



**WILLIAM W. BRAYSHAW, P.E.- P.S.
HAMILTON COUNTY ENGINEER**

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**HAMILTON COUNTY ENGINEER
WILLIAM W. BRAYSHAW, P.E.-P.S.**

2008 ANNUAL MEETING

County and Township Officials



Miami Township Salt Dome



Cleves Warsaw Bridge



Eastern Pole Barn

**Ted B. Hubbard, P.E.-P.S.
Chief Deputy Engineer**

www.hamilton-co.org/engineer

FEBRUARY 13, 2008



WILLIAM W. BRAYSHAW, P.E.-P.S.
HAMILTON COUNTY ENGINEER

To the County and Township Officials:

Welcome to the annual meeting of County and Township officials. Our common goal is serving the citizens of this County and providing the best possible roadway infrastructure system. This meeting is intended to help attain our common goal by sharing experiences and examining new opportunities to cooperate for the benefit of the traveling public. It is expected that the year 2008 will have unique challenges, as did the year 2007. The key to successfully meeting future challenges is to continue working together as in the past.

This office is always proud to participate with other governmental agencies in the service of the traveling public. Cooperation is the key component in providing a stellar capital improvement program. Leveraging the County Road and Bridge funds with other Federal, State, Township, Municipal and private funding makes expanded capital improvement programs possible. Pooling the available construction funding continues to generate expanded construction programs. The overall 2007 Construction Program with the inclusion of the 20% Fund Program and Municipal Road Fund (MRF) Program is reported to be almost five times as large as the local funding provided from resources administered by the Hamilton County Engineer's Office. It is anticipated that the 2008 Hamilton County Engineer's construction program will continue to aggressively upgrade and improve the road and bridge infrastructure.

The tasks that lie ahead demand that we continue to work together. Ingenuity must be exercised in finding new ways to fund improvement projects that provide relief from gridlock in our urban corridors. Planning and access management must be performed cooperatively so that our urban arterials function at maximum efficiency in order to help support and sustain our local communities. Teamwork must be implemented in a continuing effort to respond to snow and ice, flooding, landslides and other events of nature. It is essential that all governmental entities continue to pursue efficient ways to provide services for the challenges of the future.

Please take a moment to review the displays illustrating our activities of this past year and our goals for the future. Let us all continue in our efforts of making Hamilton County the finest.

The attached report shows the various ways leveraging money has helped our county as a whole. As always, comments or suggestions are welcome.

Very truly yours,



Hamilton County Communications Center is the First in the Nation to Test Next Generation 9-1-1.



The Hamilton County Communications Center's employees receive 9-1-1 calls 24 hours a day, 365 days a year.



**Hamilton
County
Innovates!**

Source: Hello Hamilton County August 15, 2007 edition

Picture this: you witness a crime, and as the perpetrator runs away, you take his photo with your cell phone camera. Using your cell phone, you call 911 and send them the photo. They share the photo with the police, and the perpetrator is caught quickly, partially because of the photo. The Hamilton County Communications Center is participating in a pilot program that can make this kind of scenario a reality.

When 9-1-1 was designed, only traditional home and business telephone lines used its services. Since technology is ever changing, with the addition of things like cellular and wireless phones, automatic crash notification (ACN) and Voice Over IP (VOIP) phones, the time has come for networks to handle the current and newer technologies. This need was illustrated, for example, when students at Columbine High School and at Virginia Tech were frustrated that they couldn't communicate with police using text messaging during the attacks at their schools. With the type of technology involved in the pilot program, that could be possible.

The Hamilton County Communications Center has been selected as the first 9-1-1 center in the nation to be a test site for the implementation of the next generation of 9-1-1 Internet Protocol (IP) based technology that will support wireless telephone text messaging, camera, video and other non-traditional forms of location technology. We are pleased to announce that we have completed the first step to implement this new networking technology.

The Hamilton County Communications Center has partnered with Intrado, a leader in national public safety solutions. The first test call was made on Friday July 20th at 10:26 AM. With successful testing, all wireless and VOIP calls will be delivered to the new network. Eventually all calls will arrive on the new network.

Hamilton County recognizes that being able to respond to requests for service from citizens using these types of devices has the potential to save lives, and participating in this pilot program is the first step towards making that possibility a reality.

CONTACT INFORMATION

HAMILTON COUNTY, STATE OF OHIO

Formed in 1790, Population 2006 Census 822,596, 414 Square Miles, 504.18 County Road Miles, 602.01 Township Road Miles, 12 Townships, City of Cincinnati, and 36 other Municipalities, and over 360,000 parcels of land.

HAMILTON COUNTY ENGINEER WILLIAM W. BRAYSHAW, P.E.-P.S.

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Email: William.Brayshaw@hamilton-co.org

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



General Information	County Administration Building	946-4250
General Information	Burlington Facility	946-8900
Ted B. Hubbard	Chief Deputy Engineer	946-8903
Cathy Listermann	Administrative Secretary	946-8902
Judith Sellmeyer	Office Manager	946-4289
Robert Heidkamp	Deputy Surveyor, GIS, Computer	946-4265
Tim Gilday	Planning & Design Engineer	946-8914
Steve Mary	Bridge Engineer & Highway Maintenance Operations	946-8418
Greg Gelhausen	Fleet Superintendent	946-8409
Eric Beck	Construction Engineer	946-8432
Eric Beck	Permit-Subdivision Inspection	946-4269
Patricia M. Day	Fiscal Officer	946-4255
Joe Disque	Tax Map	946-4259
Aaron Fairbanks	Purchasing Agent II (Downtown)	946-4260
Robin Hopper	Purchasing Agent I (Field Office)	946-8404
Michelle McMullen	Road Records Supervisor	946-4250
Todd Long	Storm Water Management	946-4254
Duane Fuchs	Western Maintenance	946-4969
Mike Roach	Central Maintenance	946-8920
Kirk Music	Eastern Maintenance	946-4979
Tom Langenbrunner	Traffic Supervisor	946-8421
Rick Feller	Sign Shop	946-8415
Jim Howarth	Traffic Signals	946-8412
Gina Stammer	Personnel Office Supervisor	946-4264

Board of County Commissioners	946-4400	Hamilton County Public Health	946-7800
Cincinnati Metropolitan Housing	721-4580	Job & Family Services	946-1000
Community Development	946-8230	Mental Health Board	946-8600
County Administrator	946-4420	Mental Retardation & Developmental	
County Auditor	946-4000	Disabilities Board	794-3300
Building Commissioner	946-4550	Metropolitan Sewer District	244-5500
Clerk of Courts-Auto Title	946-4646	Ohio Kentucky Indiana (OKI)	621-7060
Communications Center	825-2170	Park Board	521-7275
County Prosecutor	946-3000	Public Works	946-4750
Hamilton County Coroner	946-8700	Hamilton County Recorder	946-4600
County Facilities	946-5000	Regional Computer Center	352-6400
County Personnel	946-4700	Regional Planning & Zoning	946-4500
Board of Education	674-4200	Hamilton County Sheriff	946-6400
Board of Elections	632-7000	Soil & Water Conservation	772-7645
Emergency Management	851-7080	Hamilton County Treasurer	946-4800
Environmental Services	946-7777	Veterans Service Commission	946-3300
Animal Shelter (SPCA)	541-6100	Zoning	946-4502

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CONTACT US

We strongly recommend our web site at www.hamilton-co.org/engineer for the latest up-to-date, 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
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Email: hce.webmaster@hamilton-co.org

Hamilton County Facts and Data

GENERAL DATA

Population (2006) 822,596
 State Rank 3rd

Area 414 square miles

Source: Hamilton County Regional Planning Commission

Courthouse elevation 548 Feet
 Highest elevation 1,072 (Rumpke Landfill)
 Lowest elevation 450 Ft. (Ohio River)
 Highest Natural elevation 962 Ft. Water Tower @ North Bend & Colerain

2006 POPULATION

Anderson Twp.	40,986	Harrison Twp.	5,386
Colerain Twp.	56,508	Miami Twp.	11,087
Columbia Twp.	4,411	Springfield Twp.	35,335
Crosby Twp.	2,827	Sycamore Twp.	18,725
Delhi Twp.	29,831	Symmes Twp.	14,236
Green Twp.	56,655	Whitewater Twp.	5,601

TOTAL 281,588

Source: Hamilton County Regional Planning Commission.

