

LUCAS COUNTY ENGINEER'S 2012 ANNUAL REPORT



Lucas County Engineers Office
Keith G. Earley, P.E., P.S., Lucas County Engineer



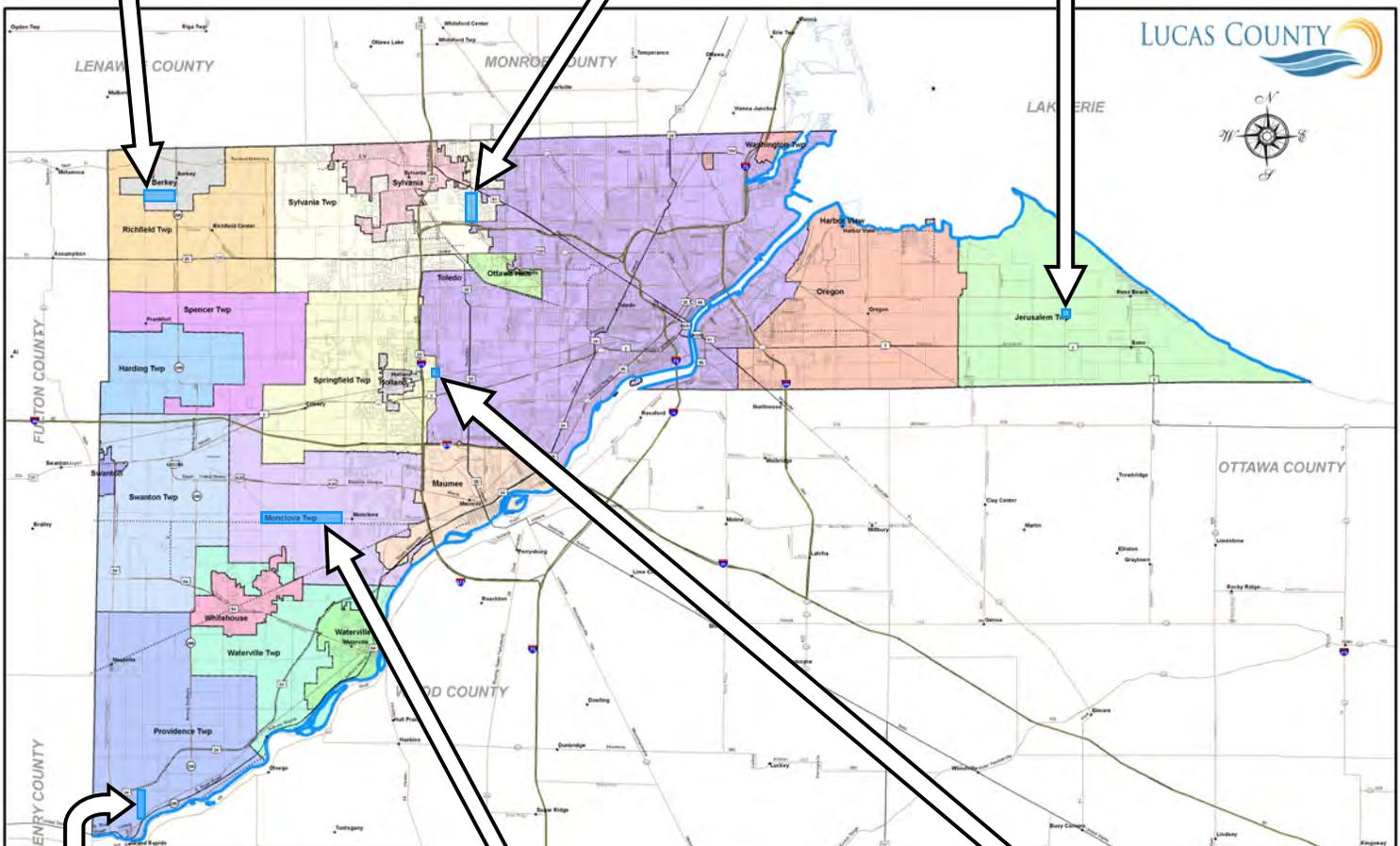
Brint Road - Lathrop Rd. to S.R. 295



Whiteford Road - Sylvania Ave. to
Summerfield Rd.



Yondota Rd. & Seaman Rd. - Culvert
1445/1446



Jeffers Road - Ludwig Rd. to Patton Rd.



Monclova Road - Eber Road to Albon Road



Angola Road at Holland-Sylvania Road

Lucas County Engineer's Office

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JUNE 1st, 2013

Why Wasn't I Told ?

If you hired someone to maintain a large building that housed expensive equipment and thousands of people were working there, you would want to make sure that infrastructure was maintained properly. If you allocated the same amount of money every year for fifteen years for the maintenance and operation of those facilities, you could have big problems when the cost of labor, materials, fuel, contract services, and other items increase each year. The people you hired to maintain the facilities could keep patching the roof and repairing equipment, but extremely expensive repairs would eventually be required. When the roof leaks or the furnace quits working, you would probably ask; "why wasn't I told there would be problems?"

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Most people would understand that your budget should cover inflation costs. A 3% annual increase to cover the cost of inflation is reasonable, but if you wait 15 years to do anything you would need a 50% increase to have the same buying power. If you wait another five years a 75% increase would be required to cover the cost of inflation, plus you lost all that extra needed revenue to cover inflation costs over that 20 year period. Motor vehicle license plate fees and gas tax is the dedicated source of funding for county maintained roads and bridges, and the amount we received last year was less than it was fourteen years ago, while the cost of paving has more than doubled during that time. We get the same amount of tax per gallon now when gas is around \$4.00 per gallon that we did when it was \$2.00 per gallon, and vehicles are now more fuel efficient. The statewide allowable license plate fee is the same as it was 25 years ago and the number of vehicles registered in Lucas County has been declining. If funding had been indexed for inflation, we would not have a problem. The longer this trend continues, the more difficult it is to correct. Voters usually are opposed to increased fees when the problems are not clearly visible, and legislators are reluctant to approve increases when needs are not recognized by the voters. Our Lucas County maintained roads and bridges are currently in good condition, but projected revenue is not adequate to keep them that way for very long.

We have reduced our workforce by more than 40%. We have devoted employees struggling to provide good services with limited resources. We currently have one of the best county highway systems in the state, but like all county engineers our revenue has not kept pace with inflation. We are doing preventative maintenance procedures that we expect to last between 3 and 8 years where we should be doing improvements that would last 10 to 20 years. If revenue is not adjusted to cover inflation there will be problems.

I would like to thank our dedicated employees. Please visit our website at www.co.lucas.oh.us/engineer for additional info.

