WARREN COUNTY ENGINEER'S OFFICE

Annual Report

2015

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Annual Report

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 cos 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 or the plans.

Dear Citizens of Warren County,

2015 was an exciting year in transportation for Warren County!

Thanks to the dedication and hard work of my staff and our regional partners, milestones have been reached through the completion of several key projects that were both groundbreaking and vital to the entire Southwest Ohio Region.

A bucket list item for my career was checked off through the ribbon-cutting of the new northbound I-71 Exit Loop Ramp. It was an honor to commemorate the occasion with numerous dignitaries from throughout the region and state.



Neil F. Tunison Warren County Engineer

It has to also be noted that we were met with success this year as we pursued innovative ways of funding projects as well as satisfying design criterias. I am proud to say it was an efficient and succesful construction season.

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,

heil F. Junion

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

Financial Highlights for 2015

EXPENDITURES

Payroll	\$ 2,226,732.35
Equipment & Buildings	\$ 1,796,353.57
Benefits	\$ 878,407.59
Other	\$ 206,151.91
Capital Improvements	\$ 6,120,329.37
Insurance	\$ 3,764.33
Maintenance	\$ 82,393.73
	\$ 11,314,132.85

REVENUE

	ć 10 700 057 00
Vehicle License	\$ 5,835,637.53
Gas Tax	\$ 2,356,712.91
GIS	\$ 128.14
Sales	\$ 314,743.52
Reimbursement	\$ 2,222,835.78
Investments	\$ 0.00

\$10,730,057.88

2015 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 2015 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.

COLUMBIA ROAD BRIDGE #15-7.94

Rehabilitation of the Columbia Road Bridge #15-7.94 over Turtle Creek was completed during the summer of 2015. The bridge is located on Columbia Road just south of US 42 in Turtlecreek Township. The existing pre-stressed concrete box beam deck was replaced with a new pre-stressed composite concrete box beam deck utilizing the existing concrete abutments and pier. DDK Construction Inc. completed the bridge rehabilitation project for \$470,369.20. The project was funded by the Warren County Engineer.



Old beams being removed from BR15-7.94 during rehabilitation project, completed this past summer.

FOSTERS-MAINEVILLE ROAD (CR23) AND BUTTERWORTH ROAD (CR156)

The Warren County Engineer has widened Fosters-Maineville Road to accommodate a left turn lane onto Butterworth Road, which was completed in the fall of 2015. This widening included a drilled pier retaining wall, new storm sewer system, curb, guardrail replacement, traffic control signs and pavement markings. This project has improved the safety of the motorist by increasing the sight distance as well as the addition of a left turn lane. The construction contract was awarded to Ford Development Corporation. This project was funded by the Warren County Commissioners, Warren County Engineer, CEAO and ODOT for a total bid cost of \$670,757.89.



CR23/CR156 Before Construction



CR23/CR156 Safety Improvements Complete

GREENTREE ROAD WIDENING (CR20)

The Warren County Engineer's Office has completed the Greentree Road Widening Project. This project has improved the vertical profile, the horizontal alignment as well as widened Greentree Road to allow turn lanes onto the adjoining subdivisions. Two box culverts and a new water main were installed due to increase fill of the project. The construction contract was awarded to W.G. Stang LLC. This project was funded by the Warren County Commissioners, Warren County Engineer, OPWC, Welsh Development and Grand Communities for a total cost of \$1,178,628.00.



CR20 Widening Project Complete

LIBERTY-KEUTER ROAD DRILLED PIER WALL PROJECT

A drilled pier wall was constructed on Liberty-Keuter Road to stabilize a roadway slide. The project consisted of constructing approximately 100 feet of drilled pier wall along Liberty-Keuter Road between SR 123 and Timbercreek Drive in Turtlecreek Township. The project was designed by Terracon Consultants Inc. W.E. Smith Construction completed the project for \$118,873.15 during the fall of 2015. The project construction was funded by Turtlecreek Township and the Ohio Public Works Commission. The project design was funded by the Warren County Engineer.