West Nile Virus Symptoms

Up to 20% of the people infected with WNV have mild symptoms that can last a few days to several weeks. These symptoms can include:

- Fever, headache, body aches, nausea, vomiting, swollen lymph glands, a skin rash on the chest, stomach, and back.

About one in 150 people infected with WNV will develop severe illness. The severe symptoms may last several weeks and neurological effects may be permanent. Symptoms can include:

- High fever, headache, neck stiffness, stupor, disorientation, coma, tremors, convulsions, muscle weakness, vision loss, numbness, paralysis.

If you experience any of these symptoms, contact your physician for evaluation.



A Health District sanitarian collects mosquitoes from a trap, so the mosquitoes can be tested for the West Nile Virus.

Source: Hello Hamilton County - July 30, 2007

HAMILTON COUNTY MOTOR VEHICLE REGISTRATIONS



TYPE OF REGISTRATION	2006 DISTRICT UNITS*	2006 TOWNSHIP UNITS*	2007 DISTRICT UNITS**	2007 TOWNSHIP UNITS**
Passenger Car	613,382	234,071	594,284	226,871
Motor Homes	2,167	1,021	2,070	986
Motorcycles	15,268	7,198	16,416	7,535
House Vehicles	4,027	2,417	4,083	2,418
Mopeds	119	48	110	37
Non-Commercial Trailer	17,544	9,635	17,298	9,406
Non-Commercial Trucks	66,781	30,114	64,832	29,224
Farm Trucks	254	192	237	179
Buses	1,989	194	2,060	262
Commercial Trailers	12,166	3,877	11,166	3,939
Non IRP Trucks	40,195	11,619	39,838	11,688
IRP Trucks	6,552	1,707	6,410	1,274
Transfers	42,118	15,524	44,169	15,509
Conversions & Add Weight	103	18	123	23
TOTAL REGISTRATION:	822,665	317,635	803,096	309,351

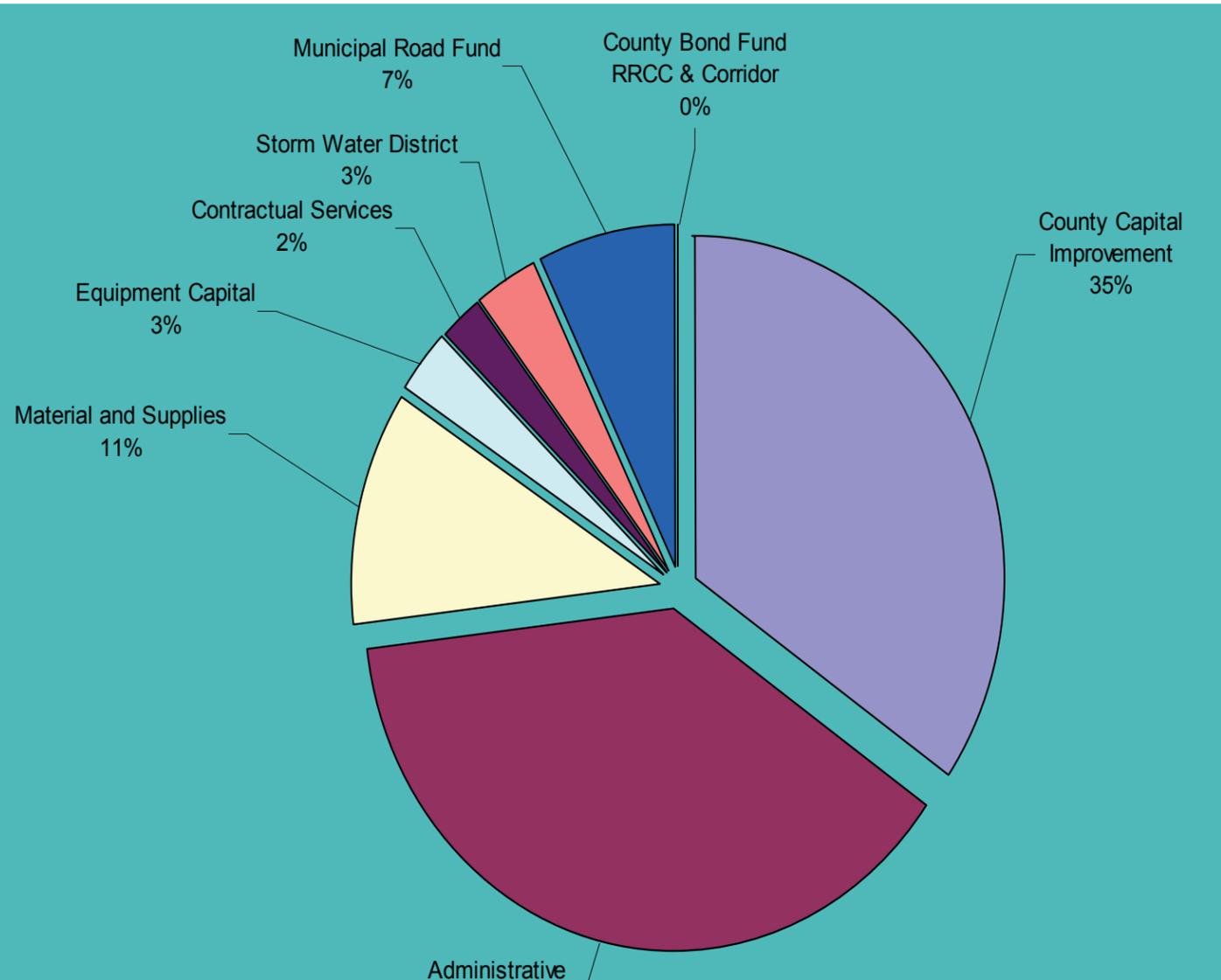
**Source: State of Ohio, Bureau of Motor Vehicles as of Dec 2007

*Source: State of Ohio, Bureau of Motor Vehicles as of Dec 2006

2007 EXPENDITURE

County Capital Improvement	\$9,918,640.24
Administrative	\$11,020,949.83
Material and Supplies	\$3,198,631.46
Equipment Capital	\$828,749.06
Contractual Services	\$682,207.91
Storm Water District	\$951,207.06
Municipal Road Fund	\$2,058,000.00
Bond Fund (City & County)	\$0.00
Total:	\$28,658,385.56