We appreciate the positive response to last year's report. Your feedback is always welcome. Very truly yours,

Keith Earley



*Keith G. Earley, P.E., P.S.
Lucas County Engineer*

Editor—Brian S. Miller



RESPONSIBILITIES OF THE LUCAS COUNTY ENGINEER'S OFFICE

1. Inspection, maintenance, repair, widening, resurfacing and reconstruction of pavements and storm drainage for the Lucas County Highway System. Road maintenance duties include traffic control, safety projects, mowing, snow removal, bridge/culvert maintenance, berming, pavement repair, roadside ditch and storm drainage improvements and similar functions.
2. Maintaining public surveying records, bridge/culvert data, property tax maps and the County/Township's road, culvert and drainage records.
3. Advising and providing engineering/surveying services to the eleven (11) Townships in regard to maintenance, construction and repair of the Township Highway System.
4. Overseeing design and construction of new subdivisions and reviewing site plans and permits for development projects in the Townships.
5. Inspection, repair, reconstruction and replacement of bridges on the County and Township roadway systems.
6. Maintaining and repairing ditches and retention areas that have been petitioned by affected property owners. Working with the Toledo Area Sanitary District on needed ditch cleanouts.
7. Administering District 12's (Lucas County) Program for the Ohio Public Works Commission to implement the State Capital Improvement Program, the Local Transportation Improvement Program, Job Ready Sites (JRS), and the Clean Ohio Revitalization Fund Program (CORF).
8. Participating by co-operative agreements, in certain road and bridge projects with the Townships, Cities and Villages of the County.
9. Managing the new Lucas County Phase 2 Storm Water District

2012 ANNUAL REPORT

To: The Honorable Board of County Commissioners & the Citizens of Lucas County

The purpose of this report is to discuss the current condition of our highway system, significant projects completed, underway, and planned, and to discuss the long term outlook and needs.

Current Condition

Currently, more than half of the 304 centerline miles of county maintained roads have paved shoulders, 4 to 6 feet wide on each side, and many of the deeper roadside ditches have been enclosed for additional safety. Additional lanes have been added to accommodate increased traffic, and we currently maintain 659.4 lane miles. Most all of the pavements are in relatively good condition with very few potholes or other forms of significant distress. All of our bridges can safely handle legal loads. Many improvements have been made to our traffic signals and all have energy efficient LED bulbs with battery backup for power outages. Most of our signing has been recently upgraded and in very good condition. Numerous improvements at intersections have been made over the past eleven years resulting in minimal delay at most intersections. More improvements are needed, but overall the system is in relatively good condition.

Significant Projects Constructed

Perrysburg-Holland Road Bridge (Bridge No. 1549)

This 2012 project at Perrysburg Holland Road over Swan Creek consisted of the bridge replacement, approach roadway reconstruction and widening and the realignment of an existing waterline. The project was built to accommodate a roadway width sufficient for future traffic and an improved intersection design.

Federal Funding: \$ 1,182,123 OPWC Funding: \$ 300,021 Engineer: \$ 314,138



McCord Road-Regents Park Blvd. to Central Avenue

This 2012 federal-aid project added a center Two Way Left Turn Lane throughout the project along with paved shoulders on each side of the roadway. A large storm sewer was replaced and some sidewalk was constructed along the west side.

Federal Funding: \$ 1,300,167 OPWC Funding: \$ 343,400 Engineer: \$ 214,767



Angola Road and Holland-Sylvania Road Intersection

Additional turn lanes were added and signalization was upgraded including coordination with the railroad crossing gates. The project should reduce delay and reduce the number of crashes

Federal Funding: \$ 549,779 OPWC Funding: \$ 206,039 Engineer: \$ 165,048



Significant O.D.O.T. Projects to be Constructed

2013

Corey Road at Eastbound I-475 Exit Ramp:

This project will be underway August through October of 2013. The purpose of the project is to provide some relief of congestion at the I-475 off ramp to Corey Road. The ramp will be widened to provide for exclusive right and left turn lanes, and it also will be signalized. It is necessary to improve the through northbound / southbound movement at the nearby Corey Road / Whiteford Road / Sylvania Avenue intersection to allow for a more effective signal operation at the ramp. Therefore the project includes creating an additional northbound and southbound thru lane at Sylvania Avenue. Traffic is to be maintained during construction.

The project was created from a safety study initiated by the Lucas County Engineer's Office and the City of Toledo (Nov 2011 – Oct 2012). The goal of the study was to develop short to long term projects to improve the safety and congestion of the Corey Road corridor at I-475. It was anticipated that we would be applying for FY 2017 safety funds for project recommendations. We involved ODOT District Two from the start since this corridor effects I-475. In the summer of 2012, funds were created within ODOT for congestion relief at interstate ramps. ODOT District Two submitted the medium term project for these funds and was successful. A condition of the funds was a 2013 sale of the project.

2014

Central Avenue at Holland-Sylvania Road:

This project includes construction of raised medians, right turn lane additions, traffic signal system upgrades, and other related work.

Airport Hwy at Holland-Sylvania Road:

This project includes alignment corrections, turn lane modifications, traffic signal system upgrades, and other related work.

I-475 Resurfacing:

Pavement resurfacing from US 23 to the west limit of the current project for Promedica Pkwy.

2015

I-475 / US 23 at Central Avenue Interchange:

Reconstruction of the interchange

I-475 Various Bridge Locations

Replacement of bridge decks at Angola Road, Hill Avenue, Dorr Street and Bancroft Street.

Replacement of the I-475 bridge over the Ohio Turnpike.

2012 Resurfacing Program

Fifty-two percent of the projects let to construction in 2012 were devoted to road resurfacing. The following list of roads were selected to ensure that most of the county was represented in this annual resurfacing program:

1. Brint Road (Lathrop Rd. to S.R.295)
2. Centennial Road (Sylvania Ave. to Brint Rd.)
3. Garden Road (Whitehouse-Spencer Rd. to Old State Line Rd.)
4. Garden Road (S.R. 2 to Shaffer Rd.)
5. Schadel Road (Bailey Rd. to Neowash Rd.)

Engineer: \$ 739,270



2012 O.P.W.C. Resurfacing Program

1. Angola Road (Crissey Rd. to Centennial Rd.)
2. Jeffers Road (Ludwig Rd. to Patton Rd.)
3. McCord Road (at Angola Rd.)
4. Monclova Road (Eber Rd. to Albon Rd.)
5. Sherman-White Road (Fulton-Lucas Rd. to S.R. 64)
6. Whiteford Road (Sylvania Ave. to Summerfield Rd.)

