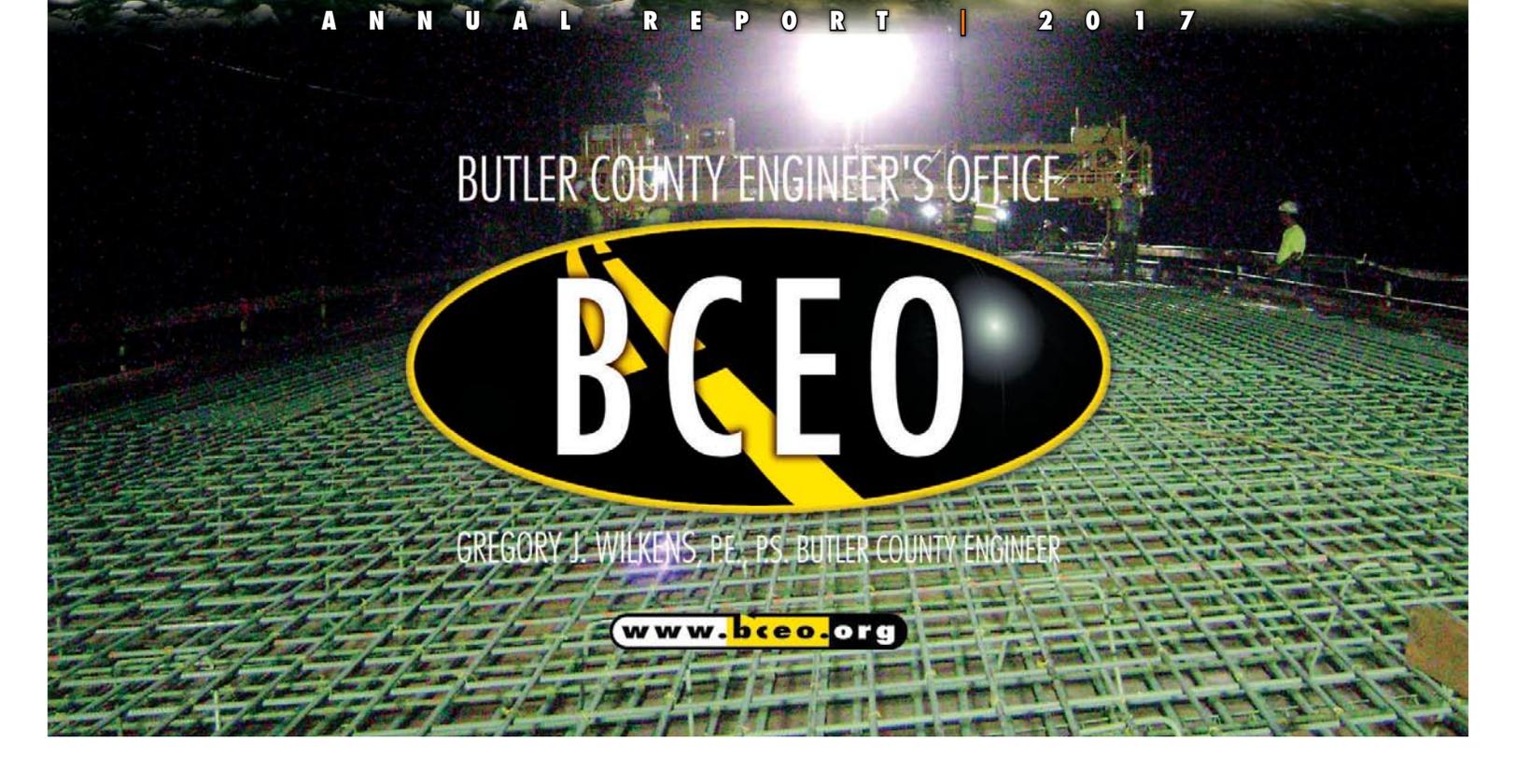




A N N U A L R E P O R T | 2 0 1 7



BUTLER COUNTY ENGINEER'S OFFICE

BCEO

GREGORY J. WILKENS, PE, PS, BUTLER COUNTY ENGINEER

www.bceo.org

BUTLER COUNTY ENGINEER'S OFFICE



GREGORY J. WILKENS, P.E., P.S. BUTLER COUNTY ENGINEER

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CONTACT US

The Butler County Engineer's Office has always worked hard to provide you the citizens, our employers, with current and relevant information about road and bridge construction, safety issues, and how your tax dollars are being applied. Your comments, concerns, and feedback are important.

In the interest of service and safety, we have tried to make it as easy as possible to reach us and access information. We strongly recommend our web site at **www.bceo.org** as the best source for up-to-date and pertinent information. There you can keep track of project and construction news, road closings, public meeting notices, and much more. Departmental information and employee email addresses are also available on our web site.

ADDRESS: 1921 Fairgrove Ave., Hamilton, Ohio 45011-1965
VOICE: 513.867.5744 (*Hamilton dialing area*)
513.424.9144 (*Middletown dialing area*)
FAX: 513.867.5849
INTERNET: www.bceo.org
EMAIL: info@bceo.org

www.bceo.org



SAFETY,
INTEGRITY,
SOUND
ENGINEERING





April 30, 2018

To the Citizens and Board of County Commissioners of Butler County, Ohio:

I respectfully present the Butler County Engineer's 2017 Annual Report for your review. Each project listed in this Report has the direct involvement of the Butler County Engineer's Office (BCEO), including planning and engineering, funding, administration of the contract, and/or construction and inspection.

This summary of 2017 activity provides only a partial overview of who we are and what we do. It details over \$16 million in capital improvements and various forms of maintenance last year. But what isn't fully detailed are the hours of behind the scenes planning and extended time frames it can take to launch major projects into construction. We have a team of hard working and knowledgeable professionals at the Engineer's Office who make the projects happen. These outstanding employees design, construct, and maintain our roads so that they are safe and efficient. Only with a team of professionals who know, understand, and have experience in the business can this be accomplished.

The County Engineer is an elected position in the State of Ohio, so my name tends to be the one that you hear and read about in the local media. But it's the unsung heroes of the Butler County Engineer's Office, many whose names you may never know, that put it all together to develop a final product that will meet the needs of Butler County's motorists for years to come. Each staff member has his or her own area of expertise, and together we are able to visualize the big picture to meet the growing demands of traffic flow, economic development, and most of all, safety. It's through our team's efforts that we've enjoyed the many successes now benefitting our citizens. Perseverance, knowledge, and experience are critical to successfully improving our transportation grid and I'm fortunate to head such a group of highly talented individuals.

Thanks for your continued trust and support as your County Engineer. Please feel free to contact us at the BCEO with your concerns and suggestions for how we can improve our service. We look forward to hearing your thoughts.

Very truly yours,

A handwritten signature in green ink that reads "Gregory J. Wilkens".

Gregory J. Wilkens, P.E., P.S.
Butler County Engineer

GENERAL DATA

Population (2016 est.)	377,537
State Rank	7TH
Area	469 square miles
State Rank	35TH
Courthouse elevation	601 feet
Highest elevation	1,052 ft. (near Todd Road, Oxford Twp.)
Lowest elevation	520 ft. (Great Miami River, Fairfield)

2016 POPULATION ESTIMATES

(UNINCORPORATED AREAS)

Fairfield Twp.	22,386	Oxford Twp.	2,169
Hanover Twp.	8,396	Reily Twp.	2,718
Lemon Twp.	2,357	Ross Twp.	8,166
Liberty Twp.	37,981	St. Clair Twp.	4,559
Madison Twp.	8,715	Wayne Twp.	4,021
Milford Twp.	3,670	West Chester Twp.	61,001
Morgan Twp.	5,698	TOTAL	171,837

(INCORPORATED AREAS)

College Corner	*196	New Miami	2,321
Fairfield	42,617	Oxford	22,341
Hamilton	62,127	Seven Mile	772
Jacksonburg	63	Sharonville	*2,381
Middletown	*46,064	Trenton	12,762
Millville	725	TOTAL	205,700
Monroe	*13,331		

* PORTIONS OF THESE COMMUNITIES LIE WITHIN NEIGHBORING COUNTIES; FIGURES REPRESENT THEIR BUTLER COUNTY POPULATIONS ONLY.

GIS INTERACTIVE WEB MAP IMPROVED AND UPDATED

The Butler County Engineer's Office first brought online its GIS Interactive Tax Map in 2011 and already, since that time, there have been significant technological changes within the BCEO and to the way consumers access and utilize information. Internet browsers and the underlying platforms that power them have changed and the proliferation of mobile devices has altered our expectations of how we connect with the data we need.

In keeping with this trend, the BCEO's Tax Map Department joined forces with the IT Department to reprogram and refurbish the BCEO's entire Tax Map Web Map. This enables the map to be viewed in any browser and on any device, including tablets and mobile phones.

