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Miami County Engineer

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Hours

7:30 am - 4:00 pm

Monday thru Friday

Summer Garage Hours

6:30 am - 3:00 pm



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Miami County Engineer

ANNUAL REPORT

2019-2020

Honorable Board of Miami County Commissioners,

It is my privilege and responsibility, in compliance with Section 5543.02 of the Ohio Revised Code, to provide you with this 2019-2020 annual report for your review. It provides you with details of our activities during the past year regarding the maintenance of county-owned roads, bridges and culverts. Along with a description of completed projects, the report includes upcoming initiatives, with associated cost estimates, for 2020 and beyond.

In 2019, we continued to be aggressive with our paving program by resurfacing a total of 22 miles. We continue, however, to fall short of paving the approximately 30 miles of roadway per year to stay on a fifteen-year paving cycle. The aforementioned miles included road surfaces as old as 23 years. Our current total certified road mileage is 423.208, at the current rate of road miles we are paving each year, we are on a 19-year paving cycle.

As part of our "Pavement Upgrade to Asphalt Surface Initiative", we converted 6.718 miles of chip seal roads including sections of Fenner Road, Horseshoe Bend Road, and Kessler-Frederick Road.

In an effort to preserve a road, we will apply a course of chip seal to "hold it together" until it can be paved. Two county roads were chip sealed this year for a total of 1.661 miles. Looney Road, which is on our paving outlook for 2020 and Landman Mill Road tentatively scheduled for 2022.

The Ross Road Resurfacing Project from SR202 to SR 201 added an additional 2.543 miles to the resurfacing program and was funded 72% by OPWC funds (\$243,245) and 28% by local funds (\$94,285). The project consisted of a 2" overlay of asphalt concrete and an application of thermoplastic edge line and center line.

In 2020, one of our special paving projects will be 1.465 miles of Bellefontaine Road from the Montgomery County Line and extending north to the Clark County Line. It will receive an asphalt overlay

of 1½" and bermed with an 18" aggregate berm. The final pavement section will be striped with thermoplastic pavement markings.

The other special paving project for 2020 is North County Road 25A from Indian Ridge Drive north to Miami-Shelby Road East. This portion will also receive an asphalt overlay of 1½" with an asphalt berm of 18". The finished pavement will be striped with thermoplastic pavement markings as well. Both paving projects were awarded to John R. Jurgensen Company on March 3, 2020 in an amount of \$146,211.00 and \$341,252.00 respectively. Major funding for these projects is through MVRPC.

Our major bridge project in 2019 was the Range Line Road Bridge No. 13.52 Rehabilitation (pictured below). The project was competitively bid in May and subsequently awarded to Bridge Specialists Inc. of Youngstown, Ohio for an amount of \$156,727.50. The deteriorated concrete deck was prepared with hydro-demolition, received full depth repair, a 2" micro-silica concrete overlay and an asphalt concrete surface course. The final cost of the rehabilitation project, with a net change order of -\$1,060.50, was \$155,667.



Our major bridge project for 2020 is the Croft Mill Road Bridge No. 00.37. It will be replaced with a new galvanized truss bridge. The project is to be funded 100% by Federal LBR Funding. Bids were received for the project on 12/10/2019 and was subsequently awarded to Brumbaugh Construction, Inc. in an amount of \$1,109,943.

More information on the road and bridge projects can be found on pages 3 and 4.