2007 EXPENDITURES



Township Road Mileage

ROAD MILEAGE

County Roads	504.18 miles
Township Roads	602.01 miles

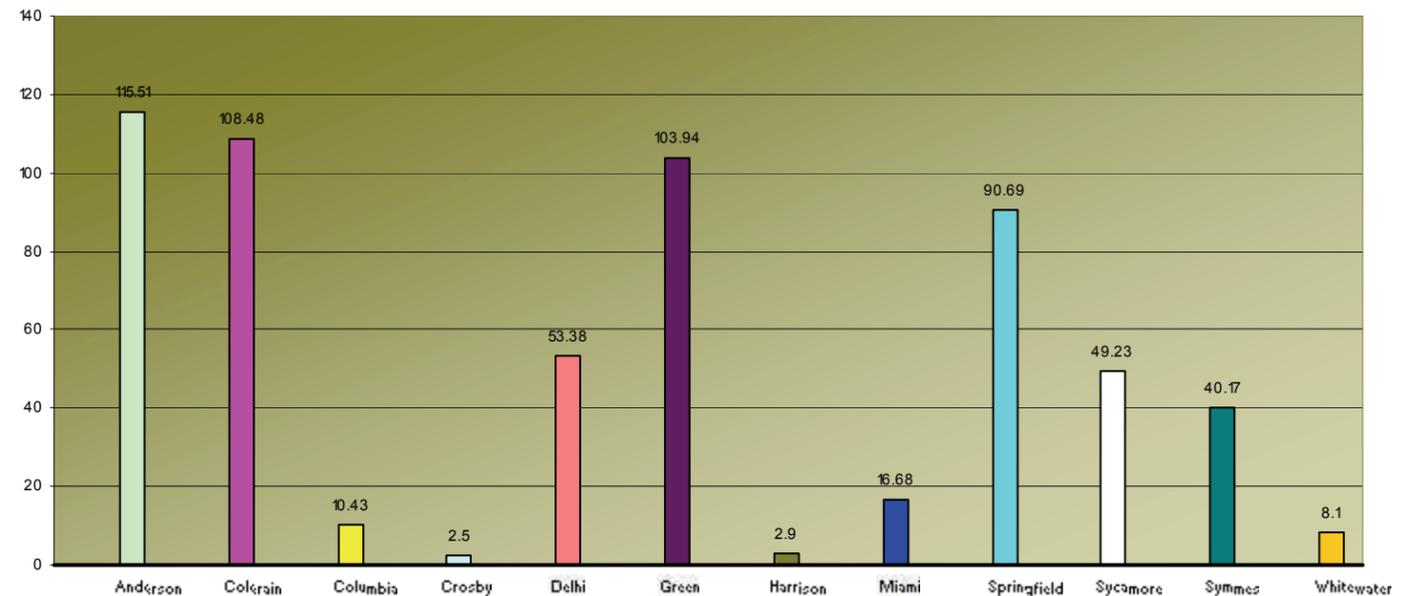
ROAD MILEAGE BY TOWNSHIP

Township	Township Roads
Anderson	115.51
Colerain	108.48
Columbia	10.43
Crosby	2.50
Delhi	53.38
Green	103.94
Harrison	2.90
Miami	16.68
Springfield	90.69
Sycamore	49.23
Symmes	40.17
Whitewater	8.10
Total	602.01



Information available to the public includes:

- 📖 Surveys
- 📖 Field Notes
- 📖 Section Corners
- 📖 Benchmarks (survey monuments with State Plane Coordinates and Elevation)
- 📖 Tax Maps (shows property lines, roads, subdivision names, Book-Page-Parcel)





Hamilton County Storm Water District
 138 East Court Street Room 700 CAB
 Cincinnati, Ohio 45202
 www.hamilton-co.org/stormwater/(513)-946-4254
 email Todd.Long@hamilton-co.org
 Storm Water Hot Line: 946-7000

**HAMILTON COUNTY
 Storm Water District**

History

Since the enactment of the original Clean Water Act by Congress in 1972, local and state governments have worked with industries and wastewater treatment plants to reduce pollution loads thus improving the quality of receiving streams. (As the end-of-pipe pollution sources improved) however; it became apparent that other types of pollutants were having significant impact on the quality of waterways. These nonpoint pollution sources include agricultural runoff (sediment, fertilizers and pesticides), urban runoff, stream channelization, mining, land disposal and construction site runoff. To address these nonpoint sources (NPS) of pollution, the United States Environmental Protection Agency (USEPA) initiated the National Pollution Discharge Elimination System (NPDES) Phase I and Phase II storm water programs.

What is NPS Pollution?

Storm water runoff picks up pollutants from our yards, streets, and agricultural fields and carries them into streams, rivers, and groundwater causing nonpoint source (NPS) pollution. NPS pollution is now responsible for over half of the poor water quality in the United States.

What is the NPDES Phase II Stormwater Permit Program?

The Phase II program is the result of a new USEPA rule that required more than 480 local governments across Ohio to apply for a storm water permit by March 10, 2003. These municipalities were selected based on population density criteria.

Why and How was the Hamilton County Storm Water District Formed?

The County Commissioners established a Storm Water District under Ohio Revised Code 6117 to address the NPDES Phase II regulations and improve storm water quality on a large-scale basis. Forty-two of the forty-nine jurisdictions in Hamilton County joined the district for continuity in water quality regulations as well as for the economic benefits associated with group effort.

Who is responsible for the Storm Water District?

The Hamilton County Engineer administers the overall management of the Storm Water District on behalf of the Hamilton County Board of County Commissioners. The Hamilton County Soil and Water Conservation District, the Department of Public Works, the Metropolitan Sewer District and the General Health District are also responsible for various aspects of the Phase II program in partnership with member jurisdictions. Members of the Storm Water District have an opportunity to provide input at monthly Oversight Board meetings.

(For a complete list of members, please visit the web site:
www.hamilton-co.org/stormwater/oversight_board.htm)

What is the cost of joining the District?

Effective January 1, 2005, the Storm Water Service Fee for the District is established according to the methodology described in the Cost Allocation Plan and summarized as follows:

- (A) The total annual charge for each property shall be determined by multiplying the number of Single Family Units (SFUs) determined for the property times the service fee per year established for the specific member jurisdiction of the District.
- (B) The Service Fee per Year shall be established based upon the specific level of service provided by the District to a member jurisdiction, as follows:
 - (1) For the Base Services provided by the District to all member jurisdictions, the Service Fee per Year shall be \$2.16 per year for each SFU.
 - (2) For jurisdictions that requested additional services from the District, an additional Service Fee shall be imposed each month:
 - (a) Option A: an additional \$1.20 per year for each SFU
 - (b) Option B: an additional \$1.18 per year for each SFU
 - (c) Option C: an additional \$0.32 per year for each SFU
- (C) For each Dwelling Unit, the number of SFUs shall be assigned in the following manner:
 - (1) 1.4 SFUs per year for each single family residential unit with an impervious area larger than 4,540 square feet.
 - (2) 1.0 SFUs per Year for each single family residential unit with an impervious area between 1,630 square feet and 4,540 square feet.
 - (3) 0.5 SFUs per Year for each single family detached residential unit with an impervious area less than 1,630 square feet.
 - (4) 1.0 SFUs per year for each mobile home.
 - (5) 0.5 SFUs for each dwelling unit within a multi-family residential property containing 40 or more dwelling units
 - (6) 0.4 SFUs for each dwelling unit within a duplex, triplex, condominium, and multi-family residential property containing less than 40 dwelling units.
 - (7) For Nonresidential Developed Property, the number of SFUs shall be determined by dividing the Area of Impervious Surface on the property by the average Impervious Area in one (1) SFU, namely 3300 S.F.

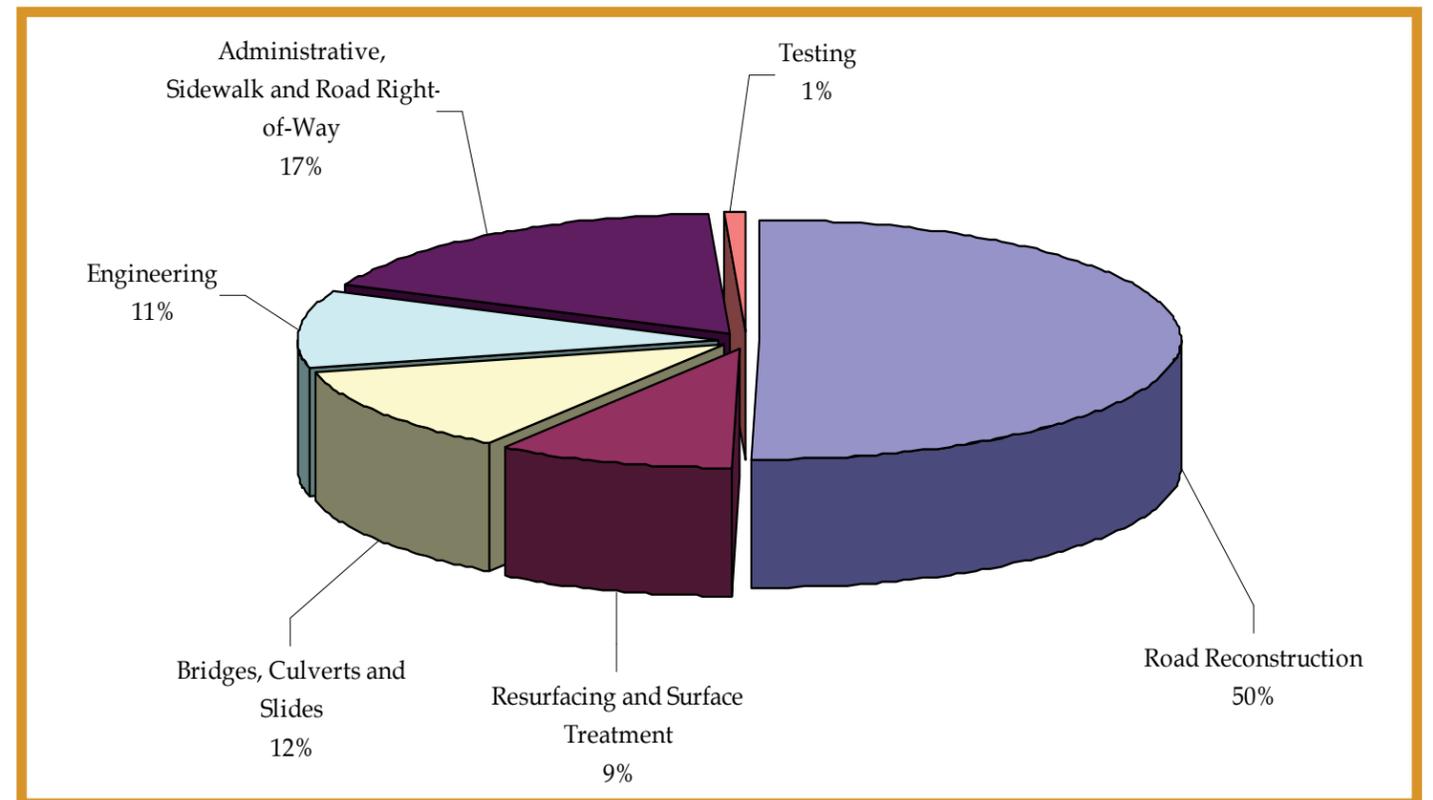
- (D) A member jurisdiction of the District may pay the Storm Water Service fee for all properties within their jurisdiction, as defined and agreed to by the District.

