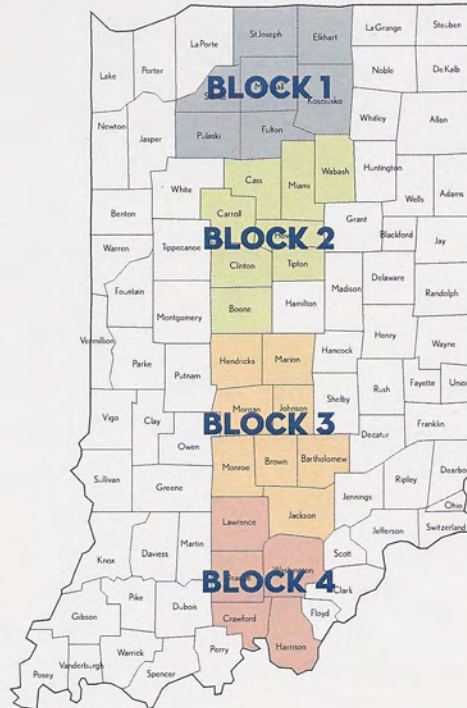


REPORT OF GROUND CONTROL 2011 INDIANA STATEWIDE IMAGERY & LiDAR PROGRAM



CENTRAL TIER - CONTROL VOLUME 1

71177-01

REPORT OF GROUND CONTROL
2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4

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April 2011

Volume 1 of 5

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REPORT OF GROUND CONTROL
2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4

Introduction

USI Consultants was contracted by Woolpert to perform surveying service in support of the Indiana State-wide Imagery and LiDAR Program. These services included establishing horizontal and vertical control on various points throughout the State of Indiana. Control was established on photo identifiable points used to control the aerial photography as well as provide additional control for QA /QC purposes.

The Team

The USI field team consisted of two crew chiefs, Chris Stinson and Sean Murphy. The project was lead by Ryan C. Swingley, PLS and the overall management was over seen by Mark A. Schepers, PLS. Each survey crew was equipped with dual frequency GNSS receivers with integrated antennas, an adjustable carbon fiber rover pole, a laptop computer, and a digital camera.

Photo Identification

Woolpert provided USI with anticipated photo identifiable points in excel and Google Earth formats. USI was under the instruction that while these points are anticipated to be suitable for the project, USI had the authority to move the location to another photo identifiable, should it be determined that the original location would be unacceptable. USI was given the authority to move the proposed location by as much as a quarter mile. USI was instructed by Woolpert that in areas where 2 points were necessary for LiDAR purposes the second point (designated with an "A") could not be less than 5 meters away from a break line and must be on a hard surface.

Accuracy Requirements

USI was instructed to meet or exceed the horizontal standard of Second-order, Class II and the vertical standard of Third-order.

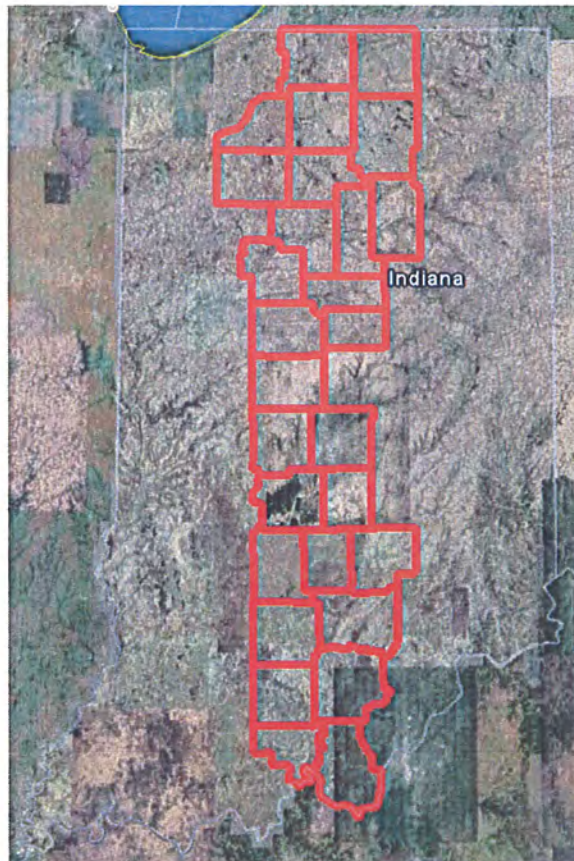
Project Progression

The central tier of this project consisted of the following counties:

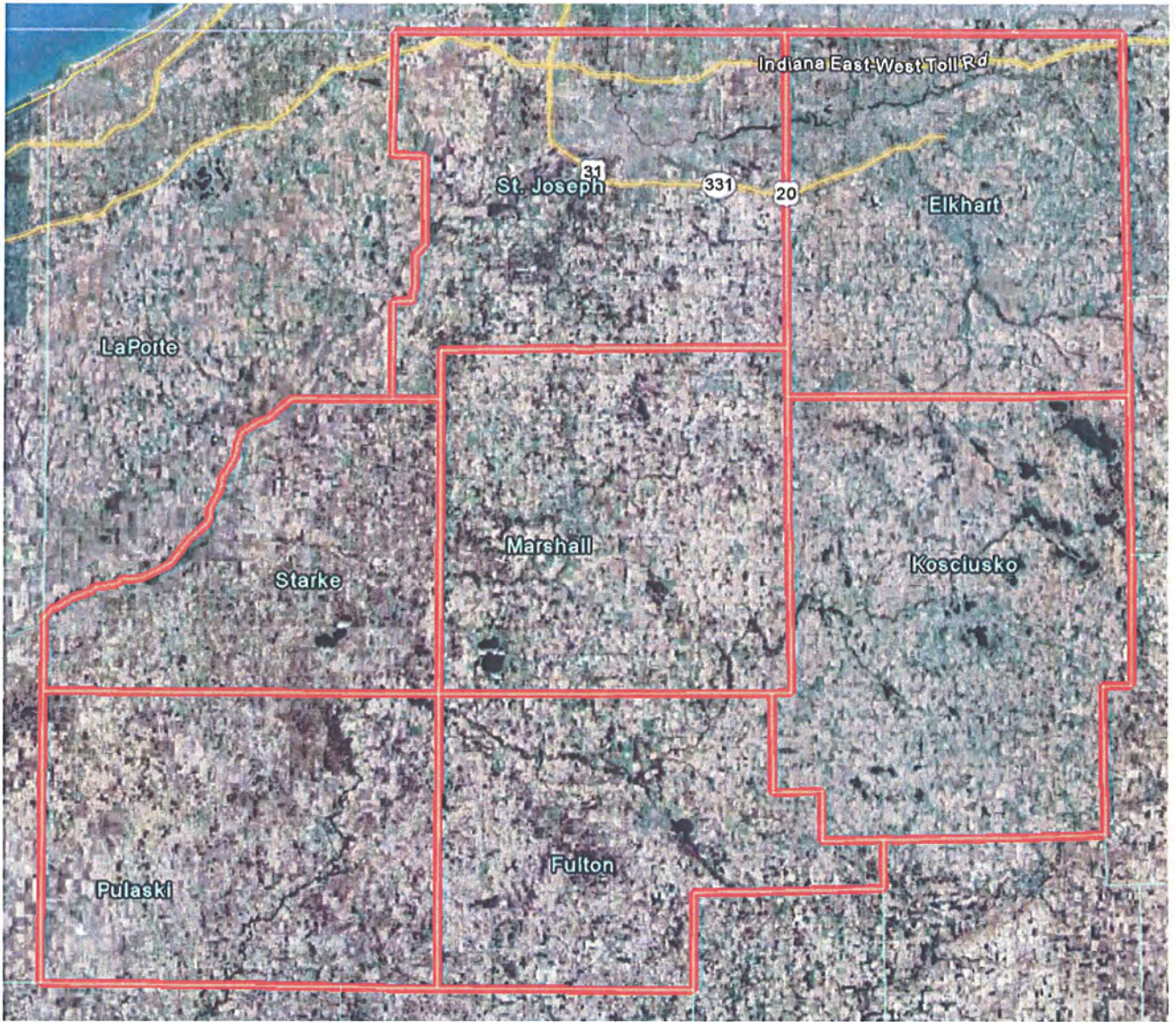
Harrison	Morgan	Cass
Crawford	Marion	Fulton
Washington	Hendricks	Pulaski
Orange	Boone	Kosciusko
Jackson	Tipton	Marshall
Lawrence	Clinton	Starke
Bartholomew	Howard	Elkhart
Brown	Carroll	St. Joseph
Monroe	Wabash	
Johnson	Miami	

For planning purposes, this tier was divided four blocks. The progression of the project started south in block 4 and progressed north to block 1.

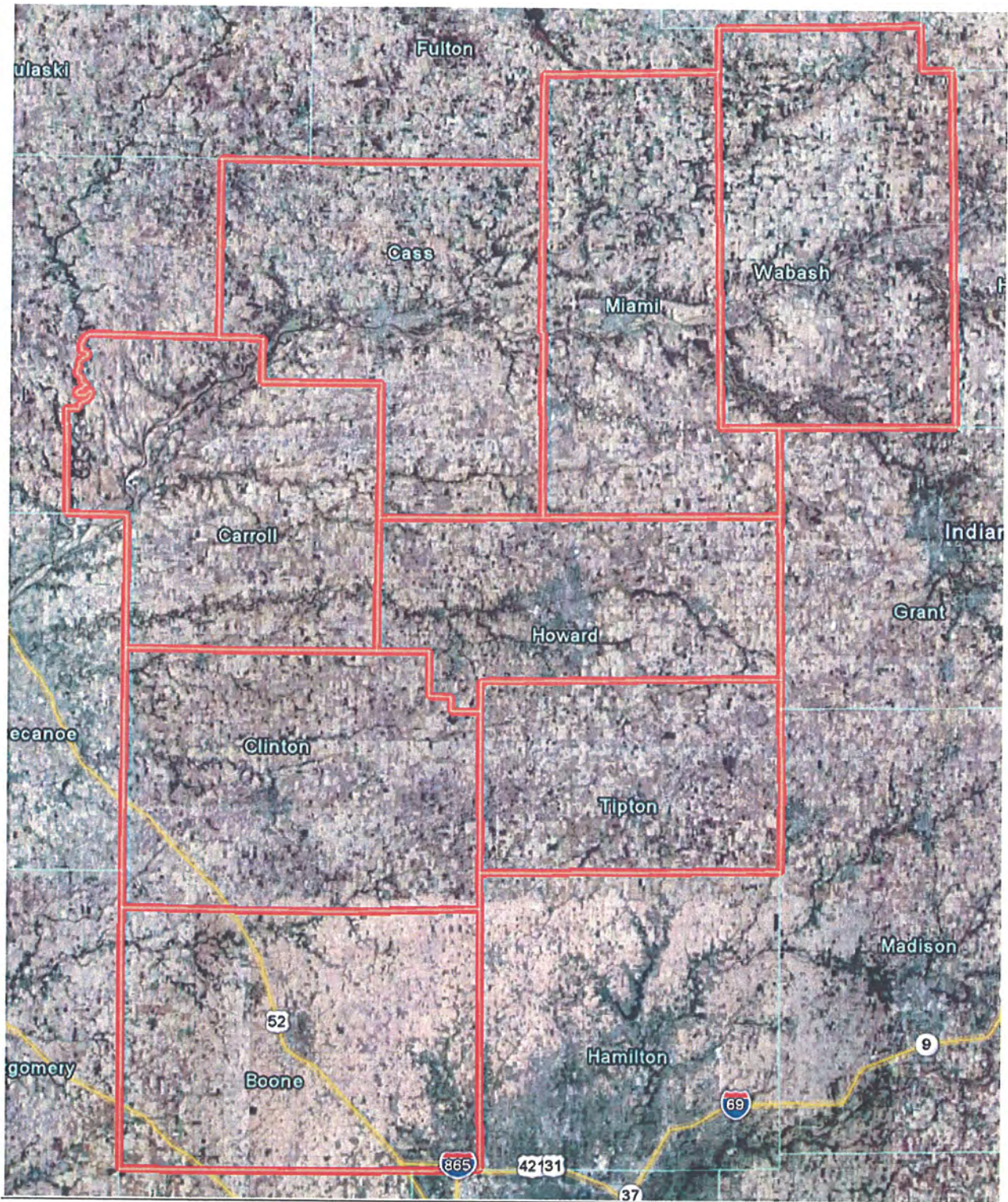
Project Overview



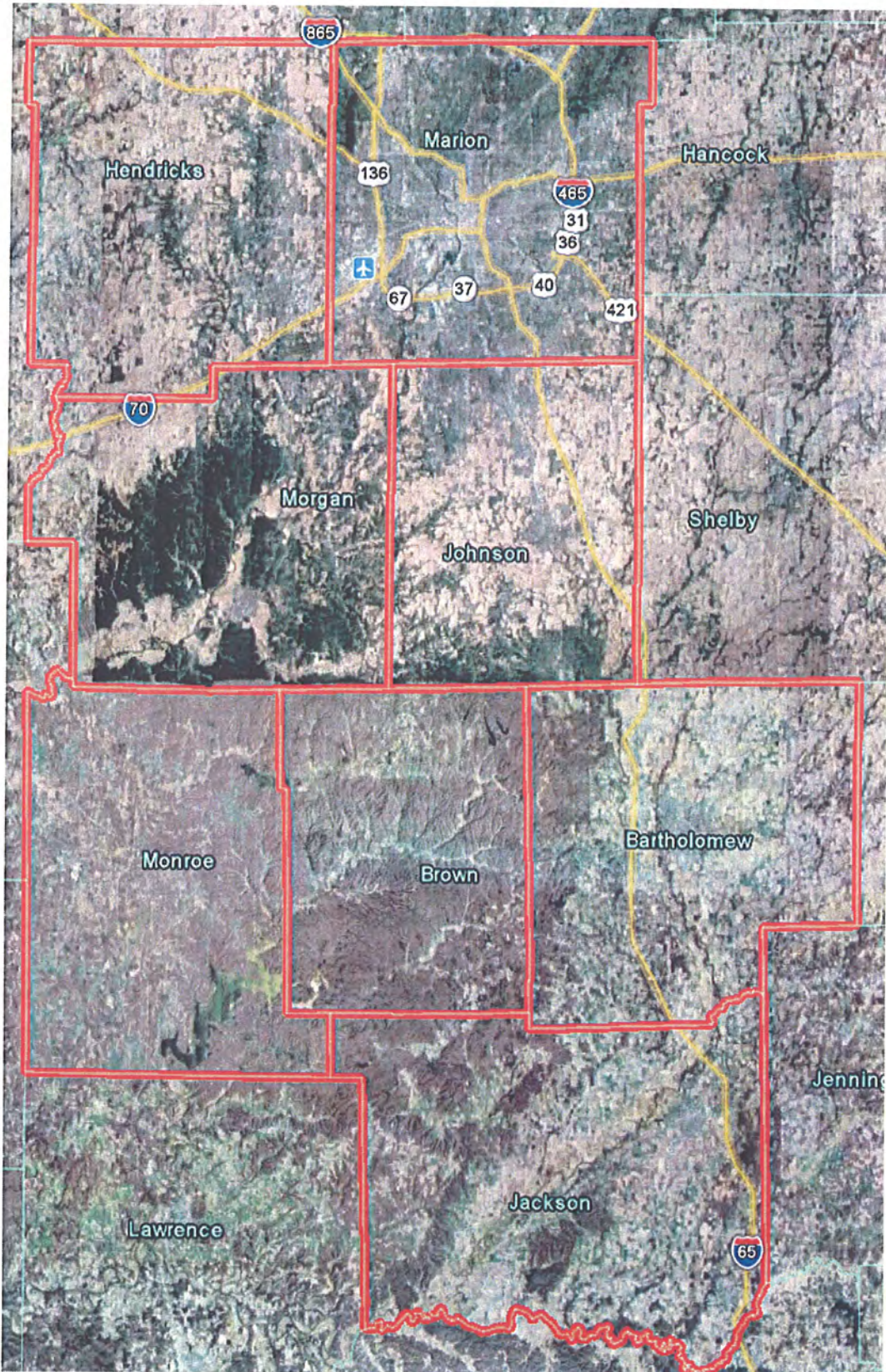
Block 1



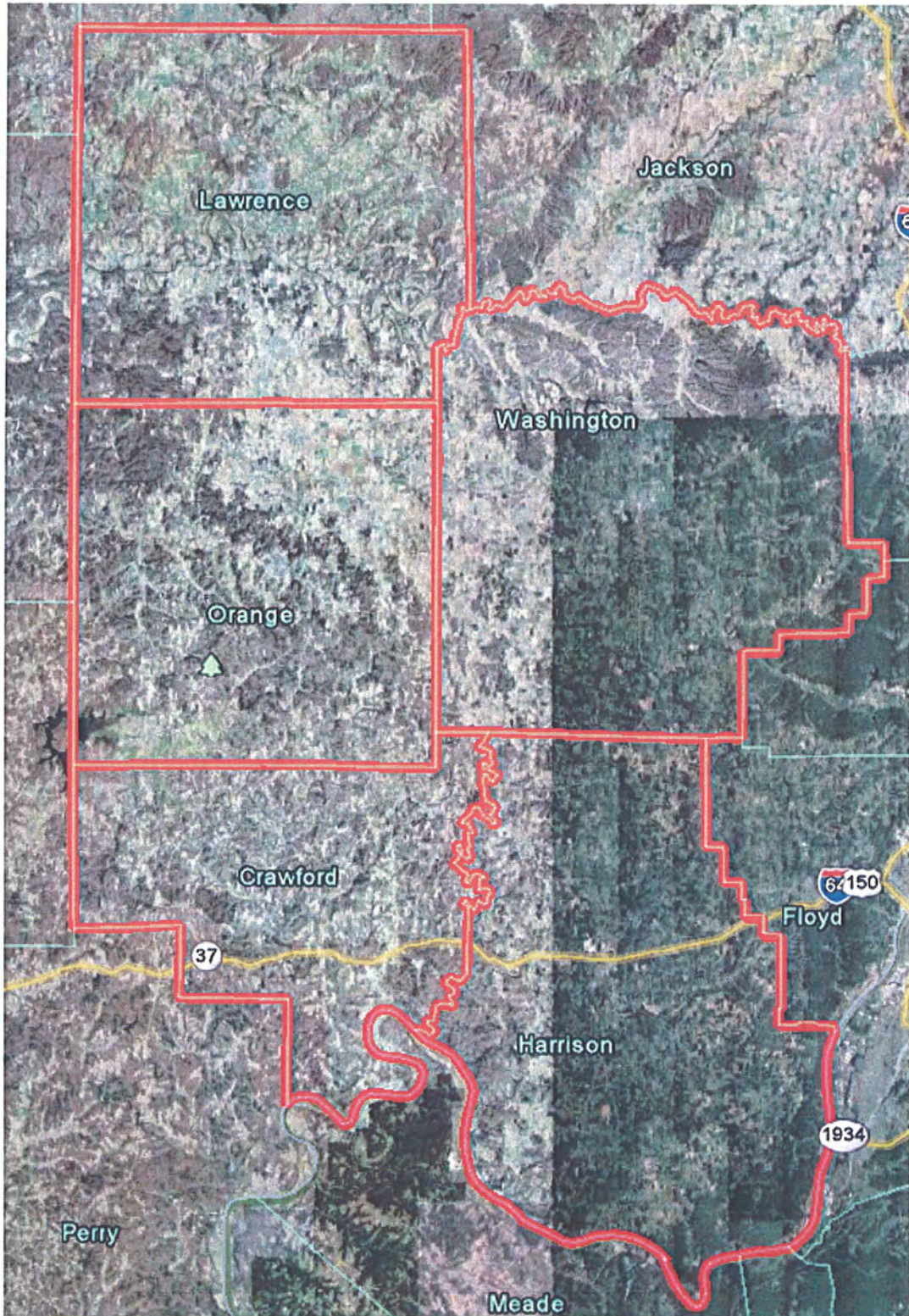
Block 2



Block 3



Block 4



General Guidelines for Field Observations

The GNSS observations for project control and checks to National Geodetic Survey (NGS) control was collected by multi vector real time network (RTN) observations. These method consists of receiving real time corrects for GNSS observation by an internet connection to a central serve that host the GNSS real time network. Our GNSS receivers accessed this data via cellular modem. Where no cellular connection could be made fast static GNSS methods were deployed.

A moveable GNSS base station with internet connection was deployed in areas where the MWRTK network was sparse. When used, the moveable base was place on an NGS High Accuracy Reference Network monument and rovers would connect to this base via direct cellular connection.

A minimum of two vectors were collected for the available RTNs and where possible dual vector were acquired on the same point from both available RTNs. The RTNs used for this project were the Indiana Department of Transportation InCORS and the Midwest RTK VRS Network. Information for each network can be found in the following locations:

InCORS - <http://incors.in.gov/>

MWRTK - <http://mwrtk.net/>

Once the photo ID point was located the GNSS rover first connected to the InCORS network and gained initialization. The GNSS rover then occupied the point and collected real time data for 1 minute and 30 seconds. The rover was then forced to require initialization and the point was then occupied for 1 minute and 30 seconds. These computed values were compared in the field and if inconsistent additional observations were observed. The GNSS rover was then connected to the MWRTk network and the same process was completed. This system of redundancy gave our crews the ability to compare these data set to insure that each point would meet the project accuracy requirements and minimize the need to re-observe points at a later date should the adjustment of these points create any outliers.

GNSS Equipment

GNSS surveying equipment consisted of 2 Trimble R6 GNSS receivers with Trimble TSC2 data collectors and Motorola Q9c internet modems. The movable base used was a Trimble 5700 with a Trimble TSC2 data collector and Motorola Q9c internet modem for internet RTK broadcasting. Files were created and upload to a Dropbox account daily to ensure zero data loss.

Data Adjustment

The observations from each network were analyzed in Trimble Geomatics Office. When vectors were found to disagree with other vectors to the same point they were eliminated prior to least squares adjustment. Blocks 3 and 4 were processed and adjusted individually but blocks 1 and 2 were adjusted together for convenience reasons only. Common points in each block were processed in each adjustment for comparative purposes. All blocks were adjusted using a minimally constrained method both horizontally and vertically holding NGS Continually Operating Reference Stations (CORS) that were a part of the InCORS. Vertical was computed using a one point vertical calibration using the average of the delta of the computed values versus the published values of the NGS vertical control. NGS HARN monuments and benchmarks were checked against the record values to ensure quality of the adjustment.

Coordinate System

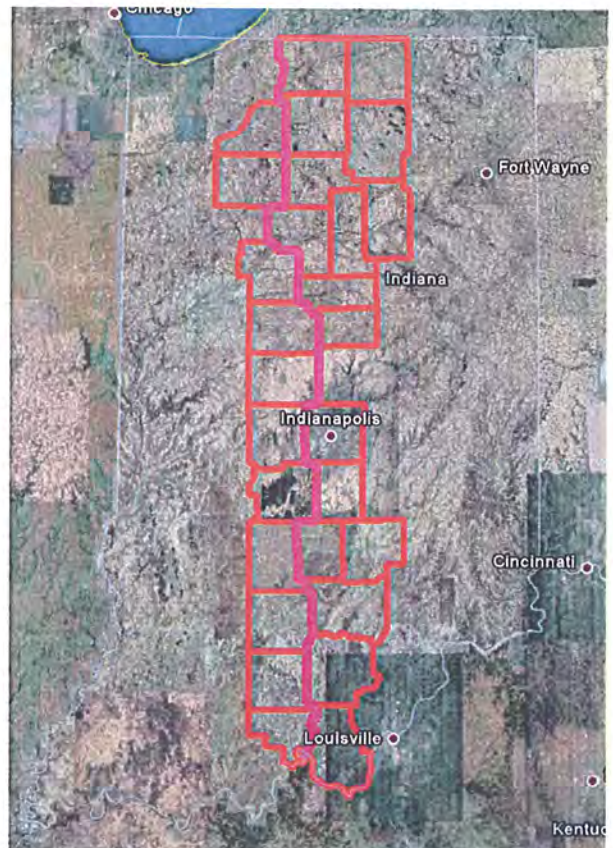
Because of the projects proximity to the dividing line between the Indiana East (1301) and Indiana West (1302) State Plane Coordinate systems, all points were reported in both systems. These values are based on the North American Datum of 1983, National Spatial Reference System of 2007, otherwise known as NAD 83 (2007) and the vertical values are based on the North American Vertical Datum of 1988 (NAVD 88) which was derived by Geoid 2009. Values were also reported in UTM Zone 16 North. All values are reported in US Survey Feet.

The U.S. Survey Foot

It is defined as: 1 meter = 39.37 inches.

If you divide 39.37 by 12 (12 inches per foot), you get the

conversion factor: 1 meter = 3.280833333... U.S. Survey Feet.



Magenta Line depicts the boundary between
Indiana East and Indiana West

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix A

Comparison of Published NGS Control to Computed Values



USI Control Report

Project: 2011-024

Description: 2011 Statewide Ortho - Block 1 & 2 - Elkhart Cc

Client: Woolpert

Datum: North American Datum of 1983 (NARS 2007)

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Block 1 & 2 - NGS Benchmark Checks

NGS PID	Record Values				Per Survey				Comparison				
	Ind. East North USFT	Ind. East East USFT	NAVD 1988 Elevation	Ind. East North USFT	Ind. East East USFT	Ind. East North USFT	Delta East	Delta North	Delta East	Delta North	NAVD 1988 Elevation	Elevation After Vertical Shift	Delta Elevation (Post Shift)
AH6479	2371569.217	325093.362	806.724	2371569.253	325093.332	-0.036	0.030	806.541	-0.183	806.748	806.748	806.748	0.024
LA1380	1905139.871	284065.433	864.211	1905139.792	284065.454	0.079	-0.021	863.923	-0.288	864.130	864.130	864.130	-0.081
LA1637	2028735.786	281410.917	771.222	2028735.828	281367.578			771.389	0.167	771.596	771.596	771.596	0.374
LA1681	2063450.985	266443.657	767.656	2063450.834	266443.623			767.332	-0.324	767.539	767.539	767.539	-0.117
LA1728		868.847	1954241.669	334315.854				868.728	-0.119	868.935	868.935	868.935	0.088
LA1838	1989125.059	283406.880	806.442	1989124.942	283406.912	0.117	-0.032	806.224	-0.218	806.431	806.431	806.431	-0.011
LA1890		830.353	1936430.129	241906.803				830.156	-0.197	830.363	830.363	830.363	0.010
LB0066		709.877	1994320.732	157513.708				709.662	-0.215	709.869	709.869	709.869	-0.008
LB0178		763.269	2041840.371	173654.755				762.852	-0.417	763.059	763.059	763.059	-0.210
LB0247	2056967.034	228326.940	802.006	2056967.035	228326.962	-0.001	-0.022	801.727	-0.279	801.934	801.934	801.934	-0.072
LB0274	1974277.406	19911.405	791.796	1974277.401	19911.398	0.005	0.007	791.531	-0.265	791.738	791.738	791.738	-0.058
LB0482	1795797.498	172543.990	937.574	1795797.518	172544.082	-0.020	-0.092	937.257	-0.317	937.464	937.464	937.464	-0.110
LB0534	1836513.619	140091.576	919.749	1836513.476	140091.495	0.143	0.081	919.279	-0.470	919.486	919.486	919.486	-0.263
LB0685		745.041	1878629.103	70657.405				744.851	-0.190	745.058	745.058	745.058	0.017
LB0781	1872828.787	25822.193	681.537	1872828.780	25822.179	0.007	0.014	681.324	-0.213	681.531	681.531	681.531	-0.006
LB0881	1760454.654	61352.032	887.984	1760454.705	61351.983	-0.051	0.049	887.895	-0.099	888.102	888.102	888.102	0.108
LB0927		790.189	1831957.707	23479.986				789.967	-0.232	790.174	790.174	790.174	-0.025
LB1086	2049381.307	-27391.950	679.520	2049381.308	-27391.938	-0.001	-0.012	679.450	-0.070	679.657	679.657	679.657	0.137
LB1126	2049229.306	29499.083	684.549	2049229.409	29498.944	-0.103	0.139	684.411	-0.138	684.618	684.618	684.618	0.089
LB1139	2091702.545	-3627.021	672.528	2091702.564	-3627.091	-0.019	0.070	672.217	-0.311	672.424	672.424	672.424	-0.104
LB1153	2085573.843	61491.025	701.613	2085573.809	61490.940	0.034	0.085	701.367	-0.246	701.574	701.574	701.574	-0.039
LB1175	1975612.109	10057.970	678.417	1975612.126	10057.944	-0.017	0.026	678.199	-0.218	678.406	678.406	678.406	-0.011
MD0968		847.899	2096606.147	375546.478				847.825	-0.074	848.032	848.032	848.032	0.133
MD1058	232218.426	279173.975	843.551	232218.409	279173.951	0.017	0.024	843.338	-0.213	843.545	843.545	843.545	-0.006
MD1074		893.673	2264120.069	35255.163				893.389	-0.284	893.596	893.596	893.596	-0.077
MD1240		864.867	2152927.628	253687.274				864.651	-0.216	864.858	864.858	864.858	-0.009
MD1344	228079.076	284681.288	810.199	228079.087	284681.307	-0.011	-0.019	810.059	-0.140	810.266	810.266	810.266	0.067
ME0042	2327316.175	168455.693	805.299	2327316.119	168455.722	0.056	-0.029	808.132	-0.167	808.339	808.339	808.339	0.040
ME0261	2216573.892	162967.802	835.622	2216573.862	162967.815	0.030	-0.013	835.542	-0.080	835.749	835.749	835.749	0.127
ME0445		820.740	2112593.876	209212.253				820.559	-0.181	820.766	820.766	820.766	0.026
ME0522	2237041.661	69592.448	682.092	2237041.690	69592.466	-0.029	-0.038	682.020	-0.072	682.227	682.227	682.227	0.135
ME0756		723.279	2100451.866	98698.968				723.089	-0.190	723.296	723.296	723.296	0.017
ME0880		851.885	2341065.250	96692.034				851.761	-0.124	851.968	851.968	851.968	0.083
ME1360	2168715.292	-47031.727	666.554	2168715.361	-47031.758	-0.069	0.031	666.381	-0.173	666.588	666.588	666.588	0.034
ME3288	2359267.509	202134.237	765.066	2359267.444	202134.241	0.065	-0.004	764.895	-0.171	765.102	765.102	765.102	0.036

Outliers

Vert. Ave. (Excluding Outliers) -0.207

USI Control Report

Project: 2011-024

Description: 2011 Statewide Ortho - Block 3

Client: Woolpert

Datum: North American Datum of 1983 (NARS 2007)

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet



Block 3 - NGS Benchmark Checks

NGS PID	Record Values				Per Survey				Comparison			
	Ind. East North USFT	Ind. East East USFT	NAVD 1988 Elevation	Ind. East North USFT	Ind. East East USFT	Delta North	Delta East	NAVD 1988 Elevation	Delta Elevation	Elevation After Vertical Shift	Delta Elevation	Delta Elevation (Post Shift)
HZ1686			533.700	1301950.593	274748.873			533.513	-0.187	533.634	-0.187	0.066
HZ1880	1355906.816	280333.081	586.990	1355906.918	280333.016	0.102	-0.065	586.862	-0.128	586.983	-0.128	0.007
KA0159	1593004.621	132146.390	674.190	1593004.723	132146.377	0.102	-0.013	674.096	-0.094	674.217	-0.094	-0.027
JA0188	1230076.416	166362.114	841.393	1230076.542	166362.247	0.126	0.133	841.359	-0.034	841.480	-0.034	-0.087
JZ2083			643.040	1453139.699	263407.927			642.882	-0.158	643.003	-0.158	0.037
JZ2219	1420896.927	256124.161	611.554	1420897.000	256124.153	0.073	-0.008	611.443	-0.111	611.564	-0.111	-0.010
JZ2225	1448094.005	278908.797	637.627	1448094.061	278908.791	0.056	-0.006	637.466	-0.161	637.587	-0.161	0.040
JZ2479			796.114	1610443.042	247734.975			795.951	-0.163	796.072	-0.163	0.042
JZ2825	1483907.736	368926.754	904.746	1483907.757	368926.746	0.021	-0.008	904.673	-0.073	904.794	-0.073	-0.048
KA0010			685.937	1573241.043	162775.611			685.698	-0.239	685.819	-0.239	0.118
KA0314	1544763.744	109080.392	616.367	1544763.913	109080.322	0.169	-0.070	616.281	-0.086	616.402	-0.086	-0.035
KA0332			617.633	1436851.958	178073.301			617.650	0.017	617.771	0.017	-0.137
KA0405	1374397.139	-5337.751	672.561	1374397.251	-5337.672	0.112	0.079	672.537	-0.024	672.658	-0.024	-0.097
KA2083			786.000	1529503.869	12419.033			785.884	-0.116	786.005	-0.116	-0.005
KA0601	1596937.657	3448.763	807.410	1596937.698	3448.753	0.041	-0.010	807.272	-0.138	807.393	-0.138	0.017
KA0735			846.042	1679010.401	9054.028			846.002	-0.040	846.123	-0.040	-0.081
KA1665	1616533.536	91346.930	821.767	1616533.551	91347.026	0.015	0.096	821.598	-0.169	821.719	-0.169	0.048
JZ2109			741.660	1368725.867	332322.329			741.392	-0.268	741.513	-0.268	0.147

Outliers

Vert. Ave. (Excluding Outliers) -0.121

USI Control Report

Project: 2011-024

Description: 2011 Statewide Ortho - Block 4

Client: Woolpert

Datum: North American Datum of 1983 (NARS 2007)

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet



Block 4 - NGS Benchmark Checks

NGS PID	Record Values										Per Survey				Comparison		
	Ind. East		Ind. East		NAVD 1988		Ind. East		Ind. East		Delta East	Delta North	Delta East	Delta Elevation	Elevation After Vertical Shift	Delta Elevation	Delta Elevation (Post Shift)
	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT							
HZ1348	1105727.387	259273.676	259273.676	259273.648	917.091	533.703	1105727.401	259273.648	0.014	-0.028	917.061	-0.030	-0.181	533.710	-0.181	-0.007	
HZ1686			533.703		533.703									533.522	-0.181	-0.007	
HZ1880	1355906.816	280333.081	280333.081	280333.000	586.987	536.971	1355906.855	280333.000	0.039	-0.081	586.856	-0.131	-0.131	587.044	-0.131	-0.057	
JA0009			536.971		536.971									536.817	-0.154	-0.034	
JA0132	1308506.012	109096.853	109096.853	109096.837	726.987	726.987	1308506.016	109096.837	0.004	-0.016	726.783	-0.204	-0.204	726.971	-0.204	0.016	
JA0160			726.987		726.987									649.988	-0.175	-0.013	
JA0188	1230076.416	166362.114	166362.114	166362.167	841.393	841.393	1230076.435	166362.167	0.019	0.053	841.281	-0.112	-0.112	841.469	-0.112	-0.076	
JA0279	1128413.389	114124.535	114124.535	114124.573	581.032	581.032	1128413.410	114124.573	0.021	0.038	580.774	-0.258	-0.258	580.962	-0.258	0.070	
JA0453			581.032		581.032									611.977	-0.190	0.002	
JA0629			801.478		801.478									801.335	-0.143	-0.045	
JA2126	1187560.167	47639.774	47639.774	47639.676	787.400	787.400	1187560.262	47639.676	0.095	-0.098	787.115	-0.285	-0.285	787.303	-0.285	0.097	
JZ2075			692.026		692.026												
JZ2083			643.040		643.040									642.828	-0.212	0.024	
JZ2109			741.655		741.655									741.396	-0.259	0.071	
JZ2219	1420896.927	256124.161	256124.161	256124.141	611.554	611.554	1420896.947	256124.141	0.020	-0.020	611.424	-0.130	-0.130	611.612	-0.130	-0.058	
JZ2225	1448094.005	278908.797	278908.797	278908.777	637.627	637.627	1448094.007	278908.777	0.002	-0.020	637.434	-0.193	-0.193	637.622	-0.193	0.005	
KA0332			617.633		617.633									617.614	-0.019		
KA0405	1374397.139	-5337.751	-5337.751	-5337.728	672.561	672.561	1374397.192	-5337.728	0.053	0.023	672.519	-0.042	-0.042				

Red = Outliers

Vert. Ave. (Excluding Outliers) -0.188

2011 INDIANA STATE-WIDE
IMAGERY AND LIDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix B

NGS Control Data Sheets

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

DATABASE = , PROGRAM = datasheet, VERSION = 7.86

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

AH8479 *****

AH8479 DESIGNATION - E 370

AH8479 PID - AH8479

AH8479 STATE/COUNTY- IN/ELKHART

AH8479 USGS QUAD - CONSTANTINE (1972)

AH8479

AH8479 *CURRENT SURVEY CONTROL

AH8479

AH8479* NAD 83(2007)- 41 45 32.55584(N) 085 40 39.45226(W) ADJUSTED

AH8479* NAVD 88 - 245.890 (meters) 806.72 (feet) ADJUSTED

AH8479

AH8479 EPOCH DATE - 2002.00

AH8479 X - 359,130.928 (meters) COMP

AH8479 Y - -4,751,471.051 (meters) COMP

AH8479 Z - 4,225,818.846 (meters) COMP

AH8479 LAPLACE CORR- 0.55 (seconds) DEFLEC09

AH8479 ELLIP HEIGHT- 212.624 (meters) (04/07/09) ADJUSTED

AH8479 GEOID HEIGHT- -33.25 (meters) GEOID09

AH8479 DYNAMIC HT - 245.801 (meters) 806.43 (feet) COMP

AH8479 MODELED GRAV- 980,253.7 (mgal) NAVD 88

AH8479

AH8479 HORZ ORDER - FIRST

AH8479 VERT ORDER - FIRST CLASS II

AH8479 ELLP ORDER - THIRD CLASS I

AH8479

AH8479.The horizontal coordinates were established by GPS observations

AH8479.and adjusted by the National Geodetic Survey in April 2009.

AH8479

AH8479.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

AH8479.See National Readjustment for more information.

AH8479.The horizontal coordinates are valid at the epoch date displayed above.

AH8479.The epoch date for horizontal control is a decimal equivalence

AH8479.of Year/Month/Day.

AH8479

AH8479.The orthometric height was determined by differential leveling and

AH8479.adjusted in March 2005.

AH8479.No vertical observational check was made to the station.

AH8479

AH8479.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AH8479

AH8479.The Laplace correction was computed from DEFLEC09 derived deflections.

AH8479

AH8479.The ellipsoidal height was determined by GPS observations

AH8479.and is referenced to NAD 83.

AH8479

AH8479.The geoid height was determined by GEOID09.

AH8479

AH8479.The dynamic height is computed by dividing the NAVD 88

AH8479.geopotential number by the normal gravity value computed on the

AH8479.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AH8479.degrees latitude (g = 980.6199 gals.).

AH8479

AH8479.The modeled gravity was interpolated from observed gravity values.

AH8479

AH8479;	North	East	Units	Scale	Factor	Converg.
AH8479;SPC IN E	- 722,855.743	99,088.655	MT	0.99996668	-0 00 26.3	
AH8479;SPC IN E	- 2,371,569.22	325,093.36	sFT	0.99996668	-0 00 26.3	
AH8479;UTM 16	- 4,623,868.588	609,929.206	MT	0.99974871	+0 52 50.8	
AH8479!	- Elev Factor	x Scale Factor	=	Combined Factor		
AH8479!SPC IN E	- 0.99996665	x 0.99996668	=	0.99993333		
AH8479!UTM 16	- 0.99996665	x 0.99974871	=	0.99971537		

AH8479

AH8479

SUPERSEDED SURVEY CONTROL

AH8479

AH8479	NAD 83(1997)-	41 45 32.55570(N)	085 40 39.45209(W)	AD()	1
AH8479	ELLIP H (02/05/07)	212.618 (m)		GP()	3 1
AH8479	NAVD 88 (02/05/07)	245.89 (m)	806.7 (f)	LEVELING	3

AH8479

AH8479.Superseded values are not recommended for survey control.

AH8479.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AH8479.See file dsdata.txt to determine how the superseded data were derived.

AH8479

AH8479_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TFM0992923868(NAD 83)

AH8479_MARKER: F = FLANGE-ENCASED ROD

AH8479_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

AH8479_STAMPING: E 370 1992

AH8479_MARK LOGO: NGS

AH8479_PROJECTION: RECESSED 5 CENTIMETERS

AH8479_MAGNETIC: N = NO MAGNETIC MATERIAL

AH8479_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AH8479_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AH8479+SATELLITE: SATELLITE OBSERVATIONS - November 09, 2006

AH8479_ROD/PIPE-DEPTH: 25.6 meters

AH8479

AH8479	HISTORY	- Date	Condition	Report By
AH8479	HISTORY	- 1992	MONUMENTED	NGS
AH8479	HISTORY	- 20010529	GOOD	NGS
AH8479	HISTORY	- 20061109	GOOD	WOOLPT

AH8479

AH8479

STATION DESCRIPTION

AH8479

AH8479'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992 (RHK)

AH8479'4.7 KM (2.90 MI) SOUTHERLY ALONG U.S. HIGHWAY 131 FROM THE JUNCTION OF

AH8479'U.S. HIGHWAY 12 IN WHITE PIGEON, MICHIGAN, AT THE MICHIGAN-INDIANA

AH8479'STATE LINE, 38.7 M (127.0 FT) NORTHEAST OF THE NORTH CORNER OF DICKS

AH8479'AUTO PARTS, 32.5 M (106.6 FT) WEST-NORTHWEST OF AND LEVEL WITH THE

AH8479'HIGHWAY CENTERLINE, 6.6 M (21.7 FT) SOUTH OF THE CENTER OF THE SOUTH

AH8479'DRIVEWAY LEADING TO THE PLAZA MOTEL, 0.6 M (2.0 FT) SOUTHWEST OF A

AH8479'WITNESS POST, AND 0.5 M (1.6 FT) SOUTH OF A SPLIT RAIL FENCE.

AH8479'NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

AH8479

4/28/2011

DATASHEETS

AH8479

STATION RECOVERY (2001)

AH8479

AH8479'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2001 (RLR)

AH8479'RECOVERED AS DESCRIBED.

AH8479

AH8479

STATION RECOVERY (2006)

AH8479

AH8479'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2006 (JKN)

AH8479'THIS STATION WAS RECOVERED AS DESCRIBED AND FOUND IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

HZ1348 *****

HZ1348 FBN - This is a Federal Base Network Control Station.

HZ1348 DESIGNATION - EDWARD 2

HZ1348 PID - HZ1348

HZ1348 STATE/COUNTY- IN/FLOYD

HZ1348 USGS QUAD - GEORGETOWN (1993)

HZ1348

HZ1348

HZ1348

*CURRENT SURVEY CONTROL

HZ1348* NAD 83(2007)- 38 17 01.83110(N) 085 54 22.99717(W) ADJUSTED

HZ1348* NAVD 88 - 279.530 (meters) 917.09 (feet) ADJUSTED

HZ1348

HZ1348 EPOCH DATE - 2002.00

HZ1348 X - 357,870.911 (meters) COMP

HZ1348 Y - -5,000,374.206 (meters) COMP

HZ1348 Z - 3,930,375.642 (meters) COMP

HZ1348 LAPLACE CORR- -1.40 (seconds) DEFLEC09

HZ1348 ELLIP HEIGHT- 246.274 (meters) (02/10/07) ADJUSTED

HZ1348 GEOID HEIGHT- -33.25 (meters) GEOID09

HZ1348 DYNAMIC HT - 279.337 (meters) 916.46 (feet) COMP

HZ1348

HZ1348 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

HZ1348 Type PID Designation North East Ellip

HZ1348 -----

HZ1348 NETWORK HZ1348 EDWARD 2 0.47 0.37 1.16

HZ1348 -----

HZ1348 MODELED GRAV- 979,931.4 (mgal) NAVD 88

HZ1348

HZ1348 VERT ORDER - FIRST CLASS II

HZ1348

HZ1348.The horizontal coordinates were established by GPS observations

HZ1348.and adjusted by the National Geodetic Survey in February 2007.

HZ1348

HZ1348.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

HZ1348.See National Readjustment for more information.

HZ1348.The horizontal coordinates are valid at the epoch date displayed above.

HZ1348.The epoch date for horizontal control is a decimal equivalence

HZ1348.of Year/Month/Day.

HZ1348

HZ1348.The orthometric height was determined by differential leveling and

HZ1348.adjusted in June 1991.

HZ1348

HZ1348.The X, Y, and Z were computed from the position and the ellipsoidal ht.

HZ1348

HZ1348.The Laplace correction was computed from DEFLEC09 derived deflections.

HZ1348

HZ1348.The ellipsoidal height was determined by GPS observations

HZ1348.and is referenced to NAD 83.

HZ1348

HZ1348.The geoid height was determined by GEOID09.

HZ1348

HZ1348.The dynamic height is computed by dividing the NAVD 88

HZ1348.geopotential number by the normal gravity value computed on the

HZ1348.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

HZ1348.degrees latitude (g = 980.6199 gals.).

HZ1348

HZ1348.The modeled gravity was interpolated from observed gravity values.

HZ1348

HZ1348; North East Units Scale Factor Converg.

HZ1348;SPC IN E - 337,026.382 79,026.774 MT 0.99997208 -0 08 54.7

HZ1348;SPC IN E - 1,105,727.39 259,273.67 sFT 0.99997208 -0 08 54.7

HZ1348;UTM 16 - 4,237,874.214 595,646.306 MT 0.99971266 +0 40 39.4

HZ1348

HZ1348! - Elev Factor x Scale Factor = Combined Factor

HZ1348!SPC IN E - 0.99996136 x 0.99997208 = 0.99993344

HZ1348!UTM 16 - 0.99996136 x 0.99971266 = 0.99967403

HZ1348

HZ1348	PID	Reference Object	Distance	Geod. Az
HZ1348				dddmmss.s
HZ1348	CG8575	EDWARD 2 RM 3	23.560 METERS	23841
HZ1348	HZ1349	EDWARD 2 RM 4	8.461 METERS	26956
HZ1348	HZ2294	EDWARD	23.582 METERS	29819
HZ1348	HZ1350	EDWARD RM 1	37.497 METERS	33854

HZ1348

HZ1348

SUPERSEDED SURVEY CONTROL

HZ1348

HZ1348 ELLIP H (01/19/05) 246.279 (m) GP() 4 1

HZ1348 NAD 83(1997)- 38 17 01.83167(N) 085 54 22.99745(W) AD() B

HZ1348 ELLIP H (04/10/98) 246.336 (m) GP() 4 1

HZ1348 NAD 83(1993)- 38 17 01.83077(N) 085 54 23.00010(W) AD() 2

HZ1348 NAD 83(1986)- 38 17 01.83449(N) 085 54 23.00672(W) AD() 2

HZ1348 NAD 27 - 38 17 01.59100(N) 085 54 23.13100(W) AD() 2

HZ1348 NAVD 88 (04/10/98) 279.53 (m) 917.1 (f) LEVELING 3

HZ1348 NGVD 29 (??/??/92) 279.664 (m) 917.53 (f) ADJ UNCH 1 2

HZ1348

HZ1348.Superseded values are not recommended for survey control.

HZ1348.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

HZ1348.See file dsdata.txt to determine how the superseded data were derived.

HZ1348

HZ1348_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEH9564637874(NAD 83)

HZ1348_MARKER: DS = TRIANGULATION STATION DISK

HZ1348_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

HZ1348_SP_SET: SET IN TOP OF CONCRETE MONUMENT

HZ1348_STAMPING: EDWARD 2 1948

HZ1348_MARK LOGO: CGS

HZ1348_MAGNETIC: N = NO MAGNETIC MATERIAL

HZ1348_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

HZ1348+STABILITY: SURFACE MOTION

HZ1348_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

HZ1348+SATELLITE: SATELLITE OBSERVATIONS - November 05, 2003

HZ1348

HZ1348 HISTORY - Date Condition Report By

4/28/2011

DATASHEETS

HZ1348	HISTORY	- 1948	MONUMENTED	CGS
HZ1348	HISTORY	- 1965	GOOD	CGS
HZ1348	HISTORY	- 1965	GOOD	NGS
HZ1348	HISTORY	- 1973	GOOD	NGS
HZ1348	HISTORY	- 1973	GOOD	NGS
HZ1348	HISTORY	- 19970826	GOOD	SEC
HZ1348	HISTORY	- 20030617	GOOD	NGS
HZ1348	HISTORY	- 20031105	GOOD	SEC

HZ1348

HZ1348

HZ1348

STATION DESCRIPTION

HZ1348'DESCRIBED BY COAST AND GEODETIC SURVEY 1948 (RCB)

HZ1348'STATION IS LOCATED AT THE JUNCTION OF STATE HIGHWAYS 62 AND 64 IN THE

HZ1348'SMALL SETTLEMENT OF EDWARDSVILLE, WHICH IS ABOUT 5 MILES WEST

HZ1348'OF NEW ALBANY. IT IS IDENTICAL WITH EDWARD NO. 2 1947 AND IS 76 FEET

HZ1348'EAST OF THE SOUTHEAST CORNER OF THE BRICK STORE, 72 FEET SOUTH OF

HZ1348'THE CENTER OF HIGHWAY 64, 70 FEET NORTH OF THE CENTER OF HIGHWAY 62

HZ1348'AND 55 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF THE STORE. THE

HZ1348'MARK IS FLUSH WITH THE GROUND AND THE DISK IS STAMPED EDWARD 2 1948.

HZ1348'

HZ1348'REFERENCE MARK NO. 1 IS 123.00 FEET NORTH OF THE STATION. IT IS 44

HZ1348'FEET NORTHEAST OF THE CENTER OF HIGHWAY 64 AND 2 FEET WEST OF A

HZ1348'TELEPHONE POLE. THE MARK IS FLUSH WITH THE GROUND AND THE DISK IS

HZ1348'STAMPED EDWARD NO. 1 1947.

HZ1348'

HZ1348'REFERENCE MARK NO. 3 IS 77.30 FEET WEST OF THE STATION AT THE

HZ1348'SOUTHEAST CORNER OF THE STORE AND 78 FEET NORTH OF THE CENTER OF

HZ1348'HIGHWAY 62. THE MARK IS FLUSH WITH THE GROUND AND THE DISK IS STAMPED

HZ1348'EDWARD NO 3 1948.

HZ1348'

HZ1348'AZIMUTH MARK IS 0.45 MILE WEST-NORTHWEST OF THE STATION ON THE SOUTH

HZ1348'SIDE OF HIGHWAY 64. IT IS 36 FEET SOUTH OF THE CENTER OF THE

HZ1348'HIGHWAY, 3 FEET NORTHEAST OF A TELEPHONE POLE AND 1.8 FEET NORTH OF A

HZ1348'WITNESS POST. THE MARK PROJECTS 4 INCHES AND THE DISK IS STAMPED

HZ1348'EDWARD 1947.

HZ1348'

HZ1348'HEIGHT OF LIGHT ABOVE STATION MARK 1 METER.

HZ1348

HZ1348

HZ1348

STATION RECOVERY (1965)

HZ1348'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1965 (DDJ)

HZ1348'THE STATION MARK, STAMPED EDWARD 2 1948, IS ABOUT 3.0 MILES EAST

HZ1348'ALONG THE SOUTHERN RAILROAD FROM THE UNITED BRETHERN CHURCH AT

HZ1348'GEORGETOWN, THENCE 1.1 MILES SOUTHEAST ALONG STATE HIGHWAY 64, IN

HZ1348'SECTION 1, T 3 S, R 5 E, AT THE INTERSECTION OF U.S.

HZ1348'HIGHWAY 460 AND STATE HIGHWAYS 64 AND 62, AT THE SMALL SETTLEMENT OF

HZ1348'EDWARDSVILLE, 76 FEET EAST OF THE SOUTHEAST CORNER OF HITNERS

HZ1348'BRICK STORE BUILDING, 72 FEET SOUTH OF THE CENTER LINE OF STATE

HZ1348'HIGHWAY 64, 70 FEET NORTH OF THE CENTER LINE OF HIGHWAYS 460

HZ1348'AND 62, 23 FEET EAST OF THE EAST CORNER OF A CONCRETE BOX AROUND A

HZ1348'WELL, ABOUT LEVEL WITH THE HIGHWAYS, SET IN THE TOP OF A

HZ1348'CONCRETE POST 4 INCHES BELOW THE SURFACE OF THE GROUND.

HZ1348'

HZ1348'R.M. 1, STAMPED EDWARD NO 1 1947, IS 123 FEET NORTH AND ACROSS STATE

HZ1348'HIGHWAY 64 FROM EDWARD 2 1948, 44 FEET NORTHEAST OF THE CENTER

HZ1348'LINE OF STATE HIGHWAY 64, 2 FEET WEST OF A TELEPHONE POLE, ABOUT

HZ1348'LEVEL WITH THE HIGHWAY, SET IN THE TOP OF A CONCRETE POST

4/28/2011

DATASHEETS

HZ1348'FLUSH WITH THE GROUND.

HZ1348'

HZ1348'R.M. 3 WAS SEARCHED FOR BUT NOT RECOVERED.

HZ1348'

HZ1348'THE AZIMUTH MARK WAS SEARCHED FOR BUT NOT RECOVERED.

HZ1348

HZ1348

STATION RECOVERY (1965)

HZ1348

HZ1348'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1965

HZ1348'4.1 MI E FROM GEORGETOWN.

HZ1348'ABOUT 3.0 MILES EAST ALONG THE SOURR FROM THE UNITED

HZ1348'BRETHERN CHURCH AT GEORGETOWN, THENCE 1.1 MILES SOUTHEAST ALONG

HZ1348'STATE HIGHWAY 64, IN SECTION 1, T 3 S, R 5 E, AT THE INTERSECTION

HZ1348'OF U.S. HIGHWAY 460 AND STATE HIGHWAYS 64 AND 62, AT THE SMALL

HZ1348'SETTLEMENT O EDWARDSVILLE, 76 FEET EAST OF THE SOUTHEAST CORNER

HZ1348'OF HITNERS BRICK STORE BUILDING, 72 FEET SOUTH OF THE CENTER LINE

HZ1348'OF STATE HIGHWAY 64, 70 FEET NORTH OF THE CENTER LINE OF U.S.

HZ1348'HIGHWAY 460 AND STATE HIGHWAY 62, 23 FEET EAST OF THE EAST CORNER

HZ1348'OF A CONCRETE BOX AROUND A WELL, ABOUT LEVEL WITH THE HIGHWAYS,

HZ1348'AND SET IN THE TOP OF A CONCRETE POST WHICH IS 4 INCHES BELOW

HZ1348'THE SURFACE OF THE GROUND.

HZ1348

HZ1348

STATION RECOVERY (1973)

HZ1348

HZ1348'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973 (LFS)

HZ1348'THE STATION MARK WAS FOUND IN GOOD CONDITION. REFERENCE MARK 1 WAS

HZ1348'FOUND TO BE LEANING SLIGHTLY TO THE EAST. THE DISTANCE TO

HZ1348'REFERENCE MARK 1 CHECKED. REFERENCE MARK 3 SITE HAS BEEN PAVED OVER

HZ1348'AND NO ATTEMPT WAS MADE TO DIG IT UP. THE AZIMUTH MARK WAS

HZ1348'SEARCHED FOR BUT NOT FOUND AND ASSUMED TO HAVE BEEN DESTROYED.

HZ1348'REFERENCE MARK 4 WAS SET. A NEW DESCRIPTION FOLLOWS-

HZ1348'

HZ1348'THE STATION IS LOCATED AT EDWARDSVILLE, 76 FEET EAST OF THE SOUTHEAST

HZ1348'CORNER OF HITNERS GROCERY STORE, 72 FEET SOUTH OF THE CENTERLINE

HZ1348'OF ROAD OLD HIGHWAY 64, 70 FEET NORTH OF THE CENTERLINE OF ROAD OLD

HZ1348'HIGHWAY 62 AND 23 FEET EAST OF THE SOUTHEAST CORNER OF A LARGE

HZ1348'CONCRETE WELL COVER. THE MONUMENT IS 4 INCHES UNDERGROUND AND THE

HZ1348'DISK IS STAMPED EDWARD 2 1948.

HZ1348'

HZ1348'TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 64 AND

HZ1348'STATE HIGHWAYS 62 AND 64 AND 460, GO SOUTHEAST ON HIGHWAY 460 AND

HZ1348'62 FOR 0.3 MILE TO A ROAD LEFT. TURN LEFT AND GO EASTERLY ON THE

HZ1348'PAVED ROAD FOR 0.1 MILE TO THE STATION AT ROAD INTERSECTION.

HZ1348'

HZ1348'REFERENCE MARK 1 IS 44 FEET NORTHEAST OF THE CENTERLINE OF PAVED

HZ1348'ROAD OLD HIGHWAY 64 AND 2 FEET WEST OF A TELEPHONE

HZ1348'POLE. THE MONUMENT IS FLUSH AND THE DISK IS STAMPED EDWARD NO 1 1947.

HZ1348'

HZ1348'REFERENCE MARK 4 IS A STANDARD DISK STAMPED EDWARD 2 1948 NO 4 1973

HZ1348'SET IN A DRILL HOLE IN THE SOUTHWEST CORNER OF A 6 X 6 FOOT

HZ1348'SQUARE CONCRETE WELL COVER WHICH PROJECTS ABOUT 1 FOOT, 53 FEET EAST

HZ1348'OF THE SOUTHEAST CORNER OF THE STORE AND 14 FEET SOUTHEAST OF A

HZ1348'UTILITY POLE WITH A LIGHT.

HZ1348'

HZ1348'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN AT EDWARDSVILLE.

HZ1348'

HZ1348'HEIGHT OF LIGHT ABOVE STATION MARK 2 METERS.

HZ1348

HZ1348

STATION RECOVERY (1973)

HZ1348

HZ1348'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973

HZ1348'RECOVERED IN GOOD CONDITION.

HZ1348

HZ1348

STATION RECOVERY (1997)

HZ1348

HZ1348'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

HZ1348'THE STATION IS LOCATED IN EDWARDSVILLE, ON CORYDON PIKE ROAD ABOUT 5

HZ1348'MILES (8.0 KM) WEST OF NEW ALBANY. FOR ACCESS CONTACT JASON AT

HZ1348'812-945-1686, PRIVATE RESIDENCE, FORMERLY HITNERS GROCERY STORE. TO

HZ1348'REACH THE STATION FROM THE JUNCTION OF I-64, STATE ROAD 62 AND 64, GO

HZ1348'SOUTH ON STATE ROAD 62 FOR 0.3 MILES (0.5 KM) TO THE SECOND ROAD OR

HZ1348'TURN ON THE LEFT (EAST SIDE OF THE ROAD). TURN LEFT AND GO EASTERLY

HZ1348'ON CORYDON PIKE FOR APPROXIMATELY 0.1 MILES (0.2 KM) TO THE STATION,

HZ1348'ON THE SOUTH SIDE OF CORYDON PIKE. YOU WILL PASS QUARRY ROAD ON THE

HZ1348'LEFT (NORTH SIDE OF THE ROAD) FIRST, THEN THE STATION IS LOCATED IN A

HZ1348'YARD ON THE RIGHT (SOUTH SIDE). LOCATED AT EDWARDSVILLE, 63 FEET

HZ1348'(19.2 M) SOUTH OF THE CENTERLINE OF CORYDON PIKE, 73 FEET (22.3 M)

HZ1348'NORTH OF THE CENTERLINE OF A ROAD, 23 FEET (7.0 M) EAST OF THE

HZ1348'SOUTHEAST CORNER OF A LARGE CONCRETE WELL COVER RECESSED 10 CM BELOW

HZ1348'GROUND. VERIFIED NGS REMARKS FROM 1973 REGARDING REFERENCE MARKS 1

HZ1348'AND 4. REFERENCE MARK 1 IS 44 FEET (13.4 M) NORTHEAST OF THE

HZ1348'CENTERLINE OF PAVED ROAD (OLD HIGHWAY 64) AND 2 FEET (0.6 M) WEST OF A

HZ1348'TELEPHONE POLE. THE MONUMENT IS FLUSH WITH GROUND AND THE DISK IS

HZ1348'STAMPED EDWARD NO 1 1947. REFERENCE MARK 4 IS A STANDARD DISK STAMPED

HZ1348'EDWARD 2 1948 NO 4 1973, SET IN A DRILL HOLE IN THE SOUTHWEST CORNER

HZ1348'OF A 6 FT (1.8 M) X 6 FT (1.8 M) SQUARE CONCRETE WELL COVER WHICH

HZ1348'PROJECTS ABOUT 1 FOOT (0.3 M) ABOVE GROUND, 53 FEET (16.2 M) EAST OF

HZ1348'THE SOUTHEAST CORNER OF THE FORMER STORE (NOW RESIDENTIAL PROPERTY)

HZ1348'AND 14 FEET (4.3 M) SOUTHEAST OF A UTILITY POLE WITH A LIGHT. THERE

HZ1348'IS A WITNESS POST APPROXIMATELY 35 FEET (10.7 M) AWAY, BEARING 290

HZ1348'DEGREES.

HZ1348

HZ1348

STATION RECOVERY (2003)

HZ1348

HZ1348'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2003 (JMW)

HZ1348'RECOVERED AS DESCRIBED WITH THE FOLLOWING ADDITIONS.

HZ1348'

HZ1348'THE CONTACT IS NOW MARSHALL OR SYLVIA AT THE SAME PHONE NUMBER.

HZ1348'

HZ1348'TO REACH THE STATION FROM THE CENTER OF THE UNDERPASS AT THE JUNCTION

HZ1348'OF INTERSTATE HIGHWAY 64 AND STATE HIGHWAYS 62 AND WEST (EXIT 118),

HZ1348'GO SOUTHEAST ON HIGHWAY 62 FOR 0.3 MI TO THE SECOND ROAD OR TURN ON

HZ1348'THE LEFT (EAST SIDE OF THE ROAD). TURN LEFT AND GO EAST ON CORYDON

HZ1348'PIKE FOR 0.1 MI TO THE STATION ON THE RIGHT (SOUTH).

HZ1348'

HZ1348'THE STATION IS 38.5 FT EAST-SOUTHEAST OF A METAL WITNESS SIGN ATTACHED

HZ1348'TO A SHORT UTILITY POLE.

HZ1348

HZ1348

STATION RECOVERY (2003)

HZ1348

HZ1348'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 2003 (JRM)

HZ1348'RECOVERED AS DESCRIBED

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

HZ1686 *****

4/28/2011

DATASHEETS

HZ1686 DESIGNATION - M 60
HZ1686 PID - HZ1686
HZ1686 STATE/COUNTY- IN/JACKSON
HZ1686 USGS QUAD - CROTHERSVILLE (1993)

HZ1686
HZ1686
HZ1686

*CURRENT SURVEY CONTROL

HZ1686* NAD 83(1986)- 38 49 22. (N) 085 51 14. (W) SCALED
HZ1686* NAVD 88 - 162.673 (meters) 533.70 (feet) ADJUSTED
HZ1686
HZ1686 GEOID HEIGHT- -33.84 (meters) GEOID09
HZ1686 DYNAMIC HT - 162.568 (meters) 533.36 (feet) COMP
HZ1686 MODELED GRAV- 979,983.6 (mgal) NAVD 88

HZ1686
HZ1686
HZ1686

VERT ORDER - SECOND CLASS 0

HZ1686.The horizontal coordinates were scaled from a topographic map and have
HZ1686.an estimated accuracy of +/- 6 seconds.

HZ1686

HZ1686.The orthometric height was determined by differential leveling and
HZ1686.adjusted in June 1991.

HZ1686

HZ1686.The geoid height was determined by GEOID09.

HZ1686

HZ1686.The dynamic height is computed by dividing the NAVD 88
HZ1686.geopotential number by the normal gravity value computed on the
HZ1686.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
HZ1686.degrees latitude (g = 980.6199 gals.).

HZ1686

HZ1686.The modeled gravity was interpolated from observed gravity values.

HZ1686

HZ1686;
HZ1686;SPC IN E - North East Units Estimated Accuracy
396,840. 83,740. MT (+/- 180 meters Scaled)

HZ1686

SUPERSEDED SURVEY CONTROL

HZ1686

HZ1686 NGVD 29 (??/??/92) 162.800 (m) 534.12 (f) ADJ UNCH 2 0

HZ1686

HZ1686.Superseded values are not recommended for survey control.

HZ1686.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

HZ1686.See file dsdata.txt to determine how the superseded data were derived.

HZ1686

HZ1686_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEH994977(NAD 83)

HZ1686_MARKER: DB = BENCH MARK DISK

HZ1686_SETTING: 36 = SET IN A MASSIVE STRUCTURE

HZ1686_SP_SET: ABUTMENT

HZ1686_STAMPING: M 60 1934

HZ1686_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

HZ1686_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

HZ1686+SATELLITE: SATELLITE OBSERVATIONS - November 11, 2006

HZ1686

HZ1686 HISTORY - Date Condition Report By
HZ1686 HISTORY - 1934 MONUMENTED CGS
HZ1686 HISTORY - 20061111 GOOD INDIV

HZ1686

STATION DESCRIPTION

HZ1686

HZ1686

HZ1686'DESCRIBED BY COAST AND GEODETIC SURVEY 1934
 HZ1686'1.9 MI N FROM CROTHERSVILLE.
 HZ1686'1.9 MILES NORTH ALONG THE PENNSYLVANIA RAILROAD FROM THE
 HZ1686'STATION AT CROTHERSVILLE, JACKSON COUNTY, 0.4 MILE NORTH OF
 HZ1686'MILEPOST 69, 23 RAILS NORTH OF AN ELECTRIC CAR STATION RETREAT,
 HZ1686'AT BRIDGE NO. 68/60, IN THE TOP OF THE WEST END OF THE NORTH
 HZ1686'ABUTMENT, 5.4 FEET WEST OF THE WEST RAIL, 1.4 FEET SOUTH OF THE
 HZ1686'NORTH WING WALL, AND 4.2 FEET LOWER THAN THE TRACK. A STANDARD
 HZ1686'DISK, STAMPED M 60 1934.

HZ1686
 HZ1686
 HZ1686

STATION RECOVERY (2006)

HZ1686'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2006 (DGK)
 HZ1686'FROM US 31, TAKE CR 400S (RETREAT ROAD) WEST APPROXIMATELY 0.9 MILES
 HZ1686'TO RAILROAD CROSSING. MARK IS APPROXIMATELY 600 FEET NORTH OF
 HZ1686'CROSSING.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

HZ1880 *****

HZ1880 CBN - This is a Cooperative Base Network Control Station.
 HZ1880 DESIGNATION - D 92
 HZ1880 PID - HZ1880
 HZ1880 STATE/COUNTY- IN/JACKSON
 HZ1880 USGS QUAD - CHESTNUT RIDGE (1983)

HZ1880
 HZ1880
 HZ1880

*CURRENT SURVEY CONTROL

HZ1880*	NAD 83(2007)-	38 58 15.30327(N)	085 50 04.61702(W)	ADJUSTED
HZ1880*	NAVD 88	- 178.914 (meters)	586.99 (feet)	ADJUSTED

HZ1880

HZ1880	EPOCH DATE	-	2002.00	
HZ1880	X	-	360,670.214 (meters)	COMP
HZ1880	Y	-	-4,952,355.205 (meters)	COMP
HZ1880	Z	-	3,989,898.640 (meters)	COMP
HZ1880	LAPLACE CORR-		-1.59 (seconds)	DEFLEC09
HZ1880	ELLIP HEIGHT-		145.041 (meters)	(02/10/07) ADJUSTED
HZ1880	GEOID HEIGHT-		-33.87 (meters)	GEOID09
HZ1880	DYNAMIC HT	-	178.802 (meters)	586.62 (feet) COMP

HZ1880

HZ1880 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

HZ1880	Type	PID	Designation	North	East	Ellip
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HZ1880

HZ1880	NETWORK	HZ1880 D 92	1.04	0.69	2.61
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HZ1880

HZ1880	MODELED GRAV-	979,996.1 (mgal)	NAVD 88
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HZ1880

HZ1880	VERT ORDER	-	FIRST	CLASS II
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HZ1880

HZ1880.The horizontal coordinates were established by GPS observations
 HZ1880.and adjusted by the National Geodetic Survey in February 2007.

HZ1880

HZ1880.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

HZ1880.See National Readjustment for more information.

HZ1880.The horizontal coordinates are valid at the epoch date displayed above.

HZ1880.The epoch date for horizontal control is a decimal equivalence

HZ1880.of Year/Month/Day.

HZ1880

HZ1880.The orthometric height was determined by differential leveling and

HZ1880.adjusted in June 1991.

HZ1880

HZ1880.The X, Y, and Z were computed from the position and the ellipsoidal ht.

HZ1880

HZ1880.The Laplace correction was computed from DEFLEC09 derived deflections.

HZ1880

HZ1880.The ellipsoidal height was determined by GPS observations

HZ1880.and is referenced to NAD 83.

HZ1880

HZ1880.The geoid height was determined by GEOID09.

HZ1880

HZ1880.The dynamic height is computed by dividing the NAVD 88

HZ1880.geopotential number by the normal gravity value computed on the

HZ1880.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

HZ1880.degrees latitude (g = 980.6199 gals.).

HZ1880

HZ1880.The modeled gravity was interpolated from observed gravity values.

HZ1880

HZ1880; North East Units Scale Factor Converg.

HZ1880;SPC IN E - 413,281.224 85,445.694 MT 0.99996927 -0 06 20.3

HZ1880;SPC IN E - 1,355,906.82 280,333.08 sFT 0.99996927 -0 06 20.3

HZ1880;UTM 16 - 4,314,195.055 600,955.426 MT 0.99972550 +0 43 58.8

HZ1880

HZ1880! - Elev Factor x Scale Factor = Combined Factor

HZ1880!SPC IN E - 0.99997724 x 0.99996927 = 0.99994651

HZ1880!UTM 16 - 0.99997724 x 0.99972550 = 0.99970275

HZ1880

HZ1880

SUPERSEDED SURVEY CONTROL

HZ1880

HZ1880 NAD 83(1997)- 38 58 15.30354(N) 085 50 04.61714(W) AD() B

HZ1880 ELLIP H (04/10/98) 145.081 (m) GP() 4 1

HZ1880 NAD 83(1993)- 38 58 15.30782(N) 085 50 04.62087(W) AD() 3

HZ1880 NAD 83(1986)- 38 58 15.30810(N) 085 50 04.62200(W) AD() 3

HZ1880 NAD 27 - 38 58 15.11746(N) 085 50 04.71814(W) AD() 3

HZ1880 NAVD 88 (04/10/98) 178.91 (m) 587.0 (f) LEVELING 3

HZ1880 NGVD 29 (??/??/92) 179.035 (m) 587.38 (f) ADJ UNCH 1 2

HZ1880

HZ1880.Superseded values are not recommended for survey control.

HZ1880.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

HZ1880.See file dsdata.txt to determine how the superseded data were derived.

HZ1880

HZ1880_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SFJ0095514195(NAD 83)

HZ1880_MARKER: DB = BENCH MARK DISK

HZ1880_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE

HZ1880_SP_SET: BRIDGE ABUTMENT

HZ1880_STAMPING: D 92 1938

HZ1880_MARK LOGO: CGS

HZ1880_MAGNETIC: N = NO MAGNETIC MATERIAL

HZ1880_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

HZ1880_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

HZ1880+SATELLITE: SATELLITE OBSERVATIONS - August 25, 1997

HZ1880

HZ1880 HISTORY - Date Condition Report By

HZ1880 HISTORY - 1938 MONUMENTED CGS

HZ1880 HISTORY - 19880720 GOOD NGS

HZ1880 HISTORY - 19970825 GOOD SEC

HZ1880

STATION DESCRIPTION

HZ1880

HZ1880

HZ1880'DESCRIBED BY NATIONAL GEODETIC SURVEY 1988

HZ1880'THE STATION IS LOCATED ABOUT 19.3 KM (12.00 MI) WEST OF NORTH VERNON,
 HZ1880'8.0 KM (4.95 MI) NORTHEAST OF SEYMOUR, 0.8 KM (0.50 MI) EAST FROM
 HZ1880'INTERSTATE HIGHWAY 65 AND ON RAILROAD RIGHT-OF-WAY.

HZ1880'OWNERSHIP--UNABLE TO LOCATE OWNERSHIP FOR THIS STATION.

HZ1880'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 50 AND 31,
 HZ1880'ABOUT 4.8 KM (3.00 MI) EAST OF SEYMOUR, GO NORTH ON U.S. HIGHWAY 31
 HZ1880'FOR 0.8 KM (0.50 MI) TO A RAILROAD OVERPASS AND THE MARK ON TOP OF
 HZ1880'THE SOUTHEAST CORNER OF OVERPASS.

HZ1880'THE STATION IS A STANDARD CGS BENCH MARK DISK STAMPED---D 92 1938---,
 HZ1880'SET IN THE SOUTHEAST CORNER OF CONCRETE HEADWALL ABOUT 5 INCHES LOWER
 HZ1880'THAN THE TRACKS. LOCATED 1.2 M (3.9 FT) SOUTH FROM SOUTH RAIL OF
 HZ1880'TRACKS AND ABOUT 7.6 M (24.9 FT) HIGHER THAN U.S. HIGHWAY 31.

HZ1880'GPS SURVEY, FAA AIRPORTS, INDIANA.

HZ1880'DESCRIBED BY D.A. BOWLING.

HZ1880

STATION RECOVERY (1997)

HZ1880

HZ1880

HZ1880'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

HZ1880'RECOVERED AS DESCRIBED.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JA0009 *****

JA0009 DESIGNATION - E 10

JA0009 PID - JA0009

JA0009 STATE/COUNTY- IN/JACKSON

JA0009 USGS QUAD - VALLONIA (1994)

JA0009

JA0009 *CURRENT SURVEY CONTROL

JA0009

JA0009* NAD 83(1986)- 38 51 12. (N) 086 05 50. (W) SCALED

JA0009* NAVD 88 - 163.669 (meters) 536.97 (feet) ADJUSTED

JA0009

JA0009 GEOID HEIGHT- -33.55 (meters) GEOID09

JA0009 DYNAMIC HT - 163.564 (meters) 536.63 (feet) COMP

JA0009 MODELED GRAV- 979,983.2 (mgal) NAVD 88

JA0009

JA0009 VERT ORDER - FIRST CLASS II

JA0009

JA0009.The horizontal coordinates were scaled from a topographic map and have
 JA0009.an estimated accuracy of +/- 6 seconds.

JA0009

JA0009.The orthometric height was determined by differential leveling and
 JA0009.adjusted in June 1991.

JA0009

JA0009.The geoid height was determined by GEOID09.

JA0009

JA0009.The dynamic height is computed by dividing the NAVD 88

JA0009.geopotential number by the normal gravity value computed on the

JA0009.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

JA0009.degrees latitude (g = 980.6199 gals.).

JA0009

JA0009.The modeled gravity was interpolated from observed gravity values.

JA0009

JA0009; North East Units Estimated Accuracy

JA0009;SPC IN E - 400,300. 62,630. MT (+/- 180 meters Scaled)

4/28/2011

DATASHEETS

JA0009

JA0009

SUPERSEDED SURVEY CONTROL

JA0009

JA0009 NGVD 29 (??/??/92) 163.792 (m) 537.37 (f) ADJ UNCH 1 2

JA0009

JA0009.Superseded values are not recommended for survey control.

JA0009.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JA0009.See file dsdata.txt to determine how the superseded data were derived.

JA0009

JA0009_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ783008(NAD 83)

JA0009_MARKER: DB = BENCH MARK DISK

JA0009_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JA0009_SP_SET: SET IN TOP OF CONCRETE MONUMENT

JA0009_STAMPING: 537.374 E 10 1930

JA0009_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JA0009+STABILITY: SURFACE MOTION

JA0009_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JA0009+SATELLITE: SATELLITE OBSERVATIONS - March 16, 2010

JA0009

JA0009 HISTORY - Date Condition Report By

JA0009 HISTORY - 1930 MONUMENTED CGS

JA0009 HISTORY - 1967 GOOD NGS

JA0009 HISTORY - 20100316 GOOD AEROME

JA0009

JA0009 STATION DESCRIPTION

JA0009

JA0009'DESCRIBED BY NATIONAL GEODETIC SURVEY 1967

JA0009'AT VALLONIA.

JA0009'AT VALLONIA, JACKSON COUNTY, ON THE BALTIMORE AND OHIO RAILROAD,

JA0009'94 FEET WEST OF THE STATION, 77 FEET EAST OF MILEPOST C 101,

JA0009'AND 19.6 FEET SOUTH OF THE SOUTH RAIL OF THE MAIN-LINE TRACK. A

JA0009'STANDARD DISK, STAMPED 537.374 E 10 1930 AND SET IN THE TOP OF

JA0009'A CONCRETE POST PROJECTING 8 INCHES ABOVE GROUND.

JA0009

JA0009 STATION RECOVERY (2010)

JA0009

JA0009'RECOVERY NOTE BY AERO METRIC INC 2010

JA0009'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JA0132 *****

JA0132 CBN - This is a Cooperative Base Network Control Station.

JA0132 DESIGNATION - V 281

JA0132 PID - JA0132

JA0132 STATE/COUNTY- IN/LAWRENCE

JA0132 USGS QUAD - BEDFORD EAST (1978)

JA0132

JA0132 *CURRENT SURVEY CONTROL

JA0132

JA0132* NAD 83(2007)- 38 50 18.09578(N) 086 26 07.65360(W) ADJUSTED

JA0132* NAVD 88 - 221.586 (meters) 726.99 (feet) ADJUSTED

JA0132

JA0132 EPOCH DATE - 2002.00

JA0132 X - 309,294.196 (meters) COMP

JA0132 Y - -4,965,123.067 (meters) COMP

JA0132 Z - 3,978,474.012 (meters) COMP

JA0132 LAPLACE CORR- -0.82 (seconds) DEFLEC09

JA0132 ELLIP HEIGHT- 188.544 (meters) (02/10/07) ADJUSTED

4/28/2011

DATASHEETS

JA0132 GEOID HEIGHT- -33.05 (meters) GEOID09
JA0132 DYNAMIC HT - 221.448 (meters) 726.53 (feet) COMP

JA0132 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

JA0132 Type PID Designation North East Ellip

JA0132 -----

JA0132 NETWORK JA0132 V 281 0.82 0.59 1.98

JA0132 -----

JA0132 MODELED GRAV- 980,001.5 (mgal) NAVD 88

JA0132

JA0132 VERT ORDER - FIRST CLASS II

JA0132

JA0132.This mark is at Virgil I Grisson Mun Airport (BFR)

JA0132

JA0132.The horizontal coordinates were established by GPS observations

JA0132.and adjusted by the National Geodetic Survey in February 2007.

JA0132

JA0132.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

JA0132.See National Readjustment for more information.

JA0132.The horizontal coordinates are valid at the epoch date displayed above.

JA0132.The epoch date for horizontal control is a decimal equivalence

JA0132.of Year/Month/Day.

JA0132

JA0132.The orthometric height was determined by differential leveling and

JA0132.adjusted in June 1991.

JA0132

JA0132.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JA0132

JA0132.The Laplace correction was computed from DEFLEC09 derived deflections.

JA0132

JA0132.The ellipsoidal height was determined by GPS observations

JA0132.and is referenced to NAD 83.

JA0132

JA0132.The geoid height was determined by GEOID09.

JA0132

JA0132.The dynamic height is computed by dividing the NAVD 88

JA0132.geopotential number by the normal gravity value computed on the

JA0132.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

JA0132.degrees latitude (g = 980.6199 gals.).

JA0132

JA0132.The modeled gravity was interpolated from observed gravity values.

JA0132

JA0132; North East Units Scale Factor Converg.

JA0132;SPC IN W - 398,752.032 956,248.849 MT 1.00000561 +0 24 22.7

JA0132;SPC IN W - 1,308,238.96 3,137,293.10 sFT 1.00000561 +0 24 22.7

JA0132;UTM 16 - 4,298,990.839 548,995.767 MT 0.99962956 +0 21 14.6

JA0132

JA0132! - Elev Factor x Scale Factor = Combined Factor

JA0132!SPC IN W - 0.99997042 x 1.00000561 = 0.99997603

JA0132!UTM 16 - 0.99997042 x 0.99962956 = 0.99959999

JA0132

JA0132 SUPERSEDED SURVEY CONTROL

JA0132

JA0132 NAD 83(1997)- 38 50 18.09590(N) 086 26 07.65376(W) AD() B

JA0132 ELLIP H (04/10/98) 188.552 (m) GP() 4 1

JA0132 NAVD 88 (04/10/98) 221.59 (m) 727.0 (f) LEVELING 3

JA0132 NGVD 29 (??/??/92) 221.702 (m) 727.37 (f) ADJ UNCH 1 2

JA0132

JA0132.Superseded values are not recommended for survey control.

JA0132.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JA0132.See file dsdata.txt to determine how the superseded data were derived.

JA0132

JA0132_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEH4899598990(NAD 83)

JA0132_MARKER: DB = BENCH MARK DISK

JA0132_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JA0132_SP_SET: CONCRETE POST

JA0132_STAMPING: V 281 1949

JA0132_MARK LOGO: CGS

JA0132_MAGNETIC: N = NO MAGNETIC MATERIAL

JA0132_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JA0132+STABILITY: SURFACE MOTION

JA0132_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JA0132+SATELLITE: SATELLITE OBSERVATIONS - November 12, 2003

JA0132

HISTORY	- Date	Condition	Report By
HISTORY	- 1949	MONUMENTED	CGS
HISTORY	- 1967	GOOD	NGS
HISTORY	- 19860730	GOOD	NGS
HISTORY	- 19970825	GOOD	SEC
HISTORY	- 20031112	GOOD	SEC

JA0132

JA0132

STATION DESCRIPTION

JA0132

JA0132'DESCRIBED BY COAST AND GEODETIC SURVEY 1949

JA0132'3.5 MI SE FROM BEDFORD.

JA0132'ABOUT 1.0 MILE EAST ALONG HIGHWAY 50 FROM THE COURT HOUSE AT
 JA0132'BEDFORD, THENCE ABOUT 2.5 MILES SOUTHEAST ALONG A BLACK TOP ROAD,
 JA0132'AT THE BEDFORD MUNICIPAL AIRPORT, SOUTHWEST OF THE CENTER OF THE
 JA0132'JUNCTION OF THE BLACK TOP ROAD AND ENTRANCE ROAD TO THE AIRPORT,
 JA0132'147 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A BLOCK HANGAR, 75
 JA0132'FEET WEST OF THE CENTER LINE OF THE BLACK TOP ROAD, 27 FEET
 JA0132'SOUTH OF THE CENTER LINE OF THE ENTRANCE DRIVE, 2 FEET WEST OF
 JA0132'A WHITE WOODEN WITNESS POST, ABOUT 1 FOOT ABOVE THE LEVEL OF THE
 JA0132'ENTRANCE DRIVE AND SET IN THE TOP OF A CONCRETE POST PROJECTING
 JA0132'ABOUT 4 INCHES.

JA0132

JA0132

STATION RECOVERY (1967)

JA0132

JA0132'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1967

JA0132'RECOVERED IN GOOD CONDITION.

JA0132

JA0132

STATION RECOVERY (1986)

JA0132

JA0132'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1986

JA0132'RECOVERED IN GOOD CONDITION.

JA0132

JA0132

STATION RECOVERY (1997)

JA0132

JA0132'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

JA0132'APPROXIMATELY 3.1 MILES (5.0 KM) SOUTHEAST OF THE BEDFORD, AT THE
 JA0132'VIRGIL GRISSOM MUNICIPAL AIRPORT. FROM THE COURTHOUSE IN BEDFORD, GO
 JA0132'EAST ON U.S. HIGHWAY 50 FOR 1.1 MILES (1.8 KM) TO A COUNTY ROAD AND
 JA0132'ENTRANCE TO OTIS PARK, TURN RIGHT, SOUTHEAST ON COUNTY ROAD PAST THE
 JA0132'PARK AND GO 2.35 MILES (3.78 KM) FROM HIGHWAY 50 IN A SOUTHEASTERLY

JA0132'DIRECTION TO THE TOP OF A HILL AND THE AIRPORT ON THE RIGHT. THE
 JA0132'MONUMENT IS 5.75 METERS (18.86 FT) SOUTH OF THE SOUTH EDGE OF THE
 JA0132'AIRPORT ENTRANCE DRIVE, 8.30 METERS (27.23 FT) WEST OF THE WEST EDGE
 JA0132'OF THE PRIVATE DRIVE TO THE HANGERS, 8.03 METERS (26.35 FT) NORTH BY
 JA0132'NORTHWEST OF THE NORTHWEST CORNER OF THE FOUNDATION OF THE GRISSOM
 JA0132'MUNICIPAL BEDFORD AIRPORT SIGN WITH FLAG POLE, 23.94 METERS (78.54 FT)
 JA0132'EAST OF A LIGHT POLE. THE MONUMENT IS ON THE AIRPORT PROPERTY.
 JA0132'CONTACT IS DOYLE CUMMINGS, PHONE 812-275-0491. THE STATION IS A 30 CM
 JA0132'ROUND CONCRETE POST PROJECTING 9 CM ABOVE GROUND.

JA0132
 JA0132
 JA0132

STATION RECOVERY (2003)

JA0132'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 2003
 JA0132'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JA0160 *****

JA0160 DESIGNATION - X 279
 JA0160 PID - JA0160
 JA0160 STATE/COUNTY- IN/ORANGE
 JA0160 USGS QUAD - MITCHELL (1980)

JA0160

*CURRENT SURVEY CONTROL

JA0160

JA0160*	NAD 83(1986)-	38 41 00.	(N)	086 27 05.	(W)	SCALED
JA0160*	NAVD 88	- 198.170	(meters)	650.16	(feet)	ADJUSTED

JA0160

JA0160	GEOID HEIGHT-	-33.17	(meters)			GEOID09
JA0160	DYNAMIC HT -	198.039	(meters)	649.73	(feet)	COMP
JA0160	MODELED GRAV-	979,964.6	(mgal)			NAVD 88

JA0160

JA0160 VERT ORDER - FIRST CLASS II

JA0160

JA0160.The horizontal coordinates were scaled from a topographic map and have
 JA0160.an estimated accuracy of +/- 6 seconds.

JA0160

JA0160.The orthometric height was determined by differential leveling and
 JA0160.adjusted in June 1991.

JA0160

JA0160.The geoid height was determined by GEOID09.

JA0160

JA0160.The dynamic height is computed by dividing the NAVD 88
 JA0160.geopotential number by the normal gravity value computed on the
 JA0160.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 JA0160.degrees latitude (g = 980.6199 gals.).

JA0160

JA0160.The modeled gravity was interpolated from observed gravity values.

JA0160

JA0160;		North	East	Units	Estimated Accuracy
JA0160;SPC IN W	-	381,530.	954,990.	MT	(+/- 180 meters Scaled)

JA0160

SUPERSEDED SURVEY CONTROL

JA0160

JA0160	NGVD 29 (??/??/92)	198.285	(m)	650.54	(f)	ADJ UNCH	1 2
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JA0160

JA0160.Superseded values are not recommended for survey control.
 JA0160.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 JA0160.See file dsdata.txt to determine how the superseded data were derived.

JA0160

JA0160_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEH477817 (NAD 83)

JA0160_MARKER: DB = BENCH MARK DISK

JA0160_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JA0160_SP_SET: SET IN TOP OF CONCRETE MONUMENT

JA0160_STAMPING: X 279 1949

JA0160_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JA0160+STABILITY: SURFACE MOTION

JA0160

JA0160	HISTORY	- Date	Condition	Report By
JA0160	HISTORY	- 1949	MONUMENTED	CGS
JA0160	HISTORY	- 1965	GOOD	NGS
JA0160	HISTORY	- 1967	GOOD	NGS
JA0160	HISTORY	- 1983	GOOD	USE

JA0160

JA0160

STATION DESCRIPTION

JA0160

JA0160'DESCRIBED BY NATIONAL GEODETIC SURVEY 1965

JA0160'1.5 MI N FROM ORLEANS.

JA0160'ABOUT 1.5 MILES NORTH ALONG THE CHICAGO, INDIANAPOLIS AND

JA0160'LOUISVILLE RAILWAY FROM THE STATION AT ORLEANS, OR ABOUT 3.65

JA0160'MILES SOUTH ALONG THE CHICAGO, INDIANAPOLIS AND LOUISVILLE

JA0160'RAILWAY FROM THE STATION AT MITCHELL, IN SECTION 19, T 3 N,

JA0160'R 1 E, AT A CROSSING OF THE RAILROAD AND A PRIVATE ROAD, ABOUT

JA0160'0.25 MILE SOUTH OF THE LAWRENCE COUNTY LINE, 25 FEET EAST OF THE

JA0160'EAST RAIL, 17 FEET SOUTH OF THE CENTER LINE OF THE PRIVATE ROAD,

JA0160'1.4 FEET SOUTHWEST OF A CONCRETE FENCE CORNER POST, 1.4 FEET

JA0160'SOUTH OF A METAL WITNESS POST, ABOUT 4 FEET BELOW THE LEVEL OF

JA0160'THE RAILS, AND SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE

JA0160'GROUND.

JA0160

JA0160

STATION RECOVERY (1967)

JA0160

JA0160'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1967

JA0160'RECOVERED IN GOOD CONDITION.

JA0160

JA0160

STATION RECOVERY (1983)

JA0160

JA0160'RECOVERY NOTE BY US ENGINEERS 1983

JA0160'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JA0188 *****

JA0188 CBN - This is a Cooperative Base Network Control Station.

JA0188 DESIGNATION - LOST

JA0188 PID - JA0188

JA0188 STATE/COUNTY- IN/WASHINGTON

JA0188 USGS QUAD - BECKS MILL (1994)

JA0188

JA0188

*CURRENT SURVEY CONTROL

JA0188

JA0188* NAD 83(2007)- 38 37 27.01086(N) 086 13 57.82009(W) ADJUSTED

JA0188* NAVD 88 - 256.457 (meters) 841.39 (feet) ADJUSTED

JA0188

JA0188 EPOCH DATE - 2002.00

JA0188 X - 327,839.742 (meters) COMP

JA0188 Y - -4,978,869.547 (meters) COMP

JA0188 Z - 3,959,946.594 (meters) COMP

4/28/2011

DATASHEETS

JA0188 LAPLACE CORR- 0.09 (seconds) DEFLECO9
 JA0188 ELLIP HEIGHT- 223.088 (meters) (02/10/07) ADJUSTED
 JA0188 GEOID HEIGHT- -33.36 (meters) GEOID09
 JA0188 DYNAMIC HT - 256.286 (meters) 840.83 (feet) COMP

JA0188 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

Type	PID	Designation	North	East	Ellip
NETWORK	JA0188	LOST	0.84	0.57	2.02

JA0188:UTM 16 - LOST AZ MK 356 05 12.3

JA0188

PID	Reference Object	Distance	Geod. Az
			dddmmss.s
JA0189	LOST RM 1	31.881 METERS	21409
JA0190	LOST RM 2	20.498 METERS	29835
JA0187	LOST AZ MK		3563356.5

JA0188

JA0188

SUPERSEDED SURVEY CONTROL

JA0188

JA0188	NAD 83(1997)-	38 37 27.01105(N)	086 13 57.82027(W)	AD()	B
JA0188	ELLIP H (04/10/98)	223.100 (m)		GP()	4 1
JA0188	NAD 83(1993)-	38 37 27.01405(N)	086 13 57.82411(W)	AD()	2
JA0188	NAD 83(1986)-	38 37 27.01505(N)	086 13 57.82608(W)	AD()	2
JA0188	NAD 27 -	38 37 26.81500(N)	086 13 57.88700(W)	AD()	2
JA0188	NAVD 88 (04/10/98)	256.46 (m)	841.4 (f)	LEVELING	3
JA0188	NGVD 29 (??/??/92)	256.566 (m)	841.75 (f)	ADJ UNCH	1 2

JA0188

JA0188.Superseded values are not recommended for survey control.

JA0188.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JA0188.See file dsdata.txt to determine how the superseded data were derived.

JA0188

JA0188_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEH6678975350(NAD 83)

JA0188_MARKER: DS = TRIANGULATION STATION DISK

JA0188_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JA0188_SP_SET: SET IN TOP OF CONCRETE MONUMENT

JA0188_STAMPING: LOST 1946

JA0188_MARK LOGO: CGS

JA0188_MAGNETIC: N = NO MAGNETIC MATERIAL

JA0188_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JA0188+STABILITY: SURFACE MOTION

JA0188_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JA0188+SATELLITE: SATELLITE OBSERVATIONS - October 14, 2006

JA0188

HISTORY	Date	Condition	Report By
HISTORY	- 1946	MONUMENTED	CGS
HISTORY	- 1949	GOOD	NGS
HISTORY	- 1967	GOOD	CGS
HISTORY	- 19970603	GOOD	NGS
HISTORY	- 20061014	GOOD	LNDMRK

JA0188

JA0188

JA0188

JA0188

JA0188

JA0188

JA0188

STATION DESCRIPTION

JA0188

JA0188'DESCRIBED BY COAST AND GEODETIC SURVEY 1946 (WJC)

JA0188'THIS STATION IS AT A CROSSROAD INTERSECTION ON STATE HIGHWAY 60,

JA0188'ABOUT 7 MILES EAST-NORTHEAST FROM SALEM, AND ABOUT 2-1/2 MILES

JA0188'SOUTHEAST FROM CAMPBELLSBURG. IT IS 113 FEET EAST-SOUTHEAST OF THE

JA0188'CENTERLINE OF THE INTERSECTION AND 39.8 FEET NORTH OF THE

JA0188'NORTHWEST CORNER OF THE RED BARN, 19.4 FEET SOUTH OF A WHITE WITNESS

JA0188'POST. THE MARK IS FLUSH WITH THE GROUND AND THE DISK IS STAMPED

JA0188'LOST 1946.

JA0188'

JA0188'REFERENCE MARK NO. 1 IS 104.60 FEET SOUTHWEST OF THE STATION, 3 FEET

JA0188'NORTH OF THE NORTHWEST CORNER OF A CATTLE SHED. THE MARK IS FLUSH

JA0188'WITH THE GROUND AND THE DISK IS STAMPED LOST NO 1 1946.

JA0188'

JA0188'REFERENCE MARK NO. 2 IS 67.25 FEET NORTHWEST OF THE STATION, 46 FEET
 JA0188'SOUTHEAST OF THE CENTERLINE OF THE CROSSROADS AND 2.5 FEET EAST
 JA0188'OF A 2-FOOT CONCRETE FENCE CORNER POST. THE MARK IS FLUSH WITH THE
 JA0188'GROUND AND THE DISK IS STAMPED LOST NO 2 1946.

JA0188'

JA0188'THE AZIMUTH IS 0.35 MILE NORTH OF THE STATION, 16 FEET WEST OF THE
 JA0188'CENTERLINE OF THE ROAD AND 2.4 FEET SOUTH OF A TELEPHONE POLE
 JA0188'NO 460-866, AND 1.8 FEET NORTH OF A WHITE WITNESS POST. THE MARK
 JA0188'PROJECTS 6 INCHES AND THE DISK IS STAMPED LOST 1946.

JA0188'

JA0188'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 56, 60 AND
 JA0188'135 IN SALEM, GO WEST ON STATE HIGHWAY 56 FOR 1.45 MILE TO
 JA0188'JUNCTION WITH 60, TURN RIGHT ON HIGHWAY 60 AND GO 6.1 MILES TO A
 JA0188'CROSSROAD WITH A BIG RED BARN IN THE SOUTHEAST ANGLE AND THE
 JA0188'STATION IN THE BARN YARD.

JA0188'

JA0188'HEIGHT OF LIGHT ABOVE STATION MARK 30 METERS.

JA0188

JA0188

STATION RECOVERY (1949)

JA0188

JA0188'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1949

JA0188'2.7 MI S FROM CAMPBELLSBURG.

JA0188'ABOUT 1.65 MILES SOUTHEAST ALONG THE CHICAGO, INDIANAPOLIS AND
 JA0188'LOUISVILLE RAILWAY FROM THE STATION AT CAMPBELLSBURG, THENCE
 JA0188'ABOUT 1.05 MILES SOUTH ALONG A GRAVEL ROAD, ABOUT 1.0 MILE WEST
 JA0188'OF SMEDLEY CHURCH OF CHRIST, 105 FEET NORTHEAST OF RM NO 1, 111
 JA0188'FEET SOUTHEAST OF THE CENTER LINES OF THE CROSS ROADS, 65 FEET
 JA0188'SOUTHEAST OF RM NO 2, 70 FEET EAST OF A WELL PUMP, 41 FEET
 JA0188'NORTHEAST OF THE NORTHWEST CORNER OF A RED BARN, 36 FEET SOUTH
 JA0188'OF THE CENTER LINE OF STATE HIGHWAY 60, 20 FEET SOUTH OF A FENCE
 JA0188'LINE, 19.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, ABOUT 4
 JA0188'FEET ABOVE THE LEVEL OF THE HIGHWAY AND SET IN THE TOP OF A
 JA0188'CONCRETE POST FLUSH WITH THE GROUND.

JA0188

JA0188

STATION RECOVERY (1967)

JA0188

JA0188'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1967 (EBB)

JA0188'THE STATION MARK, REFERENCE MARKS AND AZIMUTH MARK WERE RECOVERED AND
 JA0188'FOUND IN GOOD CONDITION AT THIS TIME. THE PREVIOUS DESCRIPTION
 JA0188'IS GOOD WITH THE BELOW CHANGES AND A NEW TO REACH.

JA0188'

JA0188'REFERENCE MARK 1 IS 36 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF
 JA0188'THE BARN, 13 FEET EAST OF A WIRE FENCE AND THE MONUMENT NOW PROJECTS
 JA0188'4 INCHES.

JA0188'

JA0188'REFERENCE MARK 2 IS NOW 1 FOOT NORTHWEST OF A METAL WITNESS POST.

JA0188'

JA0188'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 56 AND 60
 JA0188'AT THE WEST EDGE OF SALEM, GO WESTERLY ON STATE HIGHWAY 60 FOR 6.05
 JA0188'MILES TO A SIDE ROAD LEFT. TURN LEFT ON THE PAVED ROAD (WEST
 JA0188'WASHINGTON SCHOOL ROAD) AND GO SOUTH FOR 0.65 MILE TO THE AZIMUTH
 JA0188'MARK ON THE RIGHT. CONTINUE SOUTH ON THE PAVED ROAD FOR 0.35
 JA0188'MILE TO A PAVED CROSSROAD INTERSECTION AND THE STATION IN THE
 JA0188'SOUTHEAST ANGLE.

JA0188'

JA0188'THE AZIMUTH MARK IS 1 FOOT EAST OF A METAL WITNESS POST.

JA0188'

JA0188' AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--7 MILES

JA0188' EAST-NORTHEAST OF SALEM.

JA0188

JA0188

STATION RECOVERY (1997)

JA0188

JA0188' RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (CSM)

JA0188' THE STATION IS LOCATED ABOUT 10 KM (6.20 MI) WEST-NORTHWEST OF SALEM,

JA0188' IN WEEDS BETWEEN A SMALL WHITE BARN AND A PAVED ROAD, AND IN THE

JA0188' SOUTHEAST QUADRANT OF THE JUNCTION OF TWO PAVED ROADS.

JA0188' OWNERSHIP--BRIAN ROSENBAUM, 7883 WEST LOST RIVER ROAD, SALEM IN 47167,

JA0188' PHONE 812-755-5023. TO REACH FROM THE JUNCTION OF STATE HIGHWAYS 56

JA0188' AND 60 NEAR THE WEST EDGE OF SALEM, GO NORTHWEST ON HIGHWAY 60 FOR

JA0188' 10.3 KM (6.40 MI) TO A PAVED ROAD LEFT. TURN LEFT, SOUTH ON WEST

JA0188' WASHINGTON SCHOOL ROAD FOR 1.61 KM (1.00 MI) TO THE PAVED JUNCTION OF

JA0188' LOST RIVER ROAD AND THE STATION ON THE LEFT. THE STATION IS SET IN

JA0188' THE TOP OF A 35 CM SQUARE CONCRETE POST PROJECTING 3 CM ABOVE GROUND.

JA0188' IT IS 28.0 M (91.9 FT) EAST OF THE CENTER OF WASHINGTON SCHOOL ROAD,

JA0188' 12.4 M (40.7 FT) NORTHEAST OF THE NORTHWEST CORNER OF A BARN, 11.4 M

JA0188' (37.4 FT) NORTHWEST OF THE NORTHEAST CORNER OF THE BARN, 10.5 M (34.4

JA0188' FT) NORTH OF THE NORTH FACE OF THE BARN, 10.5 M (34.4 FT)

JA0188' SOUTH-SOUTHWEST OF THE CENTER OF LOST RIVER ROAD, 9.6 M (31.5 FT)

JA0188' SOUTHEAST OF THE WEST END OF A FENCE AND 5.5 M (18.0 FT) SOUTH OF A

JA0188' FENCE AND A FIBERGLASS WITNESS POST.

JA0188

JA0188

STATION RECOVERY (2006)

JA0188

JA0188' RECOVERY NOTE BY LANDMARK SURVEYING INCORPORATED 2006 (DLH)

JA0188' THE SITE IS SUITABLE FOR GPS OBSERVATIONS.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JA0279 *****

JA0279 CBN - This is a Cooperative Base Network Control Station.

JA0279 DESIGNATION - Y 312

JA0279 PID - JA0279

JA0279 STATE/COUNTY- IN/CRAWFORD

JA0279 USGS QUAD - ENGLISH (1993)

JA0279

JA0279

*CURRENT SURVEY CONTROL

JA0279

JA0279* NAD 83(2007)- 38 20 38.43340(N) 086 24 45.63155(W) ADJUSTED

JA0279* NAVD 88 - 177.099 (meters) 581.03 (feet) ADJUSTED

JA0279

JA0279 EPOCH DATE - 2002.00

JA0279 X - 313,408.189 (meters) COMP

JA0279 Y - -4,999,128.375 (meters) COMP

JA0279 Z - 3,935,552.570 (meters) COMP

JA0279 LAPLACE CORR- -1.58 (seconds) DEFLECO9

JA0279 ELLIP HEIGHT- 143.808 (meters) (02/10/07) ADJUSTED

JA0279 GEOID HEIGHT- -33.29 (meters) GEOID09

JA0279 DYNAMIC HT - 176.974 (meters) 580.62 (feet) COMP

JA0279

JA0279 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

JA0279 Type PID Designation North East Ellip

JA0279 -----

JA0279 NETWORK JA0279 Y 312 0.80 0.53 1.96

JA0279 -----

JA0279 MODELED GRAV- 979,918.0 (mgal) NAVD 88

JA0279

JA0279 VERT ORDER - FIRST CLASS II

JA0279

JA0279.The horizontal coordinates were established by GPS observations
 JA0279.and adjusted by the National Geodetic Survey in February 2007.

JA0279

JA0279.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

JA0279.See National Readjustment for more information.

JA0279.The horizontal coordinates are valid at the epoch date displayed above.

JA0279.The epoch date for horizontal control is a decimal equivalence

JA0279.of Year/Month/Day.

JA0279

JA0279.The orthometric height was determined by differential leveling and

JA0279.adjusted in June 1991.

JA0279

JA0279.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JA0279

JA0279.The Laplace correction was computed from DEFLEC09 derived deflections.

JA0279

JA0279.The ellipsoidal height was determined by GPS observations

JA0279.and is referenced to NAD 83.

JA0279

JA0279.The geoid height was determined by GEOID09.

JA0279

JA0279.The dynamic height is computed by dividing the NAVD 88

JA0279.geopotential number by the normal gravity value computed on the

JA0279.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

JA0279.degrees latitude (g = 980.6199 gals.).

