

Small Urban and Rural Transportation Planning  
Program Proposal  
FY 2020

Traffic Counting and Planning Support for:

Carroll County  
Delphi  
Camden  
Flora  
and  
INDOT

Submitted by:

The Area Plan Commission  
of Tippecanoe County

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## Objectives

The Area Plan Commission of Tippecanoe County (APCTC), in its capacity as MPO and RTPO to Carroll County, proposes to continue the partnership with INDOT that began in FY 2007 through two components of the Small Urban and Rural Transportation Planning Assistance Program.

As part of the **Core Planning Activities** the MPO will provide the following.

- Traffic counts in support of the **Rural Traffic Count Program** for Carroll County and the towns of Delphi, Camden and Flora (collectively called Carroll County in this document).
- Traffic counter replacement program to purchase new traffic counters that are in the third year of the scheduled replacement cycle, and replenish counting supplies as needed to sustain the count program. The ongoing counter purchase schedule will replace counters originally purchased in 2013.
- LOS Analysis calculated for each road segment counted in FY 2020.
- Assistance to Carroll County as part of the **Planning Support to Local Governments**. This will include, but not be limited to, truck freight routing analysis, crash analysis and summary, mid-to-long range planning, project development, Red Flag Analysis, Title VI and ADA consultation and assistance, quarterly project tracking and support to its Technical and Administrative Committees. This will be the ninth year assisting Carroll County with transportation planning activities.

As part of the **Planning Support to INDOT** the MPO will provide the following support to Central Office.

- GIS information for traffic count locations and road segments.
- Crash data review, locational accuracy and quality control.

## Core Planning Activities

### 511C.1 Rural Traffic Count Program

#### Justification and Scope

In cooperation with INDOT and Carroll County, the APCTC will continue to implement the Comprehensive Traffic Count Plan. It is anticipated that 65 locations will be counted in FY 2019. Sixty counts originated from the established three-year count cycle and five additional were requested by Carroll County for special studies in FY 2018. Those additional counts for special studies will continue in FY 2020. All traffic counts will follow the *Indiana Department of Transportation Traffic Counting Standards* and the *Activity Guide for Rural Transportation Planning Program*. Counts will be completed before the end of FY 2019 and uploaded to MS2 using INDOT procedures.

This year begins the first year of a three-year recount cycle. All previous count locations and road segments have been georeferenced. Administrative time will be required to coordinate with INDOT District and Traffic Count Coordinator, Carroll County engineer and sheriff, and the Town of Delphi, download counts, process and check quality of the data, update data tables, create maps, and distribute the information to INDOT and Carroll County.

The MPO is in the third year of a three-year traffic counter replacement cycle needed to sustain the count program. Four (4) counters will be purchased this year as partial replacement for the 12 originally purchased in 2013. Traffic counting supplies (tubes, nails, spikes, plugs, splicers and grips) will also be purchased to sustain the count program.

#### Maximum Allowable Costs

Collecting traffic count information outside the APCTC's home county is reimbursed by INDOT at \$155 per traffic count. The cost to conduct the traffic counting activity and administrative processing costs at an estimated 60 Full Time Equivalent (FTE) hours is shown below.

Total Counts	65			
Rate	\$155/count (80%)	Total	INDOT	Local
		\$10,075.00	\$8,060.00	\$2,015.00
Admin. Processing (60 FTE hours, 80%)		Total	INDOT	Local
		\$3,328.14	\$2,662.51	\$665.63

The purchase of traffic counting equipment is eligible for reimbursement under INDOT's Rural Planning Program. The estimated cost of the equipment and administration is shown below.

	Total	INDOT	Local
Four traffic counters purchase & repair	\$5,600.00	\$4,480.00	\$1,120.00
Supplies	\$600.00	\$480.00	\$120.00
<b>Total</b>	<b>\$6,200.00</b>	<b>\$4,960.00</b>	<b>\$1,240.00</b>
Admin. Processing (8 FTE hours, 80%)	Total	INDOT	Local
	\$527.55	\$422.04	\$105.51
<b>Total for Rural Count Program</b>	<b>\$20,130.69</b>	<b>\$16,104.55</b>	<b>\$4,026.14</b>

## 511C.2 LOS Analysis

### Justification and Scope

The APCTC will perform a planning Level of Service (LOS) for each road segment being counted in FY 2018. Staff will determine LOS by applying Florida DOT's 2012 Generalized Level of Service Volume Tables. Specifically: "Table 3. Rural Undeveloped Areas" and "Developed Areas Less than 5,000 Population." The resulting data and its underlying assumptions will be documented, added to the geodatabase and provided to INDOT as required.

### Maximum Allowable Costs

Staff time will be required to inventory the road data including: cross sections (number of lanes, any exclusive turn lanes, one-way roads, roadway medians, or passing lanes) presence of traffic signals, vehicle mix, driver behavior, and land use.

	<u>Total</u>	<u>INDOT</u>	<u>Local</u>
LOS Determinations (9 FTE hours, 80%)	\$481.09	\$384.87	\$96.22

## 511C.3 Planning Support to Local Governments

### Justification and Scope

The APCTC will continue to provide transportation planning assistance to all participating jurisdictions within Carroll County. The formal Technical and Administrative Committee structures, established in FY 2011, will continue to ensure local technical and elected official input into the planning effort. The emphasis will be on coordinating projects and providing information and analysis that support data driven safety and transportation decision making as follows.

