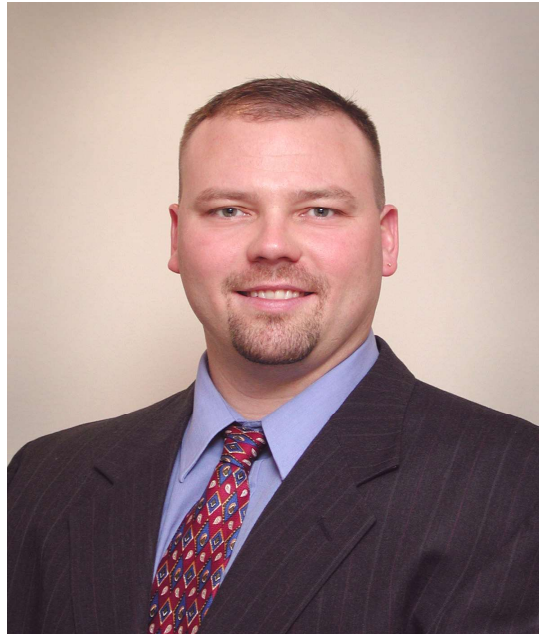


**OFFICE OF THE  
LOGAN COUNTY ENGINEER**

**2019 ANNUAL REPORT  
2019-2020 ROAD REVIEW**

*April 1, 2020*



*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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<b>EMPLOYEES OF THE LOGAN COUNTY ENGINEER'S OFFICE</b>		
<b>County Engineer</b>		
Scott C. Coleman, P.E., P.S.		
<b>Engineering Department</b>		
Michaela Brunke Donna Dahlke	Shirley Brunke Greg Dappert Michael Kerns, P.E.	Todd Bumgardner Curtis D. Dill, P.S.
<b>Map Room</b>		
Jayma Burkhammer		Suzie Cochran
<b>Highway Department</b>		
Adam Bergman Mark Hilty Joel Miracle John Spencer Bryan Wilhelm	Chris Hackley James Jones Tracy Prater Lisa Stover Todd Wisse	Andy Hayter Bryan LeVan Joe Rose Derek Thurman TJ Yoder
<b>Ditch Department</b>		
Allen Campbell Greg Kennaw	Todd Coleman Greg Swonguer	Cole Craig Steve Tracey
<b>Bridge Department</b>		
Matt Archer Luke Jolliff	Andrew Farris	Elliott Fullerton Dan McMillen
<b>Traffic Department</b>		
Mark Dearwester		

## Logan County Engineer's Office

April 1, 2020

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

The following pages contain our Annual Report for 2019. 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 2019 and what we plan to accomplish in 2020.

This year we resurfaced 16.75 miles of county highways, chip-sealed 65 miles of county highways, replaced 1 bridge, replaced 2 large culverts, and made flood damage repairs at 17 locations. We assisted the Township Trustees with the resurfacing of 17.3 miles of roads, chip-sealing another 34 miles, and replacing 3 culverts. We also assisted the villages with 8.5 miles of resurfacing using Ohio Public Works Commission funding

Once again, we have seen a significant increase in prices for the 2019-2020 winter season. Last winter we paid \$84.94 per ton for road salt and entered winter with a full stockpile. The road salt bid for this winter fill is \$87.94 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 Heat® 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 2019 were \$498,378.11 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 2.7% in 2019. Motor vehicle fuel tax revenue increased by 21.6% (the new motor vehicle fuel tax went into effect in July) and automobile registration fees decreased by 0.005% in 2019. The Logan County Engineer's Office has been aggressively seeking grant funds to supplement our regular funding and sales tax funding. In 2019, we received a total of \$20,325.40 in grant funds. The grants funded Bridge 21-1.00 land acquisition and bridge load ratings. We also acquired \$ 718,936.55 of OPWC grants for the village paving program.

