

CONTROL REPORT
for
Kentucky Route 15
Perry County, Kentucky

Three monuments were recovered in good condition and used as the base control to establish horizontal and vertical positions on photo control and new monuments: **J-H 52** and **Lost Reset** (all second order or better stations) were held horizontally while point **J-H 52** and **J-H 615** were held vertically.

Horizontal control for new monuments was established by GPS observations made with six Leica dual frequency receivers on May 9&10, 2001. The base control was occupied for a minimum of two hours. The control point and station locations were occupied for a minimum of 15 minutes or until a 200% collection level was obtained. All observation sessions were made while a minimum of five satellites were visible and had a predicted GDOP level below 8.

The GPS computations were performed using the *Leica Geosystems SKIPRO v 2.0* post processing software. The SKIPRO computations were performed with the "fixed orbit" technique and used the broadcast ephemeris. All computations were processed on the World Geodetic System of 1984 (WGS 84) ellipsoid in meters.

The baseline solutions obtained were then entered into the least squares adjustment program GeoLab3 v7. The FGCC order obtained was Second order or better. The final coordinates were adjusted on the WGS-84 ellipsoid using Geoid 96 and the Kentucky map projection south zone (1602) in meters. The coordinates were then converted to U.S. feet.

Horizontal coordinates are published on the North American Datum (NAD 83/86) in the Kentucky State Plane Coordinates System, South Zone based on the U.S. Survey foot.

Elevations are NAVD 1988 and were established using differential leveling done by Grover C. Jones, P.E. & P.L.S.

MAY 11, 2001

**SURVEY REPORT
KY15, PERRY COUNTY
PRIMARY VERTICAL CONTROL**

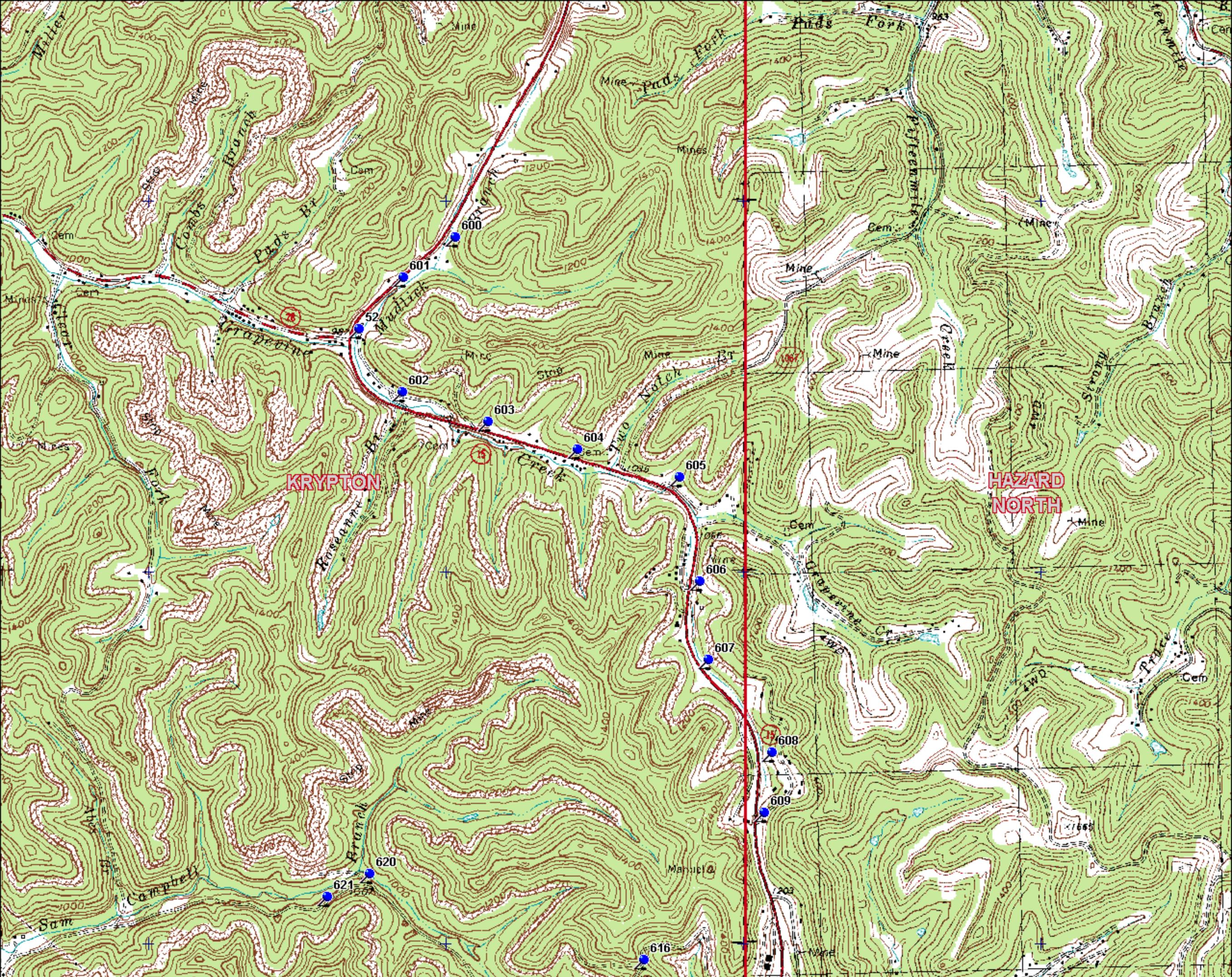
THE PURPOSE OF THIS SURVEY IS TO PROVIDE VERTICAL CONTROL FOR AERIAL MAPPING.

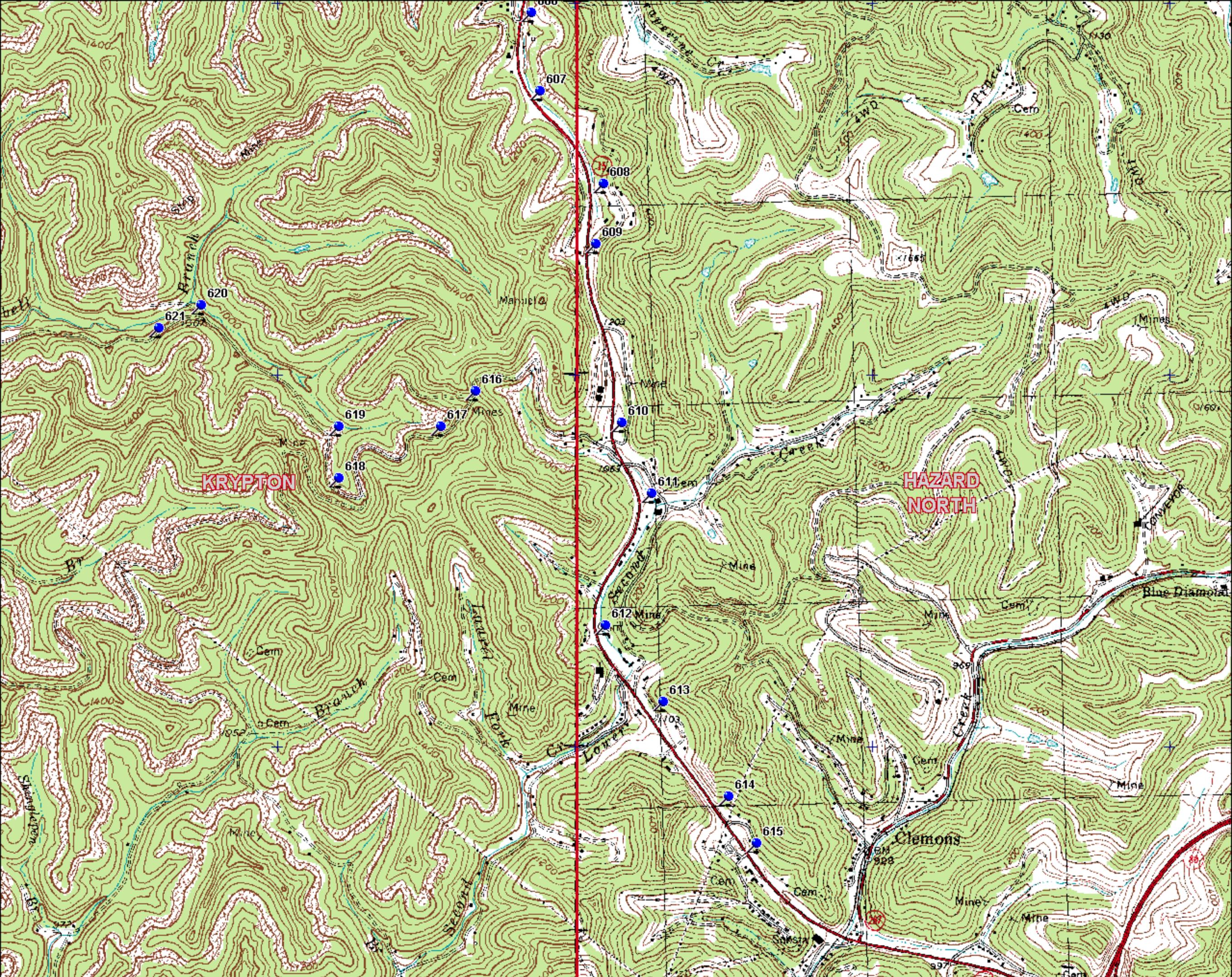
THE ORIGIN OF THE VERTICAL CONTROL WAS USC&GS J-171 (1950), LOCATED NORTHWEST 1.70 MILES ALONG KY28 FROM THE INTERSECTION OF KY28 AND KY15.

PRIMARY CONTROL ORIGINATED ON USC&GS J-171 (1950) AND WAS RUN SOUTHEAST ALONG KY28 TO THE INTERSECTION OF KY28 AND KY 15. PRIMARY CONTROL CONTINUED IN A NORTHEASTERLY DIRECTION TO THE BEGINNING OF PROJECT ON J-H #600. PRIMARY CONTROL CONTINUED FROM THIS MONUMENT IN A SOUTHEASTERLY DIRECTION ALONG KY15 TO EXISTING CONTROL MONUMENT J-H #51 ESTABLISHED ON PREVIOUS MAPPING SECTION. PRIMARY CONTROL CONTINUED SOUTHEASTERLY ALONG KY15 THROUGH CONTROL MONUMENTS J-H #601 THROUGH J-H #615 AND CONTROL WAS TIED AND ADJUSTED INTO USC&GS U-174 (1950) , LOCATED ON KY267 AT CLEMONS, KY.

PRIMARY CONTROL OVER THE MOUNTAIN INTO SAM CAMPBELL BRANCH ORIGINATED ON CONTROL MONUMENT J-H #610, LOCATED APPROXIMATELY 200' FEET NORTH ALONG KY15, FROM THE INTERSECTION OF SAM CAMPBELL BRANCH ROAD AND KY15. PRIMARY CONTROL CONTINUED WESTERLY ALONG SAM CAMPBELL BRANCH ROAD TO THE TOP OF THE MOUNTAIN AND CONTROL MONUMENT J-H #616. PRIMARY CONTROL CONTINUED ALONG SAM CAMPBELL BRANCH ROAD THROUGH J-H #617 THROUGH J-H #621 AND THE CONTROL WAS LOOPED BACK AND ADJUSTED INTO J-H #610.

WING POINTS FOR VERTICAL PICTURE POINTS WERE RUN BY GPS AND CONVENTIONAL LEVELING AND BOTH WERE TIED INTO PRIMARY CONTROL. VERTICAL DATUM USED WAS NAVD88 AND ELEVATIONS ARE SHOWN IN FEET.