O.P.W.C. Funding: \$ 676,546
Engineer: \$ 980,286



2012 Microsurfacing Program

1. Black Road (Between Waterville-Monclova Rd. and N. Fork-Wabash Cannonball Trail)
2. Centennial Road (Hill Ave. to Dorr St.)
3. Perrysburg-Holland Road (Holland-Sylvania Rd. to McCord Rd.)
4. Salisbury Road (Albon Rd. to Stonegate Dr.)
5. Brandyway Lane (Off Salisbury Rd.-West of US23/I-475)

Monclova Twp.: \$ 45,720 Engineer: \$ 159,095
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Long Term Outlook & Needs

Our roadway system of 304 miles is currently in good condition. In 2012, we paved approximately 10.43 miles. We will pave 8.5 miles in 2013 and 7.45 miles in 2014. We can maintain our roadway system's good condition if we do 35 miles of preventative maintenance and 10 miles of rehabilitation and reconstruction miles per year within the 5-year C.I.P. **We are projecting an average of 10 miles of resurfacing and 45 miles of preventative maintenance per year for the next five years (2013 – 2017).** Depending on what other improvements are planned for any given year, road construction miles will vary.

Our bridges and culverts are in good condition as well. Many of our bridges and culverts have been replaced and/or repaired with prior road construction projects. There are currently 7 major bridge replacement projects scheduled to be let in the next 5-year period. These particular bridges will be stand alone construction projects. Matching funds from outside sources have helped increase our construction output over the past several years, and our continuous effort to secure additional matching funds for 2013 and beyond is a necessity if we are to maintain our system and try to keep up with inflation and high fuel costs. For our 5-year C.I.P budget (2013 – 2017) approximately 58% will be matching funds from other public agencies:

Federal Funds	\$14,863,000
Ohio Public Works Commission	\$ 7,939,000
Other Agencies	<u>\$ 1,016,000</u>
	\$23,818,000*

*This amount does not include the Federal dollars for the McCord Road Grade Underpass Project (see next page).

McCord Road Underpass (Update)



We have been fighting for funding on this much needed project for 12 years, now that all necessary funding has been approved, construction plans are substantially complete and right of way acquisition is underway. All buildings on six commercial properties (with red X's on the drawing - shown below) should be demolished this fall, so that utilities can be relocated before construction begins next spring. Construction is expected to begin in June 2014 and take around 3 years to complete. The first year of construction (Stage 1) is away from McCord Road so it should not disrupt traffic on McCord Road. We should know more details next spring after the project is let, but the anticipated schedule is as follows:

Stage 1 - Construction-2014

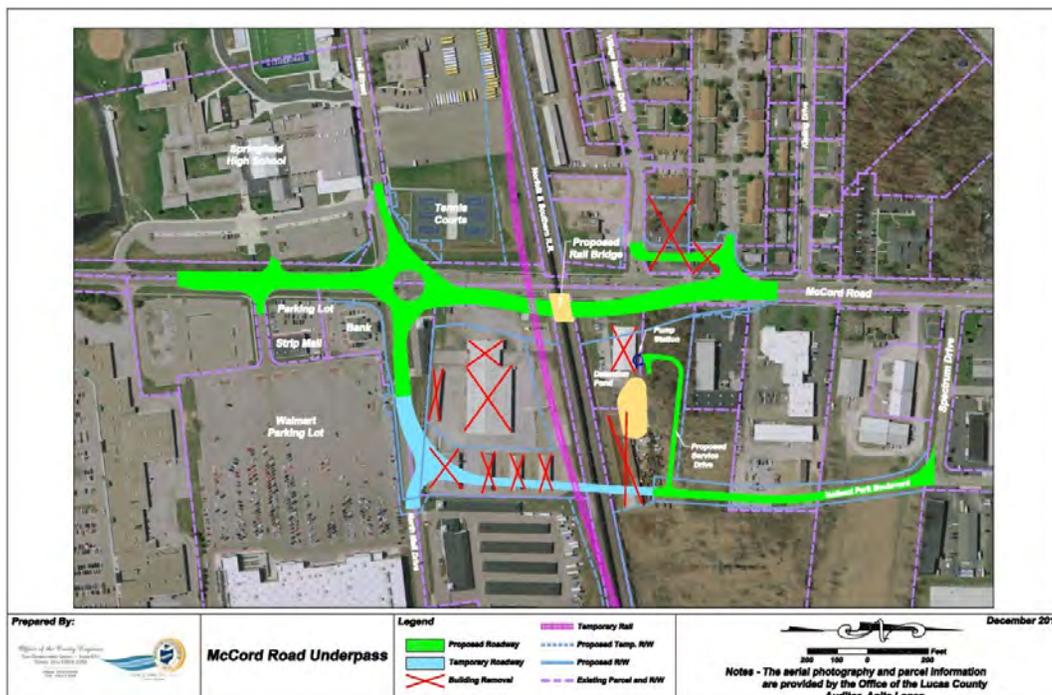
Most of the new detour road will be built in 2014. This road is the extension of Holland Park Boulevard and located about 660 feet east of McCord Road. The embankment for the temporary railroad run around will be placed 100 feet south of the existing railroad. Most construction occurring in 2014 will be off McCord Road so the disruption to traffic in 2014 should be minimal.

Stage 2 - Construction- Spring 2015

This stage is the most disruptive to traffic. The new modern roundabout, which is about 8 feet below existing grade, will be built at the intersection of McCord Road with Hall/ N. Mall during this stage of construction. Stage 2 construction and the closure of McCord Road is expected to begin in April of 2015. McCord Road thru the roundabout construction is expected to be underway in June of 2015 so that disruption to traffic during the normal school year is held to a minimum. McCord Road will be closed between the WalMart entrance and the railroad, and the new detour road will not be open yet, since the railroad crossing on the detour road will also be built during this stage of construction. McCord Road through traffic will need to take alternate routes such as Holland Sylvania Road or Holloway Road.

Stage 3 - Construction- Remainder of the Project - Fall Of 2015 thru 2016

The railroad bridge and McCord Road improvements near the railroad will be constructed during this phase, so McCord Road will be closed from north of the roundabout to Village Meadows Drive. The roundabout will be open and the new detour road will be open. The detour road will be one lane in each direction, so there could be delays during peak periods or when there are trains. Motorists, not going to the immediate area will probably find other routes more desirable.