JA0279

JA0279.The modeled gravity was interpolated from observed gravity values.

JA0279

JA0279;

	North	East	Units	Scale	Factor	Converg.
JA0279;SPC IN W	- 343,890.566	958,627.659	MT	1.00000898	+0 24	57.9
JA0279;SPC IN W	- 1,128,247.63	3,145,097.58	sFT	1.00000898	+0 24	57.9
JA0279;UTM 16	- 4,244,147.882	551,323.925	MT	0.99963244	+0 21	51.7

JA0279

JA0279! Elev Factor x Scale Factor = Combined Factor

JA0279!SPC IN W - 0.99997744 x 1.00000898 = 0.99998642

JA0279!UTM 16 - 0.99997744 x 0.99963244 = 0.99960988

JA0279

JA0279

SUPERSEDED SURVEY CONTROL

JA0279

JA0279 NAD 83(1997)- 38 20 38.43358(N) 086 24 45.63174(W) AD() B

JA0279 ELLIP H (04/10/98) 143.826 (m) GP() 4 1

JA0279 NAD 83(1993)- 38 20 38.44139(N) 086 24 45.63788(W) AD() 3

JA0279 NAD 83(1986)- 38 20 38.44348(N) 086 24 45.63978(W) AD() 3

JA0279 NAD 27 - 38 20 38.23686(N) 086 24 45.69716(W) AD() 3

JA0279 NAVD 88 (04/10/98) 177.10 (m) 581.0 (f) LEVELING 3

JA0279 NGVD 29 (??/??/92) 177.209 (m) 581.39 (f) ADJ UNCH 1 2

JA0279

JA0279.Superseded values are not recommended for survey control.

JA0279.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JA0279.See file dsdata.txt to determine how the superseded data were derived.

JA0279

JA0279_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEH5132344147(NAD 83)

JA0279_MARKER: DB = BENCH MARK DISK

JA0279_SETTING: 30 = SET IN A LIGHT STRUCTURE

JA0279_SP_SET: CULVERT HEADWALL
 JA0279_STAMPING: Y 312 1965
 JA0279_MARK LOGO: CGS
 JA0279_MAGNETIC: N = NO MAGNETIC MATERIAL
 JA0279_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
 JA0279_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 JA0279+SATELLITE: SATELLITE OBSERVATIONS - May 27, 1997

JA0279

JA0279	HISTORY	- Date	Condition	Report By
JA0279	HISTORY	- 1965	MONUMENTED	CGS
JA0279	HISTORY	- 19880705	GOOD	NGS
JA0279	HISTORY	- 19970527	GOOD	NGS
JA0279	HISTORY	- 20100323	GOOD	JCLS

JA0279

JA0279

STATION DESCRIPTION

JA0279

JA0279'DESCRIBED BY COAST AND GEODETIC SURVEY 1965

JA0279'3 MI E FROM ENGLISH.

JA0279'3.0 MILES EAST ALONG THE SOUTHERN RAILROAD FROM THE STATION AT

JA0279'ENGLISH, IN SECTION 16, T 2 S, R 1 E, AT THE SMALL SETTLEMENT

JA0279'OF TEMPLE, 0.35 MILE WEST OF THE CROSSING OF THE RAILROAD AND

JA0279'OLD STATE ROAD 64, 6 1/2 FEET NORTH OF THE NORTH RAIL, SET IN

JA0279'THE TOP OF THE WEST END OF THE NORTH HEADWALL OF A CONCRETE

JA0279'CULVERT, ABOUT 1 FOOT BELOW THE LEVEL OF THE ROAD.

JA0279

JA0279

STATION RECOVERY (1988)

JA0279

JA0279'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1988

JA0279'THE STATION IS LOCATED ABOUT 32.2 KM (20.00 MI) SOUTHEAST OF FRENCH

JA0279'LICK, 20.9 KM (13.00 MI) NORTH OF INTERSTATE HIGHWAY 64, 4.8 KM

JA0279'(3.00 MI) EAST OF ENGLISH AND ON RAILROAD RIGHT-OF-WAY JUST NORTH OF A

JA0279'ROCK QUARRY. OWNERSHIP--SOUTHERN RAILROAD, 185 SPRING STREET SW,

JA0279'ATLANTA, GA 30303, PHONE 404-529-2345.

JA0279'TO REACH THE STATION FROM THE POST OFFICE IN ENGLISH, GO EAST AND

JA0279'SOUTHEAST ON A PAVED BUT ROUGH ROAD FOR 2.2 KM (1.35 MI) TO A FORK.

JA0279'TAKE RIGHT FORK AND CONTINUE FOR 5.1 KM (3.15 MI) TO MARK ON THE

JA0279'RIGHT IN CULVERT.

JA0279'THE STATION IS A STANDARD CGS BENCH MARK DISK STAMPED---Y 312

JA0279'1965---, SET IN A DRILL HOLE IN CONCRETE HEADWALL. LOCATED 2.0 M

JA0279'(6.6 FT) NORTH FROM NORTH RAIL OF TRACKS AND IN THE WEST END OF THE

JA0279'NORTH HEADWALL OF CULVERT. THE CULVERT IS ABOUT 0.3 M (1.0 FT) LOWER

JA0279'THAN THE TRACKS.

JA0279'GPS SURVEY, FAA AIRPORTS, INDIANA.

JA0279'DESCRIBED BY D.A. BOWLING.

JA0279

JA0279

STATION RECOVERY (1997)

JA0279

JA0279'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (CSM)

JA0279'THE STATION IS LOCATED ABOUT 32 KM (19.90 MI) SOUTHEAST OF FRENCH

JA0279'LICK, 20 KM (12.40 MI) NORTH OF INTERSTATE HIGHWAY 64, 5 KM (3.10 MI)

JA0279'EAST OF ENGLISH, 1 KM (0.60 MI) WEST OF A ROCK QUARRY, BETWEEN A ROAD

JA0279'AND RAILROAD AND IN THE RAILROAD RIGHT-OF-WAY. OWNERSHIP--SOUTHERN

JA0279'RAILROAD. CONTACT THE SOUTHERN RAILROAD CHIEF DISPATCHER AT

JA0279'606-678-6112 BEFORE OCCUPYING STATION. TO REACH FROM OVERPASS AT THE

JA0279'JUNCTION OF STATE HIGHWAYS 64 AND 37, ABOUT 1.5 KM (0.95 MI) WEST OF

JA0279'ENGLISH, GO EAST ON HIGHWAY 64 PASSING THROUGH THE NORTH SIDE OF

JA0279'ENGLISH FOR 4.38 KM (2.70 MI) TO A PAVED ROAD RIGHT NEAR THE BOTTOM OF

JA0279'A GRADE IN THE HIGHWAY AND ABOUT 0.08 KM (0.05 MI) EAST OF A BRIDGE.
 JA0279'TURN RIGHT, SOUTHEAST ON THE ROAD FOR 2.01 KM (1.25 MI) TO A PAVED
 JA0279'Y-JUNCTION JUST BEFORE THE BOTTOM OF A HILL. TURN RIGHT, SOUTH ON THE
 JA0279'ROAD FOR 0.16 KM (0.10 MI) TO A T-JUNCTION AT THE BOTTOM OF THE HILL
 JA0279'AND THE STATION ON THE RIGHT. THE STATION IS SET IN THE TOP OF AND
 JA0279'NEAR THE WEST END OF A 4.5 M (14.8 FT) LONG X 2.5 M (8.2 FT) HIGH X
 JA0279'0.3 M (1.0 FT) WIDE HEADWALL LEADING UNDER THE RAILROAD. IT IS 14.5 M
 JA0279'(47.6 FT) WEST OF THE EXTENDED CENTER OF THE ROAD LEADING NORTH, 11.7
 JA0279'M (38.4 FT) SOUTH OF THE EAST-WEST ROAD, 7.3 M (24.0 FT) SOUTH OF THE
 JA0279'SOUTH END OF THE WEST ONE OF TWO STEEL CULVERTS UNDER THE ROAD, 1.9 M
 JA0279'(6.2 FT) NORTH OF THE NORTH RAIL AND 0.4 M (1.31 FT) EAST OF THE WEST
 JA0279'END OF THE HEADWALL.

JA0279

JA0279

STATION RECOVERY (2010)

JA0279

JA0279'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2010

JA0279'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JA0453 *****

JA0453 DESIGNATION - F 324

JA0453 PID - JA0453

JA0453 STATE/COUNTY- IN/HARRISON

JA0453 USGS QUAD - LACONIA (1994)

JA0453

JA0453

*CURRENT SURVEY CONTROL

JA0453

JA0453*	NAD 83(1986)-	38 01 56.	(N)	086 06 20.	(W)	SCALED
JA0453*	NAVD 88	- 186.589	(meters)	612.17	(feet)	ADJUSTED

JA0453

JA0453 GEOID HEIGHT- -32.93 (meters) GEOID09

JA0453 DYNAMIC HT - 186.456 (meters) 611.73 (feet) COMP

JA0453 MODELED GRAV- 979,916.6 (mgal) NAVD 88

JA0453

JA0453 VERT ORDER - FIRST CLASS II

JA0453

JA0453.The horizontal coordinates were scaled from a topographic map and have
 JA0453.an estimated accuracy of +/- 6 seconds.

JA0453

JA0453.The orthometric height was determined by differential leveling and
 JA0453.adjusted in June 1991.

JA0453

JA0453.The geoid height was determined by GEOID09.

JA0453

JA0453.The dynamic height is computed by dividing the NAVD 88
 JA0453.geopotential number by the normal gravity value computed on the
 JA0453.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 JA0453.degrees latitude (g = 980.6199 gals.).

JA0453

JA0453.The modeled gravity was interpolated from observed gravity values.

JA0453

JA0453;	North	East	Units	Estimated Accuracy
JA0453;SPC IN E	- 309,160.	61,470.	MT	(+/- 180 meters Scaled)

JA0453

SUPERSEDED SURVEY CONTROL

JA0453

JA0453	NGVD 29 (??/??/92)	186.708	(m)	612.56	(f)	ADJ UNCH	1 2
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JA0453

JA0453.Superseded values are not recommended for survey control.
 JA0453.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 JA0453.See file dsdata.txt to determine how the superseded data were derived.
 JA0453
 JA0453_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEH784097(NAD 83)
 JA0453_MARKER: DB = BENCH MARK DISK
 JA0453_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 JA0453_SP_SET: SET IN TOP OF CONCRETE MONUMENT
 JA0453_STAMPING: F 324 1965
 JA0453_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 JA0453+STABILITY: SURFACE MOTION

JA0453
 JA0453 HISTORY - Date Condition Report By
 JA0453 HISTORY - 1965 MONUMENTED CGS

JA0453 STATION DESCRIPTION

JA0453'DESCRIBED BY COAST AND GEODETIC SURVEY 1965
 JA0453'1 MI W FROM LACONIA.
 JA0453'1.0 MILE WEST ALONG STATE HIGHWAY 11 FROM THE SCHOOLHOUSE AT
 JA0453'LACONIA, ON PROPERTY BELONGING TO GERALD FAITH, IN SECTION 31,
 JA0453'T 5 S, R 4 E, 69 FEET NORTH OF THE CENTER LINE OF THE HIGHWAY, 67
 JA0453'FEET NORTHEAST OF THE CORNER OF A HOUSE, 33 FEET EAST OF THE
 JA0453'CENTER LINE OF A PRIVATE DRIVEWAY, 1 1/2 FEET WEST OF A FENCE,
 JA0453'1.3 FEET WEST OF A METAL WITNESS POST, ABOUT LEVEL WITH THE
 JA0453'HIGHWAY, AND SET IN THE TOP OF A CONCRETE POST ABOUT 2 INCHES
 JA0453'BELOW THE HIGHWAY.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JA0629 *****

JA0629 DESIGNATION - 22 M USGS
 JA0629 PID - JA0629
 JA0629 STATE/COUNTY- IN/PERRY
 JA0629 USGS QUAD - DERBY (1993)

JA0629
 JA0629 *CURRENT SURVEY CONTROL

JA0629*	NAD 83(1986)-	38 06 04.	(N)	086 30 16.	(W)	SCALED
JA0629*	NAVD 88	- 244.291	(meters)	801.48	(feet)	ADJUSTED
JA0629	GEOID HEIGHT-	-32.84	(meters)			GEOID09
JA0629	DYNAMIC HT -	244.113	(meters)	800.89	(feet)	COMP
JA0629	MODELED GRAV-	979,897.0	(mgal)			NAVD 88

JA0629 VERT ORDER - FIRST CLASS II

JA0629.The horizontal coordinates were scaled from a topographic map and have
 JA0629.an estimated accuracy of +/- 6 seconds.

JA0629.The orthometric height was determined by differential leveling and
 JA0629.adjusted in June 1991.

JA0629.The geoid height was determined by GEOID09.

JA0629.The dynamic height is computed by dividing the NAVD 88
 JA0629.geopotential number by the normal gravity value computed on the
 JA0629.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 JA0629.degrees latitude (g = 980.6199 gals.).

JA0629

JA0629.The modeled gravity was interpolated from observed gravity values.

JA0629

JA0629;		North	East	Units	Estimated Accuracy
JA0629;SPC IN W	-	316,880.	950,770.	MT	(+/- 180 meters Scaled)

JA0629

JA0629 SUPERSEDED SURVEY CONTROL

JA0629

JA0629	NGVD 29 (??/??/92)	244.391	(m)	801.81	(f) ADJ UNCH	1 2
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JA0629

JA0629.Superseded values are not recommended for survey control.

JA0629.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JA0629.See file dsdata.txt to determine how the superseded data were derived.

JA0629

JA0629_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEH434171(NAD 83)

JA0629_MARKER: DD = SURVEY DISK

JA0629_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JA0629_SP_SET: SET IN TOP OF CONCRETE MONUMENT

JA0629_STAMPING: 22 M 1947 801

JA0629_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JA0629+STABILITY: SURFACE MOTION

JA0629

JA0629	HISTORY	- Date	Condition	Report By
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JA0629	HISTORY	- 1947	MONUMENTED	USGS
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JA0629	HISTORY	- 1965	GOOD	NGS
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JA0629

JA0629 STATION DESCRIPTION

JA0629

JA0629'DESCRIBED BY NATIONAL GEODETIC SURVEY 1965

JA0629'10.4 MI S FROM SULPHUR.

JA0629'ABOUT 10.4 MILES SOUTH ALONG STATE HIGHWAY 66 FROM THE POST
 JA0629'OFFICE AT SULPHUR, OR ABOUT 0.1 MILE EAST ALONG A PAVED ROAD FROM
 JA0629'THE BAPTIST CHURCH AT DERBY, THENCE 7.8 MILES NORTHEAST ALONG
 JA0629'STATE HIGHWAY 66, IN SECTION 3, T 5 S, R 1 W, 25 FEET NORTH OF
 JA0629'THE CENTER LINE OF THE HIGHWAY 25 FEET NORTHEAST OF THE CENTER
 JA0629'OF THE INTERSECTION OF THE HIGHWAY AND A GRAVELED ROAD, 155 FEET
 JA0629'SOUTHWEST OF THE SOUTHWEST CORNER OF A SCHOOL WHICH IS ABANDONED,
 JA0629'87 FEET NORTHWEST OF THE NORTHWEST CORNER OF A HOUSE OWNED BY
 JA0629'G.E. STRAHL, 7 FEET EAST OF A BRACE POLE FOR A TELEPHONE POLE,
 JA0629'1.6 FEET WEST OF A METAL WITNESS POST, SET IN THE TOP OF A
 JA0629'CONCRETE POST PROJECTING 4 INCHES.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JA2126 *****

JA2126 CBN - This is a Cooperative Base Network Control Station.

JA2126 DESIGNATION - FRENCH AZ MK

JA2126 PID - JA2126

JA2126 STATE/COUNTY- IN/ORANGE

JA2126 USGS QUAD - HILLHAM (1993)

JA2126

JA2126 *CURRENT SURVEY CONTROL

JA2126

JA2126*	NAD 83(2007)-	38 30 16.90141(N)	086 38 47.94670(W)	ADJUSTED
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JA2126*	NAVD 88	-	240.0 (meters)	787. (feet)	GPS OBS
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JA2126

JA2126	EPOCH DATE	-	2002.00
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JA2126	X	-	292,345.360 (meters)	COMP
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JA2126	Y	-	-4,989,349.403 (meters)	COMP
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4/28/2011

DATASHEETS

JA2126	Z	-	3,949,566.119 (meters)	COMP
JA2126	LAPLACE CORR-		-3.64 (seconds)	DEFLEC09
JA2126	ELLIP HEIGHT-		207.007 (meters)	(02/10/07) ADJUSTED
JA2126	GEOID HEIGHT-		-32.98 (meters)	GEOID09

JA2126 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

JA2126	Type	PID	Designation	North	East	Ellip
JA2126	-----	-----	-----	-----	-----	-----
JA2126	NETWORK	JA2126	FRENCH AZ MK	0.78	0.51	1.98
JA2126	-----	-----	-----	-----	-----	-----

JA2126.This mark is at French Lick Airport (FRH)

JA2126

JA2126.The horizontal coordinates were established by GPS observations

JA2126.and adjusted by the National Geodetic Survey in February 2007.

JA2126

JA2126.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

JA2126.See National Readjustment for more information.

JA2126.The horizontal coordinates are valid at the epoch date displayed above.

JA2126.The epoch date for horizontal control is a decimal equivalence

JA2126.of Year/Month/Day.

JA2126

JA2126.The orthometric height was determined by GPS observations and a

JA2126.high-resolution geoid model.

JA2126

JA2126.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JA2126

JA2126.The Laplace correction was computed from DEFLEC09 derived deflections.

JA2126

JA2126.The ellipsoidal height was determined by GPS observations

JA2126.and is referenced to NAD 83.

JA2126

JA2126.The geoid height was determined by GEOID09.

JA2126

JA2126;		North	East	Units	Scale Factor	Converg.
JA2126;SPC IN W	-	361,604.289	938,089.274	MT	0.99998453	+0 16 18.7
JA2126;SPC IN W	-	1,186,363.40	3,077,714.56	sFT	0.99998453	+0 16 18.7
JA2126;UTM 16	-	4,261,873.520	530,809.250	MT	0.99961169	+0 13 12.0

JA2126

JA2126! - Elev Factor x Scale Factor = Combined Factor

JA2126!SPC IN W - 0.99996752 x 0.99998453 = 0.99995205

JA2126!UTM 16 - 0.99996752 x 0.99961169 = 0.99957922

JA2126

JA2126:		Primary Azimuth Mark	Grid Az
JA2126:SPC IN W	-	FRENCH	082 12 25.2
JA2126:UTM 16	-	FRENCH	082 15 31.9

JA2126

JA2126	-----	-----	-----	-----
JA2126	PID	Reference Object	Distance	Geod. Az
JA2126				ddmmss.s
JA2126	JA2125	FRENCH	APPROX. 0.9 KM	0822843.9
JA2126	-----	-----	-----	-----

JA2126

JA2126 SUPERSEDED SURVEY CONTROL

JA2126

JA2126	NAD 83(1997)-	38 30 16.90159(N)	086 38 47.94691(W)	AD() B
JA2126	ELLIP H (04/10/98)	207.021 (m)		GP() 4 1

JA2126 NAD 83(1986)- 38 30 16.90890(N) 086 38 47.95197(W) AD() 3
 JA2126 NAD 27 - 38 30 16.71498(N) 086 38 47.97991(W) AD() 3
 JA2126 NGVD 29 (02/23/89) 240.2 (m) 788. (f) GPS OBS

JA2126

JA2126.Superseded values are not recommended for survey control.

JA2126.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JA2126.See file dsdata.txt to determine how the superseded data were derived.

JA2126

JA2126_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEH3080961873(NAD 83)

JA2126_MARKER: DZ = AZIMUTH MARK DISK

JA2126_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JA2126_SP_SET: CONCRETE POST

JA2126_STAMPING: FRENCH 1986

JA2126_MARK LOGO: NGS

JA2126_MAGNETIC: N = NO MAGNETIC MATERIAL

JA2126_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JA2126+STABILITY: SURFACE MOTION

JA2126_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JA2126+SATELLITE: SATELLITE OBSERVATIONS - August 26, 1997

JA2126

HISTORY	Date	Condition	Report By
HISTORY	1988	MONUMENTED	NGS
HISTORY	19970826	GOOD	SEC

JA2126 HISTORY - 1988 MONUMENTED NGS

JA2126 HISTORY - 19970826 GOOD SEC

JA2126

JA2126 STATION DESCRIPTION

JA2126

JA2126'DESCRIBED BY NATIONAL GEODETIC SURVEY 1988

JA2126'THE STATION IS LOCATED ABOUT 32.2 KM (20.00 MI) SOUTHEAST OF

JA2126'LOOGOOTE, 16.1 KM (10.00 MI) SOUTHWEST OF PAOLI, 6.4 KM (4.00 MI)

JA2126'SOUTH OF FRENCH LICK AND AT THE FRENCH LICK MUNICIPAL AIRPORT.

JA2126'OWNERSHIP--CITY OF FRENCH LICK, CITY HALL, FRENCH LICK, IN 47432,

JA2126'PHONE 812-936-2222. AIRPORT MANAGER IS ED COURTRIGHT.

JA2126'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 56 AND 145

JA2126'IN FRENCH LICK, GO SOUTH ON STATE HIGHWAY 145 FOR 5.9 KM (3.65 MI) TO

JA2126'A SIDE ROAD RIGHT. TURN RIGHT AND GO WEST FOR 3.4 KM (2.10 MI) TO

JA2126'AIRPORT ENTRANCE ROAD ON THE RIGHT. TURN RIGHT AND GO NORTH ON PAVED

JA2126'ROAD FOR 0.3 KM (0.20 MI) TO OFFICE ON THE RIGHT AND GATE. PASS THRU

JA2126'GATE FOR 0.2 KM (0.10 MI) TO RUNWAY. TURN LEFT AND GO SOUTHWEST

JA2126'ALONG RUNWAY FOR 0.5 KM (0.80 MI) TO MARK ON THE RIGHT.

JA2126'THE STATION MARK IS A STANDARD NGS AZIMUTH MARK DISK STAMPED---FRENCH

JA2126'1986---, SET IN THE TOP OF A 20 CM IN DIAMETER CONCRETE POST THAT IS

JA2126'FLUSH WITH THE GROUND. LOCATED 35.4 M (116.1 FT) WEST-NORTHWEST

JA2126'FROM NORTHWEST CORNER OF RUNWAY 8, 35.7 M (117.1 FT) NORTH FROM NORTH

JA2126'ONE OF SIX LANDING LIGHT STANDARDS ON WEST EMBANKMENT OF RUNWAY AND

JA2126'1.1 M (3.6 FT) SOUTH-SOUTHWEST FROM A FIBERGLASS WITNESS POST.

JA2126'GPS SURVEY, FAA AIRPORTS, INDIANA.

JA2126'DESCRIBED BY D.A. BOWLING.

JA2126

JA2126 STATION RECOVERY (1997)

JA2126

JA2126'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

JA2126'THE STATION IS LOCATED ABOUT 20 MILES (32.2 KM) SOUTHEAST OF LOOGOOTE,

JA2126'10.00 MILES (16.09 KM) SOUTHWEST OF PAOLI, 4 MILES (6.4 KM) SOUTH OF

JA2126'FRENCH LICK, AT THE FRENCH LICK MUNICIPAL AIRPORT. TO REACH THE

JA2126'STATION FROM THE JUNCTION OF STATE HIGHWAYS 145 AND 56 IN FRENCH LICK,

JA2126'GO SOUTH ON STATE ROAD 145 FOR 3.70 MILES (5.95 KM) TO COUNTY ROAD 350

JA2126'SOUTH. TURN RIGHT AND GO WEST 2.00 MILES (3.22 KM) TO GATE AND

JA2126'OFFICE. PASS THROUGH GATE FOR 0.10 MILES (0.16 KM) TO RUNWAY. TURN
 JA2126'LEFT AND GO SOUTHWEST ALONG RUNWAY FOR 0.30 MILES (0.48 KM) TO STATION
 JA2126'ON RIGHT. OWNERSHIP--CITY OF FRENCH LICK, CITY HALL, FRENCH LICK IN
 JA2126'47432, PHONE 812-936-2222. THE STATION IS SET IN A 20 CM ROUND
 JA2126'CONCRETE FLUSH WITH GROUND, AZIMUTH 123 DEGREES 35.40 METERS (116.14
 JA2126'FT) TO NORTHWEST CORNER RUNWAY NUMBER 8, AZIMUTH 127 DEGREES 35.6
 JA2126'METERS (116.8 FT) TO NORTHERNMOST RUNWAY LIGHT, AZIMUTH 322 DEGREES
 JA2126'1.2 METERS (3.9 FT) TO A ORANGE FIBERGLASS WITNESS POST.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JZ2075 *****

JZ2075 DESIGNATION - J 9
 JZ2075 PID - JZ2075
 JZ2075 STATE/COUNTY- IN/SHELBY
 JZ2075 USGS QUAD - HOPE (1993)

JZ2075
 JZ2075 *CURRENT SURVEY CONTROL

JZ2075*	NAD 83(1986)-	39 21 53.68	(N)	085 49 52.68	(W)	HD_HELD1
JZ2075*	NAVD 88	- 210.930	(meters)	692.03	(feet)	ADJUSTED

JZ2075	GEOID HEIGHT-	-33.86	(meters)			GEOID09
JZ2075	DYNAMIC HT -	210.802	(meters)	691.61	(feet)	COMP
JZ2075	MODELED GRAV-	980,017.4	(mgal)			NAVD 88

JZ2075
 JZ2075 VERT ORDER - FIRST CLASS II

JZ2075 The horizontal coordinates were established by differentially corrected
 JZ2075 hand held GPS obs and have an estimated accuracy of +/- 3 meters.

JZ2075 The orthometric height was determined by differential leveling and
 JZ2075 adjusted in June 1991.

JZ2075 The geoid height was determined by GEOID09.

JZ2075 The dynamic height is computed by dividing the NAVD 88
 JZ2075 geopotential number by the normal gravity value computed on the
 JZ2075 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 JZ2075 degrees latitude (g = 980.6199 gals.).

JZ2075 The modeled gravity was interpolated from observed gravity values.

JZ2075;	North	East	Units	Estimated Accuracy
JZ2075;SPC IN E	- 457,019.9	85,812.4	MT	(+/- 3 meters Hh1 GPS)

JZ2075
 JZ2075 SUPERSEDED SURVEY CONTROL

JZ2075	NGVD 29 (??/??/92)	211.046	(m)	692.41	(f)	ADJ UNCH	1 2
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JZ2075 Superseded values are not recommended for survey control.
 JZ2075 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 JZ2075 See file dsdata.txt to determine how the superseded data were derived.

JZ2075 U.S. NATIONAL GRID SPATIAL ADDRESS: 16SFJ0067957923(NAD 83)
 JZ2075 MARKER: DB = BENCH MARK DISK
 JZ2075 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 JZ2075 SP_SET: SET IN TOP OF CONCRETE MONUMENT
 JZ2075 STAMPING: ELEV 692.407 FT 211.046 M J 9 1930

JZ2075_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 JZ2075+STABILITY: SURFACE MOTION
 JZ2075_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 JZ2075+SATELLITE: SATELLITE OBSERVATIONS - March 17, 2010
 JZ2075
 JZ2075 HISTORY - Date Condition Report By
 JZ2075 HISTORY - 1930 MONUMENTED CGS
 JZ2075 HISTORY - 1947 GOOD NGS
 JZ2075 HISTORY - 1984 GOOD INDNR
 JZ2075 HISTORY - 20030327 GOOD INDNR
 JZ2075 HISTORY - 20061102 GOOD INDNR
 JZ2075 HISTORY - 20100317 GOOD AEROME

JZ2075
 JZ2075 STATION DESCRIPTION
 JZ2075

JZ2075'DESCRIBED BY NATIONAL GEODETIC SURVEY 1947
 JZ2075'AT FLAT ROCK.
 JZ2075'AT FLAT ROCK, ABOUT 2 1/2 RAILS NORTH OF THE MAIN STREET
 JZ2075'CROSSING OF THE PENNSYLVANIA RAILROAD, 126 FEET NORTH AND ACROSS
 JZ2075'THE STREET FROM THE NORTHEAST CORNER OF THE STATION, 11 FEET
 JZ2075'WEST OF THE WEST RAIL OF THE MAIN TRACK, 69 FEET NORTH OF THE
 JZ2075'NORTHEAST CORNER OF MOHRS HARDWARE STORE, 15.5 FEET SOUTH OF A
 JZ2075'TELEGRAPH POLE, 1.5 FEET NORTH OF A WHITE WOODEN WITNESS POST, 1
 JZ2075'FOOT BELOW TRACK LEVEL AND SET IN THE TOP OF A CONCRETE POST
 JZ2075'PROJECTING ABOUT 5 INCHES.

JZ2075
 JZ2075 STATION RECOVERY (1984)
 JZ2075

JZ2075'RECOVERY NOTE BY IN DEPT OF NAT RES 1984
 JZ2075'THE RAILROAD IS ABAND. AND THE RAILS REMOVED. THE WITNESS POST IS
 JZ2075'GONE. THE MARK IS APPROX. 15 FT. WEST OF THE CENTERLINE OF THE DIRT
 JZ2075'ROAD ALONG THE OLD ABAND. RAILROAD GRADE.

JZ2075
 JZ2075 STATION RECOVERY (2003)
 JZ2075

JZ2075'RECOVERY NOTE BY IN DEPT OF NAT RES 2003 (RWW)
 JZ2075'RECOVERED IN GOOD CONDITION.

JZ2075
 JZ2075 STATION RECOVERY (2006)
 JZ2075

JZ2075'RECOVERY NOTE BY IN DEPT OF NAT RES 2006 (RWW)
 JZ2075'RECOVERED IN GOOD CONDITION.

JZ2075
 JZ2075 STATION RECOVERY (2010)
 JZ2075

JZ2075'RECOVERY NOTE BY AERO METRIC INC 2010
 JZ2075'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011
 JZ2083 *****
 JZ2083 DESIGNATION - M 9
 JZ2083 PID - JZ2083
 JZ2083 STATE/COUNTY- IN/BARTHOLOMEW
 JZ2083 USGS QUAD - COLUMBUS (1993)
 JZ2083
 JZ2083 *CURRENT SURVEY CONTROL
 JZ2083
 JZ2083* NAD 83(1986)- 39 14 16.05 (N) 085 53 42.04 (W) HD_HELD1

4/28/2011

DATASHEETS

JZ2083* NAVD 88 - 195.999 (meters) 643.04 (feet) ADJUSTED
 JZ2083
 JZ2083 GEOID HEIGHT- -33.85 (meters) GEOID09
 JZ2083 DYNAMIC HT - 195.879 (meters) 642.65 (feet) COMP
 JZ2083 MODELED GRAV- 980,010.7 (mgal) NAVD 88

JZ2083 VERT ORDER - FIRST CLASS II

JZ2083.The horizontal coordinates were established by differentially corrected hand held GPS obs and have an estimated accuracy of +/- 3 meters.

JZ2083.The orthometric height was determined by differential leveling and adjusted in June 1991.

JZ2083.The geoid height was determined by GEOID09.

JZ2083.The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (g = 980.6199 gals.).

JZ2083.The modeled gravity was interpolated from observed gravity values.

JZ2083;		North	East	Units	Estimated Accuracy
JZ2083;SPC IN E	-	442,919.4	80,286.4	MT	(+/- 3 meters HHL GPS)

SUPERSEDED SURVEY CONTROL

JZ2083 NGVD 29 (??/??/92) 196.120 (m) 643.44 (f) ADJ UNCH 1 2

JZ2083.Superseded values are not recommended for survey control. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums. See file dsdata.txt to determine how the superseded data were derived.

JZ2083_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ9536343746(NAD 83)

JZ2083_MARKER: DB = BENCH MARK DISK

JZ2083_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JZ2083_SP_SET: SET IN TOP OF CONCRETE MONUMENT

JZ2083_STAMPING: M 9 1930 643.437 196.120M

JZ2083_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JZ2083+STABILITY: SURFACE MOTION

JZ2083	HISTORY	- Date	Condition	Report By
JZ2083	HISTORY	- 1930	MONUMENTED	CGS
JZ2083	HISTORY	- 1947	GOOD	NGS
JZ2083	HISTORY	- 20070109	GOOD	BEACON

STATION DESCRIPTION

JZ2083'DESCRIBED BY NATIONAL GEODETIC SURVEY 1947

JZ2083'3 MI N FROM COLUMBUS.

JZ2083'ABOUT 3.0 MILES NORTH ALONG THE PENNSYLVANIA RAILROAD FROM THE STATION AT COLUMBUS, IN THE NORTHEAST ANGLE OF THE CROSSING OF AN EAST-WEST BLACK TOP ROAD, 43.7 FEET NORTHEAST OF MILE POST C-3, 64 FEET NORTH OF THE CENTER LINE OF THE EAST-WEST ROAD, 45 FEET EAST AND ACROSS THE TRACK FROM THE CENTER LINE OF A BLACK TOP ROAD LEADING NORTH TO THE ATTERBURY AIRPORT, 20 FEET SOUTHEAST

JZ2083'OF THE SOUTHEAST RAIL, ABOUT LEVEL WITH THE TRACKS AND SET IN
JZ2083'THE TOP OF A CONCRETE POST PROJECTING 8 INCHES.

JZ2083

JZ2083

STATION RECOVERY (2007)

JZ2083

JZ2083'RECOVERY NOTE BY BEACON SURVEYING AND ENGINEERING 2007 (BSE)

JZ2083'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JZ2109 *****

JZ2109 DESIGNATION - N 92

JZ2109 PID - JZ2109

JZ2109 STATE/COUNTY- IN/JENNINGS

JZ2109 USGS QUAD - NORTH VERNON (1993)

JZ2109

JZ2109 *CURRENT SURVEY CONTROL

JZ2109

JZ2109* NAD 83(1986)- 39 00 22. (N) 085 39 06. (W) SCALED

JZ2109* NAVD 88 - 226.057 (meters) 741.66 (feet) ADJUSTED

JZ2109

JZ2109 GEOID HEIGHT- -33.99 (meters) GEOID09

JZ2109 DYNAMIC HT - 225.914 (meters) 741.19 (feet) COMP

JZ2109 MODELED GRAV- 979,989.1 (mgal) NAVD 88

JZ2109

JZ2109 VERT ORDER - FIRST CLASS II

JZ2109

JZ2109.The horizontal coordinates were scaled from a topographic map and have
JZ2109.an estimated accuracy of +/- 6 seconds.

JZ2109

JZ2109.The orthometric height was determined by differential leveling and
JZ2109.adjusted in June 1991.

JZ2109

JZ2109.The geoid height was determined by GEOID09.

JZ2109

JZ2109.The dynamic height is computed by dividing the NAVD 88

JZ2109.geopotential number by the normal gravity value computed on the

JZ2109.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

JZ2109.degrees latitude (g = 980.6199 gals.).

JZ2109

JZ2109.The modeled gravity was interpolated from observed gravity values.

JZ2109

JZ2109; North East Units Estimated Accuracy

JZ2109;SPC IN E - 417,180. 101,300. MT (+/- 180 meters Scaled)

JZ2109

JZ2109 SUPERSEDED SURVEY CONTROL

JZ2109

JZ2109 NGVD 29 (??/??/92) 226.177 (m) 742.05 (f) ADJ UNCH 1 2

JZ2109

JZ2109.Superseded values are not recommended for survey control.

JZ2109.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JZ2109.See file dsdata.txt to determine how the superseded data were derived.

JZ2109

JZ2109_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SFJ167183(NAD 83)

JZ2109_MARKER: DB = BENCH MARK DISK

JZ2109_SETTING: 35 = SET IN A MAT FOUNDATION OR CONCRETE SLAB OTHER THAN

JZ2109+WITH SETTING: PAVEMENT

JZ2109_SP_SET: SIGNAL LAMP BASE

JZ2109_STAMPING: N 92 1938

JZ2109_MARK LOGO: CGS
JZ2109_MAGNETIC: N = NO MAGNETIC MATERIAL
JZ2109_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
JZ2109+STABILITY: SURFACE MOTION

JZ2109
JZ2109 HISTORY - Date Condition Report By
JZ2109 HISTORY - 1938 MONUMENTED CGS
JZ2109 HISTORY - 1979 GOOD DOD
JZ2109 HISTORY - 19860730 GOOD NGS

JZ2109 STATION DESCRIPTION

JZ2109'DESCRIBED BY COAST AND GEODETIC SURVEY 1938
JZ2109'1.6 MI W FROM NORTH VERNON.
JZ2109'1.6 MILES WEST ALONG THE BALTIMORE AND OHIO RAILROAD FROM THE
JZ2109'STATION AT NORTH VERNON, JENNINGS COUNTY, ABOUT 1 MILE WEST OF
JZ2109'WHITCOMB, AT SIGNAL TOWER 73.8, IN THE TOP OF THE SOUTHEAST CORNER
JZ2109'OF THE SIGNAL BASE, 60 FEET NORTHWEST OF POLE 73/34, 30 FEET
JZ2109'EAST OF A DIRT-ROAD CROSSING, 9 FEET NORTH OF THE NORTH RAIL OF
JZ2109'THE MAIN TRACK, AND 11 FEET SOUTH OF THE SOUTH RAIL OF A SIDETRACK.
JZ2109'A STANDARD DISK, STAMPED N 92 1938.

JZ2109 STATION RECOVERY (1979)

JZ2109'RECOVERY NOTE BY US DEPARTMENT OF DEFENSE 1979
JZ2109'RECOVERED IN GOOD CONDITION.

JZ2109 STATION RECOVERY (1986)

JZ2109'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1986
JZ2109'FROM THE JUNCTION OF U.S. 50 AND STATE ROUTE 3 AND 7 IN NORTH
JZ2109'VERNON, GO NORTH ON HIGHWAY 3 AND 7 FOR 0.35 MILE (0.56 KM) TO A SIDE
JZ2109'ROAD LEFT, COUNTY ROAD 150 N. OR O AND M AVENUE, JUST AFTER CROSSING
JZ2109'BRIDGE OVER RAILROAD TRACKS. TURN LEFT AND GO WEST ON COUNTY ROAD
JZ2109'150 N FOR 1.2 MILES (1.9 KM) TO A SIDE ROAD LEFT, BROWNSTOWN ROAD.
JZ2109'TURN LEFT AND GO SOUTH FOR 0.05 MILE (0.08 KM) TO RAILROAD TRACKS AND
JZ2109'STATION ON LEFT BETWEEN THE TWO SETS OF TRACKS. LOCATED 35.0 FEET
JZ2109'(10.7 M) EAST FROM CENTER OF BROWNSTOWN ROAD, 8.5 FEET (2.6 M) SOUTH
JZ2109'FROM THE SOUTH RAIL OF THE NORTH SET OF TRACKS, 6.6 FEET (2.0 M)
JZ2109'NORTH FROM THE NORTH RAIL OF THE SOUTH SET OF TRACKS, 3.6 FEET (1.1
JZ2109'M) WEST FROM A SIGNAL LAMP POST AND 0.5 FEET (15.2 CM) WEST FROM A
JZ2109'CARSONITE WITNESS POST.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JZ2219 *****

JZ2219 CBN - This is a Cooperative Base Network Control Station.
JZ2219 DESIGNATION - H 271
JZ2219 PID - JZ2219
JZ2219 STATE/COUNTY- IN/BARTHOLOMEW
JZ2219 USGS QUAD - COLUMBUS (1993)

JZ2219 *CURRENT SURVEY CONTROL

JZ2219* NAD 83(2007)- 39 08 57.12407(N) 085 55 13.44609(W) ADJUSTED
JZ2219* NAVD 88 - 186.402 (meters) 611.55 (feet) ADJUSTED
JZ2219
JZ2219 EPOCH DATE - 2002.00
JZ2219 X - 352,368.038 (meters) COMP

4/28/2011

DATASHEETS

JZ2219 Y - -4,940,454.936 (meters) COMP
 JZ2219 Z - 4,005,272.308 (meters) COMP
 JZ2219 LAPLACE CORR- -2.68 (seconds) DEFLEC09
 JZ2219 ELLIP HEIGHT- 152.603 (meters) (02/10/07) ADJUSTED
 JZ2219 GEOID HEIGHT- -33.80 (meters) GEOID09
 JZ2219 DYNAMIC HT - 186.287 (meters) 611.18 (feet) COMP

JZ2219 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

Type	PID	Designation	North	East	Ellip

NETWORK	JZ2219 H 271		0.63	0.47	1.55

JZ2219 MODELED GRAV- 980,008.4 (mgal) NAVD 88

JZ2219

JZ2219 VERT ORDER - SECOND CLASS 0

JZ2219

JZ2219.The horizontal coordinates were established by GPS observations

JZ2219.and adjusted by the National Geodetic Survey in February 2007.

JZ2219

JZ2219.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

JZ2219.See National Readjustment for more information.

JZ2219.The horizontal coordinates are valid at the epoch date displayed above.

JZ2219.The epoch date for horizontal control is a decimal equivalence

JZ2219.of Year/Month/Day.

JZ2219

JZ2219.The orthometric height was determined by differential leveling and

JZ2219.adjusted in June 1991.

JZ2219

JZ2219.Photographs are available for this station.

JZ2219

JZ2219.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JZ2219

JZ2219.The Laplace correction was computed from DEFLEC09 derived deflections.

JZ2219

JZ2219.The ellipsoidal height was determined by GPS observations

JZ2219.and is referenced to NAD 83.

JZ2219

JZ2219.The geoid height was determined by GEOID09.

JZ2219

JZ2219.The dynamic height is computed by dividing the NAVD 88

JZ2219.geopotential number by the normal gravity value computed on the

JZ2219.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

JZ2219.degrees latitude (g = 980.6199 gals.).

JZ2219

JZ2219.The modeled gravity was interpolated from observed gravity values.

JZ2219

JZ2219;		North	East	Units	Scale	Factor	Converg.
JZ2219;SPC IN E	-	433,090.249	78,066.800	MT	0.99997259	-0 09 36.7	
JZ2219;SPC IN E	-	1,420,896.93	256,124.16	sFT	0.99997259	-0 09 36.7	
JZ2219;UTM 16	-	4,333,888.728	593,288.792	MT	0.99970716	+0 40 53.9	

JZ2219

JZ2219! - Elev Factor x Scale Factor = Combined Factor

JZ2219!SPC IN E - 0.99997606 x 0.99997259 = 0.99994865

JZ2219!UTM 16 - 0.99997606 x 0.99970716 = 0.99968323

JZ2219

JZ2219

SUPERSEDED SURVEY CONTROL

JZ2219

4/28/2011

DATASHEETS

JZ2219 NAD 83(1997)- 39 08 57.12423(N) 085 55 13.44599(W) AD() B
 JZ2219 ELLIP H (04/10/98) 152.624 (m) GP() 4 1
 JZ2219 NAVD 88 (04/10/98) 186.40 (m) 611.5 (f) LEVELING 3
 JZ2219 NGVD 29 (??/??/92) 186.524 (m) 611.95 (f) ADJ UNCH 2 0

JZ2219

JZ2219.Superseded values are not recommended for survey control.

JZ2219.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JZ2219.See file dsdata.txt to determine how the superseded data were derived.

JZ2219

JZ2219_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ9328833888(NAD 83)

JZ2219_MARKER: DB = BENCH MARK DISK

JZ2219_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JZ2219_SP_SET: SET IN TOP OF CONCRETE MONUMENT

JZ2219_STAMPING: H 271 1947

JZ2219_MARK LOGO: CGS

JZ2219_PROJECTION: FLUSH

JZ2219_MAGNETIC: N = NO MAGNETIC MATERIAL

JZ2219_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JZ2219+STABILITY: SURFACE MOTION

JZ2219_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JZ2219+SATELLITE: SATELLITE OBSERVATIONS - September 08, 2010

JZ2219

HISTORY	- Date	Condition	Report By
JZ2219 HISTORY	- 1947	MONUMENTED	CGS
JZ2219 HISTORY	- 19970819	GOOD	SEC
JZ2219 HISTORY	- 20010529	GOOD	WOOLPT
JZ2219 HISTORY	- 20100316	GOOD	AEROME
JZ2219 HISTORY	- 20100908	GOOD	INDIV

JZ2219

STATION DESCRIPTION

JZ2219

JZ2219'DESCRIBED BY COAST AND GEODETIC SURVEY 1947

JZ2219'4.2 MI S FROM COLUMBUS.

JZ2219'ABOUT 4.05 MILES SOUTH ALONG ALTERNATE U.S. HIGHWAY 31 FROM THE

JZ2219'COURT HOUSE AT COLUMBUS, THENCE ABOUT 0.1 MILE WEST ALONG A

JZ2219'BLACK TOP ROAD, THENCE ABOUT 100 YARDS SOUTH ALONG A BLACK TOP

JZ2219'ROAD RUNNING ALONG THE EAST SIDE OF THE COLUMBUS AIRPORT, AT

JZ2219'THE NORTHEAST CORNER OF THE FIELD, ABOUT 53 YARDS SOUTH OF THE

JZ2219'SOUTHEAST CORNER OF THE BETHEL BAPTIST CHURCH, 20 FEET WEST OF

JZ2219'THE CENTER LINE OF THE BLACK TOP ROAD, 7 FEET SOUTH OF THE

JZ2219'NORTHEAST FENCE CORNER POST, 1 FOOT EAST OF THE FENCE LINE, 2

JZ2219'FEET NORTH OF A WHITE WOODEN WITNESS POST, ABOUT LEVEL WITH THE

JZ2219'ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 5 INCHES.

JZ2219

STATION RECOVERY (1997)

JZ2219

JZ2219'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

JZ2219'STATION IS ABOUT 5.3 KILOMETERS (3.30 MI) SOUTH OF COLUMBUS AND 1.6

JZ2219'KILOMETERS (1.00 MI) NORTH OF WALESBORO. OWNERSHIP--BETHEL BAPTIST

JZ2219'CHURCH, 142 DEEVER ROAD, COLUMBUS IN 47201, PHONE 812-342-4005. TO

JZ2219'REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAYS 46 AND 11,

JZ2219'SOUTHWEST OF COLUMBUS, TURN SOUTH FROM STATE ROAD 46 ON TO STATE ROAD

JZ2219'11, ABOUT 5.3 KILOMETERS (3.30 MI) SOUTH TO DEEVER ROAD. TURN WEST ON

JZ2219'TO DEEVER ROAD, ABOUT 0.2 KILOMETERS (0.10 MI) WEST TO COUNTY ROAD 50

JZ2219'WEST. TURN SOUTH ON TO COUNTY ROAD 50 WEST, ABOUT 100 METERS (328.1

JZ2219'FT) SOUTH TO ENTRANCE OF BETHEL BAPTIST CHURCH CEMETERY, WEST OF

JZ2219'COUNTRY ROAD 50 WEST. THE STATION IS SOUTHWEST OF THE INTERSECTION OF

JZ2219'THE CEMETERY ENTRANCE AND COUNTY ROAD 50 WEST, 5.3 METERS (17.4 FT)
 JZ2219'WEST OF CENTER OF COUNTY ROAD 50 WEST, 13.8 METERS (45.3 FT) FROM
 JZ2219'NEAREST TELEPHONE POLE TO NORTHEAST, 8.6 METERS (28.2 FT)
 JZ2219'EAST-SOUTHEAST FROM SOUTHEAST CORNER OF WAGNER TOMBSTONE AND 8.2
 JZ2219'METERS (26.9 FT) NORTHEAST OF NORTHEAST CORNER OF SWEENEY TOMBSTONE.

JZ2219
 JZ2219 STATION RECOVERY (2001)
 JZ2219

JZ2219'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2001 (BJM)
 JZ2219'RECOVERED AS DESCRIBED.

JZ2219'
 JZ2219
 JZ2219 STATION RECOVERY (2010)
 JZ2219

JZ2219'RECOVERY NOTE BY AERO METRIC INC 2010
 JZ2219'RECOVERED IN GOOD CONDITION.

JZ2219
 JZ2219 STATION RECOVERY (2010)
 JZ2219

JZ2219'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2010 (ABC)
 JZ2219'MARK FOUND IN GOOD CONDITION AS DESCRIBED.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JZ2225 *****

JZ2225 CBN - This is a Cooperative Base Network Control Station.
 JZ2225 DESIGNATION - K 268
 JZ2225 PID - JZ2225
 JZ2225 STATE/COUNTY- IN/BARTHOLOMEW
 JZ2225 USGS QUAD - ELIZABETHTOWN (1993)

JZ2225
 JZ2225 *CURRENT SURVEY CONTROL

JZ2225* NAD 83(2007)- 39 13 26.47033(N) 085 50 24.88145(W) ADJUSTED
 JZ2225* NAVD 88 - 194.349 (meters) 637.63 (feet) ADJUSTED

JZ2225
 JZ2225 EPOCH DATE - 2002.00
 JZ2225 X - 358,899.122 (meters) COMP
 JZ2225 Y - -4,934,728.562 (meters) COMP
 JZ2225 Z - 4,011,715.516 (meters) COMP
 JZ2225 LAPLACE CORR- -2.33 (seconds) DEFLECO9
 JZ2225 ELLIP HEIGHT- 160.400 (meters) (02/10/07) ADJUSTED
 JZ2225 GEOID HEIGHT- -33.92 (meters) GEOID09
 JZ2225 DYNAMIC HT - 194.229 (meters) 637.23 (feet) COMP

JZ2225 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----
 JZ2225 Type PID Designation North East Ellip
 JZ2225 -----
 JZ2225 NETWORK JZ2225 K 268 0.73 0.51 1.84
 JZ2225 -----

JZ2225 MODELED GRAV- 980,008.0 (mgal) NAVD 88

JZ2225
 JZ2225 VERT ORDER - SECOND CLASS 0
 JZ2225

JZ2225.The horizontal coordinates were established by GPS observations
 JZ2225.and adjusted by the National Geodetic Survey in February 2007.

JZ2225
 JZ2225.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
 JZ2225.See National Readjustment for more information.

4/28/2011

DATASHEETS

JZ2225.The horizontal coordinates are valid at the epoch date displayed above.

JZ2225.The epoch date for horizontal control is a decimal equivalence

JZ2225.of Year/Month/Day.

JZ2225

JZ2225.The orthometric height was determined by differential leveling and

JZ2225.adjusted in June 1991.

JZ2225

JZ2225.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JZ2225

JZ2225.The Laplace correction was computed from DEFLEC09 derived deflections.

JZ2225

JZ2225.The ellipsoidal height was determined by GPS observations

JZ2225.and is referenced to NAD 83.

JZ2225

JZ2225.The geoid height was determined by GEOID09.

JZ2225

JZ2225.The dynamic height is computed by dividing the NAVD 88

JZ2225.geopotential number by the normal gravity value computed on the

JZ2225.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

JZ2225.degrees latitude (g = 980.6199 gals.).

JZ2225

JZ2225.The modeled gravity was interpolated from observed gravity values.

JZ2225

JZ2225;	North	East	Units	Scale	Factor	Converg.
JZ2225;SPC IN E	- 441,379.936	85,011.571	MT	0.99996943	-0 06 35.1	
JZ2225;SPC IN E	- 1,448,094.01	278,908.80	sFT	0.99996943	-0 06 35.1	
JZ2225;UTM 16	- 4,342,277.489	600,109.174	MT	0.99972340	+0 44 00.4	

JZ2225

JZ2225! Elev Factor x Scale Factor = Combined Factor

JZ2225!SPC IN E - 0.99997484 x 0.99996943 = 0.99994427

JZ2225!UTM 16 - 0.99997484 x 0.99972340 = 0.99969824

JZ2225

SUPERSEDED SURVEY CONTROL

JZ2225

JZ2225	NAD 83(1997)-	39 13 26.47053(N)	085 50 24.88135(W)	AD() B
JZ2225	ELLIP H (04/10/98)	160.415 (m)		GP() 4 1
JZ2225	NAVD 88 (04/10/98)	194.35 (m)	637.6 (f)	LEVELING 3
JZ2225	NGVD 29 (??/??/92)	194.472 (m)	638.03 (f)	ADJ UNCH 2 0

JZ2225

JZ2225.Superseded values are not recommended for survey control.

JZ2225.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JZ2225.See file dsdata.txt to determine how the superseded data were derived.

JZ2225

JZ2225_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SFJ0010942277(NAD 83)

JZ2225_MARKER: DB = BENCH MARK DISK

JZ2225_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JZ2225_SP_SET: SET IN TOP OF CONCRETE MONUMENT

JZ2225_STAMPING: K 268 1947

JZ2225_MARK LOGO: CGS

JZ2225_PROJECTION: FLUSH

JZ2225_MAGNETIC: N = NO MAGNETIC MATERIAL

JZ2225_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JZ2225+STABILITY: SURFACE MOTION

JZ2225_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JZ2225+SATELLITE: SATELLITE OBSERVATIONS - September 08, 2010

JZ2225

JZ2225 HISTORY - Date Condition Report By

4/28/2011

DATASHEETS

JZ2225	HISTORY	- 1947	MONUMENTED	CGS
JZ2225	HISTORY	- 19970819	GOOD	SEC
JZ2225	HISTORY	- 20010529	GOOD	WOOLPT
JZ2225	HISTORY	- 20100317	GOOD	AEROME
JZ2225	HISTORY	- 20100908	GOOD	INDIV

JZ2225
JZ2225
JZ2225

STATION DESCRIPTION

JZ2225'DESCRIBED BY COAST AND GEODETIC SURVEY 1947
 JZ2225'1.1 MI W FROM PETERSVILLE.
 JZ2225'ABOUT 1.1 MILE WEST ALONG STATE HIGHWAY 46 FROM THE CROSSROADS
 JZ2225'AT PETERSVILLE, ABOUT 35 YARDS NORTHEAST AND ACROSS THE HIGHWAY
 JZ2225'FROM A SINCLAIR SERVICE STATION AND STORE, AT THE JUNCTION WITH
 JZ2225'A FARM ROAD LEADING NORTH TO GEORGE ROBERTSONS FARM HOUSE, 30
 JZ2225'FEET NORTH OF THE CENTER LINE OF THE HIGHWAY, 24 FEET WEST OF THE
 JZ2225'CENTER LINE OF THE FARM ROAD, 8 FEET WEST OF A CONCRETE FENCE
 JZ2225'POST, 88 FEET EAST OF TELEPHONE POLE NUMBER 104, 1 FOOT SOUTH
 JZ2225'OF A FENCE LINE, 2 FEET EAST OF A WHITE WOODEN WITNESS POST,
 JZ2225'ABOUT LEVEL WITH THE HIGHWAY AND SET IN THE TOP OF A CONCRETE
 JZ2225'POST PROJECTING ABOUT 5 INCHES.

JZ2225

STATION RECOVERY (1997)

JZ2225
JZ2225

JZ2225'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)
 JZ2225'THE STATION IS LOCATED AT 5.95 KM (3.70 MI) WEST OF THE JUNCTION OF
 JZ2225'STATE ROAD 9 AND HIGHWAY 46, ALONG THE NORTH SIDE OF HIGHWAY 46, WEST
 JZ2225'OF A DRIVEWAY AND ACROSS FROM BUSHS MARKET. OWNERSHIP--STATE OF
 JZ2225'INDIANA. CONTACT IS HENRY ALDRIDGE, 317-232-6764, INDOT. IT IS 7.62
 JZ2225'METERS (25.00 FT) WEST OF THE CENTER OF A DRIVEWAY ENTRANCE TO
 JZ2225'PROPERTY OWNED BY TIM ECKLEMAN, 9.14 METERS (29.99 FT) NORTH OF
 JZ2225'HIGHWAY 46 CENTERLINE, 2.26 METERS (7.41 FT) WEST OF THE CENTER OF A
 JZ2225'CONCRETE GATE POST WEST OF THE DRIVEWAY, 26.76 METERS (87.80 FT) EAST
 JZ2225'OF A TELEPHONE POLE, FLUSH WITH GROUND AND ABOUT 6 INCHES BELOW THE
 JZ2225'LEVEL OF THE ROAD.

JZ2225

STATION RECOVERY (2001)

JZ2225
JZ2225

JZ2225'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2001 (BJM)
 JZ2225'RECOVERED AS DESCRIBED.

JZ2225'

JZ2225

JZ2225

STATION RECOVERY (2010)

JZ2225

JZ2225'RECOVERY NOTE BY AERO METRIC INC 2010

JZ2225'RECOVERED IN GOOD CONDITION.

JZ2225

JZ2225

STATION RECOVERY (2010)

JZ2225

JZ2225'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2010 (ABC)

JZ2225'MARK RECOVERED IN GOOD CONDITION AS DESCRIBED.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JZ2479 *****

JZ2479 DESIGNATION - M 238

JZ2479 PID - JZ2479

JZ2479 STATE/COUNTY- IN/MARION

JZ2479 USGS QUAD - ACTON (1981)

JZ2479

4/28/2011

DATASHEETS

*CURRENT SURVEY CONTROL

JZ2479

JZ2479

JZ2479*	NAD 83(1986)-	39 40 10.	(N)	085 57 07.	(W)	SCALED
JZ2479*	NAVD 88	-	242.656	(meters)	796.11	(feet) ADJUSTED

JZ2479

JZ2479 GEOID HEIGHT- -33.64 (meters) GEOID09

JZ2479 DYNAMIC HT - 242.518 (meters) 795.66 (feet) COMP

JZ2479 MODELED GRAV- 980,051.4 (mgal) NAVD 88

JZ2479

JZ2479 VERT ORDER - FIRST CLASS II

JZ2479

JZ2479.The horizontal coordinates were scaled from a topographic map and have JZ2479.an estimated accuracy of +/- 6 seconds.

JZ2479

JZ2479.The orthometric height was determined by differential leveling and JZ2479.adjusted in June 1991.

JZ2479

JZ2479.The geoid height was determined by GEOID09.

JZ2479

JZ2479.The dynamic height is computed by dividing the NAVD 88 JZ2479.geopotential number by the normal gravity value computed on the JZ2479.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 JZ2479.degrees latitude (g = 980.6199 gals.).

JZ2479

JZ2479.The modeled gravity was interpolated from observed gravity values.

JZ2479

JZ2479;	North	East	Units	Estimated Accuracy
JZ2479;SPC IN E	- 490,860.	75,520.	MT	(+/- 180 meters Scaled)

JZ2479

SUPERSEDED SURVEY CONTROL

JZ2479

JZ2479 NGVD 29 (??/??/92) 242.768 (m) 796.48 (f) ADJ UNCH 1 2

JZ2479

JZ2479.Superseded values are not recommended for survey control. JZ2479.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums. JZ2479.See file dsdata.txt to determine how the superseded data were derived.

JZ2479

JZ2479_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ898915(NAD 83)

JZ2479_MARKER: DB = BENCH MARK DISK

JZ2479_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JZ2479_SP_SET: CONCRETE POST

JZ2479_STAMPING: M 238 1947

JZ2479_MARK LOGO: CGS

JZ2479_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JZ2479+STABILITY: SURFACE MOTION

JZ2479_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR

JZ2479+SATELLITE: SATELLITE OBSERVATIONS - January 03, 2011

JZ2479

JZ2479 HISTORY - Date Condition Report By

JZ2479 HISTORY - 1947 MONUMENTED CGS

JZ2479 HISTORY - 1973 GOOD NGS

JZ2479 HISTORY - 1986 GOOD NGS

JZ2479 HISTORY - 20090610 GOOD INDIV

JZ2479 HISTORY - 20110103 GOOD INDNR

JZ2479

STATION DESCRIPTION

JZ2479

JZ2479

JZ2479'DESCRIBED BY COAST AND GEODETIC SURVEY 1947

JZ2479'1.8 MI NE FROM ACTON.

JZ2479'ABOUT 1.8 MILES NORTHEAST AND NORTH ALONG A ROAD FOLLOWING THE
JZ2479'COUNTY LINE NORTH TO CUMBERLAND FROM THE POST OFFICE AT ACTON,
JZ2479'IN THE SOUTHWEST QUARTER OF THE INTERSECTION WITH STATE HIGHWAY
JZ2479'29, 34 FEET SOUTHWEST OF THE CENTER LINE OF HIGHWAY 29, 14.5
JZ2479'FEET WEST OF THE CENTER LINE OF THE COUNTY LINE ROAD, 10 FEET
JZ2479'SOUTH OF A FENCE CORNER, 1.5 FEET EAST OF A FENCE LINE, 2 FEET
JZ2479'NORTH OF A WHITE WOODEN WITNESS POST, ABOUT 1 FOOT BELOW ROAD
JZ2479'LEVEL AND SET IN THE TOP OF A CONCRETE POST PROJECTING ABOUT
JZ2479'5 INCHES.

JZ2479

JZ2479 STATION RECOVERY (1973)

JZ2479

JZ2479'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973

JZ2479'RECOVERED IN GOOD CONDITION.

JZ2479

JZ2479 STATION RECOVERY (1986)

JZ2479

JZ2479'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1986

JZ2479'RECOVERED IN GOOD CONDITION.

JZ2479

JZ2479 STATION RECOVERY (2009)

JZ2479

JZ2479'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2009 (ARE)

JZ2479'MARK RECOVERED IN GOOD CONDITION. IN DANGER OF BEING DESTROYED DUE TO

JZ2479'CLOSE PROXIMITY TO EXISTING EDGE OF PAVEMENT

JZ2479

JZ2479 STATION RECOVERY (2011)

JZ2479

JZ2479'RECOVERY NOTE BY IN DEPT OF NAT RES 2011 (RWW)

JZ2479'ABOUT 1 FOOT SOUTHEAST OF RUSTY STEEL WITNESS POST.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

JZ2825 *****

JZ2825 CBN - This is a Cooperative Base Network Control Station.

JZ2825 PACS - This is a Primary Airport Control Station.

JZ2825 DESIGNATION - DECATUR AZ MK

JZ2825 PID - JZ2825

JZ2825 STATE/COUNTY- IN/DECATUR

JZ2825 USGS QUAD - FOREST HILL (1993)

JZ2825

JZ2825 *CURRENT SURVEY CONTROL

JZ2825

JZ2825* NAD 83(2007)- 39 19 20.59333(N) 085 31 20.25927(W) ADJUSTED

JZ2825* NAVD 88 - 275.767 (meters) 904.75 (feet) ADJUSTED

JZ2825

JZ2825 EPOCH DATE - 2002.00

JZ2825 X - 385,742.849 (meters) COMP

JZ2825 Y - -4,925,831.446 (meters) COMP

JZ2825 Z - 4,020,221.416 (meters) COMP

JZ2825 LAPLACE CORR- -0.03 (seconds) DEFLEC09

JZ2825 ELLIP HEIGHT- 241.636 (meters) (02/10/07) ADJUSTED

JZ2825 GEOID HEIGHT- -34.12 (meters) GEOID09

JZ2825 DYNAMIC HT - 275.595 (meters) 904.18 (feet) COMP

JZ2825

JZ2825 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

JZ2825 Type PID Designation North East Ellip

4/28/2011

DATASHEETS

JZ2825 -----
 JZ2825 NETWORK JZ2825 DECATUR AZ MK 0.53 0.37 1.45
 JZ2825 -----
 JZ2825 MODELED GRAV- 979,995.2 (mgal) NAVD 88
 JZ2825
 JZ2825 VERT ORDER - FIRST CLASS II
 JZ2825

JZ2825.This mark is at Greensburg-Decatur County Airport (I34)

JZ2825
 JZ2825.The horizontal coordinates were established by GPS observations
 JZ2825.and adjusted by the National Geodetic Survey in February 2007.
 JZ2825

JZ2825.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
 JZ2825.See National Readjustment for more information.

JZ2825.The horizontal coordinates are valid at the epoch date displayed above.
 JZ2825.The epoch date for horizontal control is a decimal equivalence
 JZ2825.of Year/Month/Day.

JZ2825
 JZ2825.The orthometric height was determined by differential leveling and
 JZ2825.adjusted in June 1991.

JZ2825
 JZ2825.Photographs are available for this station.

JZ2825
 JZ2825.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JZ2825
 JZ2825.The Laplace correction was computed from DEFLEC09 derived deflections.

JZ2825
 JZ2825.The ellipsoidal height was determined by GPS observations
 JZ2825.and is referenced to NAD 83.

JZ2825
 JZ2825.The geoid height was determined by GEOID09.

JZ2825
 JZ2825.The dynamic height is computed by dividing the NAVD 88
 JZ2825.geopotential number by the normal gravity value computed on the
 JZ2825.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 JZ2825.degrees latitude (g = 980.6199 gals.).

JZ2825
 JZ2825.The modeled gravity was interpolated from observed gravity values.

JZ2825

JZ2825;	North	East	Units	Scale	Factor	Converg.
JZ2825;SPC IN E	- 452,295.982	112,449.099	MT	0.99996857	+0 05 29.4	
JZ2825;SPC IN E	- 1,483,907.73	368,926.75	sFT	0.99996857	+0 05 29.4	
JZ2825;UTM 16	- 4,353,594.216	627,377.252	MT	0.99979977	+0 56 11.5	

JZ2825
 JZ2825!
 JZ2825!SPC IN E - Elev Factor x Scale Factor = Combined Factor
 JZ2825!SPC IN E - 0.99996209 x 0.99996857 = 0.99993066
 JZ2825!UTM 16 - 0.99996209 x 0.99979977 = 0.99976187

JZ2825

JZ2825:	Primary Azimuth Mark	Grid Az
JZ2825:SPC IN E	- DECATUR	358 56 36.4
JZ2825:UTM 16	- DECATUR	358 05 54.3

JZ2825

JZ2825	PID	Reference Object	Distance	Geod. Az
JZ2825				ddmmss.s
JZ2825	JZ2824	DECATUR	APPROX. 0.6 KM	3590205.8

JZ2825

JZ2825

SUPERSEDED SURVEY CONTROL

JZ2825

JZ2825 NAD 83(1997)- 39 19 20.59355(N) 085 31 20.25945(W) AD() B
 JZ2825 ELLIP H (04/10/98) 241.654 (m) GP() 4 1
 JZ2825 NAD 83(1995)- 39 19 20.59569(N) 085 31 20.26335(W) AD() 3
 JZ2825 NAD 83(1993)- 39 19 20.59734(N) 085 31 20.26707(W) AD() 3
 JZ2825 NAD 83(1986)- 39 19 20.59713(N) 085 31 20.26776(W) AD() 3
 JZ2825 NAD 27 - 39 19 20.41484(N) 085 31 20.37407(W) AD() 3
 JZ2825 NAVD 88 (04/10/98) 275.77 (m) 904.8 (f) LEVELING 3
 JZ2825 NGVD 29 (02/23/89) 275.96 (m) 905.4 (f) LEVELING 3

JZ2825

JZ2825.Superseded values are not recommended for survey control.

JZ2825.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JZ2825.See file dsdata.txt to determine how the superseded data were derived.

JZ2825

JZ2825_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SFJ2737753594(NAD 83)

JZ2825_MARKER: DZ = AZIMUTH MARK DISK

JZ2825_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JZ2825_SP_SET: CONCRETE POST

JZ2825_STAMPING: DECATUR 1986

JZ2825_MARK LOGO: NGS

JZ2825_PROJECTION: FLUSH

JZ2825_MAGNETIC: O = OTHER; SEE DESCRIPTION

JZ2825_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JZ2825+STABILITY: SURFACE MOTION

JZ2825_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JZ2825+SATELLITE: SATELLITE OBSERVATIONS - June 21, 2007

JZ2825

JZ2825	HISTORY	- Date	Condition	Report By
JZ2825	HISTORY	- 1986	MONUMENTED	NGS
JZ2825	HISTORY	- 1986	GOOD	NGS
JZ2825	HISTORY	- 19880705	GOOD	
JZ2825	HISTORY	- 19970516	GOOD	NGS
JZ2825	HISTORY	- 19980721	GOOD	WOOLPT
JZ2825	HISTORY	- 20070621	GOOD	JCLS

JZ2825

JZ2825

STATION DESCRIPTION

JZ2825

JZ2825'DESCRIBED BY NATIONAL GEODETIC SURVEY 1986

JZ2825'8.0 KM (5.0 MI) SW FROM GREENSBURG.

JZ2825'THE MARK IS ABOVE LEVEL WITH THE RUNWAY.

JZ2825'2.9 KM (1.8 MI) SOUTH ALONG STATE HIGHWAY 3 BUSINESS ROUTE FROM ITS
 JZ2825'JUNCTION WITH INTERSTATE HIGHWAY 74 IN GREENSBURG, THENCE 0.4 KM (0.25
 JZ2825'MI) WEST ALONG STATE HIGHWAY 46, THENCE 1.1 KM (0.7 MI) SOUTHWEST
 JZ2825'ALONG BROADWAY STREET, THENCE 2.5 KM (1.55 MI) WEST ALONG PARK ROAD,
 JZ2825'THENCE 0.1 KM (0.05 MI) SOUTH ALONG A PAVED ROAD, THENCE 0.2 KM (0.1
 JZ2825'MI) WEST ALONG THE ENTRANCE ROAD TO THE GREENSBURG-DECATUR COUNTY
 JZ2825'AIRPORT, THENCE 0.2 KM (0.1 MI) WEST ALONG THE TAXIWAY, THENCE 0.6 KM
 JZ2825'(0.35 MI) SOUTH ALONG RUNWAY 36, 16.5 M (54.1 FT) EAST OF THE CENTER
 JZ2825'OF THE RUNWAY, 7.9 M (25.9 FT) NORTH OF THE NORTH EDGE OF A TAXIWAY,
 JZ2825'AND 1.3 M (4.3 FT) EAST OF A BLUE RUNWAY LIGHT.

JZ2825'THE MARK IS 1.2 METERS E FROM A WITNESS POST

JZ2825

JZ2825

STATION RECOVERY (1986)

JZ2825

JZ2825'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1986

4/28/2011

DATASHEETS

JZ2825'THE STATION IS LOCATED ABOUT 43.5 KM (27.05 MI) NORTHEAST OF COLUMBUS,
JZ2825'40.2 KM (25.00 MI) NORTH OF NORTH VERNON, 4.0 KM (2.50 MI) SOUTH OF
JZ2825'GREENSBURG AND AT THE GREENSBURG-DECATUR COUNTY AIRPORT.
JZ2825'OWNERSHIP--CITY OF GREENSBURG, RT 10, BOX 92, GREENSBURG, IN 47240,
JZ2825'PHONE 812-663-3681. AIRPORT MANAGER IS TOM SCHOETLMER.
JZ2825'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 3 AND 46 IN
JZ2825'GREENSBURG, GO SOUTHEAST ON STATE HIGHWAY 46 FOR 0.2 KM (0.10 MI) TO
JZ2825'A ROAD RIGHT. TURN RIGHT, CROSSING OVER RAILROAD TRACKS, AND GO
JZ2825'SOUTH FOR 0.35 KM (0.20 MI) TO A GRAVELED DRIVEWAY TO AIRPORT. THIS
JZ2825'DRIVE IS JUST PAST A SMALL PARK. TURN RIGHT AND GO WEST FOR 0.2 KM
JZ2825'(0.10 MI) TO AIRPORT OFFICE ON THE LEFT AND A HANGAR. FROM THE OFFICE
JZ2825'AND HANGAR GO WEST ON TAXIWAY FOR 0.16 KM (0.10 MI) TO A RUNWAY.
JZ2825'TURN LEFT AND GO SOUTH ALONG THE RUNWAY FOR 0.64 KM (0.40 MI) TO END
JZ2825'OF RUNWAY AND THE STATION ON THE LEFT.
JZ2825'THE STATION IS A STANDARD NGS AZIMUTH MARK DISK STAMPED---DECATUR
JZ2825'1986---, SET IN THE TOP OF A 20 CM IN DIAMETER CONCRETE POST THAT IS
JZ2825'FLUSH WITH THE GROUND. LOCATED 16.46 M (54.0 FT) EAST FROM CENTER OF
JZ2825'RUNWAY 36, 8.20 M (26.9 FT) WEST FROM THE WEST EDGE OF A CULTIVATED
JZ2825'FIELD, 7.89 M (25.9 FT) NORTH FROM NORTH EDGE OF WARMUP AREA AT
JZ2825'RUNWAY 36 AND 1.28 M (4.2 FT) EAST FROM A BLUE MARKER LIGHT AND
JZ2825'FIBERGLASS WITNESS POST.
JZ2825'GPS SURVEY, FAA AIRPORTS, INDIANA.
JZ2825'DESCRIBED BY D.A. BOWLING.

JZ2825

JZ2825

STATION RECOVERY (1988)

JZ2825

JZ2825'RECOVERED 1988

JZ2825'RECOVERED IN GOOD CONDITION.

JZ2825

JZ2825

STATION RECOVERY (1997)

JZ2825

JZ2825'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (CSM)

JZ2825'THE STATION IS LOCATED ABOUT 38 KM (23.60 MI) NORTHEAST OF COLUMBUS, 7
JZ2825'KM (4.35 MI) SOUTHWEST OF GREENSBURG, AT THE GREENSBURG-DECATUR COUNTY
JZ2825'AIRPORT, NEAR THE SOUTH END OF THE AIRFIELD, IN THE NORTHWEST QUADRANT
JZ2825'OF THE JUNCTION OF RUNWAY END 36 AND THE RUNUP RAMP FOR THE RUNWAY
JZ2825'END, AND IN LINE WITH THE RUNWAY END LIGHTS. OWNERSHIP--CITY OF
JZ2825'GREENSBURG, 1434 EAST BASE ROAD, GREENSBURG IN 47240. AIRPORT MANAGER
JZ2825'IS TOM SCHOETTNER, PHONE 812-663-3681. FOR ASSISTANCE NEEDED GO TO
JZ2825'THE BOWLING ALLEY ADJACENT TO THE AIRPORT OFFICE. TO REACH FROM THE
JZ2825'JUNCTION OF STATE HIGHWAYS 3 AND 46 NEAR THE SOUTHWEST SIDE OF
JZ2825'GREENSBURG, GO SOUTHEAST ON HIGHWAY 46 FOR 0.2 KM (0.10 MI) TO A PAVED
JZ2825'ROAD RIGHT. TURN RIGHT, SOUTH ON THE ROAD, CROSSING A SET OF RAILROAD
JZ2825'TRACKS, FOR 0.35 KM (0.20 MI) TO THE PAVED ROAD TO THE AIRPORT ON THE
JZ2825'RIGHT, JUST SOUTH OF A SMALL PARK. TURN RIGHT, WEST ON THE PAVED ROAD
JZ2825'FOR 0.2 KM (0.10 MI) TO THE APRON AND THE AIRPORT OFFICE. CONTINUE
JZ2825'AHEAD, WEST ACROSS THE APRON AND ALONG A TAXI FOR 0.16 KM (0.10 MI) TO
JZ2825'THE JUNCTION OF THE RUNWAY. TURN LEFT, SOUTH ALONG THE RUNWAY FOR
JZ2825'0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS SET IN
JZ2825'THE TOP OF A 25 CM ROUND CONCRETE POST PROJECTING 5 CM ABOVE GROUND.
JZ2825'IT IS 10.3 M (33.8 FT) EAST OF THE EAST EDGE OF THE RUNWAY, 7.9 M
JZ2825'(25.9 FT) NORTH OF THE NORTH EDGE OF THE RUNUP RAMP AND 1.3 M (4.3 FT)
JZ2825'EAST OF THE EAST 1 OF 3 BLUE RUNWAY END LIGHTS. NOTE--THIS STATION IS
JZ2825'DESIGNATED AS THE PRIMARY AIRPORT CONTROL STATION.

JZ2825

JZ2825

STATION RECOVERY (1998)

JZ2825

JZ2825'RECOVERY NOTE BY WOOLPERT CONSULTANTS 1998 (BBS)

JZ2825'RECOVERED AS DESCRIBED WOOLPERT LLP 1998 (BBS).

JZ2825

JZ2825

STATION RECOVERY (2007)

JZ2825

JZ2825'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2007

JZ2825'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

KA0010 *****

KA0010 DESIGNATION - X 13

KA0010 PID - KA0010

KA0010 STATE/COUNTY- IN/JOHNSON

KA0010 USGS QUAD - MOORESVILLE EAST (1980)

KA0010

KA0010 *CURRENT SURVEY CONTROL

KA0010

KA0010* NAD 83(1986)- 39 33 58.52 (N) 086 15 10.90 (W) HD_HELD1

KA0010* NAVD 88 - 209.074 (meters) 685.94 (feet) ADJUSTED

KA0010

KA0010 GEOID HEIGHT- -32.94 (meters) GEOID09

KA0010 DYNAMIC HT - 208.961 (meters) 685.57 (feet) COMP

KA0010 MODELED GRAV- 980,082.0 (mgal) NAVD 88

KA0010

KA0010 VERT ORDER - FIRST CLASS II

KA0010

KA0010.The horizontal coordinates were established by differentially corrected hand held GPS obs and have an estimated accuracy of +/- 3 meters.

KA0010

KA0010.The orthometric height was determined by differential leveling and adjusted in June 1991.

KA0010

KA0010.The geoid height was determined by GEOID09.

KA0010

KA0010.The dynamic height is computed by dividing the NAVD 88

KA0010.geopotential number by the normal gravity value computed on the

KA0010.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

KA0010.degrees latitude (g = 980.6199 gals.).

KA0010

KA0010.The modeled gravity was interpolated from observed gravity values.

KA0010

KA0010; North East Units Estimated Accuracy

KA0010;SPC IN E - 479,524.6 49,614.5 MT (+/- 3 meters HH1 GPS)

KA0010

KA0010 SUPERSEDED SURVEY CONTROL

KA0010

KA0010 NGVD 29 (??/??/92) 209.206 (m) 686.37 (f) ADJ UNCH 1 2

KA0010

KA0010.Superseded values are not recommended for survey control.

KA0010.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

KA0010.See file dsdata.txt to determine how the superseded data were derived.

KA0010

KA0010 _U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ6416379884(NAD 83)

KA0010 _MARKER: DB = BENCH MARK DISK

KA0010 _SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

KA0010 _SP_SET: SET IN TOP OF CONCRETE MONUMENT

KA0010 _STAMPING: 686.370 X 13 1930

KA0010 _STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

KA0010+STABILITY: SURFACE MOTION

KA0010

KA0010	HISTORY	- Date	Condition	Report By
KA0010	HISTORY	- 1930	MONUMENTED	CGS
KA0010	HISTORY	- 1946	GOOD	NGS
KA0010	HISTORY	- 1985	GOOD	INDNR

KA0010

KA0010

STATION DESCRIPTION

KA0010

KA0010'DESCRIBED BY NATIONAL GEODETIC SURVEY 1946

KA0010'1.2 MI N FROM WAVERLY.

KA0010'IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM
 KA0010'THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY,
 KA0010'125 YARDS NORTH OF THE MORGAN-JOHNSON COUNTY LINE, 26 FEET WEST
 KA0010'OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST
 KA0010'RIGHT-OF-WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS
 KA0010'POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK,
 KA0010'STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST
 KA0010'PROJECTING 7 INCHES ABOVE GROUND.

KA0010

KA0010

STATION RECOVERY (1985)

KA0010

KA0010'RECOVERY NOTE BY IN DEPT OF NAT RES 1985

KA0010'NEW DESC- AST THE INTERSECTION OF NEW STATE ROAD 144 AND OLD STATE
 KA0010'ROAD 37, IN THE SOUTHWEST QUARTER OF THE INTERSECTION, WITNESS POST
 KA0010'IS GONE RIGHT-OF-WAY FENCE IS GONE, ALL OTHER INFORMATION APPEARS TO
 KA0010'BE CORRECT.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

KA0159 *****

KA0159 CBN - This is a Cooperative Base Network Control Station.
 KA0159 DESIGNATION - C 64
 KA0159 PID - KA0159
 KA0159 STATE/COUNTY- IN/MORGAN
 KA0159 USGS QUAD - MOORESVILLE EAST (1980)

KA0159

KA0159

*CURRENT SURVEY CONTROL

KA0159

KA0159*	NAD 83(2007)-	39 37 11.68683(N)	086 21 43.96799(W)	ADJUSTED
KA0159*	NAVD 88	- 205.495 (meters)	674.19 (feet)	ADJUSTED

KA0159

KA0159	EPOCH DATE	-	2002.00	
KA0159	X	-	312,158.732 (meters)	COMP
KA0159	Y	-	-4,909,946.670 (meters)	COMP
KA0159	Z	-	4,045,677.733 (meters)	COMP
KA0159	LAPLACE CORR-		-1.39 (seconds)	DEFLEC09
KA0159	ELLIP HEIGHT-		172.609 (meters)	(02/10/07) ADJUSTED
KA0159	GEOID HEIGHT-		-32.89 (meters)	GEOID09
KA0159	DYNAMIC HT	-	205.385 (meters)	673.83 (feet) COMP

KA0159

KA0159 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

KA0159	Type	PID	Designation	North	East	Ellip
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KA0159	NETWORK	KA0159 C 64		1.06	0.69	2.47
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KA0159

KA0159	MODELED GRAV-	980,084.4 (mgal)				NAVD 88
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KA0159

KA0159

KA0159 VERT ORDER - SECOND CLASS 0

KA0159

KA0159.The horizontal coordinates were established by GPS observations
KA0159.and adjusted by the National Geodetic Survey in February 2007.

KA0159

KA0159.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

KA0159.See National Readjustment for more information.

KA0159.The horizontal coordinates are valid at the epoch date displayed above.

KA0159.The epoch date for horizontal control is a decimal equivalence

KA0159.of Year/Month/Day.

KA0159

KA0159.The orthometric height was determined by differential leveling and

KA0159.adjusted in June 1991.

KA0159

KA0159.The X, Y, and Z were computed from the position and the ellipsoidal ht.

KA0159

KA0159.The Laplace correction was computed from DEFLEC09 derived deflections.

KA0159

KA0159.The ellipsoidal height was determined by GPS observations

KA0159.and is referenced to NAD 83.

KA0159

KA0159.The geoid height was determined by GEOID09.

KA0159

KA0159.The dynamic height is computed by dividing the NAVD 88

KA0159.geopotential number by the normal gravity value computed on the

KA0159.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

KA0159.degrees latitude (g = 980.6199 gals.).

KA0159

KA0159.The modeled gravity was interpolated from observed gravity values.

KA0159

KA0159;

	North	East	Units	Scale	Factor	Converg.
KA0159;SPC IN W	- 485,566.091	961,917.524	MT	1.00001385	+0 27	35.5
KA0159;SPC IN W	- 1,593,061.42	3,155,891.08	sFT	1.00001385	+0 27	35.5
KA0159;UTM 16	- 4,385,766.963	554,742.135	MT	0.99963689	+0 24	24.2

KA0159

KA0159!
- Elev Factor x Scale Factor = Combined Factor

KA0159!SPC IN W - 0.99997292 x 1.00001385 = 0.99998677

KA0159!UTM 16 - 0.99997292 x 0.99963689 = 0.99960982

KA0159

KA0159 SUPERSEDED SURVEY CONTROL

KA0159

KA0159 NAD 83(1997)- 39 37 11.68702(N) 086 21 43.96801(W) AD() B

KA0159 ELLIP H (04/10/98) 172.624 (m) GP() 4 1

KA0159 NAD 83(1986)- 39 37 11.68568(N) 086 21 43.97959(W) AD() 3

KA0159 NAD 27 - 39 37 11.52382(N) 086 21 44.00563(W) AD() 3

KA0159 NAVD 88 (04/10/98) 205.50 (m) 674.2 (f) LEVELING 3

KA0159 NGVD 29 (??/??/92) 205.624 (m) 674.62 (f) ADJ UNCH 2 0

KA0159

KA0159.Superseded values are not recommended for survey control.

KA0159.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

KA0159.See file dsdata.txt to determine how the superseded data were derived.

KA0159

KA0159_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ5474285766(NAD 83)

KA0159_MARKER: DB = BENCH MARK DISK

KA0159_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

KA0159_SP_SET: CONCRETE POST

KA0159_STAMPING: C 64 1946

KA0159_MARK LOGO: CGS

KA0159_MAGNETIC: N = NO MAGNETIC MATERIAL
 KA0159_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 KA0159+STABILITY: SURFACE MOTION
 KA0159_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 KA0159+SATELLITE: SATELLITE OBSERVATIONS - February 01, 2001

KA0159

KA0159	HISTORY	- Date	Condition	Report By
KA0159	HISTORY	- 1946	MONUMENTED	CGS
KA0159	HISTORY	- 1954	GOOD	NGS
KA0159	HISTORY	- 19880615	GOOD	NGS
KA0159	HISTORY	- 19901008	GOOD	NGS
KA0159	HISTORY	- 19970818	GOOD	SEC
KA0159	HISTORY	- 20010201	GOOD	INDNR

KA0159

KA0159

STATION DESCRIPTION

KA0159

KA0159'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

KA0159'1 MI NE FROM MOORESVILLE.

KA0159'ABOUT 1.05 MILE NORTHEAST ALONG STATE HIGHWAY 67 FROM THE MUNICIPAL
 KA0159'BUILDING AT MOORESVILLE, ABOUT 150 YARDS NORTHEAST OF A PHILLIPS
 KA0159'66 SERVICE STATION AND THE JUNCTION WITH A ROAD LEADING SOUTH, 25
 KA0159'FEET SOUTHEAST OF THE CENTER LINE OF THE HIGHWAY, 3.5 FEET SOUTHWEST
 KA0159'OF A FENCE CORNER, 6 FEET NORTHEAST OF A POWER LINE POLE, 2 FEET
 KA0159'NORTHWEST OF A WHITE WOODEN WITNESS POST, IN LINE WITH THE
 KA0159'SOUTHEAST RIGHT-OF-WAY FENCE LINE AND ABOUT 1 FOOT LOWER THAN
 KA0159'HIGHWAY LEVEL. A STANDARD DISK, STAMPED C 64 1946 AND SET IN THE
 KA0159'TOP OF A CONCRETE POST PROJECTING 5 INCHES ABOVE GROUND.

KA0159

KA0159

STATION RECOVERY (1954)

KA0159

KA0159'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1954

KA0159'RECOVERED IN GOOD CONDITION.

KA0159

KA0159

STATION RECOVERY (1988)

KA0159

KA0159'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1988

KA0159'THE STATION IS LOCATED ABOUT 24.1 KM (15.00 MI) SOUTHWEST OF
 KA0159'INDIANAPOLIS, 13.7 KM (8.50 MI) SOUTHWEST FROM INTERSTATE HIGHWAY
 KA0159'465, 1.6 KM (1.00 MI) NORTHEAST OF MOORESVILLE AND ON HIGHWAY
 KA0159'RIGHT-OF-WAY. OWNERSHIP--INDIANA DEPARTMENT OF HIGHWAYS, 100 NORTH
 KA0159'SENATE AVENUE, ROOM 1101, STATE OFFICE BUILDING, INDIANAPOLIS, IN
 KA0159'46204, PHONE 317-232-5533.

KA0159'TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 465 AND
 KA0159'STATE HIGHWAY 67 IN SOUTHWEST INDIANAPOLIS, GO SOUTHWEST ON STATE
 KA0159'HIGHWAY 67 FOR 13.4 KM (8.35 MI) TO A STOP LIGHT AT THE JUNCTION OF
 KA0159'OLD STATE HIGHWAY 67. TURN RIGHT AND GO SOUTHWEST FOR 1.2 KM
 KA0159'(0.75 MI) TO TATE HIGHWAY 67. TURN RIGHT AND GO SOUTHWEST FOR 1.2 KM
 KA0159'(0.75 MI) TO THE MARK ON THE LEFT.

KA0159'THE STATION IS A STANDARD CGS BENCH MARK DISK STAMPED---C 64 1946---,
 KA0159'SET IN THE TOP OF A SQUARE CONCRETE POST THAT PROJECTS 5 INCHES ABOVE
 KA0159'THE GROUND. LOCATED 27.4 M (89.9 FT) SOUTHWEST FROM CENTER OF
 KA0159'DRIVEWAY LEADING TO AMBULANCE PARKING LOT, 7.6 M (24.9 FT) SOUTHEAST
 KA0159'FROM CENTER OF HIGHWAY, 2.6 M (8.5 FT) SOUTHWEST FROM THE BASE OF THE
 KA0159'NORTH ONE OF THREE GUY WIRES FOR POWERPOLE, 0.2 M (0.7 FT) NORTHWEST
 KA0159'FROM A WITNESS POST AND ABOUT 137 M (449.5 FT) NORTH EAST OF THE
 KA0159'INSIDE SCOOP DRIVE IN.

KA0159'GPS SURVEY, FAA AIRPORTS, INDIANA.

KA0159'DESCRIBED BY D.L. ADAMS.

KA0159

KA0159

STATION RECOVERY (1990)

KA0159

KA0159'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990

KA0159'THE STATION IS LOCATED ABOUT 24.1 KM (15.0 MI) SOUTHWEST OF
KA0159'INDIANAPOLIS, 13.0 KM (8.1 MI) SOUTHWEST OF INTERSTATE 465, 1.6 KM
KA0159'(1.0 MI) NORTHEAST OF MOORESVILLE AND ON THE SOUTHEAST SIDE OF OLD
KA0159'HIGHWAY 67. OWNERSHIP--INDIANA DEPARTMENT OF HIGHWAYS, 100 NORTH
KA0159'SENATE AVENUE, ROOM 1101, STATE OFFICE BUILDING, INDIANAPOLIS, IN
KA0159'46204, PHONE 317-232-5533.

KA0159'TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 465 AND HIGHWAY
KA0159'67 (EXIT 8 KENTUCKY AVENUE), ON THE SOUTHWEST SIDE OF INDIANAPOLIS,
KA0159'GO SOUTH ON STATE HIGHWAY 67 FOR 11.82 KM (7.34 MI) TO A STOP LIGHT
KA0159'WITH THE MOORESVILLE CITY WELCOME SIGN ON THE RIGHT AND THE JUNCTION
KA0159'OF OLD HIGHWAY 67 (NOTE-NO ROAD SIGN), TURN RIGHT, WEST-SOUTHWEST, ON
KA0159'OLD HIGHWAY 67 FOR 1.20 KM (0.75 MI) TO THE STATION ON THE LEFT IN A
KA0159'GRASSY AREA BETWEEN THE ENTRANCE DRIVE OF THE BROWN TOWNSHIP LIFE
KA0159'STAR AMBULANCE BUILDING AND THE EXIT DRIVE OF THE INSIDE SCOOP DRIVE
KA0159'INN RESTAURANT, SOUTH AND ACROSS THE HIGHWAY FROM THE ENTRANCE DRIVE
KA0159'OF THE NP NICE PARK PRODUCTS INC.

KA0159'THE STATION IS LOCATED 24.8 M (81.4 FT) WEST OF THE NORTHWEST CORNER OF
KA0159'THE AMBULANCE BUILDING, 18.6 M (61.0 FT) NORTHEAST OF THE CENTER OF
KA0159'THE EXIT DRIVE OF THE INSIDE SCOOP DRIVE INN RESTAURANT, 6.25 M
KA0159'(20.51 FT) SOUTHEAST OF THE CENTER OF THE HIGHWAY, 0.2 M (0.7 FT)
KA0159'NORTHWEST OF A FIBERGLASS WITNESS POST AND PROJECTING ABOUT 5-INCHES
KA0159'ABOVE THE GROUND.

KA0159

KA0159

STATION RECOVERY (1997)

KA0159

KA0159'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

KA0159'THE STATION IS 15 MILES (24.1 KM) SOUTHWEST OF INDIANAPOLIS, 8.1 MILES
KA0159'(13.0 KM) SOUTHWEST OF INTERSTATE 465 AND 1 MILE (1.6 KM) NORTHEAST OF
KA0159'MOORESVILLE. TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE
KA0159'465 AND STATE HIGHWAY 67 ON THE SOUTHWEST SIDE OF INDIANAPOLIS, GO
KA0159'SOUTHWESTERLY ON STATE HIGHWAY 67 FOR 7.1 MILES (11.4 KM) TO A TRAFFIC
KA0159'LIGHT AT A CROSS ROAD (OLD HIGHWAY 67), TURN RIGHT AND GO WESTERLY
KA0159'ALONG OLD HIGHWAY 67 FOR 0.7 MILES (1.1 KM) TO THE STATION ON LEFT, IN
KA0159'THE RIGHT-OF-WAY OF OLD HIGHWAY 67. OWNERSHIP--INDIANA DEPARTMENT OF
KA0159'TRANSPORTATION, 100 N. SENATE AVENUE, INDIANAPOLIS IN 46204-2249,
KA0159'HENRY ALDRIDGE, 317-232-6764, IN A GRASSY AREA BETWEEN THE ENTRANCE OF
KA0159'AN AMBULANCE BUILDING AND THE EXITS OF A RESTAURANT. THE STATION IS
KA0159'SET IN A ROUND CONCRETE MONUMENT. IT IS 24.80 METERS (81.36 FT) WEST
KA0159'OF THE NORTHWEST CORNER OF THE AMBULANCE BUILDING, 18.60 METERS (61.02
KA0159'FT) NORTHEAST OF AN EXIT DRIVE FROM RESTAURANT, 7.62 METERS (25.00 FT)
KA0159'SOUTHEAST OF CENTERLINE OF OLD HIGHWAY 67 AND 0.22 METERS (0.72 FT)
KA0159'NORTHWEST OF FIBERGLASS WITNESS POST.

KA0159

KA0159

STATION RECOVERY (2001)

KA0159

KA0159'RECOVERY NOTE BY IN DEPT OF NAT RES 2001 (RWW)

KA0159'AMBULANCE BUILDING IS THE BROWN TOWNSHIP ADMINISTRATIVE OFFICE WHICH
KA0159'HOSES EMS AND AMBULANCE. RESTURANT IS THE FRATERNAL ORDER OF EAGLES
KA0159'LODGE. FIBERGLASS POST IS GONE.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

KA0314 *****

KA0314 CBN - This is a Cooperative Base Network Control Station.

4/28/2011

DATASHEETS

KA0314 DESIGNATION - T 76
KA0314 PID - KA0314
KA0314 STATE/COUNTY- IN/MORGAN
KA0314 USGS QUAD - MARTINSVILLE (1993)

KA0314
KA0314
KA0314

*CURRENT SURVEY CONTROL

KA0314* NAD 83(2007)- 39 29 13.07662(N) 086 26 33.39837(W) ADJUSTED
KA0314* NAVD 88 - 187.869 (meters) 616.37 (feet) ADJUSTED

KA0314

KA0314 EPOCH DATE - 2002.00
KA0314 X - 305,851.197 (meters) COMP
KA0314 Y - -4,919,747.965 (meters) COMP
KA0314 Z - 4,034,285.346 (meters) COMP
KA0314 LAPLACE CORR- -0.29 (seconds) DEFLEC09
KA0314 ELLIP HEIGHT- 155.010 (meters) (02/10/07) ADJUSTED
KA0314 GEOID HEIGHT- -32.88 (meters) GEOID09
KA0314 DYNAMIC HT - 187.764 (meters) 616.02 (feet) COMP

KA0314

KA0314 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

KA0314 Type PID Designation North East Ellip

KA0314 -----

KA0314 NETWORK KA0314 T 76 1.08 0.69 2.51

KA0314 -----

KA0314 MODELED GRAV- 980,064.2 (mgal) NAVD 88

KA0314

KA0314 VERT ORDER - SECOND CLASS 0

KA0314

KA0314.The horizontal coordinates were established by GPS observations

KA0314.and adjusted by the National Geodetic Survey in February 2007.

KA0314

KA0314.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

KA0314.See National Readjustment for more information.

KA0314.The horizontal coordinates are valid at the epoch date displayed above.

KA0314.The epoch date for horizontal control is a decimal equivalence

KA0314.of Year/Month/Day.

KA0314

KA0314.The orthometric height was determined by differential leveling and

KA0314.adjusted in June 1991.

KA0314

KA0314.The X, Y, and Z were computed from the position and the ellipsoidal ht.

KA0314

KA0314.The Laplace correction was computed from DEFLEC09 derived deflections.

KA0314

KA0314.The ellipsoidal height was determined by GPS observations

KA0314.and is referenced to NAD 83.

KA0314

KA0314.The geoid height was determined by GEOID09.

KA0314

KA0314.The dynamic height is computed by dividing the NAVD 88

KA0314.geopotential number by the normal gravity value computed on the

KA0314.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

KA0314.degrees latitude (g = 980.6199 gals.).

KA0314

KA0314.The modeled gravity was interpolated from observed gravity values.

KA0314

KA0314; North East Units Scale Factor Converg.

4/28/2011

DATASHEETS

KA0314;SPC IN W - 470,753.475 955,119.425 MT 1.00000406 +0 24 26.8
 KA0314;SPC IN W - 1,544,463.69 3,133,587.65 sFT 1.00000406 +0 24 26.8
 KA0314;UTM 16 - 4,370,966.222 547,932.882 MT 0.99962829 +0 21 16.0
 KA0314
 KA0314! - Elev Factor x Scale Factor = Combined Factor
 KA0314!SPC IN W - 0.99997568 x 1.00000406 = 0.99997974
 KA0314!UTM 16 - 0.99997568 x 0.99962829 = 0.99960398

SUPERSEDED SURVEY CONTROL

KA0314
 KA0314 NAD 83(1997)- 39 29 13.07681(N) 086 26 33.39839(W) AD() B
 KA0314 ELLIP H (04/10/98) 155.024 (m) GP() 4 1
 KA0314 NAVD 88 (04/10/98) 187.87 (m) 616.4 (f) LEVELING 3
 KA0314 NGVD 29 (??/??/92) 187.993 (m) 616.77 (f) ADJ UNCH 2 0

KA0314.Superseded values are not recommended for survey control.
 KA0314.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 KA0314.See file dsdata.txt to determine how the superseded data were derived.

KA0314
 KA0314_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ4793270966(NAD 83)
 KA0314_MARKER: DB = BENCH MARK DISK
 KA0314_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 KA0314_SP_SET: SET IN TOP OF CONCRETE MONUMENT
 KA0314_STAMPING: T 76 1946
 KA0314_MARK LOGO: CGS
 KA0314_MAGNETIC: N = NO MAGNETIC MATERIAL
 KA0314_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 KA0314+STABILITY: SURFACE MOTION
 KA0314_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 KA0314+SATELLITE: SATELLITE OBSERVATIONS - April 15, 2002

KA0314
 KA0314 HISTORY - Date Condition Report By
 KA0314 HISTORY - 1946 MONUMENTED CGS
 KA0314 HISTORY - 1966 GOOD LOCENG
 KA0314 HISTORY - 19970818 GOOD SEC
 KA0314 HISTORY - 20020415 GOOD INDNR

STATION DESCRIPTION

KA0314
 KA0314'DESCRIBED BY COAST AND GEODETIC SURVEY 1946
 KA0314'5.5 MI N FROM MARTINSVILLE.
 KA0314'ABOUT 5.5 MILES NORTH ALONG STATE HIGHWAY 39 FROM THE COUNTY
 KA0314'COURT HOUSE AT MARTINSVILLE, 106 FEET NORTHEAST OF THE NORTHEAST
 KA0314'CORNER OF THE W.G. SELBY FARM HOUSE, 0.4 MILE NORTH OF THE
 KA0314'JUNCTION WITH STATE HIGHWAY 67, 19 FEET WEST OF THE CENTER LINE
 KA0314'OF THE HIGHWAY, 15 FEET NORTH OF THE CENTER LINE OF THE DRIVEWAY
 KA0314'TO THE HOUSE, 4.5 FEET NORTH OF A FENCE CORNER, 1 1/2 FEET SOUTH
 KA0314'OF A WHITE WOODEN WITNESS POST AND ABOUT LEVEL WITH THE HIGHWAY.
 KA0314'A STANDARD DISK, STAMPED T 76 1946 AND SET IN THE TOP OF A
 KA0314'CONCRETE POST PROJECTING 5 INCHES ABOVE GROUND. NOTE-- CHANGE
 KA0314'W.G. SELBY TO A. DILLEY POST NOW PROJECTS 2 INCHES ABOVE GROUND.

STATION RECOVERY (1966)

KA0314
 KA0314'RECOVERY NOTE BY LOCAL ENGINEER (INDIVIDUAL OR FIRM) 1966
 KA0314'RECOVERED IN GOOD CONDITION.
 KA0314

4/28/2011

DATASHEETS

STATION RECOVERY (1997)

KA0314

KA0314

KA0314'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)
KA0314'THE STATION IS LOCATED 5.5 MILES (8.9 KM) NORTHWEST OF MARTINSVILLE
KA0314'AND 0.4 MILES (0.6 KM) NORTH OF THE JUNCTION OF STATE HIGHWAY 39 AND
KA0314'STATE HIGHWAY 67. TO REACH THE STATION FROM THE INTERSECTION OF STATE
KA0314'HIGHWAY 67 AND STATE HIGHWAY 39 NORTH, GO 0.4 MILES (0.6 KM) NORTH
KA0314'ALONG STATE HIGHWAY 39 TO THE STATION ON LEFT, IN THE RIGHT-OF-WAY OF
KA0314'STATE HIGHWAY 39. OWNERSHIP--INDIANA DEPARTMENT OF TRANSPORTATION,
KA0314'100 N. SENATE AVE, ROOM 1101, STATE OFFICE BUILDING, INDIANAPOLIS IN
KA0314'46204, HENRY ALDRIDGE, PHONE 317-232-6764. THE STATION IS SET IN A
KA0314'ROUND CONCRETE MONUMENT PROJECTING 6 CM ABOVE GROUND. IT IS 34.08
KA0314'METERS (111.81 FT) NORTHEAST OF SOUTHEAST CORNER OF BRICK HOUSE OWNED
KA0314'BY WENDELL DILLEY, 5.28 METERS (17.32 FT) WEST OF THE CENTERLINE OF
KA0314'STATE HIGHWAY 39, 4.11 METERS (13.48 FT) NORTH OF THE CENTERLINE OF
KA0314'GRAVEL DRIVE TO DILLEY RESIDENCE AND 1.55 METERS (5.09 FT) SOUTH OF
KA0314'THE SOUTH FACE OF A WOODEN FENCE POST.

KA0314

STATION RECOVERY (2002)

KA0314

KA0314

KA0314'RECOVERY NOTE BY IN DEPT OF NAT RES 2002 (RWW)

KA0314'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

KA0332 *****

KA0332 DESIGNATION - L 53

KA0332 PID - KA0332

KA0332 STATE/COUNTY- IN/BROWN

KA0332 USGS QUAD - NASHVILLE (1994)

KA0332

*CURRENT SURVEY CONTROL

KA0332

KA0332* NAD 83(1986)- 39 11 31.54 (N) 086 11 45.35 (W) HD_HELD1

KA0332* NAVD 88 - 188.255 (meters) 617.63 (feet) ADJUSTED

KA0332

KA0332 GEOID HEIGHT- -33.37 (meters) GEOID09

KA0332 DYNAMIC HT - 188.141 (meters) 617.26 (feet) COMP

KA0332 MODELED GRAV- 980,014.6 (mgal) NAVD 88

KA0332

KA0332 VERT ORDER - SECOND CLASS 0

KA0332

KA0332.The horizontal coordinates were established by differentially corrected
KA0332.hand held GPS obs and have an estimated accuracy of +/- 3 meters.

KA0332

KA0332.The orthometric height was determined by differential leveling and
KA0332.adjusted in June 1991.

KA0332

KA0332.The geoid height was determined by GEOID09.

KA0332

KA0332.The dynamic height is computed by dividing the NAVD 88

KA0332.geopotential number by the normal gravity value computed on the

KA0332.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

KA0332.degrees latitude (g = 980.6199 gals.).

KA0332

KA0332.The modeled gravity was interpolated from observed gravity values.

