

**OFFICE OF THE
LOGAN COUNTY ENGINEER**

**2020 ANNUAL REPORT
2020-2021 ROAD REVIEW**

April 1, 2021



*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

TABLE OF CONTENTS	
Employees of the Logan County Engineer's Office	2
Message from your County Engineer	3
Condition of our Highway System	4
2020 Revenues	5
Sales Tax Balance Sheet	5
2020 Expenditures	6
2020 Major Equipment Purchases	6
2020 Road Program	7-8
2021 Road Program	9
2020 Bridge Program	10
2021 Bridge Program	10
Administrative/Staff Support	11
Design/Engineering	11
Traffic Department	11
Courthouse Duties	11
Executive Summary	12
2020 Motor Vehicle Registrations	12

EMPLOYEES OF THE LOGAN COUNTY ENGINEER'S OFFICE		
County Engineer		
Scott C. Coleman, P.E., P.S.		
Engineering Department		
Michaela Brunke Misty Centers	Shirley Brunke Greg Dappert Michael Kerns, P.E.	Todd Bumgardner Curtis D. Dill, P.S.
Map Room		
Jayma Burkhammer		Suzie Cochran
Highway Department		
Chris Hackley Bryan LeVan Joe Rose Richard Stoker Todd Wisse	Mark Hilty Joel Miracle Dick Sidders Lisa Stover	Jim Jones Troy Pursley John Spencer Derek Thurman TJ Yoder
Ditch Department		
Allen Campbell Tracy Prater	Cole Craig Greg Swonguer	Greg Kennaw Steve Tracey
Bridge Department		
Matt Archer Luke Jolliff	Andrew Farris	Elliott Fullerton Dan McMillen
Traffic Department		
Mark Dearwester		

Logan County Engineer's Office

April 1, 2021

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

The following pages contain our Annual Report for 2020. On the back page, the reader will find a breakdown of the road miles, the number of bridges in our system, and the number of signs and culverts that we maintain. Also included in this report is what we accomplished in the year 2020 and what we plan to accomplish in 2021.

In 2020 we resurfaced 15 miles of county highways, chip-sealed 48 miles, fog sealed 25 miles of county highways, replaced 2 bridges and replaced 1 large culvert and 12 standard culverts. We assisted the Township Trustees with the resurfacing of 4.78 miles of roads and chip-sealing another 30 miles, and slip-lining 1 large culvert.

We have seen a significant decrease in salt prices for the 2020-2021 winter season. 2019-2020 season we paid \$87.94 per ton for road salt and entered winter with a full stockpile. The road salt bid for 2020-2021 winter fill is \$62.45 per ton. Due to dramatically fluctuating prices from year to year, we have become more efficient and effective in how we utilize our labor and materials in clearing roadways of snow and ice. We have pre-wetting 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 pre-wetting 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 2020 was \$355,948.41 and were below our average winter costs of \$400,000.

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 increased by 1.5% in 2020. Motor vehicle fuel tax revenue increased by 23% (the new motor vehicle fuel tax went into effect in July, 2019) and automobile registration fees decreased by 0.02% in 2020. The Logan County Engineer's Office has been aggressively seeking grant funds to supplement our regular funding and sales tax funding. In 2020, we received a total of \$1,841,886.34 in grant funds. The grants funded Bridge 21-1.00 land acquisition, pavement markings and sign upgrades. We also helped the village of Zanesfield acquire \$ 97,051.87 of OPWC grants for the extension of storm drainage through the village.

The 1/2% sales tax for roads and bridges generated \$3,680,583.23 in 2020. The County portion totaled \$1,840,291.64 and the Township portion totaled \$736,116.63. The total municipal sales tax collections were \$736,116.63 and were shared among Bellefontaine and the villages based on population. Total sales tax expenditures were \$1,781,716.31 for County projects and \$771,112.86 for Township projects. The County Engineer's Office expended \$4,264.72 in 2020 to develop, administer and perform inspections for the township paving and chip-sealing.

