

HAMILTON COUNTY OHIO

2018 ANNUAL REPORT

THEODORE B. HUBBARD, P.E. - P.S.
HAMILTON COUNTY ENGINEER



TIMOTHY P. GILDAY, P.E.-P.S.
Chief Deputy Engineer

March 1, 2018



THEODORE B. HUBBARD, P.E.-P.S.
HAMILTON COUNTY ENGINEER

To the County and Township Officials:

We would like to personally welcome you to the 2018 Meeting of County and Township Officials. Although 2017 began with some unexpected challenges, it turned out to be a year of great success. Your collaboration and cooperation proved to be most beneficial.

Once again we were blessed with a relatively warm winter season, which made it possible to keep our unit salt costs at the relatively low price of approximately \$50/ ton while preserving our inventories. Unfortunately, the rest of the year was extremely wet with intense rain events, which delayed construction project progress and caused some unexpected and expensive landslides on Van Blaricum Road and Cleves Warsaw Road.

Leveraging and pooling our local resources made it possible to address those unexpected challenges as well as those that we have collectively been working on over the years. The Cleves Warsaw Road Slide Project was completed and opened to traffic before the end of the year and the Van Blaricum Slide Project was able to be funded with completion expected in 2018. Bids were taken on the first Winton Road Project and the Westwood Northern Boulevard Project as well as the Turpin Lane Paving Project, which paved the last gravel road on the Hamilton County roadway system. The opening of the Fields Ertel and Lebanon Intersection Roundabout proved to be a great success moving traffic in a calm and stable fashion. The HCEO 2017 Construction Program, with inclusion of the 20% Fund Program and the Municipal Road Program, grew to be 25% larger the previous year and was approximately 3 times greater in value than the local funding provided from resources administered by the HCEO .

Substantial progress was made in the effort to address aging structures like Western Hill Viaduct and other bridges in Hamilton County. The Ohio Legislature passed House Bill 26 with testimony and support from a wide group of entities that included the County Engineer's Association of Ohio and the Hamilton County Engineer. This legislation made it possible for counties to authorize an Additional \$5 Motor Vehicle Permissive License Fee. The Board of County Commissioners after engaging in a significant amount of the public involvement, evaluation and thought unanimously passed a resolution making it possible for this funding source to be available to help provide valuable local match for the Western Hill Viaduct Replacement Project and funding for numerous other structures in Hamilton County. I want to personally and publically recognize Representative William Seitz, Commissioner Todd Portune, Commissioner Denise Driehaus and Commissioner Chris Monzel for their thoughtful, deliberate and bold leadership in making this most needed funding source available to Hamilton County in the effort to address our most pressing infrastructure needs.

Small Cell Towers continue to compete for utility space in county road right of ways. This demand for communication data transmission is growing and is generating more pressure for small cell towers to be located in the public right of ways. The HCEO is committed to work with townships, local governments and the Prosecutor's Office to make sure the right of way use permit process addresses small cell towers and other data transfer infrastructure in a manner that minimizes impacts and is compliant with the law.

The following report provides an overview of our past year activities as well as our goals and projects for the future. Please review the enclosed material as well as the exhibits on display. Your input is most deeply appreciated and essential in the effort to achieve our collective goal to make Hamilton County the best place to live and to work.

Your questions, comments and suggestions, as always, are most welcome and deeply appreciated.

Very truly yours,

A handwritten signature in blue ink that reads "Ted B. Hubbard".

Theodore B. Hubbard, P.E.-P.S.
Hamilton County Engineer



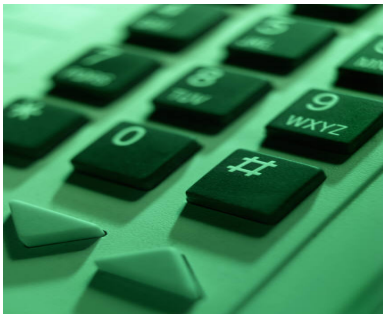
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CONTACT US

We strongly recommend our web site at www.hamilton-co.org/engineer for the latest , and pertinent information. At the web site you can view project and construction news, Hamilton County Storm Water District information, order maps and much more. Departmental information is available on our web site.

Address: 138 East Court Street, Room 700
County Administration Building
Cincinnati, Ohio 45202
Voice: 513.946.4250
Fax: 513.946.4288
Internet: [**www.hamilton-co.org/engineer**](http://www.hamilton-co.org/engineer)
Email: hce.webmaster@hamilton-co.org



CONTACT INFORMATION

HAMILTON COUNTY, STATE OF OHIO

Formed in 1790, Population 2016 Census 805,965 with 414 Square Miles,
12 Townships, 36 other Municipalities, and City of Cincinnati, and over 360,000 parcels of land.

THEODORE B. HUBBARD, P.E.-P.S. HAMILTON COUNTY ENGINEER

Phone: 513-946-8902
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Fax: 513-946-4288
Fax: 513-946-8901

Hamilton County Administration Building
138 East Court Street, Room 700
Cincinnati, OH 45202-1258
www.hamilton-co.org/engineer
Email: Ted.Hubbard@hamilton-co.org

Office Hours Monday -Friday: 7:30-4:00

General Information	County Administration Building	946-4250	
General Information	Burlington Facility	946-8900	
Tim Gilday, P.E.-P.S.	Chief Deputy Engineer/Engineer Services	946-8914	
Eric Beck, P.E.	Deputy Engineer/Field Operations	946-8432	
Todd Gadbury, P.E.	Planning and Design Engineer	946-8445	
Robert Heidkamp, P.S.	Deputy Surveyor, GIS, Computer	946-4265	
Todd Long, P.E.-P.S.	Deputy Engineer / Records/ Storm Water	946-4254	
Bill Luchsinger, C.P.A.	Fiscal Officer	946-4255	
Mark McGownd	Fleet Superintendent	946-8409	
Charlene Vollhardt	Compliance Officer	946-8431	
Gina Stammer	Administrative Secretary	946-8902	
Tom Brayshaw, P.E.	Professional Engineer Bridge Department	946-8419	
Jodi Couch	Purchasing Agent I (Field Office)	946-8420	
Rob Duncan	Western Maintenance Supervisor	946-4968	
Rick Feller	Sign Shop Foreman	946-8415	
Jim Hetzel, P.S.	Professional Surveyor	946-4263	
Jay Jones	Information System Manager	946-4270	
Michelle McMullen	Road Records Supervisor	946-4299	
Kirk Music	Eastern Maintenance Supervisor	946-4978	
Jeff Newby, P.E.	Professional Engineer Traffic Department	946-8421	
Mike Rodziewicz, P.S.	Tax Map, GIS	946-4284	
Mike Roach	Central Maintenance Supervisor	946-8922	
Fred Schlimm	Project Funding Coordinator	946-8912	
Tom Spille	Traffic Signals Foreman	946-8412	
Dennis Vitolo	Tax Map Supervisor	946-4259	
Caroline Waddle	Human Resources Supervisor	946-4271	
Board of County Commissioners	946-4400	Animal Shelter (SPCA)	541-6100
County Administrator	946-4420	Hamilton County Public Health	946-7800
Cincinnati Metropolitan Housing	721-4580	Job & Family Services	946-1000
Community Development	946-8230	Mental Health & Recovery Board	946-8600
County Auditor	946-4000	Developmental & Disabilities Services	794-3300
Building Commissioner	946-4550	Metropolitan Sewer District	244-5500
Clerk of Courts-Auto Title	946-4646	Ohio Kentucky Indiana (OKI)	621-6300
Communications Center	825-2170	Hamilton County Park Board	521-7275
County Prosecutor	946-3000	Planning & Development	946-4550
Hamilton County Coroner	946-8700	Hamilton County Recorder	946-4600
County Facilities	946-5000	Regional Computer Center	352-6400
County Personnel	946-4700	Hamilton County Sheriff	946-6400
Board of Education	674-4200	Soil & Water Conservation	772-7645
Board of Elections	632-7000	Hamilton County Treasurer	946-4800
Emergency Management	263-8200	Veterans Service Commission	946-3300
Environmental Services	946-7777	Zoning	946-4502

Hamilton County Facts and Data

GENERAL DATA

Population (2016)	805,965 (Including Municipalities)
Area	414 square miles

Source: <https://factfinder.census.gov>

Courthouse Elevation 549 Feet
 Highest Elevation 1,081 Feet (Rumpke Landfill)
 Lowest Elevation 450 Feet (Ohio River)
 Highest Natural Elevation 963 Feet Water Tower @ North Bend & Colerain

2016 POPULATION

<u>Anderson Twp.</u>	<u>43,807</u>	<u>Harrison Twp.</u>	<u>4,153</u>
<u>Colerain Twp.</u>	<u>58,924</u>	<u>Miami Twp.</u>	<u>15,939</u>
<u>Columbia Twp.</u>	<u>4,551</u>	<u>Springfield Twp.</u>	<u>36,532</u>
<u>Crosby Twp.</u>	<u>2,758</u>	<u>Sycamore Twp.</u>	<u>19,307</u>
<u>Delhi Twp.</u>	<u>29,612</u>	<u>Symmes Twp.</u>	<u>14,844</u>
<u>Green Twp.</u>	<u>58,783</u>	<u>Whitewater Twp.</u>	<u>5,341</u>
		<u>TOTAL</u>	<u>294,551</u>

Source: <https://development.ohio.gov>

Information available to the public includes:



- Surveys
- Field Notes
- Section Corners
- E-File
- 2017 Aerial Photos



Benchmarks (survey monuments with State Plane Coordinates and Elevation)

Tax Maps (shows property lines, roads, subdivision names, Book-Page-Parcel)

HAMILTON COUNTY ENGINEER'S OFFICE

THEODORE B. HUBBARD, P.E. - P.S.

www.hamilton-co.org/Engineer



MAINTENANCE DEPT.

- Largest Department in Engineer's Office
- Maintains Roadways
 - Snow & Ice Removal in winter
 - Fix potholes
 - Cut brush/mow in Right of Way
 - Stabilize road & hill slips
 - Pipes/walls/piers & guardrails
 - Roadkill & foreign object removal
- 3 Divisions & 2 Substations
 - Divisions
 - Eastern - located in Newtown
 - Central - located in Burlington Area
 - Western - located just outside Miamitown
 - Substation (locations)
 - Delhi Township
 - City of Harrison
 - Service Garage & Traffic Dept
 - Hartwell

For more information visit:
www.hamilton-co.org/engineer/maintenance.htm
or scan the QR Code to the right -->



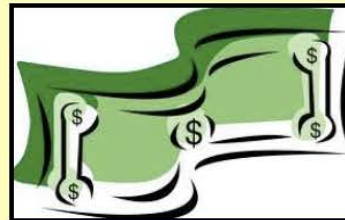
BUDGET DEPT.