The 1/2% sales tax for roads and bridges generated \$3,624,897.07 in 2019. The County portion totaled \$1,812,448.56 and the Township portion totaled \$724,979.41. The total municipal sales tax collections were \$724,979.42 and is shared among Bellefontaine and the villages based on population. Total sales tax expenditures were \$2,555,751 for County projects and \$620,488.38 for Township projects. The County Engineer's Office expended \$3,771.72 in 2019 to develop, administer and perform inspections for the township paving and chip-sealing and \$5,011.80 to develop, administer and perform inspections for 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, sign post driving, painting railroad crossing warnings, setting back mailboxes, roadside ditching, boom mowing of roadside vegetation, small paving projects, small chip seal projects, roadway shoulder stabilization, guardrail repair/replacement, dura-patching, 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. Thanks to Governor Mike DeWine and the state legislature for passing the motor vehicle fuel tax increases in 2019. This will go a long way to fix the statewide shortfall in local highway funding. It is estimated that each county will receive an additional \$ 1.5 million annually from the increase and each township will receive an additional \$ 56,729 annually. Local municipal revenues vary by size of the community, Bellefontaine is estimated to receive an additional \$297,351 annually. When compared to the local sales tax revenue, the fuel tax increase will generate roughly \$ 300,000 less for the county and \$ 125,000 less for municipalities. On the township side, some townships will do better and some will do worse with the new fuel tax versus the local sales tax. Overall, this means that new fuel tax is not adequate to replace our local sales tax for roads and bridges. Please encourage our Ohio Representatives and Senators to work toward additional funding solutions to provide adequate highway infrastructure funding for local jurisdictions.

Sincerely,

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

## **The Condition of Our Highway System**

We have experienced a mild winter as far as snow and ice control costs and road damage. Temperatures have been relatively warm with very few deep freezes. Even with the warmer temperatures, we have not seen significant damage to roads through this winter season. We still 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 below normal signs of damage through this winter.

We plan to resurface over 16 miles of roads this year and seal approximately 41 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 continue to 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 2 large culverts, and repair of 8 bridges damaged by auto accidents. We have three bridges with weight restriction affecting school buses and one of these structures will be replaced this year with a federal grant. We are excited to report that 2020 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 20 bridges with posted load restrictions. This is a significant increase from 11 posted structures last year because we were required to load rate and post bridges for new special haul vehicles (SHV) and emergency vehicles (EV) by the Federal Highway Administration. EV's include overweight fire tankers and ladder trucks. Fifteen 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 128 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.

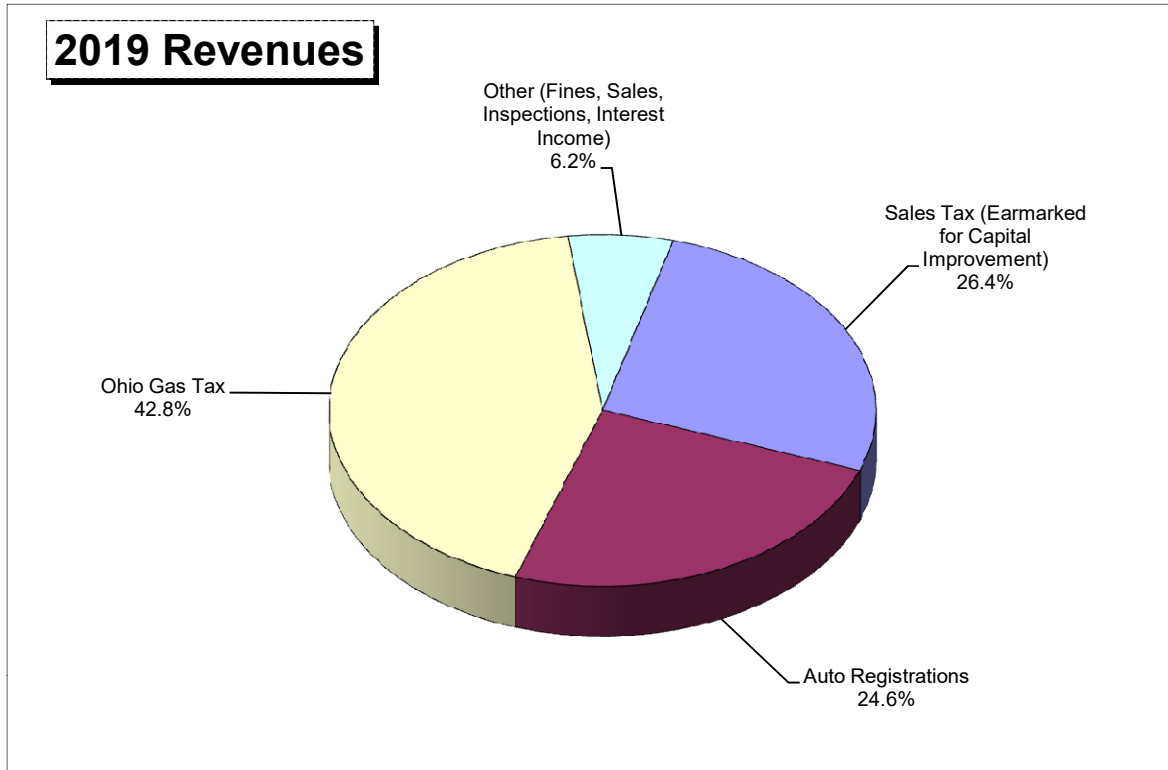
Since the force account limits for projects that we can construct with our own staff were increased in 2003, construction material costs have increased between 44 and 220 percent. We must encourage the state legislature to increase the force account limits for roads and bridges so that we can continue 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 are open waterway ditches, 11.96 miles of tile and 5.99 miles of grassed waterways, totaling 58.84 miles of maintained ditches