The Logan County Engineer's Office has been implementing shared services for many years and continues 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. The new motor vehicle fuel user fee increase of 10.5 cents per gallon on gasoline, 19 cents per gallon on diesel, \$200 registration fee for electric vehicles, and \$100 registration fee for hybrid vehicles began collection in July of 2019. In 2020, we received \$3,614,207.26 from motor fuel tax. This is approximately \$1.2 million more than we received in 2018, which is less than the projected increase of \$1.5 million, but Ohio has experienced a significant decrease in fuel sales due to the Covid 19 shutdown/restrictions. Overall, this means that the 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 moderate winter as far as snow and ice control costs and road damage has been significant. Temperatures have been relatively cold in January and February with significant deep freezes. We have experienced frost heaving at a few locations and pavement damage on several roads throughout the 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 above normal signs of damage through this winter.

In 2021, we plan to resurface 21.8 miles of roads and seal approximately 61 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 531 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 2 bridges, replacement of 1 large culvert, and repair of 6 bridges. We have two bridges with weight restrictions affecting school buses. The historic iron truss (bridge 21B-0.05) over the Great Miami River is closed to traffic, but it has been bypassed by the new two lane Chester R. Kurtz Bridge. We have applied for federal funding for the rehabilitation of this bridge and hope to receive approval in May of 2021 for construction in 2023.

There are 24 bridges with posted load restrictions. Three of these are posted only for emergency vehicles (EV) which include overweight fire tankers and ladder trucks. Fourteen 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 130 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 \$200 per square foot for estimating our bridge program.

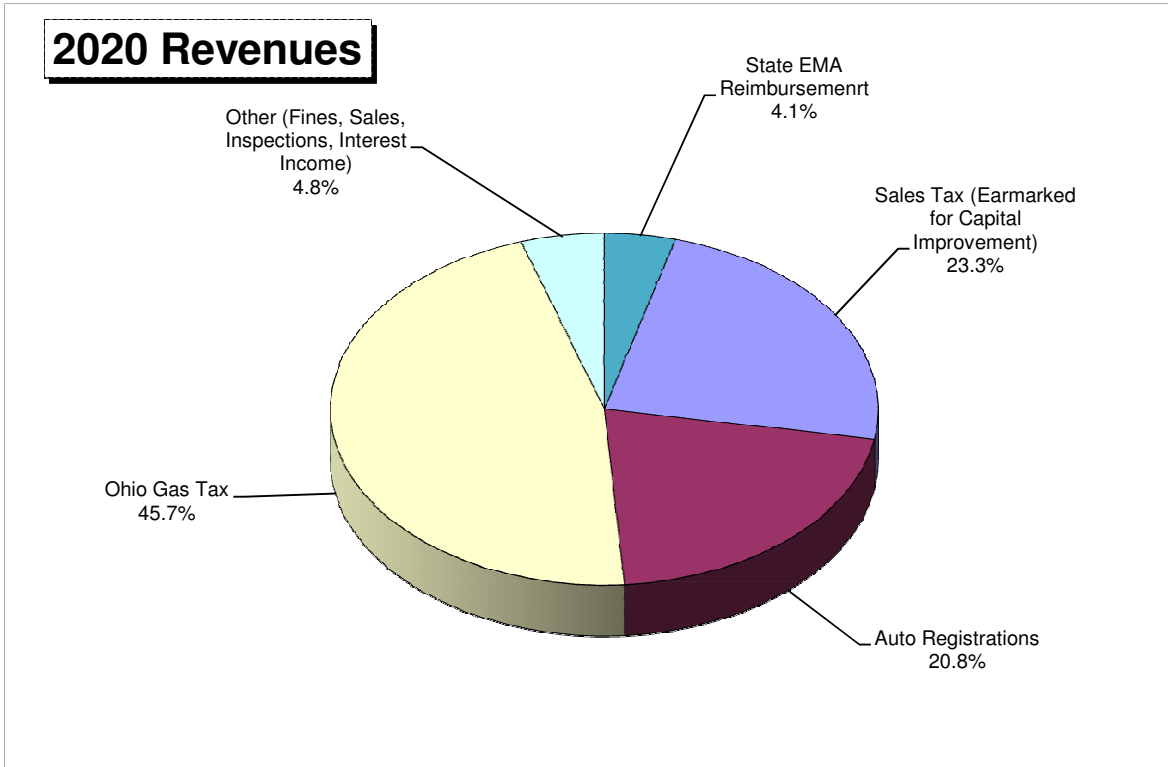
Since the force account limits for projects that we can construct with our own staff were increased in 2003, construction material costs have increased between 44 and 220 percent. We must encourage the state legislature to increase the force account limits for roads and bridges so that we can continue 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 \$310,000 and \$150,000, 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 waterway ditches, 11.96 miles of tile and 5.99 miles of grassed waterways, totaling 58.84 miles of maintained ditches

