

WARREN COUNTY ENGINEER'S OFFICE

ANNUAL REPORT 2016



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Ohio Revised Code 5543.02 Annual Report

The county engineer shall report to the board of county commissioners, on or before the first day of June in each year, the condition of the county roads, bridges, and culverts, and estimate the probable amount of funds required to maintain and repair or to construct any new roads, bridges, or culverts required within the county.

The engineer, on or before the first day of June in each year, shall make an annual estimate for the board of township trustees of each township, setting forth the amount required by the township for the construction, reconstruction, resurfacing, or improvement of the public roads within their jurisdiction. Such estimates shall relate to the year beginning on the first day of March next ensuing, and shall be for the information of the board of county commissioners and board of township trustees, in the making of their annual levies.

The engineer shall approve all estimates which are paid from county funds for the construction, improvement, maintenance, and repair of roads and bridges by the county. The engineer shall approve all estimates which are paid from township funds for the construction, reconstruction, resurfacing, or improving of roads under sections 5571.01, 5571.06, 5571.07, 5571.15, and 5573.01 to 5573.09 of the Revised Code. The engineer shall also approve all estimates which are paid from the funds of a road district for the construction, reconstruction, resurfacing, or improvement of the roads thereof under section 5573.21 of the Revised Code.

For the construction or repair of a bridge, the entire cost of which construction or repair exceeds fifty thousand dollars, the county engineer may request the director of transportation to review and comment on the plans for conformance with state and federal requirements. If so requested, the director shall review and comment on the plans.

Effective Date: 06-30-1995; 03-29-2005

Dear Citizens of Warren County,

What a great year 2016 has been! I am proud of my staff and all that has been accomplished. We've been very busy seeing major improvements completed throughout Warren County.

Each year we are faced with unique challenges as infrastructure ages and construction costs consistently rise. Warren County has for another year been able to face those challenges head on and achieve necessary safety improvements. It continues to be a priority of mine to participate in specifically responding to a statewide funding issue for all local roads and bridge work.



Neil F. Tunison
Warren County Engineer

It is vital for the health of our entire state's road system that our legislators make wise, crucial decisions that will come behind and support the local elected officials responsible for meeting the needs of their local communities and their local road systems. Each community's uniqueness and vitality pieced together is what makes the State of Ohio so great.

This new year is full of promise and I look forward to the work ahead! Thank you to our Board of County Commissioners, County Prosecutor's Office and other County offices, all of our Township Trustees and Fiscal Officers, municipalities, and ODOT for a great year!

Sincerely,

A handwritten signature in black ink that reads "Neil F. Tunison". The signature is written in a cursive, flowing style.

Neil F. Tunison, P.E., P.S.

Financial Highlights for 2016

EXPENDITURES

Payroll	\$ 2,386,133.27
Equipment & Buildings	\$ 1,638,219.87
Benefits	\$ 894,010.39
Other	\$ 72,787.19
Capital Improvements	\$ 3,795,277.68
Insurance	\$ 3,805.25
Road Repair & Maintenance	\$ 135,202.72
	\$ 8,925,436.37

REVENUE

Investments	\$ 0.00
Reimbursement	\$ 218,028.59
Sales	\$ 203,216.70
GIS	\$ 107.05
Gas Tax	\$ 2,338,615.75
Vehicle License	\$ 6,063,842.96
	\$ 8,823,811.05

2016 YEAR IN REVIEW

The Warren County Engineer's Office staff consider it an honor and pleasure to serve the great community of Warren County by providing a safe, well-maintained county road infrastructure.

The Warren County Engineer's Office serves from the Corwin House on 210 W Main Street, Lebanon, Ohio in the capacity of administration and engineering. WCEO's facility on 105 Markey Road, Lebanon, Ohio serves in issuing permits, inspections, and providing highway maintenance. There are also two additional locations for salt storage: one in Wayne Township and one in Harlan Township.

Please read on further for the 2016 review of accomplishments by our team of engineers and support staff who serve Warren County through a variety of engineering, construction, and land record keeping services.