- Budget of \$20 mil + for roads & bridges
- Responsible for procurement of equipment & materials for projects
- Monitors payroll & Capital Improvement Projects

How the Engineer's Office is funded

- Fuel taxes
- Motor Vehicle Registration Fees
- Supplemental Funds (voted bond issues & levies, as well as fines)

For more information visit:
www.hamilton-co.org/Engineer/budget.htm
or scan the QR Code to the right -->



ONLINE INFORMATION

- Engineer's Office Manuals
 - Subdivision Manual
 - Driveway Manual
 - Right of Way Manual
 - Transfer & Conveyance Standards
 - Benchmarks
 - Section Corners
- For this information and more visit:
www.hamilton-co.org/engineer/taxmaps_new.htm
 or scan the QR Code to the right -->



ONLINE INFORMATION

- CAGIS Online
 - Tax Maps
 - Surveys
 - Old Index Sheets
 - Topographic Maps
- For the CAGIS map visit:
<http://cagisonline.hamiltonco.org/cagisonline/index.html>
 or scan the QR Code to the right -->



PLANNING & DESIGN DEPT.

- Responsible for all improvement plans for county roads
- Includes
 - Development of improvement concept
 - Preparation and/or review of detailed plans
 - Acquisition of easements and/or Right of Way
 - Preparation of notes and quantities for bidding
 - Selection of contractor for improvements
- Project types include
 - Road/Lane widening
 - Drainage/storm sewer improvements
 - Installation/repair of guardrails
 - Sidewalk replacement
 - Resurfacing of pavement
- Capital Improvement Program

For more information visit:
www.hamilton-co.org/engineer/planning_design.htm
 or scan the QR Code to the right -->



HAMILTON COUNTY STORM WATER DISTRICT (HCSWD)

- Administered by The Hamilton County Engineer's Office
- In partnership with other offices
 - Hamilton County Soil and Water Conservation District
 - Hamilton County Department of Planning and Development
 - Hamilton County Public Health
 - City of Cincinnati Stormwater Management Utility
 - The Metropolitan Sewer District of Greater Cincinnati
- Goals
 - Protection of Watersheds
 - Compliance with federal storm water permit requirements
 - Minimize impact of local flooding
 - Improvement of overall health of local rivers, streams, & creeks
- Membership of District
 - 38 of 49 jurisdiction in Hamilton County including all 12 townships

For more information visit:
www.hamilton-co.org/stormwater/
 or scan the QR Code to the right -->



For more information visit:
www.savelocalwaters.org/
 or scan the QR Code to the right -->



HAMILTON COUNTY ENGINEER'S OFFICE

THEODORE B. HUBBARD, P.E. - P.S.

www.hamilton-co.org/Engineer



SURVEY/GIS DEPT.

- Land Surveying
- Record Keeping
 - Tax Maps
 - Benchmarks
 - Surveys
 - Section & Military Survey Corners
- Maintain Tax Maps
- Review of Deeds
- Editing of data for CAGIS



For more information visit:
www.hamilton-co.org/Engineer/survey_GIS.htm
or scan the QR Code to the left <--

For Recorders Plat Books Pre Apr 2003 visit:
http://recordersoffice.hamilton-co.org/helpful_information/plats.html
or scan the QR Code to the right -->



For the CAGIS map visit:
<http://cagisonline.hamilton-co.org/cagisonline/index.html>
or scan the QR Code to the left <--



CONSTRUCTION/PERMITS DEPT.

- Issues Permits for work done in Public Right of Way & Subdivisions

PERMITS

- Inspection of projects to ensure compliance with Permit Regulations
- Investigates complaints from public
 - Obstructions of Right of Way
 - Drainage problems
 - Illegally placed advertising in Right of Way
 - Problems due to new construction

CONSTRUCTION

- Inspection to validate fulfillment of contract

-Projects include:

- Intersection widening
- Sidewalk installation
- Storm sewer installation
- Road resurfacing

- Assist townships with road improvements

For more information visit:
www.hamilton-co.org/engineer/permits_const.htm
or scan the QR Code to the right -->



ONLINE INFORMATION

- Engineer's Office Manuals
 - Subdivision Manual
 - Driveway Manual
 - Right of Way Manual
 - Transfer & Conveyance Standards
 - Benchmarks
 - Section Corners
- For this information and more visit:
www.hamilton-co.org/engineer/taxmaps_new.htm
or scan the QR Code to the right -->



TRAFFIC DEPT.

The traffic department is responsible for the operation of 165 traffic signals, the maintenance of the pavement markings and over 19,000 signs, and performs and reviews traffic studies.

The Signal Shop maintains the traffic signals and school flashers, performs quarterly inspections, adjust signal timings, upgrades equipment (i.e. pedestrian countdown signals, addition of uninterruptable power supplies, new controller units).

The Sign Shop performs the long line and intersection striping on the county roadways, plus the manufacturing and installation of roadway signs.

The Traffic Department performs a number of zone and traffic studies

- School Zones
- Speed Zones
- No Parking Zones
- Pedestrian Safety Zones
- Curve Advisory Speed Studies
- Sight Distance Studies
- Traffic Signal Warrant Studies
- All-Way Stop Warrant Studies
- Yearly traffic counts at intersections
- Yearly crash analysis of intersections
- Yearly sign inspection to retroreflectivity standards
- Review of Traffic Impact Studies for developments
- Review of traffic control plans

For more information visit:
www.hamilton-co.org/Engineer/traffic.htm
or scan the QR Code to the right -->



ONLINE INFORMATION

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- For the CAGIS map visit:
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or scan the QR Code to the right -->



BRIDGE DEPT.

The Bridge Department is responsible for the inspection and maintenance of 421 bridges on the County roadway system. By state law, each structure must be inspected annually.

- Annual inspection of all county and township bridges
- Underwater inspections of below water features.
- Load Ratings performed for each structure per federal law.
- Submission of all inspection reports to the Ohio Department of Transportation.

Responsible for all plans for improvements or replacement of county bridges:

- Development of improvement concept.
- Preparation and/or review of detailed plans.
- Preparation of notes and quantities for bidding.
- Selection of contractor for improvements.
- Inspection and project management of bridge and retaining wall projects.

The Bridge Department also designs and constructs retaining structures to correct landslides, which affect the public right of way.

The Bridge Department oversees the daily work of the bridge maintenance crew. The "Bridge Crew" completes routine maintenance and minor repairs to keep the structures and retaining walls functioning as designed.

For more information visit:
www.hamilton-co.org/Engineer/Bridges.htm
or scan the QR Code to the right -->



LICENSE Revenue 20% License Revenue Program



Each year the County Engineer has distributed to the Townships a portion (20%) of the License Revenue added in 1989. Funding amounts this year are based upon the 2017 Motor Vehicle Registrations (MVR). The Townships leverage these funds with a State Capital Improvement Program, Community Development Program, License Revenue Improvement Program, etc. This leveraging of funds will have a great impact on improving the infrastructure within Hamilton County and our Townships. The Office of the Hamilton County Engineer forwards application forms to each township annually. The Townships complete the forms and return them to the Engineer for review and prioritizing. After the review process, the Engineer presents findings and recommendations to the Board of Hamilton County Commissioners for final authorization.

When approved by the Board of Hamilton County Commissioners, the Clerk of the Board issues a Volume and Image number to record the legislation. The Townships that have approved projects are sent a letter informing them of the approval.

The Township may request a warrant by a letter of invoice to the Engineer for the funds to be dispersed. The letter must include the dollar amount being requested, the project name, and the year of approval for 20% funding. The Hamilton County Auditor’s Office issues payment directly to the Township. The funds are for use on the project specified. When the project is complete, the Township is expected to submit a full accounting to the Engineer. Funds not required for the named project are to be returned to the Engineer.

Funding Source

The 20% program funding is from funds received from the sale of license plates within the Township limits. This year, each Township receives an allotment percentage based on the year 2017 annual actual Motor Vehicle Registrations. This Fund provides approximately \$200,000.00 annually, and provides provisions for carry over.

Funds set aside for a Township for a 20% project must be paid to the Township, even if these monies ultimately must be returned to the Engineer. For example, in a case where the requested/approved project is to be performed by a Consultant/Contractor under the Engineer’s contract (such as engineering, resurfacing, etc.) the monies shall be requested as detailed and forwarded to the Township. The Engineer will notify the Township of payment due by copy of Consultant/Contractor invoice whereby the Township shall send payment to the Engineer who in turn pays the Consultant/Contractor. If the final contract amount is lower than the funding received from the 20% funds, the Township must return the balance to the Engineer for deposit back into the 20% fund account.

HAMILTON COUNTY



MOTOR VEHICLE REGISTRATIONS

Type of Registration	2016 DISTRICT UNITS*	2017 DISTRICT UNITS**	2016 TOWNSHIP UNITS*	2017 TOWNSHIP UNITS**
Passenger Car	639,289	638,407	241,096	239,634
Motor Homes	1,664	1,735	895	921
Motorcycles	17,907	17,387	8,188	8,040
House Vehicles	4,489	4,708	2,585	2,723
Mopeds	85	86	20	17
Non-Commercial Trailer	17,797	17,823	10,188	10,127
Non-Commercial Trucks	59,642	60,078	29,286	29,420
Farm Trucks	177	157	146	131
Buses	1,057	1,025	246	277
Commercial Trailers	11,513	12,752	4,529	5,124
Non-IRP Trucks	40,569	42,360	12,004	12,629
IRP Trucks	9,055	8,081	3,334	3,117
Transfers	53,339	54,965	16,940	17,164
Conversions & Add Weight	91	367	37	323
TOTAL REGISTRATION:	856,674	859,931	329,494	329,647

