

**OFFICE OF THE
LOGAN COUNTY ENGINEER**

**2018 ANNUAL REPORT
2018-2019 ROAD REVIEW**

April 1, 2019



*Scott C. Coleman, P.E., P.S.
Logan County Engineer*



Bridge 174-0.56
over the Onion Ditch



McColly Covered Bridge 13-1.56
over the Great Miami River

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EMPLOYEES OF THE LOGAN COUNTY ENGINEER'S OFFICE

County Engineer

Scott C. Coleman, P.E., P.S.

Engineering Department

Michaela Brunke	Shirley Brunke	Todd Bumgardner
Donna Dahlke	Greg Dappert	Curtis D. Dill, P.S.
	Michael Kerns	

Map Room

Jayma Burkhammer	Suzie Cochran
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Highway Department

Adam Bergman	Brad Carnes	Cole Craig
Chris Hackley	Mark Hilty	Greg Kennaw
Bryan LeVan	Joel Miracle	Tracy Prater
John Spencer	Lisa Stover	Derek Thurman
Todd Wisse		TJ Yoder

Ditch Department

Allen Campbell	Todd Coleman
Greg Swonguer	Steve Tracey

Bridge Department

Matt Archer	Andrew Farris	Elliott Fullerton
Luke Jolliff		Dan McMillen

Traffic Department

Mark Dearwester

Logan County Engineer's Office

April 1, 2019

To the Honorable Board of Logan County Commissioners and the Citizens of Logan County:

The following pages contain our Annual Report for 2018. On the back page, the reader will find a breakdown of the road miles, the number of bridges on our system, and the number of signs and culverts that we maintain. Also included in this report is what we accomplished in the year 2018 and what we plan to accomplish in 2019.

This year we resurfaced 16.8 miles of county highways, chip-sealed 66 miles of county highways, replaced 1 bridge, replaced 3 large culverts, repaired 7 bridges damaged by auto accidents, and replaced 22 small culverts. We assisted the Township Trustees with the resurfacing of 17.3 miles of roads, chip-sealing another 14.4 miles, and replacing 4 culverts.

After three years of seeing road salt prices stabilize, we have seen a drastic increase in prices for the 2018-2019 winter season. Last winter we paid \$47.12 per ton for road salt and entered winter with a full stockpile. The road salt bid for this winter fill is \$84.94 per ton, which is near the highest price in the state. Due to dramatic increases like this in previous years, we have become more efficient and effective in how we utilize our labor and materials in clearing roadways of snow and ice. We have prewetting systems installed on all of our front line trucks to increase our available options for treating roadways. We have implemented the use of Beet Heet® sugar beet molasses for prewetting our salt at the rear auger. This product increases our ability to melt ice at lower temperatures. Our overall snow and ice control costs for calendar year 2018 were \$451,886.23 and were well above our average winter costs of \$369,000.

We thank the citizens of Logan County for their continued support and renewal of the 1/2% sales tax which allowed us to continue upgrading our transportation infrastructure. Sales tax revenue decreased by 1.3% in 2018. Motor vehicle fuel tax revenue increased by 1.2% and automobile registration fees increased by 1.28% in 2018. The Logan County Engineer's Office has been aggressively seeking grant funds to supplement our regular funding and sales tax funding. In 2018, we received a total of \$118,996.93 in grant funds. The grants funded sign upgrades, a no passing zone study, sign and culvert inventory database integration, and bridge 21-1.00 environmental studies and land acquisition.

The 1/2% sales tax for roads and bridges generated \$3,727,076.43 in 2018. The County portion totaled \$1,863,538.24 and the Township portion totaled \$745,415.27. The total municipal sales tax collections were \$745,415.27 and is shared among Bellefontaine and the villages based on population. Total sales tax expenditures were \$1,897,570.18 for County projects and \$668,612.12 for Township projects. The County Engineer's Office expended \$10,324.54 in 2018 to develop, administer and perform inspections for the township paving and chip-sealing and \$3,093.97 to develop the 2019 village OPWC paving program.

The Logan County Engineer's Office has been implementing shared services for many years and continue to expand them. We have performed roadside mowing, roadside spraying, sign inspections, township sign replacement, painting railroad crossing warnings, setting back mailboxes, roadside ditching, boom mowing of roadside vegetation, small paving projects, small chip seal projects, roadway shoulder stabilization, and culvert replacements for a few townships and villages. This is a mutually beneficial process where we can save the townships and villages money and offset some of our labor and equipment costs. We work with the City of Bellefontaine, villages, townships, County Commissioners, adjacent counties, and ODOT for shared services to better serve our community.