ARMSTRONG ROAD BRIDGE #176-0.24

Warren County replaced the Armstrong Road Bridge #176-0.24 over a branch of O'Bannon Creek during the summer of 2016. The bridge is located on Armstrong Road south of SR 132 in Harlan Township. It was a force account project that consisted of removing the existing steel beam and wood deck culvert and replacing it with a precast concrete box culvert. The project cost \$83,994.74 using funds from the Warren County Engineer.



Above: Old bridge over O'Bannon Creek; Below: Finished Armstrong Road Bridge #176-0.24

BETHANY ROAD BRIDGE #59-2.47

The City of Mason and Warren County in a joint project replaced the Bethany Road Bridge #59-2.47 over a branch of the Little Muddy Creek during the summer and fall of 2016. The bridge is located on Bethany Road between Mason-Montgomery Road and SR 741 in the City of Mason. The existing deteriorated concrete slab bridge was replaced with a precast concrete box culvert. The new structure is wide enough to accommodate the City of Mason's planned future road widening and bike path. Rack & Ballauer Excavating Co. Inc. completed the bridge replacement and utility relocation project for \$356,074.38. The project was funded by the City of Mason, Warren County Engineer, and the Ohio Public Works Commission.



Above: Construction underway on Bethany Road Bridge; After: Completed Bridge Project on Bethany Road

CLARKSVILLE ROAD BRIDGE #37-4.57

Warren County replaced the Clarksville Road Bridge #37-4.57 over Flat Fork during the spring and summer of 2016. The bridge is located on Clarksville Road between Sherod Road and Huddleson Road in Massie Township. The existing steel beam and concrete deck bridge was replaced with a cast in place three sided flat top concrete culvert. DDK Construction Inc. completed the bridge replacement for this design build project for \$368,900. The project was funded by the Warren County Engineer.



Above: Construction on Clarksville Road Bridge; After: Completed Clarksville Road Bridge #37-4.57

STUBBS MILL ROAD BRIDGE #35-0.60

Warren County replaced the Stubbs Mill Road Bridge #35-0.60 over a branch of the Little Miami River during the summer of 2016. The bridge is located at the intersection of Stubbs Mill Road and Mason-Morrow-Millgrove Road in Union Township. The existing stone arch bridge was replaced by force account with a multi plate pipe arch culvert. The project cost \$48,558.79 using funds from the Warren County Engineer.



BR35-0.60 Before Construction



BR35-0.60 Bridge Replacement Complete

WILMINGTON ROAD BRIDGE #7-8.46

Replacement of the Wilmington Road Bridge #7-8.46 over Gum Run was completed during the summer of 2016. The bridge is located on Wilmington Road just west of Ward Koebel Road in Washington Township. The existing steel beam and concrete deck bridge was replaced with a precast three sided flat top concrete culvert. John R. Jurgensen Co. completed the bridge replacement for this design build project for \$416,124.11. The project was funded with federal Ohio Bridge Partnership Program funds and administered by the Ohio Department of Transportation.



BR7-8.46 Completed on Wilmington Road

TRANSPORTATION IMPROVEMENT DISTRICT



The Socialville-Fosters Road improvements, completed this past year, improve transportation access, mobility and efficiency in the area which support local businesses and future development as well as residential traffic.

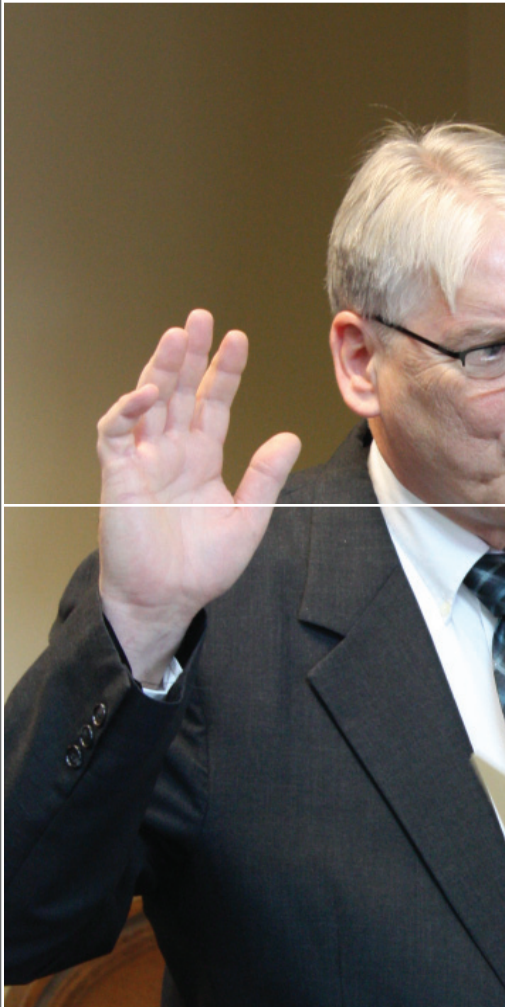
Socialville-Fosters Road has been widened from two to five lanes from Innovation Way to Columbia Road, and the bridge over I-71 has been replaced. (Images 3, 4, and 5)

