

# Miami County Engineer's 2022-2023 Annual Report

March 2023

Honorable Board of Miami County Commissioners,

In compliance with section 5543.02 of the Ohio Revised Code, I am pleased to offer this 2022-2023 annual report for your review. This report provides you with details of our activities during 2022 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 2023 and beyond.

Even as we face the challenges of inflation and increasing material prices; we had a busy and successful 2022 construction season. We had five contracted bridge replacements totaling \$3,089,155 (\$2,318,811 local funds); the Piqua-Troy Road Resurfacing Project totaling 4.60 miles at a cost of \$720,468 (\$144,093 local funds); our annual Chip Seal Program totaling 14.693 miles at a cost of \$354,174; and the annual Paving Program for a total of 22.728 miles at a cost of \$2,500,483.

Proposals were received on July 15, 2021 for our largest bridge project of the year; the Frederick-Garland Road Bridge No. 07.67 Replacement Project. The project was subsequently awarded to Eagle Bridge Co. of Sidney, Ohio in an amount of \$1,149,767.30. This replacement project was 33% funded by OPWC Funds. The bridge was completed on June 2, 2022 at a total cost of \$1,198,647.74.

The Ziegler Road Bridge No. 00.57 Replacement was bid on September 7, 2021 with four proposals being received for the project. Durst Brothers Excavating, Inc. submitted the lowest proposal at \$272,437.81 and was awarded the project. The replacement project was funded by local funds at a total cost of \$280,164 and was completed on September 16, 2022.

On November 30, 2021 bids were received for the 2021 Miami County Bridge Package. The bridge package included the replacement of the Loy Road Bridge No. 04.51 and Peterson Road Bridge No. 05.66. The project was awarded to Brumbaugh Construction, Inc. in an amount of \$1,017,613.00. The Loy Bridge was completed on April 15, 2022 and the Peterson Bridge was completed on October 8, 2022.

On February 8, 2022 bids were received for the 2022 Miami County Bridge Package which included the replacement of the Hill Road Bridge No. 00.51 and Sugar Grove-Circle Hill Road Bridge No. 00.13. The project was awarded to Brumbaugh Construction, Inc. in an amount of \$926,523.00. The Hill Road Bridge was completed on April 11, 2022 and the Sugar Grove-Circle Hill Road Bridge was completed on July 22, 2022.

Our special paving project was the Piqua-Troy Road Resurfacing Project. Bids were received for the project on February 10, 2022. The project was awarded to the John R. Jurgensen Company in an amount of \$721,694.11. The final cost was \$720,468 (\$576,375 – Federal and \$144,093 – Local). The project was completed in June 2022.

2022 was also another busy year for culvert replacements. Our crews replaced 56 culverts at a cost of \$448,783. More information about the culverts can be found on page 3.

On January 25, 2022, the Board of Miami County Commissioners entered into a contract with Westerheide Construction Company of Sidney, Ohio for the construction of a new fuel island at the Miami County Highway Department. The two 12,000 gallon tanks were placed in-ground on January 12.

Please take a look at the information in this report to gain a more in-depth insight into our past accomplishments and future goals. If you have any questions about the duties or responsibilities of the County Engineer's Office, don't hesitate to contact me. As always, I appreciate the opportunity to serve you and the citizens of Miami County as your County Engineer.

Paul P. Huelskamp PE, PS



Paul P. Huelskamp PE, PS

## Miami County Engineer's Office & Highway Garage

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Troy, Ohio 45373

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engineer/index.htm](http://www.miamicountyohio.gov/engineer/index.htm)