KA0332

KA0332; North East Units Estimated Accuracy

KA0332;SPC IN E - 437,954.8 54,277.4 MT (+/- 3 meters HH1 GPS)

KA0332

KA0332

SUPERSEDED SURVEY CONTROL

KA0332

KA0332 NGVD 29 (??/??/92) 188.376 (m) 618.03 (f) ADJ UNCH 2 0

KA0332

KA0332.Superseded values are not recommended for survey control.

KA0332.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

KA0332.See file dsdata.txt to determine how the superseded data were derived.

KA0332

KA0332_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ6943738401(NAD 83)

KA0332_MARKER: DB = BENCH MARK DISK

KA0332_SETTING: 36 = SET IN A MASSIVE STRUCTURE

KA0332_SP_SET: BRIDGE

KA0332_STAMPING: L 53 1934

KA0332_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

KA0332

KA0332 HISTORY - Date Condition Report By

KA0332 HISTORY - 1934 MONUMENTED CGS

KA0332 HISTORY - 1982 GOOD USE

KA0332

STATION DESCRIPTION

KA0332

KA0332'DESCRIBED BY COAST AND GEODETIC SURVEY 1934

KA0332'3.3 MI E FROM NASHVILLE.

KA0332'3.3 MILES EAST ALONG STATE HIGHWAY 46 FROM THE COUNTY COURTHOUSE

KA0332'AT NASHVILLE, BROWN COUNTY, 0.2 MILE WEST OF THE JUNCTION OF

KA0332'STATE HIGHWAY 135, AT A STEEL BRIDGE OVER A LARGE STREAM, IN THE

KA0332'TOP OF THE SOUTH END OF THE EAST ABUTMENT, 4-1/2 YARDS SOUTH OF

KA0332'THE CENTERLINE OF THE HIGHWAY, AND ONE-HALF FOOT ABOVE THE BRIDGE

KA0332'LEVEL. A STANDARD DISK, STAMPED L 53 1934.

KA0332

STATION RECOVERY (1982)

KA0332

KA0332'RECOVERY NOTE BY US ENGINEERS 1982

KA0332'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

KA0405 *****

KA0405 CBN - This is a Cooperative Base Network Control Station.

KA0405 DESIGNATION - S 280

KA0405 PID - KA0405

KA0405 STATE/COUNTY- IN/GREENE

KA0405 USGS QUAD - SOLSBERRY (1983)

KA0405

KA0405 *CURRENT SURVEY CONTROL

KA0405

KA0405* NAD 83(2007)- 39 00 57.25631(N) 086 50 24.41395(W) ADJUSTED

KA0405* NAVD 88 - 204.997 (meters) 672.56 (feet) ADJUSTED

KA0405

KA0405 EPOCH DATE - 2002.00

KA0405 X - 273,536.847 (meters) COMP

KA0405 Y - -4,954,804.979 (meters) COMP

KA0405 Z - 3,993,797.397 (meters) COMP

KA0405 LAPLACE CORR- -1.82 (seconds) DEFLEC09

KA0405 ELLIP HEIGHT- 172.126 (meters) (02/10/07) ADJUSTED

KA0405 GEOID HEIGHT- -32.87 (meters) GEOID09

KA0405 DYNAMIC HT - 204.870 (meters) 672.14 (feet) COMP

KA0405

4/28/2011

DATASHEETS

KA0405 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----
 KA0405 Type PID Designation North East Ellip
 KA0405 -----
 KA0405 NETWORK KA0405 S 280 0.65 0.47 1.65
 KA0405 -----
 KA0405 MODELED GRAV- 980,002.1 (mgal) NAVD 88
 KA0405

KA0405 VERT ORDER - FIRST CLASS II
 KA0405

KA0405.The horizontal coordinates were established by GPS observations
 KA0405.and adjusted by the National Geodetic Survey in February 2007.
 KA0405

KA0405.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
 KA0405.See National Readjustment for more information.

KA0405.The horizontal coordinates are valid at the epoch date displayed above.
 KA0405.The epoch date for horizontal control is a decimal equivalence
 KA0405.of Year/Month/Day.

KA0405
 KA0405.The orthometric height was determined by differential leveling and
 KA0405.adjusted in June 1991.

KA0405
 KA0405.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 KA0405

KA0405.The Laplace correction was computed from DEFLEC09 derived deflections.
 KA0405

KA0405.The ellipsoidal height was determined by GPS observations
 KA0405.and is referenced to NAD 83.

KA0405
 KA0405.The geoid height was determined by GEOID09.
 KA0405

KA0405.The dynamic height is computed by dividing the NAVD 88
 KA0405.geopotential number by the normal gravity value computed on the
 KA0405.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 KA0405.degrees latitude (g = 980.6199 gals.).

KA0405
 KA0405.The modeled gravity was interpolated from observed gravity values.
 KA0405

KA0405;		North	East	Units	Scale	Factor	Converg.
KA0405;SPC IN W	-	418,290.030	921,063.724	MT	0.99997213		+0 09 11.2
KA0405;SPC IN W	-	1,372,339.87	3,021,856.57	sFT	0.99997213		+0 09 11.2
KA0405;UTM 16	-	4,318,553.686	513,841.627	MT	0.99960236		+0 06 02.4
KA0405!	-	Elev Factor	x	Scale Factor	=	Combined Factor	
KA0405!SPC IN W	-	0.99997299	x	0.99997213	=	0.99994513	
KA0405!UTM 16	-	0.99997299	x	0.99960236	=	0.99957537	

KA0405
 KA0405 SUPERSEDED SURVEY CONTROL
 KA0405

KA0405	NAD 83(1997)-	39 00 57.25641(N)	086 50 24.41413(W)	AD()	B
KA0405	ELLIP H (04/10/98)	172.133 (m)		GP()	4 1
KA0405	NAVD 88 (04/10/98)	205.00 (m)	672.6	(f) LEVELING	3
KA0405	NGVD 29 (??/??/92)	205.125 (m)	672.98	(f) ADJ UNCH	1 2

KA0405
 KA0405.Superseded values are not recommended for survey control.
 KA0405.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 KA0405.See file dsdata.txt to determine how the superseded data were derived.
 KA0405

KA0405_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ1384118553(NAD 83)
 KA0405_MARKER: DB = BENCH MARK DISK
 KA0405_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 KA0405_SP_SET: SET IN TOP OF CONCRETE MONUMENT
 KA0405_STAMPING: S 280 1949
 KA0405_MARK LOGO: CGS
 KA0405_MAGNETIC: N = NO MAGNETIC MATERIAL
 KA0405_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 KA0405+STABILITY: SURFACE MOTION
 KA0405_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 KA0405+SATELLITE: SATELLITE OBSERVATIONS - May 11, 2010

KA0405

KA0405	HISTORY	- Date	Condition	Report By
KA0405	HISTORY	- 1949	MONUMENTED	CGS
KA0405	HISTORY	- 19970818	SEE DESCRIPTION	SEC
KA0405	HISTORY	- 20100511	GOOD	AEROME

KA0405

STATION DESCRIPTION

KA0405

KA0405'DESCRIBED BY COAST AND GEODETIC SURVEY 1949
 KA0405'0.4 MI E FROM PARK.
 KA0405'0.4 MILE EAST ALONG THE GRAVEL ROAD FROM THE PARK SCHOOL AT
 KA0405'PARK, ABOUT 0.8 MILE WEST FROM THE JUNCTION OF A ROAD NORTH,
 KA0405'AT A T FENCE CORNER AT AN ABANDONED CHURCH, 52 FEET WEST-NORTHWEST
 KA0405'OF THE NORTHWEST CORNER OF THE CHURCH, 39 FEET SOUTHEAST AND
 KA0405'ACROSS THE ROAD FROM POWER POLE WITH A TRANSFORMER, 18 FEET SOUTH
 KA0405'OF THE CENTER LINE OF THE ROAD, 2 FEET WEST OF THE T FENCE CORNER,
 KA0405'2 FEET SOUTH OF A WHITE WOODEN WITNESS POST, ABOUT 2 FEET ABOVE
 KA0405'THE LEVEL OF THE ROAD AND SET IN THE TOP OF A CONCRETE POST
 KA0405'PROJECTING 4 INCHES.

KA0405

STATION RECOVERY (1997)

KA0405

KA0405'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)
 KA0405'FROM BLOOMFIELD, TRAVEL 7.64 KM (4.75 MI) EAST OF U.S. 54. TURN SOUTH
 KA0405'ON TO COUNTY ROAD 530 EAST AND TRAVEL 1.45 KM (0.90 MI) TO THE
 KA0405'JUNCTION WITH COUNTY ROAD 50 NORTH. TRAVEL EAST ON COUNTY ROAD 50
 KA0405'NORTH FOR 0.25 KM (0.15 MI) TO THE JUNCTION WITH 500 EAST. TRAVEL
 KA0405'SOUTH ON 500 EAST FOR 2.25 KM (1.40 MI) TO THE INTERSECTION OF COUNTY
 KA0405'ROAD 50 SOUTH WITH 500 EAST. TURN EAST AND TRAVEL ON COUNTY ROAD 50
 KA0405'SOUTH FOR 0.72 KM (0.45 MI). THE STATION IS LOCATED SOUTH OF COUNTY
 KA0405'ROAD 50 SOUTH, ON THE COUNTY RIGHT-OF-WAY ADJACENT TO THE PROPERTY OF
 KA0405'CHARLES HELMS. CONTACT DAVID O. ANDERSON, COUNTY ROAD SUPERVISOR,
 KA0405'COURTHOUSE, ROOM G05, BLOOMFIELD IN 47424, PHONE 812-384-2017. LOCATED
 KA0405'6.71 METERS (22.01 FT) WEST AND 0.91 METERS (2.99 FT) SOUTH OF A
 KA0405'TELEPHONE POLE, 5.33 METERS (17.49 FT) SOUTH OF THE COUNTY ROAD 50
 KA0405'SOUTH CENTER, 101 METERS (331.4 FT) WEST OF THE CENTER OF THE WEST
 KA0405'DRIVEWAY ON THE PROPERTY OWNED BY CHARLES HELMS, 78.5 METERS (257.5
 KA0405'FT) EAST OF THE CENTER OF THE EAST DRIVEWAY ON PROPERTY OWNED BY RALPH
 KA0405'RAPER, ABOUT 0.3 METERS (1.0 FT) ABOVE THE ROAD LEVEL, IN THE TOP OF A
 KA0405'ROUND CONCRETE MONUMENT PROJECTING 20 CM ABOVE GROUND. THE MONUMENT
 KA0405'APPEARS TO HAVE BEEN STRUCK, AS A PORTION OF THE TOP OF THE CONCRETE
 KA0405'MONUMENT ON THE WEST SIDE IS MISSING. IT ALSO APPEARS TO HAVE BEEN
 KA0405'DISTURBED, AS THE TOP OF THE MONUMENT SLOPES, 5/16 INCH PER FOOT TO
 KA0405'THE EAST.

KA0405

STATION RECOVERY (2010)

KA0405

KA0405

KA0405'RECOVERY NOTE BY AERO METRIC INC 2010

KA0405'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

KA0601 *****

KA0601 CBN - This is a Cooperative Base Network Control Station.

KA0601 DESIGNATION - F 122

KA0601 PID - KA0601

KA0601 STATE/COUNTY- IN/PUTNAM

KA0601 USGS QUAD - GREENCASTLE (1986)

KA0601

KA0601 *CURRENT SURVEY CONTROL

KA0601

KA0601* NAD 83(2007)- 39 37 37.47146(N) 086 49 09.04810(W) ADJUSTED

KA0601* NAVD 88 - 246.099 (meters) 807.41 (feet) ADJUSTED

KA0601

KA0601 EPOCH DATE - 2002.00

KA0601 X - 272,963.168 (meters) COMP

KA0601 Y - -4,911,804.881 (meters) COMP

KA0601 Z - 4,046,316.088 (meters) COMP

KA0601 LAPLACE CORR- 0.66 (seconds) DEFLEC09

KA0601 ELLIP HEIGHT- 213.088 (meters) (02/10/07) ADJUSTED

KA0601 GEOID HEIGHT- -33.01 (meters) GEOID09

KA0601 DYNAMIC HT - 245.959 (meters) 806.95 (feet) COMP

KA0601

KA0601 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

KA0601 Type PID Designation North East Ellip

KA0601 -----

KA0601 NETWORK KA0601 F 122 1.27 0.80 2.90

KA0601 -----

KA0601 MODELED GRAV- 980,053.5 (mgal) NAVD 88

KA0601

KA0601 VERT ORDER - SECOND CLASS 0

KA0601

KA0601.The horizontal coordinates were established by GPS observations

KA0601.and adjusted by the National Geodetic Survey in February 2007.

KA0601

KA0601.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

KA0601.See National Readjustment for more information.

KA0601.The horizontal coordinates are valid at the epoch date displayed above.

KA0601.The epoch date for horizontal control is a decimal equivalence

KA0601.of Year/Month/Day.

KA0601

KA0601.The orthometric height was determined by differential leveling and

KA0601.adjusted in June 1991.

KA0601

KA0601.The X, Y, and Z were computed from the position and the ellipsoidal ht.

KA0601

KA0601.The Laplace correction was computed from DEFLEC09 derived deflections.

KA0601

KA0601.The ellipsoidal height was determined by GPS observations

KA0601.and is referenced to NAD 83.

KA0601

KA0601.The geoid height was determined by GEOID09.

KA0601

KA0601.The dynamic height is computed by dividing the NAVD 88

KA0601.geopotential number by the normal gravity value computed on the

KA0601.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
KA0601.degrees latitude (g = 980.6199 gals.).

KA0601

KA0601.The modeled gravity was interpolated from observed gravity values.

KA0601

KA0601;	North	East	Units	Scale	Factor	Converg.
KA0601;SPC IN W	- 486,146.149	922,678.558	MT	0.99997300	+0 10	06.5
KA0601;SPC IN W	- 1,594,964.49	3,027,154.57	sFT	0.99997300	+0 10	06.5
KA0601;UTM 16	- 4,386,383.189	515,518.379	MT	0.99960296	+0 06	55.2

KA0601

KA0601! - Elev Factor x Scale Factor = Combined Factor

KA0601!SPC IN W - 0.99996657 x 0.99997300 = 0.99993957

KA0601!UTM 16 - 0.99996657 x 0.99960296 = 0.99956954

KA0601

KA0601:	Primary Azimuth Mark	Grid Az
KA0601:SPC IN W	- PUTPORT	075 57 26.5
KA0601:UTM 16	- PUTPORT	076 00 37.8

KA0601

KA0601	PID	Reference Object	Distance	Geod. Az
KA0601			ddmmss.s	
KA0601	KA2043	PUTPORT	437.651 METERS	0760733.0

KA0601

KA0601 SUPERSEDED SURVEY CONTROL

KA0601

KA0601	NAD 83(1997)-	39 37 37.47148(N)	086 49 09.04829(W)	AD() B
KA0601	ELLIP H (04/10/98)	213.091 (m)		GP() 4 1
KA0601	NAD 83(1986)-	39 37 37.46927(N)	086 49 09.04427(W)	AD() 3
KA0601	NAD 27	- 39 37 37.31437(N)	086 49 09.02060(W)	AD() 3
KA0601	NAVD 88 (04/10/98)	246.10 (m)	807.4 (f)	LEVELING 3
KA0601	NGVD 29 (??/??/92)	246.209 (m)	807.77 (f)	ADJ UNCH 2 0

KA0601

KA0601.Superseded values are not recommended for survey control.

KA0601.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

KA0601.See file dsdata.txt to determine how the superseded data were derived.

KA0601

KA0601_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ1551886383(NAD 83)

KA0601_MARKER: DB = BENCH MARK DISK

KA0601_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

KA0601_SP_SET: CONCRETE POST

KA0601_STAMPING: F 122 1946

KA0601_MARK LOGO: CGS

KA0601_MAGNETIC: N = NO MAGNETIC MATERIAL

KA0601_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

KA0601+STABILITY: SURFACE MOTION

KA0601_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

KA0601+SATELLITE: SATELLITE OBSERVATIONS - October 05, 2006

KA0601

KA0601	HISTORY	- Date	Condition	Report By
KA0601	HISTORY	- 1946	MONUMENTED	CGS
KA0601	HISTORY	- 19880702	GOOD	NGS
KA0601	HISTORY	- 19901008	GOOD	NGS
KA0601	HISTORY	- 19970527	GOOD	NGS
KA0601	HISTORY	- 20061005	GOOD	AME

KA0601

KA0601

STATION DESCRIPTION

KA0601

KA0601'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

KA0601'3.2 MI SE FROM GREENCASTLE.

KA0601'1.1 MILE SOUTH ALONG STATE HIGHWAY 43 FROM THE COUNTY COURT HOUSE

KA0601'AT GREENCASTLE, THENCE 2.05 MILES EAST ALONG A PAVED ROAD TO

KA0601'THE GREENCASTLE MUNICIPAL AIRPORT, AT THE ENTRANCE TO THE

KA0601'AIRPORT, 60 YARDS SOUTHEAST OF THE SOUTHEAST CORNER OF A 12 FT

KA0601'X 14 FT OFFICE BUILDING, 38 FEET NORTH OF THE CENTER LINE OF THE

KA0601'PAVED ROAD ALONG THE SOUTH SIDE OF THE FIELD, 22.5 FEET EAST OF

KA0601'THE CENTER LINE OF THE ENTRANCE ROAD, 3 FEET SOUTHWEST OF A SIGN

KA0601'AERO SERVICES-GREENCASTLE MUNICIPAL AIRPORT- ETC., 2 FEET

KA0601'NORTHWEST OF A WHITE WOODEN WITNESS POST AND ABOUT LEVEL WITH THE

KA0601'PAVED ROAD. A STANDARD DISK, STAMPED F 122 1946 AND SET IN THE

KA0601'TOP OF A CONCRETE POST PROJECTING 4 INCHES ABOVE GROUND.

KA0601

KA0601

STATION RECOVERY (1988)

KA0601

KA0601'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1988

KA0601'THE STATION IS LOCATED ABOUT 11.3 KM (7.00 MI) NORTH OF INTERSTATE

KA0601'HIGHWAY 70, 4.8 KM (3.00 MI) SOUTHEAST OF GREENCASTLE AND NEAR

KA0601'ENTRANCE TO GREENCASTLE MUNICIPAL AIRPORT. OWNERSHIP--INDIANA

KA0601'DEPARTMENT OF HIGHWAYS, 100 NORTH SENATE AVENUE, ROOM 1101, STATE

KA0601'OFFICE BUILDING, INDIANAPOLIS, IN 46204, PHONE 317-232-5533.

KA0601'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 240 AND U.S.

KA0601'HIGHWAY 231 AT GREENCASTLE, GO SOUTH ON U.S. HIGHWAY 231 FOR 1.4 KM

KA0601'(0.85 MI) TO A ROAD LEFT. TURN LEFT AND GO EAST ON PAVED ROAD FOR 1.0

KA0601'KM (0.60 MI) TO A STOP SIGN AT T-ROAD. TURN RIGHT AND GO SOUTH ALONG

KA0601'PAVED ROAD FOR 2.6 KM (1.60 MI) TO AIRPORT ENTRANCE AND STATION ON

KA0601'THE LEFT.

KA0601'THE STATION IS A STANDARD CGS BENCH MARK DISK STAMPED---F 122

KA0601'1946---, SET IN THE TOP OF A SQUARE CONCRETE POST THAT PROJECTS 4

KA0601'INCHES ABOVE THE GROUND. LOCATED 12.4 M (40.7 FT) NORTH FROM CENTER

KA0601'OF PAVED ROAD, 5.8 M (19.0 FT) EAST FROM CENTER OF AIRPORT ENTRANCE

KA0601'ROAD, 3.8 M (12.5 FT) NORTH OF A FENCE CORNER POST AND 0.4 M (1.3

KA0601'FT)WEST OF FIBERGLASS WITNESS POST IN FENCELINE.

KA0601'GPS SURVEY, FAA AIRPORTS, INDIANA.

KA0601'DESCRIBED BY D.L. ADAMS.

KA0601

KA0601

STATION RECOVERY (1990)

KA0601

KA0601'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990

KA0601'THE STATION IS LOCATED ABOUT 11.3 KM (7.0 MI) NORTH OF INTERSTATE

KA0601'HIGHWAY 70, 4.8 KM (3.0 MI) SOUTHEAST OF GREENCASTLE AND ON THE EAST

KA0601'SIDE OF THE ENTRANCE ROAD OF THE GREENCASTLE MUNICIPAL AIRPORT.

KA0601'OWNERSHIP--INDIANA DEPARTMENT OF HIGHWAYS, 100 NORTH SENATE AVENUE,

KA0601'ROOM 1101, STATE OFFICE BUILDING, INDIANAPOLIS, IN 46204, PHONE

KA0601'317-232-5533.

KA0601'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 240 AND U.S.

KA0601'HIGHWAY 231 IN GREENCASTLE, GO SOUTH ON U.S. HIGHWAY 231 FOR 1.4 KM

KA0601'(0.9 MI) TO THE JUNCTION MARTINSVILLE STREET ON THE LEFT, TURN LEFT,

KA0601'EAST, ON MARTINSVILLE STREET FOR 1.0 KM (0.6 MI) TO THE JUNCTION OF A

KA0601'T-ROAD (FIRST STREET), TURN RIGHT, SOUTH-SOUTHEAST, ON FIRST STREET

KA0601'FOR 2.6 KM (1.6 MI) TO THE AIRPORT ENTRANCE ROAD AND THE STATION ON

KA0601'THE LEFT.

KA0601'THE STATION IS LOCATED 12.4 M (40.7 FT) NORTH OF THE CENTER OF THE

KA0601'ROAD, 5.8 M (19.0 FT) EAST OF THE CENTER OF THE AIRPORT ENTRANCE

KA0601'ROAD, 3.8 M (12.5 FT) NORTH OF THE CORNER POST OF A FENCE AND 0.4 M

KA0601' (1.3 FT) WEST OF A FIBERGLASS WITNESS POST SET IN A FENCE LINE.

KA0601

KA0601

STATION RECOVERY (1997)

KA0601

KA0601'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (CSM)

KA0601'THE STATION IS LOCATED ABOUT 11 KM (6.85 MI) NORTH OF INTERSTATE

KA0601'HIGHWAY 70, 5 KM (3.10 MI) SOUTHEAST OF GREENCASTLE, IN THE EAST

KA0601'QUADRANT OF THE JUNCTION OF COUNTY ROAD 200S AND THE AIRFIELD ENTRANCE

KA0601'ROAD, IN GRASS JUST OUTSIDE OF THE AIRPORT PERIMETER FENCE, AND ACROSS

KA0601'THE AIRPORT ENTRANCE ROAD FROM THE ENTRANCE TO THE JAYCEE PARK.

KA0601'OWNERSHIP--INDIANA DEPARTMENT OF TRANSPORTATION. TO REACH FROM THE

KA0601'JUNCTION OF U.S. HIGHWAY 231 AND STATE HIGHWAY 240 IN GREENCASTLE, GO

KA0601'SOUTH ON HIGHWAY 231 FOR 0.12 KM (0.05 MI) TO A PAVED ROAD LEFT

KA0601'(MARTINSVILLE STREET). TURN LEFT, EAST ON MARTINSVILLE STREET FOR

KA0601'0.92 KM (0.55 MI) TO A PAVED T-JUNCTION (FIRST STREET). TURN RIGHT,

KA0601'SOUTH-SOUTHEAST ON FIRST STREET FOR 0.16 KM (0.10 MI) TO A PAVED

KA0601'T-JUNCTION. TURN LEFT, EAST, THEN SOUTHEASTERLY ON COUNTY ROAD 200S

KA0601'FOR 2.14 KM (1.30 MI) TO THE AIRPORT ENTRANCE ROAD AND THE STATION ON

KA0601'THE LEFT. THE STATION IS SET IN THE TOP OF A 30 CM ROUND CONCRETE

KA0601'POST PROJECTING 3 CM ABOVE GROUND. IT IS 12.4 M (40.7 FT) NORTHEAST

KA0601'OF THE CENTER OF COUNTY ROAD 200S, 5.8 M (19.0 FT) EAST-SOUTHEAST OF

KA0601'THE CENTER OF THE AIRPORT ENTRANCE ROAD, 3.6 M (11.8 FT) EAST OF THE

KA0601'EXTENDED CENTER OF THE PARK ENTRANCE ROAD, 3.6 M (11.8 FT)

KA0601'NORTH-NORTHEAST OF A WOODEN FENCE CORNER POST, 0.35 M (1.15 FT)

KA0601'WEST-NORTHWEST OF THE CHAIN LINK PERIMETER FENCE AND 0.25 M (0.82 FT)

KA0601'WEST-NORTHWEST OF A FIBERGLASS WITNESS POST.

KA0601

KA0601

STATION RECOVERY (2006)

KA0601

KA0601'RECOVERY NOTE BY AERO-METRIC ENGINEERING INCORPORATED 2006 (MB)

KA0601'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

KA0735 *****

KA0735 DESIGNATION - X 74

KA0735 PID - KA0735

KA0735 STATE/COUNTY- IN/PUTNAM

KA0735 USGS QUAD - ROACHDALE (1958)

KA0735

KA0735

*CURRENT SURVEY CONTROL

KA0735

KA0735* NAD 83(1986)- 39 51 09. (N) 086 48 10. (W) SCALED

KA0735* NAVD 88 - 257.874 (meters) 846.04 (feet) ADJUSTED

KA0735

KA0735 GEOID HEIGHT- -33.17 (meters) GEOID09

KA0735 DYNAMIC HT - 257.732 (meters) 845.58 (feet) COMP

KA0735 MODELED GRAV- 980,069.9 (mgal) NAVD 88

KA0735

KA0735 VERT ORDER - SECOND CLASS 0

KA0735

KA0735.The horizontal coordinates were scaled from a topographic map and have
KA0735.an estimated accuracy of +/- 6 seconds.

KA0735

KA0735.The orthometric height was determined by differential leveling and
KA0735.adjusted in June 1991.

KA0735

KA0735.The geoid height was determined by GEOID09.

KA0735

4/28/2011

DATASHEETS

KA0735.The dynamic height is computed by dividing the NAVD 88
KA0735.geopotential number by the normal gravity value computed on the
KA0735.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
KA0735.degrees latitude (g = 980.6199 gals.).

KA0735

KA0735.The modeled gravity was interpolated from observed gravity values.

KA0735

KA0735; North East Units Estimated Accuracy
KA0735;SPC IN W - 511,180. 924,010. MT (+/- 180 meters Scaled)

KA0735

KA0735 SUPERSEDED SURVEY CONTROL

KA0735

KA0735 NGVD 29 (??/??/92) 257.980 (m) 846.39 (f) ADJ UNCH 2 0

KA0735

KA0735.Superseded values are not recommended for survey control.
KA0735.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
KA0735.See file dsdata.txt to determine how the superseded data were derived.

KA0735

KA0735_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEK168114(NAD 83)

KA0735_MARKER: DB = BENCH MARK DISK

KA0735_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

KA0735_SP_SET: SET IN TOP OF CONCRETE MONUMENT

KA0735_STAMPING: X 74 1946

KA0735_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

KA0735+STABILITY: SURFACE MOTION

KA0735

KA0735 HISTORY - Date Condition Report By

KA0735 HISTORY - 1946 MONUMENTED CGS

KA0735 HISTORY - 20051230 GOOD GEOCAC

KA0735

KA0735 STATION DESCRIPTION

KA0735

KA0735'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

KA0735'AT ROACHDALE.

KA0735'AT ROACHDALE, SET IN THE EAST CORNER OF THE SOUTHEAST CONCRETE

KA0735'FOUNDATION OF THE TOWN WATER TOWER, 1 FOOT WEST OF THE EAST

KA0735'CORNER OF THE FOUNDATION AND ABOUT 1 FOOT HIGHER THAN THE GROUND.

KA0735'A STANDARD DISK, STAMPED X 74 1946.

KA0735

KA0735 STATION RECOVERY (2005)

KA0735

KA0735'RECOVERY NOTE BY GEOCACHING 2005 (BMC)

KA0735'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

KA1665 *****

KA1665 CBN - This is a Cooperative Base Network Control Station.

KA1665 DESIGNATION - K 352

KA1665 PID - KA1665

KA1665 STATE/COUNTY- IN/HENDRICKS

KA1665 USGS QUAD - CLAYTON (1970)

KA1665

KA1665 *CURRENT SURVEY CONTROL

KA1665

KA1665* NAD 83(2007)- 39 41 00.75790(N) 086 30 28.13155(W) ADJUSTED

KA1665* NAVD 88 - 250.475 (meters) 821.77 (feet) ADJUSTED

KA1665

KA1665 EPOCH DATE - 2002.00

4/28/2011

DATASHEETS

KA1665	X	-	299,407.994 (meters)		COMP
KA1665	Y	-	-4,906,258.661 (meters)		COMP
KA1665	Z	-	4,051,146.033 (meters)		COMP
KA1665	LAPLACE CORR-		-0.21 (seconds)		DEFLEC09
KA1665	ELLIP HEIGHT-		217.548 (meters)	(02/10/07)	ADJUSTED
KA1665	GEOID HEIGHT-		-32.92 (meters)		GEOID09
KA1665	DYNAMIC HT	-	250.337 (meters)	821.31 (feet)	COMP

KA1665

KA1665 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

KA1665	Type	PID	Designation	North	East	Ellip
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KA1665 -----

KA1665	NETWORK	KA1665	K 352	1.45	0.98	3.43
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KA1665 -----

KA1665	MODELED GRAV-		980,071.7 (mgal)			NAVD 88
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KA1665

KA1665 VERT ORDER - FIRST CLASS II

KA1665

KA1665.The horizontal coordinates were established by GPS observations

KA1665.and adjusted by the National Geodetic Survey in February 2007.

KA1665

KA1665.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

KA1665.See National Readjustment for more information.

KA1665.The horizontal coordinates are valid at the epoch date displayed above.

KA1665.The epoch date for horizontal control is a decimal equivalence

KA1665.of Year/Month/Day.

KA1665

KA1665.The orthometric height was determined by differential leveling and

KA1665.adjusted in June 1991.

KA1665

KA1665.The X, Y, and Z were computed from the position and the ellipsoidal ht.

KA1665

KA1665.The Laplace correction was computed from DEFLEC09 derived deflections.

KA1665

KA1665.The ellipsoidal height was determined by GPS observations

KA1665.and is referenced to NAD 83.

KA1665

KA1665.The geoid height was determined by GEOID09.

KA1665

KA1665.The dynamic height is computed by dividing the NAVD 88

KA1665.geopotential number by the normal gravity value computed on the

KA1665.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

KA1665.degrees latitude (g = 980.6199 gals.).

KA1665

KA1665.The modeled gravity was interpolated from observed gravity values.

KA1665

KA1665;		North	East	Units	Scale	Factor	Converg.
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KA1665;SPC	IN W	-	492,540.513	949,370.413	MT	0.99999666	+0 22 03.0
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KA1665;SPC	IN W	-	1,615,943.33	3,114,726.10	sFT	0.99999666	+0 22 03.0
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KA1665;UTM	16	-	4,392,750.402	542,206.216	MT	0.99962193	+0 18 51.4
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KA1665

KA1665!		-	Elev Factor	x	Scale Factor	=	Combined Factor
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KA1665!SPC	IN W	-	0.99996587	x	0.99999666	=	0.99996253
------------	------	---	------------	---	------------	---	------------

KA1665!UTM	16	-	0.99996587	x	0.99962193	=	0.99958781
------------	----	---	------------	---	------------	---	------------

KA1665

KA1665 SUPERSEDED SURVEY CONTROL

KA1665

KA1665 NAD 83(1997)- 39 41 00.75797(N) 086 30 28.13172(W) AD() B

4/28/2011

DATASHEETS

KA1665 ELLIP H (04/10/98) 217.550 (m) GP() 4 1
KA1665 NAVD 88 (04/10/98) 250.47 (m) 821.8 (f) LEVELING 3

KA1665

KA1665.Superseded values are not recommended for survey control.

KA1665.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

KA1665.See file dsdata.txt to determine how the superseded data were derived.

KA1665

KA1665_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ4220692750(NAD 83)

KA1665_MARKER: I = METAL ROD

KA1665_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

KA1665_SP_SET: STAINLESS STEEL ROD

KA1665_STAMPING: K 352 1985

KA1665_MARK LOGO: NGS

KA1665_PROJECTION: FLUSH

KA1665_MAGNETIC: N = NO MAGNETIC MATERIAL

KA1665_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

KA1665_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

KA1665+SATELLITE: SATELLITE OBSERVATIONS - March 28, 2007

KA1665_ROD/PIPE-DEPTH: 16.6 meters

KA1665

KA1665	HISTORY	- Date	Condition	Report By
KA1665	HISTORY	- 1985	MONUMENTED	NGS
KA1665	HISTORY	- 19970815	GOOD	SEC
KA1665	HISTORY	- 20070328	GOOD	GRWAS

KA1665

STATION DESCRIPTION

KA1665

KA1665'DESCRIBED BY NATIONAL GEODETIC SURVEY 1985

KA1665'1.9 KM (1.2 MI) NORTH FROM BELLEVILLE.

KA1665'1.9 KM (1.2 MI) NORTHERLY ALONG STATE HIGHWAY 39 FROM ITS JUNCTION

KA1665'WITH U.S. HIGHWAY 40 IN BELLEVILLE, 27.4 M (89.9 FT) SOUTHEAST OF THE

KA1665'SOUTHEAST END OF A CONCRETE CULVERT, 15.2 M (49.9 FT) SOUTHWEST OF THE

KA1665'CENTER OF THE HIGHWAY, 11.0 M (36.1 FT) WEST-SOUTHWEST OF A FENCE

KA1665'CORNER, 5.8 M (19.0 FT) WEST OF THE CENTER OF A GRAVELED ROAD LEADING

KA1665'SOUTH, AND 0.5 M (1.6 FT) SOUTHEAST OF A UTILITY POLE WITH 2 GUY

KA1665'WIRES. NOTE--ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP.

KA1665'THE MARK IS 0.3 METERS NNE FROM A WITNESS POST

KA1665'THE MARK IS 0.3 M BELOW THE HIGHWAY.

KA1665

STATION RECOVERY (1997)

KA1665

KA1665'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

KA1665'THE STATION IS 1.93 KM (1.20 MI) NORTH OF JUNCTION OF U.S. HIGHWAY 40

KA1665'AND STATE ROAD 39 AT BELLEVILLE, 31.4 KM (19.50 MI) SOUTHWEST OF

KA1665'INDIANAPOLIS, 8.05 KM (5.00 MI) SOUTH OF DANVILLE AND 31.4 KILOMETERS

KA1665'(19.50 MI) EAST OF GREENCASTLE. FOLLOW STATE ROAD 39 NORTH AT

KA1665'BELLEVILLE 1.93 KILOMETERS (1.20 MI) TO CURVES. AHEAD OF CURVES ON

KA1665'LEFT IS A GRAVEL DRIVE (LEADING SOUTH) OF FIELD ENTRANCE WITH A

KA1665'CONCRETE CULVERT UNDER STATE ROAD 39 JUST BACKLINE OF JOE GIBBS FARM.

KA1665'STATION IS LOCATED 14.9 METERS (48.9 FT) FROM CENTERLINE OF STATE ROAD

KA1665'39, 27.345 METERS (89.714 FT) SOUTHEAST OF SOUTHWEST CORNER OF

KA1665'CONCRETE HEADWALL, AND 24.30 METERS (79.72 FT) FROM FACE OF POWER POLE

KA1665'068-183. STATION IS ON INDOT RIGHT-OF-WAY, OWNERSHIP--INDOT, 100

KA1665'NORTH SENATE AVENUE, STATE OFFICE BUILDING, INDIANAPOLIS IN 46204.

KA1665'CONTACT IS HENRY ALDRIDGE, LOCATION SURVEYS, PHONE 317-232-6764.

KA1665'ACCESS TO ROD IS THROUGH A 5-INCH LOGO CAP. THE MARK IS 0.3 METERS

KA1665'(1.0 FT) NORTH-NORTHEAST FROM A WITNESS POST AND 0.80 METERS (2.62 FT)

KA1665 'BELOW THE HIGHWAY.

KA1665

KA1665

STATION RECOVERY (2007)

KA1665

KA1665 'RECOVERY NOTE BY GRW AERIAL SURVEY 2007

KA1665 'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

KA2083 *****

KA2083 DESIGNATION - K 81 RESET

KA2083 PID - KA2083

KA2083 STATE/COUNTY- IN/OWEN

KA2083 USGS QUAD - CATARACT (1986)

KA2083

KA2083 *CURRENT SURVEY CONTROL

KA2083

KA2083* NAD 83(1986)- 39 26 32. (N) 086 47 02. (W) SCALED

KA2083* NAVD 88 - 239.56 (meters) 786.0 (feet) RESET

KA2083

KA2083 GEOID HEIGHT- -32.89 (meters) GEOID09

KA2083 VERT ORDER - THIRD

KA2083

KA2083.The horizontal coordinates were scaled from a topographic map and have an estimated accuracy of +/- 6 seconds.

KA2083

KA2083.The orthometric height was computed from unverified reset data.

KA2083

KA2083.The geoid height was determined by GEOID09.

KA2083

KA2083; North East Units Estimated Accuracy
KA2083;SPC IN W - 465,630. 925,780. MT (+/- 180 meters Scaled)

KA2083

SUPERSEDED SURVEY CONTROL

KA2083

KA2083 NGVD 29 (04/16/04) 239.68 (m) 786.4 (f) RESET 3

KA2083

KA2083.Superseded values are not recommended for survey control.

KA2083.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

KA2083.See file dsdata.txt to determine how the superseded data were derived.

KA2083

KA2083_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SEJ185658(NAD 83)

KA2083_MARKER: DV = VERTICAL CONTROL DISK

KA2083_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

KA2083_SP_SET: CONCRETE POST

KA2083_STAMPING: K 81 RESET 1988

KA2083_MARK LOGO: NGS

KA2083_MAGNETIC: N = NO MAGNETIC MATERIAL

KA2083_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

KA2083+STABILITY: SURFACE MOTION

KA2083_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

KA2083+SATELLITE: SATELLITE OBSERVATIONS - May 12, 2010

KA2083

KA2083 HISTORY - Date Condition Report By

KA2083 HISTORY - 1988 MONUMENTED INHD

KA2083 HISTORY - 20100512 GOOD AEROME

KA2083

KA2083 STATION DESCRIPTION

KA2083

4/28/2011

DATASHEETS

KA2083'DESCRIBED BY INDIANA HIGHWAY DEPARTMENT 1988
KA2083'FROM THE POST OFFICE IN CLOVERDALE GO 5.2 MILES (8.4 KM) SOUTH ON US
KA2083'231, THENCE ABOUT 1.05 MILES (1.69 KM) WEST ALONG AN ASPHALT ROAD
KA2083'LEADING TO CATARACT FALLS STATE PARK, 80 FEET (24.4 M) WEST OF THE
KA2083'CENTER OF A FIELD ENTRANCE, 17 FEET (5.2 M) WEST OF A POWER LINE
KA2083'POLE, 46 FEET (14.0 M) NORTH OF AND 3 FEET (0.9 M) LOWER THAN THE
KA2083'CENTERLINE OF THE ROAD, SET IN THE TOP OF A CONCRETE POST PROJECTING
KA2083'10 INCHES ABOVE GROUND.

KA2083

KA2083

STATION RECOVERY (2010)

KA2083

KA2083'RECOVERY NOTE BY AERO METRIC INC 2010

KA2083'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LA1380 *****

LA1380 CBN - This is a Cooperative Base Network Control Station.

LA1380 DESIGNATION - G 204

LA1380 PID - LA1380

LA1380 STATE/COUNTY- IN/GRANT

LA1380 USGS QUAD - POINT ISABEL (1994)

LA1380

LA1380

*CURRENT SURVEY CONTROL

LA1380

LA1380* NAD 83(2007)- 40 28 43.49572(N) 085 49 29.63193(W) ADJUSTED

LA1380* NAVD 88 - 263.412 (meters) 864.21 (feet) ADJUSTED

LA1380

LA1380 EPOCH DATE - 2002.00

LA1380 X - 353,725.193 (meters) COMP

LA1380 Y - -4,845,648.019 (meters) COMP

LA1380 Z - 4,118,713.889 (meters) COMP

LA1380 LAPLACE CORR- 0.74 (seconds) DEFLECO9

LA1380 ELLIP HEIGHT- 229.069 (meters) (02/10/07) ADJUSTED

LA1380 GEOID HEIGHT- -34.35 (meters) GEOID09

LA1380 DYNAMIC HT - 263.276 (meters) 863.76 (feet) COMP

LA1380

LA1380 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

LA1380 Type PID Designation North East Ellip

LA1380 -----

LA1380 NETWORK LA1380 G 204 0.57 0.37 1.47

LA1380 -----

LA1380 MODELED GRAV- 980,104.0 (mgal) NAVD 88

LA1380

LA1380 VERT ORDER - SECOND CLASS 0

LA1380

LA1380.The horizontal coordinates were established by GPS observations

LA1380.and adjusted by the National Geodetic Survey in February 2007.

LA1380

LA1380.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

LA1380.See National Readjustment for more information.

LA1380.The horizontal coordinates are valid at the epoch date displayed above.

LA1380.The epoch date for horizontal control is a decimal equivalence

LA1380.of Year/Month/Day.

LA1380

LA1380.The orthometric height was determined by differential leveling and

LA1380.adjusted in June 1991.

LA1380

LA1380.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LA1380

LA1380.The Laplace correction was computed from DEFLEC09 derived deflections.

LA1380

LA1380.The ellipsoidal height was determined by GPS observations

LA1380.and is referenced to NAD 83.

LA1380

LA1380.The geoid height was determined by GEOID09.

LA1380

LA1380.The dynamic height is computed by dividing the NAVD 88

LA1380.geopotential number by the normal gravity value computed on the

LA1380.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LA1380.degrees latitude (g = 980.6199 gals.).

LA1380

LA1380.The modeled gravity was interpolated from observed gravity values.

LA1380

LA1380;

LA1380;SPC IN E - North 580,687.794 East 86,583.317 Units MT Scale Factor 0.99996888 Converg. -0 06 09.8

LA1380;SPC IN E - 1,905,139.87 284,065.43 sFT 0.99996888 -0 06 09.8

LA1380;UTM 16 - 4,481,558.969 599,603.470 MT 0.99972212 +0 45 46.4

LA1380

LA1380! - Elev Factor x Scale Factor = Combined Factor

LA1380!SPC IN E - 0.99996407 x 0.99996888 = 0.99993295

LA1380!UTM 16 - 0.99996407 x 0.99972212 = 0.99968620

LA1380

LA1380

SUPERSEDED SURVEY CONTROL

LA1380

LA1380 NAD 83(1997)- 40 28 43.49578(N) 085 49 29.63159(W) AD() B

LA1380 ELLIP H (04/10/98) 229.105 (m) GP() 4 1

LA1380 NAVD 88 (04/10/98) 263.41 (m) 864.2 (f) LEVELING 3

LA1380 NGVD 29 (??/??/92) 263.539 (m) 864.63 (f) ADJ UNCH 2 0

LA1380

LA1380.Superseded values are not recommended for survey control.

LA1380.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LA1380.See file dsdata.txt to determine how the superseded data were derived.

LA1380

LA1380_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEK9960381558(NAD 83)

LA1380_MARKER: DB = BENCH MARK DISK

LA1380_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LA1380_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LA1380_STAMPING: G 204 1946

LA1380_MARK LOGO: CGS

LA1380_PROJECTION: FLUSH

LA1380_MAGNETIC: O = OTHER; SEE DESCRIPTION

LA1380_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LA1380+STABILITY: SURFACE MOTION

LA1380_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LA1380+SATELLITE: SATELLITE OBSERVATIONS - August 06, 2009

LA1380

LA1380 HISTORY - Date Condition Report By

LA1380 HISTORY - 1946 MONUMENTED CGS

LA1380 HISTORY - 19970520 GOOD NGS

LA1380 HISTORY - 19980726 GOOD WOOLPT

LA1380 HISTORY - 20090531 GOOD INDIV

LA1380 HISTORY - 20090806 GOOD WOOLPT

LA1380

LA1380

STATION DESCRIPTION

LA1380

LA1380'DESCRIBED BY COAST AND GEODETIC SURVEY 1946
 LA1380'2 MI S FROM SWAYZEE.
 LA1380'ABOUT 2.0 MILES SOUTH ALONG STATE HIGHWAY 13 FROM THE POST OFFICE
 LA1380'AT SWAYZEE, ABOUT 1.0 MILE NORTH OF THE CROSSROADS AT NORMAL,
 LA1380'AT THE INTERSECTION OF U.S. HIGHWAY 35 AND STATE HIGHWAY 22,
 LA1380'142 FEET SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 35, 40 FEET
 LA1380'EAST OF THE CENTER LINE OF HIGHWAY 13, 13 FEET SOUTH OF A POWER
 LA1380'POLE WITH A TRANSFORMER, 7.2 FEET SOUTH OF A RIGHT-OF-WAY MARKER,
 LA1380'6.5 FEET SOUTH OF A FENCE CORNER, ABOUT 1 FOOT BELOW THE
 LA1380'INTERSECTION, AND SET IN THE TOP OF A CONCRETE POST PROJECTING
 LA1380'6 INCHES.

LA1380
 LA1380
 LA1380

STATION RECOVERY (1997)

LA1380'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (CSM)
 LA1380'THE STATION IS LOCATED ABOUT 25.7 KM (15.95 MI) EAST OF KOKOMO, 14.5
 LA1380'KM (9.00 MI) SOUTHWEST OF MARION, 3.2 KM (2.00 MI) SOUTH OF SWAYZEE,
 LA1380'NEAR AND SOUTH-SOUTHEAST OF THE JUNCTION OF U.S. HIGHWAY 35 AND STATE
 LA1380'HIGHWAYS 13 AND 22, ALONG THE EAST SIDE OF HIGHWAY 13.
 LA1380'OWNERSHIP--STATE OF INDIANA. STATION IS 43.6 M (143.0 FT) SOUTH OF
 LA1380'THE HIGHWAY 35 CENTERLINE, 11.8 M (38.7 FT) EAST OF THE HIGHWAY 13
 LA1380'CENTER, 3.6 M (11.8 FT) SOUTH OF A UTILITY POLE WITH 1 GUY WIRE, 2.05
 LA1380'M (6.73 FT) SOUTH OF A CONCRETE STATE RIGHT-OF-WAY MARKER, 1.65 M
 LA1380'(5.41 FT) SOUTH-SOUTHEAST OF A GREEN UNDERGROUND CABLE JUNCTION BOX
 LA1380'NUMBER 5000 ABOUT 3-FOOT HIGH, ABOUT 0.3 M (1.0 FT) BELOW THE HIGHWAY
 LA1380'13 LEVEL AND FLUSH WITH GROUND.

LA1380
 LA1380
 LA1380

STATION RECOVERY (1998)

LA1380'RECOVERY NOTE BY WOOLPERT CONSULTANTS 1998 (EJR)
 LA1380'RECOVERED AS DESCRIBED. WOOLPERT LLP 1998 (EJR).

LA1380
 LA1380
 LA1380

STATION RECOVERY (2009)

LA1380'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2009
 LA1380'RECOVERED AS DESCRIBED

LA1380
 LA1380
 LA1380

STATION RECOVERY (2009)

LA1380'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2009 (BJM)
 LA1380'THIS STATION WAS RECOVERED AS DESCRIBED AND FOUND IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LA1637 *****

LA1637 DESIGNATION - V 172
 LA1637 PID - LA1637
 LA1637 STATE/COUNTY- IN/WABASH
 LA1637 USGS QUAD - WABASH (1994)

LA1637
 LA1637
 LA1637

*CURRENT SURVEY CONTROL

LA1637*	NAD 83(1986)-	40 48 45.	(N)	085 50 07.	(W)	SCALED
LA1637*	NAVD 88	- 235.069	(meters)	771.22	(feet)	ADJUSTED
LA1637	GEOID HEIGHT-	-34.20	(meters)			GEOID09
LA1637	DYNAMIC HT -	234.958	(meters)	770.86	(feet)	COMP
LA1637	MODELED GRAV-	980,143.9	(mgal)			NAVD 88
LA1637						

LA1637 VERT ORDER - FIRST CLASS II

LA1637

LA1637.The horizontal coordinates were scaled from a topographic map and have
LA1637.an estimated accuracy of +/- 6 seconds.

LA1637

LA1637.The orthometric height was determined by differential leveling and
LA1637.adjusted in June 1991.

LA1637

LA1637.Photographs are available for this station.

LA1637

LA1637.The geoid height was determined by GEOID09.

LA1637

LA1637.The dynamic height is computed by dividing the NAVD 88

LA1637.geopotential number by the normal gravity value computed on the

LA1637.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LA1637.degrees latitude (g = 980.6199 gals.).

LA1637

LA1637.The modeled gravity was interpolated from observed gravity values.

LA1637

LA1637;	North	East	Units	Estimated Accuracy
LA1637;SPC IN E -	617,750.	85,770.	MT	(+/- 180 meters Scaled)

LA1637

LA1637 SUPERSEDED SURVEY CONTROL

LA1637

LA1637 NGVD 29 (??/??/92)	235.194 (m)	771.63 (f)	ADJ UNCH	1 2
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LA1637

LA1637.Superseded values are not recommended for survey control.

LA1637.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LA1637.See file dsdata.txt to determine how the superseded data were derived.

LA1637

LA1637_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL982185(NAD 83)

LA1637_MARKER: DB = BENCH MARK DISK

LA1637_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LA1637_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LA1637_STAMPING: V 172 1946

LA1637_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LA1637+STABILITY: SURFACE MOTION

LA1637_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LA1637+SATELLITE: SATELLITE OBSERVATIONS - June 23, 2009

LA1637

LA1637 HISTORY	- Date	Condition	Report By
LA1637 HISTORY	- 1946	MONUMENTED	CGS
LA1637 HISTORY	- 20060908	GOOD	INDIV
LA1637 HISTORY	- 20080402	GOOD	ACCU
LA1637 HISTORY	- 20090623	GOOD	JCLS

LA1637

LA1637 STATION DESCRIPTION

LA1637

LA1637'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LA1637'0.7 MI NW FROM WABASH.

LA1637'ABOUT 0.7 MILE NORTHWEST ALONG STATE HIGHWAY 15 FROM ITS JUNCTION

LA1637'WITH U.S. HIGHWAY 24 AT WABASH, AT THE ENTRANCE TO THE

LA1637'WHITTENBERGER AIRPORT, 39 FEET NORTHEAST OF THE CENTER LINE OF

LA1637'HIGHWAY 15, 20 FEET NORTHWEST OF THE CENTER LINE OF THE ENTRANCE

LA1637'TO THE AIRPORT, 5.5 FEET NORTHWEST OF A FENCE CORNER, 3.3 FEET

LA1637'SOUTHEAST OF A TELEPHONE POLE, 1 FOOT SOUTHWEST OF THE FENCE LINE,

LA1637'ABOUT LEVEL WITH THE HIGHWAY, AND SET IN THE TOP OF A CONCRETE

LA1637'POST PROJECTING 4 IN.

LA1637

LA1637

STATION RECOVERY (2006)

LA1637

LA1637'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2006 (TPD)

LA1637'A STANDARD BENCH MARK DISK STAMPED V172 - 1946 IN CONCRETE FLUSH WITH THE GROUND IN GRASS AREA AT THE WEST END OF THE FIRST FEDERAL BANK OF WABASH (FFBW) AND IS LOCATED APPROXIMATELY 15 FT. EAST OF THE EAST EDGE OF PAVEMENT FOR S.R. 15 (CASS STREET), 35 FT. SOUTHWEST OF THE WESTERLY POINT OF THE FFBW SIGN, AND 45 FT. NORTH OF THE CENTERLINE OF THE SOUTHERLY ENTRANCE TO THE FFBW PARKING LOT.

LA1637

STATION RECOVERY (2008)

LA1637

LA1637'RECOVERY NOTE BY ACCU AIR SURVEYS INCORPORATED 2008 (WJC)

LA1637'RECOVERED IN GOOD CONDITION.

LA1637

STATION RECOVERY (2009)

LA1637

LA1637'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2009 (MRY)

LA1637'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LA1681 *****

LA1681 CBN - This is a Cooperative Base Network Control Station.

LA1681 DESIGNATION - M 178

LA1681 PID - LA1681

LA1681 STATE/COUNTY- IN/WABASH

LA1681 USGS QUAD - ROANN (1994)

LA1681

*CURRENT SURVEY CONTROL

LA1681

LA1681* NAD 83(2007)- 40 54 47.45710(N) 085 53 22.87209(W) ADJUSTED

LA1681* NAVD 88 - 233.982 (meters) 767.66 (feet) ADJUSTED

LA1681

LA1681 EPOCH DATE - 2002.00

LA1681 X - 345,989.235 (meters) COMP

LA1681 Y - -4,814,646.167 (meters) COMP

LA1681 Z - 4,155,272.920 (meters) COMP

LA1681 LAPLACE CORR- -0.30 (seconds) DEFLEC09

LA1681 ELLIP HEIGHT- 199.912 (meters) (02/10/07) ADJUSTED

LA1681 GEOID HEIGHT- -34.06 (meters) GEOID09

LA1681 DYNAMIC HT - 233.873 (meters) 767.30 (feet) COMP

LA1681

LA1681 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

LA1681 Type PID Designation North East Ellip

LA1681 -----

LA1681 NETWORK LA1681 M 178 1.02 0.69 2.41

LA1681 -----

LA1681 MODELED GRAV- 980,152.9 (mgal) NAVD 88

LA1681

LA1681 VERT ORDER - SECOND CLASS 0

LA1681

LA1681.The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in February 2007.

LA1681

LA1681.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

LA1681.See National Readjustment for more information.

LA1681.The horizontal coordinates are valid at the epoch date displayed above.

LA1681.The epoch date for horizontal control is a decimal equivalence

LA1681.of Year/Month/Day.

LA1681

LA1681.The orthometric height was determined by differential leveling and

LA1681.adjusted in June 1991.

LA1681

LA1681.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LA1681

LA1681.The Laplace correction was computed from DEFLEC09 derived deflections.

LA1681

LA1681.The ellipsoidal height was determined by GPS observations

LA1681.and is referenced to NAD 83.

LA1681

LA1681.The geoid height was determined by GEOID09.

LA1681

LA1681.The dynamic height is computed by dividing the NAVD 88

LA1681.geopotential number by the normal gravity value computed on the

LA1681.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LA1681.degrees latitude (g = 980.6199 gals.).

LA1681

LA1681.The modeled gravity was interpolated from observed gravity values.

LA1681

LA1681;	North	East	Units	Scale	Factor	Converg.
LA1681;SPC IN E	- 628,941.118	81,212.189	MT	0.99997101	-0 08	45.8
LA1681;SPC IN E	- 2,063,450.98	266,443.66	sFT	0.99997101	-0 08	45.8
LA1681;UTM 16	- 4,529,712.947	593,502.313	MT	0.99970760	+0 43	38.0

LA1681

LA1681! - Elev Factor x Scale Factor = Combined Factor

LA1681!SPC IN E - 0.99996864 x 0.99997101 = 0.99993965

LA1681!UTM 16 - 0.99996864 x 0.99970760 = 0.99967625

LA1681

LA1681 SUPERSEDED SURVEY CONTROL

LA1681

LA1681	NAD 83(1997)-	40 54 47.45700(N)	085 53 22.87182(W)	AD()	B
LA1681	ELLIP H (04/10/98)	199.939 (m)		GP()	4 1
LA1681	NAD 83(1986)-	40 54 47.46162(N)	085 53 22.88779(W)	AD()	3
LA1681	NAD 27	- 40 54 47.30933(N)	085 53 22.93508(W)	AD()	3
LA1681	NAVD 88 (04/10/98)	233.98 (m)	767.6 (f)	LEVELING	3
LA1681	NGVD 29 (??/??/92)	234.105 (m)	768.06 (f)	ADJ UNCH	2 0

LA1681

LA1681.Superseded values are not recommended for survey control.

LA1681.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LA1681.See file dsdata.txt to determine how the superseded data were derived.

LA1681

LA1681_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL9350229712(NAD 83)

LA1681_MARKER: DB = BENCH MARK DISK

LA1681_SETTING: 30 = SET IN A LIGHT STRUCTURE

LA1681_SP_SET: CULVERT HEADWALL

LA1681_STAMPING: M 178 1946

LA1681_MARK LOGO: CGS

LA1681_MAGNETIC: N = NO MAGNETIC MATERIAL

LA1681_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

LA1681_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LA1681+SATELLITE: SATELLITE OBSERVATIONS - August 08, 1997

LA1681

LA1681 HISTORY - Date Condition Report By

4/28/2011

DATASHEETS

LA1681 HISTORY - 1946 MONUMENTED CGS
LA1681 HISTORY - 19880705 GOOD NGS
LA1681 HISTORY - 19970808 GOOD SEC

LA1681

LA1681

STATION DESCRIPTION

LA1681

LA1681'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LA1681'2 MI E FROM ROANN.

LA1681'ABOUT 2.0 MILES EAST ALONG STATE HIGHWAY 16 FROM THE CROSS ROADS

LA1681'AT ROANN, AT THE INTERSECTION WITH STATE HIGHWAY 15, IN THE

LA1681'SOUTHWEST QUARTER OF THE INTERSECTION, SET IN THE TOP OF THE EAST

LA1681'END OF THE SOUTH CONCRETE HEADWALL OF A 24-INCH CONCRETE PIPE

LA1681'CULVERT UNDER HIGHWAY 16, 99 FEET WEST OF THE CENTER LINE OF

LA1681'HIGHWAY 15, 60 FEET SOUTH OF THE CENTER LINE OF HIGHWAY 16, 1.0

LA1681'FOOT WEST OF THE EAST END OF THE HEADWALL, ABOUT 1 FOOT BELOW

LA1681'THE LEVEL OF THE CENTER OF THE INTERSECTION.

LA1681

LA1681

STATION RECOVERY (1988)

LA1681

LA1681'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1988

LA1681'THE STATION IS LOCATED ABOUT 35.4 KM (22.00 MI) WEST OF HUNTINGTON,

LA1681'14.5 KM (9.00 MI) NORTHWEST OF WABASH, 3.2 KM (2.00 MI) EAST OF ROANN

LA1681'AND ON HIGHWAY RIGHT-OF-WAY. OWNERSHIP--INDIANA DEPARTMENT OF

LA1681'HIGHWAYS, 100 NORTH SENATE AVENUE, ROOM 1101, STATE OFFICE BUILDING,

LA1681'INDIANAPOLIS, IN 46204, PHONE 317-232-5533.

LA1681'TO REACH THE STATION FROM THE MAIN JUNCTION IN ROANN, GO EAST ON

LA1681'STATE HIGHWAY 16 FOR 3.2 KM (2.00 MI) TO THE INTERSECTION OF STATE

LA1681'HIGHWAY 15 AND THE MARK IN THE SOUTHWEST QUADRANT OF THE INTERSECTION

LA1681'IN THE TOP OF THE EAST END OF THE SOUTH CONCRETE HEADWALL OF A

LA1681'24-INCH CONCRETE PIPE CULVERT UNDER STATE HIGHWAY 16.

LA1681'THE STATION IS A STANDARD CGS BENCH MARK DISK STAMPED---M 178

LA1681'1946---, SET IN A DRILL HOLE IN TOP OF CONCRETE HEADWALL OF CULVERT.

LA1681'LOCATED 30.18 M (99.0 FT) WEST FROM CENTER OF STATE HIGHWAY 15, 18.29

LA1681'M (60.0 FT) SOUTH FROM CENTER OF STATE HIGHWAY 16, 0.30 M (1.0 FT)

LA1681'WEST FROM EAST END OF HEADWALL AND ABOUT 0.3 M (1.0 FT) BELOW LEVEL

LA1681'OF HIGHWAY. THE DISK HAS BEEN HIT BY MOWING EQUIPMENT. THE M 178 IS

LA1681'READABLE BUT 19 IS ALL THAT CAN BE READ OF THE YEAR.

LA1681'GPS SURVEY, FAA AIRPORTS, INDIANA.

LA1681'DESCRIBED BY D.L. ADAMS.

LA1681

LA1681

STATION RECOVERY (1997)

LA1681

LA1681'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

LA1681'THE STATION IS 22 MILES (35.4 KM) WEST OF HUNTINGTON, 9 MILES (14.5

LA1681'KM) NORTHWEST OF WABASH AND 2 MILES (3.2 KM) EAST OF ROANN. TO REACH

LA1681'THE STATION FROM THE INTERSECTION OF STATE ROAD 13 AND STATE ROAD 16,

LA1681'GO WEST ON STATE ROAD 16 FOR 5.0 MILES (8.0 KM) TO THE INTERSECTION OF

LA1681'STATE ROAD 15 AND THE STATION, IN THE SOUTHWEST QUADRANT OF THE

LA1681'INTERSECTION, IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--INDIANA

LA1681'DEPARTMENT OF TRANSPORTATION, 100 N. SENATE AVENUE, ROOM 1101, STATE

LA1681'OFFICE BUILDING, INDIANAPOLIS IN 46204, HENRY ALDRIDGE, PHONE

LA1681'317-232-6764. THE STATION IS SET IN A CONCRETE HEADWALL. DISK IS IN

LA1681'FAIR CONDITION SHOWING EVIDENCE OF BEING HIT WITH MOWING EQUIPMENT.

LA1681'DATUM POINT IS BARELY VISIBLE. IT IS 30.1 METERS (98.8 FT) WEST OF

LA1681'CENTERLINE OF STATE ROAD 15, 18.3 METERS (60.0 FT) SOUTH OF CENTERLINE

LA1681'OF STATE ROAD 16, 0.3 METERS (1.0 FT) WEST OF EAST END OF 2.6 METER

LA1681'(8.5 FT) LONG HEADWALL OF A 24-INCH CONCRETE PIPE RUNNING UNDER STATE

LA1681'ROAD 16, ABOUT 0.5 METERS (1.6 FT) BELOW LEVEL OF HIGHWAYS.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LA1728 *****

LA1728 DESIGNATION - D 204
LA1728 PID - LA1728
LA1728 STATE/COUNTY- IN/GRANT
LA1728 USGS QUAD - MARION (1992)

LA1728
LA1728 *CURRENT SURVEY CONTROL

LA1728* NAD 83(1986)- 40 36 49. (N) 085 38 38. (W) SCALED
LA1728* NAVD 88 - 264.825 (meters) 868.85 (feet) ADJUSTED

LA1728 GEOID HEIGHT- -34.30 (meters) GEOID09
LA1728 DYNAMIC HT - 264.693 (meters) 868.41 (feet) COMP
LA1728 MODELED GRAV- 980,117.4 (mgal) NAVD 88

LA1728 VERT ORDER - SECOND CLASS 0

LA1728.The horizontal coordinates were scaled from a topographic map and have
LA1728.an estimated accuracy of +/- 6 seconds.

LA1728.The orthometric height was determined by differential leveling and
LA1728.adjusted in June 1991.

LA1728.The geoid height was determined by GEOID09.

LA1728.The dynamic height is computed by dividing the NAVD 88
LA1728.geopotential number by the normal gravity value computed on the
LA1728.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LA1728.degrees latitude (g = 980.6199 gals.).

LA1728.The modeled gravity was interpolated from observed gravity values.

LA1728; North East Units Estimated Accuracy
LA1728;SPC IN E - 595,650. 101,930. MT (+/- 180 meters Scaled)

LA1728 SUPERSEDED SURVEY CONTROL

LA1728 NGVD 29 (??/??/92) 264.952 (m) 869.26 (f) ADJ UNCH 2 0

LA1728.Superseded values are not recommended for survey control.
LA1728.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LA1728.See file dsdata.txt to determine how the superseded data were derived.

LA1728_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TFK147967(NAD 83)

LA1728_MARKER: DB = BENCH MARK DISK

LA1728_SETTING: 30 = SET IN A LIGHT STRUCTURE

LA1728_SP_SET: CULVERT

LA1728_STAMPING: D 204 1946

LA1728_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

LA1728_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LA1728+SATELLITE: SATELLITE OBSERVATIONS - February 28, 2006

LA1728 HISTORY - Date Condition Report By
LA1728 HISTORY - 1946 MONUMENTED CGS
LA1728 HISTORY - 20060228 GOOD HANPRO

4/28/2011

DATASHEETS

LA1728 HISTORY - 20100223 GOOD FARNGP

LA1728

LA1728

STATION DESCRIPTION

LA1728

LA1728'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LA1728'3.2 MI NE FROM MARION.

LA1728'ABOUT 3.2 MILES NORTHEAST ALONG STATE HIGHWAYS 9 AND 37 FROM THE

LA1728'INTERSECTION OF STATE HIGHWAY 15 AT MARION, 0.35 MILE SOUTHWEST

LA1728'OF A CROSS ROAD AND CHURCH, SET IN THE TOP OF THE NORTHEAST END

LA1728'OF THE NORTHWEST HEAD WALL OF A 3 FOOT CONCRETE CULVERT, 27 FEET

LA1728'NORTHWEST AND ABOUT LEVEL WITH THE CENTER LINE OF THE HIGHWAY.

LA1728

LA1728

STATION RECOVERY (2006)

LA1728

LA1728'RECOVERY NOTE BY HANSON PROFESSIONAL SERVICES INC 2006 (RLW)

LA1728'HEADWALL MARK IS IN IS DETERIATING BADLY. DISK IS STILL SOLID.

LA1728

LA1728

STATION RECOVERY (2010)

LA1728

LA1728

LA1728'RECOVERY NOTE BY FARNSWORTH GROUP 2010 (BRD)

LA1728'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LA1838 *****

LA1838 CBN - This is a Cooperative Base Network Control Station.

LA1838 DESIGNATION - E 173

LA1838 PID - LA1838

LA1838 STATE/COUNTY- IN/WABASH

LA1838 USGS QUAD - SOMERSET (1994)

LA1838

LA1838

*CURRENT SURVEY CONTROL

LA1838

LA1838* NAD 83(2007)- 40 42 33.39320(N) 085 49 40.14327(W) ADJUSTED

LA1838* NAVD 88 - 245.804 (meters) 806.44 (feet) ADJUSTED

LA1838

LA1838 EPOCH DATE - 2002.00

LA1838 X - 352,265.365 (meters) COMP

LA1838 Y - -4,829,039.083 (meters) COMP

LA1838 Z - 4,138,141.531 (meters) COMP

LA1838 LAPLACE CORR- 0.01 (seconds) DEFLECO9

LA1838 ELLIP HEIGHT- 211.487 (meters) (02/10/07) ADJUSTED

LA1838 GEOID HEIGHT- -34.31 (meters) GEOID09

LA1838 DYNAMIC HT - 245.683 (meters) 806.04 (feet) COMP

LA1838

LA1838 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

LA1838 Type PID Designation North East Ellip

LA1838 -----

LA1838 NETWORK LA1838 E 173 0.82 0.55 1.92

LA1838 -----

LA1838 MODELED GRAV- 980,130.1 (mgal) NAVD 88

LA1838

LA1838 VERT ORDER - SECOND CLASS 0

LA1838

LA1838.The horizontal coordinates were established by GPS observations

LA1838.and adjusted by the National Geodetic Survey in February 2007.

LA1838

LA1838.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

LA1838.See National Readjustment for more information.

LA1838.The horizontal coordinates are valid at the epoch date displayed above.

LA1838.The epoch date for horizontal control is a decimal equivalence

LA1838.of Year/Month/Day.

LA1838

LA1838.The orthometric height was determined by differential leveling and

LA1838.adjusted in June 1991.

LA1838

LA1838.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LA1838

LA1838.The Laplace correction was computed from DEFLEC09 derived deflections.

LA1838

LA1838.The ellipsoidal height was determined by GPS observations

LA1838.and is referenced to NAD 83.

LA1838

LA1838.The geoid height was determined by GEOID09.

LA1838

LA1838.The dynamic height is computed by dividing the NAVD 88

LA1838.geopotential number by the normal gravity value computed on the

LA1838.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LA1838.degrees latitude (g = 980.6199 gals.).

LA1838

LA1838.The modeled gravity was interpolated from observed gravity values.

LA1838

LA1838;	North	East	Units	Scale	Factor	Converg.
LA1838;SPC IN E	- 606,286.530	86,382.590	MT	0.99996895	-0 06 18.4	
LA1838;SPC IN E	- 1,989,125.06	283,406.88	sFT	0.99996895	-0 06 18.4	
LA1838;UTM 16	- 4,507,145.395	599,015.274	MT	0.99972067	+0 45 52.5	

LA1838

LA1838! - Elev Factor x Scale Factor = Combined Factor

LA1838!SPC IN E - 0.99996683 x 0.99996895 = 0.99993578

LA1838!UTM 16 - 0.99996683 x 0.99972067 = 0.99968751

LA1838

LA1838

SUPERSEDED SURVEY CONTROL

LA1838

LA1838	NAD 83(1997)-	40 42 33.39312(N)	085 49 40.14299(W)	AD()	B
LA1838	ELLIP H (04/10/98)	211.514 (m)		GP()	4 1
LA1838	NAD 83(1986)-	40 42 33.39913(N)	085 49 40.15962(W)	AD()	3
LA1838	NAD 27	- 40 42 33.24031(N)	085 49 40.21695(W)	AD()	3
LA1838	NAVD 88 (04/10/98)	245.80 (m)	806.4 (f)	LEVELING	3
LA1838	NGVD 29 (??/??/92)	245.930 (m)	806.86 (f)	ADJ UNCH	2 0

LA1838

LA1838.Superseded values are not recommended for survey control.

LA1838.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LA1838.See file dsdata.txt to determine how the superseded data were derived.

LA1838

LA1838_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL9901507145(NAD 83)

LA1838_MARKER: DB = BENCH MARK DISK

LA1838_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LA1838_SP_SET: CONCRETE POST

LA1838_STAMPING: E 173 1946

LA1838_MARK LOGO: CGS

LA1838_MAGNETIC: N = NO MAGNETIC MATERIAL

LA1838_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LA1838+STABILITY: SURFACE MOTION

LA1838_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LA1838+SATELLITE: SATELLITE OBSERVATIONS - August 08, 1997

LA1838

4/28/2011

DATASHEETS

LA1838	HISTORY	- Date	Condition	Report By
LA1838	HISTORY	- 1946	MONUMENTED	CGS
LA1838	HISTORY	- 19880710	GOOD	NGS
LA1838	HISTORY	- 19901015	GOOD	NGS
LA1838	HISTORY	- 19970808	GOOD	SEC

LA1838

LA1838

LA1838

STATION DESCRIPTION

LA1838'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LA1838'2.8 MI N FROM MOUNT VERNON.

LA1838'ABOUT 2.75 MILES NORTH ALONG STATE HIGHWAY 13 FROM THE CROSSROADS
LA1838'AT MOUNT VERNON, ABOUT 1.0 MILE NORTH OF THE CHURCH OF THE BRETHREN,
LA1838'AT THE PRESTON PEEBLES FARM, 157 FEET NORTHEAST OF THE NORTHEAST
LA1838'CORNER OF A HAY BARN, 85 FEET NORTH OF POWER POLE NO. 6-202/356,
LA1838'40 FEET WEST OF THE CENTER LINE OF THE HIGHWAY, 3 FEET NORTH OF A
LA1838'STEEL FENCE CORNER POST, 1 FOOT EAST OF THE FENCE LINE, ABOUT
LA1838'LEVEL WITH THE HIGHWAY, AND SET IN THE TOP OF A CONCRETE POST
LA1838'PROJECTING 5 INCHES.

LA1838

LA1838

LA1838

STATION RECOVERY (1988)

LA1838'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1988

LA1838'THE STATION IS LOCATED ABOUT 25.7 KM (15.95 MI) NORTHEAST OF MARION,
LA1838'24.1 KM (15.00 MI) EAST OF PERU, 10.5 KM (6.50 MI) SOUTH OF WABASH
LA1838'AND ON HIGHWAY RIGHT-OF-WAY. OWNERSHIP--INDIANA DEPARTMENT OF
LA1838'HIGHWAYS, 100 NORTH SENATE AVENUE, ROOM 1101, STATE OFFICE BUILDING,
LA1838'INDIANAPOLIS, IN 46204, PHONE 317-232-5533.
LA1838'TO REACH THE STATION FROM THE COURTHOUSE IN WABASH, GO SOUTH ON STATE
LA1838'HIGHWAYS 15 AND 13 FOR 2.01 KM (1.25 MI) TO WHERE STATE HIGHWAY 13
LA1838'TURNS TO THE RIGHT. TURN RIGHT AND CONTINUE SOUTH ON STATE HIGHWAY
LA1838'13 FOR 8.21 KM (5.10 MI) TO MARK ON THE RIGHT BY A FIELD ENTRANCE
LA1838'ROAD AT SECTION LINE.
LA1838'THE STATION IS A STANDARD CGS BENCH MARK DISK STAMPED---E 173
LA1838'1946---, SET IN THE TOP OF A SQUARE CONCRETE MONUMENT. LOCATED 12.19
LA1838'M (40.0 FT) WEST FROM CENTER OF STATE HIGHWAY 13, 0.91 M (3.0 FT)
LA1838'NORTH FROM A STEEL SECTION LINE MARKER AND FENCE POST AND 0.31 M
LA1838'(1.0 FT) SOUTH FROM A WITNESS POST.
LA1838'GPS SURVEY, FAA AIRPORTS, INDIANA.
LA1838'DESCRIBED BY D.L. ADAMS.

LA1838

LA1838

LA1838

STATION RECOVERY (1990)

LA1838'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990

LA1838'THE STATION IS LOCATED ABOUT 40.23 KM (25.00 MI) SOUTH-SOUTHWEST OF
LA1838'HUNTINGTON, 25.7 KM (16.0 MI) NORTHEAST OF MARION, 24.1 KM (15.0 MI)
LA1838'EAST OF PERU, 10.5 KM (6.5 MI) SOUTH OF WABASH AND ON THE WEST SIDE OF
LA1838'STATE HIGHWAY 13 RIGHT-OF-WAY. IT IS ALSO 3.38 KM (2.10 MI) SOUTH OF
LA1838'THE JUNCTION OF STATE HIGHWAY 124. OWNERSHIP--INDIANA DEPARTMENT OF
LA1838'HIGHWAYS, 100 NORTH SENATE AVENUE, ROOM 1101, STATE OFFICE BUILDING,
LA1838'INDIANAPOLIS, IN 46204, PHONE 317-232-5533.
LA1838'TO REACH THE STATION FROM THE COURTHOUSE IN THE CENTER OF WABASH,
LA1838'LOCATED ON COMBINED STATE HIGHWAYS 13 AND 15, GO SOUTH ON COMBINED
LA1838'STATE HIGHWAYS 13 AND 15 FOR 2.01 KM (1.25 MI) TO THE POINT WHERE
LA1838'STATE HIGHWAY 13 TURNS RIGHT AND STATE HIGHWAY 15 CONTINUES STRAIGHT
LA1838'AHED, TURN RIGHT, SOUTH, ON STATE HIGHWAY 13 FOR 5.39 KM (3.35 MI)
LA1838'TO THE JUNCTION OF STATE HIGHWAY 124, CONTINUE AHEAD ON STATE HIGHWAY
LA1838'13 FOR 3.38 KM (2.10 MI) TO THE STATION ON THE RIGHT AT A FIELD

LA1838'ENTRANCE ROAD AND ON THE NORTHEAST SIDE OF A LONE METAL I-BEAM
 LA1838'MARKING THE CULTIVATED FIELD PROPERTY LINE.
 LA1838'THE STATION IS ABOUT FLUSH WITH THE GROUND LOCATED 21.0 M (68.9 FT)
 LA1838'SOUTH OF A POWER POLE, 12.1 M (39.7 FT) WEST OF THE CENTER OF HIGHWAY
 LA1838'13, 0.7 M (2.3 FT) NORTHEAST OF A LONE METAL I-BEAM PROJECTING ABOUT
 LA1838'6.4 M (21.0 FT) ABOVE THE GROUND AND MARKING THE CULTIVATED FIELD
 LA1838'PROPERTY LINE AND 0.3 M (1.0 FT) SOUTH OF A FIBERGLASS WITNESS POST.
 LA1838

STATION RECOVERY (1997)

LA1838'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)
 LA1838'THE STATION IS LOCATED ABOUT 40.23 KILOMETERS (25.00 MI)
 LA1838'SOUTH-SOUTHWEST OF HUNTINGTON, 25.7 KILOMETERS (15.95 MI) NORTHEAST OF
 LA1838'MARION, 24.1 KILOMETERS (14.95 MI) EAST OF PERU, 10.5 KILOMETERS (6.50
 LA1838'MI) SOUTH OF WABASH, ON THE WEST SIDE OF STATE ROAD 13 RIGHT-OF-WAY,
 LA1838'3.22 KILOMETERS (2.00 MI) SOUTH OF JUNCTION STATE ROAD 124.
 LA1838'OWNERSHIP--INDIANA DEPARTMENT OF TRANSPORTATION, 100 NORTH SENATE
 LA1838'AVENUE, INDIANAPOLIS IN 46204. TO REACH STATION FROM THE COURTHOUSE
 LA1838'IN CENTER OF WABASH, LOCATED ON STATE ROADS 13 AND 15, GO SOUTH ON
 LA1838'STATE ROADS 13 AND 15 FOR 2.01 KILOMETERS (1.25 MI) TO THE POINT WHERE
 LA1838'STATE ROAD 13 TURNS RIGHT AND STATE ROAD 15 CONTINUES STRAIGHT. TURN
 LA1838'RIGHT, SOUTH ON STATE ROAD 13 FOR 5.15 KILOMETERS (3.20 MI) TO THE
 LA1838'JUNCTION OF STATE ROAD 124. CONTINUE AHEAD SOUTH FOR 3.22 KILOMETERS
 LA1838'(2.00 MI) TO THE STATION ON THE RIGHT, AT A FARM FIELD ENTRANCE AND ON
 LA1838'NORTHEAST SIDE OF A LONE METAL I-BEAM MARKING CULTIVATED FIELD
 LA1838'PROPERTY LINE SECTION LINE. STATION PROJECTS 0.1 METERS (0.3 FT)
 LA1838'ABOVE GROUND. LOCATED 21.0 METERS (68.9 FT) SOUTH OF POWER POLE
 LA1838'234283, 12.1 METERS (39.7 FT) WEST OF THE CENTER OF HIGHWAY 13, 0.7
 LA1838'METERS (2.3 FT) NORTHEAST OF A LONE METAL I-BEAM PROJECTING ABOUT 1.3
 LA1838'METERS (4.3 FT) ABOVE GROUND MARKING PROPERTY LINE BETWEEN CULTIVATED
 LA1838'FIELD AND 0.3 METERS (1.0 FT) SOUTH OF A FIBERGLASS WITNESS POST.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LA1890 *****

LA1890 DESIGNATION - A 192
 LA1890 PID - LA1890
 LA1890 STATE/COUNTY- IN/HOWARD
 LA1890 USGS QUAD - AMBOY (1994)

*CURRENT SURVEY CONTROL

LA1890*	NAD 83(1986)-	40 33 51.	(N)	085 58 36.	(W)	SCALED
LA1890*	NAVD 88	- 253.092	(meters)	830.35	(feet)	ADJUSTED
LA1890	GEOID HEIGHT-	-34.37	(meters)			GEOID09
LA1890	DYNAMIC HT -	252.964	(meters)	829.93	(feet)	COMP
LA1890	MODELED GRAV-	980,112.5	(mgal)			NAVD 88

LA1890 VERT ORDER - SECOND CLASS 0

LA1890.The horizontal coordinates were scaled from a topographic map and have
 LA1890.an estimated accuracy of +/- 6 seconds.

LA1890.The orthometric height was determined by differential leveling and
 LA1890.adjusted in June 1991.

LA1890.The geoid height was determined by GEOID09.

LA1890.The dynamic height is computed by dividing the NAVD 88
 LA1890.geopotential number by the normal gravity value computed on the
 LA1890.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 LA1890.degrees latitude (g = 980.6199 gals.).

LA1890

LA1890.The modeled gravity was interpolated from observed gravity values.

LA1890

LA1890;	North	East	Units	Estimated Accuracy
LA1890;SPC IN E	- 590,210.	73,750.	MT	(+/- 180 meters Scaled)

LA1890

LA1890 SUPERSEDED SURVEY CONTROL

LA1890

LA1890	NGVD 29 (??/??/92)	253.217 (m)	830.76 (f)	ADJ UNCH	2 0
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LA1890

LA1890.Superseded values are not recommended for survey control.

LA1890.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LA1890.See file dsdata.txt to determine how the superseded data were derived.

LA1890

LA1890_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEK866908(NAD 83)

LA1890_MARKER: DB = BENCH MARK DISK

LA1890_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LA1890_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LA1890_STAMPING: A 192 1946

LA1890_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LA1890+STABILITY: SURFACE MOTION

LA1890_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LA1890+SATELLITE: SATELLITE OBSERVATIONS - April 01, 2010

LA1890

LA1890	HISTORY	- Date	Condition	Report By
LA1890	HISTORY	- 1946	MONUMENTED	CGS
LA1890	HISTORY	- 1960	GOOD	USGS
LA1890	HISTORY	- 20100401	GOOD	INDIV

LA1890

LA1890 STATION DESCRIPTION

LA1890

LA1890'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LA1890'2 MI N FROM PLEVANA.

LA1890'ABOUT 2.0 MILES NORTH ALONG A GRAVEL ROAD FROM THE DUNKARD BRETHERN

LA1890'CHURCH AT HOWARD-MIAMI COUNTY LINE CROSS ROAD, 32 FEET SOUTH

LA1890'OF THE COUNTY LINE ROAD, 25 FEET WEST OF THE CENTER LINE OF THE

LA1890'NORTH-SOUTH ROAD, 15 FEET SOUTHWEST OF POWER POLE NO. 6/201/441,

LA1890'13 FEET SOUTH OF A FENCE CORNER, 1 FOOT EAST OF THE FENCE LINE,

LA1890'ABOUT LEVEL WITH THE INTERSECTION AND SET IN THE TOP OF A

LA1890'CONCRETE POST PROJECTING 6 INCHES. NOTE-- MARK MAY BE REACHED

LA1890'FROM THE UNITED BRETHERN CHURCH AT WAWPECONG BY GOING ABOUT

LA1890'3.6 MILES EAST ALONG STATE HIGHWAY 18, THENCE ABOUT 1.0 MILE

LA1890'SOUTH ALONG A GRAVEL ROAD AND SITE OF MARK. NOTE-- USE WITH

LA1890'CAUTION.

LA1890

LA1890 STATION RECOVERY (1960)

LA1890

LA1890'RECOVERY NOTE BY US GEOLOGICAL SURVEY 1960

LA1890'RECOVERED IN GOOD CONDITION.

LA1890

LA1890 STATION RECOVERY (2010)

LA1890

LA1890'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2010 (MRH)

LA1890'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB0066 *****

LB0066 DESIGNATION - F 26
LB0066 PID - LB0066
LB0066 STATE/COUNTY- IN/CASS
LB0066 USGS QUAD - ANOKA (1980)

LB0066 *CURRENT SURVEY CONTROL

LB0066* NAD 83(1986)- 40 43 19. (N) 086 16 54. (W) SCALED
LB0066* NAVD 88 - 216.371 (meters) 709.88 (feet) ADJUSTED

LB0066 GEOID HEIGHT- -34.22 (meters) GEOID09
LB0066 DYNAMIC HT - 216.267 (meters) 709.54 (feet) COMP
LB0066 MODELED GRAV- 980,138.0 (mgal) NAVD 88

LB0066 VERT ORDER - SECOND CLASS 0

LB0066.The horizontal coordinates were scaled from a topographic map and have
LB0066.an estimated accuracy of +/- 6 seconds.

LB0066.The orthometric height was determined by differential leveling and
LB0066.adjusted in June 1991.

LB0066.The geoid height was determined by GEOID09.

LB0066.The dynamic height is computed by dividing the NAVD 88
LB0066.geopotential number by the normal gravity value computed on the
LB0066.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LB0066.degrees latitude (g = 980.6199 gals.).

LB0066.The modeled gravity was interpolated from observed gravity values.

LB0066; North East Units Estimated Accuracy
LB0066;SPC IN E - 607,860. 48,040. MT (+/- 180 meters Scaled)

LB0066 SUPERSEDED SURVEY CONTROL

LB0066 NGVD 29 (??/??/92) 216.483 (m) 710.24 (f) ADJ UNCH 2 0

LB0066.Superseded values are not recommended for survey control.
LB0066.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LB0066.See file dsdata.txt to determine how the superseded data were derived.

LB0066_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL606081(NAD 83)

LB0066_MARKER: DB = BENCH MARK DISK

LB0066_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB0066_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LB0066_STAMPING: F 26 1934

LB0066_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB0066+STABILITY: SURFACE MOTION

LB0066 HISTORY - Date Condition Report By

LB0066 HISTORY - 1934 MONUMENTED CGS

LB0066 HISTORY - 1969 GOOD NGS

LB0066

STATION DESCRIPTION

LB0066

LB0066

LB0066'DESCRIBED BY NATIONAL GEODETIC SURVEY 1969

LB0066'4.8 MI NW FROM WALTON.

LB0066'4.8 MILES NORHTWEST ALONG THE CHICAGO-CINCINNATI LINE OF THE

LB0066'PENNSYLVANIA RAILROAD FROM THE STATION AT WALTON, CASS COUNTY,

LB0066'0.4 MILE SOUTHEAST OF ANOKA JUNCTION, 27 RAILS SOUTHEAST OF

LB0066'MILEPOST C 177, IN THE EAST ANGLE OF A GRAVEL-ROAD CROSSING,

LB0066'50 YARDS SOUTHWEST OFF THE ANOKA GENERAL STORE, 9 YARDS SOUTHEAST

LB0066'OF THE CENTERLINE OF THE ROAD, 5-1/2 YARDS NORTHEAST OF THE

LB0066'NORTHEAST RAIL, AND 1 YARD SOUTHWEST OF A FENCE LINE. A STANDARD

LB0066'DISK, STAMPED F 26 1934 AND SET IN THE TOP OF A CONCRETE POST

LB0066'PROJECTING 10 INCHES ABOVE GROUND.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB0178 *****

LB0178 DESIGNATION - V 181

LB0178 PID - LB0178

LB0178 STATE/COUNTY- IN/CASS

LB0178 USGS QUAD - TWELVE MILE (1991)

LB0178

LB0178 *CURRENT SURVEY CONTROL

LB0178

LB0178* NAD 83(1986)- 40 51 10. (N) 086 13 29. (W) SCALED

LB0178* NAVD 88 - 232.645 (meters) 763.27 (feet) ADJUSTED

LB0178

LB0178 GEOID HEIGHT- -33.96 (meters) GEOID09

LB0178 DYNAMIC HT - 232.538 (meters) 762.92 (feet) COMP

LB0178 MODELED GRAV- 980,158.7 (mgal) NAVD 88

LB0178

LB0178 VERT ORDER - SECOND CLASS 0

LB0178

LB0178.The horizontal coordinates were scaled from a topographic map and have

LB0178.an estimated accuracy of +/- 6 seconds.

LB0178

LB0178.The orthometric height was determined by differential leveling and

LB0178.adjusted in June 1991.

LB0178

LB0178.The geoid height was determined by GEOID09.

LB0178

LB0178.The dynamic height is computed by dividing the NAVD 88

LB0178.geopotential number by the normal gravity value computed on the

LB0178.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LB0178.degrees latitude (g = 980.6199 gals.).

LB0178

LB0178.The modeled gravity was interpolated from observed gravity values.

LB0178

LB0178; North East Units Estimated Accuracy

LB0178;SPC IN E - 622,360. 52,950. MT (+/- 180 meters Scaled)

LB0178

LB0178 SUPERSEDED SURVEY CONTROL

LB0178

LB0178 NGVD 29 (??/??/92) 232.763 (m) 763.66 (f) ADJ UNCH 2 0

LB0178

LB0178.Superseded values are not recommended for survey control.

LB0178.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LB0178.See file dsdata.txt to determine how the superseded data were derived.

LB0178

LB0178_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL653227(NAD 83)
 LB0178_MARKER: DB = BENCH MARK DISK
 LB0178_SETTING: 30 = SET IN A LIGHT STRUCTURE
 LB0178_SP_SET: PIPE CULVERT
 LB0178_STAMPING: V 181 1946
 LB0178_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

LB0178
 LB0178 HISTORY - Date Condition Report By
 LB0178 HISTORY - 1946 MONUMENTED CGS
 LB0178 HISTORY - 1989 GOOD USPSQD

LB0178 STATION DESCRIPTION

LB0178'DESCRIBED BY COAST AND GEODETIC SURVEY 1946
 LB0178'1 MI S FROM TWELVE MILE.
 LB0178'ABOUT 0.95 MILE SOUTH ALONG A ROAD LEADING TO HOOVERS FROM THE
 LB0178'SCHOOL AT TWELVE MILE, ABOUT 125 YARDS NORTH OF THE INTERSECTION
 LB0178'OF AN EAST-WEST GRAVEL ROAD, SET IN THE TOP OF THE NORTH END
 LB0178'OF THE EAST CONCRETE HEAD WALL OF A 2 FOOT PIPE CULVERT, 15 FEET
 LB0178'EAST OF THE CENTER LINE OF THE ROAD, 1 FOOT SOUTH OF THE NORTH
 LB0178'END OF THE HEAD WALL, AND ABOUT LEVEL WITH THE ROAD.

LB0178 STATION RECOVERY (1989)

LB0178'RECOVERY NOTE BY US POWER SQUADRON 1989 (TCR)
 LB0178'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB0247 *****

LB0247 CBN - This is a Cooperative Base Network Control Station.
 LB0247 DESIGNATION - T 179
 LB0247 PID - LB0247
 LB0247 STATE/COUNTY- IN/MIAMI
 LB0247 USGS QUAD - DEEDSVILLE (1992)

LB0247 *CURRENT SURVEY CONTROL

LB0247* NAD 83(2007)- 40 53 42.13270(N) 086 01 38.99593(W) ADJUSTED
 LB0247* NAVD 88 - 244.452 (meters) 802.01 (feet) ADJUSTED

LB0247 EPOCH DATE - 2002.00
 LB0247 X - 334,499.655 (meters) COMP
 LB0247 Y - -4,816,788.724 (meters) COMP
 LB0247 Z - 4,153,756.719 (meters) COMP
 LB0247 LAPLACE CORR- -1.47 (seconds) DEFLEC09
 LB0247 ELLIP HEIGHT- 210.425 (meters) (02/10/07) ADJUSTED
 LB0247 GEOID HEIGHT- -34.03 (meters) GEOID09
 LB0247 DYNAMIC HT - 244.337 (meters) 801.63 (feet) COMP

LB0247 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

LB0247 Type PID Designation North East Ellip
 LB0247 NETWORK LB0247 T 179 0.76 0.51 1.78

LB0247 MODELED GRAV- 980,151.2 (mgal) NAVD 88

LB0247 VERT ORDER - SECOND CLASS 0

LB0247

LB0247.The horizontal coordinates were established by GPS observations
 LB0247.and adjusted by the National Geodetic Survey in February 2007.
 LB0247
 LB0247.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
 LB0247.See National Readjustment for more information.
 LB0247.The horizontal coordinates are valid at the epoch date displayed above.
 LB0247.The epoch date for horizontal control is a decimal equivalence
 LB0247.of Year/Month/Day.
 LB0247

LB0247.The orthometric height was determined by differential leveling and
 LB0247.adjusted in June 1991.
 LB0247

LB0247.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 LB0247

LB0247.The Laplace correction was computed from DEFLEC09 derived deflections.
 LB0247

LB0247.The ellipsoidal height was determined by GPS observations
 LB0247.and is referenced to NAD 83.
 LB0247

LB0247.The geoid height was determined by GEOID09.
 LB0247

LB0247.The dynamic height is computed by dividing the NAVD 88
 LB0247.geopotential number by the normal gravity value computed on the
 LB0247.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 LB0247.degrees latitude (g = 980.6199 gals.).
 LB0247

LB0247.The modeled gravity was interpolated from observed gravity values.
 LB0247

LB0247;		North	East	Units	Scale Factor	Converg.
LB0247;SPC IN E	-	626,964.806	69,594.190	MT	0.99997804	-0 14 10.4
LB0247;SPC IN E	-	2,056,967.03	228,326.94	sFT	0.99997804	-0 14 10.4
LB0247;UTM 16	-	4,527,560.431	581,919.016	MT	0.99968259	+0 38 12.1
LB0247!	-	Elev Factor	x	Scale Factor	=	Combined Factor
LB0247!SPC IN E	-	0.99996699	x	0.99997804	=	0.99994503
LB0247!UTM 16	-	0.99996699	x	0.99968259	=	0.99964959

LB0247

LB0247 SUPERSEDED SURVEY CONTROL

LB0247

LB0247	NAD 83(1997)-	40 53 42.13258(N)	086 01 38.99575(W)	AD()	B
LB0247	ELLIP H (04/10/98)	210.451 (m)		GP()	4 1
LB0247	NAVD 88 (04/10/98)	244.45 (m)	802.0	(f) LEVELING	3
LB0247	NGVD 29 (??/??/92)	244.573 (m)	802.40	(f) ADJ UNCH	2 0

LB0247

LB0247.Superseded values are not recommended for survey control.
 LB0247.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 LB0247.See file dsdata.txt to determine how the superseded data were derived.
 LB0247

LB0247_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL8191927560(NAD 83)

LB0247_MARKER: DB = BENCH MARK DISK

LB0247_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB0247_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LB0247_STAMPING: T 179 1946

LB0247_MARK LOGO: CGS

LB0247_PROJECTION: PROJECTING 2 CENTIMETERS

LB0247_MAGNETIC: N = NO MAGNETIC MATERIAL

LB0247_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB0247+STABILITY: SURFACE MOTION

LB0247_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LB0247+SATELLITE: SATELLITE OBSERVATIONS - February 17, 2006

LB0247

LB0247	HISTORY	- Date	Condition	Report By
LB0247	HISTORY	- 1946	MONUMENTED	CGS
LB0247	HISTORY	- 1989	GOOD	USPSQD
LB0247	HISTORY	- 19970807	GOOD	SEC
LB0247	HISTORY	- 20060217	GOOD	EVANS

LB0247

LB0247

STATION DESCRIPTION

LB0247

LB0247'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LB0247'2.6 MI N FROM CHILI.

LB0247'ABOUT 2.55 MILES NORTH ALONG STATE HIGHWAY 19 FROM THE POST

LB0247'OFFICE AT CHILI, ABOUT 100 YARDS SOUTH OF THE DOUGS APPLE PACKING

LB0247'HOUSE, SET IN THE SOUTHEAST CORNER OF AN APPLE ORCHARD ON THE WEST

LB0247'SIDE OF THE HIGHWAY, 22 FEET WEST OF THE CENTER LINE OF THE

LB0247'HIGHWAY, 11 FEET SOUTHWEST OF A POWER POLE WITH A TRANSFORMER

LB0247'(POLE NO. 131/945, 3 FEET WEST OF A 16 INCH CONCRETE FENCE CORNER

LB0247'POST, 1 FOOT NORTH OF THE FENCE LINE RUNNING WEST, ABOUT 1 FOOT

LB0247'ABOVE THE HIGHWAY, AND SET IN THE TOP OF A CONCRETE POST PROJECTING

LB0247'6 INCHES.

LB0247

LB0247

STATION RECOVERY (1989)

LB0247

LB0247'RECOVERY NOTE BY US POWER SQUADRON 1989 (TCR)

LB0247'RECOVERED IN GOOD CONDITION.

LB0247

LB0247

STATION RECOVERY (1997)

LB0247

LB0247'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

LB0247'STATION IS 2.5 MILES (4.0 KM) NORTH OF CHILI. TO REACH STATION FROM

LB0247'THE STATE HIGHWAY 19 BRIDGE OVER THE EEL RIVER IN CHILI, GO NORTH ON

LB0247'STATE HIGHWAY 19 FOR 2.5 MILES (4.0 KM) TO THE STATION, ON THE WEST

LB0247'SIDE OF HIGHWAY. THE STATION IS 62.6 METERS (205.4 FT) SOUTH OF THE

LB0247'SOUTH LINE OF CERAMIC BLOCK BARN ON DOUD ORCHARDS PROPERTY, 101.5

LB0247'METERS (333.0 FT) SOUTH OF THE CENTERLINE OF COUNTRY ROAD 900 NORTH,

LB0247'6.5 METERS (21.3 FT) WEST OF THE CENTERLINE OF STATE HIGHWAY 19

LB0247'(COUNTY ROAD 250 EAST AND STATE HIGHWAY 16), 0.41 METERS (1.35 FT)

LB0247'NORTH OF AN EAST-WEST WOVEN WIRE FENCE. THE NORTHWEST CORNER OF THE

LB0247'CONCRETE FENCE POST OF THE EAST-WEST FENCE IS 0.63 METERS (2.07 FT) AT

LB0247'MAG AZIMUTH OF 121 DEGREES. A POWER POLE IS 2.35 METERS (7.71 FT) AT

LB0247'MAG AZIMUTH OF 44 DEGREES. THE STATION IS AT THE SOUTHEAST CORNER OF

LB0247'DEAN COWLES PROPERTY. ADDRESS IS RT 1, DENVER IN 46926. STATION IS

LB0247'PROBABLY IN STATE HIGHWAY RIGHT-OF-WAY, CONTACT INDOT, HENRY ALDRIDGE,

LB0247'100 N. SENATE AVENUE, INDIANAPOLIS, IN 46204-2249, PHONE 317-232-3166.

LB0247

LB0247

STATION RECOVERY (2006)

LB0247

LB0247'RECOVERY NOTE BY DAVID EVANS + ASSOC 2006 (CF)

LB0247'RECOVERED AS DESCRIBED

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB0274 *****

LB0274 FBN - This is a Federal Base Network Control Station.

LB0274 DESIGNATION - Y 175 RESET

LB0274 PID - LB0274

4/28/2011

DATASHEETS

LB0274 STATE/COUNTY- IN/MIAMI
LB0274 USGS QUAD - ONWARD (1994)

LB0274

LB0274 *CURRENT SURVEY CONTROL

LB0274

LB0274* NAD 83(2007)- 40 40 03.75326(N) 086 07 43.33225(W) ADJUSTED
LB0274* NAVD 88 - 241.34 (meters) 791.8 (feet) RESET

LB0274

LB0274 EPOCH DATE - 2002.00
LB0274 X - 327,104.130 (meters) COMP
LB0274 Y - -4,833,821.590 (meters) COMP
LB0274 Z - 4,134,638.466 (meters) COMP
LB0274 LAPLACE CORR- -0.38 (seconds) DEFLECO9
LB0274 ELLIP HEIGHT- 207.067 (meters) (02/10/07) ADJUSTED
LB0274 GEOID HEIGHT- -34.28 (meters) GEOID09

LB0274

LB0274 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

LB0274 Type PID Designation North East Ellip

LB0274 -----

LB0274 NETWORK LB0274 Y 175 RESET 0.47 0.35 1.02

LB0274 -----

LB0274 VERT ORDER - THIRD

LB0274

LB0274.The horizontal coordinates were established by GPS observations
LB0274.and adjusted by the National Geodetic Survey in February 2007.

LB0274

LB0274.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
LB0274.See National Readjustment for more information.

LB0274.The horizontal coordinates are valid at the epoch date displayed above.
LB0274.The epoch date for horizontal control is a decimal equivalence

LB0274.of Year/Month/Day.

LB0274

LB0274.The orthometric height was computed from unverified reset data.
LB0274

LB0274.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LB0274

LB0274.The Laplace correction was computed from DEFLECO9 derived deflections.
LB0274

LB0274.The ellipsoidal height was determined by GPS observations
LB0274.and is referenced to NAD 83.

LB0274

LB0274.The geoid height was determined by GEOID09.

LB0274

LB0274;
North East Units Scale Factor Converg.
LB0274;SPC IN E - 601,760.957 60,933.118 MT 0.99998545 -0 18 04.0
LB0274;SPC IN E - 1,974,277.41 199,911.40 sFT 0.99998545 -0 18 04.0
LB0274;UTM 16 - 4,502,235.624 573,644.586 MT 0.99966676 +0 34 04.2

LB0274

LB0274!
- Elev Factor x Scale Factor = Combined Factor
LB0274!SPC IN E - 0.99996752 x 0.99998545 = 0.99995297
LB0274!UTM 16 - 0.99996752 x 0.99966676 = 0.99963429

LB0274

LB0274 SUPERSEDED SURVEY CONTROL

LB0274

LB0274 NAD 83(1997)- 40 40 03.75312(N) 086 07 43.33179(W) AD() B
LB0274 ELLIP H (04/10/98) 207.110 (m) GP() 4 1
LB0274 NAVD 88 (01/19/05) 241.34 (m) 791.8 (f) LEVELING 3

LB0274

LB0274.Superseded values are not recommended for survey control.

LB0274.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LB0274.See file dsdata.txt to determine how the superseded data were derived.

LB0274

LB0274_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL7364402235(NAD 83)

LB0274_MARKER: DB = BENCH MARK DISK

LB0274_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB0274_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LB0274_STAMPING: Y 175 RESET 1968

LB0274_MARK LOGO: CGS

LB0274_MAGNETIC: N = NO MAGNETIC MATERIAL

LB0274_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB0274+STABILITY: SURFACE MOTION

LB0274_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LB0274+SATELLITE: SATELLITE OBSERVATIONS - July 20, 2006

LB0274

LB0274	HISTORY	- Date	Condition	Report By
LB0274	HISTORY	- 1968	MONUMENTED	CGS
LB0274	HISTORY	- 19970808	GOOD	SEC
LB0274	HISTORY	- 20030616	GOOD	INDOT
LB0274	HISTORY	- 20060720	GOOD	BUTLER

LB0274

LB0274 STATION DESCRIPTION

LB0274

LB0274'DESCRIBED BY COAST AND GEODETIC SURVEY 1968
 LB0274'2.8 MI S FROM NEAD.
 LB0274'2.8 MILES SOUTH ALONG U.S. HIGHWAY 31 FROM THE SCHOOL AND CROSSROAD
 LB0274'AT NEAD AT THE ENTRANCE TO THE GRISSOM AIR FORCE BASE, 124
 LB0274'FEET WEST OF THE CENTERLINE OF HIGHWAY 31, 102 FEET NORTH OF THE
 LB0274'NORTH ENTRANCE TO THE BASE, 1 FOOT SOUTH OF A METAL WITNESS POST
 LB0274'AND AT INDIANA STATE HIGHWAY COMMISSION STATION 381 + 10. THE
 LB0274'DISK IS SET IN THE TOP OF A ROUND CONCRETE POST WHICH IS FLUSH
 LB0274'WITH THE GROUND.

LB0274

LB0274 STATION RECOVERY (1997)

LB0274

LB0274'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)
 LB0274'THE STATION IS LOCATED 10.8 MILES (17.4 KM) NORTH OF THE NORTH CITY
 LB0274'LIMIT SIGN OF KOKOMO. TO REACH THE STATION FROM THE SOUTH, GO NORTH
 LB0274'ON U.S. HIGHWAY 31 FOR 0.5 MILES (0.8 KM) FROM I-218 (EAST OF HIGHWAY
 LB0274'31). FROM THE NORTH, GO SOUTH ON HIGHWAY 31 0.7 MILES (1.1 KM) FROM
 LB0274'I-218 (WEST OF U.S. 31) TO THE ENTRANCE OF GRISSOM AIR MUSEUM, NORTH
 LB0274'OF ENTRANCE. LOCATED AT AZIMUTH 152 DEGREES AND 20.85 METERS (68.41
 LB0274'FT) TO A TRAFFIC SIGNAL GUY POLE, AZIMUTH 212 DEGREES AND 20.67 METERS
 LB0274'(67.81 FT) TO THE NORTHEAST CORNER OF A CONCRETE LIGHT BASE, AZIMUTH
 LB0274'292 DEGREES AND 6.48 METERS (21.26 FT) TO A TREE, AZIMUTH 73 DEGREES
 LB0274'AND 4.64 METERS (15.22 FT) TO AN ELECTRIC RISOR POLE.