CONSTRUCTION SUMMARY FOR 2012

Let by County Engineer

PROJECT NAME	PROJECT MANAGER	PROJECT LET DATE	CURRENT ENGINEER ESTIMATE	AWARDED CONTRACTOR	AWARDED AMOUNT
Annual Traffic Safety Program - RPM	RLM	LET 01/18/12	\$ 53,871	Traffic Specialists, Inc.	\$ 32,981.48
McCord Road Widening & Resurfacing Regents Park to Central (TWLTL)	SLR	LET 02/22/12	\$ 1,664,769	Crestline Paving & Excavating Co., Inc.	\$ 1,578,704.76
Annual Crack Seal Program (LCE only)	JSP	LET 02/22/12	\$ 225,600	D. G. Slurry Seal of Toledo, Inc.	\$ 220,560.00
2012 OPWC Resurfacing Projects Angola Rd, Jeffers Rd, McCord Rd, Monclova Rd, Sherman-White Rd, & Whiteford Rd. (5.65 miles)	JML	LET 02/29/12	\$ 1,778,007	Gerken Paving, Inc.	\$ 1,628,967.71
Perrysburg-Holland Road Bridge #1549 Replacement	BAZ	LET 02/29/12	\$ 1,504,364	Miller Bros. Construction Co.	\$ 1,438,883.11
Chip Seal Program (1 mile)	JSP	LET (Quotes) 03/05/12	\$ 17,562	Henry W. Bergman, Inc.	\$ 19,919.00
Corey Rd / Whiteford Rd / Sylvania Ave Traffic Signal Upgrade	RLM	LET 03/14/12	\$ 111,046	U.S. Utility Contractor Co.	\$ 112,890.89
Annual Bridge Repair Program Garden Road Bridge #594	BAZ	LET 03/28/12	\$ 43,427	Bridge Overlay Systems, Inc.	\$ 45,519.00
Angola Road @ Holland-Sylvania Intersection Improvement	DJP	LET 04/18/12	\$ 668,000	The Shelly Co.	\$ 572,232.03
Annual Traffic Safety Program - Traffic Signal Upgrade (14 locations)	RLM	LET 04/18/12	\$ 288,353	21 st Century Concrete	\$ 274,725.00
Albon Road Bridge #606 Replacement	BAZ	LET 05/09/12	\$ 538,581	R.G. Zachrich Construction Co.	\$ 476,149.48
2012 Annual Resurfacing Program Brint Road, Centennial Road, Garden Road & Schadel Road (3.78 miles)	JSP	LET 05/16/12	\$ 858,411	Gerken Paving, Inc.	\$ 814,184.02
Culvert #1621 Replacement Old Airport Hwy.	PMO	LET 07/11/12	\$ 46,281	PHC, Inc.	\$ 39,756.00
Annual Traffic Safety Program - Thermoplastic Pavement Markings	RLM	LET 07/11/12	\$ 52,812	Griffin Pavement Striping, Inc.	\$ 43,815.52
Microsurfacing Program (2.90 miles Co & 1.21 miles Twp)	JSP	LET 07/18/12	\$ 220,314	Roadway Services, Inc.	\$ 204,928.00
Annual Emulsified Seal Coat Program (10.61 miles)	JSP	LET 07/18/12	\$ 288,744	D.G. Slurry Seal of Toledo, Inc.	\$ 284,918.90
Culvert #1445/1446 Replacement Seaman St @ Yondota Road	PMO	LET 07/25/12	\$ 184,160	Schoen, Inc.	\$ 158,343.90
Culvert #430 Replacement Girdham Road (for Swanton Twp)	SLR	LET 08/01/12	\$ 43,201	B. Hill'z Excavating, Inc.	\$ 34,101.00
Laskey Road & Whiteford Road Storm Sewer Project	BWM	LET 08/08/12	\$ 221,459	PHC, Inc.	\$ 188,929.00
Berkey Road Resurfacing (for Spencer Twp.)	PMO	LET 09/19/2012	\$ 36,334	Bowers Asphalt & Paving	\$ 36,475.00
TOTALS			\$ 8,845,296		\$ 8,206,983.80

TOWNSHIP CONSTRUCTION SUMMARY FOR 2012
 To be bid by Township or County – Design and Inspection by County Engineer

PROJECT NAME	PROJECT MANAGER	PROJECT LET DATE	CURRENT ENGINEER ESTIMATE	AWARDED CONTRACTOR	AWARDED AMOUNT
Davis Road OPWC Reclamation & Overlay Project (Waterville Township)	JML	LET 01/25/12	\$ 299,794	Gerken Paving, Inc.	\$ 269,157.60
2012 OPWC Resurfacing Project (Sylvania Township)	SLR	LET 01/26/12	\$ 667,978	Gerken Paving, Inc.	\$ 619,654.00
The Quarry Subdivision OPWC Resurfacing Project (Monclova Township)	SLR	LET 02/03/12	\$ 647,528	Bowers Asphalt & Paving, Inc.	\$ 639,379.00
Coder Road Culvert # 686 Replacement (Monclova Township)	PMO	LET 02/03/12	\$ 65,645	Crestline Paving & Excavating, Inc.	\$ 54,959.80
Fulton-Lucas Road OPWC Resurfacing Project (Swanton Township)	SLR	LET 02/07/12	\$ 145,971	Gerken Paving, Inc.	\$ 134,670.40
Annual Crack Seal Project (bid w/ LCE) (Monclova Township)	JSP	LET 02/22/12	\$ 45,500	D.G. Slurry Seal of Toledo, Inc.	\$ 45,400.00
2012 OPWC Road Improvements (Oak Park, Huntley, Favony, Harefoote, Connelville, & Hancock) (Springfield Township)	SLR	LET 05/16/12	\$ 607,878	Bowers Asphalt & Paving, Inc.	\$ 632,573.58
Shadow Valley Subdivision Curb Replacement (Springfield Township)	SLR	LET 06/14/12	\$ 168,753	Smith Paving & Excavating, Inc.	\$ 166,775.45
Annual Microsurfacing Project (bid w/LCE) (Monclova Township)	JSP	LET 07/18/12	See LCE		
Girdham Road Culvert #430 Replacement (bid w/LCE) (Swanton Township)	SLR	LET 08/01/12	See LCE		
Lagoon Drive (Jerusalem Township)	PMO/SLR	LET 08/07/12	\$ 109,986	Geddis Paving & Excavating, Inc.	\$ 93,326.68
Berkey Road Resurfacing (Bid by LCE) (Spencer Township)	PMO	LET 09/19/12	See LCE		
TOTALS			\$ 2,759,033		\$ 2,655,896.51



Panoramic View of Centennial Road in Sylvania Township

EXPENSES

	<u>1999 – 2003</u>	<u>2004 – 2008</u>	<u>2009 – 2013</u>	<u>2014 - 2018</u>
Operating	\$ 36,011,574	\$ 33,184,708	\$ 29,747,583	\$ 30,000,000
C.I.P.	<u>\$ 43,015,029</u>	<u>\$ 46,765,736</u>	<u>\$ 62,524,630</u>	<u>\$ 44,939,000</u>
	\$ 79,026,603	\$ 79,950,444	\$ 92,272,213	\$ 74,939,000

REVENUE

Outside	\$ 18,304,734	\$ 18,171,452	\$ 30,160,808	\$ 15,065,000
Dedicated	\$ 57,409,727	\$ 62,344,807	\$ 57,619,192	\$ 59,874,000
Carry-Over/ Reserve	<u>\$ 3,312,142</u>	<u>\$ —</u>	<u>\$ 4,492,213</u>	<u>\$ —</u>
	\$ 79,026,603	\$ 80,516,259	\$ 92,272,213	\$ 74,939,000