Control Monument Information Sheet

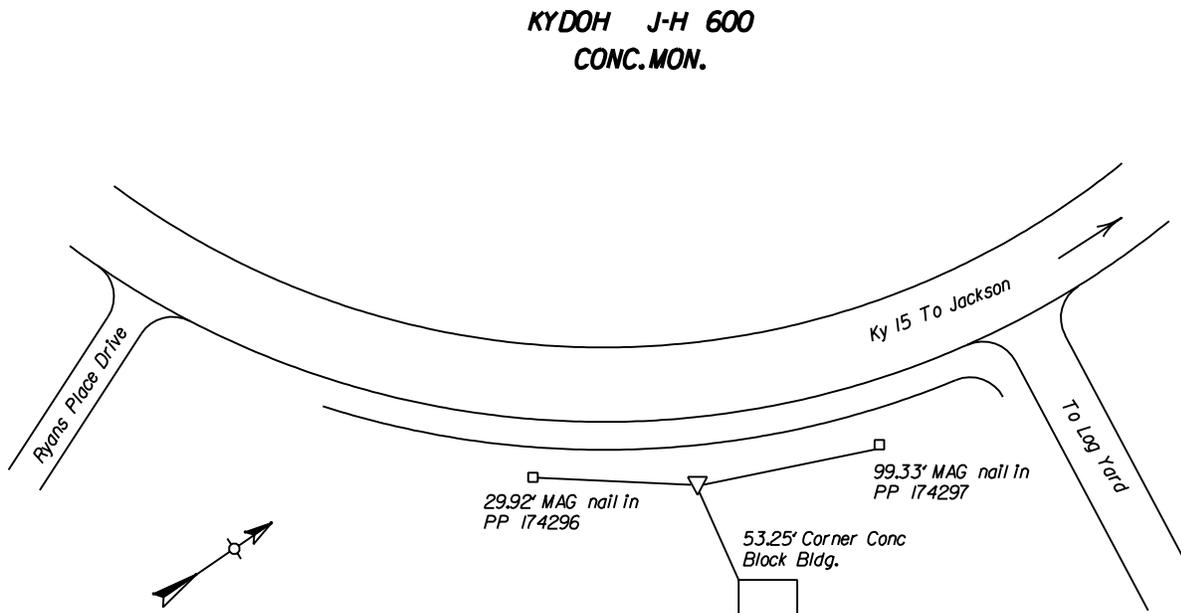
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination



Site/Quad KRYPTON, Ky	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 600 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *600 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-20-52.73818	Longitude W83-15-59.80798	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2019325.034	Easting (State Plane) <small>(US Survey Feet)</small> 2362205.205	Elevation 1062.07	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2019540.821	Easting (Project Datum) <small>(US Survey Feet)</small> 2362457.763	Geoid Model GEOID 96.	Ellipsoid Height 959.08 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. _____	Ground Azimuth & Distance to back station _____		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *601	Ground Azimuth & Distance to ahead station 230-18-10.52 1072.27		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

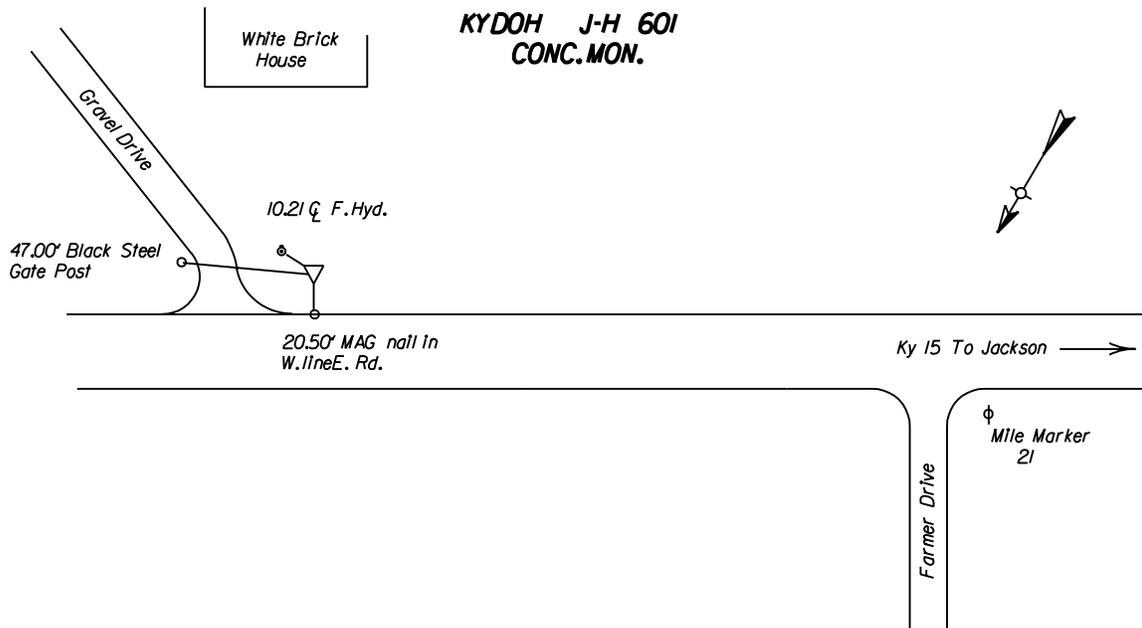
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination

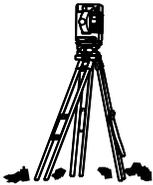


Site/Quad KRYPTON ,Ky	Station Description (Description is to be complete) <i>(type,size,depth set,etc.)</i> CONCRETE MONUMENT,ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR,MONUMENT SET TO 24" DEPTH			Station Designation J-H * 60I G.P.S.STATION PRIMARY CONTROL	
Locality/County HAZARD,KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *60I (2000)	
Date Set or Found <i>(Date,with S or F)</i> DECEMBER 2000 (S)	Latitude N37-20-46.18375	Longitude W83-16-10.24394	Horiz.Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2018640.215	Easting (State Plane) <small>(US Survey Feet)</small> 2361380.382	Elevation 1024.00	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2018855.929	Easting (Project Datum) <small>(US Survey Feet)</small> 2361632.721	Geoid Model GEOID 96.	Ellipsoid Height 921.03 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *600	Ground Azimuth & Distance to back station 50-18-10.52 1072.27		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *602	Ground Azimuth & Distance to ahead station 178-57-26.98 1862.08		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

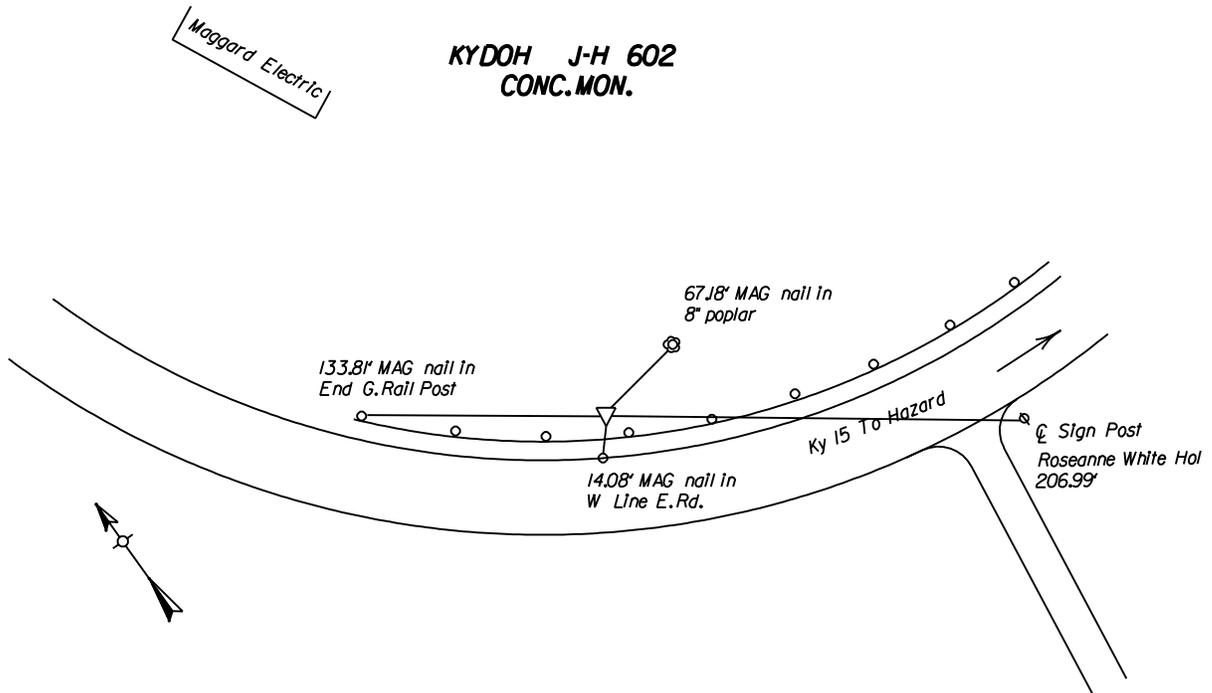
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination



Site/Quad KRYPTON KY	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 602 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *602 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-20-27.77515	Longitude W83-16-10.42978	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2016778.638	Easting (State Plane) <small>(US Survey Feet)</small> 2361414.257	Elevation 991.94	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2016994.153	Easting (Project Datum) <small>(US Survey Feet)</small> 2361666.600	Geoid Model GEOID 96.	Ellipsoid Height 889.00 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *601	Ground Azimuth & Distance to back station 358-57-26.98 1862.08		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *603	Ground Azimuth & Distance to ahead station 107-50-55.32 1482.21		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

Kentucky Transportation Cabinet
Department of Highways
Division of Design
Survey Coordination

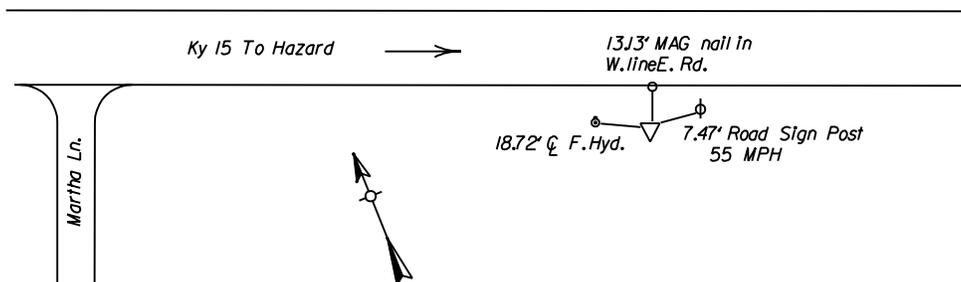


Site/Quad KRYPTON KY	Station Description (Description is to be complete) (type,size,depth set,etc.) CONCRETE MONUMENT,ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR,MONUMENT SET TO 24" DEPTH			Station Designation J-H * 603 G.P.S.STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *603 (2000)	
Date Set or Found (Date,with S or F) DECEMBER 2000 (S)	Latitude N37-20-22.91878	Longitude W83-15-53.11401	Horiz.Datum NAD 83/86	Zone KY SOUTH 1602	Vert.Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2016324.383	Easting (State Plane) <small>(US Survey Feet)</small> 2362824.976	Elevation 1007.22	<small>(Underline only one)</small> G.P.S. Derived Diff.Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2016539.849	Easting (Project Datum) <small>(US Survey Feet)</small> 2363077.470	Geoid Model GEOID 96.	Ellipsoid Height 904.29 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *602	Ground Azimuth & Distance to back station 287-50-55.32 1482.21		
Scale Factor 0.99994546	Elev.Factor 0.99994769	Ahead Station I.D. J-H *604	Ground Azimuth & Distance to ahead station 105-29-35.06 1520.56		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky.Registration No. 1536
--	-----------------	------------------------------------

Give a complete sketch and location description so that monument may be recovered by others

KYDOH J-H 603
CONC.MON.