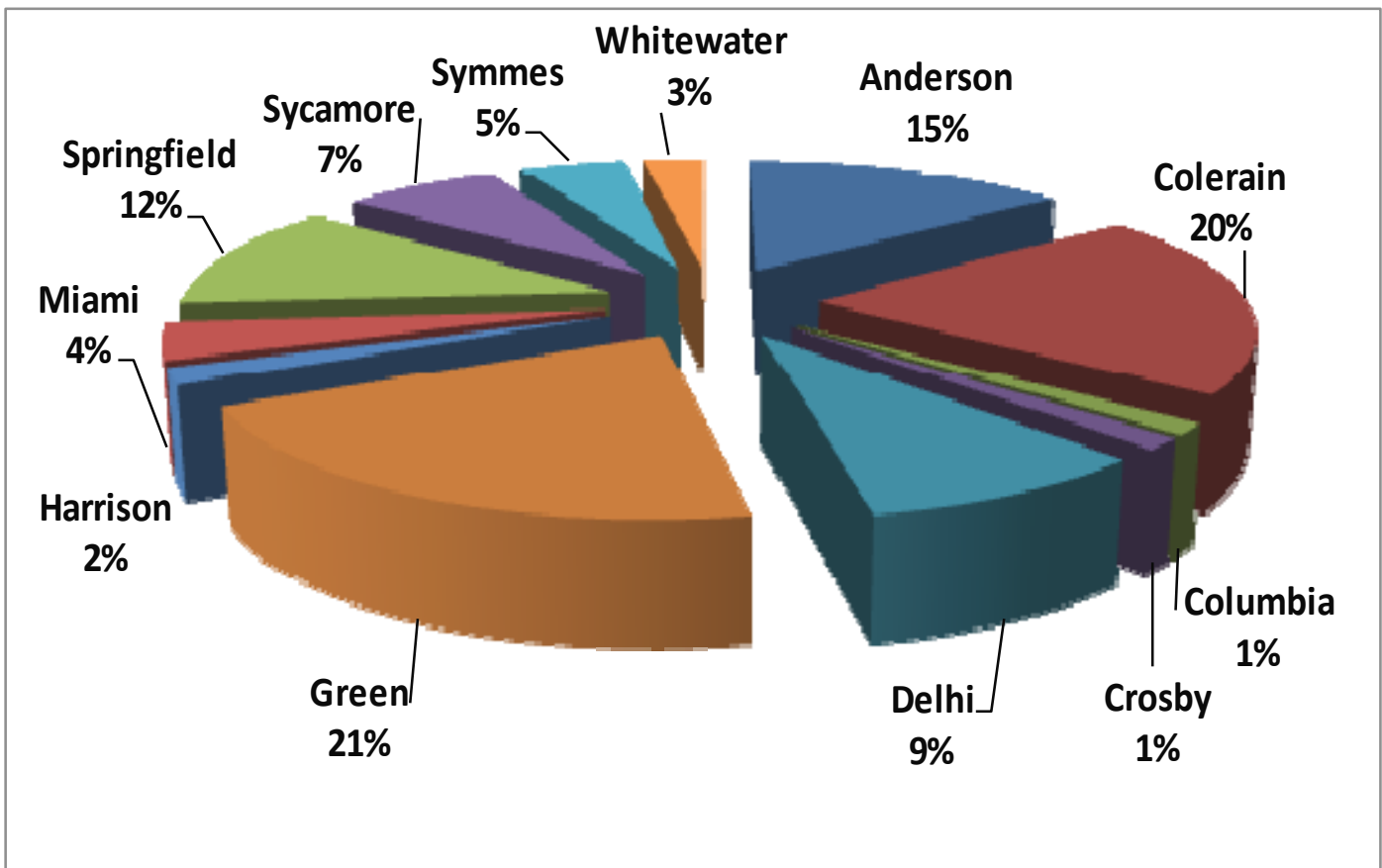
*Source: State of Ohio, Bureau of Motor Vehicles as of Dec 2016
 **Source: State of Ohio, Bureau of Motor Vehicles as of Dec 2017



LICENSE REVENUE TOWNSHIP DISTRIBUTION

TOWNSHIP	2017 M V R ANNUAL	2017 PERCENT	2018 YTD MONIES	2017 YTD AWARDED	2018 AVAILABLE
Anderson	\$29,320	14.66%	843,584	\$785,037	\$58,547
Colerain	\$41,240	20.62%	\$1,209,054	\$1,127,241	\$81,813
Columbia	\$2,580	1.29%	\$72,356	\$53,421	\$18,935
Crosby	\$2,660	1.33%	\$71,722	\$58,251	\$13,471
Delhi	\$18,240	9.12%	\$568,553	\$550,313	\$18,240
Green	\$41,360	20.68%	\$1,163,348	\$1,121,988	\$41,360
Harrison	\$3,700	1.85%	\$104,358	\$97,045	\$7,313
Miami	\$8,280	4.14%	\$189,688	\$156,727	\$32,961
Springfield	\$23,520	11.76%	\$673,500	\$649,980	\$23,520
Sycamore	\$14,200	7.10%	\$407,755	\$379,095	\$28,660
Symmes	\$9,420	4.71%	\$280,385	\$260,429	\$19,956
Whitewater	\$5,480	2.74%	\$144,513	\$123,732	\$20,781
Totals	\$200,000	100.00%	\$5,728,816	\$5,363,259	\$365,557

2017 Township Distribution



ANNUAL TOWNSHIP DISTRIBUTION

<u>TOWNSHIP</u>	<u>PROJECT YEAR</u>	<u>P R O J E C T</u>	<u>APPROVED</u>	<u>YEAR PAID TWP</u>
ANDERSON				
	1990	PAVEMENT MANAGEMENT	\$11,050.00	1990
	1991	BARTELS	\$10,275.00	1991
	1992	BARTELS CONSTRUCTION	\$62,741.00	1992
	1994	SIGNAL HILL SLIDE REPAIR	\$50,000.00	1995
	1995	DEBOLT ROAD REHAB	\$10,000.00	1995
	1996	LAWYER POINT CANCELLED	\$0.00	n/a
	1997	PINEWELL DRIVE	\$50,000.00	1998
	1998	NAGEL/BEECHMONT	\$60,000.00	2000
	1999	RIVERBY DRIVE	\$18,100.00	2000
	1999	ENGINEERING FOR SCIP PROJECT	\$15,000.00	2000
	2000	AYERSHIRE WILSHIRE SUNWAY	\$30,000.00	2001
	2001	FOREST PARK SUBD	\$31,824.00	2001
	2002	FOREST LAKE SUBD	\$30,000.00	2002
	2003	PAVEMENT CONDITION SURVEY	\$12,000.00	2003
	2004	BRUNS LANE	\$48,710.00	2004
	2005	SIGNAL HILL	\$29,500.00	2006
	2006	COVENTRY WOODS	\$31,935.00	2006
	2007	2007 STREET RESURFACING	\$30,247.00	2007
	2008	2008 STREET RESURFACING	\$30,191.00	2008
	2009	2009 STREET REHABILITATION	\$29,442.00	2010
	2010	2010 RESURFACING	\$17,796.00	2011
	2012	DYER STREET REHABILITATION	\$29,349.00	2012
	2014	SHERWOOD SUBDIVISION	\$88,316.00	2014
	2016	CURB AND ADA RAMP IMPROVEMENTS	\$58,561.00	2016
		ANDERSON TOTAL:	\$785,037.00	
COLERAIN				
	1990	PAVEMENT REHAB EARL	\$4,600.00	1990
	1990	COLERAIN/SPRINGDALE INTERSECTION	\$20,000.00	1990
	1991	COLERAIN CORRIDOR STUDY	\$5,000.00	1991
	1991	EARL AVE RECONST, PH II	\$24,105.00	1991
	1991	SHELDON DR RECONST, ENGR ONLY	\$19,366.00	1991
	1992	ROUNDTOP, CLARA, MCGILL, PRECHTEL	\$31,700.00	1992
	1992	PRECHTEL	\$23,850.00	1997
	1993	1993 ISSUE 2 RESURFACING	\$48,113.00	1993
	1994	1994 RESURFACING	\$40,000.00	1994
	1995	COLERAIN CORRIDOR SUBAREA 1	\$85,630.00	1995
	1997	1997 RESURFACING	\$48,690.00	1998
	1998	1998 STREET REHABILITATION	\$43,580.00	1999
	1999	VARIOUS ROADS REPAIR PROJECT	\$43,580.00	2000
	2000	RESURFACING 2000	\$43,580.00	2000
	2001	RESURFACING 2001	\$43,580.00	2001
	2002	RESURFACING 2002	\$42,732.00	2002
	2003	VARIOUS ROAD RESURFACING	\$42,732.00	2003
	2004	2004 STREET REHABILITATION	\$42,522.00	2004
	2005	VARIOUS ROAD REHABILITATION	\$39,218.00	2005
	2006	2006 RESURFACING & CONCRETE WORK	\$40,390.00	2006
	2007	2007 STREET RESURFACING	\$40,035.00	2007
	2008	2008 STREET RESURFACING	\$40,035.00	2008
	2009	2009 STREET RESURFACING	\$40,035.00	2009
	2010	2010 RESURFACING	\$31,367.00	2010
	2011	2011 STREET RESURFACING	\$40,313.00	2011
	2012	2012 RESURFACING PROGRAM	\$40,313.00	2012
	2013	2013 RESURFACING PROGRAM	\$40,578.00	2013
	2016	2016 STREET REHABILITATION	\$121,597.00	2016
		COLERAIN TOTAL:	\$1,127,241.00	

License Revenue—Continued
ANNUAL DISTRIBUTION

<u>TOWNSHIP</u>	<u>PROJECT YEAR</u>	<u>P R O J E C T</u>	<u>APPROVED</u>	<u>YEAR PAID TWP</u>
COLUMBIA				
	1992	PAVEMENT EVAL RIDGEWOOD SUBD	\$6,784.00	1992
	1995	1995 ROAD RESURFACING	\$7,116.00	1997
	1997	FAIRHURST DRIVE	\$4,744.00	1997
	1999	VARIOUS ROADS REPAIR PROJECTS	\$4,744.00	2001
	2000	RESURFACING 2000	\$2,372.00	2000
	2002	BERWICK STREET RESURFACING	\$4,210.00	2002
	2009	RIDGE & HIGHLAND	\$16,264.00	2010
	2011	STREET RESUFACING	\$7,187.00	2011
		COLUMBIA TOTAL:	\$53,421.00	
CROSBY				
	1999	VARIOUS ROADS REPAIR PROJECT	\$23,676.00	1999
	2002	RESURFACING 2002	\$6,988.00	2003
	2004	2004 STREET REHABILITATION	\$4,560.00	2006
	2009	2009 STREET RESURFACING	\$12,400.00	2011
	2011	ARISTOCRAT DRIVE CRACK SEALING	\$5,520.00	2012
	2013	CHIPSTONE DRIVE	\$5,107.00	2013
		CROSBY TOTAL:	\$58,251.00	
DELHI				
	1990	PAVEMENT MGMT SURVEY & PROGRAM	\$14,750.00	1990
	1990	PAVEDEX STUDY	\$3,935.00	1990
	1991	PAVEDEX STUDY	\$2,805.00	1991
	1991	FAYSEL DRIVE	\$26,500.00	1991
	1992	PAVEMENT MGMT UPDATE/UPGRADE	\$9,749.00	1992
	1993	DYNAFLECT TESTING OF ROADS	\$13,840.00	1993
	1994	SALT DOME FACILITY	\$105,000.00	1994
	1998	PAVEMENT MGMT STUDY	\$9,355.00	1998
	2000	PAVEMENT MGMT SYSTEM UPGRADE	\$11,300.00	2000
	2001	PAVEMENT MGMT STUDY	\$24,100.00	2002
	2004	PAVEMENT MGMT STUDY	\$15,500.00	2004
	2005	2005 STREET REHABILITATION	\$98,800.00	2005
	2006	PAVEMENT MGMT STUDY	\$15,500.00	2006
	2007	2007 STREET RESURFACING	\$22,768.00	2008
	2008	2008 STREET RESURFACING	\$18,534.00	2008
	2009	2009 STREET RESURFACING	\$18,692.00	2009
	2010	PMS Road Condition Survey	\$11,091.00	2010
	2011	2011 STREET RESURFACING	\$18,549.00	2011
	2012	2012 STREET REHABILAYION PROGRAM	\$18,549.00	2012
	2013	2013 STREET REHABILITATION PROGRAM	\$18,400.00	2013
	2014	2014-A STREET REHABILITATION PROGRAM	\$18,186.00	2014
	2015	2015-A STREET REHABILITATION PROGRAM	\$18,076.00	2015
	2016	2016-A STREET REHABILITATION	\$18,151.00	2016
	2017	2017-A REHABILITATION PROGRAM	\$18,183.00	2017
		DELHI TOTAL:	\$550,313.00	
GREEN				
	1990	WYNNBURNE DRIVE	\$41,735.00	1990
	1991	WHITE OAK DR REHABILITATION	\$40,000.00	1991
	1991	GREENWAY, WOODHAVEN, MOONRIDGE	\$10,885.00	1991
	1992	RECONSTRUCT/REHAB LA GRANGE LN	\$27,298.00	1992
	1993	RIDGEDALE DRIVE REHAB	\$37,053.00	1993
	1994	TURF LANE REHAB	\$38,000.00	1994
	1995	MENZ LANE	\$39,910.00	1995
	1996	STEVIE LANE	\$41,370.00	1996
	1997	SUMMERDALE DRIVE	\$39,000.00	1997