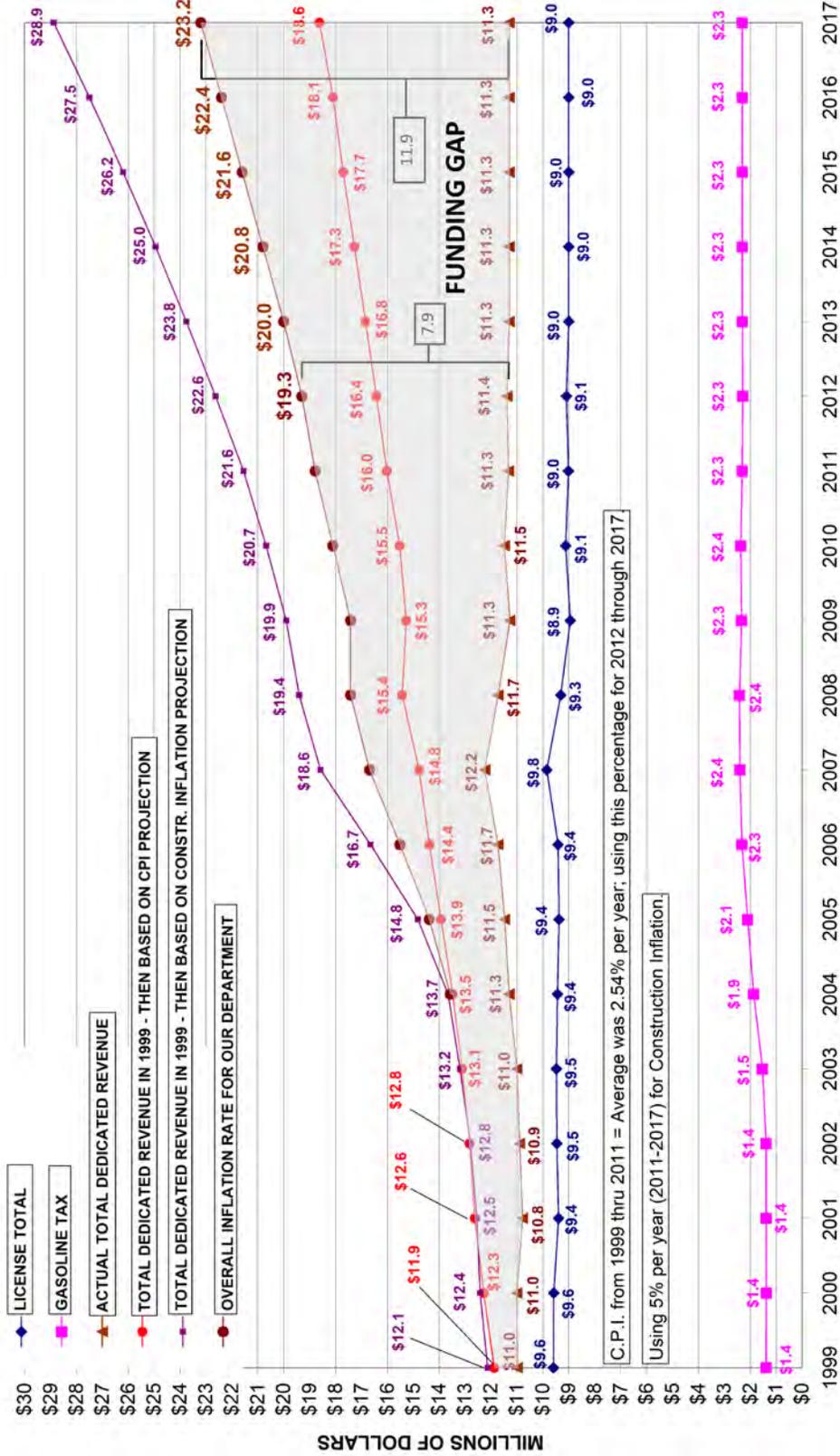
C.I.P.

	<u>1999 - 2003</u>	<u>2004 - 2008</u>	<u>2009 – 2013</u>	<u>2014 – 2018</u>
Bridge Repairs	9 (8)	6 (8)	13 (8)	6 (8)
Bridge Replacements	15 (10)	9 (10)	6 (10)	5 (10)
Road Rehabilitation/ Reconstruction	128 (100)	81 (90)*	58 (50)	52 (50)
Road Preservation	N/A	28 (35)	205 (175)	225 (175)
Drainage	11 (10)	7 (10)	15 (10)	17 (10)
Intersections	6 (4)	5 (4)	5 (2)	8 (2)
Signals/Upgrades	9 (5)	5 (5)	26 (3)	0 (3)
Safety Programs	10 (7)	12 (7)	9 (5)	5 (5)

* Roadway improvements/maintenance was split into these two categories beginning in 2008 to reflect our efforts to balance the maintenance and improvement needs of our Roadway System and declining dedicated revenues.

License/Gasoline Tax History and Projections - Gap in Dedicated Funds

All dedicated funding for Lucas County maintained roads and bridges comes from Motor Vehicle License Plate fees and a portion of the Ohio Gasoline Tax. In 2012, Lucas County received \$9.092 million from license plates, \$500,000 less than received in 1999. In 2012, Lucas County received \$2.29 million from the gas tax, making the total dedicated funding \$11.383 million, which is \$401,000 more than the \$10.982 million received in 1999, but approximately \$800,000 less compared to 2007 when the dedicated funding peaked at \$12.2 million.



While dedicated revenue has remained static or slightly declining, costs have increased considerably. The overall Consumer Price Index has increased 35% over the past 12 years, but highway construction costs have increased 78%. Since at least half of our costs are related to highway construction, we had at least a \$7.9 million (62%) shortfall in 2012 compared to our 1999 purchasing power. By 2017, that shortfall is expected to increase to \$11.9 million. We would need double our anticipated revenue in 2017.

LUCAS COUNTY PAVEMENT INFORMATION

Pavement Rankings *	2011 Miles	2012 Miles
Best: No Work	98.6	108.1
Maintenance Work	153.2	151.5
Resurface	43.3	42.4
Widening & Resurfacing	1.4	0.6
Poorest: Reconstruction	1.5	1.5
	298.0	304.1

•Includes Shared Roads with Other Jurisdictions

Pavement Work	2011 Miles	2012 Miles
Crack Seal (Contract)	32.4	38.0
Surface Seal (Contract)	9.1	13.0
Resurfacing Wide/ Resurfacing, or Reconstruction (Contract) *	14.9	17.0
TOTAL	56.4	68.0
% of System (Overall)	18.9%	22.4%

Microsurfacing Project



Centennial Road
(Hill Ave. to Dorr St.)

Width Summary	% of System
24' Wide or more	41.3%
22' to 24' Wide	19.1%
20' to 22' Wide	21.3%
18' to 20' Wide	16.6%
16' to 18' Wide	1.5%
Less than 16'	0.2%

Resurfacing Project



Angola Road
(Crissey Rd. to Centennial Rd.)

