

Executive Board

President

Jennifer Sharkey

County Engineer
Steuben Co.
260-668-1000 x
3600

Vice President

David Holmes

Supervisor
Lawrence Co.
812-275-2644

Treasurer

Stewart Kline

Director
Tippecanoe Co.
765-423-9210

Executive Secretary

Jacque Clements

AIC
317-829-3655

Past President

Kevin Myers

Superintendent
Clinton Co.
765-659-6379



"Where Better Roads Begin"

this issue

Who We Are P1

Membership P2

Project Spotlight P3

Upcoming Events P4

Who We Are

The Indiana Association of Highway Engineers and Supervisors (IACHES) is an association that supports local county highway departments and their associates with maintaining, improving, and enhancing local road and bridge facilities.

Purpose

Our purpose is quite simple: Promote the efficient construction, maintenance and administration of public projects at the County level through cooperation and communication between County Highway Departments, Indiana Department of Transportation (INDOT), Federal Highway Administration (FHWA), Contractors, Consultants and Vendors.

Mission

We exist as a unified voice of and for our members. This allows our voice to be effectively heard within the state legislature. We exist to serve our association for the advancement of our profession. We exist to help others within our association and the public, with our combined knowledge, actions and experience. This allows us to maximize our efforts in serving the public through the execution of our duties. **IACHES** is dedicated to effectively serving the public through its members.

IACHES DISTRICTS & MEMBERSHIP MAP

NORTHWEST DISTRICT

Director: Mike Kyburz, White Co.
219-984-5851

Counties: Benton, Carroll, Cass, Fulton, Howard, Jasper, Lake, LaPorte, Marshall, Miami, Newton, Porter, Pulaski, St. Joseph, Starke, White

WEST CENTRAL DISTRICT

Director: Nick Parr, Boone Co.
765-482-4550

Counties: Boone, Clay, Clinton, Fountain, Hendricks, Montgomery, Morgan, Owen, Parke, Putnam, Tippecanoe, Vermillion, Vigo, Warren

SOUTHWEST DISTRICT

Director: Brent Wendholt, Dubois Co.
812-482-5505

Counties: Crawford, Daviess, Dubois, Gibson, Greene, Knox, Lawrence, Martin, Monroe, Orange, Perry, Pike, Posey, Spencer, Sullivan, Vanderburgh, Warrick

NORTHEAST DISTRICT

Director: Troy Hostetler, Huntington Co.
260-358-4881

Counties: Adams, Allen, Blackford, DeKalb, Elkhart, Grant, Huntington, Jay, Kosciusko, LaGrange, Noble, Steuben, Wabash, Wells, Whitley

EAST CENTRAL DISTRICT

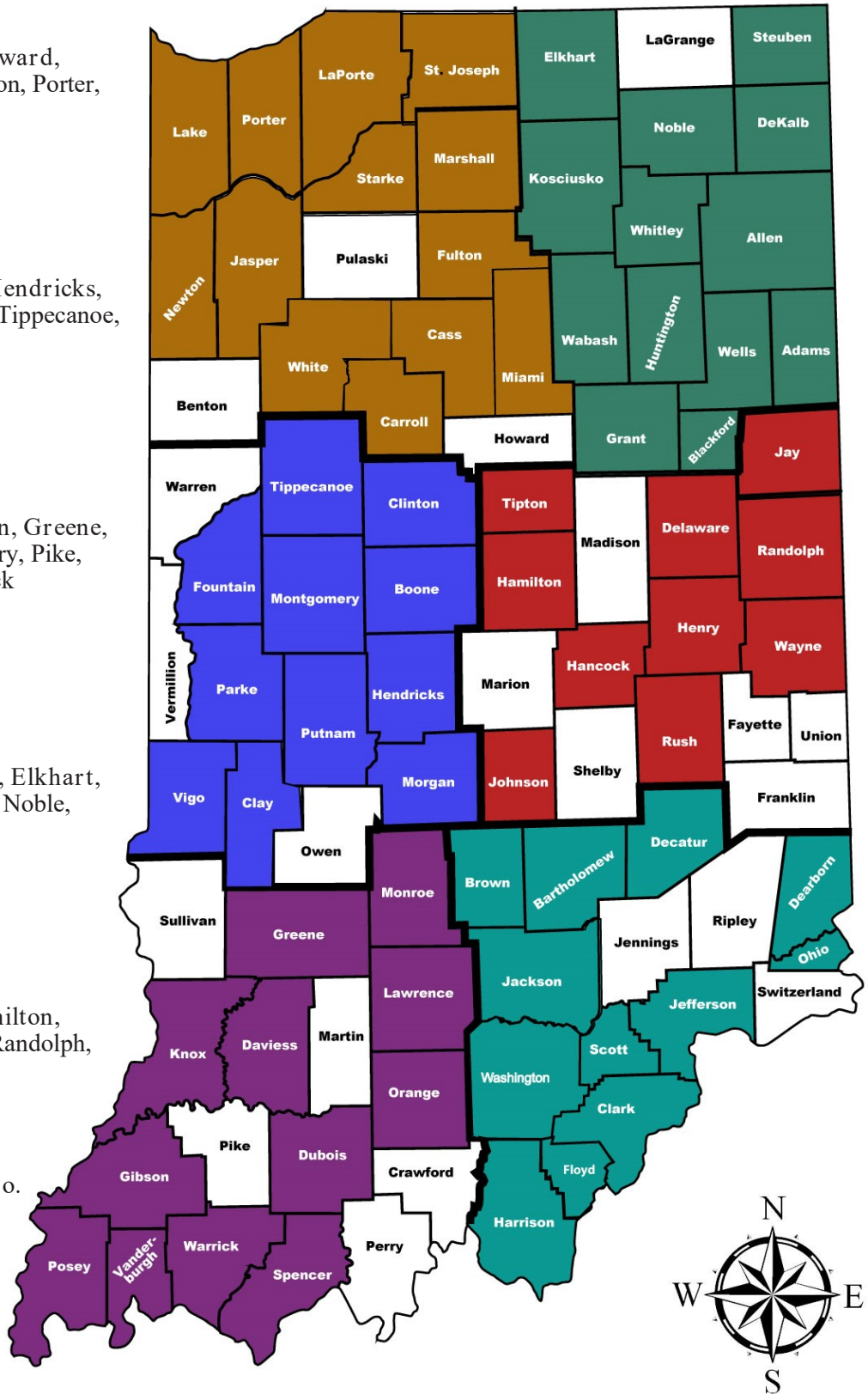
Director: Brad Davis, Hamilton Co.
317-773-7770