LB0274

LB0274 STATION RECOVERY (2003)

LB0274

LB0274'RECOVERY NOTE BY INDIANA DEPARTMENT OF TRANSPORTATION 2003 (KRB)
 LB0274'THE STATION IS LOCATED ABOUT 2.8 MI SOUTH OF NEAD, AT THE NORTHWEST
 LB0274'CORNER OF THE ENTRANCE TO THE GRISSOM AIR BASE MUSEUM.

LB0274'

LB0274'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 31 AND STATE
 LB0274'ROAD 18, ABOUT 7 MI NORTH OF KOKOMO, GO NORTH FOR 5.65 MI ON HIGHWAY

4/28/2011

DATASHEETS

LB0274'31 TO THE STATION ON LEFT.

LB0274'

LB0274'LOCATED 124 FT WEST OF THE CENTERLINE OF HIGHWAY 31, 21.0 FT

LB0274'EAST-SOUTHEAST OF A TREE AND 1.8 FT SOUTH OF A METAL WITNESS POST.

LB0274

LB0274

STATION RECOVERY (2006)

LB0274

LB0274'RECOVERY NOTE BY BUTLER FAIRMAN AND SEUFERT INC 2006 (JRC)

LB0274'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB0482 *****

LB0482 DESIGNATION - J 211

LB0482 PID - LB0482

LB0482 STATE/COUNTY- IN/HAMILTON

LB0482 USGS QUAD - SHERIDAN (1992)

LB0482

LB0482 *CURRENT SURVEY CONTROL

LB0482

LB0482* NAD 83(1997)- 40 10 38.53530(N) 086 13 23.88370(W) NO CHECK

LB0482* NAVD 88 - 285.773 (meters) 937.57 (feet) ADJUSTED

LB0482

LB0482 X - 321,450.668 (meters) COMP

LB0482 Y - -4,869,618.837 (meters) COMP

LB0482 Z - 4,093,215.202 (meters) COMP

LB0482 LAPLACE CORR- -2.17 (seconds) DEFLEC09

LB0482 ELLIP HEIGHT- 251.562 (meters) (05/25/99) NO CHECK

LB0482 GEOID HEIGHT- -34.19 (meters) GEOID09

LB0482 DYNAMIC HT - 285.615 (meters) 937.06 (feet) COMP

LB0482 MODELED GRAV- 980,065.4 (mgal) NAVD 88

LB0482

LB0482 HORZ ORDER - THIRD

LB0482 VERT ORDER - SECOND CLASS II

LB0482 ELLP ORDER - FOURTH CLASS I

LB0482

LB0482.This mark is at Sheridan Airport (5I4)

LB0482

LB0482.The horizontal coordinates were established by GPS observations

LB0482.and adjusted by the National Geodetic Survey in May 1999.

LB0482.No horizontal observational check was made to the station.

LB0482

LB0482.The orthometric height was determined by differential leveling and

LB0482.adjusted in June 1991.

LB0482

LB0482.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LB0482

LB0482.The Laplace correction was computed from DEFLEC09 derived deflections.

LB0482

LB0482.The ellipsoidal height was determined by GPS observations

LB0482.and is referenced to NAD 83.

LB0482

LB0482.The geoid height was determined by GEOID09.

LB0482

LB0482.The dynamic height is computed by dividing the NAVD 88

LB0482.geopotential number by the normal gravity value computed on the

LB0482.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LB0482.degrees latitude (g = 980.6199 gals.).

LB0482

LB0482.The modeled gravity was interpolated from observed gravity values.

LB0482

LB0482;	North	East	Units	Scale	Factor	Converg.
LB0482;SPC IN E	- 547,360.172	52,591.513	MT	0.99999432	-0 21	32.8
LB0482;SPC IN E	- 1,795,797.50	172,543.99	sFT	0.99999432	-0 21	32.8
LB0482;UTM 16	- 4,447,733.132	566,127.276	MT	0.99965383	+0 30	04.0

LB0482

LB0482! - Elev Factor x Scale Factor = Combined Factor

LB0482!SPC IN E - 0.99996054 x 0.99999432 = 0.99995486

LB0482!UTM 16 - 0.99996054 x 0.99965383 = 0.99961438

LB0482

LB0482	PID	Reference Object	Distance	Geod. Az
LB0482				ddmmss.s
LB0482	LB2704	SHEPORT	389.760 METERS	11250

LB0482

SUPERSEDED SURVEY CONTROL

LB0482

LB0482 NAD 83(1986)- 40 10 38.53902(N) 086 13 23.89795(W) AD() 3

LB0482 NAD 27 - 40 10 38.39832(N) 086 13 23.92785(W) AD() 3

LB0482 NGVD 29 (??/??/92) 285.880 (m) 937.92 (f) ADJ UNCH 2 0

LB0482

LB0482.Superseded values are not recommended for survey control.

LB0482.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LB0482.See file dsdata.txt to determine how the superseded data were derived.

LB0482

LB0482 U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEK6612747733(NAD 83)

LB0482_MARKER: DB = BENCH MARK DISK

LB0482_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB0482_SP_SET: CONCRETE POST

LB0482_STAMPING: J 211 1946

LB0482_MARK LOGO: CGS

LB0482_MAGNETIC: N = NO MAGNETIC MATERIAL

LB0482_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB0482+STABILITY: SURFACE MOTION

LB0482_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LB0482+SATELLITE: SATELLITE OBSERVATIONS - December 02, 2003

LB0482

LB0482 HISTORY - Date Condition Report By

LB0482 HISTORY - 1946 MONUMENTED CGS

LB0482 HISTORY - 1961 GOOD NGS

LB0482 HISTORY - 19880701 GOOD NGS

LB0482 HISTORY - 19980318 GOOD SEC

LB0482 HISTORY - 20031202 GOOD WOOLPT

LB0482

STATION DESCRIPTION

LB0482

LB0482'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LB0482'3 MI N FROM SHERIDAN.

LB0482'ABOUT 1 BLOCK WEST FROM THE POST OFFICE AT SHERIDAN, THENCE

LB0482'ABOUT 2.95 MILES NORTH ALONG A PAVED COUNTY ROAD, AT THE ENTRANCE

LB0482'TO THE SHERIDAN AIRPORT, 23 FEET NORTH OF THE CENTER LINE OF THE

LB0482'ENTRANCE DRIVE, 22 FEET EAST OF THE CENTER LINE OF THE PAVED

LB0482'ROAD, 8 FEET NORTH OF A GATE POST, 1.5 FEET EAST OF THE CENTER

LB0482'LINE OF THE FENCE LINE, ABOUT 1 FOOT ABOVE THE PAVED ROAD, AND

LB0482'SET IN THE TOP OF A CONCRETE POST PROJECTING 6 INCHES.

LB0482

LB0482

STATION RECOVERY (1961)

LB0482

LB0482'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1961

LB0482'RECOVERED IN GOOD CONDITION.

LB0482

LB0482

STATION RECOVERY (1988)

LB0482

LB0482'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1988

LB0482'THE STATION IS LOCATED ABOUT 27.4 KM (17.05 MI) SOUTHEAST OF

LB0482'FRANKFORT, 24.1 KM (15.00 MI) NORTHWEST OF CARMEL, 4.8 KM (3.00 MI)

LB0482'NORTH OF SHERIDAN AND NEAR THE ENTRANCE TO SHERIDAN AIRPORT.

LB0482'OWNERSHIP--INDIANA DEPARTMENT OF HIGHWAYS, 100 NORTH SENATE AVENUE,

LB0482'ROOM 1101, STATE OFFICE BUILDING, INDIANAPOLIS, IN 46204, PHONE

LB0482'317-232-5533.

LB0482'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 47 AND 38

LB0482'WHICH IS SOUTHWEST OF SHERIDAN, GO NORTHWEST ON STATE HIGHWAY 38 FOR

LB0482'1.1 KM (0.70 MI) TO A SIDE ROAD RIGHT. TURN RIGHT ONTO SOUTH

LB0482'CALIFORNIA STREET AND GO NORTH FOR 5.6 KM (3.50 MI) TO AIRPORT

LB0482'ENTRANCE AND THE STATION.

LB0482'THE STATION MARK IS A STANDARD CGS BENCH MARK DISK STAMPED----J 211

LB0482'1946---, SET IN THE TOP OF A SQUARE CONCRETE POST THAT PROJECTS 4

LB0482'INCHES ABOVE THE GROUND. LOCATED 6.6 M (21.7 FT) NORTH FROM CENTER

LB0482'OF ENTRANCE DRIVE, 6.7 M (22.0 FT) EAST FROM CENTER OF PAVED ROAD,

LB0482'2.4 M (7.9 FT) NORTH FROM A GATE POST AND 2.1 M (6.9 FT) NORTHWEST

LB0482'FROM WEST LEG OF AIRPORT SIGN.

LB0482'GPS SURVEY, FAA AIRPORTS, INDIANA.

LB0482'DESCRIBED BY D.L. ADAMS.

LB0482

LB0482

STATION RECOVERY (1998)

LB0482

LB0482'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1998 (RGR)

LB0482'RECOVERED AS DESCRIBED.

LB0482

LB0482

STATION RECOVERY (2003)

LB0482

LB0482'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2003 (RMC)

LB0482'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB0534 *****

LB0534 CBN - This is a Cooperative Base Network Control Station.

LB0534 DESIGNATION - HILLISBURG

LB0534 PID - LB0534

LB0534 STATE/COUNTY- IN/CLINTON

LB0534 USGS QUAD - HILLISBURG (1977)

LB0534

LB0534

*CURRENT SURVEY CONTROL

LB0534

LB0534* NAD 83(2007)- 40 17 18.65553(N) 086 20 25.94267(W) ADJUSTED

LB0534* NAVD 88 - 280.340 (meters) 919.75 (feet) ADJUSTED

LB0534

LB0534 EPOCH DATE - 2002.00

LB0534 X - 310,976.732 (meters) COMP

LB0534 Y - -4,862,306.966 (meters) COMP

LB0534 Z - 4,102,633.806 (meters) COMP

LB0534 LAPLACE CORR- -2.59 (seconds) DEFLEC09

LB0534 ELLIP HEIGHT- 246.169 (meters) (02/10/07) ADJUSTED

4/28/2011

DATASHEETS

LB0534 GEOID HEIGHT- -34.17 (meters) GEOID09
LB0534 DYNAMIC HT - 280.189 (meters) 919.25 (feet) COMP

LB0534 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

LB0534 Type PID Designation North East Ellip

LB0534 -----

LB0534 NETWORK LB0534 HILLISBURG 0.74 0.49 1.76

LB0534 -----

LB0534 MODELED GRAV- 980,079.4 (mgal) NAVD 88

LB0534

LB0534 VERT ORDER - SECOND CLASS 0

LB0534

LB0534.The horizontal coordinates were established by GPS observations

LB0534.and adjusted by the National Geodetic Survey in February 2007.

LB0534

LB0534.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

LB0534.See National Readjustment for more information.

LB0534.The horizontal coordinates are valid at the epoch date displayed above.

LB0534.The epoch date for horizontal control is a decimal equivalence

LB0534.of Year/Month/Day.

LB0534

LB0534.The orthometric height was determined by differential leveling and

LB0534.adjusted in June 1991.

LB0534

LB0534.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LB0534

LB0534.The Laplace correction was computed from DEFLEC09 derived deflections.

LB0534

LB0534.The ellipsoidal height was determined by GPS observations

LB0534.and is referenced to NAD 83.

LB0534

LB0534.The geoid height was determined by GEOID09.

LB0534

LB0534.The dynamic height is computed by dividing the NAVD 88

LB0534.geopotential number by the normal gravity value computed on the

LB0534.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LB0534.degrees latitude (g = 980.6199 gals.).

LB0534

LB0534.The modeled gravity was interpolated from observed gravity values.

LB0534

LB0534; North East Units Scale Factor Converg.

LB0534;SPC IN W - 559,817.323 963,160.444 MT 1.00001575 +0 28 49.2

LB0534;SPC IN W - 1,836,667.33 3,159,968.89 sFT 1.00001575 +0 28 49.2

LB0534;SPC IN E - 559,770.471 42,699.998 MT 1.00000707 -0 26 08.7

LB0534;SPC IN E - 1,836,513.62 140,091.58 sFT 1.00000707 -0 26 08.7

LB0534;UTM 16 - 4,459,989.008 556,053.916 MT 0.99963868 +0 25 35.2

LB0534

LB0534! - Elev Factor x Scale Factor = Combined Factor

LB0534!SPC IN W - 0.99996138 x 1.00001575 = 0.99997713

LB0534!SPC IN E - 0.99996138 x 1.00000707 = 0.99996845

LB0534!UTM 16 - 0.99996138 x 0.99963868 = 0.99960008

LB0534

LB0534: Primary Azimuth Mark Grid Az

LB0534:SPC IN W - HILLISBURG AZ MK RESET 056 51 44.8

LB0534:SPC IN E - HILLISBURG AZ MK RESET 057 46 42.7

LB0534:UTM 16 - HILLISBURG AZ MK RESET 056 54 58.8

LB0534

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LB0534 |-----|
LB0534 | PID      Reference Object          Distance      Geod. Az      |
LB0534 |          |                                     |             dddmmss.s |
LB0534 | LB2533 SCIRCLEVILLE MAST UNIDENT  APPROX. 4.8 KM 0350400.0 |
LB0534 | LB0535 HILLISBURG AZ MK              |             0572031.3 |
LB0534 | CC9356 HILLISBURG AZ MK RESET        |             0572034.0 |
LB0534 | LB2532 SCIRCLEVILLE GRAIN ELEVATOR  APPROX. 3.3 KM 0925048.1 |
LB0534 | LB0532 HILLISBURG RM 1                |             52.079 METERS 14005 |
LB0534 | LB2524 KIRKLIN MUNICIPAL TANK        |             APPROX.10.7 KM 1884528.7 |
LB0534 | LB2549 FRANKFORT CLINTON CTHSE DOME  |             APPROX.14.5 KM 2664938.4 |
LB0534 | LB0533 HILLISBURG RM 2                |             29.945 METERS 26908 |
LB0534 | LB2553 FRANKFORT BEL TEL MW KSN 77   |             APPROX.13.7 KM 2774453.8 |
LB0534 |-----|

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LB0534

LB0534

SUPERSEDED SURVEY CONTROL

LB0534

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LB0534 NAD 83(1997)- 40 17 18.65549(N) 086 20 25.94234(W) AD( ) B
LB0534 ELLIP H (04/10/98) 246.195 (m) GP( ) 4 1
LB0534 NAD 83(1986)- 40 17 18.66163(N) 086 20 25.95622(W) AD( ) 1
LB0534 NAD 27 - 40 17 18.53100(N) 086 20 25.96000(W) AD( ) 1
LB0534 NAVD 88 (04/10/98) 280.34 (m) 919.7 (f) LEVELING 3
LB0534 NGVD 29 (??/??/92) 280.448 (m) 920.10 (f) ADJ UNCH 2 0

```

LB0534

LB0534.Superseded values are not recommended for survey control.

LB0534.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LB0534.See file dsdata.txt to determine how the superseded data were derived.

LB0534

LB0534_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEK5605359989(NAD 83)

LB0534_MARKER: DS = TRIANGULATION STATION DISK

LB0534_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB0534_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LB0534_STAMPING: HILLISBURG 1934

LB0534_MARK LOGO: CGS

LB0534_MAGNETIC: N = NO MAGNETIC MATERIAL

LB0534_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB0534+STABILITY: SURFACE MOTION

LB0534_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LB0534+SATELLITE: SATELLITE OBSERVATIONS - August 12, 1997

LB0534

LB0534 HISTORY - Date Condition Report By

LB0534 HISTORY - 1934 MONUMENTED CGS

LB0534 HISTORY - 1948 GOOD CGS

LB0534 HISTORY - 1954 GOOD CGS

LB0534 HISTORY - 1970 GOOD NGS

LB0534 HISTORY - 1970 GOOD NGS

LB0534 HISTORY - 19970812 GOOD SEC

LB0534

LB0534

STATION DESCRIPTION

LB0534

LB0534'DESCRIBED BY COAST AND GEODETIC SURVEY 1934 (GLA)

LB0534'ABOUT 10 MILES EAST OF FRANKFORT, IN NORTHERN PART OF THE VILLAGE OF

LB0534'HILLISBURG, ON NORTH SIDE OF THE GRAVEL ROAD THAT BORDERS THE

LB0534'VILLAGE ON THE NORTH (SECOND ROAD NORTH OF THE RAILROAD), ON THE

LB0534'SOUTH SIDE OF THE PASTURE FENCE LINE, ON PROPERTY BELONGING TO

LB0534'MRS. J. M. HILLIS, 25 FEET NORTH OF CENTER LINE OF ROAD, 50 FEET

LB0534'NORTH OF J. A. KUHNS YARD FENCE, WHICH IS ON SOUTH SIDE OF ROAD,

LB0534'75 FEET NORTHWEST OF 24-INCH BOX ELDER, WHICH IS IN

LB0534 'NORTHEAST CORNER OF KUHNS YARD, AND PROJECTS 4 INCHES.

LB0534'

LB0534 'TO REACH STATION FROM HILLISBURG RAILROAD STATION, GO WEST ONE
LB0534 'BLOCK, THEN NORTH ACROSS RAILROAD AND CONTINUE NORTH TWO BLOCKS TO
LB0534 'WHERE THE ROAD TURNS EAST. TURN EAST AND GO 100 FEET TO THE
LB0534 'STATION ON THE FENCE LINE ON THE NORTH SIDE OF THE ROAD.

LB0534'

LB0534 'SURFACE, UNDERGROUND, REFERENCE AND AZIMUTH MARKS ARE STANDARD BRONZE
LB0534 'DISKS SET IN CONCRETE.

LB0534'

LB0534 'REFERENCE MARK NO. 1 IS 170.88 FEET SOUTHEAST OF STATION, ON THE
LB0534 'EAST EDGE OF J. A. KUHNS GARDEN, 3 FEET NORTH OF THE SOUTHEAST
LB0534 'CORNER GARDEN POST, 115 FEET SOUTH OF CENTER LINE OF THE ROAD, AND
LB0534 'PROJECTS 5 INCHES. REFERENCE MARK NO. 2 IS 98.30 FEET WEST OF THE
LB0534 'STATION, 18 INCHES SOUTH OF PASTURE FENCE, 24 FEET NORTH OF
LB0534 'CENTER LINE OF ROAD, ON LINE WITH THE EAST SIDE OF THE
LB0534 'NORTH-SOUTH ROAD, 50 FEET EAST OF THE OLD GATE THAT CONNECTS A
LB0534 'T-FENCE SOUTH, AND PROJECTS 6 INCHES.

LB0534'

LB0534 'AZIMUTH MARK IS ABOUT 0.25 MILE EAST-NORTHEAST OF THE STATION, 17
LB0534 'FEET EAST OF CENTER LINE OF NORTH-SOUTH ROAD, 55 FEET NORTH OF
LB0534 'TRANSMISSION LINE POLE, 10 INCHES WEST OF FENCE AND PROJECTS 6
LB0534 'INCHES.

LB0534'

LB0534 'HEIGHT OF LIGHT ABOVE STATION MARK 113 FEET.

LB0534

LB0534

STATION RECOVERY (1948)

LB0534

LB0534 'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1948 (JMN)

LB0534 'RECOVERED AS DESCRIBED.

LB0534

LB0534

STATION RECOVERY (1954)

LB0534

LB0534 'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1954 (ELJ)

LB0534 'STATION MARK AND THE REFERENCE MARKS WERE RECOVERED AS DESCRIBED IN
LB0534 'THE 1934 DESCRIPTION AND WERE FOUND IN GOOD CONDITION. THE AZIMUTH
LB0534 'MARK WAS FOUND DESTROYED. A NEW AZIMUTH MARK WAS ESTABLISHED. THE
LB0534 'DISTANCES TO THE REFERENCE MARKS CHECKED. THE DIRECTION TO
LB0534 'REFERENCE MARK NO. 1 CHECKED BUT DID NOT CHECK TO REFERENCE MARK NO.
LB0534 '2. THE OLD DESCRIPTION IS ADEQUATE. A DESCRIPTION TO THE NEW
LB0534 'AZIMUTH MARK FOLLOWS.

LB0534'

LB0534 'AZIMUTH MARK IS 25 FEET EAST OF THE CENTER OF A PAVED ROAD, 1 FOOT
LB0534 'WEST OF A FENCE LINE AND 1 FOOT NORTH OF A WHITE WITNESS POST. THE
LB0534 'MARK PROJECTS 4 INCHES AND THE DISK IS STAMPED HILLISBURG 1934
LB0534 'RESET 1954.

LB0534'

LB0534 'TO REACH THE AZIMUTH MARK FROM THE STATION, GO EAST ON GRAVEL ROAD
LB0534 'FOR 0.15 MILE TO A PAVED T INTERSECTION, TURN LEFT AND GO NORTH ON
LB0534 'PAVED ROAD FOR 0.2 MILE TO THE AZIMUTH MARK ON THE RIGHT AS
LB0534 'DESCRIBED.

LB0534'

LB0534 'HEIGHT OF LIGHT ABOVE STATION MARK 34 METERS.

LB0534

LB0534

STATION RECOVERY (1970)

LB0534

LB0534 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1970 (JLC)

LB0534'R. M. 1 TO R. M. 2 OBSTRUCTED BY BUILDING.

LB0534'

LB0534'THE STATION MARK, REFERENCE MARKS 1 AND 2 AND THE AZIMUTH MARK WERE
LB0534'RECOVERED IN GOOD CONDITION. THE DISTANCE AND THE DIRECTION TO
LB0534'REFERENCE MARK 1 CHECKED. THE DIRECTION TO REFERENCE MARK 2
LB0534'CHECKED BUT A DIFFERENCE OF .06 OF A FOOT SHORTER WAS FOUND IN THE
LB0534'DISTANCE. A DIFFERENCE OF 8.1 SECONDS LOWER IN THE DIRECTION TO THE
LB0534'AZIMUTH MARK WAS FOUND. FOLLOWING IS A NEW DESCRIPTION.

LB0534'

LB0534'THE STATION IS LOCATED IN THE NORTH EDGE OF THE VILLAGE OF HILLISBURG
LB0534'AND ON ROAD-RIGHT-OF-WAY.

LB0534'

LB0534'TO REACH THE STATION FROM JOHNSON TOWNSHIP VOLUNTEER FIRE DEPARTMENT
LB0534'BUILDING IN HILLISBURG, GO EAST ON A PAVED ROAD FOR 0.05 MILE TO
LB0534'A CROSSROAD. TURN LEFT AND GO NORTH ACROSS RAILROAD TRACKS ON A
LB0534'PAVED ROAD FOR 0.1 MILE TO A SIDE ROAD LEFT.*** TURN LEFT AND GO
LB0534'WEST ON A PAVED ROAD FOR 0.2 MILE TO THE STATION ON THE RIGHT.

LB0534'

LB0534'THE STATION MARK IS A STANDARD DISK STAMPED HILLISBURG 1934, SET
LB0534'IN THE TOP OF A 12-INCH CYLINDRICAL CONCRETE MONUMENT WHICH PROJECTS
LB0534'1 INCH ABOVE THE GROUND. IT IS 59.6 FEET NORTH OF THE NORTHEAST
LB0534'CORNER OF A GARAGE. 27.6 FEET NORTH OF THE CENTER OF AN EAST-WEST
LB0534'PAVED ROAD, 7 FEET EAST-SOUTHEAST OF A METAL WITNESS POST AND 2
LB0534'FEET SOUTH OF A WIRE FENCE.

LB0534'

LB0534'REFERENCE MARK 1 IS A STANDARD DISK STAMPED HILLISBURG NO 1 1934,
LB0534'SET IN THE TOP OF A 12-INCH CYLINDRICAL CONCRETE MONUMENT WHICH
LB0534'PROJECTS 1 INCH ABOVE THE GROUND. IT IS 102 FEET SOUTH OF THE
LB0534'CENTER OF THE EAST-WEST PAVED ROAD, 89.4 FEET NORTH OF POWER LINE
LB0534'POLE NUMBER 7, 35.2 FEET EAST-NORTHEAST OF THE SOUTHEAST CORNER OF A
LB0534'SMALL GARAGE, 33.3 FEET EAST-SOUTHEAST OF THE NORTHEAST
LB0534'CORNER OF THE SMALL GARAGE AND AT THE WEST EDGE OF AN ALLEY WAY.

LB0534'

LB0534'REFERENCE MARK 2 IS A STANDARD DISK STAMPED HILLISBURG NO 2 1934,
LB0534'SET IN THE TOP OF A 12-INCH CYLINDRICAL CONCRETE MONUMENT WHICH
LB0534'PROJECTS 4 INCHES ABOVE THE GROUND. IT IS 28 FEET NORTH OF THE
LB0534'PROJECTED CENTER OF THE EAST-WEST PAVED ROAD, 21 FEET EAST OF THE
LB0534'PROJECTED CENTER OF A NORTH-SOUTH PAVED ROAD AND 3.2 FEET SOUTH
LB0534'OF THE WIRE FENCE.

LB0534'

LB0534'THE AZIMUTH MARK IS A STANDARD DISK STAMPED HILLISBURG 1934 RESET
LB0534'1954, SET IN THE TOP OF A 12-INCH SQUARE CONCRETE MONUMENT WHICH
LB0534'PROJECTS 2 INCHES ABOVE THE GROUND. IT IS 80.8 FEET NORTH OF POWER
LB0534'LINE POLE NUMBER 14910, 55 FEET SOUTH OF POWER LINE POLE NUMBER
LB0534'14911, 22.4 FEET EAST OF THE CENTER OF THE PAVED ROAD, 2.1 FEET NORTH
LB0534'OF A METAL WITNESS POST, 2 FEET NORTH OF A WOODEN WITNESS POST AND
LB0534'1 FOOT WEST OF A WIRE FENCE.

LB0534'

LB0534'TO REACH THE AZIMUTH MARK FROM THIS POINT, GO NORTH ON A PAVED
LB0534'ROAD FOR 0.1 MILE TO THE MARK ON THE RIGHT.

LB0534'

LB0534'HEIGHT OF LIGHT ABOVE STATION MARK 112.0 FEET.

LB0534

LB0534

STATION RECOVERY (1970)

LB0534

LB0534'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1970

LB0534'IN HILLISBURG.

LB0534'TO REACH THE STATION FROM THE JOHNSON TOWNSHIP VOLUNTEER FIRE
 LB0534'DEPARTMENT BUILDING IN HILLISBURG, GO EAST ON A PAVED ROAD FOR
 LB0534'0.05 MILE TO A CROSSROAD. TURN LEFT AND GO NORTH ACROSS RAILROAD
 LB0534'TRACKS ON A PAVED ROAD FOR 0.1 MILE TO A SIDE ROAD LEFT. TURN
 LB0534'LEFT AND GO WEST ON A PAVED ROAD FOR 0.2 MILE TO THE STATION ON
 LB0534'THE RIGHT. IT IS 59.6 FEET NORTH OF THE NORTHEAST CORNER OF
 LB0534'A GARAGE, 27.6 FEET NORTH OF THE CENTER OF A PAVED ROAD, 7
 LB0534'FEET EAST-SOUTHEAST OF A METAL WITNESS POST AND 2 FEET SOUTH OF
 LB0534'A WIRE FENCE. THE MARK IS SET IN THE TOP OF A 12-INCH CYLINDRICAL
 LB0534'CONCRETE MONUMENT WHICH PROJECTS 1 INCH ABOVE THE GROUND.

LB0534
 LB0534
 LB0534

STATION RECOVERY (1997)

LB0534'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)
 LB0534'THE STATION IS 8.50 MILES (13.68 KM) NORTHEAST OF FRANKLIN, 3.50 MILES
 LB0534'(5.63 KM) SOUTHEAST OF MICHIGANTOWN, 2.50 MILES (4.02 KM) WEST OF
 LB0534'SCIRCLEVILLE. FROM THE JUNCTION OF U.S. HIGHWAY 31 AND STATE ROAD 28,
 LB0534'GO WEST ON STATE ROAD 28 FOR 10.85 MILES (17.46 KM) TO COUNTY ROAD 900
 LB0534'EAST. TURN RIGHT AND GO NORTH FOR 0.95 MILES (1.53 KM) TO A RAILROAD
 LB0534'CROSSING IN THE SETTLEMENT OF HILLISBURG. CONTINUE NORTH FOR 0.10
 LB0534'MILES (0.16 KM) TO NORTH STREET. TURN LEFT AND GO WEST FOR 0.05 MILES
 LB0534'(0.08 KM) TO THE STATION ON RIGHT (NORTH SIDE OF ROAD), IN THE
 LB0534'RIGHT-OF-WAY OF NORTH STREET. THE STATION IS SET IN THE TOP OF A 12
 LB0534'INCH ROUND CONCRETE POST FLUSH WITH GROUND. LOCATED AZIMUTH 238
 LB0534'DEGREES 33.090 METERS (108.563 FT) TO A FENCE CORNER, AZIMUTH 175
 LB0534'DEGREES 18.116 METERS (59.436 FT) TO NORTHEAST CORNER OF A GARAGE,
 LB0534'AZIMUTH 180 DEGREES 8.410 METERS (27.592 FT) TO CENTERLINE OF ROAD,
 LB0534'AZIMUTH 290 DEGREES 2.050 METERS (6.726 FT) TO A METAL WITNESS POST,
 LB0534'AZIMUTH 0 DEGREES 0.750 METERS (2.461 FT) TO A WOVEN WIRE FENCE.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB0685 *****

LB0685 DESIGNATION - A 119
 LB0685 PID - LB0685
 LB0685 STATE/COUNTY- IN/CLINTON
 LB0685 USGS QUAD - ROSSVILLE (1961)

LB0685
 LB0685
 LB0685

*CURRENT SURVEY CONTROL

LB0685*	NAD 83(1986)-	40 24 08.	(N)	086 35 27.	(W)	SCALED
LB0685*	NAVD 88	- 227.089	(meters)	745.04	(feet)	ADJUSTED
LB0685	GEOID HEIGHT-	-33.98	(meters)			GEOID09
LB0685	DYNAMIC HT -	226.973	(meters)	744.66	(feet)	COMP
LB0685	MODELED GRAV-	980,109.5	(mgal)			NAVD 88

LB0685
 LB0685
 LB0685

LB0685.The horizontal coordinates were scaled from a topographic map and have
 LB0685.an estimated accuracy of +/- 6 seconds.

LB0685

LB0685.The orthometric height was determined by differential leveling and
 LB0685.adjusted in June 1991.

LB0685

LB0685.The geoid height was determined by GEOID09.

LB0685

LB0685.The dynamic height is computed by dividing the NAVD 88
 LB0685.geopotential number by the normal gravity value computed on the

4/28/2011

DATASHEETS

LB0685.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LB0685.degrees latitude (g = 980.6199 gals.).

LB0685

LB0685.The modeled gravity was interpolated from observed gravity values.

LB0685

LB0685;		North	East	Units	Estimated Accuracy
LB0685;SPC IN W	-	572,300.	941,810.	MT	(+/- 180 meters Scaled)

LB0685

LB0685 SUPERSEDED SURVEY CONTROL

LB0685

LB0685	NGVD 29 (??/??/92)	227.195	(m)	745.39	(f) ADJ UNCH	2 0
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LB0685

LB0685.Superseded values are not recommended for survey control.

LB0685.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LB0685.See file dsdata.txt to determine how the superseded data were derived.

LB0685

LB0685_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEK347724(NAD 83)

LB0685_MARKER: DB = BENCH MARK DISK

LB0685_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB0685_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LB0685_STAMPING: A 119 1946

LB0685_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB0685+STABILITY: SURFACE MOTION

LB0685

LB0685	HISTORY	- Date	Condition	Report By
LB0685	HISTORY	- 1946	MONUMENTED	CGS

LB0685

LB0685 STATION DESCRIPTION

LB0685

LB0685'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LB0685'1 MI SE FROM ROSSVILLE.

LB0685'ABOUT 1.0 MILE SOUTHEAST ALONG STATE HIGHWAY 39 FROM THE POST
 LB0685'OFFICE AT ROSSVILLE, IN THE SOUTHEAST QUARTER OF AN EAST-WEST ROAD
 LB0685'INTERSECTION, 28.5 FEET EAST OF THE CENTER LINE OF THE HIGHWAY, 25
 LB0685'FEET SOUTH OF THE CENTER LINE OF THE CROSS ROAD, 6 FEET SOUTH OF A
 LB0685'FENCE CORNER, 6 FEET NORTH OF A TELEPHONE POLE, 1 1/2 FEET WEST
 LB0685'OF A FENCE LINE AND ABOUT 1 FOOT BELOW HIGHWAY LEVEL. A STANDARD
 LB0685'DISK, STAMPED A 119 1946 AND SET IN THE TOP OF A CONCRETE POST
 LB0685'PROJECTING 5 INCHES ABOVE GROUND.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB0781 *****

LB0781 CBN - This is a Cooperative Base Network Control Station.

LB0781 DESIGNATION - B 120

LB0781 PID - LB0781

LB0781 STATE/COUNTY- IN/TIPPECANOE

LB0781 USGS QUAD - LAFAYETTE EAST (1986)

LB0781

LB0781 *CURRENT SURVEY CONTROL

LB0781

LB0781*	NAD 83(2007)-	40 23 06.26402(N)	086 45 06.07485(W)	ADJUSTED
LB0781*	NAVD 88	- 207.733 (meters)	681.54 (feet)	ADJUSTED

LB0781

LB0781	EPOCH DATE	-	2002.00	
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LB0781	X	-	275,681.297 (meters)	COMP
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LB0781	Y	-	-4,857,429.172 (meters)	COMP
--------	---	---	-------------------------	------

LB0781	Z	-	4,110,760.111 (meters)	COMP
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LB0781	LAPLACE CORR-		-1.79 (seconds)	DEFLEC09
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4/28/2011

DATASHEETS

LB0781 ELLIP HEIGHT- 173.926 (meters) (02/10/07) ADJUSTED
 LB0781 GEOID HEIGHT- -33.82 (meters) GEOID09
 LB0781 DYNAMIC HT - 207.628 (meters) 681.19 (feet) COMP

LB0781
 LB0781 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----
 LB0781 Type PID Designation North East Ellip

LB0781 -----
 LB0781 NETWORK LB0781 B 120 0.88 0.74 1.90
 LB0781 -----

LB0781 MODELED GRAV- 980,115.5 (mgal) NAVD 88
 LB0781

LB0781 VERT ORDER - SECOND CLASS 0
 LB0781

LB0781.The horizontal coordinates were established by GPS observations
 LB0781.and adjusted by the National Geodetic Survey in February 2007.
 LB0781

LB0781.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
 LB0781.See National Readjustment for more information.

LB0781.The horizontal coordinates are valid at the epoch date displayed above.
 LB0781.The epoch date for horizontal control is a decimal equivalence
 LB0781.of Year/Month/Day.

LB0781
 LB0781.The orthometric height was determined by differential leveling and
 LB0781.adjusted in June 1991.

LB0781
 LB0781.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 LB0781

LB0781.The Laplace correction was computed from DEFLEC09 derived deflections.
 LB0781

LB0781.The ellipsoidal height was determined by GPS observations
 LB0781.and is referenced to NAD 83.

LB0781
 LB0781.The geoid height was determined by GEOID09.

LB0781
 LB0781.The dynamic height is computed by dividing the NAVD 88
 LB0781.geopotential number by the normal gravity value computed on the
 LB0781.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 LB0781.degrees latitude (g = 980.6199 gals.).

LB0781
 LB0781.The modeled gravity was interpolated from observed gravity values.
 LB0781

LB0781;
 LB0781; SPC IN W - North East Units Scale Factor Converg.
 LB0781; SPC IN W - 570,326.920 928,159.884 MT 0.99997642 +0 12 53.6
 LB0781; SPC IN W - 1,871,147.57 3,045,137.89 sFT 0.99997642 +0 12 53.6
 LB0781; UTM 16 - 4,470,527.610 521,076.353 MT 0.99960547 +0 09 39.2

LB0781
 LB0781!
 LB0781! SPC IN W - Elev Factor x Scale Factor = Combined Factor
 LB0781! SPC IN W - 0.99997272 x 0.99997642 = 0.99994914
 LB0781! UTM 16 - 0.99997272 x 0.99960547 = 0.99957820

LB0781
 LB0781

SUPERSEDED SURVEY CONTROL

LB0781 NAD 83(1997)- 40 23 06.26399(N) 086 45 06.07478(W) AD() A
 LB0781 ELLIP H (01/19/05) 173.930 (m) GP() 4 1
 LB0781 NAVD 88 (01/19/05) 207.73 (m) 681.5 (f) LEVELING 3
 LB0781 NGVD 29 (??/??/92) 207.839 (m) 681.89 (f) ADJ UNCH 2 0
 LB0781

4/28/2011

DATASHEETS

LB0781.Superseded values are not recommended for survey control.
LB0781.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LB0781.See file dsdata.txt to determine how the superseded data were derived.

LB0781

LB0781_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEK2107670527(NAD 83)

LB0781_MARKER: DB = BENCH MARK DISK

LB0781_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB0781_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LB0781_STAMPING: B 120 1946

LB0781_MARK LOGO: CGS

LB0781_PROJECTION: PROJECTING 8 CENTIMETERS

LB0781_MAGNETIC: O = OTHER; SEE DESCRIPTION

LB0781_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB0781+STABILITY: SURFACE MOTION

LB0781_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LB0781+SATELLITE: SATELLITE OBSERVATIONS - July 28, 2009

LB0781

LB0781	HISTORY	- Date	Condition	Report By
LB0781	HISTORY	- 1946	MONUMENTED	CGS
LB0781	HISTORY	- 1965	GOOD	NGS
LB0781	HISTORY	- 20020520	MARK NOT FOUND	INDIV
LB0781	HISTORY	- 20030520	GOOD	INDIV
LB0781	HISTORY	- 20030624	GOOD	PURDUE
LB0781	HISTORY	- 20090728	GOOD	LDACE

LB0781

STATION DESCRIPTION

LB0781

LB0781'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LB0781'1.6 MI NE FROM DAYTON.

LB0781'ABOUT 0.9 MILE EAST ALONG STATE HIGHWAY 38 FROM THE POST OFFICE

LB0781'AT DAYTON, THENCE 0.7 MILE NORTH ALONG THE BUCK CREEK-DAYTON

LB0781'ROAD, 0.2 MILE SOUTH OF AN EAST-WEST CROSS ROAD, 22 FEET EAST

LB0781'OF THE CENTER LINE OF THE ROAD, 20.5 FEET NORTH OF THE CENTER

LB0781'LINE OF A DRIVEWAY TO THE WALLACE PATTON FARM HOUSE, 11 FEET

LB0781'NORTH OF A FENCE CORNER, 1 1/2 FEET WEST OF A FENCE LINE

LB0781'AND ABOUT 1 FOOT HIGHER THAN ROAD LEVEL. A STANDARD DISK, STAMPED

LB0781'B 120 1946 AND SET IN THE TOP OF A CONCRETE POST PROJECTING

LB0781'5 INCHES ABOVE GROUND.

LB0781

STATION RECOVERY (1965)

LB0781

LB0781'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1965

LB0781'RECOVERED IN GOOD CONDITION.

LB0781

STATION RECOVERY (2002)

LB0781

LB0781'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2002

LB0781'MARK NOT FOUND, DUE TO THE ROAD IS NOT BEING THERE.

LB0781

STATION RECOVERY (2003)

LB0781

LB0781'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2003 (BLY)

LB0781'RECOVERED IN GOOD CONDITION.

LB0781

STATION RECOVERY (2003)

LB0781

LB0781'RECOVERY NOTE BY PURDUE UNIVERSITY 2003 (BHV)

LB0781 'THE STATION IS LOCATED IN SHEFFIELD TOWNSHIP, ABOUT 1.6 MI NORTHEAST
LB0781 'OF DAYTON. OWNERSHIP--WALLACE PATTON FARM HOUSE, JOHN B. SPITZNAGLE,
LB0781 'JOHN DEERE ROAD, 2233 CR S 800 E, LAFAYETTE, IN 47905.

LB0781 '

LB0781 'TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 65
LB0781 'AND US HIGHWAY 38 GO EAST ON HIGHWAY 38 FOR 1.75 MI PASSING THROUGH
LB0781 'DAYTON TO COUNTY ROAD 800 E ON THE LEFT. TURN LEFT AND GO NORTH ON
LB0781 'ROAD 800 E FOR 0.8 MI TO THE STATION ON THE RIGHT.

LB0781 '

LB0781 'THE STATION IS 40.6 FT WEST-NORTHWEST OF A UTILITY POLE, 24.3 FT EAST
LB0781 'OF THE CENTER OF ROAD 800 E, 22.5 FT NORTH OF THE CENTER OF JOHN
LB0781 'DEERE ROAD AND 11.3 FT NORTHWEST OF THE LAST POST OF AN EAST-WEST
LB0781 'FENCE LINE.

LB0781

LB0781

LB0781

STATION RECOVERY (2009)

LB0781 'RECOVERY NOTE BY LOUISVILLE DISTRICT USE 2009 (DLS)

LB0781 'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB0881 *****

LB0881 CBN - This is a Cooperative Base Network Control Station.

LB0881 DESIGNATION - C 113

LB0881 PID - LB0881

LB0881 STATE/COUNTY- IN/BOONE

LB0881 USGS QUAD - HAZELRIGG (1980)

LB0881

LB0881

*CURRENT SURVEY CONTROL

LB0881

LB0881* NAD 83(2007)- 40 04 39.96143(N) 086 37 11.38971(W) ADJUSTED

LB0881* NAVD 88 - 270.661 (meters) 887.99 (feet) ADJUSTED

LB0881

LB0881 EPOCH DATE - 2002.00

LB0881 X - 288,161.480 (meters) COMP

LB0881 Y - -4,878,831.566 (meters) COMP

LB0881 Z - 4,084,749.132 (meters) COMP

LB0881 LAPLACE CORR- -1.83 (seconds) DEFLECO9

LB0881 ELLIP HEIGHT- 237.044 (meters) (02/10/07) ADJUSTED

LB0881 GEOID HEIGHT- -33.61 (meters) GEOID09

LB0881 DYNAMIC HT - 270.514 (meters) 887.51 (feet) COMP

LB0881

LB0881 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

LB0881 Type PID Designation North East Ellip

LB0881 -----

LB0881 NETWORK LB0881 C 113 0.74 0.47 1.61

LB0881 -----

LB0881 MODELED GRAV- 980,075.0 (mgal) NAVD 88

LB0881

LB0881 VERT ORDER - SECOND CLASS 0

LB0881

LB0881.The horizontal coordinates were established by GPS observations

LB0881.and adjusted by the National Geodetic Survey in February 2007.

LB0881

LB0881.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

LB0881.See National Readjustment for more information.

LB0881.The horizontal coordinates are valid at the epoch date displayed above.

LB0881.The epoch date for horizontal control is a decimal equivalence

LB0881.of Year/Month/Day.

LB0881

LB0881.The orthometric height was determined by differential leveling and
LB0881.adjusted in June 1991.

LB0881

LB0881.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LB0881

LB0881.The Laplace correction was computed from DEFLEC09 derived deflections.

LB0881

LB0881.The ellipsoidal height was determined by GPS observations

LB0881.and is referenced to NAD 83.

LB0881

LB0881.The geoid height was determined by GEOID09.

LB0881

LB0881.The dynamic height is computed by dividing the NAVD 88

LB0881.geopotential number by the normal gravity value computed on the

LB0881.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LB0881.degrees latitude (g = 980.6199 gals.).

LB0881

LB0881.The modeled gravity was interpolated from observed gravity values.

LB0881

LB0881;	North	East	Units	Scale	Factor	Converg.
LB0881;SPC IN W	- 536,255.199	939,534.117	MT	0.99998590	+0 17 54.3	
LB0881;SPC IN W	- 1,759,363.93	3,082,454.85	sFT	0.99998590	+0 17 54.3	
LB0881;UTM 16	- 4,436,457.897	532,414.354	MT	0.99961293	+0 14 41.2	

LB0881

LB0881! - Elev Factor x Scale Factor = Combined Factor

LB0881!SPC IN W - 0.99996281 x 0.99998590 = 0.99994872

LB0881!UTM 16 - 0.99996281 x 0.99961293 = 0.99957576

LB0881

LB0881 SUPERSEDED SURVEY CONTROL

LB0881

LB0881	NAD 83(1997)-	40 04 39.96161(N)	086 37 11.39034(W)	AD() B
LB0881	ELLIP H (04/10/98)	237.038 (m)		GP() 4 1
LB0881	NAVD 88 (04/10/98)	270.66 (m)	888.0 (f)	LEVELING 3
LB0881	NGVD 29 (??/??/92)	270.755 (m)	888.30 (f)	ADJ UNCH 2 0

LB0881

LB0881.Superseded values are not recommended for survey control.

LB0881.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LB0881.See file dsdata.txt to determine how the superseded data were derived.

LB0881

LB0881_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEK3241436457(NAD 83)

LB0881_MARKER: DB = BENCH MARK DISK

LB0881_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB0881_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LB0881_STAMPING: C 113 1946

LB0881_MARK LOGO: CGS

LB0881_MAGNETIC: O = OTHER; SEE DESCRIPTION

LB0881_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB0881+STABILITY: SURFACE MOTION

LB0881_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LB0881+SATELLITE: SATELLITE OBSERVATIONS - July 22, 1998

LB0881

LB0881 HISTORY - Date Condition Report By

LB0881 HISTORY - 1946 MONUMENTED CGS

LB0881 HISTORY - 1977 GOOD LOCENG

LB0881 HISTORY - 19970808 GOOD SEC

LB0881 HISTORY - 19980722 GOOD WOOLPT

LB0881

LB0881

STATION DESCRIPTION

LB0881

LB0881'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LB0881'1.6 MI N FROM DOVER.

LB0881'ALONG STATE HIGHWAY 75 ABOUT 1.6 MILE NORTH OF JEFFERSON

LB0881'TOWNSHIP SCHOOL AT DOVER, AT THE JUNCTION WITH A SIDE ROAD

LB0881'LEADING WEST, 41 FEET WEST OF THE CENTER LINE OF THE HIGHWAY,

LB0881'47 FEET SOUTH OF THE CENTER LINE OF THE SIDE ROAD, 3.5 FEET SOUTH

LB0881'OF A FENCE CORNER, 1.3 FEET EAST OF A FENCE LINE, ABOUT 1 1/2

LB0881'FOOT NORTH OF A WHITE WOODEN WITNESS POST AND 1 FOOT LOWER THAN

LB0881'HIGHWAY LEVEL. A STANDARD DISK, STAMPED C 113 1946 AND SET IN

LB0881'THE TOP OF A CONCRETE POST PROJECTING 5 INCHES ABOVE GROUND.

LB0881

LB0881

STATION RECOVERY (1977)

LB0881

LB0881'RECOVERY NOTE BY LOCAL ENGINEER (INDIVIDUAL OR FIRM) 1977

LB0881'RECOVERED IN GOOD CONDITION.

LB0881

LB0881

STATION RECOVERY (1997)

LB0881

LB0881'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

LB0881'DOWN OR UP STATE ROAD 75, 1.7 MILES (2.7 KM) NORTH OF INTERSECTION

LB0881'WEST STATE ROAD 32. BENCHMARK IS 39.8 FT (12.1 M) FROM CENTERLINE OF

LB0881'STATE ROAD 75, 1.5 FEET (0.5 M) NORTH OF WITNESS POST, 21 FEET (6.4 M)

LB0881'FROM NEAREST ELECTRICAL POST, ABOUT 1 FOOT (0.3 M) LOWER THAN HIGHWAY

LB0881'LEVEL AND PROJECTING 13 CM ABOVE GROUND. OWNERSHIP--JASON SCOTT, 2620

LB0881'NORTH STATE ROAD 75, THORNTOWN IN 46071.

LB0881

LB0881

STATION RECOVERY (1998)

LB0881

LB0881'RECOVERY NOTE BY WOOLPERT CONSULTANTS 1998 (BBS)

LB0881'WOOLPERT LLP 1998 (BBS). THE STATION IS LOCATED 2.6 KM (1.60 MI)

LB0881'NORTH OF DOVER. THE PROPERTY OWNER IS JASON SCOTT, 2620 NORTH STATE

LB0881'ROUTE 75, THORNTON IN 46071. FROM THE INTERSECTION OF STATE ROUTE 75

LB0881'AND STATE ROUTE 32 IN DOVER, PROCEED NORTH ALONG STATE ROUTE 75 FOR

LB0881'2.6 KM (1.60 MI) TO THE STATION ON THE LEFT AND WEST SIDE OF STATE

LB0881'ROUTE 75, AND SOUTH OF AN UNNAMED SIDE ROAD ALSO ON THE WEST SIDE OF

LB0881'THE STATE ROUTE 75. THE STATION IS A STANDARD BENCHMARK DISK IN A

LB0881'ROUND CONCRETE MONUMENT AND IS 12.1 M (39.7 FT) WEST OF THE CENTERLINE

LB0881'OF STATE ROUTE 75, 6.4 M (21.0 FT) SOUTH OF A UTILITY POLE, AND 0.5 M

LB0881'(1.6 FT) FROM A WITNESS POST.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB0927 *****

LB0927 DESIGNATION - STOCKWELL AZ MK

LB0927 PID - LB0927

LB0927 STATE/COUNTY- IN/TIPPECANOE

LB0927 USGS QUAD - STOCKWELL (1980)

LB0927

LB0927

*CURRENT SURVEY CONTROL

LB0927

LB0927* NAD 83(1986)- 40 16 22. (N) 086 45 30. (W) SCALED

LB0927* NAVD 88 - 240.853 (meters) 790.20 (feet) ADJUSTED

LB0927

LB0927 GEOID HEIGHT- -33.63 (meters) GEOID09

LB0927 DYNAMIC HT - 240.729 (meters) 789.79 (feet) COMP

LB0927 MODELED GRAV- 980,103.6 (mgal) NAVD 88

LB0927

LB0927 VERT ORDER - SECOND CLASS 0

LB0927

LB0927.The horizontal coordinates were scaled from a topographic map and have
LB0927.an estimated accuracy of +/- 6 seconds.

LB0927

LB0927.The orthometric height was determined by differential leveling and
LB0927.adjusted in June 1991.

LB0927

LB0927.The geoid height was determined by GEOID09.

LB0927

LB0927.The dynamic height is computed by dividing the NAVD 88
LB0927.geopotential number by the normal gravity value computed on the
LB0927.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LB0927.degrees latitude (g = 980.6199 gals.).

LB0927

LB0927.The modeled gravity was interpolated from observed gravity values.

LB0927

LB0927;	North	East	Units	Estimated Accuracy
LB0927;SPC IN W -	557,860.	927,640.	MT	(+/- 180 meters Scaled)

LB0927

LB0927 SUPERSEDED SURVEY CONTROL

LB0927

LB0927 NGVD 29 (??/??/92)	240.946 (m)	790.50 (f)	ADJ UNCH	2 0
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LB0927

LB0927.Superseded values are not recommended for survey control.

LB0927.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LB0927.See file dsdata.txt to determine how the superseded data were derived.

LB0927

LB0927_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEK205580(NAD 83)

LB0927_MARKER: DR = REFERENCE MARK DISK

LB0927_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB0927_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LB0927_STAMPING: STOCKWELL AZIMUTH 1934

LB0927_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB0927+STABILITY: SURFACE MOTION

LB0927_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LB0927+SATELLITE: SATELLITE OBSERVATIONS - June 09, 2010

LB0927

LB0927 HISTORY	- Date	Condition	Report By
LB0927 HISTORY	- 1934	MONUMENTED	CGS
LB0927 HISTORY	- 1946	GOOD	NGS
LB0927 HISTORY	- 1970	GOOD	NGS
LB0927 HISTORY	- 20021230	GOOD	GRWENG
LB0927 HISTORY	- 20100609	GOOD	INDIV

LB0927

LB0927

STATION DESCRIPTION

LB0927

LB0927'DESCRIBED BY NATIONAL GEODETIC SURVEY 1946

LB0927'1.6 MI SE FROM STOCKWELL.

LB0927'ABOUT 0.9 MILE SOUTH ALONG A BLACK TOP ROAD FROM THE CLEVELAND

LB0927'CINCINNATI, CHICAGO AND ST. LOUIS RAILWAY STATION AT STOCKWELL,

LB0927'THENCE ABOUT 0.65 MILE EAST ALONG A GRAVEL ROAD, 130 FEET NORTHEAST

LB0927'OF AND ACROSS THE ROAD FROM THE NORTHEAST CORNER OF A LARGE BARN,

LB0927'ABOUT 0.15 MILE WEST OF A RAILROAD CROSSING, 89 FEET NORTHEAST OF

LB0927'AND ACROSS THE ROAD FROM THE CENTER OF A GATE LEADING INTO THE

LB0927'BARN YARD, 21 FEET NORTH OF AND ABOUT LEVEL WITH THE CENTER LINE

LB0927'OF THE ROAD, AND ABOUT 2 FEET WEST OF A WHITE WOODEN WITNESS POST.
LB0927'A STANDARD REFERENCE-MARK DISK, STAMPED STOCKWELL AZIMUTH 1934 AND
LB0927'SET IN THE TOP OF A CONCRETE POST PROJECTING 3 INCHES ABOVE GROUND.

LB0927

LB0927 STATION RECOVERY (1970)

LB0927

LB0927'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1970

LB0927'RECOVERED IN GOOD CONDITION.

LB0927

LB0927 STATION RECOVERY (2002)

LB0927

LB0927'RECOVERY NOTE BY GRW ENGINEERS INDIANAPOLIS IN 2002 (JES)

LB0927'POINT IS 66.3 FEET WEST OF POWER POLE CHI-7 63, 75 FEET EAST OF THE

LB0927'CENTER OF A STONE DRIVE AND 75.6 FEET NORTHEAST OF AND ACROSS THE ROAD

LB0927'FROM A WOOD GATE POST.

LB0927

LB0927 STATION RECOVERY (2010)

LB0927

LB0927'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2010 (SAP)

LB0927'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB1086 *****

LB1086 FBN - This is a Federal Base Network Control Station.

LB1086 DESIGNATION - S 107

LB1086 PID - LB1086

LB1086 STATE/COUNTY- IN/WHITE

LB1086 USGS QUAD - MONON (1980)

LB1086

LB1086 *CURRENT SURVEY CONTROL

LB1086

LB1086* NAD 83(2007)- 40 52 03.42914(N) 086 57 06.92382(W) ADJUSTED

LB1086* NAVD 88 - 207.118 (meters) 679.52 (feet) ADJUSTED

LB1086

LB1086 EPOCH DATE - 2002.00

LB1086 X - 256,848.702 (meters) COMP

LB1086 Y - -4,823,520.626 (meters) COMP

LB1086 Z - 4,151,430.437 (meters) COMP

LB1086 LAPLACE CORR- -1.46 (seconds) DEFLEC09

LB1086 ELLIP HEIGHT- 173.512 (meters) (02/10/07) ADJUSTED

LB1086 GEOID HEIGHT- -33.62 (meters) GEOID09

LB1086 DYNAMIC HT - 207.025 (meters) 679.21 (feet) COMP

LB1086

LB1086 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

LB1086 Type PID Designation North East Ellip

LB1086 -----

LB1086 NETWORK LB1086 S 107 0.43 0.27 0.90

LB1086 -----

LB1086 MODELED GRAV- 980,172.3 (mgal) NAVD 88

LB1086

LB1086 VERT ORDER - SECOND CLASS 0

LB1086

LB1086.The horizontal coordinates were established by GPS observations

LB1086.and adjusted by the National Geodetic Survey in February 2007.

LB1086

LB1086.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

LB1086.See National Readjustment for more information.

LB1086.The horizontal coordinates are valid at the epoch date displayed above.

LB1086.The epoch date for horizontal control is a decimal equivalence
 LB1086.of Year/Month/Day.
 LB1086
 LB1086.The orthometric height was determined by differential leveling and
 LB1086.adjusted in June 1991.
 LB1086
 LB1086.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 LB1086
 LB1086.The Laplace correction was computed from DEFLEC09 derived deflections.
 LB1086
 LB1086.The ellipsoidal height was determined by GPS observations
 LB1086.and is referenced to NAD 83.
 LB1086
 LB1086.The geoid height was determined by GEOID09.
 LB1086
 LB1086.The dynamic height is computed by dividing the NAVD 88
 LB1086.geopotential number by the normal gravity value computed on the
 LB1086.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 LB1086.degrees latitude (g = 980.6199 gals.).
 LB1086
 LB1086.The modeled gravity was interpolated from observed gravity values.
 LB1086

LB1086;	North	East	Units	Scale	Factor	Converg.
LB1086;SPC IN W	- 623,865.763	911,077.933	MT	0.99996818		+0 05 09.5
LB1086;SPC IN W	- 2,046,799.59	2,989,094.85	sFT	0.99996818		+0 05 09.5
LB1086;UTM 16	- 4,524,062.819	504,051.405	MT	0.99960020		+0 01 53.2
LB1086!	- Elev Factor	x Scale Factor	=	Combined Factor		
LB1086!SPC IN W	- 0.99997278	x 0.99996818	=	0.99994096		
LB1086!UTM 16	- 0.99997278	x 0.99960020	=	0.99957299		

LB1086

LB1086 SUPERSEDED SURVEY CONTROL

LB1086

LB1086	NAD 83(1997)-	40 52 03.42915(N)	086 57 06.92375(W)	AD()	B
LB1086	ELLIP H (04/10/98)	173.505 (m)		GP()	4 1
LB1086	NAVD 88 (03/12/99)	207.12 (m)	679.5	(f) LEVELING	3
LB1086	NGVD 29 (??/??/92)	207.209 (m)	679.82	(f) ADJ UNCH	2 0

LB1086

LB1086.Superseded values are not recommended for survey control.
 LB1086.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 LB1086.See file dsdata.txt to determine how the superseded data were derived.

LB1086

LB1086_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL0405124062(NAD 83)

LB1086_MARKER: DB = BENCH MARK DISK

LB1086_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB1086_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LB1086_STAMPING: S 107 1946

LB1086_MARK LOGO: CGS

LB1086_PROJECTION: PROJECTING 4 CENTIMETERS

LB1086_MAGNETIC: O = OTHER; SEE DESCRIPTION

LB1086_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB1086+STABILITY: SURFACE MOTION

LB1086_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LB1086+SATELLITE: SATELLITE OBSERVATIONS - May 19, 2009

LB1086

LB1086 HISTORY - Date Condition Report By

LB1086 HISTORY - 1946 MONUMENTED CGS

4/28/2011

DATASHEETS

LB1086	HISTORY	- 19970519	GOOD	NGS
LB1086	HISTORY	- 19980724	GOOD	WOOLPT
LB1086	HISTORY	- 20030624	GOOD	INDOT
LB1086	HISTORY	- 20080220	GOOD	ACCU
LB1086	HISTORY	- 20080421	GOOD	FARNGP
LB1086	HISTORY	- 20090519	GOOD	WOOLPT

LB1086

LB1086

LB1086

STATION DESCRIPTION

LB1086'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LB1086'3.8 MI W FROM MONON.

LB1086'ABOUT 3.8 MILES WEST ALONG STATE HIGHWAY 16 FROM THE SCHOOL

LB1086'BUILDING AT MONON, 0.2 MILE WEST OF A PROMINENT NORTH-SOUTH

LB1086'FENCE LINE, 39 FEET NORTH OF THE CENTER LINE OF THE HIGHWAY, 14

LB1086'FEET NORTH OF A LONE HICKORY TREE ON THE NORTH HIGHWAY

LB1086'RIGHT-OF-WAY, 51 FEET SOUTHEAST OF THE WELL TUBEING OF A

LB1086'WINDMILL, 6.8 FEET WEST OF THE WEST GATE POST AT A GATE IN THE

LB1086'NORTH RIGHT-OF-WAY FENCE, 28.8 FEET EAST OF A HIGHWAY

LB1086'RIGHT-OF-WAY MARKER, 1 FOOT SOUTH OF THE FENCE LINE, SET IN THE

LB1086'TOP OF A CONCRETE POST PROJECTING 4 INCHES AND ABOUT 1 FOOT ABOVE

LB1086'THE LEVEL OF THE HIGHWAY.

LB1086

LB1086

STATION RECOVERY (1997)

LB1086

LB1086'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (CSM)

LB1086'THE STATION IS LOCATED ABOUT 6.15 KM (3.80 MI) WEST OF MONON, ALONG

LB1086'THE NORTH SIDE OF STATE HIGHWAY 16, SOUTH-SOUTHEAST OF A WINDMILL,

LB1086'JUST WEST OF A FIELD ENTRANCE AND GATE AND JUST SOUTH OF A

LB1086'RIGHT-OF-WAY FENCE AND WITNESS POST. OWNERSHIP--STATE OF INDIANA. TO

LB1086'REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 421 AND STATE

LB1086'HIGHWAY 16 NEAR THE CENTER OF MONON, GO WEST FOR 1.75 KM (1.10 MI) ON

LB1086'HIGHWAY 16 TO A RAILROAD CROSSING. CONTINUE WEST FOR 4.4 KM (2.75 MI)

LB1086'ON HIGHWAY 16 TO A FIELD ENTRANCE ON THE RIGHT AT A WINDMILL AND THE

LB1086'STATION, JUST WEST OF THE FIELD ENTRANCE. STATION IS 11.7 M (38.4 FT)

LB1086'NORTH OF THE HIGHWAY 16 CENTERLINE, 7.7 M (25.3 FT) EAST OF A CONCRETE

LB1086'STATE RIGHT-OF-WAY MARKER ABOUT 2-FOOT HIGH, 5.0 M (16.4 FT) WEST OF A

LB1086'FIELD ENTRANCE CENTER WITH GATE, 2.3 M (7.5 FT) WEST OF THE WEST GATE

LB1086'POST, 0.2 M (0.7 FT) EAST-SOUTHEAST OF A WITNESS POST, 0.1 M (0.3 FT)

LB1086'SOUTH OF A RIGHT-OF-WAY FENCE, ABOUT 0.2 M (0.7 FT) ABOVE THE HIGHWAY

LB1086'16 LEVEL AND PROJECTING ABOUT 4 CM ABOVE GROUND.

LB1086

LB1086

STATION RECOVERY (1998)

LB1086

LB1086'RECOVERY NOTE BY WOOLPERT CONSULTANTS 1998 (BBS)

LB1086'RECOVERED AS DESCRIBED. WOOLPERT LLP 1998 (BBS).

LB1086

LB1086

STATION RECOVERY (2003)

LB1086

LB1086'RECOVERY NOTE BY INDIANA DEPARTMENT OF TRANSPORTATION 2003 (JRK)

LB1086'RECOVERED AS DESCRIBED.

LB1086

LB1086

STATION RECOVERY (2008)

LB1086

LB1086'RECOVERY NOTE BY ACCU AIR SURVEYS INCORPORATED 2008

LB1086'RECOVERED IN GOOD CONDITION.

LB1086

LB1086

STATION RECOVERY (2008)

LB1086

LB1086'RECOVERY NOTE BY FARNSWORTH GROUP 2008 (KDV)

LB1086'SATELLITE OBSERVATION ON APRIL 30 2008

LB1086

LB1086

STATION RECOVERY (2009)

LB1086

LB1086'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2009 (BJM)

LB1086'THIS STATION WAS RECOVERED AS DESCRIBED AND FOUND IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB1126 *****

LB1126 DESIGNATION - W 127

LB1126 PID - LB1126

LB1126 STATE/COUNTY- IN/WHITE

LB1126 USGS QUAD - IDAVILLE (1977)

LB1126

LB1126

*CURRENT SURVEY CONTROL

LB1126

LB1126* NAD 83(1997)- 40 52 09.51794(N) 086 44 46.53382(W) ADJUSTED

LB1126* NAVD 88 - 208.651 (meters) 684.55 (feet) ADJUSTED

LB1126

LB1126 X - 274,154.181 (meters) COMP

LB1126 Y - -4,822,445.966 (meters) COMP

LB1126 Z - 4,151,573.411 (meters) COMP

LB1126 LAPLACE CORR- -0.47 (seconds) DEFLEC09

LB1126 ELLIP HEIGHT- 174.940 (meters) (05/25/99) ADJUSTED

LB1126 GEOID HEIGHT- -33.72 (meters) GEOID09

LB1126 DYNAMIC HT - 208.558 (meters) 684.24 (feet) COMP

LB1126 MODELED GRAV- 980,171.7 (mgal) NAVD 88

LB1126

LB1126 HORZ ORDER - SECOND

LB1126 VERT ORDER - SECOND CLASS 0

LB1126 ELLP ORDER - FOURTH CLASS I

LB1126

LB1126.The horizontal coordinates were established by classical geodetic methods

LB1126.and adjusted by the National Geodetic Survey in May 1999.

LB1126

LB1126.The orthometric height was determined by differential leveling and

LB1126.adjusted in June 1991.

LB1126

LB1126.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LB1126

LB1126.The Laplace correction was computed from DEFLEC09 derived deflections.

LB1126

LB1126.The ellipsoidal height was determined by GPS observations

LB1126.and is referenced to NAD 83.

LB1126

LB1126.The geoid height was determined by GEOID09.

LB1126

LB1126.The dynamic height is computed by dividing the NAVD 88

LB1126.geopotential number by the normal gravity value computed on the

LB1126.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LB1126.degrees latitude (g = 980.6199 gals.).

LB1126

LB1126.The modeled gravity was interpolated from observed gravity values.

LB1126

LB1126; North East Units Scale Factor Converg.

LB1126;SPC IN W - 624,099.961 928,414.798 MT 0.99997660 +0 13 14.0

4/28/2011

DATASHEETS

LB1126;SPC IN W - 2,047,567.96 3,045,974.22 sFT 0.99997660 +0 13 14.0
 LB1126;UTM 16 - 4,524,280.437 521,382.079 MT 0.99960563 +0 09 57.7
 LB1126
 LB1126! - Elev Factor x Scale Factor = Combined Factor
 LB1126!SPC IN W - 0.99997256 x 0.99997660 = 0.99994916
 LB1126!UTM 16 - 0.99997256 x 0.99960563 = 0.99957820

SUPERSEDED SURVEY CONTROL

LB1126 NAD 83(1986)- 40 52 09.52147(N) 086 44 46.54686(W) AD() 2
 LB1126 NAD 27 - 40 52 09.37240(N) 086 44 46.50350(W) AD() 2
 LB1126 NGVD 29 (??/??/92) 208.768 (m) 684.93 (f) ADJ UNCH 2 0

LB1126.Superseded values are not recommended for survey control.
 LB1126.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 LB1126.See file dsdata.txt to determine how the superseded data were derived.

LB1126_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL2138224280(NAD 83)

LB1126_MARKER: DB = BENCH MARK DISK

LB1126_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB1126_SP_SET: CONCRETE POST

LB1126_STAMPING: W 127 1946

LB1126_MARK LOGO: CGS

LB1126_MAGNETIC: N = NO MAGNETIC MATERIAL

LB1126_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

LB1126_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LB1126+SATELLITE: SATELLITE OBSERVATIONS - July 15, 1988

LB1126

LB1126 HISTORY	- Date	Condition	Report By
LB1126 HISTORY	- 1946	MONUMENTED	CGS
LB1126 HISTORY	- 1947	GOOD	CGS
LB1126 HISTORY	- 19880715	GOOD	NGS

LB1126

STATION DESCRIPTION

LB1126'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LB1126'0.9 MI S FROM BUFFALO.

LB1126'ABOUT 0.9 MILE SOUTH ALONG STATE HIGHWAY 39 FROM THE SCHOOL

LB1126'BUILDING AT BUFFALO, IN THE NORTHWEST QUARTER OF A CROSS ROAD,

LB1126'105 FEET NORTH OF THE CENTER LINE OF THE EAST-WEST ROAD, 34.5 FEET

LB1126'WEST OF THE CENTER LINE OF THE HIGHWAY, 55 FEET SOUTH OF POWER

LB1126'POLE NUMBER 711-192, 1 FOOT EAST OF A FENCE LINE, ABOUT LEVEL

LB1126'WITH THE HIGHWAY AND SET IN THE TOP OF A CONCRETE POST PROJECTING

LB1126'6 INCHES.

LB1126

STATION RECOVERY (1947)

LB1126

LB1126'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1947 (RCB)

LB1126'THIS IS A TRAVERSE STATION.

LB1126'

LB1126'STATION IS LOCATED ABOUT 14 MILES WEST OF ROYAL CENTER AND ABOUT 14

LB1126'MILES SOUTHWEST OF WINAMAC ON THE WEST SIDE OF STATE HIGHWAY NO. 39.

LB1126'IT IS 105 FEET NORTH OF AN EAST-WEST GRAVEL ROAD, 32 FEET WEST OF

LB1126'THE CENTER OF THE HIGHWAY AND 2 FEET EAST OF A NORTH-SOUTH FENCE

LB1126'LINE. THE MARK IS A 6 X 6 INCH CONCRETE POST SET FLUSH WITH THE

LB1126'GROUND WITH A STANDARD USC AND GS BM DISK STAMPED W 127 1946. A

LB1126'TRAVERSE CONNECTION WAS MADE TO TRIANGULATION STATION

LB1126'BUFFALO AND THE DISTANCE FOUND TO BE 93.364 METERS (306.31 FEET).

LB1126'

LB1126'TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY NO. 35 AND
 LB1126'STATE HIGHWAYS NO. 16 AND NO. 29 IN ROYAL CENTER, GO WEST ON HIGHWAY
 LB1126'NO. 16 FOR 13.9 MILES TO JUNCTION OF STATE HIGHWAYS NO. 16, NO. 39
 LB1126'AND NO. 119 IN BUFFALO, TURN SOUTH ON STATE HIGHWAY NO. 39 AND GO
 LB1126'0.95 MILE TO STATION ON RIGHT AS DESCRIBED.

LB1126

LB1126

LB1126

STATION RECOVERY (1988)

LB1126'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1988

LB1126'THE STATION IS LOCATED ABOUT 32.2 KM (20.00 MI) NORTHWEST OF
 LB1126'LOGANSPOUT, 14.5 KM (9.00 MI) NORTH OF MONTICELLO, 2.4 KM (1.50 MI)
 LB1126'SOUTH OF BUFFALO AND ON ROAD RIGHT-OF-WAY. OWNERSHIP--INDIANA
 LB1126'DEPARTMENT OF HIGHWAYS, 100 NORTH SENATE AVENUE, ROOM 1101, STATE
 LB1126'OFFICE BUILDING, INDIANAPOLIS, IN 46204, PHONE 317-232-5533.
 LB1126'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 24 AND STATE
 LB1126'HIGHWAY 39 ON THE EAST SIDE OF MONTICELLO, GO NORTH ON STATE HIGHWAY
 LB1126'39 FOR 13.6 KM (8.45 MI) TO A CROSSROAD, HICKMAN ROAD, AND THE
 LB1126'STATION JUST BEYOND ON THE LEFT. THE STATION CAN ALSO BE REACHED FROM
 LB1126'THE JUNCTION OF STATE HIGHWAYS 39, 16 AND 119 ON THE SOUTH SIDE OF
 LB1126'BUFFALO BY GOING SOUTH ON STATE HIGHWAY 39 FOR 1.45 KM (0.90 MI) TO
 LB1126'THE STATION ON THE RIGHT JUST BEFORE REACHING HICKMAN ROAD.
 LB1126'THE STATION IS A STANDARD CGS BENCH MARK DISK STAMPED---W 127
 LB1126'1946---, SET IN THE TOP OF A SQUARE CONCRETE POST. LOCATED 32.0 M
 LB1126'(105.0 FT) NORTH FROM THE CENTER OF HICKMAN ROAD, 15.79 M (51.8 FT)
 LB1126'SOUTH FROM A UTILITY POLE, 9.75 M (32.0 FT) WEST FROM CENTER OF
 LB1126'HIGHWAY 39 AND 0.46 M (1.5 FT) EAST FROM A WITNESS POST IN FENCELINE.
 LB1126'GPS SURVEY, FAA AIRPORTS, INDIANA.
 LB1126'DESCRIBED BY D.L. ADAMS.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB1139 *****

LB1139 CBN - This is a Cooperative Base Network Control Station.

LB1139 DESIGNATION - G 129

LB1139 PID - LB1139

LB1139 STATE/COUNTY- IN/PULASKI

LB1139 USGS QUAD - MONON NE (1962)

LB1139

LB1139

LB1139

*CURRENT SURVEY CONTROL

LB1139* NAD 83(2007)- 40 59 04.84804(N) 086 52 05.22931(W) ADJUSTED

LB1139* NAVD 88 - 204.987 (meters) 672.53 (feet) ADJUSTED

LB1139

LB1139 EPOCH DATE - 2002.00

LB1139 X - 263,438.205 (meters) COMP

LB1139 Y - -4,814,634.572 (meters) COMP

LB1139 Z - 4,161,251.388 (meters) COMP

LB1139 LAPLACE CORR- -0.55 (seconds) DEFLEC09

LB1139 ELLIP HEIGHT- 171.312 (meters) (02/10/07) ADJUSTED

LB1139 GEOID HEIGHT- -33.67 (meters) GEOID09

LB1139 DYNAMIC HT - 204.896 (meters) 672.23 (feet) COMP

LB1139

LB1139 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

LB1139 Type PID Designation North East Ellip

LB1139 -----

LB1139 NETWORK LB1139 G 129 0.82 0.61 1.67

LB1139 -----

LB1139 MODELED GRAV- 980,178.2 (mgal) NAVD 88

LB1139

LB1139 VERT ORDER - SECOND CLASS 0

LB1139

LB1139.The horizontal coordinates were established by GPS observations

LB1139.and adjusted by the National Geodetic Survey in February 2007.

LB1139

LB1139.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

LB1139.See National Readjustment for more information.

LB1139.The horizontal coordinates are valid at the epoch date displayed above.

LB1139.The epoch date for horizontal control is a decimal equivalence

LB1139.of Year/Month/Day.

LB1139

LB1139.The orthometric height was determined by differential leveling and

LB1139.adjusted in June 1991.

LB1139

LB1139.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LB1139

LB1139.The Laplace correction was computed from DEFLEC09 derived deflections.

LB1139

LB1139.The ellipsoidal height was determined by GPS observations

LB1139.and is referenced to NAD 83.

LB1139

LB1139.The geoid height was determined by GEOID09.

LB1139

LB1139.The dynamic height is computed by dividing the NAVD 88

LB1139.geopotential number by the normal gravity value computed on the

LB1139.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LB1139.degrees latitude (g = 980.6199 gals.).

LB1139

LB1139.The modeled gravity was interpolated from observed gravity values.

LB1139

LB1139;

	North	East	Units	Scale Factor	Converg.
LB1139;SPC IN W	- 636,879.219	918,110.671	MT	0.99997070	+0 08 28.1
LB1139;SPC IN W	- 2,089,494.57	3,012,168.09	sFT	0.99997070	+0 08 28.1
LB1139;UTM 16	- 4,537,064.774	511,093.942	MT	0.99960151	+0 05 11.4

LB1139

LB1139! - Elev Factor x Scale Factor = Combined Factor

LB1139!SPC IN W - 0.99997313 x 0.99997070 = 0.99994383

LB1139!UTM 16 - 0.99997313 x 0.99960151 = 0.99957465

LB1139

LB1139 SUPERSEDED SURVEY CONTROL

LB1139

LB1139 NAD 83(1997)- 40 59 04.84797(N) 086 52 05.22929(W) AD() A

LB1139 ELLIP H (01/19/05) 171.312 (m) GP() 4 1

LB1139 NAVD 88 (01/19/05) 204.99 (m) 672.5 (f) LEVELING 3

LB1139 NGVD 29 (??/??/92) 205.085 (m) 672.85 (f) ADJ UNCH 2 0

LB1139

LB1139.Superseded values are not recommended for survey control.

LB1139.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LB1139.See file dsdata.txt to determine how the superseded data were derived.

LB1139

LB1139_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL1109337064(NAD 83)

LB1139_MARKER: DB = BENCH MARK DISK

LB1139_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB1139_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LB1139_STAMPING: G 129 1946

LB1139_MARK LOGO: CGS
 LB1139_PROJECTION: PROJECTING 15 CENTIMETERS
 LB1139_MAGNETIC: O = OTHER; SEE DESCRIPTION
 LB1139_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 LB1139+STABILITY: SURFACE MOTION
 LB1139_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 LB1139+SATELLITE: SATELLITE OBSERVATIONS - March 18, 2010

LB1139

LB1139	HISTORY	- Date	Condition	Report By
LB1139	HISTORY	- 1946	MONUMENTED	CGS
LB1139	HISTORY	- 1989	GOOD	USPSQD
LB1139	HISTORY	- 20030612	GOOD	ABSHER
LB1139	HISTORY	- 20100318	GOOD	AEROME

LB1139

LB1139

STATION DESCRIPTION

LB1139

LB1139'DESCRIBED BY COAST AND GEODETIC SURVEY 1946
 LB1139'0.8 MI E FROM FRANCESVILLE.
 LB1139'ABOUT 0.75 MILE EAST ALONG A PAVED ROAD FROM THE POST OFFICE AT
 LB1139'FRANCESVILLE, ABOUT 0.3 MILE WEST OF A STEEL BRIDGE OVER BIG
 LB1139'MONON CREEK, 94 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF A HOUSE,
 LB1139'58 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF A GARAGE, 27 FEET
 LB1139'NORTH OF THE CENTER LINE OF THE ROAD, 43 FEET WEST OF THE CENTER
 LB1139'LINE OF A DRIVEWAY, 1 FOOT NORTH OF THE NORTH RIGHT-OF-WAY FENCE
 LB1139'LINE, ABOUT LEVEL WITH THE CENTER LINE OF THE ROAD AND SET IN
 LB1139'THE TOP OF A CONCRETE POST PROJECTING ABOUT 6 INCHES.

LB1139

LB1139

STATION RECOVERY (1989)

LB1139

LB1139'RECOVERY NOTE BY US POWER SQUADRON 1989 (TCR)
 LB1139'RECOVERED IN GOOD CONDITION.

LB1139

LB1139

STATION RECOVERY (2003)

LB1139

LB1139'RECOVERY NOTE BY ABSHER SURVEYING 2003 (DA)
 LB1139'RECOVERED AS DESCRIBED WITH THE FOLLOWING ADDITION.
 LB1139'

LB1139'THE STATION IS 16 FT NORTH OF THE NORTH EDGE OF BITUMINOUS SURFACE OF
 LB1139'COUNTY ROAD 500 SOUTH.

LB1139

LB1139

STATION RECOVERY (2010)

LB1139

LB1139'RECOVERY NOTE BY AERO METRIC INC 2010
 LB1139'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB1153 *****

LB1153 CBN - This is a Cooperative Base Network Control Station.

LB1153 DESIGNATION - W 129

LB1153 PID - LB1153

LB1153 STATE/COUNTY- IN/PULASKI

LB1153 USGS QUAD - BUFFALO (1979)

LB1153

LB1153

*CURRENT SURVEY CONTROL

LB1153

LB1153* NAD 83(2007)- 40 58 12.27928(N) 086 37 55.38995(W) ADJUSTED

LB1153* NAVD 88 - 213.852 (meters) 701.61 (feet) ADJUSTED

LB1153

4/28/2011

DATASHEETS

LB1153 EPOCH DATE - 2002.00
 LB1153 X - 283,335.737 (meters) COMP
 LB1153 Y - -4,814,576.591 (meters) COMP
 LB1153 Z - 4,160,032.867 (meters) COMP
 LB1153 LAPLACE CORR- -0.82 (seconds) DEFLECO9
 LB1153 ELLIP HEIGHT- 180.169 (meters) (02/10/07) ADJUSTED
 LB1153 GEOID HEIGHT- -33.68 (meters) GEOID09
 LB1153 DYNAMIC HT - 213.759 (meters) 701.31 (feet) COMP

LB1153 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

Type	PID	Designation	North	East	Ellip
NETWORK	LB1153	W 129	0.69	0.51	1.33

LB1153 -----

LB1153 NETWORK LB1153 W 129 0.69 0.51 1.33

LB1153 -----

LB1153 MODELED GRAV- 980,184.4 (mgal) NAVD 88

LB1153

LB1153 VERT ORDER - SECOND CLASS 0

LB1153

LB1153.The horizontal coordinates were established by GPS observations

LB1153.and adjusted by the National Geodetic Survey in February 2007.

LB1153

LB1153.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

LB1153.See National Readjustment for more information.

LB1153.The horizontal coordinates are valid at the epoch date displayed above.

LB1153.The epoch date for horizontal control is a decimal equivalence

LB1153.of Year/Month/Day.

LB1153

LB1153.The orthometric height was determined by differential leveling and

LB1153.adjusted in June 1991.

LB1153

LB1153.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LB1153

LB1153.The Laplace correction was computed from DEFLECO9 derived deflections.

LB1153

LB1153.The ellipsoidal height was determined by GPS observations

LB1153.and is referenced to NAD 83.

LB1153

LB1153.The geoid height was determined by GEOID09.

LB1153

LB1153.The dynamic height is computed by dividing the NAVD 88

LB1153.geopotential number by the normal gravity value computed on the

LB1153.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LB1153.degrees latitude (g = 980.6199 gals.).

LB1153

LB1153.The modeled gravity was interpolated from observed gravity values.

LB1153

LB1153;	North	East	Units	Scale	Factor	Converg.
LB1153;SPC IN W	- 635,333.395	937,984.530	MT	0.99998442	+0 17 45.2	
LB1153;SPC IN W	- 2,084,422.98	3,077,370.91	sFT	0.99998442	+0 17 45.2	
LB1153;UTM 16	- 4,535,500.576	530,958.947	MT	0.99961180	+0 14 28.5	

LB1153

LB1153! - Elev Factor x Scale Factor = Combined Factor

LB1153!SPC IN W - 0.99997174 x 0.99998442 = 0.99995616

LB1153!UTM 16 - 0.99997174 x 0.99961180 = 0.99958355

LB1153

LB1153

SUPERSEDED SURVEY CONTROL

LB1153

4/28/2011

DATASHEETS

LB1153	NAD 83(1997)-	40 58 12.27923(N)	086 37 55.38995(W)	AD()	A
LB1153	ELLIP H (01/19/05)	180.170 (m)		GP()	4 1
LB1153	NAVD 88 (01/19/05)	213.85 (m)	701.6	(f) LEVELING	3
LB1153	NGVD 29 (??/??/92)	213.959 (m)	701.96	(f) ADJ UNCH	2 0

LB1153

LB1153.Superseded values are not recommended for survey control.

LB1153.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LB1153.See file dsdata.txt to determine how the superseded data were derived.

LB1153

LB1153_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL3095835500(NAD 83)

LB1153_MARKER: DB = BENCH MARK DISK

LB1153_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB1153_SP_SET: SET IN TOP OF CONCRETE MONUMENT

LB1153_STAMPING: W 129 1946

LB1153_MARK LOGO: CGS

LB1153_MAGNETIC: O = OTHER; SEE DESCRIPTION

LB1153_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB1153+STABILITY: SURFACE MOTION

LB1153_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LB1153+SATELLITE: SATELLITE OBSERVATIONS - June 12, 2003

LB1153

LB1153	HISTORY	- Date	Condition	Report By
LB1153	HISTORY	- 1946	MONUMENTED	CGS
LB1153	HISTORY	- 20030612	GOOD	ABSHER

LB1153

STATION DESCRIPTION

LB1153

LB1153'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LB1153'1.4 MI E FROM PULASKI.

LB1153'ABOUT 1.4 MILE EAST ALONG A PAVED ROAD FROM ST. JOSEPH CHURCH

LB1153'AT PULASKI, AT THE INTERSECTION WITH A NORTH-SOUTH GRAVEL ROAD,

LB1153'51 FEET EAST OF THE CENTER LINE OF THE GRAVEL ROAD, 21 FEET NORTH

LB1153'OF THE CENTER LINE OF THE PAVED ROAD, 31.5 FEET EAST OF REA POWER

LB1153'POLE 131 D 21, 2 FEET EAST OF A WHITE WOODEN WITNESS POST, 1 FOOT

LB1153'SOUTH OF A FENCE LINE, ABOUT 1 FOOT LOWER THAN ROAD LEVEL AND SET

LB1153'IN THE TOP OF A CONCRETE POST PROJECTING ABOUT 6 INCHES.

LB1153

STATION RECOVERY (2003)

LB1153

LB1153'RECOVERY NOTE BY ABSHER SURVEYING 2003 (DLA)

LB1153'RECOVERED AS DESCRIBED WITH THE FOLLOWING ADDITIONS.

LB1153'

LB1153'THE STATION IS 10 FT NORTH OF THE NORTH EDGE OF COUNTY ROAD 600 SOUTH,

LB1153'THE RIGHT-OF-WAY FENCE IS GONE. THERE IS A WITNESS POST AT THE

LB1153'NORTHWEST CORNER OF THE MONUMENT.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

LB1175 *****

LB1175 DESIGNATION - X 147

LB1175 PID - LB1175

LB1175 STATE/COUNTY- IN/WHITE

LB1175 USGS QUAD - MONTICELLO SOUTH (1987)

LB1175

*CURRENT SURVEY CONTROL

LB1175

LB1175* NAD 83(2007)- 40 39 59.78124(N) 086 48 47.02386(W) ADJUSTED

LB1175* NAVD 88 - 206.782 (meters) 678.42 (feet) ADJUSTED

LB1175

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LB1175 EPOCH DATE - 2002.00
LB1175 X - 269,348.488 (meters) COMP
LB1175 Y - -4,837,437.628 (meters) COMP
LB1175 Z - 4,134,523.313 (meters) COMP
LB1175 LAPLACE CORR- -2.29 (seconds) DEFLECO9
LB1175 ELLIP HEIGHT- 172.977 (meters) (02/10/07) ADJUSTED
LB1175 GEOID HEIGHT- -33.80 (meters) GEOID09
LB1175 DYNAMIC HT - 206.685 (meters) 678.10 (feet) COMP

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LB1175

LB1175 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

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LB1175 Type PID Designation North East Ellip

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LB1175 -----

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LB1175 NETWORK LB1175 X 147 0.80 0.47 1.82

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LB1175 -----

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LB1175 MODELED GRAV- 980,148.2 (mgal) NAVD 88

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LB1175

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LB1175 VERT ORDER - SECOND CLASS 0

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LB1175

LB1175.The horizontal coordinates were established by GPS observations
 LB1175.and adjusted by the National Geodetic Survey in February 2007.

LB1175

LB1175.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

LB1175.See National Readjustment for more information.

LB1175.The horizontal coordinates are valid at the epoch date displayed above.

LB1175.The epoch date for horizontal control is a decimal equivalence

LB1175.of Year/Month/Day.

LB1175

LB1175.The orthometric height was determined by differential leveling and

LB1175.adjusted in June 1991.

LB1175

LB1175.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LB1175

LB1175.The Laplace correction was computed from DEFLECO9 derived deflections.

LB1175

LB1175.The ellipsoidal height was determined by GPS observations

LB1175.and is referenced to NAD 83.

LB1175

LB1175.The geoid height was determined by GEOID09.

LB1175

LB1175.The dynamic height is computed by dividing the NAVD 88

LB1175.geopotential number by the normal gravity value computed on the

LB1175.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LB1175.degrees latitude (g = 980.6199 gals.).

LB1175

LB1175.The modeled gravity was interpolated from observed gravity values.

LB1175

```

LB1175; North East Units Scale Factor Converg.
LB1175;SPC IN W - 601,570.910 922,852.758 MT 0.99997309 +0 10 34.0
LB1175;SPC IN W - 1,973,653.89 3,027,726.09 sFT 0.99997309 +0 10 34.0
LB1175;UTM 16 - 4,501,765.025 515,800.713 MT 0.99960307 +0 07 18.6

```

LB1175