We have been working with our state legislators for the past several years to develop a long term funding source for Ohio's local roads and bridges. In Logan County, we have been very fortunate that the people of our community have agreed to invest in our local infrastructure in the form of a sales tax for roads and bridges. As shown above, this sales tax generates over three million dollars annually for the county, township, and municipal road and bridge system. This is a shortfall in state legislative highway funding that many counties in Ohio cannot make up. Please encourage our Ohio Representatives and Senators to work toward a funding solution to provide adequate highway infrastructure funding for local jurisdictions. This can be accomplished with appropriate user fees, such as; commercial activity tax from motor vehicle fuel sales, motor vehicle fuel user fees, vehicle miles travelled fees, or vehicle registration fees.

Sincerely,

Scott C. Coleman, P.E., P.S.
Logan County Engineer

The Condition of Our Highway System

We have experienced a tough winter as far as snow and ice control costs and road damage. Temperatures have been extremely cold at times and then we had temperatures fluctuating below and above freezing. This caused a high number of freeze thaw cycles and we have seen potholes develop accordingly. We continue to see several roads that have been damaged by heavy vehicles traveling on routes that they should not be using and we continue to try to correct this behavior. We encourage our residents and neighbors to try to reduce loads or delay hauling operations during the wettest weeks of the year (generally March through May). Additionally, we ask that local industry and trucking companies utilize proper haul routes when travelling through the county. Overall, our county roads are showing above normal signs of damage through this winter.

We plan to resurface 16.8 miles of roads this year and seal approximately 63.5 miles. In order to preserve our new pavements as long as possible, we must seal them as soon as we can after resurfacing. This year we will again be able to seal the new resurfacing within weeks after the roads are paved. Results over the past few years indicate that this process has been very cost effective and improves pavement performance. This year we will also work with the asphalt supplier to develop a low volume traffic mix design to provide a longer lasting and more resilient pavement. We have completed the surface course of paving on all county roads and will continue building thickness and strength with this years' resurfacing program. From 2003 through 2005, we placed only the intermediate course of pavement on many of the roads that were resurfaced. This process allowed us to repair more miles of very poor pavements each year than we could have if we had applied both courses at the same time. Since 2001 (inclusive), we have repaved over 516 centerline miles on the county highway system. We will also continue our crack sealing program to extend the service life of the roads in the county.

We continue to make strides with our bridge program. We are continuing to upgrade our overall bridge conditions with the replacement of 1 bridge, replacement of 3 large culverts, and repair of 7 bridges damaged by auto accidents. We have one bridge that has a weight restriction affecting school buses and this structure will be replaced in 2020 with a federal grant. We are excited to report that 2017 is the eleventh year in a row that we have entered the year with no bridges that are closed to traffic. This has been a goal of the Logan County Engineer's Office for many years and we are very proud to have achieved this goal for the benefit of the traveling public.

There are 11 bridges with posted load restrictions. Thirteen bridges are rated a 5 or less and many of the older structures continue to deteriorate as we replace others. Since 2001 (inclusive), we have replaced or performed rehabilitation on 127 structures. Bridge material costs have increased significantly over the last several years. In 2001, we were estimating replacement costs at \$48.00 per square foot of deck area, now we must use at least \$189 per square foot for estimating our bridge program.

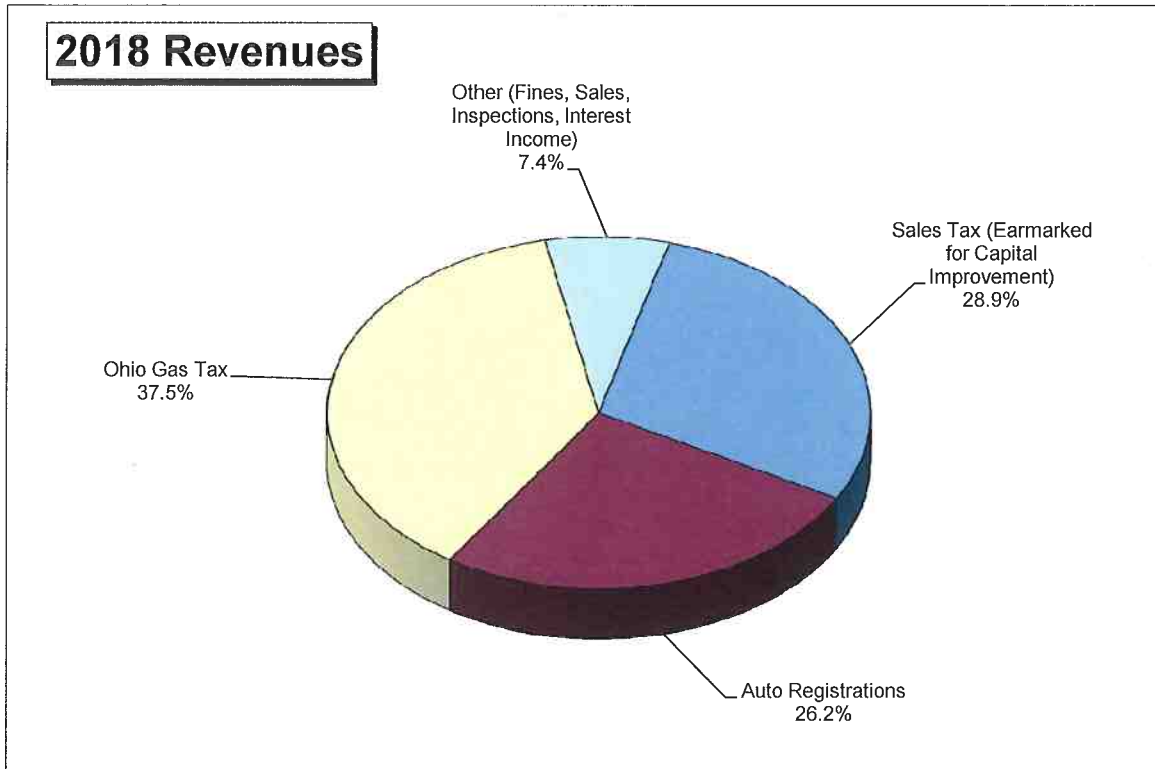
Since the force account limits for projects that we can construct with our own staff were increased in 2003, construction material costs have increased between 44 and 220 percent. We must encourage the state legislature to increase the force account limits for roads and bridges so that we can continue to save the taxpayers' money by constructing road and bridge projects with our own crews. The current force account limits are \$100,000 per bridge and \$30,000 per mile for road construction. Considering the increased construction costs and the fact that there is some debate over the interpretation of the force account legislation, these limits need to be increased to \$309,000 and \$92,700, respectively, with an annual inflation factor.