- Average Lucas County Road Width is 24 feet.
- Total lane miles 659.4 +/-.
- Approximate travel lane surface area = 4,225,806 sq. yds.
- Approximate paved berm surface area = 731,724 sq. yds.
- Average Lucas County Maintained Road ADT is 2595 vehicles per day +/-.
- 161.1 miles (53% of System) has paved asphalt berms.

LUCAS COUNTY BRIDGE INFORMATION

Summary of Structures Inspected By The Lucas County Bridge Engineer

Category		Vehicular Bridges	Pedestrian Bridges	Culverts
Inspection, Inventory and Reporting by Lucas County	Lucas County Roads	105	0	3
	Township Roads	57	0	0
	BLCC Trails	0	4	0
	Metroparks	3	4	0
	Municipalities			
	Berkey	3	0	0
	Holland	1	0	0
	Maumee	2	0	0
	Ottawa Hills	6	1	0
	Oregon	8	0	0
	Sylvania	12	1	0
	Toledo	13	0	0
	Whitehouse	3	1	1
	Subtotals	213	11	4

Inventory by Others, Cursory Inspection by Lucas County	Municipal Trails	0	1	0
	County Roads over US23/I475	6	0	0
	Municipalities			
	Toledo	1	0	0
	Whitehouse	0	1	1
	Subtotals	7	2	1

Totals	220	13	5
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General Appraisal Rating

Type of Work	GAR	Number of Bridges		Change From Last Year
		2011	2012	
None	8 or 9	72	76	UP 2
Minor Maintenance	7	50	49	DOWN 1
Major Maintenance	5 or 6	37	37	NONE
Major Rehabilitation	3 or 4	8	7	DOWN 1
Critical Condition	1 or 2	0	0	NONE
Close to Traffic	0	0	0	NONE
TOTAL		167	169	UP 2

Data includes 104 bridges on County Roads, 56 on Township Roads, 3 in Metroparks and 4 on Bike Trails.

	Lucas County	Ohio's County Average (2011 Data)
Bridges With Load Limits	1.18% 2 of 169	8.4% 2,218 of 26,368

Lucas County has 2 bridges posted for a reduced load capacity compared to state wide average of 25.2 bridges per county.



Bridge #606 on Albon Rd.

14



Bridge #1549 on Perrysburg Holland Rd.

LUCAS COUNTY CULVERT INVENTORY

Township / Location	Number on County/Bikeway Road System
Harding	12
Jerusalem	20
Monclova	35
Providence	25
Richfield	20
Spencer	21
Springfield	40
Swanton	12
Sylvania	38
Washington	2
Waterville	16
Sub-Total	241
Bike Trails	25
Total	266

PHYSICAL CONDITION		BIKE-TRAILS
Good	231	21
Fair	6	1
Poor	4	3
Critical	0	0
	241	25
	266	

Note: The above numbers represent structures with spans greater than or equal to 2'; but less than 3' with both ends open, and spans greater than or equal to 3', but less than 10' regardless of open ends.



Culvert #1445/1446 @ Yondota Rd. and Seaman Rd.
(Before 2012)



Culvert #1445/1446 @ Yondota Rd. and Seaman Rd.
(After 2012 Construction)

Lucas County Roundabout Projects

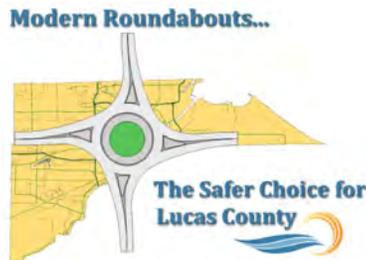
BENEFITS OF MODERN ROUNDABOUTS

According to the [Insurance Institute for Highway Safety](#) (IIHS) some of the most important benefits of the modern roundabout are:

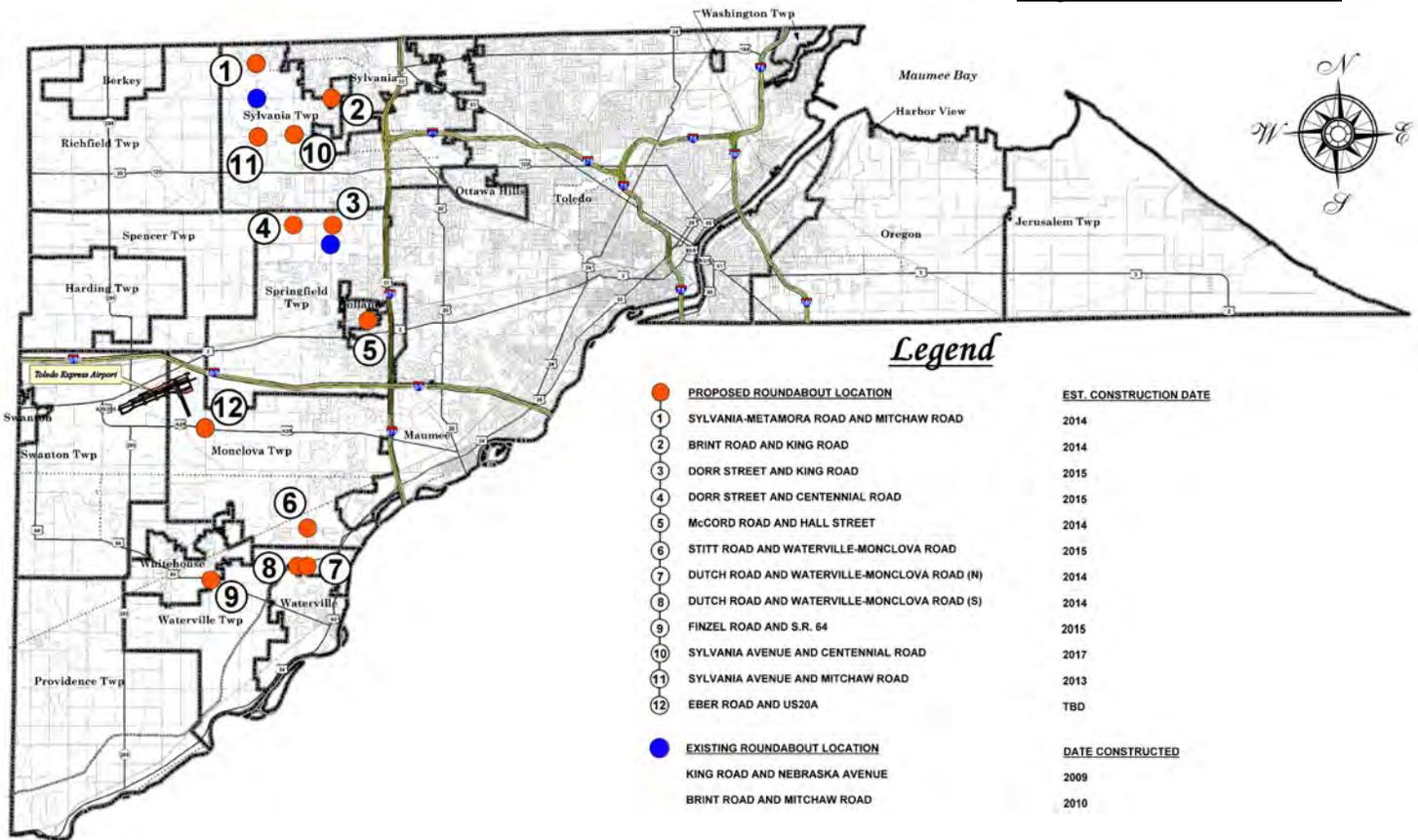
- Reduces injury accidents by 75 percent and fatal accidents by 90 percent.
- Increases efficient traffic flow up to 50 percent.
- Helps the environment by reducing carbon emissions by double digits.
- Decreases fuel consumption by as much as 30 percent.
- Costs less than widening for turn lanes & traffic signals and does not require expensive equipment or maintenance.



