (C-2)

M 70 23 (USGS, 1923; Polk County, Tennessee)

Located 0.5 mile south of the Loop on Louisville and Nashville Railroad, 200 feet north of a switch stand, in center of cut, and 6 feet west of track. A standard USGS tablet stamped "M 70 23" and set in rock.

ELEVATION: 1415.65 feet (T-3)

M 71 23 (USGS, 1933; Polk County, Tennessee)

Located about 1.1 miles southwest along the Louisville and Nashville Railroad from Farmer, 1.5 miles northeast of Turtletown, about 0.2 mile southwest of milepost L-367, at bridge 50 over Turtletown Creek, in the top of the north stone abutment, 4 feet east of the east rail, and 1 foot lower than the rail. A USGS standard disk stamped "M 71 23".

ELEVATION: 1516.313 feet or 462.173 meters (C-2)

M 72 23 (USGS, 1923; Polk County, Tennessee)

Located about 0.8 mile south along the Louisville and Nashville Railroad from Turtletown, at bridge 56, in the center of the top of the second course of stone from the top on the east side of the south abutment, 8 feet east of the east rail, and 3 feet lower than the rail. A USGS standard disk stamped "M 72 23".

ELEVATION: 1525.998 feet or 465.125 meters (C-2)

MAC (TVA, 1941; Polk County, Tennessee)

Located on right bank of Ocoee River, about 500 feet downstream from Ocoee No. 3 dam axis, 125 feet east of telephone line, 30 feet north of center line of ridge, on north side of an 8-inch pine tree. A 1- by 1-inch angle iron set in concrete and stamped "MAC 1941".

Reference Mark 1: 23.82 feet N 56° W to nail and blaze in 3-inch pine. (slope distance)

Reference Mark 2: 24.34 feet S 63° W to nail and blaze in 6-inch oak. (slope distance)

Reference Mark 3: 2.70 feet S 75° E to nail and blaze in 8-inch pine. (slope distance)

GRID POSITION (Tennessee): X = 2,459,803.4; Y = 239,766.3 (T-3)

Grid Azimuth to Little Frog F.T. (distance 23,417.6 feet): 213°14'00".

ELEVATION: 1677.011 feet or 511.154 meters (T-2)

MCD-1 (TVA, 1953; Cherokee County, North Carolina)

Located about 5-1/2 miles east and 1 mile north from Ducktown, Tennessee, about 4.25 miles north and 2.1 miles east from the corner of Georgia-Tennessee and North Carolina State lines, 100 feet north and 10 feet west of a saddle on north end of Pack Mountain about 1000 feet north of Pack Triangulation Station. Station is a 1- by 1-inch angle iron stamped "MCD 1 1953".

GRID POSITION (Tennessee): X = 2,512,765.6; Y = 244,543.2 (T-4)

ELEVATION: 3434 feet (T-5)

MCD-2 (TVA, 1953; Cherokee County, North Carolina)

Located 0.5 mile south of Pleasant Hill Church, on 3.0-foot cut, 30 feet west of center line of gravel road. To reach from post office at Liberty, go northeast on State Highway 294 for 0.4 mile. Turn left on Pleasant Hill gravel road and continue for 3.5 miles to station at T-trail northwest, 28.8 feet S 70° W of power pole, 9.4 feet S 02° E of 4-inch post oak, and 9.9 feet east of 3-inch black oak tree. Station is a 1- by 1-inch angle iron stamped "MCD 2 1953".

GRID POSITION (Tennessee): X = 2,521,259.0; Y = 282,145.0 (T-4)

ELEVATION: 1716 feet (T-5)

MCD 3 (TVA, 1953; Cherokee County, North Carolina)
 Located about 0.5 mile north of Pleasant Hill Church, in center line of power line on small ridge on left side of road, about 600 feet west of house. To reach from post office at Liberty, go northeast on State Highway 294 for 0.4 mile, turn left on gravel road to Pleasant Hill, go 4.0 miles to station. Station is 21.0 feet S 50° E of power pole, 26.0 feet N 47° E of 5-inch black oak tree, and 29.9 feet west of 8-inch black oak tree. A 1- by 1-inch angle iron stamped "MCD 3 1953".
 GRID POSITION (Tennessee): X = 2,522,060.4; Y = 285,364.4 (T-4)
 ELEVATION: 1659 feet (T-5)

MCD 4 (TVA, 1953; Polk County, Tennessee)
 Located on high point of Smith Mountain. To reach from post office in Ducktown, go north on State Highway 68 for 5.3 miles. Turn left on old State Highway 40, go 4.0 miles. Turn right and go 4.5 miles to top of ridge. Leave car and walk northeast up ridge for about 2000 feet to high point and station. Station is 19.6 feet S 25° E of 18-inch red oak with a triangular blaze, 25.6 feet S 60° W of 10-inch pine tree, and 9.0 feet N 10° W of 4-inch black oak tree. A 1- by 1-inch angle iron stamped "MCD 4 1953".
 GRID POSITION (Tennessee): X = 2,475,518.7; Y = 277,955.6 (T-4)
 ELEVATION: 2327 feet (T-5)

MCD 5 (TVA, 1953; Polk County, Tennessee)
 Located about 2.5 miles southeast of Reliance. To reach from post office in Reliance, drive to home of Coon Goforth. Leave car and walk east about 1/2 mile to top and station. Station is 14.7 feet N 35° E of 14-inch black oak tree, 7.4 feet S 45° E of 6-inch red oak tree, and 11.9 feet S 60° W of 8-inch Spanish oak tree. A 1- by 1-inch angle iron stamped "MCD-5 1953".
 GRID POSITION (Tennessee): X = 2,451,109.0; Y = 285,668.8 (T-4)
 ELEVATION: 1326 feet (T-5)

MCD 6 (TVA, 1953; Polk County, Tennessee)
 Located 35 feet east of high point, on White Oak Mountain, about 1.5 miles southeast of Apalachia Powerhouse at Smith Creek. To reach from post office in Ducktown, drive car to powerhouse, leave car and walk southwest up ridge about 1.6 miles to high point and station as described. Station is 13.0 feet N 09° W of 14-inch pine tree, 4.7 feet S 18° E of 20-inch red oak tree, and 32.1 feet S 80° E of 8-inch red oak tree. A 1- by 1-inch angle iron stamped "MCD 6 1953".
 GRID POSITION (Tennessee): X = 2,463,565.4; Y = 286,061.2 (T-4)
 ELEVATION: 1685 feet (T-5)

MLB 1513 (TVA, 1953; Cherokee County, North Carolina)
 Located approximately 6.5 miles southeast from Ducktown, Tennessee. To reach from the junction of Highways 64 and 68 1 mile south of Ducktown, go east on Highway 64 for 8.1 miles to the Johnsonville Creek Road. Turn right and go 0.8 mile to road intersection. Turn left and go 0.4 mile to T-road southwest. Turn right and ford small stream, go 0.5 mile to home of Mr. Hawkins. Leave car and go northwest uphill to high point and station. A 1- by 1-inch angle iron.
 Reference Mark 1: 50.3 feet N 86° W to a triangular blaze in 24-inch Spanish oak.
 Reference Mark 2: 11.0 feet S 55° W to a triangular blaze on a 5-inch scrub oak tree.
 Reference Mark 3: 38.45 feet S 32° E to a triangular blaze on a 12-inch hickory tree.
 GRID POSITION (Tennessee): X = 2,514,977.2; Y = 226,426.4 (T-4)
 ELEVATION: 2413 feet (T-5)

MLB 1515 (TVA, 1953; Cherokee County, North Carolina)
 Located approximately 10 miles southeast from Ducktown, Tennessee. To reach from junction of Highways 64 and 68 (1.0 mile south of Ducktown), go 9.6 miles southeast on Highway 64 to junction of T-road south, turn right (south) on Arp road and go 0.6 mile to road fork, keep right for 0.2 mile to home of Mr. O. C. Clore. Station is on high point of mountain approximately 0.8 mile N 35° W from home of Mr. O. C. Clore. Station is S 50° W 100 feet from and 2.8 feet lower than high point. A 1- by 1-inch angle iron.
 Reference Mark 1: 20.20 feet N 44° W to a triangular blaze on a 16-inch oak tree.
 Reference Mark 2: 23.85 feet S 50° W to a triangular blaze on a 16-inch oak tree.
 Reference Mark 3: 58.50 feet S 12° E to a triangular blaze on a 16-inch oak tree.
 GRID POSITION (Tennessee): X = 2,523,236.2; Y = 231,350.4 (T-4)
 ELEVATION: 2375 feet (T-5)

MLB 1516 (TVA, 1953; Polk County, Tennessee)
 Located on northeast side of ridge, approximately 0.3 mile northwest from Ducktown High School. To reach from the post office in Ducktown, go north on Highway 68 for 1.4 miles. Leave car and walk S 50° W up ridge for 370 feet to station. Station is 60 feet N 28° E from and 6 feet lower than top of ridge, 75 feet N 47° E from a small oak on top of ridge. A 1- by 1-inch angle iron.
 GRID POSITION (Tennessee): X = 2,481,242.6; Y = 244,440.1 (T-4)
 ELEVATION: 1736 feet (T-5)

MLB 1517 (TVA, 1953; Cherokee County, North Carolina)
 Located approximately 8 miles northwest from Hiwassee Dam. To reach from intersection Highway 68 and Joe Brown Highway at Coker Creek Post Office (John B. Murphy's store), go south on Joe Brown Highway for 3.8 miles crossing Unico Mountain to sharp bend in road under transmission line and station site. Station is under northeast one of transmission line 45 feet northeast of center line of bend in road. Station is a 1- by 1-inch angle iron.
 Reference Mark 1: 31.85 feet N 7° E to a triangular blaze on a 10-inch pine tree.
 Reference Mark 2: 24.45 feet N 14° E to a triangular blaze on a 4-inch oak tree.
 Reference Mark 3: 30.45 feet N 55° E to a triangular blaze on a 6-inch pine tree.
 GRID POSITION (Tennessee): X = 2,512,577.8; Y = 306,382.1 (T-4)
 ELEVATION: 1831 feet (T-5)

MLB 1518 (TVA, 1953; Polk County, Tennessee)
 Located approximately 11 miles north from Fanner, Tennessee. To reach from Post Office in Fanner, go 9 miles north on Highway 68 to a T-road northwest just north of Coker Creek. Turn left at this road and go 0.8 mile to Y-road

intersection on ridge. Turn left and follow ridge road for 1.5 miles to T-road left. Turn left at this road and go about 300 feet to sharp curve in road and station site. Station is 20 feet north from road. A 1- by 1-inch angle iron.
 Reference Mark 1: 27.24 feet S 30° W to a triangular blaze on a 10-inch black gum tree.
 Reference Mark 2: 5.68 feet S 35° E to a triangular blaze on 12-inch oak.
 Reference Mark 3: 16.15 feet N 83° E to a triangular blaze on a 5-inch pine tree.
 GRID POSITION (Tennessee): X = 2,489,785.7; Y = 302,855.8 (T-4)
 ELEVATION: 1912 feet (T-5)

MLB 1519 (TVA, 1953; Polk County, Tennessee)
 Located on Cataska Mountain. To reach from Post Office in Fanner, go 9.0 miles north on Highway 68 to T-road northwest. Turn left, northwest, and go 0.8 mile to Y-road intersection on ridge. Turn left and follow ridge road 4.1 miles to Y-road intersection. Turn right, keeping main road for 2.3 miles to road intersection near top of mountain. Turn left on old road, along power line for 0.4 mile to top of small knoll and station site. Station is 10.9 feet S 25° W from road intersection on knoll. A 1- by 1-inch angle iron.
 Reference Mark 1: 12.95 feet S 58° W to a triangular blaze on an 8-inch pine tree.
 Reference Mark 2: 29.30 feet N 09° W to a triangular blaze on a 14-inch oak tree.
 Reference Mark 3: 34.40 feet S 70° E to a triangular blaze on a 20-inch oak tree.
 GRID POSITION (Tennessee): X = 2,474,364.6; Y = 300,162.9 (T-4)
 ELEVATION: 1618 feet (T-5)

MLB 1520 (TVA, 1953; Polk County, Tennessee)
 Located approximately 6.6 miles north from Fanner. To reach from Post Office in Fanner, go 6.6 miles north on Highway 68 to top of Unico Mountain. Leave car and walk approximately 1.3 miles northeast along old trail to gap in mountain. Turn right up ridge to high point and station site. Station is a 1- by 1-inch angle iron.
 Reference Mark 1: 22.3 feet S 36° W to a triangular blaze on 10-inch white oak tree.
 Reference Mark 2: 35.6 feet N 52° W to a triangular blaze on a 24-inch oak.
 Reference Mark 3: 32.2 feet N 05° E to a triangular blaze on a 12-inch oak.
 GRID POSITION (Tennessee): X = 2,503,031.1; Y = 302,881.0 (T-4)
 ELEVATION: 2184 feet (T-5)