### Hours

7:30 am - 4:00 pm  
Monday thru Friday

### Garage Hours

7:00 am - 3:30 pm



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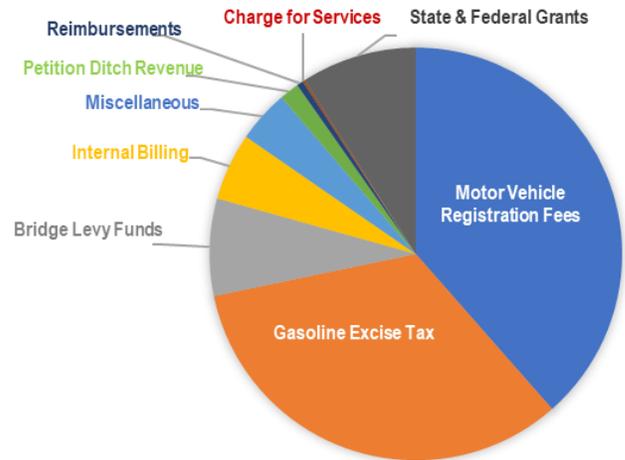
# Finances

Funds to support the County Engineer operations come primarily from highway user fees like Motor Vehicle Registration Fees and Gasoline Excise Tax. In 2022, we received \$7,990,739 in such fees. Additional funds are generated through the Miami County Bridge Levy, which voters have supported since 1951 and was renewed again in 2020. Levy funds, which totaled \$847,841 in 2022, 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 2022, we secured \$361,013 in State Grant funds and \$738,826 in Federal funds. A breakdown of our 2022 Revenues and Expenditures is shown below.

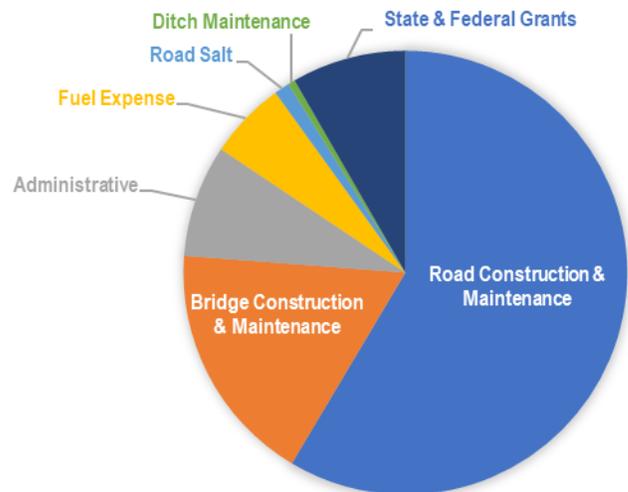
## REVENUE

		2022	2021
Comparison			
Motor Vehicle Registration Fees	38%	\$4,290,237	\$4,371,411
Gasoline Excise Tax	33%	\$3,700,502	\$3,739,694
Bridge Levy Funds	8%	\$847,841	\$849,493
Internal Billing	5%	\$587,861	\$485,230
Miscellaneous (Refunds, interest, etc.)	4%	\$457,473	\$493,873
Petition Ditch Revenue	2%	\$170,270	\$162,875
Reimbursements	1%	\$56,606	\$82,388
Charge for Services	-1%	\$19,091	\$533,308
<b>SUB-TOTAL</b>		<b>\$10,129,881</b>	<b>\$10,718,272</b>
State & Federal Grants (Direct Payments)	9%	\$1,009,839	\$225,271
<b>TOTAL</b>	<b>100%</b>	<b>\$11,139,720</b>	<b>\$10,943,543</b>



## EXPENDITURES

		2022	2021
Comparison			
Road Construction & Maintenance	59%	\$7,738,395	\$7,855,832
Bridge Construction & Maintenance	18%	\$2,336,077	\$983,749
Administrative	8%	\$1,079,835	\$667,948
Fuel Expense	6%	\$747,935	\$576,144
Road Salt	1%	\$146,973	\$184,190
Ditch Maintenance	-1%	\$68,493	\$72,491
<b>SUB-TOTAL</b>		<b>\$10,340,354</b>	<b>\$7,884,507</b>
State & Federal Grants (Direct Payment)	8%	\$1,099,839	\$238,028
<b>TOTAL</b>	<b>100%</b>	<b>\$10,578,382</b>	<b>\$9,553,712</b>