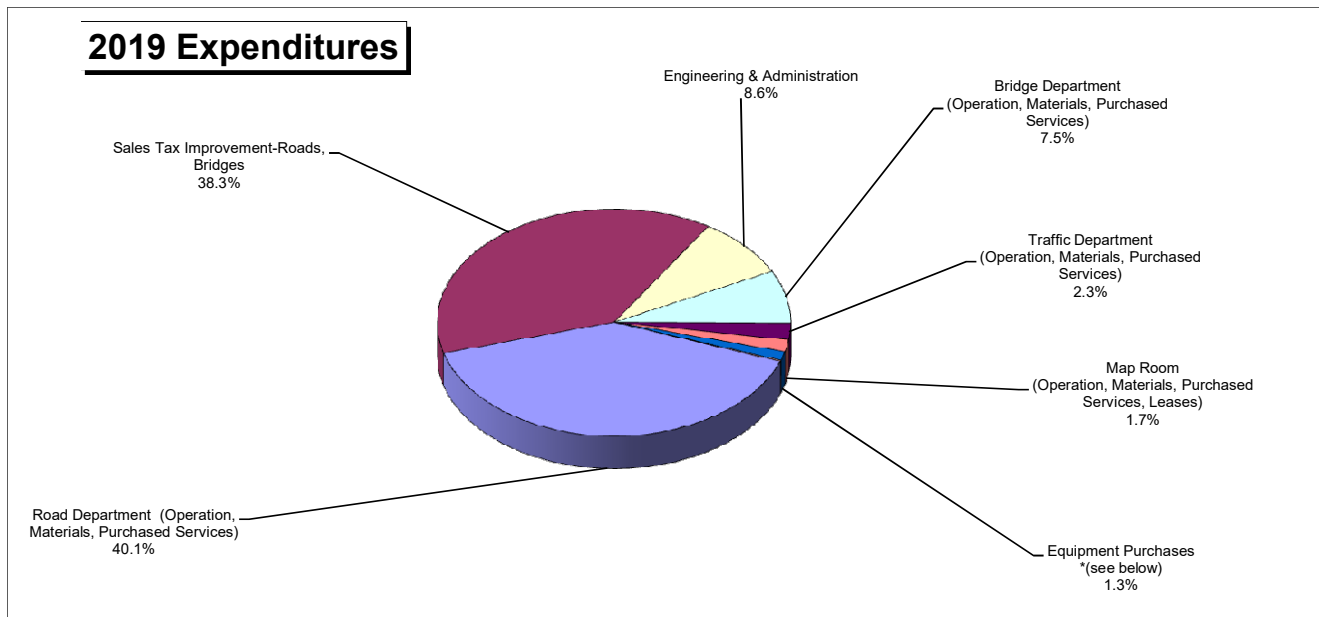
In 2019, some level of maintenance was performed on every ditch. General maintenance includes mowing, spraying, center dipping for improved flow, crossing repairs, bank slip repairs, erosion control, and tile repairs. In 2019, we spent over \$39,000 in maintenance, placed over 229 tons of dump rock/recycled concrete, replaced over 50 feet of tile, applied 151 gallons of liquid herbicide, and 12.5 pounds of dry herbicide.