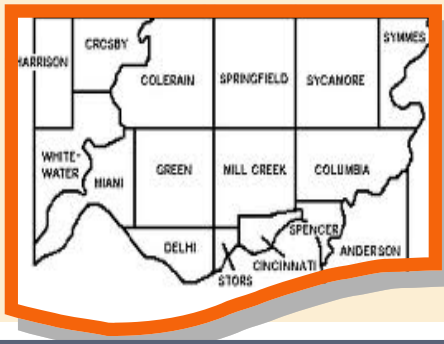
License Revenue —Continued
ANNUAL DISTRIBUTION

<u>TOWNSHIP</u>	<u>PROJECT YEAR</u>	<u>PROJECT</u>	<u>APPROVED</u>	<u>YEAR PAID</u>
<u>TWP</u>				
<i>GREEN TOWNSHIP</i>				
(CONT. From page 11)				
	2000	HAUBNER RD REHABILITATION	\$41,772.00	2000
	2001	VALLEYBROOK DRIVE	\$39,860.00	2001
	2002	RUEBEL PLACE	\$39,884.00	2002
	2003	TALLOAK COURT RESURFACING	\$39,884.00	2003
	2004	LINSAN DRIVE REHABILITATION	\$40,000.00	2004
	2005	EPLEY ROAD IMPROVEMENT (SCIP MATCH)	\$40,000.00	2005
	2006	FLORIDALE LANE	\$40,000.00	2006
	2007	2007 STREET RESURFACING	\$41,700.00	2007
	2008	2008 STREET RESURFACING	\$41,700.00	2008
	2009	2009 STREET RESURFACING	\$41,700.00	2009
	2010	2010 STREET RESURFACING	\$31,788.00	2011
	2011	2011 STREET RESURFACING	\$40,469.00	2011
	2012	2012 STREET RESURFACING	\$40,469.00	2012
	2013	2013 STREET REHABILITATION PROGRAM	\$40,502.00	2013
	2014	2013 STREET REHABILITATION PROGRAM	\$40,927.00	2014
	2015	2015 STREET REHABILITATION PROGRAM	\$41,747.00	2015
	2017	2017 STREET REHABILITATION PROGRAM	\$82,560.00	2017
		GREEN TOTAL:	\$1,121,988.00	
<i>HARRISON</i>				
	1991	LEES CREEK ROAD	\$18,651.00	1992
	1995	1995 ROAD REHAB	\$3,633.00	1995
	1996	HOPPING SLIDE	\$25,000.00	1997
	2007	2007 STREET RESURFACING	\$18,442.00	2007
	2014	FARMLAND DRIVE	\$16,280.00	2014
	2016	NEW BIDDINGER & LEES CREEK INT	\$15,039.00	2016
		HARRISON TOTAL:	\$97,045.00	
<i>MIAMI</i>				
	1993	TOWER ROAD RESURFACING	\$5,612.33	1993
	1997	PICKWAY DRIVE	\$53,793.00	1997
	2002	FROGTOWN STREET IMPROVEMENTS	\$11,912.00	2003
	2004	QUADRANT DRIVE RESURFACING	\$11,300.00	2004
	2007	2007 STREET RESURFACING	\$20,000.00	2008
	2010	2010 RESURFACING	\$23,110.00	2011
	2014	WHISPERING FARM TRAIL	\$31,000.00	2014
		MIAMI TOTAL:	\$156,727.33	
<i>SPRINGFIELD</i>				
	1990	FEASIBILITY STUDY-DRAINAGE/ST. REHAB	\$27,034.00	1990
	1991	HOLYHCK,FALMTH,CHRSTOPL,RYNRD	\$16,000.00	1991
	1992	HOLYHCK,FALMTH,CHRSTOPL,RYNRD	\$32,823.00	1992
	1993	EDGEMONT TERRACE ENGR	\$24,700.00	1993
	1994	MT HEALTHY HGTS	\$24,634.00	1995
	1995	HOLLYHOCK SUBD	\$24,733.00	1995
	1996	EDGEMONT TERRACE	\$24,689.00	1996
	1997	1997 RESURFACING	\$24,689.00	1998
	1998	1998 RESURFACING	\$24,689.00	1999
	1999	VARIOUS ROADS REPAIR PROJECTS	\$24,689.00	1999
	2000	RESURFACING 2000	\$24,689.00	2000
	2001	RESURFACING 2001	\$24,689.00	2001
	2002	WINTONDALE SUBD RESURFACING	\$21,668.00	2002
	2003	MILLBROOK SUBD	\$21,668.00	2003
	2004	PAVEMENT MANAGEMENT SYSTEM STUDY	\$14,200.00	2004
	2005	2005 STREET REHABILITATION	\$26,610.00	2005
	2006	2006 RESURFACING	\$22,162.00	2006

License Revenue—Continued
ANNUAL DISTRIBUTION

<u>TOWNSHIP</u>	<u>PROJECT YEAR</u>	<u>P R O J E C T</u>	<u>APPROVED</u>	<u>YEAR PAID TWP</u>
SPRINGFIELD				
(CONT. From page 12)				
	2010	2010 RESURFACING	\$16,567.00	2010
	2011	2011 STREET RESURFACING	\$22,913.00	2011
	2012	2010 RESURFACING	\$22,913.00	2012
	2013	2013 ROAD IMPROVEMENT	\$22,724.00	2013
	2014	2014 PAVEMENT REJUVINATION PROGRAM	\$22,863.00	2014
	2015	2014 PAVEMENT REJUVINATION PROGRAM	\$11,072.00	2015
	2015	2015 PAVEMENT REJUVINATION PROGRAM	\$12,146.00	2015
	2016	McKELVEY ROAD STORM SEWER	\$23,260.00	2016
	2017	PAVEMENT PRESERVATION PROJECT	\$23,246.00	2017
		SPRINGFIELD TOTAL:	\$649,980.00	
SYCAMORE				
	1991	91 ROAD IMPROVE PROG (91-04 RESURF)	\$40,000.00	1991
	1993	JUD, HUDDLESTON, ESTERMARIE DRIVE REHB	\$19,043.22	1994
	1994	1994 RD IMPROVEMENT	\$6,383.00	1994
	1995	1995 RD IMPROVEMENT	\$17,868.00	1995
	1996	1996 RD RESURFACING	\$13,800.00	1997
	1997	1997 RESURFACING	\$13,800.00	1997
	1998	1998 RESURFACING	\$13,800.00	2000
	1999	1999 RESURFACING	\$13,800.00	2000
	2000	KUGLER MILL	\$13,800.00	2001
	2001	HIGH POINT SUBD	\$13,800.00	2002
	2002	2002 RESURFACING	\$15,006.00	2002
	2003	GOLDCOAST, REDSKY, PALACE	\$15,006.00	2004
	2004	GOLDCOAST, REDSKY, PALACE	\$12,983.00	2004
	2005	2005 STREET REHABILITATION	\$14,968.00	2005
	2006	STURBRIDGE SUBDIVISION	\$15,455.00	2008
	2008	2008 STREET RESURFACING	\$29,605.00	2008
	2009	STURBRIDGE SUBDIVISION	\$14,588.00	2009
	2012	STREET REHABILITATION	\$37,571.00	2012
	2016	2016 CURB PROGRAM	\$57,819.00	2016
		SYCAMORE TOTAL:	\$379,095.22	
SYMMES				
	1990	ARNOLD LANE IMPROVEMENT	\$12,910.00	1990
	1991	ARNOLD LN IMPROVE, ADD'L ENGR	\$7,975.00	1991
	1992	EMERGENCY SIGNAL	\$3,900.00	1992
	1994	SHORE DR REPAIR	\$9,800.00	1994
	1996	SALT DOME	\$80,495.54	1996
	2005	SALT DOME	\$60,000.00	2006
	2013	2013 RESURFACING	\$54,286.00	2013
	2016	2016 ROAD RESURFACING	\$31,062.00	2016
		SYMMES TOTAL:	\$260,428.54	
WHITEWATER				
	1995	MIAMITOWN STORM SEWER & RESURF	\$30,000.00	1995
	1997	FURLONG DRIVE	\$10,000.00	1997
	2000	LUTHER LANE	\$15,696.00	2001
	2014	MIAMITOWN STREETS REHABILITATION	\$68,036.00	2001
		WHITEWATER TOTAL:	\$123,732.00	
TOTAL TOWNSHIP EXPENDITURES TO DATE:			\$5,335,819.09	

TOWNSHIP AND COUNTY ENGINEER PROJECT DESCRIPTIONS



FOR PROGRAM YEAR 2017

DISTRICT 2 - HAMILTON COUNTY & TOWNSHIP

2017 Hamilton County Road Projects

Daly Road (Meredith to Hempstead)

Estimated cost: \$790,000. First year of construction. A State Capital Improvement Program (SCIP) grant totaling \$790,000 awarded for this project. Pavement rehabilitation and resurfacing with 2.5" asphalt. Construction of curb and gutter and storm sewer system in 9300 block. Construction commenced summer, 2017 with an anticipated completion date of summer, 2018.

Eight Mile Road (Woodruff Road to 150 Feet North of Beechmont Avenue)

Estimated cost: \$681,000. First year of construction. A SCIP loan totaling \$681,000 awarded for this project. Pavement rehabilitation and resurfacing with 3" asphalt. Replacement of asphalt curb, with extruded concrete curb. Construction of storm water infrastructure between Woodruff and Forest Roads. Construction commenced fall, 2017 with an anticipated completion date of fall, 2018.

Meredith Road (Hamilton Avenue to Daley Road)

Estimated cost: \$3,395,805. A SCIP grant totaling \$3,147,000 awarded for this project. Complete reconstruction of the pavement and curb. Construction commenced fall, 2016 and project completed in summer, 2017.