Petition Ditch Maintenance

The ditch department maintains 45 maintenance ditches. These ditches consist of 37.89 miles of open waterways, 11.96 miles of subsurface tile and 5.99 miles of grassed waterways, totaling 55.84 miles of maintained ditches.

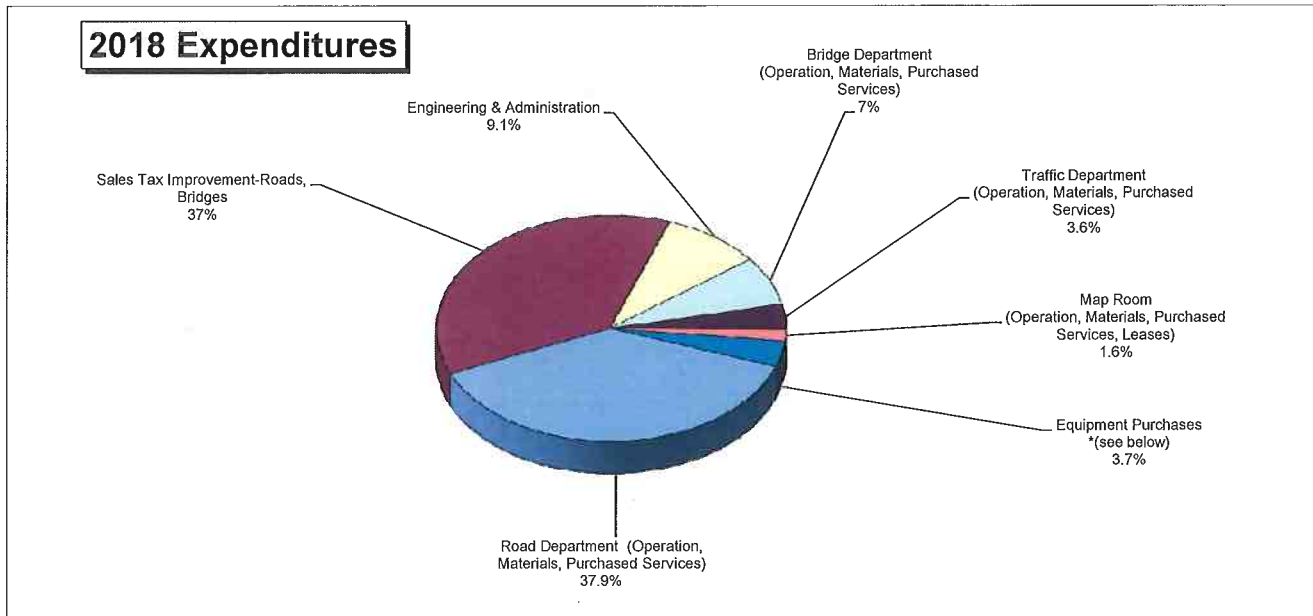
In 2018, some level of maintenance was performed on every ditch. General maintenance includes mowing, spraying, center dipping for improved flow, crossing repairs, bank slip repairs, erosion control, and tile repairs. In 2017, we spent over \$34,000 in maintenance, placed over 128 tons of dump rock/recycled concrete, replaced over 90 feet of tile, applied 157 gallons of liquid herbicide, and 11.4 pounds of dry herbicide.