Brint Rd. and Mitchaw Rd.



King Rd. and Nebraska Ave.



Record Plats and Boundary Surveys On the Web

The Lucas County Engineer's Office has a record viewer application called the "Online Viewer" that allows visitors to the Engineer's website to look up record plats and boundary surveys that have been scanned and indexed. These records can be looked up by the following criteria that are available as pull down menus on the left side of the web page:

- Town-Range-Section
- Grants and Tracts
- Subdivision
- Street
- Date
- Road Document Type

Special Note-The Lucas County Engineer's Office will be offering more of it's construction and right-of-way plans and documents on the website in the very near future. The online viewer link and link to the instruction document are on the Survey web page of our website.

Working in collaboration with the City of Toledo, we have recently included over 2,800 record plats from the City, making it that much easier for visitors to be able to find a record plat they are looking for within the city limits. Not all City of Toledo record plats are available, as some were not available to our office. These City of Toledo record plats can only be searched on by the following criteria:

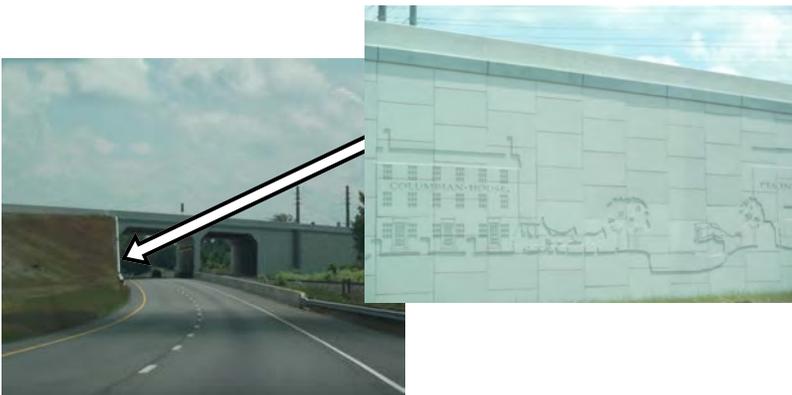
- Subdivision

The New U.S. 24 and the Old U.S. 24 (Now County Roads 53 and 3028) (Parts of the Anthony Wayne Trail and South River Road)

Since the completion of the new U.S. 24, the Ohio Department of Transportation has transferred portions of the old U.S. 24 over to the Lucas County Engineer's Office, adding to the overall County Engineer's Pavement Inventory for it's management and maintenance. Starting at the Henry-Lucas county line, heading east, County Road 3028 (S. River Rd.) begins, up to the intersection of old State Route 578 (now known as S.R. 295). From that intersection, up to the intersection of Southern-Berkey Rd. (S.R. 295 continues north), and C.R. 3028 resumes from that intersection up to the City of Waterville's corporation line. From that point, through the City of Waterville, the road is known as S. River Road until it intersects with River Road. At that intersection, the road becomes the Anthony Wayne Trail through the City of Waterville to it's corporation line. After which, it becomes County Road 53 (Anthony Wayne Trail), ending approximately 1/4 mile north of Dutch Road.

See the County Road 53 and County Road 3028 Map available under the GIS Maps web page on our website.

Retaining Wall Artwork
(Other side of overpass)



Split on U.S. 24 (to C.R. 53)

County Road 3028 (S. River Road)



County Road 53 (Anthony Wayne Trail)



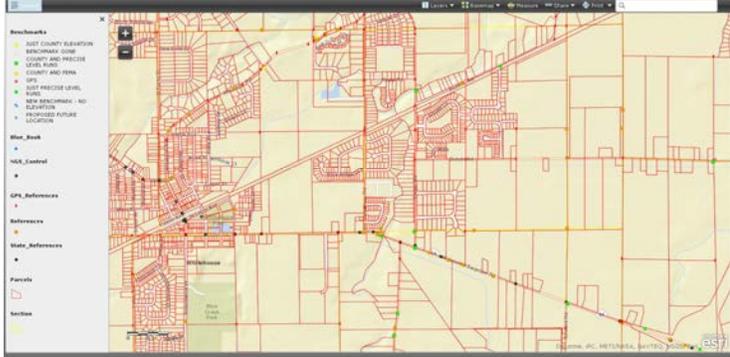
GIS News - ArcGIS Online Maps

Beginning in April 2013 we have started utilizing ArcGIS Online with ERSI. This will allow us to share our GIS data with the public over the internet more easily and have more control of how the public views this data. This web service allows our staff to make maps and update data as needed.

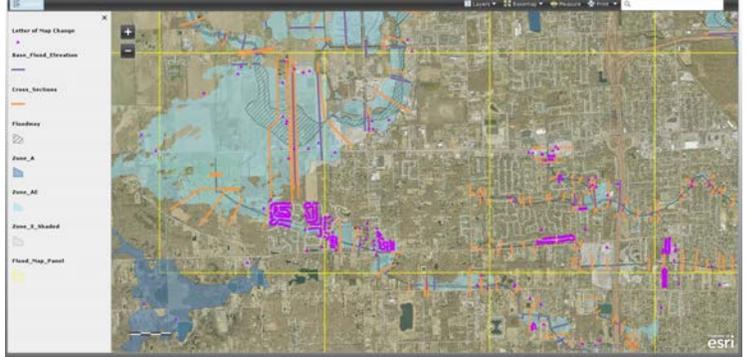
We intend to collaborate with other County Departments as well as other Agencies such as Lucas County Sanitary Engineer, Lucas County 911, TMACOG, and the City of Toledo. This will provide access to more GIS data, while providing a more cost effective means by which to perform these services.