2019 Revenues		
Sales Tax (Earmarked for Capital Improvement)	26.4%	\$ 1,812,448.56
Auto Registrations	24.6%	\$ 1,687,739.01
Ohio Gas Tax	42.8%	\$ 2,939,200.28
Other (Fines, Sales, Inspections, Interest Income)	6.2%	\$ 424,955.19
OPWC Funds	0.0%	\$ -
Belle Center Amish Church Community - Voluntary Contribution	0.1%	\$ 4,450.00
<b>Total</b>		<b>\$ 6,868,793.04</b>



2019 Sales Tax	
County Carryover from 2018	\$ 1,468,670.73
Township Carryover from 2018	\$ 829,473.02
<b>Income - County 2019</b>	<b>\$ 1,812,448.56</b>
<b>Income - Township 2019</b>	<b>\$ 724,979.41</b>
<b>Expenditures</b>	
Township Sales Tax Resurfacing Program and Chip/Seal	\$ 620,488.38
County Sales Tax Resurfacing Program (including culverts)	\$ 2,382,845.70
Rejuvenating Sealer	\$ 172,905.30
<b>2019 County Carryover</b>	<b>\$ 725,368.29</b>
<b>2019 Township Carryover</b>	<b>\$ 933,964.05</b>
<b>Total Carryover</b>	<b>\$ 1,659,332.34</b>

2019 Expenditures		
Road Department (Operation, Materials, Purchased Services)	40.1%	\$2,676,067.06
Sales Tax Improvement-Roads, Bridges	38.3%	\$2,555,751.00
Engineering & Administration	8.6%	\$574,738.53
Bridge Department (Operation, Materials, Purchased Services)	7.5%	\$503,498.38
Traffic Department (Operation, Materials, Purchased Services)	2.3%	\$155,644.78
Map Room (Operation, Materials, Purchased Services, Leases)	1.7%	\$112,652.56
Equipment Purchases* (see below)	1.3%	\$83,683.09
Capital Improvements	0.2%	\$10,920.64
<b>Total</b>		<b>\$6,672,956.04</b>



*Major Equipment Purchased in 2019	
Map Room Computer	\$2,672.00
Office 4x4 STD PU Truck	\$22,000.00
Office 4x4 CREW PU Truck	\$24,560.00
J-Pod - Survey Equipment	\$902.86
Misc - Survey Equipment	\$359.39
7' Broom - Tractor Unit #119	\$6,400.00
Jpro - Truck Diagnostic Tool	\$3,039.99
Truck Post Lift (15k)	\$6,753.55
Bead Braker	\$1,056.00
Demolition Hammer	\$703.00
Honda Trash Pump	\$1,439.95
Air Compressor	\$1,999.99
Traffic Volume Counters	\$2,208.00
Traffic Computer	\$672.98
Hydraulic Hose Machine and Collett	\$4,730.38
3 Stocker Radar Units (Sheriff's Office)	\$4,185.00
<b>Total</b>	<b>\$83,683.09</b>

**2019 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 2019, working ahead for the 2020 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).