Also as part of the project, a double-lane roundabout has been built at Socialville-Fosters Road and Innovation Way, including intersection and signal improvements at Columbia Road. The roundabout is a four-legged roundabout with the southern leg being built in anticipation of the extension of Innovation Way south from Socialville-Fosters Road to Duke Boulevard (construction in 2017). (Image 6)

Ongoing Columbia Road improvements support better traffic flow on Western Row Road by relocating Columbia Road and improving the northbound I-71 off-ramp. Extending the distance between the I-71 off ramp intersection and Columbia Road and improving turn lanes which will allow travelers to move more easily through this area. (Images 1 and 2)

This is the first phase of improvements associated with the Western Row Interchange to begin in Summer of 2017.







2016 WARREN COUNTY RESURFACING

Cost – \$ 1,664,078.25
Contractor – John R. Jurgensen

Miles	
Warren County	8.973
Mason-Morrow-Millgrove (CR 38)	2.822
Lower Springboro Road (CR 22)	0.780
Harveysburg Road (CR 25)	2.062
Springboro Road (CR 41)	1.224
Red Lion-Five Points Rd (CR 126)	0.490
Grandin Road (CR 150)	0.442
King Avenue (CR 282)	1.153

Miles	
Clearcreek Township Roads	2.355
Red Lion-Five Points Rd (TR 126)	0.789
Summer Field Lane (TR 656)	0.511
Cahall Drive (TR 1193)	0.177
Deer Path Court (TR 1261)	0.075
Deep Woods Court (TR 1262)	0.256
Bella Terrace Lane (TR 1291)	0.474
Sandelwood Street (TR 2308)	0.073

Miles	
Franklin Township Roads	0.870
Martz-Paulin Road (TR 1080)	0.870

Miles	
Hamilton Township Roads	3.881
Grog Run Road (TR 147)	1.308
Cochran Road (TR 155)	0.441
Wedgewood Drive (TR 722)	0.600
Saratoga Avenue (TR 1011)	0.055
Luhnung Sterrt (TR 1012)	0.080
Fryberger Sterrt (TR 1014)	0.103
Sycamore Road (TR 1115)	0.323
Belwood Lane (TR 1116)	0.373
Miami Bluffs Boulevard (TR 1504)	0.221
Trail Crossing Drive (TR 1505)	0.269
Appaloosa Circle (TR 1533)	0.108

Miles	
Harlan Township Roads	1.385
Long Spurling Road (TR171)	1.385

Miles	
Turtlecreek Township Roads	3.248
Kirby Road (TR 102)	1.449
Charlotte Avenue (TR 2023)	0.637
Hoffmann Avenue (TR 2024)	0.784
Beckett Drive (TR 2025)	0.149
Jerome Street (TR 2026)	0.081
Williams Street (TR 2074)	0.148

Miles	
Union Township Roads	0.400
Turtlecreek Road (TR 72)	0.347
Shawhan Road (TR79)	0.053

Miles	
Washington Township Roads	1.309
Ross Road (TR 249)	1.309

Miles	
Washington Township Roads	1.309
Ross Road (TR 249)	1.309

2016 WARREN COUNTY CHIP SEAL

Cost – \$ 480,680.32
Contractor – Miller-Mason Paving Co.