MLB 1521 (TVA, 1953; Polk County, Tennessee)
 Located approximately 14 miles northwest via road from Fanner. To reach from Post Office in Fanner, go 9.0 miles north on Highway 68 to T-road northwest, turn left, northwest, and go up ridge 0.8 mile to Y-road intersection on ridge. Turn left and follow ridge road 4.1 miles to Y-road intersection. Turn right and go about 1000 feet to saddle in ridge. Leave car and go left, southwest, up ridge about 1200 feet to top of ridge and station site, and 42.5 feet S 10° E from and 5.0 feet lower than top of ridge. A 1- by 1-inch angle iron.
 Reference Mark 1: 8.75 feet S 50° E to a tack in triangular blaze on 7-inch oak tree.
 Reference Mark 2: 25.25 feet S 85° E to a tack in triangular blaze on a 10-inch oak tree.
 Reference Mark 3: 23.20 feet N 23° W to a tack in triangular blaze on a 14-inch oak tree.
 GRID POSITION (Tennessee): X = 2,479,573.9; Y = 297,538.7 (T-4)
 ELEVATION: 1712 feet (T-5)

MS 583 (TVA, 1941; Polk County, Tennessee)
 Located in the west central portion of Quadrangle 133, Southwest. To reach from Cleveland, Tennessee, drive 14 miles east to Parksville, thence 22.55 miles to highway intersection near Ducktown. Turn south on Highway No. 68 and go 2.0 miles, turn right and go west crossing river bridge, taking right hand road and driving west in all 4.20 miles to Tumbling Creek Road. Turn right on Tumbling Creek Road and drive northwest 2.10 miles to faint road north. Follow same through park gate 2.30 miles to saddle in ridge. Park car and walk 0.30 mile east along center line of ridge to east end of ridge and station. A 1- by 1-inch angle iron stamped "MS 583".
 Reference Mark 1: 1.57 feet S 72° E to nail and washer in 10-inch pine.
 Reference Mark 2: 10.08 feet S 12° W to nail and washer in 4-inch pine.
 Reference Mark 3: 9.99 feet N 66° W to nail and washer in 3-inch birch.
 GRID POSITION (Tennessee): X = 2,458,379.6; Y = 240,111.9 (T-3)
 ELEVATION: 1749.258 feet or 533.175 meters (T-2)

MS 584 (TVA, 1941; Polk County, Tennessee)
 Located in the west central portion of Quadrangle 133, Southwest. To reach from Cleveland, Tennessee, drive 14.0 miles to Parksville, thence 13.55 miles to Ocoee Dam No. 2. Cross footbridge and follow path up left bank of river 1.85 miles to intersection of Ocoee River and Steep Rocky Branch, climb up nose of steep ridge on west side of branch following center line for 0.70 mile to east stone of three tops of ridge. Station is on the lowest one of the three. A 1- by 1-inch angle iron stamped "MS 584".
 Reference Mark 1: 1.16 feet S 9° W to nail and washer in 10-inch pine.
 Reference Mark 2: 11.43 feet N 15° E to nail and washer in 10-inch pine.
 Reference Mark 3: 26.13 feet N 87° E to nail and washer in 3-inch pine.
 GRID POSITION (Tennessee): X = 2,455,905.2; Y = 246,952.5 (T-3)

MS 585 (TVA, 1941; Polk County, Tennessee)
 Located in the southwest portion of Quadrangle 133. To reach from Cleveland, drive 14.0 miles to Parksville, thence 13.55 miles to Ocoee Dam No. 2, cross footbridge and follow path up left bank of river 0.80 mile to intersection of Ocoee River and Little Gassaway Creek. Climb up backbone of ridge on right bank of creek for approximately 900 feet to high point and station. A 1- by 1-inch angle iron stamped "MS 585".
 Reference Mark 1: 2.05 feet S 2° W to nail and washer in 10-inch pine.
 Reference Mark 2: 15.66 feet N 67° W to nail and washer in 8-inch pine.
 Reference Mark 3: 9.21 feet N 35° E to nail and washer in 10-inch pine.
 GRID POSITION (Tennessee): X = 2,453,826.2; Y = 251,170.5 (T-3)
 ELEVATION: 1519.134 feet or 463.033 meters (T-2)

N 16 (USC&GS, 1933; Polk County, Tennessee)
 Located about 0.1 mile south along the Louisville & Nashville Railroad from the station at Turtletown, about 480 feet south of the center of a road crossing, at bridge 54, in the top of the south stone abutment, 10.5 feet west of the west rail, and 3.8 feet lower than the rail. A bronze USC&GS tablet stamped "N 16 1933".
 ELEVATION: 1509.502 feet or 460.097 meters (C-2)

0 LRH 1 (TVA, 1947; Polk County, Tennessee)
Located 8.5 miles west of Ducktown, 3.0 miles southwest of U. S. Highway 64, on top and south end of Ocoee No. 3 Dam, on property of US-TVA, and set on dam axis 52 feet from southeast abutment. A plain bronze tablet (ground-off property marker) set in precast monument, stamped "US TVA 0 LRH 1".
GRID POSITION (Tennessee): X = 2,459,209.7; Y = 239,542.6 (T-3)
Grid Azimuth to 0 LRH 2 (distance 500.8 feet): 123°35'20".
Grid Azimuth to 0 LRH 3 (distance 168.6 feet): 188°55'20".
Grid Azimuth to MON. B (distance 135.9 feet): 303°35'20".
ELEVATION: 1443.06 feet (T-3)

0 LRH 2 (TVA, 1947; Polk County, Tennessee)
Located 8.5 miles west of Ducktown, 3.0 miles southwest of U. S. Highway 64, on top and north end of Ocoee No. 3 Dam, on US-TVA property, set on dam axis, 60.9 feet from north abutment, and 29.4 feet southeast from stiff leg derrick. A plain bronze tablet (ground-off property marker) set in precast monument, stamped "US TVA 0 LRH 2".
GRID POSITION (Tennessee): X = 2,458,792.5; Y = 239,819.7 (T-3)
Grid Azimuth to 0 LRH 1 (distance 500.8 feet): 303°35'20".
ELEVATION: 1443.01 feet (T-3)

0 LRH 3 (TVA, 1947; Polk County, Tennessee)
Located 8.5 miles west of Ducktown, 3.0 miles southwest of U. S. Highway 64, on west shoulder of access road to Ocoee No. 3 Dam, on US-TVA property, about 175 feet downstream from Ocoee No. 3 Dam, 26.5 feet from entrance to parking lot. A plain bronze tablet (ground-off property marker) set in precast monument, stamped "US TVA 0 LRH 3".
Reference Mark 1: 3.2 feet Northeast to washer on 5th guard post.
Reference Mark 2: 2.3 feet Southeast to washer on 4th guard post.
Reference Mark 3: 7.1 feet South to washer on expansion joint of curb.
GRID POSITION (Tennessee): X = 2,459,235.8; Y = 239,709.2 (T-3)
Grid Azimuth to 0 LRH 1 (distance 168.6 feet): 8°55'20".
Grid Azimuth to 0 LRH 4 (distance 440.9 feet): 214°11'50".
ELEVATION: 1391.04 feet (T-3)

0 LRH 4 (TVA, 1947; Polk County, Tennessee)
Located 8.5 miles west of Ducktown, 3.0 miles southwest of U. S. Highway 64, on west side of access road to Ocoee No. 3 Dam, on US-TVA property. Station is between guard post, about 450 feet downstream from Ocoee No. 3 Dam, and 300 feet southeast of Ocoee River. A plain bronze tablet (ground-off property marker) set in precast monument stamped "US TVA 0 LRH 4".
GRID POSITION (Tennessee): X = 2,459,483.6; Y = 240,073.8 (T-3)
Grid Azimuth to 0 LRH 3 (distance 440.9 feet): 34°11'50".
ELEVATION: 1380.92 feet (T-3)

OSR 1 (TVA, 1941; Polk County, Tennessee)
Located approximately 200 feet upstream from Ocoee No. 3 Dam, on U. S. Forest Service property. Monument is set 10 inches above ground on steep slope, in woods on right bank of river, approximately 15 feet east of pool contour, 3.7 feet level northeast of 6-inch oak, and 2.8 feet level south of 14-inch pine. A standard TVA tablet stamped "OSR 1 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southeast of monument.
GRID POSITION (Tennessee): X = 2,459,102.4; Y = 239,251.6 (T-4)
ELEVATION: 1444.5 feet (T-4)

OSR 2 (TVA, 1941; Polk County, Tennessee)
Located 250 feet south of Ocoee No. 3 Dam, approximately 0.80 mile due west of Sheep Top Mountain, on US-TVA property. To reach from Copperhill, take State Highway 40 west for 1.5 miles, turn left on 30-foot dirt road, travel said road across Rogers Bridge and continue about 4.5 miles to Ocoee No. 3 Dam site, on left bank of river. Monument set 10 inches above ground on steep slope in woods, on left bank of river, approximately 10 feet west of pool contour, 14.1 feet (slope distance) southeast of 30-inch chestnut oak, 24.0 feet level northeast of 14-inch chestnut oak, and 15 feet east of rock ledge painted "PBM". A standard TVA tablet stamped "OSR 2 1941" and set in precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.
GRID POSITION (Tennessee): X = 2,458,543.1; Y = 239,518.5 (T-4)
ELEVATION: 1440.5 feet (T-4)

OSR 3 (TVA, 1941; Polk County, Tennessee)
Located on point of first bend in river, approximately 2000 feet upstream from Ocoee No. 3 Dam, on U. S. Forest Service property. Monument is set 10 inches above ground on slight slope, approximately 10 feet east of pool contour and in fern covered opening in pine woods and on right bank of river. Monument is on point of turn in contour, 13.0 feet (slope distance) southwest of 16-inch pine, and 32.0 feet (slope distance) northwest of 8-inch pine. A standard TVA tablet stamped "OSR 3 1941" and set in concrete monument. Steel post with control marker sign set 1 foot east of monument.
GRID POSITION (Tennessee): X = 2,458,750.8; Y = 237,941.5 (T-4)
ELEVATION: 1440.4 feet (T-4)

OSR 4 (TVA, 1941; Polk County, Tennessee)
Located 0.35 mile above Ocoee No. 3 Dam between Johnson Branch and Laurel Branch, 1000 feet upstream from mouth of Johnson Branch, on US-TVA property. To reach from Copperhill, take State Highway 40 west for about 1.5 miles, turn left on 30-foot dirt road, cross Rogers Bridge and continue on said road about 4.0 miles, on left bank of river, to bend in road between Johnson and Laurel Branches, walk down steep slope 0.45 mile to station. Monument set 6 inches above ground on steep slope in woods, about 10 feet west of pool contour, approximately 15 feet north from east end of row of large boulders lying up and down slope, 8.0 feet (slope distance) northeast of 8-inch maple, 15.2 feet (slope distance) southeast of 30-inch chestnut oak. A standard TVA tablet set in precast concrete monument and stamped "OSR 4 1941". Steel post with control marker sign set 1.4 feet west of monument.
GRID POSITION (Tennessee): X = 2,458,187.7; Y = 237,965.5 (T-4)
ELEVATION: 1439.8 feet (T-4)

OSR 5 (TVA, 1941; Polk County, Tennessee)
Located on right bank of Ocoee No. 3 Reservoir, approximately 400 feet east of small ravine, opposite mouth of Laurel Branch, on U. S. Forest Service property. Monument is set 6 inches above ground on steep rocky slope, approximately 5 feet north of top of washed out bank, approximately 250 feet upstream from small hollow, 10.0 feet (slope distance) of 6-inch oak, 16.4 feet level west of 4-inch pine, 13.0 feet S 45° E from 6-inch stump, 21.4 feet S 25° E from 10-inch oak, and

32.6 feet S 60° E from 12-inch oak. A standard TVA tablet stamped "OSR 5 1941" and set in concrete monument. Steel post with control marker sign set 1 foot north of monument.
GRID POSITION (Tennessee): X = 2,460,508.2; Y = 237,180.6 (T-4)
Grid Azimuth to OSR 6 (distance 748.0 feet): 7°09'00".
ELEVATION: 1440.3 feet (T-4)