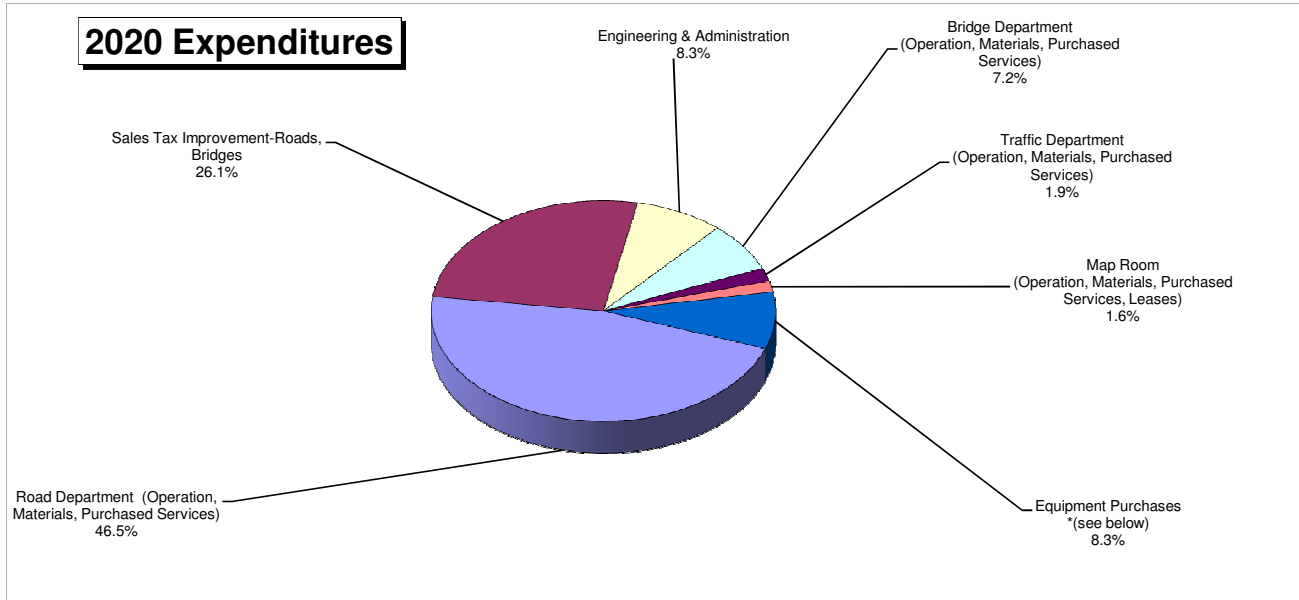
In 2020, some level of maintenance was performed on every ditch. General maintenance includes mowing, spraying, center dipping for improved flow, crossing repairs, bank slip repairs, erosion control, and tile repairs. In 2020, we spent \$47,083.25 in maintenance, placed over 163 tons of dump rock/recycled concrete, replaced 36 feet of tile, applied 171 gallons of liquid herbicide, and 17 pounds of dry herbicide.

2020 Revenues		
Sales Tax (Earmarked for Capital Improvement)	23.3%	\$ 1,840,291.64
Auto Registrations	20.8%	\$ 1,648,286.75
Ohio Gas Tax	45.7%	\$ 3,614,207.26
Other (Fines, Sales, Inspections, Interest Income)	4.8%	\$ 382,291.00
State EMA Reimbursement for 2019 Storm Damage	4.1%	\$ 326,116.09
OPWC Funds	0.0%	\$ -
Workers Compensation Refund	0.6%	\$ 47,469.25
Federal Funds - Sign Upgrade	0.6%	\$ 49,574.15
Belle Center Amish Church Community - Voluntary Contribution	0.1%	\$ 4,080.00
Total		\$ 7,912,316.14