Miles	
Warren County Roads	11.01
New Burlington Road (CR 36)	5.341
Roxanna-New Burlington (CR61)	0.504
Kenerick Road (CR 133)	1.112
Wilson Road (CR 237)	1.770
Compton Road (CR 240)	1.943
Young Road (CR 259)	0.349

Miles	
Harlan Township Roads	4.374
Roachester-Cozaddale Rd TR52	0.817
Volkerding Road (TR 67)	0.731
Achterman Road (TR 169)	1.715
Starkey Road (TR 177)	1.111

Miles	
Washington Township Roads	2.965
Jack Road (TR 88)	0.832
Ward-Koebel Road (TR 215)	2.133

TAX MAP DEPARTMENT

Accomplishments

- Hired 2 additional employees for the document review process and map conversion project.
- Replaced 6 computers in the office that are utilized for document approval and assisting customers.
- Acquired 2 tablets that are utilized for electronic document approval.

Functions

With respect to the Ohio Revised Code, the function of the tax map department includes the following:

1. Per O.R.C. 315.25, we create and maintain an accurate record of surveys of land and road lines.
2. Per O.R.C. 315.251, we determine if survey plats and descriptions satisfy the minimum for boundary surveys pursuant to Chapter 4733.
3. Per O.R.C. 315.27, we create and maintain indexes of records.
4. Per O.R.C. 317.34, we approve subdivisions for the office of Recorder.
5. Per O.R.C. 319.203, we adopt standards of conveyance and ensure compliance.
6. Per O.R.C. 709.031(A), we prepare a report for petitions of annexations.
7. Per O.R.C. 713.26, we assist the regional planning commission.
8. Per O.R.C. 5311.05, we review condominium declarations.
9. Per O.R.C. 5713.09, we make, correct, and maintain a complete set of tax maps.

Also, we label legal descriptions by parcel number for identification in the Auditor's office and for indexing in the Recorder's office. We assist the public and other government agencies in utilizing the records we keep on file.

Statistics

- Major documents processed.
 - Deeds 8,873
 - Mortgages 11,763
 - Assignments and releases 11,771
- Total documents processed 32,407
- Surveys filed -- 193
- Plats filed -- 112
- Sheriff's precipes processed -- 402

Plans for 2017

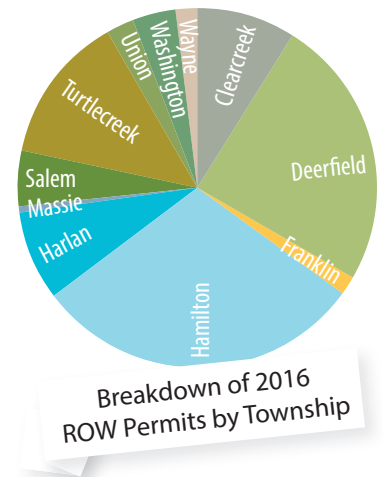
- Continue the capture and quality control of all paper tax map data into the GIS mapping system and print new tax map pages.
- Complete an archival scan of all 2016 Tax Maps.
- Develop a plan to go paperless.

PERMITS SUMMARY

The following are tables showing the permit summaries of 2013, 2014, 2015, and 2016:

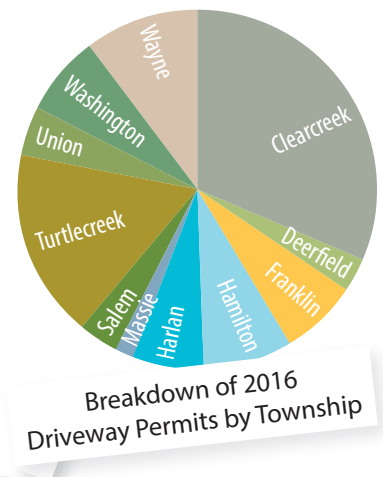
Right-of-Way Permits

	2013	2014	2015	2016
Clearcreek	17	11	21	19
Deerfield	94	137	57	122
Franklin	20	24	4	7
Hamilton	74	85	69	72
Harlan	26	20	19	24
Massie	4	6	1	1
Salem	13	5	12	5
Turtlecreek	36	25	31	45
Union	12	4	6	8
Washington	18	5	9	11
Wayne	27	9	4	5
Total	341	331	233	319