OSR 6 (TVA, 1941; Polk County, Tennessee)
Located on left bank of Ocoee No. 3 Reservoir, about 450 feet upstream from mouth of Laurel Branch, on US-TVA property. To reach from Copperhill, take State Highway 40 west for about 1.5 miles, turn left on 30-foot dirt road, cross Rogers Bridge and continue on said dirt road for 3.4 miles to east side of Laurel Branch. Walk down Laurel Branch to mouth. Monument is set 6 inches above ground and on steep slope in laurel thicket, approximately 6 feet south of pool contour on left bank of river, 16.5 feet level west of 3-inch triple oak, and 9.4 feet (slope distance) south of 3-inch laurel bush. A standard TVA tablet stamped "OSR 6 1941" and set in precast concrete monument. Steel post with control marker sign set 1 foot south of monument.
GRID POSITION (Tennessee): X = 2,460,415.1; Y = 236,438.4 (T-4)
Grid Azimuth to OSR 5 (distance 748.0 feet): 187°09'00".
ELEVATION: 1441.2 feet (T-4)

OSR 7 A (TVA, ? ; Polk County, Tennessee)
Located 5.6 miles (airline) northwest of Copperhill. Pipe is set on steep slope in woods on right bank of river, approximately 10 feet northeast of top of bank, 3.1 feet level north of 5-inch oak, 2.0 feet level northeast of 32-inch maple. Station is a 3-inch aluminum pipe filled with concrete. Steel post with control marker sign set 1 foot northeast of pipe.
NOTE: Monument "OSR 7" washed out and found lying on bank. Pipe probably set by Hydraulic Data on same bearing extended 12 feet northeast of old monument and 5.5 feet higher.
ELEVATION: 1445.2 feet (T-4)

OSR 8 (TVA, 1941; Polk County, Tennessee)
Located on left bank, approximately 1500 feet north and west of Tumbling Creek Road, approximately 1000 feet east of ravine, on property of U. S. Forest Service, set 6 inches above ground, on steep slope in laurel thicket, approximately 8 feet south of pool contour, on left bank of river, approximately 100 feet upstream from large rock outcrop at water's edge on point of ridge, 4.3 feet level northeast of 5-inch gum, 5.6 feet level southeast of 2-inch maple, 24.25 feet from 6-inch oak, 24.83 feet from 12-inch oak, and 13.00 feet from 3-inch persimmon. A standard TVA tablet stamped "OSR 8 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument.
GRID POSITION (Tennessee): X = 2,462,690.5; Y = 236,502.5 (T-4)
ELEVATION: 1440.9 feet (T-4)

OSR 9 (TVA, 1941; Polk County, Tennessee)
Located on left bank of Ocoee No. 3 Lake, at mouth of Tumbling Creek. To reach from Copperhill, take State Highway 68 west for about 1.5 miles, turn left on 30-foot dirt road, cross Rogers Bridge and continue about 2.6 miles to right bank of Tumbling Creek. Monument set in oak woods, 10 inches above ground and on slight slope, approximately 12 feet southeast of pool contour and on right bank of Tumbling Creek opposite mouth of hollow, 13.2 feet west of northwest end of large rock outcrop, 6.7 feet level north of 12-inch oak, 8.2 feet level southwest of 5-inch pine, 20 feet southwest of rock ledge painted "PBM", 7 feet northwest of painted 12-inch oak, and 50 feet east of east side of 30-foot dirt road. A standard TVA tablet stamped "OSR 9 1941" and set in precast concrete monument. Steel post with control marker sign set 1 foot southeast of monument.
GRID POSITION (Tennessee): X = 2,463,326.1; Y = 234,438.2 (T-4)
Grid Azimuth to OSR 10 (distance 335.5 feet): 115°27'40".
ELEVATION: 1439.1 feet (T-4)

OSR 10 (TVA, 1941; Polk County, Tennessee)
Located on left bank of Ocoee No. 3 Reservoir, at mouth of Tumbling Creek, on property of US-TVA. To reach from Copperhill, take State Highway 68 west for about 1.5 miles, turn left on 30-foot dirt road, cross Rogers Bridge and continue about 2.7 miles to left bank of Tumbling Creek, set 6 inches above ground on top of old road bank in mouth of flat hollow, approximately 30 feet northwest of pool contour and on left bank of Tumbling Creek, approximately 150 feet upstream from small hollow, about 11 feet northwest of center line of old road, 3.7 feet level north of 12-inch pine, 16.0 feet level east of 10-inch twin oak, 25 feet southeast of 7-inch painted pine, 28 feet southeast of 6-inch painted pine, and 2.0 feet northwest of northwest road shoulder. A standard TVA tablet stamped "OSR 10 1941" and set in precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.
GRID POSITION (Tennessee): X = 2,463,022.9; Y = 234,582.5 (T-4)
Grid Azimuth to OSR 9 (distance 335.5 feet): 295°27'40".
ELEVATION: 1440.1 feet (T-4)

OSR 11 (TVA, 1941; Polk County, Tennessee)
Located right bank of Ocoee No. 3 Lake, across the lake from mouth of Tumbling Creek. Monument is set flush with ground on steep slope in oak woods, approximately 10 feet northeast of pool contour, about 75 feet downstream from small draw, 9.7 feet (slope distance) southeast of 6-inch white oak, 14.1 feet (slope distance) southwest of 12-inch red oak. A standard TVA tablet stamped "OSR 11 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.
GRID POSITION (Tennessee): X = 2,464,357.7; Y = 235,075.3 (T-4)
ELEVATION: 1440.9 feet (T-4)

OSR 12 (TVA, 1941; Polk County, Tennessee)
Located on left bank of Ocoee No. 3 Reservoir, 900 feet upstream from Tumbling Creek, on property of US-TVA. To reach from Copperhill, take State Highway 68 west for about 1.5 miles, turn left on 30-foot dirt road, cross Rogers Bridge, and continue about 2.4 miles to east side of big bend in road. Follow Long Branch to Tumbling Creek embayment. Monument set on slight slope in pine woods, 6 inches above ground, 15 feet southwest of pool contour, on left bank of river, about 700 feet upstream from where contour turns up Tumbling Creek, 7.8 feet (level) north of 8-inch pine, 7.7 feet (level) southeast of 12-inch pine, 150 feet south of south side of road, 11 feet southeast of 8-inch painted pine, and 9 feet south of 6-inch painted pine. A standard TVA tablet stamped "OSR 12 1941" and set in precast concrete monument. Steel post with control marker sign set 1 foot southwest of monument.
GRID POSITION (Tennessee): X = 2,464,103.7; Y = 234,295.1 (T-4)
ELEVATION: 1440.4 feet (T-4)

OSR 13 (TVA, 1941; Polk County, Tennessee) Located on right bank of Ocoee No. 3 Reservoir, opposite mouth of Grassy Creek, about 40 feet downstream from small hollow, about 150 feet upstream from small hollow and on slight ridge, 17 feet northeast of pool contour, 29.0 feet (level) west of 8-inch white oak, 32.0 feet (level) south of 6-inch white oak, 11.5 feet (level) east of 5-inch pine. A standard TVA tablet stamped "OSR 13 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (Tennessee): X = 2,466,609.6; Y = 233,704.9 (T-4)
ELEVATION: 1440.3 feet (T-4)

OSR 14 RESET (TVA, ? ; Polk County, Tennessee) Located 4.7 miles (airline) northwest of Copperhill. Pipe is set approximately 12 feet southwest of pool contour and on steep slope and in small oak timber. It is on left bank of reservoir and approximately 500 feet downstream from mouth of Grassy Creek, 2110 feet east of white painted cross on 6-foot rock bluff, 6.2 feet (level) south of 4-inch white oak, 6.3 feet (slope distance) north of 8-inch white oak. A 3-inch aluminum pipe filled with concrete and stamped "OSR 14". Steel post with control marker sign set 1 foot southwest of pipe. NOTE: Bearing to "OSR 13" is N 22° 30' E and "OSR 14 RESET" is 7.0 feet higher than "OSR 13". Apparently this is a reset marker reset by Hydraulic Data Branch.

ELEVATION: 1447.3 feet (T-4)

OSR 15 (TVA, 1941; Polk County, Tennessee) Located on right bank of Ocoee No. 3 Reservoir, approximately 1200 feet downstream from mouth of Brush Creek, on property of US Forest Service. Monument about 20 feet northwest of pool contour and on steep slope, about 10 feet north of small washout, 9.4 feet southwest of 4-inch locust, and 11.5 feet northwest of clump of 2-inch maples. A standard TVA tablet stamped "OSR 15 1941" and set in concrete monument. Steel post with control marker sign set 1 foot west of monument.

GRID POSITION (Tennessee): X = 2,467,492.5; Y = 234,027.9 (T-4)
ELEVATION: 1444.2 feet (T-4)

OSR 16 (TVA, 1941; Polk County, Tennessee) Located on left bank of Ocoee No. 3 Reservoir, approximately 1300 feet downstream from mouth of Brush Creek, on property of U.S. Forest Service. Monument is 5 feet southeast of pool contour, on steep slope, about 200 feet upstream from slight hollow, 3.0 feet (slope distance) southwest of 4-inch sourwood, 17.0 feet (slope distance) northwest of 3-inch hickory, 6.9 feet (level) North of 2-inch oak, 24.17 feet S 50° W from 6-inch maple, and 16.87 feet N 20° W from 6-inch maple. A standard TVA tablet stamped "OSR 16 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southeast of monument.

GRID POSITION (Tennessee): X = 2,468,113.6; Y = 233,737.2 (T-4)
ELEVATION: 1438.9 feet (T-4)

OSR 17 (TVA, 1941; Polk County, Tennessee) Located approximately 500 feet downstream from mouth of Brush Creek, on U.S. Forest Service property, on grassy slope about 40 feet northwest of pool contour, set on right bank of river and about 100 feet downstream from where contour turns up Brush Creek, 23.4 feet (level) west of 2-inch sourwood, 63.4 feet (slope distance) from 4-inch sassafras. A standard TVA tablet stamped "OSR 17 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GRID POSITION (Tennessee): X = 2,467,544.9; Y = 235,379.2 (T-4)
Grid Azimuth to DN 131 (distance 74.8 feet): 197°26'00".
ELEVATION: 1444.4 feet (T-4)

OSR 18 (TVA, 1941; Polk County, Tennessee) Located on the left bank of Ocoee No. 3 Reservoir, directly opposite mouth of Brush Creek, on U. S. Forest Service property, on steep slope in heavy brush, 10 feet southeast of toe of slope, 18.1 feet (slope distance) northwest of 4-inch oak, and 6.5 feet (level) southeast of 4-inch oak. A standard TVA tablet stamped "OSR 18 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southeast of monument.

GRID POSITION (Tennessee): X = 2,468,250.3; Y = 235,059.8 (T-4)
ELEVATION: 1440.5 feet (T-4)

OSR 19 (TVA, 1941; Polk County, Tennessee) Located 0.25 mile due south of gaging station on U. S. Highway 64, 3.1 miles due west of Ducktown. To reach from Ducktown go west along U. S. Highway 64 to Brush Creek, take old dirt road 250 feet east of Brush Creek Highway bridge, ford Brush Creek and continue in car along right bank of Brush Creek 0.28 mile to monument. Monument is set on gentle grassy slope and 15 feet northwest of pool contour, about 350 feet upstream from transmission line and on right bank of Brush Creek, 12.8 feet level northeast of 2-inch pine, 20.1 feet (level) southwest of 2-inch sourwood, 90 feet east of painted 8-inch Spanish oak, and 86 feet south of painted 6-inch white oak. A standard TVA tablet stamped "OSR 19 1941" and set in precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GRID POSITION (Tennessee): X = 2,467,532.3; Y = 237,186.6 (T-4)
Grid Azimuth to OSR 20 (distance 449.0 feet): 299°47'00".
ELEVATION: 1440.6 feet (T-4)

OSR 20 (TVA, 1941; Polk County, Tennessee) Located on left bank of Ocoee No. 3 Reservoir, approximately 1300 feet south and west of U. S. Highway 64, on Brush Creek, on U. S. Forest Service property. Monument is set on gentle slope about 15 feet east of pool contour, about 300 feet upstream from transmission line and on left bank of Brush Creek, 20.1 feet (slope distance) northwest of 10-inch white oak, 7.3 feet (level) east of 5-inch pine, 43.58 feet S 70° W of 12-inch oak, 19.66 feet N 40° W of 14-inch oak, and 37.91 feet N 20° E of 3-inch oak. A standard TVA tablet stamped "OSR 20 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southeast of monument.