## 2022 MAJOR VEHICLE AND EQUIPMENT PURCHASES

NEW VEHICLES AND EQUIPMENT	DEPARTMENT	COST
One Gradall Hydraulic Excavator	Highway	\$443,608
Four 2023 Chevy Silverado 3500HD Pickups	Highway	\$191,988
One Vibratory Plate Compactor	Highway	\$17,512
One Walk Behind Floor Sweeper	Highway	\$4,995
One Floor Scrubber	Highway	\$4,300



# Roads

## ROADS

The Miami County Highway Department is responsible for maintaining 420.154 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 crack-sealing, where hot bitumen is applied exclusively to pavement cracks; and dura patching, which applies a mixture of bitumen and gravel to repair fractured/damaged roadways. Typically, in the spring, we experience potholes due the freeze/thaw cycles that occur during the winter months, our county crews will apply dura patch to those areas that appear on county roadways. The more aggressive we can be with both applications will help to prevent larger maintenance projects for those roads until they can be resurfaced. Each year our maintenance crews also completes numerous berm and spot repairs as needed.

The 2022 paving program resulted in 22.728 miles of county highways being resurfaced with asphalt concrete by the John R. Jurgensen Company at a cost of \$2,500,483.15. Roads resurfaced in the 2022 paving program included portions of Covington-Gettysburg, Kessler-Frederick, Piqua-Clayton, Statler and Versailles. 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, eight of the twelve townships resurfaced 13.625 miles of township roadways at a total cost of \$1,905,663.11.

Another way to treat pavement surfaces that have more severe deterioration is to chip seal over the entire roadway. In 2022, we contracted with Ray Hensley, Inc. of Springfield, Ohio to chip seal 14.693 miles of roadway. These included portions of Bollinger, Lefevre, Lena-Palestine, Lostcreek-Shelby, Stillwell, and Union-Shelby. Each road receives a treatment of MC-3000 at 0.40 gal/SY and #8 Stone at 25#/SY. The total project cost for the chip seal program was \$354,174.36. Last year's Chip Seal Program also included three townships for a total of 8.557 miles at a cost of \$196,575.08.

As recited on page 1, we had one special paving project resulting in an additional 4.60 road miles being paved in 2022. Of the \$720,468 total cost to resurface Piqua-Troy Road from the City of Troy Corp Line to the City of Piqua Corp Line, \$144,093 or 20% was the local share; the remaining \$576,375 (80%) 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.

## CULVERTS

In 2022, our culvert crew replaced 56 structures at a total cost of \$448,783. Twelve structures were replaced due to advanced deterioration of the metal pipe. Forty-four metal culverts were replaced on roads which were scheduled to be resurfaced, to avoid having to cut into any new roadway in the foreseeable future.

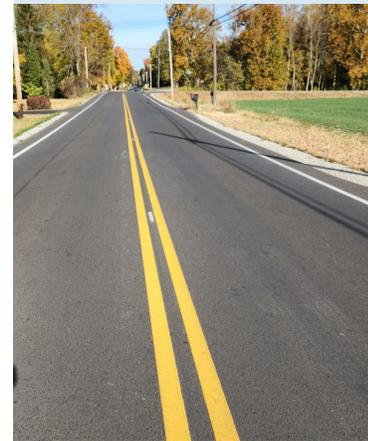
Two of our larger culvert replacements in 2022 were on Kessler-Frederick Road in Union and Monroe Townships. Our county crews replaced seven culverts on Kessler-Frederick Road. Culvert No. 0.831 involved supporting a gas line, installing footers, and placing 80 L.F. of 72" RCP at a cost of \$43,815. Kessler-Frederick Culvert No. 1.496 involved installing footers, a catch basin and 12" tile, along with placing 72 L.F. of 60" RCP. The cost of the project was \$39,190.

In preparation of the paving program, county crews replaced 14 culverts on Versailles Road. At Versailles Road Culvert No. 0.557, 80 L.F. (twin 40 L.F. pipes) of 43"x68" elliptical RCP was installed. This project also involved removing concrete headwalls, replacing 18" tile under the road, adding catch basins and connecting existing 12" and 15" tile. The cost of the project was \$42,654.

