

INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Design Memorandum No. 13-17 Technical Advisory

August 15, 2013

TO:	All Design, Operations, and District Personnel, and Consultants
FROM:	<u>/s/ Eric N. Banschbach. P.L.S.</u> Eric N. Banschbach, P.L.S Manager, Land and Aerial Survey Office
SUBJECT:	Location Control Route Survey (LCRS) and LCRS Plat
REVISES:	Indiana Design Manual Section 26-2.0, item 6, Figure 26-2D
EFFECTIVE:	Surveys starting on or after August 15, 2013

In an effort to provide consistency, compatibility, and repeatability of information provided as part of a survey transmittal, INDOT now requires additional coordinate data to be provided for monuments associated with the completion of a Location Control Route Survey (LCRS) and the transmitted LCRS plat.

These additional requirements are in no way intended to affect the minimum requirements of a Route Survey as established by Indiana Administrative Code 865.

Indiana Design Manual (IDM) Section 26-2.0, item 6 has been revised to reflect the additional requirements for performing an LCRS. *IDM* Figure 26-2D has been revised to include the additional information required on the LCRS plat. The revised IDM Section and Figure are attachments to this memo.

ENB:ewp

26-2.0 OTHER SURVEY INFORMATION [REV. AUG. 2013]

A complete survey transmittal includes other survey information that is relevant to the project. This is described below. A submittal may be downloaded directly into the INDOT Electronic Records management System (ERMS) or the current version of INDOT's electronic document repository. However, each submittal shall include the minimum amount of information as outlined below, whether in electronic format, hardcopy, or a combination of the two.

1. <u>Survey-Envelope Contents</u>. The survey envelope should be a 9-in. x 12-in. manila envelope, or comparable type. It shall include all property-owner-interview sheets and the recorded LCRS. All other information should be packaged in a separate envelope and submitted with the completed survey.

Figure 26-2A, Survey-Envelope Label, illustrates how the survey envelope should be labeled. The outside of the survey envelope should include the following:

- a. route number and location description as it appears on the schedule sheet;
- b. designation number;
- c. project number, if available;
- d. structure number, if applicable;
- e. county;
- f. district;
- g. date of survey;
- h. survey-party personnel, with designated party chief; and
- i. list of envelope contents.
- 2. <u>Survey Book</u>. The survey book, a hardcopy or .pdf version, shall be submitted with the final survey materials.
- 3. <u>Miscellaneous Envelope</u>. See Figure <u>26-2B</u>, Miscellaneous Envelope. The miscellaneous envelope should be placed in the back of the survey book and should include the following:
 - a. copies of section plats to indicate adjoining property owners;
 - b. copies of digital photographs; and
 - c. section-corner reference cards (see Figure 26-2C).
- 4. <u>Property Deeds</u>. Property deeds that are within the survey limits and those deeds which appear necessary for other reasons shall be obtained by the survey party. Property deeds shall be submitted with the field survey and forwarded to the Office of Real Estate.

- 5. <u>Subdivision Plat</u>. Subdivision plats and town plats, if applicable, should be placed in the envelope that is submitted to the Department.
- 6. <u>LCRS</u>. A Location Control Route Survey (LCRS), and the associated LCRS plat, are required for an INDOT project that requires the purchase of right of way. The LCRS shall, at a minimum, comply with the requirements established by IAC 865 when conducting a route survey. A copy of the recorded LCRS plat is required for use by the Office of Real Estate. The recorded LCRS plat shall be submitted on 24" x 36" media (see Section 14-3.03); however the exact size of the recorded document is subject to requirements of the appropriate Office of the County Recorder. See Figure <u>26-2D</u>, Location-Control Route-Survey Plat Example. The following guidelines are intended to aid in developing an LCRS to satisfy IAC 865, but are not intended to replace the surveyor's judgment as to what should appear in the survey.
 - a. The LCRS plat size may be reduced to satisfy specific requirements for recordation. The reduction should be considered in choosing font sizes and line thickness for the original-sized version.
 - b. Indicate the scale along with a graphical representation of the scale. A standard engineering scale shall be utilized. Consideration shall be made to ensure legibility at reduced scale that may be required for recordation. See Section 14-3.05(01).
 - c. Indicate the location of the project by identifying all roads on the plat. If no intersecting roads are within the project limits, include a description for the location in the surveyor's report.
 - d. Units shall be in US Survey feet. The U.S. Survey foot is defined based on 1 m = 39.37 in. The following conversion factor will be utilized:

1 meter = 3.280833333 U.S Survey feet.

e. Show all edges of pavement, fences, centerline points found or set, approximate locations of apparent property lines, buildings, etc. INDOT uses a separate plat for the LCRS and the Right of Way plat. For the LCRS, showing the right of way is not required. Only physical evidence of right of way is shown. The property lines shown on the field plat are for graphical representation only. They are not intended for a property retracement and may not be to scale.