GRID POSITION (Tennessee): X = 2,467,922.0; Y = 236,963.5 (T-4)
Grid Azimuth to OSR 19 (distance 449.0 feet): 119°47'00".
ELEVATION: 1440.4 feet (T-4)

OSR 21 (TVA, 1941; Polk County, Tennessee) Located on right bank of Ocoee No. 3 Reservoir, approximately 1000 feet upstream from or east of mouth of Brush Creek, on U. S. Forest Service property. Monument is set on grassy slope about 12 feet north of pool contour and on right bank of river, 900 feet upstream from where contour turns up Brush Creek, 38.4 feet (slope distance) southwest of 3-inch sourwood, 39.2 feet (slope distance) southeast of 4-inch gum, 96.25 feet from 6-inch oak, and 82.17 feet from 5-inch

oak. A standard TVA tablet stamped "OSR 21 1941" and set in concrete monument. Steel post with control marker sign set 1 foot north of monument. GRID POSITION (Tennessee): X = 2,468,788.0; Y = 236,075.8 (T-4)
Grid Azimuth to DN 130 (distance 919.7 feet): 66°27'50".
ELEVATION: 1440.1 feet (T-4)

OSR 22 (TVA, 1941; Polk County, Tennessee) Located on left bank of Ocoee No. 3 Reservoir, approximately 500 feet east of mouth of Brush Creek, on U. S. Forest Service property. Monument is set 12 inches above ground and on grassy slope, about 100 feet upstream from small hollow, about 15 feet south from pool contour, 26.2 feet (level) west of 4-inch gum, and 16.2 feet (slope distance) northeast of 8-inch sourwood. A standard TVA tablet stamped "OSR 22 1941" and set in concrete monument. Steel post with control marker sign set 1 foot south of monument.

GRID POSITION (Tennessee): X = 2,468,702.8; Y = 235,269.6 (T-4)
ELEVATION: 1440.5 feet (T-4)

OSR 23 (TVA, 1941; Polk County, Tennessee) Located on right bank of Ocoee No. 3 Reservoir, approximately 500 feet north and west of small creek and ravine, on U. S. Forest Service property. Monument is set on steep slope in scrub woods about 15 feet northeast of pool contour, set on right bank of river about 150 feet upstream from 12-foot rock bluff, 24.4 feet southeast of 12-inch oak, 36.6 feet (slope distance) west of 5-inch oak, and 56.5 feet (slope distance) southwest of 12-inch post oak. A standard TVA tablet stamped "OSR 23 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (Tennessee): X = 2,471,282.5; Y = 235,218.0 (T-4)
ELEVATION: 1441.0 feet (T-4)

OSR 24 (TVA, 1941; Polk County, Tennessee) Located midway between two small creeks and approximately 3000 feet upstream from or south and east of mouth of Brush Creek, on U. S. Forest Service property. Monument is set on right bank of river on steep slope, in laurel thicket about 5 feet southwest of pool contour, 7.8 feet (level) east of 12-inch oak, 13.5 feet (slope distance) northwest of 4-inch maple, and 16.0 feet (slope distance) west of 6-inch cucumber tree. A standard TVA tablet stamped "OSR 24 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GRID POSITION (Tennessee): X = 2,470,882.2; Y = 234,484.3 (T-4)
ELEVATION: 1441.3 feet (T-4)

OSR 25 (TVA, 1941; Polk County, Tennessee) Located on right bank of Ocoee No. 3 Reservoir, approximately 250 feet west of small ravine and approximately 1300 feet northwest from Louisville and Nashville railroad, and on U. S. Forest Service property. Monument is set on steep slope on right bank of river, in brush on south edge of telephone line clearing, 15 feet northeast of pool contour, 40 feet southwest of center line of slag road, 25.0 feet (level) south of 8-inch oak, 16.5 feet (level) west of telephone angle pole. A standard TVA tablet stamped "OSR 25 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (Tennessee): X = 2,474,349.5; Y = 234,077.5 (T-4)
ELEVATION: 1441.3 feet (T-4)

OSR 26 (TVA, 1941; Polk County, Tennessee) Located on left bank of Ocoee No. 3 Reservoir, on point of bend of river, approximately 1000 feet north and west of Louisville and Nashville Railroad, also approximately 1700 feet downstream from Patterson Ridge, on U. S. Forest Service property. Monument is set on steep slope in brush, about 10 feet south of toe of slope and swamp on left bank of river, 7.6 feet (level) northeast of 2-inch maple, 5.1 feet (level) northwest of 4-inch maple. A standard TVA tablet stamped "OSR 26 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GRID POSITION (Tennessee): X = 2,473,932.5; Y = 233,424.1 (T-4)
ELEVATION: 1440.0 feet (T-4)

OSR 27 (TVA, 1941; Polk County, Tennessee) Located on right bank of Ocoee River, approximately in line with Patterson Ridge and approximately 50 feet east of Louisville and Nashville track. Monument is set on right side of river on top of railroad cut inside of curve of railroad at north end of small rock cut, about 5 feet above railroad, 26.5 feet (level) east of center line of railroad, 9.7 feet (level) north of telephone pole, 6.1 feet (level) northwest of face of 6-inch concrete fence post, 38.25 feet from concrete fence post, and 18.65 feet from concrete fence post. A standard TVA tablet stamped "OSR 27 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southeast of monument.

GRID POSITION (Tennessee): X = 2,474,357.4; Y = 232,068.3 (T-4)
Grid Azimuth to OSR 28 (distance 590.6 feet): 107°39'00".
ELEVATION: 1447.1 feet (T-4)

OSR 28 (TVA, 1941; Polk County, Tennessee) Located on left bank of Ocoee River, approximately 250 feet from old house, northerly and approximately 500 feet downstream from Patterson Ridge, on U. S. Forest Service property. Monument is set 4 inches above ground on steep grassy slope, about 200 feet upstream from narrow neck in river, 69.5 feet (level) southwest of 5-inch oak, and 46.4 feet (slope distance) southeast of 5-inch oak. A standard TVA tablet stamped "OSR 28 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GRID POSITION (Tennessee): X = 2,473,794.6; Y = 232,247.3 (T-4)
Grid Azimuth to OSR 27 (distance 590.6 feet): 287°39'00".
ELEVATION: 1441.3 feet (T-4)

OSR 29 (TVA, 1941; Polk County, Tennessee) Located on right bank of Ocoee River, approximately 50 feet from Louisville and Nashville Railroad, north and east, approximately 1/2 mile downstream from USGS gaging station, on top of an 8-inch railroad cut near downstream end of railroad curve, about 30 feet southeast of center line of gully, about 6 feet above railroad, about 60 feet east of center of handcar siding, 39.0 feet east of 18-inch steel pipe culvert, 5.8 feet (level) southwest of face of 5-foot concrete fence post, 26.5 feet northeast of center line of railroad, 57.85 feet from a concrete fence post, and 20.80 feet from a concrete fence post. A standard TVA tablet stamped "OSR 29 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (Tennessee): X = 2,474,918.0; Y = 230,933.7 (T-4)
Grid Azimuth to OSR 30 (distance 171.2 feet): 338°04'50".
ELEVATION: 1447.5 feet (T-4)

OSR 30 (TVA, 1941; Polk County, Tennessee)

Located on left bank of Ocoee River, approximately 2200 feet downstream from USGS gaging station, on U. S. Forest Service property. Monument is 10 inches above ground and on steep slope, in heavy brush, about 12 feet southwest of toe of slope and swamp, 13.4 feet (level) southeast of 3-inch maple, 8.9 feet (level) southwest of 5-inch white oak, 39.12 feet from 12-inch maple stump, 49.83 feet from 18-inch oak stump, and 31.45 feet from 6-inch maple. A standard TVA tablet stamped "OSR 30 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GRID POSITION (Tennessee): X = 2,474,310.5; Y = 230,581.6 (T-4)

Grid Azimuth to OSR 29 (distance 171.2 feet): 158°04'50".

ELEVATION: 1441.3 feet (T-4)

OSR 31 (TVA, 1941; Polk County, Tennessee)

Located on right bank of Ocoee River, approximately 20 feet west of Louisville and Nashville Railroad, approximately 1500 feet downstream from USGS gaging station, at north end of a small cut on the side of cut, 23.5 feet west of center line of railroad and 4 feet below tracks about 135 feet south of small branch, 63.6 feet southwest of face of 6-foot concrete fence post, 63.5 feet northwest of telephone pole. A standard TVA tablet stamped "OSR 31 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GRID POSITION (Tennessee): X = 2,475,742.9; Y = 229,595.9 (T-4)

ELEVATION: 1442.1 feet (T-4)

OSR 32 (TVA, 1941; Polk County, Tennessee)

Located on left bank of Ocoee River, approximately 1400 feet downstream from USGS gaging station, on U. S. Forest Service property. Monument is set in grassy flat in brush, about 20 feet east of toe of main slope, about 20 feet west of pool contour on left bank of river, 8.7 feet (level) northwest of 4-inch maple, and 21.2 feet (level) southeast of 4-inch oak. A standard TVA tablet stamped "OSR 32 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GRID POSITION (Tennessee): X = 2,475,149.1; Y = 229,494.5 (T-4)

Grid Azimuth to OSR 33 (distance 854.3 feet): 333°32'50".

ELEVATION: 1439.7 feet (T-4)

OSR 33 (TVA, 1941; Polk County, Tennessee)

Located on right bank of Ocoee River, approximately 130 feet north and west of Louisville and Nashville Railroad and approximately 500 feet downstream from USGS gaging station. Monument is set on grassy flat about 50 feet southeast of pool contour and top of river bank, about 200 feet upstream from mouth of small branch, 39.6 feet (level) northeast of 2-inch willow, 28.9 feet (level) east of 2-inch willow, about 100 feet south along railroad to point, and about 100 feet from branch south along railroad to point on silt range extended. A standard TVA tablet stamped "OSR 33 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (Tennessee): X = 2,475,529.6; Y = 228,729.8 (T-4)

Grid Azimuth to OSR 32 (distance 854.3 feet): 153°32'50".

Grid Azimuth to OSR 34 (distance 279.3 feet): 105°23'20".

ELEVATION: 1440.0 feet (T-4)

OSR 34 (TVA, 1941; Polk County, Tennessee)

Located on left bank of Ocoee River, approximately 500 feet downstream from USGS Gaging Station, on U. S. Forest Service property. Monument is set 4 inches above ground, about 4 feet northwest of toe of main slope and about 18 feet northwest of pool contour on left bank of river, about 200 feet upstream from where contour turns up small hollow, 34.7 feet (slope distance) south of 12-inch oak, and 21.8 feet (slope distance) northeast of 8-inch hickory. A standard TVA tablet stamped "OSR 34 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GRID POSITION (Tennessee): X = 2,475,260.3; Y = 228,804.0 (T-4)

Grid Azimuth to OSR 33 (distance 279.3 feet): 285°23'20".

ELEVATION: 1440.7 feet (T-4)

OSR 35 RESET (USGS, 1931; RESET, TVA, 1955; Polk County, Tennessee)

Located on the right bank of the Ocoee River, 2.6 miles southwest from the center of Ducktown and 2.8 miles northwest from the center of Copperhill, 1/2 mile downstream from Rogers Bridge, 14.4 feet north (downstream) from white painted cross on north face of round concrete gage house, about 15 feet shoreward from right edge of river, 44.8 feet (level) west of 6-inch twin locust, 37.0 feet (level) northwest of 6-inch maple. A standard TVA tablet stamped "OSR 35 RESET 1955" and set in concrete monument, 4 inches above ground. Steel post with control marker sign set 1 foot northeast of monument.

NOTE: Old monument GAGE BM 1 (McHarg) was found under about 3 feet of sand.

Top of monument was 10.24 feet above gage zero rather than 10.33 feet as described. Monument could have sunk 0.09 foot in this sand. A new 190 lb. monument with ground-off property tablet (2- by 2-inch) set in top was centered over and set on top of old monument. Top of new monument is 13.27 feet above gage zero.

GRID POSITION (Tennessee): X = 2,475,272.1; Y = 227,833.7 (T-4)

Grid Azimuth to OSR 36 (distance 221.8 feet): 91°17'50".

ELEVATION: 1440.41 feet (T-3)

OSR 36 (TVA, 1941; Polk County, Tennessee)

Located on left bank of Ocoee River straight across from USGS gaging station, approximately 1/2 mile downstream from Rogers Bridge, on U. S. Forest Service property. Monument is 4 inches above ground, about 1 foot west of main slope, about 7 feet west of pool contour, directly across river from gage house, 12.3 feet (slope distance) northeast of 3-inch maple, and 10.2 feet (level) south of 6-inch sourwood. A standard TVA tablet stamped "OSR 36 1941" and set in concrete monument. Steel post with control marker sign set 1 foot west of monument.

GRID POSITION (Tennessee): X = 2,475,050.3; Y = 227,838.7 (T-4)

Grid Azimuth to OSR 35, RESET (distance 221.8 feet): 271°17'50".