Polluted storm water can be unhealthy for humans and wildlife alike. The Hamilton County Storm Water District is here to help insure we share more than pictures with future generations.

FINANCIAL REPORT—Continued

2007 LOCAL FUNDS INVESTED FOR CAPITAL IMPROVEMENTS

Road Reconstruction	\$4,998,398.68
Resurfacing and Surface Treatment	\$885,320.70
Bridges, Culverts and Slides	\$1,177,530.99
Engineering	\$1,046,020.93
Administrative, Sidewalk and Road Right-of-Way	\$1,727,522.74
Testing	\$83,846.20
Total:	\$9,918,640.24



2007 GRANT TOTALS

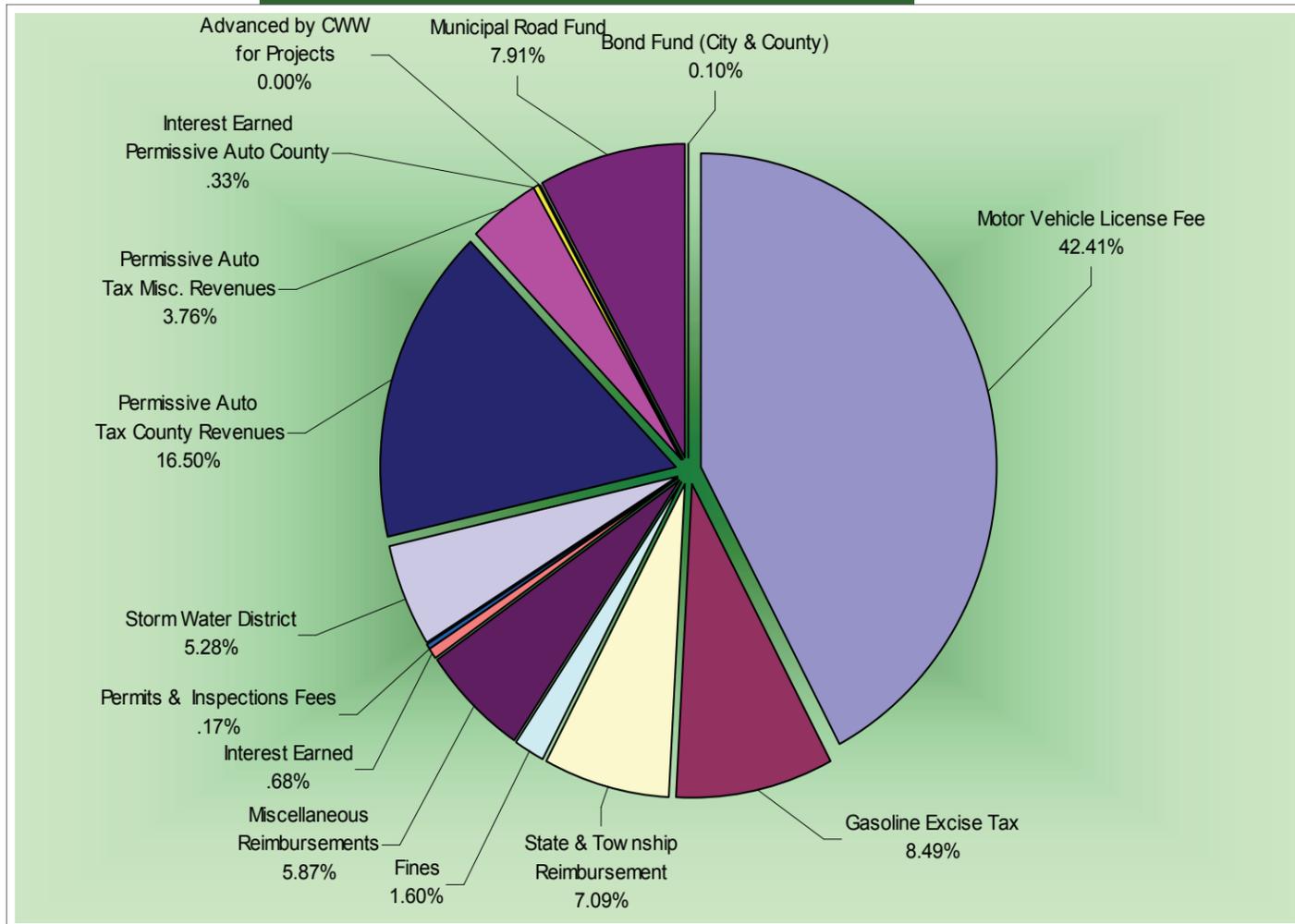
Hamilton County OPWC CBR03	WINTON / PRUS	\$512,145.04
Hamilton County OPWC CB01J	KEMPER / CJL	\$666,341.01
Township Funds	JOBS ADMINISTERED BY COUNTY	\$1,923,158.07
Total:		\$3,101,644.12

FINANCIAL REPORT

2007 REVENUE

Motor Vehicle License Fee	\$12,267,726.68
Gasoline Excise Tax	\$2,468,444.81
State & Township Reimbursement	\$2,061,313.37
Fines	\$464,183.57
Miscellaneous Reimbursements	\$1,706,592.92
Interest Earned	\$198,582.69
Permit & Inspection Fees	\$48,567.00
Storm Water District	\$1,534,773.35
Permissive Auto Tax County Revenues	\$4,795,896.54
Permissive Auto Tax Miscellaneous Revenues	\$1,093,132.36
Interest Earned Permissive Auto County	\$95,279.48
Advanced by Cincinnati Water Works for Projects	\$0.00
Municipal Road Fund	\$2,300,066.97
Bond Fund (City & County)	\$27,731.87
Total:	\$29,062,291.61

2007 REVENUE



LICENSE TAX

The 20% License Tax Program

Each year the County Engineer has distributed a portion (20%) of the License Tax, added in 1989, to the Townships annually. Funding amounts this year are based upon the 2007 Motor Vehicle Registrations (MVR). You are encouraged to leverage these funds with a State Capital Improvement Program, Community Development Program, License Tax 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.

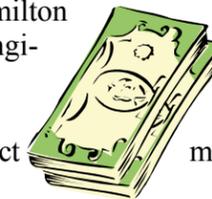
When approved by the Board of Hamilton County Commissioners, the Clerk of the Board issues a Volume and Image number to record the legislation. The townships that have approved projects are sent a letter informing them of the approval.

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 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 2007 annual actual Motor Vehicle Registrations. The County Engineer agreed to this percentage to a maximum expense of \$200,000.00 annually. The Board of Hamilton County Commissioners approves by annual legislation and the Hamilton County Engineer administers the funding.



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.