It doesn't take a techie to use and enjoy the new Tax Map Interactive Web Map, which empowers anyone to access survey information 24/7 from any location that has Internet access on any device. A new feature on the front page of the BCEO Tax Map web site is the Records link in the left hand panel of the page. This provides immediate access to historical survey documents as well as Tax Map pages, plats of surveys, and unrecorded survey information.

The interactive map can be easily accessed from Apple, Windows, and Android tablets and phones as well as from desktop computers and laptops. The map displays a representation of Butler County parcels, aerial views, access to the plats of survey with an option to download the plat, and other base maps. There are also links to the Butler County Auditor's web site for real estate data and to the Butler County Recorder's web site to view record plats with the option to download the plat for each parcel and/or subdivision.

Interested users can access the interactive map via a link on the Butler County Engineer's Office web site at www.bceo.org. The link is located in two areas:

- In the Butler County > Maps section;
- In the About Us > Departments > Design &

Engineering section under GIS / Tax Map Records / IT.

If users would prefer to access the site directly, the specific web address is <http://gis.bceo.org/>.



BUTLER COUNTY CERTIFIED ROAD MILEAGE

(EFFECTIVE DECEMBER 31, 2017)

County Roads	269.60 miles
Township Roads	786.70 miles
U.S. and State Roads	236.20 miles

CERTIFIED ROAD MILEAGE BY TOWNSHIP (EFFECTIVE DECEMBER 31, 2017)

TOWNSHIP	COUNTY ROADS	TOWNSHIP ROADS
Fairfield	15.20	80.10
Hanover	25.60	36.00
Lemon	0	11.20
Liberty	28.30	148.10
Madison	24.10	52.20
Milford	20.10	33.40
Morgan	26.80	31.00
Oxford	17.10	27.00
Reily	30.60	34.10
Ross	14.10	47.00
St. Clair	23.50	33.30
Wayne	12.10	30.10
West Chester	32.10	223.20
TOTAL	269.60	786.70

PROJECT DEVELOPMENT

How a Project is Developed and Constructed

All potential projects are identified and developed by BCEO engineers, who also determine a funding source for each project and place it on a time line. Ongoing three- and five-year plans are maintained and routinely updated. Most large scale projects have already been identified in the Butler County Thoroughfare Plan developed by the Engineer's Office, which serves as an ongoing comprehensive 20-year countywide transportation planning guide. The Plan is modified every four to five years based on development and growth trends and subsequent changing traffic demands.

Following the planning phase, projects move into the engineering design phase. The BCEO Design Department is responsible for engineering and designing the projects on our CAD System (Computer Aided Design) or through local and regional consultants. Once a project is designed the BCEO's Construction Department manages the actual construction of all contract projects. This involves several significant steps, including the purchase of right-of-way, coordinating utility relocations, and working directly with contractors to make sure the job is completed in a timely manner and according to design specifications.

By law all major jobs must be advertised for bid and awarded to the lowest qualified bidding contractor; however, crews from the BCEO's Operations Department handle construction of all Force Account (non-contract) projects. These may include small bridge and culvert replacements, bridge deck repairs and replacements, and intersection modifications.



FUNDING SOURCES

Adequate funding is the key to a successful capital improvements plan. The BCEO obtains revenue from three different levels --- Federal, State, and Local. There are two primary sources of local money --- gasoline taxes and license plate fees. (For an explanation of how these monies are distributed by the State, please visit the BCEO web site.) This money is designated specifically for the County Engineer's Office for road and bridge projects and is completely separate from the County's general fund. Annual income generated by these local funding sources averages approximately \$12 million. This revenue is important as local match money for State and Federally funded projects. On the average, one local dollar can leverage three to four dollars from sources outside Butler County.

Federal Funding

The BCEO works to leverage outside funding whenever possible for eligible projects. As an example, there are several categories of Federal aid, most of which are designated for certain types of projects on specific roads and bridges. In order to utilize these funds very strict qualifications must be met, including the completion of environmental studies and providing the local funding match. An average leveraged ratio of 80 percent federal to 20 percent local is maintained by federal aid experts at the BCEO.

The Community Development Block Grant Program is designed to provide money for small city, village, and township infrastructure programs that normally would not qualify for other outside funding sources. This program is also designed to assist with improvements to low-income areas.

State Funding

The primary source of State funding utilized by the BCEO are Ohio Public Works Commission (OPWC) funds, renewed by Ohio voters as State Issue 1 in May 2014.

OPWC money is designated for the repair and replacement of existing infrastructure. The Ohio Public Works Commission administers three funding categories – Local Transportation Improvement Program (LTIP), State Capital Improvement Program (SCIP), and Small Government Capital Improvement Program. Local match money is technically not required but does enhance the chances for receiving OPWC grants by enhancing project viability ratings. The OPWC has divided the State into 19 separate funding districts, and communities and qualifying agencies within each district must vie for their share of the funding which is allotted to their district. Butler County lies within District 10, which also includes the Counties of Warren, Clermont, and Clinton and their communities. The Miami University Center for Public Management and Regional Affairs serves as the manager and liaison for all OPWC funding in District 10.



Local Funding

The two primary sources of local funding are gasoline taxes and license plate fees. Many road and bridge projects are funded one-hundred percent with local money and are let by contract or are performed by crews from the Engineer's Office. Non-contract projects performed by BCEO crews are known as Force Account projects and can consist of everything from culvert and bridge replacements and deck repairs to general and seasonal maintenance. The Ohio Revised Code caps Force Account projects at \$30,000 per mile for paving or maintenance and \$100,000 per structure (bridge or culvert). (Materials for Force Account projects are bid through separate contracts.) If the cost estimate for a project is over these amounts, the project must by law be competitively bid and let as a contract to the lowest qualified bidder.

A relatively new concept in locally funded road construction is the Transportation Improvement District (TID), which was enacted through state legislation passed in 1993. The TID is comprised of a panel of local governments charged with funding several projects in the TID-designated area, which covers most of the southeast quadrant of the County. Innovative financing is the key to speeding up construction of much-needed projects for which traditional funding methods have been difficult since most local, state, and federal budgets are already stretched. The County Engineer serves on the TID Board of Directors.

2017 REVIEW

Projects and Activity

The Butler County Engineer's Office employed a total of 73 full time employees in 2017, four permanent part-time employees, and 22 part-time temporary (seasonal and co-op) employees. Our staff was involved with the completion of capital improvement projects, upgrades, and traffic signal maintenance totaling \$16,680,665, including:

- 5 bridge projects
- 14 culvert projects
- 3 roadway improvement projects
- 1 intersection projects
- 65.50 miles of resurfacing

The above list does not include routine activities such as general design and engineering, commercial and residential development services, tax mapping services, and day-to-day roadway maintenance such as signing, mowing, drainage, and snow and ice control. As you can see, the BCEO is a multi-faceted, full-service agency covering all facets of road and highway transportation in Butler County.

For a detailed review of 2017 activity, please read on.

OLD COCHRAN ROAD BRIDGE



NEW COCHRAN ROAD BRIDGE #01.051



2017 PROJECTS

This section includes a comprehensive listing of all projects that were completed during the 2017 construction year.

Bridges

The Butler County Engineer's Office performs an annual inspection of all bridges on County and Township roads. Some bridges receive inspection two or more times per year due to their worsened condition. The BCEO had inspection and maintenance responsibility for 404 bridges (structures with a clear span of ten feet or greater) at the end of 2017.

BRIDGE SUMMARY 2017

TOTAL: 5
TOTAL COST: \$2,171,644

Federal Funds

Contract 2016-04 – One bridge replacement
Cochran Road Bridge #01.051
TOTAL CONSTRUCTION COST: \$1,413,880

Local BCEO Funds by Contract

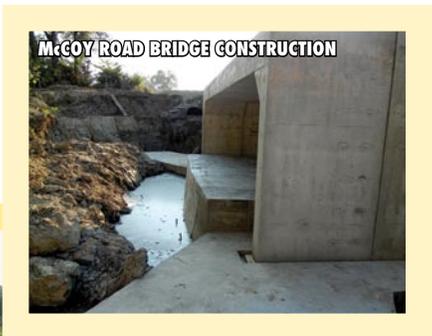
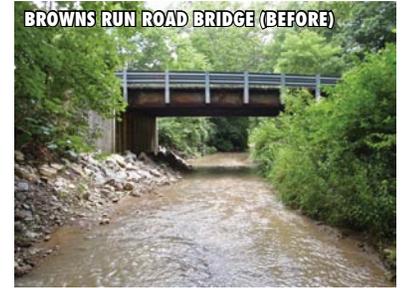
Contract 2017-17 – Two bridge rehabilitations
Hamilton Eaton Road Bridge #07.959
Oxford State Road Bridge #03.653
TOTAL CONSTRUCTION COST: \$285,670

Contract 2017-16M – One bridge structure, setting, paving, striping
McCoy Road Bridge #00.569
COST: \$134,424

Contract 2016-26 – One bridge replacement
Browns Run Road Bridge #02.842
TOTAL CONSTRUCTION COST: \$337,670



BROWNS RUN ROAD BRIDGE REPLACED
A bridge on Browns Run Road in northern Madison Township was replaced last year. An old steel beam bridge with metal deck built in 1978 was replaced with a new, safer pre-stressed concrete box beam structure. The bridge spans Browns Run.



