

### City of Findlay

### Pete Sehnert, Mayor

#### ENGINEERING DEPARTMENT

Brian Hurt, P.E., Chief Engineer 318 Dorney Plaza, Room 304 • Findlay, OH 45840 Phone: 419-424-7121 • Fax: 419-424-7120 www.findlayohio.com

> Jim Barker Safety Director Bruce Hardy Service Director

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 Cityowned 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.

# 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

		2009	2008	<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

		2009	2008	2007
Outside City		15	27	43
Inside City		61	70	104
_	TOTALS	76	97	147

### SANITARY SEWER FEES COLLECTED

	2009	2008	<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

# 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 STORM SEWER**

TIE II DI CIUII DE	.,				· · · · · · · · · · · · · · · · · · ·
	<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"		LF		LF	<u> </u>
,	TOTALS 9,547	LF	15,408	LF	12,738 LF

#### STORM SEWER PERMITS ISSUED

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

#### STORM SEWER FEES COLLECTED

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

# 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 WATERLINE**

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

### WATER SERVICE PERMITS ISSUED

		2009	<u>2008</u>	<u>2007</u>
Outside City		17	37	48
Outside City 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

### 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 PAVEMENT	HARD	SURFACE	WITH CURB)	ı
· · · · · · · · · · · · · · · · · · ·	(	~ ~ - ~ - ~ - ~ -	.,	,

NEW PAVEMENT (HARD SC	REACE WITH C	UKB)	
	<u>2009</u>	2008	<u>2007</u>
Total(construction and annexations)	0.00 Miles	1.30 Miles *	2.10 Miles
CTREET REGIDE ACINIC			
STREET RESURFACING			
- Andrews	<u>2009</u>	<u>2008</u>	<u>2007</u>
Total Increase	0 LF	24,046 LF	22,978 LF
	0.00 Miles	4.60 Miles	4.50 Miles
CURB CUT PERMITS			
	2009	2008	2007
			_
Permits Issued	63	35	85
Fees Collected	\$1,550.00	\$825.00	\$2,000.00
SIDEWALK PERMITS			
	2009	2008	2007
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>	2008	<u>2007</u>
Total Increase	72.435 Acres	14.812 Acres	217.505 Acres
	0.113 Sq Mi.	0.023 Sq Mi.	0.340 Sq. Mi.

# OPERATIONS SUMMARY FOR THE YEAR OF 2009

### **WATERLINES**

WATERLINE	ES
Total through 2008	306.12 Miles
Constructed 2009	4.04 Miles
Removed 2009	0.00 Miles
TOTAL through 2009	310.16 Miles
SANITARY SEV	VERS
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 A	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
ANNEXATIO	NS
Total through 2008	19.5021 Sq. Miles
Annexations 2009 72.435 Acres	0.1132 Sq. Miles
TOTAL through 2009	19.6153 Sq. Miles

		STORM S	EWEF	R TABULATIC	NS F	OR 2009				
Project Name	Project #	Original Year	Cost	Private(TBR)	City	Assessed	Length	Cos	st	Remarks
HAGERMAN STORM OUTLET (OPWC)	325750	-	-		X		819	\$	407,061	(OPWC)
HRC 5-PLEX	319583	+	-		X		6998	\$	209,021	
E. LINCOLN ST IMPROVEMENTS	357832	-	-		Х		1730	\$	71,883	
	· · · · · · · · · · · · · · · · · · ·		1					1		
			<u> </u>		<del>                                     </del>					
			<del>                                     </del>							
			<u> </u>		1			1		
								1		
			<del> </del>	<del>                                     </del>	<del> </del>			1		
<u></u>			<b> </b>	<u> </u>	<del> </del>	TOTAL	0.547	9.	687,965	
			<del> </del>		<del>                                     </del>	TOTAL	3,3-77	┼~	001,000	
			<del> </del>	<b></b>	<del>                                     </del>			<del> </del>		
			<del> </del>	<del> </del>	<del>                                     </del>			<del> </del>		
			-		<del></del>			1		
			<del> </del> -	<del> </del>	<del>. </del>			+		
			<u> </u>	<u> </u>	<del> </del>			╂	·	
			<u> </u>			<u>.</u>		<del> </del> -	<del></del>	÷
			<del> </del>	<u> </u>	<del> </del>			+-		
					-			· <del> </del>		
					<b></b>			<del> </del>		
								┼		
			ļ	<u> </u>	<del></del>			┼		
· · · · · · · · · · · · · · · · · · ·			ļ					-		
					ļ			-		
								┡		
								<b></b>		
					<u> </u>			<del> </del>		
					<u> </u>			<u> </u>		
								<u> </u>		
					1			<u> </u>		
								1		
								1		
							:			
			1					1	<del> </del>	
					1			1		
					1			1		
			1		+			1		
				<b>-</b>	<del></del>		<u> </u>	1		
		<u> </u>	<del> </del>		<del>- </del>			+		
		<u> </u>	<u> </u>	.1		<u> </u>	<u> </u>	.1		