Control Monument Information Sheet

**Kentucky Transportation Cabinet
Department of Highways
Division of Design
Survey Coordination**

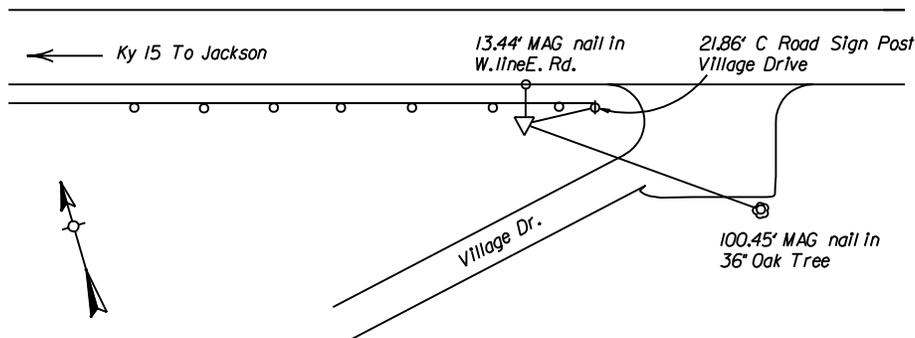


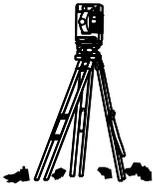
Site/Quad KRYPTON KY	Station Description (Description is to be complete) (type,size,depth set,etc.) CONCRETE MONUMENT,ALUMINUM DISK CIRCULAR 6" DIAMETER Poured CONCRETE WITH 5/8" REBAR,MONUMENT SET TO 24" DEPTH			Station Designation J-H * 604 G.P.S.STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *604 (2000)	
Date Set or Found (Date,with S or F) DECEMBER 2000 (S)	Latitude N37-20-18.52320	Longitude W83-15-35.10936	Horiz.Datum NAD 83/86	Zone KY SOUTH 1602	Vert.Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2015918.252	Easting (State Plane) <small>(US Survey Feet)</small> 2364290.124	Elevation 1027.93	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2016133.675	Easting (Project Datum) <small>(US Survey Feet)</small> 2364542.774	Geoid Model GEOID 96.	Ellipsoid Height 925.01 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *603	Ground Azimuth & Distance to back station 285-29-35.06 1520.56		
Scale Factor 0.99994546	Elev.Factor 0.99994769	Ahead Station I.D. J-H *605	Ground Azimuth & Distance to ahead station 103-59-22.85 1733.64		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky.Registration No. 1536
--	-----------------	------------------------------------

Give a complete sketch and location description so that monument may be recovered by others

**KYDOH J-H 604
CONC.MON.**





Control Monument Information Sheet

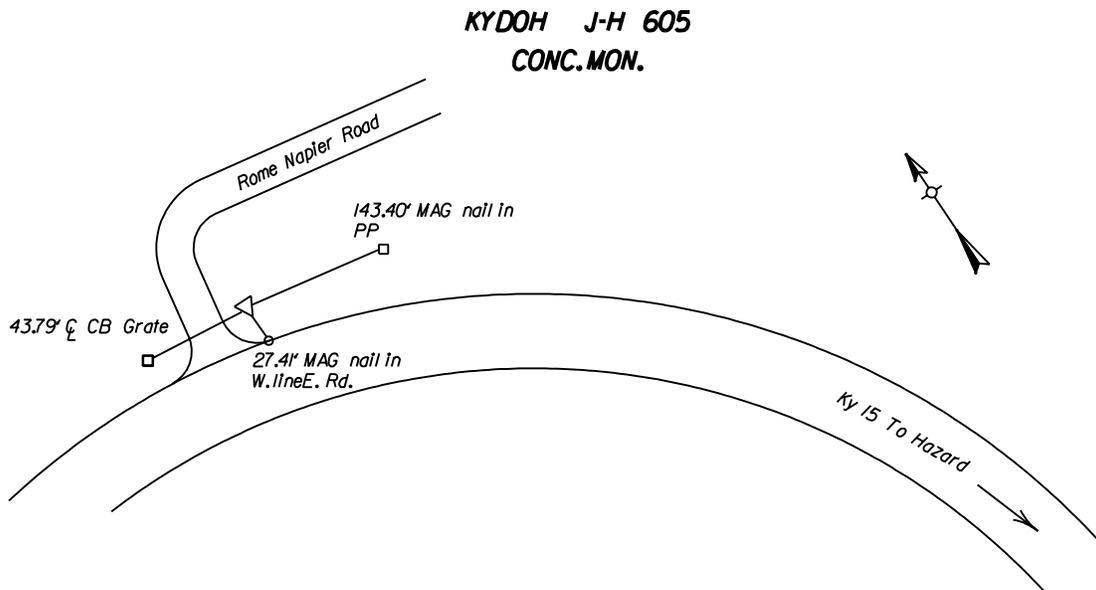
Kentucky Transportation Cabinet
Department of Highways
Division of Design
Survey Coordination

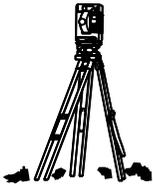


Site/Quad KRYPTON KY	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 605 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *605 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-20-13.94241	Longitude W83-15-14.42478	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2015499.195	Easting (State Plane) <small>(US Survey Feet)</small> 2365972.161	Elevation 1044.67	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2015714.573	Easting (Project Datum) <small>(US Survey Feet)</small> 2366224.991	Geoid Model GEOID 96.	Ellipsoid Height 941.75 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *604	Ground Azimuth & Distance to back station 283-59-22.85 1733.64		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *606	Ground Azimuth & Distance to ahead station 167-49-25.30 1728.05		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

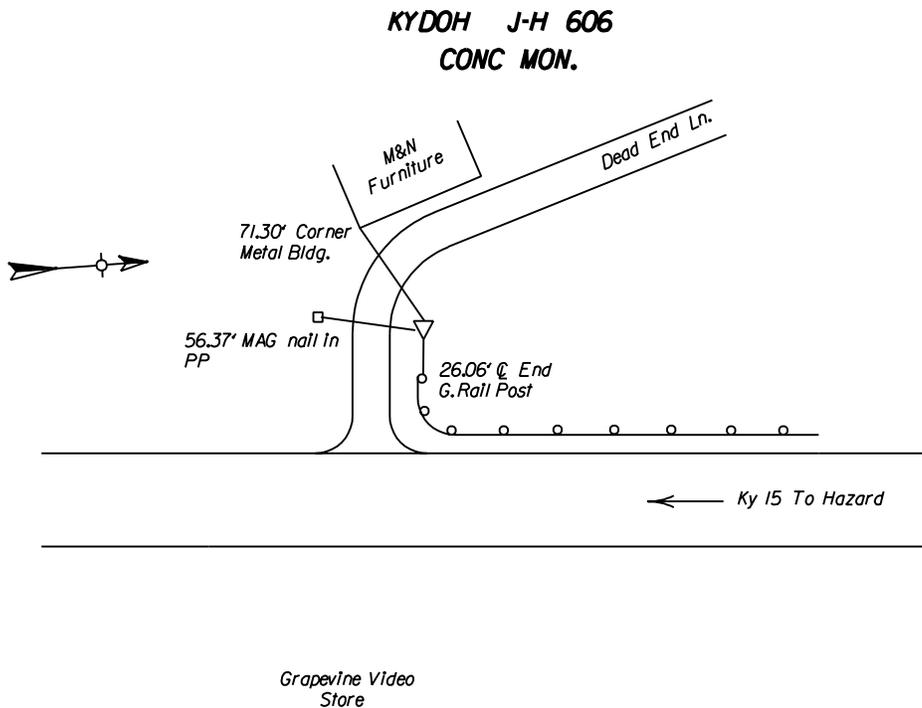
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination



Site/Quad KRYPTON KY	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 606 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *606 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-19-57.15330	Longitude W83-15-10.46622	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2013810.202	Easting (State Plane) <small>(US Survey Feet)</small> 2366336.603	Elevation 1081.83	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2014025.400	Easting (Project Datum) <small>(US Survey Feet)</small> 2366589.472	Geoid Model GEOID 96.	Ellipsoid Height 978.94 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *605	Ground Azimuth & Distance to back station 347-49-25.30 1728.05		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *607	Ground Azimuth & Distance to ahead station 171-49-30.67 1290.70		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

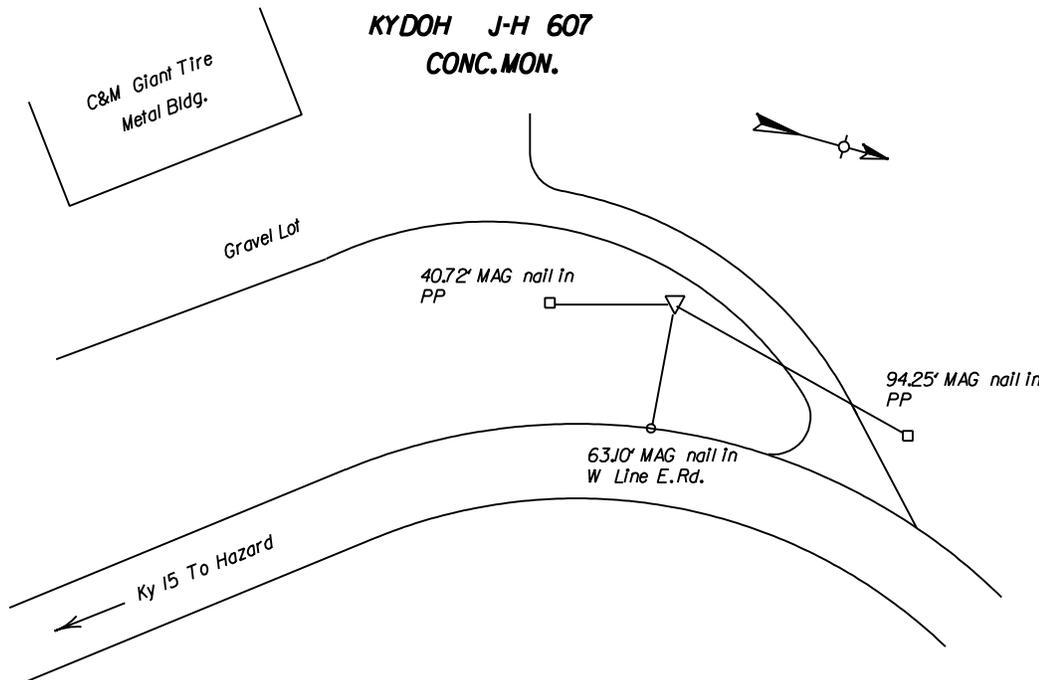
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination



Site/Quad KRYPTON KY	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 607 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *607 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-19-44.47907	Longitude W83-15-08.61287	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2012532.751	Easting (State Plane) <small>(US Survey Feet)</small> 2366520.113	Elevation 1104.16	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2012747.812	Easting (Project Datum) <small>(US Survey Feet)</small> 2366773.002	Geoid Model GEOID 96.	Ellipsoid Height 1001.29(ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *606	Ground Azimuth & Distance to back station 351-49-30.67 1290.70		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *608	Ground Azimuth & Distance to ahead station 144-11-27.76 1839.45		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

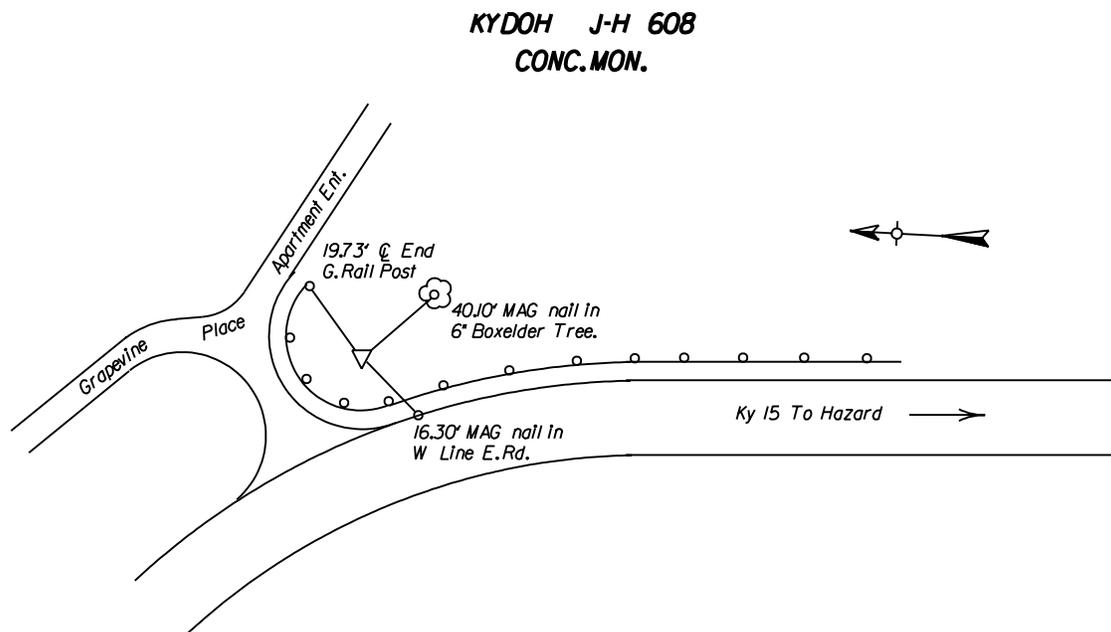
**Kentucky Transportation Cabinet
Department of Highways
Division of Design
Survey Coordination**