2018 Revenues		
Sales Tax (Earmarked for Capital Improvement)	28.9%	\$ 1,863,538.24
Auto Registrations	26.2%	\$ 1,687,822.03
Ohio Gas Tax	37.5%	\$ 2,417,403.95
Other (Fines, Sales, Inspections, Interest Income)	7.4%	\$ 478,662.92
OPWC Funds	0.0%	\$ -
Belle Center Amish Church Community - Voluntary Contribution	0.1%	\$ 4,120.00
Total		\$ 6,451,547.14



2018 Sales Tax	
County Carryover from 2017	\$ 1,502,702.67
Township Carryover from 2017	\$ 752,669.87
Income - County 2018	\$ 1,863,538.24
Income - Township 2018	\$ 745,415.27
Expenditures	
Township Sales Tax Resurfacing Program and Chip/Seal	\$ 2,566,182.30
County Sales Tax Resurfacing Program (including culverts)	
Bridge 86-2.87	
Bridge 37-3.60	
Culvert 10-11.11	
	\$ 1,897,570.18
2018 County Carryover	\$ 1,468,670.73
2018 Township Carryover	\$ 829,473.02
Total Carryover	\$ 2,298,143.75

2018 Expenditures		
Road Department (Operation, Materials, Purchased Services)	37.9%	\$2,624,076.00
Sales Tax Improvement-Roads, Bridges	37.0%	\$2,566,182.30
Engineering & Administration	9.1%	\$630,374.05
Bridge Department (Operation, Materials, Purchased Services)	7.0%	\$485,834.36
Traffic Department (Operation, Materials, Purchased Services)	3.6%	\$249,800.90
Map Room (Operation, Materials, Purchased Services, Leases)	1.6%	\$114,196.92
Equipment Purchases* (see below)	3.7%	\$257,402.32
Capital Improvements	0.0%	\$0.00
OPWC (including local matching funds)	0.0%	\$0.00
Total		\$6,927,866.85



*Major Equipment Purchased in 2018		
Traffic Counters	\$	2,212.00
4 chainsaws and blower	\$	1,009.84
3000 Landa Pressure Washer	\$	8,256.13
Fuel Management System	\$	13,059.51
Map Room Plotter	\$	4,497.80
Radar Units for Sheriff's Department	\$	7,180.00
TV & Wall Bracket for Conference Room	\$	367.56
Synology 4 Bay Network Server	\$	549.99
Toro Utility Vehicle for Ditch Inspections and Maintenance	\$	6,800.00
Troyers Chain Saw	\$	452.92
Trench Box - Used	\$	6,500.00
Prewet System for new dump truck	\$	2,997.00
4 Drivers Bay Stations NAS drive for Office	\$	1,941.18
International Truck	\$	89,535.76
Dump Body	\$	52,639.00
John Deere Tractor	\$	59,103.63
Bed Tarps	\$	300.00
Total	\$	257,402.32

2018 ROAD PROGRAM

The Highway Department is responsible for all Force Account projects (non-contract work performed by County Engineer employees), snow and ice control, berm repair, pavement patching, washout repairs, guardrail repair, mowing, and other general/seasonal maintenance of county roads and bridges. This department also works closely with the townships on various maintenance needs on their road systems. The Highway Department was extremely busy in 2018, working ahead for the 2019 road program in addition to their normal maintenance duties. The costs listed include labor (based on hourly wages of workers and all benefits), amortized equipment, and materials (asphalt and berming stone).

Review of Miscellaneous 2018 Expenses				
	Labor	Amortized Equipment	Materials and Contractor Work	Total
Mowing	\$ 71,982.63	\$ 87,750.59	\$ -	\$ 159,733.22
Roadside Spraying	\$ 9,953.81	\$ 2,300.87	\$ 6,377.30	\$ 18,631.98
Durapatching	\$ 9,528.91	\$ 7,951.16	\$ 6,006.00	\$ 23,486.07
Crack Sealing	\$ 15,851.59	\$ 1,615.38	\$ 12,892.00	\$ 30,358.97
Tree & Brush Removal	\$ 117,684.24	\$ 69,037.45	\$ 191.10	\$ 186,912.79
Culvert Repair & Replacement (not related to resurfacing)	\$ 12,764.97	\$ 9,238.15	\$ 9,837.92	\$ 31,841.04
Sign Repair	\$ 23,764.73	\$ 6,468.62	\$ 24,674.47	\$ 54,907.82
Sign Repair (Vandalism)	\$ 2,809.81	\$ 704.95	\$ 2,656.89	\$ 6,171.65
Snow and Ice Control	\$ 112,678.83	\$ 114,935.57	\$ 224,271.83	\$ 451,886.23

2018 County Paving Program Completed Sales Tax			
ROAD #	Begins	Ends	Total Cost
CR 18	TR 45 W	CR 43 W	\$123,639.68
CR 21	CR 77 W	SR 274	\$494,106.64
CR 31	CR 43	CR 11	\$29,808.84
CR 96	SR 117	CR 97 New Richland	\$176,854.14
CR 111	CR 101	CR 112 S & TR 112 N	\$205,944.85
CR 153	SR 287	Union Co Line	\$290,040.35
CR 124	CR 142	Logan-Union Co Line	\$101,423.53
CR 277	Logan-Union Co Line	CR 153	\$84,729.92
Temp. Pavement Marking			\$1,652.28
Grand Total			\$1,508,200.23