		SANITA	RY SEWE	R TABULATI	ONS	FOR 2009				
Project Name	Project#		Cost	Private(TBR)	City	Assessed	Length	Cos	t	Remarks
DRURY INN SITE WORK	311726		-	X			756		41,100	
EASTERN WOODS OUTPATIENT (UG)	311841		-	Х			744	\$	38,034	
FINDLAY WAREHOUSE SAN. SEWER EXT.	311851		_	X	1		969	\$	37,100	
HANCOCK COUNTY CONSORTIUM	311840		-	Х	1		749	\$	63,000	
HRC 5-PLEX	319583		-		X		345	\$	8,700	
MEADOW RIDGE ESTATES (UG)	311658		_	Х	<u> </u>		8628	\$	432,082	
PRIMROSE RETIREMENT HOUSING	311637			X			3670	\$	288,442	
FRIMINOSE RETIREMENT TICOUNTO	011007									
			<del> </del>							
			<u> </u>					1		
			<u> </u>		1					
	<del> </del>							1		
					+			1		
					-			1		
						TOTAL	15861	\$	908,458	
								<del>                                     </del>		
					1					
				1				1		
				<u> </u>						
				<u> </u>				1		
				<u> </u>				<del>                                     </del>		
								T		
								1		
				1		1		<u> </u>		
			<del>-  </del>	•					<u></u>	
								1		
			<del></del>					1-		
								1		
	<del>-  </del>		-					$\top$		
		<u> </u>	<del>-  </del>		-	+	1	+		
	_	<u> </u>	_					-		
				:	-			+		
					-		·			
				<del></del>			-			
					_					
				•	1			-		
				<u> </u>			!			1

		WATE	RLINE	TABULATION	IS FC	R 2009				
Project Name	Project # 0	Original Year	Cost	Private(TBR)	City	Assessed	Length			Remarks
COUNTY ROAD WATERLINE (OPWC)	357751	-	-		X		2,858		188,826	
DRURY INN SITE WORK	311726	-	-	Х			1,898		83,825	
EASTERN WOODS OUTPATIENT (UG)	311841	-	-	X			953		66,655	
EMORY ADAMS SOCCER COMPLEX WL	357849	+	-		X		285		39,328	
HRC 5-PLEX	319583	_	-		X		1,045		50,160	
MEADOW RIDGE ESTATES (UG)	311658	-	-	Х			8299		355,250	
PRIMROSE RETIREMENT HOUSING	311637	=	-	X			3,665		192,576	
E. LINCOLN ST IMPROVEMENTS	357832	1930	?		X		2,330	\$	97,006	
L. LINGULING THAI TO VEHICLATO										
								<u> </u>		
									·····	
								<u> </u>		
									•	
							1			
						TOTAL	21,333	\$	1,073,626	
								<u> </u>		
								<u> </u>		
		<u></u>								
			- I							
			<del> </del>							