- f. Indicate all centerline points, random control points, and reference baseline points that are set. The stationing used on the centerline should be shown and the basis of the stationing indicated in the surveyor's report. Section corners should also be graphically indicated on the plat where feasible due to scale considerations. All points should have references drawn according to the type of monument (e.g., centerline, section corner, subdivision corner, survey marker, etc.). The arrow for a centerline point indicates the direction of the alignment. For a section corner, the arrow indicates the direction for north. This should be shown in the reference boxes. See Figure 26-2D, Location-Control Route-Survey Plat Example.
- g. Indicate as to whether the monument was found or set, and include a description in the surveyor's report. This should include the size, type of monument, vertical description (e.g., flush, buried, protruding), location to physical features around the monument, origin (if known), uncertainty, etc.
- h. The location of the monument can be identified with an angle and distance, station and offset, or a coordinate system. Coordinates shall be reproducible with the information contained on the LCRS. Include all necessary information so that this may be accomplished. INDOT uses an assumed ground coordinate system. However, survey control ties shall be referenced to the Indiana State Plane Coordinate System. The metadata required and identified in 865 IAC Rule 12 in referencing state plane coordinates or utilizing Global Positioning System (GPS) shall be included.
- i. Copies of all road and/or bridge plans, both INDOT and local, within the area of the survey being conducted, shall be obtained prior to the start of the survey. If there are existing plans for the area, the survey alignment shown on said plans shall be reestablished and used for the survey being conducted. If plans are not available, a survey alignment shall be established in a close approximation of the center of present roadway. If a new roadway is proposed, the survey alignment shall be established based upon project location scope and corridor requirements. Survey alignments, established or reestablished, shall have monuments at all PCs, PIs, PTs, POTs, and intersections with other survey alignments. These monuments shall be any combination of the following:
 - 1) original survey alignment monument;
 - 2) monument set (where possible and practical); or
 - 3) monument that is not an original survey alignment monument, but is accepted as marking the original location. The surveyor's opinion as to the amount (in feet) of uncertainty of marking original location shall be provided.

Monuments shall be set on the survey alignment at intervals that typically do not exceed one quarter (1/4) mile from the nearest survey alignment monument. Said monuments shall be shown on the LCRS plat. A statement regarding the surveyor's opinion of cause and amount (in feet) of uncertainty associated with the reestablished survey alignment and stationing shall be provided on the LCRS plat.

k. The basis of bearings shall be on State Plane Coordinate (SPC) grid bearings.
 Local Ground Coordinates (LGC) shall be used for survey alignment data,
 topography, PLSS corners, and basis of all distances shown on the LCRS plat.

I.The monuments, as listed below, shall be shown on the LCRS plat with both a
LGC and SPC for each of the following:

- 1) PLSS corner monuments;
- 2) survey alignment monuments;
- 3) monuments that appear to locate property ownership;
- 4) monuments used as a basis of translation between LGC and SPC; and
- monuments located along roadway used to collect topographic details for the survey.
- m. The LGC shall be derived from an SPC that is converted to ground coordinates and translated, without rotation, to coordinate values smaller than SPCs, thereby not being mistaken as an SPC, and also having a value that, if the survey is extended, the LGC will not result in a negative value. This LGC shall not have the appearance of being a truncated SPC.

n. The following information shall be shown on the recorded LCRS plat:

- 1) the point number, with both SPC and LGC, used for translating SPC to LGC;
- the Combined Scale Factor (CSF), being the product of the Scale Factor and the Elevation Factor, used to translate an SPC to an LGC;
- 3) the formula used to convert data from LGC to an SPC; and
- the name, datum tag, and epoch date [for example, NAD83(2011) epoch 2010.00] used for GNSS data acquisition.

 Control monuments (coded PGPS for INDOT InRoads formatting) shall be set in an area near the roadway that would facilitate a direct GNSS observation. An existing found monument, meeting the parameters described herein, may be substituted as a control monument. The established SPC for each control

i.

monument, whether set or found, shall not be derived from or based on a traverse. Control monuments shall be located outside construction limits at the start of the project and at a similar location beyond the end of the project construction. Both the SPC and LGC for said control monuments shall be shown on the LCRS plat.