2018 County Chip and Seal Program Completed						
Road	Begins	Ends	Labor	Equipment	Materials	Total
5	SR 47 & TR 273 W resume	CR 26 E				
5	CR 26 E	CR 136 W				
5	CR 136 W	CR 118 W	\$ 5,291.45	\$ 4,508.29	\$ 50,200.93	\$ 60,000.67
5	CR 118 W	CR 20				
10	SR 292 resume	CR 154				
10	CR 154	CR 142 S				
10	CR 142 S	TR 143	\$ 2,498.97	\$ 2,238.39	\$ 30,034.34	\$ 34,771.70
10	TR 143	Logan/Union Co. Line				
12	SR 292 & CR 8	TR 127	\$ 1,790.70	\$ 1,581.43	\$ 18,650.55	\$ 22,022.68
12	TR 127	SR 47				
24	N Corp. Line DeGraff	TR 43 E				
24	TR 43 E	SR 47 Logansville				
24	SR 47 Logansville	CR 21 W & TR 21 E	\$ 6,363.62	\$ 4,479.15	\$ 58,819.02	\$ 69,661.79
24	CR 21 W & TR 21 E	TR 207 E				
24	TR 207 E	TR 207 W				
24	TR 207 W	SR 235				
25	CR 5	SR 540 Suspend				
25	CR 9	Penn Central RR	\$ 6,031.34	\$ 5,721.50	\$ 48,294.27	\$ 60,047.11
25	Penn Central RR	TR 37 W				
25	TR 37 W	SR 274				
28	CR 29 Pickreltown	CR 291	\$ 1,282.58	\$ 964.14	\$ 12,329.59	\$ 14,576.31
32	CR 118 W	N Line Penn Central RR Corp				
32	N Line Penn Central RR Corp	SR 47 City				
32	SR 47 City	Bellefontaine Corp	\$ 3,378.86	\$ 2,228.55	\$ 21,187.23	\$ 26,794.64
32	Bellefontaine Corp	Bridge 32-5.60				
32	Bridge 32-5.60	CR 13				
32	CR 13	CR 130				
39	TR 100 W McArthur/Richland	CR 105 E				
39	CR 105 E	CR 97 New Richland				
39	CR 97 New Richland	CR 259 New Richland	\$ 4,442.09	\$ 3,619.02	\$ 29,249.41	\$ 37,310.52
39	CR 259 New Richland	CR 49 S & TR 49 N				
39	CR 49 S & TR 49 N	TR 51 S				
39	TR 51 S	S Corp Belle Center				
44	TR 160 SE	SR 559	\$ 4,054.70	\$ 3,384.97	\$ 23,092.93	\$ 30,532.60
44	SR 559	CR 277				
47	SR 245	TR 174 W				
47	TR 174 W	CR 173 W				
47	CR 173 W	CR 1				
47	CR 1	TR 166	\$ 6,060.77	\$ 4,944.37	\$ 46,500.50	\$ 57,505.64
47	TR 166	TR 165 N				
47	TR 165 N	TR 178 S				
47	TR 178 S	CR 29 End				
55	CR 29	Carriage Hill W				
55	Carriage Hill W	Mt Crest E	\$ 2,158.73	\$ 1,860.60	\$ 21,482.65	\$ 25,501.98
55	Mt Crest E	TR 182 E				
55	TR 182 E	CR 10				
57	CR 130	US 33	\$ 1,246.00	\$ 848.25	\$ 6,393.10	\$ 8,485.35
62	Champaigne/Logan Co Line	Leave Twp Line				
62	Leave Twp Line	TR 295 W	\$ 2,651.19	\$ 2,085.06	\$ 14,380.64	\$ 19,116.89
62	TR 295 W	SR 508				
64	Logan/Champaigne Co Line	TR 295				
64	TR 295	TR 71 W	\$ 2,570.72	\$ 1,870.67	\$ 19,897.50	\$ 24,338.89
64	TR 71 W	CR 63				
68	Logan/Champaigne Co Line	SR 706	\$ 627.98	\$ 461.77	\$ 7,814.05	\$ 8,903.80
70	CR 4 Logan/Shelby Co Line	W Corp Line Quincy	\$ 1,746.44	\$ 1,334.92	\$ 17,722.61	\$ 20,803.97
73	Logan/Shelby Co Line	TR 23 N	\$ 1,726.98	\$ 1,346.40	\$ 18,608.35	\$ 21,681.73
73	TR 23 N	CR 34				
74	CR 23	CR 34 N End	\$ 998.86	\$ 709.95	\$ 8,760.14	\$ 10,468.95
82	CR 83	W Corp Line Lakeview	\$ 446.37	\$ 301.40	\$ 2,539.45	\$ 3,287.22
83	SR 720	CR 82 E	\$ 720.73	\$ 493.40	\$ 4,471.75	\$ 5,685.88
106	SR 638	CR 105 W				
106	CR 105 W	SR 638	\$ 1,892.10	\$ 1,595.89	\$ 12,279.78	\$ 15,767.77
106	Belle Center Corp	Logan/Hardin Co Line				
119	SR 292	CR 120	\$ 838.25	\$ 764.80	\$ 10,885.25	\$ 12,488.30
120	CR 26	CR 119 W				
120	CR 119 W	CR 20	\$ 2,910.64	\$ 2,691.87	\$ 20,356.11	\$ 25,958.62
120	CR 20	CR 48 End				
125	SR 47	Logan/Union Co. Line	\$ 1,061.04	\$ 966.79	\$ 8,133.75	\$ 10,161.58
130	Bellefontaine Corp	Bellefontaine Corp N				
130	Bellefontaine Corp N	CR 13 Left				
130	CR 13 Left	CR 32 Left				
130	CR 32 Left	TR 218 Right	\$ 6,147.73	\$ 4,612.20	\$ 65,607.43	\$ 76,367.36
130	TR 218 Right	CR 91 Left				
130	CR 91 Left	Super Foods Drive				
130	Super Foods Drive	CR 57 Right				
130	CR 57 Right	CR 39 Right				
130	CR 39 Right	TR 56				
130	TR 56	CR 37				
130	CR 37	US 33 Ramp End				
146	CR 29 W & TR 29 W	TR 147 N	\$ 1,488.90	\$ 1,387.90	\$ 17,622.50	\$ 20,499.30
146	CR 147 N	CR 153				
153	Zanesfield Corp	CR 28 S & SR 292				
153	CR 28 S & SR 292	US 33				
153	US 33	TR 147 S				
153	TR 147 S	TR 145 N	\$ 6,923.10	\$ 5,854.91	\$ 65,860.18	\$ 78,638.19
153	TR 145 N	CR 146 S				
153	CR 146 S	CR 144 N				
153	CR 144 N	TR 243 S				
153	TR 243 S	TR 29 S				
153	TR 29 S	CR 152 / Urbana St				
153	CR 152 / Urbana St	SR 287				
158	SR 559	TR 157 NE	\$ 1,358.51	\$ 1,128.70	\$ 20,694.28	\$ 23,179.49
158	TR 157 NE	SR 287 Middleburg				
200	CR 18	RR	\$ 1,215.21	\$ 1,085.30	\$ 5,195.00	\$ 7,495.51
291	Valley Hi Corp	CR 28	\$ 744.70	\$ 602.50	\$ 1,913.45	\$ 3,260.65
Total Chip & Seal Program						\$ 835,315.09