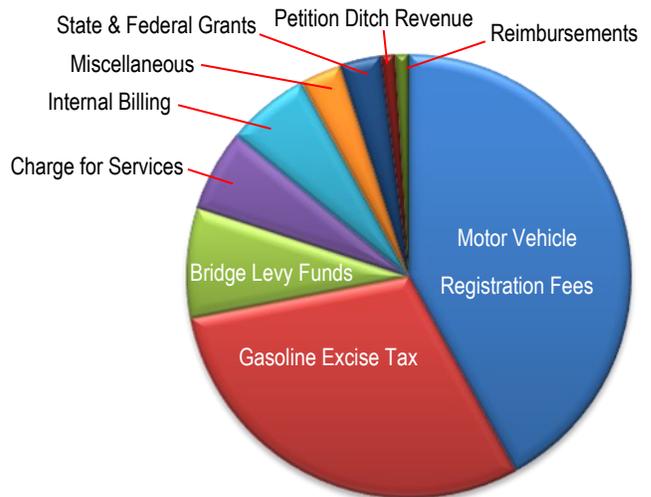
FINANCES

Funds to support the County Engineer operations come primarily from highway user fees like Motor Vehicle Registration Fees and Gasoline Excise Tax. In 2019, we received \$6,982,681 in such fees. Additional funds are generated through the Miami County Bridge Levy, which voters have supported since 1951. Levy funds, which totaled \$814,010 in 2019, are used to build, maintain and repair the large number of bridges and culverts in the county.

Whenever possible, we apply for Federal grant money and Ohio Public Works Commission matching funds to maximize the use of county dollars to complete many projects that would otherwise be unaffordable. In 2019, we secured \$242,447 in state grant funds. A breakdown of our 2019 Revenues and Expenditures is shown below.

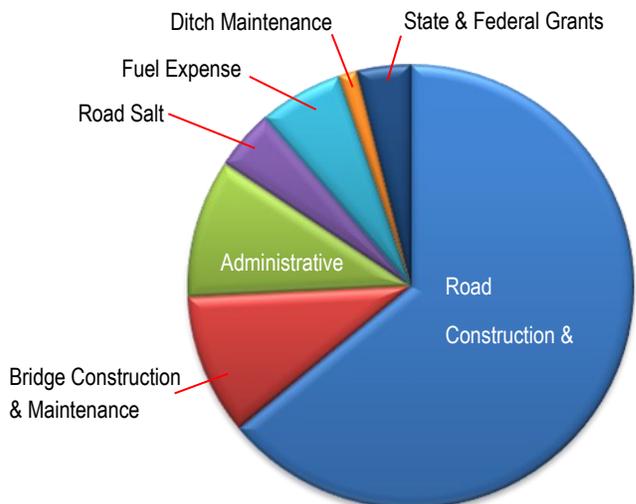
REVENUE

		2019	2018
COMPARISON			
Motor Vehicle Registration Fees	42%	\$4,043,481	\$3,447,870
Gasoline Excise Tax	30%	\$2,939,200	\$2,417,404
Internal Billing	6%	\$560,253	\$576,759
Bridge Levy Funds	8%	\$814,010	\$797,198
Charge for Services	6%	\$530,208	\$766,797
Reimbursements	1%	\$134,952	\$108,999
Miscellaneous (Refunds, interest, etc.)	3%	\$317,590	\$389,738
Petition Ditch Revenue	1%	\$117,099	\$226,716
SUB-TOTAL		\$9,456,793	\$8,731,481
State & Federal Grants (Direct Payments)	3%	\$242,447	\$255,058
TOTAL	100%	\$9,699,240	\$8,986,539



EXPENDITURES

		2019	2018
COMPARISON			
Road Construction & Maintenance	65%	\$5,587,980	\$6,354,094
Bridge Construction & Maintenance	10%	\$894,343	\$1,082,191
Administrative	10%	\$881,589	\$830,480
Road Salt	4%	\$385,577	\$316,867
Fuel Expense	6%	\$531,431	\$535,981
Ditch Maintenance	1%	\$117,625	\$173,022
SUB-TOTAL		\$8,398,545	\$9,292,635
State & Federal Grants (Direct Payment)	4%	\$336,733	\$255,058
TOTAL	100%	\$8,735,278	\$9,547,693