COCHRAN ROAD BRIDGE REPLACED
(photo montage opposite page) The Cochran Road bridge over Indian Creek was replaced in 2017. An old steel beam bridge with concrete deck built in 1962 was replaced with a new three-span cast-in-place concrete slab structure. Funding for the project consisted of Federal grant money and local BCEO matching funds.

Culverts

The BCEO is responsible for the annual inspection of all culverts located on County and Township roads that number totaled 1,025 at the end of 2017. A culvert is a conduit running underneath a road for the purpose of transferring storm water runoff from one side of the road to another. Culverts are technically classified as structures with a clear span of less than ten feet and can be made of different types of material. Culvert replacements are, like bridges, determined by the age and condition of the structure and are often planned in conjunction with future resurfacing projects.

BUTLER COUNTY ENGINEER'S OFFICE

CULVERT SUMMARY 2017

TOTAL: 14

TOTAL COST: \$395,602



GREGORY J. WILKENS, P.E., P.S. BUTLER COUNTY ENGINEER

Local BCEO Funds by Force Account

Sixteen county culvert replacements / repairs

- Layhigh Road Culvert #05.127
- Riggs Road Culvert #00.120
- Riggs Road Culvert #00.452
- Riggs Road Culvert #00.852
- Riggs Road Culvert #00.909
- Stahlheber Road Culvert #05.712
- Stahlheber Road Culvert #06.149
- Yankee Road Culvert #01.463
- TOTAL COST:** \$300,274

Two culvert replacements

- Hazel Drive culvert
- Pamajera Drive culvert

TOTAL COST: \$9,085

(Labor by BCEO. Materials paid for by Oxford Twp = \$2,660, included in sum above.)





Two culvert replacements

Chablis Drive Culvert #00.617

LeSourdsville West Chester Road Culvert #05.799

TOTAL COST: \$58,319

(Labor by BCEO. Materials paid for by Liberty Twp = \$29,053, included in sum above.)

Two culvert replacements

Hankins Road Culvert #00.077

Hankins Road Culvert #00.187

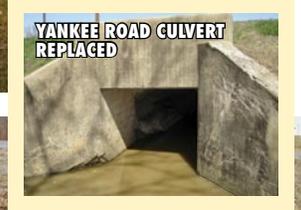
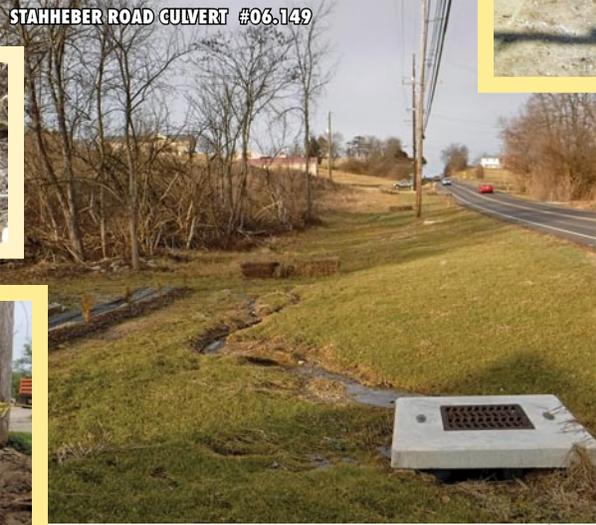
TOTAL COST: \$27,924

(Labor by BCEO. Materials paid for by Lemon Twp \$13,456, included in sum above.)

STALHHEBER ROAD CULVERT #05.712



STALHHEBER ROAD CULVERT #06.149



YANKEE ROAD CULVERT #01.463



Roadway Improvements

ROADWAY SUMMARY 2017

TOTAL: 3

TOTAL COST: \$5,051,482



State OPWC Funds with Local Match Money

Contract 2017-15 – Roadway improvement (pavement reclamation)

Hankins Road – LeSourdsville West Chester Road to Yankee Road

TOTAL CONSTRUCTION COST: \$821,572

(Additional funding: BCEO, Lemon Twp, Liberty Twp, City of Monroe)

Local Funds by Contract

Contract 2017-10 – Roadway improvement (lane addition)

Cincinnati Dayton Road – Dimmick Road to West Chester Road

TOTAL CONSTRUCTION COST: \$279,052

(Funding: West Chester Twp TIF)

Contract 2016-12 – New roadway

Civic Centre Boulevard Extension and tie-in with Allen Road at Windisch Road

TOTAL CONSTRUCTION COST: \$3,950,858

(Funding: West Chester Twp TIF)

SALZMAN ROAD EXTENSION

Butler County TID Project Improves Traffic Flow, Safety

A dead end road that served an industrial park became a major through route in 2017, relieving nearby roads of heavy truck traffic. Salzman Road was extended from its original terminus northward to Todhunter Road where it was tied in at the Yankee Road west intersection. Yankee doglegs east on Todhunter and then south to Ohio 63, crossing a railroad in the process. This forced large semi-trucks to negotiate two sharp 90-degree turns. Connecting and aligning Salzman Road with the north section of Yankee Road provides motorists with a straight route between Todhunter and Ohio 63, creating easier access to the commercial and industrial portions of Monroe and Middletown, lending a positive impact on the local economy. It also pulls heavy truck traffic off of nearby Yankee Road where it passes the Monroe school campus.

Project Development and Construction

The Salzman Road Extension was a project of the Butler County Transportation Improvement District (BCTID), which coordinated design and secured its funding. David Spinney, BCTID Executive Director, was pleased with the high level of local, regional, and state support. "There was no opposition to this project from public or private entities," he said. "We're grateful to ODOT's Division of Jobs and Commerce, as well as OKI and our local communities for their support and financial contributions." Monroe City Manager William Brock was very pleased with the TID's work to bring the Salzman Road Extension to the point of construction. "The project represents an important piece of the overall infrastructure plan of the City with the major goal of separating industrial and school traffic," he said. "The effort and cooperation by the TID, the City of Middletown, and the land owners working toward this project with us shows how we all can work together to benefit the area as a whole. We are excited that this can occur by the end of the year and that we can springboard off of this project to open up opportunities for economic growth in the area."

Middletown Public Works Director Scott Tadych added "The City of Middletown is excited to see this project coming to fruition. This is a critical piece of infrastructure to the South Middletown area that will benefit existing and future commercial and industrial development by providing direct access to State Route 63. The City of Middletown appreciates the effort and cooperation by the TID, City of Monroe, and the Butler County Engineer's Office along with the financial support of OKI and ODOT Jobs and Commerce to make this mutually beneficial project happen."

Spinney noted that the Salzman Road Extension has been identified as a needed project in the County Engineer's long range Thoroughfare Plan since 1994. It is also included in Middletown and Monroe's comprehensive plans.

The Butler County Engineer's Office (BCEO) managed the project's construction. Funding consisted of Federal money from the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) and State money from the Ohio Department of Transportation (ODOT). The cities of Middletown and Monroe provided local matching funds to the Federal portion.



Intersection Improvements

INTERSECTION SUMMARY 2017

TOTAL: 1

TOTAL COST: \$32,377

Local BCEO Funds by Contract

Contract 2017-20 (included in paving contract) – Add WB right turn lane to NB Tylersville Road at Ohio 747

TOTAL CONSTRUCTION COST: \$32,377

TYLERSVILLE ROAD AT OHIO SR 747



MAJOR UPGRADES TO YANKEE ROAD

A significant roadway improvement to Yankee Road got under way last summer and will be fully completed in 2018. The road is being widened to add capacity and smooth out traffic flow, thereby enhancing motorist safety. “This project will be an asset to the community, providing easier access from the northern part of Liberty Township to Ohio 129,” said Butler County Engineer Greg Wilkens. “Widening Yankee in conjunction with a new roundabout at Princeton Road fits in with our overall plan to make commuting in this growing area much safer.” Specifically, the project involves widening Yankee Road between Dutchland Parkway and Princeton Road from two to three lanes – one lane in each direction with a dedicated center left turn lane; a modern roundabout at Yankee and Princeton Road; one bridge replacement; a bridge widening; and, adjustments to the roadway’s vertical profile. Additionally, sidewalk will be added between Dutchland and Wyandot Lane and signals will be installed at Dutchland and Yankee. Funding consists of Federal and State grant money plus local Butler County funds. The project is being built in multiple phases with various closures. Favorable weather enabled crews to complete the first four construction phases with only the last phase remaining for 2018. The road was opened thru and commuter traffic for the winter and re-closed in the spring to complete the final phase.



Paving

The Butler County Engineer's Office is responsible for 269 miles (centerline miles) of roadway and has a 12-15 year paving program in place. This system enables roads to be resurfaced on a regular basis and maintained routinely in a more cost-effective manner. Many Township roads that are substandard in lane width and those County roads that meet minimum standards only, where feasible, are also being widened to bring them up to modern safety standards.