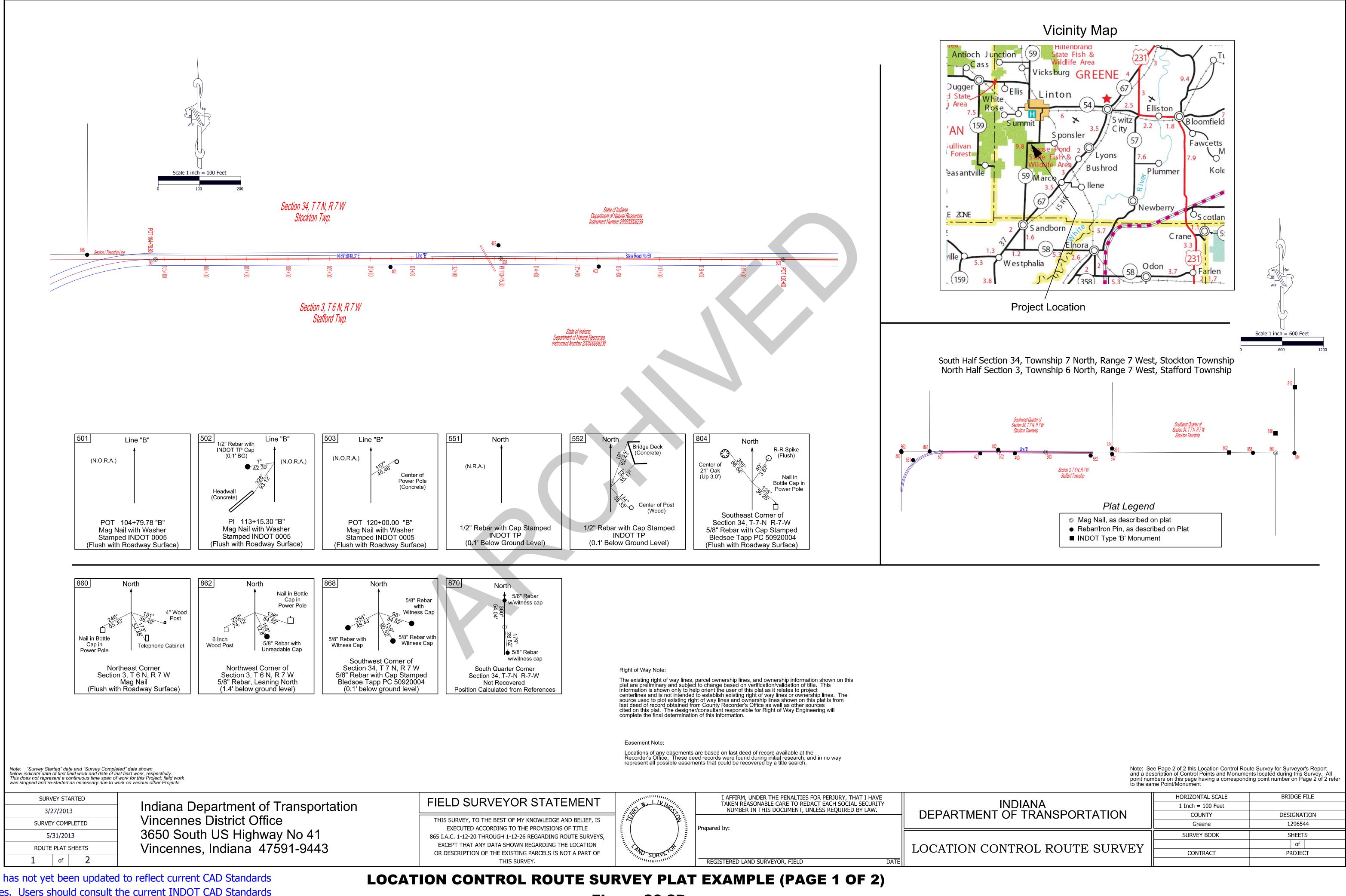
p. Precisions called for below are not an indication that they can be achieved, but only to assist in the conversions from LGCs to SPCs.

1) LGCs and SPCs shall be shown to four (4) digits to the right of the decimal when in US Survey feet, and five (5) digits to the right of the decimal when in meters.

2) Latitude and Longitude shall be shown in degrees, minutes, seconds (DMS) format, with seconds shown to six (6) places to the right of the decimal.

3) Combined Scale Factor (CSF) shall be shown to ten (10) places to the right of the decimal.