```

LB1175! - Elev Factor x Scale Factor = Combined Factor

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```

LB1175!SPC IN W - 0.99997287 x 0.99997309 = 0.99994596

```

```

LB1175!UTM 16 - 0.99997287 x 0.99960307 = 0.99957595

```

LB1175

LB1175

SUPERSEDED SURVEY CONTROL

LB1175

4/28/2011

DATASHEETS

LB1175	NAD 83(1997)-	40 39 59.78110(N)	086 48 47.02368(W)	AD()	B
LB1175	ELLIP H (03/12/99)	172.981 (m)		GP()	2 1
LB1175	NAVD 88 (03/12/99)	206.78 (m)	678.4 (f)	LEVELING	3
LB1175	NGVD 29 (??/??/92)	206.879 (m)	678.74 (f)	ADJ UNCH	2 0

LB1175 Superseded values are not recommended for survey control.
 LB1175.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 LB1175.See file dsdata.txt to determine how the superseded data were derived.

LB1175
 LB1175_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL1580001765(NAD 83)
 LB1175_MARKER: DB = BENCH MARK DISK
 LB1175_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 LB1175_SP_SET: SET IN TOP OF CONCRETE MONUMENT
 LB1175_STAMPING: X 147 1946
 LB1175_MARK LOGO: CGS
 LB1175_PROJECTION: PROJECTING 2 CENTIMETERS
 LB1175_MAGNETIC: O = OTHER; SEE DESCRIPTION
 LB1175_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 LB1175+STABILITY: SURFACE MOTION
 LB1175_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 LB1175+SATELLITE: SATELLITE OBSERVATIONS - May 19, 2009

LB1175	HISTORY	- Date	Condition	Report By
LB1175	HISTORY	- 1946	MONUMENTED	CGS
LB1175	HISTORY	- 19980724	GOOD	WOOLPT
LB1175	HISTORY	- 20030315	GOOD	INDIV
LB1175	HISTORY	- 20080421	GOOD	FARNGP
LB1175	HISTORY	- 20090519	GOOD	WOOLPT

LB1175
 LB1175 STATION DESCRIPTION

LB1175
 LB1175'DESCRIBED BY COAST AND GEODETIC SURVEY 1946
 LB1175'2.6 MI E FROM CHALMERS.
 LB1175'2.6 MILES EAST ALONG A PAVED ROAD FROM BIG CREEK TOWNSHIP SCHOOL
 LB1175'AT CHALMERS, AT A T JUNCTION WITH A NORTH-SOUTH ROAD, 21 FEET
 LB1175'NORTH OF THE CENTER LINE OF THE ROAD LEADING WEST, 35 FEET WEST
 LB1175'OF THE CENTER LINE OF THE NORTH-SOUTH ROAD, 11 FEET WEST OF A
 LB1175'CONCRETE CORNER FENCE POST, 12 FEET EAST OF A TELEPHONE POLE,
 LB1175'1 1/2 FEET SOUTH OF A FENCE LINE AND 1 1/2 FEET BELOW ROAD LEVEL.
 LB1175'A STANDARD DISK, STAMPED X 147 1946 AND SET IN THE TOP OF A
 LB1175'CONCRETE POST PROJECTING 5 INCHES ABOVE GROUND.

LB1175
 LB1175 STATION RECOVERY (1998)

LB1175
 LB1175'RECOVERY NOTE BY WOOLPERT CONSULTANTS 1998 (TEM)
 LB1175'DESCRIBED BY WOOLPERT LLP 1998 (TEM). 9.0 MI (14.5 KM) SE OF
 LB1175'MONTICELLO 3.0 MI (4.8 KM) EAST OF CHALMERS. TO REACH THE STATION FR
 LB1175'FROM THE INTERSECTION OF INTERSTATE 65 AND STATE ROUTE 43 (EXIT 178 ON
 LB1175'INTERSTATE 65), PROCEED 12.0 MI (19.3 KM) NORTH ALONG STATE ROUTE 43
 LB1175'TO THE INTERSECTION OF STATE ROUTE 43 AND WALNUT STREET IN THE TOWN OF
 LB1175'CHALMERS, TURN RIGHT AND PROCEED 3.0 MILES (4.8 KM) EAST ALONG WALNUT
 LB1175'STREET / CHALMERS ROAD TO THE INTERSECTION OF CHALMERS ROAD AND COUNTY
 LB1175'ROAD 300E, THE STATION IS IN THE NORTHWEST QUADRANT OF THE
 LB1175'INTERSECTION. THE STATION IS A STANDARD BENCHMARK DISK IN A ROUND
 LB1175'CONCRETE MONUMENT, 0.84 M (2.76 FT) EAST OF A BURIED PHONE LINE
 LB1175'MARKER, 6.5 M (21.3 FT) NORTH OF THE CENTERLINE OF CHALMERS ROAD, 12.4
 LB1175'M (40.7 FT) NORTH NORTHEAST OF A POWER POLE ACROSS CHALMERS ROAD.

4/28/2011

DATASHEETS

LB1175

LB1175

STATION RECOVERY (2003)

LB1175

LB1175'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2003

LB1175'RECOVERED AS DESCRIBED

LB1175

LB1175

STATION RECOVERY (2008)

LB1175

LB1175'RECOVERY NOTE BY FARNSWORTH GROUP 2008 (KDV)

LB1175'SATELLITE OBERVATION ON APRIL 30 2008

LB1175

LB1175

STATION RECOVERY (2009)

LB1175

LB1175'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2009 (BJM)

LB1175'THIS STATION WAS RECOVERED AS DESCRIBED AND FOUND IN GOOD CONDITION.

LB1175'

LB1175'NOTE-UPDATES TO THE DESCRIPTION ARE AS FOLLOWS, THE MONUMENT IS A

LB1175'STANDARD 10-INCH BY 10-INCH (25 CM) SQUARE CONCRETE MONUMENT. THE

LB1175'STATION IS 10.6 FT (3.2 M) WEST OF A 1.5 FT (0.5 M) DIAMETER BY 2.8 FT

LB1175'(0.9 M) HIGH CONCRETE POST, 40.1 FT (12.2 M) NORTH-NORTHWEST OF A 1.5

LB1175'FT (0.5 M) DIAMETER BY 3.5 FT (1.1 M) HIGH CONCRETE POST AND 64 FT

LB1175'(19.5 M) NORTHWEST OF A UTILITY POLE.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

MD0968 *****

MD0968 DESIGNATION - B 186 RESET 1966

MD0968 PID - MD0968

MD0968 STATE/COUNTY- IN/WHITLEY

MD0968 USGS QUAD - LAUD (1961)

MD0968

MD0968

*CURRENT SURVEY CONTROL

MD0968

MD0968* NAD 83(1986)- 41 00 15. (N) 085 29 40. (W) SCALED

MD0968* NAVD 88 - 258.44 (meters) 847.9 (feet) RESET

MD0968

MD0968 GEOID HEIGHT- -33.58 (meters) GEOID09

MD0968 VERT ORDER - THIRD

MD0968

MD0968.The horizontal coordinates were scaled from a topographic map and have

MD0968.an estimated accuracy of +/- 6 seconds.

MD0968

MD0968.The orthometric height was computed from unverified reset data.

MD0968

MD0968.The geoid height was determined by GEOID09.

MD0968

MD0968; North East Units Estimated Accuracy

MD0968;SPC IN E - 639,040. 114,490. MT (+/- 180 meters Scaled)

MD0968

MD0968

SUPERSEDED SURVEY CONTROL

MD0968

MD0968 NGVD 29 (??/??/??) 258.58 (m) 848.4 (f) RESET 3

MD0968

MD0968.Superseded values are not recommended for survey control.

MD0968.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

MD0968.See file dsdata.txt to determine how the superseded data were derived.

MD0968

MD0968_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TFL266403(NAD 83)

MD0968_MARKER: DB = BENCH MARK DISK

4/28/2011

DATASHEETS

MD0968_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
MD0968_SP_SET: SET IN TOP OF CONCRETE MONUMENT
MD0968_STAMPING: B 186 1946 RESET 1966
MD0968_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
MD0968+STABILITY: SURFACE MOTION

MD0968 HISTORY - Date Condition Report By
MD0968 HISTORY - 1966 MONUMENTED CGS

STATION DESCRIPTION

MD0968'DESCRIBED BY COAST AND GEODETIC SURVEY 1966
MD0968'4.2 MI E FROM LUTHER.
MD0968'THE MARK IS 4.15 MILES EAST ALONG STATE ROUTE 114 FROM THE
MD0968'INTERSECTION OF STATE ROUTE 5 AT LUTHER, 1.2 MILES WEST OF
MD0968'THE INTERSECTION OF STATE ROUTES 9 AND 114, AND ABOUT 0.25 MILE
MD0968'WEST OF THE JUNCTION OF A T-ROAD LEADING NORTH. IT IS 50 FEET
MD0968'NORTH OF THE APPROXIMATE CENTER OF STATE ROUTE 114, 3 FEET
MD0968'SOUTH OF A LARGE SIGN TOMCO GENETIC GIANT HYBRIDS, 2 FEET
MD0968'EAST OF A FENCE, AND 1.8 FEET SOUTH OF A METAL WITNESS POST
MD0968'AND SIGN. A STANDARD DISK SET IN THE TOP OF A 10-INCH, SQUARE,
MD0968'CONCRETE MONUMENT THAT PROJECTS 6 INCHES AND THE DISK IS STAMPED
MD0968'B 186 1946 RESET 1966.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

MD1058 *****

MD1058 DESIGNATION - W 157
MD1058 PID - MD1058
MD1058 STATE/COUNTY- IN/KOSCIUSKO
MD1058 USGS QUAD - MILFORD (1994)

*CURRENT SURVEY CONTROL

Table with 4 columns: Station ID, Datum/Type, Coordinates, and Status. Includes rows for NAD 83(2007), NAVD 88, EPOCH DATE, X, Y, Z, LAPLACE CORR, ELLIP HEIGHT, GEOID HEIGHT, and DYNAMIC HT.

----- Accuracy Estimates (at 95% Confidence Level in cm) -----

Table with 4 columns: Type, PID, Designation, and Accuracy (North, East, Ellip). Includes row for NETWORK MD1058 W 157.

MD1058 MODELED GRAV- 980,219.2 (mgal) NAVD 88

MD1058 VERT ORDER - FIRST CLASS II

MD1058.The horizontal coordinates were established by GPS observations
MD1058.and adjusted by the National Geodetic Survey in February 2007.

MD1058.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

MD1058. See National Readjustment for more information.

MD1058. No horizontal observational check was made to the station.

MD1058. The horizontal coordinates are valid at the epoch date displayed above.

MD1058. The epoch date for horizontal control is a decimal equivalence

MD1058. of Year/Month/Day.

MD1058

MD1058. The orthometric height was determined by differential leveling and

MD1058. adjusted in June 1991.

MD1058

MD1058. The X, Y, and Z were computed from the position and the ellipsoidal ht.

MD1058

MD1058. The Laplace correction was computed from DEFLEC09 derived deflections.

MD1058

MD1058. The ellipsoidal height was determined by GPS observations

MD1058. and is referenced to NAD 83.

MD1058

MD1058. The geoid height was determined by GEOID09.

MD1058

MD1058. The dynamic height is computed by dividing the NAVD 88

MD1058. geopotential number by the normal gravity value computed on the

MD1058. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

MD1058. degrees latitude ($g = 980.6199$ gals.).

MD1058

MD1058. The modeled gravity was interpolated from observed gravity values.

MD1058

MD1058;	North	East	Units	Scale	Factor	Converg.
MD1058; SPC IN E	- 680,381.537	85,092.398	MT	0.99996940	-0 07 04.1	
MD1058; SPC IN E	- 2,232,218.43	279,173.98	sFT	0.99996940	-0 07 04.1	
MD1058; UTM 16	- 4,581,193.412	596,593.617	MT	0.99971482	+0 45 49.0	
MD1058!	- Elev Factor	x Scale Factor	=	Combined Factor		
MD1058! SPC IN E	- 0.99996492	x 0.99996940	=	0.99993432		
MD1058! UTM 16	- 0.99996492	x 0.99971482	=	0.99967975		

MD1058

SUPERSEDED SURVEY CONTROL

MD1058

MD1058	NAD 83(1997)-	41 22 35.27822(N)	085 50 41.55611(W)	AD()	1
MD1058	ELLIP H (11/27/02)	223.667 (m)		GP()	4 1
MD1058	NAD 83(1997)-	41 22 35.27812(N)	085 50 41.55618(W)	AD()	1
MD1058	ELLIP H (03/18/02)	223.669 (m)		GP()	4 1
MD1058	NAVD 88 (03/18/02)	257.12 (m)	843.6	(f) LEVELING	3
MD1058	NGVD 29 (??/??/92)	257.248 (m)	843.99	(f) ADJ UNCH	1 2

MD1058

MD1058. Superseded values are not recommended for survey control.

MD1058. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

MD1058. See file dsdata.txt to determine how the superseded data were derived.

MD1058

MD1058_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL9659381193(NAD 83)

MD1058_MARKER: DB = BENCH MARK DISK

MD1058_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

MD1058_SP_SET: SET IN TOP OF CONCRETE MONUMENT

MD1058_STAMPING: W 157 1946

MD1058_MARK LOGO: CGS

MD1058_PROJECTION: FLUSH

MD1058_MAGNETIC: N = NO MAGNETIC MATERIAL

MD1058_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

MD1058+STABILITY: SURFACE MOTION

MD1058_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

MD1058+SATELLITE: SATELLITE OBSERVATIONS - May 01, 2001

MD1058

MD1058	HISTORY	- Date	Condition	Report By
MD1058	HISTORY	- 1946	MONUMENTED	CGS
MD1058	HISTORY	- 19930111	GOOD	NGS
MD1058	HISTORY	- 19970612	GOOD	USPSQD
MD1058	HISTORY	- 20010501	GOOD	WOOLPT

MD1058

STATION DESCRIPTION

MD1058

MD1058'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

MD1058'3 MI N FROM LEESBURG.

MD1058'3.0 MILES NORTH ALONG THE NEW YORK CENTRAL RAILROAD FROM THE
MD1058'STATION AT LEESBURG, ABOUT 2.45 MILE SOUTH FROM THE STATION AT
MD1058'MILFORD, 347 FEET SOUTH OF THE CENTER LINE OF A ROAD LEADING WEST,
MD1058'36 FEET EAST OF THE CENTER LINE OF A PAVED ROAD PARALLELING THE
MD1058'TRACK, 25 FEET WEST OF THE WEST RAIL, 6.5 FEET SOUTHEAST OF A
MD1058'RAILROAD RIGHT-OF-WAY MARKER, 2 FEET WEST OF MILE POST 70, ABOUT
MD1058'LEVEL WITH THE TRACK, AND SET IN THE TOP OF A CONCRETE POST
MD1058'PROJECTING 4 INCHES.

MD1058

STATION RECOVERY (1993)

MD1058

MD1058

MD1058'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1993 (RHK)

MD1058'O.4 KM NORTHERLY ALONG MAIN STREET FROM THE POST OFFICE IN MILFORD,
MD1058'THENCE 0.1 KM (0.05 MI) EASTERLY ALONG FOURTH STREET, THENCE 3.8 KM
MD1058'(2.35 MI) SOUTHERLY ALONG THE CONRAIL RAILROAD, 0.1 KM (0.05 MI) SOUTH
MD1058'OF THE JUNCTION OF 1000 NORTH ROAD, 19.3 M (63.3 FT) NORTHEAST OF
MD1058'UTILITY POLE NUMBER 1-059 852, 11.0 M (36.1 FT) EAST OF THE CENTERLINE
MD1058'OF OLD 15 ROAD, 7.8 M (25.6 FT) WEST OF THE NEAR RAIL, 4.3 M (14.1 FT)
MD1058'WEST-SOUTHWEST OF RAILROAD MILE POST 70, 1.7 M (5.6 FT) SOUTHEAST OF A
MD1058'CONCRETE ROW MARKER, 0.6 M (2.0 FT) BELOW THE LEVEL OF THE RAIL, 0.3 M
MD1058'(1.0 FT) SOUTH OF A WITNESS POST, AND THE MONUMENT PROJECTS 0.1 M (0.3
MD1058'FT) ABOVE THE GROUND SURFACE.

MD1058

STATION RECOVERY (1997)

MD1058

MD1058

MD1058'RECOVERY NOTE BY US POWER SQUADRON 1997

MD1058'RECOVERED IN GOOD CONDITION.

MD1058

STATION RECOVERY (2001)

MD1058

MD1058

MD1058'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2001 (ARL)

MD1058'RECOVERED AS DESCRIBED.

MD1058'

MD1058'

MD1058'

MD1058'

MD1058'

MD1058'

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

MD1074 *****

MD1074 DESIGNATION - D 159

MD1074 PID - MD1074

MD1074 STATE/COUNTY- IN/NOBLE

MD1074 USGS QUAD - LIGONIER (1979)

MD1074

MD1074

*CURRENT SURVEY CONTROL

MD1074

MD1074*	NAD 83(1986)-	41 27 50.	(N)	085 34 03.	(W)	SCALED
MD1074*	NAVD 88	-	272.392	(meters)	893.67	(feet) ADJUSTED

MD1074

MD1074	GEOID HEIGHT-	-33.35	(meters)			GEOID09
MD1074	DYNAMIC HT -	272.279	(meters)	893.30	(feet)	COMP
MD1074	MODELED GRAV-	980,202.5	(mgal)			NAVD 88

MD1074

MD1074 VERT ORDER - SECOND CLASS 0

MD1074

MD1074.The horizontal coordinates were scaled from a topographic map and have MD1074.an estimated accuracy of +/- 6 seconds.

MD1074

MD1074.The orthometric height was determined by differential leveling and MD1074.adjusted in June 1991.

MD1074

MD1074.The geoid height was determined by GEOID09.

MD1074

MD1074.The dynamic height is computed by dividing the NAVD 88 MD1074.geopotential number by the normal gravity value computed on the MD1074.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 MD1074.degrees latitude (g = 980.6199 gals.).

MD1074

MD1074.The modeled gravity was interpolated from observed gravity values.

MD1074

MD1074;	North	East	Units	Estimated Accuracy
MD1074;SPC IN E	- 690,080.	108,280.	MT	(+/- 180 meters Scaled)

MD1074

SUPERSEDED SURVEY CONTROL

MD1074

MD1074	NGVD 29 (??/??/92)	272.520	(m)	894.09	(f)	ADJ UNCH	2 0
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MD1074

MD1074.Superseded values are not recommended for survey control.
 MD1074.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 MD1074.See file dsdata.txt to determine how the superseded data were derived.

MD1074

MD1074_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TFL196912(NAD 83)

MD1074_MARKER: DB = BENCH MARK DISK

MD1074_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

MD1074_SP_SET: SET IN TOP OF CONCRETE MONUMENT

MD1074_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

MD1074+STABILITY: SURFACE MOTION

MD1074_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

MD1074+SATELLITE: SATELLITE OBSERVATIONS - July 12, 2006

MD1074

MD1074	HISTORY	- Date	Condition	Report By
MD1074	HISTORY	- UNK	MONUMENTED	CGS
MD1074	HISTORY	- 1961	GOOD	NGS
MD1074	HISTORY	- 20060712	GOOD	INDIV

MD1074

STATION DESCRIPTION

MD1074

MD1074'DESCRIBED BY NATIONAL GEODETIC SURVEY 1961

MD1074'1 MI E FROM LIGONIER.

MD1074'ABOUT 1.05 MILES E ALONG THE NEW YORK CENTRAL RAILROAD FROM THE

4/28/2011

DATASHEETS

MD1074'STATION IN LIGONIER, AT A PUBLIC-ROAD WOODEN BRIDGE OVER THE
MD1074'RAILROAD, 169 FEET (SLOPE) FROM BRIDGE FLOOR DIRECTLY OVER S
MD1074'RAIL OF DOUBLE TRACKS S TO THE MARK, 127 FEET (SLOPE) S OF SW
MD1074'CORNER OF BRIDGE FLOOR, 19 FEET W OF CENTER LINE OF GRAVEL ROAD,
MD1074'1.6 FEET LOWER THAN SAME, 1.5 FEET S OF STEEL WITNESS POST, AND
MD1074'PROJECTING 0.2 FOOT ABOVE GROUND, 1.5 FEET E OF WIRE FENCE.

MD1074

MD1074

STATION RECOVERY (2006)

MD1074

MD1074'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2006 (DAB)

MD1074'BRIDGE OVER RAILROAD IS GONE. MARK IS IN A COPSE OF SMALL THORN

MD1074'TREES, WITNESS POST STILL THERE.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

MD1240 *****

MD1240 DESIGNATION - P 145

MD1240 PID - MD1240

MD1240 STATE/COUNTY- IN/KOSCIUSKO

MD1240 USGS QUAD - BURKET (1994)

MD1240

MD1240

*CURRENT SURVEY CONTROL

MD1240

MD1240* NAD 83(1986)- 41 09 30. (N) 085 56 12. (W) SCALED

MD1240* NAVD 88 - 263.612 (meters) 864.87 (feet) ADJUSTED

MD1240

MD1240 GEOID HEIGHT- -33.65 (meters) GEOID09

MD1240 DYNAMIC HT - 263.498 (meters) 864.49 (feet) COMP

MD1240 MODELED GRAV- 980,184.8 (mgal) NAVD 88

MD1240

MD1240 VERT ORDER - SECOND CLASS 0

MD1240

MD1240.The horizontal coordinates were scaled from a topographic map and have
MD1240.an estimated accuracy of +/- 6 seconds.

MD1240

MD1240.The orthometric height was determined by differential leveling and
MD1240.adjusted in June 1991.

MD1240

MD1240.The geoid height was determined by GEOID09.

MD1240

MD1240.The dynamic height is computed by dividing the NAVD 88

MD1240.geopotential number by the normal gravity value computed on the

MD1240.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

MD1240.degrees latitude (g = 980.6199 gals.).

MD1240

MD1240.The modeled gravity was interpolated from observed gravity values.

MD1240

MD1240; North East Units Estimated Accuracy

MD1240;SPC IN E - 656,180. 77,340. MT (+/- 180 meters Scaled)

MD1240

MD1240

SUPERSEDED SURVEY CONTROL

MD1240

MD1240 NGVD 29 (??/??/92) 263.743 (m) 865.30 (f) ADJ UNCH 2 0

MD1240

MD1240.Superseded values are not recommended for survey control.

MD1240.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

MD1240.See file dsdata.txt to determine how the superseded data were derived.

MD1240

MD1240_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL892568 (NAD 83)

MD1240_MARKER: DB = BENCH MARK DISK
 MD1240_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 MD1240_SP_SET: SET IN TOP OF CONCRETE MONUMENT
 MD1240_STAMPING: P 145 1946
 MD1240_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 MD1240+STABILITY: SURFACE MOTION

MD1240

MD1240	HISTORY	- Date	Condition	Report By
MD1240	HISTORY	- 1946	MONUMENTED	CGS
MD1240	HISTORY	- 19960716	GOOD	USPSQD

MD1240

MD1240 STATION DESCRIPTION

MD1240

MD1240'DESCRIBED BY COAST AND GEODETIC SURVEY 1946
 MD1240'1.6 MI E FROM BURKET.
 MD1240'1.65 MILE EAST ALONG THE BURKET-CLAYPOOL ROAD FROM THE SCHOOL
 MD1240'BUILDING AT BURKET, ABOUT 0.2 MILE EAST OF A CONCRETE SILO AND
 MD1240'WHITE BARN ON THE NORTH SIDE OF THE ROAD, AT A T JUNCTION WITH
 MD1240'A ROAD LEADING SOUTH, 55 FEET WEST OF THE CENTER LINE OF THE ROAD
 MD1240'LEADING SOUTH, 18 FEET SOUTH OF THE CENTER LINE OF THE EAST-WEST
 MD1240'ROAD, 5 FEET SOUTHWEST OF A POWER LINE POLE, 7.5 FEET WEST OF A
 MD1240'VERTICAL IRON RAIL AT A FENCE CORNER, 1 FOOT NORTH OF THE
 MD1240'SOUTH RIGHT-OF-WAY FENCE LINE, 2 FEET EAST OF A WHITE WOODEN
 MD1240'WITNESS POST, ABOUT LEVEL WITH THE ROAD AND SET IN THE TOP OF A
 MD1240'CONCRETE POST PROJECTING ABOUT 6 INCHES.

MD1240

MD1240 STATION RECOVERY (1996)

MD1240

MD1240'RECOVERY NOTE BY US POWER SQUADRON 1996
 MD1240'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

MD1344 *****

MD1344 DESIGNATION - J 160
 MD1344 PID - MD1344
 MD1344 STATE/COUNTY- IN/ELKHART
 MD1344 USGS QUAD - GOSHEN (1994)

MD1344

MD1344 *CURRENT SURVEY CONTROL

MD1344

MD1344*	NAD 83(2007)-	41 31 47.29471(N)	085 49 30.65760(W)	NO CHECK
MD1344*	NAVD 88	- 246.949 (meters)	810.20 (feet)	ADJUSTED

MD1344

MD1344	EPOCH DATE	-	2002.00	
MD1344	X	-	348,124.792 (meters)	COMP
MD1344	Y	-	-4,769,255.260 (meters)	COMP
MD1344	Z	-	4,206,792.342 (meters)	COMP
MD1344	LAPLACE CORR-		2.22 (seconds)	DEFLEC09
MD1344	ELLIP HEIGHT-		213.411 (meters)	(02/10/07) NO CHECK
MD1344	GEOID HEIGHT-		-33.53 (meters)	GEOID09
MD1344	DYNAMIC HT	-	246.852 (meters)	809.88 (feet) COMP

MD1344

MD1344 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

MD1344	Type	PID	Designation	North	East	Ellip
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MD1344

MD1344	NETWORK	MD1344 J 160		1.33	0.82	3.39
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MD1344

MD1344	MODELED GRAV-	980,220.9 (mgal)				NAVD 88
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MD1344

MD1344 VERT ORDER - FIRST CLASS II

MD1344

MD1344.The horizontal coordinates were established by GPS observations
MD1344.and adjusted by the National Geodetic Survey in February 2007.

MD1344

MD1344.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

MD1344.See National Readjustment for more information.

MD1344.No horizontal observational check was made to the station.

MD1344.The horizontal coordinates are valid at the epoch date displayed above.

MD1344.The epoch date for horizontal control is a decimal equivalence

MD1344.of Year/Month/Day.

MD1344

MD1344.The orthometric height was determined by differential leveling and

MD1344.adjusted in June 1991.

MD1344

MD1344.The X, Y, and Z were computed from the position and the ellipsoidal ht.

MD1344

MD1344.The Laplace correction was computed from DEFLEC09 derived deflections.

MD1344

MD1344.The ellipsoidal height was determined by GPS observations

MD1344.and is referenced to NAD 83.

MD1344

MD1344.The geoid height was determined by GEOID09.

MD1344

MD1344.The dynamic height is computed by dividing the NAVD 88

MD1344.geopotential number by the normal gravity value computed on the

MD1344.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

MD1344.degrees latitude (g = 980.6199 gals.).

MD1344

MD1344.The modeled gravity was interpolated from observed gravity values.

MD1344

MD1344;	North	East	Units	Scale	Factor	Converg.
MD1344;SPC IN E	- 697,407.897	86,771.030	MT	0.99996882	-0 06	18.4
MD1344;SPC IN E	- 2,288,079.08	284,681.29	sFT	0.99996882	-0 06	18.4
MD1344;UTM 16	- 4,598,239.306	598,009.384	MT	0.99971821	+0 46	44.3
MD1344!	- Elev Factor	x Scale Factor	=	Combined Factor		
MD1344!SPC IN E	- 0.99996653	x 0.99996882	=	0.99993535		
MD1344!UTM 16	- 0.99996653	x 0.99971821	=	0.99968475		

MD1344

MD1344

SUPERSEDED SURVEY CONTROL

MD1344

MD1344	NAD 83(1997)-	41 31 47.29423(N)	085 49 30.65692(W)	AD()	1
MD1344	ELLIP H (02/05/07)	213.403 (m)		GP()	3 1
MD1344	NAD 83(1997)-	41 31 47.29473(N)	085 49 30.65764(W)	AD()	1
MD1344	ELLIP H (11/27/02)	213.414 (m)		GP()	4 1
MD1344	NAD 83(1997)-	41 31 47.29463(N)	085 49 30.65771(W)	AD()	1
MD1344	ELLIP H (03/18/02)	213.416 (m)		GP()	4 1
MD1344	NAVD 88 (03/18/02)	246.95 (m)	810.2 (f)	LEVELING		3
MD1344	NGVD 29 (??/??/92)	247.073 (m)	810.61 (f)	ADJ UNCH		1 2

MD1344

MD1344.Superseded values are not recommended for survey control.

MD1344.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

MD1344.See file dsdata.txt to determine how the superseded data were derived.

MD1344

MD1344_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL9800998239(NAD 83)

MD1344_MARKER: DB = BENCH MARK DISK
 MD1344_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 MD1344_SP_SET: CONCRETE POST
 MD1344_STAMPING: J 160 1946
 MD1344_MARK LOGO: CGS
 MD1344_PROJECTION: PROJECTING 8 CENTIMETERS
 MD1344_MAGNETIC: N = NO MAGNETIC MATERIAL
 MD1344_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 MD1344+STABILITY: SURFACE MOTION
 MD1344_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 MD1344+SATELLITE: SATELLITE OBSERVATIONS - March 09, 2010

MD1344

MD1344	HISTORY	- Date	Condition	Report By
MD1344	HISTORY	- 1946	MONUMENTED	CGS
MD1344	HISTORY	- 1955	GOOD	NGS
MD1344	HISTORY	- 19870730	GOOD	NGS
MD1344	HISTORY	- 19930108	GOOD	NGS
MD1344	HISTORY	- 20010529	GOOD	WOOLPT
MD1344	HISTORY	- 20061109	GOOD	WOOLPT
MD1344	HISTORY	- 20100309	GOOD	AEROME

MD1344

MD1344

STATION DESCRIPTION

MD1344

MD1344'DESCRIBED BY COAST AND GEODETIC SURVEY 1946
 MD1344'2.1 MI N FROM NEW PARIS.
 MD1344'ABOUT 2.1 MILES NORTH ALONG THE NEW YORK CENTRAL RAILROAD FROM
 MD1344'THE STATION AT NEW PARIS, AT A PAVED ROAD CROSSING, 78 FEET
 MD1344'NORTH OF AND ACROSS THE ROAD FROM POLE NO. 59/14, 39 FEET NORTH
 MD1344'OF THE CENTER LINE OF THE PAVED ROAD, 28 FEET EAST OF THE EAST
 MD1344'RAIL OF THE TRACK, 21.5 FEET NORTH OF THE FENCE CORNER, 1.5
 MD1344'FEET WEST OF THE FENCE LINE, AND 2 FEET NORTH OF A WHITE WOODEN
 MD1344'WITNESS POST. SET ABOUT LEVEL WITH THE TRACK, AND IN THE TOP
 MD1344'OF A CONCRETE POST PROJECTING 5 INCHES. NOTE-- THE PAVED ROAD IN
 MD1344'THE DESCRIPTION IS COUNTY ROAD 42, DELETE THE REFERENCE TO POLE
 MD1344'59/14.

MD1344

MD1344

STATION RECOVERY (1955)

MD1344

MD1344'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1955
 MD1344'RECOVERED IN GOOD CONDITION.

MD1344

MD1344

STATION RECOVERY (1987)

MD1344

MD1344'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1987
 MD1344'FROM THE JUNCTION OF STATE ROUTES 119 WEST AND 15 IN GOSHEN, GO SOUTH
 MD1344'ON STATE ROUTE 15 FOR 3.35 MILES (5.39 KM) TO A SIDE ROAD LEFT,
 MD1344'COUNTY ROAD 42 LEADING TO GOSHEN MUNICIPAL AIRPORT. TURN LEFT GOING
 MD1344'0.1 MILE (0.2 KM) TO A RAILROAD CROSSING AND THE MARK IN THE
 MD1344'NORTHEAST QUADRANT OF THE INTERSECTION OF COUNTY ROAD 42 AND THE
 MD1344'RAILROAD TRACKS, 39.0 FEET (11.9 M) NORTH OF THE CENTER OF COUNTY
 MD1344'ROAD 42, 28.0 FEET (8.5 M) EAST FROM THE EAST RAIL, 21.5 FEET (6.6 M)
 MD1344'NORTH FROM A CONCRETE FENCE CORNER POST, 3.0 FEET (0.9 M)
 MD1344'NORTH-NORTHWEST FROM A WITNESS POST AND 1.0 FOOT (0.3 M) WEST FROM A
 MD1344'NORTH-SOUTH FENCE LINE.

MD1344

MD1344

STATION RECOVERY (1993)

MD1344

4/28/2011

DATASHEETS

MD1344'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1993 (RHK)
MD1344'0.2 KM (0.10 MI) NORTH ALONG MAIN STREET FROM THE POST OFFICE IN NEW
MD1344'PARIS, THENCE 0.2 KM (0.10 MI) WEST ALONG COUNTY ROAD 46, THENCE 3.4
MD1344'KM (2.10 MI) NORTHERLY ALONG THE CONRAIL RAILROAD AT THE JUNCTION OF
MD1344'COUNTY ROAD 42, 12.3 M (40.4 FT) NORTH OF THE CENTERLINE OF COUNTY
MD1344'ROAD 42, 8.7 M (28.5 FT) EAST OF AND LEVEL WITH THE NEAR RAIL, 8.4 M
MD1344'(27.6 FT) NORTHEAST OF A CROSSING SIGNAL LIGHT POLE, 0.9 M (3.0 FT)
MD1344'NORTHWEST OF A WITNESS POST, 0.6 M (2.0 FT) WEST OF A FENCE, AND THE
MD1344'MONUMENT PROJECTS 6 CM ABOVE THE GROUND SURFACE.

MD1344

MD1344 STATION RECOVERY (2001)

MD1344

MD1344'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2001 (BJM)

MD1344'RECOVERED AS DESCRIBED.

MD1344'

MD1344'

MD1344'

MD1344

MD1344 STATION RECOVERY (2006)

MD1344

MD1344'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2006 (JKN)

MD1344'THIS STATION WAS RECOVERED AS DESCRIBED AND FOUND IN GOOD CONDITION.

MD1344

MD1344 STATION RECOVERY (2010)

MD1344

MD1344'RECOVERY NOTE BY AERO METRIC INC 2010

MD1344'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

ME0042 *****

ME0042 CBN - This is a Cooperative Base Network Control Station.

ME0042 DESIGNATION - U 167

ME0042 PID - ME0042

ME0042 STATE/COUNTY- IN/ST JOSEPH

ME0042 USGS QUAD - SOUTH BEND WEST (1986)

ME0042

ME0042 *CURRENT SURVEY CONTROL

ME0042

ME0042* NAD 83(2007)- 41 38 10.00880(N) 086 15 02.25309(W) ADJUSTED

ME0042* NAVD 88 - 246.370 (meters) 808.30 (feet) ADJUSTED

ME0042

ME0042 EPOCH DATE - 2002.00

ME0042 X - 312,189.459 (meters) COMP

ME0042 Y - -4,763,888.061 (meters) COMP

ME0042 Z - 4,215,623.868 (meters) COMP

ME0042 LAPLACE CORR- 0.12 (seconds) DEFLEC09

ME0042 ELLIP HEIGHT- 212.564 (meters) (02/10/07) ADJUSTED

ME0042 GEOID HEIGHT- -33.80 (meters) GEOID09

ME0042 DYNAMIC HT - 246.273 (meters) 807.98 (feet) COMP

ME0042

ME0042 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

ME0042 Type PID Designation North East Ellip

ME0042 -----

ME0042 NETWORK ME0042 U 167 0.59 0.39 1.49

ME0042 -----

ME0042 MODELED GRAV- 980,224.5 (mgal) NAVD 88

ME0042

ME0042 VERT ORDER - SECOND CLASS 0

ME0042

ME0042.The horizontal coordinates were established by GPS observations
ME0042.and adjusted by the National Geodetic Survey in February 2007.

ME0042

ME0042.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

ME0042.See National Readjustment for more information.

ME0042.The horizontal coordinates are valid at the epoch date displayed above.

ME0042.The epoch date for horizontal control is a decimal equivalence

ME0042.of Year/Month/Day.

ME0042

ME0042.The orthometric height was determined by differential leveling and

ME0042.adjusted in June 1991.

ME0042

ME0042.Photographs are available for this station.

ME0042

ME0042.The X, Y, and Z were computed from the position and the ellipsoidal ht.

ME0042

ME0042.The Laplace correction was computed from DEFLEC09 derived deflections.

ME0042

ME0042.The ellipsoidal height was determined by GPS observations

ME0042.and is referenced to NAD 83.

ME0042

ME0042.The geoid height was determined by GEOID09.

ME0042

ME0042.The dynamic height is computed by dividing the NAVD 88

ME0042.geopotential number by the normal gravity value computed on the

ME0042.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

ME0042.degrees latitude (g = 980.6199 gals.).

ME0042

ME0042.The modeled gravity was interpolated from observed gravity values.

ME0042

ME0042;	North	East	Units	Scale	Factor	Converg.
ME0042;SPC IN E	- 709,367.389	51,345.398	MT	0.99999579	-0 23	16.8
ME0042;SPC IN E	- 2,327,316.18	168,455.69	sFT	0.99999579	-0 23	16.8
ME0042;UTM 16	- 4,609,646.801	562,413.916	MT	0.99964794	+0 29	52.4

ME0042

ME0042! Elev Factor x Scale Factor = Combined Factor

ME0042!SPC IN E - 0.99996666 x 0.99999579 = 0.99996245

ME0042!UTM 16 - 0.99996666 x 0.99964794 = 0.99961461

ME0042

ME0042 SUPERSEDED SURVEY CONTROL

ME0042

ME0042	NAD 83(1997)-	41 38 10.00862(N)	086 15 02.25300(W)	AD()	B
ME0042	ELLIP H (04/10/98)	212.600 (m)		GP()	4 1
ME0042	NAVD 88 (04/10/98)	246.37 (m)	808.3	(f) LEVELING	3
ME0042	NGVD 29 (??/??/92)	246.484 (m)	808.67	(f) ADJ UNCH	2 0

ME0042

ME0042.Superseded values are not recommended for survey control.

ME0042.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

ME0042.See file dsdata.txt to determine how the superseded data were derived.

ME0042

ME0042_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEM6241309646(NAD 83)

ME0042_MARKER: DB = BENCH MARK DISK

ME0042_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

ME0042_SP_SET: SET IN TOP OF CONCRETE MONUMENT

ME0042_STAMPING: U 167 1946

ME0042_MARK LOGO: CGS

ME0042_PROJECTION: FLUSH
 ME0042_MAGNETIC: N = NO MAGNETIC MATERIAL
 ME0042_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 ME0042+STABILITY: SURFACE MOTION
 ME0042_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
 ME0042+SATELLITE: SATELLITE OBSERVATIONS - June 23, 2009
 ME0042

ME0042	HISTORY	- Date	Condition	Report By
ME0042	HISTORY	- 1946	MONUMENTED	CGS
ME0042	HISTORY	- 1990	MARK NOT FOUND	USPSQD
ME0042	HISTORY	- 19970805	GOOD	SEC
ME0042	HISTORY	- 20010501	GOOD	WOOLPT
ME0042	HISTORY	- 20060308	GOOD	INDIV
ME0042	HISTORY	- 20070406	GOOD	LFA
ME0042	HISTORY	- 20090623	GOOD	JCLS

ME0042

ME0042 STATION DESCRIPTION

ME0042

ME0042'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

ME0042'2.6 MI S FROM SOUTH BEND.

ME0042'AT SOUTH BEND, ABOUT 2.6 MILES SOUTH ALONG S. MICHIGAN AVE.

ME0042'(U.S. HIGHWAY 31) FROM THE ST. JOSEPH BANK AND TRUST CO., ABOUT

ME0042'0.2 MILE NORTH OF A CITY-LIMIT SIGN, IN THE SOUTHWEST QUARTER

ME0042'OF THE INTERSECTION OF CHIPPEWA AVE., 67 FEET WEST OF THE WEST

ME0042'CURB OF S. MICHIGAN AVE., 31 FEET SOUTH OF THE CENTER LINE OF

ME0042'CHIPPEWA AVE., 25 FEET WEST OF THE CENTER LINE OF A DRIVEWAY,

ME0042'20 FEET NORTHWEST OF THE WEST BRICK GATEPOST, 10 FEET NORTH OF

ME0042'AN IRON FENCE, 2.5 FEET WEST OF POWER POLE J 327/178, ABOUT 1

ME0042'FOOT HIGHER THAN CHIPPEWA AVE., AND IN THE TOP OF A CONCRETE

ME0042'POST PROJECTING ABOUT 4 INCHES.

ME0042

ME0042 STATION RECOVERY (1990)

ME0042

ME0042'RECOVERY NOTE BY US POWER SQUADRON 1990 (PSH)

ME0042'MARK NOT FOUND.

ME0042

ME0042 STATION RECOVERY (1997)

ME0042

ME0042'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

ME0042'THE STATION IS LOCATED ABOUT 0.3 MILES (0.5 KM) NORTH OF THE SOUTH

ME0042'CITY LIMIT SIGN OF SOUTH BEND. TO REACH THIS STATION FROM THE SOUTH,

ME0042'GO NORTH FOR 0.9 MILES (1.4 KM) FROM U.S. HIGHWAY 20 WHERE U.S.

ME0042'HIGHWAY 31 JOINS ON MICHIGAN STREET (WHERE OLD U.S. HIGHWAY 31

ME0042'DIVIDES). FROM THE NORTH, GO SOUTH FROM KEY BANK 2.6 MILES (4.2 KM)

ME0042'TO THE INTERSECTION OF MICHIGAN STREET AND CHIPPEWA AVENUE IN A

ME0042'TRIANGULAR SHAPED PAVED ISLAND, IN THE SOUTHWEST QUADRANT OF THE

ME0042'INTERSECTION. CONTACT IS JIM ARNOLD, INDOT, LAPORTE DISTRICT, PO BOX

ME0042'429, LAPORTE IN 46350, PHONE 219-362-3520. LOCATED AT AZIMUTH 118

ME0042'DEGREES AND 13.19 METERS (43.27 FT) TO THE NORTHWEST CORNER OF A

ME0042'CONCRETE PEDESTRIAN CROSSING SIGNAL BASE, AZIMUTH 260 DEGREES AND 6.58

ME0042'METERS (21.59 FT) TO A POWER POLE 327.178, AZIMUTH 195 DEGREES AND

ME0042'6.32 METERS (20.73 FT) TO THE NORTH EDGE OF A STORM INLET, AND AZIMUTH

ME0042'360 DEGREES AND 1.85 METERS (6.07 FT) TO THE BACK OF CURB OF SOUTH

ME0042'SIDE CHIPPEWA AVENUE.

ME0042

ME0042 STATION RECOVERY (2001)

ME0042

ME0042'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2001 (ARL)

ME0042'RECOVERED AS DESCRIBED.

ME0042'

ME0042'

ME0042'

ME0042'

ME0042'

ME0042'

ME0042

ME0042

STATION RECOVERY (2006)

ME0042

ME0042'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2006 (DAB)

ME0042'MARK IS NOW 0.2FT BELOW GRADE AND IS 1FT NORTH OF ORANGE CARSONITE

ME0042'WITNESS POST.

ME0042

ME0042

STATION RECOVERY (2007)

ME0042

ME0042'RECOVERY NOTE BY LAWSON-FISHER ASSOCIATES PC 2007 (SST)

ME0042'RECOVERED IN GOOD CONDITION.

ME0042

ME0042

STATION RECOVERY (2009)

ME0042

ME0042'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2009 (MRY)

ME0042'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

ME0261 *****

ME0261 FBN - This is a Federal Base Network Control Station.

ME0261 DESIGNATION - MARSHALL

ME0261 PID - ME0261

ME0261 STATE/COUNTY- IN/MARSHALL

ME0261 USGS QUAD - PLYMOUTH (1980)

ME0261

ME0261 *CURRENT SURVEY CONTROL

ME0261

ME0261* NAD 83(2007)- 41 19 55.54867(N) 086 16 04.38610(W) ADJUSTED

ME0261* NAVD 88 - 254.698 (meters) 835.62 (feet) ADJUSTED

ME0261

ME0261 EPOCH DATE - 2002.00

ME0261 X - 312,210.743 (meters) COMP

ME0261 Y - -4,786,307.834 (meters) COMP

ME0261 Z - 4,190,333.800 (meters) COMP

ME0261 LAPLACE CORR- 0.21 (seconds) DEFLEC09

ME0261 ELLIP HEIGHT- 220.907 (meters) (02/10/07) ADJUSTED

ME0261 GEOID HEIGHT- -33.80 (meters) GEOID09

ME0261 DYNAMIC HT - 254.591 (meters) 835.27 (feet) COMP

ME0261

ME0261 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

ME0261 Type PID Designation North East Ellip

ME0261 -----

ME0261 NETWORK ME0261 MARSHALL 0.53 0.39 1.22

ME0261 -----

ME0261 MODELED GRAV- 980,195.3 (mgal) NAVD 88

ME0261

ME0261 VERT ORDER - FIRST CLASS I

ME0261

ME0261.The horizontal coordinates were established by GPS observations

ME0261.and adjusted by the National Geodetic Survey in February 2007.

ME0261

ME0261.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

ME0261.See National Readjustment for more information.

ME0261.The horizontal coordinates are valid at the epoch date displayed above.

ME0261.The epoch date for horizontal control is a decimal equivalence

ME0261.of Year/Month/Day.

ME0261

ME0261.The orthometric height was determined by differential leveling and

ME0261.adjusted in June 1991.

ME0261

ME0261.The X, Y, and Z were computed from the position and the ellipsoidal ht.

ME0261

ME0261.The Laplace correction was computed from DEFLEC09 derived deflections.

ME0261

ME0261.The ellipsoidal height was determined by GPS observations

ME0261.and is referenced to NAD 83.

ME0261

ME0261.The geoid height was determined by GEOID09.

ME0261

ME0261.The dynamic height is computed by dividing the NAVD 88

ME0261.geopotential number by the normal gravity value computed on the

ME0261.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

ME0261.degrees latitude (g = 980.6199 gals.).

ME0261

ME0261.The modeled gravity was interpolated from observed gravity values.

ME0261

ME0261;	North	East	Units	Scale	Factor	Converg.
ME0261;SPC IN E	- 675,613.073	49,672.685	MT	0.99999783	-0 23 49.4	
ME0261;SPC IN E	- 2,216,573.89	162,967.80	sFT	0.99999783	-0 23 49.4	
ME0261;UTM 16	- 4,575,882.525	561,262.122	MT	0.99964619	+0 29 00.7	

ME0261

ME0261! - Elev Factor x Scale Factor = Combined Factor

ME0261!SPC IN E - 0.99996535 x 0.99999783 = 0.99996318

ME0261!UTM 16 - 0.99996535 x 0.99964619 = 0.99961155

ME0261

ME0261:	Primary Azimuth Mark	Grid Az
ME0261:SPC IN E	- MARSHALL AZ MK	080 12 47.0
ME0261:UTM 16	- MARSHALL AZ MK	079 19 56.9

ME0261

ME0261	PID	Reference Object	Distance	Geod. Az
ME0261				dddmmss.s
ME0261	ME0260	MARSHALL RM 1	25.820 METERS	07553
ME0261	ME0259	MARSHALL AZ MK		0794857.6
ME0261	ME0262	MARSHALL RM 2	24.345 METERS	16802
ME0261	ME2296	ARGOS MUNICIPAL TANK	APPROX.10.8 KM	1703949.9
ME0261	ME2336	PLYMOUTH N IND PUB SERVICE RAD	APPROX. 4.0 KM	2793942.0
ME0261	ME2332	PLYMOUTH MUN WATER WORKS STK	APPROX. 3.5 KM	2815208.2
ME0261	ME2335	PLYMOUTH CO CTHSE CLOCK TOWER	APPROX. 3.9 KM	2894329.7

ME0261

ME0261 SUPERSEDED SURVEY CONTROL

ME0261

ME0261	NAD 83(1997)-	41 19 55.54845(N)	086 16 04.38600(W)	AD() B
ME0261	ELLIP H (04/10/98)	220.894 (m)		GP() 4 1
ME0261	NAD 83(1986)-	41 19 55.55332(N)	086 16 04.39384(W)	AD() 2
ME0261	NAD 27	- 41 19 55.39690(N)	086 16 04.37490(W)	AD() 2

4/28/2011

DATASHEETS

ME0261	NAVD 88 (04/10/98)	254.70	(m)	835.6	(f) LEVELING	3
ME0261	NGVD 29 (01/19/93)	254.820	(m)	836.02	(f) ADJUSTED	1 1

ME0261

ME0261.Superseded values are not recommended for survey control.

ME0261.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

ME0261.See file dsdata.txt to determine how the superseded data were derived.

ME0261

ME0261_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL6126275882(NAD 83)

ME0261_MARKER: DS = TRIANGULATION STATION DISK

ME0261_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

ME0261_SP_SET: CONCRETE POST

ME0261_STAMPING: MARSHALL 1952

ME0261_MARK LOGO: CGS

ME0261_PROJECTION: RECESSED 2 CENTIMETERS

ME0261_MAGNETIC: O = OTHER; SEE DESCRIPTION

ME0261_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

ME0261+STABILITY: SURFACE MOTION

ME0261_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

ME0261+SATELLITE: SATELLITE OBSERVATIONS - February 17, 2006

ME0261

ME0261	HISTORY	- Date	Condition	Report By
ME0261	HISTORY	- 1952	MONUMENTED	CGS
ME0261	HISTORY	- 1958	GOOD	CGS
ME0261	HISTORY	- 1968	GOOD	NGS
ME0261	HISTORY	- 1975	GOOD	NGS
ME0261	HISTORY	- 1983	GOOD	LOCSUR
ME0261	HISTORY	- 1984	GOOD	INDNR
ME0261	HISTORY	- 1989	GOOD	USPSQD
ME0261	HISTORY	- 1990	GOOD	USPSQD
ME0261	HISTORY	- 19920909	GOOD	NGS
ME0261	HISTORY	- 19970807	GOOD	SEC
ME0261	HISTORY	- 19980725	GOOD	WOOLPT
ME0261	HISTORY	- 20030616	GOOD	INDOT
ME0261	HISTORY	- 20060217	GOOD	EVANS

ME0261

ME0261 STATION DESCRIPTION

ME0261

ME0261'DESCRIBED BY COAST AND GEODETIC SURVEY 1952 (LWS)

ME0261'STATION IS LOCATED ON THE GROUNDS OF THE MARSHALL COUNTY HOME ON THE
ME0261'NORTH SIDE OF U.S. HIGHWAY 30

ME0261'ABOUT 2 MILES EAST OF PLYMOUTH. IT IS 148 FEET SOUTH OF THE
ME0261'SOUTHEAST CORNER OF THE COUNTY HOME

ME0261'BARN, 111 FEET NORTH OF THE CENTER OF THE HIGHWAY, 50 FEET

ME0261'NORTH OF A TELEPHONE POLE AND 34 FEET WEST

ME0261'OF THE CENTER OF A GRAVEL DRIVEWAY. THE

ME0261'MARK IS FLUSH AND THE DISK IS STAMPED MARSHALL 1952.

ME0261'

ME0261'REFERENCE MARK NO. 1 IS 51 FEET EAST OF THE CENTER OF THE DRIVEWAY

ME0261'AND 1 FOOT SOUTH OF A

ME0261'FENCE. THE MARK PROJECTS ABOUT 8 INCHES AND THE DISK IS STAMPED

ME0261'MARSHALL NO 1 1952.

ME0261'

ME0261'REFERENCE MARK NO. 2 IS 36 FEET NORTH OF THE CENTER OF THE HIGHWAY.

ME0261'THE DISK IS SET FLUSH IN A

ME0261'DRILL HOLE IN THE WEST END OF A CONCRETE ABUTMENT OF A CULVERT AND IT

ME0261'IS STAMPED MARSHALL NO 2 1952.

ME0261'

4/28/2011

DATASHEETS

ME0261'AZIMUTH MARK IS 19 FEET WEST OF THE CENTER OF A GRAVEL ROAD, 2 FEET
ME0261'SOUTH OF A WHITE WITNESS
ME0261'POST, 1 FOOT NORTH OF A POWER POLE AND 1 FOOT EAST OF A FENCE. THE
ME0261'MARK PROJECTS ABOUT 6 INCHES AND
ME0261'THE DISK IS STAMPED MARSHALL 1952.

ME0261'

ME0261'TO REACH THE AZIMUTH MARK FROM THE STATION, GO EAST ON HIGHWAY 30 FOR
ME0261'0.4 MILE TO A GRAVEL
ME0261'CROSSROAD. TURN LEFT ON GRAVEL ROAD AND GO NORTH FOR 0.15 MILE TO
ME0261'THE MARK ON THE LEFT AS
ME0261'DESCRIBED.

ME0261'

ME0261'HEIGHT OF LIGHT ABOVE STATION MARK 34 METERS

ME0261

ME0261

STATION RECOVERY (1958)

ME0261

ME0261'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1958 (RRG)
ME0261'THE STATION, REFERENCE MARKS AND THE AZIMUTH MARK WERE ALL RECOVERED
ME0261'AND IN GOOD
ME0261'CONDITION. THE DESCRIPTION
ME0261'IS ADEQUATE.

ME0261

ME0261

STATION RECOVERY (1968)

ME0261

ME0261'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1968

ME0261'2.4 MI E FROM PLYMOUTH.

ME0261'ABOUT 2.4 MILES EAST ALONG THE PENN CENTRAL RAILROAD FROM THE
ME0261'STATION AT PLYMOUTH, ABOUT 75 YARDS NORTH OF THE TRACK, ON THE
ME0261'GROUNDS OF THE MARSHALL COUNTY HOME, 147 FEET SOUTH OF THE
ME0261'SOUTHEAST CORNER OF A BARN, 108 FEET NORTH OF THE CENTER LINE OF
ME0261'BUSINESS ROUTE U.S. HIGHWAY 30, 33 FEET SOUTHWEST OF THE CENTER
ME0261'OF THE JUNCTION OF A DRIVE TO HOME AND BARN, ABOUT LEVEL WITH THE
ME0261'HIGHWAY, 1 FOOT BELOW THE LEVEL OF THE DRIVEWAY AND SET IN THE
ME0261'TOP OF A CONCRETE POST 1 INCH UNDERGROUND. IN SECTION 11, R 2 E,
ME0261'T 33 N.

ME0261

ME0261

STATION RECOVERY (1975)

ME0261

ME0261'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1975 (CLN)
ME0261'STATION MARK, REFERENCE MARKS 1,2 AND THE AZIMUTH MARK WERE RECOVERED
ME0261'AS DESCRIBED IN 1952. THE DISTANCE TO REFERENCE MARKS 1 AND 2 WERE
ME0261'VERIFIED. THE DIRECTION TO REFERENCE MARK 1 CHECKED AND THE
ME0261'DIRECTION TO REFERENCE MARK 2 WAS FOUND TO BE LESS BY 1 MINUTE 8
ME0261'SECONDS.

ME0261'

ME0261'THE DESCRIPTION IS ADEQUATE WITH ONE EXCEPTION. THE U.S. HIGHWAY 30
ME0261'IS NOW OLD HIGHWAY 30 AS THE NEW HIGHWAY IS A FOUR LANE HIGHWAY.

ME0261'

ME0261'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--AT THE EAST EDGE OF
ME0261'PLYMOUTH.

ME0261

ME0261

STATION RECOVERY (1983)

ME0261

ME0261'RECOVERY NOTE BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1983

ME0261'THE MARK IS SECURELY EMBEDDED IN THE STONE WALL BUILT TO SUPPORT THE
ME0261'RAILROAD PSS OVER WILBUR BLVD. IT IS OF WHITE METAL ABOUT FIVE FEET
ME0261'ABOVE STREET LEVEL SET IN THE VERTICAL WALL AT ABOUT TWENTY-THREE

4/28/2011

DATASHEETS

ME0261 'METERS SOUTHEAST OF THE SOUTH EAST CORNER OF WILBUR AVE. AND GREENKIL
ME0261 'AVE. IN THE CITY OF KINGSTON, NY.

ME0261

ME0261 STATION RECOVERY (1984)

ME0261

ME0261 'RECOVERY NOTE BY IN DEPT OF NAT RES 1984

ME0261 'MARK IS ON OLD US 30, THE COUNTY HOME IS NOW THE SHADY REST HOME.

ME0261

ME0261 STATION RECOVERY (1989)

ME0261

ME0261 'RECOVERY NOTE BY US POWER SQUADRON 1989 (TCR)

ME0261 'RECOVERED IN GOOD CONDITION.

ME0261

ME0261 STATION RECOVERY (1990)

ME0261

ME0261 'RECOVERY NOTE BY US POWER SQUADRON 1990 (TPM)

ME0261 'RECOVERED IN GOOD CONDITION.

ME0261

ME0261 STATION RECOVERY (1992)

ME0261

ME0261 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992

ME0261 '3.2 KM (2.00 MI) SOUTHEASTERLY ALONG THE CONRAIL RAILROAD FROM THE

ME0261 'JUNCTION OF STATE HIGHWAY 17 (MICHIGAN STREET) IN PLYMOUTH, 60.1 M

ME0261 '(197.2 FT) NORTH OF THE NEAR RAIL, 40.1 M (131.6 FT) SOUTH OF THE

ME0261 'SOUTHEAST CORNER OF THE SHADY REST COUNTY HOME, 33.0 M (108.3 FT)

ME0261 'NORTH OF THE CENTERLINE OF OLD HIGHWAY 30, 25.9 M (85.0 FT)

ME0261 'WEST-SOUTHWEST OF REFERENCE MARK 1, 14.8 M (48.6 FT) NORTH OF

ME0261 'REFERENCE MARK 3, 10.1 M (33.1 FT) WEST OF THE CENTER OF A DRIVEWAY

ME0261 'LEADING TO A BARN, 8.1 M (26.6 FT) NORTH OF A UTILITY LIGHT POLE, 0.8

ME0261 'M (2.6 FT) BELOW THE LEVEL OF THE HIGHWAY, AND THE MONUMENT IS

ME0261 'RECESSED 0.02 M (0.07 FT) BELOW THE GROUND SURFACE.

ME0261

ME0261 STATION RECOVERY (1997)

ME0261

ME0261 'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

ME0261 'THE STATION IS 2 MILES (3.2 KM) EAST OF PLYMOUTH. TO REACH THE

ME0261 'STATION FROM THE INTERSECTION OF U.S. HIGHWAYS 30 AND 31, GO SOUTH ON

ME0261 'U.S. HIGHWAY 31 FOR 0.5 MILES (0.8 KM) TO CROSSROAD, TURN LEFT AND GO

ME0261 'EAST 1.5 MILES (2.4 KM) TO THE INTERSECTION OF OLD HIGHWAY 30, TURN

ME0261 'RIGHT AND GO WEST 0.5 MILES (0.8 KM) TO THE SHADY REST HOME AND

ME0261 'STATION ON RIGHT, ON THE PROPERTY OF SHADY REST HOME, 10924 LINCOLN

ME0261 'WAY, RICH ULRICH, SUPERINTENDENT, PHONE 219-936-2635. THE STATION IS

ME0261 'SET IN A ROUND CONCRETE MONUMENT. IT IS 33.01 METERS (108.30 FT)

ME0261 'NORTH OF THE CENTERLINE OF OLD HIGHWAY 30, 25.90 METERS (84.97 FT)

ME0261 'WEST OF THE CENTERLINE OF DRIVEWAY LEADING TO BARN, 25.90 METERS

ME0261 '(84.97 FT) SOUTH OF THE SOUTHEAST CORNER OF THE SHADY REST HOME AND

ME0261 'RECESSED 2 CM BELOW GROUND.

ME0261

ME0261 STATION RECOVERY (1998)

ME0261

ME0261 'RECOVERY NOTE BY WOOLPERT CONSULTANTS 1998 (ARL)

ME0261 'RECOVERED AS DESCRIBED. WOOLPERT LLP 1998 (ARL).

ME0261

ME0261 STATION RECOVERY (2003)

ME0261

ME0261 'RECOVERY NOTE BY INDIANA DEPARTMENT OF TRANSPORTATION 2003 (DLF)

ME0261 'THE STATION IS LOCATED IN CENTER TOWNSHIP, APPROXIMATELY 800 FT EAST

4/28/2011

DATASHEETS

ME0261'OF THE NORTHWEST CORNER OF SECTION 11, T 33 N, R 2 E, ABOUT 23.2 MI
ME0261'SOUTH OF SOUTH BEND, 22.3 MI WEST-NORTHWEST OF WARSAW, 18.6 MI NORTH
ME0261'OF ROCHESTER, 2.0 MI EAST OF PLYMOUTH AND ON THE NORTH SIDE OF OLD US
ME0261'HIGHWAY 30. OWNERSHIP--SHADY REST HOME, 10924 LINCOLN WAY, PLYMOUTH,
ME0261'IN, MR. LYNN REYNOLDS, ADMINISTRATOR, PHONE 574-936-2635.

ME0261'
ME0261'TO REACH THE STATION FROM THE INTERSECTION OF US HIGHWAYS 30 AND 31
ME0261'NEAR PLYMOUTH, GO SOUTH ON HIGHWAY 31 FOR 0.5 MI TO A CROSSROAD.
ME0261'TURN LEFT AND GO EAST AND SOUTH FOR 1.5 MI TO THE INTERSECTION OF OLD
ME0261'US HIGHWAY 30. TURN RIGHT AND GO WEST FOR 0.3 MI TO THE EAST
ME0261'ENTRANCE TO THE SHADY REST HOME AND THE STATION ON THE RIGHT.

ME0261'
ME0261'THE STATION IS RECESSED 2 CM BELOW GROUND. LOCATED 111.0 FT NORTH OF
ME0261'THE CENTER OF OLD HIGHWAY 30, 147.3 FT SOUTH OF THE SOUTHEAST CORNER
ME0261'OF A BARN, 31.2 FT WEST OF THE CENTER OF A PAVED DRIVEWAY LEADING TO
ME0261'THE BARN AND REST HOME, 55.4 FT SOUTH-SOUTHEAST OF A LIGHT POLE AND
ME0261'SURROUNDED BY FOUR 4X4 INCH DECORATIVE WHITE POSTS.

ME0261
ME0261 STATION RECOVERY (2006)

ME0261
ME0261 RECOVERY NOTE BY DAVID EVANS + ASSOC 2006 (CF)
ME0261 RECOVERED AS DESCRIBED

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

ME0445 *****

ME0445 DESIGNATION - H 177
ME0445 PID - ME0445
ME0445 STATE/COUNTY- IN/FULTON
ME0445 USGS QUAD - AKRON (1994)

ME0445 *CURRENT SURVEY CONTROL

ME0445*	NAD 83(1986)-	41 02 50.	(N)	086 05 51.	(W)	SCALED
ME0445*	NAVD 88	- 250.162	(meters)	820.74	(feet)	ADJUSTED
ME0445	GEOID HEIGHT-	-33.74	(meters)			GEOID09
ME0445	DYNAMIC HT -	250.051	(meters)	820.38	(feet)	COMP
ME0445	MODELED GRAV-	980,173.5	(mgal)			NAVD 88

ME0445 VERT ORDER - SECOND CLASS 0

ME0445.The horizontal coordinates were scaled from a topographic map and have
ME0445.an estimated accuracy of +/- 6 seconds.

ME0445.The orthometric height was determined by differential leveling and
ME0445.adjusted in June 1991.

ME0445.The geoid height was determined by GEOID09.

ME0445.The dynamic height is computed by dividing the NAVD 88
ME0445.geopotential number by the normal gravity value computed on the
ME0445.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
ME0445.degrees latitude (g = 980.6199 gals.).

ME0445.The modeled gravity was interpolated from observed gravity values.

ME0445;	North	East	Units	Estimated Accuracy
ME0445;SPC IN E	- 643,890.	63,780.	MT	(+/- 180 meters Scaled)

ME0445

ME0445

SUPERSEDED SURVEY CONTROL

ME0445

ME0445 NGVD 29 (??/??/92) 250.284 (m) 821.14 (f) ADJ UNCH 2 0

ME0445

ME0445.Superseded values are not recommended for survey control.

ME0445.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

ME0445.See file dsdata.txt to determine how the superseded data were derived.

ME0445

ME0445_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL758443(NAD 83)

ME0445_MARKER: DB = BENCH MARK DISK

ME0445_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

ME0445_SP_SET: SET IN TOP OF CONCRETE MONUMENT

ME0445_STAMPING: H 177 1946

ME0445_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

ME0445+STABILITY: SURFACE MOTION

ME0445

ME0445 HISTORY - Date Condition Report By

ME0445 HISTORY - 1946 MONUMENTED CGS

ME0445 HISTORY - 1990 GOOD USPSQD

ME0445

ME0445 STATION DESCRIPTION

ME0445

ME0445'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

ME0445'1.6 MI E FROM ATHENS.

ME0445'ABOUT 1.6 MILE EAST ALONG STATE HIGHWAY 14 FROM THE POST OFFICE

ME0445'AT ATHENS, ABOUT 0.1 MILE WEST OF THE INTERSECTION WITH A

ME0445'NORTH-SOUTH GRAVEL ROAD, AT A 2-STORY IMITATION BRICK FARM HOUSE

ME0445'ON THE SOUTH SIDE OF THE HIGHWAY, AT THE NORTHWEST CORNER OF THE

ME0445'BARNYARD FENCE, 79 FEET NORTHEAST OF THE NORTHEAST CORNER OF THE

ME0445'GARAGE, 26 FEET NORTH OF THE NORTHWEST CORNER OF THE BARN, 58

ME0445'FEET EAST OF THE CENTER LINE OF THE DRIVEWAY, 3 FEET SOUTHWEST

ME0445'OF THE BARN YARD FENCE CORNER, ABOUT 4 FEET ABOVE HIGHWAY LEVEL

ME0445'AND SET IN THE TOP OF A CONCRETE POST PROJECTING ABOUT 6 INCHES.

ME0445

ME0445 STATION RECOVERY (1990)

ME0445

ME0445'RECOVERY NOTE BY US POWER SQUADRON 1990 (JBB)

ME0445'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

ME0522 *****

ME0522 CBN - This is a Cooperative Base Network Control Station.

ME0522 DESIGNATION - D 335

ME0522 PID - ME0522

ME0522 STATE/COUNTY- IN/STARKE

ME0522 USGS QUAD - HAMLET (1977)

ME0522

ME0522 *CURRENT SURVEY CONTROL

ME0522

ME0522* NAD 83(2007)- 41 23 09.54913(N) 086 36 31.16414(W) ADJUSTED

ME0522* NAVD 88 - 207.902 (meters) 682.09 (feet) ADJUSTED

ME0522

ME0522 EPOCH DATE - 2002.00

ME0522 X - 283,502.372 (meters) COMP

ME0522 Y - -4,784,097.056 (meters) COMP

ME0522 Z - 4,194,795.197 (meters) COMP

ME0522 LAPLACE CORR- 0.62 (seconds) DEFLEC09

4/28/2011

DATASHEETS

ME0522 ELLIP HEIGHT- 174.060 (meters) (02/10/07) ADJUSTED
 ME0522 GEOID HEIGHT- -33.84 (meters) GEOID09
 ME0522 DYNAMIC HT - 207.818 (meters) 681.82 (feet) COMP

ME0522

ME0522 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

ME0522	Type	PID	Designation	North	East	Ellip
ME0522	-----	-----	-----	-----	-----	-----
ME0522	NETWORK	ME0522	D 335	0.80	0.55	1.90
ME0522	-----	-----	-----	-----	-----	-----

ME0522

ME0522 NETWORK ME0522 D 335 0.80 0.55 1.90

ME0522

ME0522 MODELED GRAV- 980,214.7 (mgal) NAVD 88

ME0522

ME0522 VERT ORDER - FIRST CLASS I

ME0522

ME0522.The horizontal coordinates were established by GPS observations

ME0522.and adjusted by the National Geodetic Survey in February 2007.

ME0522

ME0522.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

ME0522.See National Readjustment for more information.

ME0522.The horizontal coordinates are valid at the epoch date displayed above.

ME0522.The epoch date for horizontal control is a decimal equivalence

ME0522.of Year/Month/Day.

ME0522

ME0522.The orthometric height was determined by differential leveling and

ME0522.adjusted in April 1995.

ME0522

ME0522.The X, Y, and Z were computed from the position and the ellipsoidal ht.

ME0522

ME0522.The Laplace correction was computed from DEFLEC09 derived deflections.

ME0522

ME0522.The ellipsoidal height was determined by GPS observations

ME0522.and is referenced to NAD 83.

ME0522

ME0522.The geoid height was determined by GEOID09.

ME0522

ME0522.The dynamic height is computed by dividing the NAVD 88

ME0522.geopotential number by the normal gravity value computed on the

ME0522.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

ME0522.degrees latitude (g = 980.6199 gals.).

ME0522

ME0522.The modeled gravity was interpolated from observed gravity values.

ME0522

ME0522;		North	East	Units	Scale	Factor	Converg.
ME0522;SPC	IN W	- 681,532.177	939,701.849	MT	0.99998606	+0 18	49.8
ME0522;SPC	IN W	- 2,235,993.48	3,083,005.15	sFT	0.99998606	+0 18	49.8
ME0522;UTM	16	- 4,581,680.472	532,719.850	MT	0.99961318	+0 15	31.4

ME0522

ME0522! - Elev Factor x Scale Factor = Combined Factor

ME0522!SPC IN W - 0.99997270 x 0.99998606 = 0.99995876

ME0522!UTM 16 - 0.99997270 x 0.99961318 = 0.99958589

ME0522

ME0522

SUPERSEDED SURVEY CONTROL

ME0522

ME0522 NAD 83(1997)- 41 23 09.54903(N) 086 36 31.16402(W) AD() B

ME0522 ELLIP H (04/10/98) 174.079 (m) GP() 4 1

ME0522 NAVD 88 (04/10/98) 207.90 (m) 682.1 (f) LEVELING 3

ME0522 NAVD 88 (06/15/91) 207.900 (m) 682.09 (f) UNKNOWN 1 1

ME0522 NGVD 29 (01/19/93) 208.000 (m) 682.41 (f) ADJUSTED 1 1

ME0522

ME0522.Superseded values are not recommended for survey control.

ME0522.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

ME0522.See file dsdata.txt to determine how the superseded data were derived.

ME0522

ME0522_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL3271981680(NAD 83)

ME0522_MARKER: DB = BENCH MARK DISK

ME0522_SETTING: 46 = COPPER-CLAD STEEL ROD W/O SLEEVE (10 FT.+)

ME0522_SP_SET: COPPER-CLAD STEEL ROD

ME0522_STAMPING: D 335 1968

ME0522_MARK LOGO: CGS

ME0522_PROJECTION: FLUSH

ME0522_MAGNETIC: N = NO MAGNETIC MATERIAL

ME0522_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ME0522_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

ME0522+SATELLITE: SATELLITE OBSERVATIONS - November 03, 2009

ME0522_ROD/PIPE-DEPTH: 14.6 meters

ME0522

ME0522	HISTORY	- Date	Condition	Report By
ME0522	HISTORY	- 1968	MONUMENTED	CGS
ME0522	HISTORY	- 1988	GOOD	USPSQD
ME0522	HISTORY	- 19920907	GOOD	NGS
ME0522	HISTORY	- 19970805	GOOD	SEC
ME0522	HISTORY	- 19990623	GOOD	USPSQD
ME0522	HISTORY	- 20060927	GOOD	WOOLPT
ME0522	HISTORY	- 20091103	GOOD	WOOLPT

ME0522

ME0522

STATION DESCRIPTION

ME0522

ME0522'DESCRIBED BY COAST AND GEODETIC SURVEY 1968

ME0522'1.4 MI W FROM HAMLET.

ME0522'ABOUT 1.4 MILES WEST ALONG THE PENN CENTRAL RAILROAD FROM THE
 ME0522'CROSSING OF STARKE STREET AT HAMLET, ABOUT 0.5 MILE EAST OF
 ME0522'MILEPOST 400, ABOUT 0.4 MILE WEST OF THE CROSSING OF COUNTY ROAD
 ME0522'500 E., 50.1 FEET NORTH OF THE NORTH RAIL OF THE WESTBOUND TRACK,
 ME0522'27 1/2 FEET SOUTH OF THE CENTER LINE OF OLD U.S. HIGHWAY 30,
 ME0522'3 1/2 FEET WEST OF POWER LINE POLE 286 - 900, IN LINE WITH A ROW
 ME0522'OF POLES, 0.5 FOOT NORTHWEST OF A METAL WITNESS POST, 5 FEET
 ME0522'BELOW THE LEVEL OF THE TRACK AND IS A DISK ON THE TOP OF A COPPER
 ME0522'COATED STEEL ROD PROJECTING 2 INCHES ABOVE THE LEVEL OF THE
 ME0522'GROUND AND PROTECTED BY A 6 INCH METAL PIPE WHICH PROJECTS 4
 ME0522'INCHES ABOVE THE LEVEL OF THE GROUND. THE ROD WAS DRIVEN TO A
 ME0522'DEPTH OF 48 FEET. IN SECTION 23, R 2 W, T 34 N.

ME0522

ME0522

STATION RECOVERY (1988)

ME0522

ME0522'RECOVERY NOTE BY US POWER SQUADRON 1988 (CM)

ME0522'RECOVERED IN GOOD CONDITION.

ME0522

ME0522

STATION RECOVERY (1992)

ME0522

ME0522'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992

ME0522'0.1 KM (0.05 MI) NORTHERLY ALONG STARKE STREET FROM THE POST OFFICE IN
 ME0522'HAMLET, THENCE 2.3 KM (1.40 MI) WESTERLY ALONG THE CONRAIL RAILROAD,
 ME0522'19.4 M (63.6 FT) NORTH OF THE NEAR RAIL, 8.6 M (28.2 FT) SOUTH OF THE
 ME0522'CENTER OF OLD HIGHWAY 30, 1.1 M (3.6 FT) WEST OF UTILITY POLE NUMBER
 ME0522'785-911, 0.4 M (1.3 FT) EAST OF A WITNESS POST, AND 0.3 M (1.0 FT)

4/28/2011

DATASHEETS

ME0522'BELOW THE LEVEL OF THE HIGHWAY. NOTE--THE DISK IS ENCASED IN A 5-INCH
ME0522'METAL PIPE AND IS FLUSH WITH THE GROUND SURFACE.

ME0522

ME0522

STATION RECOVERY (1997)

ME0522

ME0522'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

ME0522'ABOUT 1.4 MILES (2.3 KM) WEST OF HAMLET FROM THE INTERSECTION OF
ME0522'STARKE STREET AND OLD U.S. ROUTE 30 (PLYMOUTH STREET), PARALLELING THE
ME0522'NORFOLK SOUTHERN TRACKS, TO THE STATION ON THE SOUTH SIDE OF ROAD.

ME0522'THE STATION IS A DISK SET ATOP A COPPER-CLAD STEEL ROD PROJECTING 2
ME0522'INCHES ABOVE THE GROUND INSIDE CASING AND ENCIRCLED BY A 6 INCH METAL
ME0522'CASING FLUSH WITH SURROUNDING GROUND. LOCATED 19.35 METERS (63.48 FT)
ME0522'NORTH OF NORTH RAIL OF TRACKS, 8.47 METERS (27.79 FT) SOUTH OF THE
ME0522'CENTERLINE OF OLD U.S. ROUTE 30 (PLYMOUTH STREET) AND 1.11 METERS
ME0522'(3.64 FT) WEST OF POWER POLE 785911.

ME0522

ME0522

STATION RECOVERY (1999)

ME0522

ME0522'RECOVERY NOTE BY US POWER SQUADRON 1999

ME0522'RECOVERED IN GOOD CONDITION.

ME0522

ME0522

STATION RECOVERY (2006)

ME0522

ME0522'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2006 (CTS)

ME0522'THIS STATION WAS RECOVERED AS DESCRIBED AND FOUND IN GOOD CONDITION.

ME0522

ME0522

STATION RECOVERY (2009)

ME0522

ME0522'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2009 (BJM)

ME0522'THIS STATION WAS RECOVERED AS DESCRIBED AND FOUND IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

ME0756 *****

ME0756 DESIGNATION - G 131

ME0756 PID - ME0756

ME0756 STATE/COUNTY- IN/PULASKI

ME0756 USGS QUAD - WINAMAC (1980)

ME0756

ME0756

*CURRENT SURVEY CONTROL

ME0756

ME0756* NAD 83(1986)- 41 00 42. (N) 086 31 49. (W) SCALED

ME0756* NAVD 88 - 220.456 (meters) 723.28 (feet) ADJUSTED

ME0756

ME0756 GEOID HEIGHT- -33.67 (meters) GEOID09

ME0756 DYNAMIC HT - 220.360 (meters) 722.96 (feet) COMP

ME0756 MODELED GRAV- 980,183.7 (mgal) NAVD 88

ME0756

ME0756 VERT ORDER - SECOND CLASS 0

ME0756

ME0756.The horizontal coordinates were scaled from a topographic map and have
ME0756.an estimated accuracy of +/- 6 seconds.

ME0756

ME0756.The orthometric height was determined by differential leveling and
ME0756.adjusted in June 1991.

ME0756

ME0756.The geoid height was determined by GEOID09.

ME0756

ME0756.The dynamic height is computed by dividing the NAVD 88

ME0756.geopotential number by the normal gravity value computed on the
 ME0756.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 ME0756.degrees latitude (g = 980.6199 gals.).

ME0756

ME0756.The modeled gravity was interpolated from observed gravity values.

ME0756

ME0756;	North	East	Units	Estimated Accuracy
ME0756;SPC IN W	- 640,000.	946,520.	MT	(+/- 180 meters Scaled)

ME0756

ME0756 SUPERSEDED SURVEY CONTROL

ME0756

ME0756	NGVD 29 (??/??/92)	220.573 (m)	723.66 (f)	ADJ UNCH	2 0
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ME0756

ME0756.Superseded values are not recommended for survey control.

ME0756.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

ME0756.See file dsdata.txt to determine how the superseded data were derived.

ME0756

ME0756_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEL394401(NAD 83)

ME0756_MARKER: DB = BENCH MARK DISK

ME0756_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

ME0756_SP_SET: SET IN TOP OF CONCRETE MONUMENT

ME0756_STAMPING: G 131 1946

ME0756_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

ME0756+STABILITY: SURFACE MOTION

ME0756

ME0756	HISTORY	- Date	Condition	Report By
ME0756	HISTORY	- 1946	MONUMENTED	CGS

ME0756	HISTORY	- 1946	MONUMENTED	CGS
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ME0756

ME0756 STATION DESCRIPTION

ME0756

ME0756'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

ME0756'7 MI W FROM KEWANNA.

ME0756'ABOUT 5.55 MILES WEST ALONG A PAVED ROAD FROM THE PENNSYLVANIA

ME0756'RAILROAD STATION AT KEWANNA, THENCE 0.6 MILE SOUTH AND 0.9 MILE

ME0756'WEST ALONG GRAVEL ROADS, 78 FEET NORTH OF THE NORTHWEST CORNER

ME0756'OF A BARN, 22 FEET SOUTH OF THE CENTER LINE OF THE ROAD, 66 FEET

ME0756'WEST OF THE CENTER LINE OF A DRIVEWAY LEADING TO THE BARN, 39

ME0756'FEET SOUTHWEST OF AN 8-INCH MAPLE TREE, 75 FEET SOUTHWEST AND

ME0756'ACROSS THE ROAD FROM THE CENTER OF A DRIVEWAY LEADING NORTH TO

ME0756'THE RIGHTER FARM, 2 FEET EAST OF A WHITE WOODEN WITNESS POST,

ME0756'1 FOOT NORTH OF A BOARD FENCE, ABOUT LEVEL WITH THE ROAD, AND SET

ME0756'IN THE TOP OF A CONCRETE POST PROJECTING 6 INCHES. NOTE-- THIS

ME0756'MARK MAY BE REACHED FROM STAR CITY, PULASKI COUNTY, BY GOING

ME0756'NORTHWEST ALONG U.S. HIGHWAY 35 ABOUT 2.5 MILES FROM THE SCHOOL

ME0756'BUILDING, THENCE 1.0 MILE EAST ALONG A GRAVEL ROAD TO A CROSS

ME0756'ROAD, THENCE NORTH 0.25 MILE ALONG A GRAVEL ROAD TO A CROSS ROAD,

ME0756'THENCE 1.35 MILE EAST ALONG A GRAVEL ROAD.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

ME0880 *****

ME0880 DESIGNATION - G 155

ME0880 PID - ME0880

ME0880 STATE/COUNTY- IN/ST JOSEPH

ME0880 USGS QUAD - NEW CARLISLE (1980)

ME0880

ME0880 *CURRENT SURVEY CONTROL

ME0880

ME0880*	NAD 83(1986)-	41 40 19.	(N)	086 30 22.	(W)	SCALED
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4/28/2011

DATASHEETS

ME0880*	NAVD 88	-	259.655	(meters)	851.88	(feet)	ADJUSTED
ME0880	<hr/>						
ME0880	GEOID HEIGHT-		-33.87	(meters)			GEOID09
ME0880	DYNAMIC HT	-	259.555	(meters)	851.56	(feet)	COMP
ME0880	MODELED GRAV-		980,231.7	(mgal)			NAVD 88

ME0880
 ME0880 VERT ORDER - SECOND CLASS 0
 ME0880

ME0880.The horizontal coordinates were scaled from a topographic map and have
 ME0880.an estimated accuracy of +/- 6 seconds.

ME0880
 ME0880.The orthometric height was determined by differential leveling and
 ME0880.adjusted in June 1991.

ME0880
 ME0880.The geoid height was determined by GEOID09.

ME0880
 ME0880.The dynamic height is computed by dividing the NAVD 88
 ME0880.geopotential number by the normal gravity value computed on the
 ME0880.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 ME0880.degrees latitude (g = 980.6199 gals.).

ME0880
 ME0880.The modeled gravity was interpolated from observed gravity values.

ME0880;		North	East	Units	Estimated Accuracy
ME0880;SPC IN E	-	713,520.	30,100.	MT	(+/- 180 meters Scaled)

ME0880
 ME0880 SUPERSEDED SURVEY CONTROL

ME0880	NGVD 29 (??/??/92)	259.757	(m)	852.22	(f)	ADJ UNCH	2 0
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ME0880
 ME0880.Superseded values are not recommended for survey control.
 ME0880.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 ME0880.See file dsdata.txt to determine how the superseded data were derived.

ME0880
 ME0880_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEM411134(NAD 83)
 ME0880_MARKER: DB = BENCH MARK DISK
 ME0880_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 ME0880_SP_SET: SET IN TOP OF CONCRETE MONUMENT
 ME0880_STAMPING: G 155 1946
 ME0880_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 ME0880+STABILITY: SURFACE MOTION

ME0880	HISTORY	- Date	Condition	Report By
ME0880	HISTORY	- 1946	MONUMENTED	CGS
ME0880	HISTORY	- 1989	GOOD	USPSQD

ME0880
 ME0880 STATION DESCRIPTION
 ME0880
 ME0880'DESCRIBED BY COAST AND GEODETIC SURVEY 1946
 ME0880'2.4 MI S FROM NEW CARLISLE.
 ME0880'ABOUT 2.35 MILES SOUTH ALONG THE TIMOTHY ROAD FROM THE JUNCTION
 ME0880'OF U.S. HIGHWAY 20 AT NEW CARLISLE, AT THE JUNCTION OF STATE
 ME0880'HIGHWAY 2, 94 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF THE
 ME0880'OLD CHAPEL CHRISTIAN CHURCH, 77 FEET EAST OF THE CENTER LINE
 ME0880'OF THE TIMOTHY ROAD, 47.5 FEET NORTH OF THE CENTER LINE OF THE
 ME0880'WEST BOUND TRAFFIC LANE OF STATE HIGHWAY 2, 2.5 FEET WEST OF
 ME0880'POWER POLE NO. J246-74, 1.5 FEET NORTH OF A WHITE WOODEN WITNESS

4/28/2011

DATASHEETS

ME0880'POST, ABOUT LEVEL WITH THE TIMOTHY ROAD, AND SET IN THE TOP OF
ME0880'A CONCRETE POST PROJECTING 6 INCHES.

ME0880

ME0880

STATION RECOVERY (1989)

ME0880

ME0880'RECOVERY NOTE BY US POWER SQUADRON 1989 (TCR)

ME0880'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

ME1360 *****

ME1360 CBN - This is a Cooperative Base Network Control Station.

ME1360 DESIGNATION - C 156

ME1360 PID - ME1360

ME1360 STATE/COUNTY- IN/JASPER

ME1360 USGS QUAD - WHEATFIELD (1992)

ME1360

ME1360

*CURRENT SURVEY CONTROL

ME1360

ME1360* NAD 83(2007)- 41 11 39.29726(N) 087 01 46.74582(W) ADJUSTED

ME1360* NAVD 88 - 203.166 (meters) 666.55 (feet) ADJUSTED

ME1360

ME1360 EPOCH DATE - 2002.00

ME1360 X - 249,070.670 (meters) COMP

ME1360 Y - -4,800,080.428 (meters) COMP

ME1360 Z - 4,178,791.721 (meters) COMP

ME1360 LAPLACE CORR- -1.24 (seconds) DEFLEC09

ME1360 ELLIP HEIGHT- 169.400 (meters) (02/10/07) ADJUSTED

ME1360 GEOID HEIGHT- -33.77 (meters) GEOID09

ME1360 DYNAMIC HT - 203.080 (meters) 666.27 (feet) COMP

ME1360

ME1360 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

ME1360 Type PID Designation North East Ellip

ME1360 -----

ME1360 NETWORK ME1360 C 156 0.82 0.55 1.92

ME1360 -----

ME1360 MODELED GRAV- 980,193.7 (mgal) NAVD 88

ME1360

ME1360 VERT ORDER - SECOND CLASS 0

ME1360

ME1360.The horizontal coordinates were established by GPS observations

ME1360.and adjusted by the National Geodetic Survey in February 2007.

ME1360

ME1360.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

ME1360.See National Readjustment for more information.

ME1360.The horizontal coordinates are valid at the epoch date displayed above.

ME1360.The epoch date for horizontal control is a decimal equivalence

ME1360.of Year/Month/Day.

ME1360

ME1360.The orthometric height was determined by differential leveling and

ME1360.adjusted in June 1991.

ME1360

ME1360.Photographs are available for this station.

ME1360

ME1360.The X, Y, and Z were computed from the position and the ellipsoidal ht.

ME1360

ME1360.The Laplace correction was computed from DEFLEC09 derived deflections.

ME1360

ME1360.The ellipsoidal height was determined by GPS observations

ME1360.and is referenced to NAD 83.

ME1360

ME1360.The geoid height was determined by GEOID09.

ME1360

ME1360.The dynamic height is computed by dividing the NAVD 88

ME1360.geopotential number by the normal gravity value computed on the

ME1360.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

ME1360.degrees latitude (g = 980.6199 gals.).

ME1360

ME1360.The modeled gravity was interpolated from observed gravity values.

ME1360

ME1360;	North	East	Units	Scale	Factor	Converg.
ME1360;SPC IN W	- 660,131.368	904,503.085	MT	0.99996692	+0 02	07.3
ME1360;SPC IN W	- 2,165,781.00	2,967,523.87	sFT	0.99996692	+0 02	07.3
ME1360;UTM 16	- 4,560,321.358	497,513.589	MT	0.99960008	-0 01	10.3

ME1360

ME1360!	Elev Factor	x	Scale Factor	=	Combined Factor
ME1360!SPC IN W	- 0.99997343	x	0.99996692	=	0.99994035
ME1360!UTM 16	- 0.99997343	x	0.99960008	=	0.99957352

ME1360

ME1360

SUPERSEDED SURVEY CONTROL

ME1360

ME1360	NAD 83(1997)-	41 11 39.29717(N)	087 01 46.74571(W)	AD()	B
ME1360	ELLIP H (04/10/98)	169.417 (m)		GP()	4 1
ME1360	NAVD 88 (04/10/98)	203.17 (m)	666.6 (f)	LEVELING	3
ME1360	NGVD 29 (??/??/92)	203.258 (m)	666.86 (f)	ADJ UNCH	2 0

ME1360

ME1360.Superseded values are not recommended for survey control.

ME1360.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

ME1360.See file dsdata.txt to determine how the superseded data were derived.

ME1360

ME1360_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TDL9751360321(NAD 83)

ME1360_MARKER: DB = BENCH MARK DISK

ME1360_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

ME1360_SP_SET: SET IN TOP OF CONCRETE MONUMENT

ME1360_STAMPING: C 156 1946

ME1360_MARK LOGO: CGS

ME1360_MAGNETIC: N = NO MAGNETIC MATERIAL

ME1360_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

ME1360+STABILITY: SURFACE MOTION

ME1360_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

ME1360+SATELLITE: SATELLITE OBSERVATIONS - June 23, 2009

ME1360

ME1360	HISTORY	- Date	Condition	Report By
ME1360	HISTORY	- 1946	MONUMENTED	CGS
ME1360	HISTORY	- 1971	GOOD	BRADY
ME1360	HISTORY	- 19970805	GOOD	SEC
ME1360	HISTORY	- 20090623	GOOD	JCLS

ME1360

ME1360

STATION DESCRIPTION

ME1360

ME1360'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

ME1360'1.3 MI E FROM WHEATFIELD.

ME1360'ABOUT 1.3 MILE EAST ALONG THE NEW YORK CENTRAL RAILROAD FROM

ME1360'THE STATION AT WHEATFIELD, 0.2 MILE WEST OF A GRAVEL ROAD CROSSING,

ME1360'45 FEET NORTH OF THE NORTH RAIL OF THE TRACK, 22.5 FEET SOUTH OF

ME1360'THE CENTER LINE OF A DIRT ROAD PARALLELING THE TRACK ON THE

ME1360'NORTH, 4.5 FEET NORTH OF POLE NUMBER 56-32, 2 FEET BELOW TRACK
ME1360'LEVEL AND SET IN THE TOP OF A CONCRETE POST PROJECTING ABOUT 5
ME1360'INCHES. NOTE-- POLE 56-32 NO LONGER EXISTS.

ME1360

STATION RECOVERY (1971)

ME1360

ME1360'RECOVERY NOTE BY BRADY LAND SURVEYING INCORPORATED 1971

ME1360'RECOVERED IN GOOD CONDITION.

ME1360

ME1360

STATION RECOVERY (1997)

ME1360

ME1360'RECOVERY NOTE BY SCHNEIDER ENGINEERING CORPORATION 1997 (RGR)

ME1360'THE STATION IS LOCATED ABOUT 1.3 MILES (2.1 KM) EAST OF WHEATFIELD.

ME1360'FROM JUNCTION STATE ROAD 49 AND STATE ROAD 10, GO EAST 1 MILE (1.6 KM)

ME1360'TO COUNTY ROAD 100 EAST. TURN LEFT, NORTH FOR 0.5 MILE (0.8 KM) TO

ME1360'COUNTY ROAD 1250 NORTH. TURN LEFT, WEST (COUNTY ROAD PARALLELS

ME1360'TRACKS) FOR 0.3 MILES (0.5 KM) TO THE STATION ON SOUTH SIDE OF COUNTY

ME1360'ROAD, ON RAILROAD PROPERTY. LOCATED 0.80 METERS (2.62 FT) SOUTH OF

ME1360'COUNTY ROAD RIGHT-OF-WAY FENCE, 13.70 METERS (44.95 FT) NORTH OF NORTH

ME1360'RAIL OF RAILROAD TRACKS, 7.0 METERS (23.0 FT) SOUTH OF CENTERLINE OF

ME1360'COUNTY ROAD, SET IN TOP 25 CM SQUARE CONCRETE POST PROJECTING 13 CM

ME1360'ABOVE GROUND. ABOUT LEVEL WITH COUNTY ROAD, 33.5 EAST OF 0.30 P. OAK

ME1360'(TWIN). OWNERSHIP--U.S. RAILROAD VEST CORP, JMS BUILDING, SUITE 805,

ME1360'SOUTH BEND IN 46601.

ME1360

ME1360

STATION RECOVERY (2009)

ME1360

ME1360'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2009 (MRY)

ME1360'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2011

ME3288 *****

ME3288 CBN - This is a Cooperative Base Network Control Station.

ME3288 DESIGNATION - SOUTH BEND CBL 0

ME3288 PID - ME3288

ME3288 STATE/COUNTY- IN/ST JOSEPH

ME3288 USGS QUAD - SOUTH BEND EAST (1992)

ME3288

ME3288

*CURRENT SURVEY CONTROL

ME3288

ME3288* NAD 83(2007)- 41 43 27.68629(N) 086 07 40.98464(W) ADJUSTED

ME3288* NAVD 88 - 233.2 (meters) 765. (feet) GPS OBS

ME3288

ME3288 EPOCH DATE - 2002.00

ME3288 X - 321,939.497 (meters) COMP

ME3288 Y - -4,756,696.883 (meters) COMP

ME3288 Z - 4,222,935.492 (meters) COMP

ME3288 LAPLACE CORR- 0.86 (seconds) DEFLEC09

ME3288 ELLIP HEIGHT- 199.566 (meters) (02/10/07) ADJUSTED

ME3288 GEOID HEIGHT- -33.63 (meters) GEOID09

ME3288

ME3288 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----

ME3288 Type PID Designation North East Ellip

ME3288 -----

ME3288 NETWORK ME3288 SOUTH BEND CBL 0 0.76 0.53 1.47

ME3288 -----

ME3288

ME3288.The horizontal coordinates were established by GPS observations

ME3288.and adjusted by the National Geodetic Survey in February 2007.

ME3288

ME3288.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).

ME3288.See National Readjustment for more information.

ME3288.The horizontal coordinates are valid at the epoch date displayed above.

ME3288.The epoch date for horizontal control is a decimal equivalence

ME3288.of Year/Month/Day.

ME3288

ME3288.The orthometric height was determined by GPS observations and a

ME3288.high-resolution geoid model.

ME3288

ME3288.The X, Y, and Z were computed from the position and the ellipsoidal ht.

ME3288

ME3288.The Laplace correction was computed from DEFLEC09 derived deflections.

ME3288

ME3288.The ellipsoidal height was determined by GPS observations

ME3288.and is referenced to NAD 83.

ME3288

ME3288.The geoid height was determined by GEOID09.

ME3288

ME3288;		North	East	Units	Scale	Factor	Converg.
ME3288;SPC IN E	-	719,106.175	61,610.639	MT	0.99998479	-0 18	25.5
ME3288;SPC IN E	-	2,359,267.51	202,134.24	sFT	0.99998479	-0 18	25.5
ME3288;UTM 16	-	4,619,539.965	572,523.848	MT	0.99966472	+0 34	49.3

ME3288

ME3288! - Elev Factor x Scale Factor = Combined Factor

ME3288!SPC IN E - 0.99996870 x 0.99998479 = 0.99995349

ME3288!UTM 16 - 0.99996870 x 0.99966472 = 0.99963343

ME3288

ME3288 SUPERSEDED SURVEY CONTROL

ME3288

ME3288 NAD 83(1997)- 41 43 27.68626(N) 086 07 40.98471(W) AD() A

ME3288 ELLIP H (01/19/05) 199.568 (m) GP() 4 1

ME3288

ME3288.Superseded values are not recommended for survey control.

ME3288.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

ME3288.See file dsdata.txt to determine how the superseded data were derived.

ME3288

ME3288_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEM7252319539(NAD 83)

ME3288_MARKER: DH = HORIZONTAL CONTROL DISK

ME3288_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

ME3288_SP_SET: CONCRETE POST

ME3288_STAMPING: 0 1976

ME3288_MARK LOGO: NGS

ME3288_MAGNETIC: N = NO MAGNETIC MATERIAL

ME3288_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

ME3288+STABILITY: SURFACE MOTION

ME3288_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

ME3288+SATELLITE: SATELLITE OBSERVATIONS - May 08, 2008

ME3288

ME3288	HISTORY	- Date	Condition	Report By
ME3288	HISTORY	- 1976	MONUMENTED	IN-141
ME3288	HISTORY	- 19900918	GOOD	NGS
ME3288	HISTORY	- 19900918	GOOD	NGS
ME3288	HISTORY	- 20030618	GOOD	NGS
ME3288	HISTORY	- 20080508	GOOD	LFA

ME3288

STATION DESCRIPTION

ME3288

ME3288

ME3288'DESCRIBED BY NATIONAL GEODETIC SURVEY 1990

ME3288'MARK IS A COMPONENT OF THE SOUTH BEND CALIBRATION BASE LINE, LOCATED
 ME3288'ABOUT 9.7 KM (6.03 MI) NORTHEAST OF SOUTH BEND AND 4.8 KM (2.98 MI)
 ME3288'NORTH OF MISHAWAKA, ON THE SOUTH SIDE OF CLEVELAND ROAD IN SECTION 25
 ME3288'T 38 N R 3 E (SOUTH BEND EAST 7.5 MIN QUAD). OWNERSHIP-STATE
 ME3288'DEPARTMENT OF TRANSPORTATION.

ME3288'TO REACH FROM EXIT 83 (MISHAWAKA EXIT) OF INTERSTATE HIGHWAY 80/90,
 ME3288'LOCATED NORTH OF MISHAWAKA, GO NORTHWEST ON CAPITAL AVENUE FOR 0.65
 ME3288'KM (0.40 MI) TO THE INTERSECTION OF STATE HIGHWAY 23. TURN RIGHT AND
 ME3288'GO NORTHEAST FOR 0.48 KM (0.30 MI) TO THE INTERSECTION OF BRICK ROAD.
 ME3288'TURN RIGHT AND GO EAST FOR 1.45 KM (0.90 MI) TO THE INTERSECTION OF
 ME3288'CARRANT ROAD. TURN RIGHT AND GO SOUTH FOR 0.48 KM (0.30 MI) TO A
 ME3288'RAILROAD CROSSING. CONTINUE SOUTH, PASSING UNDER INTERSTATE HIGHWAY
 ME3288'80/90, FOR 1.1 KM (0.68 MI) TO THE T INTERSECTION WITH CLEVELAND
 ME3288'ROAD. TURN LEFT AND GO EAST FOR 120 M (393.70 FT) TO THE MARK ON THE
 ME3288'RIGHT.

ME3288'MARK IS SET IN THE TOP OF A 30 CM (12 IN) DIAMETER CONCRETE POST FLUSH
 ME3288'WITH GROUND SURFACE. IT IS 19.4 M (63.65 FT) SOUTH OF NGS STATION
 ME3288'SOUTH BEND CBL 0 RM 1 (STAMPED 0 1976 RM 1), 11.9 M (39.04 FT)
 ME3288'NORTHWEST OF NGS STATION SOUTH BEND CBL 0 RM 2 (STAMPED 0 1976 RM 2)
 ME3288', 7.4 M (24.28 FT) SOUTH OF THE CENTERLINE OF CLEVELAND ROAD, AND 1.0
 ME3288'M (3.28 FT) EAST OF A METAL WITNESS POST.

ME3288'FOR MORE INFORMATION CONTACT MR. JOHN R. MC NAMARA, THE ST. JOSEPH
 ME3288'COUNTY SURVEYOR, COUNTY-CITY BUILDING ROOM 1100, 227 WEST JEFFERSON
 ME3288'BOULEVARD, SOUTH BEND, INDIANA 46601. TELEPHONE 219-284-9631. OR
 ME3288'CONTACT MR. RONALD L. RAMSEY, NOAA/NGS, STATE TRANSPORTATION BUILDING
 ME3288', P.O. BOX 30050, DESIGN SURVEY DIVISION, LANSING, MICHIGAN 48909.
 ME3288'TELEPHONE 517-377-1510.

ME3288

ME3288

STATION RECOVERY (1990)

ME3288

ME3288'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990 (LPB)

ME3288'MARK IS A COMPONENT OF THE SOUTH BEND CALIBRATION BASE LINE, LOCATED
 ME3288'ABOUT 9.7 KM (6.03 MI) NORTHEAST OF SOUTH BEND AND 4.8 KM (2.98 MI)
 ME3288'NORTH OF MISHAWAKA, ON THE SOUTH SIDE OF CLEVELAND ROAD IN SECTION 25
 ME3288'T 38 N R 3 E (SOUTH BEND EAST 7.5 MIN QUAD). OWNERSHIP-STATE
 ME3288'DEPARTMENT OF TRANSPORTATION. TO REACH FROM EXIT 83 (MISHAWAKA EXIT)
 ME3288'OF INTERSTATE HIGHWAY 80/90, LOCATED NORTH OF MISHAWAKA, GO NORTHWEST
 ME3288'ON CAPITAL AVENUE FOR 0.65 KM (0.40 MI) TO THE INTERSECTION OF STATE
 ME3288'HIGHWAY 23. TURN RIGHT AND GO NORTHEAST FOR 0.48 KM (0.30 MI) TO THE
 ME3288'INTERSECTION OF BRICK ROAD. TURN RIGHT AND GO EAST FOR 1.45 KM (0.90
 ME3288'MI) TO THE INTERSECTION OF CARRANT ROAD. TURN RIGHT AND GO SOUTH FOR
 ME3288'0.48 KM (0.30 MI) TO A RAILROAD CROSSING. CONTINUE SOUTH, PASSING
 ME3288'UNDER INTERSTATE HIGHWAY 80/90, FOR 1.1 KM (0.68 MI) TO THE T
 ME3288'INTERSECTION WITH CLEVELAND ROAD. TURN LEFT AND GO EAST FOR 120 M
 ME3288'(393.70 FT) TO THE MARK ON THE RIGHT. MARK IS SET IN THE TOP OF A 30
 ME3288'CM (12 IN) DIAMETER CONCRETE POST FLUSH WITH GROUND SURFACE. IT IS
 ME3288'19.4 M (63.65 FT) SOUTH OF NGS STATION SOUTH BEND CBL 0 RM 1 (STAMPED
 ME3288'0 1976 RM 1), 11.9 M (39.04 FT) NORTHWEST OF NGS STATION SOUTH BEND
 ME3288'CBL 0 RM 2 (STAMPED 0 1976 RM 2) , 7.4 M (24.28 FT) SOUTH OF THE
 ME3288'CENTERLINE OF CLEVELAND ROAD, AND 1.0 M (3.28 FT) EAST OF A METAL
 ME3288'WITNESS POST. FOR MORE INFORMATION CONTACT MR. JOHN R. MC NAMARA, THE
 ME3288'ST. JOSEPH COUNTY SURVEYOR, COUNTY-CITY BUILDING ROOM 1100, 227 WEST
 ME3288'JEFFERSON BOULEVARD, SOUTH BEND, INDIANA 46601. CONTACT MR. RONALD L.
 ME3288'RAMSEY, NOAA/NGS, STATE TRANSPORTATION BUILDING , P.O. BOX 30050,

4/28/2011

DATASHEETS

ME3288'DESIGN SURVEY DIVISION, LANSING, MICHIGAN 48909.

ME3288

ME3288

STATION RECOVERY (2003)

ME3288

ME3288'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2003 (JMW)

ME3288'MARK IS A COMPONENT OF THE SOUTH BEND CALIBRATION BASE LINE, LOCATED

ME3288'ABOUT 9.7 KM (6.03 MI) NORTHEAST OF SOUTH BEND AND 4.8 KM (2.98 MI)

ME3288'NORTH OF MISHAWAKA, ON THE SOUTH SIDE OF CLEVELAND ROAD IN SECTION

ME3288'25, T 38 N, R 3 E (SOUTH BEND EAST 7.5 MIN QUAD). OWNERSHIP-STATE

ME3288'DEPARTMENT OF TRANSPORTATION.

ME3288'

ME3288'TO REACH FROM EXIT 83 (MISHAWAKA EXIT) OF INTERSTATE HIGHWAY 80/90,

ME3288'LOCATED NORTH OF MISHAWAKA, GO NORTHWEST ON CAPITAL AVENUE FOR 0.65

ME3288'KM (0.40 MI) TO THE INTERSECTION OF STATE HIGHWAY 23. TURN RIGHT AND

ME3288'GO NORTHEAST FOR 0.48 KM (0.30 MI) TO THE INTERSECTION OF BRICK ROAD.

ME3288'TURN RIGHT AND GO EAST FOR 1.45 KM (0.90 MI) TO THE INTERSECTION OF

ME3288'CURRENT ROAD. TURN RIGHT AND GO SOUTH FOR 0.48 KM (0.30 MI) TO A

ME3288'RAILROAD CROSSING. CONTINUE SOUTH, PASSING UNDER INTERSTATE HIGHWAY

ME3288'80/90, FOR 1.1 KM (0.68 MI) TO THE T INTERSECTION WITH CLEVELAND

ME3288'ROAD. TURN LEFT AND GO EAST FOR 120 M (393.70 FT) TO THE MARK ON THE

ME3288'RIGHT. MARK IS SET IN THE TOP OF A 30 CM (12 IN) DIAMETER CONCRETE

ME3288'POST FLUSH WITH GROUND SURFACE.

ME3288'

ME3288'IT IS 19.4 M (63.65 FT) SOUTH OF NGS STATION SOUTH BEND CBL 0 RM 1

ME3288'(STAMPED 1976 RM 1), 11.9 M (39.04 FT) NORTHWEST OF NGS STATION SOUTH

ME3288'BEND CBL 0 RM 2 (STAMPED 0 1976 RM 2), 7.4 M (24.28 FT) SOUTH OF THE

ME3288'CENTERLINE OF CLEVELAND ROAD, AND 1.0 M (3.28 FT) EAST OF A METAL

ME3288'WITNESS POST. FOR MORE INFORMATION CONTACT MR. JOHN R. MCNAMARA, THE

ME3288'ST. JOSEPH COUNTY SURVEYOR, COUNTY-CITY BUILDING ROOM 1100, 227 WEST

ME3288'JEFFERSON BOULEVARD, SOUTH BEND, INDIANA 46601.

ME3288

ME3288

STATION RECOVERY (2008)

ME3288

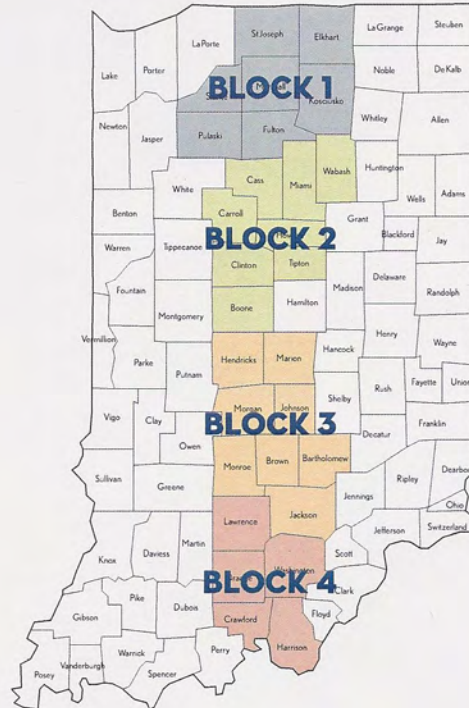
ME3288'RECOVERY NOTE BY LAWSON-FISHER ASSOCIATES PC 2008 (SST)

ME3288'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:07

REPORT OF GROUND CONTROL 2011 INDIANA STATEWIDE IMAGERY & LiDAR PROGRAM



CENTRAL TIER - BLOCK 1 VOLUME 2

71177-01



WOOLPERT
DESIGN | GEOSPATIAL | INFRASTRUCTURE

REPORT OF GROUND CONTROL
2011 INDIANA STATE-WIDE
IMAGERY AND LIDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4

Prepared for:



7635 Interactive Way
Suite 100
Indianapolis, In. 46278

Prepared By:



April 2011

Volume 2 of 5

Table of Contents

Appendix C – Block 1 Data Tables

Appendix D – Block 1 Data Sheets

Appendix E – Block 1 Field Sheets

Appendix F – Block 1 Data Disk

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix C

Block 1 Data Tables

USI Control Report