There were 65 miles of county and township roads resurfaced in 2017. This also includes berming of all major roads paved.

PAVING SUMMARY 2017

TOTAL MILES: 65.5

TOTAL COST: \$6,477,770

Federal Community Development Block Grant Funds

Contract 2017-22A (CDBG portion) – Resurfacing of various Hanover Township streets (black mat seal)

TOTAL MILES: 1.9

TOTAL COST: \$198,522

(Additional funding: Hanover Twp)

Local Funds by Contract

Contract 2017-20 – Paving of various County and township roads (asphalt)

TOTAL MILES: 38

TOTAL COST: \$4,782,130

Funded by BCEO:

Barret Road – Station Road to Cox Road

Hamilton Mason Road – Bypass 4 to Ohio 747

Layhigh Road – Ohio 126 to Chapel Road

Millikin Road – just west of Morris Road (repairs only)

Princeton Road – Jayfield Drive to Ohio 747 (repairs only)

Stahlheber Road – U.S. 27 to Hamilton corp

Yankee Road – Princeton Road to south of Devon Drive

MILES: 14.0

Funded by Fairfield Township:

Morris Road – Tylersville Road to Hamilton Mason Road

Various subdivision streets

MILES: 3.5

Funded by Hanover Township:

Rahfuse Avenue – Stahlheber Road to Pearle Lane

Washburn Road – Ohio 177 to dead end

MILES: 0.3

Funded by Liberty Township:

LeSourdsville West Chester Road – Millikin Road to Kyles Station Road

Millikin Road – Cincinnati Dayton Road to Butler Warren Road

Yankee Road – Linn Road to Hankins Road

Various subdivision streets

MILES: 5.4





Funded by Madison Township:

- Dickey Road – West Alexandria Road to Kalbfleisch Road
- Hinkle Road – Hetzler Road to Montgomery County line (repairs only)
- Howe Road – Wayne Madison Road to Elk Creek Road
- Michael Road – Ohio 122 to Hetzler Road (repairs only)
- Thomas Road – Sloebig Road to Middletown Germantown Road
- Pleasant Hill Cemetery – various roads

MILES: 3.2

Funded by West Chester Township:

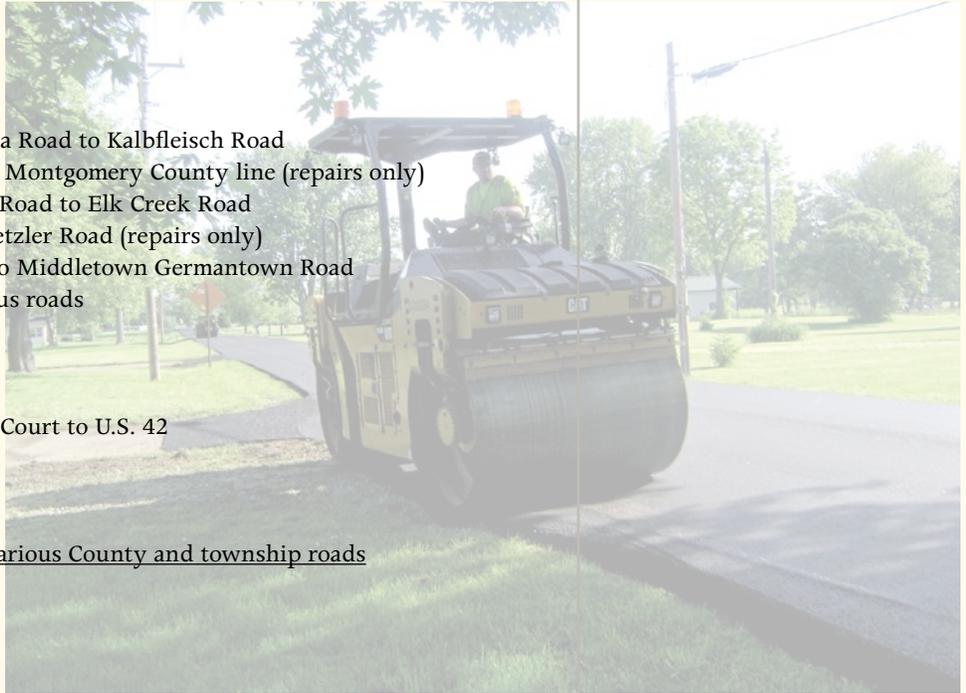
- West Chester Road – Congress Court to U.S. 42
- Various subdivision streets

MILES: 11.6

Contract 2017-21A – Chip seal of various County and township roads

TOTAL MILES: 12.7

TOTAL COST: \$869,739



Funded by BCEO:

- State Road – Hamilton Eaton Road to Ohio 744
- Waynes Trace Road – U.S. 127 to Preble County line

MILES: 7.6

Funded by Hanover Township:

- Salman Road – Stahlheber Road to dead end

MILES: 0.4

Funded by Morgan Township:

- George Road – Schradin Road to Okeana Drewersburg Road
- Layhigh Road – Chapel Road to North Wynn Road (repair only)

MILES: 1.7

Funded by Ross Township:

- Fenton Road – Morgan Ross Road to Ohio 748

MILES: 1.2

Funded by Wayne Township:

- Shurz Road – Stubbs Road to Preble County line
- Stubbs Road – Shurz Road to Jacksonburg Road

MILES: 1.8

Contract 2017-22A (local funding portion only) – Black mat bituminous coating on various township roads

TOTAL MILES: 12.9

TOTAL COST: \$627,379

Funded by Hanover Township:

Various subdivision streets

MILES: 0.6

Funded by Liberty Township:

Various subdivision streets

MILES: 3.2

Funded by Oxford Township:

Various subdivision streets

MILES: 1.6

Funded by Ross Township:

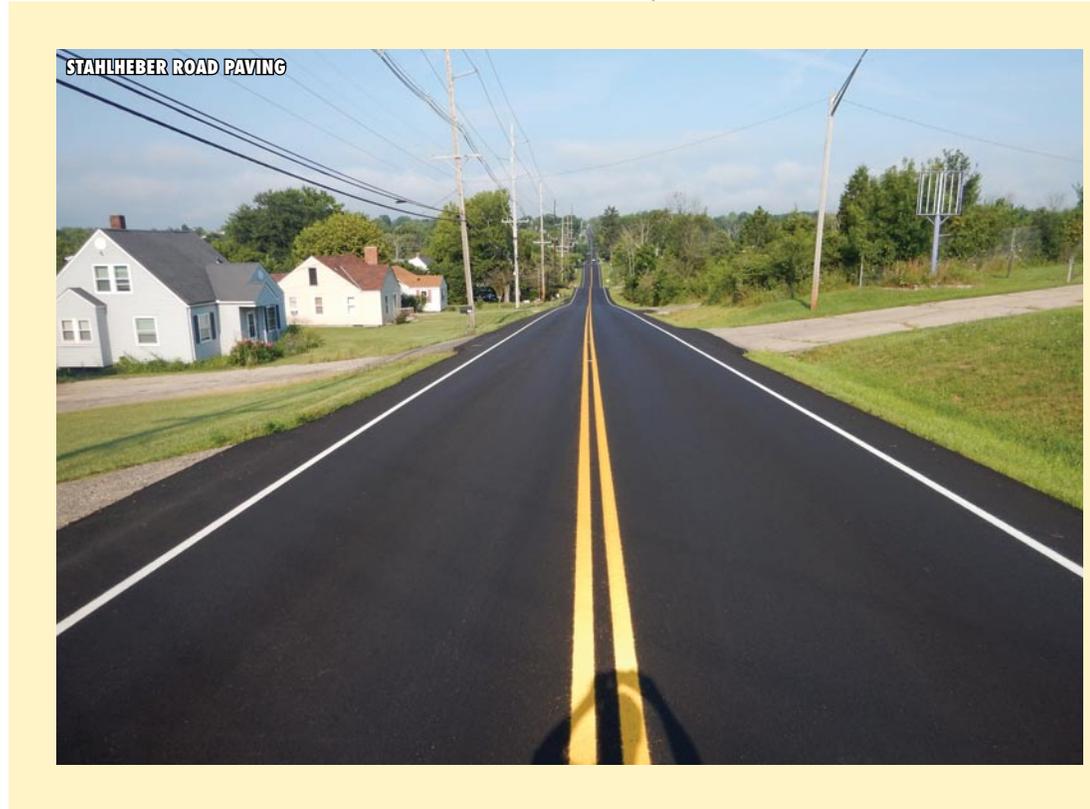
Various subdivision streets

MILES: 1.5

Funded by West Chester Township:

Various subdivision streets

MILES: 6.0



BUTLER COUNTY'S ROUNDABOUTS AND HOW TO PROPERLY NAVIGATE A ROUNDABOUT

The BCEO conducted an evaluation of its growing lineup of modern roundabouts and promoted tips for safe and proper navigation. An informational brochure was updated, re-posted on the BCEO web site and distributed to various high schools, driving schools, and civic organizations. A BCEO news release was picked up and re-posted by several national media outlets and roundabout advocacy groups.