- q. Show the property owners' names on the plat at the time of the survey.
- r. Include all title-block information known at the time the plat is transmitted to the Office of Real Estate.
- 7. <u>Recorded Plats</u>. The recorded surveys that were obtained from the recorder's office should be submitted with the survey.
- 8. <u>Plans</u>. Copies of plans that have been obtained from the Central Office, district office, or other sources should also be submitted to the Department.
- 9. Electronic Data Submittal. All data or information submitted in digital format shall be copied to and stored on compact disc or digital video disc optical storage media, a copy of which shall be included with the submittal. A submittal can require larger memory storage capacity. If so, approval to submit data on media other than standard discs must be obtained prior to submittal. All submitted discs shall be labeled with the appropriate route number, designation number, location description, survey start and finish dates, and disc number. Disc labels shall not be hand written. The text on the label shall be in the Arial font with a minimum point size of 10. See Figure <u>26-2E</u>.



NOTE: This figure has not yet been updated to reflect current CAD Standards related to text styles. Users should consult the current INDOT CAD Standards Manual when producing the Location Control Route Survey document.

Figure 26-2D

Sur	veyor's Report		Control F	Points	
	4 at approximately3.51 miles south of Junction with State Road No 54. Freene County, Indiana, in Section 34, Township 7 North, Range 7 West and		501. POT Station 104+78.80 "B" - Mag Nail with washer s surface.	stamped "INDOT 0005", set flush with the Roadway	
Section 3, Township 6 North, Ran Purpose: Collect data for a Small It is not a property retracement su	nge 7 West. I structure rehabilitation project at the location listed above. Invey and any property lines and/or corners shown are based only on		502. PI Station 113+15.30 "B" – Mag Nail with washer sta surface.	mped "INDOT 0005", set flush with the Roadway	
physical evidence as collected du General Notes:	ring the field work.		503. PI Station 120+00.00 "B" – Mag Nail with washer sta surface.	mped "INDOT 0005", set flush with the Roadway	
All monument reference ties are s LCRS)	shown on the Location Control Route Survey Plat (herein after referred to as		551. 1/2 Inch rebar with cap stamped "INDOT TP", 0.1 fo	ot below ground level	
All measurements are in US Surv Route Survey Plat represent group	ey feet unless otherwise noted. All distances shown on this Location Contro nd measurements.	ol	State Plane Coordinates - U.S. Survey Foot - SPC (13		
Should additional USPLS corners and tied into this survey.	s be needed where none were found, they should be reestablished		1364436.3450NorthingUS Survey Foot2923567.3900EastingUS Survey Foot		
Field measurements for this survey were made in accordance with the specifications outlined in Indiana Administrative Code 865 IAC 1-12-20 through 1-12-25. The decimal precision shown on this plat for the measurements and coordinates is for consistency in the mathematical calculations, and not to indicate the precision of the field work conducted for this survey.			Latitude = 38°59'39.885019" N W. Longitude = 87°11'09.634459" W Position based on GPS Observations utilizing the InC used in all translations and rotations to local system. Surveyor's report for metadata		
 with Geoid Model 2012A connec Stations, NAD83[2011] Epoch 20 (Networked Transport of RTCM initialized at different locations, v 1983 State Plane Coordinate syste Coordinates for these control poin coordinate value of 40000.0000 N 88 degrees 30 minutes 58.47 Secon This gives a starting bearing of N Number 501 to Control Point Num this Survey. A combined scale factor (CSF) of was used for all locations collected translated to the Local coordinate All translations were done holdin The State Plane Coordinate locati 	he Control Point Table are positions located using a GPS Rover ted to the InCORS Network (INDOT Continuously Operating Reference 010.0). InCORS Network corrections (RTCM 3.1) were received via NTRIF via internet) using a cell phone modem. Multiple occupations, with receiver were done to verify control point positions. These positions are located in th em for Indiana, Zone 1302, in the US Survey foot unit. The State Plane hts were then converted to a Local ground coordinate system by assigning a North and 40000.000 East for Point Number 551 with a grid bearing of Nortl onds East to Point Number 552 (40066.8340 North and 42580.2370 East). orth 89 Degrees 50 Minutes 48.3 Seconds East from Control Point mber 502, and is the Basis of Bearing for all bearings shown on f 1.0000498379 (Grid distance multiplied by CSF equals ground distance) ed in State Plane Coordinates, converted to ground coordinates, and system used for this survey. g control Point 551 as the fixed origin.	n n h	552. 1/2 Inch rebar with cap stamped "INDOT TP", 0.1 fo State Plane Coordinates - U.S. Survey Foot - SPC (13 1364503.1760 Northing US Survey Foot 2926147.4990 Easting US Survey Foot Latitude = 38°59'40.573087" N W. Longitude = 87°10'36.955046" W Position based on GPS Observations utilizing the InC Uncertainty of Location for all control points is consid	02 Indiana West Zone) ORS Network.	
monuments on the survey line has	ve been destroyed. nd coordinate system used for this project can be converted to State Plane				
Northing = Local Northing Easting = Local Easting	SPC Northing = Northing in State Plane Coordinate in Indiana Zone 13 SPC Easting = Easting in State Plane Coordinate in Indiana Zone 130			Corners	
	(.9999501646)] = SPC Northing	l r	USPLS Corners		