- Truck Freight Routing Analysis
- Crash Analysis, when requested by the County (full report is done every three years)
- Assist LPAs with Title VI and ADA compliance issues.
- Revise the Comprehensive Traffic Count Plan as needed to reflect changed, emerging, and new conditions and needs.
- A comprehensive mid-to-long-range plan of needed transportation improvements.
- Assist the LPAs with project development, including Community Crossings grants and Asset Mgmt. Plans
- Red Flag Analysis on potential LPA projects.
- Create agendas, prepare presentations, attend meetings, prepare minutes and support the Technical and Administrative Committees.

At the end of the program year, a report of activities performed, copies of data collected, and any products will be submitted to INDOT.

### Maximum Allowable Costs

Staff time will be required to support the committees' activity, prepare documents for and keep records of committee work, and provide assistance when needed.

	Total	INDOT	Local
Planning Support (245 FTE hours, 80%)	\$14,278.44	\$11,422.75	\$2,855.69

## Planning Support to INDOT

### 511C.4 Planning Support to INDOT Central Office for Carroll County

APCTC proposes to assist INDOT Central Office with GIS information and provide a map of count stations as part of the Rural Traffic Count Program. The MPO anticipates that for the Carroll County count program, up to 25% of the count locations may need to be updated or modified slightly based on prior years counts. The MPO will georeference the new count locations and provide that data to INDOT Central Office. Reimbursed at 100% for this activity is 100%.

	Total	INDOT/Fed	INDOT/SPR
<b>GIS - Carroll Co.</b> (10 hours, 100%)	\$448.22	\$358.58	\$89.64

APCTC proposes to assist INDOT Central Office with the review of ARIES crash data. The MPO has a long history of checking and improving the accuracy of and analyzing crashes. We will download the data, make any necessary corrections to each crash location and update our inventory and analysis of crash information. At the end of the program year, a report of activities performed, copies of data collected, and any products will be submitted to INDOT.

	Total	INDOT/Fed	Local
<b>Crash Data</b> Review and Analysis (15 FTE hours, 80%)	\$785.20	\$628.16	\$157.04

	Total	INDOT/Fed	Local	INDOT/SPR
<b>Total Support to INDOT Central Office</b>	<b>\$1,233.42</b>	<b>\$986.73</b>	<b>\$157.04</b>	<b>\$89.64</b>

### 511C.5 Planning Support to INDOT District Office

When Carroll County or it's jurisdictions have projects that are part of the LPA process, APCTC assists the INDOT District by helping support the LPA's quarterly project tracking. This 8 FTE hours of work is reimbursable at 80%.

	Total	INDOT/Fed	Local	INDOT/SPR
<b>Support to INDOT District Office</b>	<b>\$395.66</b>	<b>\$316.53</b>	<b>\$79.13</b>	<b>\$0</b>

## Conformance to Program Requirements

- The APCTC’s Cost Allocation Plan (CAP) is in the FY 2018-2019 Unified Planning Work Program.
- The APCTC has an existing Memorandum of Understanding with the appropriate jurisdictions to conduct the transportation planning program.
- Quarterly progress reports and billings will be submitted to INDOT as part of the MPO’s UPWP periodic PL billing. All data generated by these activities will be shared with INDOT and the respective jurisdictions.

## Financial Summary

		Total	INDOT/Fed	Local	INDOT/SPR
<b>Core Planning Activities</b>					
511C.1	Rural Traffic Count Program:				
	Counts	\$10,075.00	\$8,060.00	\$2,015.00	
	Administrative Processing	3,328.14	2,662.51	\$665.63	
	Purchase Counters	\$6,200.00	\$4,960.00	\$1,240.00	
	Administrative Processing	\$527.55	\$422.04	\$105.51	
	<b>Subtotal</b>	<b>\$20,130.69</b>	<b>\$16,104.55</b>	<b>\$4,026.14</b>	
511C.2	Level of Service	\$481.09	\$384.87	\$96.22	
511C.3	Planning Support to Local Government	\$14,278.44	\$11,422.75	\$2,855.69	
	<b>Core Subtotal</b>	<b>\$34,890.22</b>	<b>\$27,912.17</b>	<b>\$6,978.05</b>	
<b>Planning Support to INDOT</b>					
511C.4	Plng Support to INDOT CO- Carroll Co.:				
	GIS Processing	\$448.22	\$358.58		\$89.64
	Crash Data Review and Analysis	\$785.20	\$628.16	\$157.04	
	<b>Subtotal</b>	<b>\$1,233.42</b>	<b>\$986.74</b>	<b>\$157.04</b>	<b>\$89.64</b>
511C.5	Planning Support to INDOT District Office				
	Quarterly Project Tracking	395.66	\$316.53	\$79.13	\$0.00
	<b>INDOT Support Subtotal</b>	<b>\$1,629.08</b>	<b>\$1,303.27</b>	<b>\$236.17</b>	<b>\$89.64</b>
	<b>Contract Total</b>	<b>\$36,519.30</b>	<b>\$29,215.44</b>	<b>\$7,214.22</b>	<b>\$89.64</b>