So how are Butler County's working out? The Butler County Engineer's Office compiled statistics to date (mid-2017) and found that its roundabouts have resulted in:

- 60 percent reduction in overall crashes
- 80 percent fewer injury crashes
- 100 percent reduction in serious and fatal crashes

This compares with a national average of 40, 75, and 90 percent respectively. So Butler County's roundabouts are even outperforming the national statistics.

Butler County Engineer Greg Wilkens noted that "we've indeed found the modern roundabout to be a safer, more efficient alternative to traditional intersections at certain locations.

The number and severity of accidents have been substantially reduced where our roundabouts have been installed, so they are doing their job."

There are many reasons why BCEO Traffic Engineers identify a roundabout to be a good solution to a problematic intersection.

While not necessarily the answer for every intersection, a roundabout may be determined to be the least costly and most effective solution at certain locations due to the roundabout's smaller "footprint," which requires less land and right-of-way acquisition. Turn lanes can require more land acquisition and ongoing operation of signals can drive up costs.

Moreover, there are the roundabout's inherent safety features. Stop signs and signals do not guarantee that motorists will stop. Roundabouts act as traffic calming devices which force drivers to slow down. Any accidents that may occur are almost always less severe.

Because roundabouts improve the efficiency of traffic flow, they also reduce vehicle emissions and fuel consumption. During peak traffic hours roundabouts carry about 30 percent more vehicles than signalized intersections, resulting in less stopping, fewer delays, and better fuel efficiency.

Wilkens added that "roundabouts are not only safer, but we've found that motorists tend to like roundabouts over signalized or two-way/four-way stops because traffic continues to flow, albeit a bit slower, versus stopping and waiting for a light to change or for traffic to clear. And they feel safer."

One Butler County motorist shared the following in an email to the BCEO: "As a resident of Butler County, I would like to commend you on the installation of roundabouts for traffic flow at intersections. Having lived in the United Kingdom and Europe where they are extensively used, I find them safer and better assist the flow of traffic than regular stop intersections.... Keep up the good work."

How Many So Far?

Butler County's roundabout count stood at 19 last year, which includes six neighborhood traffic circles. The jurisdictional breakdown is:

- BCEO maintenance = 9
- Township maintenance = 9 (Includes neighborhood traffic circles. BCEO was involved with construction of three in commercial/retail locations.)
- ODOT = 1 (BCEO constructed this roundabout at Layhigh Road and Ohio 748)

More roundabouts are being planned within the next three years according to BCEO Traffic Engineer Matt Loeffler, including:

- Beckett Road at Smith Road
- Yankee Road at Millikin Road
- Hamilton Mason Road at LeSourdsville West Chester Road
- Hamilton Mason Road at Gilmore Road
- Ohio 73 at Jacksonburg Road (to be constructed by ODOT)

How To Properly Navigate A Roundabout

While most drivers prefer roundabouts once they get used to them, there is a learning curve, but it's really quite simple. The BCEO offers the following tips for navigating roundabouts safely and properly:

APPROACHING and ENTERING

- When approaching a roundabout, slow down and be prepared to yield to pedestrians in the crosswalk.
- Pull up to the Yield line, look to the left for approaching traffic within the roundabout. Remember, circulating traffic has the right-of-way. Entering traffic must yield the right-of-way to circulating traffic.
- Enter the roundabout when there is an adequate gap in circulating traffic. Proceed to your right. Vehicles travel counterclockwise around a raised center island.

IN THE ROUNDABOUT

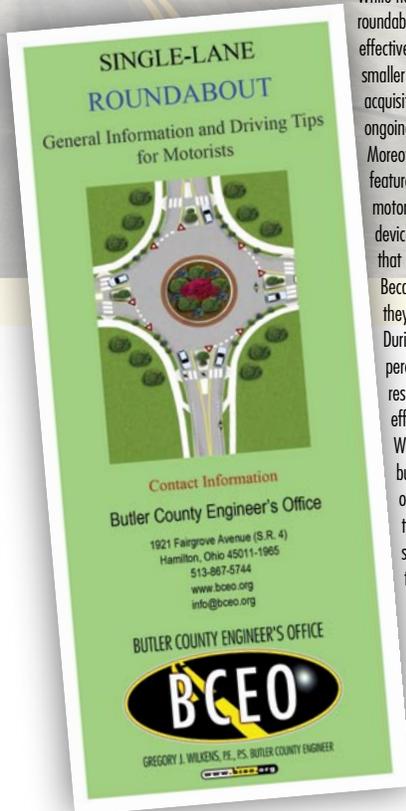
- Once in the roundabout, drivers proceed counterclockwise to the appropriate exit, following the guidance provided by traffic signs and pavement markings. Once in the roundabout, you now have the right-of-way. You shouldn't have to stop.
- Stay off the slightly raised truck apron unless needed by a larger turning radius vehicle.

EXITING

- As you approach your exit, use your right turn signal if possible.
- Watch for pedestrians in the crosswalk and be prepared to yield.
- Slowly exit the roundabout.

Resources and Educational Material

Additional tips and roundabout resources can be found on the BCEO's Traffic Page. We also make available pre-printed brochures or downloadable PDFs from our web site for distribution to schools and community groups. These are great educational tools for motorists who may be unfamiliar with how to properly navigate a roundabout. Any school or organization can obtain pre-printed copies at no charge by contacting the Engineer's Office at info@bceo.org.



Railroad Crossings

Railroad crossing safety is a major concern of the County Engineer's Office. The BCEO works closely with the railroad companies to facilitate road closings and subsequent repairs at various crossings throughout Butler County each year.

Railroad Funds

Crossing replacements / repairs

Trenton Road at CSX RR (north crossing)
Wehr Road at CSX RR
(Funding: CSX)

Crossing replacement

Dunwoody Road at Indiana & Eastern Railroad
Peoria Reily Road at Indiana & Eastern Railroad
(Funding: I&E)



Other

Federal Community Development Block Grant Funds

Contract CDBG-16-10 – Sidewalk installation

Village of Seven Mile – Walnut Street
TOTAL COST: \$58,093

Federal Funds by Contract

Butler County TID Contract D1137 – New roadway extension

Salzman Road from original dead end to Todhunter Road
TOTAL CONSTRUCTION COST: \$1,577,280
(Additional funding: ODOT, City of Middletown, City of Monroe. BCEO provided construction management.)



Local Funds by Contract

Contract 2017-07 – Drainage and roadway repairs

Kyles Station Road at Mauds Hughes Road
TOTAL CONSTRUCTION COST: \$223,606
(Funding: Liberty Twp)

Contract 2017-19 – Retrace of centerlines, edgelines, stop bars, arrows (paint)

Various County and township roads
TOTAL COST: \$268,918
(Funding: BCEO; Hanover, Morgan, St. Clair, Wayne, Liberty, West Chester Twps)



CENTERLINE MILES – COUNTY ROADS: 105.40
CENTERLINE MILES – TOWNSHIP ROADS: 70.40
EDGELINE MILES – COUNTY ROADS: 222.20
EDGELINE MILES – TOWNSHIP ROADS: 78.60

BCEO Funds through Traffic Signal Maintenance Contract

Contract 2016-25M – Maintenance, repair, minor construction of traffic signals

Various County intersections

TOTAL COST: \$200,000

(Two-year contract, 2016-2017)

Local BCEO Funds by Force Account

Storm sewer replacement

Devonwood Drive

TOTAL COST: \$62,780

Drainage improvements, pipe frontage

Lanes Mill Road at Nichols Road

TOTAL COST: \$52,520

Drainage improvements

Princeton Road west of Castle Hill Drive

TOTAL COST: \$108,593

BUTLER COUNTY ENGINEER'S OFFICE



GREGORY J. WILKENS, P.E., P.S. BUTLER COUNTY ENGINEER



PRINCETON ROAD DRAINAGE CONSTRUCTION

CONSTRUCTION DEPARTMENT

The BCEO Construction Department oversees the implementation of all capital improvement contracts for bridge, roadway, paving, and intersection construction. This includes preparation and management of contracts and payments to contractors, utility coordination and relocation, and construction inspection. Additionally, the Department performs inspections of culverts, pavement conditions, and ditch petitions. Driveway, right-of-way, and special hauling permits are also reviewed and issued by the Construction Department.



OPERATIONS DEPARTMENT

General / Seasonal Roadway Maintenance

The Operations Department of the Butler County Engineer's Office is responsible for all Force Account projects as well as the general day-to-day maintenance and seasonal-type maintenance of bridges and roads on the County roadway system. This includes ditching and drainage projects, painting and striping of roads, signing, traffic signal maintenance, patching, pavement repair, bridge repair, berm work, guardrail repair, mowing, brush and weed control, and snow and ice control. Also included is emergency maintenance such as storm damage, downed trees, high water and flooding problems, and any debris that poses an immediate safety hazard to the motoring public.