Another of our larger culvert projects, in 2022, was one of the four culverts replaced on Troy-Urbana Road. Culvert No. 2.852 was replaced with 40 L.F. of 58"x91" elliptical RCP. At this location, 24" tile under the road was replaced with 24" dual wall plastic pipe and two catch basins were installed. The total cost was \$39,695.

Other roads receiving culvert replacements were Covington-Gettysburg Road, Piqua-Troy Road, and Statler Road. In 2023, we anticipate replacing 45+ culverts as part of our on-going culvert upgrade program.

*Paving of Piqua-Troy Road from the City of Troy Corp Line to the City of Piqua Corp Line was 80% funded by CEAO CSTP funds*



# Bridges



*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. The Miami County Bridge Levy Renewal was approved by the voters during the November Election of 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.*

As mentioned on the cover page of this report, the largest bridge project in 2022 was the Frederick-Garland Road Bridge No. 07.67 Replacement Project. Proposals for the project were received on July 15, 2021 and subsequently awarded to Eagle Bridge Co. of Sidney, Ohio in the amount of \$1,149,767. The existing bridge was a three span continuous, non-composite rolled steel beam structure with a concrete deck and superstructure that spans Brush Creek. It was replaced with a single span composite steel plate girders with a concrete deck on semi-integral abutments. The bridge was completed on June 2, 2022 at a total cost of \$1,198,647 and was 33% funded by OPWC Funds.

Proposals were received on September 7, 2021 for the Ziegler Road Bridge No. 00.57 Replacement Project. Durst Brothers Excavating of Tipp City, Ohio submitted the lowest proposal at \$272,437. The existing bridge, a steel beam structure with a wood deck and stone abutments was replaced with a new 20'x10' four-sided concrete box 36 feet wide with 6-6"x2'-6" footers on each end of the box. The bridge carries Ziegler Road over the Hydraulic Canal in Piqua. Temporary cofferdams were constructed to facilitate construction of the box culvert and were removed immediately after completion of the project. The Hydraulic Canal has a clay liner that was installed years ago to prevent water seeping through the levy, therefore, excavation was kept to a minimum as to not disturb the clay liner. The replacement project was completed on September 16, 2022 for a total cost of \$280,164 and was funded by local funds.

On November 30, 2021, bids were received for the 2021 Miami County Bridge Package. The bridge package included the replacement of the Loy Road Bridge No. 04.51 and the Peterson Road Bridge No. 05.66. Brumbaugh Construction, Inc. of Arcanum, Ohio was awarded the project in an amount of \$1,017,613.00. The Loy bridge was completed on April 15, 2022 and the Peterson Bridge was completed on October 8, 2022. The bridges were both replaced with prestressed box beams for a total cost of \$1,023,743.28. Both bridges were eligible for the Credit Bridge Program and requested a total of \$818,994.62 in bridge credit.

The 2022 Miami County Bridge Package included the replacement of Hill Road Bridge No. 00.51 and Sugar Grove-Circle Hill Road Bridge No. 00.13. Bid were received on February 8, 2022 and was awarded to Brumbaugh Construction, Inc. for an amount of \$926,523.00. Both bridges were also replaced with prestressed box beams. The Hill Bridge was completed on April 11, 2022 for a total amount of \$408,979 and the Sugar Grove-Circle Hill Bridge was completed on July 22, 2022 for a total amount of \$506,672. Both bridges were eligible for the Credit Bridge Program and requested a total of \$732,521.78 in bridge credit.

The Versailles Road Bridge No. 4.74 located approximately 2,900 feet east of State Route 48 was replaced by the Miami County bridge crews. The bridge was replaced due to the deterioration of the stone abutments and steel girders. The replacement included a new concrete beam bridge at a total cost of \$180,302.