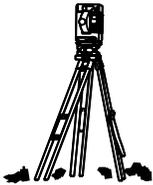


Site/Quad HAZARD NORTH KY	Station Description (Description is to be complete) <i>(type,size,depth set,etc.)</i> CONCRETE MONUMENT,ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR,MONUMENT SET TO 24" DEPTH			Station Designation J-H * 608 G.P.S.STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *608 (2000)	
Date Set or Found <i>(Date,with S or F)</i> DECEMBER 2000 (S)	Latitude N37-19-29.45492	Longitude W83-14-55.78235	Horiz.Datum NAD 83/86	Zone KY SOUTH 1602	Vert.Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2011041.169	Easting (State Plane) <small>(US Survey Feet)</small> 2367596.230	Elevation 1156.84	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2011256.071	Easting (Project Datum) <small>(US Survey Feet)</small> 2367849.234	Geoid Model GEOID 96.	Ellipsoid Height 1054.00 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *607	Ground Azimuth & Distance to back station 324-11-27.76 1839.45		
Scale Factor 0.99994546	Elev.Factor 0.99994769	Ahead Station I.D. J-H *609	Ground Azimuth & Distance to ahead station 186-09-01.53 991.60		

Kentucky Registered Land Surveyor <i>In charge of monumentation</i>	GROVER C. JONES	Ky.Registration No. 1536
---	-----------------	------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

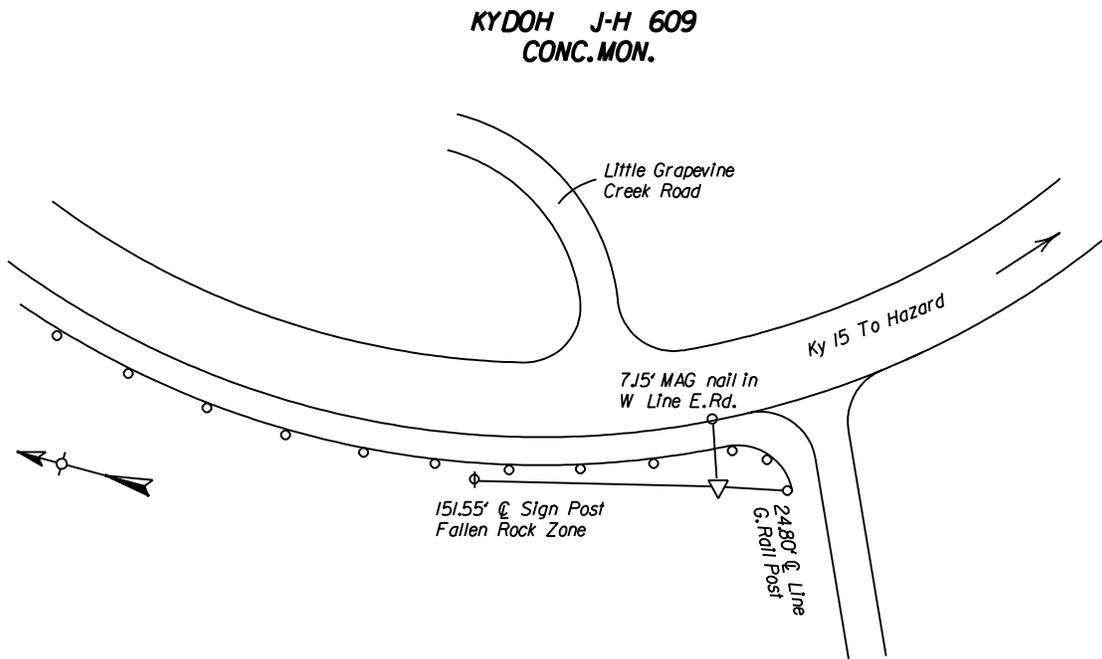
Kentucky Transportation Cabinet
Department of Highways
Division of Design
Survey Coordination



Site/Quad HAZARD NORTH KY	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 609 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *609 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-19-19.73925	Longitude W83-14-57.42010	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2010055.383	Easting (State Plane) <small>(US Survey Feet)</small> 2367490.003	Elevation 1204.32	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2010270.180	Easting (Project Datum) <small>(US Survey Feet)</small> 2367742.995	Geoid Model GEOID 96.	Ellipsoid Height 1101.49 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *608	Ground Azimuth & Distance to back station 06-09-01.53 991.60		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *610	Ground Azimuth & Distance to ahead station 170-11-18.54 2944.33		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





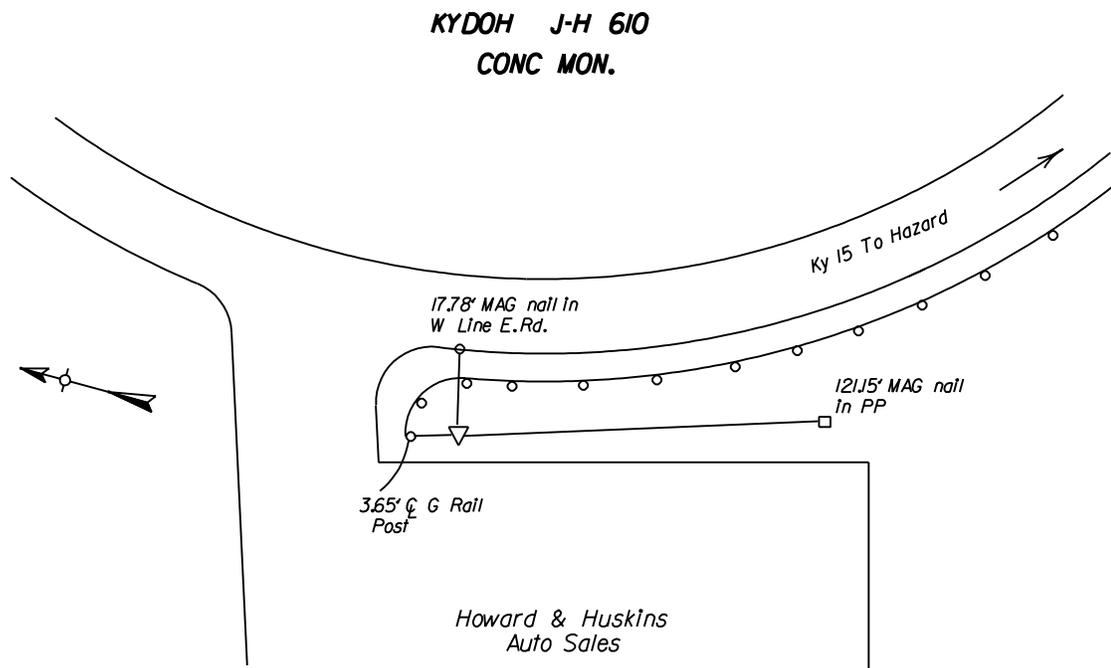
Control Monument Information Sheet

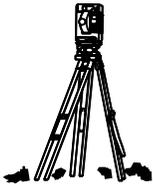
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination



Site/Quad HAZARD NORTH KY	Station Description (Description is to be complete) <i>(type, size, depth, set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 610 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *610 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-18-50.93499	Longitude W83-14-52.16230	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2007154.428	Easting (State Plane) <small>(US Survey Feet)</small> 2367991.685	Elevation 1102.95	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2007368.915	Easting (Project Datum) <small>(US Survey Feet)</small> 2368244.731	Geoid Model GEOID 96.	Ellipsoid Height 1000.16 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *609	Ground Azimuth & Distance to back station 350-11-18.54 2944.33		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *611	Ground Azimuth & Distance to ahead station 155-30-18.01 1255.73		
Kentucky Registered Land Surveyor In charge of monumentation		GROVER C. JONES		Ky. Registration No. 1536	

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

Kentucky Transportation Cabinet
Department of Highways
Division of Design
 Survey Coordination

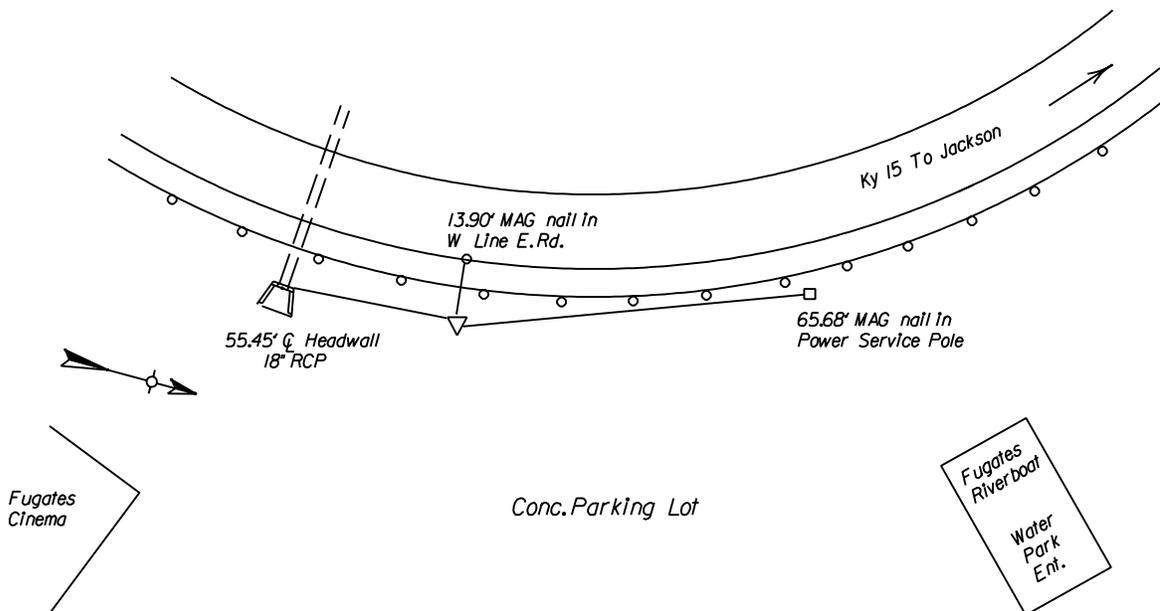


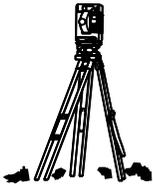
Site/Quad HAZARD NORTH KY	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 611 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *611 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-18-39.50537	Longitude W83-14-46.09494	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2006011.842	Easting (State Plane) <small>(US Survey Feet)</small> 2368512.271	Elevation 1042.79	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2006226.206	Easting (Project Datum) <small>(US Survey Feet)</small> 2368765.373	Geoid Model GEOID 96.	Ellipsoid Height 940.01 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *610	Ground Azimuth & Distance to back station 335-30-18.01 1255.73		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *612	Ground Azimuth & Distance to ahead station 197-45-21.55 2285.01		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others