TOTAL SPENT ON GENERAL MAINTENANCE IN 2017: \$1,384,174
TOTAL SNOW AND ICE CONTROL COST JAN-DEC 2017: \$509,040

During 2017 the Operations Department added the following equipment:

- Two New Holland tractors with mowers
- Ford F-450 Crew Cab
- Three GMC 1500HD Crew Cab

Each spring the BCEO advertises for bids on road salt for the following winter. These bids are compiled in conjunction with various cities and townships in order to get a better price. This resource sharing has become critical for local and regional jurisdictions as the cost of fuel and materials steadily increases. The following contract was awarded in 2016:

Contract 2017-1M – Bulk-treated sodium chloride

For Butler County; Cities of Fairfield, Oxford; Village of New Miami; plus various townships

TOTAL COST: \$64.23/TON (PILER), \$58.73/TON (DUMP)

2017 Snow and Ice Control / Weather-Related Maintenance

The winter of 2016-17 was one of the mildest, least snowy winters on record in this part of Ohio. The BCEO experienced very few actual snow/ice events, most of which were very light dustings of an inch or less. Only two minor snowfalls of between one and five inches were recorded. This resulted in a substantial savings on salt and snow and ice control operations.

The latter part of 2017 saw only a couple inches of snow around the holidays of late December.



ROAD CREWS PREP FOR WINTER BCEO Hosts Annual Snow Plow ROADEO

Two winters in a row with below normal snowfall and warmer than normal temperatures wouldn't keep BCEO snowfighters from preparing for winter. "We'll be ready regardless of what's on top," said Butler County Engineer Greg Wilkens. "Our annual winter preparation is a tradition that's important and constructive, but also fun and challenging for our snow plow drivers. We look forward to it every year."

That tradition includes the annual truck Rodeo, a friendly competition which allows crews to practice truck maneuvers through an obstacle course designed to simulate actual winter situations. BCEO drivers are joined by their fellow crew members from various other Butler County cities and townships, who also compete for the best times and most accurate truck maneuvers. Prior to the truck Rodeo, crews participated in classroom review with BCEO Operations Deputy Scott Bressler talking about current snow and ice fighting technologies and the evolution of surface treatments from slag and salt to calcium and beat juice mixes. Guest speaker Abner Johnson, retired ODOT Transportation Weather Specialist, who developed, implemented, and managed the statewide Road and Weather Information System (RWIS), discussed modern weather forecasting, materials application, and how various types of winter weather impact roadway surfaces and driving.

BCEO crews also perform dry runs of their snow plow routes as part of the snow readiness campaign. Running their routes in dry weather, without the distraction of snow and limited visibility, allows drivers to re-familiarize themselves, or if it's a new route, become familiar with various aspects of the route. This can include any overhead hazards, mailbox placement, pavement cuts or anything that might trip the plow blade, and new roadway features such as a newly constructed roundabout.



Snowfighters Web Page

The Snowfighters page on our web site continues to be instrumental in educating the media and the general public about the BCEO snow and ice control program. Designed to provide an in-depth overview of snow and ice management efforts, the page also features current and seasonal BCEO snowfighting statistics as well as some interesting local winter history.

2017 Snow and Ice Control Summary (Jan. 1 – Dec. 31, 2017)

TOTAL ROAD SALT USED: 3,621 TONS
TOTAL BRINE/CALCIUM CHLORIDE/BEET JUICE MIX USED: 19,136
TOTAL MAN-HOURS UTILIZED FOR SNOW-AND-ICE CONTROL: 2,660 HRS
TOTAL LABOR COST: \$93,442
TOTAL SNOW AND ICE CONTROL COST = \$509,040

DESIGN & ENGINEERING DEPARTMENT

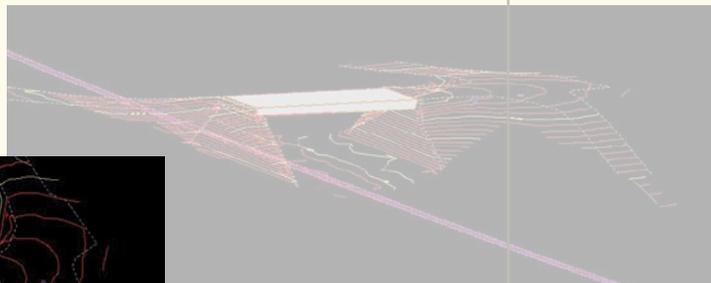
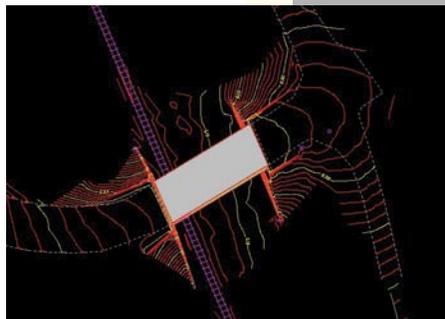
Not covered in our Annual Report is the routine planning and engineering of a project that takes place on a daily basis. Before a project goes to construction and gets reported here upon completion, many hours, sometimes years, of preparation have gone into getting the project ready for construction. Planning and identifying a funding source occur very early in the process, something that many outside of our Office may not realize.

The BCEO Engineering Department is responsible for this early phase in the project timeline and continues to work with the Construction Department even as a project goes to construction. Engineering/Design is a multi-disciplined group that initiates the project development process. Our Planning Group is responsible for prioritizing short-range and long-range construction projects. An important asset of this group is the ability to search for and acquire local, state, and federal funding sources so that additional projects can be constructed while minimizing local dollars. The Geographic Information System (GIS) Department uses digital mapping of Butler County for the purpose of query, analysis, and generation of maps and reports. The Survey Department attains topographic field data by utilizing GPS equipment, performs construction layouts and any other surveying needed for our projects. The Design Group is responsible for both in-house design and project management of culverts, bridges, intersections, and any other roadway projects on both the township and County system. Once plans are complete they are given to our Right-of-Way Acquisition Department so that appropriate work agreements and easements are obtained.

During 2017 the Engineering Department developed plans for the following:



- 16 culvert replacements
- 3 bridge replacements/rehabilitations
 - Lanes Mill Road Bridge #02.519 – Design/Build
 - Middletown Germantown Road Bridge #00.393 – Design/Build
 - Myers Road Bridge #00.019
- 9 roadway improvements
 - Cincinnati Dayton Road Widening (Phase 1) – Four lanes from West Chester Road to LeSourdsville West Chester Road / Station Road
 - Cincinnati Dayton Road Widening (Phase 2) – Four lanes from LeSourdsville West Chester Road / Station Road to I-75
 - Fields Ertel Road – Shoulder widening from Cincinnati Dayton Road to Indian Creek Drive
 - Hamilton Eaton Road – Soften curve north of U.S. 127
 - Liberty Fairfield Road – Additional center turn lane from Princeton Road to Millikin Road
 - Millikin Road – Shoulder widening from LeSourdsville West Chester Rd to Mauds Hughes Road
 - Princeton Road – Shoulder widening from Jayfield Drive to SR 747
 - Princeton Road – Shoulder widening from Cincinnati Dayton Road to Butler Warren Road
 - Tylersville Road (Phase 2) – Additional westbound lane: I-75 to Cox Road
- 6 intersection improvements
 - Beckett Road at Smith Road Roundabout
 - Hamilton Mason Road at Gilmore Road roundabout
 - Hamilton Mason Road at LeSourdsville West Chester Rd roundabout
 - Liberty Way at Butler Warren turn lane additions
 - Millikin Road at Yankee Road roundabout
 - Tylersville Road westbound turn lane to southbound Chantilly Lane
- 1 safety upgrade
 - Millikin Road – Drainage project east of Yankee Road
- 3 interchanges
 - Union Centre Boulevard Interchange – Converting to a Diverging Diamond Interchange
 - Tylersville Road (Phase 3) Interchange – Ramp improvements
 - SR 129 / Liberty Way Interchange – Modification study

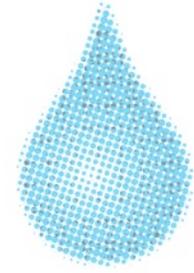


DESIGN & ENGINEERING: DEVELOPMENT SERVICES

This office reviews construction drawings for proposed residential subdivisions and commercial developments within the unincorporated areas of Butler County. To ensure new development follows the mission of the County Engineer's Office, three major components of the plan get evaluated – traffic, drainage, and water quality. To the right are some of the items that get critiqued.

Residential home construction remained steady with 502 single family permits having a value of \$119,722,815.00 across Butler County. As expected, Liberty Township leads all townships having 305 new homes while West Chester Township followed with 93. Recorded subdivision lots increased 45.7% over last year. Even though existing home inventory remains at an all-time low, these positive gains are expected to continue in 2018.