TOWNSHIP DISTRIBUTION

TOWNSHIP	2007 M V R ANNUAL	2008 PERCENT	2008 YTD MONIES	2007 YTD AWARDED	2008 AVAILABLE
ANDERSON	41,537	14.83%	\$561,573	\$531,382	\$30,191
COLERAIN	57,205	20.42%	\$814,638	\$773,003	\$41,635
COLUMBIA	3,786	1.35%	\$35,376	\$29,970	\$5,406
CROSBY	3,794	1.35%	\$40,640	\$35,224	\$5,416
DELHI	26,740	9.55%	\$389,310	\$373,902	\$15,408
GREEN	56,676	20.23%	\$759,340	\$720,126	\$39,214
HARRISON	5,154	1.84%	\$54,642	\$65,726	\$0.00
MIAMI	10,825	3.86%	\$98,071	\$102,617	\$0.00
SPRINGFIELD	32,401	11.56%	\$450,624	\$426,845	\$23,779
SYCAMORE	20,117	7.18%	\$268,232	\$239,512	\$28,720
SYMMES	14,490	5.17%	\$195,767	\$175,081	\$20,686
WHITEWATER	7,453	2.66%	\$66,336	\$55,696	\$10,640
TOTALS:	280,178	100.000%	\$3,733,412	\$3,529,084	\$221,095

Traffic Department Information --- Continued

New Traffic Signal Installations in 2007:

<u>Location:</u>	<u>Township:</u>
Delhi & Mt. Alverno	Delhi Township
Harrison & Lowe's	Green Township

New LED Traffic Signals & Controllers as part of Construction:

<u>Location:</u>	<u>Township:</u>
Cheviot & Hubble	Green Township
Snider & Cornell	Sycamore/Symmes

Traffic Signal Upgraded with a 170 Controller:

<u>Location:</u>	<u>Township:</u>
Delhi & Glen Oaks	Delhi Township
North Bend & Sprucewood	Green Township

LED INSTALLATIONS COMPLETED IN 2007

Anderson Township:

Five Mile & Nimitzview

Colerain Township:

Galbraith & Pippin
 Livingston & Blue Meadow
 Pippin & Banning
 Pippin & Houston
 Pippin & Kemper
 Pippin & Niagara
 Pippin & Struble

Delhi Township:

Anderson Ferry & Rapid Run
 Delhi & Biggs
 Delhi & Glen Oaks
 Delhi & Neeb
 Foley & Covedale
 Foley & Greenwell
 Pedretti & Fehr
 Pedretti & Mt. Alverno
 Rapid Run & Neeb
 St. Dominic School

Green Township:

Lawrence & Moonridge
 Neeb Road 500' South of Sidney
 North Bend & Cheviot
 Sidney & Sylved
 Werk & Ebenezer

*Hamilton County Engineer's Office
 TRAFFIC DEPARTMENT*

There were 530 miles of county road striped, and 156 traffic signals along with 33 flashers and 38 school zones maintained. Delhi, Symmes and Springfield Townships along with Addyston, Cleves, Greenhills and the Village of North Bend. The City of Cheviot, Harrison, Madeira, Springdale and St. Bernard, Woodlawn and Wyoming were also assisted with striping in 2007.

Springfield Township:

Daly & Meredith
 John Gray-1000' West of Mill

Sycamore Township:

Galbraith & Lancewood
 Fields Ertel & Mc Cauly
 Kemper & Solzman Fire Station
 Kenwood & Kugler Mill
 Kenwood & Plaza, St. Vincent
 Kenwood & Orchard
 Plainfield & Donna, Myrtle

Symmes Township:

Fields Ertel & Mason Montgomery
 Fields Ertel & Union Cemetery
 Fields Ertel & Lebanon
 Fields Ertel & Waterstone

Traffic Department Information



TRAFFIC OPERATION SUMMARY 2007

The Engineer's Traffic Department is responsible for performing traffic studies which establish No Parking Zones, Signalizing Intersections and Stop Sign locations. These studies are then brought before the Board of County Commissioners who are the sole authority to apply traffic laws (except Speed Limits) in unincorporated areas of Hamilton County. A study to establish a Speed Limit on a road in an unincorporated area of Hamilton County is submitted to the Director of the Ohio Department of Transportation. ODOT has sole authority to set speed limits on county roads.

In the process of performing these studies, we gather data which is valuable to the public for other purposes. One tool used is the traffic crash analysis database, which contains information from traffic crash reports. These number nearly 10,000 annually. Those reports are then further investigated for additional information, which is used to better pinpoint crash locations such as street addresses and distances to nearest intersections. This can assist in ascertaining current and potential problem areas. The Traffic Department investigates and reports on over 350 requests and complaints generated from various sources such as Citizens, Businesses, Schools, Public Officials, Police and Fire, etc. They also review traffic control plans (signal, striping & signing). The Traffic Department produces numerous detour plans for Road Closures and sends out News Releases. They mark newly resurfaced county roads in preparation for striping.

The Traffic Department has also conducted 756 Signal Inspections (Quarterly Cycle) and 170 Conflict Monitor Tests were performed and the necessary repairs were made to insure proper operation.

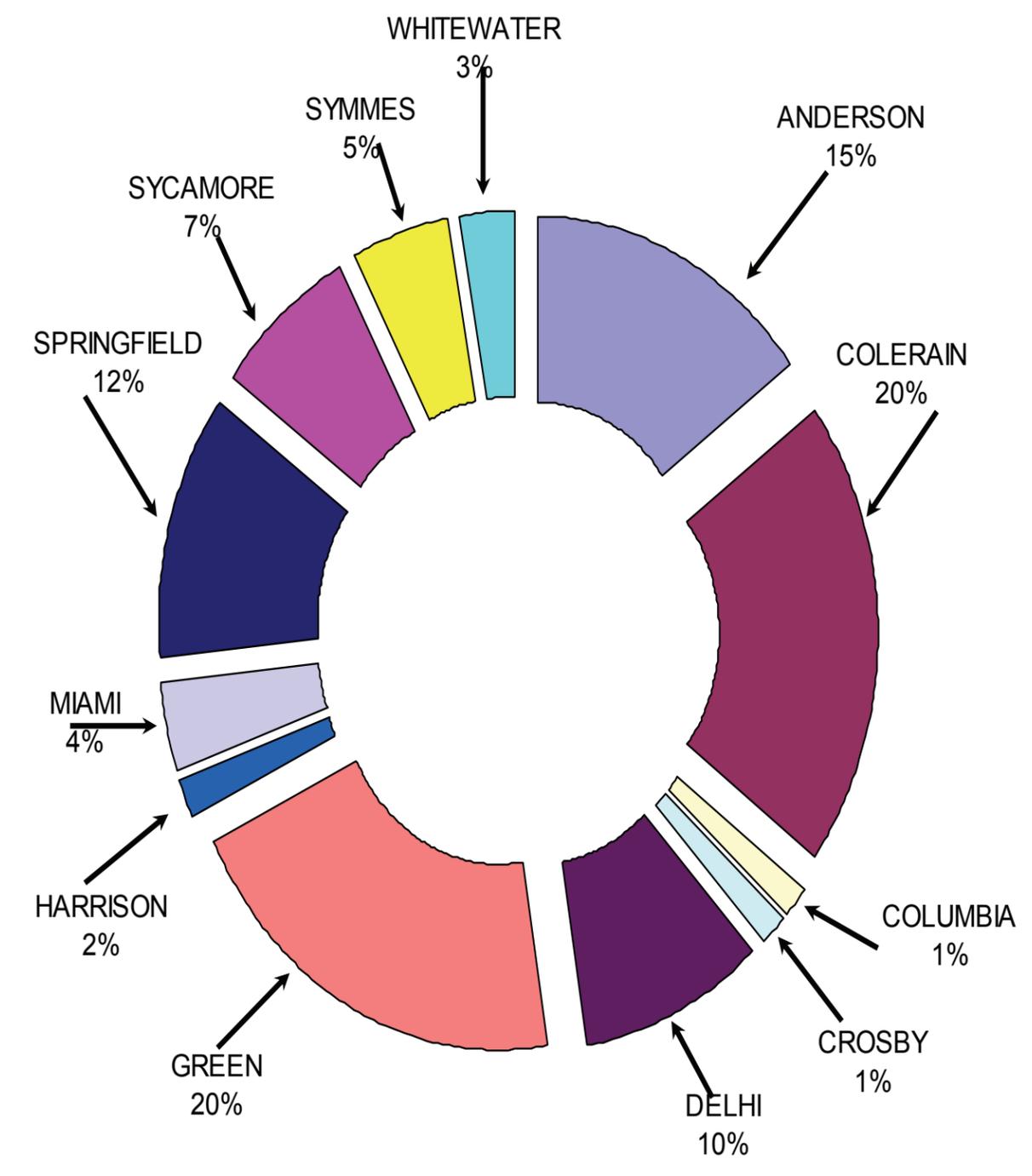
LED SIGNAL SUMMARY

HAMILTON COUNTY
GOES
GREEN

LOCATION TYPE:	#:	LED COMPLETE:	% COMPLETE:
TRAFFIC SIGNALS:	158	134	85%
NOTE: PEDESTRIAN SIGNALS COMPLETED @ 80 INTERSECTIONS (50%)			
FLASHERS:	33	14	42%
SCHOOL FLASHERS:	38	34	90%

The new LED type traffic signals require much less energy with the red lens using only 15 watts, the green lens 20 watts and the yellow lens using 22 watts of energy. This translates to a sizeable savings on the electric bill of approximately 80%.