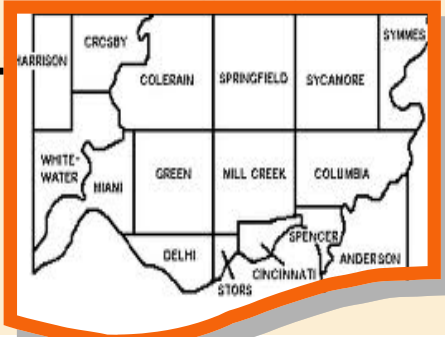
Pippin Road (Sprindale to Compton Road)

Estimated cost: \$3,230,390. Final year of construction. Grant funding totaling \$3,638,854 awarded for this project. This included an STP grant of \$2,500,000 and an LTIP grant of \$1,138,854. First phase of Pippin Road Improvements. Pavement rehabilitation and resurfacing with 3" asphalt. Curb and enclosed drainage system constructed replacing the roadside ditch drainage system in place. Widening of the pavement to construct turn lanes at Cornwall Drive, Glenaire Drive, Adams Road, Hyannis Drive, and Brampton Drive. Widening of all 11' lanes to 14'. Replacement of the existing asphalt sidewalk with concrete walk. Widening for additional storage capacity for left turn lanes at Springdale Road, and for the right turn lane at North Compton. Replacement of traffic signals to permit protected left turn movement for all approaches at Springdale Road. Construction commenced in summer, 2016 and Project completed fall, 2017.

Pippin Road (Compton Road to Galbraith Road)

Estimated cost: \$2,997,440. Final year of construction. Grant funding totaling \$2,150,000 awarded for this project. This includes an STP grant of \$1,250,000 and an LTIP grant of \$900,000. Construction commenced summer, 2017 with an anticipated completion date of fall, 2018.

TOWNSHIP AND COUNTY ENGINEER PROJECT DESCRIPTIONS



FOR PROGRAM YEAR 2017—CONTINUED

DISTRICT 2 - HAMILTON COUNTY & TOWNSHIP

2017 Hamilton County Road Projects –Continued

Pippin Road (Compton Road to Galbraith Road)

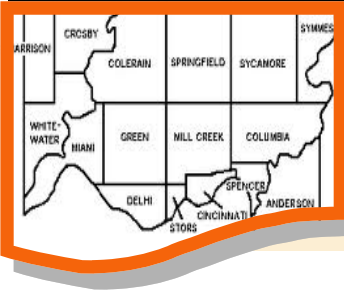
Estimated cost: \$2,997,440 First year of construction. Grant funding totaling \$2,150,000 awarded for this project. This includes an STP grant of \$1,250,000 and an LTIP grant of \$900,000. This is the Second Phase of Pippin Road Improvements. Pavement rehabilitation and resurfacing with 3" asphalt. The pavement and shoulder/embankment are to be reconstructed in a 300' area in the 8800 block. Super-elevation of the roadway and installation of an open-faced friction course of asphalt in a 1,200' long area of curved roadway north of Mercury Drive. Construction of 11,000 of new curb and replacement of existing storm sewer and the construction of an additional 2,500' of new storm sewer. Addition of turn lanes for Dolphin & Neptune Drives and Mercury Avenue. Construction commenced summer, 2017 with an anticipated completion date for fall, 2018.

Shady Lane Drainage

Estimated cost: \$50,000. Drainage improvement. Construction to commence spring, 2018 with completion date set for fall, 2018.

Winton Road (Fleming to Sarbrook Drive)

Estimated cost: \$1,850,000 First year of construction. Grant funding totaling \$3,199,690 awarded for this project. This includes an STP grant of \$2,844,173 and an LTIP grant of \$355,520. Widening to accommodate the construction of a dual left-turn lane beginning approximately 200' north of the intersection with Fleming and continuing northward throughout the project limits. Left turn lane to be installed at the entrance to the Powell/Crosley YMCA. Sidewalk will be reconstructed 50% wider than that in place at this time, and will be integrated into the back of curb. Pavement repair including substantial full & partial depth repairs to the base & sub-base, curb reconstruction, repair of existing storm water inlets and pipe; construction of new storm water inlets and pipe in widening area. Upon completion repair items, the entire project areas will be resurfaced with of 3" asphalt, and the replacement of the existing traffic signals at the intersection at Fleming. Construction to commence in spring 2018 with an anticipated completion date in late spring, 2018.



PROJECT DESCRIPTIONS FOR 2017

HAMILTON COUNTY ENGINEER'S OFFICE

2017 Township and County Partnership -

Hamilton County & Colerain Township (Sidewalk)

Blue Rock and Cheviot Road (Benhill to Nandale)

Estimated cost: \$3,056,625. Grant funding totaling \$2,148,000 awarded for this project. This included a Surface Transportation Program (STP) grant of \$3,144,000 and a Local Transportation Improvement Program (LTIP) grant of \$786,000. Widening and reconfiguration of existing lanes to improvement alignment and operation, including the relocation of the western leg of Blue Rock at Cheviot to permit left-turn movement for motorists, which had been prohibited. Pavement rehabilitation and resurfacing with 2.5" asphalt. Sidewalk constructed within project limits. Construction commenced fall, 2016. Project completed summer, 2017.

Hamilton County & Warren County Engineer's Office

Fields Ertel & Lebanon Roads Intersection

Estimated Cost: \$2,000,000. An LTIP grant totaling \$517,500 awarded for this project. The project replaces a four-way stop intersection with a roundabout to reduce congestion at a.m. and p.m. peaks. Construction commenced spring, 2017 with Project completion in summer, 2017.

2017 Township & County Projects

2017 Hamilton County Bridge & Slide

Cleves Warsaw Slide Repair (Western Intersection with Upper Road)

Estimated cost: \$105,527. An Emergency Ohio Public Works Commission grant (\$60,000) awarded for this project. Stabilization of the road shoulder with the installation of a 24" & 30" drilled piles and concrete grade beams. Reconstruction of pavement within affected area.

Construction commenced Spring, 2017 and project was completed Fall, 2017.

John Gray Road Bridge 0135

Financial partnership with City of Fairfield Estimated cost: \$389,232. Replacement of existing structure. Construction commenced in spring, 2017 and project to be completed in fall, 2018.

Sheed Road Bridge 0257

Estimated cost: \$482,156. Replacement of existing structure. Construction commenced in spring, 2017 and was completed fall, 2017.



PROJECT DESCRIPTIONS FOR 2017

HAMILTON COUNTY ENGINEER'S OFFICE

2017 Township & County Projects –continued

2017 Hamilton County Pavement Resurfacing

Anderson Township

\$1,000,000 contribution from Anderson Township Board of Trustees for the resurfacing of Kellogg Avenue. Clough Pike Pavement resurfacing at SR 32 to 5480 Clough Pike, Bridge 0227 to State Road, Eight Mile Road to Clermont County Corporation. Resurfacing Five Mile Road near Ayers Road, at Kellogg Avenue, and at Bridge 0087. Resurfacing State Road from Clough Road to Wittmeyer Drive. Resurfacing on Turpin Lane from State Route 32 to Ragland Road.

Colerain Township

Pavement resurfacing Springdale Road from Colerain Avenue to Season Drive.

Delhi Township

Addition to Delhi Township resurfacing contract (HCE funded). Pavement resurfacing Hillside Avenue from Bender Road to Cincinnati Corporation Line West. Resurfacing of Martini Road from Rapid Run Road to Terminus.

HCE Standalone

Pavement resurfacing of Anderson Ferry Road from Palisades Drive to Cincinnati Corporation Line.

Green Township

Pavement resurfacing of Powner Road from Bridgetown Road to Powner Farm Drive and from Taylor Road to Bluebird Drive.

Harrison Township

Pavement resurfacing from New Biddinger Road from Carolina Trace to Butler County Corporation Line.

Springfield Township

Pavement resurfacing from Compton Road from Vine Street to City of Wyoming Corporation Line. Pavement resurfacing Daly Road from Meredith Road to Southshore Drive.

Symmes Township

Addition to Symmes Township resurfacing contract (HCE funded). Pavement resurfacing Cunningham Road from State Route 126 to Village of Indian Hill Corporation Line.



PROJECTED 2018 AND 2019



ROADWAY PROJECTS

<u>PROJECTS 2018</u>	<u>DESCRIPTIONS</u>	<u>ESTIMATE</u>
Resurfacing Program	Resurfacing Various Roadways	\$2,000,000
Eight Mile Road (Woodruff to Beechmont) Second Year of Funding	Resurfacing & Rehabilitation Improvement	\$655,463
Harrison Road (200 feet east of Dry Fork to east Jct. with West) and West Road (City of Harrison Corp. Limit to east Jct with Harrison Road)	Resurfacing & Rehabilitation Improvement	\$3,819,600
Westwood Northern Blvd (Harrison to North Bend), Final Year Funding (Includes School Section from Westwood Northern to Harrison) (Includes Washington Ave. from Westwood Northern to Green Twp.) (Includes Race Road Bridge Overpass (B -0060))	Resurfacing & Rehabilitation Improvement	\$2,594,901
Cheviot Road (North Bend Road to Jessup Road)	Widening & Rehabilitation Improvement	\$3,100,000
Fields Ertel Road and McCauley Road Intersection Area	Engineering	\$300,000
Fields Ertel Road and Conrey Road Intersection Area	Engineering	\$300,000
Fields Ertel Road and Butler Warren Road Intersection Area	Engineering	\$300,000
Pippin Road (Galbraith to Compton), Final Year of Funding	Widening & Rehabilitation Improvement	\$2,997,438
Shady Lane Road Drainage Project	Drainage Improvement	\$50,000
Sycamore Road (Plainfield to Kenwood), Initial Year of Funding	Widening & Rehabilitation Improvement	\$2,865,202
Winton Road (Sarbrook to Greenhills Corp. Line) (Includes resurfacing of Lake View Sub. Springfield Twp.) Second Year of Funding	Resurfacing & Rehabilitation Improvement	\$1,381,346
Winton Road (Fleming to Sarbrook)	Widening & Rehabilitation Improvement	\$3,700,000
Geotechnical Engineering & Testing	Engineering	\$200,000
<u>SUBTOTAL 2018</u>		<u>\$24,263,950</u>
<u>PROJECTS 2019</u>	<u>DESCRIPTIONS</u>	<u>ESTIMATE</u>
Resurfacing Program	Resurfacing Various Roadways	\$2,000,000
Bridgetown Road and Shady Lane Road	Roundabout Intersection Improvement	\$2,000,000
Fields Ertel Road Intersection Improvements, Initial Funding	Intersection Improvement	\$2,000,000
Harrison Road (Wesselman to East Junction with Filview)	Resurfacing & Rehabilitation Improvement	\$6,507,351
Kemper Road (from Lick to Forest Park Corp Line)	Resurfacing & Rehabilitation Improvement	\$2,125,000
Kugler Mill Road (Blue Ash to Montgomery)	Widening & Rehabilitation Improvement	\$3,500,000
Sycamore Road (Plainfield to Kenwood), Final Year of Funding	Widening & Rehabilitation Improvement	\$2,865,202
Geotechnical Engineering & Testing	Engineering	\$200,000
<u>SUBTOTAL 2019</u>		<u>\$21,197,553</u>
<u>TOTAL AMOUNT (2018 & 2019)</u>		<u>\$45,461,503</u>
Projects projected are dependent upon available financial leveraging to secure the needed funding.		