2019 MAJOR EQUIPMENT PURCHASES

HIGHWAY EQUIPMENT	COST
One Airtow Hydraulic Platform Trailer	\$8,290
Two ODOT Style Snow Plows	\$20,822
One Boom for Sign Truck	\$24,400
One 2019 John Deere Tractor 5090E	\$37,462
One 75" Side Mount Flail and One 102" HD Offset Flail Mower	\$36,412
One Superior Self Propelled (Road) Broom	\$65,762
Two 2020 Western Star 4700SB Semi Tractors	\$226,748
Two 2020 Western Star S/A Dump Trucks with Stainless Steel Beds	\$263,148



Superior Self-Propelled Road Broom

ROADS

The Highway Department is responsible for maintaining 423.208 miles of highways in serviceable condition using limited funding resources. We accomplish this through an aggressive preventive maintenance program designed to prolong the life of our highway pavement to the greatest extent possible. The two primary ways to extend pavement life are through the use of Dura Patching, which applies a mixture of bitumen and gravel to repair fractured/damaged roadway, and crack-sealing, where hot bitumen is applied exclusively to pavement cracks. In 2019, our maintenance program included 24 miles of Dura-Patching, 11 miles of crack-sealing, and numerous berm and spot repairs as needed.

The 2019 paving program resulted in 19.46 miles of county highways being paved with asphalt concrete by the John R. Jurgensen Company at a cost of \$1,574,776. Roads resurfaced in the 2019 paving program included portions of Fenner, Greenville-Pleasant Hill, Horseshoe Bend, Kessler-Frederick, Laura-Arcanum, and Range Line. As a cost-savings measure, townships are invited to bid out their resurfacing needs in conjunction with the County Engineer's Office. As a result, 2.501 miles of township roads were paved with asphalt concrete at a cost of \$310,052. Our 2019 Chip Seal Program included three townships totaling 5.45 miles at a cost of \$119,931. Miami County added 1.66 combined miles of Landman Mill and Looney Roads to the Chip Seal Program. Although Looney Road is scheduled to be paved in 2020, the 19-year-old road surface had deteriorated to a point that the chip seal surface was necessary to "hold the road together" until we pave it with two courses of asphalt concrete.

As recited on page 1, we had one special paving project resulting in an additional 2.543 road miles being paved in 2019. Of the \$337,530 total cost to resurface Ross Road from SR 202 to SR 201 in Bethel Township, \$94,285 or 28% was the local share; the remaining \$243,245 (72%) was funded by OPWC funds. The project consisted of a one inch leveling course of ODOT Item 441 (448) Type 1 asphalt and a one inch surface course of Item 441 (448) Type 1. The finished pavement received an Item 617 aggregate berm of approximately two foot in width on each side of the new pavement along with enhanced thermoplastic pavement markings. You will find our future paving projects on page 7 of this report.

Another project that this office has been working on for many years is the Emerick Road Curve Realignment Project. Bids were received for the project on May 2, 2019 and an award was made to Brumbaugh Construction, Inc. of Arcanum, Ohio on May 21, 2019 in an amount of \$213,366.00. After final quantities and materials were quantified, the contract saw an addition of \$518.00 for a total completed project cost of \$213,884.00.



Our paving outlook for 2020 includes a total of 21.764 miles of roadway with an estimated cost of \$1,741,120. This will include portions of roadway in Bethel, Brown, Elizabeth, Newberry, Springcreek, Union, and Washington townships. With the inclusion of the Bellefontaine Road and County Road 25A paving projects, our anticipated total miles paved in 2020 will be approximately 26.254 miles.