<b>Review of Miscellaneous 2019 Expenses</b>				
	Labor	Amortized Equipment	Materials and Contractor Work	Total
Mowing	\$ 65,387.06	\$ 76,133.07	\$ -	\$ 141,520.13
Roadside Spraying	\$ 9,088.33	\$ 3,410.02	\$ 5,382.79	\$ 17,881.14
Durapatching	\$ 10,359.91	\$ 7,117.43	\$ 7,231.90	\$ 24,709.24
Crack Sealing	\$ 13,684.40	\$ 882.66	\$ 9,009.00	\$ 23,576.06
Tree & Brush Removal	\$ 101,404.55	\$ 53,593.97	\$ 52.56	\$ 155,051.08
Culvert Repair & Replacement (not related to resurfacing)	\$ 11,719.07	\$ 7,656.64	\$ 12,190.26	\$ 31,565.97
Sign Repair	\$ 2,408.72	\$ 1,213.66	\$ 2,362.84	\$ 5,985.22
Sign Repair (Vandalism)	\$ 3,655.20	\$ 2,687.09	\$ 2,524.09	\$ 8,866.38
Snow and Ice Control	\$ 123,214.82	\$ 116,182.36	\$ 258,980.93	\$ 498,378.11

<b>2019 County Paving Program Completed Sales Tax</b>			
ROAD #	Begins	Ends	Total Cost
CR 53	SR 274	CR 52	\$344,445.40
CR 58	Logan-Shelby Line	TR 207	\$753,553.66
CR 59	Logan-Shelby Line	CR 21	\$543,754.94
CR 60	Logan-Shelby Line	CR 54	\$445,653.52
CR 113	SR 638 leave	SR 638 enter	\$99,786.98
CR 105	CR 39 New Richland	CR 106 Northwood	\$190,709.94
		Temp. Pavement Marking	\$4,941.25
		<b>Grand Total</b>	<b>\$2,382,845.69</b>