		STREI	ET PAVINO	TABUL	ATIONS	FOR	2009			
New Pavement Projects	Project #	Original Year		TBR	City			Length	Cost	Remarks
NONE	1 1 1 2 3 1 1								,	
NONE										
							TOTAL		\$ -	
								MILES		
Resurfacing	Project #	Original Year	Cost	Length	Cost					
E. MELROSE AVE	328446	1979	\$ 17,000	4100	\$ 469,	000				4100 moved from non-curbed to curbed streets
E. LINCOLN ST.	357832	1973	?	2400	\$ 170,	000				
RIDGEVIEW DR	328901	1980's	?	1300	\$ 90,	000	,			
BROAD AVE	328901	1950's	?	750		000				
E. CRAWFORD ST.	328901	1950's	\$ 14,900	880		000				
E. HARDIN ST	328901	1960's	\$ 5,800	820	\$ 40,	000				
W. LINCOLN ST.	328901	1950's	\$ 8,500	335	\$ 20,	000				•
FOX RUN RD.	328901	1980	\$ 30,000	1700	\$ 110,	000				
TOX KON NO.										
									<u> </u>	
Street Dept. Resurfacing	Project #	Original Year	Cost	Length	Cost					
NONE										
	:							<u> </u>		
										•
								Ĭ		
	:									
	···				1					
				T						
			Total	0.000	MILES					
				1			·-··			
				1						
	<u>.</u>	1					<u> </u>			

.

		0.1	-NITED	NINE TABLE	LATIONS FOR 2009		
		CI	=NIER	LINE TABU	Demotion 2009		
Project Name	Project #	R/W	COKR	NO CURB 0	Remarks		
NONE				- 0			
				0			
				1 0			
				<u> </u>			
				<del>                                     </del>	LF	T I	
TOTAL					Miles		
				0.00	IMINGO		
ANNEYED		1	0	0			
ANNEXED	0 LF	0		1			
VACATED	ULF	1 0		, 			
TOTAL		0	0	<del>\                                    </del>	LF		
TOTAL		0.00		1	Miles		
		0.00	0.00	0.00	Mileo		
			<del> </del>				
			<u></u>				
		<del> </del>	-				
			<del> </del>				<u> </u>
							<u> </u>
			<del> </del>				<u> </u>
			<del>                                     </del>				<b></b>
		<u> </u>					<u> </u>
							<u> </u>
			<del>                                     </del>				<u> </u>

		2009	STOF	M SE	WER I	INES	BY SI	ZE								·	
PROJECT NAME	PROJECT#	6"	8"	10"	12"	15"	18"	21"	24"	27"	30"	36"	60"	84"		REMOVED	
HAGERMAN STORM OUTLET (OPWC)	325750											170	96	553	819		
HRC 5-PLEX	319583	250	490	415	2308	325	705		1630		875				6998		
E. LINCOLN ST IMPROVEMENTS	357832	,			750	980									1730		
E. EINCOEN ST IMPROVEMENTS																	
											0						
																_	
						,											
																ļ	
																1	
TOTAL		250	490	415	3058	1305	705	0	1630	0	875	170	96	553	9547		LF
TOTAL MILES		0.047	0.093	0.079	0.579	0.247	0.134	0.000	0.309	0.000	0.166	0.032	0.018	0.105	1.808	3	MILES
VIILES		0.0 17	0.000														
																	ļ <u>-</u>
																<u> </u>	<del> </del>
									ļ								. <del> </del>
								<u> </u>									<del> </del>
					·, ····							<u> </u>				<u> </u>	<u> </u>
									<del> </del>				<u></u>				
									<b></b>								
																	1
												<u> </u>					
								<u></u>	<u> </u>					<del> </del>	<del></del>		
									<u> </u>	<u> </u>	ļ			<u> </u>			
									<del>                                     </del>	<del> </del>	ļ		<u> </u>	<del> </del>			<del> </del>
			ļ	ļ				<del> </del>		<u> </u>	ł			<u> </u>	<del>                                     </del>		<u> </u>
			<u> </u>	<del> </del>				<u> </u>	<del> </del>		-	<del></del>	<del>                                     </del>				
			ļ	<del> </del>	<u> </u>			<del>                                     </del>	<del> </del>	1	<u> </u>	· · · · · · · · · · · · · · · · · · ·					
		<u> </u>		<del>                                     </del>	ļ <u>-</u>			-	<del>                                     </del>								
			<del> </del>	- <del> </del>		1		<del> </del>	<del>  </del>								
			<del> </del>	<del>                                     </del>	<del> </del>	<b>-</b>				T							
			1	<del> </del>	<del>                                     </del>	<del> </del>	<del>                                     </del>									-	
		<del> </del>	<del> </del>	<del> </del>	1	†····									1		