ELEVATION: 1440.6 feet (T-4)

OSR 37 (TVA, 1941; Polk County, Tennessee)

Located 2.5 miles northwest of the center of Copperhill, 2.75 miles southwest from the center of Ducktown, at top right bank Ocoee River, 275 feet south from railroad, 1000 feet east from Rogers Bridge, 325 feet south from whistle signal on railroad and is in open field, in flat sandy bottom, about 20 feet north of pool contour on right bank of river, about 1500 feet (airline) upstream from old McHarg gauge house, about 200 feet upstream from point opposite whistle post, 8.5 feet (level) east of 2-inch wild cherry, and 54.1 feet (level) west of 8-inch forked wild cherry. A standard TVA tablet stamped "OSR 37 1941" and set

in top of concrete monument. Steel post with control marker sign set 1 foot north of monument.

NOTE: There has been evidence of monument being covered by as much as 0.5 foot of silt.

GRID POSITION (Tennessee): X = 2,476,076.8; Y = 226,549.2 (T-4)

Grid Azimuth to OSR 38 (distance 192.9 feet): 3°31'30".

Grid Azimuth to R 16 (distance 1082.4 feet): 264°12'40".

ELEVATION: 1440.6 feet (T-4)

OSR 38 (TVA, 1941; Polk County, Tennessee)

Located 2.5 miles northwest from the center of Copperhill, 2.8 miles southwest from the center of Ducktown, 1000 feet west from Rogers Bridge, 100 feet north from Ocoee River road, 100 feet east from fence line to river in small sage field. Monument set in cleared flat on left bank of Ocoee River, about 4 feet south of top of bank, about 100 feet northwest of power pole, 55.8 feet (level) north of 6-inch locust, and 17.5 feet (level) southeast of 5-inch locust. A standard TVA tablet stamped "OSR 38 1941" and set in concrete monument. Steel post with control marker sign set 1 foot south of monument.

GRID POSITION (Tennessee): X = 2,476,065.0; Y = 226,356.7 (T-4)

Grid Azimuth to OSR 37 (distance 192.9 feet): 183°31'30".

ELEVATION: 1442.1 feet (T-4)

OSR 39 (TVA, 1941; Polk County, Tennessee)

Located 2.4 miles northwest from the center of Copperhill, 2.6 miles southwest from the center of Ducktown, on property of J. H. Rogers. Monument is 380 feet west from Rogers Bridge, 10 feet east from left bank drain, 100 feet south from railroad. Monument set in flat on right bank of Ocoee River, about 15 feet north of pool contour, about 12 feet east of top of left bank of branch, 14.8 feet (level) northeast of 4-inch persimmon, 73.1 feet (level) southeast of center of south end of 36-inch steel pipe culvert, and 30.5 feet (level) northeast of 3-inch hickory. A standard TVA tablet stamped "OSR 39 1941" and set in concrete monument. Steel post with control marker sign set 1 foot north of monument.

GRID POSITION (Tennessee): X = 2,476,986.6; Y = 226,583.8 (T-4)

ELEVATION: 1443.0 feet (T-4)

OSR 40 (TVA, 1941; Polk County, Tennessee)

Located 2.4 miles northwest from the center of Copperhill, 2.7 miles southwest from the center of Ducktown. Monument is set in grown up flat on left bank of Ocoee River and about 3 feet south of bank, about 400 feet downstream from Rogers Bridge, 12.1 feet (level) northeast of 6-inch wild cherry, and 10.0 feet (level) southwest of 3-inch wild cherry. A standard TVA tablet stamped "OSR 40 1941" and set in concrete monument. Steel post with control marker sign set about 1 foot south of monument. Top of post is 5.1 feet above monument.

NOTE: There has been evidence of monument being covered by as much as 1 foot of silt.

GRID POSITION (Tennessee): X = 2,476,999.0; Y = 226,371.9 (T-4)

ELEVATION: 1442.0 feet (T-4)

OSR 41 (TVA, 1941; Polk County, Tennessee)

Located 800 feet upstream from Rogers Bridge, set approximately 10 inches under ground, set on steep railroad fill on right bank of river, about 12 feet from water's edge, 21.0 feet (level) southeast of center line of railroad, and 48.4 feet southwest of telephone pole. A standard TVA tablet stamped "OSR 41 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

Reference Mark 1: 13.16 feet East to nail and shiner in top crosstie.

Reference Mark 2: 6.31 feet North to nail and shiner in top crosstie.

Reference Mark 3: 16.19 feet Northwest to nail and shiner in top crosstie.

NOTE: Monument is subject to silting over.

GRID POSITION (Tennessee): X = 2,477,957.4; Y = 226,979.0 (T-4)

ELEVATION: 1447.2 feet (T-4)

OSR 42 (TVA, 1941; Polk County, Tennessee)

Located on left bank of Ocoee River, approximately 175 feet south of Louisville and Nashville Railroad, approximately 800 feet upstream from Rogers Bridge. Monument is set 3 inches above ground in open pasture, about 40 feet southeast of river. Monument is set on top of slope, 134.0 feet (level) northwest of 6-inch persimmon, 21.7 feet (level) southwest of 2-inch persimmon, and 12.4 feet (level) southeast of 2-inch sourwood. A standard TVA tablet stamped "OSR 42 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southeast of monument.

GRID POSITION (Tennessee): X = 2,478,030.5; Y = 226,764.9 (T-4)

Grid Azimuth to OSR 44 (distance 647.5 feet): 282°37'00".

ELEVATION: 1446.8 feet (T-4)

OSR 43 (TVA, 1941; Polk County, Tennessee)

Located on right bank of Ocoee River, approximately 50 feet north and east of Louisville and Nashville Railroad, approximately 2000 feet upstream from Rogers Bridge. Monument is set 4 inches above ground in open pasture, about 12 feet northeast of top of river bank, about 300 feet west of white house on road, 125 feet upstream from deep gully, about 300 feet upstream from whistle post on railroad, 56.8 feet southwest of power pole, and 103.4 feet (level) southeast of telephone pole. A standard TVA tablet stamped "OSR 43 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (Tennessee): X = 2,478,812.2; Y = 226,866.7 (T-4)

Grid Azimuth to OSR 44 (distance 285.5 feet): 31°34'50".

ELEVATION: 1445.3 feet (T-4)

OSR 44 (TVA, 1941; Polk County, Tennessee)

Located on left bank of Ocoee River, approximately 2000 feet upstream from Rogers Bridge, approximately 200 feet south and west of Louisville and Nashville Railroad. Monument set in open pasture, about 45 feet southwest of top of left bank of river, about 30 feet downstream from small drain, 148.9 feet (level) southeast of power pole, 86.2 feet (level) north of 4-inch persimmon, and 22.7 feet (level) west of 14-inch maple. A standard TVA tablet stamped "OSR 44 1941" and set in concrete monument, projecting 4 inches above ground. Steel post with control marker sign set about 1 foot southwest of monument.

GRID POSITION (Tennessee): X = 2,478,662.7; Y = 226,623.5 (T-4)

Grid Azimuth to OSR 43 (distance 285.5 feet): 211°34'50".

Grid Azimuth to OSR 42 (distance 647.5 feet): 102°37'00".

ELEVATION: 1445.6 feet (T-4)

P 16 (USC&GS, 1933; Polk County, Tennessee)

Located at Harbuck, on the Louisville and Nashville Railroad, about 1500

feet southwest of milepost L 372, between the track and a highway, 53.4 feet north of the center line of a dirt road, and 35 feet northwest of the northwest rail of the main track. A standard disk stamped "P 16 1933" and set in the top of a concrete post, painted on post "EM 1667.9".

ELEVATION: 1667.336 feet or 508.205 meters (C-2)

P LRH 1 (TVA, 1947; Polk County, Tennessee)

Located 8 miles west of Ducktown, in center line of access bridge to powerhouse, on US-TVA property. Tablet is set at north end of bridge, about 400 feet north of Ocoee No. 3 Powerhouse, and about 75 feet south of U. S. Highway 64. A plain bronze tablet (ground-off property marker) stamped "US TVA P LRH 1" and set in concrete monument.

GRID POSITION (Tennessee): X = 2,454,352.1; Y = 252,449.3 (T-3)

Grid Azimuth to P LRH 2 (distance 614.9 feet): 38°12'40".

Grid Azimuth to P LRH 3 (distance 841.2 feet): 37°42'00".

P LRH 2 (TVA, 1947; Polk County, Tennessee)

Located 8 miles west of Ducktown, about 700 feet south of U. S. Highway 64, on US-TVA property. Tablet is set in southwest gate stop of southwest gate to main substation, and 75 feet southeast of Ocoee No. 3 Powerhouse. A plain bronze tablet (ground-off property marker) stamped "US TVA P LRH 2" and set in concrete monument.

GRID POSITION (Tennessee): X = 2,453,971.6; Y = 251,966.1 (T-3)

Grid Azimuth to P LRH 1 (distance 614.9 feet): 218°12'40".

ELEVATION: 1144.90 feet (T-3)

P LRH 3 (TVA, 1947; Polk County, Tennessee)

Located 8 miles west of Ducktown, 1000 feet southwest of U. S. Highway 64, on US-TVA property, in top of valve house at head of penstock. A plain bronze tablet (ground-off property marker) stamped "US TVA P LRH 3" and set in concrete monument.

GRID POSITION (Tennessee): X = 2,453,837.7; Y = 251,783.7 (T-3)

Grid Azimuth to P LRH 1 (distance 841.2 feet): 217°42'00".

ELEVATION: 1314.45 feet (T-3)

PACK (USGS, 1933; Cherokee County, North Carolina)

Located 23 miles by road west-southwest of Murphy, 7 miles northeast of Copperhill, Tennessee, about 5 1/2 miles east and 1 mile north of Ducktown, Tennessee, about 4 1/4 miles north and 2.1 miles east of corner common to North Carolina, Tennessee and Georgia, and on summit of higher of two peaks of highest mountain in Pack Mountain Range. Summit is about 1100 feet long, extending northwest and southeast. Ridge is very sharp, ranging in width from 100 feet at north to 25 feet at south. Station is on southeast end of summit, about 30 feet northwest of break in ridge to a gap to the southwest, and 32 feet west of 15-inch white-oak tree. To reach from Louisville & Nashville Railroad station in Murphy, go west 0.5 mile on Route 10 to junction with Route 28, turn right onto Route 28, proceed 8.7 miles to junction with Route 294, proceed 9.6 miles on Route 294 to Postell post office on right side of road, continue 0.75 mile on Route 294 to church and school on left side of road, turn left onto dirt road marked "Wehutt Road", go 1.0 mile, turn right, go 0.75 mile, turn left, go 1.25 miles, turn right, continue 1/4 mile to schoolhouse, turn left onto rough wagon road, and follow about 1/2 mile to home of Mr. Hughs and end of truck travel. Proceed on foot southwest along steep wagon road, pass last house, continue about 0.15 mile, turn right onto path which leads south to spring and continue on up slope about 1/2 mile over very rough trail to summit. Total climb is about 1-1/2 miles. Station mark is standard U. S. Geological Survey disk in drill hole in rock outcrop or boulder. Reference marks are standard reference disks in rock outcrops or boulders. No. 1 is on edge of summit, 2 feet northeast of 12-inch water oak tree, and 11.339 meters (37.20 feet) from station in geodetic azimuth 5°29'. No. 2 is on western edge of summit, 15 feet west of 12-inch water oak tree, and 8.301 meters (27.23 feet) from station in geodetic azimuth 98°15'. A 10-inch black oak tree used as signal by U. S. Geological Survey is at edge of break in ridge to west, and 17.87 feet from station in geodetic azimuth 72°58'. Fire lookout tower on Sassafras Mountain is about 6 miles from station in geodetic azimuth 111°51'16".

Report on Condition (TVA, April 1940): Tablet gone, granite boulder still in place.

GEODETIC POSITION: Lat. = 35°02'59.600"; Long. = 84°17'10.135" (C-1)

To Station	Geodetic Azimuth (from South)	Distances	
		Log. Meters	Meters
Cohutta	56°02'08.38"	4,501,554.7	31,736.18
Bean	122 30 52.56	4,468,321.0	29,398.22
Laurel	221 07 27.10	4,560,706.0	36,366.88
Lance	286 13 16.56	4,428,658.1	26,832.31

GRID POSITION (North Carolina): X = 418,656.09; Y = 515,185.31 (C-1)

Grid Azimuth to Sassafras Mountain Fire Tower: 114°54'20".

GRID POSITION (Tennessee): X = 2,512,995.79; Y = 243,982.18 (C-1)

Grid Azimuth to Sassafras Mountain Fire Tower: 110°51'04".