2019 TENTATIVE ROAD PROGRAM

We have reviewed each road on the program for needed culvert replacements, bridge replacements and/or repairs, drainage problems, etc. As of March 1, 2019, the proposed resurfacing and chip-seal programs for the County are as follows:

2019 Proposed County ST Resurfacing Program					
Road #	Begins	Ends	Road #	Begins	Ends
53	SR 274	CR 52 End	60	Logan-Shelby Co Line	TR 23
58	Logan-Shelby Co Line	CR 23 S & TR 23 N	60	TR 23	TR 34 S
58	CR 23 S & TR 23 N	CR 34	60	TR 34 S	CR 35
58	CR 34	TR 35 N	60	CR 35	TR 53 N
58	TR 35 N	CR 21	60	TR 53 N	TR 53 S
58	CR 21	TR 207	60	TR 53 S	CR 21 Bloom Center
59	Logan-Shelby Co Line	TR 23 S	60	CR 21 Bloom Center	TR 79 S
59	TR 23 S	TR 23 N	60	TR 79 S	CR 54 End
59	TR 23 N	TR 34 N	113	SR 638 Leave	US 68
59	TR 34 N	CR 34 N	113	CR 101 & CR 111	SR 638 Enter
59	CR 34 N	CR 35 N	105	CR 39 New Richland	CR 49
59	CR 35 N	TR 35 S	105	CR 49	Entrance Northwood Stone
59	TR 35 S	TR 53 N	105	Entrance Northwood Stone	CR 106 Northwood
59	TR 53 N	CR 21			

Note: Some sections of roads may be non-performed in order to stay within budget.

