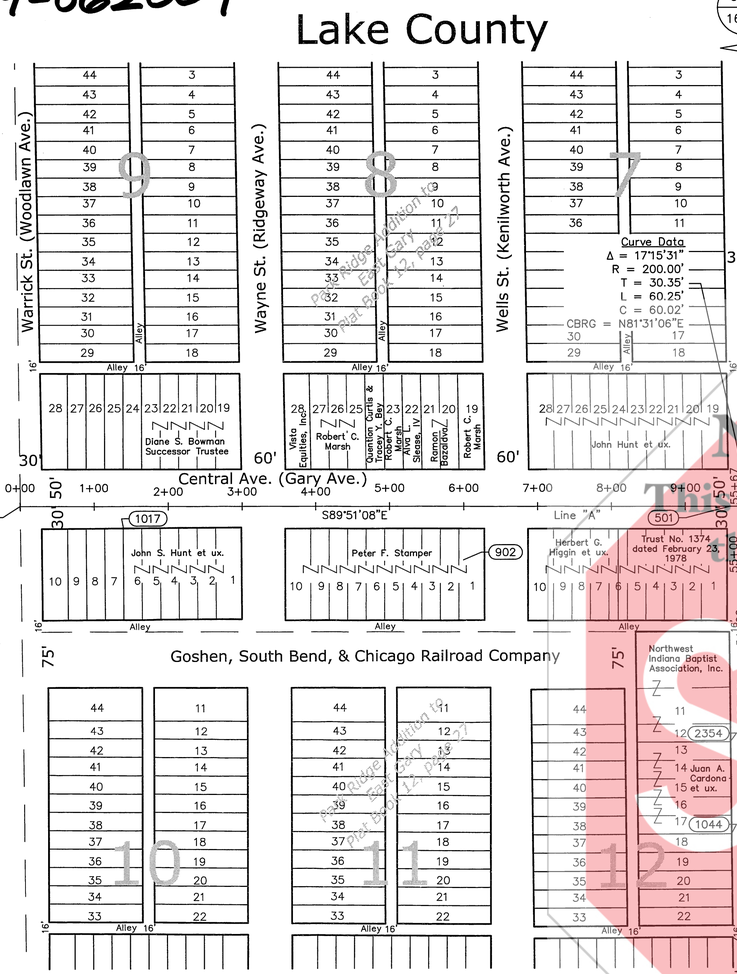
1#20 CS CA

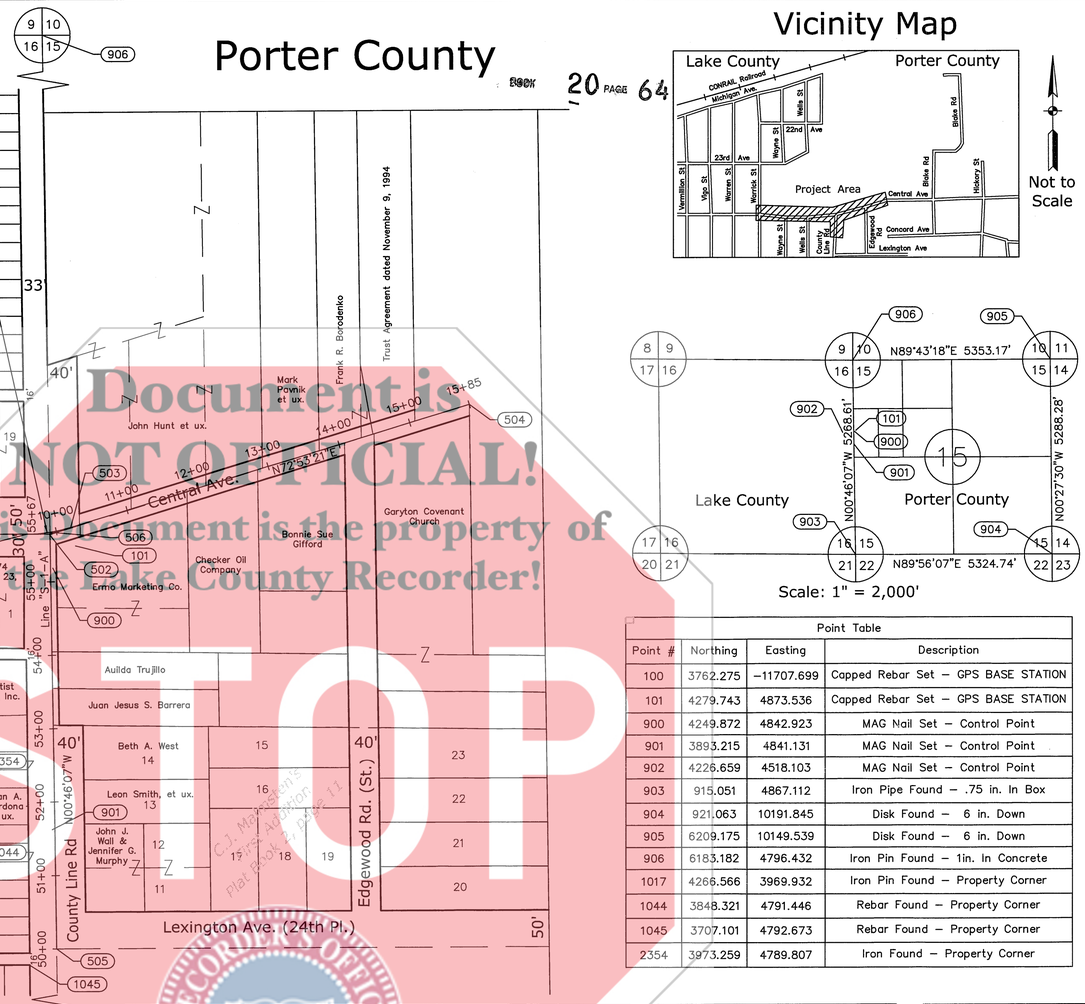
20/64 2009-062004

000164

Lake County



Porter County



Vicinity Map

SCALE: 1"=100'

STATE OF INDIANA
LAKE COUNTY
FILED FOR RECORD
2009 SEP -9 PM 1:19
MICHAEL A. BROWN
RECORDER

2009 062004

FILED
SEP 09 2009
PEGGY HOLINGA KATONA
LAKE COUNTY AUDITOR

SURVEYOR'S REPORT

Route Survey – Central Ave.
Project: Central Ave Improvements
Lake & Porter Counties, Indiana

FIELDWORK
7/29/2009 – 7/31/2009

GENERAL
Monument reference ties are shown on the route survey plat. Should additional USPLS corners be needed where none were found, they should be re-established and tied into this survey.

Field measurements for this survey are in accordance with the specifications outlined in 865 IAC 1-12-22. Measurements are shown to the nearest 0.01 feet and coordinates are shown to the nearest 0.001 feet, not to indicate the precision of the work, but to allow for closure and adjustment by others if desired.

The Relative Positional Accuracy (due to random errors of measurement) of this survey is within that allowable for a Route Survey (0.07 feet plus 50 ppm) as defined in 865 IAC 1-12-7.

HORIZONTAL CONTROL
The coordinates shown are of a local ground coordinate system. All control point and section corner coordinates shown on this survey were computed from observations between a base station and a rover using a Timmark 3 radio broadcasting CMR+ corrections. The basis of bearings for this project was grid north (Indiana West Zone). The initial control for this survey was based on RTK GPS observations with a minimum of two hours of base station observation and raw data collection. The GPS base station (#100) was placed at an autonomous position over a set rebar. The coordinates of said rebar were established using Online Positioning User Service (OPUS) solution #11342080. The