## **2023 Replacement Projects:**

- Knouff Road Bridge No. 00.16 Replacement, this structure is in poor overall condition due to the deterioration of the steel girders and timber deck and will be replaced by 54'-0" L.F. of 14'x8' four-sided precast concrete box culvert. (100% Local Funds)
- Tipp-Elizabeth Road Bridge No. 04.25 Replacement, an existing single span concrete "T" beam structure on stone and concrete abutments, will be replaced with a 20'x9' four-sided box culvert. The estimated cost is \$520,579. (100% Federally Funded)
- Owens Road Bridge No. 01.67 Replacement, an existing steel truss bridge, will be replaced with prestressed box beams. Brumbaugh Construction, Inc. was awarded the project for an amount of \$621,692. The completion date is July 28, 2023. (64% OPWC, 36% Local Funds)

# Services

## SIGN DEPARTMENT

Every 5 years, an inspection of the County's traffic signs takes place to determine the nighttime visibility (retro reflectivity) of the sign inventory. In order to determine the traffic signs that needs replaced, the County's sign department conducts a Visual Nighttime Inspection which includes a survey of the entire sign inventory during nighttime hours. In 2020, a Visual Nighttime inspection was completed and the process of replacing signs that have been determined to have low retro reflectivity has begun. In 2022 the Miami County Sign Shop has replaced a total 551 signs with non-compliant reflectivity on County and Township roads.

In addition to the above-mentioned sign replacements, our sign department replaced or reset approximately 512 signs in 2022. Of these 512 signs, roughly 151 were replaced due to traffic accidents, 52 due to vandalism, 6 for routine maintenance, and 14 due to weather related incidents. The remainder of the signs were replaced due to continual maintenance and upgrades to our sign inventory.

### HSIP Safety Study (Pavement Marking Inventory/Compliance/No Passing Zone Study)

The Miami County Engineers Office applied for, and received, federal funding for a HSIP Safety Study (Pavement Marking Inventory/Compliance/No Passing Zone Study) in 2022. The last No Passing Zone study was done in 1992 and did not include all of the County and Township roads. The project provided an inventory of every pavement marking that is currently placed on various County and Township Roads. The safety study also determined if the No Passing Zones located on various County and Township Roads are compliant with current ODOT standards. Ten percent (\$8,944) of the project's \$89,440 cost was funded by County road funds with the remaining ninety percent (\$80,496) being funded by the CEO HSIP Program through the Ohio Department of Transportation.

The Pavement Marking Compliance / No Passing Zone project was completed in September 2022. This office received a complete inventory of all County and Township roads that currently has center line and/or edge line markings.

## MOWING & SPRAYING

In 2022, pursuant to Section 5579.04(B) of the Ohio Revised Code which states in part, ". . . county engineers . . . shall destroy all brush, briars, burrs, vines, noxious weeds . . . growing within the limits of a county road within their jurisdiction, our county crews met the mowing requirements completing multiple rounds of mowing for approximately 420 miles. This was accomplished by crews utilizing our fleet tractors that are equipped with side mount and rear offset mowers. The two mowers allow our crews to make one complete pass versus the previous two passes that were required to reach the right-of-way limits, fence or crop line. Our crews also mowed 142.18 acres of petition drainage ditches, utilizing in-house equipment and resources.

For our annual spray programs, we solely rely on contracted services. We contracted with Vegetation Tech LLC of Troy, Ohio to spray 142.18 acres of agricultural ditches for \$17,395. Vegetation Tech also sprayed 96,333 lineal feet of guardrail for \$6,261. DeAngelo Brothers LLC of Fremont, Ohio sprayed 380+/- miles of roadside ditches at a total cost of \$31,018.

## SNOW & ICE REMOVAL

As of January 30, 2023, the total cost of the 2022-2023 winter season, including labor, equipment and materials, stands at \$100,633.33. Should we continue to see milder than normal temperatures, we will have the second lowest-costing winter season in the past 32 years (the lowest being \$86,889.62 during the 2011-2012 winter season). Having fewer events of the freeze/thaw cycles this winter season will hopefully reduce the amount of surface road maintenance e.g. dura patching and cold mix patching our road crews will need to perform as the weather breaks. So far this season, our crews have a total of 1,035 hours (including regular and overtime hours) at a cost of \$31,717; 893 equipment hours at a cost of \$8,867.65; and \$60,048.68 for materials (including salt, grits, and fuel). The price per ton of salt went up by \$19.63 (33%) from the 2021-2022 winter season price of \$58.84 to the current price of \$78.47 per ton for the 2022-2023 winter season.