SNOW AND ICE REMOVAL

The Miami County Engineers Office participates in the cooperative group of Southwest Ohio Purchasers for Government (SWOP4G) for our rock salt purchases which offers us the best price through their bidding process. In August 2019, we secured a contract with Cargill, Inc. for 5,000 tons, more or less, of rock salt at a cost of \$89.95 per ton dumped for the 2019-2020 winter season. This price per ton remained the same as the 2018-2019 season but was awarded to a different supplier. The 2018-2019 winter season, which covered a time period of 11/15/18 through 3/4/19 with county crews being called out on 35 different occasions for snow and/or ice control, had a total cost of \$311,049.21 (includes equipment, labor, and material costs). Miami County has experienced a milder 2019-2020 winter season with fewer snow and/or ice events. Our crews accumulated a total of 2,412 hours (which includes regular and overtime hours) from November 11, 2019 to March 5, 2020. As of March 5, 2020, the total cost of snow and ice removal is \$261,400 (including labor, equipment and material). Due to fewer freeze-thaw cycles this winter season, we anticipate the road surfaces being in overall better condition heading into spring than they have been in previous years.

BRIDGES

With 342 bridges of various ages and conditions distributed throughout the county, our crews are never at a loss for work. The 2019 Bridge Program was highlighted by two larger projects. The first of these projects, completed by our county crews, was the replacement of the Fenner Road Bridge No. 2.50 in Newton Township, 2,500 feet east of Shiloh Road. This structure was in poor overall condition due to the deterioration of the corrugated steel pipes and was replaced with 48'-0" of 20'x6' four-sided precast concrete box culvert. The four-sided precast concrete box culvert was competitively bid and awarded to Lindsay Precast, Inc. of Canal Fulton, Ohio in the amount of \$74,244.00. The total cost for this replacement was \$131,898 and was funded by the Miami County Bridge Levy.



The second of the two larger projects was the Miami-Shelby West Road Bridge No. 7.22 in Washington Township, 2,800 feet west of State Route 66. This structure was also in poor overall condition due to the concrete superstructure and was replaced with 54'-0" of 14'x8' four-sided precast concrete box culvert. The four-sided precast concrete box culvert was competitively bid along with the Fenner Road Bridge culvert and was also awarded to Lindsay Precast, Inc. in the amount of \$59,842.00. The total cost for this replacement project was \$106,395.00.

In addition to the two larger projects, the Range Line Road Bridge No. 13.52 Rehabilitation project was competitively bid on May 16, 2019 due to the deterioration of the concrete deck. An award was made to Bridge Specialists, Inc. of Youngstown, Ohio in an amount of \$156,727.50. After final quantities and materials were quantified, the contract saw a deduction of \$1,060.50 for a total completed project cost of \$155,667.00. Our county crews also replaced Sodom Road Bridge No. 1.25 with county-manufactured concrete beams. The beams have an out/out length of 30 feet and a total width of 30 feet with a 30° RF skew. New abutments were constructed by county bridge personnel on spread footings. The total project cost was \$104,351.85.

In 2020, our special bridge projects will be the Croft Mill Road Bridge No. 00.37 Replacement Project and Troy-Urbana Road Bridge No. 4.71 Replacement Project. The Croft Mill Road Bridge Project was bid on December 10, 2019 and subsequently awarded to Brumbaugh Construction, Inc. of Arcanum, Ohio on December 31, 2019 in an amount of \$1,109,943.00. This is a Federal Project and will be funded 100% by CEAO-LBR funds. The anticipated start date will be mid-year with a completion date of no later than October 20, 2020. The Troy-Urbana Road Bridge Project will be bid in June and will be partially funded with OPWC funds with an estimated cost of \$450,000. The breakdown is \$300,000 OPWC funds and \$150,000 local funds.

In 2019 we were able to remove Sodom Road South Bridge No. 1.25 from our list of reduced-load posted structures, leaving 24 posted bridges in our inventory. In 2020, we plan to replace Croft Mill Road Bridge No. 00.37, Markley Road Bridge No. 2.10, and Perry Road Bridge No. 0.90, all reduced-load posted bridges.