PROJECTED 2018 AND 2019 BRIDGE AND SLIDE PROJECTS



PROJECTS 2018

DESCRIPTIONS

ESTIMATE

Bridge Maintenance	Repair	\$250,000
Atherton Road (B-0093)	Replacement	\$900,000
Fields Ertel Road Bridge (SHA-0067)	Rehabilitation	\$98,000
Keller Road Bridge (INH-0106)	Engineering	\$100,000
Rapid Run Road Bridge (B-0238)	Engineering	\$100,000
Sharon Road Bridge (GLE-0514)	Replacement	\$425,000
Sheed Road Bridge (B-0203)	Engineering	\$100,000
Turpin Road Bridge (B-0032)	Replacement	\$250,000
Winton Road Bridge Rehab (B-0673)	Rehabilitation	\$780,000
Hillside Road Slide	Slide & Drainage Correction	\$391,765
Western Hills Viaduct TRAC Local Match	Engineering & Right of Way	\$250,000
Van Blaricum Road Slide	Slide & Drainage Correction	\$1,200,000
<u>SUBTOTAL 2018</u>		<u>\$4,844,765</u>

PROJECTS 2019

DESCRIPTIONS

ESTIMATE

Bridge Maintenance	Repair	\$250,000
Cleves Warsaw Road Bridge (B-0011)	Rehabilitation	\$70,000
Jordan Road Bridge (B-0041)	Replacement	\$450,000
Kennedy Avenue Bridge (Bridge 11 Cincinnati)	Replacement	\$3,064,000
Rapid Run Road Bridge (B-0238)	Replacement	\$500,000
Riddle Road Bridge (WOO-0098)	Replacement	\$1,250,000
Sheed Road Bridge (B-0203)	Replacement	\$400,000
Asbury Road Slide	Engineering & Slide Correction	\$235,000
Summit Road Slide	Slide Correction	\$210,000
Western Hills Viaduct TRAC Local Match	Engineering & Right of Way	\$250,000
<u>SUBTOTAL 2019</u>		<u>\$6,679,000</u>
<u>TOTAL AMOUNT (2018 & 2019)</u>		<u>\$11,523,765</u>

Projects projected are dependent upon available financial leveraging to secure the needed funding.

2017 COUNTY ROAD AND BRIDGE IMPROVEMENTS

PROJECT NAME	CONTRACTOR	AWARDED BID AMOUNT	LOCAL MATCH
Resurfacing	J R Jurgensen	\$1,385,938	\$1,385,938
Kellogg Road and Turpin Road Resurfacing	J R Jurgensen	\$1,129,553	\$326,513
Cunningham Resurfacing	Barrett Paving (Symmes Township Bid)	\$30,000	\$30,000
Daly Road Resurfacing (Cincinnati Corp. to Meredith Incl Hempstead)	Prus Construction	\$2,530,654	\$885,168
Eight Mile Road Resurfacing, Part 1 of 2	J R Jurgensen	\$655,463	\$655,463
John Gray Road Resurfacing	J R Jurgensen	\$559,731	\$313,449
Martini Road Resurfacing	Barrett Paving (Delhi Township Bid)	\$164,000	\$164,000
Westwood Northern Blvd. Resurfacing (North Bend to Harrison) (Includes School Section, Washington and Race Road Bridge Rehab)	Barrett Paving	\$2,594,901	\$939,298
Fields Ertel, Columbia and Lebanon Roundabout Part 2 of 2	Barrett Paving (Warren County Bid)	\$585,981	\$585,981
Meredith Road Rehabilitation (Hamilton to Daly) Part 2 of 2	Adleta Construction	\$2,022,476	\$808,991
Pippin Road (Compton to Springdale) Part 2 of 2	Rack and Ballauer Excavating	\$3,230,392	\$1,160,965
Pippin Road (Galbraith to Compton) Part 1 of 2	Sunesis Construction	\$2,997,438	\$848,207
Winton Road (Sarbrook to Greenhills Corp) Part 1 of 2 (Includes Lakewiew Subdivision Resurfacing)	Rack and Ballauer Excavating	\$1,381,346	\$1,061,772
Galbraith Road Bridge (AHT-0092)	Sunesis Construction	\$1,431,428	\$452,117
Pfeiffer Road Bridge (MON-0071)	Sunesis Construction	\$615,670	\$123,134
Sheed Road (B-0257)	Smith Construction (06/29/17)	\$482,156	\$482,156
Cleves Warsaw Emergency Slide	Scherzinger Drilling	\$105,527	\$52,764
Subtotal		\$21,902,654	\$10,275,916

Continued on Next Page

2017 COUNTY ROAD AND BRIDGE IMPROVEMENTS –Continued

2017 TOWNSHIP 20% FUND PROJECTS

PROJECT NAME	TOWNSHIP	PROJECT COST	20% LOCAL MATCH
2017 Street Rehabilitation	Delhi	\$1,163,980	\$18,183
2017 Street Rehabilitation	Green	\$1,600,000	\$82,560
Pavement Preservation Project	Springfield	\$23,246	\$23,246
Subtotal		\$2,787,226	\$123,989

2017 MUNICIPAL ROAD FUND (MRF) SUPPORTED PROJECTS

PROJECT NAME	MUNICIPALITY	PROJECT COST	MRF LOCAL MATCH
Annual Bridge Maintenance Program	Cincinnati	\$1,000,000	\$1,000,000
Westwood Northern Boulevard	Cheviot	\$1,463,000	\$146,300
State Route 32 Storm Water	Newtown	\$430,000	\$64,500
Western Hill Viaduct TRAC Local Match Part 1 of 2	Cincinnati	\$6,250,000	\$250,000
Shawnee Run Culvert	Indian Hill	\$332,656	\$166,328
Vine Street	Elmwood Place	\$228,500	\$42,935
Losanativille Road	Golf Manor	\$818,328	\$32,733
Loveland Madeira Road Storm Sewer	Loveland	\$573,900	\$115,000
West Kemper Road	Forest Park	\$59,040	\$11,700
West Kemper Road	Springdale	\$319,573	\$63,300
Miami Avenue	Cleves	\$520,000	\$121,000
Sharon Road Bridge	Glendale	\$465,000	\$40,500
Subtotal		\$12,459,997	\$2,054,296
<u>Grand Total of Project Activity</u>		<u>\$37,149,877</u>	<u>\$12,454,201</u>

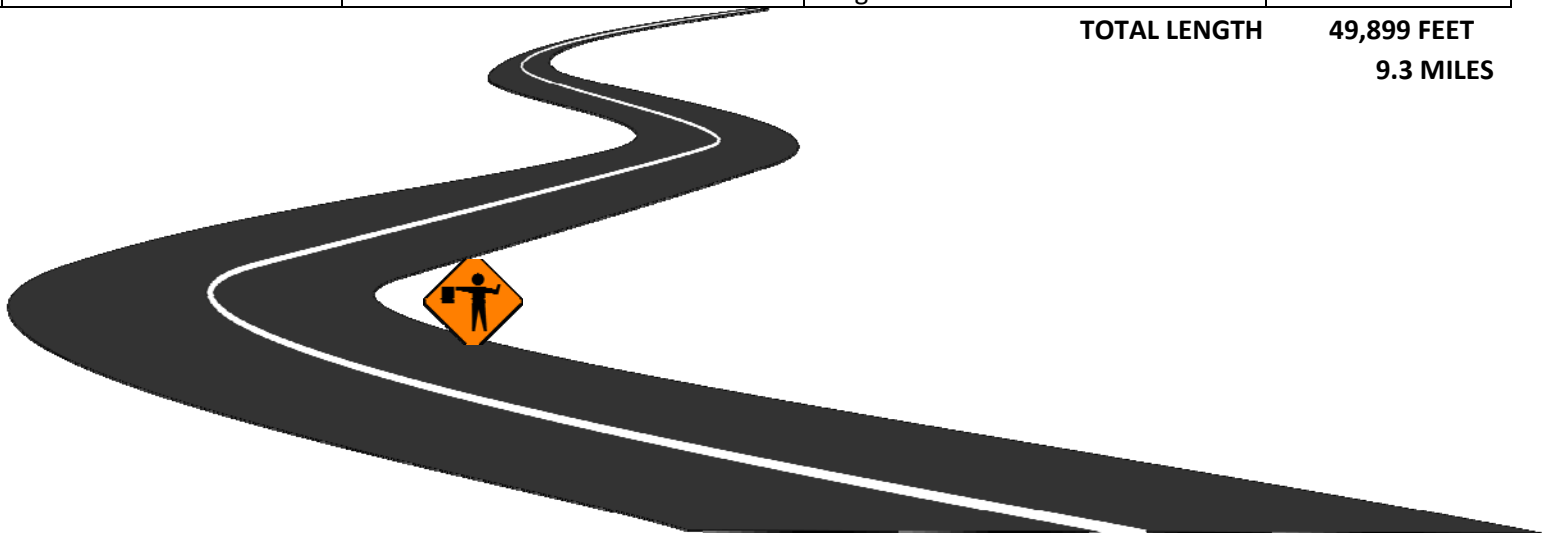


2017 Paving

The County Engineer, as part of an ongoing roadway maintenance program, has performed resurfacing on the following list of roads. Included on this list are roads that were paved by utility companies, such as Duke Energy and Greater Cincinnati Water Works, as part of the pavement restoration requirements for new main installations in the roadway. As part of the resurfacing an attempt is made to install paved shoulder wherever possible. The length of roadways improved in 2017 totals 9.3 miles.

Road Name	From	To	Length
Springdale Road	Colerain Avenue	Season Drive	4754
New Biddinger Road	Carolina Trace Road (North)	Butler County Corporation	7338
Five Mile Road	Kellogg Avenue	271 Five Mile Drive	671
Five Mile Road	B-0087	7090 Five Mile Drive	4267
Five Mile Road	7131 Five Mile Road	Ayers Road	788
Clough Pike	SR 32	5480 Clough Pike	1902
Clough Pike	B-0227	State Road	2053
Clough Pike	Eight Mile Road	Clermont County Corporation	3183
State	Clough Pike	Wittmeyer Drive	1563
Turpin Road	SR 32	Ragland Road	2400
Meredith Drive	Hamilton Avenue	Daly Road	6234
Daly Road	Meredith Drive	Southshore Drive	6030
Martini Road	Rapid Run Road	Dead End	2944
Hillside Drive	Bender Road	Cincinnati Corporation	1100
Anderson Ferry Road	Cincinnati Corporation	Palisades Drive	1432
Powner Road	Taylor Road	Bluebird Drive	1343
Powner Road	Powner Farm Drive	Bridgetown Road	987

**TOTAL LENGTH 49,899 FEET
9.3 MILES**



HAVE YOU SEEN US LATELY? The odds are "Yes"!