Project: 2011-024

Description: 2011 Statewide Ortho - Block 1

Client: Woolpert

Datum: North American Datum of 1983 (NAD 83)

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Block 1 - Photo Control

ID	Ind. East SPC		Ind. West SPC		UTM '16N		Lat.	Long.	NAVD 1988 Elevation
	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT			
76	2371100.563	94583.861	2370438.138	3105792.758	15166099.544	1770675.325	41°45'16.45439"N	86°31'20.76600"W	781.167
77	2372399.183	154057.812	2372715.876	3165236.711	15168318.864	1830099.119	41°45'34.38357"N	86°18'16.25521"W	797.811
77A	2372374.729	154203.413	2372693.823	3165382.697	15168296.677	1830245.030	41°45'34.15265"N	86°18'14.33174"W	797.526
78	2369544.412	220073.877	2370948.438	3231293.882	15166488.128	1896129.511	41°45'10.09865"N	86°03'45.03046"W	793.439
78A	2369524.179	220011.552	2370927.179	3231231.893	15166466.938	1896067.526	41°45'09.89593"N	86°03'45.85151"W	793.945
79	2369608.003	272666.919	2371878.082	3283883.930	15167366.490	1948700.341	41°45'12.53542"N	85°52'11.14858"W	779.599
79A	2369598.069	273321.943	2371878.935	3284539.109	15167366.708	1949355.268	41°45'12.45246"N	85°52'02.50613"W	780.886
80	2371727.064	329196.131	2374928.177	3340378.872	15170360.693	2005176.463	41°45'34.11693"N	85°39'45.31670"W	813.527
81	2316178.247	100652.335	2315624.812	3112763.176	15111300.026	1777590.134	41°36'14.47965"N	86°29'53.71406"W	704.834
81A	2316196.121	100650.277	2315642.649	3112760.825	15111317.859	1777587.802	41°36'14.55603"N	86°29'53.74340"W	705.159
82	2317808.999	158082.007	2318198.207	3170158.080	15113817.038	1834965.911	41°36'35.36800"N	86°17'17.96190"W	814.361
82A	2317758.126	158073.983	2318147.208	3170150.892	15113766.065	1834958.676	41°36'34.86484"N	86°17'18.06270"W	814.176
83	2317455.425	220435.601	2318868.494	3232512.103	15114426.862	1897296.908	41°36'35.49941"N	86°03'37.11836"W	811.004
84	2316465.511	267602.677	2318653.125	3279693.656	15114166.015	1944460.204	41°36'27.37951"N	85°53'16.16464"W	784.088
85	2306842.119	331544.748	2310079.380	3343794.459	15105533.688	2008528.024	41°34'53.06433"N	85°39'14.45250"W	916.368
85A	2306833.690	331569.392	2310071.355	3343819.243	15105525.643	2008552.790	41°34'52.98102"N	85°39'14.12823"W	916.562
86	2253795.467	100981.189	2253257.642	3114114.358	15048954.948	1778880.701	41°25'58.22983"N	86°29'41.51805"W	715.623
87	2269613.576	153265.803	2269929.370	3166132.729	15065570.327	1830895.536	41°28'38.87821"N	86°18'16.67549"W	884.070
88	2251139.020	220538.720	2252557.608	3233702.208	15048140.116	1898422.641	41°25'40.30925"N	86°03'31.79999"W	842.027
89	2252696.461	273849.575	2254989.319	3286985.774	15050519.624	1951688.151	41°25'57.51101"N	85°51'52.01047"W	826.384
90	2251861.912	330534.338	2255080.391	3343685.112	15050556.095	2008365.112	41°25'49.85649"N	85°39'27.82291"W	871.787
90A	2251881.273	330518.710	2255099.496	3343669.166	15050575.209	2008349.789	41°25'50.04779"N	85°39'28.02805"W	871.960
91	224391.279	15266.668	2222723.740	3045153.967	15018498.742	1709916.702	41°21'00.19282"N	86°44'48.40511"W	682.895
91A	2224559.808	31264.072	2222887.943	3044888.677	15018663.138	1709651.669	41°21'01.82533"N	86°44'51.87519"W	677.798
92	2200820.109	103887.136	2200338.300	3117885.333	14996051.842	1782599.417	41°17'15.14165"N	86°28'56.82770"W	737.386
92A	2200758.930	104098.064	2200280.572	3118097.226	14995993.932	1782811.175	41°17'14.55680"N	86°28'54.05742"W	737.439
93	2211715.110	164332.027	2212218.297	3178144.406	15007869.529	1842847.178	41°19'07.63761"N	86°15'46.06676"W	833.890
93A	2211684.819	164257.594	2212186.794	3178070.475	15007838.109	1842773.244	41°19'07.33328"N	86°15'47.03948"W	835.361
94	2197908.502	223542.498	2199379.085	3237575.499	14994978.159	1902243.361	41°16'54.51729"N	86°02'49.30311"W	815.183
95	2195127.700	277320.027	2197475.679	3291396.839	14993023.849	1956042.260	41°16'28.77070"N	85°51'04.83912"W	836.633



USI Control Report

Project: 2011-024

Description: 2011 Statewide Ortho - Block 1

Client: Woolpert

Datum: North American Datum of 1983 (NARS 2007)

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Block 1 - Photo Control

ID	Ind. East SPC		Ind. East SPC		Ind. West SPC		UTM 16N		UTM 16N		Lat.	Long.	NAVD 1988 Elevation
	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT			
96	2198474.318	334503.852	2201755.351	3348527.234	2201755.351	3348527.234	14997247.055	2013154.712	14997247.055	2013154.712	41°17'02.36157"N	85°38'35.89947"W	904.128
97	2187322.139	-19346.443	2184833.649	2994898.245	2184833.649	2994898.245	14980670.903	1659643.229	14980670.903	1659643.229	41°14'47.22624"N	86°55'48.22842"W	664.813
98	2147213.672	-22990.758	2144676.678	2991907.962	2144676.678	2991907.962	14940531.606	1656615.598	14940531.606	1656615.598	41°08'10.50169"N	86°56'28.23373"W	694.360
99	2159523.390	49066.840	2158155.842	3063748.029	2158155.842	3063748.029	14953937.037	1728441.935	14953937.037	1728441.935	41°10'21.46050"N	86°40'48.53519"W	710.241
100	2158474.202	107230.845	2158065.547	3121918.557	2158065.547	3121918.557	14953779.100	1786590.606	14953779.100	1786590.606	41°10'17.08956"N	86°28'07.91287"W	730.195
100A	2158198.425	107233.717	2157777.859	3121925.918	2157777.859	3121925.918	14953503.509	1786597.700	14953503.509	1786597.700	41°10'14.36523"N	86°28'07.84208"W	730.495
101	2158305.404	169640.096	2158900.615	3184322.586	2158900.615	3184322.586	14954566.115	1848971.906	14954566.115	1848971.906	41°10'20.30240"N	86°14'31.86915"W	894.664
102	2158372.467	220754.037	2159799.726	3235431.494	2159799.726	3235431.494	14955415.958	1900062.243	14955415.958	1900062.243	41°10'23.76600"N	86°03'23.50443"W	811.267
103	2147836.515	28203.961	2150361.792	3303051.265	2150361.792	3303051.265	14945916.923	1967647.062	14945916.923	1967647.062	41°08'41.71129"N	85°48'41.26322"W	857.164
103A	2147209.733	286758.550	2149711.488	3301616.044	2149711.488	3301616.044	14945268.243	1966211.772	14945268.243	1966211.772	41°08'35.49409"N	85°49'00.14201"W	877.588
104	2162478.731	334018.133	2165750.184	3348628.286	2165750.184	3348628.286	14961255.741	2013221.209	14961255.741	2013221.209	41°11'06.70656"N	85°38'42.37872"W	965.772
105	2091653.339	-12971.106	2089293.864	3002827.211	2089293.864	3002827.211	14885158.803	1667477.926	14885158.803	1667477.926	40°59'03.07438"N	86°54'07.03272"W	689.010
105A	2091640.714	-12956.597	2089281.476	3002841.820	2089281.476	3002841.820	14885146.406	1667492.518	14885146.406	1667492.518	40°59'02.95167"N	86°54'06.84256"W	689.630
106	2116514.807	68203.581	2115466.905	3083580.178	2115466.905	3083580.178	14911245.065	1748225.872	14911245.065	1748225.872	41°03'18.68700"N	86°36'32.24717"W	710.449
107	2121311.913	107927.135	2120908.333	3123218.997	2120908.333	3123218.997	14916646.595	1787855.039	14916646.595	1787855.039	41°04'09.99741"N	86°27'54.35563"W	742.582
107A	2121324.757	108055.796	2120923.265	3123347.431	2120923.265	3123347.431	14916661.399	1787983.438	14916661.399	1787983.438	41°04'10.13594"N	86°27'52.67751"W	741.316
108	2117784.845	171026.413	2118406.600	3186367.619	2118406.600	3186367.619	14914085.488	1850977.444	14914085.488	1850977.444	41°03'40.03871"N	86°14'10.27854"W	776.066
108A	2117859.168	171021.559	2118480.837	3186361.559	2118480.837	3186361.559	14914159.703	1850971.457	14914159.703	1850971.457	41°03'40.77274"N	86°14'10.34824"W	776.132
109	2110640.070	228969.034	2120203.278	3244422.108	2120203.278	3244422.108	14907829.086	1909003.918	14907829.086	1909003.918	41°02'32.49215"N	86°01'33.50859"W	857.088
109A	2111074.171	228930.761	2112836.737	3244376.787	2112836.737	3244376.787	14908262.422	1908959.029	14908262.422	1908959.029	41°02'36.77980"N	86°01'34.03141"W	852.342
110	2065591.187	-19159.888	2063138.318	2997062.347	2063138.318	2997062.347	14859018.408	1661690.268	14859018.408	1661690.268	40°54'44.74274"N	86°55'22.82713"W	675.884
110A	2065612.282	-19170.275	2063159.240	2997051.622	2063159.240	2997051.622	14859039.332	1661679.567	14859039.332	1661679.567	40°54'44.94966"N	86°55'22.96633"W	676.291
111	2059346.293	194289.537	2060350.341	3210576.357	2060350.341	3210576.357	14856028.183	1875121.629	14856028.183	1875121.629	40°54'04.01842"N	86°09'02.37830"W	828.534
111A	2059069.612	194270.315	2060073.370	3210561.616	2060073.370	3210561.616	14855751.332	1875106.629	14855751.332	1875106.629	40°54'01.28355"N	86°09'02.60869"W	827.952
112	2272465.509	215117.352	2273794.074	3227932.027	2273794.074	3227932.027	15069374.041	1892675.104	15069374.041	1892675.104	41°29'10.76441"N	86°04'44.30150"W	833.746
QC61	2347302.303	131359.065	2347248.686	3142953.872	2347248.686	3142953.872	15142882.844	1807800.040	15142882.844	1807800.040	41°41'24.68229"N	86°23'12.97157"W	728.365
QC61A	2347306.138	131442.288	2347253.890	3143037.021	2347253.890	3143037.021	15142887.965	1807883.163	15142887.965	1807883.163	41°41'24.72705"N	86°23'11.87514"W	729.215
QC62	2353620.639	181065.268	2354383.856	3192550.374	2354383.856	3192550.374	15149967.345	1857384.701	15149967.345	1857384.701	41°42'30.69037"N	86°12'18.36018"W	740.515
QC63	2348663.396	226723.509	2350178.047	3328286.779	2350178.047	3328286.779	15145718.892	1903099.639	15145718.892	1903099.639	41°41'44.09758"N	86°02'16.11220"W	757.907
QC64	2358801.129	287054.904	2361308.159	3298449.727	2361308.159	3298449.727	15156786.527	1963250.306	15156786.527	1963250.306	41°43'26.05927"N	85°49'01.06930"W	753.296



USI Control Report

Project: 2011-024
 Description: 2011 Statewide Ortho - Block 1
 Client: Woolpert
 Datum: North American Datum of 1983 (NRSR 2007)
 Geoid: Geoid 09
 Units: US Survey Feet
 1 meter = (3937/1200) US Survey Feet

Block 1 - Photo Control

ID	Ind. East SPC		Ind. East SPC		Ind. West SPC		UTM 16N		UTM 16N		Lat.	Long.	NAVD 1988 Elevation
	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT			
QC65	2289609.755	162007.643	2290066.522	3174545.935	2290066.522	3174545.935	15085691.758	1839324.964	15085691.758	1839324.964	41°31'57.05213"N	86°16'23.67840"W	855.072
QC66	2285610.086	294485.941	2288238.924	3307083.056	2288238.924	3307083.056	15083737.080	1971809.728	15083737.080	1971809.728	41°31'23.05864"N	85°47'21.69857"W	822.992
QC67	2176575.206	22827.598	2174776.648	3037236.873	2174776.648	3037236.873	14970577.050	1701956.552	14970577.050	1701956.552	41°13'06.75056"N	86°46'34.43533"W	699.971
QC68	2238064.281	84979.297	2237267.434	3098372.455	2237267.434	3098372.455	15032385.872	1763129.319	15032385.872	1763129.319	41°23'21.25492"N	86°33'09.46379"W	707.312
QC69	2178889.154	208511.026	2180115.766	3222855.041	2180115.766	3222855.041	14975736.300	1887510.044	14975736.300	1887510.044	41°13'45.90474"N	86°06'04.93825"W	781.736
QC69A	2179259.220	208497.520	2180485.588	3222835.505	2180485.588	3222835.505	14976105.999	1887490.870	14976105.999	1887490.870	41°13'49.56042"N	86°06'05.13923"W	783.649
QC70	2243795.276	150236.594	2244064.545	3163526.391	2244064.545	3163526.391	15039717.782	1828265.290	15039717.782	1828265.290	41°24'23.58213"N	86°18'53.92931"W	823.124
QC70A	2243761.409	150248.669	2244030.880	3163539.018	2244030.880	3163539.018	15039684.117	1828277.880	15039684.117	1828277.880	41°24'23.24843"N	86°18'53.76752"W	822.343
QC71	2226914.664	254309.254	2228886.449	3267867.436	2228886.449	3267867.436	15024445.154	1932552.047	15024445.154	1932552.047	41°21'42.24221"N	85°56'07.49383"W	832.073
QC71A	2226895.826	254326.399	2228867.891	3267884.888	2228867.891	3267884.888	15024426.586	1932569.475	15024426.586	1932569.475	41°21'42.05662"N	85°56'07.26824"W	832.025
QC72	2229039.709	294556.705	2231669.216	3308079.821	2231669.216	3308079.821	15027188.206	1972751.555	15027188.206	1972751.555	41°22'04.13488"N	85°47'19.71882"W	887.471
QC72A	2229057.832	294998.254	2231694.556	3308521.079	2231694.556	3308521.079	15027213.112	1973192.767	15027213.112	1973192.767	41°22'04.32005"N	85°47'13.92802"W	889.280
QC73	2123230.601	265903.174	2125393.351	3281150.653	2125393.351	3281150.653	14920979.024	1945730.996	14920979.024	1945730.996	41°04'38.11910"N	85°53'31.92258"W	905.528
QC74	2126774.048	-10252.270	2124449.547	3004975.315	2124449.547	3004975.315	14920299.451	1669656.792	14920299.451	1669656.792	41°04'50.39727"N	86°53'38.02830"W	687.317
QC75	2091487.179	-7060.410	2089223.587	3008739.070	2089223.587	3008739.070	14885082.915	1673387.534	14885082.915	1673387.534	40°59'02.25154"N	86°52'49.94931"W	682.409
QC76	2104183.661	76901.198	2103279.235	3092476.352	2103279.235	3092476.352	14899053.458	1757107.086	14899053.458	1757107.086	41°01'17.77245"N	86°34'37.05093"W	705.397
QC76A	2103493.123	77233.137	2102594.208	3092819.436	2102594.208	3092819.436	14898368.360	1757449.388	14898368.360	1757449.388	41°01'10.98433"N	86°34'32.62699"W	709.422
QC77	2178189.703	127332.821	2178093.526	3141696.506	2178093.526	3141696.506	14973792.601	1806380.309	14973792.601	1806380.309	41°13'33.62233"N	86°23'47.23952"W	742.590
QC78	2102604.129	122701.311	2102443.167	3138294.722	2102443.167	3138294.722	14898173.979	1802907.465	14898173.979	1802907.465	41°01'06.45528"N	86°24'39.39701"W	780.363
QC79	2118154.284	180922.667	2118936.739	3196256.949	2118936.739	3196256.949	14914605.980	1860863.530	14914605.980	1860863.530	41°03'44.30726"N	86°12'01.12426"W	780.270
QC80	2167921.497	317026.171	2170916.396	3331547.012	2170916.396	3331547.012	14986436.315	1996151.494	14986436.315	1996151.494	41°12'00.46651"N	85°42'24.64957"W	918.485

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix D

Block 1 Data Sheets

2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 76

Coordinate Values:

	Northing	Easting
Ind. East SPC:	94583.861	2371100.563
Ind. West SPC:	2370438.138	3105792.758
UTM 16N:	15166099.544	1770675.325

Geodetic Coordinates:

Latitude	Longitude
41°45'16.45439"N	86°31'20.76600"W

Orthometric Height:

NAVD 1988
781.167

Ground Photo:

Target ID: 76

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 77

Coordinate Values:

	Northing	Easting
Ind. East SPC:	154057.812	2372399.183
Ind. West SPC:	2372715.876	3165236.711
UTM 16N:	15168318.864	1830099.119

Geodetic Coordinates:

Latitude	Longitude
41°45'34.38357"N	86°18'16.25521"W

Orthometric Height:

NAVD 1988
797.811

Ground Photo:

Target ID: 77

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 77A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	154203.413	2372374.729
Ind. West SPC:	2372693.823	3165382.697
UTM 16N:	15168296.677	1830245.03

Geodetic Coordinates:

Latitude	Longitude
41°45'34.15265"N	86°18'14.33174"W

Orthometric Height:

NAVD 1988
797.526

Ground Photo:

Target ID: 77A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 78

Coordinate Values:

	Northing	Easting
Ind. East SPC:	220073.877	2369544.412
Ind. West SPC:	2370948.438	3231293.882
UTM 16N:	15166488.128	1896129.511

Geodetic Coordinates:

Latitude	Longitude
41°45'10.09865"N	86°03'45.03046"W

Orthometric Height:

NAVD 1988
793.439

Ground Photo:

Target ID: 78

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 78A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	220011.552	2369524.179
Ind. West SPC:	2370927.179	3231231.893
UTM 16N:	15166466.938	1896067.526

Geodetic Coordinates:

Latitude	Longitude
41°45'09.89593"N	86°03'45.85151"W

Orthometric Height:

NAVD 1988
793.945

Ground Photo:

Target ID: 78A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 79

Coordinate Values:

	Northing	Easting
Ind. East SPC:	272666.919	2369608.003
Ind. West SPC:	2371878.082	3283883.93
UTM 16N:	15167366.49	1948700.341

Geodetic Coordinates:

Latitude	Longitude
41°45'12.53542"N	85°52'11.14858"W

Orthometric Height:

NAVD 1988
779.599

Ground Photo:

Target ID: 79

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 79A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	273321.943	2369598.069
Ind. West SPC:	2371878.935	3284539.109
UTM 16N:	15167366.708	1949355.268

Geodetic Coordinates:

Latitude	Longitude
41°45'12.45246"N	85°52'02.50613"W

Orthometric Height:

NAVD 1988
780.886

Ground Photo:

Target ID: 79A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 80

Coordinate Values:

	Northing	Easting
Ind. East SPC:	329196.131	2371727.064
Ind. West SPC:	2374928.177	3340378.872
UTM 16N:	15170360.693	2005176.463

Geodetic Coordinates:

Latitude	Longitude
41°45'34.11693"N	85°39'45.31670"W

Orthometric Height:

NAVD 1988
813.527

Ground Photo:

Target ID: 80

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 81

Coordinate Values:

	Northing	Easting
Ind. East SPC:	100652.335	2316178.247
Ind. West SPC:	2315624.812	3112763.176
UTM 16N:	15111300.026	1777590.134

Geodetic Coordinates:

Latitude	Longitude
41°36'14.47965"N	86°29'53.71406"W

Orthometric Height:

NAVD 1988
704.834

Ground Photo:

Target ID: 81

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 81A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	100650.277	2316196.121
Ind. West SPC:	2315642.649	3112760.825
UTM 16N:	15111317.859	1777587.802

Geodetic Coordinates:

Latitude	Longitude
41°36'14.65603"N	86°29'53.74340"W

Orthometric Height:

NAVD 1988
705.159

Ground Photo:

Target ID: 81A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 82

Coordinate Values:

	Northing	Easting
Ind. East SPC:	158082.007	2317808.999
Ind. West SPC:	2318198.207	3170158.08
UTM 16N:	15113817.038	1834965.911

Geodetic Coordinates:

Latitude	Longitude
41°36'35.36800"N	86°17'17.96190"W

Orthometric Height:

NAVD 1988
814.361

Ground Photo:

Target ID: 82

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 82A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	158073.983	2317758.126
Ind. West SPC:	2318147.208	3170150.892
UTM 16N:	15113766.065	1834958.676

Geodetic Coordinates:

Latitude	Longitude
41°36'34.86484"N	86°17'18.06270"W

Orthometric Height:

NAVD 1988
814.176

Ground Photo:

Target ID: 82A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 83

Coordinate Values:

	Northing	Easting
Ind. East SPC:	220435.601	2317455.425
Ind. West SPC:	2318868.494	3232512.103
UTM 16N:	15114426.862	1897296.908

Geodetic Coordinates:

Latitude	Longitude
41°36'35.49941"N	86°03'37.11836"W

Orthometric Height:

NAVD 1988
811.004

Ground Photo:

Target ID: 83

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 84

Coordinate Values:

	Northing	Easting
Ind. East SPC:	267602.677	2316465.511
Ind. West SPC:	2318653.125	3279693.656
UTM 16N:	15114166.015	1944460.204

Geodetic Coordinates:

Latitude	Longitude
41°36'27.37951"N	85°53'16.16464"W

Orthometric Height:

NAVD 1988
784.088

Ground Photo:

Target ID: 84

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 85

Coordinate Values:

	Northing	Easting
Ind. East SPC:	331544.748	2306842.119
Ind. West SPC:	2310079.38	3343794.459
UTM 16N:	15105533.688	2008528.024

Geodetic Coordinates:

Latitude	Longitude
41°34'53.06433"N	85°39'14.45250"W

Orthometric Height:

NAVD 1988
916.368

Ground Photo:

Target ID: 85

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 85A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	331569.392	2306833.69
Ind. West SPC:	2310071.355	3343819.243
UTM 16N:	15105525.643	2008552.79

Geodetic Coordinates:

Latitude	Longitude
41°34'52.98102"N	85°39'14.12823"W

Orthometric Height:

NAVD 1988
916.562

Ground Photo:

Target ID: 85A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 86

Coordinate Values:

	Northing	Easting
Ind. East SPC:	100981.189	2253795.467
Ind. West SPC:	2253257.642	3114114.358
UTM 16N:	15048954.948	1778880.701

Geodetic Coordinates:

Latitude	Longitude
41°25'58.22983"N	86°29'41.51805"W

Orthometric Height:

NAVD 1988
715.623

Ground Photo:

Target ID: 86

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 87

Coordinate Values:

	Northing	Easting
Ind. East SPC:	153265.803	2269613.576
Ind. West SPC:	2269929.37	3166132.729
UTM 16N:	15065570.327	1830895.536

Geodetic Coordinates:

Latitude	Longitude
41°28'38.87821"N	86°18'16.67549"W

Orthometric Height:

NAVD 1988
884.07

Ground Photo:

Target ID: 87

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 88

Coordinate Values:

	Northing	Easting
Ind. East SPC:	220538.72	2251139.02
Ind. West SPC:	2252557.608	3233702.208
UTM 16N:	15048140.116	1898422.641

Geodetic Coordinates:

Latitude	Longitude
41°25'40.30925"N	86°03'31.79999"W

Orthometric Height:

NAVD 1988
842.027

Ground Photo:

Target ID: 88

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 89

Coordinate Values:

	Northing	Easting
Ind. East SPC:	273849.575	2252698.461
Ind. West SPC:	2254989.319	3286985.774
UTM 16N:	15050519.624	1951688.151

Geodetic Coordinates:

Latitude	Longitude
41°25'57.51101"N	85°51'52.01047"W

Orthometric Height:

NAVD 1988
826.364

Ground Photo:

Target ID: 89

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 90

Coordinate Values:

	Northing	Easting
Ind. East SPC:	330534.338	2251861.912
Ind. West SPC:	2255080.391	3343685.112
UTM 16N:	15050556.095	2008365.711

Geodetic Coordinates:

Latitude	Longitude
41°25'49.85649"N	85°39'27.82291"W

Orthometric Height:

NAVD 1988
871.787

Ground Photo:

Target ID: 90

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 90A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	330518.71	2251881.273
Ind. West SPC:	2255099.496	3343669.166
UTM 16N:	15050575.209	2008349.789

Geodetic Coordinates:

Latitude	Longitude
41°25'50.04779"N	85°39'28.02805"W

Orthometric Height:

NAVD 1988
871.96

Ground Photo:

Target ID: 90A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 91

Coordinate Values:

	Northing	Easting
Ind. East SPC:	31526.668	2224391.279
Ind. West SPC:	2222723.74	3045153.967
UTM 16N:	15018498.742	1709916.702

Geodetic Coordinates:

Latitude	Longitude
41°21'00.19282"N	86°44'48.40511"W

Orthometric Height:

NAVD 1988
682.895

Ground Photo:

Target ID: 91

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 91A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	31264.072	2224559.808
Ind. West SPC:	2222887.943	3044888.677
UTM 16N:	15018663.138	1709651.669

Geodetic Coordinates:

Latitude	Longitude
41°21'01.82533"N	86°44'51.87519"W

Orthometric Height:

NAVD 1988
677.798

Ground Photo:

Target ID: 91A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 92

Coordinate Values:

	Northing	Easting
Ind. East SPC:	103887.136	2200820.109
Ind. West SPC:	2200338.3	3117885.333
UTM 16N:	14996051.842	1782599.417

Geodetic Coordinates:

Latitude	Longitude
41°17'15.14165"N	86°28'56.82770"W

Orthometric Height:

NAVD 1988
737.386

Ground Photo:

Target ID: 92

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 92A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	104098.064	2200758.93
Ind. West SPC:	2200280.572	3118097.226
UTM 16N:	14995993.932	1782811.175

Geodetic Coordinates:

Latitude	Longitude
41°17'14.55680"N	86°28'54.05742"W

Orthometric Height:

NAVD 1988
737.439

Ground Photo:

Target ID: 92A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 93

Coordinate Values:

	Northing	Easting
Ind. East SPC:	164332.027	2211715.11
Ind. West SPC:	2212218.297	3178144.406
UTM 16N:	15007869.529	1842847.178

Geodetic Coordinates:

Latitude	Longitude
41°19'07.63761"N	86°15'46.06676"W

Orthometric Height:

NAVD 1988
833.89

Ground Photo:

Target ID: 93

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 93A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	164257.594	2211684.819
Ind. West SPC:	2212186.794	3178070.475
UTM 16N:	15007838.109	1842773.244

Geodetic Coordinates:

Latitude	Longitude
41°19'07.33328"N	86°15'47.03948"W

Orthometric Height:

NAVD 1988
835.361

Ground Photo:

Target ID: 93A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 94

Coordinate Values:

	Northing	Easting
Ind. East SPC:	223542.498	2197908.502
Ind. West SPC:	2199379.085	3237575.499
UTM 16N:	14994978.159	1902243.361

Geodetic Coordinates:

Latitude	Longitude
41°16'54.51729"N	86°02'49.30311"W

Orthometric Height:

NAVD 1988
815.183

Ground Photo:

Target ID: 94

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 95

Coordinate Values:

	Northing	Easting
Ind. East SPC:	277320.027	2195127.7
Ind. West SPC:	2197475.679	3291396.839
UTM 16N:	14993023.849	1956042.26

Geodetic Coordinates:

Latitude	Longitude
41°16'28.77070"N	85°51'04.83912"W

Orthometric Height:

NAVD 1988
836.633

Ground Photo:

Target ID: 95

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 96

Coordinate Values:

	Northing	Easting
Ind. East SPC:	334503.852	2198474.318
Ind. West SPC:	2201755.351	3348527.234
UTM 16N:	14997247.055	2013154.712

Geodetic Coordinates:

Latitude	Longitude
41°17'02.36157"N	85°38'35.89947"W

Orthometric Height:

NAVD 1988
904.128

Ground Photo:

Target ID: 96

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 97

Coordinate Values:

	Northing	Easting
Ind. East SPC:	-19346.443	2187322.139
Ind. West SPC:	2184833.649	2994898.245
UTM 16N:	14980670.903	1659643.229

Geodetic Coordinates:

Latitude	Longitude
41°14'47.22624"N	86°55'48.22842"W

Orthometric Height:

NAVD 1988
664.813

Ground Photo:

Target ID: 97

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 98

Coordinate Values:

	Northing	Easting
Ind. East SPC:	-22990.758	2147213.672
Ind. West SPC:	2144676.678	2991907.962
UTM 16N:	14940531.606	1656615.598

Geodetic Coordinates:

Latitude	Longitude
41°08'10.50169"N	86°56'28.23373"W

Orthometric Height:

NAVD 1988
694.36

Ground Photo:

Target ID: 98

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 99

Coordinate Values:

	Northing	Easting
Ind. East SPC:	49066.84	2159523.39
Ind. West SPC:	2158155.842	3063748.029
UTM 16N:	14953937.037	1728441.935

Geodetic Coordinates:

Latitude	Longitude
41°10'21.46050"N	86°40'48.53519"W

Orthometric Height:

NAVD 1988
710.241

Ground Photo:

Target ID: 99

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 100

Coordinate Values:

	Northing	Easting
Ind. East SPC:	107230.845	2158474.202
Ind. West SPC:	2158053.547	3121918.557
UTM 16N:	14953779.1	1786590.606

Geodetic Coordinates:

Latitude	Longitude
41°10'17.08956"N	86°28'07.91287"W

Orthometric Height:

NAVD 1988
730.195

Ground Photo:

Target ID: 100

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 100A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	107233.717	2158198.425
Ind. West SPC:	2157777.859	3121925.918
UTM 16N:	14953503.509	1786597.7

Geodetic Coordinates:

Latitude	Longitude
41°10'14.36523"N	86°28'07.84208"W

Orthometric Height:

NAVD 1988
730.495

Ground Photo:

Target ID: 100A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 101

Coordinate Values:

	Northing	Easting
Ind. East SPC:	169640.096	2158305.404
Ind. West SPC:	2158900.615	3184322.586
UTM 16N:	14954566.115	1848971.906

Geodetic Coordinates:

Latitude	Longitude
41°10'20.30240"N	86°14'31.86915"W

Orthometric Height:

NAVD 1988
894.664

Ground Photo:

Target ID: 101

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 102

Coordinate Values:

	Northing	Easting
Ind. East SPC:	220754.037	2158372.467
Ind. West SPC:	2159799.726	3235431.494
UTM 16N:	14955415.958	1900062.243

Geodetic Coordinates:

Latitude	Longitude
41°10'23.76600"N	86°03'23.50443"W

Orthometric Height:

NAVD 1988
811.267

Ground Photo:

Target ID: 102

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 103

Coordinate Values:

	Northing	Easting
Ind. East SPC:	288203.961	2147836.515
Ind. West SPC:	2150361.792	3303051.265
UTM 16N:	14945916.923	1967647.062

Geodetic Coordinates:

Latitude	Longitude
41°08'41.71129"N	85°48'41.26322"W

Orthometric Height:

NAVD 1988
857.164

Ground Photo:

Target ID: 103

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 103A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	286758.55	2147209.733
Ind. West SPC:	2149711.488	3301616.044
UTM 16N:	14945268.243	1966211.772

Geodetic Coordinates:

Latitude	Longitude
41°08'35.49409"N	85°49'00.14201"W

Orthometric Height:

NAVD 1988
877.588

Ground Photo:

Target ID: 103A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 104

Coordinate Values:

	Northing	Easting
Ind. East SPC:	334018.133	2162478.731
Ind. West SPC:	2165750.184	3348628.286
UTM 16N:	14961255.741	2013221.209

Geodetic Coordinates:

Latitude	Longitude
41°11'06.70656"N	85°38'42.37872"W

Orthometric Height:

NAVD 1988
955.772

Ground Photo:

Target ID: 104

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 105

Coordinate Values:

	Northing	Easting
Ind. East SPC:	-12971.106	2091653.339
Ind. West SPC:	2089293.864	3002827.211
UTM 16N:	14885158.803	1667477.926

Geodetic Coordinates:

Latitude	Longitude
40°59'03.07438"N	86°54'07.03272"W

Orthometric Height:

NAVD 1988
689.01

Ground Photo:

Target ID: 105

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 105A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	-12956.697	2091640.714
Ind. West SPC:	2089281.476	3002841.82
UTM 16N:	14885146.406	1667492.518

Geodetic Coordinates:

Latitude	Longitude
40°59'02.95167"N	86°54'06.84256"W

Orthometric Height:

NAVD 1988
689.63

Ground Photo:

Target ID: 105A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 106

Coordinate Values:

	Northing	Easting
Ind. East SPC:	68203.581	2116514.807
Ind. West SPC:	2115466.905	3083580.178
UTM 16N:	14911245.065	1748225.872

Geodetic Coordinates:

Latitude	Longitude
41°03'18.68700"N	86°36'32.24717"W

Orthometric Height:

NAVD 1988
710.449

Ground Photo:

Target ID: 106

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 107

Coordinate Values:

	Northing	Easting
Ind. East SPC:	107927.135	2121311.913
Ind. West SPC:	2120908.333	3123218.997
UTM 16N:	14916646.595	1787855.039

Geodetic Coordinates:

Latitude	Longitude
41°04'09.99741"N	86°27'54.35563"W

Orthometric Height:

NAVD 1988
742.582

Ground Photo:

Target ID: 107

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 107A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	108055.796	2121324.757
Ind. West SPC:	2120923.265	3123347.431
UTM 16N:	14916661.399	1787983.438

Geodetic Coordinates:

Latitude	Longitude
41°04'10.13594"N	86°27'52.67751"W

Orthometric Height:

NAVD 1988
741.316

Ground Photo:

Target ID: 107A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 108

Coordinate Values:

	Northing	Easting
Ind. East SPC:	171026.413	2117784.845
Ind. West SPC:	2118406.6	3186367.619
UTM 16N:	14914085.488	1850977.444

Geodetic Coordinates:

Latitude	Longitude
41°03'40.03871"N	86°14'10.27854"W

Orthometric Height:

NAVD 1988
776.066

Ground Photo:

Target ID: 108

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 108A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	171021.559	2117859.168
Ind. West SPC:	2118480.837	3186361.559
UTM 16N:	14914159.703	1850971.457

Geodetic Coordinates:

Latitude	Longitude
41°03'40.77274"N	86°14'10.34824"W

Orthometric Height:

NAVD 1988
776.132

Ground Photo:

Target ID: 108A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 109

Coordinate Values:

	Northing	Easting
Ind. East SPC:	228969.034	2110640.07
Ind. West SPC:	2112203.278	3244422.108
UTM 16N:	14907829.086	1909003.918

Geodetic Coordinates:

Latitude	Longitude
41°02'32.49215"N	86°01'33.50859"W

Orthometric Height:

NAVD 1988
857.088

Ground Photo:

Target ID: 109

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 109A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	228930.761	2111074.171
Ind. West SPC:	2112636.737	3244376.787
UTM 16N:	14908262.422	1908959.029

Geodetic Coordinates:

Latitude	Longitude
41°02'36.77980"N	86°01'34.03141"W

Orthometric Height:

NAVD 1988
852.342

Ground Photo:

Target ID: 109A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 110

Coordinate Values:

	Northing	Easting
Ind. East SPC:	-19159.888	2065591.187
Ind. West SPC:	2063138.318	2997062.347
UTM 16N:	14859018.408	1661690.268

Geodetic Coordinates:

Latitude	Longitude
40°54'44.74274"N	86°55'22.82713"W

Orthometric Height:

NAVD 1988
675.884

Ground Photo:

Target ID: 110

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 110A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	-19170.275	2065612.282
Ind. West SPC:	2063159.24	2997051.622
UTM 16N:	14859039.332	1661679.567

Geodetic Coordinates:

Latitude	Longitude
40°54'44.94966"N	86°55'22.96633"W

Orthometric Height:

NAVD 1988
676.291

Ground Photo:

Target ID: 110A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 111

Coordinate Values:

	Northing	Easting
Ind. East SPC:	194289.537	2059346.293
Ind. West SPC:	2060350.341	3210576.357
UTM 16N:	14856028.183	1875121.629

Geodetic Coordinates:

Latitude	Longitude
40°54'04.01842"N	86°09'02.37830"W

Orthometric Height:

NAVD 1988
828.534

Ground Photo:

Target ID: 111

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 111A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	194270.315	2059069.612
Ind. West SPC:	2060073.37	3210561.616
UTM 16N:	14855751.332	1875106.629

Geodetic Coordinates:

Latitude	Longitude
40°54'01.28355"N	86°09'02.60869"W

Orthometric Height:

NAVD 1988
827.952

Ground Photo:

Target ID: 111A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 112

Coordinate Values:

	Northing	Easting
Ind. East SPC:	215117.352	2272465.509
Ind. West SPC:	2273794.074	3227932.027
UTM 16N:	15069374.041	1892675.104

Geodetic Coordinates:

Latitude	Longitude
41°29'10.76441"N	86°04'44.30150"W

Orthometric Height:

NAVD 1988
833.746

Ground Photo:

Target ID: 112

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC61

Coordinate Values:

	Northing	Easting
Ind. East SPC:	131359.065	2347302.303
Ind. West SPC:	2347248.686	3142953.872
UTM 16N:	15142882.844	1807800.04

Geodetic Coordinates:

Latitude	Longitude
41°41'24.68229"N	86°23'12.97157"W

Orthometric Height:

NAVD 1988
728.365

Ground Photo:

Target ID: QC61

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC61A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	131442.288	2347306.138
Ind. West SPC:	2347253.89	3143037.021
UTM 16N:	15142887.965	1807883.163

Geodetic Coordinates:

Latitude	Longitude
41°41'24.72705"N	86°23'11.87514"W

Orthometric Height:

NAVD 1988
729.215

Ground Photo:

Target ID: QC61A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC62

Coordinate Values:

	Northing	Easting
Ind. East SPC:	181065.268	2353620.639
Ind. West SPC:	2354383.856	3192550.374
UTM 16N:	15149967.345	1857384.701

Geodetic Coordinates:

Latitude	Longitude
41°42'30.69037"N	86°12'18.36018"W

Orthometric Height:

NAVD 1988
740.515

Ground Photo:

Target ID: QC62

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC63

Coordinate Values:

	Northing	Easting
Ind. East SPC:	226723.509	2348663.396
Ind. West SPC:	2350178.047	3238286.779
UTM 16N:	15145718.892	1903099.639

Geodetic Coordinates:

Latitude	Longitude
41°41'44.09758"N	86°02'16.11220"W

Orthometric Height:

NAVD 1988
757.907

Ground Photo:

Target ID: QC63

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC64

Coordinate Values:

	Northing	Easting
Ind. East SPC:	287054.904	2358801.129
Ind. West SPC:	2361308.159	3298449.727
UTM 16N:	15156786.527	1963250.306

Geodetic Coordinates:

Latitude	Longitude
41°43'26.05927"N	85°49'01.06930"W

Orthometric Height:

NAVD 1988
753.296

Ground Photo:

Target ID: QC64

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC65

Coordinate Values:

	Northing	Easting
Ind. East SPC:	162007.643	2289609.755
Ind. West SPC:	2290066.522	3174545.935
UTM 16N:	15085691.758	1839324.964

Geodetic Coordinates:

Latitude	Longitude
41°31'57.05213"N	86°16'23.67840"W

Orthometric Height:

NAVD 1988
855.072

Ground Photo:

Target ID: QC65

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC66

Coordinate Values:

	Northing	Easting
Ind. East SPC:	294485.941	2285610.086
Ind. West SPC:	2288238.924	3307083.056
UTM 16N:	15083737.08	1971809.728

Geodetic Coordinates:

Latitude	Longitude
41°31'23.05864"N	85°47'21.69857"W

Orthometric Height:

NAVD 1988
822.992

Ground Photo:

Target ID: QC66

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC67

Coordinate Values:

	Northing	Easting
Ind. East SPC:	22827.598	2176575.206
Ind. West SPC:	2174776.648	3037236.873
UTM 16N:	14970577.05	1701956.552

Geodetic Coordinates:

Latitude	Longitude
41°13'06.75056"N	86°46'34.43533"W

Orthometric Height:

NAVD 1988
699.971

Ground Photo:

Target ID: QC67

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC68

Coordinate Values:

	Northing	Easting
Ind. East SPC:	84979.297	2238064.281
Ind. West SPC:	2237267.434	3098372.455
UTM 16N:	15032985.872	1763129.319

Geodetic Coordinates:

Latitude	Longitude
41°23'21.25492"N	86°33'09.46379"W

Orthometric Height:

NAVD 1988
707.312

Ground Photo:

Target ID: QC68

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC69

Coordinate Values:

	Northing	Easting
Ind. East SPC:	208511.026	2178889.154
Ind. West SPC:	2180115.766	3222855.041
UTM 16N:	14975736.3	1887510.044

Geodetic Coordinates:

Latitude	Longitude
41°13'45.90474"N	86°06'04.93825"W

Orthometric Height:

NAVD 1988
781.736

Ground Photo:

Target ID: QC69

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC69A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	208497.52	2179259.22
Ind. West SPC:	2180485.588	3222835.505
UTM 16N:	14976105.999	1887490.87

Geodetic Coordinates:

Latitude	Longitude
41°13'49.56042"N	86°06'05.13923"W

Orthometric Height:

NAVD 1988
783.649

Ground Photo:

Target ID: QC69A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: QC70

Coordinate Values:

	Northing	Easting
Ind. East SPC:	150236.594	2243795.276
Ind. West SPC:	2244064.545	3163526.391
UTM 16N:	15039717.782	1828265.29

Geodetic Coordinates:

Latitude	Longitude
41°24'23.58213"N	86°18'53.92931"W

Orthometric Height:

NAVD 1988
823.124

Ground Photo:

Target ID: QC70

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC70A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	150248.669	2243761.409
Ind. West SPC:	2244030.88	3163539.018
UTM 16N:	15039684.117	1828277.88

Geodetic Coordinates:

Latitude	Longitude
41°24'23.24843"N	86°18'53.76752"W

Orthometric Height:

NAVD 1988
822.343

Ground Photo:

Target ID: QC70A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC71

Coordinate Values:

	Northing	Easting
Ind. East SPC:	254309.254	2226914.664
Ind. West SPC:	2228886.449	3267867.436
UTM 16N:	15024445.154	1932552.047

Geodetic Coordinates:

Latitude	Longitude
41°21'42.24221"N	85°56'07.49383"W

Orthometric Height:

NAVD 1988
832.073

Ground Photo:

Target ID: QC71

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC71A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	254326.399	2226895.826
Ind. West SPC:	2228867.891	3267884.888
UTM 16N:	15024426.586	1932569.475

Geodetic Coordinates:

Latitude	Longitude
41°21'42.05662"N	85°56'07.26824"W

Orthometric Height:

NAVD 1988
832.025

Ground Photo:

Target ID: QC71A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC72

Coordinate Values:

	Northing	Easting
Ind. East SPC:	294556.705	2229039.709
Ind. West SPC:	2231669.216	3308079.821
UTM 16N:	15027188.206	1972751.655

Geodetic Coordinates:

Latitude	Longitude
41°22'04.13488"N	85°47'19.71882"W

Orthometric Height:

NAVD 1988
887.471

Ground Photo:

Target ID: QC72

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC72A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	294998.254	2229057.832
Ind. West SPC:	2231694.556	3308521.079
UTM 16N:	15027213.112	1973192.767

Geodetic Coordinates:

Latitude	Longitude
41°22'04.32005"N	85°47'13.92802"W

Orthometric Height:

NAVD 1988
889.28

Ground Photo:

Target ID: QC72A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC73

Coordinate Values:

	Northing	Easting
Ind. East SPC:	265903.174	2123230.601
Ind. West SPC:	2125393.351	3281150.653
UTM 16N:	14920979.024	1945730.996

Geodetic Coordinates:

Latitude	Longitude
41°04'38.11910"N	85°53'31.92258"W

Orthometric Height:

NAVD 1988
905.528

Ground Photo:

Target ID: QC73

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC74

Coordinate Values:

	Northing	Easting
Ind. East SPC:	-10252.27	2126774.048
Ind. West SPC:	2124449.547	3004975.315
UTM 16N:	14920299.451	1669658.792

Geodetic Coordinates:

Latitude	Longitude
41°04'50.39727"N	86°53'38.02830"W

Orthometric Height:

NAVD 1988
687.317

Ground Photo:

Target ID: QC74

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC75

Coordinate Values:

	Northing	Easting
Ind. East SPC:	-7060.41	2091487.179
Ind. West SPC:	2089223.587	3008739.07
UTM 16N:	14885082.915	1673387.534

Geodetic Coordinates:

Latitude	Longitude
40°59'02.25154"N	86°52'49.94931"W

Orthometric Height:

NAVD 1988
682.409

Ground Photo:

Target ID: QC75

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC76

Coordinate Values:

	Northing	Easting
Ind. East SPC:	76901.198	2104183.661
Ind. West SPC:	2103279.235	3092476.352
UTM 16N:	14899053.458	1757107.086

Geodetic Coordinates:

Latitude	Longitude
41°01'17.77245"N	86°34'37.05093"W

Orthometric Height:

NAVD 1988
705.397

Ground Photo:

Target ID: QC76

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC76A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	77233.137	2103493.123
Ind. West SPC:	2102594.208	3092819.436
UTM 16N:	14898368.36	1757449.388

Geodetic Coordinates:

Latitude	Longitude
41°01'10.98433"N	86°34'32.62699"W

Orthometric Height:

NAVD 1988
709.422

Ground Photo:

Target ID: QC76A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC77

Coordinate Values:

	Northing	Easting
Ind. East SPC:	127332.821	2178189.703
Ind. West SPC:	2178093.526	3141696.506
UTM 16N:	14973792.601	1806380.309

Geodetic Coordinates:

Latitude	Longitude
41°13'33.62233"N	86°23'47.23952"W

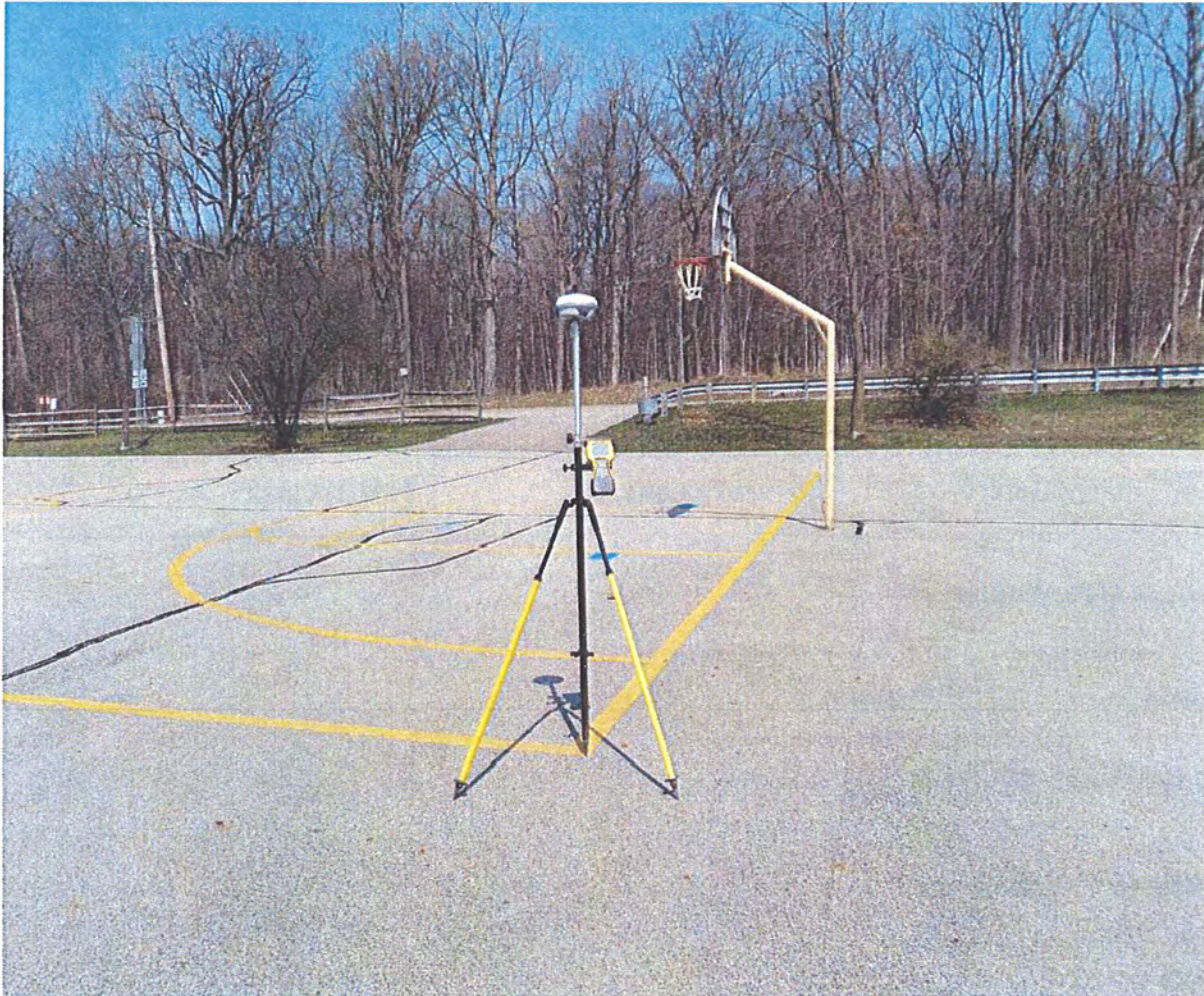
Orthometric Height:

NAVD 1988
742.59

Ground Photo:

Target ID: QC77

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC78

Coordinate Values:

	Northing	Easting
Ind. East SPC:	122701.311	2102604.129
Ind. West SPC:	2102443.167	3138294.722
UTM 16N:	14898173.979	1802907.465

Geodetic Coordinates:

Latitude	Longitude
41°01'06.45528"N	86°24'39.39701"W

Orthometric Height:

NAVD 1988
780.363

Ground Photo:

Target ID: QC78

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: QC79

Coordinate Values:

	Northing	Easting
Ind. East SPC:	180922.667	2118154.284
Ind. West SPC:	2118936.739	3196256.949
UTM 16N:	14914605.98	1860863.53

Geodetic Coordinates:

Latitude	Longitude
41°03'44.30726"N	86°12'01.12426"W

Orthometric Height:

NAVD 1988
780.27

Ground Photo:

Target ID: QC79

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 1

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: QC80

Coordinate Values:

	Northing	Easting
Ind. East SPC:	317026.171	2167921.497
Ind. West SPC:	2170916.396	3331547.012
UTM 16N:	14966436.315	1996151.494

Geodetic Coordinates:

Latitude	Longitude
41°12'00.46651"N	85°42'24.64957"W

Orthometric Height:

NAVD 1988
918.485

Ground Photo:

Target ID: QC80

[Link to Picture](#)



2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix E

Block 1 Field Sheets

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-4-2011
Weather 40° CLOUDY Time 11 AM
File ORTHO - SM - 4-4-11

Photo ID # 76
Description TIP OF PAINTED ARROW

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

219

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

220

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-6-2011
Weather 55° cloudy Time 1 pm
File ORTHO-4-7-11

Photo ID # 77
Description COR. OF CONC DRIVE @ B/CURB

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

260

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

261

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-6-2011
Weather 55° CLOUDY Time 1:15
File ORTHO-SM-4-7-11

Photo ID # 77A
Description ASPH. ENTRANCE TO SUBDIVISION

△ N: △ E: △ Z: Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

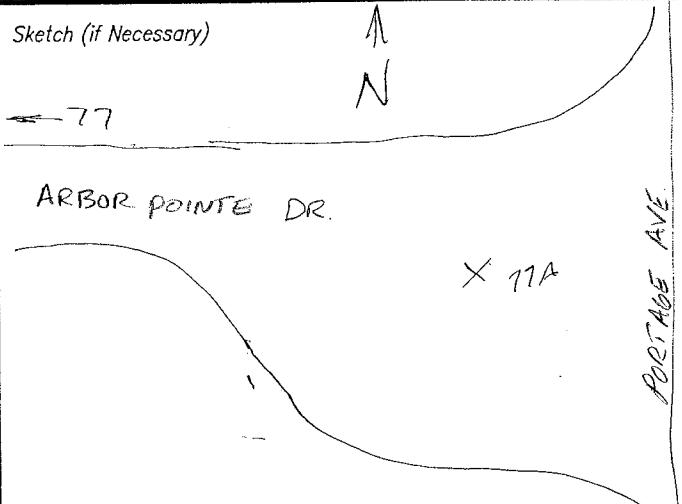
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Puloski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

Sketch (if Necessary)



Picture of Set Up

Picture # _____

262

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-6-2011
Weather 50° CLOUDY Time 11 AM
File ORTHO-SM-4-6-11

Photo ID # 78
Description COR. OF CONC. DRIVE @ ASPH

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.0m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

257

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Storke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

258

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-6-2011
Weather 50° CLOUDY Time 11:15
File ORTHO-SM-4-6-11

Photo ID # 78A
Description CENTER CONC-DRIVE
SAME DRIVE AS 78

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

Block 1 2 3 4

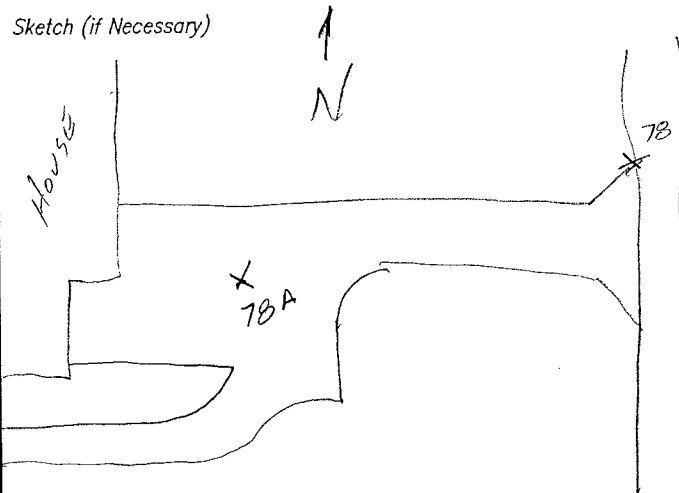
County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # _____

259

Sketch (if Necessary)



Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-5-2011
Weather 48° SUNNY Time 1:30
File ORTHO-SM-4-5-11

Photo ID # 79
Description COR. OFF R/W DRIVE COR. @ ASPH

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Close Up

Picture # _____

239

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	<u>Elkhart</u>
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

240

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-5-2011
Weather 43° SUNNY Time 2 PM
File ORTHO-SM-4-5-11

Photo ID # 79 B
Description _____

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5100

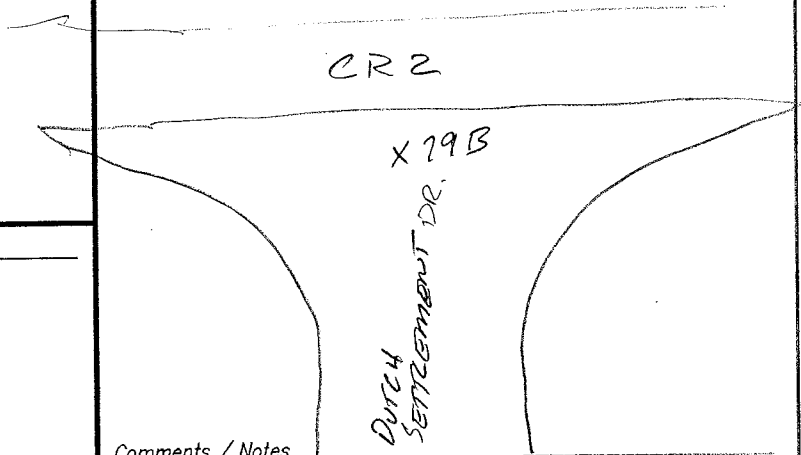
Close Up

Picture # _____

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	<u>Elkhart</u>
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

241

Comments / Notes

675' E EAST OF 79

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-5-2011
Weather 45° SUNNY Time 11:30
File ORTHO-SM-4-5-11

Photo ID # 80
Description COR. CONC. DRIVE @ ASPH.

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

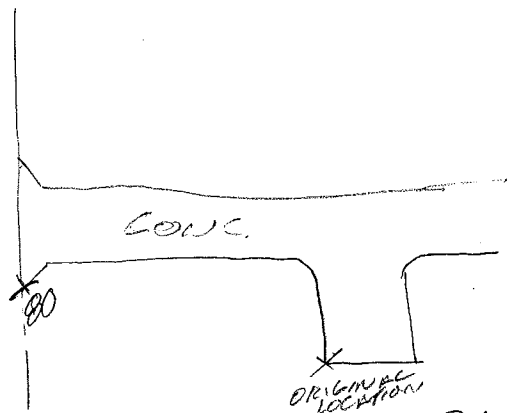
Picture # _____

234

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	<u>Elkhart</u>
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	<u>MICHIGAN</u>

Sketch (if Necessary)



Picture of Set Up

Picture # _____

235

Comments / Notes MOVED TO COR OF CONC @ ASPH
DUE TO TREE GROWN OVER ORIGINAL LOCATION
UNABLE TO GET GOOD PRECISIONS

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-4-2011
Weather 55° CLOUDY Time 9 AM
File ORTHO-SM-4-4-11

Photo ID # 21
Description COR CONC DRIVE @ HIGHL ROAD

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

215

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>LAPORTE</u>
	Jahnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

216

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-4-2011
Weather 40° CLOUDY Time 9:30 AM
File ORTHO-5M-4-4-11

Photo ID # 818
Description Q ROAD @ Q DRIVE
SAME DRIVE USED FOR 81

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>LAPORTE</u>
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

217

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-6-2011

Weather 55° CLOUDY Time 4:30

File ORTHO-SM-4-7-11

Photo ID # 82

Description RELOCATED TO ASPH DRIVE @ CONC. DRIVE

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Close Up

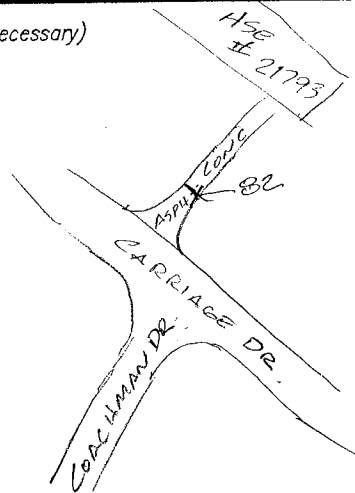
Picture # _____

269

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

270

Comments / Notes MOVED FROM ORIGINAL LOCATION DUE TO UNEVEN OVERLAY UNABLE TO ESTABLISH COR.

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-6-2011

Weather 55° CLOUDY Time 4:45

File ORTHO-SM-47-11

Photo ID # B2A

Description ASPH. INTERSECTION
CARRIAGE DR. & COACHMAN DR.

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

5700

Close Up

Picture # _____

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

271

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-4-2011
Weather 45° CLOUDY Time 2:30
File ORTHO-SM-4-4-11

Photo ID # B3
Description COR. OF COUN. DRW. @ ASPH DRIVE

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

226

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	<u>Elkhart</u>
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

227

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-5-2011

Weather 50° Pt SUNNY Time 3:15

File ORTHO-SM-4-5-11

Photo ID # 84

Description _____

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

5700

Block (1) 2 3 4

Close Up

Picture # _____

244

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	<u>Elkhart</u>
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

245

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-5-2011

Weather 40° SUNNY Time 10:30

File ORTHO-SM-4-5-11

Photo ID # 85

Description MOVED TO NW COR. OF TURNAROUND

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block (1) 2 3 4

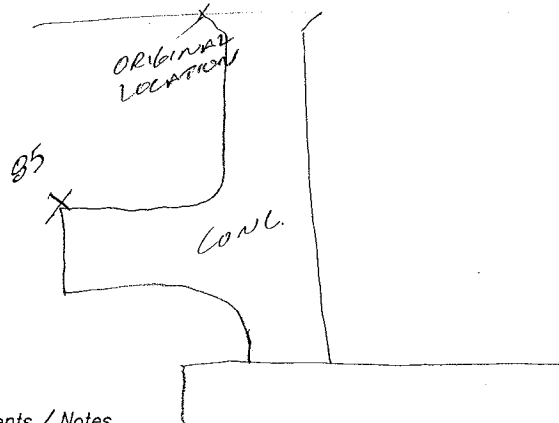
Close Up

Picture # _____

231

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>LAGRANGE</u>
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

232

Comments / Notes
MOVED TO NW COR. OF CONC. TURNAROUND
ORIGINAL LOCATION HAS BEEN BROKEN UP

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-5-2011
Weather 40° SUNNY Time 10:45
File ORTHO-3M-4-5-11

Photo ID # 85 B
Description CENTER OF CONC. DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

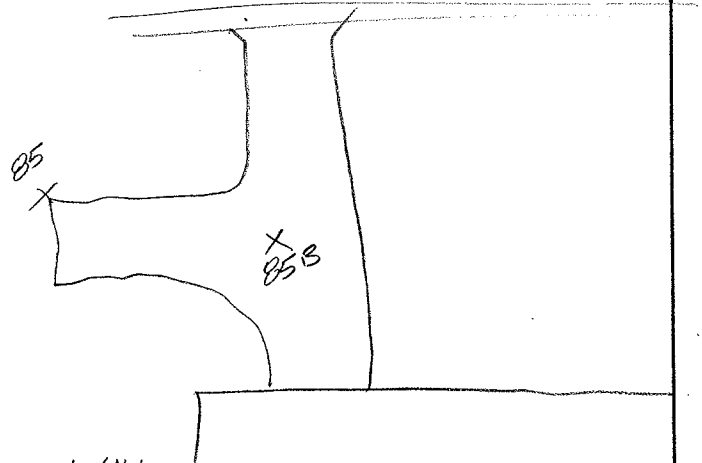
Close Up

Picture # _____

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>LAGRANGE</u>
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

233

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-7-2011

Weather 40° CLOUDY Time 8:45

File ORTHO-SM-4-7-11

Photo ID # B6

Description COR. OF CONC DRIVE

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Block (1) 2 3 4

Close Up

Picture # _____

274

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	<u>Marshall</u>
	Lawrence	Clinton	<u>Starke</u>
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

275

Comments / Notes LOT OF TIME SPENT
INITIALIZING EACH TIME

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-7-2011
Weather 40° CLOUDY Time 8 AM
File ORTHO-SM-4-7-11

Photo ID # 87
Description COR. PAINTED PARKING SPACE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

272

Sketch (if Necessary)

Picture of Set Up

Picture # _____

273

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-6-2011
Weather 50° CLOUDY Time 9:30
File ORTHO-SM-4-6-11

Photo ID # 88
Description COR CONC. DRIVE

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. ___

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 4

Close Up

Picture # _____

253

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

254

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-6-2011
Weather 40° CLOUDY Time 8:15
File ORTHO-SM-4-6-11

Photo ID # 89
Description PAINTED X RR CROSSING

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

250

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

251

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-5-2011
Weather 50° SUNNY Time 5:30
File ORTHO-SM-4-6-11

Photo ID # 90
Description MOVED 700' ± SOUTHEASTERLY
TO B-BALL COURT

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

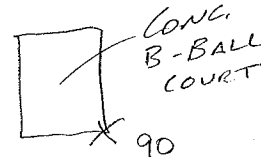
Picture # _____

247

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

248

Comments / Notes ORIGINAL POSITION HAS
BEEN PATCHED WITH CONC. AND NO LONGER
HAS WELL DEFINED CORNERS.
MOVED 700' SOUTHEASTERLY TO B-BALL
COURT SOUTH & EAST OF HOUSE

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-5-2011
Weather 50° SUNNY Time 5:45
File ORTHO-SM-4-6-11

Photo ID # 90 B
Description CENTER OF B. BALL COURT (CONC)
SAME COURT AS 90

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block (1) 2 3 4

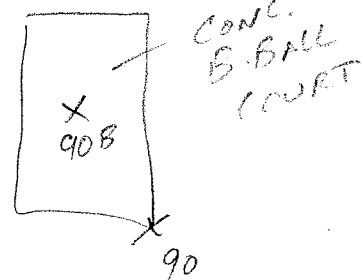
County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

249

Sketch (if Necessary)



Picture of Set Up

Picture # _____

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-14-11

Weather 50° SUNNY Time 9:30

File ORTHO-Sni-4-14-11

Photo ID # 91

Description COR. ASPH DRIVE

Δ N: Δ E: Δ Z: Ant. Ht. 1.04

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Close Up

Picture # _____

377

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>LAPORTE</u>
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

378

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-14-11
Weather 50° SUNNY Time 10 AM
File ORTHO-SM-4-14-11

Photo ID # 91A
Description MIDDLE OF ASPH DRIVE
1st PROPERTY NORTH OF 91

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 118 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

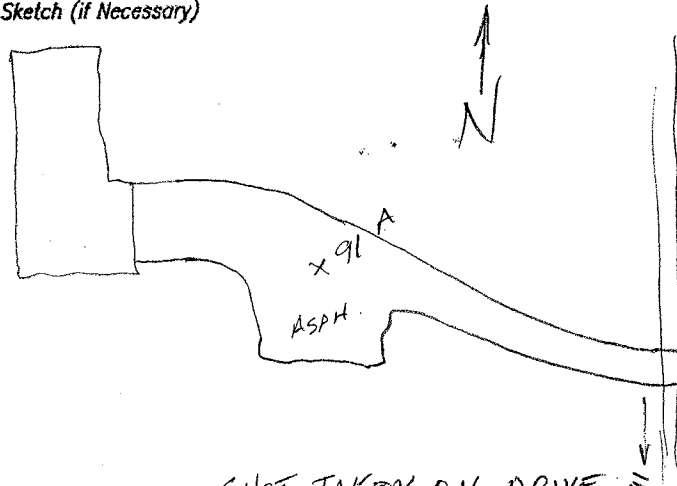
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>LAFORTE</u>
	Johnson	Miami	

Close Up

Picture # _____

Sketch (if Necessary)



Picture of Set Up

Picture # _____

379

Comments/Notes SHOT TAKEN ON DRIVE 91
LOCATED ON NEXT PROPERTY NORTH
OF 91

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MUEPLY Date 4-14-2011
Weather 50° SUNNY Time 10:45
File ORTHO-SM-4-14-11

Photo ID # 92
Description COR-OF-ASPH DR.

△ N: △ E: △ Z: Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Close Up

Picture # _____

382

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	<u>Marshall</u>
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

383

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-14-2011
Weather 60° SUNNY Time 11:15
File ORTHO-SM-4-14-11

Photo ID # 92A
Description CENTER ASPH DRIVE
2ND PROPERTY EAST OF 92

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

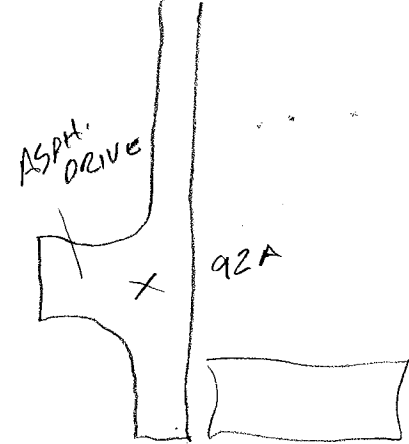
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	<u>Starke</u>
	Bartholomew	Howard	Eikhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

Sketch (if Necessary)



Picture of Set Up

Picture # _____

384

Comments / Notes 2ND PROPERTY EAST
OF 92

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-11
Weather 50° SUNNY Time 11 AM
File ORTHO-SM-4-13-11

Photo ID # 93
Description COR CONC. DRIVE @ ASPH

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

352

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	<u>Marshall</u>
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

353

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEN MURPHY Date 4-13-11
Weather 55° SUNNY Time 11:15
File ORTHO-SM-4-13-11

Photo ID # 93A
Description CENTER OF ASPH. DRIVE
1ST DRIVE SW OF 93

△ N: △ E: △ Z: Ant. Ht. 1.04
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

354

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	<u>Marshall</u>
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carrall	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-7-2011
Weather 40° CLOUDY Time 10 AM
File ORTHO-SM-4-7-11

Photo ID # 94
Description COR. OF CONC. SIDEWALK

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

276

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

277

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-11-2011

Weather 50° Cloudy Time 4:15

File ORTHO-SM-4-11-11

Photo ID # 95

Description CENTER OF CATLIN BASIN

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

5700

Block 1 2 3 4

Close Up

Picture # _____

325

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

326

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-11-2011
Weather 50° Cloudy Time 2:30
File ORTHO-SM-4-11-11

Photo ID # 96
Description COR. CONC. SIDEWALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Close Up

Picture # _____

322

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

323

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-15-2011
Weather 50° WINDY Time 11:45
File ORTHO-SM-4-15-11

Photo ID # 97
Description CON. CONC. DRIVE @ GRAVEL

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Close Up

Picture # _____

399

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>PORTER</u>
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

400

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-15-2011
Weather 50° WINDY Time 12:45
File ORTHO-5M-4-15-11

Photo ID # 98
Description: MOVED TO ENTRANCE

Δ N: Δ E: Δ Z: Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Close Up

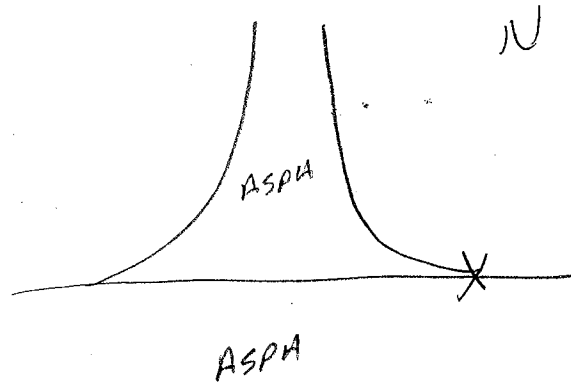
Picture # _____

402

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>JASPER</u>
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

403

Comments / Notes ORIGINAL LOCATION HAS BEEN DEMOLISHED (ENTIRE FACILITY)
MOVED TO ENTRANCE OF SAME FACILITY

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-14-2011

Weather 60° SUNNY Time 1:30

File ORTHO-SM-4-14-11

Photo ID # 99

Description Col. Lane Drive

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.9m

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

388

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	<u>Marshall</u>
	Lawrence	Clinton	<u>Starke</u>
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

389

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-2011

Weather 65° SUNNY Time 4:00

File ORTHO-SM-4-13-11

Photo ID # 100

Description COR. CONC. DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 4

Close Up

Picture # _____

367

County	Harrison	Morgan	Cass
	Crawford	Marion	<u>Fulton</u>
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Corrall	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

368

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-2011
Weather 65° SUNNY Time 4:15
File ORTHO-SM-4-13-11

Photo ID # 100A
Description: MIDDLE OF CONC. DRIVE

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

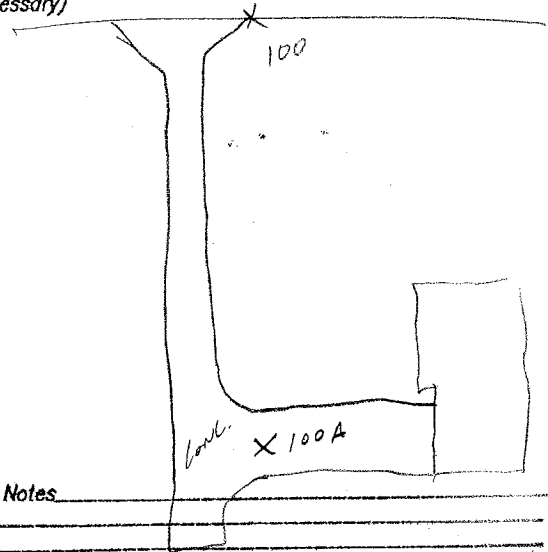
Close Up

Picture # _____

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	<u>Fulton</u>
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

Comments / Notes

For Office Only:

369

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-2011
Weather 50° SUNNY Time 10:15
File ORTHO-4-13-11

Photo ID # 101
Description COR. OF PAINTED STOP BAR

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

350

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	<u>Fulton</u>
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

351

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-12-2011

Weather 50° SUNNY Time 10:45

File ORTHO-SM-4-12-11

Photo ID # 102

Description COR. OF CONC. DRIVE

Δ N: ___ Δ E: ___ Δ Z: ___ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

5700

Close Up

Picture # _____

335

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	<u>Marshall</u>
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

336

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-12-2011
Weather 40° SUNNY Time 8:45
File ORTHO-SM-4-12-11

Photo ID # 103
Description COR. CONC. DRIVE @ ASPH

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.84
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
± 5700 IV

Close Up

Picture # _____

331

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

332

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-12-11
Weather 45° SUNNY Time 9:30
File DRT40-SM-4-12-11

Photo ID # 103A
Description CENTER OF ASPA DRIVE

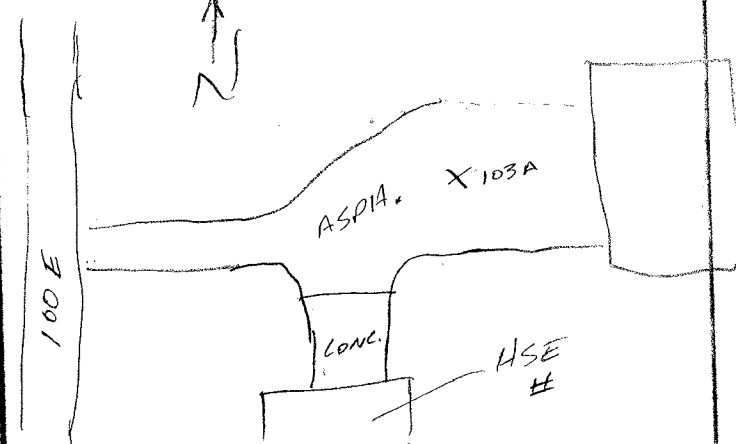
Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up Picture # _____

Block 1 2 3 4

- | | | | |
|--------|-------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Sketch (if Necessary)



Picture of Set Up Picture # _____

333

Comments / Notes 1500' ± SW OF 103
600' ± SOUTH OF 600'S

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-12-2011
Weather 40° Sunny Time 8:30
File ORTHO-SM-4-12-11

Photo ID # 104
Description SE COR OF PAINT STRIP

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

329

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

330

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-15-2011
 Weather 50° W WINDY Time 1:30
 File ORTHO-SM-4-15-11

Photo ID # 105
 Description MOVED TO NW COR. CONC. DR V6

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 M
 InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
 MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Block 1 2 3 4

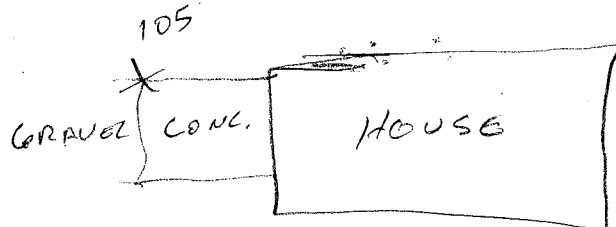
County	Harrison Crawford Washington Orange Jackson Lawrence Bartholomew Brown Monroe Johnson	Morgan Marion Hendricks Boone Tipton Clinton Howard Carroll Wabash Miami	Cass Fulton <u>Pulaski</u> Kosciusko Marshall Starke Elkhart St. Joseph Other _____
--------	--	---	---

Close Up

Picture # _____

406

Sketch (if Necessary)



Picture of Set Up

Picture # _____

407

Comments / Notes ORIGINAL LOCATION WAS
GRAVEL DRIVE MOVED TO NW COR.
OF CONC. DRIVE WEST OF HOUSE OF
SAME PROPERTY

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-15-2011
Weather 50° W wdy Time 2 PM
File ORTHO-SM-4-15-11

Photo ID # 105 A
Description MIDDLE OF CONC DRIVE
SAME DRIVE AS 105

Δ N: Δ E: Δ Z: Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Close Up

Picture # _____

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	<u>Pulaski</u>
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

408

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-15-2011

Weather 50° WINDY Time 10:15

File ORTH0-SM-4-15-11

Photo ID # 106

Description COR. OF CONC. DR. @ WALL

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

395

Block (1) 2 3 4

- | | | | |
|--------|-------------|-----------|----------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | <u>Pulaski</u> |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Sketch (if Necessary)

Picture of Set Up

Picture # _____

396

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-11

Weather 65° SUNNY Time 2:45

File ORTHO-SM-4-13-11

Photo ID # 107

Description MOVED TO COR. CONC. SIDEWALK
NEXT PROPERTY WEST

△ N: △ E: △ Z: Ant. Ht. 1.8 N

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Block 1 2 3 4

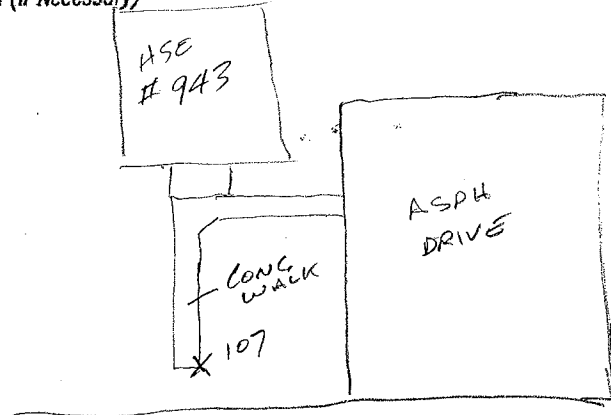
County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

364

Sketch (if Necessary)



Picture of Set Up

Picture # _____

365

Comments / Notes MOVED TO COR. OF WALK
BECAUSE ORIGINAL LOCATION WAS NOT
WELL DEFINED

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-11

Weather 65° SUNNY Time 3:15

File ORTHO-SM-4-13-11

Photo ID # 107A

Description: CENTER OF ASPH DRIVE
SAME DRIVE AS ORIGINAL LOCATION OF 107

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

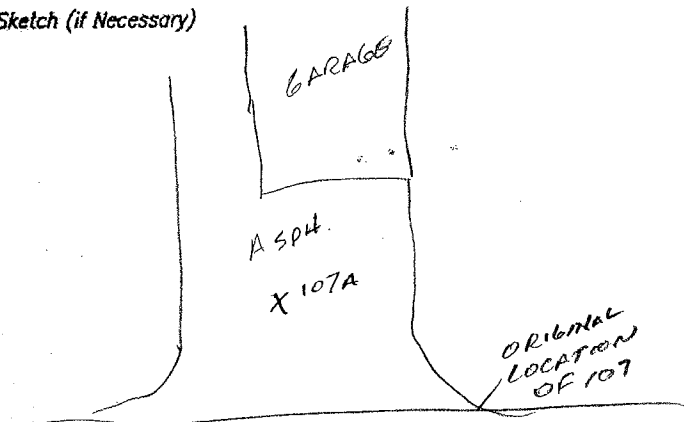
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	<u>Fulton</u>
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

Sketch (if Necessary)



Picture of Set Up

Picture # _____

306

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-12-2011
Weather 55° SUNNY Time 2:30
File ORTHO SM-4-1211

Photo ID # 108
Description CONC. DRIVE COR.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

345

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	<u>Fulton</u>
	Washington	Hendricks	Putaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

346

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-12-2011
Weather 55° SUNNY Time 2:45
File ORTHO-SM-4-12-11

Photo ID # 108 A
Description ASPA INTERSECTION

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 M

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 4

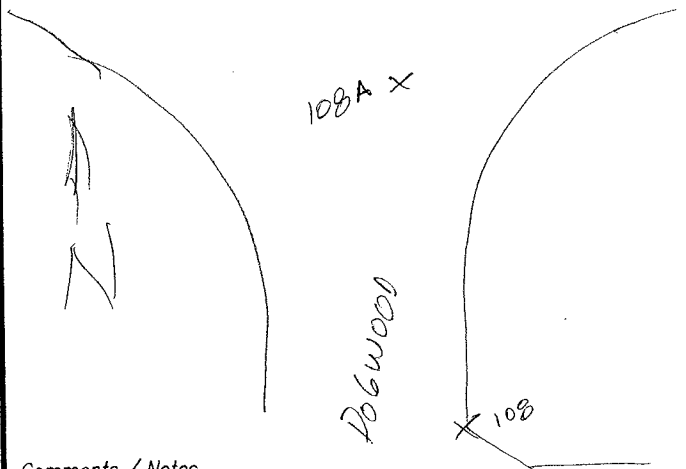
County	Harrison	Morgan	Cass
	Crawford	Marion	<u>Fulton</u>
	Washington	Hendricks	Putaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

Sketch (if Necessary)

13th ST



Comments / Notes _____

Picture of Set Up

Picture # _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-12-2011
Weather 50° SUNNY Time 12:15
File ORTHO-SM-4-12-11

Photo ID # 109
Description COR. OF CONC DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Block 1 2 3 4

Close Up

Picture # _____

338

County	Harrison	Morgan	Cass
	Crawford	Marion	<u>Fulton</u>
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

339

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-12-2011
Weather 50° SUNNY Time 12:30
File ORTHO-SM-4-12-11

Photo ID # 109A
Description _____

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.0M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

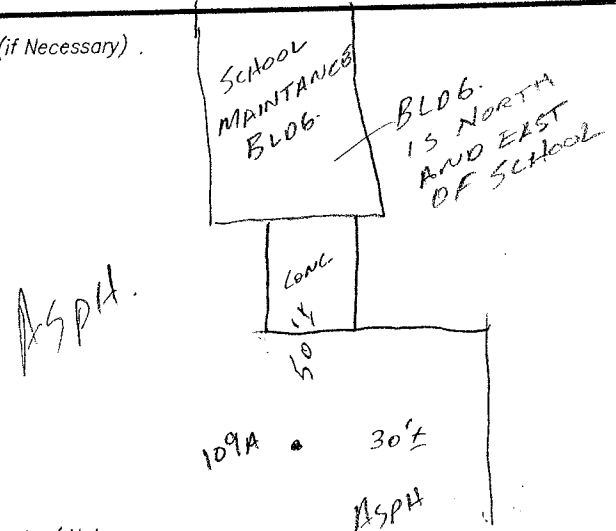
Close Up

Picture # _____

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	<u>Fulton</u>
	Washington	Hendricks	Putaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

340

Comments / Notes

425'± NORTH OF 109

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-15-2011

Weather 50° WINDY Time 3:30

File ORTHO-SM-4-15-11

Photo ID # 110

Description COR ASPH DRIVE

Δ N: Δ E: Δ Z: Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	<u>Pulaski</u>
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carrall	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

412

Sketch (if Necessary)

Picture of Set Up

Picture # _____

413

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-15-2011
Weather 50° WINDY Time 4 PM
File ORTHO-SM-4-15-11

Photo ID # 110A
Description CENTER OF ASPH. DRIVE

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

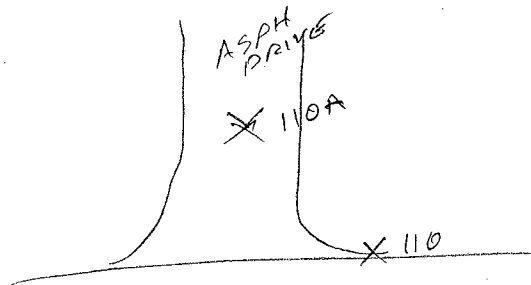
Close Up

Picture # _____

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	<u>Pulaski</u>
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

414

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-2011

Weather 60° SUNNY Time 1:30

File ORTHO-SM-4-13-11

Photo ID # 111

Description COR. ASPH. DRIVE

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block (1) 2 3 4

Close Up

Picture # _____

359

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>MIAMI</u>
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

360

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-11
Weather 65° SUNNY Time 1:45
File ORTHO-4-13-11

Photo ID # 111A
Description CENTER OF ASPH DRIVE
NEXT PROPERTY SOUTH OF 111

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.84
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>MIAMI</u>
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

361

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-6-2011
Weather 50° Cloudy Time 10:15
File ORTHO-SM-4-6-11

Photo ID # 112
Description NW COR PAINTED STOP BAR

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700 A

Close Up

Picture # _____

255

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciuska
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	<u>Elkhart</u>
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

256

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-4-2011
Weather 40° CLOUDY Time 11:30
File ORTHO-SM-4-4-11

Photo ID # QC61
Description MOVED FROM ORIGINAL LOCATION
DUE TO BROKEN CONC.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

221

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

222

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MUEPHTY Date 4-4-2011
Weather 40° CLOUDY Time 11:45
File ORTHO-SM-4-4-11

Photo ID # Q661B
Description ASPH. INTERSECTION

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

Block (1) 2 3 4

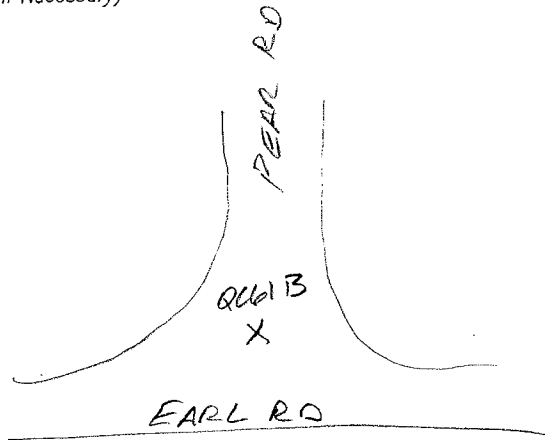
County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # _____

223

Sketch (if Necessary)



Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-6-2011
Weather 55° CLOUDY Time 3:30pm
File ORTHO-SM-4-7-11

Photo ID # QC62
Description COR. OF CONC. WALKS

Δ N: Δ E: Δ Z: Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type RG 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Close Up

Picture # _____

267

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

268

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-5-2011

Weather 50° Sunny Time 2:45

File ORTHO-SM-4-5-11

Photo ID # QC63

Description COR. OF CONC. P. LOT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	<u>Elkhart</u>
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

242

Sketch (if Necessary)

Picture of Set Up

Picture # _____

243

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-5-2011
Weather 45° Pt Sunny Time 12:45
File ORTHO-SM-4-5-11

Photo ID # RL64
Description PAINTED P-LOT COR.

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

237

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	<u>Elkhart</u>
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

238

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-4-2011
Weather 60° CLOUDY Time 7:40 AM
File ORTHO-SM-4-4-11

Photo ID # QC65
Description INSIDE PAINTED COR. OF NO PARKING AREA
INSIDE COR. BETTER DEFINED

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block (1) 2 3 4

Close Up

Picture # _____

212

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	<u>St. Joseph</u>
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

213

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-5-2011
Weather 40° SUNNY Time 9:45
File ORTHO-SM-4-5-11

Photo ID # QC166
Description Cor. cone.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

229

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	<u>Elkhart</u>
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

230

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-15-2011

Weather 50° WINDY Time 11 AM

File ORTHO-SM-4-15-11

Photo ID # Qc67

Description NORTH CORNER OF INTERSECTION

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 m

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block (1) 2 3 4

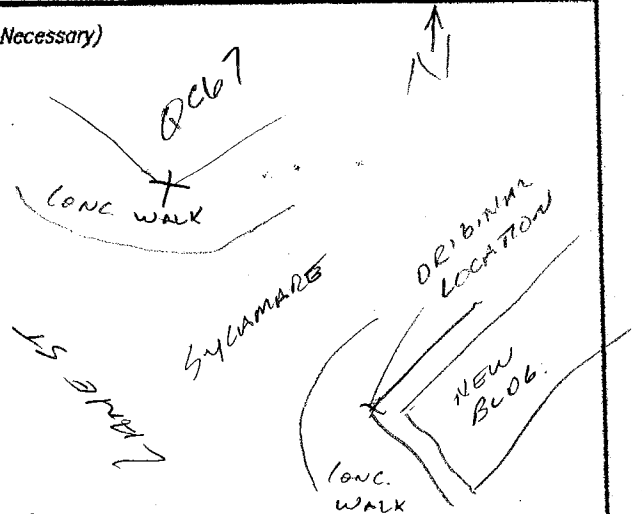
Close Up

Picture # _____

397

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	<u>Marshall</u>
	Lawrence	Clinton	<u>Starke</u>
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

398

Comments / Notes

MOVED TO NORTH COR. OF INTERSECTION. ORIGINAL LOCATION NOW HAS NEW BLDG. BUILT WITHIN A FEW FEET OF WALK

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-14-2011

Weather 45° sunny Time 8:30

File ORTHO-SM-4-14-11

Photo ID # 0068

Description COR. CONC. WALK

Δ N: Δ E: Δ Z: Ant. Ht. 1.84

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	<u>Marshall</u>
	Lawrence	Clinton	Starka
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

373

Sketch (if Necessary)

Picture of Set Up

Picture # _____

374

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-2011
Weather 68° Sunny Time 12:15
File ORTHO-SM-4-13-11

Photo ID # RC69
Description COR. CONC. DRIVE @ ASPH

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

356

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

357

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-2011

Weather 66° SUNNY Time 12:30

File ORTHO-SM-4-13-11

Photo ID # QC69A

Description ASPH INTERSECTION
375' E N. OF QC69

Δ N: Δ E: Δ Z: Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

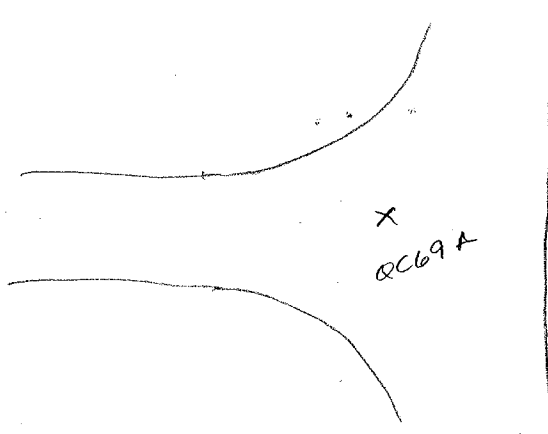
Close Up

Picture # _____

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	<u>Marshall</u>
	Lawrence	Clinton	Stark
	Bartholomew	Howard	Eldon
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

358

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-14-11
Weather 45° SUNNY Time 7:45
File ORTHO-SM-4-14-11

Photo ID # QCT0
Description COR CONC. DRIVE

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

370

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	<u>Marshall</u>
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

371

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-14-11
Weather 45° SUNNY Time 8 AM
File ORTHO-SM-4-14-11

Photo ID # QC70 A
Description CENTER OF CONC. DRIVE

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 M

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

5700

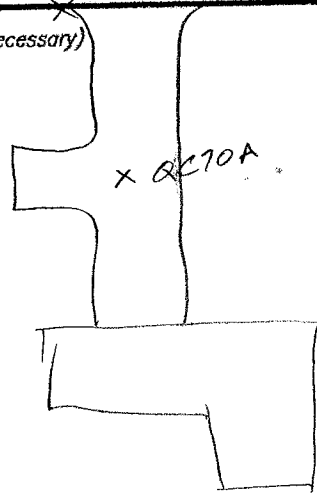
Close Up

Picture # _____

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carrall	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

372

Comments / Notes SAME DRIVE AS QC70

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-7-2011
Weather 40° CLOUDY Time 10:45
File ORTHO - SM - 4.7-11

Photo ID # QC71
Description COR. OF CONC. DRIVE

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

278

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

279

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-7-2011
Weather 40° CLOUDY Time 11 AM
File ORTHO-SM-4-7-11

Photo ID # QC71A
Description CENTER OF CONCL. DRIVE
SAME DRIVE AS QC71

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Block (1) 2 3 4

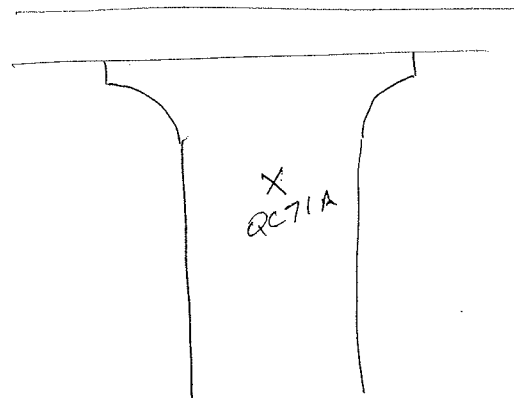
Close Up Picture # _____

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up Picture # _____

280

Sketch (if Necessary)



Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-11-2011

Weather 55° Sunny Time 1:30

File ORTHO-SAT-4-11-11

Photo ID # QC72

Description COR. CONC. DRIVE @ ASPH. RD

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Close Up

Picture # _____

319

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

320

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-11-2011
Weather 50° Pt Sunny Time 2:00
File ORTHO-SM-4-11-11

Photo ID # QC72A
Description ASPH. INTERSECTION
450' ± E. OF QC72

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Close Up

Picture # _____

321

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

300 E



Picture of Set Up

Picture # _____

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name _____ Date _____
Weather _____ Time _____
File _____

Photo ID # QC73
Description _____

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. _____

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

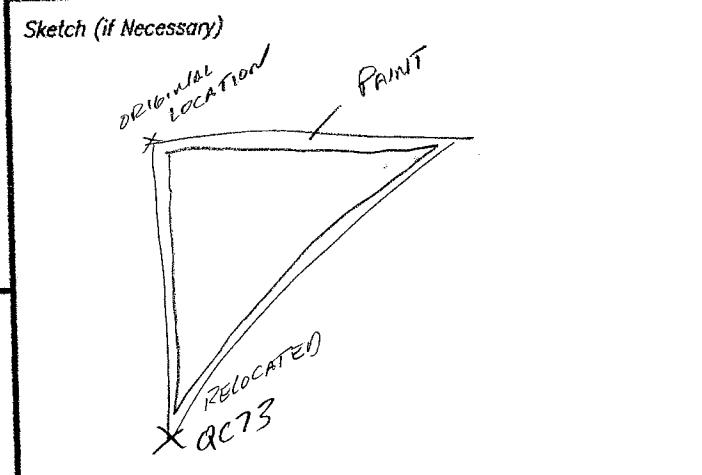
Close Up Picture # _____

341

Block	1	2	3	4
County	Harrison Crawford Washington Orange Jackson Lawrence Bartholomew Brown Monroe Johnson	Morgan Marion Hendricks Boone Tipton Clinton Howard Carroll Wabash Miami	Cass Fulton Pulaski Kosciusko Marshall Starke Elkhart St. Joseph Other _____	

Picture of Set Up Picture # _____

342



Comments / Notes MOVED TO SW COR. OF TRIANGLE
PAINT STRIPING DUE TO PAINT
MISSING ALONG NORTH LINE

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-15-2011

Weather 50° CLOUDY Time 1:15

File ORTHO-SM-4-15-11

Photo ID # QCT4

Description COR CONC. WALK @ ASPH DR

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	<u>Pulaski</u>
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

404

Sketch (if Necessary)

Picture of Set Up

Picture # _____

405

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-15-2011

Weather 50° WINDY Time 2:45

File ORTHO-SM-4-15-11

Photo ID # QCT5

Description CORS. OF CONC. WALKS

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

5700

Close Up

Picture # _____

409

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	<u>Pulaski</u>
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starks
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

410

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-15-2011

Weather 45° Windy Time 9:30

File ORTHO-SM-4-15-11

Photo ID # QCT6

Description COR. CONC. DRIVE

Δ N: Δ E: Δ Z: Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

5700

Block 1 2 3 4

Close Up

Picture # _____

392

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	<u>Pulaski</u>
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

393

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name Sean Murphy Date 4-15-2011
Weather 50° Windy Time 9:45
File ORTHO-SM-4-15-11

Photo ID # QC76A
Description CENTER OF ASPH. INTERSECTION

△ N: △ E: △ Z: Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

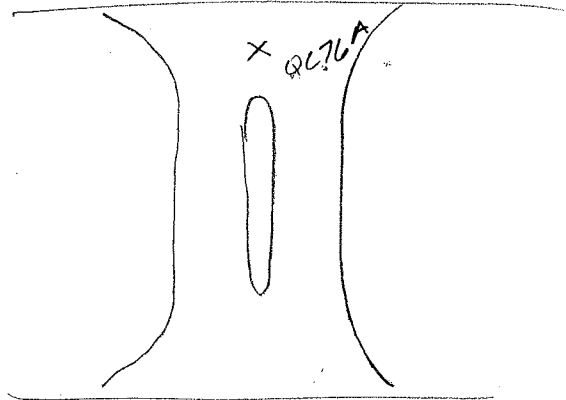
Block (1) 2 3 4

Close Up

Picture # _____

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	<u>Fulaski</u>
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

394

Comments / Notes

NORTH END OF ENTRANCE TO
SAME SUBDIVISION OF QC76

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-14-2011

Weather 60° SUNNY Time 1 PM

File ORTHO-SM-4-14-11

Photo ID # QC77

Description MOVED EAST TO B-BALL COURTS

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 4

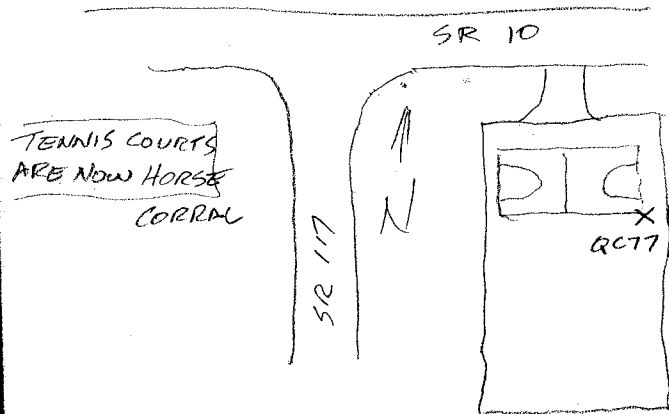
County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Stark
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

386

Sketch (if Necessary)



Picture of Set Up

Picture # _____

387

Comments / Notes SE COR. OF NORTH B-BALL COURT
ORIGINAL LOCATION HAS BEEN TURNED INTO HORSE CORRAL

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-11

Weather 65° SUNNY Time 2:15

File ORTHO-SM-4-13-11

Photo ID # QC78

Description CO2 CONC. DRIVE @ CONC. WALK

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.84

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	<u>Fulton</u>
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

362

Sketch (if Necessary)

Picture of Set Up

Picture # _____

363

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-12-2011
Weather 55° SUNNY Time 2 PM
File ORTHO-SM-4-12-11

Photo ID # QC79
Description CONC. WALK COR.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Block (1) 2 3 4

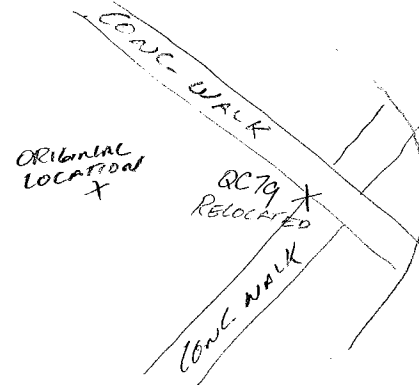
Close Up

Picture # _____

343

County	Harrison	Morgan	Cass
	Crawford	Marion	<u>Fulton</u>
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Eikhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

344

Comments / Notes P-Lot PAINT STRIPING
HAS BEEN RECONFIGURED
MOVED TO CONC. WALK COR. @ NORTH
EASTERN COR. OF P-Lot

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-12-2011
Weather 40° SUNNY Time 7:45
File ORTHO-SM-4-12-11

Photo ID # QC80
Description CORS. OF CONC. SIDE WALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Close Up

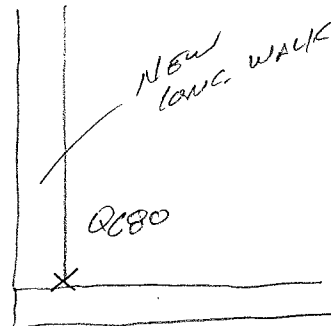
Picture # _____

327

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

328

Comments / Notes SIDE WALK IS NEW & EAST
WEST WALK DOES NOT CONTINUE WEST
MOVED TO EAST COR OF NEW WALK

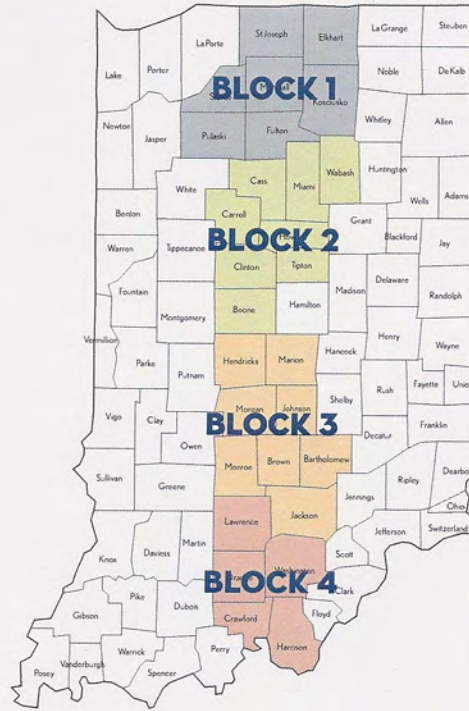
For Office Only:

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix F

Block 1 Data Disk

REPORT OF GROUND CONTROL 2011 INDIANA STATEWIDE IMAGERY & LiDAR PROGRAM



CENTRAL TIER - BLOCK 2 VOLUME 3

71177-01

REPORT OF GROUND CONTROL
2011 INDIANA STATE-WIDE
IMAGERY AND LIDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4

Prepared for:



7635 Interactive Way
Suite 100
Indianapolis, In. 46278

Prepared By:



April 2011

Volume 3 of 5

Table of Contents

Appendix G – Block 2 Data Tables

Appendix H – Block 2 Data Sheets

Appendix I – Block 2 Field Sheets

Appendix J – Block 2 Data Disk

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix G

Block 2 Data Tables

USI Control Report

Project: 2011-024

Description: 2011 Statewide Ortho - Block 2

Client: Woolpert

Datum: North American Datum of 1983 (NARS 2007)

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet



Block 2 - Photo Control

ID	Ind. East SPC		Ind. West SPC		Ind. West SPC		UTM 16N		Lat.	Long.	NAVD 1988 Elevation
	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT			
52	1802548.978	43111.657	1801159.250	3063547.224	14597073.636	1727902.854	40°11'33.89350"N	86°41'12.22503"W	834.250		
53	1797207.039	167245.389	1797798.607	3187747.575	145933597.726	1852053.367	40°10'52.13041"N	86°14'32.26248"W	936.636		
54	1810461.291	273530.123	1812748.633	3293815.895	14608442.485	1958095.200	40°13'07.67146"N	85°51'43.26319"W	831.614		
54A	1810509.439	273535.182	1812796.862	3293820.185	14608490.692	1958099.534	40°13'08.14739"N	85°51'43.19934"W	831.193		
55	1891020.114	42027.528	1889594.695	3061048.167	14685478.489	1725487.916	40°26'07.91332"N	86°41'39.42171"W	681.283		
56	1890607.499	149203.220	1890900.862	3168213.283	14686683.102	1832614.047	40°26'13.84852"N	86°18'33.43886"W	840.179		