**KYDOH J-H 611
CONC MON.**





Control Monument Information Sheet

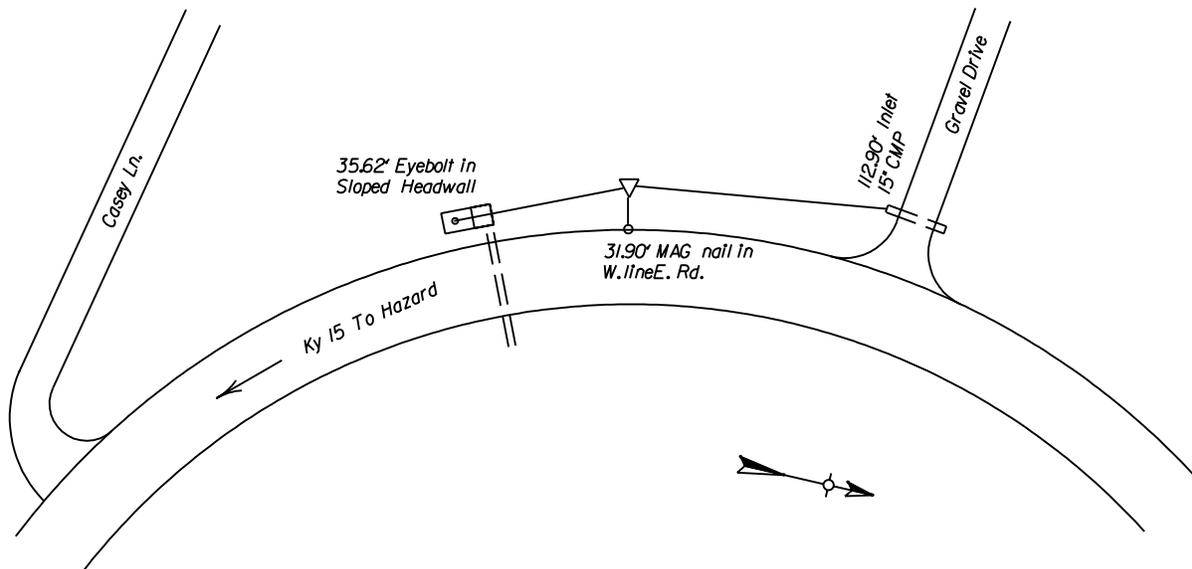
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination



Site/Quad HAZARD NORTH KY	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 612 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *612 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-18-18.8105	Longitude W83-14-55.43005	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2003835.914	Easting (State Plane) <small>(US Survey Feet)</small> 2367815.501	Elevation 1019.12	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2004050.046	Easting (Project Datum) <small>(US Survey Feet)</small> 2368068.528	Geoid Model GEOID 96.	Ellipsoid Height 916.38 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *611	Ground Azimuth & Distance to back station 17-45-21.55 2285.01		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *613	Ground Azimuth & Distance to ahead station 141-49-59.79 1566.78		
Kentucky Registered Land Surveyor In charge of monumentation		GROVER C. JONES		Ky. Registration No. 1536	

Give a complete sketch and location description so that monument may be recovered by others

KYDOH J-H 612 CONC. MON.





Control Monument Information Sheet

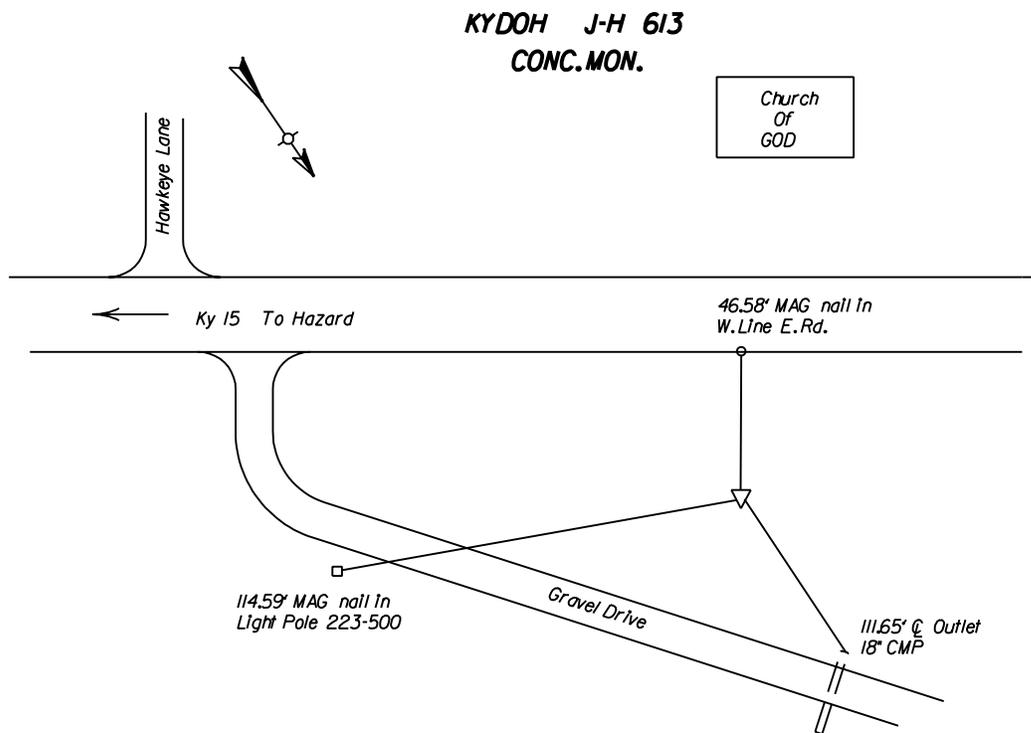
**Kentucky Transportation Cabinet
Department of Highways
Division of Design
Survey Coordination**



Site/Quad HAZARD NORTH KY	Station Description (Description is to be complete) <i>(type, size, depth, set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 613 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *613 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-18-05.75343	Longitude W83-14-43.85560	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2002604.217	Easting (State Plane) <small>(US Survey Feet)</small> 2368783.593	Elevation 1100.74	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2002818.217	Easting (Project Datum) <small>(US Survey Feet)</small> 2369036.724	Geoid Model GEOID 96.	Ellipsoid Height 998.02 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *612	Ground Azimuth & Distance to back station 321-49-59.79 1566.78		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *614	Ground Azimuth & Distance to ahead station 143-41-06.74 1869.65		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination

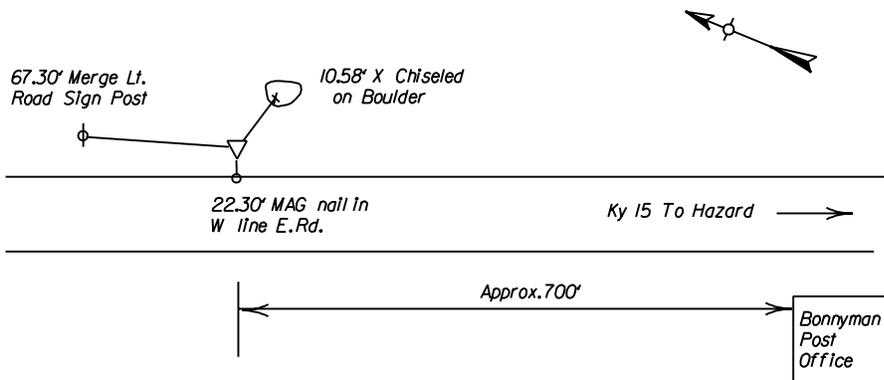


Site/Quad HAZARD NORTH KY	Station Description (Description is to be complete) (type,size,depth set,etc.) CONCRETE MONUMENT,ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR,MONUMENT SET TO 24" DEPTH			Station Designation J-H * 614 G.P.S.STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *614 (2000)	
Date Set or Found (Date,with S or F) DECEMBER 2000 (S)	Latitude N37-17-50.57427	Longitude W83-14-30.65228	Horiz.Datum NAD 83/86	Zone KY SOUTH 1602	Vert.Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2001097.862	Easting (State Plane) <small>(US Survey Feet)</small> 2369890.720	Elevation 1119.36	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2001311.701	Easting (Project Datum) <small>(US Survey Feet)</small> 2370143.969	Geoid Model GEOID 96.	Ellipsoid Height 1016.65(ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *613	Ground Azimuth & Distance to back station 323-41-06.74 1869.65		
Scale Factor 0.99994546	Elev.Factor 0.99994769	Ahead Station I.D. J-H *615	Ground Azimuth & Distance to ahead station 148-03-23.72 895.94		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky.Registration No. 1536
--	-----------------	------------------------------------

Give a complete sketch and location description so that monument may be recovered by others

**KYDOH J-H 614
CONC.MON.**





Control Monument Information Sheet

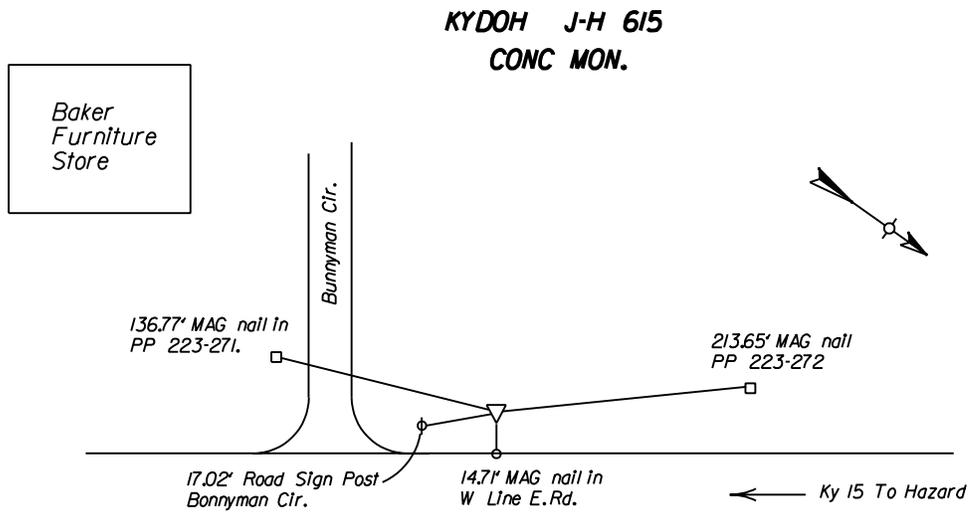
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination

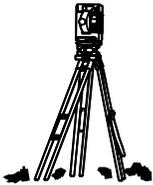


Site/Quad HAZARD NORTH KY	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 615 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *615 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-17-42.93616	Longitude W83-14-25.03814	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2000337.673	Easting (State Plane) <small>(US Survey Feet)</small> 2370364.695	Elevation 1073.09	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2000551.431	Easting (Project Datum) <small>(US Survey Feet)</small> 2370617.995	Geoid Model GEOID 96.	Ellipsoid Height 970.39 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *614	Ground Azimuth & Distance to back station 328-03-23.72 895.94		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *616	Ground Azimuth & Distance to ahead station 326-44-00.88 8692.24		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

**Kentucky Transportation Cabinet
Department of Highways
Division of Design
Survey Coordination**

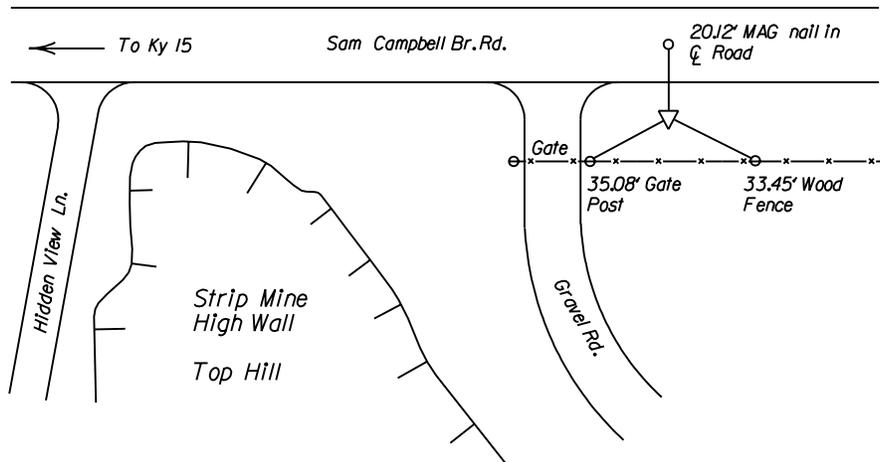


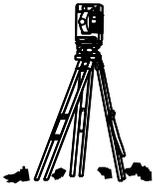
Site/Quad KRYPTON KY	Station Description (Description is to be complete) <i>(type, size, depth, set, etc.)</i> 3/4" ALUMINUM DISK SET 3" DEEP IN SANDSTONE ROCK OUTCROPPING OUTCROPPING PROJECTS 2"-3" ABOVE GROUND LEVEL			Station Designation J-H * 616 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *616 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-18-56.01175	Longitude W83-15-21.64627	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <i>(US Survey Feet)</i> 2007604.732	Easting (State Plane) <i>(US Survey Feet)</i> 2365597.224	Elevation 1323.05	G.P.S. Derived <i>(Underline only one)</i> Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <i>(US Survey Feet)</i> 2007819.267	Easting (Project Datum) <i>(US Survey Feet)</i> 2365850.014	Geoid Model GEOID 96.	Ellipsoid Height 1220.26(ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *615	Ground Azimuth & Distance to back station 146-44-00.88 8692.24		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *617	Ground Azimuth & Distance to ahead station 222-41-07.03 800.47		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others