2007 TOWNSHIP DISTRIBUTION



License Tax —Continued
ANNUAL DISTRIBUTION

<u>TOWNSHIP</u>	<u>PROJECT YEAR</u>	<u>PROJECT</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 RD	\$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	2003
	2003	PAVEMENT CONDITION SURVEY	\$12,000.00	2003
	2004	BRUNS LANE	\$48,710.00	2005
	2005	SIGNAL HILL	\$29,500.00	2006
	2006	COVENTRY WOODS	\$31,935.00	2006
	2007	2007 STREET RESURFACING	\$30,247.00	2007
	ANDERSON TOTAL:		\$531,382.00	
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
	COLERAIN TOTAL:		\$773,003.00	
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
	COLUMBIA TOTAL:		\$29,970.00	

2007 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 2007 totals 8.77 miles.



Kemper Road Resurfacing

<u>Roads</u>	<u>Limits</u>	<u>Length</u>
McKinney	Kemper-Enyart	2,263
Enyart	McKinney-Terwilligers Creek	3,910
Blue Rock	Cheviot S. Intersection-Cincinnati Corp. Line	2,994
East Kemper	McKinney-Loveland Madeira	6,059
Five Mile	I-275 South overpass-I-275 North Overpass	801
Nagel	Clough-Blackthorn Intersection	2,290
Galbraith	Miami-Montgomery	1,689
Hubble	Pavement Change-Cheviot	419
Wesselman	Pavement Change-Rybolt	2,964
Five Mile	State-Clough	2,751
Five Mile	Beechmont-State	4,302
Clough	State-Five Mile	1,711
New Biddinger	I-74-Carolina Trace	5,800
Lawrence	Pavement Change-Moonridge	436
Ridge	Losantaridge-Ridgewood	754
Bennett	Birney-Bennettwoods	3,782
Birney	Bennett-Farmbrook	396
Harrison	Pavement Change	2,972
	TOTAL:	46,293

2007 CONSTRUCTION PROJECTS

<u>PROJECT NAME</u>	<u>CONTRACTOR</u>	<u>AWARDED BID AMOUNT</u>	<u>LOCAL MATCH</u>
E500420 Hubble & Cheviot Road Intersection	Tri State Concrete	\$360,725	\$360,724
E500422 Miles Road Bridge B-0241	Sunesis Construction	\$386,151	\$386,151
E500601 Resurfacing 06-01	Ray Prus & Son	\$68,813	\$68,813
E500628 Dog Trot Road Bridge B-0103	DDK Construction	\$68,729	\$68,729
E500310 Camargo Road (B-0034)	Pro Shot Concrete	\$195,986	\$195,986
E500702 Guardrail Program	Security Fence	\$188,294	\$188,294
E500703 Resurfacing 07-01	Barrett Paving	\$530,143	\$530,143
E500327 Oxford Road	Sunesis Construction	\$323,025	\$130,000
E509617 Winton Road from Reynard to Fleming	Ray Prus & Son	\$4,023,084	\$1,776,875
E500312 Relocated Rybolt Road	Sunesis Construction	\$4,485,913	\$1,727,560
E509212 East Kemper Road	CJ & L Construction	\$2,595,066	\$1,020,066
E500423 Five Mile Road Enhancement	Permit Project Anderson Twp	\$2,000,000	\$0.00
E500511 Harrison Road Widening	Permit Project by Green Twp	\$850,000	\$0.00
Subtotal		\$15,879,943	\$6,453,341

2007 20% FUNDS SUPPORTED PROJECTS

<u>PROJECT NAME</u>	<u>TOWNSHIP</u>	<u>PROJECT COST</u>	<u>20% LOCAL MATCH</u>
Various Street Rehabilitation	Anderson	\$900,000	\$30,247
Various Street Rehabilitation	Colerain	\$852,000	\$40,035
Various Street Rehabilitation	Delhi	\$500,000	\$22,768
Various Street Rehabilitation	Green	\$1,300,000	\$41,700
Various Street Rehabilitation	Harrison Township	\$18,442	\$18,442
Various Street Rehabilitation	Miami Township	\$20,000	\$20,000
Various Street Rehabilitation	Springfield	\$250,000	\$22,479
Subtotal		\$3,840,442	\$195,671

2007 MUNICIPAL ROAD FUND SUPPORTED PROJECTS

<u>PROJECT NAME</u>	<u>MUNICIPALITY</u>	<u>PROJECT COST</u>	<u>MRF LOCAL MATCH</u>
Bridge Rehabilitation Program	Cincinnati	\$12,000,000	\$1,000,000
Blue Ash & Hunt Road Improvement	Blue Ash	\$3,030,000	\$50,000
Galbraith Road Improvement	Deer Park	\$173,290	\$100,000
Graceland Avenue Rehabilitation	Golf Manor	\$1,100,000	\$100,000
New Haven Road	Harrison	\$1,100,000	\$110,000
Remington Road Rehabilitation	Montgomery	\$214,430	\$85,750
Cliff Road Engineering	North Bend	Engineering	\$20,000
East Kemper Phase III	Springdale	\$2,743,604	\$446,000
Montgomery & Plainfield Road	Silverton	\$696,000	\$90,000
Spring Grove Avenue	St. Bernard	\$750,000	\$75,000
Subtotal		\$21,807,324	\$2,076,750

Grand Total of Construction Activity **\$41,527,709** **\$8,725,762**

(Project totals include monies from all participating agencies)

License Tax –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>
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
CROSBY TOTAL:			\$35,224.00	
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	
DELHI TOTAL:			\$373,902.00	
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
	1998	1998 STREET REAHBILITATION	\$41,775.00	1998
	1999	CLEARVIEW AV REHABILITATION	\$40,000.00	1999
	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
GREEN TOTAL:			\$720,126.00	

License Tax —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>
HARRISON				
	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
	HARRISON TOTAL:		\$65,726.00	
MIAMI				
	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	
	MIAMI TOTAL:		\$102,617.33	
SPRINGFIELD				
	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
	2007	2007 STREET RESURAFING	\$22,479.00	2007
	SPRINGFIELD TOTAL:		\$426,845.00	

County Snow & Ice Continued

2007 SNOW ROADEO WINNERS

1 st place winner was	Jim Hetzel
2 nd place winner was	Kirk Grimes
3 rd place winner was	George Lisi
4 th place winner was	Tom Gessendorf



Congratulations 2007 Snow Roadeo Winners !!!

Long before the season changes and snow once falls on the roadways, the Hamilton County Engineer held the Annual Snow Roadeo the week of September 10, 2007.

William W. Brayshaw, the Hamilton County Engineer, desires all drivers to make safe driving a priority, especially during snow and ice conditions. In preparation for winter, this training/competition is held yearly 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 Monday September 10th, through Wednesday, September 12, 2007 County Engineer William Brayshaw officiated over his Annual "Snow Roadeo". The Roadeo 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 205 drivers in total, which included 81 drivers from the Hamilton County Engineer's department, 72 from the Townships and 53 from the Municipalities participated in response to Mr. Brayshaw's invitation.

Thanks to all who participated.....



1st Place Winner



Jim Hetzel is a Professional Surveyor II.



