

Monument information & disclaimer

All concrete monuments, USGS monuments and brass plate monuments set were established from a period between 4-21-04 and 10-6-04. These control monuments were established using GPS Static survey techniques and are part of a single network. Each monument was occupied for a period of time based on distance between the two points. Using a method based on a minimum of twelve-minute occupation time plus one minute per mile between monuments. In addition, no monument was occupied during undesirable geometric satellite configuration (PDOP greater than 3.0).

This data was then processed using Topcon Tools post processing software. It has been processed and adjusted using a 99% confidence level of adjustment. There are a total of twelve vertical control points used in this Network to establish accurate vertical data. Horizontal data of Blue Booked monuments was held using latest information from NGS (National Geodetic Survey). All Control Monuments are referenced to horizontal datum NAD83, State Plane Coordinates System, Ohio south zone 3402. Vertical data is referenced to NAVD88, using Geoid model 2003u07.

Location of all concrete monuments set in 1992 by GRW Aerial Surveys, Inc. are published in the Greene County Official Records, Volume 675, Pages 238 – 274 and Volume 745, Pages 62 – 122. These monuments have been Blue Booked with NGS; check NGS website for latest updated information on monument. Control points that are iron pins set w/cap should not be used for accurate vertical control. These iron pins are 40” long and were established for accurate horizontal mapping control only. Brass plate monuments in wing walls of bridges or box structures are much more substantial for vertical control. Brass plate monuments are stamped with State of Ohio structural file number or stamped with log point number; this log point number refers to a mileage from Corporation lines or County lines measured from west to east and south to north. Each bridge or structure containing a brass plate should have the log point number on guardrail or attached to a steel post by the structure. If location of any control monument is needed or in question please contact Greene County Engineers Office at (937) 562-7500.

As the Greene County Engineers Office progresses with more monuments set and established this data shall be updated periodically. With each update, more control will be added and vertical data will become increasingly more accurate. All GPS control points have a vertical error of plus or minus 0.06’. Only USGS monuments in network are known to be without error and meet USGS standards.

GREENE COUNTY STATIC GPS CONTROL NETWORK

NAME	NORTHING SPC83OHIO (SOUTH) 3402	EASTING SPC83OHIO (SOUTH) 3402	ELEVATION (NAVD88)	TYPE
1A *A16770	575571.000	1552077.222	893.006	CONCRETE MONUMENT
2 *A16741	571506.909	1588529.349	1007.794	CONCRETE MONUMENT
1024 * JY1141	610371.897	1599317.764	1023.984	USGS MONUMENT
C 37 *JY1140	608078.388	1609660.390	1051.117	USGS MONUMENT
CLIFTON *JY1764	634492.656	1581828.881	976.986	CONCRETE MONUMENT
CLIFTON AZ MK *JY1765	633289.209	1580802.579	974.890	CONCRETE MONUMENT
CORNSTALK *JY1766	588814.232	1548419.234	906.730	CONCRETE MONUMENT
CORNSTALK AZ MK *JY1767	589364.422	1547106.661	912.???	CONCRETE MONUMENT
CORRY 1.39 (2935392)	575433.263	1620711.217	1060.010	USGS MONUMENT
ENGINEERS OFFICE MON.	619828.859	1557214.587	918.800	CONCRETE MONUMENT
FAIRGROUND *JY1769	629408.777	1557933.713	835.180	CONCRETE MONUMENT
FAIRGROUND AZ MK *JY1770	627047.442	1559282.525	829.880	CONCRETE MONUMENT
FAIRGROUND 0.42 (2930498)	636557.739	1543085.545	817.793	BRASS PLATE
FEDERAL *JY1771	628810.530	1609229.866	1070.100	CONCRETE MONUMENT
FEDERAL AZ MK *JY1772	629385.263	1607665.736	1069.330	CONCRETE MONUMENT
GARRINGER 2.50 (2931583)	593483.630	1631727.079	1076.606	BRASS PLATE
GRN004	619825.333	1618005.118	1064.945	CONCRETE MONUMENT
GRN005	641833.586	1594125.289	1069.570	USGS MONUMENT
GRN015	600467.072	1534400.915	928.288	CONCRETE MONUMENT
GRN021	598059.570	1611848.271	1046.663	CONCRETE MONUMENT
GRN500	590662.359	1577862.855	979.890	USGS MONUMENT
HUSSEY AZ MK *JY1774	583369.440	1599178.307	1025.130	CONCRETE MONUMENT
JACOBY IP SET	648248.312	1571551.653	916.761	IRON PIN SET W/CAP
KYLE *JY1775	653092.415	1609569.668	1107.220	CONCRETE MONUMENT
KYLE AZ MK *JY1776	651576.592	1610482.060	1094.320	CONCRETE MONUMENT
LEWIS *JY1777	581084.706	1576758.666	987.580	CONCRETE MONUMENT
LEWIS AZ MK *JY1778	580626.720	1578137.283	1004.120	CONCRETE MONUMENT
LOWER BELLBROOK AZ MK *JY1780	608568.818	1552813.326	912.830	CONCRETE MONUMENT
MONROE SIDING IP SET	617392.563	1586164.904	1061.545	IRON PIN SET W/CAP
NORTH FAIRFIELD AZ MK *JZ3605	631354.427	1528890.799	843.574	CONCRETE MONUMENT
ORCHARD GROVE *JY1781	572584.383	1628936.959	1088.480	CONCRETE MONUMENT
SOUTH CHARLESTON *JY1785	643321.178	1638039.825	1084.150	CONCRETE MONUMENT
SOUTH CHARLESTON AZ MK *JY1786	644158.662	1638344.009	1089.110	CONCRETE MONUMENT
SOUTH CHARLESTON 2.87 (2930242)	622498.149	1629243.062	1083.779	BRASS PLATE
SPRING VALLEY PAINT. 3.88	583414.247	1563963.671	936.280	BRASS PLATE
UNION IP SET	608929.241	1569291.498	1022.210	IRON PIN SET W/CAP
UPPER BELLBROOK IP SET	612851.001	1539215.918	863.733	IRON PIN SET W/CAP
WAYNESVILLE JAMES 6.87 (2930579)	593885.511	1597766.481	989.217	BRASS PLATE
WAYNESVILLE *JZ3606	584968.412	1524921.695	932.520	CONCRETE MONUMENT
WAYNESVILLE AZ MK *JZ3607	583447.679	1524765.238	929.380	CONCRETE MONUMENT
WAYNESVILLE 0.84	582219.976	1524693.055	920.120	USGS MONUMENT
OLD WINCHESTER 0.37 (2931087)	574913.568	1573042.573	899.163	BRASS PLATE
YELLOW SPRINGS *JY1789	657578.727	1579246.540	890.287	CONCRETE MONUMENT
YELLOW SPRINGS AZ MK *JY1790	656543.536	1578508.681	1017.920	CONCRETE MONUMENT
(293????) = Structural file #				
*JY???? = NGS PID				