TR95 Before Construction

TR95 Construction Underway

MASON-MORROW-MILLGROVE ROAD DRILLED PIER WALL PROJECT

The Mason-Morrow-Millgrove Road Drilled Pier Wall Project was completed during the week of January 4th of this year by the Warren County Engineer. The project consisted of constructing approximately 300 feet of drilled pier wall along Mason-Morrow-Millgrove Road stopping the roadway slide down toward the Little Miami River. The pier wall is located on Mason-Morrow-Millgrove Road between SR 123 and Anderson Road. The project was designed by Terracon Consultants Inc. W.E. Smith Construction completed the drilled pier wall project for a total bid price of \$235,529.00. The project was funded by the Warren County Engineer.



CR38 Before Construction



CR38 Drilled Pier Wall Complete



OREGONIA ROAD BRIDGE #12-6.37

Rehabilitation of the Oregonia Road Bridge #12-6.37 over a branch of the Little Miami River in Washington Township was completed during the summer of 2015. The bridge is located at the intersection of Oregonia Road and Corwin Road. The force account project consisted of replacing the existing steel beams and concrete deck with new steel beams and a galvanized metal deck utilizing the existing concrete abutments. The bridge rehabilitation project cost \$112,766.30 using funds from the Warren County Engineer.



BR12-6.37 During Construction



BR12-6.37 Bridge Rehabilitation Complete

PLEASANT RENNER ROAD BRIDGE #172-1.43

Warren County replaced the Pleasant Renner Road Bridge #172-1.43 over Ritters Creek during the fall of 2015. The bridge is located on Pleasant Renner Road just south of Roachester-Cozaddale Road in Harlan Township. It was a force account project that consisted of removing the existing wood beam/wood deck bridge and replacing it with a precast concrete box culvert. The project cost \$50,077.72 using funds from the Warren County Engineer.



BR172-1.43 Before Construction



BR172-1.43 Bridge Replacement Complete



TRANSPORTATION IMPROVEMENT DISTRICT

Northbound I-71 Exit / Loop Ramp is COMPLETE – Northbound traffic from I-71 can now by-pass the Fields-Ertel Road and Mason-Montgomery Road intersection and continue driving north on Mason-Montgomery Road. There are now fewer cars cycling through that signal and moving through the main intersection. This improves traffic heading north on Mason-Montgomery, as well as traffic that is continuing to use the northbound exit ramp for access to Fields-Ertel Road and Mason Road in Hamilton County.

RIBBON CUTTING CEREMONY - November 2, 2015



NB Mason-Montgomery Exit Bridges Complete



Commissioner Young Speaking at Ceremony



Left: Ted Hubbard (Hamilton County Enigneer), Tammy Campbell (ODOT Deputy District 8 Director), Todd Portune (Hamilton County Commissioner), Dave Young (Warren County Commissioner), Neil Tunison (Warren County Engineer), Bill Brayshaw (Former Hamilton County Engineer), Mark Policinski (OKI Director)



Ribbon Cutting



First Cars to Ride on Newly Opened Ramp





2015 WARREN COUNTY RESURFACING

Cost – \$2,854,948.21 Contractor – John R. Jurgensen

Full depth pavement repair on the following County Roads:

Morrow-Cozaddale Road, Pleasant-Plain Road, Morrow-Woodville Road, Gustin-Rider Road, Whitacre Road, Cozaddale Road, Middleboro Road. Cost – \$1,023,422.68

Contractor – John R. Jurgensen

	Miles
Warren County	8.444
Columbia Road (CR 15)	1.94
Dearth Road (CR 123)	0.097
Foster Maineville Road (CR 23)	0.888
Foster Maineville Road (CR 23)	3.12
Kings Island Drive (CR 110)	0.07
Kingsview Drive (CR 112)	0.068
Morrow Rossburg Road (CR 27)	1.453
Snider Road (CR 58)	0.808
	Miles
Clearcreek Township Roads	2.913
	0.500