Counties: Delaware, Fayette, Franklin, Hamilton, Hancock, Henry, Johnson, Madison, Marion, Randolph, Rush, Shelby, Tipton, Union, Wayne

SOUTHEAST DISTRICT

Director: Danny Hollander, Bartholomew Co.
812-379-1660

Counties: Bartholomew, Brown, Clark, Dearborn, Decatur, Floyd, Harrison, Jackson, Jefferson, Jennings, Ohio, Ripley, Scott, Switzerland, Washington



MEMBER SPOTLIGHT - DUBOIS COUNTY - BRIDGE CREW

Contributed by Brent Wendholt, PE—Dubois County Engineer



The Dubois County Highway Department takes pride in the fact it is able to design, build and maintain a majority of its bridge infrastructure with it's own forces.

Dubois County has a Cumulative Bridge Tax that brings in approximately \$860,000 per year and spends approximately \$820,000 per year. This includes expenses for the construction of new bridges, installation/ replacement of new culverts, maintenance of all existing bridges and culverts, and the Countywide Bridge Inspection.

The County has a 4-man bridge crew; a foreman / operator and 3 truck drivers/ carpenters. They are equipped with a wheeled excavator, two service trucks, one tandem axle dump truck, a form trailer with various construction forms, motorized bridge deck screed, a sand blaster, power spray painter and other various tools to aid with bridge construction. The County Bridge Crew can construct 2 to 3 new bridges a year and replace 3 to 4 culverts with Cast-in-place concrete box culverts, along with any other maintenance work that needs to be done on existing bridge infrastructure.

Beginning in the early 1990's, the County Engineer began designing bridges that were constructed utilizing the County Bridge Crew. The Engineer made the designs very similar, allowing for the bridge crew to utilize the same forms and techniques from bridge to bridge. The Bridges are all similar in design basis and function, but vary in length, wall height, and foundation. Over the years, there have been a few modifications / upgrades to the design, but the basis remains the same. Bridges are designed as steel beam structures with concrete walls and concrete foundations. The current Engineer is confident in designing bridges up to 80 feet spans which covers 75% of the County's current infrastructure. Outside consulting engineers are utilized to design longer bridges which are then bid out to private contractors.

The Engineer completes a topographic survey of the area where the bridge is being replaced, hires a geotechnical engineer to do a subsurface investigation and give a foundation recommendation (Spread Footer or Driven Piles), performs hydraulic calculations to verify conveyance of water beneath the bridge, sizes the beams that will be carrying the traffic across the bridge, then creates the foundation and wall design to support the crossing. A set of plans are given to the Bridge Foreman who is equipped with the knowledge and experience to build the bridge.

Most of the work can be done with county-owned equipment, but if something bigger or specialized is needed, such as a crane, long reach excavator, pile drivers or concrete pumper truck, the County has several vendors/ contractors that can supply the required equipment or work. The County was able to construct a 50' single span, 17' tall, steel beam structure for approximately \$190,000.

In 2011, the County Engineer came up with a design for a Cast-In-Place Concrete Box. The boxes are 12' wide and vary in height, from 3' to 9', and designed to have traffic drive directly on top of or handle up to 2' of cover, depending on the topography of the land. They were designed to replace twin culverts, large metal culverts or small bridge structures. The Bridge Crew has had a lot of experience with installing these, and if the weather cooperates and no utility issues are encountered, can have them up in 3 weeks. The structures are standard in design, so the Bridge Crew is familiar with constructing them. The structure can be installed for approximately \$40,000 .



UPCOMING EVENTS

IACHES Summer Conference—June 6, 2019
Renaissance Indianapolis North

AIC Annual Conference—September 30, 2019
French Lick Resort

County Bridge Conference—October 2019
Purdue University, West Lafayette

IACC Annual Conference—December 3-5, 2019
Sheraton Indianapolis Hotel at Keystone Crossing

LTAP Training & Events (www.purdue.edu/intap)

Core Course #1—Asset Management—June 2019

Core Course #5— Roadway Safety—July 2019

Core Course #4—Public Purchasing—August 2019

Core Course #2—Liability & Risk—December 2019



101 W. Ohio Street, Suite 1575
Indianapolis, Indiana 46204
317-829-3655
www.iaches.org