datum is NAD 83 (CORS96) (EPOCH: 2002). The GEOID Model used was GEOID03. The local ground coordinate for said base station (#100) was N: 3762.275 / E: –11,707.699. The point scale factor was 0.99997006, the elevation scale factor was 0.99997520, and the combination scale factor was 0.99994526, (ground coordinates to grid coordinates). A second GPS base station (#101), local ground coordinate (N: 4279.743 / E: 4873.536), was established from GPS base station #100. Points #900–904 were observed with said base station #101. The local coordinate system was created by taking state plane coordinates, adjusting them to ground coordinate values, and then truncating the northings by subtracting 2,300,000.000, and truncating the eastings by subtracting 2,910,000.000, yielding a local ground coordinate system that does not have the appearance of state plane values.

ALIGNMENTS
All alignments shown on this plat are survey control lines, for a road improvement project.

Line "A" was established along the approximate centerline of the existing Central Ave. from topographic data, as shown on this plat.

Line "S–1–A" was established coincident with the West line of the Northwest Quarter of Section 15, T35N, R7W as shown on this plat.

EXISTING RIGHT–OF–WAY
Central Ave. (Line "A")
Lake County: The 80–foot existing right–of–way for Central Ave. in Lake County was established by the Plat of "Park Ridge Addition to East Gary" (Plat Book 12, page 27).

Porter County: The 30–foot existing right–of–way for Central Ave., in Porter County, was established by an assumed 15–foot pavement width either side of the established centerline based upon topography.

County Line Rd. (Line "S–1–A")
Lake County: The western 33–foot existing right–of–way for County Line Rd. in Lake County was established by the Plat of "Park Ridge Addition to East Gary" (Plat Book 12, page 27).