2019 PROPOSED COUNTY CHIP SEAL PROGRAM					
Road #	Begins	Ends	Road #	Begins	Ends
91	CR 54 Lewistown	TR 33 S	171	SR 245	TR 166
91	TR 33 S	TR 31 S	171	TR 166	TR 169 S
91	TR 31 S	TR 31 N	171	TR 169 S	TR 169 N
91	TR 31 N	TR 46 N	171	TR 169 N	CR 28
91	TR 46 N	TR 46 S	15	CR 44	SR 287 & CR 41
91	TR 46 S	Penn Central RR	44	CR 15	TR 160 SE
91	Penn Central RR	CR 130 End	28	CR 41 E	CR 168 W
255	SR 235	SR 235	168	Logan-Champaign Co Line	CR 28
31	Logan-Champaign Co Line	SR 508	29	CR 1	TR 179 N
31	SR 508	TR 30 Suspend	29	TR 179 N	TR 55
30/31	CR 31 S	CR 31 N	29	TR 55	CR 5 suspend
31	TR 30 resume	TR 45	29	CR 5 resume	TR 166 S
31	TR 45	CR 43	29	TR 166 S	CR 47 S
31	CR 43	CR 11	29	CR 47 S	CR 28 Pickrelltown
202	Logan-Champaign Co Line TR 263	SR 508	29	CR 28 Pickrelltown	CR 146
11	E Corp DeGraff	TR 45 E	5	CR 25	CR 2
11	TR 45 E	CR 43 E	5	CR 2	SR 540
11	CR 43 E	TR 43 W	121	SR 292 & CR 40 Ridgeway	Penn Central RR
43	CR 11	TR 33 Pleasant & Union Twp Line	121	Penn Central RR	TR 138
43	TR 33 Pleasant & Union Twp Line	CR 31	121	TR 138	Logan-Union Co Line
43	CR 31	TR 46 N	117	SR 292	CR 142 S
43	TR 46 N	TR 201 N	117	CR 142 S	TR 138 N
43	TR 201 N	TR 201 S	117	TR 138 N	TR 138 S
43	TR 201 S	TR 198	117	TR 138 S	Union Co Line
43	TR 198	CR 18	259	CR 97 New Richland	CR 39 New Richland
11	CR 31 S & TR 31 N	TR 46	38	CR 254 W resume	SR 117
11	TR 46	TR 201 S	49	CR 57	TR 37
11	TR 201 S	TR 198 S	49	TR 37	SR 274
11	TR 198 S	TR 204 S	9	SR 47 resume	TR 219 W
11	TR 204 S	TR 32	9	TR 219 W	TR 57
11	TR 32	Bellefontaine Corp Change	9	TR 57	CR 25
18	SR 508 & TR 18	TR 30	9	CR 25	TR 223 E
18	TR 30	TR 45 W	9	TR 223 E	CR 118 E
18	CR 43 W	Union & Liberty Twp Line TR 32 S	9	CR 118 E	Penn Central RR
18	Union & Liberty Twp Line TR 32 S	TR 200 W	9	Penn Central RR	S Corp Line Rushsylvania
18	TR 200 W	CR 200			
18	CR 200	CR 11 End			
1	SR 245 & SR 287	CR 47			
1	CR 47	CR 5			
1	CR 54 Lewistown	TR 30			
1	TR 30	TR 190			
1	TR 190	TR 55			
1	TR 55	TR 199			
1	TR 199	CR 29			
1	CR 29	Dorothy Lane Right			
1	Dorothy Lane Right	TR 181 E			
1	TR 181 E	Bellefontaine Corp Change			

Note: Some sections of roads may be non-performed in order to stay within budget.

2018 BRIDGE PROGRAM

Our bridge crew had another great year as they completed many projects that included one bridge replacement and three large culvert replacements. In addition to this, they were busy cleaning, painting and repairing structures (this repair work includes the repair of seven bridges damaged by vehicles). The Bridge Crew also spent considerable time removing trees along the right-of-ways of the roads and they also performed snow and ice control when needed.

County Road 5-20.35 (Rushcreek Twp.): Paint beams and repair backwall
County Road 10-11.11 (Perry Twp.): Large culvert replacement
County Road 34-4.78 (Pleasant Twp.): Bridge replacement
County Road 35-1.13 (Bloomfield Twp.): Large culvert replacement
County Road 39-4.93 (Richland Twp.): Paint piers
County Road 111-2.17 (Rushcreek Twp.): Large culvert replacement
Township Road 136-0.88 (Rushcreek Twp.): Bridge repair
Township Road 258-0.60 (Zane Twp.): Paint beams

2019 TENTATIVE BRIDGE PROGRAM

The 2019 Bridge Program continues the commitment of prioritizing bridge replacements and rehabilitation based on the condition of the structures. The County infrastructure will continue to be re-evaluated periodically and changes to this program are likely to occur in order to achieve our dedication to repair or replace the structures and highways in the worst condition first.