		200	9 SANITARY SE	WER	LINES BY	/ SIZE						
PROJECT NAME	PROJECT#		8" FORCE MAIN		8"	10"	12"	15"	18"	24"	TOTAL	REMOVED
DRURY INN SITE WORK	311726				756						756	
EASTERN WOODS OUTPATIENT (UG)	311841			15	729						744	
FINDLAY WAREHOUSE SAN. SEWER EXT.	311851							969			969	
HANCOCK COUNTY CONSORTIUM	311840				749						749	
HRC 5-PLEX	319583			345							345	
PRIMROSE RETIREMENT HOUSING	311637	1684			1986						3670	
	311658		2091		4153	2091	293				8628	
MEADOW RIDGE ESTATES (UG)	311030		2001									
	-							· · · · · · · · · · · · · · · · · · ·				
	<u> </u>											
											*	
	<b> </b>											
				_								
						İ						
	<del> </del>											
			<u> </u>	<del> </del>					<del></del>			
		1684	2091	360		2091	293	969	0	0	15861	
TOTAL		1004	2091	300		2001	200		<u>~</u>			
		0.319	0.306	0.068	<u> </u>	0.396	0.055	0.184	0.000	0.000	3.004	
MILES		0.518	0.390	0.000	<b> </b>	0.000	0.000	0.104	0.000	0.000		
						<del>                                     </del>			<del>                                     </del>			
					<u> </u>	ļ						
				1		<del> </del>			<u> </u>	<del>  "</del>		
										· · · · · · · · · · · · · · · · · · ·		
				-		-			<del> </del>	<u> </u>		
										<del>                                     </del>		
				<del> </del>	<u>                                     </u>				1	<del> </del>		
						<del>                                     </del>			<del> </del> -	<del> </del>		
							<u> </u>		<u> </u>	<del> </del>		
						<del> </del>		<u>                                     </u>	-	<del> </del>		
				<b></b>			1		<u> </u>	<u> </u>		
						<del>                                     </del>	1		<del>                                     </del>	<b></b>		
									-	1		
						-	1		<del> </del>	-		
							-		<del> </del>			
						<u> </u>				<u> </u>	-	
				1		<u> </u>		<u> </u>	<u> </u>			

	2009 V	VATER	LINES E	SY SIZE						
2009 WATER LINES BY SIZE	PROJECT#	4"	6"	8"	10"	12"	20"	TOTAL	REMOVED	
COUNTY ROAD WATERLINE (OPWC)	357751					2858		2858		
DRURY INN SITE WORK	311726			1898				1898		
EASTERN WOODS OUTPATIENT (UG)	311841			953				953		
EMORY ADAMS SOCCER COMPLEX WL	357849		285					285		
HRC 5-PLEX	319583					1045		1045		
PRIMROSE RETIREMENT HOUSING	311637			3665				3665		
E.LINCOLN ST IMPROVEMENTS	357832			2330				2330		
MEADOW RIDGE ESTATES (UG)	311658			7162		281		7443		
				j						
						<u> </u>				
							:			
				,						
TOTAL		0	285	16008		4184	0	20477	0	
MILES		0.000	0.054	3.032	0.000	0.792	0.000	3.878	0 NET	···
								·····	ļ	
								<u>.</u>		