2020 Sales Tax	
County Carryover from 2019	\$ 725,368.29
Township Carryover from 2019	\$ 933,964.05
Income - County 2020	\$ 1,840,291.64
Income - Township 2020	\$ 736,116.63
Expenditures	
Township Sales Tax Resurfacing, Rejuvenating Sealer, and Chip/Seal	\$ 771,112.86
County Sales Tax Resurfacing Program (including culverts)	\$ 1,288,750.00
Rejuvenating Sealer	\$ 152,243.44
Bridge 21-1.00	\$ 340,722.87
2020 County Carryover	\$ 783,943.62
2020 Township Carryover	\$ 898,967.82
Total Carryover	\$ 1,682,911.44

2020 Expenditures		
Road Department (Operation, Materials, Purchased Services)	46.5%	\$3,173,232.77
Sales Tax Improvement-Roads, Bridges	26.1%	\$1,781,716.31
Engineering & Administration	8.3%	\$565,032.19
Bridge Department (Operation, Materials, Purchased Services)	7.2%	\$492,644.62
Traffic Department (Operation, Materials, Purchased Services)	1.9%	\$131,621.98
Map Room (Operation, Materials, Purchased Services, Leases)	1.6%	\$110,543.82
Equipment Purchases* (see below)	8.3%	\$568,761.53
Capital Improvements	0.0%	\$50.00
Total		\$6,823,603.22



*Major Equipment Purchased in 2020	
2021 Freightliner Cab & Chassis	\$83,286.00
2021 Freightliner body - replacement bed unit # 354	\$22,800.00
14" Rechargable Circular Saw	\$271.96
Gradall XL-3100 V Hydraulic Excavator	\$372,228.30
2021 Tandem build - plow, hydraulics, lights and radio	\$66,000.00
A/C Recycling Machine	\$4,199.00
Trimble TSC3 data collector and add-ons	\$5,200.50
Total Station - Trimble VX DR plus	\$13,149.99
NAS Drive Station - IT office drive	\$1,072.96
Router & TP Link Port - Phones and Internet Switch	\$552.82
Total	\$568,761.53

2020 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 2020, working ahead for the 2021 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 2020 Expenses				
	Labor	Amortized Equipment	Materials and Contractor Work	Total
Mowing	\$ 90,522.35	\$ 106,943.00	\$ -	\$ 197,465.35
Roadside Spraying	\$ 9,533.51	\$ 3,832.23	\$ 8,136.16	\$ 21,501.90
Durapatching	\$ 22,540.08	\$ 21,943.88	\$ 18,894.46	\$ 63,378.42
Crack Sealing	\$ 21,947.92	\$ 1,727.35	\$ 10,747.06	\$ 34,422.33
Tree & Brush Removal	\$ 105,361.07	\$ 67,425.09	\$ 42.50	\$ 172,828.66
Culvert Repair & Replacement (not related to resurfacing)	\$ 12,532.15	\$ 8,528.35	\$ 9,057.12	\$ 30,117.62
Sign Repair	\$ 3,751.27	\$ 2,891.55	\$ 4,298.31	\$ 10,941.13
Sign Repair (Vandalism)	\$ 3,259.74	\$ 2,271.95	\$ 4,450.27	\$ 9,981.96
Snow and Ice Control	\$ 72,560.18	\$ 70,928.03	\$ 212,460.20	\$ 355,948.41

2020 County Paving Program Completed Sales Tax			
ROAD #	Begins	Ends	Total Cost
CR 21	CR 24	TR 78	\$ 119,970.00
CR 57	US 33	CR 9	\$ 371,792.00
CR 49	SR 274	CR 39	\$ 355,219.00
CR 52	Logan-Shelby Line	CR 54	\$ 483,921.00
CR 65	Logan-Champaign Line	SR 508	\$ 422,364.00
CR 66	Logan-Champaign Line	East Corp Line Quincy	\$ 283,784.00
CR 96	CR 38	SR 117	\$ 124,020.00
		Temp. Pavement Marking	\$ 4,624.44
Grand Total			\$ 2,165,694.44