Porter County: The 40–foot eastern existing right–of–way for portions of County Line Rd. in Porter County were established by the Plat of "Molmsten's Addition" (Plat Book 2, page 11) and Instrument Number 2006–022167 (40–foot exception for right–of–way). Other portions of the eastern existing right–of–way County Line Rd. are based on an assumed 8–foot pavement width based upon topography.

To the best of my knowledge and belief, this route survey was executed in accordance with Title 865, Article 1, Chapter 12–20 through 12–25 of the Indiana Administrative Code as such pertains to Route Surveys. The following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established on this survey as a result of:

(i) Availability and condition of reference monuments.

The reference monuments for this survey are located in Section 15, Township 36 North, Range 7 West of the Second Principal Meridian, Porter County, Indiana and have been located using reference ties from the Porter County Surveyor's Office. Their horizontal positions are based on field observations taken during this route survey. There is, in my opinion, an uncertainty of +/– 0.50 foot in said reference monuments.

(ii) Occupation or possession lines.

In my opinion, there is negligible uncertainty due to occupation and possession in Lines "A" & "S–1–A" and the corners found and established by this survey.

Jason E. Main
Professional Land Surveyor LS20900184
Date: September 8, 2009

Prepared By Jason Maine

Point Table			
Point #	Northing	Easting	Description
100	3762.275	–11707.699	Capped Rebar Set – GPS BASE STATION
101	4279.743	4873.536	Capped Rebar Set – GPS BASE STATION
900	4249.872	4842.923	MAG Nail Set – Control Point
901	3893.215	4841.131	MAG Nail Set – Control Point
902	4226.659	4518.103	MAG Nail Set – Control Point
903	915.051	4867.112	Iron Pipe Found – .75 in. In Box
904	921.063	10191.845	Disk Found – 6 in. Down
905	6209.175	10149.539	Disk Found – 6 in. Down
906	6183.182	4796.432	Iron Pin Found – 1in. In Concrete
1017	4266.566	3969.932	Iron Pin Found – Property Corner
1044	3848.321	4791.446	Rebar Found – Property Corner
1045	3707.101	4792.673	Rebar Found – Property Corner
2354	3973.259	4789.807	Iron Found – Property Corner

POINT 500 MAG Nail Set
P.O.T. Sta. 0+00 Line "A"
N. 4296.576 / E. 3830.431

POINT 501 MAG Nail Set
P.C. Sta. 9+59.83 Line "A"
N. 4294.101 / E. 4790.263

POINT 502 MAG Nail Set
P.I. Sta. 9+90.18 Line "A"
NO MONUMENT SET
N. 4294.023 / E. 4820.614

POINT 503 MAG Nail Set
P.T. Sta. 10+20.08 Line "A"
N. 4302.953 / E. 4849.623

POINT 504 MAG Nail Set
P.O.T. Sta. 15+84.81 Line "A"
N. 4469.111 / E. 5389.361

POINT 505 MAG Nail Set
P.O.T. Sta. 50+00 Line "S–1–A"
N. 3729.110 / E. 4829.357

POINT 506 MAG Nail Set
P.O.T. Sta. 55+67.45 Line "S–1–A"
N. 4296.512 / E. 4821.744

CONTROL POINT 101 5/8" Rebar BASE
N. 4279.743 / E. 4873.536

CONTROL POINT # 900 MAG Nail
N. 4249.872 / E. 4842.923

CONTROL POINT #901 MAG Nail
N. 3893.215 / E. 4841.131

CONTROL POINT #902 MAG Nail
N. 4226.659 / E. 4518.103

SW COR SEC 15,T36N, R7W
SEC COR #903
N. 915.051 / E. 4867.112

SE COR SEC 15,T36N, R7W
SEC COR #904
N. 921.063 / E. 10191.845

NE COR SEC 15,T36N, R7W
SEC COR #905
N. 6209.175 / E. 10149.539

NW COR SEC 15,T36N, R7W
SEC COR #906
N. 6183.182 / E. 4796.432

SURVEY STARTED	7/27/2009
SURVEY COMPLETED	7/31/2009
1 OF 1	

AMERICAN STRUCTUREPOINT INC.
7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com

SURVEYOR STATEMENT

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 I.A.C. 1–12–20 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF ANY NEW PARCELS TO BE ACQUIRED OR THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.

JASON E. MAIN REGISTERED No. LS20900184 STATE OF INDIANA LAND SURVEYOR

"I AFFIRM UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW."

RECOMMENDED FOR APPROVAL
REGISTERED LAND SURVEYOR — DATE 9/08/2009

INDIANA DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY PLAT

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	
COUNTY	DESIGNATION
Lake / Porter	0810298
SURVEY BOOK	PLAN SHEETS
	OF
CONTRACT	PROJECT
	0810298

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