## PAVEMENT MARKING

In 2022 we utilized contracted services to complete our edge line and center line marking on both county and township roads. We contracted with The Aero-Mark Company LLC of Streetsboro, Ohio to complete center line marking on 139 road miles of county highway and 49 miles of township highway at a cost of \$100,956. Aero-Mark also edge lined 279 line miles of county highway and 102 miles of township highway at a cost of \$188,976. Most of the county-maintained roads are on a three-year striping schedule.

# Drainage

DITCH NAME	NO.	CONSTRUCTION COST BASIS	2022 ACTUAL ANNUAL COLLECTION	TYPICAL ANNUAL EXPENSES
AGENBROAD	852	\$68,420.78	\$3,258.13	"New Const"
* ** BEARD	807	\$10,882.87	\$3,477.26	\$3,650.00
CALDWELL	849	\$429,990.86	\$12,901.79	\$3,950.00
* COTTINGHAM	806	\$241,786.00	\$5,445.45	\$5,350.00
** DYE MILL	805	\$22,784.03	\$8,155.38	\$4,550.00
FREE-STINE	857	\$252,280.24	\$12,619.57	\$1,600.00
** FRESHOUR	841	\$11,916.90	\$1,430.02	\$2,400.00
** FROSTY-LANDIS	826	\$34,097.66	\$3,426.26	\$1,900.00
* ** GALLAMAR	850	\$98,702.78	\$5,689.24	\$5,350.00
* ** HARTSTEIN-SWEITZER	829	\$25,143.74	\$3,032.11	\$3,200.00
HARWOOD	818	\$207,656.20	\$17,650.75	\$34,450.00
HELMICK HARLACHER	833	\$37,225.01	\$3,946.98	\$4,600.00
LANE-HATHAWAY	842	\$18,901.11	\$2,653.23	\$5,350.00
** LEONARD	811	\$49,520.14	\$20,019.71	\$11,600.00
LUTHERAN RD. GP. JT.		MONT.	\$364.16	MONT.
** MARSH	817	\$9,777.84	\$2,446.12	\$2,000.00
MOHLER JOINT	363	MONT.	\$4,502.23	MONT.
MUMFORD	846	\$68,543.11	\$1,690.16	\$700.00
PEMBERTON	843	\$18,708.50	\$2,158.00	\$5,100.00
REEDER	838	\$39,157.81	\$3,844.93	\$2,700.00
* ** REIGHARD	824	\$12,011.01	\$2,766.34	\$1,550.00
SHELBY COUNTY JT.		SHELBY	\$7,168.53	SHELBY
SWAILES RUN	844	\$53,550.00	\$374.85	\$650.00
TROY-CONCORD	821	\$333,525.27	\$22,111.24	\$8,000.00
* UPPER LUDLOW	845	\$264,994.15	\$356.75	\$900.00
WAUGER BRANCH	808	\$578,446.32	\$11,475.73	\$6,500.00
* ** WELSCH	814	\$18,664.96	\$2,592.92	\$4,100.00

*	= Evaluate Current Collection
**	= Construction Base Needs Re-Evaluated
^	= Collection Rate Adjusted For 2018
>	Construction Costs Based Upon Auditors Detail Reports
>	Lutheran Rd. Gp. Joint and Mohler Joint = Mont. Co. Maintenance
>	Shelby County Jt. Ditches = Shelby Co. Maintenance

## DITCHES

Annual assessments are collected to finance on-going maintenance on 27 ditches in Miami County (see chart at left). 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. Ten ditches (double asterisk) require 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 with no adjustments for inflation ever being 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). Until the construction base is raised, additional funds cannot be collected to cover the additional work needed. Review of the construction base for the Beard and Hartstein-Switzer ditches is planned for the first half of 2023. Resource limitations will determine if the review of other ditches (double asterisk) listed will be completed in 2023.