2020 County Chip and Seal Program Completed

Road	Begins	Ends	Labor	Equipment	Materials	Total
8	SR 540	SR 292 & CR 12	\$ 4,809.70	\$ 4,339.72	\$ 37,759.02	\$ 46,908.44
8	SR 292 & CR 12	CR 131				
8	CR 131	TR 132 S				
8	TR 132 S	W. Mansfield Corp				
26	CR 5	Culvert	\$ 2,807.65	\$ 2,812.59	\$ 30,857.33	\$ 36,477.57
26	Culvert	CR 12				
162	Champaign Co. Line	Union Co. Line	\$ 516.42	\$ 485.71	\$ 782.00	\$ 1,784.13
5	US 68	CR 173 E	\$ 11,464.81	\$ 10,835.96	\$ 113,982.26	\$ 136,283.03
5	CR 173 E	TR 191 W				
5	TR 191 W	CR 1				
5	CR 1	TR 165 E				
5	TR 165 E	TR 190 W				
5	TR 190 W	CR 29 E				
5	CR 29 E	CR 29 W				
5	CR 29 W	Bridge				
5	Bridge	TR 182 W				
5	TR 182 W	S. Corp. Line Zanesfield				
5	SR 540	SR 47	\$ 6,394.61	\$ 6,278.18	\$ 61,873.08	\$ 74,545.87
10	E. Corp. Line Zanesfield	Kirkmont				
10	Kirkmont	TR 129 N				
10	TR 129 N	TR 145 S				
10	TR 145 S	TR 170 N				
10	TR 170 N	SR 292 E. Liberty	\$ 7,932.55	\$ 6,864.95	\$ 58,397.96	\$ 73,195.46
37	CR 61 Lewistown / OC RR	TR 95 N				
37	TR 95 N	TR 31 S				
37	TR 31 S	TR 99 N				
37	TR 99 N	TR 56 S				
37	TR 56 S	CR 130				
37	CR 130	US 33				
37	US 33	CR 39	\$ 1,956.53	\$ 1,798.70	\$ 21,169.31	\$ 24,924.54
54	SR 235	TR 215 S				
54	TR 215 S	TR 213 S				
54	TR 213 S	CR 91				
54	CR 91	CR 61 & CR 37	\$ 580.99	\$ 513.86	\$ 4,494.78	\$ 5,589.63
39	CR 130	TR 56 W				
61	CR 37 & CR 54	SR 274	\$ 1,377.48	\$ 1,234.03	\$ 13,904.61	\$ 16,516.12
225	Shelby-Logan Co. Line	CR 23	\$ 544.65	\$ 669.51	\$ 3,317.25	\$ 4,531.41
17	CR 23	SR 720	\$ 2,909.81	\$ 3,047.82	\$ 23,823.35	\$ 29,780.98
17	SR 720	CR 87 E				
17	CR 87	Auglaize Co. Line				
23	SR 274	TR 225	\$ 3,988.57	\$ 4,378.50	\$ 36,266.04	\$ 44,633.11
23	TR 255 W	CR 52				
23	CR 52	CR 17 Logan / Auglaize Co. Line				
27	SR 235	TR 207	\$ 914.14	\$ 848.15	\$ 2,312.58	\$ 4,074.87
27	TR 207	SR 235				
27	SR 235	TR 207				
27	TR 207	SR 235				
77	CR 34	TR 35	\$ 1,211.39	\$ 1,259.23	\$ 15,165.78	\$ 17,636.40
77	TR 35	CR 21				
24	SR 47 Logansville	CR 21 W / TR 21 E	\$ 3,496.09	\$ 3,020.70	\$ 33,105.80	\$ 39,622.59
24	CR 21 W / TR 21 E	TR 207 E				
24	TR 207 E	TR 207 W				
24	TR 207 W	SR 235				
13	Covered Bridge	SR 235	\$ 1,045.74	\$ 848.47	\$ 10,410.00	\$ 12,304.21
90	CR 88	TR 89	\$ 1,194.67	\$ 1,151.28	\$ 10,834.90	\$ 13,180.85
90	TR 89	Auglaize Co. Line				
87	CR 17 Logan - Auglaize Co. Line	TR 86 S	\$ 3,219.81	\$ 3,342.11	\$ 34,691.60	\$ 41,253.52
87	TR 86 S	TR 86 N				
87	TR 86 N	TR 84 S				
87	TR 84 S	TR 83 S				
87	TR 83 S	CR 275				
88	Logan - Auglaize Co. Line	TR 86	\$ 3,389.14	\$ 3,327.17	\$ 33,402.96	\$ 40,119.27
88	TR 86	CR 90 N				
88	CR 90 N	US 33				
Total Chip & Seal Program						\$ 663,362.00