Hamilton County residents interact almost every day with the Storm Water District and may not be aware of it, but we are everywhere! You've probably seen our signs, watched our ads, or interacted with our very talented staff. We pride ourselves in serving our residents and communities and want to take this opportunity to tell you about us and all things we accomplished in 2017 on your behalf.

Who We Are?

The Hamilton County Storm Water District was established in response to the federally mandated Phase II storm water program. The Ohio EPA issues the National Pollutant Discharge Elimination System (NPDES) general permit for this program that authorizes the discharge of storm water. The partner agencies in the Storm Water District are the Hamilton County Engineers, Hamilton County Soil & Water Conservation District, Hamilton County Public Health, Hamilton County Planning & Development, and Metropolitan Sewer District. The Storm Water

District represents Hamilton County's commitment to storm water issues.



Accomplishments During 2017!

The permit requires us to implement six control measures designed to improve storm water.



Six Minimum Control Measures	Meeting and Exceeding the Measures
1. Public Education & Outreach	The District gave 367 presentations on water related issues to 9,125 students and teachers.
2. Public Involvement & Participation	The District was involved in more than 100 public events targeting multiple audiences.
3. Illicit Discharge Detection & Elimination	The District screened 27 outfalls for illicit discharges, investigated illicit discharges at 13 outfalls, and eliminated 3 illicit discharges.
4. Construction Site Storm Water Runoff Control	The District performed 3325 construction site inspections for proper storm water runoff control.
5. Post-Construction Storm Water Management	The District determined that out of the 77 reviewed plans, 17 sites needed post construction storm water management.
6. Good Housekeeping & Pollution Prevention	The District provided 32 good housekeeping and pollution prevention training sessions for 284 municipal and township staff.



For More Information Contact:
Hamilton County Storm Water District
138 East Court Street Room 700 CAB
Cincinnati, Ohio 45202
www.hcswd.org | (513) 946-4254

FINANCIAL REPORT

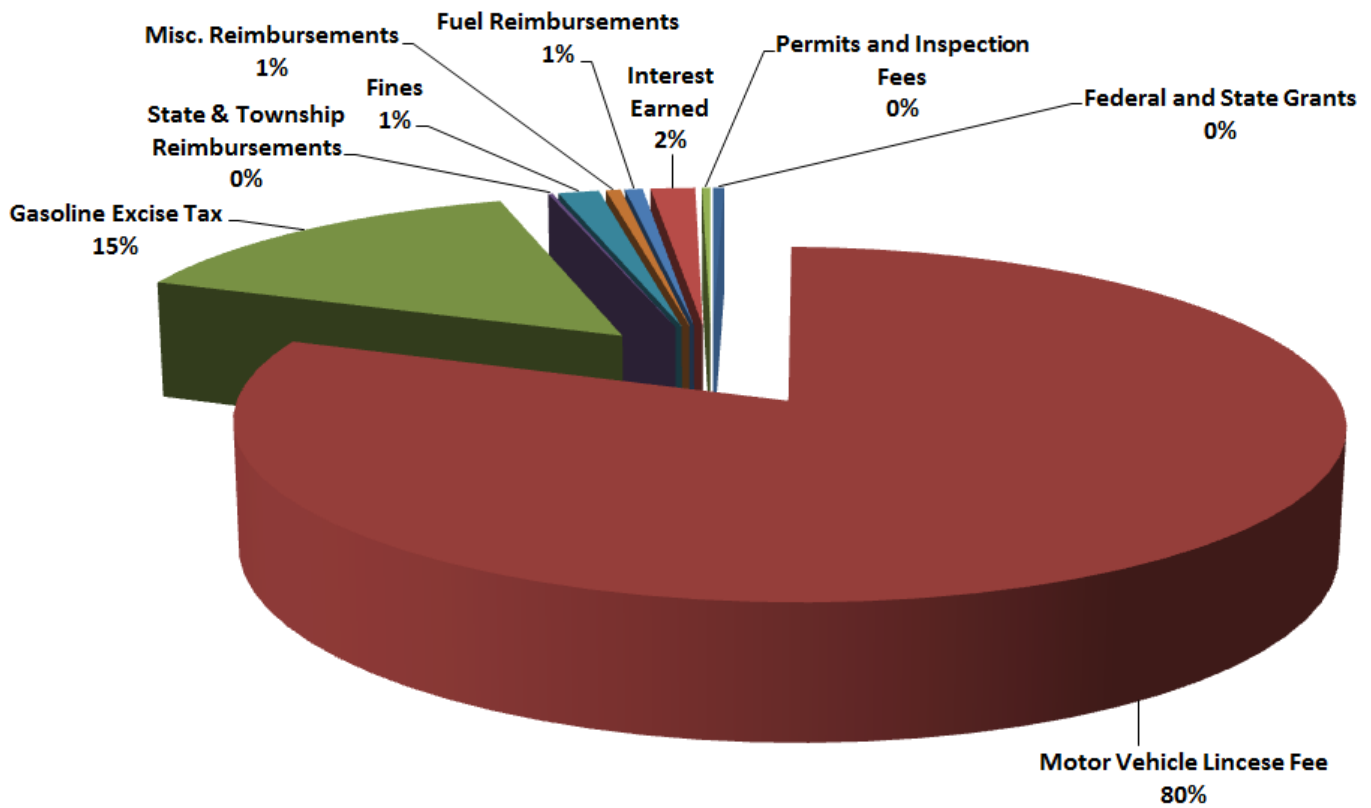
2017

2017 Revenues

<u>2017 REVENUES</u>	<u>Road & Bridges</u>	<u>Other Funds</u>
Federal and State Grants	\$63,538.68	
Motor Vehicle License Fee	13,103,280.16	
Gasoline Excise Tax	2,389,284.77	
State & Township Reimbursements	25,200.36	
Fines	231,777.34	
Miscellaneous Reimbursements	84,696.52	
Fuel Reimbursements	100,623.89	
Interest Earned	252,249.24	
Permits and Inspection Fees	47,900.00	
Stormwater District		\$1,936,952.82
Permissive Auto Tax County Revenues		5,117,144.40
Interest Earned Permissive Auto County		79,160.03
Municipal Road Fund		2,313,837.37
Interest Earned Municipal Road Fund		49,642.45
Rent		5,881.00
Interest Earned Bond Fund County		915.15
SUBTOTALS:	\$16,298,550.96	\$9,503,533.22
		<u>\$25,802,084.18</u>

Financial Report—Continued

2017 Revenues



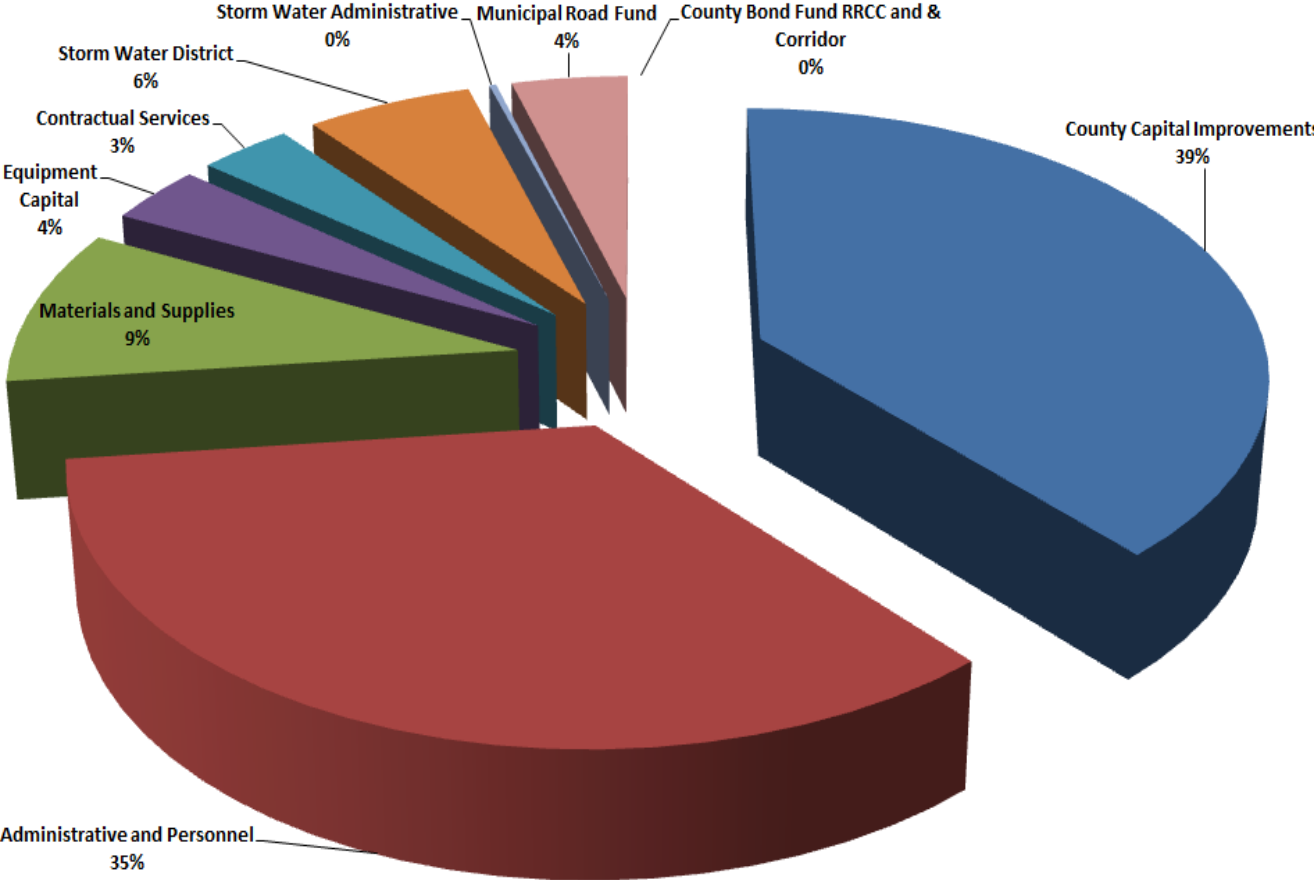
Financial Report—Continued

2017 Expenditures

<u>2017 EXPENDITURES</u>	<u>ROAD & BRIDGE</u>	<u>OTHER FUNDS</u>
County Capital Improvements	\$3,000,000.00	\$7,692,916.17
Administrative	9,559,497.34	
Materials and Supplies	2,596,805.96	
Equipment Capital	975,317.35	
Contractual Services	938,090.58	
Storm Water District		1,683,922.59
Storm Water Administrative		70,140.84
Municipal Road Fund		1,177,570.00
County Bond Fund RRCC and & Corridor		
		<hr/>
SUBTOTALS:	\$17,069,711.23	\$10,624,549.60
		<u>\$27,694,260.83</u>