 2923567.3900- [(40000 – Easting) (.9999501646)] = SPC Easting Survey on SR 59 south of Linton, in an area known locally as "Goose Pond", is for replacement of small structure under SR 59. This survey alignment, Line "B", is a reestablishment of Line "A" of Project No 725 Sec. "A" (1941), year 1940. Alignment: No original monuments set during the 1940 survey were recovered; therefore the existing center line locations 		s	804. Southeast Corner of Section 34, T 7 N, R 7 W Section corner records for Greene County indicate a 5/8 inch rebar with cap set at this location, as per a section corner record work done by Bledsoe, Tapp & Riggert, Inc. A 5/8 rebar with a cap stamped "Bledsoe Tapp PC 50920004" was recovered at this location, flush with the roadway surface. A railroad spike, 0.1 feet below the roadway surface, was found N 31°30'28" E, a distance of 3.90 feet from said rebar. The recovered capped rebar was held as located in the field for the purposes of this survey. Estimated uncertainty of corner location is 5 feet.		
The 1940 plans show a PI locatio the plan distance (curve tangent o alignment previously established Once the PI 113+15.3 was establi POT Station of 104+78.80 "B" for (difference of 1.39 feet). Center re-established PI was used for the	locations of approximately Station 103+00 to Station 126+00 were taken. n at Station 113+51.3 with no curve run. This PI was re-located by measuring of 573.3 feet plus tangent distance of 837.89 feet = 1411.19 feet) from an for the north end of Des No 0600634 and centered in the existing roadway. Ished, its' location was used as the basis for stationing. This resulted in a for the start of this alignment with the Planned Stationing being 104+77.41 "A line location of Bridge Structure at approximate station 126+85 ahead of this of forward tangent location. This created a delta angle 0°23'16" Right vs. a	A" is	during a survey by CB & M Surveys, Inc. for the W	covered at this location. This monument is referenced Vilder Corporation of Delaware. (Copy furnished by CB & M purposes of this survey. Estimated uncertainty of corner	
 Plan delta angle of 0°28' Right. The existing center line is within +/- 1.0 feet of this re-established alignment Estimated uncertainty of alignment location is 1.0 feet left or right along reestablished 1940 survey. Stationing: Stationing was established by using the re-established PI location with stationing of 113+51.3 "B" representing Station 113+51.3 "A" on the 1940 Plans. Estimated uncertainty of stationing on 1940 survey is 1.5 feet. 			 862. Northwest Corner of Section 3, T 6 N, R 7 W An unmarked 5/8 Inch rebar, bent to the north and 1.4 feet below ground level, was found at this location. This monument is referenced as "1/2 inch rebar found" during the section corner perpetuation work for Greene County by Bledsoe, Tapp, & Riggert, Inc. Its position as recovered during the field work for this survey is consistent with the information listed for the "1/2 inch rebar found" during the above mentioned section corner perpetuation work by Bledsoe, Tapp & Riggert, Inc. A 5/8 inch rebar, with unreadable survey cap and 0.3 feet below the roadway surface was found South 13°11'19" East, a distance of 12.77 feet from this corner location. A survey by CB & M Surveys, Inc. for the Wilder Corporation of Delaware. (Copy furnished by CB & M Surveys) indicates a 5/8 inch rebar with cap stamped "James Tibbett LS80910029" was set to mark this location. The rebar with unreadable cap is assumed to be the one set by James Tibbett during his survey. The unmarked 5/8 inch rebar was held as located in the field for the purposes of this survey. Estimated uncertainty of corner location, due to conflicting survey information, is 15 feet. 		
			corner record dated 11/30/2002 by Ben E. Bledsoe field work for this project. A 5/8 inch rebar with ca location. The location of this capped rebar is in ag	a Harrison Monument set at this location, as per a section RLS. No Harrison Monument was recovered during the ap stamped "Bledsoe Tapp 5092004" was recovered at this reement with the reference ties shown on the corner record inch rebar, as located in the field, was held as representing on is 5 feet.	
Right of Way Note: The existing right of way lines, parcel ownership lines, and ownership information shown on this plat are preliminary and subject to change based on verification/validation of title. This information is shown only to help orient the user of this plat as it relates to project centerlines and is not intended to establish existing right of way lines or ownership lines. The source used to plot existing right of way lines and ownership lines shown on this plat is from last deed of record obtained from County Recorder's Office as well as other sources cited on this plat. The designer/consultant responsible for Right of Way Engineering will complete the final determination of this information.			 870. South Quarter Corner of Section 34, T 7 N, R 7 W Section corner records for Greene County indicate a Mag Nail set at this location, as per a section corner record dated 11/30/2002 by Ben E. Bledsoe RLS. No monument was recovered during the field work for this project. Two (2) 5/8 inch rebars with "witness cap" were recovered and used to compute the original corner's position. No monument was set as part of this survey. The recreated coordinate position was used as representing this corner's location. Estimated uncertainty of corner location is 5 feet. 		
Note: "Survey Started" date and "Survey Comp below indicate date of first field work and date of This does not represent a continuous time span of was stopped and re-started as necessary due to	last field work, respectfully. of work for this Project; field work N	ote: All poin the same Poi	t numbers on this page having a corresp int/Monument	onding point number on Page 1 of 2 refer	
SURVEY STARTED	Indiana Department of Transportation		FIELD SURVEYOR ST		
3/27/2013 SURVEY COMPLETED 5/31/2013 ROUTE PLAT SHEETS 2 of 2	Vincennes District Office 3650 South US Highwa	Vincennes District Office 3650 South US Highway No 41 Vincennes, Indiana 47591-9443		THIS SURVEY, TO THE BEST OF MY KNOWL EXECUTED ACCORDING TO THE PROVI 865 I.A.C. 1-12-20 THROUGH 1-12-26 REGARI EXCEPT THAT ANY DATA SHOWN REGARD OR DESCRIPTION OF THE EXISTING PARCE THIS SURVEY.	