GRID POSITION (Georgia West): X = 464,239.48; Y = 1,837,092.99 (C-1)

ELEVATION: 3459 feet (T-5)

Q 16 (TVA, 1933; Polk County, Tennessee)

Located at Postelle, Tennessee, about 142 feet north of the Louisville & Nashville Railroad station, just north of a crossing, 27.2 feet east of the east rail, 2.6 feet south of the southeast corner of a stock gap, and about 1 foot higher than the rail. A standard TVA tablet stamped "Q 16 1933" and set in the top of a concrete monument. Steel post with control marker sign set 1.0 feet north of monument.

GRID POSITION (Tennessee): X = 2,477,981.3; Y = 240,235.1 (T-3)

Grid Azimuth to DN 86 (distance 2104.2 feet): 354°45'10".

ELEVATION: 1565.482 feet or 477.160 meters (C-2)

Q 39 (TVA, 1939; Polk County, Tennessee)

Located 2.0 miles northwest of Copperhill, about 2.5 miles (airline) southwest of Ducktown, 300 feet upstream from mouth of North Potato Creek, on north-east abutment of railroad bridge No. 72 over North Potato Creek, and on right bank of North Potato Creek. Chiseled square on concrete top of stone abutment.

ELEVATION: 1456.890 feet or 444.061 meters (T-2)

R 1 (USGS, 1931; Polk County, Tennessee)

Located 9.5 miles south of Coker Creek, 40 feet west of old Murphy road, and near head of Wamble Branch, in boulder. A standard USGS tablet stamped "R 1 1931".

NOTE: Searched for but not recovered, April 1957.

ELEVATION: 1723.32 feet (G-3)

R 2 (USGS, 1931; Monroe County, Tennessee)

Located 5.5 miles south of Coker Creek, 40 feet northeast of Trail N, about 1 mile south of Dalton Creek School, on boulder. A standard USGS tablet stamped "R 2 1931".

NOTE: Searched for but not recovered, May 1953 and April 1957.

ELEVATION: 1560.21 feet (G-3)

R 16 (USC&GS, 1933; Polk County, Tennessee)

Located about 2.4 miles northwest along the Louisville & Nashville Railroad from Copperhill, 1.6 miles north of Isabella Junction, about 135 feet west of Rogers Bridge over Ocoee River, about 70 feet north of the north edge of the river, 20.5 feet south of the south rail, just south of a row of poles, about 8 feet lower than the rail, and 4.6 feet west of telephone pole. A standard USC&GS tablet stamped "R 16 1933" and set in the top of a concrete post. Steel post with control marker sign set approximately 1 foot south of monument.

GRID POSITION (Tennessee): X = 2,477,153.8; Y = 226,658.4 (T-3)

Grid Azimuth to DN 101 (distance 378.3 feet): 86°08'40".

Grid Azimuth to OSR 37 (distance 1082.4 feet): 84°12'40".

ELEVATION: 1447.789 feet (C-2)

R LRH 4 (TVA, 1947; Polk County, Tennessee)

Located 9.5 miles west of Ducktown, 4.5 miles upstream from Ocoee No. 2 Powerhouse, on north shoulder of U. S. Highway 64, about 400 feet upstream from Ocoee No. 2 Dam, 60 feet north of a small branch. A plain bronze tablet (ground-off property marker) stamped "US TVA R LRH 4" and set in concrete monument.

Reference Mark 1: 16.8 feet S 55° E to washer in 6-inch pine.

Reference Mark 2: 12.25 feet N 85° E to washer in 8-inch pine.

GRID POSITION (Tennessee): X = 2,452,000.8; Y = 254,966.4 (T-3)

Grid Azimuth to R LRH 5 (distance 542.4 feet): 109°09'20".

ELEVATION: 1133.07 feet (T-3)

R LRH 5 (TVA, 1947; Polk County, Tennessee)

Located 9.5 miles west of Ducktown, 4.5 miles upstream from Ocoee No. 2 Powerhouse, on north shoulder of U. S. Highway 64, and 50 feet upstream from north end of Ocoee No. 2 dam. A plain bronze tablet (ground-off property marker) stamped "US TVA R LRH 5" and set in concrete monument.

Reference Mark 1: 7.4 feet S 5° E to painted spot on rock.

Reference Mark 2: 7.6 feet S 30° W to painted spot on rock.

Reference Mark 3: 8.5 feet S 40° W to painted spot on rock.

GRID POSITION (Tennessee): X = 2,451,488.4; Y = 255,144.4 (T-3)

Grid Azimuth to R LRH 4 (distance 542.4 feet): 289°09'20".

Grid Azimuth to R LRH 5A (distance 423.2 feet): 8°33'10".

ELEVATION: 1131.52 feet (T-3)

R LRH 5A (TVA, 1947; Polk County, Tennessee)

Located 9.5 miles west of Ducktown, 4.5 miles upstream from Ocoee No. 2 Powerhouse, about 400 feet south of U. S. Highway 64, and on top of south end of Ocoee No. 2 Dam. A plain bronze tablet (ground-off property marker) stamped "US TVA R LRH 5A" and set in concrete.

GRID POSITION (Tennessee): X = 2,451,425.5; Y = 254,726.0 (T-3)

Grid Azimuth to R LRH 5 (distance 423.2 feet): 188°33'10".

ELEVATION: 1127.38 feet (T-3)

RM M 72 (USGS, 1923; Polk County, Tennessee)

Located about 0.8 mile south along the Louisville & Nashville Railroad from Turtletown, at bridge 56, on the top of the south stone abutment, 7 feet west of the west rail, and 3 feet lower than the rail. A chiseled square.

ELEVATION: 1526.057 feet or 465.143 meters (C-2)

RN 188 A (TENN. STATE HWY. DEPT., 1964; Polk County, Tennessee)

Located 1 mile north of Farners, Tennessee, on State Highway 68, on new curved bridge over Hiwassee River. Tablet is on the right bank end of the upstream sidewalk, and 8 inches higher than bridge floor, 1.6 feet northeast of right bank end of bridge floor. A 4-inch bronze Tennessee Highway Department bench mark tablet stamped "RN 188 A".

GRID POSITION (Tennessee): X = 2,502,721.8; Y = 286,776.7 (T-3)

ELEVATION: 1142.55 feet (T-3)

RN 188 B (TVA, 1964; Polk County, Tennessee)

Located 1 mile north of Farners, Tennessee, on State Highway 68, on new curved concrete bridge over Hiwassee River. Tablet set in upstream sidewalk over upstream end of left bank abutment of bridge, and 31.3 feet northwest of west corner of upstream pier of Louisville & Nashville Railroad trestle. A standard TVA 4-inch control tablet with raised center and stamped "RN 188 B".

GRID POSITION (Tennessee): X = 2,503,204.5; Y = 286,685.6 (T-3)

ELEVATION: 1151.56 feet (T-3)

RN 188 C (TENN. STATE HWY. DEPT., 1964; Polk County, Tennessee)

Located 1 mile north of Farners, Tennessee, on State Highway 68, on new curved bridge over Hiwassee River. Tablet is on the extreme left bank end of the downstream sidewalk of bridge, 8 inches higher than floor of approach slab, 21.1 feet southeast of east corner of downstream pier of Louisville & Nashville Railroad trestle, 7.1 feet northeast of center of manhole, and 0.9 foot southwest of edge of sidewalk. A 4-inch bronze Tennessee Highway Department bench mark tablet and stamped "RN 188 C".

ELEVATION: 1155.25 feet (T-3)

RN 199 (TVA, 1941; Polk County, Tennessee)

Located 0.5 mile east of Apalachia Bridge over Hiwassee River, on east edge of old road, 1000 feet southeast from Tennessee Highway 68, 160 feet south of edge of field, 50 feet east of Shadwick Creek. A standard TVA tablet stamped "RN 199 1941" and set in rock.

Reference Mark 1: 24.86 feet N 25° W to tack in 10-inch blackgum.

Reference Mark 2: 16.88 feet North to tack in 10-inch maple.

Reference Mark 3: 6.98 feet S 27° W to tack in 6-inch white oak.

GRID POSITION (Tennessee): X = 2,505,746.0; Y = 286,365.3 (T-3)

ELEVATION: 1261.47 feet (T-3)

RT HR 112 (TVA, 1936; Polk County, Tennessee)

Located on right bank of Hiwassee River, 0.9 mile east of Apalachia, 15 feet north of Shuler Creek Road, 1600 feet east of intersection of Shuler Creek and Farners-Tellico Plains roads, 150 feet north of river, 5 feet northwest of a wire fence corner, 5.5 feet southwest of 5-inch pine, 14.0 feet south of 8-inch pine, and 13.2 feet southeast of 4-inch pine. A standard TVA tablet stamped "HR 112" and set in a concrete monument. Steel post with control marker

sign set approximately 1 foot north of monument.

GRID POSITION (Tennessee): X = 2,503,564.6; Y = 289,846.5 (T-3)
 Grid Azimuth to RT HR 113 (distance 670.7 feet): 18°39'30"
 GRID POSITION (North Carolina): X = 412,492.1; Y = 561,595.0 (T-3)
 Grid Azimuth to RT HR 113 (distance 670.7 feet): 22°42'50"
 ELEVATION: 1157.156 feet or 352.702 meters (T-2)

RT HR 113 (TVA, 1936; Polk County, Tennessee)

Located 0.8 mile east of Apalachia, on the Hiwassee River, 40 feet north of Shuler Creek road, 1000 feet east of intersection of Shuler Creek-Farner-Tellico Plains roads, 150 feet north of river, 35 feet west of a wire fence, 8.8 feet east of 10-inch sweet gum, 28.0 feet southwest of 14-inch poplar, and 18.0 feet south of small branch. A standard TVA tablet stamped "HR 113 1936" and set in concrete monument. Steel post with control marker sign set approximately 1 foot north of monument.

GRID POSITION (Tennessee): X = 2,503,350.1; Y = 289,211.0 (T-3)
 Grid Azimuth to RT HR 112 (distance 670.7 feet): 198°39'30"
 GRID POSITION (North Carolina): X = 412,233.2; Y = 560,976.2 (T-3)
 Grid Azimuth to RT HR 112 (distance 670.7 feet): 202°42'50"
 ELEVATION: 1159.611 feet or 353.450 meters (T-2)

RT HR 143 (TVA, 1935; Polk County, Tennessee)

Located 4.4 miles north of Farner, 2.4 miles north along road to Tellico Plains from intersection of Unaka-Farner and Farner-Tellico Plains roads, 25 feet east of center line of Farner-Tellico Plains road. Station is located on property of Cherokee National Forest and is at a sharp right angle turn in road, 46.5 feet southeast of 14-inch red oak, 42.0 feet northeast of 6-inch pine, 12.3 feet southwest of 8-inch pine. A standard TVA tablet stamped "HR 143 1935" and set in concrete monument. Steel post with control marker sign set 3.6 feet northeast of monument.

GRID POSITION (Tennessee): X = 2,502,189.5; Y = 295,599.0 (T-3)
 GRID POSITION (North Carolina): X = 411,527.2; Y = 567,429.2 (T-3)
 ELEVATION: 1727 feet (T-5)

RT HR 144 (TVA, 1936; Polk County, Tennessee)

Located 0.4 mile downstream from Apalachia, 11.4 feet from center line of Louisville and Nashville Railroad. Station is at rock bluff, and 11.6 feet from a telephone pole. A standard TVA tablet stamped "HR 144 1936" and set in a concrete monument.