Development of commercial retail centers like Liberty Center focused on infill, and tenant finish space. iFLY Indoor Skydiving experience has plans to construct its first Ohio location in the Liberty Center mixed-use complex. Just a few exits south at Union Centre Boulevard, Chuy's Tex-Mex, Matt the Miller's Tavern and Duluth Trading Company flank the extension of Civic Centre Boulevard from Streets of West Chester development to Allen Road. This extension features a roundabout complimented by dense landscaping, decorative stone wall, lighting, and ponds. Wide sidewalks, crosswalks, decorative fencing, and connections to the Villages at the Streets of West Chester make this area a gateway for West Chester Township.




TRAFFIC

- STREET CONNECTIVITY & LAYOUT
- INTERSECTION SIGHT DISTANCE
- HORIZONTAL & VERTICAL DESIGN OF THE STREET
- TURN LANE & SIGNAL ANALYSIS


DRAINAGE

- STORM WATER DETENTION BASINS
- STREET STORM SEWERS & EMERGENCY FLOOD ROUTES
- GENERAL SUBDIVISION DRAINAGE & GRADING
- FLOODPLAIN DELINEATION & MITIGATION


WATER QUALITY

- COMPLIANCE WITH EPA REGULATIONS
- CLEANSING OF STORM WATER RUNOFF
- CATCH BASIN LABELING & CREEK SIGNAGE
- BEST MANAGEMENT PRACTICES



DESIGN & ENGINEERING: GIS / TAX MAP / RECORDS / IT

GIS / Tax Map

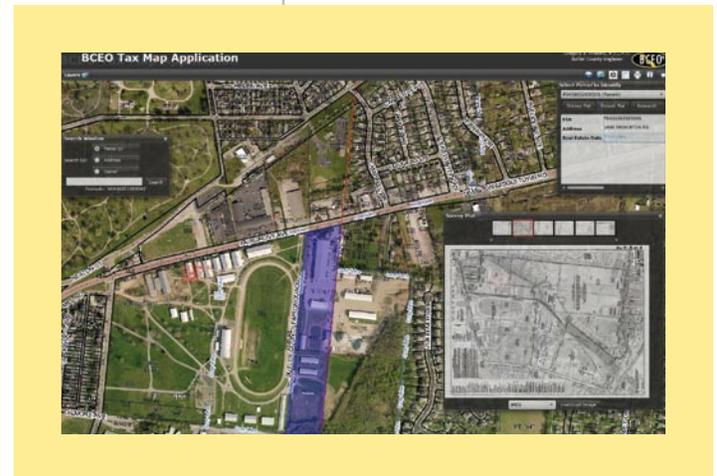
The Tax Map Office keeps tax plats of all land in the County, providing service and assistance about property to attorneys, appraisers, developers, engineers, realtors, surveyors, and the general public. Continually updated parcel numbers, lot numbers, new subdivisions and other tax map information aids the County Auditor in the real estate assessment of taxes and in maintaining the Auditor's system (IAS). The Tax Map Office is responsible for maintaining the 911 emergency system, assigning new addresses, and maintaining the centerline data for the county. Tax Map also provides address information to the Butler County Building Department for building permits and checks and records survey plats and legal descriptions.

Specifically the Tax Map Office is responsible for the following:

- Create and Maintain the Butler County Tax Map web site
- Maintain tax map and assign new parcel numbers for the Butler County Auditor
- Maintain BCEO GIS infrastructure including roadway mileage
- Assign and verify addresses for the county's unincorporated areas
- Read legal descriptions for the transfer of property for the Butler County Auditor
- Review subdivision plats for the Butler County Planning Department
- Provide mobile projects for Butler County Engineer's Office Operations Department
- Provide mobile/GPS based projects to collect and maintain infrastructure information in the field
- Scan present as well as historic tax map documents
- Prepare presentations for BCEO projects

During 2017 the Tax Map Office collaborated with the BCEO IT Office to provide a needed update to the Tax Map Interactive Map, offering our users the opportunity to view the map in many formats. The Tax Map Interactive Map is now accessible not only from a desktop computer, but also from a tablet or smartphone. Hosted by BCEO servers, we were also able to increase the map's loading speed, search and maneuvering speeds. The parcel search is more robust and the print feature has been enhanced to give the user a better and more efficient way to print from the map.

Another enhancement to the Tax Map Interactive Map is a link to Historic Information, through the Records link on the left-hand pane of the Tax Map front page. The Tax Map Office in conjunction with the Records Office has made more documents available to the public. Our customers are able to view and download archived tax map pages, survey plat, as well as a number of other historic documents.



Records Office

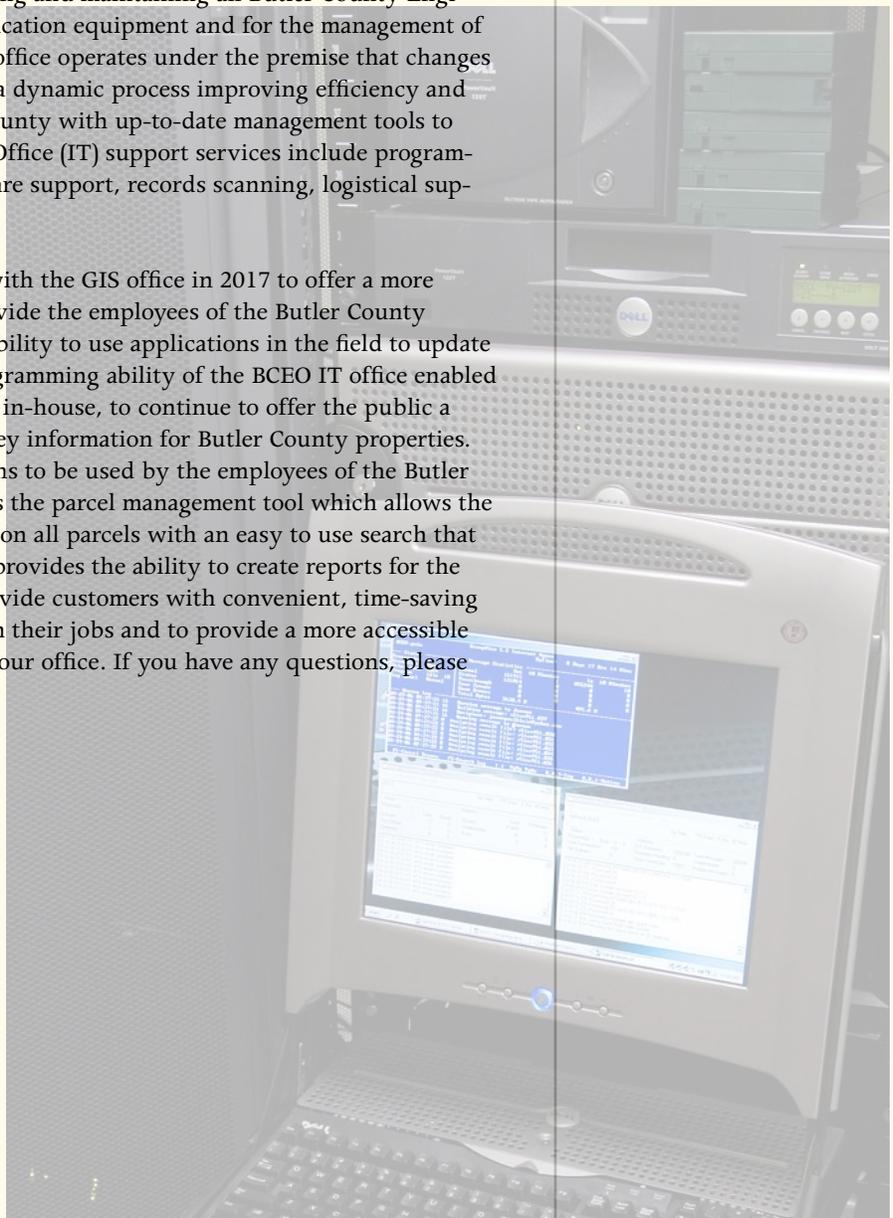
The Records Office is responsible for all historical records and archives, including road and bridge plans, maps, aerial photos, benchmarks, and land records. It was merged with the GIS Office in 2014, allowing more efficient and effective access for the public to research county records. The Office continually strives to improve record keeping as well as provide quick and easy access for Butler County residents

A major focus for this office in 2017 was to continue digitizing all records. Over two million documents, surveys, and plans have been digitized so far. The office also continues to rebuild and replace outdated equipment to ensure the quality and integrity of our records.

Information Services and Technology Office (IT)

Information Services is responsible for acquiring and maintaining all Butler County Engineer's Office computers, servers, and communication equipment and for the management of the County Engineer's records and data. This office operates under the premise that changes in computer systems and planning should be a dynamic process improving efficiency and services, reducing costs, and providing the County with up-to-date management tools to better serve the public. Information Services Office (IT) support services include programming, personal computer hardware and software support, records scanning, logistical support, and network services.