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 2022 the Cottingham, Frosty-Landis, Harwood, Troy-Concord, and several other ditches required such repairs. In 2023 we anticipate that 14 of the 27 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. Soaring material prices and other limitations continue to negatively affect our ability to complete planned ditch maintenance activities.

The plans and specifications for a sectional replacement of the Harwood Ditch No. 829 tile main are currently being finalized. The first of this sectional replacement is hoped to be completed during the summer of 2023. This first section will be advertised for public bid, with alternates in an effort to effectively utilize the maintenance assessments collected from properties within the Harwood Watershed.

Construction of the Agenbroad Group Ditch No. 852, located in Bethel Township was completed in 2022. This improvement was constructed pursuant to O.R.C. Chapter 940, Soil and Water Conservation Commission. The completed improvement included the installation of drainage tile, tree and brush removal, and restoration. All portions of the constructed Agenbroad Group Ditch within the project extents will be maintained pursuant to O.R.C. Chapter 6137, Ditch Maintenance Fund.

The purchase of a replacement mower for maintenance ditches is currently being finalized. Maintenance area width limitations, development encroachment, machinery efficiency, and employee safety are four of the factors influencing our equipment evaluation and selection process. The selection and approval of a replacement ditch maintenance mower is anticipated to be completed in the first quarter of 2023.

# Federal / State Funded Projects

## ROADS

**TROY-URBANA ROAD RESURFACING PROJECT**    **Year: 2023**    **Total Cost: \$1,400,000**

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

**Local Share: \$280,000 (20%)**    **Other Funding: \$1,120,000 - CEAO STP (80%)**

**WASHINGTON ROAD RESURFACING PROJECT**    **Year: 2023**    **Total Cost: \$395,500**

This project consists of paving Washington Road from State Route 718 to State Route 41.

**Local Share: \$0**    **Other Funding: \$395,500 - Federal CRRSAA Funds MVRPC (100%)**

**WASHINGTON ROAD RESURFACING PROJECT**    **Year: 2024**    **Total Cost: \$624,000**

This project consists of paving Washington Road from the State Route 41 to Drake Road.

**Local Share: \$124,800 (20%)**    **Other Funding: \$499,200 - CEAO STP (80%)**

## BRIDGES

**TIPP-ELIZABETH ROAD BRIDGE NO. 04.25**    **Year: 2023**    **Total Cost: \$520,380**

This project consists of replacing the existing bridge over the Branch of Honey Creek.

**Local Share: \$0**    **Other Funding: \$520,380 - LBR Funds (100%)**

**PETERSON ROAD BRIDGE NO. 00.05**    **Year: 2024**    **Total Cost: \$5,738,000**

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

**Local Share: \$738,000 (13%)**    **Other Funding: \$5,000,000 - CEAO (87%)**

**TROY-SIDNEY ROAD BRIDGE NO. 01.20**    **Year: 2024**    **Total Cost: \$506,072**

This project consists of replacing the existing bridge over Spring Creek.

**Local Share: \$0**    **Other Funding: \$506,072 - CEAO (100%)**

## TAX MAP

The Tax Map Department draws and maintains tax maps for over 53,600 parcels of land in Miami County. A tax map shows the shape, size, area, 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, Land Survey records, Lot Survey records, and Recorded Plats 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 special mapping projects from time to time. Members of the staff have updated and are maintaining township right-of-way maps, showing legal widths of all township and county roads. Also, in 2022, the department reviewed the content and mathematical accuracy of 130 boundary surveys, many of which are multiple tracts. 153 surveys were filed for record with the County Engineer, some of which had been reviewed in the previous year. The department also reviewed and checked the mathematical accuracy of more than 70 Recorder's Plats, which consist primarily of residential and commercial subdivisions, street and alley vacations, annexations, and right-of-way plans of road projects. A total of 59 Record Plats were recorded in 2022, as well as a number of sets of road/highway plans. Finally, the department reviewed the legal descriptions of every property transferred in Miami County, where over 6200 deeds, affidavits, and Certificates of Transfer were recorded, each one containing one or more legal descriptions requiring review by the department. This number does not include descriptions which were reviewed strictly for title purposes.

