



City of Findlay

Pete Sehnert, Mayor

ENGINEERING DEPARTMENT

Brian Hurt, P.E., Chief Engineer

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Jim Barker
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January 29, 2010

**Mr. Pete Sehnert
Mayor, City of Findlay
Findlay, OH 45840**

**RE: Engineering Department
Annual Report for Calendar Year 2009**

Mr. Sehnert:

Throughout 2009, the City of Findlay Engineering Department has endeavored to provide citizens, developers, contractors, City Departments, and other interested parties with the best service possible in regard to all of the following functions:

- Civil Engineering
- Project Management
- Engineering records maintenance
- Infrastructure tracking
- Construction inspection
- Plan review
- Infrastructure planning
- Bonding, inspection, tracking of private development
- Contracting for City departments
- Utility/sidewalk permitting
- Address assignment
- GIS development
- Support for USACE Flood Feasibility Study
- Airport grant administration
- Inspection of City owned bridges
- Representation to numerous City Committees and Commissions
- Prevailing wage coordination for Capital Improvement projects
- Flood Hazard Mitigation
- City mapping

The varied knowledge base, expertise and dedication of the Engineering Department staff make the provision of these services possible. The knowledge of our staff is truly our greatest asset, essential to maintaining cost effective and efficient service. In unfortunate circumstances, because of the economic downturn, the Engineering Department had to decrease their workforce by 3 employees in 2009. At the end of 2009, the Department maintained 10 full time employees, listed below.

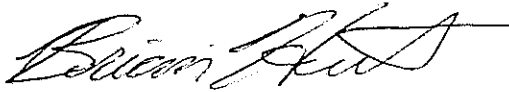
Brian Hurt	Chief Engineer	Greg Craven	Eng. Technician (GIS)
Meghan Clement	Engineering Intern	Glen Springer	Engineering Tech (CAD)
Dave Jordan	Chief Construction Insp.	Donna Corbin	Finance/Contract Control
Robert Stimmel	Construction Inspector	David Ohl	Records Administrator
Mark Steward	Surveyor Intern	Nathan Hoy	Project Manager

In 2009, the City of Findlay accepted the resignation of Matt Carpenter, P.E. the Assistant Chief Engineer. In lieu of the vacancy, Meghan Clement, EI was hired into the Engineering Intern job function. Ms. Clement is paid out of a combination of the Stormwater Fund (50%), Water Fund (25%) and Sewer fund (25%), rather than the General Fund. This funding method allows Ms. Clement to manage the OEPA mandated Stormwater Management Plan. This will also allow her to knowledge of the City's sewer and water systems in hopes to aid the Water and Wastewater departments with engineering issues.

The following pages contain the Annual Operations Summary for the Engineering Department, listing detailed statistical information. In addition, a short written description of the engineering department's involvement in the March 2009 Flood, Melrose Ave. Reconstruction, Lincoln St. Sewer Separation, progress maintenance of Geographic Information System, status of City-owned bridges and an update of USACE Flood Feasibility Study are included.

Please do not hesitate to contact me with any questions you may have regarding this information or department operations in general.

Respectfully Submitted,



Brian C. Hurt, P.E.
City Engineer

March 2009 Flood

The Engineering Department had a significant involvement in the March 2009 flood response.

The Engineering Department occupied the Flood Call Center throughout the event to react to issues that arose. With the addition of the flood warning system, a partnership with the USGS, the engineering department was able to predict the magnitude of the flood crest with great accuracy. Representatives of the Engineering Department notified many citizens and businesses about the magnitude of the impending flood through media outlets and community organizations. This allowed Findlay residents to prepare quicker and limit damage.

The engineering department also had continued involvement in the demolition of flood damaged houses. These houses were damaged in both the August 2007 flood and the February 2008 flood. The engineering department managed the demolition of a total of 28 homes. 20 of those homes were demolished in 2009.

Melrose Ave. Reconstruction (Crystal Ave. to Knollwood Dr.)

The Engineering Department managed a project that reconstructed a portion of E. Melrose Ave. between Crystal Ave. and Knollwood Dr. The construction project included reconstructed pavement, addition of curbs, replacement of waterline, addition of storm sewers, a traffic signal and a reconfiguration of a railroad crossing. This project included the first stormwater quality structure that exists in the City of Findlay. This stormwater quality structure will separate contaminants out of the stormwater before it outlets into Howard Run. The contract amount for the reconstruction was approximately 1.7 million dollars and actual construction costs will be under budget.

Lincoln Ave. Sewer Separation (Blanchard St. to Main St.)

The Engineering Department managed a project that separated sanitary and storm sewers along Lincoln St. between Blanchard St. and Main St. The construction project included reconstructed pavement, replacement of curbs, replacement of waterline, addition of storm sewers, and replacement of two traffic signals. This project will help eliminate the frequency to which Combined Sewer Overflows will be active downstream of this area. The contract amount for the reconstruction was approximately 1 million dollars and actual construction cost will be under budget.