**KYDOH J-H 616
ALUMINUM DISK SET IN STONE**





Control Monument Information Sheet

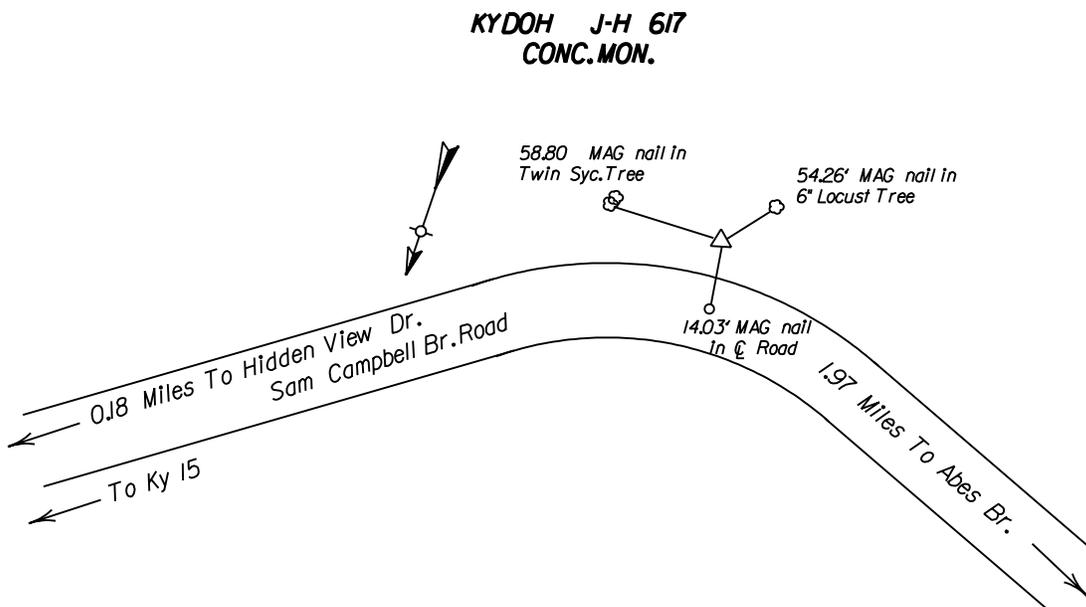
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination



Site/Quad KRYPTON KY	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i>			Station Designation	
Locality/County HAZARD KY PERRY COUNTY	CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			J-H * 617 G.P.S. STATION PRIMARY CONTROL	
				Stamping on Mark KYDOH ASC J-H *617 (2000)	
Date Set or Found <i>(Date, with S or F)</i>	Latitude	Longitude	Horiz. Datum	Zone	Vert. Datum
	DECEMBER 2000 (S)	N37-18-50.33805	W83-15-28.55360	NAD 83/86	KY SOUTH 1602
	Northing (State Plane) <small>(US Survey Feet)</small>	Easting (State Plane) <small>(US Survey Feet)</small>	Elevation	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy
	2007016.380	2365054.588	1262.03		2nd ORDER
Person filling out form	Northing (Project Datum) <small>(US Survey Feet)</small>	Easting (Project Datum) <small>(US Survey Feet)</small>	Geoid Model	Ellipsoid Height	Other Info.
GROVER C. JONES	2007230.852	2365307.320	GEOID 96.	1159.25(ft)	
Established by Agency AIR SURVEY CORPORATION	Project Factor	Back Station I.D.	Ground Azimuth & Distance to back station		
	1.000106861	J-H *616	42-41-07.03 800.47		
Scale Factor	Elev. Factor	Ahead Station I.D.	Ground Azimuth & Distance to ahead station		
0.99994546	0.99994769	J-H *618	241-25-40.65 1868.02		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

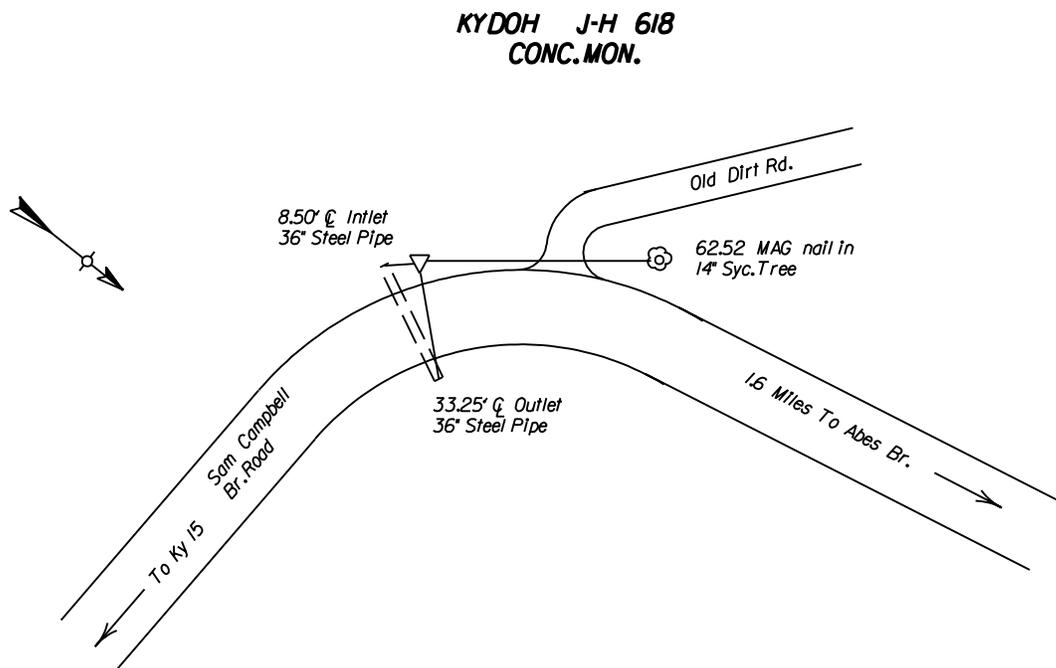
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination



Site/Quad KRYPTON KY	Station Description (Description is to be complete) <i>(type, size, depth, set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 618 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *618 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-18-41.93586	Longitude W83-15-49.14367	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2006123.072	Easting (State Plane) <small>(US Survey Feet)</small> 2363414.240	Elevation 1186.55	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2006337.448	Easting (Project Datum) <small>(US Survey Feet)</small> 2363666.797	Geoid Model GEOID 96.	Ellipsoid Height 1083.79(ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *617	Ground Azimuth & Distance to back station 61-25-40.65 1868.02		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *619	Ground Azimuth & Distance to ahead station 357-34-57.54 850.53		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others



Control Monument Information Sheet



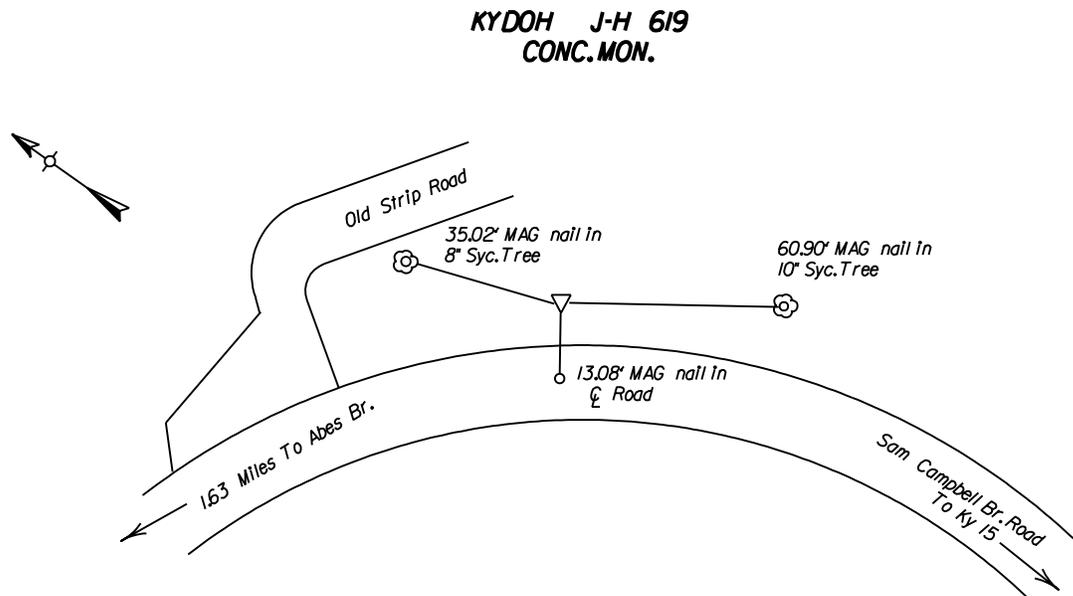
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination



Site/Quad KRYPTON KY	Station Description (Description is to be complete) <i>(type,size,depth set,etc.)</i> CONCRETE MONUMENT,ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR,MONUMENT SET TO 24" DEPTH			Station Designation J-H * 619 G.P.S.STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *619 (2000)	
Date Set or Found <i>(Date,with S or F)</i> DECEMBER 2000 (S)	Latitude N37-18-50.3435I	Longitude W83-15-49.31074	Horiz.Datum NAD 83/86	Zone KY SOUTH 1602	Vert.Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2006972.758	Easting (State Plane) <small>(US Survey Feet)</small> 2363378.370	Elevation 1103.57	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2007187.225	Easting (Project Datum) <small>(US Survey Feet)</small> 2363630.923	Geoid Model GEOID 96.	Ellipsoid Height 1000.80(ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *618	Ground Azimuth & Distance to back station 177-34-57.54 850.53		
Scale Factor 0.99994546	Elev.Factor 0.99994769	Ahead Station I.D. J-H *620	Ground Azimuth & Distance to ahead station 310-06-29.86 2987.29		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky.Registration No. 1536
--	-----------------	------------------------------------

Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

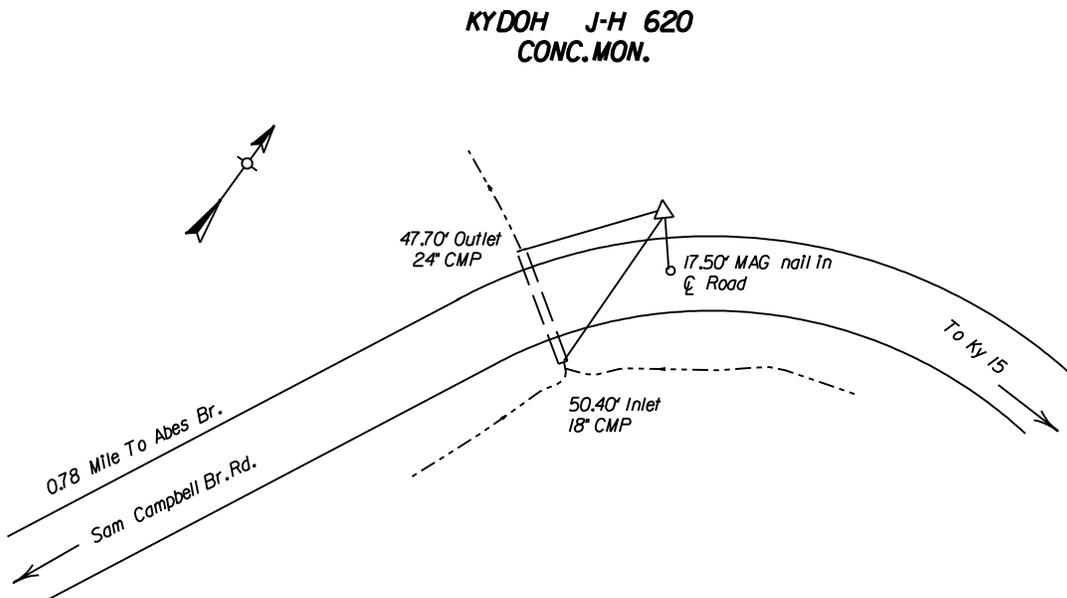
Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination



Site/Quad KRYPTON KY	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 620 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *620 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-19-09.95688	Longitude W83-16-16.95661	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2008897.069	Easting (State Plane) <small>(US Survey Feet)</small> 2361093.848	Elevation 1010.65	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2009111.742	Easting (Project Datum) <small>(US Survey Feet)</small> 2361346.157	Geoid Model GEOID 96.	Ellipsoid Height 907.84 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *619	Ground Azimuth & Distance to back station 130-06-29.86 2987.29		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. J-H *621	Ground Azimuth & Distance to ahead station 239-30-46.34 792.83		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

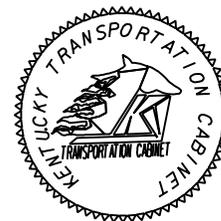
Give a complete sketch and location description so that monument may be recovered by others





Control Monument Information Sheet

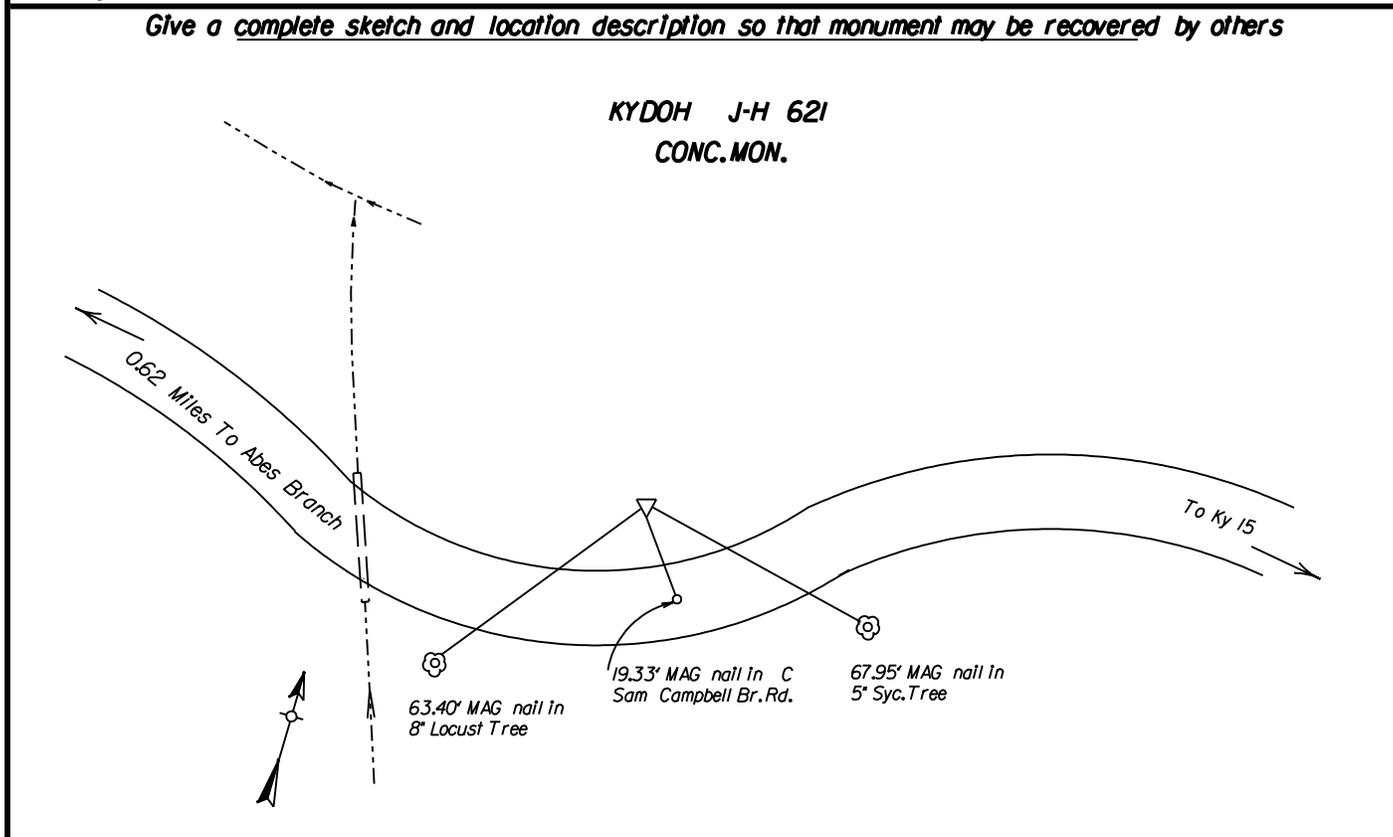
**Kentucky Transportation Cabinet
Department of Highways
Division of Design
Survey Coordination**



Site/Quad KRYPTON KY	Station Description (Description is to be complete) <i>(type, size, depth set, etc.)</i> CONCRETE MONUMENT, ALUMINUM DISK CIRCULAR 6" DIAMETER POURED CONCRETE WITH 5/8" REBAR, MONUMENT SET TO 24" DEPTH			Station Designation J-H * 621 G.P.S. STATION PRIMARY CONTROL	
Locality/County HAZARD KY PERRY COUNTY				Stamping on Mark KYDOH ASC J-H *621 (2000)	
Date Set or Found <i>(Date, with S or F)</i> DECEMBER 2000 (S)	Latitude N37-19-06.15864	Longitude W83-16-25.54155	Horiz. Datum NAD 83/86	Zone KY SOUTH 1602	Vert. Datum NAVD 88
	Northing (State Plane) <small>(US Survey Feet)</small> 2008494.872	Easting (State Plane) <small>(US Survey Feet)</small> 2360410.702	Elevation 1010.30	<small>(Underline only one)</small> G.P.S. Derived Diff. Levels	Order Accuracy 2nd ORDER
Person filling out form GROVER C. JONES	Northing (Project Datum) <small>(US Survey Feet)</small> 2008709.502	Easting (Project Datum) <small>(US Survey Feet)</small> 2360662.938	Geoid Model GEOID 96.	Ellipsoid Height 907.51 (ft)	Other Info.
Established by Agency AIR SURVEY CORPORATION	Project Factor 1.000106861	Back Station I.D. J-H *620	Ground Azimuth & Distance to back station 59-30-46.34 792.83		
Scale Factor 0.99994546	Elev. Factor 0.99994769	Ahead Station I.D. _____	Ground Azimuth & Distance to ahead station _____		

Kentucky Registered Land Surveyor In charge of monumentation	GROVER C. JONES	Ky. Registration No. 1536
--	-----------------	-------------------------------------

Give a complete sketch and location description so that monument may be recovered by others



DATASHEETS

The NGS Data Sheet

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 6.49

1 National Geodetic Survey, Retrieval Date = JUNE 21, 2001

GY3263 *****

GY3263 DESIGNATION - LOST RESET
 GY3263 PID - GY3263
 GY3263 STATE/COUNTY- KY/PERRY
 GY3263 USGS QUAD - HAZARD NORTH (1992)

GY3263
 GY3263 *CURRENT SURVEY CONTROL

GY3263* NAD 83(1993)- 37 19 03.10288(N) 083 11 03.39317(W) ADJUSTED
 GY3263* NAVD 88 - 563. (meters) 1847. (feet) SCALED

GY3263
 GY3263 LAPLACE CORR- -1.78 (seconds) DEFLEC99
 GY3263 GEOID HEIGHT- -31.36 (meters) GEOID99

GY3263
 GY3263 HORZ ORDER - SECOND

GY3263.The horizontal coordinates were established by classical geodetic methods

GY3263.and adjusted by the National Geodetic Survey in December 1995.

GY3263
 GY3263.The orthometric height was scaled from a topographic map.

GY3263
 GY3263.The Laplace correction was computed from DEFLEC99 derived deflections.

GY3263
 GY3263.The geoid height was determined by GEOID99.

GY3263
 GY3263;

	North	East	Units	Scale	Converg.
GY3263;SPC KY S	- 612,307.915	727,385.858	MT	0.99994544	+1 33 21.7
GY3263;UTM 17	- 4,132,335.000	306,450.322	MT	1.00006148	-1 19 28.5

GY3263:

	Primary Azimuth Mark	Grid Az
GY3263:SPC KY S	- HAZARD STATE POLICE RADIO MAST	178 26 06.9
GY3263:UTM 17	- HAZARD STATE POLICE RADIO MAST	181 18 57.1

GY3263

PID	Reference Object	Distance	Geod. Az dddmmss.s
GY3263	LOST RM 4	6.990 METERS	09312
GY3263	GY3265 HAZARD STATE POLICE RADIO MAST	APPROX. 6.6 KM	1795928.6
GY3263	LOST RM 5	11.388 METERS	20557
GY3263	LOST RM 1	2.734 METERS	21157
GY3263	LOST AZ MK RESET		2210756.5
GY3263	LOST RM 3	7.736 METERS	22731
GY3263	LOST RM 2 RESET	5.066 METERS	31611
GY3263	GY3262 LOST LOOKOUT TOWER	4.241 METERS	33713
GY3263	LOST AZ MK		3423812.0
GY3263	LOST RM 6	44.775 METERS	34348

GY3263
 GY3263
 GY3263 SUPERSEDED SURVEY CONTROL



**Kentucky Transportation Cabinet
Department of Highways
Division of Design**

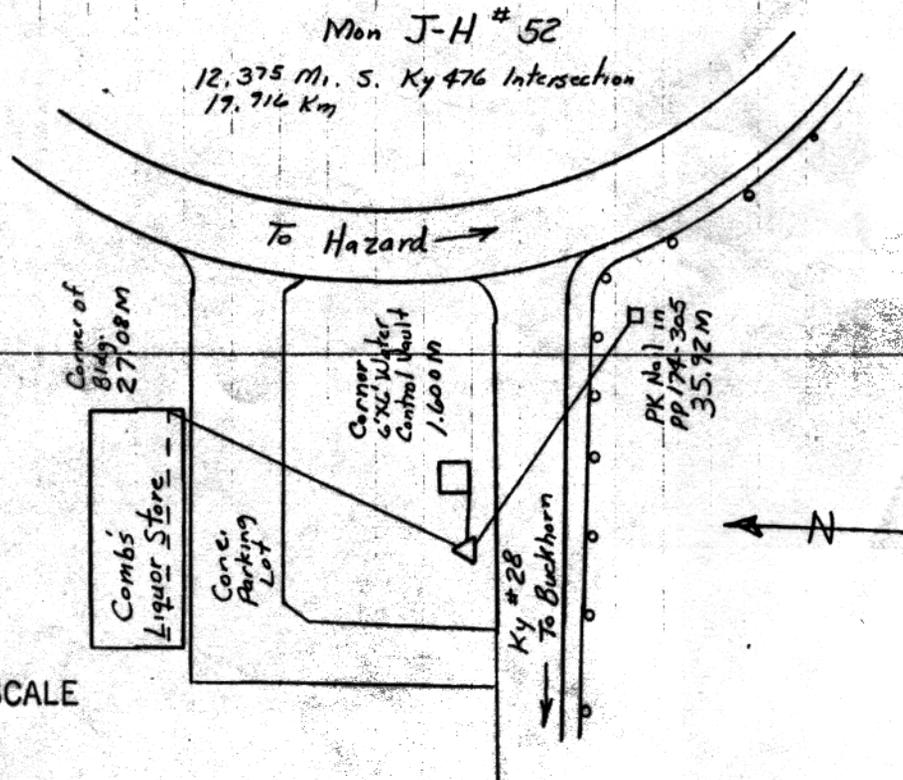


**Control Monument
Information Sheet**

Site/Quad Krypton, Kentucky	Station Description (Description is to be complete) (type,size,depth set,etc.) Concrete Monument, Brass Disk Circular 6" Diameter Poured Concrete with 5/8" Rebar Monument Set to 24" Depth		Station Designation J-H #52 G.P.S. Station Primary Control	
Locality/County Grapevine Creek Perry County			Stamping on Mark KY DDM ASC J-H #52 (1995)	
Date Set or Found (Date,with S or F) February, 1995 (S)	Latitude 37-20-37.86601	Longitude 83-16-19.14759	Horizontal Datum Lambert NAD 83	State Plane Zone KY South 1602
	Northing (METERS) 615020.6950	Easting (METERS) 719537.8480	Elevation (METERS) 301.0107	Vertical Datum NAVD 88/91
Person filling out form Grover C. Jones	Convergence 01-30-10.16	Back Station I.D. J-H #51	Grid Azimuth & Distance to back station 220-00-00.14 406.5850	
Established by Agency Air Survey Corporation	Scale Factor (Combined) 0.99990961	Ahead Station I.D. J-H #53	Grid Azimuth & Distance to ahead station 339-28-53.47 218.1348	