Financial Report—Continued

2017 Expenditures



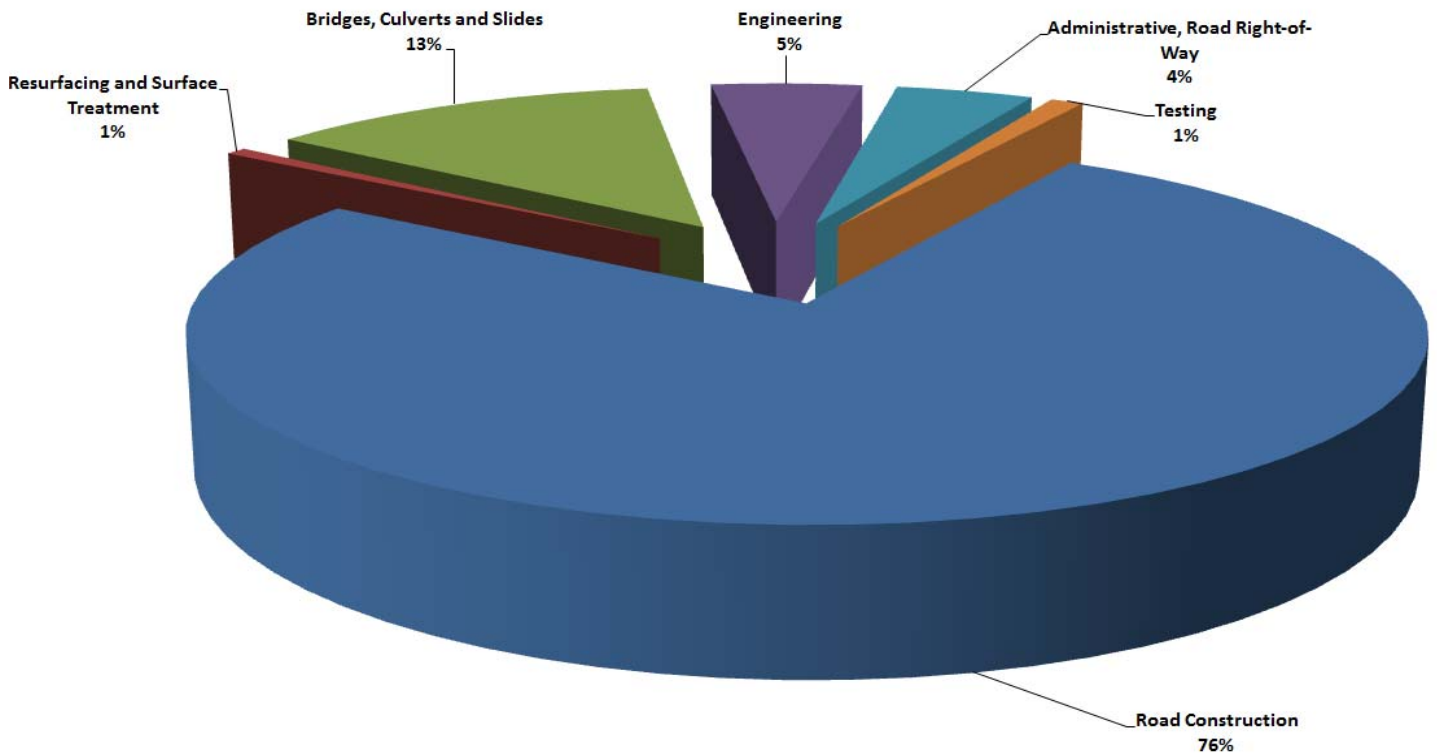
Financial Report—Continued

2017 Local Funds Invested for Capital Improvements

	ROAD & BRIDGE	OTHER FUNDS
Road Construction		\$4,645,437.81
Resurfacing and Surface Treatment	\$1,043,810.19	41,410.32
Bridges, Culverts and Slides		\$79,030.99
Engineering		298,442.35
Administrative, Road Right-of-Way		272,461.55
Testing		65,227.19
	<hr/>	
	\$1,043,810.19	\$6,102,010.21
		<u>\$7,145,820.40</u>

Financial Report—Continued

2017 Local Funds Invested for Capital Improvements



TRAFFIC OPERATION SUMMARY 2017



The Engineer's Traffic Department is responsible for performing traffic studies, which establish "No Parking Zones", "Multi-Way Stop" locations and the "Warrant Analysis" for the signalization of County owned intersections. Any recommendations resulting from these studies are then brought before the Board of County Commissioners who is the sole authority to apply traffic laws (except Speed Limits) in unincorporated areas of Hamilton County.

The Traffic Department also completes the "Speed Warrant Analysis" for roads and, if a change of the existing Speed Limit (lower or higher) can be warranted, the study must first have the Board of County Commissioners approval before being forwarded to the Director of the Ohio Department of Transportation (ODOT). ODOT determines the just and safe speed limit for that road in question and has the sole authority to set Speed Limits on County Roads.

In the process of performing these studies the Traffic Department gathers data that is valuable to the public for other purposes such as manual and mechanical traffic counts. The traffic counts are available on the Engineer's Website. Another is the gathering of the traffic crash reports from the Sheriff's Office and Township Police Departments into a database that can be used to better pinpoint crash locations by intersection, street address, and/or distances from the nearest intersection. Annually the Department will review thousands of traffic crash reports. This can assist in ascertaining current and potential problem areas.

The Traffic Department investigates and reports on numerous requests and complaints generated from various sources such as citizens, businesses, schools, public officials, etc. Also, they are responsible for the review of traffic control plans (signal, striping and/or signing). Other duties include preparing detour plans, sending out News Releases to advise the public of possible closures and delays and the layout of newly resurfaced county roads in preparation for striping.

The Traffic Department's Sign Shop is responsible for the striping and installation of all pavement markings on County Roads. It also has been used by numerous jurisdictions within Hamilton County for the straight-line striping of their roads.

Sign making assists Hamilton County Soil & Water

The Sign shop continues to work with the Hamilton County Soil & Water district by fabricating Stream Crossing Awareness Signs. This saves the district and participating municipalities money by our making them "in house". Previously, these signs were being made by private sign companies at approximately twice the price.

Meeting the New Standard for Sign Retro-reflectivity

The traffic department's sign shop has developed a policy to meet the new standards for sign retroreflectivity as set forth in the Ohio Manual of Uniform Traffic Control Devices (OMUTCD). The county has measured the retro reflectivity of each sign that the county is responsible for, and has determined if the sign meets the minimum reflectivity standards. The county has over 19,000 signs on county roadways, of which have been replaced to meet the standards. With the assistance of grant funding from the state, the County in an effort to reduce accidents on curves is scheduled to install additional curve/chevron signs in 2017.

Traffic Department Information --- Continued

New Traffic Signal Installations in 2017:

Traffic Signal Upgraded with an Uninterruptable Power Supply (UPS):

<u>LOCATION:</u>	<u>TOWNSHIP:</u>
Blue Rock & Banning	Colerain
Blue Rock & Sheed	Colerain
Blue Rock & Springdale Connector	Colerain
Cheviot & Joseph	Colerain
Galbraith & Blue Rock	Colerain
North Bend & Reemelin	Green
Werk & Toy R Us	Green
Werk & Westbourne	Green
Kilby & Suspension Bridge	Whitewater

New Signals Installed as part of Road Improvements:

<u>LOCATION:</u>	<u>TOWNSHIP:</u>
Wolfangel & Bowen	Anderson
Cheviot & Blue Rock North Jct.	Colerain
Cheviot & Blue Rock South Jct.	Colerain
Harrison & Westwood Northern & Lee	Green

New Flir Thermal Detection:

<u>LOCATION:</u>	<u>TOWNSHIP:</u>
Kenwood & Galbraith	Sycamore

New Coordination Timing/Signal Operation Changes:

<u>LOCATION:</u>	<u>TOWNSHIP:</u>
Clough & Bartels	Anderson
Clough & Hunley & Corbly	Anderson
Clough & Berkshire & Goldengate	Anderson

Cities and Townships that were striped in 2017:

City of Cheviot
 City of Harrison
 City of Mt. Healthy
 City of Norwood
 City of Sharonville
 City of Springdale
 Anderson Township
 Delhi Township
 Green Township
 Village of Deer Park
 Village of Glendale

Hamilton County Snow & Ice

2017 LANE MILEAGE MAINTAINED

CENTRAL DIVISION

County Roads	421.85
Other Roads	1.57
Ronald Reagan Highway	81.13
State Routes	143.81

CENTRAL TOTALS: 648.36

EASTERN DIVISION

County Roads	328.42
Other Roads	8.44
Ronald Reagan Highway	34.09
State Routes	181.54

EASTERN TOTALS: 552.49



WESTERN DIVISION

County Roads	519.14
Other Roads	5.81
State Routes	110.13

WESTERN TOTALS : 635.08

LANE MILEAGE TOTALS: 1,835.93



Congratulations to 2017 Snow Rodeo Winners!!

Long before the season changes and snow falls on the roadways, the Hamilton County Engineer held the Annual Snow Rodeo the week of September 19, 2017.

Ted Hubbard, the Hamilton County Engineer, required all drivers to make safe driving a priority, especially during snow and ice conditions. In preparation for winter, this training/competition is held annually to make safe driving a priority **especially** during the snow and ice season.

This event provides the operators a chance to maneuver in tight predicaments that they may encounter while clearing the roadways of snow and ice. After completing the course, drivers are tested on truck maintenance, which includes a pre-trip inspection to be sure all parts of the truck and plow are operating properly.

From Tuesday September 19th, through Thursday, September 21st, 2017, County Engineer Ted Hubbard officiated over his Annual "Snow Rodeo". The Rodeo was held outdoors near the Communications Center on Hamilton Avenue. This event included a timed obstacle course and a vehicle maintenance inspection. While the weather could not provide the drivers with conditions that reflected snow and ice control on the roads, situations could be duplicated that provided the drivers with an opportunity to hone their driving skills. Approximately 183 drivers in total, which included over 60 drivers from the Hamilton County Engineer's department, more than 60 from the Townships, and approximately 50 from the Municipalities participated in response to Mr. Hubbard's invitation.

The Engineer's top drivers also participated and performed in the top 25 of the APWA Southwest Ohio Snow & Ice Conference/ PWOSWO Snow Rodeo held October 11th at the Mason Sports Complex.

Thanks to all who participated....



Joseph Behrend
1st Place Winner



Kerry Kerkhoff
2nd Place Winner



Kris Farmer
3rd Place Winner



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HAMILTON COUNTY ENGINEER**

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