### 2019 County Chip and Seal Program Completed

2019 County Chip and Seal Program Completed						
Road	Begins	Ends	Labor	Equipment	Materials	Total
11	E Corp DeGraff	TR 45 E				
11	TR 45 E	CR 43 E				
11	CR 43 E	TR 43 W				
11	CR 31 S & TR 31 N	TR 46				
11	TR 46	TR 201 S	\$ 8,079.83	\$ 7,092.57	\$ 75,037.76	\$ 90,210.16
11	TR 201 S	TR 198 S				
11	TR 198 S	TR 204 S				
11	TR 204 S	TR 32				
11	TR 32	Bellef. Corp. Change City				
18	SR 508 & TR 18	TR 30				
18	TR 30	TR 45 W				
18	CR 43 W	Union & Liberty Twp Line TR 32 S	\$ 5,482.86	\$ 4,811.71	\$ 56,781.90	\$ 67,076.47
18	Union & Liberty Twp Line TR 32 S	TR 200 W				
18	TR 200 W	TR 216 North Lake				
18	TR 216 N	CR 11 END				
29	CR 1	TR 179 N				
29	TR 179 N	TR 55				
29	TR 55	CR 5 (suspend)				
29	CR 5 (resume)	TR 166 S	\$ 7,095.50	\$ 6,402.94	\$ 75,162.92	\$ 88,661.36
29	TR 166 S	CR 47 S				
29	CR 47 S	CR 28 Pickrell Town				
29	CR 28 Pickrell Town	CR 146				
43	CR 11	TR 33 Pleasant & Union Twp Line				
43	TR 33 Pleasant & Union Twp Line	CR 31				
43	CR 31	TR 46 N	\$ 5,536.87	\$ 5,258.50	\$ 60,583.04	\$ 71,378.41
43	TR 46 N	TR 201 N				
43	TR 201 N	TR 201 S				
43	TR 201 S	TR 198				
43	TR 198	CR 18				
28	CR 41 E	CR 168 W	\$ 743.42	\$ 765.59	\$ 3,976.00	\$ 5,485.01
49	CR 57	TR 37				
49	TR 37	SR 274	\$ 3,558.79	\$ 2,962.99	\$ 25,984.70	\$ 32,506.48
168	Logan / Champaign Co Line	CR 28	\$ 1,200.35	\$ 1,018.69	\$ 9,356.34	\$ 11,575.38
171	SR 245	TR 166				
171	TR 166	TR 169 S				
171	TR 169 S	TR 169 N	\$ 2,574.11	\$ 2,002.15	\$ 24,291.40	\$ 28,867.66
171	TR 169 N	CR 28				
1	SR 245 & SR 287	CR 47				
1	CR 47	CR 5				
1	CR 5	TR 30				
1	TR 30	TR 190				
1	TR 190	TR 55	\$ 7,395.62	\$ 6,260.10	\$ 64,480.50	\$ 78,136.22
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	Bellef. Corp. Change City				
9	SR 47 (resume)	TR 219 W				
9	TR 219 W	TR 57				
9	TR 57	CR 25	\$ 8,199.21	\$ 7,571.48	\$ 76,432.30	\$ 92,202.99
9	CR 25	TR 223 E				
9	TR 223 E	CR 118 E				
9	CR 118 E	Penn Central RR				
9	Penn Central RR	S Corp Line Rushsylvania				
38	TR 46 N	TR 46 S	\$ 1,254.63	\$ 1,105.44	\$ 8,743.70	\$ 11,103.77
91	TR 46 N	TR 46 S				
91	TR 46 S	Penn Central RR				
91	Penn Central RR	CR 130 End				
91	CR 54 Lewistown	TR 33 S	\$ 5,941.08	\$ 5,165.00	\$ 59,461.45	\$ 70,567.53
91	TR 33 S	TR 31 S				
91	TR 31 S	TR 31 N				
91	TR 31 N	TR 46 N				
255	SR 235	SR 235	\$ 1,250.30	\$ 955.50	\$ 4,858.00	\$ 7,063.80
259	CR 97 New Richland	CR 39 New Richland	\$ 653.21	\$ 306.64	\$ 1,890.00	\$ 2,849.85
5	CR 25	CR 2	\$ 2,244.92	\$ 2,051.50	\$ 22,572.20	\$ 26,868.62
5	CR 2	SR 540				
15	CR 44	SR 287 & CR 41	\$ 1,292.06	\$ 1,113.05	\$ 8,649.90	\$ 11,055.01
30 / 31	CR 31 S	CR 31 N				
30/31	Logan / Champaign Co Line	SR 508				
31	SR 508	TR 30 (suspend)				
31	TR 30 (resume)	TR 45	\$ 6,523.87	\$ 6,572.36	\$ 59,333.68	\$ 72,429.91
31	TR 45	CR 43				
31	CR 43	CR 11				
44	CR 15	TR 160 SE	\$ 2,269.90	\$ 1,891.24	\$ 20,806.10	\$ 24,967.24
117	SR 292	CR 142 S				
117	CR 142 S	TR 138 N	\$ 3,003.84	\$ 2,496.31	\$ 26,572.00	\$ 32,072.15
117	TR 138 N	TR 138 S				
117	TR 138 S	Union Co Line				
121	SR 292 & CR 40 Ridgeway	Penn Central RR				
121	Penn Central RR	TR 138	\$ 2,818.28	\$ 2,342.39	\$ 25,380.32	\$ 30,540.99
121	TR 138	Logan / Union Co Line				
202	Logan / Champaign Co Line - TR 263	SR 508	\$ 1,527.86	\$ 1,477.65	\$ 13,188.00	\$ 16,193.51
S.O. Drive			\$ 362.78	\$ 263.75	\$ 1,372.00	\$ 1,998.53
<b>Total Chip &amp; Seal Program</b>						<b>\$ 873,811.05</b>



**2020 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, 2020, the proposed resurfacing and chip-seal programs for the County are as follows:

2020 Proposed County ST Resurfacing Program					
Road #	Begins	Ends	Road #	Begins	Ends
21	CR 24 Pleasant Twp	CR 77 West	49	SR 274	CR 101 Northeast
57	CR 130	US 33	49	CR 101 Northeast	TR 108 West
57	US 33	East Bell Drive	49	TR 108 West	CR 105
57	East Bell Drive	TR 56 North	49	CR 105	CR 39
57	TR 56 North	TR 56 South	65	Logan-Champaign Co. Line	TR 295 East
57	TR 56 South	CR 49 North	65	TR 295 East	TR 295 West
57	CR 49 North	US 68	65	TR 295 West	SR 508 S. Corp DeGraff
57	US 68	Conrail	66	Logan-Champaign Co. Line	TR 295 East
57	Conrail	CR 9	66	TR 295 East	TR 71 East
52	Logan-Shelby Co. Line	CR 23	66	TR 71 East	East Corp. Line of Quincy
52	CR 23	CR 53 South	96	CR 38 South / TR 38 North	SR 117
52	CR 53 South	CR 54			