2.913
0.598
0.18
0.08
0.437
0.294
0.432
0.227
0.461
0.204

	Miles
Franklin Township Roads	1.23
Franklin-Madison Road (TR 4)	0.397
Chamberlain Road (TR 107)	0.833

	Miles
Hamilton Township Roads	0.59
Nunner Road (TR 157)	0.418
Sunny Lane (TR 2046)	0.172

	Miles
Harlan Township Roads	1.284
Bindley Mounts Road (TR 183)	0.646
Lower Templin Road (TR 186)	0.224
Carter Howell Road (TR 264)	0.414

Salem Township Roads	0.18
Nixon Camp Road (TR 83)	0.18
	Mil
Turtlecreek Township Roads	5.999
Aspen Ridge Drive (TR 674)	0.386
Golden Fox Trail (TR 622)	1.182
Red Bird Drive (TR 594)	0.282
Shelter Glen Court (TR 676)	0.089
Whitetail Way (TR 621)	0.172
Wrencroft Court (TR 675)	0.149
Magnolia Court (TR 768)	0.047
Marietta Drive (TR 763)	0.24
Natalie Lane (TR 766)	0.787
Ashton Drive (TR 953)	0.027
Columbine Circle (TR 1404)	0.134
Columbine Court (TR 1405)	0.36
Greenbrier Road (TR 655)	0.183
Hatfield Road (TR 97)	0.297
Hatfield Road (TR 97)	0.184
Hatfield Road (TR 97)	0.75
Miller Road (TR 101)	0.371
Goldenrod Drive (TR 2488)	0.125
El Camino Drive (TR 2108)	0.116
Melrose Lane (TR 2106)	0.043
Ocala Drive (TR 2107)	0.075

	TVITICS
Union Township Roads	0.69
Turtlecreek Road (TR 72)	0.66
Trovillo Road (TR 58)	0.03
	Miles
Washington Township Roads	1.552
Gum Grove Road (TR 210)	0.962

0.59

Shawhan Ayers Road (TR 213)

2015 WARREN COUNTY CHIP SEAL

Cost – \$560,699.44 Contractor – Miller-Mason Paving Company

	Miles
Warren County Roads	17.49
Morrow-Woodville Road (CR 24)	7.421
Morrow-Cozaddale Road (CR 43)	1.186
Pleasant Plain Road (CR 44)	1.335
Dallasburg Road (CR 51)	2.284
Whitacre Road (CR 181)	3.193
Gustin Rider Road (CR 187)	2.07

	Miles
Salem Township Roads	5.255
Waynesville Road (TR 39)	2.604
Phillips Road (TR 66)	0.272
Shawhan Road (TR 79)	0.992
Nixon Camp Road (TR 83)	0.18
Gilmour Road (TR 92)	0.195
Salem Road (TR 1132)	0.44
Lake Road (TR 1133)	0.572

Hamilton Township Roads	5.733
Cones Road (TR 255)	0.447
Mounts Road (TR 159)	0.577
Mounts Road (TR 159)	0.89
Dallasburg Road (TR 51)	1.101
Schlottman Road (TR 143)	0.8
Swigert Road (TR 160)	1.918

Miles

	Miles
Harlan Township Roads	3.805
Roachester-Cozaddale Rd (TR 52)	1.568
Layman Road (TR 178)	0.503
Entz-Shawhan Road (TR 189)	1.012
Watkins-Bowman Road (TR 208)	0.445
Carter-Howell Road (TR 264)	0.277

	Miles
Massie Township Roads	3.273
Sherod Road (TR 220)	0.348
Sherod Road (TR 220)	0.282
Huddelson Road (TR 222)	0.738
Brooks-Carroll Road (TR 224)	1.495
Pioneer Village Drive (TR 292)	0.41