To view our data you only need an internet connection and Internet Explorer Versions 9 or 10. Internet Explorer Versions 7 & 8 for Windows XP does not work. You can also use the latest versions of Google Chrome or Mozilla Firefox. To download the GIS files you must be a registered user of ArcGIS Online (which is free for a single user) and have ArcMap 10.1 installed on your computer. Two examples are shown below (Survey Control Points and Floodplain Maps):

Lucas County Engineer - Survey Control Points



FEMA/LCE - 2011 Digital Flood Insurance Rate Map

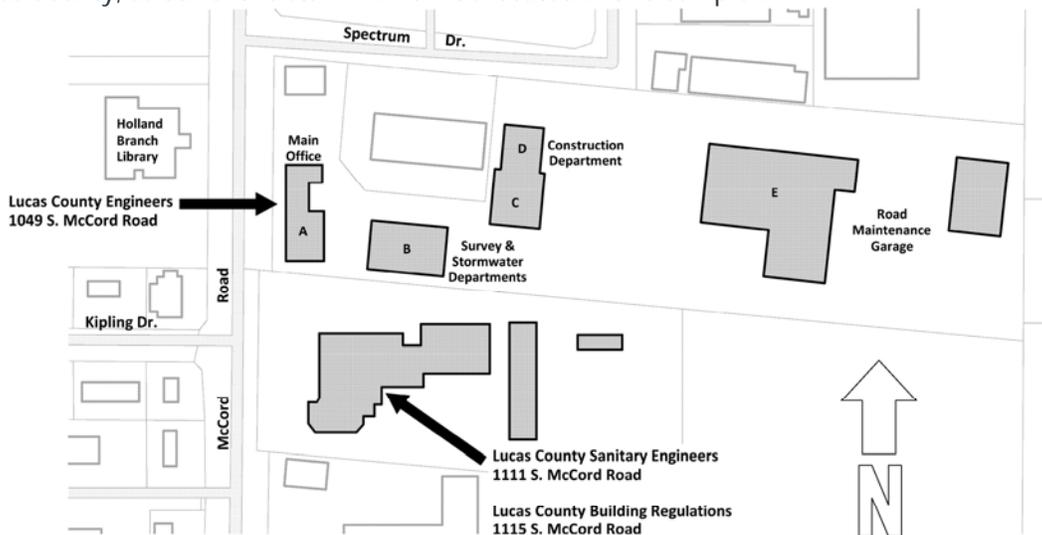


GIS News - LBRS Update

The Lucas County Engineer's Office and Lucas County EMA 911 are continuing its quality control and checking of data for the Location Based Response System (LBRS) for Lucas County. The company that collected the original data, D.D.T.I., continues to support the entire system, and will do a re-drive in 2013 to update any new constructed areas (eg.: New U.S. 24; etc.).

On the Move

The Lucas County Engineer's Office will be relocating to its new offices the Summer of 2013. These offices are located at 1049 S. McCord Road, and are next door to the Lucas County Sanitary Engineer's Office. This new location will better serve the citizens of Lucas County, as our entire staff will now be located in one complex.



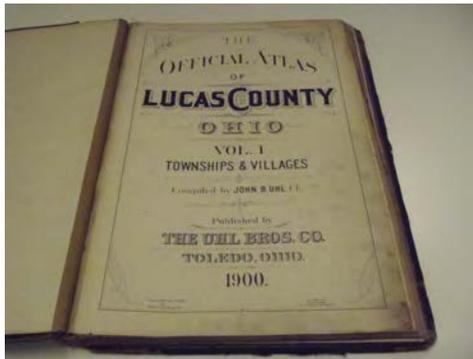
Pieces of History Rediscovered...

In August of 2012, I received a phone call from an elderly gentleman who lived in Maumee, Ohio at the time. His name is George A. Smith, and he proceeded to tell me that he had in his possession some plat books that the Lucas County Engineer's Office may be interested in having. He said he was going to be relocating from his current residence, and he had rediscovered these books while cleaning out his basement. He then told me their age, how many there were and their condition, and also included the story of how they came to be in his possession. Apparently, quite a long time ago, a friend of his parents had these plat books, and gave them to his parents, which, in turn, they gave to George. George held onto them, and had them ever since. After rediscovering them, he decided they needed a new home since he was moving from his, and so he went about looking for an official agency that would welcome them into their archive for safe keeping, and that's when he called our office. George graciously donated these books to our office to preserve these pieces of history. These books include plat maps from the City of Toledo (one is not dated, and the other was published in 1930). One is a plat book of a portion of Lucas County published in 1924. The gem of the collection is a Lucas County Atlas, copyrighted in 1899 and published in 1900 by the Uhl Brothers, (making it possibly the oldest published document that we now have on record - all maps were hand colored). As we move forward with newer technology and digital preservation of records, we must also be the stewards of records past, so they can be passed on as well to the generations to come. Thank you George.

Brian S. Miller
Computer/CADD/Records Manager



Two City of Toledo Plat Books and
a Lucas County Plat Book



1900 Lucas County Atlas
Cover of Atlas (Left) - Inside Cover (Middle) -- Overall Map of Lucas County (Right)

SERVICE AWARDS

Missy Dixon - 20 Years
Doug Parrish-10 Years



STAFF DIRECTORY

LUCAS COUNTY ENGINEER

Keith G. Earley, P.E., P.S. 213-2839

ADMINISTRATION

Administrative Deputy	Mark Drennen, MPA	213-2851
Clerical Supervisor	Missy Dixon	213-2848
Computer/CADD/Records Mgr.	Brian S. Miller	213-2852
Account Specialist	Kara Moore	213-2849
Engineering Records Technician	Sheila Marciniak	213-2874

ROAD MAINTENANCE DEPT.

Acting Superintendent	Greg Wimberly	213-2879
Acting Assistant Superintendent	Ryan Belinski	
Road Foreman	John Bowser	
Accounting Specialist	Kimberly Kettman	

DESIGN, CONSTRUCTION & TRAFFIC STAFF

Chief Deputy Engineer	Jeffery Lohse, P.E.	213-2858
Bridge Engineer	Bryan Zienta, P.E.	213-2859
Chief Surveyor	Denny Pritscher, P.S.	213-2834
Construction Engineer	Joel Palermo, P.E.	213-2840
Const. Project Supervisor	Joshua Hazard, E.I.	213-2841
Design Engineer	Patrick O'Boyle, P.E.	213-2855
Drainage Engineer	Brian W. Miller, P.E.	213-2830
Drainage & GIS	Robert Neubert	213-2832
Planning Engineer	Doug Parrish, P.E.	213-2856
R/W Coordinator	Joe Shultz	213-2864
Tax Map Supervisor	Kelly Forgette	213-4652
Township Engineer	Sarah Rowland, P.E.	213-2857
Traffic Operations Eng.	Ronald Myers, P.E.	213-2854
Traffic Operations	Kyle Warner, E.I.	213-2875

M.P.A. Masters of Public Administration

P.E. Professional Engineer

P.S. Professional Surveyor

E.I. Engineer Intern

Office Locations

Lucas County Engineer's Office
1049 South McCord Road
Holland, Ohio 43528
419-213-2860

Lucas County Engineer's Tax Map Dept.
One Government Center, Suite 770,
Toledo, Ohio 43604-2258
419-213-4652