Driveway/Address/Piped Frontage

	2013	2014	2015	2016
Clearcreek	86	63	90	91
Deerfield	14	11	9	15
Franklin	7	15	20	15
Hamilton	33	34	23	22
Harlan	19	21	18	18
Massie	4	3	5	4
Salem	8	10	10	17
Turtlecreek	49	33	49	40
Union	6	8	12	13
Washington	22	20	21	10
Wayne	38	28	29	16
Total	286	246	286	261





WARREN COUNTY HIGHWAY DEPARTMENT

The Highway Department fulfills basic county road and bridge maintenance for 267.46 miles of road, 393 bridges, and 1,392 culverts as well as support to surrounding townships and villages. Included in this are functions such as performing speed studies, installing road signage, detour routing, traffic signals, maintenance mechanics, building and grounds maintenance. One dimension of the department is the Highway Maintenance Facility which has (1) Garage Superintendent and (2) full time Mechanics, (1) Building and Grounds Maintenance personnel, and (1) Highway Clerk. The other dimension of the department is the Highway Maintenance Personnel (Road Crew) which consists of the Deputy of Operations, (2) Foreman, and the (20) road crew employees.

The road crew makes up the majority of the Highway Dept. This group of employees is responsible for the maintenance of the existing county highway system. Their duties require them to maintain a CDL operator's license.

Types of duties performed -- Tree Trimming, Brush Cutting, Guardrail Work, Ditch Cleaning, Culvert Installation and Replacement, Setting up Work Zones, Roadside Mowing, Shoulder Repair, Bridge Installation and Repair, New Road Construction, and Emergency Situations.

Our employees may be called upon for emergency situations, storm clean-up, trees down, flooding, and other road hazards. Snow and Ice Control is our most challenging weather event. We have a call out person that is on call after hours and on weekends to handle emergencies. He has Unit 68 that is equipped with chain saw, road closure signs, etc to handle various types of things that may come up.

It is the job of the Highway Department to make travel on our highway system a safe commute, regardless of weather conditions.

WINTER SEASON SUMMARY

The Highway Department's primary function during winter months is keeping Warren County roadways clear of snow and ice. There were 12 snow occurrences during the 2015-2016 winter season that required 1,091.7 hours of overtime by our road crew and consumed 3162 tons of salt to clear the roads. The entire season cost the county \$273,976.82.

Warren County STORMWATER DISTRICT

STORMWATER PERMIT (PHASE II)

Warren County is currently regulated by a stormwater permit from the Ohio EPA commonly referred to as Phase II. The goal of the program is to reduce pollutants and protect the quality of our streams, lakes, and groundwater through six minimum control measures.

The Stormwater District, a department of the Engineer's Office, also coordinates this permit for other entities including the Townships of Clearcreek, Franklin, Hamilton, Turtlecreek, and Union and the Villages of Maineville and South Lebanon. The requirements of the permit are met through collaboration with other local agencies such as the Warren County Combined Health District and the Warren County Soil and Water Conservation District (SWCD).

In 2016, we met our goals to fulfill the permit requirements by educating the public through various outreach events and programs. Throughout the year the Thomas C. Spellmire Water Conservation Education Exhibit was transported to many public events and local schools in Warren County to provide an interactive educational experience focused on the importance of protecting our water resources.

Through our participation with the Stream Quality Monitoring Program, coordinated by ODNR Division of Watercraft, our stream sampling team at the Fort Ancient Access adjacent to Morgan Canoe Livery continues to see results of good water quality in the Little Miami River.

The Stormwater District continues to make advancements in the mapping of stormwater services by indicating where we have completed inspections, detections and surveys. We are also adding important information to our county maps such as the location of home sewage treatment systems (HSTSs) and stream outfalls.

Visit our website to learn more about how to do your part to protect our local water resources: <http://www.wceo.us/Stormwater/Pollution.aspx>



2017 ADMINISTRATIVE STAFF

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Please visit the County Engineer's website for updates on projects, road closures, and other helpful information.

<http://www.WCEO.us/>

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Warren County Engineer's Office