As of February 22, 2019, the proposed Bridge Program is as follows:

County Road 5-20.35 (Rushcreek Twp.): Backwall repair
County Road 11-0.14 (Miami Twp.): Mill, waterproof and repave
County Road 20-6.53 (Bokes Creek Twp.): Concrete Deck Sealing
Township Road 23-6.59 (Bloomfield Twp.): Painting
County Road 53-4.56 (Stokes Twp.): Large culvert replacement
Township Road 56-2.99 (McArthur Twp.): Concrete Deck Sealing
County Road 61-0.94 (Washington Twp.): Mill, waterproof and repave
County Road 65-1.85 (Miami Twp.): Sealing
County Road 70-0.28 (Miami Twp.): Painting
County Road 105-0.80 (Richland Twp.): Concrete Deck Sealing
County Road 120-1.54 (Bokes Creek Twp.): Mill, waterproof and repave

ADMINISTRATIVE STAFF SUPPORT

This department manages the overall office functions and budget of the Engineer's Office. Since the cost for construction, materials, and equipment are increasing faster than local revenues, the utilization of alternate funding sources is critical to the office. As such, the department administers the Ohio Public Works Commission's State Capital Improvement Program (SCIP) and the Local Transportation Improvement Program (LTIP) for Logan County. The allocation and accounting of these annual funding sources are a significant function of the Engineer's office.

Other responsibilities of the administrative and support staff are human resources, payroll, purchasing requisitions, billing, word processing, contract administration and cost-tracking. Utilizing our cost-tracking system, all of the costs for the Engineer's Office are logged including the costs for surveying, engineering, administration, road work and construction of bridges. Equipment costs are amortized, while the labor costs include all fringes and benefits. In addition to all of the aforementioned accounting functions, this department also handles daily calls from the public and addresses the questions/problems directly or forwards them to the appropriate person.

DESIGN/ENGINEERING

This department performs the engineering design for approximately 95% of the construction projects and directs specialized consultants for the engineering design of the remaining projects. Most of the staff design is done with a Computer Aided Design and Drafting (CADD) system. This department also oversees much of the administrative responsibilities.

TRAFFIC/DITCH DEPARTMENTS

The Traffic Department is responsible for the maintenance of all road signs on county roads and bridge signs on township roads. Road signs now number 7,148. The maintenance of these signs includes installation, preservation and inspection. As part of the inspection process, we look for reflectivity, wind damage, vandalism and overall visibility. Repairing mailboxes damaged during snow removal operations is another part of the Traffic Department's responsibilities along with signing for road closure detours. The Routemarkers' main duty is to keep traffic moving safely and to keep the traveling public informed. The Ditch Department maintains 37.89 miles of open waterways, 11.96 miles of subsurface tile and 5.99 miles of grassed waterways.

COURTHOUSE DUTIES

It is the responsibility of the Map Room to maintain all of the county tax maps providing the County Auditor with an accurate tax base for each parcel. This includes creating new property splits, assigning new parcel numbers and adjusting property lines and acreages as reflected from new surveys. Both digital and shape file updates are performed regularly to keep the maps & the websites as current as possible. Along with these duties, the Map Room assists the various needs of surveyors, attorneys, realtors, other governmental agencies and the public, maintains the house numbering system for the unincorporated areas of the county for the 911 system, reviews new surveys & approves descriptions on legal documents.

In 2018, the Map Room Staff checked legal descriptions on 2,655 real estate documents. There were 2,057 deeds, 461 Affidavits, 57 Certificates of Transfer, 50 easements and 30 land contracts. Additionally, 2 annexation plats were approved and recorded, one condominium plat and 5 ODOT highway plats. New property splits totaled 122 for the year with 87 additional documents being recorded with new survey descriptions.

Surveyors submitted 313 new legal descriptions that were reviewed, approved, scanned and filed by the Map Room personnel. In addition, 54 new house numbers were entered into the 911 system. A total of 1,452 parcels were adjusted on the maps to reflect the new property splits and surveys.

The records of the Map Room can be found on the Logan County Engineer's Office website at: www.lceo.us.

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EXECUTIVE SUMMARY

368.384 Miles of County Road

As of 12/4/18

295 Bridges

11 Have Load Reductions Posted

4 Have a Sufficiency Rating Less Than 50%

7,148 Traffic Signs

1,684 Culverts

Excellent/Good Condition - 1,484

Fair/Poor/Unknown Condition - 200

MOTOR VEHICLE REGISTRATIONS

Vehicle registration fees are a significant source of revenue for the Engineer's Office.

2018 Logan County, Ohio Motor Vehicles Registrations			
Type of Registration	# of Units	2017 # of Units	2016 # of Units
Passenger Cars	36,784	35,216	36,779
Motor Homes	363	337	326
Motorcycles	2,662	2,699	2,743
House Vehicles	1,090	1,042	967
Mopeds	13	14	13
Unconventional Vehicles	1,024	988	0
Non-Commercial Trailers	6,297	6,198	5,951
Non-Commercial Trucks	11,254	11,007	10,963
Farm Truck	343	377	341
Buses	39	41	39
Commercial Trailers	2,143	2,175	2,214
Non IRP Trucks (Intl. Reg. Plan)	2,070	1,957	1,957
IRP Trucks (Intl. Reg. Plan)	370	365	203
Total Vehicle Registrations	64,452	62,416	62,496

SOURCE: State of Ohio, Bureau of Motor Vehicles