56A	1890593.468	149203.105	1890886.830	3168213.393	14686669.076	1832614.144	40°26'13.70986"N	86°18'33.43902"W	840.206		
57	1884209.677	272165.250	1886475.216	3291270.946	14682143.098	1955620.606	40°25'16.42757"N	85°52'03.01442"W	853.479		
57A	1884239.503	273643.454	1886528.744	3292748.671	14682195.212	1957097.813	40°25'16.75607"N	85°51'43.90237"W	856.277		
58	1937997.006	25808.113	1936300.991	3044077.975	14732183.435	1708568.139	40°33'50.12938"N	86°45'16.63631"W	634.014		
58A	1937966.582	25786.459	1936270.226	3044056.815	14732152.702	1708546.958	40°33'49.82616"N	86°45'16.91197"W	634.658		
59	1938532.456	138719.320	1938651.835	3156960.995	14734426.661	1821411.105	40°34'06.62458"N	86°20'53.80613"W	763.080		
60	1959138.257	270347.279	1961374.364	3288249.002	14757016.300	1952670.598	40°37'36.80846"N	85°52'28.80573"W	824.833		
60A	1957885.811	270526.057	1960124.802	3288447.946	14755767.030	1952868.282	40°37'24.43654"N	85°52'26.44882"W	817.308		
61	1970861.622	330537.934	1974067.547	3348252.146	14769647.744	2012662.504	40°39'33.32679"N	85°39'28.14975"W	881.126		
61A	1970876.815	330538.161	1974082.744	3348252.129	14769662.936	2012662.501	40°39'33.47692"N	85°39'28.14678"W	881.084		
62	2001921.179	27423.169	2000236.857	3044663.087	14796094.992	1709213.592	40°44'21.88290"N	86°45'05.93070"W	664.421		
63	2009872.843	188637.291	2010789.341	3205724.423	14806490.637	1870224.418	40°45'54.86278"N	86°10'12.28274"W	683.097		
64	2063878.345	75590.463	2062959.995	3091819.182	14858749.925	1756411.728	40°54'39.43047"N	86°34'48.65292"W	708.512		
65	2096584.668	194787.784	2097593.971	3210471.058	14893257.751	1875051.865	41°00'11.98633"N	86°08'58.56900"W	827.622		
65A	2096597.493	194878.583	2097608.268	3210561.841	14893271.956	1875142.428	41°00'12.11801"N	86°08'57.38569"W	832.186		
66	2112670.798	251667.803	2114602.513	3267087.092	14910205.760	1931662.521	41°02'59.37507"N	85°56'37.36226"W	871.654		
67	2107617.300	326260.439	2110760.198	3341762.367	14906293.618	2006305.364	41°02'04.64013"N	85°40'23.78723"W	821.109		
68	1753902.092	98121.917	1753397.703	3119322.691	14549277.690	1783612.701	40°03'38.83575"N	86°29'17.63166"W	928.498		
69	1837072.735	98526.278	1836561.818	3118400.386	14632411.441	1782768.751	40°17'20.71113"N	86°29'22.34209"W	850.464		
70	1848156.084	217647.304	1849449.282	3237331.870	14845282.123	1901667.418	40°19'18.33188"N	86°03'45.82590"W	877.473		
70A	1848153.056	218212.092	1849555.292	3237896.678	14645287.598	1902232.017	40°19'18.32686"N	86°03'38.53399"W	879.581		
71	1912566.907	202338.559	1913711.037	3220991.522	14709434.812	1885393.783	40°29'54.09425"N	86°07'07.72388"W	819.009		
72	1954010.869	85844.342	1953277.396	3103844.769	14749096.971	1768328.692	40°36'34.95267"N	86°32'20.88758"W	675.656		
73	2009523.488	132168.170	2009528.345	3149266.857	14805283.721	1813787.026	40°45'47.56169"N	86°22'26.09026"W	610.448		



USI Control Report

Project: 2011-024
Description: 2011 Statewide Ortho - Block 2
Client: Woolpert
Datum: North American Datum of 1983 (NRSR 2007)
Geoid: Geoid 09
Units: US Survey Feet
 1 meter = (3937/1200) US Survey Feet

Block 2 - Photo Control

ID	Ind. East SPC		Ind. West SPC		UTM 16N		Lat.	Long.	NAVD 1988 Elevation
	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT			
74	2017284.957	257241.314	2019309.026	3274205.399	14814942.032	1938687.335	40°47'11.03615"N	85°55'20.97767"W	658.090
75	2041622.261	335016.446	2044904.031	3351586.375	14840453.601	2016064.798	40°51'12.53059"N	85°38'29.77557"W	730.822
75A	2041737.100	334907.617	2045017.115	3351477.683	14840566.746	2015954.257	40°51'13.66564"N	85°38'31.19140"W	731.361
QC41	2047012.640	97464.311	2046451.197	3113962.226	14842226.237	1778530.765	40°51'54.95461"N	86°30'01.68949"W	733.573
QC42	2046760.188	173648.005	2047431.237	3190140.266	14843133.435	1854681.002	40°51'58.44399"N	86°13'30.13331"W	793.308
QC43	2046471.454	214496.920	2047803.402	3230990.772	14843466.593	1895516.328	40°51'57.82438"N	86°04'38.44075"W	708.413
QC44	2087051.567	281428.125	2089466.540	3297262.808	14885050.642	1961802.662	40°58'40.98617"N	85°50'08.29071"W	759.152
QC45	1973019.130	166878.889	1973587.963	3184562.355	14769323.449	1849035.096	40°39'49.38389"N	86°14'51.88010"W	764.557
QC46	1970603.489	228994.691	1972173.274	3246712.719	14767850.413	1911160.466	40°39'28.78893"N	86°01'25.72255"W	809.016
QC47	2000758.927	296591.901	2003418.394	3313822.823	14799019.894	1978274.429	40°44'28.55595"N	85°46'49.12590"W	798.205
QC48	1970460.579	53831.150	1969208.644	3071572.657	14765052.819	1736083.729	40°39'14.13528"N	86°39'18.31353"W	674.826
QC48A	1970466.010	53815.996	1969213.830	3071557.419	14765058.017	1736068.501	40°39'14.18726"N	86°39'18.51091"W	675.279
QC49	1904745.864	89451.396	1904078.665	3108242.952	14699912.513	1772678.729	40°28'28.53400"N	86°31'27.90758"W	741.075
QC50	1889043.577	219780.669	1890468.950	3238810.146	14686184.773	1903183.678	40°26'02.46714"N	86°03'20.60507"W	851.483
QC51	1873884.943	54965.703	1872670.370	3074258.360	14686848.022	1738677.232	40°23'20.06262"N	86°38'49.66409"W	732.345
QC52	1815024.840	93846.501	1814442.646	3114073.632	14610304.637	1778422.637	40°13'42.41838"N	86°30'20.03465"W	880.908
QC53	1830833.351	183594.216	1831683.075	3203558.012	14627454.484	1867889.622	40°16'25.41556"N	86°11'04.15883"W	923.321
QC53A	1830818.125	183680.282	1831669.226	3203644.315	14627440.559	1867975.879	40°16'25.27007"N	86°11'03.04732"W	922.323
QC54	1863389.204	247485.222	1865259.497	3266924.860	14660958.469	1931263.875	40°21'50.00567"N	85°57'21.24046"W	864.696
QC55	1777197.464	64444.194	1776152.847	3086279.790	14572056.196	1749603.863	40°07'25.72519"N	86°36'33.89818"W	855.378
QC56	1736306.291	76804.427	1735452.758	3098288.568	14531372.143	1762569.694	40°00'42.93048"N	86°33'49.49534"W	936.700
QC56A	1736311.105	76652.459	1735468.154	3098136.550	14531374.681	1762417.735	40°00'42.96292"N	86°33'51.44886"W	937.746
QC57	1727005.182	136406.993	1727113.265	3158030.170	14522966.956	1822281.025	39°59'16.24356"N	86°21'02.61151"W	947.326
QC58	1777714.938	129470.482	1777706.371	3150287.632	14573548.212	1814588.751	40°07'36.81247"N	86°22'36.92107"W	935.755
QC59	1867007.776	143147.918	1867206.797	3162536.899	14663003.343	1826917.478	40°22'20.20960"N	86°19'49.45484"W	882.447
QC60	1926609.012	236900.242	1928307.688	3255325.909	14723993.453	1919728.852	40°32'14.36280"N	85°59'41.01895"W	847.735
QC60A	1926587.870	236928.833	1928287.006	3255354.839	14723972.751	1919757.751	40°32'14.15493"N	85°59'40.64762"W	848.139

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix H

Block 2 Data Sheets

2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 52

Coordinate Values:

	Northing	Easting
Ind. East SPC:	43111.657	1802548.978
Ind. West SPC:	1801159.25	3063547.224
UTM 16N:	14597073.636	1727902.854

Geodetic Coordinates:

Latitude	Longitude
40°11'33.89350"N	86°41'12.22503"W

Orthometric Height:

NAVD 1988
834.25

Ground Photo:

Target ID: 52

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 53

Coordinate Values:

	Northing	Easting
Ind. East SPC:	167245.389	1797207.039
Ind. West SPC:	1797798.607	3187747.575
UTM 16N:	14593597.726	1852053.367

Geodetic Coordinates:

Latitude	Longitude
40°10'52.13041"N	86°14'32.26248"W

Orthometric Height:

NAVD 1988
936.636

Ground Photo:

Target ID: 53

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 54

Coordinate Values:

	Northing	Easting
Ind. East SPC:	273530.123	1810461.291
Ind. West SPC:	1812748.633	3293815.895
UTM 16N:	14608442.485	1958095.2

Geodetic Coordinates:

Latitude	Longitude
40°13'07.67146"N	85°51'43.26319"W

Orthometric Height:

NAVD 1988
831.614

Ground Photo:

Target ID: 54

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 54A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	273535.182	1810509.439
Ind. West SPC:	1812796.862	3293820.185
UTM 16N:	14608490.692	1958099.534

Geodetic Coordinates:

Latitude	Longitude
40°13'08.14739"N	85°51'43.19934"W

Orthometric Height:

NAVD 1988
831.193

Ground Photo:

Target ID: 54A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 55

Coordinate Values:

	Northing	Easting
Ind. East SPC:	42027.528	1891020.114
Ind. West SPC:	1889594.695	3061048.167
UTM 16N:	14685478.489	1725487.916

Geodetic Coordinates:

Latitude	Longitude
40°26'07.91332"N	86°41'39.42171"W

Orthometric Height:

NAVD 1988
681.283

Ground Photo:

Target ID: 55

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 56

Coordinate Values:

	Northing	Easting
Ind. East SPC:	149203.22	1890607.499
Ind. West SPC:	1890900.862	3168213.283
UTM 16N:	14686683.102	1832614.047

Geodetic Coordinates:

Latitude	Longitude
40°26'13.84852"N	86°18'33.43886"W

Orthometric Height:

NAVD 1988
840.179

Ground Photo:

Target ID: 56

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 56A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	149203.105	1890593.468
Ind. West SPC:	1890886.83	3168213.393
UTM 16N:	14686669.076	1832614.144

Geodetic Coordinates:

Latitude	Longitude
40°26'13.70986"N	86°18'33.43902"W

Orthometric Height:

NAVD 1988
840.206

Ground Photo:

Target ID: 56A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 57

Coordinate Values:

	Northing	Easting
Ind. East SPC:	272165.25	1884209.677
Ind. West SPC:	1886475.216	3291270.946
UTM 16N:	14682143.098	1955620.606

Geodetic Coordinates:

Latitude	Longitude
40°25'16.42757"N	85°52'03.01442"W

Orthometric Height:

NAVD 1988
853.479

Ground Photo:

Target ID: 57

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 57A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	273643.454	1884239.503
Ind. West SPC:	1886528.744	3292748.671
UTM 16N:	14682195.212	1957097.813

Geodetic Coordinates:

Latitude	Longitude
40°25'16.75507"N	85°51'43.90237"W

Orthometric Height:

NAVD 1988
856.277

Ground Photo:

Target ID: 57A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 58

Coordinate Values:

	Northing	Easting
Ind. East SPC:	25808.113	1937997.006
Ind. West SPC:	1936300.991	3044077.975
UTM 16N:	14732183.435	1708568.139

Geodetic Coordinates:

Latitude	Longitude
40°33'50.12938"N	86°45'16.63631"W

Orthometric Height:

NAVD 1988
634.014

Ground Photo:

Target ID: 58

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 58A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	25786.459	1937966.582
Ind. West SPC:	1936270.226	3044056.815
UTM 16N:	14732152.702	1708546.958

Geodetic Coordinates:

Latitude	Longitude
40°33'49.82616"N	86°45'16.91197"W

Orthometric Height:

NAVD 1988
634.658

Ground Photo:

Target ID: 58A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 59

Coordinate Values:

	Northing	Easting
Ind. East SPC:	138719.32	1938532.456
Ind. West SPC:	1938651.835	3156960.995
UTM 16N:	14734426.661	1821411.105

Geodetic Coordinates:

Latitude	Longitude
40°34'06.62458"N	86°20'53.80613"W

Orthometric Height:

NAVD 1988
763.08

Ground Photo:

Target ID: 59

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 60

Coordinate Values:

	Northing	Easting
Ind. East SPC:	270347.279	1959138.257
Ind. West SPC:	1961374.364	3288249.002
UTM 16N:	14757016.3	1952670.598

Geodetic Coordinates:

Latitude	Longitude
40°37'36.80846"N	85°52'28.80573"W

Orthometric Height:

NAVD 1988
824.833

Ground Photo:

Target ID: 60

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 60A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	270526.057	1957885.811
Ind. West SPC:	1960124.802	3288447.946
UTM 16N:	14755767.03	1952868.282

Geodetic Coordinates:

Latitude	Longitude
40°37'24.43654"N	85°52'26.44882"W

Orthometric Height:

NAVD 1988
817.308

Ground Photo:

Target ID: 60A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 61

Coordinate Values:

	Northing	Easting
Ind. East SPC:	330537.934	1970861.622
Ind. West SPC:	1974067.547	3348252.146
UTM 16N:	14769647.744	2012662.604

Geodetic Coordinates:

Latitude	Longitude
40°39'33.32679"N	85°39'28.14975"W

Orthometric Height:

NAVD 1988
881.126

Ground Photo:

Target ID: 61

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 61A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	330538.161	1970876.815
Ind. West SPC:	1974082.744	3348252.129
UTM 16N:	14769662.936	2012662.601

Geodetic Coordinates:

Latitude	Longitude
40°39'33.47692"N	85°39'28.14678"W

Orthometric Height:

NAVD 1988
881.084

Ground Photo:

Target ID: 61A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 62

Coordinate Values:

	Northing	Easting
Ind. East SPC:	27423.169	2001921.179
Ind. West SPC:	2000236.857	3044663.087
UTM 16N:	14796094.992	1709213.592

Geodetic Coordinates:

Latitude	Longitude
40°44'21.88290"N	86°45'05.93070"W

Orthometric Height:

NAVD 1988
664.421

Ground Photo:

Target ID: 62

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 63

Coordinate Values:

	Northing	Easting
Ind. East SPC:	188637.291	2009872.843
Ind. West SPC:	2010789.341	3205724.423
UTM 16N:	14806490.637	1870224.418

Geodetic Coordinates:

Latitude	Longitude
40°45'54.86278"N	86°10'12.28274"W

Orthometric Height:

NAVD 1988
683.097

Ground Photo:

Target ID: 63

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 64

Coordinate Values:

	Northing	Easting
Ind. East SPC:	75590.463	2063878.345
Ind. West SPC:	2062959.995	3091819.182
UTM 16N:	14858749.925	1756411.728

Geodetic Coordinates:

Latitude	Longitude
40°54'39.43047"N	86°34'48.65292"W

Orthometric Height:

NAVD 1988
708.512

Ground Photo:

Target ID: 64

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 65

Coordinate Values:

	Northing	Easting
Ind. East SPC:	194787.784	2096584.668
Ind. West SPC:	2097593.971	3210471.058
UTM 16N:	14893257.751	1875051.865

Geodetic Coordinates:

Latitude	Longitude
41°00'11.98633"N	86°08'58.56900"W

Orthometric Height:

NAVD 1988
827.622

Ground Photo:

Target ID: 65

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 65A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	194878.583	2096597.493
Ind. West SPC:	2097608.268	3210561.641
UTM 16N:	14893271.956	1875142.428

Geodetic Coordinates:

Latitude	Longitude
41°00'12.11801"N	86°08'57.38569"W

Orthometric Height:

NAVD 1988
832.186

Ground Photo:

Target ID: 65A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 66

Coordinate Values:

	Northing	Easting
Ind. East SPC:	251667.803	2112670.798
Ind. West SPC:	2114602.513	3267087.092
UTM 16N:	14910205.76	1931662.521

Geodetic Coordinates:

Latitude	Longitude
41°02'53.37507"N	85°56'37.36226"W

Orthometric Height:

NAVD 1988
871.654

Ground Photo:

Target ID: 66

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 67

Coordinate Values:

	Northing	Easting
Ind. East SPC:	326260.439	2107617.3
Ind. West SPC:	2110760.198	3341762.367
UTM 16N:	14906293.618	2006305.364

Geodetic Coordinates:

Latitude	Longitude
41°02'04.64013"N	85°40'23.78723"W

Orthometric Height:

NAVD 1988
821.109

Ground Photo:

Target ID: 67

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 68

Coordinate Values:

	Northing	Easting
Ind. East SPC:	98121.917	1753902.092
Ind. West SPC:	1753397.703	3119322.691
UTM 16N:	14549277.69	1783612.701

Geodetic Coordinates:

Latitude	Longitude
40°03'38.83575"N	86°29'17.63166"W

Orthometric Height:

NAVD 1988
928.498

Ground Photo:

Target ID: 68

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 69

Coordinate Values:

	Northing	Easting
Ind. East SPC:	98526.278	1837072.735
Ind. West SPC:	1836561.818	3118400.386
UTM 16N:	14632411.441	1782768.751

Geodetic Coordinates:

Latitude	Longitude
40°17'20.71113"N	86°29'22.34209"W

Orthometric Height:

NAVD 1988
850.464

Ground Photo:

Target ID: 69

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 70

Coordinate Values:

	Northing	Easting
Ind. East SPC:	217647.304	1848156.084
Ind. West SPC:	1849549.282	3237331.87
UTM 16N:	14645282.123	1901667.418

Geodetic Coordinates:

Latitude	Longitude
40°19'18.33188"N	86°03'45.82590"W

Orthometric Height:

NAVD 1988
877.473

Ground Photo:

Target ID: 70

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 70A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	218212.092	1848153.056
Ind. West SPC:	1849555.292	3237896.678
UTM 16N:	14645287.598	1902232.017

Geodetic Coordinates:

Latitude	Longitude
40°19'18.32686"N	86°03'38.53399"W

Orthometric Height:

NAVD 1988
879.581

Ground Photo:

Target ID: 70A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 71

Coordinate Values:

	Northing	Easting
Ind. East SPC:	202338.559	1912566.907
Ind. West SPC:	1913711.037	3220991.522
UTM 16N:	14709434.812	1885393.783

Geodetic Coordinates:

Latitude	Longitude
40°29'54.09425"N	86°07'07.72388"W

Orthometric Height:

NAVD 1988
819.009

Ground Photo:

Target ID: 71

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 72

Coordinate Values:

	Northing	Easting
Ind. East SPC:	85844.342	1954010.869
Ind. West SPC:	1953277.396	3103844.769
UTM 16N:	14749096.971	1768328.692

Geodetic Coordinates:

Latitude	Longitude
40°36'34.95267"N	86°32'20.88758"W

Orthometric Height:

NAVD 1988
675.656

Ground Photo:

Target ID: 72

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 73

Coordinate Values:

	Northing	Easting
Ind. East SPC:	132168.17	2009523.488
Ind. West SPC:	2009528.345	3149266.857
UTM 16N:	14805283.721	1813787.026

Geodetic Coordinates:

Latitude	Longitude
40°45'47.56169"N	86°22'26.09026"W

Orthometric Height:

NAVD 1988
610.448

Ground Photo:

Target ID: 73

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 74

Coordinate Values:

	Northing	Easting
Ind. East SPC:	257241.314	2017284.957
Ind. West SPC:	2019309.026	3274205.399
UTM 16N:	14814942.032	1938687.335

Geodetic Coordinates:

Latitude	Longitude
40°47'11.03615"N	85°55'20.97767"W

Orthometric Height:

NAVD 1988
658.09

Ground Photo:

Target ID: 74

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 75

Coordinate Values:

	Northing	Easting
Ind. East SPC:	335016.446	2041622.261
Ind. West SPC:	2044904.031	3351588.375
UTM 16N:	14840453.601	2016064.798

Geodetic Coordinates:

Latitude	Longitude
40°51'12.53059"N	85°38'29.77557"W

Orthometric Height:

NAVD 1988
730.822

Ground Photo:

Target ID: 75

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 75A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	334907.617	2041737.1
Ind. West SPC:	2045017.115	3351477.683
UTM 16N:	14840566.746	2015954.257

Geodetic Coordinates:

Latitude	Longitude
40°51'13.66564"N	85°38'31.19140"W

Orthometric Height:

NAVD 1988
731.361

Ground Photo:

Target ID: 75A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC41

Coordinate Values:

	Northing	Easting
Ind. East SPC:	97464.311	2047012.64
Ind. West SPC:	2046451.197	3113962.226
UTM 16N:	14842226.237	1778530.765

Geodetic Coordinates:

Latitude	Longitude
40°51'54.95461"N	86°30'01.68949"W

Orthometric Height:

NAVD 1988
733.573

Ground Photo:

Target ID: QC41

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC42

Coordinate Values:

	Northing	Easting
Ind. East SPC:	173648.005	2046760.188
Ind. West SPC:	2047431.237	3190140.266
UTM 16N:	14843133.435	1854681.002

Geodetic Coordinates:

Latitude	Longitude
40°51'58.44399"N	86°13'30.13331"W

Orthometric Height:

NAVD 1988
793.308

Ground Photo:

Target ID: QC42

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC43

Coordinate Values:

	Northing	Easting
Ind. East SPC:	214496.92	2046471.454
Ind. West SPC:	2047803.402	3230990.772
UTM 16N:	14843466.593	1895516.328

Geodetic Coordinates:

Latitude	Longitude
40°51'57.82438"N	86°04'38.44075"W

Orthometric Height:

NAVD 1988
708.413

Ground Photo:

Target ID: QC43

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC44

Coordinate Values:

	Northing	Easting
Ind. East SPC:	281428.125	2087051.567
Ind. West SPC:	2089466.54	3297262.808
UTM 16N:	14885050.642	1961802.662

Geodetic Coordinates:

Latitude	Longitude
40°58'40.98617"N	85°50'08.29071"W

Orthometric Height:

NAVD 1988
759.152

Ground Photo:

Target ID: QC44

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC45

Coordinate Values:

	Northing	Easting
Ind. East SPC:	166878.889	1973019.13
Ind. West SPC:	1973587.963	3184562.355
UTM 16N:	14769323.449	1849035.096

Geodetic Coordinates:

Latitude	Longitude
40°39'49.38389"N	86°14'51.88010"W

Orthometric Height:

NAVD 1988
764.557

Ground Photo:

Target ID: QC45

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC46

Coordinate Values:

	Northing	Easting
Ind. East SPC:	228994.691	1970603.489
Ind. West SPC:	1972173.274	3246712.719
UTM 16N:	14767850.413	1911160.466

Geodetic Coordinates:

Latitude	Longitude
40°39'28.78893"N	86°01'25.72255"W

Orthometric Height:

NAVD 1988
809.016

Ground Photo:

Target ID: QC46

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC47

Coordinate Values:

	Northing	Easting
Ind. East SPC:	296591.901	2000758.927
Ind. West SPC:	2003418.394	3313822.823
UTM 16N:	14799019.894	1978274.429

Geodetic Coordinates:

Latitude	Longitude
40°44'28.55595"N	85°46'49.12590"W

Orthometric Height:

NAVD 1988
798.205

Ground Photo:

Target ID: QC47

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC48

Coordinate Values:

	Northing	Easting
Ind. East SPC:	53831.15	1970460.579
Ind. West SPC:	1969208.644	3071572.657
UTM 16N:	14765052.819	1736083.729

Geodetic Coordinates:

Latitude	Longitude
40°39'14.13528"N	86°39'18.31353"W

Orthometric Height:

NAVD 1988
674.826

Ground Photo:

Target ID: QC48

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC48A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	53815.996	1970466.01
Ind. West SPC:	1969213.83	3071557.419
UTM 16N:	14765058.017	1736068.501

Geodetic Coordinates:

Latitude	Longitude
40°39'14.18726"N	86°39'18.51091"W

Orthometric Height:

NAVD 1988
675.279

Ground Photo:

Target ID: QC48A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC49

Coordinate Values:

	Northing	Easting
Ind. East SPC:	89451.396	1904745.864
Ind. West SPC:	1904078.655	3108242.952
UTM 16N:	14699912.513	1772678.729

Geodetic Coordinates:

Latitude	Longitude
40°28'28.53400"N	86°31'27.90758"W

Orthometric Height:

NAVD 1988
741.075

Ground Photo:

Target ID: QC49

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC50

Coordinate Values:

	Northing	Easting
Ind. East SPC:	219780.669	1889043.577
Ind. West SPC:	1890468.95	3238810.146
UTM 16N:	14686184.773	1903183.678

Geodetic Coordinates:

Latitude	Longitude
40°26'02.46714"N	86°03'20.60507"W

Orthometric Height:

NAVD 1988
851.483

Ground Photo:

Target ID: QC50

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: QC51

Coordinate Values:

	Northing	Easting
Ind. East SPC:	54965.703	1873884.943
Ind. West SPC:	1872670.37	3074258.36
UTM 16N:	14668548.022	1738677.232

Geodetic Coordinates:

Latitude	Longitude
40°23'20.06262"N	86°38'49.66409"W

Orthometric Height:

NAVD 1988
732.345

Ground Photo:

Target ID: QC51

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC52

Coordinate Values:

	Northing	Easting
Ind. East SPC:	93846.501	1815024.84
Ind. West SPC:	1814442.646	3114073.632
UTM 16N:	14610304.637	1778422.837

Geodetic Coordinates:

Latitude	Longitude
40°13'42.41838"N	86°30'20.03465"W

Orthometric Height:

NAVD 1988
880.908

Ground Photo:

Target ID: QC52

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC53

Coordinate Values:

	Northing	Easting
Ind. East SPC:	183594.216	1830833.351
Ind. West SPC:	1831683.075	3203558.012
UTM 16N:	14627454.484	1867889.622

Geodetic Coordinates:

Latitude	Longitude
40°16'25.41556"N	86°11'04.15883"W

Orthometric Height:

NAVD 1988
923.321

Ground Photo:

Target ID: QC53

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC53A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	183680.282	1830818.125
Ind. West SPC:	1831669.226	3203644.315
UTM 16N:	14627440.559	1867975.879

Geodetic Coordinates:

Latitude	Longitude
40°16'25.27007"N	86°11'03.04732"W

Orthometric Height:

NAVD 1988
922.323

Ground Photo:

Target ID: QC53A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC54

Coordinate Values:

	Northing	Easting
Ind. East SPC:	247485.222	1863389.204
Ind. West SPC:	1865259.497	3266924.86
UTM 16N:	14660958.469	1931263.875

Geodetic Coordinates:

Latitude	Longitude
40°21'50.00567"N	85°57'21.24046"W

Orthometric Height:

NAVD 1988
864.696

Ground Photo:

Target ID: QC54

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC55

Coordinate Values:

	Northing	Easting
Ind. East SPC:	64444.194	1777197.464
Ind. West SPC:	1776152.847	3085279.79
UTM 16N:	14572056.186	1749603.863

Geodetic Coordinates:

Latitude	Longitude
40°07'25.72519"N	86°36'33.89818"W

Orthometric Height:

NAVD 1988
855.378

Ground Photo:

Target ID: QC55

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC56

Coordinate Values:

	Northing	Easting
Ind. East SPC:	76804.427	1736306.291
Ind. West SPC:	1735465.758	3098288.568
UTM 16N:	14531372.143	1762569.694

Geodetic Coordinates:

Latitude	Longitude
40°00'42.93048"N	86°33'49.49534"W

Orthometric Height:

NAVD 1988
936.7

Ground Photo:

Target ID: QC56

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC56A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	76652.459	1736311.105
Ind. West SPC:	1735468.154	3098136.55
UTM 16N:	14531374.681	1762417.735

Geodetic Coordinates:

Latitude	Longitude
40°00'42.96292"N	86°33'51.44886"W

Orthometric Height:

NAVD 1988
937.746

Ground Photo:

Target ID: QC56A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC57

Coordinate Values:

	Northing	Easting
Ind. East SPC:	136406.983	1727005.182
Ind. West SPC:	1727113.265	3158030.17
UTM 16N:	14522966.956	1822281.025

Geodetic Coordinates:

Latitude	Longitude
39°59'16.24356"N	86°21'02.61151"W

Orthometric Height:

NAVD 1988
947.326

Ground Photo:

Target ID: QC57

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC58

Coordinate Values:

	Northing	Easting
Ind. East SPC:	129470.482	1777714.938
Ind. West SPC:	1777706.371	3150287.632
UTM 16N:	14573548.212	1814588.751

Geodetic Coordinates:

Latitude	Longitude
40°07'36.81247"N	86°22'36.92107"W

Orthometric Height:

NAVD 1988
935.755

Ground Photo:

Target ID: QC58

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC59

Coordinate Values:

	Northing	Easting
Ind. East SPC:	143147.918	1867007.776
Ind. West SPC:	1867206.797	3162536.899
UTM 16N:	14663003.343	1826917.478

Geodetic Coordinates:

Latitude	Longitude
40°22'20.20960"N	86°19'49.45484"W

Orthometric Height:

NAVD 1988
882.447

Ground Photo:

Target ID: QC59

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: QC60

Coordinate Values:

	Northing	Easting
Ind. East SPC:	236900.242	1926609.012
Ind. West SPC:	1928307.688	3255325.909
UTM 16N:	14723993.453	1919728.852

Geodetic Coordinates:

Latitude	Longitude
40°32'14.36280"N	85°59'41.01895"W

Orthometric Height:

NAVD 1988
847.735

Ground Photo:

Target ID: QC60

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 2

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: QC60A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	236928.833	1926587.87
Ind. West SPC:	1928287.006	3255354.839
UTM 16N:	14723972.751	1919757.751

Geodetic Coordinates:

Latitude	Longitude
40°32'14.15493"N	85°59'40.64762"W

Orthometric Height:

NAVD 1988
848.139

Ground Photo:

Target ID: QC60A

[Link to Picture](#)



2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix I

Block 2 Field Sheets

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINKSON Date 4-14-11
Weather SUNNY 45° Time _____
File ORTHO 4-14 CS

Photo ID # 52
Description S.E. COR. CONC. DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

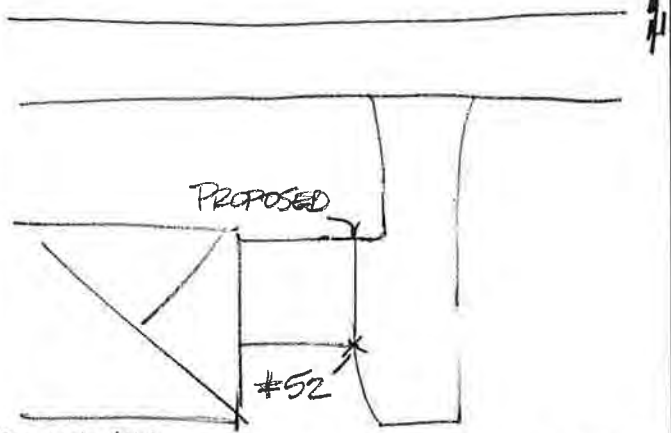
Close Up

Picture # 227

Block 1 (2) 3 4

- | | | | |
|--------|-------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Sketch (if Necessary)



Picture of Set Up

Picture # 228
LOOKING W.

Comments / Notes
MOVED POINT FOR BETTER COR.
CONDITION

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name J. JINSON Date 4-18-11
Weather CLOUDY / RAIN 50° Time 8:00 AM
File ORTSD 4-18 CS

Photo ID # 53
Description NW COR CONC SIDEWALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 262

Block 1 (2) 3 4

- | | | | |
|--------|-------------|-----------|-----------------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other <u>HAMILTON</u> |
| | Johnson | Miami | |

Sketch (if Necessary)

Picture of Set Up

Picture # 263

LOOKING E.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-15-11
Weather P. SUNNY 45° Time 7:50 AM
File ORTHO 4-15 CS

Photo ID # 5A
Description TIP OF PAINTED CHEVRON

△ N: △ E: △ Z: Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

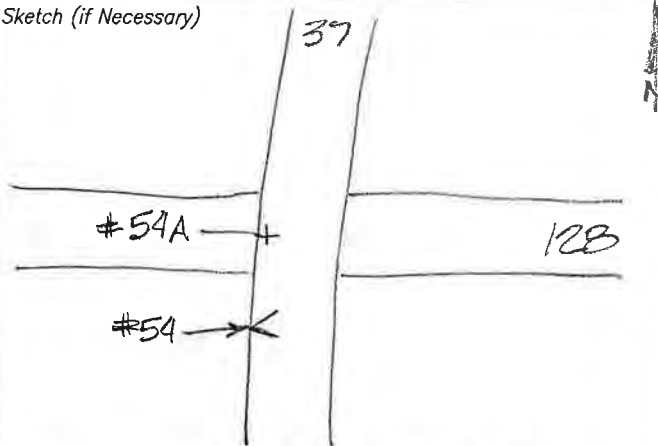
Close Up

Picture # 244

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	<u>Tipton</u>	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 245

Comments / Notes MOVED TO CHEVRON
DUE TO NEW PAVING IN DRIVE

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STANSON Date 4-15-11
Weather P. SUNNY 45° Time 8:10 AM
File ORTHO 4-15 CS

Photo ID # 54A
Description INTERSECTION OF 37 & 128

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 246

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

SEE POINT
54

Picture of Set Up

Picture # 247

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-13-11
Weather M. SUNNY 40° Time 7:50 AM
File ORTHO 4-13 CS

Photo ID # 55
Description N.W. CORNER CONC. DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 214

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	<u>Carroll</u>	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 215
LOOKING N.E.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-18-11
Weather P. SUNNY 50° Time 10:45 AM
File ORTHO 4-18 CS

Photo ID # 56
Description N. EDGE OF DRIVE AT
E. PUMT.

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 273

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 274
LOOKING W

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-18-11
Weather P. SUNNY 50° Time 11:00 AM
File ORTHO 4-18 CS

Photo ID # 56A
Description CENTER OF CONC. DRIVE AT E. PUMT.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

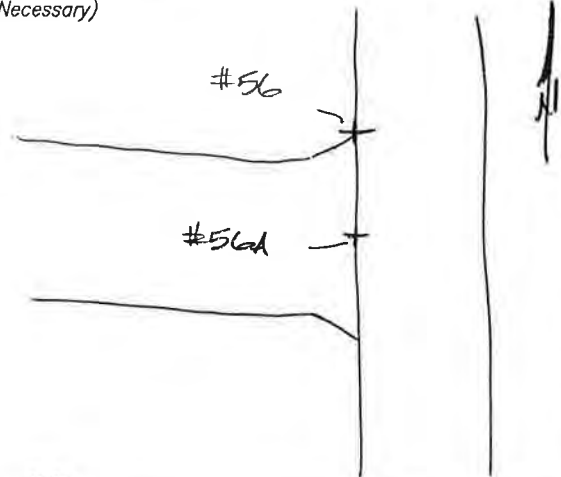
Picture # 275

Block 1 (2) 3 4
County Harrison Morgan Cass
Crawford Marion Fulton
Washington Hendricks Pulaski
Orange Boone Kosciusko
Jackson Tipton Marshall
Lawrence Clinton Starke
Bartholomew Howard Elkhart
Brown ~~Carroll~~ St. Joseph
Monroe Wabash Other _____
Johnson Miami

Picture of Set Up

Picture # 276
LOOKING W

Sketch (if Necessary)



Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-15-11
Weather CLOUDY 50° Time 10:30 AM
File ORTHO 4-15 CS

Photo ID # 57
Description W. EDGE OF DRIVE AT
PUMPT. CHANGE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 250

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	<u>Howard</u>	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 251
LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-15-11
Weather CLOUDY 60° Time 10:45 AM
File ORTHO 4-15 05

Photo ID # 57A
Description INTERSECTION OF CR 400S
AND 1000 W

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 252

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 253
LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-11-11
Weather CLOUDY 60° Time 1:45 PM
File ORTHO 4-11 CS

Photo ID # 5B
Description E. EDGE OF CONC DRIVE ON S. SIDE PVMTT

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

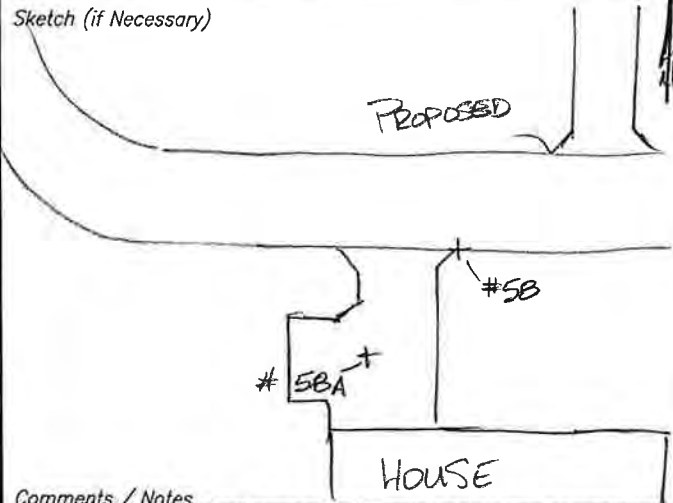
Close Up

Picture # 209

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 210
LOOKING S.

Comments / Notes

MOVED FOR BETTER DRIVE CONDITION

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-11-11
Weather CLOUDY 60° Time 2:05 PM
File ORTHO 4-11 CS

Photo ID # SBA
Description CENTER OF CONC. DRIVE

△ N: △ E: △ Z: Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 211

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	<u>Carroll</u>	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

SEE #58

Picture of Set Up

Picture # 212
LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-8-11
Weather CLOUDY 55° Time 2:50 PM
File ORTHO 4-8 CS

Photo ID # 59
Description CORNER CONC. SIDEWALK
(SW. CORNER)

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 196

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 197
LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-8-11
Weather RAIN 50° Time 9:45 AM
File ORTHO 4-8 CS

Photo ID # 60
Description CORNER CONC. DRIVE AT
EDGE OF GRAVEL

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 185

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 186

LOOKING N.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-8-11
Weather RAIN 50° Time 10:10 AM
File ORTHO 4-8 CS

Photo ID # 60 A
Description CENTER OF INTERSECTION
1050 E. + 1000 S.

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 187

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	<u>Miami</u>	

Sketch (if Necessary)

Picture of Set Up

Picture # 188
LOOKING W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-7-11
Weather CLOUDY 50° Time 3:30 PM
File ORTHO 4-7 CS

Photo ID # 61
Description COR OF DRIVE AT EDGE
PVMT.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 174

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	<u>Wabash</u>	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 175
LOOKING W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-7-11

Weather CLOUDY 50° Time _____

File ORTHO 4-7 CS

Photo ID # 61A

Description CONC. DRIVE AT EDGE
PVMT.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

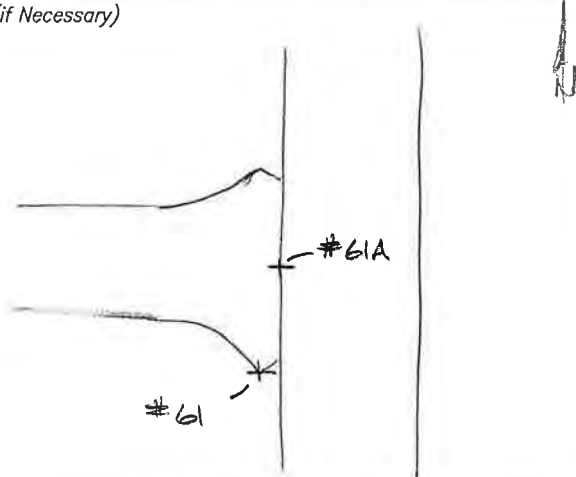
Close Up

Picture # 176

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	<u>Wabash</u>	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 177

LOOKING W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-11-11
Weather CLOUDY 60° Time 12:10 PM
File ORTHO 4-11 CS

Photo ID # 62
Description CORNER CONC. SIDEWALK

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 206

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>WHITE</u>
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 207
LOOKING SE.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-8-11
Weather CLOUDY 45° Time 1:15 PM
File ORTHO 4-8 CS

Photo ID # 63
Description S.E. COR. OF STOP BAR

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

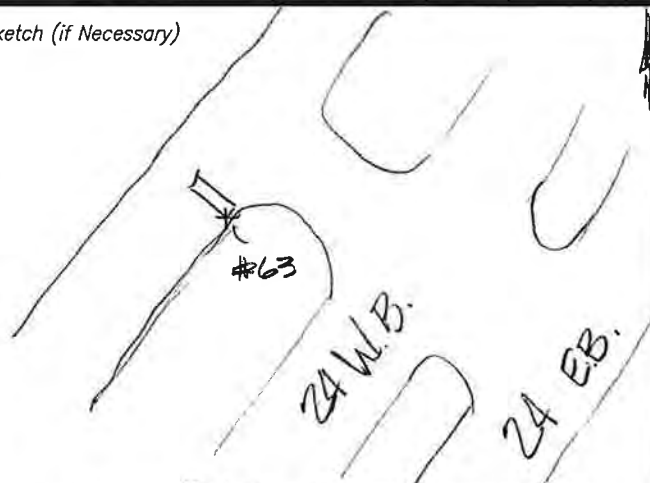
Close Up

Picture # 192

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 193
LOOKING S.

Comments / Notes MOVED TO OTHER SIDE OF
24 FOR A BETTER STOP BAR

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-7-11
Weather Cloudy 40° Time 7:30 AM
File ORTHO 4-7 CS

Photo ID # 64
Description SE. CORNER CONC. WALK

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 159

Block 1 (2) 3 4

County	Harrison	Morgan	<u>Cass</u>
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 160

LOOKING N.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STANSON Date 4-6-11
Weather Cloudy 60° Time 4:00 PM
File ORTHO 4-6-CS

Photo ID # 65
Description EDGE CONC. DRIVE AT E. PUNT.

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 151

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	<u>Miami</u>	

Sketch (if Necessary)

Picture of Set Up

Picture # 152
LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-6-11

Weather CLOUDY 60° Time _____

File ORTHO 4-6 CS

Photo ID # 65A

Description CENTER OF INTERSECTION
350 S. + 500 E.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 153

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 154
LOOKING SW.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-13-11
Weather 45° SUNNY Time 9:30
File ORTHO-4-12-11

Photo ID # 66
Description COR CORNL. DRIVE

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Close Up

Picture # _____

348

Block (1) 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	<u>Pulaski</u>
	Orange	Boone	<u>Kosciusko</u>
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carrall	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

349

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STANSON Date 4-6-11
Weather CLOUDY 55° Time 1:30 PM
File ORTHO 4-6 CS

Photo ID # 67
Description S. SIDE OF DRIVE AT E. PUNT.

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 147

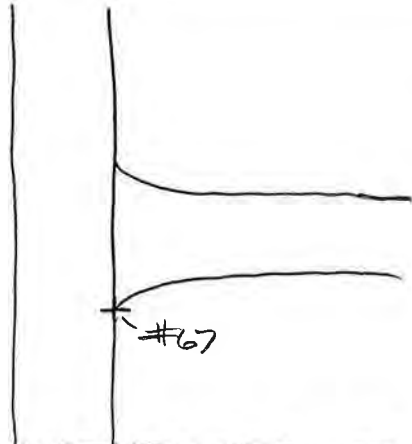
Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	<u>Wabash</u>	Other _____
	Johnson	<u>Miami</u>	

Picture of Set Up

Picture # 148
LOOKING E.

Sketch (if Necessary)



Comments / Notes MOVED POINT DUE TO GRAVEL DRIVE

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-14-11
Weather SUNNY 65° Time 1:50 PM
File ORTHO 4-14 CS

Photo ID # 68
Description COR. CONC. SIDEWALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 240

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	<u>Boone</u>	Kosciusko
	Jackson	<u>Tipton</u>	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 241
LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-13-11
Weather M. SUNNY 65° Time 12:30 PM
File ORTHO 4-13 CS

Photo ID # 69
Description COR. SIDEWALK AT N. EDGE DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 221

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	<u>Clinton</u>	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 222

LOOKING E.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STANSON Date 4-18-11
Weather Cloudy 50° Time 9:35 AM
File ORTHO 4-18 CS

Photo ID # 70
Description E. EDGE OF CONC. DRIVE
AT E. PUMT.

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 269

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	<u>Tipton</u>	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 270
LOOKING S

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-18-11
Weather CLOUDY 50° Time 9:50 AM
File ORTHO 4-18 CS

Photo ID # 70A
Description CENTER INTERSECTION
CR. 125 N + CR. 250 W

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 271

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	<u>Tipton</u>	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 272
LOOKING W

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-15-11
Weather CLOUDY/WINDY 50° Time 1:40 PM
File ORTHO 4-15 CS

Photo ID # 71
Description COR. CONC. WALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 260

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	<u>Carroll</u>	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 261

LOOKING N.E

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-8-11
Weather CLOUDY 55° Time 3:40 PM
File ORTHO 4-8 05

Photo ID # 72
Description CORNER. CONC WALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
~~INS~~ Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
All SHOTS

Close Up

Picture # 198

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	<u>Carroll</u>	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 199
LOOKING N.E.

Comments / Notes COULD NOT KEEP INCORS
FIXED

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STIKSON Date 4-7-11
Weather CLOUDY 40° Time 9:15 AM
File ORTHO 4-7 CS

Photo ID # 73
Description CORNER CONC. WALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 163

Block 1 2 3 4

County	Harrison	Morgan	<u>Cass</u>
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 164

LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STILSON Date 4-8-11
Weather RAIN 50° Time 8:00 AM
File ORTHO 4-8 CS

Photo ID # 74
Description CORNER OF PAINT STRIPE

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 181

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	<u>Wabash</u>	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 182
LOOKING SE.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-7-11
Weather CLOUDY 50° Time 2:10 PM
File ORTHO 4-7 CS

Photo ID # 75
Description SE. COR. OF SE. DRIVE TO HOUSE

Δ N: Δ E: Δ Z: Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 170

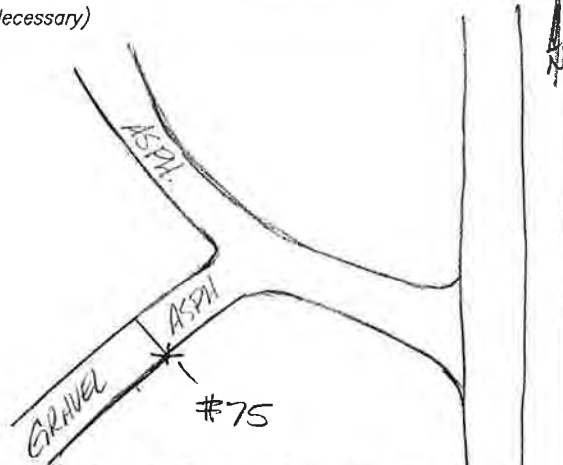
Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	<u>Wabash</u>	Other _____
	Johnson	<u>Miami</u>	

Picture of Set Up

Picture # 171
LOOKING N.W.

Sketch (if Necessary)



Comments / Notes MOVED DUE TO STOP
BAR IS WORN OFF

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-7-11
Weather CLOUDY 50° Time 2:40 PM
File ORTHO 4-7 CS

Photo ID # 75A
Description CENTER OF DRIVE AT GARAGE TO HOUSE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 172

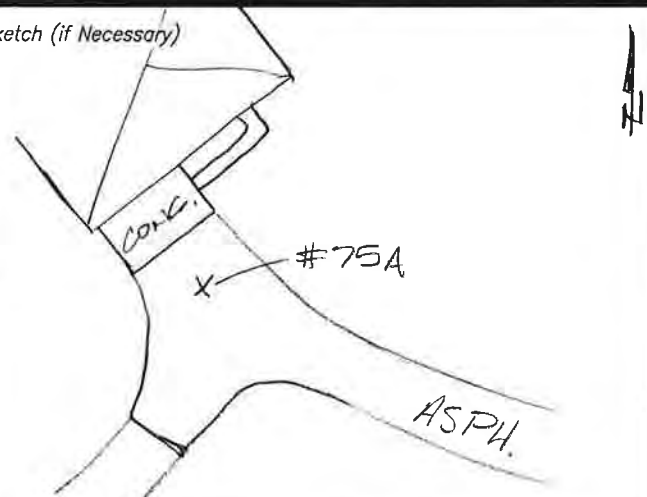
Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	<u>Wabash</u>	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 173
LOOKING N.W.

Sketch (if Necessary)



Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-7-11
Weather CLOUDY 40° Time 8:10 AM
File ORTHO 4-7 CS

Photo ID # QC41
Description CORNER CONC. WALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 161

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 162
LOOKING SW

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STANISAU Date 4-6-11
Weather M. SUNNY 60° Time 5:30 PM
File ORTHO 4-6 CS

Photo ID # QC42
Description CORNER CONG. SIDEWALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 157

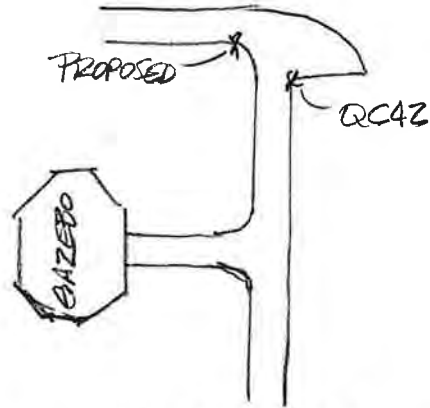
Block 1 (2) 3 4

County	Harrison	Morgan	<u>Cass</u>
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 158
LOOKING SW.

Sketch (if Necessary)



Comments / Notes MOVED DUE TO CONDITION OF PROPOSED

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STANSON Date 4-6-11
Weather P. SUNNY 60° Time 4:50 PM
File ORTHO 4-6 CS

Photo ID # QC43
Description N.W. INSIDE COR. OF SIDEWALK INTERSECTION

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 155

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 156
LOOKING N.W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-6-11
Weather CLOUDY 60° Time 2:30 PM
File ORTHO 4-6 CS

Photo ID # QC44
Description N.E. CORNER OF PAINT STRIPING AT HANDI-CAP SPOT

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

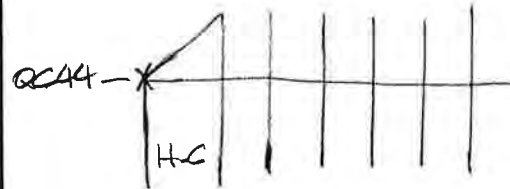
Picture # 149

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	<u>Wabash</u>	Other _____
	Johnson	Miami	

Sketch (if Necessary)

SCHOOL PK. LOT



Picture of Set Up

Picture # 150
LOOKING N.W.

Comments/Notes MOVED POINT DUE TO STRIPING CHANGES

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-8-11
Weather CLOUDY 50° Time 2:00 PM
File ORTHO 4-8 CS

Photo ID # QC45
Description CORNER CONC. WALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 194

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 195
LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STANSON Date 4-8-11
Weather CLOUDY 50° Time 10:50 AM
File ORTHO 4-8 CS

Photo ID # QC46
Description S. EDGE OF S. DRIVE TO HOUSE

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
STATIC 45 MIN.

Close Up

Picture # 189

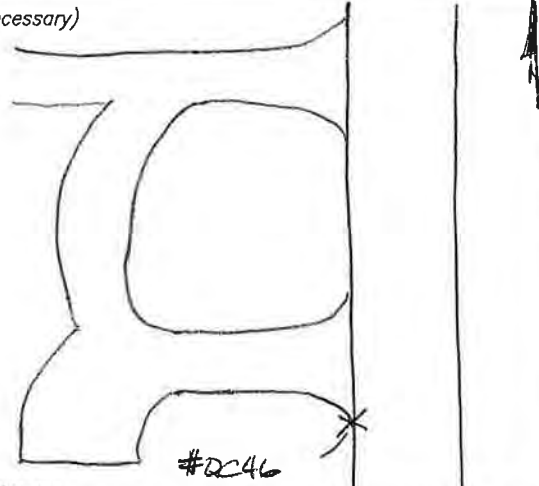
Block 1 (2) 3 4

- | | | | |
|--------|-------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Picture of Set Up

Picture # 190
LOOKING SW.

Sketch (if Necessary)



Comments / Notes
MOVED DUE TO NO STOP BAR AVAIL.

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-8-11
Weather RAIN 50° Time 8:50 AM
File ORTHO 4-8 CS

Photo ID # QC47
Description SW. COR. OF S. CENTER
TENNIS COURT

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 183

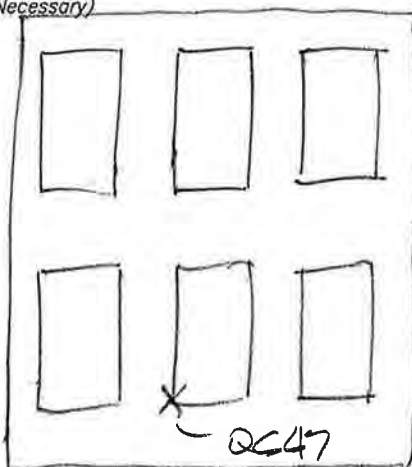
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	<u>Wabash</u>	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 184
LOOKING E.

Sketch (if Necessary)



Comments / Notes
MOVED POINT TO GET AWAY FROM
PK. LOT

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-8-11
Weather CLOUDY 55° Time 4:45 PM
File ORTHO 4-8 CS

Photo ID # QC48
Description BEND IN DRIVE S. EDGE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 200

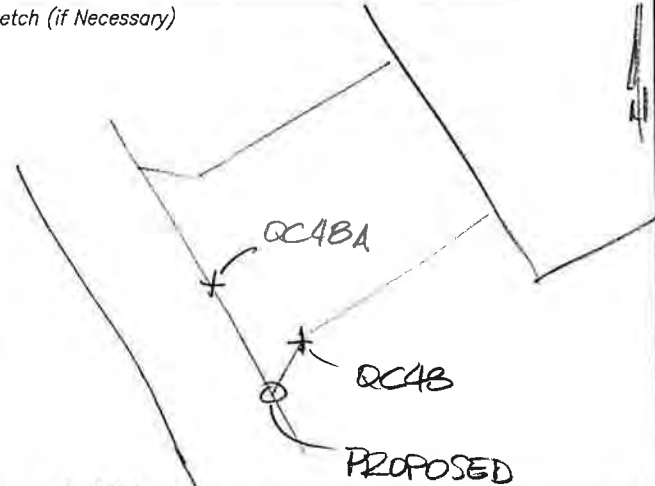
Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 201
LOOKING N.E.

Sketch (if Necessary)



Comments / Notes
MOVED DUE TO NEW PUMT. ON MAIN RD.

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-8-11
Weather CLOUDY 55° Time 5:15 PM
File ORTHO 4-8 CS

Photo ID # QC48A
Description CENTER OF DRIVE AT
E. PUMT

Δ N: Δ E: Δ Z: Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 202

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	<u>Carroll</u>	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

SEE QC48

Picture of Set Up

Picture # 203
LOOKING NE,

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-13-11
Weather M. SUNNY 40° Time 9:30AM
File ORTHO 4-13 CS

Photo ID # QC49
Description CORNER CONC. WALL

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~MARK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 216

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 217
LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-18-11
Weather M. SUNNY 60° Time 12:00 PM
File ORTHO 4-18 CS

Photo ID # QC50
Description N.W. COR. CONC. PK. LOT

△ N: △ E: △ Z: Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 277

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 278
LOOKING E.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-13-11
Weather SUNNY 65° Time 3:00 PM
File ORTHO 4-13 CS

Photo ID # QC51
Description _____

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 224

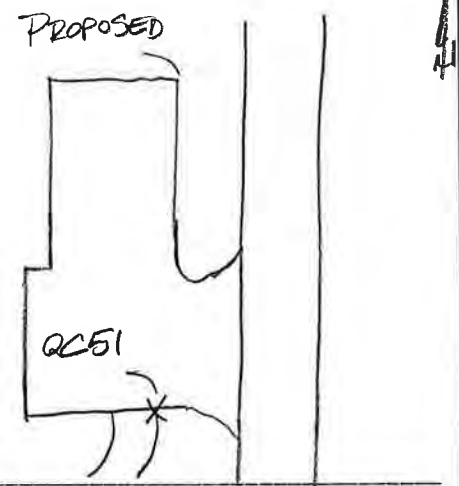
Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	<u>Clinton</u>	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 225
LOOKING W.

Sketch (if Necessary)



Comments / Notes

MOVED POINT DUE TO COR. OF DRIVE BROKEN OFF

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-14-11
Weather SUNNY 55° Time 9:50 AM
File ORTHO 4-14 CS

Photo ID # QC52
Description N.W. COR. OF SIDEWALK
AT E. PVMT. OF P.L. LOT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 229

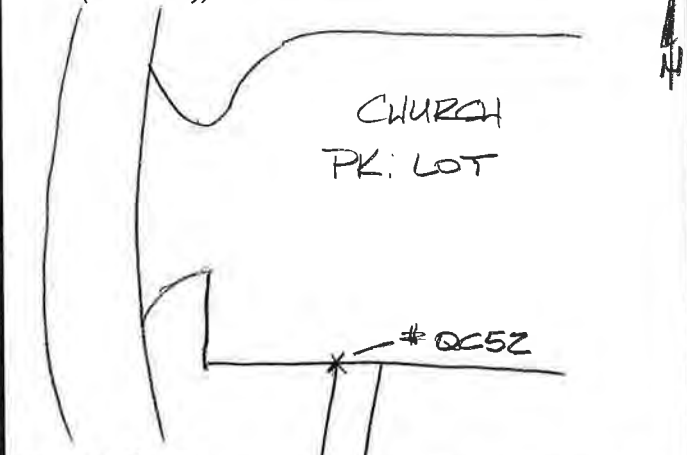
Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 230
LOOKING SE

Sketch (if Necessary)



Comments / Notes
MOVED POINT DUE TO STRIPING

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-18-11
Weather CLOUDY 50° Time 8:50 AM
File ORTHO 4-18 CS

Photo ID # QC53
Description N. SIDE CONC. DRIVE AT
E. PUNT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 265

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	<u>Tipton</u>	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 266

LOOKING E

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-18-11
Weather CLOUDY 50° Time 9:05 AM
File ORTHO 4-18 CS

Photo ID # QC53A
Description CENTER CONC. DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 267

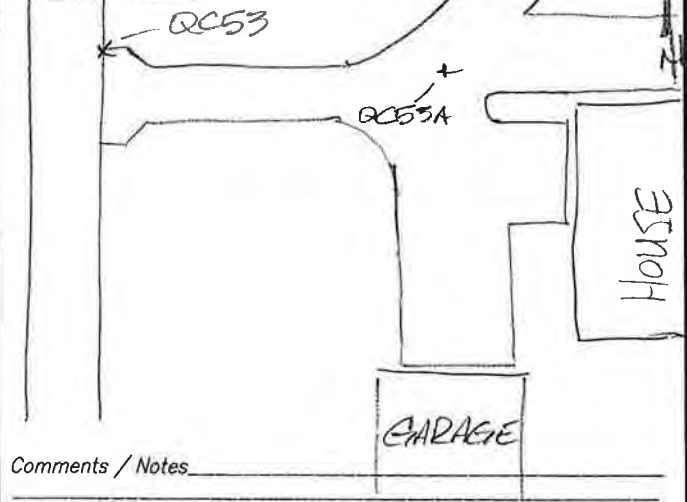
Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	<u>Tipton</u>	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 268
LOOKING S

Sketch (if Necessary)



Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-15-11
Weather P. SUNNY 45° Time 10:00 AM
File ORTHO 4-15 CS

Photo ID # WCS4
Description COR. CONC. DRIVE AT
BACK OF SIDEWALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 248

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	<u>Tipton</u>	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other_____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 249

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STILSON Date 4-14-11
Weather SUNNY 60° Time 11:45 AM
File ORTHO 4-14 CS

Photo ID # QC55
Description _____

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 233

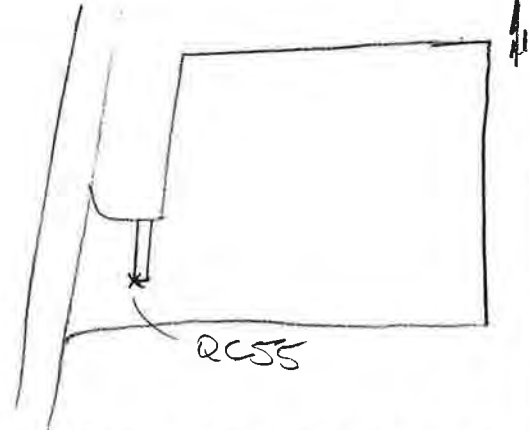
Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	<u>Boone</u>	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 234
LOOKING E.

Sketch (if Necessary)



Comments / Notes MOVED POINT DUE TO STRIPING ON COURTS IS FADED

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-14-11
Weather SUNNY 65° Time 12:50 PM
File ORTHO 4-14 CS

Photo ID # QC56
Description S. SIDE CONC. DRIVE AT E. P.V.M.T.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 236

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	<u>Boone</u>	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 237

LOOKING W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-14-11
Weather SUNNY 65° Time 1:20 PM
File ORTHO 4-14 CS

Photo ID # QC56A
Description CENTER CONC. DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m.

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 238

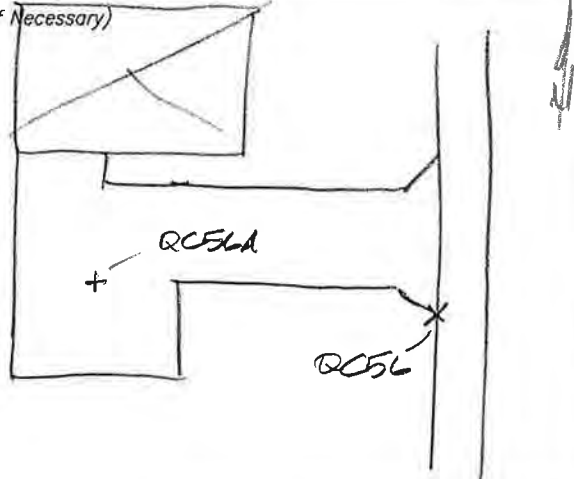
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	<u>Boone</u>	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 239
LOOKING N.

Sketch (if Necessary)



Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STANSON Date 4-14-11
Weather SUNNY 70° Time 2:30 PM
File ORTHO 4-14 CS

Photo ID # QC57
Description CORNER CONC. APPROACH

△ N: △ E: △ Z: Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 242

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 243
LOOKING NW.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-14-11
Weather SUNNY 60° Time 10:30AM
File ORTHO 4-14 CS

Photo ID # QCSB
Description CORNER ASPHALT
APPROACH

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 231

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	<u>Boone</u>	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 232

LOOKING N.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-13-11
Weather M. SUNNY 60 Time 10:45 AM
File ORTHO 4-13 CS

Photo ID # QC59
Description SE. CORNER ASPHALT
BB COURT

Δ N: Δ E: Δ Z: Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

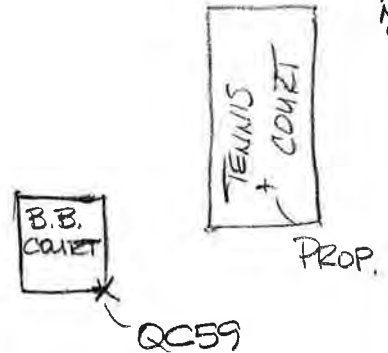
Close Up

Picture # 218

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	<u>Clinton</u>	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 219
LOOKING W.

Comments / Notes MOVED POINT DUE TO STRIPING ON TENNIS COURTS

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-15-11
Weather CLOUDY/WINDY 50° Time 12:45 PM
File ORTHO 4-15 CS

Photo ID # QCL60
Description BEND IN N. SIDE DRIVE
125'+/- E. OF ROAD

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 256

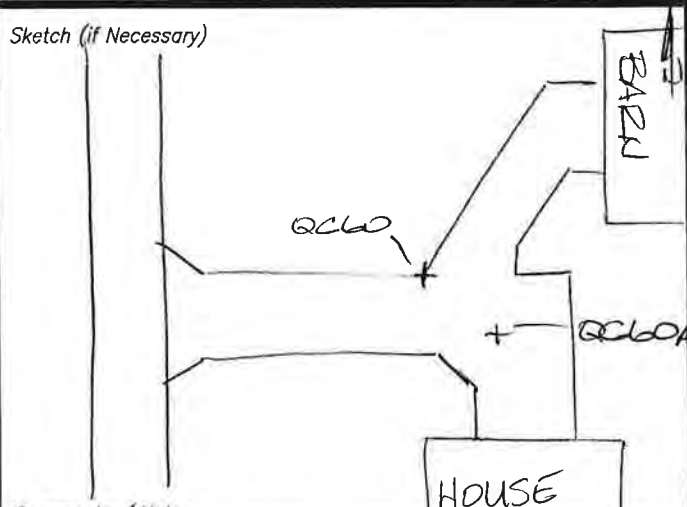
Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 257
LOOKING SE.

Sketch (if Necessary)



Comments / Notes

MOVED POINT FOR BETTER
WIND CONDITIONS

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STANSON Date 4-15-11
Weather CLOUDY/WINDY 50° Time 1:00 PM
File ORTHO 4-15 CS

Photo ID # QC60A
Description CENTER CONC. DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 258

Block 1 (2) 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	<u>Howard</u>	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

SEE POINT
QC60

Picture of Set Up

Picture # 259

LOOKING SE

Comments / Notes _____

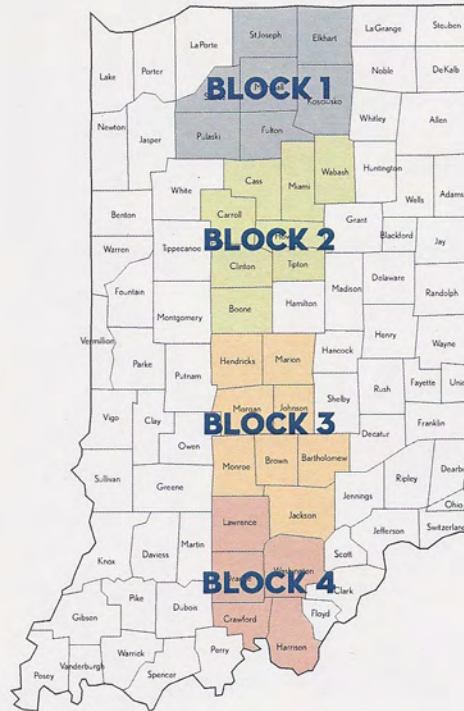
For Office Only:

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix J

Block 2 Data Disk

REPORT OF GROUND CONTROL 2011 INDIANA STATEWIDE IMAGERY & LiDAR PROGRAM



CENTRAL TIER - BLOCK 3 VOLUME 4

71177-01

REPORT OF GROUND CONTROL
2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4

Prepared for:



7635 Interactive Way
Suite 100
Indianapolis, In. 46278

Prepared By:



April 2011

Volume 4 of 5

Table of Contents

Appendix K – Block 3 Data Tables

Appendix L - Block 3 Data Sheets

Appendix M – Block 3 Field Sheets

Appendix N – Block 3 Data Disk

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix K

Block 3 Data Tables

USI Control Report



Project: 2011-024

Description: 2011 Statewide Ortho - Block 3

Client: Woolpert

Datum: North American Datum of 1983 (NRSR 2007)

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Block 3 - Photo Control

ID	Ind. East SPC		Ind. West SPC		Ind. West SPC		UTM 16N		UTM 16N East USFT	Lat.	Long.	NAVD 1988 Elevation
	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT						
25	1703922.158	44688.847	1702577.694	3066693.348	14498525.874	1730955.562	14498525.874	1730955.562	39°55'19.53785"N	86°40'37.48060"W	944.677	
26	1703722.888	146505.559	1703994.006	3168497.275	14499846.660	1832722.586	14499846.660	1832722.586	39°55'26.91081"N	86°18'50.70489"W	907.474	
27	1597815.578	39725.112	1596414.257	3063409.023	14393870.490	1727573.706	14393870.490	1727573.706	39°37'50.48933"N	86°41'25.61374"W	810.918	
28	1597559.581	142256.591	1597775.279	3165828.271	14393870.490	1830055.736	14393870.490	1830055.736	39°37'57.45548"N	86°19'35.20086"W	757.649	
29	1704097.501	192247.899	1705157.945	3218229.303	14500963.746	1882436.826	14500963.746	1882436.826	39°55'33.68953"N	86°08'12.26912"W	797.750	
30	1702678.546	251605.381	1704617.557	3273607.084	14500371.884	1937792.930	14500371.884	1937792.930	39°55'21.94236"N	85°56'21.64281"W	814.101	
31	1652917.110	142609.692	1653132.166	3165406.864	14449006.932	1829585.951	14449006.932	1829585.951	39°47'04.55261"N	86°19'35.89485"W	815.712	
32	1650142.295	190346.671	1651112.862	3213183.399	14446943.942	1877342.483	14446943.942	1877342.483	39°46'40.15994"N	86°09'24.22010"W	718.704	
33	1649328.185	247664.561	1651405.602	3270508.529	14447183.236	1934645.979	14447183.236	1934645.979	39°46'36.54573"N	85°57'10.04211"W	843.776	
34	1598800.886	193222.397	1599820.340	3216869.980	14395667.523	1880980.011	14395667.523	1880980.011	39°38'12.91571"N	86°08'43.87595"W	745.095	
35	1600237.850	242276.241	1602031.069	3265899.042	14397831.925	1929992.387	14397831.925	1929992.387	39°38'29.23212"N	85°58'16.91239"W	788.761	
36	1649995.141	96042.156	1649473.886	3118891.792	14445393.305	1733085.003	14445393.305	1733085.003	39°46'31.85973"N	86°29'32.02182"W	915.403	
37	1495128.669	46402.190	1493853.016	3071699.285	14289874.389	1735766.047	14289874.389	1735766.047	39°20'56.47665"N	86°39'45.77439"W	652.882	
38	1501867.203	159528.372	1502364.402	3184703.324	14298278.373	1848735.433	14298278.373	1848735.433	39°22'12.92480"N	86°15'46.35233"W	677.323	
39	1540737.964	123485.743	1540664.918	3148054.350	14336598.245	1812135.684	14336598.245	1812135.684	39°28'34.47656"N	86°23'29.25835"W	659.042	
40	1493209.570	205788.422	1494432.804	3231095.772	14290307.010	1895102.919	14290307.010	1895102.919	39°20'49.96108"N	86°05'56.77515"W	741.317	
41	1495306.614	249187.780	1497210.244	3274460.881	14293043.403	1938453.988	14293043.403	1938453.988	39°21'12.37597"N	85°56'44.40542"W	675.187	
42	1493668.328	323037.439	1496729.948	3348337.864	14292495.168	2012302.013	14292495.168	2012302.013	39°20'57.38249"N	85°41'04.23464"W	818.702	
42A	1493949.911	323032.896	1497011.475	3348328.905	14292776.594	2012293.318	14292776.594	2012293.318	39°21'00.16558"N	85°41'04.29317"W	815.580	
43	1446396.476	209201.244	1447675.448	3235241.340	14243563.688	1899203.856	14243563.688	1899203.856	39°13'07.43701"N	86°05'10.56898"W	947.420	
43A	1446475.222	209209.462	1447754.318	3235248.326	14243642.522	1899210.912	14243642.522	1899210.912	39°13'08.21568"N	86°05'10.46919"W	947.901	
44	1443067.168	264911.537	1445217.182	3291002.484	14241055.099	1954941.361	14241055.099	1954941.361	39°12'36.48265"N	85°53'22.69224"W	635.405	
45	1414926.792	324734.341	1418010.402	3351266.780	14213803.476	2015157.368	14213803.476	2015157.368	39°07'59.10660"N	85°40'42.50228"W	734.243	
46	1381181.723	214504.287	1382546.310	3241561.819	14178453.636	1905462.152	14178453.636	1905462.152	39°02'23.09725"N	86°03'59.53813"W	634.194	
47	1397471.141	290517.351	1400020.177	3317320.589	14195851.361	1981207.820	14195851.361	1981207.820	39°05'06.30340"N	85°47'56.42892"W	646.416	
47A	1397484.930	290497.968	1400033.664	3317300.991	14195864.861	1981186.241	14195864.861	1981186.241	39°05'06.43942"N	85°47'56.67501"W	646.903	
48	1291417.874	281268.263	1293820.392	3309719.645	14089899.536	1973512.742	14089899.536	1973512.742	38°47'37.87693"N	85°49'51.30631"W	562.050	
48A	1291411.063	281331.171	1293814.566	3309782.660	14089893.645	1973575.727	14089893.645	1973575.727	38°47'37.81073"N	85°49'50.51159"W	562.425	
49	1432776.951	83875.982	1432098.878	3110142.006	14228107.979	1774137.560	14228107.979	1774137.560	39°10'44.07771"N	86°31'41.23827"W	806.417	
50	1440909.977	166087.593	1441515.374	3192216.335	14237445.511	1856189.569	14237445.511	1856189.569	39°12'10.88009"N	86°14'17.92850"W	660.241	



USI Control Report

Project: 2011-024
 Description: 2011 Statewide Ortho - Block 3
 Client: Woolpert
 Datum: North American Datum of 1983 (NRSR 2007)
 Geoid: Geoid 09
 Units: US Survey Feet
 1 meter = (3937/1200) US Survey Feet

Block 3 - Photo Control

ID	Ind. East SPC		Ind. East SPC		Ind. West SPC		UTM 16N		UTM 16N		Lat.	Long.	NAVD 1988 Elevation
	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT	North USFT	East USFT			
51	1324563.797	220851.631	1326029.176	3248789.280	14121951.510	1912635.170	38°53'03.74097"N	86°02'36.12481"W	649.087				
QC21	1687470.855	83329.887	1686742.253	3105588.138	14482660.078	1769821.045	39°52'40.99821"N	86°32'19.50443"W	958.391				
QC22	1624901.250	117833.247	1624728.085	3141076.387	14420636.190	1805238.249	39°42'25.76718"N	86°24'50.26143"W	754.267				
QC23	1676612.735	168803.674	1677208.436	3189223.205	14473051.910	1853415.689	39°51'00.37176"N	86°14'27.93726"W	792.753				
QC24	1628428.057	164121.344	1628985.751	3187303.504	14424849.301	1851451.848	39°43'04.01367"N	86°14'58.30686"W	731.052				
QC25	1634656.359	225192.123	1636178.793	3248271.888	14431982.941	1912403.696	39°44'08.76043"N	86°01'57.09706"W	847.924				
QC26	1562758.451	74848.671	1561917.095	3099078.231	14357987.736	1763197.629	39°32'07.76433"N	86°33'52.26787"W	762.210				
QC27	1515166.140	135263.164	1515281.213	3160232.006	14311212.874	1824285.295	39°24'22.66142"N	86°20'56.60228"W	782.770				
QC27A	1515163.924	135239.948	1515278.633	3160208.828	14311210.316	1824262.123	39°24'22.63778"N	86°20'56.89783"W	781.660				
QC28	1577388.831	185995.287	1578295.823	3209980.904	14374157.587	1874073.603	39°34'40.91026"N	86°10'14.71891"W	772.755				
QC29	1537824.205	220052.800	1539269.337	3244659.133	14335113.894	1908702.490	39°28'11.54335"N	86°02'57.60623"W	725.433				
QC30	1464485.357	66237.329	1463526.126	3092010.633	14259540.122	1756041.873	39°15'55.72700"N	86°35'29.31842"W	735.112				
QC30A	1464437.496	66379.874	1463480.503	3092153.901	14259494.384	1756185.046	39°15'55.26839"N	86°35'27.50001"W	744.849				
QC31	1397781.323	109173.351	1397503.227	3135981.644	14193501.620	1799935.740	39°05'00.45897"N	86°26'16.23574"W	566.852				
QC32	1465064.651	162996.082	1465519.566	3188747.323	14261543.746	1852744.043	39°16'09.41737"N	86°14'59.17516"W	755.874				
QC33	1416498.138	187651.901	1417442.186	3214160.253	14213361.320	1878103.035	39°08'10.85503"N	86°09'42.30201"W	599.068				
QC34	1303575.918	184962.910	1304485.603	3213227.925	14100448.602	1877067.737	38°49'34.58261"N	86°10'08.52370"W	526.194				
QC35	1347038.238	255615.644	1349043.237	3283203.565	14144925.304	1947057.277	38°56'47.07617"N	85°55'17.27455"W	567.143				
QC36	1472325.020	245746.823	1474175.029	3271380.091	14270019.870	1935353.154	39°17'25.12546"N	85°57'27.26981"W	654.259				
QC37	1470423.635	299207.454	1473110.781	3324871.046	14268906.774	1988822.520	39°17'07.47979"N	85°46'07.25811"W	716.273				
QC38	1415311.780	286042.968	1417791.488	3312567.773	14213620.169	1976473.142	39°08'02.57483"N	85°48'53.54411"W	640.348				
QC38A	1415007.779	286460.260	1417493.993	3312989.820	14213322.401	1976894.753	39°07'59.57675"N	85°48'48.24194"W	636.102				
QC39	1412709.647	243592.307	1414526.839	3270157.520	14210395.698	1934076.219	39°07'35.82446"N	85°57'52.18196"W	628.632				
QC40	1678340.973	228132.205	1679908.349	3250520.459	14475693.676	1914692.108	39°51'20.60493"N	86°01'21.68616"W	860.534				

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix L

Block 3 Data Sheets

2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 25

Coordinate Values:

	Northing	Easting
Ind. East SPC:	44688.847	1703922.158
Ind. West SPC:	1702577.694	3066693.348
UTM 16N:	14498525.874	1730955.562

Geodetic Coordinates:

Latitude	Longitude
39°55'19.53785"N	86°40'37.48060"W

Orthometric Height:

NAVD 1988
944.677

Ground Photo:

Target ID: 25

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 26

Coordinate Values:

	Northing	Easting
Ind. East SPC:	146505.559	1703722.888
Ind. West SPC:	1703994.006	3168497.275
UTM 16N:	14499846.66	1832722.586

Geodetic Coordinates:

Latitude	Longitude
39°55'26.91081"N	86°18'50.70489"W

Orthometric Height:

NAVD 1988
907.474

Ground Photo:

Target ID: 26

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 26

Coordinate Values:

	Northing	Easting
Ind. East SPC:	146505.559	1703722.888
Ind. West SPC:	1703994.006	3168497.275
UTM 16N:	14499846.66	1832722.586

Geodetic Coordinates:

Latitude	Longitude
39°55'26.91081"N	86°18'50.70489"W

Orthometric Height:

NAVD 1988
907.474

Ground Photo:

Target ID: 26

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 27

Coordinate Values:

	Northing	Easting
Ind. East SPC:	39725.112	1597815.578
Ind. West SPC:	1596414.257	3063409.023
UTM 16N:	14392405.058	1727573.706

Geodetic Coordinates:

Latitude	Longitude
39°37'50.48933"N	86°41'25.61374"W

Orthometric Height:

NAVD 1988
810.918

Ground Photo:

Target ID: 27

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 28

Coordinate Values:

	Northing	Easting
Ind. East SPC:	142256.591	1597559.581
Ind. West SPC:	1597775.279	3165928.271
UTM 16N:	14393670.49	1830055.736

Geodetic Coordinates:

Latitude	Longitude
39°37'57.45548"N	86°19'35.20086"W

Orthometric Height:

NAVD 1988
757.649

Ground Photo:

Target ID: 28

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 29

Coordinate Values:

	Northing	Easting
Ind. East SPC:	196247.899	1704097.501
Ind. West SPC:	1705157.945	3218229.303
UTM 16N:	14500963.746	1882436.826

Geodetic Coordinates:

Latitude	Longitude
39°55'33.68953"N	86°08'12.26912"W

Orthometric Height:

NAVD 1988
797.75

Ground Photo:

Target ID: 29

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 30

Coordinate Values:

	Northing	Easting
Ind. East SPC:	251605.381	1702678.546
Ind. West SPC:	1704617.557	3273607.085
UTM 16N:	14500371.884	1937792.93

Geodetic Coordinates:

Latitude	Longitude
39°55'21.94236"N	85°56'21.64281"W

Orthometric Height:

NAVD 1988
814.101

Ground Photo:

Target ID: 30

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 31

Coordinate Values:

	Northing	Easting
Ind. East SPC:	142609.692	1652917.11
Ind. West SPC:	1653132.166	3165406.864
UTM 16N:	14449006.932	1829585.951

Geodetic Coordinates:

Latitude	Longitude
39°47'04.55261"N	86°19'35.89485"W

Orthometric Height:

NAVD 1988
815.712

Ground Photo:

Target ID: 31

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 32

Coordinate Values:

	Northing	Easting
Ind. East SPC:	190346.671	1650142.295
Ind. West SPC:	1651112.862	3213183.399
UTM 16N:	14446943.942	1877342.483

Geodetic Coordinates:

Latitude	Longitude
39°46'40.15994"N	86°09'24.22010"W

Orthometric Height:

NAVD 1988
718.704

Ground Photo:

Target ID: 32

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 33

Coordinate Values:

	Northing	Easting
Ind. East SPC:	247664.561	1649528.185
Ind. West SPC:	1651405.602	3270508.529
UTM 16N:	14447183.236	1934645.979

Geodetic Coordinates:

Latitude	Longitude
39°46'36.54573"N	85°57'10.04211"W

Orthometric Height:

NAVD 1988
843.776

Ground Photo:

Target ID: 33

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 34

Coordinate Values:

	Northing	Easting
Ind. East SPC:	193222.397	1598800.886
Ind. West SPC:	1599820.34	3216869.98
UTM 16N:	14395667.523	1880980.011

Geodetic Coordinates:

Latitude	Longitude
39°38'12.91571"N	86°08'43.87595"W

Orthometric Height:

NAVD 1988
745.095

Ground Photo:

Target ID: 34

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 35

Coordinate Values:

	Northing	Easting
Ind. East SPC:	242276.241	1600237.85
Ind. West SPC:	1602031.069	3265899.042
UTM 16N:	14397831.925	1929992.387

Geodetic Coordinates:

Latitude	Longitude
39°38'29.23212"N	85°58'16.91239"W

Orthometric Height:

NAVD 1988
788.761

Ground Photo:

Target ID: 35

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 36

Coordinate Values:

	Northing	Easting
Ind. East SPC:	96042.156	1649995.141
Ind. West SPC:	1649473.886	3118891.792
UTM 16N:	14445393.305	1783085.003

Geodetic Coordinates:

Latitude	Longitude
39°46'31.85973"N	86°29'32.02182"W

Orthometric Height:

NAVD 1988
915.403

Ground Photo:

Target ID: 36

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 37

Coordinate Values:

	Northing	Easting
Ind. East SPC:	46402.19	1495128.669
Ind. West SPC:	1493853.016	3071699.285
UTM 16N:	14289874.389	1735766.047

Geodetic Coordinates:

Latitude	Longitude
39°20'56.47665"N	86°39'45.77439"W

Orthometric Height:

NAVD 1988
652.882

Ground Photo:

Target ID: 37

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 38

Coordinate Values:

	Northing	Easting
Ind. East SPC:	159528.372	1501867.203
Ind. West SPC:	1502364.402	3184703.324
UTM 16N:	14298278.373	1848735.433

Geodetic Coordinates:

Latitude	Longitude
39°22'12.92480"N	86°15'46.35233"W

Orthometric Height:

NAVD 1988
677.323

Ground Photo:

Target ID: 38

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 39

Coordinate Values:

	Northing	Easting
Ind. East SPC:	123485.743	1540737.964
Ind. West SPC:	1540664.918	3148054.35
UTM 16N:	14336598.245	1812135.684

Geodetic Coordinates:

Latitude	Longitude
39°28'34.47656"N	86°23'29.25835"W

Orthometric Height:

NAVD 1988
659.042

Ground Photo:

Target ID: 39

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 40

Coordinate Values:

	Northing	Easting
Ind. East SPC:	205788.422	1493209.57
Ind. West SPC:	1494432.804	3231095.772
UTM 16N:	14290307.01	1895102.919

Geodetic Coordinates:

Latitude	Longitude
39°20'49.96108"N	86°05'56.77515"W

Orthometric Height:

NAVD 1988
741.317

Ground Photo:

Target ID: 40

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 41

Coordinate Values:

	Northing	Easting
Ind. East SPC:	249187.78	1495306.614
Ind. West SPC:	1497210.244	3274460.881
UTM 16N:	14293043.403	1938453.988

Geodetic Coordinates:

Latitude	Longitude
39°21'12.37597"N	85°56'44.40542"W

Orthometric Height:

NAVD 1988
675.187

Ground Photo:

Target ID: 41

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 42

Coordinate Values:

	Northing	Easting
Ind. East SPC:	323037.439	1493668.328
Ind. West SPC:	1496729.948	3348337.864
UTM 16N:	14292495.168	2012302.013

Geodetic Coordinates:

Latitude	Longitude
39°20'57.38249"N	85°41'04.23464"W

Orthometric Height:

NAVD 1988
818.702

Ground Photo:

Target ID: 42

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 42A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	323032.896	1493949.911
Ind. West SPC:	1497011.475	3348328.905
UTM 16N:	14292776.594	2012293.318

Geodetic Coordinates:

Latitude	Longitude
39°21'00.16558"N	85°41'04.29317"W

Orthometric Height:

NAVD 1988
815.58

Ground Photo:

Target ID: 42A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 43

Coordinate Values:

	Northing	Easting
Ind. East SPC:	209201.244	1446396.476
Ind. West SPC:	1447675.448	3235241.34
UTM 16N:	14243563.688	1899203.856

Geodetic Coordinates:

Latitude	Longitude
39°13'07.43701"N	86°05'10.56898"W

Orthometric Height:

NAVD 1988
947.42

Ground Photo:

Target ID: 43

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 43A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	209209.462	1446475.222
Ind. West SPC:	1447754.318	3235248.326
UTM 16N:	14243642.522	1899210.912

Geodetic Coordinates:

Latitude	Longitude
39°13'08.21568"N	86°05'10.46919"W

Orthometric Height:

NAVD 1988
947.901

Ground Photo:

Target ID: 43A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 44

Coordinate Values:

	Northing	Easting
Ind. East SPC:	264911.537	1443067.168
Ind. West SPC:	1445217.182	3291002.484
UTM 16N:	14241055.099	1954941.361

Geodetic Coordinates:

Latitude	Longitude
39°12'36.48265"N	85°53'22.59224"W

Orthometric Height:

NAVD 1988
635.405

Ground Photo:

Target ID: 44

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 45

Coordinate Values:

	Northing	Easting
Ind. East SPC:	324734.341	1414926.792
Ind. West SPC:	1418010.402	3351266.78
UTM 16N:	14213803.476	2015157.368

Geodetic Coordinates:

Latitude	Longitude
39°07'59.10660"N	85°40'42.50228"W

Orthometric Height:

NAVD 1988
734.243

Ground Photo:

Target ID: 45

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 46

Coordinate Values:

	Northing	Easting
Ind. East SPC:	214504.287	1381181.723
Ind. West SPC:	1382546.31	3241561.819
UTM 16N:	14178453.636	1905462.152

Geodetic Coordinates:

Latitude	Longitude
39°02'23.09725"N	86°03'59.53813"W

Orthometric Height:

NAVD 1988
634.194

Ground Photo:

Target ID: 46

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 47

Coordinate Values:

	Northing	Easting
Ind. East SPC:	290517.351	1397471.141
Ind. West SPC:	1400020.177	3317320.589
UTM 16N:	14195851.361	1981207.82

Geodetic Coordinates:

Latitude	Longitude
39°05'06.30340"N	85°47'56.42892"W

Orthometric Height:

NAVD 1988
646.416

Ground Photo:

Target ID: 47

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 47A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	290497.968	1397484.93
Ind. West SPC:	1400033.664	3317300.991
UTM 16N:	14195864.861	1981188.241

Geodetic Coordinates:

Latitude	Longitude
39°05'06.43942"N	85°47'56.67501"W

Orthometric Height:

NAVD 1988
646.903

Ground Photo:

Target ID: 47A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 48

Coordinate Values:

	Northing	Easting
Ind. East SPC:	281268.263	1291417.874
Ind. West SPC:	1293820.392	3309719.645
UTM 16N:	14089699.536	1973512.742

Geodetic Coordinates:

Latitude	Longitude
38°47'37.87693"N	85°49'51.30631"W

Orthometric Height:

NAVD 1988
562.05

Ground Photo:

Target ID: 48

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 48A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	281331.171	1291411.063
Ind. West SPC:	1293814.556	3309782.66
UTM 16N:	14089693.645	1973575.727

Geodetic Coordinates:

Latitude	Longitude
38°47'37.81073"N	85°49'50.51159"W

Orthometric Height:

NAVD 1988
562.425

Ground Photo:

Target ID: 48A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 49

Coordinate Values:

	Northing	Easting
Ind. East SPC:	83875.982	1432776.951
Ind. West SPC:	1432098.878	3110142.006
UTM 16N:	14228107.979	1774137.56

Geodetic Coordinates:

Latitude	Longitude
39°10'44.07771"N	86°31'41.23827"W

Orthometric Height:

NAVD 1988
806.417

Ground Photo:

Target ID: 49

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 50

Coordinate Values:

	Northing	Easting
Ind. East SPC:	166087.593	1440909.977
Ind. West SPC:	1441515.374	3192216.335
UTM 16N:	14237445.511	1856189.569

Geodetic Coordinates:

Latitude	Longitude
39°12'10.88009"N	86°14'17.92850"W

Orthometric Height:

NAVD 1988
660.241

Ground Photo:

Target ID: 50

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 51

Coordinate Values:

	Northing	Easting
Ind. East SPC:	220851.631	1324563.797
Ind. West SPC:	1326029.176	3248789.28
UTM 16N:	14121951.51	1912635.17

Geodetic Coordinates:

Latitude	Longitude
38°53'03.74097"N	86°02'36.12481"W

Orthometric Height:

NAVD 1988
649.087

Ground Photo:

Target ID: 51

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC21

Coordinate Values:

	Northing	Easting
Ind. East SPC:	83329.887	1687470.855
Ind. West SPC:	1686742.253	3105588.138
UTM 16N:	14482660.078	1769821.045

Geodetic Coordinates:

Latitude	Longitude
39°52'40.99821"N	86°32'19.50443"W

Orthometric Height:

NAVD 1988
958.391

Ground Photo:

Target ID: QC21

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC22

Coordinate Values:

	Northing	Easting
Ind. East SPC:	117833.247	1624901.25
Ind. West SPC:	1624728.085	3141076.387
UTM 16N:	14420636.19	1805238.249

Geodetic Coordinates:

Latitude	Longitude
39°42'25.76718"N	86°24'50.26143"W

Orthometric Height:

NAVD 1988
754.267

Ground Photo:

Target ID: QC22

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC23

Coordinate Values:

	Northing	Easting
Ind. East SPC:	166803.674	1676612.735
Ind. West SPC:	1677208.436	3189223.205
UTM 16N:	14473051.91	1853415.689

Geodetic Coordinates:

Latitude	Longitude
39°51'00.37176"N	86°14'27.93726"W

Orthometric Height:

NAVD 1988
792.753

Ground Photo:

Target ID: QC23

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC24

Coordinate Values:

	Northing	Easting
Ind. East SPC:	164121.344	1628428.057
Ind. West SPC:	1628985.751	3187303.504
UTM 16N:	14424849.301	1851451.848

Geodetic Coordinates:

Latitude	Longitude
39°43'04.01367"N	86°14'58.30686"W

Orthometric Height:

NAVD 1988
731.052

Ground Photo:

Target ID: QC24

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC25

Coordinate Values:

	Northing	Easting
Ind. East SPC:	225192.123	1634656.359
Ind. West SPC:	1636178.793	3248271.888
UTM 16N:	14431982.941	1912403.696

Geodetic Coordinates:

Latitude	Longitude
39°44'08.76043"N	86°01'57.09706"W

Orthometric Height:

NAVD 1988
847.924

Ground Photo:

Target ID: QC25

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC26

Coordinate Values:

	Northing	Easting
Ind. East SPC:	74848.671	1562758.451
Ind. West SPC:	1561917.095	3099078.231
UTM 16N:	14357887.736	1763197.629

Geodetic Coordinates:

Latitude	Longitude
39°32'07.76433"N	86°33'52.26787"W

Orthometric Height:

NAVD 1988
762.21

Ground Photo:

Target ID: QC26

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC27

Coordinate Values:

	Northing	Easting
Ind. East SPC:	135263.164	1515166.14
Ind. West SPC:	1515281.213	3160232.006
UTM 16N:	14311212.874	1824285.295

Geodetic Coordinates:

Latitude	Longitude
39°24'22.66142"N	86°20'56.60228"W

Orthometric Height:

NAVD 1988
782.77

Ground Photo:

Target ID: QC27

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC27A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	135239.948	1515163.924
Ind. West SPC:	1515278.633	3160208.828
UTM 16N:	14311210.316	1824262.123

Geodetic Coordinates:

Latitude	Longitude
39°24'22.63778"N	86°20'56.89783"W

Orthometric Height:

NAVD 1988
781.66

Ground Photo:

Target ID: QC27A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC28

Coordinate Values:

	Northing	Easting
Ind. East SPC:	185995.287	1577388.831
Ind. West SPC:	1578295.823	3209980.904
UTM 16N:	14374157.587	1874073.603

Geodetic Coordinates:

Latitude	Longitude
39°34'40.91026"N	86°10'14.71891"W

Orthometric Height:

NAVD 1988
772.755

Ground Photo:

Target ID: QC28

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC29

Coordinate Values:

	Northing	Easting
Ind. East SPC:	220052.8	1537824.205
Ind. West SPC:	1539269.337	3244659.133
UTM 16N:	14335113.894	1908702.49

Geodetic Coordinates:

Latitude	Longitude
39°28'11.54335"N	86°02'57.60623"W

Orthometric Height:

NAVD 1988
725.433

Ground Photo:

Target ID: QC29

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC30

Coordinate Values:

	Northing	Easting
Ind. East SPC:	66237.329	1464485.357
Ind. West SPC:	1463526.126	3092010.633
UTM 16N:	14259540.122	1756041.873

Geodetic Coordinates:

Latitude	Longitude
39°15'55.72700"N	86°35'29.31842"W

Orthometric Height:

NAVD 1988
735.112

Ground Photo:

Target ID: QC30

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC30A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	66379.874	1464437.496
Ind. West SPC:	1463480.503	3092153.901
UTM 16N:	14259494.384	1756185.046

Geodetic Coordinates:

Latitude	Longitude
39°15'55.26839"N	86°35'27.50001"W

Orthometric Height:

NAVD 1988
744.849

Ground Photo:

Target ID: QC30A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC31

Coordinate Values:

	Northing	Easting
Ind. East SPC:	109173.351	1397781.323
Ind. West SPC:	1397503.227	3135981.644
UTM 16N:	14193501.62	1799935.74

Geodetic Coordinates:

Latitude	Longitude
39°05'00.45897"N	86°26'16.23574"W

Orthometric Height:

NAVD 1988
566.852

Ground Photo:

Target ID: QC31

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC32

Coordinate Values:

	Northing	Easting
Ind. East SPC:	162996.082	1465064.651
Ind. West SPC:	1465619.566	3188747.323
UTM 16N:	14261543.746	1852744.043

Geodetic Coordinates:

Latitude	Longitude
39°16'09.41737"N	86°14'59.17516"W

Orthometric Height:

NAVD 1988
755.874

Ground Photo:

Target ID: QC32

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC33

Coordinate Values:

	Northing	Easting
Ind. East SPC:	187651.901	1416498.138
Ind. West SPC:	1417442.186	3214160.253
UTM 16N:	14213361.32	1878103.035

Geodetic Coordinates:

Latitude	Longitude
39°08'10.85503"N	86°09'42.30201"W

Orthometric Height:

NAVD 1988
599.068

Ground Photo:

Target ID: QC33

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC34

Coordinate Values:

	Northing	Easting
Ind. East SPC:	184962.91	1303575.918
Ind. West SPC:	1304485.603	3213227.925
UTM 16N:	14100448.602	1877067.737

Geodetic Coordinates:

Latitude	Longitude
38°49'34.58261"N	86°10'08.52370"W

Orthometric Height:

NAVD 1988
526.194

Ground Photo:

Target ID: QC34

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC35

Coordinate Values:

	Northing	Easting
Ind. East SPC:	255615.644	1347038.238
Ind. West SPC:	1349043.237	3283203.565
UTM 16N:	14144925.304	1947057.277

Geodetic Coordinates:

Latitude	Longitude
38°56'47.07617"N	85°55'17.27455"W

Orthometric Height:

NAVD 1988
567.143

Ground Photo:

Target ID: QC35

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC36

Coordinate Values:

	Northing	Easting
Ind. East SPC:	245746.823	1472325.02
Ind. West SPC:	1474175.029	3271380.091
UTM 16N:	14270019.87	1935353.154

Geodetic Coordinates:

Latitude	Longitude
39°17'25.12546"N	85°57'27.26981"W

Orthometric Height:

NAVD 1988
654.259

Ground Photo:

Target ID: QC36

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: QC37

Coordinate Values:

	Northing	Easting
Ind. East SPC:	299207.454	1470423.635
Ind. West SPC:	1473110.781	3324871.046
UTM 16N:	14268906.774	1988822.52

Geodetic Coordinates:

Latitude	Longitude
39°17'07.47979"N	85°46'07.25811"W

Orthometric Height:

NAVD 1988
716.273

Ground Photo:

Target ID: QC37

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: QC38

Coordinate Values:

	Northing	Easting
Ind. East SPC:	286042.968	1415311.78
Ind. West SPC:	1417791.488	3312567.773
UTM 16N:	14213620.169	1976473.142

Geodetic Coordinates:

Latitude	Longitude
39°08'02.57483"N	85°48'53.54411"W

Orthometric Height:

NAVD 1988
640.348

Ground Photo:

Target ID: QC38

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC38A

Coordinate Values:

	Northing	Easting
Ind. East SPC:	286460.26	1415007.779
Ind. West SPC:	1417493.993	3312989.82
UTM 16N:	14213322.401	1976894.753

Geodetic Coordinates:

Latitude	Longitude
39°07'59.57675"N	85°48'48.24194"W

Orthometric Height:

NAVD 1988
636.102

Ground Photo:

Target ID: QC38A

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC39

Coordinate Values:

	Northing	Easting
Ind. East SPC:	243592.307	1412709.647
Ind. West SPC:	1414526.839	3270157.52
UTM 16N:	14210395.698	1934076.219

Geodetic Coordinates:

Latitude	Longitude
39°07'35.82446"N	85°57'52.18196"W

Orthometric Height:

NAVD 1988
628.632

Ground Photo:

Target ID: QC39

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 3

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC40

Coordinate Values:

	Northing	Easting
Ind. East SPC:	228132.205	1678340.973
Ind. West SPC:	1679908.349	3250520.459
UTM 16N:	14475693.676	1914692.108

Geodetic Coordinates:

Latitude	Longitude
39°51'20.60493"N	86°01'21.68616"W

Orthometric Height:

NAVD 1988
860.534

Ground Photo:

Target ID: QC40

[Link to Picture](#)



2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix M

Block 3 Field Sheets

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-1-2011