Reference Mark 1: 7.22 feet to tack in crosstie.
 Reference Mark 2: 9.37 feet to tack in crosstie.
 GRID POSITION (Tennessee): X = 2,498,976.0; Y = 289,332.5 (T-3)
 Grid Azimuth to RT HR 145 (distance 544.4 feet): 220°21'10"
 ELEVATION: 1123.531 feet or 342.453 meters (T-2)

RT HR 145 (TVA, 1936; Polk County, Tennessee)

Located at Womble Creek Damsite, on right bank of Hiwassee River, in center line of abandoned road, on property of John Williams. Station is 0.25 mile below home of John Ledford, about 25 feet from right bank of river, about 1000 feet upstream from mouth of Womble Creek, 21.8 feet south of 8-inch white oak, and 800.0 feet downstream from downstream end of old field. A standard TVA tablet stamped "HR 145 1936" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (Tennessee): X = 2,499,330.0; Y = 289,747.6 (T-3)
 Grid Azimuth to RT HR 144 (distance 544.4 feet): 40°21'10"

RT HR 146 (TVA, 1936; Cherokee County, North Carolina)

Located 4.4 miles by road from Farner, via Farner-Unaka Road, then about 0.3 mile up river road, on north bank of river, about 100 feet north of north end of a 3-acre field, in old ditch line, 19.6 feet west of 12-inch white pine, 20.1 feet southwest of 10-inch pine, and 28.8 feet northeast of 10-inch maple. A standard TVA tablet stamped "HR 146 1936" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

Report on Condition (TVA, 1949): Monument has been hit by grader and is leaning 0.5 foot west.
 GRID POSITION (North Carolina): X = 418,769.2; Y = 562,074.8 (T-3)
 Grid Azimuth to RT HR 147 (distance 831.4 feet): 343°34'50"
 GRID POSITION (Tennessee): X = 2,509,792.6; Y = 290,768.9 (T-3)
 Grid Azimuth to RT HR 147 (distance 831.4 feet): 339°31'30"
 ELEVATION: 1171.011 feet or 356.925 meters (T-2)

RT HR 147 (TVA, 1936; Cherokee County, North Carolina)

Located 4.4 miles by road from Farner, on Farner-Unaka Road, 0.5 mile up river road on north bank of river, 0.4 mile upstream from house on south end of a 3-acre field, about 30 feet southwest of grown up 3-acre field, 33 feet northeast of intersection of center line of river road and woods road, 12.5 feet northeast of 6-inch oak, 10.1 feet northwest from 8-inch oak, and 8.75 feet southeast of 8-inch oak. A standard TVA tablet stamped "HR 147 1936" and set in concrete monument. Top flush with the ground. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (North Carolina): X = 419,004.0; Y = 561,277.4 (T-3)
 Grid Azimuth to RT HR 146 (distance 831.4 feet): 163°34'50"
 GRID POSITION (Tennessee): X = 2,510,083.3; Y = 289,990.1 (T-3)
 Grid Azimuth to RT HR 146 (distance 831.4 feet): 159°31'30"
 ELEVATION: 1177.550 feet or 358.917 meters (T-2)

RT 568 MH (TVA, 1936; Polk County, Tennessee)

Located 1.8 miles southeast of Reliance, on Louisville and Nashville Railroad from Knoxville to Atlanta. Station is 23 feet north of center line of Louisville and Nashville Railroad, 250 feet south of Hiwassee River, on top of north edge of second bank, 195 feet east of milepost L-347, 150 feet northwest of house, opposite path leading from house to railroad, and 88.3 feet west of telephone pole. A standard TVA tablet stamped "RT 568 MH 1936" and set in top of large rock. Steel post with control marker sign set 1 foot north of monument.

Reference Mark 1: 19.57 feet S 02° W to tack in north end of crosstie.
 Reference Mark 2: 38.90 feet N 42° W to tack in 7-inch apple tree.
 Reference Mark 3: 20.33 feet N 04° E to tack in fence post.
 GRID POSITION (Tennessee): X = 2,455,151.3; Y = 290,548.4 (T-3)
 Grid Azimuth to Center line of Forestry Observatory tower on top of Chilhowee Mountain: 98°56'40"
 Grid Azimuth to Tip of first telephone pole east of large boulder on north side of railroad (distance 1100 feet): 90°06'00"

RT 587 MH (TVA, 1936; Polk County, Tennessee)

Located 3.9 miles from Reliance, on the Louisville and Nashville Railroad from Knoxville to Atlanta, 1900 feet southeast of Milepost L-349, 100 feet

southeast of large rock between railroad and left bank of river, 60 feet south of left bank of Hiwassee River, 165 feet southeast of motor car siding, 12 feet south of center line of Louisville and Nashville Railroad, and on southwest corner of south end of 4- by 10-foot stone culvert. A standard TVA tablet stamped "RT 587 MH 1936" and set in headwall of culvert.

Reference Mark 1: 11.56 feet N 19° W to tack in south end of crosstie.
 Reference Mark 2: 11.49 feet N 62° E to tack in south end of crosstie.
 Reference Mark 3: 13.59 feet S 47° W to tack in south end of 3-foot maple.
 GRID POSITION (Tennessee): X = 2,459,124.0; Y = 296,117.6 (T-3)
 Grid Azimuth to last visible telephone pole down river: 123°37'10"
 Grid Azimuth to last visible telephone pole up river: 284°56'40"
 ELEVATION: 826.606 feet or 251.950 meters (T-2)

RT 600 MH (TVA, 1936; Polk County, Tennessee)

Located 5 miles east of Reliance, on left bank of Hiwassee River, on Louisville and Nashville Railroad from Knoxville to Atlanta, 120 feet west of left bank of Hiwassee River, 3000 feet south of milepost L-350, 75 feet north of railroad sign. Station is in center line of small railroad cut 8 feet east of east rail, and at upper end of small cleared field. A standard TVA tablet stamped "RT 600 MH 1936" and set in boulder. Steel post with control marker sign set 1 foot east of monument.

Reference Mark 1: 19.18 feet S 86° E to tack in telephone pole.
 Reference Mark 2: 10.60 feet S 21° W to tack in east end of crosstie.
 Reference Mark 3: 9.38 feet N 71° W to tack in east end of crosstie.
 GRID POSITION (Tennessee): X = 2,463,311.0; Y = 292,615.7 (T-3)
 Grid Azimuth to last telephone pole up river (distance 600 feet): 338°13'40"
 ELEVATION: 855.080 feet or 260.629 meters (T-2)

RT 620 MH (TVA, 1936; Polk County, Tennessee)

Located 7.5 miles east of Reliance, and on left bank of Hiwassee River, on the Louisville and Nashville Railroad from Knoxville to Atlanta. Station is 50 feet southwest of left bank of Hiwassee River, 3000 feet east of Milepost L-352, 165 feet southeast of motor car siding, 160 feet southeast of railroad sign R.S., 130 feet southeast of large boulder between railroad and river. Station is 9 feet southwest of southwest rail on top of rock, 0.5 foot lower than rail, and under an overhanging rock. A standard TVA tablet stamped "RT 620 MH 1936" and set in overhanging rock.

Reference Mark 1: 11.15 feet N 66° E to tack in southwest end of tie.
 Reference Mark 2: 10.00 feet N 24° W to tack in southwest end of tie.
 Reference Mark 3: 6.16 feet S 09° W to cross on rock.
 GRID POSITION (Tennessee): X = 2,469,963.2; Y = 292,981.9 (T-3)
 Grid Azimuth to top of R.S. sign post (distance 160 feet): 119°57'40"
 Grid Azimuth to center of top cross-arm bolt on last visible telephone pole up river: 275°02'10"
 ELEVATION: 895.645 feet or 272.993 meters (T-2)

RT 629 MH (TVA, 1936; Polk County, Tennessee)

Located 1.2 miles west of McFarland, on Louisville and Nashville Railroad from Knoxville to Atlanta, 1400 feet east of concrete culvert under railroad, 1000 feet west of Milepost L-354, 30 feet east of motor car siding, 5.0 feet south of south rail and 2 feet lower, on south end of west stone abutment of railroad bridge No. 33 over Butler Branch, 2.03 feet northwest of south tip of bridge sign "No. 33". A standard TVA tablet stamped "RT 629 MH 1936" and set in stone abutment.

Reference Mark 1: 2.85 feet S 14° E to tack in south end of tie.
 Reference Mark 2: 6.31 feet S 45° W to tack in south end of tie.
 GRID POSITION (Tennessee): X = 2,475,588.2; Y = 290,940.9 (T-3)
 Grid Azimuth to top center of cross-arm bolt of last visible telephone pole down river: 87°12'00"
 Grid Azimuth to center of cross-arm bolt on last visible telephone pole up river: 248°03'20"
 ELEVATION: 935.779 feet or 285.226 meters (T-2)

RT 653 MH (TVA, 1936; Polk County, Tennessee)

Located 1.5 miles east from McFarland, on left bank of Hiwassee River, on the Louisville and Nashville Railroad from Knoxville to Atlanta. Station is 50 feet west of east end of small railroad cut and level with top of rail, opposite small vertical rock cut on south side of railroad, 2380 feet east of milepost L-356, 100 feet east of R.S. sign, 85 feet east of motor car siding. Tablet is cemented in small rock ledge which stands about 1 foot above ditch line opposite east end of 30-foot rock cut. A standard TVA tablet stamped "RT 653 MH 1936" and set in rock ledge. Steel post with control marker sign set 2.6 feet north of tablet.

Reference Mark 1: 28.8 feet Southwest to painted cross on culvert.
 Reference Mark 2: 17.6 feet Northwest to painted cross on rock.
 GRID POSITION (Tennessee): X = 2,485,786.1; Y = 288,744.0 (T-3)
 Grid Azimuth to Top bolt in R.S. sign: 98°01'00"
 Grid Azimuth to top cross-arm bolt in last visible telephone pole up river: 270°37'00"
 ELEVATION: 1020.733 feet or 311.120 meters (T-2)

S 26 (TVA, 1941; Polk County, Tennessee)

Located approximately 0.3 mile downstream from bridge over Rough Creek, on large rock outcrop, and on left bank of Rough Creek. Chiseled square.
 ELEVATION: 1445.689 feet or 440.647 meters (T-2)

S 28 (TVA, 1941; Polk County, Tennessee)

Located about 0.3 mile upstream from railroad bridge over Butler Branch, on left side of Butler Branch, and 25 feet downstream from second fork. Chiseled square on rock in branch.
 ELEVATION: 1013.052 feet or 308.779 meters (T-2)

S 33 (TVA, 1941; Polk County, Tennessee)

Located in approximately center line of penstock from surge tank to railroad, approximately 4 feet above ground, and bluff is approximately 300 feet above railroad. Chiseled circle in first sheer bluff from railroad.
 ELEVATION: 1027.724 feet or 313.251 meters (T-2)

SURGE TANK (TVA, 1943; Polk County, Tennessee)

Located on Apalachia Tunnel, near Apalachia Powerhouse.
 GEODETIC POSITION: Lat. = 35°10'56.24"; Long. = 84°26'09.50" (T-4)

To Station	Azimuth	Back Azimuth	Log. Meters	Miles
Bean F.T.	95°32'44.2	275°28'30.6"	4.048833	7.0
Ironsburg F.T.	234 01 50.3	54 04 24.8	3.922916	5.2

To Station	Geodetic Azimuths		Distances	
	Azimuth	Back Azimuth	Log. Meters	Miles
Waucheesi F.T.	242°14'22.1"	62°21'54.2"	4.349912	13.9
Beaverdam F.T.	255 04 51.5	75 15 36.6	4.466397	13.2
Little Frog F.T.	351 36 42.7	171 37 15.5	3.995758	6.2

GRID POSITION (Tennessee): X = 2,467,384.3; Y = 291,416.9 (T-4)

T 9 (USGS, 1933; Cherokee County, North Carolina)
 Located 4.3 miles northwest of Sweet Gum, 52 feet north from road fork north-east, 750 feet southwest of Mt. Mariah Church, on property of Poly Bell, in marble post 5 inches under ground. A standard USGS tablet stamped "T 9 1933".
 Reference Mark is 20.9 feet southwest of the tablet in east root of oak tree; a copper nail and washer, 17.2 feet higher than the tablet.
 NOTE: Searched for but not recovered, May 1957.
 ELEVATION: 1729.9 feet (G-4)

T 14 (USGS, 1933; Cherokee County, North Carolina)
 Located near Fields of the Wood, 175 feet southwest of North Carolina Highway 294, on property of J. F. Bryant, about 200 feet east of Bryant's farm-house, 55 feet southwest of center line of road, on west side of small stream, in top of large boulder. A standard tablet stamped "T 14 1933", tree painted "1628.7".
 Reference Mark is 105 feet north of tablet on east side of road, in rock; a chiseled square 4.0 feet higher than the tablet.
 NOTE: Searched for but not recovered, May 1953.
 ELEVATION: 1628.6 feet (G-4)

T 15 (USGS, 1933; Cherokee County, North Carolina)
 Located 1.1 miles west of Patrick post office, 2.4 miles southeast of Farmer, 50 feet south of center line of road, in small clearing on south side of road. A standard USGS tablet in top of marble post stamped "T 15 1933", tree painted "PEM 1684.75".
 Reference Mark is 25 feet north of tablet in root of 24-inch oak tree. A copper nail and washer 0.5 foot lower than the tablet.
 NOTE: Searched for but not recovered, April 1957.
 ELEVATION: 1684.6 feet (G-4)

TEP 20 (USGS, 1937; Polk County, Tennessee)
 Center of transmission tower.
 GEODETIC POSITION: Lat. = 35°04'44.11"; Long. = 84°29'34.82" (G-3)

To Station	Geodetic Azimuth		Distances	
	Azimuth	Back Azimuth	Log. Meters	Miles
Little Frog L.O.	255°52'01"	75°54'32"	3.835876	4.3