There were several new items of equipment purchased in 2007

HAMILTON COUNTY SNOW & ICE LANE MILEAGE MAINTAINED	
<u>WESTERN DIVISION</u>	
County Roads	506.62
Other Roads	8.47
State Routes	87.00
TOTAL WESTERN:	<u>602.09</u>
<u>EASTERN DIVISION</u>	
County Roads	282.90
Other Roads	6.50
Ronald Reagan Highway	39.41
State Routes	97.82
TOTAL EASTERN:	<u>426.63</u>
<u>CENTRAL DIVISION</u>	
County Roads	371.56
Other Roads	19.44
Ronald Reagan Highway	52.73
State Routes	52.61
TOTAL CENTRAL:	<u>496.34</u>
GRAND TOTAL:	<u>1,525.96</u>

In 2007, The Hamilton County Engineer's Office purchased two (2) Compact Excavators. These units have been used primarily for ditch and berm maintenance. The size of these excavators will also be ideal for replacing cross-over pipes.



This machine has proven to be very versatile not only for berm and ditch maintenance with the 59" bucket and swivel head attachment, but also with the 24" digging bucket compact size and maneuverability makes it ideal for cross-over pipe replacement.

Not only is this excavator easier to maneuver and smaller than the equipment it replaced, the excavator makes it easier and safer to maintain traffic at the jobsite. The excavator is equipped with zero tail-swing meaning the rear of the unit stays within the width of the tracks.



The Compact Excavator features include rubber tracks, as not to damage the pavement, enclosed cab with heat and air, so it can be used year round in all weather conditions, and a hydraulic clamp making it easy to move large rock, broken concrete, tree stumps and other odd-shaped objects.

BIO-DIESEL FUEL

The Engineer Department started using Bio-Diesel in April 2005. At this time we have used over 89,300 gallons of Soy Bean based B-20 Blend and have experienced no issues. We are currently using it in 103 various vehicles and equipment. It can be used in existing diesel vehicles, without engine modification. Research shows that the use of bio-diesel reduces air pollution, including toxins, cancer-causing compounds and ozone forming emissions.



License Tax —Continued
ANNUAL DISTRIBUTION

<u>TOWNSHIP</u>	<u>PROJECT YEAR</u>	<u>PROJECT</u>	<u>APPROVED</u>	<u>YEAR PAID TWP</u>
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	
		SYCAMORE TOTAL:	\$239,512.22	
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
		SYMMES TOTAL:	\$175,080.54	
WHITEWATER				
	1995	MIAMITOWN STORM SEWER & RESURF	\$30,000.00	1995
	1997	FURLONG DRIVE	\$10,000.00	1997
	2000	LUTHER LANE	\$15,696.00	2001
		WHITEWATER TOTAL:	\$55,696.00	
		TOTAL TOWNSHIP EXPENDITURES TO DATE	\$3,529,084.09	

PROJECTED 2008 AND 2009 ROADWAY PROJECTS



ID NO	PROJECTS	DESCRIPTIONS	ESTIMATE
1	Resurfacing (Maintenance)	Various Roads	\$100,000
2	Harrison Avenue (Rybolt Road Phase II) (Hearne Road to the I-74 Interchange)	Widening and Rehabilitation	\$2,811,000
3	Winton Road Phase II (North Hill Lane to Fleming Road) Part A	Widening and Rehabilitation	\$2,657,860
4	Hamilton Avenue (Sevenhills Drive to the I-275 Interchange)	Widening and Rehabilitation	\$3,328,000
5	Montgomery Road Phase III (Kemper Road to Fields Ertel Road)	Widening and Rehabilitation	\$10,890,000
6	Galbraith Road (Blue Ash Road to Kenwood Road)	Widening and Rehabilitation	\$1,000,000
7	North Bend Road (Boomer Road to Monfort Heights Drive)	Relocation and Widening Improvement	\$2,400,000
8	Bridgetown Road and Powner Road	Intersection Area Improvement	\$500,000
9	Geotechnical Engineering and Testing	Engineering	\$200,000
10	Sidewalk Program	Rehabilitation	\$65,738
11	Taylor Road and Rybolt Road	Intersection Area Improvement	<u>\$600,000</u>
Subtotal 2008			<u>\$24,552,598</u>
12	Resurfacing (Exclusive of Maintenance)	Various Roads	\$1,000,000
13	Winton Road Phase II (North Hill Lane to Fleming Road) Part B	Widening and Rehabilitation	\$2,657,860
14	Galbraith Road (Winton Road to Daly Road)	Rehabilitation and Reconstruction	\$2,851,010
15	Blue Rock Road and Cheviot Road Intersection -	North Intersection Area Improvement	\$1,000,000
16	Race Road and Harrison Avenue Intersection	Intersection Area Improvement	\$1,500,000
17	Beechwood Road and Mt. Carmel	Intersection Area Improvement	\$1,000,000
18	Geotechnical Engineering and Testing	Engineering	\$180,000
19	E. Miami River Road - US 27 Design	Engineering	\$250,000
20	Ancor Connector Phase III	Intersection Area Improvement	\$1,000,000
Subtotal 2009			<u>\$11,438,870</u>
TOTAL AMOUNT (2008 & 2009)			<u>\$35,991,468</u>

Projects projected are dependent upon available financial leveraging to secure the needed funding.
TBH 01/02/08

PROJECT DESCRIPTIONS *Continues*

- ▶ **North Bend Road** - Estimated cost is \$2,400,000. Green Township is the primary funding participant in the project. This improvement will include the widening of North Bend Road from Boomer Road to a point south of the I-74 Interchange to accommodate 4 through lanes with appropriate turn lanes. The project length is less than 1,000 feet.
- ▶ **Bridgetown Road and Powner Road Intersection** - Estimated cost is \$500,000.00. Green Township is the primary funding participant in the project. The work involves providing additional turning lane improvements in the intersection area to better accommodate turn movements and efficiency.
- ▶ **Taylor Road and Rybolt Road Intersection** - Estimated cost is \$600,000.00. Green Township is the primary funding participant in the project. The work involves providing additional turning lane improvements in the intersection area to better accommodate turn movements and efficiency.
- ▶ **Blome Road Bridge Maintenance (INH-0157)** - Estimated cost is \$95,000. This project involves providing required planned bridge maintenance and repairs.
- ▶ **Suspension Bridge Road Bridge (B-0010)** - Estimated cost is \$50,000. This project involves resetting the rockers for the steel beams. This project is located in Whitewater Township.
- ▶ **Mosteller Road Bridge (SHA-0103)** - Estimated cost is \$500,000. The project involves the replacement of the existing structure.
- ▶ **Eight Mile Road (B-0070)** - Estimated cost is \$715,765. The project involves the rehabilitation of the existing structure using composite beams and decking. This project is located in Anderson Township.

- ▶ **Resurfacing Maintenance** - Estimated cost is \$100,000. This program involves utilizing innovative pavement maintenance techniques on the various roads throughout the unincorporated area of Hamilton County to preserve the existing infrastructure. The program may be expanded should additional funding become available.

- ▶ **Harrison Road (Rybolt Road Phase II)** - Estimated cost is \$2,811,000. ODOT will be a funding participant in the project. This project will include the widening of Harrison Road from Hearne Road through the I-74 Interchange to accommodate 4 through lanes with appropriate turn lanes. One of the new turn lanes will provide exclusive access from northbound Harrison Road to eastbound I-74. The project length is approximately 1,500 feet.

- ▶ **Winton Road (Phase II)** - Estimated cost is \$2,657,860. Springfield Township is a funding participant in this project. The proposed improvement involves the rehabilitation and widening of the roadway to accommodate 4 through lanes with appropriate turn lanes from North Hill Drive to Reynard Avenue in Springfield Township. The work will provide additional capacity to the Galbraith Road intersection. Project length is approximately 4,500 feet. This project is compatible with the Winton Road Corridor Study completed in 2001.

- ▶ **Hamilton Avenue** - Estimated cost is \$3,328,000. ODOT will be a funding participant in the project. This project will include the widening of Hamilton Avenue from Sevenhills Drive to the I-275 Interchange to accommodate 4 through lanes with appropriate turn lanes. The project length is approximately 2,000 feet.

- ▶ **Montgomery Road (Phase III)** - Estimated cost is \$10,890,000. ODOT will be a funding participant in the project. This project will include the widening of Montgomery Road from the Appleseed/Calumet Intersection to the Fields Ertel Intersection in Symmes Township to accommodate 4 through lanes with appropriate turn lanes. The project length is approximately 8,100 feet.

- ▶ **Galbraith Road** - Estimated cost is \$1,000,000. Sycamore Township is the primary funding participant in the project. The improvement will include the rehabilitation and widening of the roadway to accommodate 2 through lanes with a center left turn lane from Blue Ash Road to Kenwood Road. Project length is approximately 3,200 feet.