Weather 40° CLOUDY Time 1 PM
File DRTHO-SM-4-1-11

Photo ID # 25
Description MOVED TO COR. OF CONC. DRIVE @
GRAVEL

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____
204

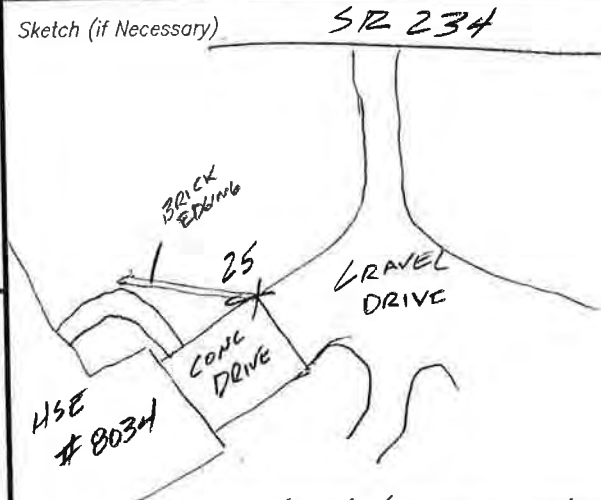
Block 1 2 (3) 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	<u>Hendricks</u>	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # _____
205

Sketch (if Necessary)



Comments / Notes ORIGINAL LOCATION WAS A
PAINTED STOP BAR THAT WAS NO LONGER
VISIBLE. MOVED TO A NEWER BACK HSE
ABOUT 700'-800' DUE EAST OF ORIGINAL
LOCATION

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-5-11
Weather P. SUNNY 45° Time 12:10 PM
File ORTHO 4-5 CS

Photo ID # 26
Description CORNER OF SIDEWALK

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 137

Block 1 2 (3) 4

County	Harrison	<u>Morgan</u>	Cass
	Crawford	<u>Marion</u>	Fulton
	Washington	<u>Hendricks</u>	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 138
LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-1-2011
Weather 35° CLOUDY Time 9:30
File ORTHO-SM-4-1-11

Photo ID # 27
Description CORS OF CONC SIDEWALKS

△ N: △ E: △ Z: Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>PULASKY</u>
	Johnson	Miami	

Close Up

Picture # _____

200

Sketch (if Necessary)

Picture of Set Up

Picture # _____

201

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-31-2011
Weather 45° F Sunny Time 3:00
File ORTHO-5M-3-31-11

Photo ID # 28
Description CORS. OF CONCL. SIDEWALK

△ N: △ E: △ Z: Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Block 1 2 3 4

Close Up

Picture # _____

196

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	<u>Hendricks</u>	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

197

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-5-11
Weather M. SUNNY 45° Time 11:20 AM
File ORTHO 4-5 CS

Photo ID # 29
Description S.E. CORNER OF TENNIS COURT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 135

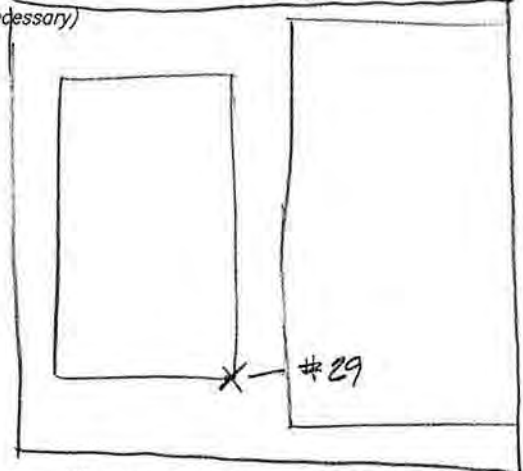
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 136
LOOKING N.

Sketch (if Necessary)



Comments / Notes MOVED DUE TO GRADE BREAKS TO TENNIS COURT DUE SOUTH

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-5-11
Weather M. SUNNY 40° Time 10:00 AM
File ORTHO 4-5 CS

Photo ID # 30
Description BEND IN DRIVE ON E. SIDE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

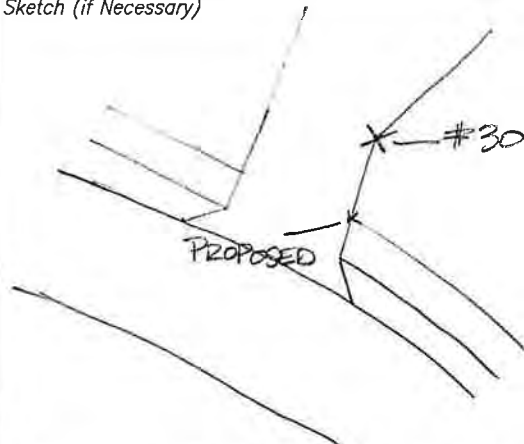
Close Up

Picture # 133

Block 1 2 (3) 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 134

LOOKING N.

Comments/Notes MOVED POINT TO GET AWAY FROM CURBS

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-5-11
Weather P. SUNNY 45° Time 1:40 PM
File ORTHO 4-5 CS

Photo ID # 31
Description CORNER CONK. WALK

△ N: △ E: △ Z: Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

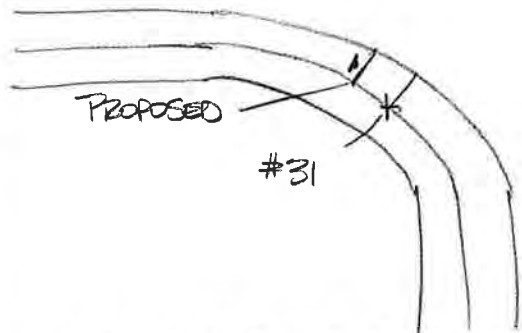
Picture # 141

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	<u>Hendricks</u>	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

LINDEN WAY



Picture of Set Up

Picture # 142
LOOKING W.

Comments / Notes MOVED TO OPPOSITE CORNER DUE TO STOP SIGN

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-5-11
Weather P. SUNNY 50° Time 3:15 PM
File _____

Photo ID # 32
Description BACK OF WALK AT BACK
OF LIMESTONE EDGEING

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 143

Block 1 2 (3) 4

County	Harrison	Morgan	Cass
	Crawford	<u>Marion</u>	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 144

LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-5-11
Weather P. SUNNY 40° Time 8:30AM
File ORTHO 4-5 CS

Photo ID # 33
Description SE CORNER OF SIDEWALK
BRICK INSERT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m.
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 129

Block 1 2 (3) 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other_____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 130
LOOKING N.W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-1-11
Weather CLOUDY / RAIN 45° Time 3:00 PM
File ORTHO 4-1 CS

Photo ID # 34
Description BB COURT STRIPES

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

~~INCORS~~ Obs. 1 Obs. 2 Ant. Type R6 5800
~~MWRTE~~
MWRTE Obs. 1 Obs. 2 TSC 2 #5 #6

ALL SHOTS VRS / INCORS WOULDNT START

Block 1 2 3 4

Close Up

Picture # 124

- | | | | |
|--------|----------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | <u>Johnson</u> | Miami | |

Sketch (if Necessary)

Picture of Set Up

Picture # 125

LOOKING S

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-1-11
Weather CLOUDY / RAIN 45° Time 3:40 PM
File ORTHO 4-1 CS

Photo ID # 35
Description COR CONC. WALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 126

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 127
LOOKING SE.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-1-2011
Weather 35° CLOUDY Time 2:30
File ORTHO-SM-4-1-11

Photo ID # 34
Description COR. S.W. WALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up Picture # _____

208

Block 1 2 3 4
County Harrison Morgan
Crawford Marion
Washington Hendricks
Orange Boone
Jackson Tipton
Lawrence Clinton
Bartholomew Howard
Brown Carroll
Monroe Wabash
Johnson Miami
Cass
Fulton
Pulaski
Kosciusko
Marshall
Starke
Elkhart
St. Joseph
Other _____

Picture of Set Up Picture # _____

209

Sketch (if Necessary)

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-30-2011
Weather 35° CLOUDY Time 2:15
File ORTHO-SM-3-30-11

Photo ID # 37
Description CONC. COR OF SIDEWALKS

△ N: △ E: △ Z: Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>OWEN</u>
	Johnson	Miami	

Close Up

Picture # _____

175

Sketch (if Necessary)

Picture of Set Up

Picture # _____

176

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-31-2011
Weather 35° SUNNY Time 9:45
File ORTHO-SM-3-31-11

Photo ID # 38
Description SIDEWALK CORN.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

185

Block 1 2 3 4

County	Harrison	<u>Morgan</u>	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

186

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-31-2011
Weather 40° SUNNY Time 12:00
File ORTHO-SM-3-31-11

Photo ID # 39
Description COR. OF TENNIS COURT

△ N: △ E: △ Z: Ant. Ht. 1.0 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Block 1 2 (3) 4

Close Up

Picture # _____

190

County	Harrison	<u>Morgan</u>	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

191

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINEON Date 4-1-11
Weather CLOUDY 45° Time 12:25 PM
File ORTHO 4-1 CS

Photo ID # 40
Description COR. B.B. COURT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # 118

Sketch (if Necessary)

Picture of Set Up

Picture # 119
LOOKING SW

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-1-11
Weather CLOUDY 40° Time 11:30 AM
File ORTHO 4-1 CS

Photo ID # 41
Description SW. COR. CONC. PAD AT SW COR. GOLF COURSE PK. LOT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 116

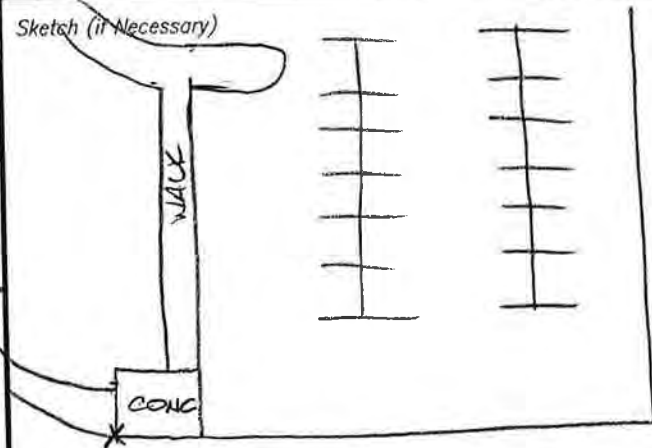
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>SHELBY</u>
	Johnson	Miami	

Picture of Set Up

Picture # 117
LOOKING N.

Sketch (if Necessary)



Comments / Notes MOVED LOCATION DUE TO CURB

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-31-11
Weather M. Clouds 45° Time 2:00 PM
File ORTHO 3-31 CS

Photo ID # 42
Description N. SIDE OF DRIVE AT E. PUMT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.0m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 97

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 98

Comments / Notes MOVED TO THIS LOCATION
DUE TO REPAVING AT INTERSECTION

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-31-11
Weather P. SUNNY Time 2:30 PM
File ORTHO 3-31 CS

Photo ID # 42A
Description INTERSECTION 1000 N,
1200 E

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

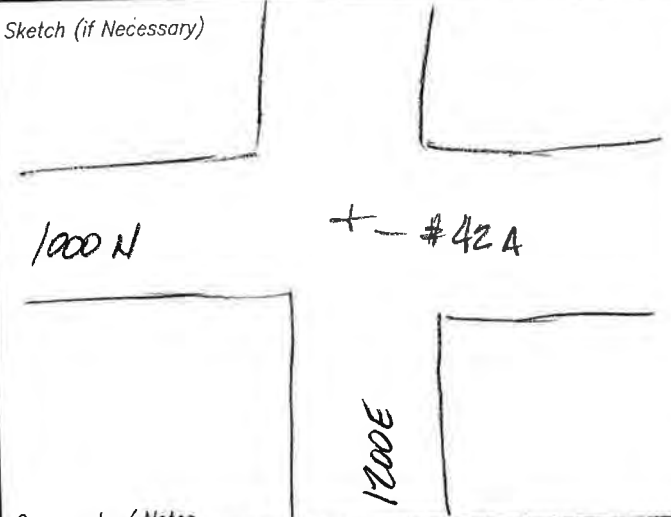
Close Up

Picture # 99

Block 1 2 3 4

- | | | | |
|--------|--------------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | <u>Bartholomew</u> | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Sketch (if Necessary)



Picture of Set Up

Picture # 100

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-1-11
 Weather CLOUDY 40° Time 8:30 AM
 File ORTHO 4-1 CS

Photo ID # 43
 Description CORNER CONC. DRIVE AT E. PVMT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
 InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
 MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 108

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 109
LOOKING W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STILSON Date 4-1-11
 Weather CLOUDY 40° Time 8:45 AM
 File ORTHO 4-1 CS

Photo ID # 43A
 Description CENTER OF INTERSECTION
 NELSON RIDGE & GEORGETOWN

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
 InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
 MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 110

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 111
LOOKING SW.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-31-11
Weather M. CLOUDY 50° Time 4:30 PM
File ORTHO 3-31 CS

Photo ID # 44
Description CORNER OF CONC. SIDEWALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 104

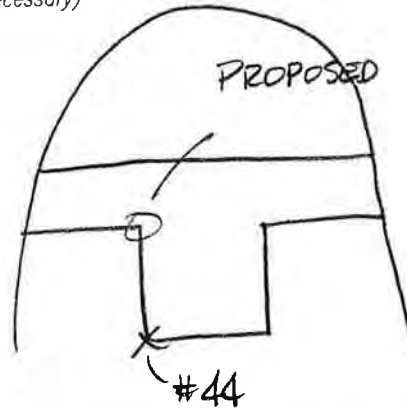
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 105

Sketch (if Necessary)



Comments / Notes MOVED POINT TO CLEAR
A GRADE BREAK

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STINEAL Date 3-31-11
 Weather M. Clouds 40° Time 11:15 AM
 File ORTHO 3-31 CS

Photo ID # 45
 Description N.E. COR. CONC. APPROACH
 TO GARAGE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
 InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
 MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 94

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 95
LOOKING SW

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-1-11
Weather CLOUDY 40° Time 7:45 AM
File ORTHO 4-1 CS

Photo ID # 46
Description PVMT. COLOR CHANGE
N. SIDE DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 106

Block 1 2 3 4

- | | | | |
|--------|--------------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | <u>Bartholomew</u> | Howard | Elkhart |
| | <u>Brown</u> | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Picture of Set Up

Picture # 107
LOOKING N.

Sketch (if Necessary)

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-30-11
Weather M. Cloudy 35° Time 1:45 PM
File ORTHO 3-30 CS

Photo ID # 47
Description COR. CONC. DRIVE AT E. PVMT.

△ N: △ E: △ Z: Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 81

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 82
LOOKING W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-30-11
Weather M. CLOUDY 35° Time 2:15 PM
File ORTHO 3-30 CS

Photo ID # 47A
Description ∅ OF CONC. DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

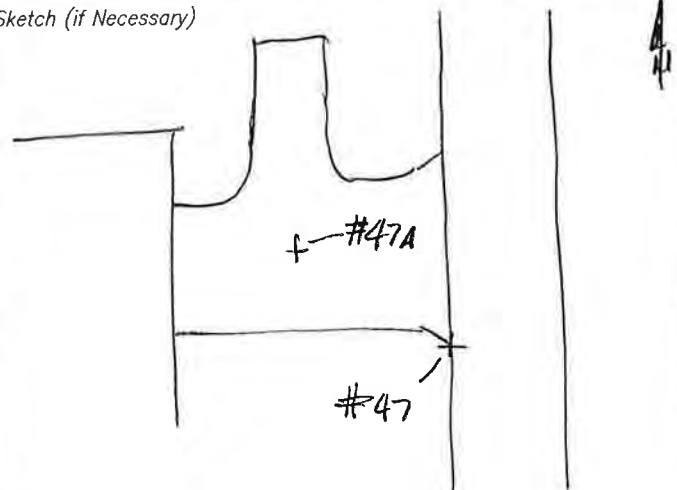
Close Up

Picture # 83

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 84

LOOKING W

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-30-11
Weather CLOUDY/SNOW 40° Time 11:00 AM
File ORTHO 3-30 CS

Photo ID # 48
Description COR CORN. DRIVE AT E. PUMT.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 76

Block 1 2 (3) 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 77

LOOKING N

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-30-11
Weather CLOUDY/SNOW 40° Time 11:30 AM
File ORTHO 3-30 CS

Photo ID # 48A
Description INTERSECTION OF MAIN ST & EAST ST

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. _____
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

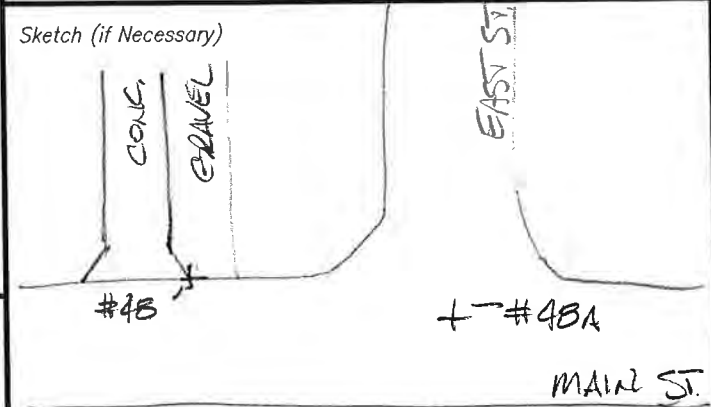
Close Up

Picture # 7B

Block 1 2 (3) 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 7A

LOOKING NE.

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-30-2011
Weather 35° SUNNY Time 12:30
File ORTHO-SM-3-30-11

Photo ID # 49
Description CONCL. SIDEWALK COR.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	<u>Monroe</u>	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

170

Sketch (if Necessary)

Picture of Set Up

Picture # _____

171

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-30-2011

Weather 40° CLOUDY Time 5:45

File ORTHO-SM-3-30-11

Photo ID # 50

Description PARKING SPACE PAINTED
LINE

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5706

Close Up

Picture # _____

180

Block 1 2 3 4

- | | | | |
|--------|--------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | <u>Brown</u> | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Sketch (if Necessary)

Picture of Set Up

Picture # _____

181

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-29-11
Weather P. SUNNY 50° Time 1:15 PM
File _____

Photo ID # 51
Description COR. CONC.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~MMRTK~~ Obs. 1 Obs. 2 TSC 2 #~~5~~ #6

INT. BASE

Close Up

Picture # 60

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 61
LOOKING SW.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-1-11
Weather 35° CLOUDY Time 1:45
File ORTHO-SM-4-1-11

Photo ID # QC21
Description COR. CONT. WALK @ ASPX

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.84

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5900 ★

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	<u>Hendricks</u>	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

206

Sketch (if Necessary)

Picture of Set Up

Picture # _____

207

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 4-1-2011
Weather 40° Cloudy Time 3pm
File ORTHO-5M-4-1-11

Photo ID # 0222
Description COR. OF SIDEWALK @ CIRCLE
SIDEWALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

210

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	<u>Hendricks</u>	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

211

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-5-11
Weather P. SUNNY 45° Time 12:45 PM
File ORTHO 4-5 CS

Photo ID # QC23
Description CORNER COR. WALK

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	<u>Marion</u>	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # 139

Sketch (if Necessary)

Picture of Set Up

Picture # 140

LOOKING E.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SMITH, COL Date 4-5-11
Weather P. SUNNY 50° Time 2:40 PM
File ORTHO 4-5 CS

Photo ID # DC24
Description COE. CORN. FIRE WALK

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # _____

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-5-11
Weather P. SUNNY 50° Time 4:45 PM
File ORTHO 4-5 CS

Photo ID # QC25
Description CORNER CONC. PAD AT
POOL HOUSE (S.W. COR)

Δ N: Δ E: Δ Z: Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

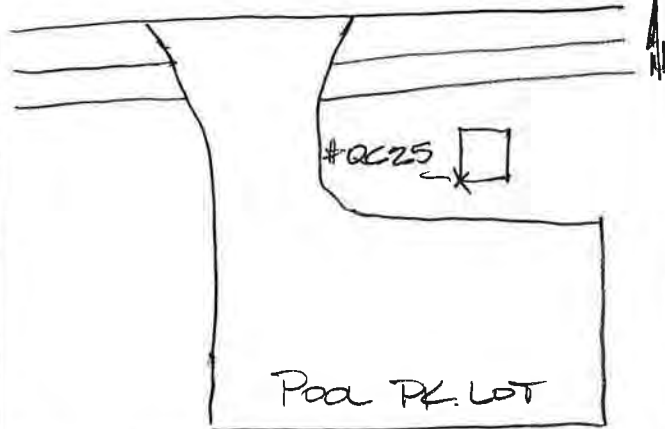
Close Up

Picture # 145

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 146

Comments / Notes MOVED POINT TO GET
AWAY FROM CURBS

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-31-2011
Weather 40° SUNNY Time 1:15
File ORTHO-SM-3-31-11

Photo ID # 0226
Description COR. CONK. DRIVE

△ N: △ E: △ Z: Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

193

Block 1 2 3 4

County	Harrison	<u>Morgan</u>	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

194

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-31-2011
Weather 40° Sunny Time 10:15
File ORTHO-SM-3-31-11

Photo ID # QC27
Description COR. OF CONC. DRIVE @ ASPH ROAD

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____
187

Block 1 2 3 4
County Harrison Morgan Cass
Crawford Marion Fulton
Washington Hendricks Pulaski
Orange Boone Kosciusko
Jackson Tipton Marshall
Lawrence Clinton Starke
Bartholomew Howard Elkhart
Brown Carroll St. Joseph
Monroe Wabash Other _____
Johnson Miami

Sketch (if Necessary)

Picture of Set Up

Picture # _____
188

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-31-2011
Weather 40° SUNNY Time 10:30
File ORTHO-SM-3-31-11

Photo ID # QC27B
Description CENTER OF CONC. DRIVE
SAME DRIVE QC27

△ N: △ E: △ Z: Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
INCORS NEAREST 3 #5700

Close Up

Picture # _____

Block 1 2 3 4

County	Harrison	<u>Morgan</u>	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

189

Comments / Notes: _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-1-11
Weather CLOUDY/RAIN 45° Time 2:10 PM
File ORTHO 4-1 CS

Photo ID # QC28
Description CORNER OF SIDEWALK INTERSECTION

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 122

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	<u>Johnson</u>	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 123
LOOKING S.W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-1-11
Weather CLOUDY 45° Time 1:30 PM
File ORTHO 4-1 CS

Photo ID # QC29
Description CORNER OF ASPHALT PK.
LOT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

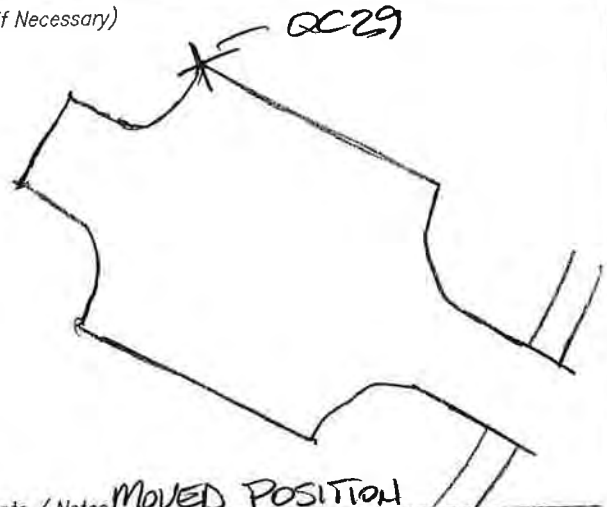
Close Up

Picture # 120

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 121
LOOKING NE.

Comments / Notes MOVED POSITION
TO GET AWAY FROM CURBS

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-30-2011

Weather 35° Cloudy Time 1:15

File ORTHO-SM-3-30-11

Photo ID # QC30

Description COR. CONC. DRIVE @ EDGES OF ASPH

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

5700

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	<u>Monroe</u>	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

172

Sketch (if Necessary)

Picture of Set Up

Picture # _____

173

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-30-2011
Weather 35° CLOUDY Time 1:30
File ORTHO-SM-3-30-11

Photo ID # QC30 B
Description CENTER OF CONC. B-BALL COURT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Close Up

Picture # _____

174

Block 1 2 (3) 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	<u>Brown</u>	Carroll	St. Joseph
	<u>Monroe</u>	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

Comments / Notes CENTER OF COURT WAS THE ONLY PLACE I COULD FIND 30X25' ENTIRE SUBDIVISION BUILT ON SIDE OF HILL

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-30-2011

Weather 35° Cloudy Time 11:00 AM

File ORTHO-SM-3-30-11

Photo ID # QC31

Description COR. OF PAINTED STOP BAR

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Block 1 2 (3) 4

Close Up

Picture # _____

167

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	<u>Monroe</u>	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

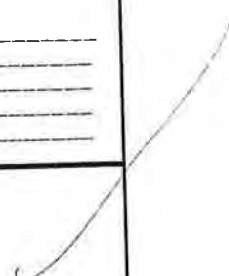
Picture of Set Up

Picture # _____

168

Comments / Notes

For Office Only:



Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-30-2011

Weather 40° cloudy Time 5 PM

File ORTHO-SM-3-30-11

Photo ID # QC32

Description PAINTED COR. IN ASPH. P-LOT
MOVED FROM ORIGINAL SPOT

△ N: △ E: △ Z: Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 (3) 4

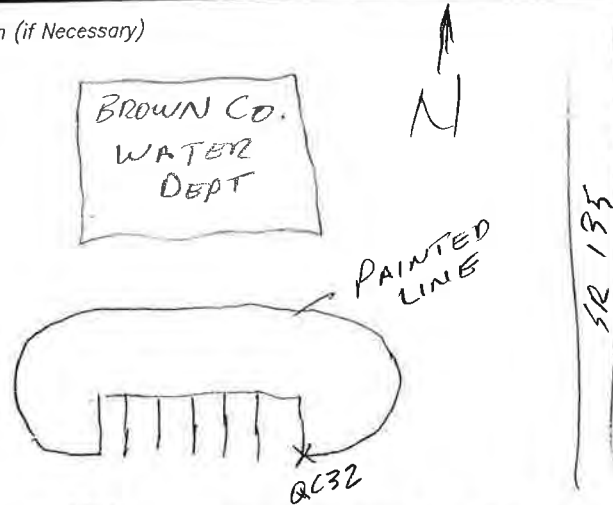
County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	<u>Brown</u>	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

178

Sketch (if Necessary)



Picture of Set Up

Picture # _____

179

Comments / Notes

ORIGINAL LOCATION IS GRAVEL
P-LOT, NO HARD SURFACE

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-31-2011
Weather 35° Sunny Time 8 AM
File ORTHO-SM-3-31-11

Photo ID # QC 33
Description NE COR. OF PAINTED PARKING STRIP

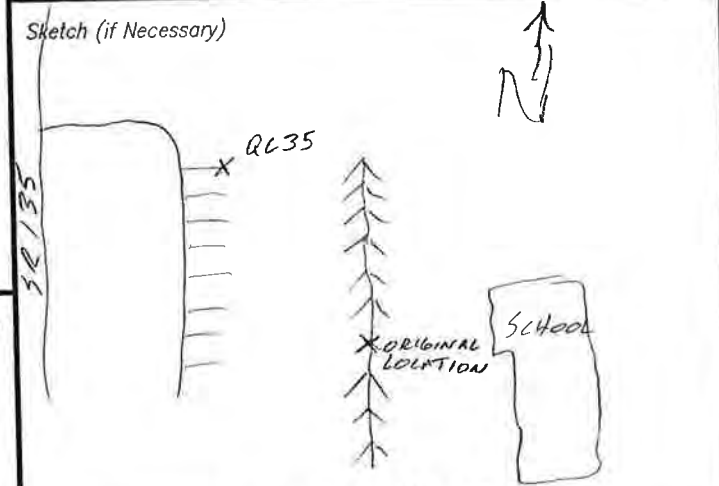
△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Close Up Picture # _____
182

Block 1 2 (3) 4

- | | | | |
|--------|--------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | <u>Brown</u> | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Picture of Set Up Picture # _____
183



Comments / Notes ORIGINAL LOCATION WAS COVERED UP BY VEHICLE
MOVED TO THE NE COR OF NW MOST PARKING SPOT (VERY LONG PAINT STRIPES)
(SHOULD NOT GET COVERED BY VEHICLE)

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SITSON Date 3-28-11
Weather SUNNY 50° Time 2:30 PM
File ORTHO 3-28-1 CS

Photo ID # QC34
Description S.E. CORNER OF SIDEWALK INTERSECTION

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~MMRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

IUP. BASE

Close Up

Picture # 56

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 57
LOOKING NE

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-29-2011

Weather 48° Pt sunny Time 2:15

File ORTHO-SM-3-29-11

Photo ID # QC35

Description CONC DRIVE @ SIDEWALK

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.6m

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Close Up

Picture # _____

159

Block 1 2 (3) 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

160

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 4-1-11
Weather CLOUDY 40° Time 10:15 AM
File ORTHO 4-1 CS

Photo ID # QC36
Description NE CORNER B.B. COURT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

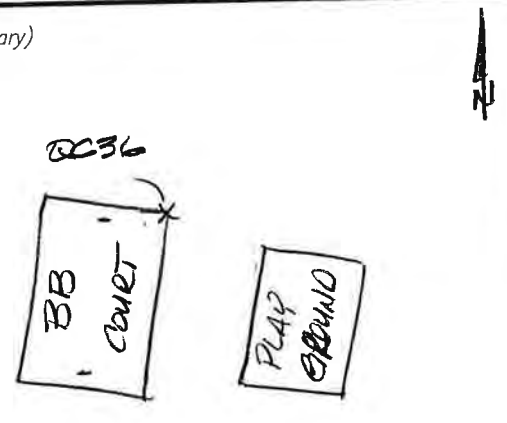
Close Up

Picture # 113

Block 1 2 (3) 4

- | | | | |
|--------|--------------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | <u>Bartholomew</u> | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Sketch (if Necessary)



Picture of Set Up

Picture # 114
LOOKING E.

Comments / Notes MOVED DUE TO CURBS AND POSSIBLE PARKED CARS

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-31-11
Weather M. SUNNY 50° Time 3:15 PM
File ORTHO 3-31 CS

Photo ID # QC37
Description S.W. CORNER SIDEWALK

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

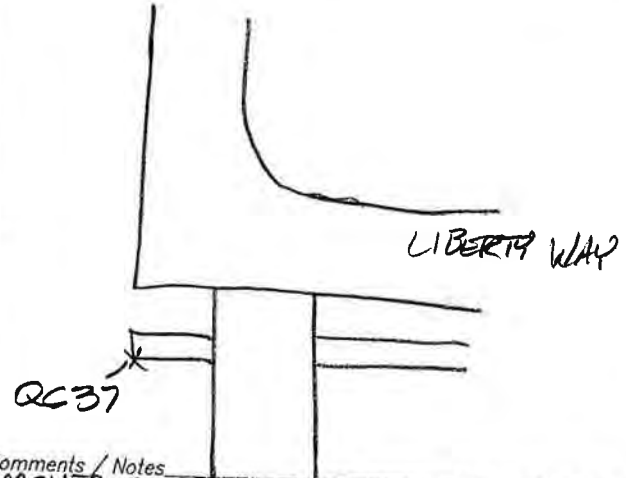
Close Up

Picture # 101

Block 1 2 3 4

- | | | | |
|--------|--------------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | <u>Bartholomew</u> | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Sketch (if Necessary)



Picture of Set Up

Picture # 102

Comments / Notes
MOVED DUE TO NEW LANDSCAPING

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STUSSAN Date 3-31-11
Weather M. Cloud 40° Time 10:00 AM
File ORTHO 3-31 CS

Photo ID # QC38
Description CORNER CONC. WALK AT E. PUMT.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 90

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 91
LOOKING NE.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-31-11
Weather M. CLOUD 40° Time 10:35AM
File _____

Photo ID # QC38A
Description CENTER OF INTERSECTION
5th ST. + HIGH ST.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

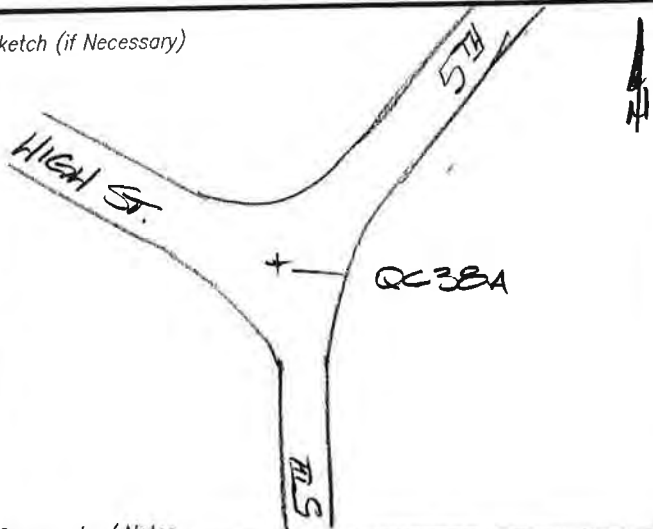
Close Up

Picture # 92

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 93
LOOKING N.

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-31-11

Weather M. Cloudy 35° Time 8:45 AM

File ORTHO 3-31 CS

Photo ID # QC39

Description ☎☎ PARKING LOT STRIPES

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # B7

Sketch (if Necessary)

Picture of Set Up

Picture # B8
LOOKING N.

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STILSON Date 4-5-11
Weather M. SUNNY 40° Time 9:30 AM
File ORTHO 4-5-CS

Photo ID # QC40
Description CORNER OF ASPHALT PK.
LOT

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 131

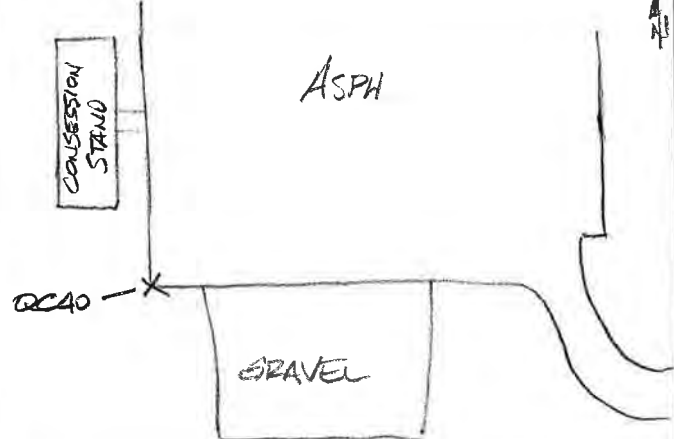
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	<u>Hendricks</u>	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 132
LOOKING S.

Sketch (if Necessary)



Comments / Notes MOVED DUE TO CURBING

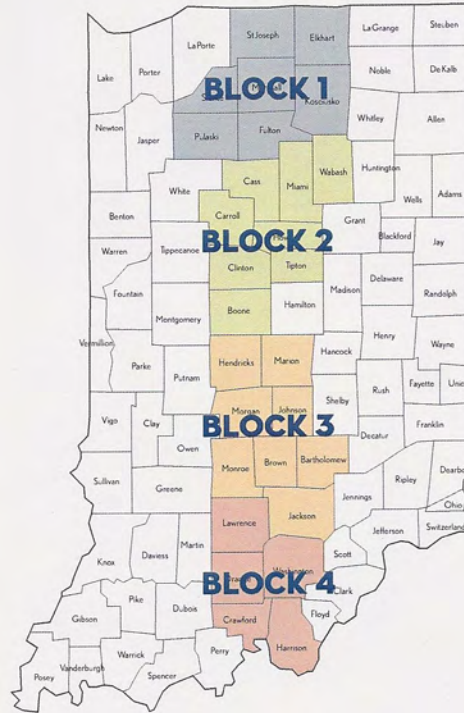
For Office Only:

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix N

Block 3 Data Disk

REPORT OF GROUND CONTROL 2011 INDIANA STATEWIDE IMAGERY & LiDAR PROGRAM



CENTRAL TIER - BLOCK 4 VOLUME 5

71177-01



WOOLPERT
DESIGN | GEOSPATIAL | INFRASTRUCTURE

REPORT OF GROUND CONTROL
2011 INDIANA STATE-WIDE
IMAGERY AND LIDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4

Prepared for:



7635 Interactive Way
Suite 100
Indianapolis, In. 46278

Prepared By:



April 2011

Volume 5 of 5

Table of Contents

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Appendix P – Block 4 Data Sheets

Appendix Q – Block 4 Field Sheets

Appendix R – Block 4 Data Disk

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix O

Block 4 Data Tables

2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix P

Block 4 Data Sheets

2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 1

Coordinate Values:

	Northing	Easting
Ind. East SPC:	42587.41	1361425.185
Ind. West SPC:	1360116.43	3069972.982
UTM 16N:	14156189.276	1733917.583

Geodetic Coordinates:

Latitude	Longitude
38°58'54.72490"N	86°40'15.48808"W

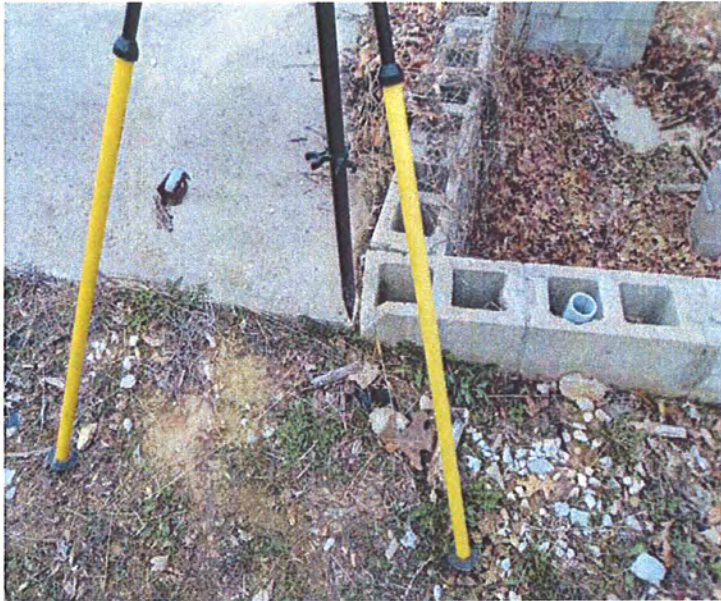
Orthometric Height:

NAVD 1988
831.070

Ground Photo:

Target ID: 1

[Link to Picture](#)



[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 2

Coordinate Values:

	Northing	Easting
Ind. East SPC:	155253.907	1349870.679
Ind. West SPC:	1350315.454	3182802.636
UTM 16N:	14146288.816	1846695.846

Geodetic Coordinates:

Latitude	Longitude
38°57'10.37856"N	86°16'27.81549"W

Orthometric Height:

NAVD 1988
871.508

Ground Photo:

Target ID: 2

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 3

Coordinate Values:

	Northing	Easting
Ind. East SPC:	154479.583	1277449.639
Ind. West SPC:	1277889.212	3183151.734
UTM 16N:	14073889.714	1846978.746

Geodetic Coordinates:

Latitude	Longitude
38°45'14.51321"N	86°16'31.50666"W

Orthometric Height:

NAVD 1988
682.542

Ground Photo:

Target ID: 3

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 3a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	154485.48	1277463.042
Ind. West SPC:	1277902.705	3183157.423
UTM 16N:	14073903.196	1846984.445

Geodetic Coordinates:

Latitude	Longitude
38°45'14.64607"N	86°16'31.43335"W

Orthometric Height:

NAVD 1988
682.580

2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 4

Coordinate Values:

	Northing	Easting
Ind. East SPC:	260537.055	1257925.366
Ind. West SPC:	1260006.53	3289506.55
UTM 16N:	14055917.108	1953276.66

Geodetic Coordinates:

Latitude	Longitude
38°42'06.36333"N	85°54'12.06011"W

Orthometric Height:

NAVD 1988
567.199

Ground Photo:

Target ID: 4

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 5

Coordinate Values:

	Northing	Easting
Ind. East SPC:	262816.671	1188313.954
Ind. West SPC:	1190429.812	3292860.306
UTM 16N:	13986364.138	1956565.992

Geodetic Coordinates:

Latitude	Longitude
38°30'38.31415"N	85°53'41.12301"W

Orthometric Height:

NAVD 1988
788.654

Ground Photo:

Target ID: 5

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 5a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	262796.454	1188325.586
Ind. West SPC:	1190441.133	3292839.91
UTM 16N:	13986375.473	1956545.613

Geodetic Coordinates:

Latitude	Longitude
38°30'38.42865"N	85°53'41.37773"W

Orthometric Height:

NAVD 1988
788.606

Ground Photo:

Target ID: 5a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 6

Coordinate Values:

	Northing	Easting
Ind. East SPC:	224954.368	1153202.994
Ind. West SPC:	1154736.768	3255538.367
UTM 16N:	13950718.565	1919226.105

Geodetic Coordinates:

Latitude	Longitude
38°24'50.04224"N	86°01'35.73736"W

Orthometric Height:

NAVD 1988
837.788

Ground Photo:

Target ID: 6

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 6a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	224960.096	1153188.02
Ind. West SPC:	1154721.883	3255544.325
UTM 16N:	13950703.679	1919232.047

Geodetic Coordinates:

Latitude	Longitude
38°24'49.89444"N	86°01'35.66466"W

Orthometric Height:

NAVD 1988
839.108

2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 7

Coordinate Values:

	Northing	Easting
Ind. East SPC:	240277.052	1100315.083
Ind. West SPC:	1102084.839	3271672.092
UTM 16N:	13898072.279	1935306.143

Geodetic Coordinates:

Latitude	Longitude
38°16'07.77400"N	85°58'21.02183"W

Orthometric Height:

NAVD 1988
888.141

Ground Photo:

Target ID: 7

[Link to Picture](#)



[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 8

Coordinate Values:

	Northing	Easting
Ind. East SPC:	260764.626	1068064.503
Ind. West SPC:	1070147.734	3292653.138
UTM 16N:	13866128.58	1956250.382

Geodetic Coordinates:

Latitude	Longitude
38°10'49.54891"N	85°54'03.10326"W

Orthometric Height:

NAVD 1988
431.127

Ground Photo:

Target ID: 8

[Link to Picture](#)



[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 8a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	260733.853	1068015.065
Ind. West SPC:	1070097.826	3292623.12
UTM 16N:	13866078.718	1956220.33

Geodetic Coordinates:

Latitude	Longitude
38°10'49.05942"N	85°54'03.48710"W

Orthometric Height:

NAVD 1988
431.120

Ground Photo:

Target ID: 8a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 9

Coordinate Values:

	Northing	Easting
Ind. East SPC:	252816.865	1014163.496
Ind. West SPC:	1016125.051	3285527.908
UTM 16N:	13812133.093	1949079.412

Geodetic Coordinates:

Latitude	Longitude
38°01'56.48486"N	85°55'40.74054"W

Orthometric Height:

NAVD 1988
430.240

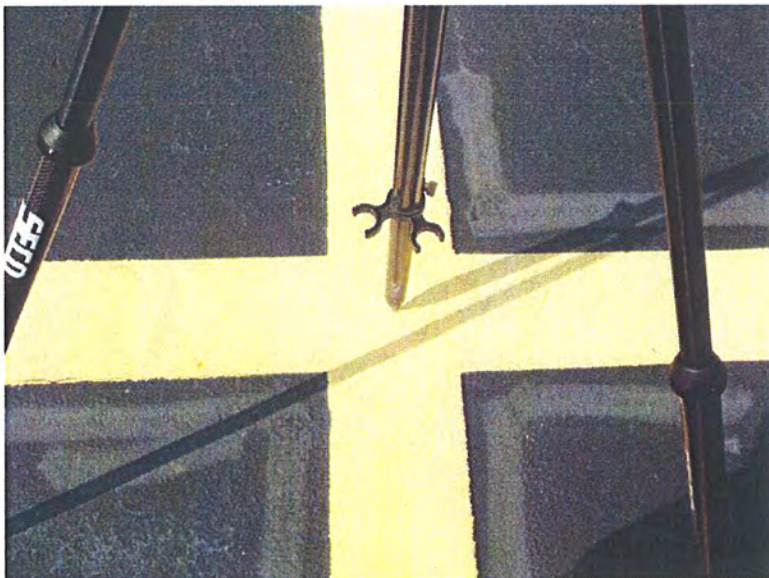
Ground Photo:

Target ID: 9

[Link to Picture](#)



[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 10

Coordinate Values:

	Northing	Easting
Ind. East SPC:	218457.033	989045.695
Ind. West SPC:	990484.458	3251550.86
UTM 16N:	13786532.763	1915092.455

Geodetic Coordinates:

Latitude	Longitude
37°57'47.00160"N	86°02'48.90719"W

Orthometric Height:

NAVD 1988
441.830

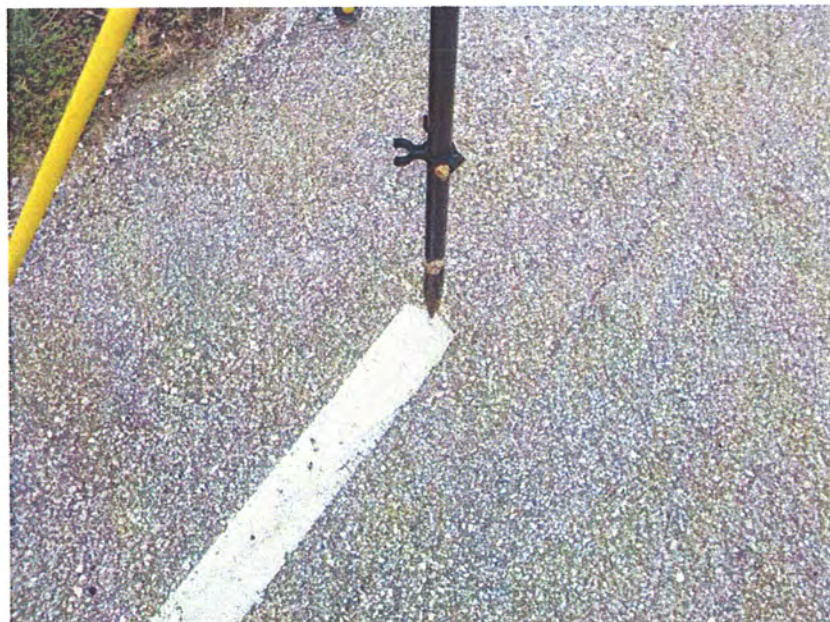
Ground Photo:

Target ID: 10

[Link to Picture](#)



[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 10a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	218456.559	989012.532
Ind. West SPC:	990451.289	3251550.89
UTM 16N:	13786499.606	1915092.456

Geodetic Coordinates:

Latitude	Longitude
37°57'46.67373"N	86°02'48.91141"W

Orthometric Height:

NAVD 1988
441.915

Ground Photo:

Target ID: 10a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 11

Coordinate Values:

	Northing	Easting
Ind. East SPC:	173994.994	1011760.927
Ind. West SPC:	1012521.809	3206745.207
UTM 16N:	13808601.807	1870323.636

Geodetic Coordinates:

Latitude	Longitude
38°01'29.39800"N	86°12'05.71720"W

Orthometric Height:

NAVD 1988
427.391

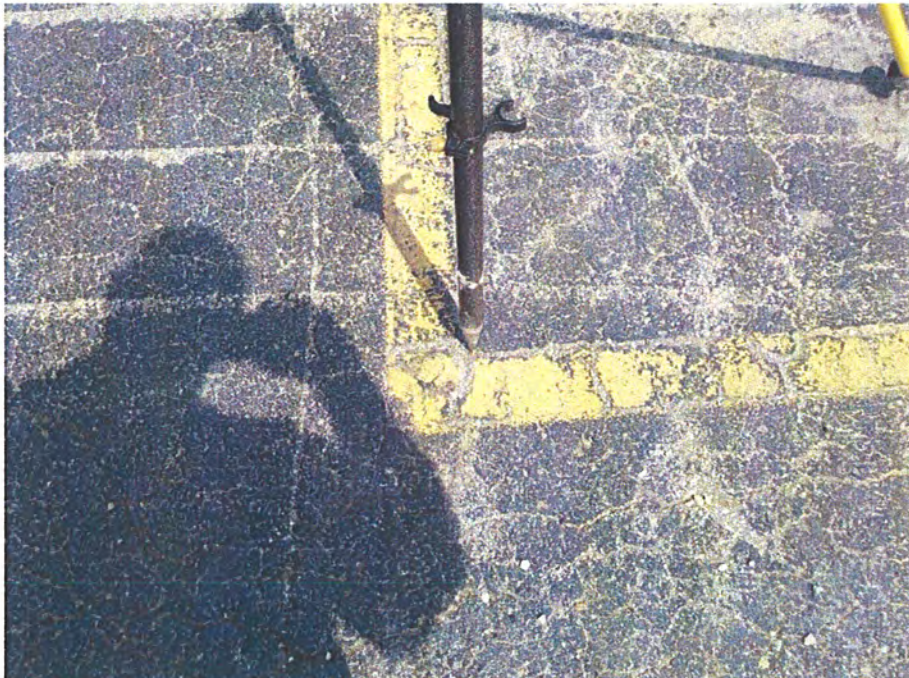
Ground Photo:

Target ID: 11

[Link to Picture](#)



[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 12

Coordinate Values:

	Northing	Easting
Ind. East SPC:	147954.721	1086134.505
Ind. West SPC:	1086491.729	3179571.689
UTM 16N:	13882568.029	1843226.844

Geodetic Coordinates:

Latitude	Longitude
38°13'42.99481"N	86°17'37.41900"W

Orthometric Height:

NAVD 1988
630.255

Ground Photo:

Target ID: 12

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 13

Coordinate Values:

	Northing	Easting
Ind. East SPC:	157517.632	1157804.34
Ind. West SPC:	1158301.63	3188034.75
UTM 16N:	13954343.065	1851751.449

Geodetic Coordinates:

Latitude	Longitude
38°25'32.07311"N	86°15'43.36823"W

Orthometric Height:

NAVD 1988
773.439

Ground Photo:

Target ID: 13

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: 13a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	157477.704	1157769.572
Ind. West SPC:	1158266.251	3187995.361
UTM 16N:	13954307.734	1851712.043

Geodetic Coordinates:

Latitude	Longitude
38°25'31.72688"N	86°15'43.86711"W

Orthometric Height:

NAVD 1988
774.977

Ground Photo:

Target ID: 13a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 14

Coordinate Values:

	Northing	Easting
Ind. East SPC:	111524.078	1048123.679
Ind. West SPC:	1047928.412	3143726.014
UTM 16N:	13844051.506	1807360.064

Geodetic Coordinates:

Latitude	Longitude
38°07'24.57547"N	86°25'10.07565"W

Orthometric Height:

NAVD 1988
421.333

Ground Photo:

Target ID: 14

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 14a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	111591.455	1048248.48
Ind. West SPC:	1048054.225	3143791.478
UTM 16N:	13844177.213	1807425.616

Geodetic Coordinates:

Latitude	Longitude
38°07'25.81453"N	86°25'09.24520"W

Orthometric Height:

NAVD 1988
428.384

Ground Photo:

Target ID: 14a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 15

Coordinate Values:

	Northing	Easting
Ind. East SPC:	39504.052	1104997.454
Ind. West SPC:	1103691.758	3070848.095
UTM 16N:	13899859.465	1734559.62

Geodetic Coordinates:

Latitude	Longitude
38°16'39.99285"N	86°40'18.96218"W

Orthometric Height:

NAVD 1988
743.634

Ground Photo:

Target ID: 15

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 15a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	39472.957	1104939.928
Ind. West SPC:	1103633.767	3070817.887
UTM 16N:	13899801.523	1734529.372

Geodetic Coordinates:

Latitude	Longitude
38°16'39.42092"N	86°40'19.34423"W

Orthometric Height:

NAVD 1988
747.596

Ground Photo:

Target ID: 15a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 16

Coordinate Values:

	Northing	Easting
Ind. East SPC:	36760.019	1151207.881
Ind. West SPC:	1149850.936	3067395.869
UTM 16N:	13946004.541	1731150.315

Geodetic Coordinates:

Latitude	Longitude
38°24'16.43752"N	86°40'59.74727"W

Orthometric Height:

NAVD 1988
607.722

Ground Photo:

Target ID: 16

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 17

Coordinate Values:

	Northing	Easting
Ind. East SPC:	41880.224	1266916.817
Ind. West SPC:	1265615.798	3070731.715
UTM 16N:	14061723.202	1734589.841

Geodetic Coordinates:

Latitude	Longitude
38°43'20.61179"N	86°40'11.29809"W

Orthometric Height:

NAVD 1988
552.365

Ground Photo:

Target ID: 17

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 18

Coordinate Values:

	Northing	Easting
Ind. East SPC:	99894.538	1205367.12
Ind. West SPC:	1204972.185	3129686.372
UTM 16N:	14001048.787	1793467.355

Geodetic Coordinates:

Latitude	Longitude
38°33'17.89710"N	86°27'52.59709"W

Orthometric Height:

NAVD 1988
606.842

Ground Photo:

Target ID: 18

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 19

Coordinate Values:

	Northing	Easting
Ind. East SPC:	206966.844	1223454.947
Ind. West SPC:	1224709.342	3236469.802
UTM 16N:	14020681.631	1900228.192

Geodetic Coordinates:

Latitude	Longitude
38°36'23.72377"N	86°05'25.79715"W

Orthometric Height:

NAVD 1988
777.991

Ground Photo:

Target ID: 19

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 20

Coordinate Values:

	Northing	Easting
Ind. East SPC:	95788.922	1125892.674
Ind. West SPC:	1125446.035	3126803.122
UTM 16N:	13921555.161	1790513.293

Geodetic Coordinates:

Latitude	Longitude
38°20'11.99059"N	86°28'35.48410"W

Orthometric Height:

NAVD 1988
656.307

Ground Photo:

Target ID: 20

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 21

Coordinate Values:

	Northing	Easting
Ind. East SPC:	195270.978	1118439.984
Ind. West SPC:	1119519.522	3226389.669
UTM 16N:	13915541.093	1890056.767

Geodetic Coordinates:

Latitude	Longitude
38°19'05.09534"N	86°07'46.48641"W

Orthometric Height:

NAVD 1988
727.650

Ground Photo:

Target ID: 21

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 22

Coordinate Values:

	Northing	Easting
Ind. East SPC:	181647.085	1049980.895
Ind. West SPC:	1050855.936	3213813.953
UTM 16N:	13846915	1877424.068

Geodetic Coordinates:

Latitude	Longitude
38°07'47.64756"N	86°10'32.70623"W

Orthometric Height:

NAVD 1988
677.031

Ground Photo:

Target ID: 22

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 22a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	181662.511	1049959.712
Ind. West SPC:	1050834.99	3213829.701
UTM 16N:	13846894.048	1877439.791

Geodetic Coordinates:

Latitude	Longitude
38°07'47.43899"N	86°10'32.51173"W

Orthometric Height:

NAVD 1988
677.654

Ground Photo:

Target ID: 22a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 23

Coordinate Values:

	Northing	Easting
Ind. East SPC:	230662.947	1045310.77
Ind. West SPC:	1046934.271	3262899.137
UTM 16N:	13842950.768	1926486.967

Geodetic Coordinates:

Latitude	Longitude
38°07'03.69364"N	86°00'19.05289"W

Orthometric Height:

NAVD 1988
740.448

Ground Photo:

Target ID: 23

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: 24

Coordinate Values:

	Northing	Easting
Ind. East SPC:	91362.887	1310708.969
Ind. West SPC:	1310166.607	3119527.53
UTM 16N:	14106212.894	1783407.963

Geodetic Coordinates:

Latitude	Longitude
38°50'38.33421"N	86°29'52.01594"W

Orthometric Height:

NAVD 1988
678.378

Ground Photo:

Target ID: 24

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC1

Coordinate Values:

	Northing	Easting
Ind. East SPC:	78142.416	1337297.973
Ind. West SPC:	1336546.213	3105896.515
UTM 16N:	14132595.039	1769806.139

Geodetic Coordinates:

Latitude	Longitude
38°54'59.90234"N	86°32'42.33167"W

Orthometric Height:

NAVD 1988
668.904

Ground Photo:

Target ID: QC1

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC1a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	78078.72	1337312.473
Ind. West SPC:	1336559.721	3105832.603
UTM 16N:	14132608.601	1769742.264

Geodetic Coordinates:

Latitude	Longitude
38°55'00.03958"N	86°32'43.13926"W

Orthometric Height:

NAVD 1988
671.262

Ground Photo:

Target ID: QC1a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC2

Coordinate Values:

	Northing	Easting
Ind. East SPC:	112245.244	1321757.636
Ind. West SPC:	1321537.634	3140235.508
UTM 16N:	14117560.751	1804118.522

Geodetic Coordinates:

Latitude	Longitude
38°52'29.33153"N	86°25'29.25630"W

Orthometric Height:

NAVD 1988
634.418

Ground Photo:

Target ID: QC2

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC2a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	112281.69	1321737.792
Ind. West SPC:	1321518.358	3140272.257
UTM 16N:	14117541.448	1804155.24

Geodetic Coordinates:

Latitude	Longitude
38°52'29.13839"N	86°25'28.79340"W

Orthometric Height:

NAVD 1988
633.974

Ground Photo:

Target ID: QC2a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC3

Coordinate Values:

	Northing	Easting
Ind. East SPC:	93994.043	1269749.679
Ind. West SPC:	1269254.25	3122792.684
UTM 16N:	14065312.936	1786634.625

Geodetic Coordinates:

Latitude	Longitude
38°43'53.73942"N	86°29'14.11815"W

Orthometric Height:

NAVD 1988
713.179

Ground Photo:

Target ID: QC3

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC4

Coordinate Values:

	Northing	Easting
Ind. East SPC:	48765.096	1295487.05
Ind. West SPC:	1294287.048	3077173.005
UTM 16N:	14090377.888	1741054.827

Geodetic Coordinates:

Latitude	Longitude
38°48'03.71726"N	86°38'48.29766"W

Orthometric Height:

NAVD 1988
500.477

Ground Photo:

Target ID: QC4

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet.

Target ID: QC5

Coordinate Values:

	Northing	Easting
Ind. East SPC:	57651.879	1210295.901
Ind. West SPC:	1209249.126	3087374.599
UTM 16N:	14005362.473	1751175.33

Geodetic Coordinates:

Latitude	Longitude
38°34'02.65222"N	86°36'44.95316"W

Orthometric Height:

NAVD 1988
524.677

Ground Photo:

Target ID: QC5

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC6

Coordinate Values:

	Northing	Easting
Ind. East SPC:	107158.922	1243844.035
Ind. West SPC:	1243555.807	3136356.123
UTM 16N:	14039611.833	1800169.601

Geodetic Coordinates:

Latitude	Longitude
38°39'38.82165"N	86°26'25.23704"W

Orthometric Height:

NAVD 1988
647.166

Ground Photo:

Target ID: QC6

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC7

Coordinate Values:

	Northing	Easting
Ind. East SPC:	58481.518	1174256.375
Ind. West SPC:	1173228.897	3088758.993
UTM 16N:	13969354.462	1752526.591

Geodetic Coordinates:

Latitude	Longitude
38°28'06.52710"N	86°36'29.86460"W

Orthometric Height:

NAVD 1988
663.473

Ground Photo:

Target ID: QC7

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC7a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	58500.701	1174382.159
Ind. West SPC:	1173354.953	3088776.238
UTM 16N:	13969480.455	1752543.943

Geodetic Coordinates:

Latitude	Longitude
38°28'07.77227"N	86°36'29.63961"W

Orthometric Height:

NAVD 1988
678.505

Ground Photo:

Target ID: QC7a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC8

Coordinate Values:

	Northing	Easting
Ind. East SPC:	118971.078	1161312.329
Ind. West SPC:	1161216.847	3149438.368
UTM 16N:	13957292.061	1813172.308

Geodetic Coordinates:

Latitude	Longitude
38°26'04.00912"N	86°23'48.06923"W

Orthometric Height:

NAVD 1988
606.198

Ground Photo:

Target ID: QC8

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC9

Coordinate Values:

	Northing	Easting
Ind. East SPC:	65915.463	1124517.797
Ind. West SPC:	1123613.256	3096955.483
UTM 16N:	13919749.988	1760675.203

Geodetic Coordinates:

Latitude	Longitude
38°19'55.64547"N	86°34'50.20802"W

Orthometric Height:

NAVD 1988
766.019

Ground Photo:

Target ID: QC9

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC10

Coordinate Values:

	Northing	Easting
Ind. East SPC:	97049.586	1086496.864
Ind. West SPC:	1086075.196	3128667.067
UTM 16N:	13882197.454	1792341.071

Geodetic Coordinates:

Latitude	Longitude
38°13'42.68718"N	86°28'15.36329"W

Orthometric Height:

NAVD 1988
697.713

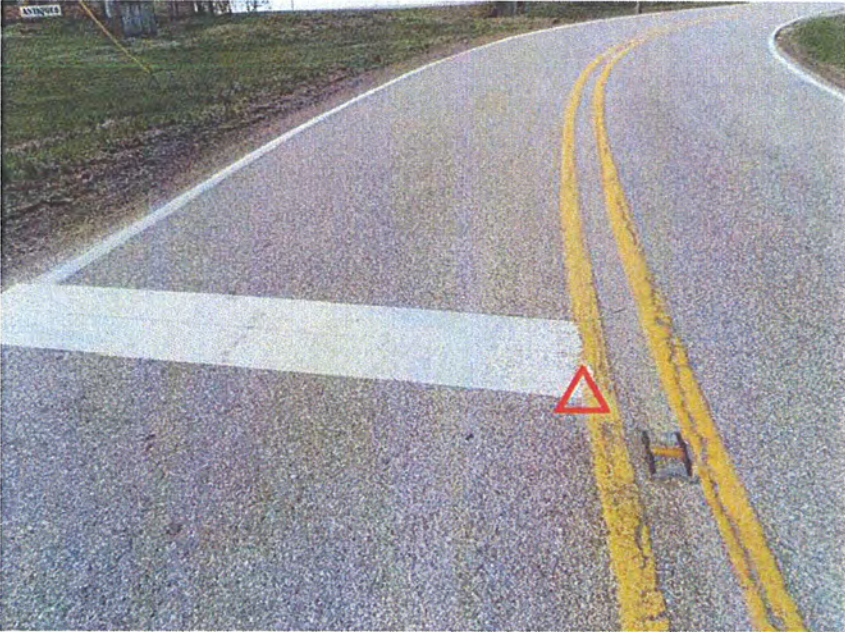
Ground Photo:

Target ID: QC10

[Link to Picture](#)



[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC11

Coordinate Values:

	Northing	Easting
Ind. East SPC:	131199.281	1125417.308
Ind. West SPC:	1125513.797	3162216.23
UTM 16N:	13921590.96	1825913.108

Geodetic Coordinates:

Latitude	Longitude
38°20'10.12679"N	86°21'11.04307"W

Orthometric Height:

NAVD 1988
875.381

Ground Photo:

Target ID: QC11

[Link to Picture](#)



[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC12

Coordinate Values:

	Northing	Easting
Ind. East SPC:	129608.768	1092647.191
Ind. West SPC:	1092722.986	3161127.977
UTM 16N:	13888813.525	1824795.722

Geodetic Coordinates:

Latitude	Longitude
38°14'46.08161"N	86°21'27.92985"W

Orthometric Height:

NAVD 1988
732.339

Ground Photo:

Target ID: QC12

[Link to Picture](#)



[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC13

Coordinate Values:

	Northing	Easting
Ind. East SPC:	164604.747	1260973.288
Ind. West SPC:	1261570.961	3193530.897
UTM 16N:	14057568.213	1857339.125

Geodetic Coordinates:

Latitude	Longitude
38°42'32.30164"N	86°14'22.39546"W

Orthometric Height:

NAVD 1988
766.047

Ground Photo:

Target ID: QC13

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: QC14

Coordinate Values:

	Northing	Easting
Ind. East SPC:	228522.397	1238224.214
Ind. West SPC:	1239810.847	3257796.64
UTM 16N:	14035757.998	1921560.577

Geodetic Coordinates:

Latitude	Longitude
38°38'50.61138"N	86°00'54.95718"W

Orthometric Height:

NAVD 1988
882.604

Ground Photo:

Target ID: QC14

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC14a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	228714.637	1238289.487
Ind. West SPC:	1239879.087	3257987.867
UTM 16N:	14035826.038	1921751.794

Geodetic Coordinates:

Latitude	Longitude
38°38'51.26380"N	86°00'52.53717"W

Orthometric Height:

NAVD 1988
884.429

Ground Photo:

Target ID: QC14a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: QC15

Coordinate Values:

	Northing	Easting
Ind. East SPC:	170960.971	1187074.235
Ind. West SPC:	1187775.892	3201026.787
UTM 16N:	13983794.38	1864765.211

Geodetic Coordinates:

Latitude	Longitude
38°30'22.22537"N	86°12'56.63613"W

Orthometric Height:

NAVD 1988
755.960

Ground Photo:

Target ID: QC15

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC15a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	170901.433	1187104.313
Ind. West SPC:	1187805.051	3200966.79
UTM 16N:	13983823.582	1864705.264

Geodetic Coordinates:

Latitude	Longitude
38°30'22.51916"N	86°12'57.38735"W

Orthometric Height:

NAVD 1988
756.567

Ground Photo:

Target ID: QC15a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC16

Coordinate Values:

	Northing	Easting
Ind. East SPC:	221132.98	1192768.547
Ind. West SPC:	1194242.445	3251108.453
UTM 16N:	13990213.117	1914833.625

Geodetic Coordinates:

Latitude	Longitude
38°31'21.00022"N	86°02'25.76691"W

Orthometric Height:

NAVD 1988
872.530

Ground Photo:

Target ID: QC16

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC16a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	221143.625	1192805.997
Ind. West SPC:	1194280.059	3251118.521
UTM 16N:	13990250.707	1914843.723

Geodetic Coordinates:

Latitude	Longitude
38°31'21.37084"N	86°02'25.63488"W

Orthometric Height:

NAVD 1988
872.934

Ground Photo:

Target ID: QC16a

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC17

Coordinate Values:

	Northing	Easting
Ind. East SPC:	170072.274	1124576.74
Ind. West SPC:	1125269.487	3201098.473
UTM 16N:	13921311.674	1864780.388

Geodetic Coordinates:

Latitude	Longitude
38°20'04.39134"N	86°13'03.11825"W

Orthometric Height:

NAVD 1988
651.443

Ground Photo:

Target ID: QC17

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC18

Coordinate Values:

	Northing	Easting
Ind. East SPC:	221406.191	1110066.07
Ind. West SPC:	1111546.541	3252652.197
UTM 16N:	13907547.488	1916302.067

Geodetic Coordinates:

Latitude	Longitude
38°17'43.48324"N	86°02'18.13485"W

Orthometric Height:

NAVD 1988
831.462

Ground Photo:

Target ID: QC18

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC18a

Coordinate Values:

	Northing	Easting
Ind. East SPC:	221419.479	1110052.062
Ind. West SPC:	1111532.737	3252665.7
UTM 16N:	13907533.676	1916315.553

Geodetic Coordinates:

Latitude	Longitude
38°17'43.34529"N	86°02'17.96745"W

Orthometric Height:

NAVD 1988
831.727

2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)
Vert. Datum: North American Vertical Datum of 1988
Geoid: Geoid 09
Units: US Survey Feet
1 meter = (3937/1200) US Survey Feet

Target ID: QC19

Coordinate Values:

	Northing	Easting
Ind. East SPC:	196983.164	1079287.813
Ind. West SPC:	1080395.559	3228701.319
UTM 16N:	13876429.98	1892332.302

Geodetic Coordinates:

Latitude	Longitude
38°12'38.14833"N	86°07'22.58032"W

Orthometric Height:

NAVD 1988
544.616

Ground Photo:

Target ID: QC19

[Link to Picture](#)



2011 Indiana Statewide Imagery and LiDAR Program - Block 4

Datum: North American Datum of 1983 (NSRS 2007)

Vert. Datum: North American Vertical Datum of 1988

Geoid: Geoid 09

Units: US Survey Feet

1 meter = (3937/1200) US Survey Feet

Target ID: QC20

Coordinate Values:

	Northing	Easting
Ind. East SPC:	210067.746	1034935.477
Ind. West SPC:	1036244.988	3242462.807
UTM 16N:	13832283.919	1906048.873

Geodetic Coordinates:

Latitude	Longitude
38°05'20.30594"N	86°04'36.18840"W

Orthometric Height:

NAVD 1988
699.289

Ground Photo:

Target ID: QC20

[Link to Picture](#)



[Link to Picture](#)



2011 INDIANA STATE-WIDE
IMAGERY AND LiDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix Q

Block 4 Field Sheets

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-29-2011
Weather 40° CLOUDY Time 9 AM
File ORTHO-5M-3-29-11

Photo ID # 1
Description RELOCATED TO COR. OF
CONC. MOBILE HOME PAD 800' ± EAST

△ N: △ E: △ Z: Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~3~~ ~~4~~
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
UNABLE TO CONNECT TO VRS #5700

Block 1 2 3 4

Close Up

Picture # _____

~~4~~
165

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	Bartholomew	Howard	Eikhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

~~45~~
166

Comments / Notes MOVED FROM ORIGINAL
LOCATION (GRAVEL DRIVE)
800' ± EAST OF ORIGINAL
COULD NOT FIND HARD SURFACE ANY
CLOSER

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-30-11
Weather CLOUDY 40° Time 4:00 PM
File ORTHO 3-30 CS

Photo ID # 2
Description SE CORNER PAVED PK LOT
ACROSS FROM CHURCH

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

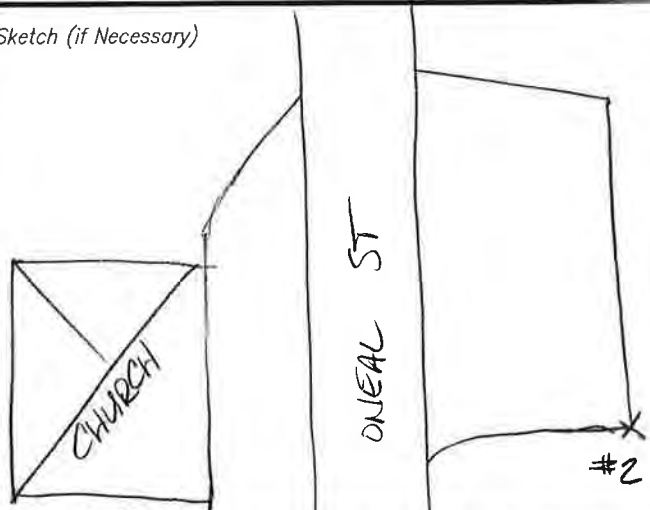
Close Up

Picture # 85

Block 1 2 (3) 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 86
LOOKING W.

Comments / Notes

MOVED LOCATION DUE TO TREE
CANOPY BLOCKING G.P.S.

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-28-11
Weather SUNNY 45° Time 1:15 PM
File ORTHO 3-28-1 CS

Photo ID # 3
Description S. SIDE OF N. DRIVE @ W
E. P.V.M.T.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~MMRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Close Up

Picture # 54

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	<u>Orange</u>	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 55

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-29-11
Weather CLOUDY 50° Time 6:00 PM
File ORTHO 3-29 CS

Photo ID # 3A
Description ∩ OF STREET IN FRONT OF N. DRIVE TO HOUSE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # _____

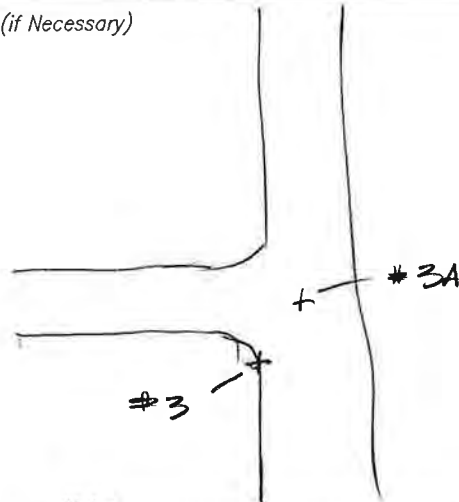
Block 1 2 3 4

County <u>Harrison</u>	Morgan	Cass
Crawford	Marion	Fulton
Washington	Hendricks	Pulaski
Orange	Boone	Kosciusko
Jackson	Tipton	Marshall
Lawrence	Clinton	Starke
Bartholomew	Howard	Elkhart
Brown	Carroll	St. Joseph
Monroe	Wabash	Other _____
Johnson	Miami	

Picture of Set Up

Picture # 72

Sketch (if Necessary)



Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STILSON Date 3-29-11
Weather CLOUDY 50° Time 6:30 AM
File ORTHO 3.29 CS

Photo ID # 30
Description CENTER OF INTERSECTION
1 MILE SOUTH OF #3

△ N: △ E: △ Z: Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # _____

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 73

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-30-11
Weather CLOUDY/SNOW 40° Time 9:30 AM
File ORTHO 3-30 CS

Photo ID # 4
Description TIP OF ARROW SE. COR
PARKING LOT

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

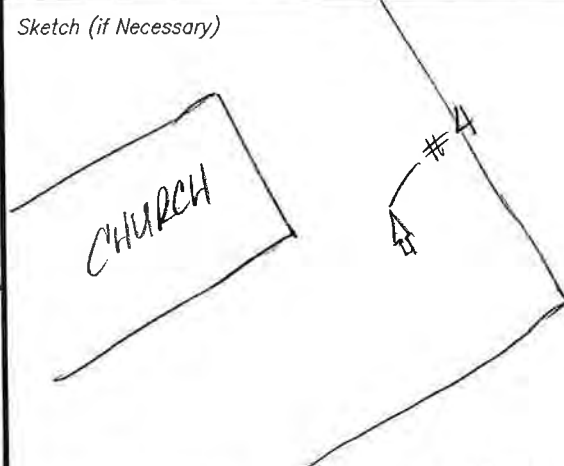
Close Up

Picture # 74

Block 1 2 3 4

- | | | | |
|--------|-------------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | <u>Washington</u> | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Sketch (if Necessary)



Picture of Set Up

Picture # 75

Comments / Notes MOVED TO BACK OF
CHURCH DUE TO CONC. RET.
WALL

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-24-11
Weather CLOUDY 40° Time 3:30 PM
File ORTHO-3-24 CS

Photo ID # 5
Description E. EDGE OF DRIVE @ EDGE PUNT.

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R ~~5800~~
MWRK Obs. 1 Obs. 2 TSC 2 #5 ~~#6~~
STATIC 45 min.

Close Up

Picture # 34

Block 1 2 3 4
County Harrison Morgan Cass
Crawford Marion Fulton
Washington Hendricks Pulaski
Orange Boone Kosciusko
Jackson Tipton Marshall
Lawrence Clinton Starke
Bartholomew Howard Elkhart
Brown Carroll St. Joseph
Monroe Wabash Other _____
Johnson Miami

Sketch (if Necessary)

Picture of Set Up

Picture # 35
LOOKING N.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STANSON Date 3-24-11
 Weather CLOUDY 40° Time 4:15 PM
 File ORTHO-3-24 CS

Photo ID # 5A
 Description Q DRIVE @ N. EDGE PUMT
 WHISKEY RUN RD.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
 InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
 MWRTK Obs. 1 Obs. 2 TSC 2 #50 #6
STATIC 45 MIN

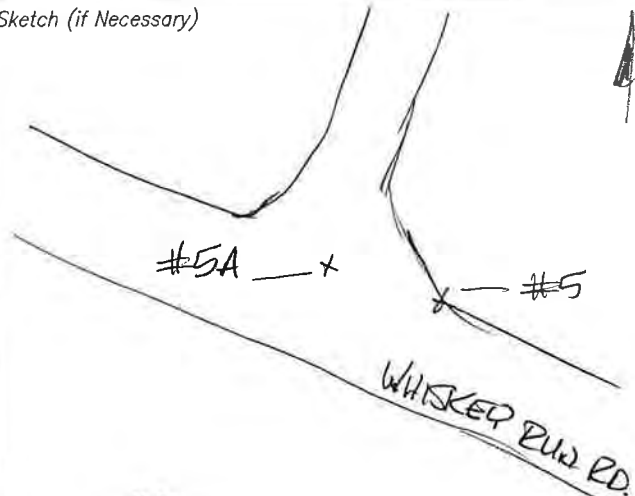
Block 1 2 3 4

Close Up

Picture # 36

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 37
LOOKING N.

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-24-11
 Weather CLOUDY 40° Time 1:20 PM
 File ORTHO-3-24 CS

Photo ID # 6
 Description _____

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~MMRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>FLOYD</u>
	Johnson	Miami	

Close Up

Picture # 32

Sketch (if Necessary)

Picture of Set Up

Picture # 33

LOOKING W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-24-11
Weather CLOUDY 40° Time 8:45 AM
File ORTHO-3-24 CS

Photo ID # 6A
Description Ø DRIVE AT W. EDGE OF
PUMI, SR. 335

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~MMRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

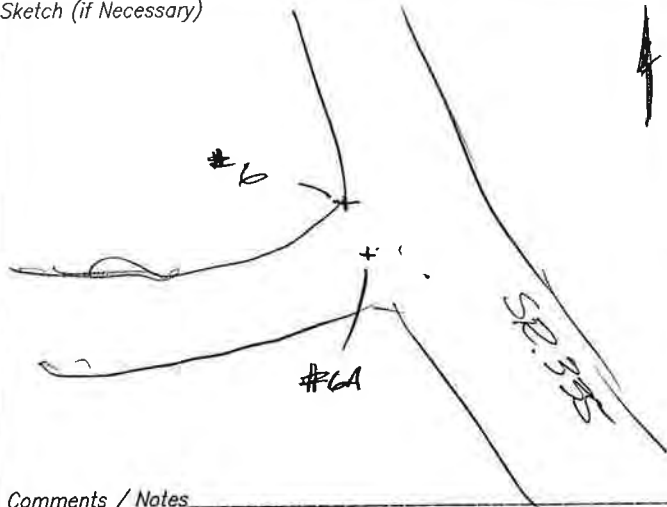
Block 1 2 3 (4)

Close Up

Picture # 42

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>FLOYD</u>
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 43

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-23-11
Weather M. SUNNY 70° Time 8:45 AM
File ORTHO 3-23-CS

Photo ID # 7
Description SW. CORNER OF CONG. DRIVE
BUMP OUT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~MMRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Block 1 2 3 (4)

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	<u>Orange</u>	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	<u>Brown</u>	Carroll	St. Joseph
	<u>Monroe</u>	Wabash	Other _____
	<u>Johnson</u>	Miami	

Close Up

Picture # 10

Sketch (if Necessary)

Picture of Set Up

Picture # 11
LOOKING N.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-23-11
Weather M. SUNNY 70° Time 10:00 AM
File ORTHO-3-23-CS

Photo ID # 8
Description 4 NORTH END OF PAINT STRIPE

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~MARK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Block 1 2 3 (4)

County	<u>Harrison</u>	<u>Morgan</u>	<u>Cass</u>
	<u>Crawford</u>	<u>Marion</u>	<u>Fulton</u>
	<u>Washington</u>	<u>Hendricks</u>	<u>Pulaski</u>
	<u>Orange</u>	<u>Boone</u>	<u>Kosciusko</u>
	<u>Jackson</u>	<u>Tipton</u>	<u>Marshall</u>
	<u>Lawrence</u>	<u>Clinton</u>	<u>Starke</u>
	<u>Bartholomew</u>	<u>Howard</u>	<u>Elkhart</u>
	<u>Brown</u>	<u>Carroll</u>	<u>St. Joseph</u>
	<u>Monroe</u>	<u>Wabash</u>	<u>Other</u> _____
	<u>Johnson</u>	<u>Miami</u>	

Close Up

Picture # 12

Sketch (if Necessary)

Picture of Set Up

Picture # 13
LOOKING N.W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-23-11
Weather M. SUNNY 70° Time 10:30 AM
File ORTHO-3-23-05

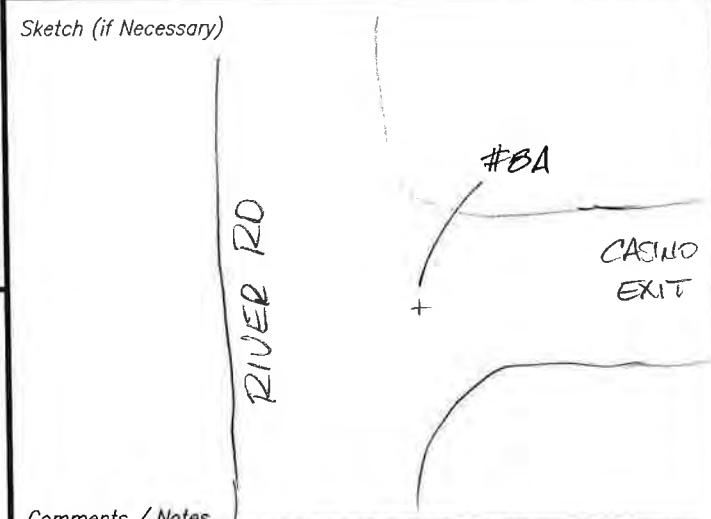
Photo ID # BA
Description DRIVE (EXIT) TO CASINO

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~HWRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6
INT. BASE

Close Up Picture # 14

- Block 1 2 3 4
- | | | | |
|--------|-----------------|-----------|-------------|
| County | <u>Harrison</u> | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Picture of Set Up Picture # 15
LOOKING N.



Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINKSON Date 3-23-11
Weather P. SUNNY 70° Time 11:00 AM
File ORTHO-323-CS

Photo ID # 9
Description ☒ OF "X" AT END OF RUNWAY FOR RADIO CONTROLLED PLANES

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~MARK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Close Up

Picture # 16

Block 1 2 3 4

County	<u>Harrison</u>	<u>Morgan</u>	<u>Cass</u>
	<u>Crawford</u>	<u>Marion</u>	<u>Fulton</u>
	<u>Washington</u>	<u>Hendricks</u>	<u>Pulaski</u>
	<u>Orange</u>	<u>Boone</u>	<u>Kosciusko</u>
	<u>Jackson</u>	<u>Tipton</u>	<u>Marshall</u>
	<u>Lawrence</u>	<u>Clinton</u>	<u>Starke</u>
	<u>Bartholomew</u>	<u>Howard</u>	<u>Elkhart</u>
	<u>Brown</u>	<u>Carroll</u>	<u>St. Joseph</u>
	<u>Monroe</u>	<u>Wabash</u>	<u>Other</u> _____
	<u>Johnson</u>	<u>Miami</u>	

Sketch (if Necessary)

Picture of Set Up

Picture # 17
LOOKING S.S.W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-22-11
Weather CLOUDY 62° Time 8:00 AM
File _____

Photo ID # 10
Description END OF PAINT STRIPE
E

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
STATIC 45MIN

Close Up

Picture # 1

Block 1 2 3 4

County <u>Harrison</u>	Morgan	Cass
<u>Crawford</u>	Marion	Fulton
<u>Washington</u>	Hendricks	Pulaski
<u>Orange</u>	Boone	Kosciusko
<u>Jackson</u>	Tipton	Marshall
<u>Lawrence</u>	Clinton	Starke
<u>Bartholomew</u>	Howard	Elkhart
<u>Brown</u>	Carroll	St. Joseph
<u>Monroe</u>	Wabash	Other _____
<u>Johnson</u>	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 2
LOOKING SOUTHEAST

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STILSON Date 3-22-11
Weather CLOUDY 62° Time 9:30 AM
File _____

Photo ID # 10A
Description INTERSECTION KINTNER
BOTTOMS RD + DRIVE TO HSE #16170

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

STATIC 45 MIN.

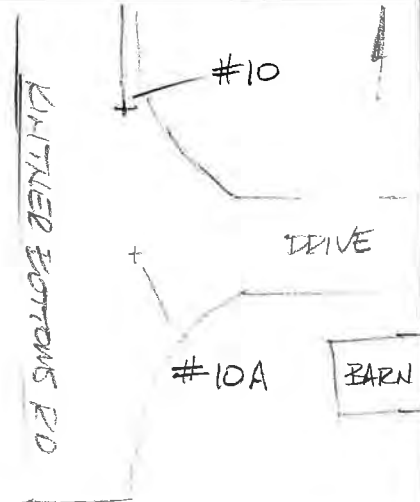
Block 1 2 3 4

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	<u>Orange</u>	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	<u>Brown</u>	Carroll	St. Joseph
	<u>Monroe</u>	Wabash	Other _____
	<u>Johnson</u>	Miami	

Close Up

Picture # 3

Sketch (if Necessary)



Comments / Notes _____

Picture of Set Up

Picture # 4
LOOKING E.S.E.

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-22-11
Weather M. SUNNY Time 2:00 PM
File _____

Photo ID # 11
Description INSIDE CORNER PARKING STRIPE

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 8

Block 1 2 3 4

County	<u>Harrison</u>	<u>Morgan</u>	<u>Cass</u>
	<u>Crawford</u>	<u>Marion</u>	<u>Fulton</u>
	<u>Washington</u>	<u>Hendricks</u>	<u>Pulaski</u>
	<u>Orange</u>	<u>Boone</u>	<u>Kosciusko</u>
	<u>Jackson</u>	<u>Tipton</u>	<u>Marshall</u>
	<u>Lawrence</u>	<u>Clinton</u>	<u>Starke</u>
	<u>Bartholomew</u>	<u>Howard</u>	<u>Elkhart</u>
	<u>Brown</u>	<u>Carroll</u>	<u>St. Joseph</u>
	<u>Monroe</u>	<u>Wabash</u>	<u>Other</u> _____
	<u>Johnson</u>	<u>Miami</u>	

Sketch (if Necessary)

Picture of Set Up

Picture # 9
LOOKING N.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-23-2011

Weather CLOUDY 60° Time 10 AM

File ORTHO-SM-3-23-11

Photo ID # 12

Description PAINTED CORNER OF P-LOT TRIANGLE
NW COR OF PAINT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. _____

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
INTERNET RTK 5700

Close Up

Picture # _____
13 TOWARDS BLDG

Block 1 2 3 4

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____
14 TOWARDS BLDG

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-25-11
Weather Cloudy 40° Time 10:00 AM
File ORTHO 3-25 CS

Photo ID # 13
Description NE CORNER OF DRIVEWAY
SEALED COAT

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~MMRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Close Up

Picture # 44

Block 1 2 3 (4)

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 45
LOOKING SW.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-25-11
Weather CLOUDY 40° Time 10:30 AM
File ORTHO 3-25 CS

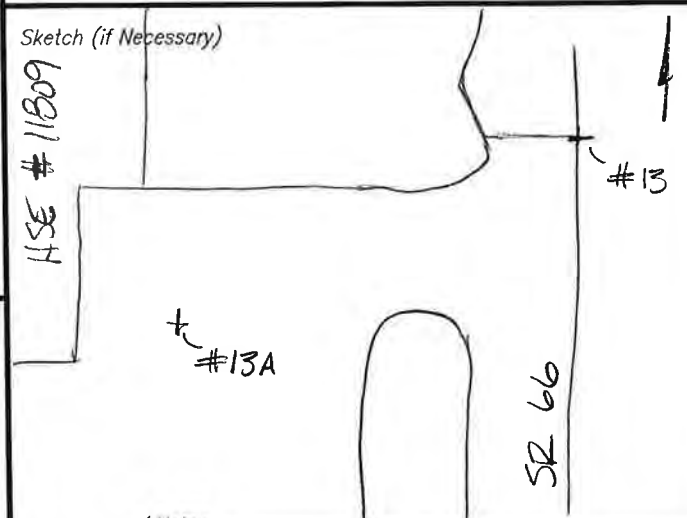
Photo ID # 13A
Description CENTER OF DRIVEWAY
HSE # 11809

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M.
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
INT. BASE

Close Up Picture # 46

Block 1 2 3 4
County Harrison Morgan Cass
Crawford Marion Fulton
Washington Hendricks Pulaski
Orange Boone Kosciusko
Jackson Tipton Marshall
Lawrence Clinton Starke
Bartholomew Howard Elkhart
Brown Carroll St. Joseph
Monroe Wabash Other _____
Johnson Miami

Picture of Set Up Picture # 47
LOOKING SW.



Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-22-2011
Weather Pt Cloudy 60° Time 9 AM
File ORTHO-SM-3-22-11

Photo ID # 14A
Description COR OF CONC SIDEWALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. _____

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

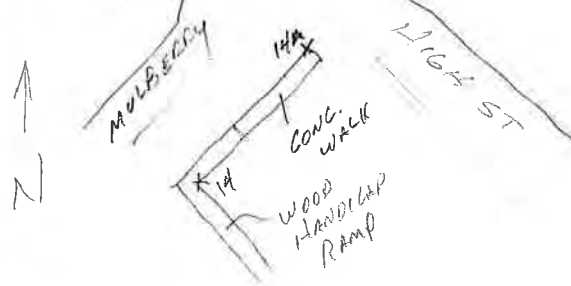
Block 1 2 3 4

Close Up

Picture # _____
3 SW

County	Harrison Crawford Washington Orange Jackson Lawrence Bartholomew Brown Monroe Johnson	Morgan Marion Hendricks Boone Tipton Clinton Howard Carroll Wabash Miami	Cass Fulton Pulaski Kosciusko Marshall Starke Elkhart St. Joseph Other <u>PERRY</u>
--------	--	---	---

Sketch (if Necessary)



Picture of Set Up

Picture # _____
4 SW

Comments / Notes MOVED FROM 14 TO 14A DUE TO 14 BEING A WOOD HANDICAP RAMP
MOVED TO NW COR. OF CONC SIDEWALK
100' N.E. OF 14

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-22-2011
Weather Pt SUNNY 60° Time 10 AM
File ORTHO-SM-3-22-11

Photo ID # 148
Description ♠ MULBERRY @ ♠ NEW ASPHALT DRIVE 110' NE OF MULBERRY & HIGH ST

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 ^{OBS 3} ⁴ Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # _____
S NE

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other <u>PERRY</u>
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____
6 SW

Comments / Notes UNABLE TO GET FIXED USING VRS
SHOT 4 TIMES ON INCORS SYSTEM

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-23-2011

Weather Pt Cloudy 65° Time 11:30 AM

File ORTHO-SM-3-23-11

Photo ID # 15

Description NE COR. OF CONC. DRIVE @
ASPHALT APPROACH

△ N: △ E: △ Z: Ant. Ht. 1.8 M

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 (4)

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____
15 5

Sketch (if Necessary)

Picture of Set Up

Picture # _____
16 5

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY, Date 3-22-2011

Weather Pt SUNNY 65 Time 11:45

File ORTHO - SM - 3-23-11

Photo ID # 15 B

Description _____

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

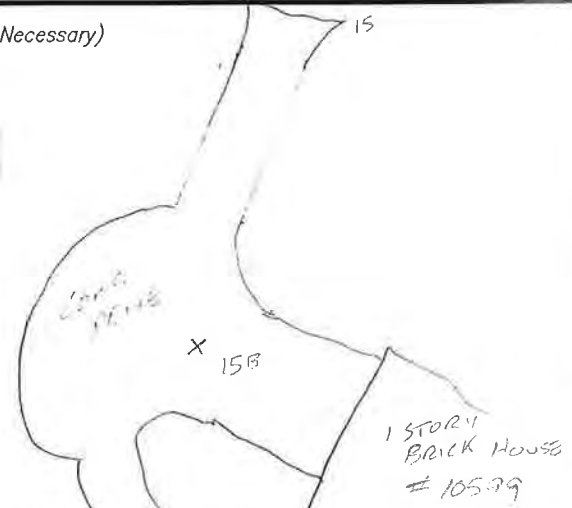
Picture # _____

17 E

Block 1 2 3 4

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

18 N

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-24-2011
Weather 40° Cloudy Time 11:00
File ORTHO - SM - 3-24-11

Photo ID # 16
Description NE COR. PAINT MARKING
CAMP SITE # 29 @ PATOKA LAKE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____
27 117

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	<u>Orange</u>	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____
28 118

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-25-2011

Weather 40° CLOUDY Time 10 AM

File ORTHO-SM-3-25-11

Photo ID # 17

Description _____

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
 3 4

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

COULD NOT START VRS #5700

Close Up

Picture # _____

42, 134

Block 1 2 3 4

- | | | | |
|--------|-----------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | Washington | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | <u>Jackson</u> | Tipton | Marshall |
| | <u>Lawrence</u> | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Sketch (if Necessary)

Picture of Set Up

Picture # _____

43
135

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-24-2011
Weather 40° CLOUDY Time 3:40 PM
File ORTHO-SM-3-24-11

Photo ID # 18
Description COR OF CONC WALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Close Up

Picture # _____

38

129

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	<u>Orange</u>	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

39

130

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-29-11
Weather CLOUDY 45° Time 9:00 AM
File ORTHO 3-29 CS

Photo ID # 19
Description CORNER OF PAVEMENT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~MARK~~ Obs. 1 Obs. 2 TSC 2 #5 #6
INT. BASE

Close Up

Picture # 58

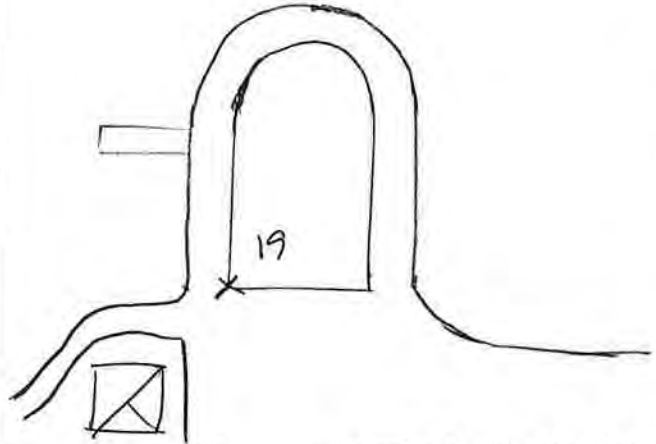
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 59
LOOKING S.

Sketch (if Necessary)



Comments / Notes MOVED TO THIS LOCATION
BECAUSE OF SIDEWALK AND CURB

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-23-2011

Weather Pt SUNNY 70° Time 2:15

File ORTHO-SM-3-23-11

Photo ID # 20

Description NW COR CONC WALK

Δ N: Δ E: Δ Z: Ant. Ht.

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____

21 E

Block 1 2 3 (4)

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

22 N

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-24-11
Weather CLOUDY 45° Time 10:30 AM
File ORTHO-3-23CS

Photo ID # 21
Description SW. CORNER OF SIDEWALK

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~MMRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Block 1 2 3 (4)

County <u>Harrison</u>	Morgan	Cass
Crawford	Marion	Fulton
Washington	Hendricks	Pulaski
Orange	Boone	Kosciusko
Jackson	Tipton	Marshall
Lawrence	Clinton	Starke
Bartholomew	Howard	Elkhart
Brown	Carroll	St. Joseph
Monroe	Wabash	Other _____
Johnson	Miami	

Close Up

Picture # 23

Sketch (if Necessary)

Picture of Set Up

Picture # 29
LOOKING N.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STILSON Date 3-24-11
Weather CLOUDY 45° Time 8:15 AM
File ORTHO-3-24-CS

Photo ID # 22
Description N. EDGE OF DRIVE @ W. EDGE OF PVMT. HILL GROVE RD.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~MARK~~ Obs. 1 Obs. 2 TSC 2 #5 #6
INT. BASE

Close Up

Picture # 22

Block 1 2 3 (4)

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	<u>Orange</u>	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	<u>Brown</u>	Carroll	St. Joseph
	<u>Monroe</u>	Wabash	Other _____
	<u>Johnson</u>	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 23
LOOKING W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STILSON Date 3-24-11
Weather CLOUDY 45° Time 8:45 AM
File ORTHO-3-24 CS

Photo ID # 22A
Description DRIVE + E. EDGE OF PUMT.

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~HWRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

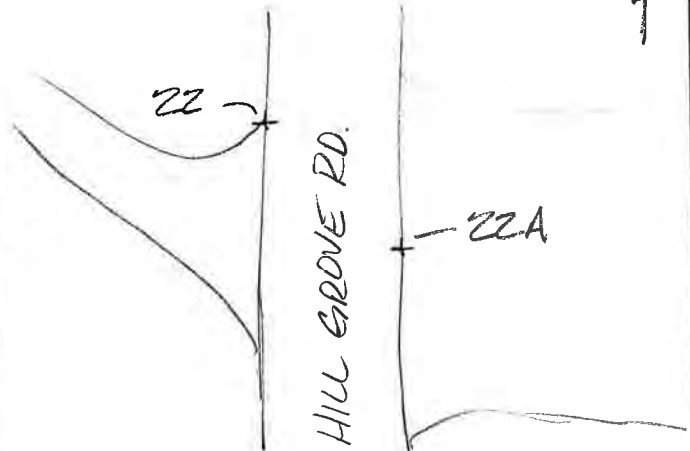
Block 1 2 3 4

County <u>Harrison</u>	Morgan	Cass
Crawford	Marion	Fulton
Washington	Hendricks	Pulaski
Orange	Boone	Kosciusko
Jackson	Tipton	Marshall
Lawrence	Clinton	Starke
Bartholomew	Howard	Elkhart
Brown	Carroll	St. Joseph
Monroe	Wabash	Other _____
Johnson	Miami	

Close Up

Picture # 24

Sketch (if Necessary)



Picture of Set Up

Picture # 25
LOOKING W

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-23-11
Weather P. SUNNY Time 12:50 PM
File ORTHO-3-23-CS

Photo ID # 23
Description S.E. CORNER CONC. DRIVE
APPROACH TO GARAGE

Δ N: Δ E: Δ Z: Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~MARK~~ Obs. 1 Obs. 2 TSC 2 #5 #6
ILT BASE

Close Up

Picture # 18

Block 1 2 3 (4)

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	<u>Orange</u>	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	<u>Bartholomew</u>	Howard	Elkhart
	<u>Brown</u>	Carroll	St. Joseph
	<u>Monroe</u>	Wabash	Other _____
	<u>Johnson</u>	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 19
LOOKING N.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-28-2011

Weather 45° SUNNY Time 3:00 PM

File ORTHO-5M-3-28-11

Photo ID # 24

Description TIP OF PAINTED ARROW IN ASPHT. P-LOT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

51
143

Sketch (if Necessary)

Picture of Set Up

Picture # _____

52
144

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-29-2011

Weather 40° CLOUDY Time 7:30 AM

File ORTHO-SM-3-29-11

Photo ID # QC1

Description COR. OF LOCL. DRIVE @ ASPH ROAD

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Close Up

Picture # _____

~~21~~
~~148~~

162

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	Bartholomew	Howard	Eikhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

~~42~~
~~49~~

163

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-29-2011
Weather 40° CLOUDY Time 8 AM
File ORTHO - 5M - 3-29-11

Photo ID # QCI B
Description MIDDLE OF CONC. DRIVE
60' E WESTBLY OF QCI (SAME PROPERTY)

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
5700

Close Up

Picture # _____

1

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

~~43/150~~

164

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-28-2011

Weather 45° SUNNY Time 3:30

File ORTHO - SM - 3.28.11

Photo ID # QC2A

Description COR. OF CONC. DRIVE @ CUL DE SAC

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Close Up

Picture # _____

53
147

Block 1 2 3 (4)

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

54
146

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-28-2011

Weather 45° Sunny Time 3:45

File ORTHO-SM-3-28-11

Photo ID # QC2 B

Description CENTER OF CUL-DE-SAC
40' ± S. OF QC2A

△ N: △ E: △ Z: Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Close Up

Picture # _____

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

55
147

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-28-2011
Weather 40° SUNNY Time 12:00 PM
File ORTHO-SM-3-28-11

Photo ID # QC3
Description CONC. SIDEWALK COR

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

#5700

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

47

139

Sketch (if Necessary)

Picture of Set Up

Picture # _____

48

140

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3.25.2011
Weather 40° CLOUDY Time 1 PM
File ORTHO - SM - 3.25 - 1

Photo ID # QC4
Description P. LOT HAS BEEN SEALED & NO PAINT SHOWING (MOVED 250± SO. FT)

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

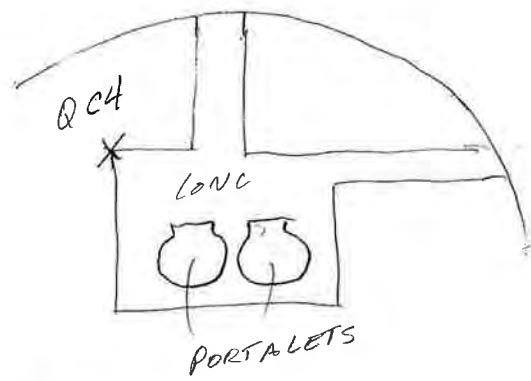
Picture # _____
45
137

Block 1 2 3 (4)

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	<u>Jackson</u>	Tipton	Marshall
	<u>Lawrence</u>	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

ASPHALT



Picture of Set Up

Picture # _____
46
138

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-24-2011

Weather 40° CLOUDY Time 2:45 PM

File ORTHO - SM - 3-24.11

Photo ID # QCS

Description ORIGINAL LOCATION HAS BEEN REMOVED

Δ N: _____ Δ E: _____ Δ Z: _____ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

5700

Block 1 2 3 4

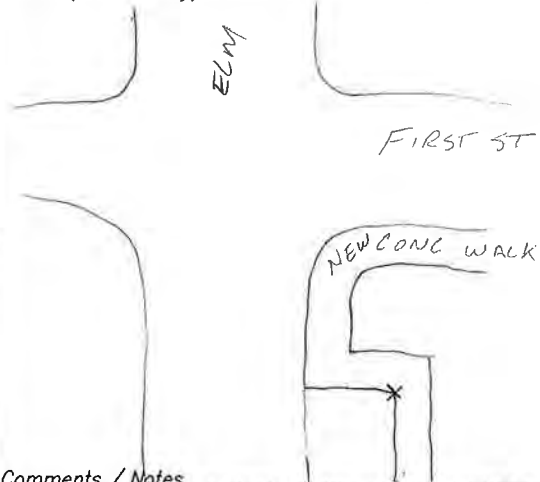
County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	<u>Orange</u>	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

36
127

Sketch (if Necessary)



Picture of Set Up

Picture # _____

37
128

Comments / Notes

ENTIRE AREA IS UNDER CONSTRUCTION
ALL NEW SIDEWALKS & CURBS
NEW LOCATION IS IN SAME QUADRANT
@ COR. OF NEW SIDEWALK

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-25-11

Weather CLOUDY 40° Time 8 AM

File ORTHO-SM-3-25-11

Photo ID # 026

Description COR. OF CONC. APPROACH TO CHURCH
P. LOT

△ N: △ E: △ Z: Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

INTERNET RTK 1 2 #5700
COULD NOT START VRS

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	<u>Orange</u>	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # _____

40
132

Sketch (if Necessary)

Picture of Set Up

Picture # _____

161

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-24-2011
Weather 40° CLOUDY Time 1 PM
File ORTHO - SW - 3-24-11

Photo ID # QCTA
Description SW COR CONC. DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____
31
121

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	<u>Orange</u>	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____
32
122

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-24-2011
Weather 40° CLOUDY Time 1:15 PM
File ORTHO-SM-3-24-11

Photo ID # QCTB
Description MIDDLE OF CONC. DRIVE
130' E N. OF QCTA

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. _____
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

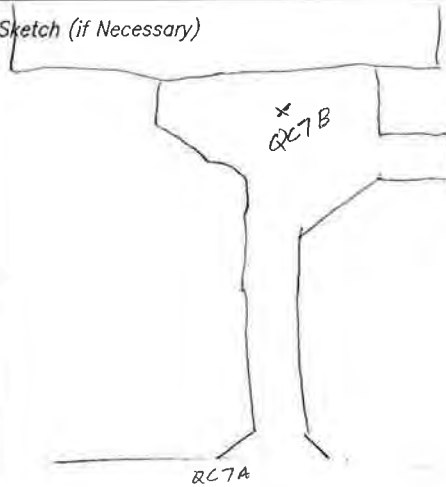
Picture # _____

33
124

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	<u>Orange</u>	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____

34
125

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-23-2011
Weather PT SUNNY 75° Time 3:15
File ORTHO-SM-3-23-11

Photo ID # QCB
Description SW PAINT COR. @ SW COR. B-BALL COURT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

Close Up

Picture # _____
23 E

Block	1	2	3	<u>(4)</u>
County	Harrison Crawford Washington <u>Orange</u> Jackson Lawrence Bartholomew Brown Monroe Johnson	Morgan Marion Hendricks Boone Tipton Clinton Howard Carroll Wabash Miami	Cass Fulton Pulaski Kosciusko Marshall Starke Elkhart St. Joseph Other _____	

Sketch (if Necessary)



Picture of Set Up

Picture # _____
24 E

Comments / Notes MOVED TO SW PAINT COR. DUE TO MUD ON ORIGINAL COR FROM DITCH EXCAVATION TO THE EAST OF COURT

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-23-2011
Weather PT CLOUDY 70° Time 1:30PM
File ORTHO SM - 3-23-11

Photo ID # QC9
Description 4 SQUARE PAINT HAS BEEN SEAL COATED OVER. MOVED TO S. SIDE OF BLDG

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. _____
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRK Obs. 1 Obs. 2 TSC 2 #5 #6
#5700

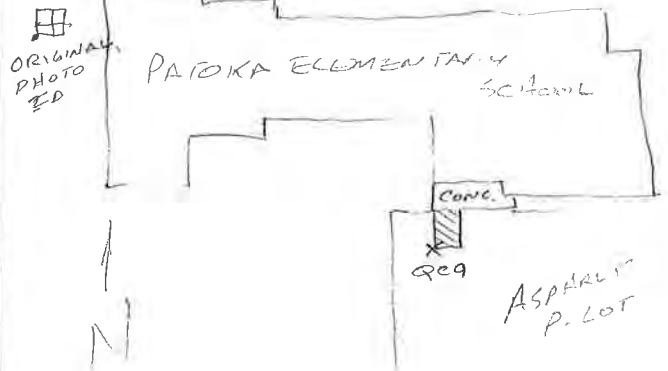
Close Up

Picture # _____
19 N

Block 1 2 3 4

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____
20 N

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-22-2011

Weather PT SUNNY 65° Time 12:20 PM

File ORTHO-SM-3-22-11

Photo ID # QC10

Description MOST NORTHERN COR. OF STOP BAR ASPHALT

Δ N: Δ E: Δ Z: Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 7 SW

Block 1 . 2 3 4

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 8 SW

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-22-2011
Weather PT SUNNY 70° Time 2:45 PM
File ORTHO-SM-3-22-11

Photo ID # QC11
Description BEND PT. IN CONC. DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. _____

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

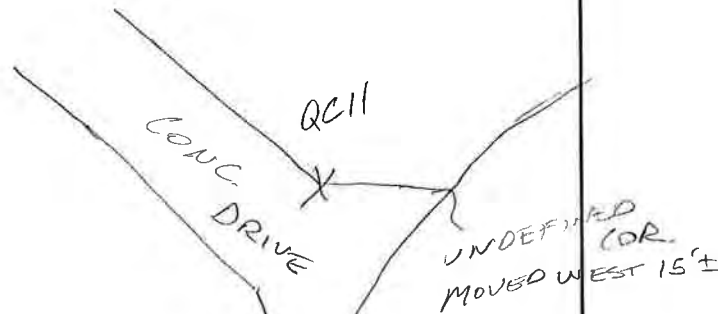
Close Up

Picture # _____
11 w

Block 1 2 3 4

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # _____
12 w

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name SEAN MURPHY Date 3-22-2011

Weather PT SUNNY 68° Time 1:10

File ORTHO-SM-3-22-11

Photo ID # QC12

Description COR OF ASPHALT PARKING AREA

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. _____

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # _____

9 N

Block 1 2 3 4

County	<u>Harrison</u>	Morgan	Cass
	<u>Crawford</u>	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # _____

10 N

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-28-11
Weather SUNNY 40° Time 11:30 AM
File ORTHO 3-28 CS

Photo ID # QC13
Description N. SIDE WALK @ W. SIDE DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 M
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~MWRK~~ Obs. 1 Obs. 2 TSC 2 #5 #6
INT. BASE

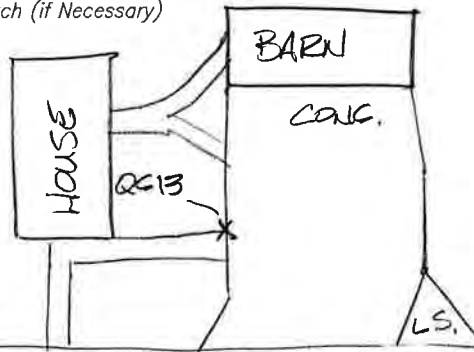
Close Up

Picture # 52

Block 1 2 3 (4)

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 53
LOOKING N

W. COX FERRY RD

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-29-11
Weather M. SUNNY 55° Time 3:05 PM
File ORTHO 3-29 CS

Photo ID # QCA
Description DRIVE AT E. PVMT

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~MARK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Close Up

Picture # 64

Block 1 2 3 (4)

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 65
LOOKING E.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1 GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-29-11
Weather M. SUNNY 55° Time 3:40
File ORTHO 3-29 CS

Photo ID # QC14A
Description CENTER CONK. DRIVE

△ N: △ E: △ Z: Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
MWRTK Obs. 1 Obs. 2 TSC 2 #5 #6

Close Up

Picture # 66

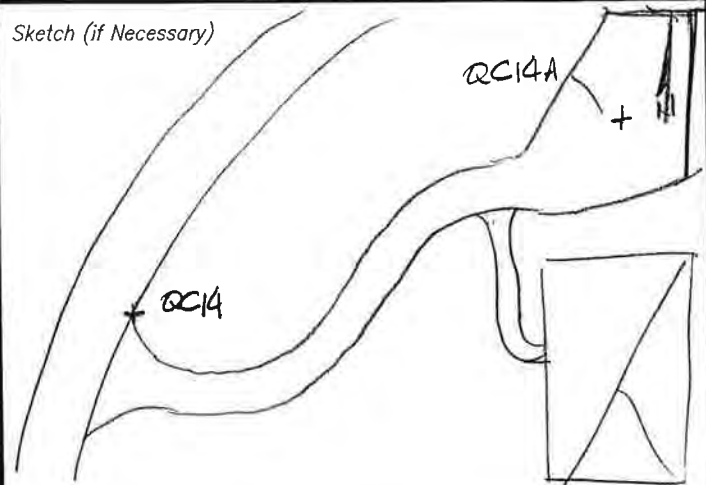
Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 67
LOOKING S.

Sketch (if Necessary)



Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-25-11
Weather CLOUDY 45° Time 11:00 AM
File ORTHO 3-25 CS

Photo ID # QC15
Description SE. CORNER CONC. DRIVE
C W. EDGE PVM.T. WASHINGTON SCHOOL RD.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8 m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~MARK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Block 1 2 3 (4)

Close Up

Picture # 43

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 44
LOOKING W.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-25-11
Weather CLOUDY 40° Time _____
File ORTHO 3-25 CS

Photo ID # QC15A
Description E DRIVE TO HOUSE # 6701

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
INCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~HWRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6
JAFT. BASE

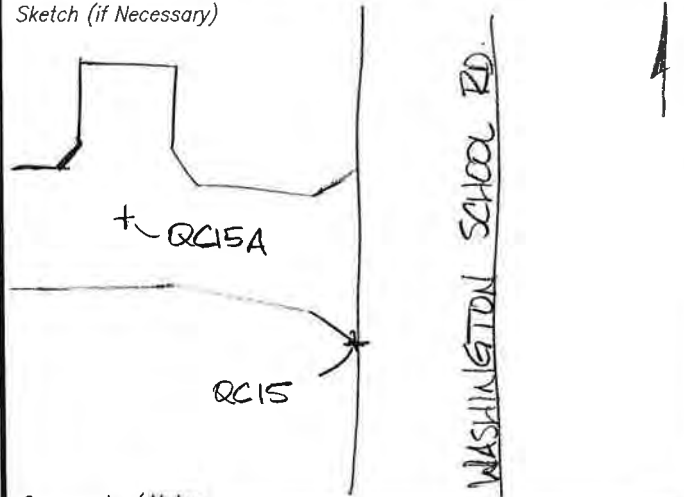
Close Up

Picture # 50

Block 1 2 3 (4)

- | | | | |
|--------|-------------------|-----------|-------------|
| County | Harrison | Morgan | Cass |
| | Crawford | Marion | Fulton |
| | <u>Washington</u> | Hendricks | Pulaski |
| | Orange | Boone | Kosciusko |
| | Jackson | Tipton | Marshall |
| | Lawrence | Clinton | Starke |
| | Bartholomew | Howard | Elkhart |
| | Brown | Carroll | St. Joseph |
| | Monroe | Wabash | Other _____ |
| | Johnson | Miami | |

Sketch (if Necessary)



Picture of Set Up

Picture # 51
LOOKING W.

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-29-11
Weather M. CLOUD 55° Time 4:30 PM
File ORTHO 3-29 CS

Photo ID # QC16
Description DRIVE AT E. PUMT.

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~MMRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Block 1 2 3 4

Close Up

Picture # 68

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 69
LOOKING N.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-29-11
Weather M. Clouds 55° Time _____
File ORTHO 3-29 CS

Photo ID # QC16A
Description CENTER OF DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~MMRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6
INT. BASE

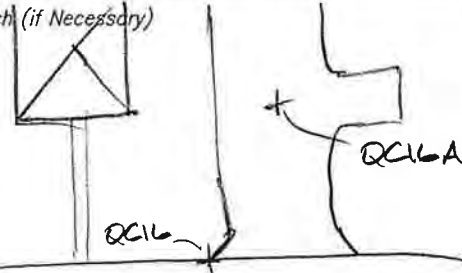
Close Up

Picture # 70

Block 1 2 3 4

County	Harrison	Morgan	Cass
	Crawford	Marion	Fulton
	<u>Washington</u>	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 71
LOOKING N.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-24-11
Weather CLOUDY 42° Time 12:00 PM
File ORTHO-3-24 CS

Photo ID # QC17 *MOVED
Description NW. CORNER OF N. RR "X" STOP BAR

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8m
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~HWRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6
INT. BASE

Close Up

Picture # 30

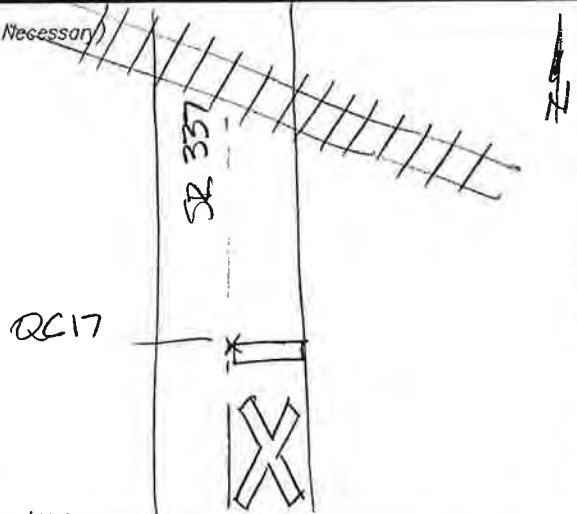
Block 1 2 3 (4)

County	<u>Harrison</u>	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Picture of Set Up

Picture # 31
LOOKING N.

Sketch (if Necessary)



Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-24-11
Weather CLOUDY 40° Time 6:00 PM
File ORTHO-3-24 CS

Photo ID # 0213
Description CORNER CONC. DRIVE W. SIDE
AT E. Pkwy. DICKSON DR

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. _____
InCORS Obs. 1 Obs. 2 Ant. Type R6 5800
~~MMRTK~~ Obs. 1 Obs. 2 TSC 2 #5 #6
INT. BASE

Close Up

Picture # 38

Block 1 2 3 4

County	<u>Harrison</u>	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)

Picture of Set Up

Picture # 39
LOOKING S.

Comments / Notes _____

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-24-11
Weather CLOUDY 40° Time 6:30 PM
File ORTHO-3-24CS

Photo ID # QCIBA
Description CELTIC DRIVE

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. _____

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~MARK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

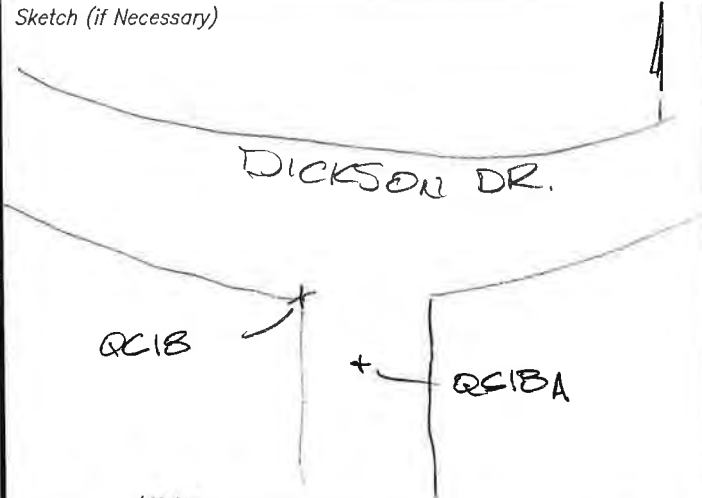
Close Up

Picture # 40

Block 1 2 3 4

County	<u>Harrison</u>	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Sketch (if Necessary)



Picture of Set Up

Picture # 41

LOOKING S

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-24-11
Weather CLOUDY 45° Time 9:30 AM
File ORTHO-3-24 CS

Photo ID # QC19
Description CORNER OF CONG. DRIVE & SIDEWALK

△ N: _____ △ E: _____ △ Z: _____ Ant. Ht. 1.8M

INCORS Obs. 1 Obs. 2 Ant. Type R6 5800

MWRK Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Block 1 2 3 (4)

County	<u>Harrison</u>	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # 26

Sketch (if Necessary)

Picture of Set Up

Picture # 27
LOOKING N.E.

Comments / Notes

For Office Only:

Overview Picture



2011 Statewide Ortho - Tier 1
GPS Photo ID Log Sheet

Observer's Name STINSON Date 3-23-11

Weather CLOUDY 76° Time 2:00 PM

File ORTHO-3-23-CS

Photo ID # QC20

Description SE. CORNER CONC. SIDEWALK
TO BACK OF HOUSE

△ N: ___ △ E: ___ △ Z: ___ Ant. Ht. 1.8 M

InCORS Obs. 1 Obs. 2 Ant. Type R6 5800

~~MARK~~ Obs. 1 Obs. 2 TSC 2 #5 #6

INT. BASE

Block 1 2 3 4

County	<u>Harrison</u>	Morgan	Cass
	Crawford	Marion	Fulton
	Washington	Hendricks	Pulaski
	Orange	Boone	Kosciusko
	Jackson	Tipton	Marshall
	Lawrence	Clinton	Starke
	Bartholomew	Howard	Elkhart
	Brown	Carroll	St. Joseph
	Monroe	Wabash	Other _____
	Johnson	Miami	

Close Up

Picture # 20

Sketch (if Necessary)

Picture of Set Up

Picture # 21
LOOKING W.

Comments / Notes _____

For Office Only:

2011 INDIANA STATE-WIDE
IMAGERY AND LIDAR PROGRAM
CENTRAL TIER
BLOCKS 1 – 4
USI Job Number: 2011-024

Appendix R

Block 4 Data Disk