771.34 USGS (USGS, 1923; Polk County, Tennessee)
 Located 0.6 mile east along Louisville and Nashville Railroad from Reliance, on Louisville and Nashville Railroad from Knoxville to Atlanta, 140 feet west of Milepost L-346, and on top of the north side of east abutment of Bridge No. 28 over Ellis Creek. Chiseled square and four parallel marks, painted "RT 558 MH 1923".
 Reference Mark 1: 5.24 feet S 45° E to tack in north end of crosstie.
 Reference Mark 2: 2.65 feet S 18° W to tack in north end of crosstie.
 Reference Mark 3: 44.02 feet S 83° W to tack in sign No. 28 over Ellis Creek.
 GRID POSITION (Tennessee): X = 2,450,195.8; Y = 292,417.3 (T-3)
 Grid Azimuth to east gable of barn, on opposite side of river: 128°10'10".
 Grid Azimuth to east edge of chimney of 1-story house, on opposite side of river: 208°25'00".
 ELEVATION: 765.605 feet or 233.357 meters (C-2)

822.15 USGS (USGS, 1923; Polk County, Tennessee)
 Located 1.35 miles east of Hiwassee, east end of cut, east end of bend in railroad, at foot of grade, slope to east, opposite cliff, at north end of drain culvert, west of telephone pole and brace. Square cut in black rock.
 ELEVATION: 821.462 feet or 250.382 meters (C-2)

987.88 USGS (USGS, 1923; Polk County, Tennessee)
 Located 1 mile east of McFarland, 0.1 mile west of Milepost No. E-22, on south side of concrete top arch culvert, over Wolf Creek south side, and 3 inches from east end. Top of corner. A chiseled knob.
 ELEVATION: 987.055 feet or 300.855 meters (C-2)

1047.67 USGS (USGS, 1923; Polk County, Tennessee)
 Located 2.2 miles east of McFarland, on west abutment, south wing wall of bridge (railroad) No. 38, over Turtletown Creek, 6.2 feet from track, 4 inches from west and south sides of big stone, about 50 feet upstream from the mouth of Turtletown Creek, and 15.4 feet north of tablet "LHT 1939". Square cut in rock.
 ELEVATION: 1046.861 feet or 319.084 meters (C-2)

1178.86 USGS (USGS, 1923; Polk County, Tennessee)
 Located about 0.6 mile east along the Louisville and Nashville Railroad from Apalachia, 5 feet south of the south rail on the top of a rock ledge, on path leading to a creek and a road, about 50 feet east of bridge No. 39 over a highway, 350 feet northwest to railroad sign J3-25, and 150 feet east along railroad gravel road to Farmer. A chiseled square.
 ELEVATION: 1178.200 feet or 359.116 meters (C-2)

1441.325 USGS (USGS, 1923; Polk County, Tennessee)
 Located about 1.6 miles south along the Louisville and Nashville Railroad from Postelle, Tennessee, 3.1 miles northwest of Isabella Junction, about 1/4 mile southwest of milepost L-378, 400 feet east of the Ocoee River, 250 feet west of spring, 35 feet east of the east rail, in the top of a rock ledge, and 8 feet lower than the rail. A USGS standard disk stamped "1441".
 NOTE: It was reported in 1933 that the disk was practically destroyed, only a small triangular fragment remaining on the top of the stem.
 ELEVATION: 1440.542 feet or 439.078 meters (C-2)

1516.26 USGS (USGS, 1923; Polk County, Tennessee)
 Located about 1.1 miles southwest along the Louisville and Nashville Railroad from Farmer, at bridge 50 over Turtletown Creek, and on the top of the northwest corner of the south stone abutment. An unmarked point.
 ELEVATION: 1515.719 feet or 461.992 meters (C-2)

1638.000 USGS (USGS, 1923; Polk County, Tennessee)
 Located about 2.6 miles north along the Louisville and Nashville Railroad from the station at Postelle, Tennessee, 250 feet north of Brush Creek

Schoolhouse, about 500 feet north of bridge 64, about 125 feet north of milepost L-374, about 250 feet east of the track, about 120 feet east of Brush Creek, about 75 feet south of a fence, on the west side of a hill, and in the top of a rock ledge, about 25 feet lower than the rail. A USGS standard disk stamped "1638.000".
 ELEVATION: 1637.707 feet or 499.174 meters (C-2)

WTR 1 (USGS, 1933; Cherokee County, North Carolina)
 Located 2.3 miles west of Postell, North Carolina, on road from Postell to Liberty, 325 feet west of farmhouse of W. F. Hill, 80 feet west of wooden bridge over Camp Creek, 30 feet north of center of road, in top of rock ledge. A standard tablet stamped "1686 WTR 1 1933", painted on rock "USEM 1686.2".
 Reference Mark is 80 feet southeast of tablet, in north end of west stone abutment of wooden bridge; a square cut 5.8 feet lower than tablet.
 ELEVATION: 1685.5 feet (G-4)

WTR 2 (USGS, 1933; Cherokee County, North Carolina)
 Located 1.7 miles southwest of Shoal Creek Church, 2.8 miles northeast of Pack Gap, 200 feet east of Wehuty road forks, 40 feet southwest of Browns Spring, in top of granite ledge. A standard tablet stamped "1756 WTR 2 1933", painted on house "USEM 1756.0".
 Reference Mark is 35 feet northeast of tablet, 10 feet west of spring house, in east root of 30-inch maple, and 2.7 feet higher than the tablet.
 ELEVATION: 1755.3 feet (G-4)

WTR 3 (USGS, 1933; Cherokee County, North Carolina)
 Located 600 feet north of Pack Gap on Pack Mountain, 75 feet west of road, in top of embedded boulder, 36 feet south from a 20-inch chestnut oak tree, 7 feet east from a 6-inch oak tree with triangular blaze, 15.5 feet southwest from a 6-inch chestnut oak tree with a triangular blaze, 120 feet N 75° W from 10-inch oak tree with triangular blaze on east edge of road and on a 6-foot bank. A standard tablet stamped "2130 WTR 3 1933", painted on rock, "USEM 2129.6".
 Reference Mark is 30 feet northeast of tablet in top of ledge under 6-inch sourwood tree, 7.5 feet higher than the tablet.
 ELEVATION: 2128.9 feet (G-4)

WTR 4 (USGS, 1933; Cherokee County, North Carolina)
 Located 440 feet southeast of Angelico Gap, 0.24 mile east of North Carolina-Tennessee State line, on U. S. Highway 64, 125 feet north of road in top of granite ledge, painted on tree "USEM 1979.1". A standard USGS tablet stamped "1979 WTR 4 1933".
 Reference Mark is 175 feet southwest of tablet, 60 feet southeast of the sunny south lunch room, 20 feet north of U. S. Highway 64, in top of a large boulder; a square cut 38.3 feet higher than the tablet.
 NOTE: Searched for but not recovered, May 1953 and 1957.
 ELEVATION: 1978.4 feet (G-4)

WTR 5 (USGS, 1933; Cherokee County, North Carolina)
 Located 2.6 miles east of Angelico Gap, 0.2 miles northwest of Franklin Gap, on U. S. Highway 64, 250 feet north of road on high bank, in top of limestone ledge. A standard USGS tablet stamped "2176 WTR 5 1933", painted on tree "USEM 2175.5".
 Reference Mark is 30 feet southwest of tablet, on north end of concrete culvert; a square cut 12.9 feet lower than the tablet.
 ELEVATION: 2189 feet (T-5)

WTR 10 (USGS, 1933; Polk County, Tennessee)
 Located 4.3 miles east of Springtown (Servilla), 100 feet north of sharp turn in road at woods road south, 100 feet southwest of spring, 25 feet north-west of wooden culvert, and 15 feet west of road. A standard tablet stamped "1229 WTR 10 1933", in outcropping slate ledge, painted on tree "USEM 1228.7".
 NOTE: Searched for but not recovered, June 1957. Tablet was possibly torn out during road improvements.
 ELEVATION: 1228.32 feet (G-3)

WTR 11 (USGS, 1933; Polk County, Tennessee)
 Located 0.3 mile east of crossroads at Springtown (Servilla), 325 feet northeast of Servilla post office, 30 feet south of road, 40 feet northwest of northwest corner of barn. A standard tablet in limestone ledge, stamped "982 WTR 11 1933", painted on rock "USEM 982.5".
 Reference Mark is 315 feet southwest of tablet, 15 feet northeast of post office, in top of large limestone boulder; a square cut 29.1 feet lower than the tablet.
 ELEVATION: 981.93 feet (G-3)

WTR 22 (USGS, 1933; Polk County, Tennessee)
 Located 140 feet southwest of Grassy Creek School, 0.1 mile northeast of road forks, and 150 feet east of road. A standard tablet in rock ledge, stamped "1544 WTR 22 1933", painted on tree "USEM 1544.3".
 Reference Mark is 250 feet southwest of tablet, 20 feet northwest of road, in south root of 18-inch white oak; a copper nail and washer 17.9 feet lower than the tablet.
 ELEVATION: 1543.54 feet (G-3)

WTR 25 (USGS, 1934; Polk County, Tennessee)
 Located 2.9 miles west of Harbuck on Kimsey Highway, 2.6 miles east of spur to Little Frog Mountain Lookout Tower, 15 feet southeast of drain, 15 feet east of road, and 10 feet above road level. A standard tablet in rock ledge, stamped "2438 WTR 25 1934", painted on rock "USEM 2438.1".
 Reference Mark is 35 feet northwest from tablet, 10 feet north of road, in top of rock ledge; a square cut 4.3 feet lower than the tablet.
 ELEVATION: 2437.5 feet (G-4)

WTR 26 (USGS, 1934; Polk County, Tennessee)
 Located 1.1 miles north of Little Frog Mountain Lookout Tower, on Kimsey Highway, 150 feet east of road south to tower, 12 feet south of road, and 15 feet southwest of spring. A standard tablet in rock ledge on bank, stamped "2985 WTR 26 1934", painted on concrete trough "USEM 2985.3".
 Reference Mark is 15 feet northeast from tablet, in top of concrete spring trough; a square cut.
 NOTE: Searched for but not recovered, May 1953 and June 1957. Possibly destroyed during road improvement.
 ELEVATION: 2984.8 feet (G-4)

WTR 27 (USGS, 1934; Polk County, Tennessee)

Located 3.8 miles west of Little Frog Mountain Lookout Tower, along Kimsey Highway, 25 feet west of road at turn on summit. A standard tablet in top of rock ledge on bank, stamped "2338 WTR 27 1934", painted on rock "USEM 2337.9".

Reference Mark is 60 feet northeast from the tablet, 15 feet east of the road in top of embedded boulder; a square cut 6.0 feet lower than the tablet.

ELEVATION: 2337.3 feet (G-4)

WTR 28 (USGS, 1934; Polk County, Tennessee)

Located 7.4 miles southwest of McFarland, 2.5 miles northeast from Kimsey Highway, 30 feet south of road, and 50 feet west of drain. A standard tablet stamped "1506 WTR 28 1934", in top of rock ledge, painted on tree "USEM 1505.6".

Reference Mark is 20 feet north from tablet, 10 feet south of road, 3 feet west of white oak tree, in rock ledge; a square cut 4.4 feet lower than the tablet.

ELEVATION: 1504.8 feet (G-4)

WTR 29 (USGS, 1934; Polk County, Tennessee)

Located 4 miles southwest of McFarland, 75 feet east of Smith Creek, and 10 feet north of road. A standard tablet stamped "1504 WTR 29 1934", in top of rock ledge, painted on tree "USEM 1503.5".

NOTE: Searched for but not recovered, June 1957.

ELEVATION: 1502.8 feet (G-4)

WTR 30 (USGS, 1934; Polk County, Tennessee)

Located 3.4 miles east of Archville, 7.3 miles west of Little Frog Mountain Lookout Tower, on Kimsey Highway, 125 feet northwest of extreme point of turn in road, and 25 feet northeast of drain. A standard tablet in top of rock ledge, stamped "1543 WTR 30 1934", painted on tree "USEM 1542.8".

Reference Mark is 25 feet northwest from tablet, in east root of 20-inch white oak; a copper nail and washer 6.3 feet higher than the tablet.

ELEVATION: 1542.1 feet (G-4)

WTR 36 (USGS, 1934; Polk County, Tennessee)

Located 2.3 miles east of Ocoee No. 2 Dam, 50 feet south of road, 10 feet north of river, in rock ledge. A USGS gaging station standard reference tablet stamped "WTR 36 1934 1222", painted on telephone pole "USEM 1222.2".

Reference Mark is 120 feet east from tablet, in west end of north wing wall of concrete bridge over small stream; a square cut 7.3 feet higher than the tablet.

NOTE: Searched for but not recovered, May 1953 and June 1957. Possibly covered by earthwork during road improvement.

ELEVATION: 1221.779 feet or 372.399 meters (T-2)