NOTE: This figure has not yet been updated to reflect current CAD Standards related to text styles. Users should consult the current INDOT CAD Standards Manual when producing the Location Control Route Survey document.

Points

ORS Network. This point was held fixed and See section under General Notes in

Corners

Other Monumentation

800 5/8 inch rebar with unreadable cap.

A survey by CB & M Surveys, Inc. for the Wilder Corporation of Delaware. (Copy furnished by CB & M Surveys) indicates a 5/8 inch rebar with cap stamped "James Tibbett LS80910029" was set to mark the Northwest corner of Section 3, T 6 N, R 7 W. This rebar with unreadable cap is assumed to be the one set by James Tibbett during his survey. See information for Point Number 862 on this survey. INDOT Type 'B' monument, 0.3 feet below Roadway Surface.

Road plans for Contract R-10278, Project No 725 'B' required a Type 'B' monument at PC Station 20+00.00 on Line "A". No research or field work was conducted to verify this monument's location. The coordinate position of this monument is listed for informational purposes only.

810 INDOT Type 'B' monument, 0.4 feet below Roadway Surface.

Road plans for Contract R-10278, Project No 725 'B' required a Type 'B' monument at POC Station 27+50.00 on Line "A". No research or field work was conducted to verify this monument's location. The coordinate position of this monument is listed for informational purposes only.

INDOT Type 'B' monument, 0.4 feet below Roadway Surface.

Road plans for Contract R-10278, Project No 725 'B' required a Type 'B' monument at PT Station 34+98.61 on Line "A". No research or field work was conducted to verify this monument's location. The coordinate position of this monument is listed for informational purposes only.

854 5/8 Inch rebar with cap stamped "Co Survey Witness", 0.2 feet below ground level.

The section corner perpetuation records for Greene County show this monument as a Section corner tie reference for a Mag nail representing the south quarter corner of Section 34, T 7 N, R 7 W (see information for Point Number 870). The coordinate position of this reference tie monument is listed for informational purposes only.

857. 5/8 Inch rebar with cap stamped "Co Survey Witness", 0.4 feet above ground level.

858

The section corner perpetuation records for Greene County show this monument as a Section corner tie reference for a Mag nail representing the south quarter corner of Section 34, T 7 N, R 7 W (see information for Point Number 870). The coordinate position of this reference tie monument is listed for informational purpose: only.

5/8 inch rebar with cap stamped "James Tibbett LS80910029", 0.1 foot below ground level. Property corner location. A survey by CB & M Surveys, Inc. for the Wilder Corporation of Delaware. (Copy furnished by CB & M Surveys) indicates a 5/8 inch rebar with cap stamped "James Tibbett LS80910029" was set to mark the northeast corner of tract number four (4) on their plat of survey. No research or field work was conducted to verify this monument's location. The coordinate position of this monument is listed for informational purposes only.