2020 will be another busy year for our bridge program with the following three bridges scheduled for replacement:

- ⇒ Harrison Street Bridge No. 0.17 Rehabilitation, an existing prestressed box beam, will be rehabbed with new precast concrete beams and abutment will be faced. The estimated cost is \$150,000.
- ⇒ Markley Road Bridge No. 2.10 Replacement, an existing steel beam bridge, will be replaced with prestressed concrete beams and new abutments. The estimated cost is \$160,000.
- ⇒ Perry Road Bridge No. 0.90 Replacement, an existing steel beam bridge, will be replaced with county poured beams and new abutments. The estimated cost is \$95,000.

In addition to the structures listed above, we will also be replacing several larger culverts in preparation with upcoming resurfacing projects.

We continue to rely heavily on funds generated through the Miami County Bridge Levy to accomplish the goals of the department related to bridge construction and repair which is up for renewal in 2020. Our thanks to the voters and taxpayers of Miami County for their continued support of this vital funding stream. As always, our commitment is to seek out and use all available resources to insure the continued serviceability and safety of our county-wide bridge system.

TRAFFIC

FENNER AND WILSON INTERSECTION

A Flashing Beacon Light was installed, in 2019, to improve the safety of the intersection of Fenner Road and Wilson Road. After conducting a Multi – Way Stop and a Traffic Signal Study, it was determined that a Flashing Beacon Light would enhance the safety of the intersection while maintaining the traffic conditions to which road users are accustomed. Placed overhead, the intersection now has two flashing beacons facing the North/South and East/West directions. Along with Stop Signs, the North/South travel lanes now have flashing red beacon lights to alert motorists of the need to stop and the location of the intersection. The East/West travel lanes are accompanied by flashing yellow beacon lights to alert motorists that an intersection is ahead.

SIGN DEPARTMENT

Every 5 years, an inspection of the County's traffic signs is conducted to determine the nighttime visibility of the sign inventory. To determine which traffic signs need replaced, the County's Sign

Department conducts a Visual Nighttime Inspection which includes a survey of the sign inventory during nighttime hours. A visual inspection has started in late 2019 and will continue into 2020.

In addition to the above – mentioned sign replacements, our sign department replaced approximately 498 signs in 2019. Of these 498 signs, roughly 187 were replaced due to traffic accidents, 84 due to vandalism, and 55 due to weather related incidents. The remainder of the 498 signs were replaced due to continual maintenance and upgrades to our sign inventory.

TRAFFIC COUNTS/SPEED LIMIT STUDIES

We conduct 48-hour traffic counts at approximately 120 locations each summer on county and township roads. The traffic count data is used to establish priorities for roadway repair, repaving, lane-width alterations, signage requirements, and other highway-related improvements. Speed studies are occasionally conducted to determine appropriate speed limits based upon roadway improve-

TAX MAP

The Tax Map Department draws and maintains tax maps for over 51,000 parcels of land in Miami County. A tax map shows the shape, size and owner of each parcel of land, and is used by the County Auditor to determine property taxes used to support local school districts. All tax maps, land/lot survey records, and record plats, a total of over 27,000 documents currently, are individually scanned so that digital copies are available by request via e-mail. Currently, all tax maps are available on Miami County's website. As always, however, if personal assistance is desired Tax Map personnel stand ready to serve the public's needs in accessing and navigating property

documents and surveys from their office on the first floor of the Miami County Safety Building.

In addition to tax map work, multiple County departments call on the Map Department for a special mapping projects from time to time. The Map Department Technicians maintain Precinct Maps at the request of Miami County Board of Elections. They are currently updating township right-of-way maps showing legal widths of all township and county roads. In 2019, the mapping department provided, upon their request, maps to EMA for tornado damage. Also, in 2019, the department reviewed the content and mathematical accuracy of over 137

land surveys of individual properties filed for record with the County Engineer. The department also reviewed and checked the mathematical accuracy of 69 Recorder's Plats, which consist primarily of residential and commercial subdivisions, street and alley vacations, annexations, and right-of-way plans of road projects. Finally, the department reviewed the deeded legal description of every property transferred in Miami County where over 4500 deeds/affidavits were recorded, each one containing one or more legal descriptions requiring review by the department.