P

ROJECTED 2008 AND 2009 BRIDGE/SLIDE PROJECTS



East Kemper Road



Precast concrete panels being installed at East Kemper Road

ID NO	<u>PROJECTS</u>	<u>DESCRIPTIONS</u>	<u>ESTIMATE</u>
21	Blome Road Bridge Maintenance (INH-0157)	Repair	\$65,000
22	Suspension Bridge Road (B-0010)	Repair	\$50,000
23	Mosteller Road (SHA-0103)	Replacement	\$500,000
24	Eight Mile Road (B-0070)	Rehabilitation	\$715,765
<u>Subtotal 2008</u>			<u>\$1,330,765</u>
25	Bridge Maintenance	Repair	\$100,000
26	Cleves Warsaw Bridge Design	Engineering	\$250,000
27	Shadybrook Road (SPR- 0028)	Replacement	\$350,000
28	Blue Rock Road (B-0225)	Replacement	\$200,000
<u>Subtotal 2009</u>			<u>\$900,000</u>
<u>TOTAL AMOUNT (2008 & 2009)</u>			<u>\$2,230,765</u>

Projects projected are dependent upon available financial leveraging to secure the needed funding.
TBH 01/02/08

GOING GREEN WITH ENERGY EFFICIENCY

The Hamilton County Storm Water District will be supporting two pilot projects this year that involve Green Infrastructure and Building Techniques.

The Cincinnati Zoo and Botanical Garden Giraffe Ridge Exhibit

This summer the Zoo will open a new 27,000 square-foot Giraffe Ridge exhibit, featuring five Massai giraffes and two key green components. Visitors will have the opportunity to hand-feed giraffes at eye level from the new 2,700 square-foot deck, made entirely of composite wood. The exhibit will also highlight a 2,500 square-foot green roof which will reduce the rate and volume of rain water going into the City's sewer and help insulate the giraffe barn. The location of the building to the main path makes this building site a prime candidate for Green roof education. The top of the building will sit approximately 3' below the main Zoo walkway. This will allow any visitor to look down on the roof of the building and see the green roof. There will be an educational component along the fence explaining what a green roof is and why it is important to pursue this technology. The demographic of the Zoo visitor also correlates well with the educational aspect.

Civic Garden Center of Greater Cincinnati Sustainability Demonstration Site



Goal: To Have Net Zero Discharge Offsite

The Board of the Civic Garden Center has embarked upon a new horizon to re-center its educational programs on sustainable principals through a unique urban learning laboratory and sustainable landscape demonstration garden. The sustainable garden will transform this site to a model sustainable garden that has little or no discharge from the site and positively contributes air and water quality through a series of unique site components including the following:

Storm Water Management

- Green Roof Demonstration Area
- Pervious and Porous Pavement Demonstration Areas
- Raingardens
- Bioswale
- Sedimentation Catchments
- Groundwater Recharge Wells
- Cistern for recycling runoff for irrigation and grey water

Sustainable Site and Building Management

- Wise Energy Use
- Energy Efficient Vehicle
- Encourage Bike, Public Transportation
- Energy Efficient Building
 - LEED Certified Building Renovation
 - Solar Panels
 - Geothermal
 - Potential Future Windmill

This site will educate these issues through a series of learning displays, interactive exhibits and monitors. Green Roof system, paving systems and details of other sustainable building and site components will be provided to illustrate the systems while working. UC Institute for Sustainable Engineering is assisting Civic Garden Center Staff in guiding educational program development and on-going research programs that the site will provide. This sustainable learning garden and building will set a new standard for urban change.

The Engineer's department has Upgraded several of their facilities in order to save energy. Building upgrades were done at several facilities.

- ◆ HVAC was replaced at Western Facility with a high efficient, energy saving unit.
- ◆ Leaking roof was replaced with insulated roof with a R-19 value.
- ◆ Skylights were removed and additional insulation was installed.
- ◆ Single pane windows, original to the 1950' Galbraith Road building, were replaced with energy efficient double panel, Low-E, Argon filled windows.
- ◆ Windows at Western Facility were upgraded.
- ◆ High efficient Lighting upgrades at Eastern, Western and Galbraith locations.

These are just a few of the projects that have been implemented over the last several years to help reduce energy and operating costs.

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OWNSHIP AND COUNTY ENGINEER PROJECT DESCRIPTIONS

FOR PROGRAM YEAR 2008
DISTRICT 2 - HAMILTON COUNTY



Delhi Township – Morrue-Pembina Project - Estimated cost of \$535,000.00. Project is located in Friendly Acres Subdivision in central Delhi Township. Project includes extensive full depth reconstruction and partial depth reconstruction of the roadway; curb replacement; drainage corrections; asphaltic concrete overlay. A grant of \$267,500.00 was approved for this project for program year 2008. Construction is to be complete by December 15, 2008.

Hamilton County – Winton Road Improvement Phase II – Estimated cost of \$2,657,859.00. Project is located in Springfield Township and the limits are from North Hill Lane north to Reynard Avenue. Project consists of rehabilitation of the roadway with full depth repairs as necessary; remove and replace existing sidewalk and curb; construct additional left and right turn lanes at the intersection with Galbraith Road. This is the second of two grants originally approved in 2007 for this project. A grant of \$1,275,773.00 was approved for this project for program year 2008. Construction is to be complete by December 31, 2009.

Hamilton County – Galbraith Road Reconstruction – Estimated cost of \$2,851,030.00. Project is located in Springfield Township and the limits are from 500' west of Winton Road to the City of Cincinnati corporation line, approximately at Daly Road. Project consists of complete full depth reconstruction of the roadway; widen roadway to accommodate two 11' interior lanes and two 12' curb lanes; construct new drainage system; install 6' wide sidewalks on both sides of the roadway; overlay with asphaltic concrete. A grant of \$1,368,495.00 was approved for this project for program year 2008. Construction is to be complete by December 31, 2009.

Hamilton County – Blue Rock/Cheviot Road North Intersection Improvement – Estimated cost of \$1,000,000.00. Project is located in Colerain Township and the construction limits are from Blue Rock Road and Cheviot Road intersection (north intersection) to a proposed new intersection. Project includes relocating the north intersection of Blue Rock Road and Cheviot Roads approximately 400 feet north to provide a new T-shaped intersection. Approximately 825 L.F. of Blue Rock Road will be relocated on a new alignment, from a point approximately 900 feet northwest of the present intersection, to the new intersection. The existing 900 L.F. of Blue Rock Road will be closed to traffic. Cheviot Road will be widened from a point approximately 900 feet south to approximately 500 feet north of the new intersection. Left and right turn lanes will be constructed and a new signal system installed. Curb and gutter, new catch basins and revised storm drain system provided. Blue Rock Road will be reconstructed for over 825 L.F., starting with a width of 21 feet at the west end, widening to 26 feet over 175 feet, then to 50 feet over 340 feet and continuing at 50 feet wide. This will provide one east bound right turn lane, two east bound left turn lanes and two west bound lanes at the intersection. Cheviot Road will be widened from the present 35 feet at the south end widening to 50 feet over 335 feet and continuing at 50 feet wide for over 560 feet to the intersection. From the intersection to 190 feet north the width will be 62 feet then tapering to 35 feet (to meet existing width) over 300 L.F. At the south leg of the intersection (Cheviot Road), one northbound thru lane, two left turn storage lanes and one southbound lane will be provided. At the north leg (Cheviot Road), one southbound right turn lane, one southbound thru lane, and one northbound thru lane will be provided. At the west leg (Blue Rock Road) one right turn lane, one left turn lane and two westbound lanes will be provided. A grant of \$880,000.00 was approved for this project. Construction is to be complete by June 30, 2010.

Sycamore Township – Sturbridge Subdivision Reconstruction – Estimated cost of \$2,560,000.00. The subdivision is located on the north side of Montgomery Road, south of Miami Avenue and includes all of Sturbridge Drive, Wetherfield Lane, Branford Court, Westover Circle, Pepperell Lane, and Stoneham Place. Project consists of complete reconstruction of the roadway, new storm drainage system, new curbs, drive entrances, overlay with asphaltic concrete. A loan of \$1,264,545.00 was approved for this project. Construction is to be complete by June 30, 2009.