The Information Technologies office worked with the GIS office in 2017 to offer a more efficient and updated system of servers to provide the employees of the Butler County Engineer's Office easy access to data and the ability to use applications in the field to update inventory and inspections. The proficient programming ability of the BCEO IT office enabled an update of the tax map interactive web map in-house, to continue to offer the public a user-friendly way to view and download survey information for Butler County properties. The IT office has also created many applications to be used by the employees of the Butler County Engineer's Office. One such program is the parcel management tool which allows the Tax Map Office to keep historical information on all parcels with an easy to use search that produces information quickly and easily and provides the ability to create reports for the Auditor's conveyance office. Our goal is to provide customers with convenient, time-saving access to the information they need to perform their jobs and to provide a more accessible and economical way to submit information to our office. If you have any questions, please contact us and our staff will be happy to help.



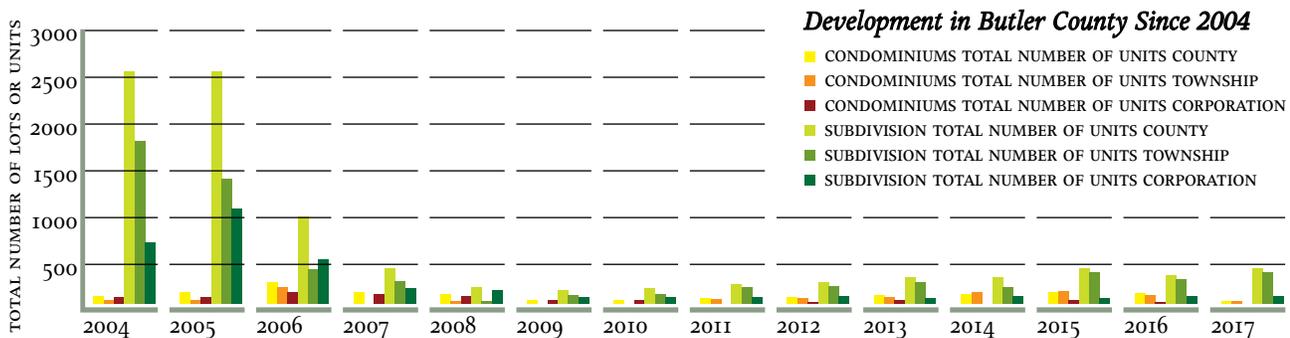
2017 SUBDIVISION DEVELOPMENT

UNINCORPORATED AREAS

TOWNSHIP	SUBDIVISION PLATS	SUBDIVISION LOTS	SUBDIVISION ACRES DEVELOPED	CONDOMINIUMS	CONDO UNITS	CONDO ACREAGE	STREET DEDICATIONS	STREET MILES DEDICATED
Fairfield	1	19	5.8	0	0	0	2	0.2
Hanover	0	0	0	0	0	0	0	0
Lemon	0	0	0	0	0	0	0	0
Liberty	13	292	232.6	6	19	4.2	25	3.2
Madison	0	0	0	0	0	0	0	0
Milford	0	0	0	0	0	0	0	0
Morgan	0	0	0	0	0	0	0	0
Oxford	1	4	9.1	0	0	0	1	0.1
Reily	0	0	0	0	0	0	0	0
Ross	1	31	45.2	0	0	0	3	0.4
St. Clair	0	0	0	0	0	0	0	0
Wayne	0	0	0	0	0	0	0	0
West Chester	5	50	59.6	1	8	4.2	3	0.4
TOTAL	21	396	352.3	7	27	8.4	34	4.3

INCORPORATED AREAS

CITY/VILLAGE	SUBDIVISION PLATS	SUBDIVISION LOTS	SUBDIVISION ACRES DEVELOPED	CONDOMINIUMS	CONDO UNITS	CONDO ACREAGE	STREET DEDICATIONS	STREET MILES DEDICATED
College Corner	0	0	0	0	0	0	0	0
Fairfield	0	0	0	0	0	0	3	0.5
Hamilton	0	0	0	0	0	0	2	0.2
Jacksonburg	0	0	0	0	0	0	0	0
Middletown	0	0	0	0	0	0	0	0
Millville	0	0	0	0	0	0	0	0
Monroe	1	45	15.8	0	0	0	3	0.4
New Miami	0	0	0	0	0	0	0	0
Oxford	0	0	0	0	0	0	1	0.1
Seven Mile	0	0	0	0	0	0	0	0
Sharonville	0	0	0	0	0	0	0	0
Somerville	0	0	0	0	0	0	0	0
Trenton	0	0	0	0	0	0	1	0.2
TOTAL	1	45	15.8	0	0	0	10	1.4



DESIGN & ENGINEERING: TRAFFIC

The BCEO Traffic Office is responsible for the engineering, design, installation, and maintenance of all traffic control devices, including signals, signage, and lane markings. Speed limits are also established by this Office, which conducts speed studies in some cases to determine if a speed limit should be changed. Various traffic studies are performed in the planning of future roadway projects utilizing data that is collected and maintained by the Office, including traffic counts and accident data.

Specifically in 2017, the Traffic Office was responsible for the following:

- Maintenance / inspection of 74 traffic signals, 2 flashers, 3 pedestrian signals (\$85,000)
- Maintenance of 20 school zone signals/flashers
- Maintained ten modern roundabouts
- Maintenance of seven traffic operation cameras
- Maintenance of five closed loop systems (\$21,600)
- Collection and data base entry of over 350 ADT traffic counts
- Maintenance of countywide accident data base
- Conducted ten speed studies
- Reviewed ten Traffic Impact Studies (TIS)
- Managed three Interchange Modification Studies (IMS)
- Countywide pavement marking retrace contract
- Received 1,350 OUPS tickets and marked 160 location

The Sign Office in conjunction with the Traffic Office was responsible for the following in 2017:

- Maintenance of over 7,200 traffic control signs
- Produce drawings, set up and maintenance of all road closures and detours
- Signing and traffic control for all BCEO projects
- Supply signs for other Butler County agencies as requested
- Operation of sweeper truck for BCEO and Storm Water District needs



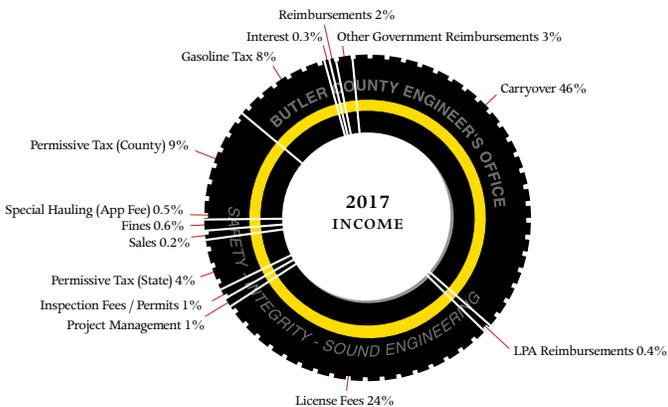
ADMINISTRATION DEPARTMENT

The Administration Department is responsible for managing finances and budget, human resources, public information and media relations. This Department also serves as the primary liaison with the townships and other governmental agencies.



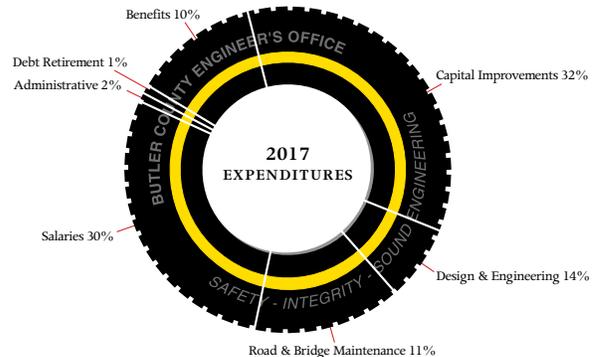
2017 INCOME

INTERGOVERNMENTAL REVENUE	
Gasoline Tax	\$2,319,337
Motor Vehicle License Fees	\$6,721,963
Permissive Tax – State Levy	\$969,174
Other Government Reimbursements	\$898,333
LPA Reimbursements	\$99,224
Interest Earned	\$90,011
TOTAL	\$11,098,042
INTRAGOVERNMENTAL REVENUE	
Sales	\$70,816
Fines	\$148,235
OTHER	
Reimbursements	\$382,705
Inspection Fees & Permits	\$170,528
Project Management	\$163,387
Permissive Tax – County	\$2,705,063
Surity Bond / Subdivision Foreclosures	\$0
Study Grant (I-75/SR129 interchange)	\$0
Special Hauling Application Fee	\$131,188
TOTAL	\$3,771,922
Carryover from 2017	\$12,779,050
TOTAL FUNDS AVAILABLE	\$27,669,014



2017 EXPENDITURES

Capital Improvements	\$4,441,928
Road & Bridge Maintenance	\$1,531,547
Design & Engineering	\$1,879,942
Administrative	\$203,027
Debt Retirement (<i>Principle & Interest</i>)	\$124,288
Salaries	\$4,074,325
Benefits	\$1,386,946
TOTAL	\$13,615,003
Carryover to 2018	\$14,054,011





Gregory J. Wilkens, P.E., P.S.
BUTLER COUNTY ENGINEER



Butler County Engineer's Office

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