DITCHES

Annual assessments are collected to finance on-going maintenance on 25 ditches in Miami County (see chart at right). These assessments are collected from adjacent landowners who benefit from the drainage improvement. State law limits ditch fund maintenance reserves to a set percentage of the construction cost of the ditch. Nine ditches (double asterisk) are in need of review of their approved construction base because the annual collection does not provide sufficient funding to maintain the completed project. In many cases this approved construction base is decades old and no adjustments for inflation have ever been made. Many of these same ditches are also in need of work which goes beyond the scope of routine maintenance (i.e. mowing and spraying), and funds for these items cannot be collected until the construction base is raised to allow for additional collection of funds. In 2019, the construction base for the Cottingham and Wauger Ditches were reviewed and revised. Review of the construction base for the Beard, Hartstein-Switzer, Reighard, and Welsch ditches is planned in 2020.

Routine ditch maintenance includes mowing and weed-spraying, but occasionally a drainage-way may require a cleanout or more extensive repair to restore drainage efficiency. In 2019 the Cottingham, Dye Mill, Reighard, and several other ditches required such repairs. In 2020 we anticipate that 12 of the 25 ditches listed at the left may require some sort of maintenance exceeding the norm, including ditch crossing replacement, tree and brush removal, open ditch cleanout, and tile main and/or spur repair/replacement.

In 2019 Reconstruction of the Gallamar Ditch No. 850 was completed by S2K Excavating, LLC pursuant to O.R.C. Chapter 6131, Single County Ditches. This reconstruction included the replacement of an existing clay drainage tile (failing), driveway culvert replacements, road side ditch reconstruction, and tree and brush removal. The Caldwell Ditch No. 849 reconstruction was also completed in 2019 by Cy Schwieterman, Inc. pursuant to O.R.C. Chapter 940, Soil and Water Conservation Commission. All portions of both the reconstructed Caldwell Ditch and Gallamar Ditch within the project extents will be maintained pursuant to O.R.C. Chapter 6137, Ditch Maintenance Fund.

	DITCH NAME	NO.	CONSTRUCTION COST BASIS	2018 ACTUAL ANNUAL COLLECTION	TYPICAL ANNUAL EXPENSES
* **	BEARD	807	\$10,876.54	\$1,632.43	\$1,700.00
	CALDWELL	849	\$429,980.91	\$12,523.72	"New Const."
*	COTTINGHAM	806	\$10,883.13	\$3,266.01	\$3,650.00
**	DYE MILL	805	\$22,804.21	\$8,125.11	\$8,250.00
* **	FRESHOUR	841	\$11,916.90	\$1,310.86	\$2,400.00
**	FROSTY-LANDIS	826	\$34,091.47	\$3,425.90	\$3,000.00
	GALLAMAR	850	\$98,702.79	\$4,700.13	"New Const."
**	HARTSTEIN-SWEITZER	829	\$25,143.74	\$1,761.20	\$1,300.00
	HARWOOD	818	\$207,656.20	\$17,650.75	\$3,000.00
	HELMICK HARLACHER	833	\$37,225.01	\$2,233.50	\$4,300.00
	LANE-HATHAWAY	842	\$18,901.11	\$2,279.48	\$2,200.00
**	LEONARD	811	\$49,496.92	\$20,043.74	\$26,500.00
	LUTHERAN RD. GP. JOINT		MONT.	\$364.16	MONT.
**	MARSH	817	\$9,777.84	\$1,182.40	\$1,250.00
	MOHLER JOINT	363	MONT.	\$4,422.53	MONT.
	MUMFORD	846	\$68,543.11	\$1,412.07	\$550.00
	PEMBERTON	843	\$18,708.50	\$1,180.25	\$1,500.00
	REEDER	838	\$39,157.81	\$3,101.19	\$4,400.00
* **	REIGHARD	824	\$11,951.01	\$1,802.28	\$1,550.00
	SHELBY COUNTY JT.		SHELBY	\$6,979.59	SHELBY
	SWAILES RUN	844	\$53,550.00	\$53.55	\$750.00
	TROY-CONCORD	821	\$331,070.59	\$21,705.06	\$27,500.00
	UPPER LUDLOW	845	\$264,994.15	\$327.17	\$600.00
*	WAUGER BRANCH	808	\$44,776.61	\$6,771.17	\$7,150.00
* **	WELSCH	814	\$18,664.96	\$1,302.59	\$3,300.00