◎ Mag Nail, as described on plat ■ INDOT Type 'B' Monument

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Local	Local	SPC	SPC	
Northing	Easting	Northing	Easting	
40098.6400	40974.7678	1364534.9801	2924542.1092	1/2 inch rebar with plastic cap star
40151.2816	41236.4131	1364587.6191	2924803.7415	1/2 inch rebar with plastic cap star
40099.7122	41479.3545	1364536.0522	2925046.6708	1/2 inch rebar with plastic cap star
40117.1423	40405.2582	1364553.4815	2923972.6280	POT 104+78.80 "B" - Mag nail wit
40119.3795	41241.7600	1364555.7186	2924809.0881	PI 113+15.30 "B" - Mag nail with
40116.5759	41926.4497	1364552.9151	2925493.7437	POT 120+00.00 "B" - Mag nail wit
40000.0000	40000.0000	1364436.3450	2923567.3900	1/2 inch rebar with plastic cap star
40066.8340	42580.2370	1364503.1757	2926147.4984	1/2 inch rebar with plastic cap star
40118.0480	39830.4990	1364554.3871	2923397.8974	5/8 inch rebar with unreadable ca
40109.7000	44591.4990	1364546.0395	2928158.6602	INDOT Type 'B' Monument, 0.3 fee
40104.5810	45543.1380	1364540.9208	2929110.2518	Southeast Corner of Section 34, T
40388.3750	45266.6410	1364824.7006	2928833.7685	INDOT Type 'B' Monument, 0.4 fee
41061.8610	45548.0010	1365498.1531	2929115.1145	INDOT Type 'B' Monument, 0.4 fee
40170.5670	42891.2550	1364606.9035	2926458.5009	5/8 inch rebar with cap stamped "
40087.9200	42892.2010	1364524.2606	2926459.4469	5/8 inch rebar with cap stamped "
40105.7260	44940.3500	1364542.0657	2928507.4938	Property Corner, 5/8 inch rebar w
40105.1870	45270.3020	1364541.5268	2928837.4294	Northeast Corner of Section 3, T 6
40130.4830	39827.5850	1364566.8215	2923394.9836	Northwest Corner Section 3, T 6 N
40128.3700	40239.6640	1364564.7086	2923807.0421	Southwest Corner Section 34, T 7
	Northing 40098.6400 40151.2816 40099.7122 40117.1423 40119.3795 40116.5759 40000.0000 40066.8340 40109.7000 40108.0480 40109.7000 40105.7260 40105.1870 40130.4830	NorthingEasting40098.640040974.767840151.281641236.413140099.712241479.354540117.142340405.258240119.379541241.760040116.575941926.449740000.000040000.000040066.834042580.237040118.048039830.499040109.700044591.499040104.581045543.138040388.375045266.641040161.861045548.001040170.567042891.255040087.920042892.201040105.187045270.302040130.483039827.5850	NorthingEastingNorthing40098.640040974.76781364534.980140151.281641236.41311364587.619140099.712241479.35451364536.052240117.142340405.25821364553.481540119.379541241.76001364555.718640116.575941926.44971364552.915140000.000040000.00001364436.345040066.834042580.23701364503.175740118.048039830.49901364554.387140109.700044591.49901364546.039540104.581045266.64101364824.700641061.861045548.00101365498.153140170.567042891.25501364606.903540087.920042892.20101364542.065740105.726044940.35001364541.526840130.483039827.58501364566.8215	NorthingEastingNorthingEasting40098.640040974.76781364534.98012924542.109240151.281641236.41311364587.61912924803.741540099.712241479.35451364536.05222925046.670840117.142340405.25821364553.48152923972.628040119.379541241.76001364555.71862924809.088140116.575941926.44971364552.91512925493.743740000.000040000.00001364436.34502923567.390040066.834042580.23701364503.17572926147.498440118.048039830.49901364540.03952928158.660240104.581045543.13801364540.92082929110.251840388.375045266.64101364824.70062928833.768541061.861045548.00101364549.815312929115.114540170.567042891.25501364606.90352926458.500940087.920042892.20101364542.06572928507.493840105.187045270.30201364541.52682928837.429440130.483039827.58501364566.82152923394.9836

REGISTERED LAND SURVEYOR, FIELD

Easement Note:

Locations of any easements are based on last deed of record available at the Recorder's Office. These deed records were found during initial research, and in no way represent all possible easements that could be recovered by a title search.