Kentucky Registered Land Surveyor **Ky.Registration No.**
In charge of monumentation Grover C. Jones 1536

Give a complete sketch and location description so that monument may be recovered by others



NOT TO SCALE

GY3263
 GY3263 NAD 83(1993)- 37 19 03.11060(N) 083 11 03.39829(W) AD() 2
 GY3263 NAD 83(1986)- 37 19 03.11029(N) 083 11 03.39886(W) AD() 2
 GY3263 NAD 27 - 37 19 02.76054(N) 083 11 03.77346(W) AD() 2
 GY3263

GY3263.Superseded values are not recommended for survey control.
 GY3263.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 GY3263.See file dsdata.txt to determine how the superseded data were derived.

GY3263
 GY3263_MARKER: DS = TRIANGULATION STATION DISK
 GY3263_SETTING: 66 = SET IN ROCK OUTCROP

GY3263
 GY3263 HISTORY - Date Condition Report By
 GY3263 HISTORY - 1934 MONUMENTED CGS
 GY3263 HISTORY - 1950 SEE DESCRIPTION CGS
 GY3263 HISTORY - 1960 POOR THOMAS
 GY3263 HISTORY - 1967 SEE DESCRIPTION CGS
 GY3263 HISTORY - 19860422 GOOD USE

GY3263
 GY3263 STATION DESCRIPTION

GY3263'DESCRIBED BY COAST AND GEODETIC SURVEY 1934 (MAH)
 GY3263'THIS IS AN OLD (U.S.G.S.) STATION LOCATED AT THE HEAD OF LOST CREEK,
 GY3263'KNOWN AS LOST CREEK MOUNTAIN, ABOUT 4-3/4 MILES N OF HAZARD.
 GY3263'STATION WAS RE-MARKED WITH A STANDARD U.S.C.AND G.S. DISK. STATION
 GY3263'IS ON THE SOUTHERN END OF A NARROW RIDGE NEAR A GROUP OF LARGE
 GY3263'BOULDERS, ABOUT 14 FEET N OF THE SOUTHERN EDGE OF ROCK CONTAINING
 GY3263'REFERENCE MARK NO.1.
 GY3263'
 GY3263'STATION, REFERENCE, AND AZIMUTH MARKS ARE STANDARD BRONZE DISKS
 GY3263'WEDGED IN DRILL HOLES IN OUTCROPPING BEDROCK.
 GY3263'
 GY3263'REFERENCE MARK NO. 1 IS SW OF STATION IN A LARGE ROCK ABOUT SAME
 GY3263'ELEVATION AS STATION.
 GY3263'
 GY3263'REFERENCE MARK NO. 2 IS NW OF STATION IN A LARGE ROCK ABOUT SAME
 GY3263'ELEVATION AS STATION.
 GY3263'
 GY3263'AZIMUTH MARK IS NNW OF STATION ON CREST OF RIDGE SLOPING DOWNWARD, IN
 GY3263'ROCK OUTCROP, NEAR A GROUP OF BOULDERS.
 GY3263'
 GY3263'TO REACH FROM HAZARD, TAKE HIGHWAY 15 N FROM COURTHOUSE 5.2 MILES, OR
 GY3263'0.25 MILE BEYOND BULAN POST OFFICE, AND TAKE A LEFT DIRT ROAD
 GY3263'LEADING THROUGH A SMALL MINING CAMP. FOLLOW THIS 0.5 MILE, CROSS
 GY3263'RAILROAD, THEN A WOODEN BRIDGE, CONTINUE 0.25 MILE AND TAKE
 GY3263'LEFT FORK. FOLLOW THIS UP HOLLOW 0.85 MILE TO GAP AT END OF TRUCK
 GY3263'TRAVEL. TAKE TRAIL UP RIDGE TO LEFT (W). THIS TRAIL SKIRTS LEFT
 GY3263'OF KNOB ABOUT HALF-WAY TO TOP. FOLLOW IT ABOUT 1/4 MILE AND TURN
 GY3263'RIGHT AROUND KNOB, CONTINUE ON TRAIL ABOUT 3/8 MILE TO TOP OF
 GY3263'ROCK RIDGE AND STATION.

GY3263'
 GY3263'A 4-FOOT STAND IS REQUIRED.

GY3263
 GY3263 STATION RECOVERY (1950)
 GY3263

GY3263'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1950 (LWS)
 GY3263'STATION WAS RECOVERED AS DESCRIBED BUT ALL THE DISKS HAVE BEEN

GY3263
GY3263
GY3263

STATION RECOVERY (1967)

GY3263 'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1967 (LFS)
GY3263 'THE STATION MARK, REFERENCE MARK NO. 2 AND THE AZIMUTH MARK RESET
GY3263 '1950 WERE RECOVERED IN GOOD CONDITION. THE STATION MARK WAS BADLY
GY3263 'MUTILATED, BUT COMPLETELY FIRM IN THE ROCK AND THE CENTER POINT WAS
GY3263 'COMPLETELY VISIBLE. ALL OTHER REFERENCE MARKS AND DRILL HOLES
GY3263 'HAD BEEN DESTROYED BY EXCAVATION WHEN A T.V. CABLE MAST WAS INSTALLED
GY3263 'NEAR THE STATION. THE HORIZONTAL ANGLE BETWEEN THE AZIMUTH MARK AND
GY3263 'R.M. NO. 2 SHOWED A DISCREPANCY OF 00 DEG 01 MIN 18.2 SEC, HOWEVER,
GY3263 'THE HORIZONTAL DISTANCE MEASUREMENT CHECKED THE 1950 MEASUREMENT
GY3263 'FLAT.

GY3263 '

GY3263 'DUE TO THE CONSTRUCTION OF A NEW STEEL LOOKOUT TOWER BY THE KENTUCKY
GY3263 'FORESTRY SERVICE, THE ENTIRE ROCK MASS WHERE THE STATION WAS SET
GY3263 'HAD TO BE LOWERED A DEPTH OF ABOUT 10 FEET, AND THE ENTIRE STATION
GY3263 'WOULD BE LOST. AS NO POSSIBLE LOCATION COULD BE ATTAINED TO
GY3263 'MOVE THE STATION OUT OF THE CONSTRUCTION AREA, THREE NEW REFERENCE
GY3263 'MARKS WERE ESTABLISHED FOR USE IN RE-ESTABLISHING THE STATION.
GY3263 'HORIZONTAL AND VERTICAL ANGLES WERE THEN OBSERVED UPON THESE
GY3263 'REFERENCE MARKS AND SLOPE MEASUREMENTS MADE TO EACH FROM THE AXIS
GY3263 'OF THE THEODOLITE. SEE HEAD OF DESCRIPTION IN BOX. AFTER ALL
GY3263 'OBSERVATIONS AND MEASUREMENTS WERE MADE AND CHECKED, ALL EXISTING
GY3263 'MARKS AT THE STATION SITE WERE DESTROYED AND THE DISK REMOVED,
GY3263 'TO PERMIT THE LEVELING OF THE MOUNTAIN TOP AND THE ERECTION OF THE
GY3263 'STEEL TOWER.

GY3263 '

GY3263 '*NOTE-HORIZONTAL DISTANCES COMPUTED THROUGH VERTICAL ANGLES AND SLOPE
GY3263 'DISTANCE MEASUREMENTS.

GY3263 '

GY3263 'AFTER THE GREATER PART OF THE CONSTRUCTION WAS COMPLETED ON THE NEW
GY3263 'STEEL TOWER, THE STATION WAS RE-ESTABLISHED IN ITS EXACT ORIGINAL
GY3263 'POSITION THROUGH THE COMPUTED HORIZONTAL DISTANCES OF THE NEW
GY3263 'REFERENCE MARKS AND HORIZONTAL ANGLE MEASUREMENTS BETWEEN THE
GY3263 'REFERENCE MARKS. AT THE TIME THE STATION WAS RE-ESTABLISHED, THE
GY3263 'AZIMUTH MARK WAS OBSTRUCTED BY A VERY LARGE ROCK AND COULD NOT BE
GY3263 'USED IN CHECKING THE ANGLES. THIS ROCK WILL BE REMOVED AT A FUTURE
GY3263 'DATE WHEN THE PROPER EQUIPMENT IS AVAILABLE AND THE AZIMUTH MARK
GY3263 'WILL THEN BE VISIBLE ONCE MORE.

GY3263 '

GY3263 'THE STATION IS LOCATED ABOUT 4.5 MILES NORTH OF HAZARD AND ABOUT 2
GY3263 'MILES NORTH-NORTHEAST OF BULAN, ON A HIGH ROCKY PEAK KNOWN
GY3263 'LOCALLY AS LOST CREEK MOUNTAIN AT THE SITE OF THE LOST MAOUNTAIN
GY3263 'LOOKOUT TOWER.

GY3263 '

GY3263 'TO REACH THE STATION FROM THE NEW POST OFFICE IN BULAN, GO
GY3263 'NORTHEASTERLY ON STATE ROUTE 15 FOR 0.2 MILE TO THE JUNCTION OF
GY3263 'COUNTY ROAD 1146 ON THE LEFT. HERE TURN LEFT ON COUNTY ROAD 1146 AND
GY3263 'GO NORTHERLY FOR 0.7 MILE TO A FORK, KEEP THE LEFT FORK ON
GY3263 'PAVED ROAD AND CONTINUE NORTHWESTERLY FOR 0.8 MILE TO A GRAVELED ROAD
GY3263 'SHARP LEFT AND A SIGN COUNTY DUMP. HERE TURN SHARP LEFT ON THIS
GY3263 'GRAVELED ROAD AND FOLLOW WINDING ROAD IN A GENERAL SOUTHWESTERLY
GY3263 'DIRECTION FOR 0.9

GY3263 'MILE TO A ROAD SHARP RIGHT AND ANOTHER SIGN COUNTY DUMP.*HERE TURN
GY3263 'RIGHT AND GO NORTHWESTERLY FOR 0.15 MILE TO A ROAD SHARP RIGHT AND
GY3263 'THE DUMP DEAD AHEAD. HERE TURN SHARP RIGHT AND FOLLOW VERY WINDING

**SURVEY REPORT
KY15,PERRY COUNTY
PRIMARY VERTICAL CONTROL**

THE NUMBER OF PRIMARY CONTROL MONUMENTS SET WAS TWENTY TWO.
THE NUMBER OF PHOTO CONTROL POINTS SET WAS EIGHTEEN.

USC&GS J-171 (1950) WAS FOUND TO BE IN GOOD CONDITION.
USC&GS U-174 (1950) WAS FOUND TO BE IN GOOD CONDITION.
KYDOH ASC J-H #51 (1995) WAS FOUND TO BE IN GOOD CONDITION.

**TYPE OF LEVEL USED ON THIS PROJECT WAS A TOPCON DL102
ELECTRONIC DIGITAL LEVEL. ORDER OF ACCURACY ON THIS
PROJECT WAS 2ND ORDER.**

GROVER C. JONES,P.E.& P.L.S.