	Miles
Washington Township Roads	1.222
Indian Lakes Blvd (TR 1409)	0.292
Arrowhead Lane (TR 1410)	0.282
Flint Trail Drive (TR 1556)	0.648
	Miles
Wayne Township Roads	5.024
Haines Road (TR 137)	0.943
Chenoweth Road (TR 138)	1.077
Mount Holly Road (TR 139)	1.934
Pennewit Road (TR 309)	0.07

1

Cedar Hill Road (TR 574)



PERMITS SUMMARY

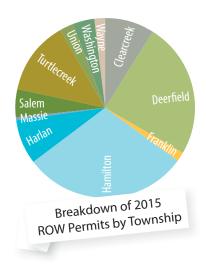
The following are tables showing the permit summaries of 2012, 2013, 2014, and 2015:

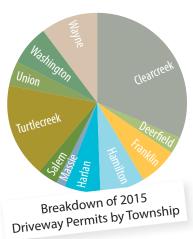
Right-of-Way Permits

	2012	2013	2014	2015
Clearcreek	18	17	11	21
Deerfield	57	94	137	57
Franklin	11	20	24	4
Hamilton	47	74	85	69
Harlan	9	26	20	19
Massie	2	4	6	1
Salem	10	13	5	12
Turtlecreek	34	36	25	31
Union	8	12	4	6
Washington	5	18	5	9
Wayne	25	27	9	4
Total	226	341	331	233

Driveway/Address/Piped Frontage

	2012	2013	2014	2015
Clearcreek	50	86	63	90
Deerfield	6	14	11	9
Franklin	6	7	15	20
Hamilton	12	33	34	23
Harlan	13	19	21	18
Massie	2	4	3	5
Salem	9	8	10	10
Turtlecreek	29	49	33	49
Union	8	6	8	12
Washington	13	22	20	21
Wayne	33	38	28	29
Total	181	286	246	286







WARREN COUNTY HIGHWAY DEPARTMENT

The Highway Department fulfills basic county road and bridge maintenance for 267.35 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 (1) full time Mechanic, (1) Building and Grounds Maintenance personnel, (1) Parts Coordinator, 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. They're 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 19 snow occurrences during the 2014-2015 winter season that required 2,180.5 hours of overtime by our road crew and consumed 4682.63 tons of salt to clear the roads. The entire season cost the county \$443,544.98.



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 protect the quality of our streams, lakes, and groundwater.

The Stormwater District, a department of the Engineer's Office, 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 by collaborating with other local agencies such as the Warren County Combined Health District and the Warren County Soil and Water Conservation District (SWCD).

Throughout 2015, we continued our efforts to fulfill the permit requirements by providing stormwater education and outreach to the public. In the spring of 2015, the mobile Thomas C. Spellmire Water Conservation Education Exhibit was added to the education and outreach program.



In addition, the Stormwater District is in the process of updating permit programs such as the pollution detection and elimination program and ensuring that appropriate regulations are in place to continue to carry out the Erosion and Sediment Control program. Lastly, local partnerships allowed for continued mapping of home sewage treatment systems (HSTSs) that were not included in previous mapping efforts.

Find out how you can do your part to protect water quality by visiting our website: http://www.wceo.us/pages/Stormwater-District.html

2016 ADMINISTRATIVE STAFF

Engineering Staff

Warren County Engineer Neil F. Tunison, P.E., P.S. (513) 695-3307 Neil. Tunison@co.warren.oh.us

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General Inspector Jeff Jones (513) 695-3317 Jeff.Jones@co.warren.oh.us

Subdivision Inspector Phil Ginther (513) 695-3312 Phil.Ginther@co.warren.oh.us

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(513) 695-1192 Greg.Rush@co.warren.oh.us

Greg Rush

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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/

ENGINEER'S OFFICE ADMINISTRATION and ENGINEERING

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HIGHWAY MAINTENANCE,

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HIGHWAY DEPARTMENT

105 Markey Road Lebanon, Ohio 45036 (513) 695-3329

TAX MAP DEPARTMENT

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ANNUAL REPORT 2015

Warren County Engineer's Office