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

2020 PROPOSED COUNTY CHIP SEAL PROGRAM					
Road #	Begins	Ends	Road #	Begins	Ends
8	SR 540	SR 292 & CR 12	54	SR 235	TR 215 S
8	SR 292 & TR 127 W	CR 131	54	TR 215 S	TR 213 S
8	CR 131	TR 132 S	54	TR 213 S	CR 91
8	TR 132 S	West Mansfield Corp	54	CR 91	CR 61 & CR 37 Lewistown
8	West Mansfield Corp	ST 47 - CR 142	39	CR 130	TR 56 W
26	CR 5	Culvert	61	CR 37 & CR 54 Lewistown	SR 274
26	Culvert	CR 12	225	Shelby-Logan Co. Line	CR 23
162	Champaign Co. Line	Union Co. Line	17	CR 23	SR 720 Sante Fe
5	US 68	CR 173 E	17	SR 270 Sante Fe	CR 87 E
5	CR 173 E	TR 191 W	17	CR 87 E	Auglaize Co. Idle Road
5	TR 191 W	CR 1	23	SR 273	TR 225
5	CR 1	TR 165 E	23	TR 225 W	CR 52
5	TR 165 E	TR 190 W	23	CR 52	CR 17 Logan-Auglaize Co Line
5	TR 190 W	CR 29 E	27	SR 235	TR 207
5	CR 29 E	CR 29 W	27	TR 207	SR 235
5	CR 29 W	Bridge	27	SR 235	TR 207
5	Bridge	TR 182 W	27	TR 207	SR 235
5	TR 182 W	South Corp. Line Zanesfield	77	CR 34	TR 35
5	SR 540	SR 47	77	TR 35	CR 21
10	East Corp. Line Zanesfield	Kirkmont Entrance	24	SR 47 Logansville	CR 21 W / TR 21 E
10	Kirkmont Entrance	TR 129 N	24	CR 21 W / TR 21 E	TR 207 E
10	TR 129 N	TR 145 S	24	TR 207 E	TR 207 W
10	TR 145 S	TR 170 N	24	TR 207 W	SR 235
10	TR 170 N	SR 292 East Liberty	13	TR 247 SW	SR 235
37	CR 61 Lewistown T&OC RR	TR 95 N	90	CR 88	TR 89
37	TR 95 N	TR 31 S	90	TR 89	Auglaize Co Line
37	TR 31 S	TR 99 N	87	CR 17 Logan-Auglaize Co Line	TR 86 S
37	TR 99 N	TR 56 S Cherokee Creek	87	TR 86 S	TR 86 N
37	TR 56 S Cherokee Creek	CR 130	87	TR 86 N	TR 84 S
37	CR 130	US 33	87	TR 84 S	TR 83 S
37	US 33	CR 39	87	TR 83 S	CR 275
			88	Logan-Auglaize Co Line CR 17	TR 86
			88	TR 86	CR 90 N
			88	CR 90 N	US 33

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

### **2019 BRIDGE PROGRAM**

The 2019 Bridge Program was off to a great start with the replacement of two large culverts, but shortly after the second of these culverts was completed Logan County started experiencing heavy and intense rain events, in both May and June, which caused flooding damage to many structures, including the destruction of one bridge. Thus, many items scheduled for 2019 had to be pushed aside to attend to structures that were affected by the rain events. This flood-related work included repairing flood-damaged structures and repairing flood-damaged waterways, which means the Bridge Crew removed debris like corn fodder from waterways, performed waterway realignment and waterway stabilization. Flood-related work was performed by the Bridge Crew on the following roads: TR 178, TR 163, TR 165, CR 39, CR 64, CR 26, CR 28, CR 29, CR 10, CR 105, TR 179, TR 45, CR 153, CR 49, CR 63, CR 32 and TR 26.