*	= EVALUATE CURRENT COLLECTION
**	= CONSTRUCTION BASE NEEDS RE-EVALUATED
	➤ LUTHERAN RD. GP. JOINT AND MOHLER JOINT = MONT. CO. MAINT.
	➤ SHELBY COUNTY JT. DITCHES = SHELBY COUNTY MAINTENANCE

CULVERTS

Our culvert replacement/upgrade program continued in 2019, 55 structures were replaced at a total cost of \$294,715. We prioritize the replacement of culverts on roads that are scheduled to be resurfaced to avoid having to cut into any new roadway in the foreseeable future.

One of our two larger culvert replacements in 2019 was on Statler Road in Springcreek Township, Culvert No. 2.850. Our county crews installed 40' lineal feet of 8'x4' concrete box at a cost of \$36,996. The second larger culvert replacement was on Lena Palestine Road in Brown Township, Culvert No. 2.108. This replacement consisted of 36' lineal feet of 8'x4' concrete box at a cost of \$24,319, also completed by our county crews. As stated above, in preparation of the paving program, our crews replaced multiple culverts on Fenner Road. These included Culvert No. 1.635, 32' of 29"x45" of concrete elliptical pipe for a total cost of \$12,540; Culvert No. 3.509, 80' of 48" culvert pipe for a total cost of \$20,989; and Culvert No. 4.082, 64' of 21" concrete pipe for a total cost of \$7,424. In 2020 we anticipate replacing 50 to 60 culverts as part of our on-going culvert upgrade program.

FUTURE MAJOR PROJECTS

ROADS

BELLEFONTAINE ROAD RESURFACING PROJECT

This project consists of overlaying Bellefontaine Road from the Montgomery County Line to the Clark County Line.

Year: 2020 Total Cost: \$146,211 Local Share: \$28,242 (20%) Other Funding: \$117,969 - MVRPC STP (80%)

Awarded to: John R. Jurgensen Company of Springfield, Ohio

COUNTY ROAD 25A RESURFACING PROJECT — NORTH

This project consists of overlaying County Road 25A from Indian Ridge Drive to Miami-Shelby Road East.

Year: 2020 Total Cost: \$341,252 Local Share: \$136,501 (40%) Other Funding: \$204,751 - Federal (60%)

Awarded to: John R. Jurgensen Company of Springfield, Ohio

COUNTY ROAD 25A GUARDRAIL UPGRADE

This project consists of upgrading obsolete guardrail along County Road 25A between Troy and Piqua.

Year: 2021 Total Cost: \$300,000 Local Share: None Other Funding: \$300,000 - Federal HSTP (100%)

PIQUA-TROY ROAD RESURFACING PROJECT

This project consists of overlaying Piqua-Troy Road from the City of Troy corporation limits to the City of Piqua corporation limits.

Year: 2022 Total Cost: \$904,000 Local Share: \$180,800 (20%) Other Funding: \$723,200 - CEAO STP (80%)

TROY-URBANA ROAD RESURFACING PROJECT

This project consists of overlaying Troy-Urbana Road from the Deweese Road to the Champaign County Line.