Geographic Information System (GIS)

The Engineering Department remains the primary developer of the City of Findlay's Geographic Information System (GIS). GIS has proven to be a valuable asset to the City of Findlay. In 2009, the City Engineering department started planning to add a storm sewer layer to the GIS system. Planning and implementation of this layer will take up to 5 years. The priority for 2010 will be make small sections of the storm sewer system available for viewing.

Also in 2009, planning efforts were made to incorporate scanned documents into our GIS for reference. The engineering department has scanned approximately 10,000 water and sewer permits in TIF format. The goal for 2010 is to link these documents to the appropriate parcel in GIS.

City-Owned Bridges

The City of Findlay continues to own and maintain four roadway bridges and two pedestrian bridges within the City. These bridges are:

- Blanchard Street Bridge over the Blanchard River
- Dr. Martin Luther King, Jr. Parkway Bridge over the Blanchard River and CSX
- Civitan Park Pedestrian Bridge over the Blanchard River
- East Trenton Avenue Bridge over Howard Run and CSX
- Emory Adams Pedestrian Bridge over Eagle Creek
- Saratoga Drive Bridge over Rush Creek

Annual inspection of vehicular bridges by a certified bridge inspector is required by the Ohio Department of Transportation. Inspections show that the City's structures remain in fair to good condition. Minor deterioration and structural issues with the Dr. Martin Luther King, Jr. Parkway Bridge were noted in 2006. In 2009, a rehabilitation project was completed on the Dr. Martin Luther King, Jr. Bridge that eliminated the issues defined in 2006 and will provide the bridge with an additional 20 years of service life.

Brian C. Hurt, P.E. is a certified bridge inspector through the State of Ohio. He is the only person on staff that is certified in this manner.

If the City chooses to accept responsibility for additional bridges within the corporation limits or considers construction of additional bridges, consideration should be given to maintenance personnel, equipment, and funding sources for maintenance and future rehabilitation or replacement projects on these important structures.

USACE Flood Feasibility Study

In response to the flooding events of 2006-2009, the City of Findlay has partnered with the US Army Corps of Engineers to undergo a Feasibility Study to find solutions to the flood problems in Findlay. In 2009, the engineering department along with USACE district office in Buffalo, NY and the Northwest Ohio Flood Mitigation Partnership was able to present some preliminary flood reduction plans to the community for comment. Those plans have been reviewed by the general public and their desires were incorporated to a locally preferred plan. In October 2009, a locally preferred conceptual plan was presented to the community in a public forum. The locally preferred plan has been given to the USACE and is being incorporated into the final plan recommendations. The engineering department also conducted meetings with the US Fish and Wildlife Service, ODNR and OEPA to discuss concerns that they have regarding the project. The feasibility study should recommend a finalized flood reduction plan by the end of 2010.

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2009**

The following information is provided as a report of operations in the Engineering Department for the year 2009. Corresponding years 2007 and 2008 are shown for comparison.

NEW SANITARY SEWER

	<u>2009</u>	<u>2008</u>	<u>2007</u>
8" Force Main	2091 LF	0 LF	0 LF
4" Force Main	1,684 LF	0 LF	0 LF
6"	360 LF	575 LF	542 LF
8"	8,373 LF	10,896 LF	6,883 LF
10"	2,091 LF	332 LF	774 LF
12"	293 LF	475 LF	595 LF
15"	969 LF	893 LF	0 LF
18"	0 LF	0 LF	567 LF
21"	0 LF	0 LF	0 LF
24"	0 LF	0 LF	0 LF
30"	0 LF	0 LF	0 LF
34"	0 LF	0 LF	0 LF
36"	0 LF	0 LF	0 LF
42"	0 LF	0 LF	0 LF
TOTALS	15,861 LF	13,171 LF	9,361 LF

SANITARY SEWER PERMITS ISSUED

	<u>2009</u>	<u>2008</u>	<u>2007</u>
Outside City	15	27	43
Inside City	61	70	104
TOTALS	76	97	147

SANITARY SEWER FEES COLLECTED

	<u>2009</u>	<u>2008</u>	<u>2007</u>
Tap/Inspection Fees	\$21,155.00	\$8,680.00	\$9,030.00
Capacity Fees	\$21,054.00	\$23,958.00	\$59,532.00
Rotary Fees	\$9,556.96	\$15,846.00	\$5,799.20
Impact Fees	\$42,572.70	\$44,644.00	\$128,214.00
	\$94,338.66	\$93,128.00	\$202,575.20

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NEW STORM SEWER

	<u>2009</u>	<u>2008</u>	<u>2007</u>
6"	250 LF	919 LF	210 LF
8"	490 LF	135 LF	1,140 LF
10"	415 LF	35 LF	0 LF
12"	3,058 LF	6,430 LF	2,801 LF
15"	1,305 LF	2,004 LF	2,580 LF
18"	705 LF	1,250 LF	2,998 LF
21"	0 LF	681 LF	0 LF
24"	1,630 LF	1,135 LF	1,555 LF
27"	0 LF	896 LF	0 LF
30"	875 LF	933 LF	818 LF
36"	170 LF	268 LF	636 LF
42"	0 LF	704 LF	0 LF
48"	0 LF	0 LF	0 LF
54"	0 LF	18 LF	0 LF
60"	96 LF	0 LF	0 LF
84"	553 LF	0 LF	0 LF
TOTALS	9,547 LF	15,408 LF	12,738 LF