FIELD SURVEYOR STATEMENT

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-26 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.

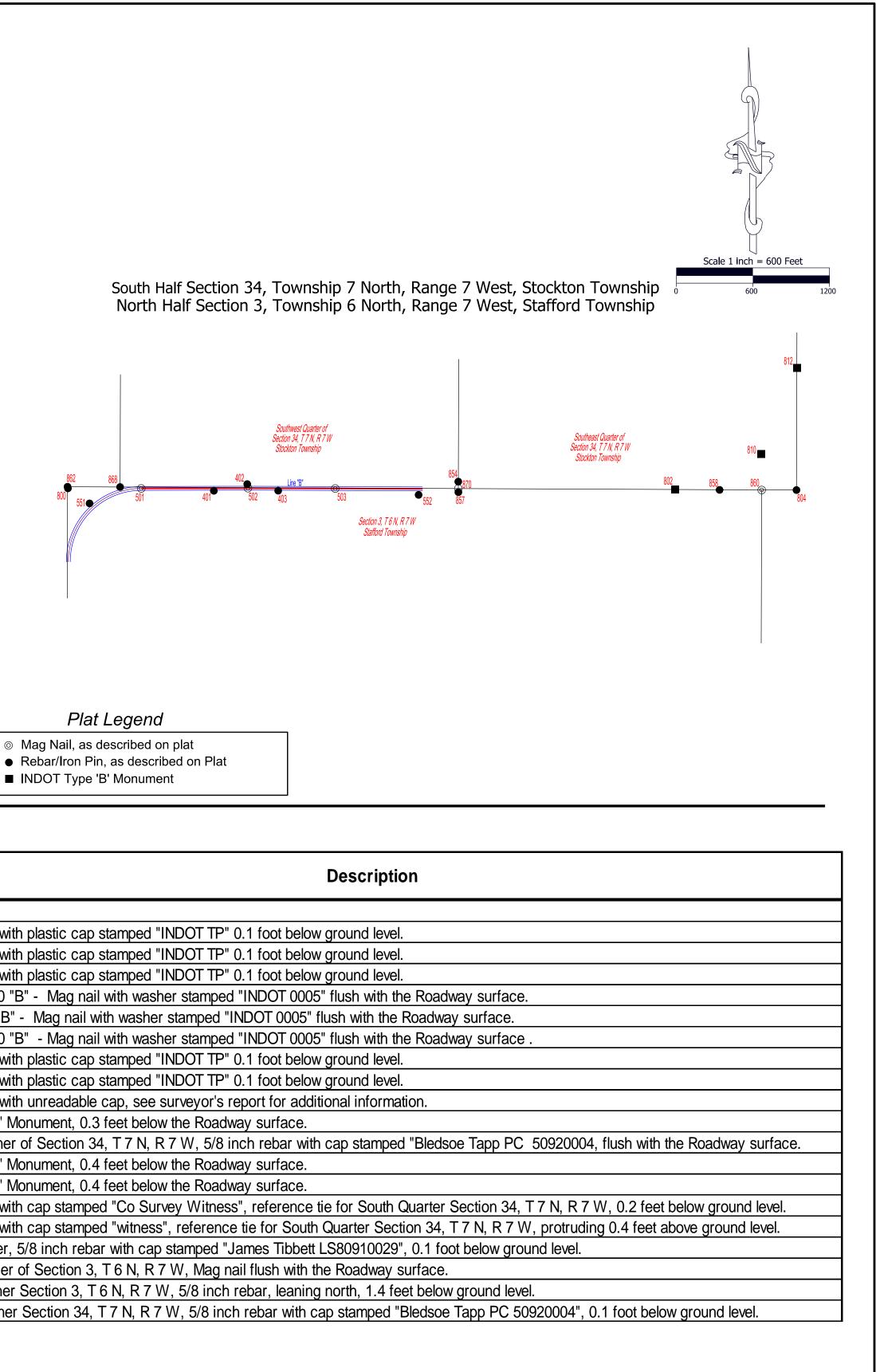
I AFFIRM, UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW. Prepared by:

DE LO

DATE

LOCATION CONTROL ROUTE SURVEY PLAT EXAMPLE (PAGE 2 OF 2)

Figure 26-2D



	HORIZONTAL SCALE	BRIDGE FILE
INDIANA		
EPARTMENT OF TRANSPORTATION	COUNTY	DESIGNATION
	Greene	1296544
	SURVEY BOOK	SHEETS
CATION CONTROL ROUTE SURVEY		of
CATION CONTROL ROUTE SURVEY	CONTRACT	PROJECT