BRIDGE PLATE CONTROL MONUMENTS

NAME	NORTHING SPC83OHIO (SOUTH) 3402	EASTING SPC83OHIO (SOUTH) 3402	ELEVATION (NAVD88)	TYPE
GRAVEL PIT 4.05 (2935740)	644977.139	1631100.827	1067.77	BRASS PLATE
HARGRAVE 0.82 (2935899)	579245.143	1631729.257	1060.730	BRASS PLATE
HENVILLE 2.43 (2935996)	593962.084	1569988.665	903.850	BRASS PLATE
HILLTOP 2.46 (2930943)	633640.619	1557474.628	840.150	BRASS PLATE
HUSSEY 3.99 (2930013)	582873.35	1598340.571	1010.460	BRASS PLATE
HUSSEY 4.70	581498.072	1601858.766	1033.050	BRASS PLATE
HUSSEY 5.87	579696.65	1607641.228	1028.460	BRASS PLATE
HUSSEY 6.42 (2930056)	579511.273	1610512.933	1034.770	BRASS PLATE
LITTLE 0.10 (2936763)	627842.335	1635638.877	1084.25	BRASS PLATE
McMILLAN 0.31 (2931281)	647427.919	1611336.91	1042.840	BRASS PLATE
MT. CARMEL 1.54 (2931753)	587969.136	1605426.454	1027.200	BRASS PLATE
NORTH FAIRFIELD 2.64 (2934000)	628719.303	1529143.115	842.830	CHISLE MARK IN HEADWALL
ORCHARD GROVE 0.56	569678.896	1631276.621	1068.78	CHISLE MARK IN HEADWALL
NEW JASPER - PAINT. 1.00 (2937646)	584410.735	1599644.828	1010.200	BRASS PLATE
SELMA-JAMESTOWN 1.50 (2930161)	644548.499	1632686.206	1069.090	BRASS PLATE
SOUTH CHARLESTON 1.69 (2938278)	617917.579	1625024.904	1066.560	BRASS PLATE
SOUTH CHARLESTON 6.61	640016.37	1636748.171	1112.100	CHISLE MARK IN HEADWALL
SOUTH RIVER 1.19 (2938278)	655715.718	1602528.25	1003.960	BRASS PLATE
SPR. VALLEY - PAINT. 8.84	577623.571	1589583.367	972.950	BRASS PLATE
WEST BEAL 0.90 (2934310)	589236.888	1594683.963	1020.480	BRASS PLATE
(293????) = Structural file #				