County Road 142-3.72 (Perry Twp.): Large culvert replacement  
County Road 53-4.56 (Stokes Twp.): Large culvert replacement  
County Road 28-4.21 (Monroe Twp.): Emergency bridge replacement

### **2020 TENTATIVE BRIDGE PROGRAM**

The 2020 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 March 2, 2020, the proposed Bridge Program is as follows:

Township Road 23-6.59 (Bloomfield Twp.): Painting  
County Road 70-0.28 (Miami Twp.): Painting  
County Road 103-0.47 (Richland Twp.): Painting  
County Road 21-1.00 (Pleasant Twp.): Bridge replacement (using federal funds to pay for 80% of the project costs; Eagle Bridge Company has been awarded the contractor for this project)  
County Road 58-1.61 (Bloomfield Twp.): Bridge replacement  
County Road 44-1.76 (Zane Twp.): Large culvert rehabilitation  
County Road 9-1.50 (Jefferson Twp.): Large culvert rehabilitation  
Township Road 208-3.23 (Washington Twp.): Sealing  
County Road 12-1.74 (Rushcreek Twp.): Culvert replacement  
County Road 63-2.56 (Miami Twp.): Culvert replacement  
County Road 28-1.60 (Monroe Twp.): Culvert replacement  
County Road 11-0.14 (Miami Twp.): Mill, waterproof and repave  
County Road 61-0.94 (Washington Twp.): Mill, waterproof and repave  
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 7,233. 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 ditch, 11.96 miles of tile and 5.99 miles of waterway.

### **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 checking and approving all descriptions of real estate transfers, 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 & 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 county 911 system, reviews new survey plats and descriptions and continuously maintains & updates all of the survey records.

In 2019, the Map Room Staff checked legal descriptions on 2,770 real estate documents. There were 2,099 deeds, 485 Affidavits, 63 Certificates of Transfer, 92 easements and 31 land contracts. Additionally, 1 annexation plat was filed and recorded along with 4 condominium plats, one subdivision plat and one new road dedication plat. Two streets were vacated along with 12 Lots. New property splits totaled 291 for the year with 75 additional documents being recorded with new survey descriptions.

Surveyors submitted 295 new surveys that were reviewed, approved, indexed, scanned and filed by the Map Room personnel. In addition, 105 house numbers were entered into the 911 system. A total of 1,487 parcels were adjusted on the maps to reflect the new property splits and surveys.

In addition to providing monthly updates to the Engineer's Office, the Map Room sends updates to the Auditor's Office, Sheriff's Department, OUPS, State of Ohio GIS support, Health Department, Logan County Farm Services, Bellefontaine City Code Enforcement, Logan County Water Pollution Control & Eagle View.

The records of the Map Room can be found on the Logan County Engineer's Office website at: [www.lceo.us](http://www.lceo.us)

**The Office of the Logan County Engineer**

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**EXECUTIVE SUMMARY**

**368.373 Miles of County Road**  
 As of 12/31/19

**295 Bridges**  
 20 Have Load Reductions Posted  
 4 Have a Sufficiency Rating Less Than 50%

**7,233 Traffic Signs**

**1,684 Culverts**  
 Excellent/Good Condition - 1,663  
 Fair/Poor/Unknown Condition - 138

**MOTOR VEHICLE REGISTRATIONS**

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

2019 Logan County, Ohio Motor Vehicles Registrations		2018	2017
Type of Registration	# of Units	# of Units	# of Units
Passenger Cars	35,781	36,784	35,216
Motor Homes	334	363	337
Motorcycles	2,734	2,662	2,699
House Vehicles	1,094	1,090	1,042
Mopeds	10	13	14
Unconventional Vehicles	1,105	1,024	988
Non-Commercial Trailers	6,490	6,297	6,198
Non-Commercial Trucks	11,421	11,254	11,007
Farm Truck	346	343	377
Buses	37	39	41
Commercial Trailers	2,083	2,143	2,175
Non IRP Trucks (Intl. Reg. Plan)	1,940	2,070	1,957
IRP Trucks (Intl. Reg. Plan)	346	370	365
<b>Total Vehicle Registrations</b>	<b>63,721</b>	<b>64,452</b>	<b>62,416</b>

SOURCE: State of Ohio, Bureau of Motor Vehicles