Year: 2023 Total Cost: \$1,115,300 Local Share: \$238,000 (20%) Other Funding: \$952,000 - CEAO STP (80%)

BRIDGES

REPLACEMENT: CROFT MILL ROAD BRIDGE NO. 00.37

This project consists of replacing the existing steel beam bridge with a galvanized truss bridge.

Year: 2020 Total Cost: \$1,109,943 Local Share: \$0 Other Funding: \$1,109,943 – CEAO LBR (100%)

Awarded to: Brumbaugh Construction of Arcanum, Ohio

REPLACEMENT: TROY-URBANA ROAD BRIDGE NO. 04.71

This project consists of replacing the existing steel beam bridge with pre-stressed concrete beams.

Year: 2020 Total Cost: \$450,000 Local Share: \$150,000 (33%) Other Funding: \$300,000 - OWPC (67%) (If approved)

REPLACEMENT: PETERSON ROAD BRIDGE NO. 00.05

This project consists of replacing the existing bridge over the Great Miami River.

Year: 2024 Total Cost: \$5,738,000 Local Share: \$738,000 Other Funding: \$5,000,000 - CEAO

PERSONNEL

2019 NEW HIRES:

Rod Roswell joined our Highway Garage crew on May 28 as a Highway/Bridge Worker 1. Rod has experience as a truck driver and equipment operator.

Eric Davis also joined our Highway Garage crew on May 28 as a Highway/Bridge Worker 1. Eric comes to us with a background as a utility arborist from the City of Westerville.

Matt Bromley joined our Tax Map Department on June 17, 2019 as a CAD/GIS Technician. Matt has a bachelor's degree in both Environmental Earth Science and Geography from Miami University. Matt comes to us with many skills including, ESRI, Remote Sensing, Mapping, and ArcMap.

Marilyn Hemsworth joined our Tax Map Department on August 26, 2019 also as a CAD/GIS Technician. Marilyn has a bachelor's degree in civil engineering and brings with her experience with CAD, tax maps, and civil engineering plans.

We would like to welcome all our new hires to both our Highway Garage and Tax Map Department and wish them a long and successful tenure with Miami County.

2019 RETIREMENTS:

Don McReynolds retired on September 24, 2019 after 34 years of service at the Highway Garage. Don was hired on June 10, 1985 as a Highway Maintenance Worker 1. He was promoted multiple times over his tenure and in April of 2008, he was promoted to Road Maintenance Supervisor and remained in the position until his retirement. Don was a hard worker with good leadership skills and will be missed. Congratulations on your successful years at Miami County and we wish you a happy retirement!

MOWING & SPRAYING:

County roadsides are mowed and sprayed each growing season in accordance with provisions of the Ohio Revised Code Section 5579.04. We meet the mowing requirements by using both county crews and contracted services while relying solely on contracted services for all spraying operations. In 2019, this office bid three rounds of 424 miles of roadside mowing. One proposal was received for the program but exceeded the Engineer's estimate by more than the allowable 10%; therefore, our county crews completed all three rounds of the roadside mowing. Our crews also mowed 131.35 acres of petition drainage ditches, utilizing in-house equipment and resources.

PAVEMENT MARKING:

We contracted in 2019 with Aero-Mark, Inc. of Streetsboro, Ohio to complete center line marking on 125 road miles of county highway and 70 miles of township highway at a cost of \$65,897. Aero-Mark also edge lined 244 lane miles of county highway and 132 miles of township highway at a cost of \$118,150. The cost to stripe one mile of center line increased \$44 from 2018 to 2019 with edge line increasing \$26 per mile striped. Typically, the road pavement conditions dictate how often the road receives pavement markings with most of our roads cycling through at about three years between restriping.

County Maps

Maps, in both book and folded formats, are available free of charge at the County Engineer's Office and at the Tax Map Department in the Safety Building. The maps include detailed information on cities and villages throughout the county, and indicate road names, township boundaries, points of interest, and more.

The Miami County Highway Map will be updated and reprinted in 2020.