2021 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, 2021, the proposed resurfacing and chip-seal programs for the County are as follows:

2021 Proposed County Sales Tax Resurfacing Program					
Road #	Begins	Ends	Road #	Begins	Ends
2	CR 5	TR 129	20	CR 118 Rushcreek Twp	CR 5
2	TR 129	SR 292	20	CR 5	CR 12
2	SR 292	TR 131 N Greenfield	63	E. Corp. Line Quincy	Penn Central RR Bridge
2	TR 131 N Greenfield	TR 132	63	Penn Central RR Bridge	CR 64 S
2	TR 132	CR 142	63	CR 64 S	TR 256 S Corp. DeGraff
2	CR 142	Logan-Union Co. Line			
2021 Proposed County OPWC Resurfacing Program					
Road #	Begins	Ends	Road #	Begins	Ends
28	CR 168 W	CR 171 W	28	TR 164	CR 29 Pickrell Town
28	CR 171 W	SR 287 (suspend)	28	CR 29 Pickrell Town	CR 291
28	SR 287 (resume)	TR 163 E	28	CR 291	US 33
28	TR 163 E	TR 164	103	CR 102	US 68

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

2021 PROPOSED COUNTY CHIP SEAL PROGRAM					
Road #	Begins	Ends	Road #	Begins	Ends
235A	SR 540	Bellefontaine Corp. Line	254	CR 98	CR 38 E & TR 38 S
25	SR 540 resume	SR 47 suspend	96	SR 117	Penn Central RR
25	SR 47 resume	TR 136 E	96	Penn Central RR	CR 97 New Richland
25	TR 136 E	TR 57 W	38	SR 366	CR 98 W
25	TR 57 W	CR 9	38	CR 98 W	CR 96 suspend
124	CR 142	CR 26	39	TR 56 E	CR 37 W & TR 37 W
124	CR 26	Logan-Union Co. Line	39	CR 37 W & TR 37 W	SR 274 Cherokee
12	SR 47	CR 26 W	39	SR 274 Cherokee	CR 222 W
12	CR 26 W	CR 26 E	39	CR 222 W	TR 108 E
12	CR 26 E	CR 20	39	TR 108 E	TR 100 W McArthur/Richland
12	CR 20	CR 48 E	91	SR 235	CR 54 Lewistown
12	CR 48 E	CR 50 suspend	23	CR 74 E	SR 47
12	CR 50 resume	CR 265	23	SR 47	DT&I RR
12	CR 265	TR 116 S	23	DT&I RR	TR 76 E
12	TR 116 S	TR 115 N	23	TR 76 E	TR 78 W
12	TR 115 N	SR 292 end	23	TR 78 W	TR 78 E
20	CR 12	SR 292	23	TR 78 E	CR 58 suspend
20	SR 292	CR 120	34	SR 235	CR 73 W
20	CR 120	Penn Central RR	34	CR 74 W	TR 74 E Miami/Pleasant
20	Penn Central RR	CR 142	34	TR 74 E Miami/Pleasant	DT&I RR
20	CR 142	Logan-Union Co. Line	34	DT&I RR	CR 74 W
118	CR 9	CR 20 N	34	CR 74 W	SR 47
118	CR 20 N	CR 5	34	SR 47	TR 76
5	CR 50 E	East Corp. Line Rushsylvania	34	TR 76	CR 77 E
50	CR 5 & TR 110 N	TR 137 N	34	CR 77 E	TR 78
50	TR 137 N	CR 12 S	34	TR 78	CR 58
50	CR 12 S	CR 12 N	34	CR 58	CR 59
50	CR 12 N	TR 116 N	275	CR 87 lt / TR 87 rt	End
50	TR 116 N	TR 267 N	18	TR 45 W	TR 198 N
50	TR 267 N	SR 292	18	TR 198 N	TR 187 N
113	US 68	CR 112 N	18	TR 187 S	CR 43 W
113	CR 112 N	West Corp. Rushsylvania	173	CR 5	CR 47
112	CR 113	CR 111 W & TR 111 E	41	Logan-Champaign Co Line	SR 287
111	CR 101 & CR 113 Northwood	US 68	154	CR 10	SR 347
111	US 68	CR 112 S & TR 112 N	277	Logan-Union Co. Line	CR 44 SW
98	CR 38 E & S	TR 96	277	CR 44 SW	CR 153
98	TR 96	CR 254	28	CR 29 Pickrell Town	CR 291
			153	SR 287	TR 157
			153	TR 157	CR 277
			153	CR 277	Union Co. Line

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

2020 BRIDGE PROGRAM

The Bridge Crew had a very busy and successful year. Two unique projects this year included performing a large drainage improvement project in the Village of Zanesfield and the slip-lining of a large culvert (CUL 9-1.50), which involved fitting a new culvert into a deteriorated old culvert and filling the space between the two culverts with low-pressure grout.