STORM SEWER PERMITS ISSUED

	<u>2009</u>	<u>2008</u>	<u>2007</u>
Outside City	13	27	31
Inside City	46	70	88
TOTALS	59	97	119

STORM SEWER FEES COLLECTED

	<u>2009</u>	<u>2008</u>	<u>2007</u>
Impact Fees	\$4,375.00	\$7,735.00	\$9,415.00

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NEW WATERLINE

	<u>2009</u>	<u>2008</u>	<u>2007</u>
4"	0 LF	0 LF	10 LF
6"	1,141 LF	1,653 LF	2,274 LF
8"	16,008 LF	14,069 LF	7,561 LF
10"	0 LF	2,506 LF	2,918 LF
12"	4,184 LF	698 LF	5,636 LF
16"	0 LF	0 LF	1,784 LF
20"	0 LF	756 LF	0 LF
24"	0 LF	0 LF	0 LF
30"	0 LF	0 LF	0 LF
36"	0 LF	0 LF	0 LF
TOTALS	21,333 LF	19,682 LF	20,183 LF

WATER SERVICE PERMITS ISSUED

	<u>2009</u>	<u>2008</u>	<u>2007</u>
Outside City	17	37	48
Inside City	44	64	110
TOTALS	61	101	158

WATER FEES COLLECTED

	<u>2009</u>	<u>2008</u>	<u>2007</u>
Tap/Meter Fees	\$53,725.00	\$82,275.00	\$149,000.00
Rotary Fees	\$4,400.00	\$33,030.80	\$24,370.55
TOTALS	\$58,125.00	\$115,305.80	\$173,370.55

Impact Fees

**CITY OF FINDLAY
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NEW PAVEMENT (HARD SURFACE WITH CURB)

	<u>2009</u>	<u>2008</u>	<u>2007</u>
Total(construction and annexations)	0.00 Miles	1.30 Miles	2.10 Miles

STREET RESURFACING

	<u>2009</u>	<u>2008</u>	<u>2007</u>
Total Increase	0 LF 0.00 Miles	24,046 LF 4.60 Miles	22,978 LF 4.50 Miles

CURB CUT PERMITS

	<u>2009</u>	<u>2008</u>	<u>2007</u>
Permits Issued	63	35	85
Fees Collected	\$1,550.00	\$825.00	\$2,000.00

SIDEWALK PERMITS

	<u>2009</u>	<u>2008</u>	<u>2007</u>
Total Repaired	3284 LF	5988 LF	5040 LF
Total Constructed	6082 LF	4201 LF	7758 LF
Permits Issued	161	195	194

ANNEXATIONS

	<u>2009</u>	<u>2008</u>	<u>2007</u>
Total Increase	72.435 Acres 0.113 Sq Mi.	14.812 Acres 0.023 Sq Mi.	217.505 Acres 0.340 Sq. Mi.

**CITY OF FINDLAY
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**OPERATIONS SUMMARY
FOR THE YEAR OF 2009**

WATERLINES

Total through 2008	306.12 Miles
Constructed 2009	4.04 Miles
Removed 2009	0.00 Miles
TOTAL through 2009	310.16 Miles

SANITARY SEWERS

Total through 2008	290.64 Miles
Constructed 2009	3.00 Miles
Removed 2009	0.00 Miles
TOTAL through 2009	293.64 Miles

STREET RIGHT-OF-WAY AND PAVEMENT

Hard surface with curb through 2008	128.81 Miles
Hard surface without curb through 2008	64.26 Miles
TOTAL pavement through 2008	193.07 Miles
TOTAL Right-of-Way through 2008	192.90 Miles
Vacated - 2009	
Hard surface with curb	0.00 Miles
Hard surface without curb	0.00 Miles
Right-of-way	0.00 Miles
Constructed - 2009	
Hard surface with curb	0.78 Miles
Hard surface without curb	-0.78 Miles
Dedicated - 2009	
Right-of-way	0.00 Miles
Annexed - 2009	
Hard surface with curb	0.00 Miles
Hard surface without curb	0.00 Miles
Right-of-way	0.00 Miles
TOTAL Hard Surface with curb	129.73 Miles
TOTAL Hard Surface without curb	63.87 Miles
TOTAL Pavement through 2009	193.60 Miles
TOTAL Right-of-way through 2009	193.43 Miles

ANNEXATIONS

Total through 2008		19.5021 Sq. Miles
Annexations 2009	72.435 Acres	0.1132 Sq. Miles
TOTAL through 2009		19.6153 Sq. Miles