*Our paving outlook for 2023 includes a total of 24.387 miles of roadway with an estimated cost of \$1,500,340.*

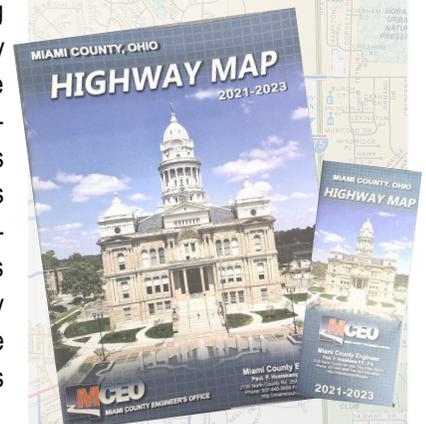
*This will include portions of Eldean, Evanston, Hardin, Landman Mill, Lauver, Loy, and Monroe-Concord East roads. The above-mentioned mileage includes 8.495 miles of Troy-Urbana Road which is a special paving project. Also included is 1.869 miles of Washington Road from SR 718 to SR. 41 which is 100% Federally funded.*



Existing Troy-Sidney Rd. Br. #01.20

## 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.



*"Our decisions about transportation determine much more than where roads or bridges or tunnels or rail lines will be built. They determine the connections and barriers that people will encounter in their daily lives—and thus how hard or easy it will be for people to get where they need and want to go." ~ Elijah Cummings.*

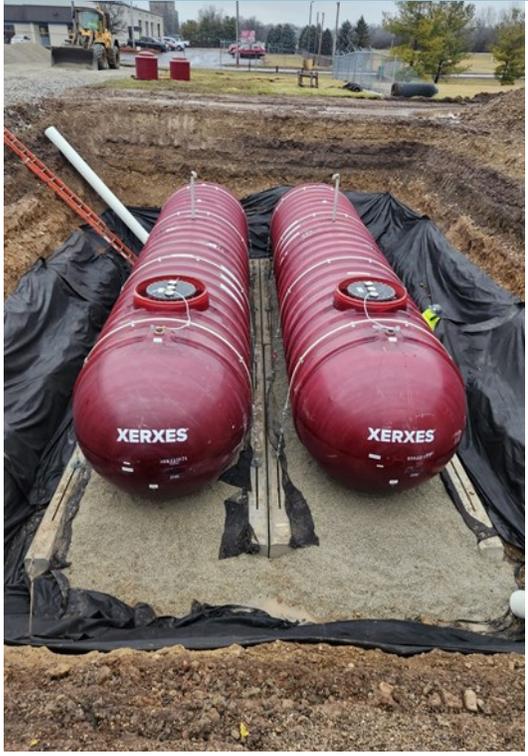


PLEASE  
PLACE  
STAMP

2100 N. County Rd. 25A  
Miami County Engineer's Office



## Miami County Highway Garage New Fuel Island



On August 5, 2021, bids were received by the Board of Miami County Commissioners for the replacement of the Miami County Fuel Island which services 30 Miami County offices. One proposal was received by the Board from Lawrence Building Corporation of Fort Wayne, Indiana but it exceeded the engineer's estimate by more than the allowable 10%. The project was therefore re-bid. On December 21, 2021, two proposals were received by the Board and opened. The proposal received from Westerheide Construction Company of Sidney, Ohio was below the engineer's estimate and was subsequently awarded on January 25, 2022 in an amount of \$1,149,000.00. Once the project was awarded, it took approximately one year for the tanks to be built and arrive at the county highway garage. The two twelve thousand gallon tanks were installed on January 12, 2023. The construction of the new fuel island will be on-going with an anticipated completion of mid-2023. The new fuel system will be similar to the current fuel island which was built in 1990. The new fuel station will be shifted slightly to the north of the existing station, it will have two fuel pumps, a fuel hut with a kiosk drivers will use to identify their vehicle/equipment, and a galvanized steel canopy.