In addition, many bridges were rehabilitated in the form of painting steel beams and milling, waterproofing and paving decks.

The Bridge Crew also cleaned and performed maintenance on over 50 bridges and replaced several culverts.

Township Road 23-6.59 (Bloomfield Twp.): Painting

Township Road 109-0.05 (McArthur Twp.): Painting

County Road 103-0.47 (Richland Twp.): Painting

County Road 21-1.00 (Pleasant Twp.): Bridge replacement by Eagle Bridge Co. (used federal funds to pay for 80% of the estimated \$2,111,030 project costs)

County Road 58-1.61 (Bloomfield Twp.): Bridge replacement

County Road 9-1.50 (Jefferson Twp.): Large culvert rehabilitation

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

BR CR 120-1.54 (Bokescreek Twp.): Mill, waterproof and repave

BR CR 61-0.94 (Washington Twp.): Mill, waterproof and repave

2021 TENTATIVE BRIDGE PROGRAM

The 2021 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 1, 2021, the proposed Bridge Program is as follows:

BR C 39-6.80 (Richland Twp.): Rehabilitation: End plates

BR C 18-2.68 (Union Twp.): Rehabilitation: Moment plates

County Road 44-1.76 (Zane Twp.): Large culvert rehabilitation

BR T 115-1.14 (Bokescreek Twp.): Bridge Replacement

BR T 166-2.44 (Monroe Twp.): Bridge Replacement

BR C 12-7.42 (Rushcreek Twp.): Mill, waterproof and repave

BR T 131-0.72 (Perry Twp.): Mill, waterproof and repave

BR T 99-0.87 (McArthur Twp.): Mill, waterproof and repave

Township Road 208-3.23 (Washington Twp.): Concrete Sealing

BR T 86-2.86 (Stokes Twp.): Concrete sealing

BR C 37-3.60 (McArthur Twp.): Concrete sealing

BR C 105-0.80 (Richland Twp.): Concrete sealing

BR C 286-0.15 (Stokes Twp.): Painting of wood railing and guardrail posts

BR C 286-0.71 (Stokes Twp.): Painting of wood railing and guardrail posts

BR T 47-0.60 (Monroe Twp.): Repairs & painting of wood railing and guardrail posts

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 7,271. 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 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 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

The Office of the Logan County Engineer

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EXECUTIVE SUMMARY

368.026 Miles of County Road

As of 12/31/2020

296 Bridges

24 Have Load Reductions Posted, 3 of these are posted solely for Emergency Vehicles

4 Have a Sufficiency Rating Less Than 50%

7,271 Traffic Signs

1,845 Culverts

Excellent/Good Condition - 1,712

Fair/Poor/Unknown Condition - 133

MOTOR VEHICLE REGISTRATIONS

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

2020 Logan County, Ohio Motor Vehicles Registrations		2019	2018
Type of Registration	# of Units	# of Units	# of Units
Passenger Cars	35,596	35,781	36,784
Motor Homes	308	334	363
Motorcycles	2,718	2,734	2,662
House Vehicles	1,165	1,094	1,090
Mopeds	12	10	13
Unconventional Vehicles	1,158	1,105	1,024
Non-Commercial Trailers	6,604	6,490	6,297
Non-Commercial Trucks	11,643	11,421	11,254
Farm Truck	326	346	343
Buses	39	37	39
Commercial Trailers	2,076	2,083	2,143
Non IRP Trucks (Intl. Reg. Plan)	2,087	1,940	2,070
IRP Trucks (Intl. Reg. Plan)	230	346	370
Total Vehicle Registrations	63,962	63,721	64,452

SOURCE: State of Ohio, Bureau of Motor Vehicles