



## 2024 MEDINA COUNTY ENGINEER'S ANNUAL REPORT

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Medina County Engineer

To the Board of Medina County Commissioners

It is my privilege to present the Annual Report for the Office of the Medina County Engineer. In accordance with the Ohio Revised Code, an annual report must be made to the Board of County Commissioners summarizing the activities of the County Engineer's office. It also provides a summary to the citizens of Medina County of an accounting of where their tax dollars were spent in order to improve and maintain the County-owned roads, bridges, and culverts.

The employees of the Medina County Engineer's Office work each day to provide the motoring public and residents of Medina County with a safe and well-maintained network of county roads and bridges. Our mission is to ensure a safe, efficient, and sustainable transportation system in Medina County. We provide highway engineering, maintenance, and planning services while prioritizing safety, innovation, and collaboration. Our goal is to optimize connectivity, support economic growth, and provide quality service to the public. I want to offer a sincere "Thank-you" to all of the employees for a great year of not only maintaining, but improving, the infrastructure under the jurisdiction of this office.

The Medina County Highway Department is responsible for maintaining the 323.60 miles of highway that is under the jurisdiction of this office. In addition to asphalt paving, county crews utilize various patching and sealing activities to extend pavement life. One such method is through the use of "crack sealing". This method utilizes a hot bituminous tar, applied directly to a crack, to prevent water from infiltrating the pavement and causing further deterioration. During the winter months, we also utilized "cold patch" material to fill in potholes to provide better rideability and prevent pothole growth and further pavement deterioration. Being aggressive with both of these applications will help to prevent larger maintenance projects for those roads until they can be resurfaced. Each year our maintenance crews also complete numerous berm and spot repairs as needed.

### **VEHICLE/EQUIPMENT PURCHASES**

Below is a summary of the major vehicle and equipment purchased in 2024.

Gledhill Snow Plow	\$19,800.00
Swenson 6" Salt Spreader	\$5,500.00
Backpack Blower	\$519.99
Pole Saw	\$599.99
String Trimmer (2)	\$1,135.98
Chain Saw (3)	\$2,754.98
Dump Truck Cab & Chassis (2)	\$255,334.00
Crafco Crack Sealer	\$73,240.00
Sheriff Scales Truck	\$65,619.00
Extendobed for Scales Truck	\$7,751.00
Knapheide Truck Accessory	\$4,900.00
Bomag Plate Compactor	\$2,096.00
Case Loader	\$269,493.45
Truck Body and Snow/Ice Packages (2)	<u>\$203,501.52</u>
	\$839,005.91

## BRIDGE DATA

The State of Ohio defines a bridge as a structure that has a span of 10 feet or more. The Medina County Engineer is responsible for maintaining bridges on County and Township roads within Medina County. We are required to perform an annual inspection of the condition of every bridge on our inventory and report the results to ODOT and FHWA.

Below is a summary of the condition of the 282 bridges that we currently maintain.

CONDITION DESCRIPTION	BRIDGE GENERAL APPRAISAL	NUMBER OF BRIDGES	PERCENT OF TOTAL BRIDGES	ACCUMULATING PERCENT
EXCELLENT	9	44	15.6%	15.6%
VERY GOOD	8	39	13.8%	29.4%
GOOD	7	91	32.3%	61.7%
SATISFACTORY	6	65	23.0%	84.8%
FAIR	5	34	12.1%	96.8%
POOR	4	7	2.5%	99.3%
SERIOUS	3	2	0.7%	100.0%
CRITICAL	2	0	0.0%	100.0%
OUT OF SERVICE	1	0	0.0%	100.0%

One bridge with a GA = 3 (Serious) and four bridges with a GA = 4 (Poor) are scheduled to be replaced in 2025. Two additional bridges with a GA = 4 are funded for replacement in 2026. This means that seven of our worst 9 bridges will be replaced by 2026.

This year's bridge replacement contracts had an aggregate total of \$1,240,167.57. Of that amount, my office secured \$1,057,814.34 in federal and state grants. Below is a summary of these projects.

### CH 22, Marks Road – Bridge #49 Replacement

Contractor: Fechko Excavating

This project consisted of the replacing a pre-stressed box beam bridge with a concrete slab bridge.

Final Contract Price: \$268,756.76

Funding Source: Medina County Engineer Funds and OPWC (\$192,500.00 Grant)

### CH 27, River Corners Road - Bridge #44 Replacement

Contractor: Bartley and Bolin Excavating

This project consisted of the removal of single cell CMP and the installation of an aluminum box culvert.

Final Contract Price: \$188,867.29

Funding Source: Medina County Engineer Funds and OPWC (\$139,761.79 Grant)

### TH 28, Pawnee Road - Bridge #14 Replacement

Contractor: R & I Construction

This project consisted of the removal of single span steel beam bridge and the installation of a single span pre-stressed box beam bridge. This project included major safety upgrades. \_

Final Contract Price: \$563,347.50

Funding Source: Federal Funds through CEAO (\$563,347.50 Grant)

## TH 113, Metzger Road - Bridge #1 Replacement

Contractor: Vasel Brothers, Inc.

This project consisted of the removal of a triple cell wood box and the installation of a four-sided concrete box culvert.

Final Contract Price: \$219,196.02

Funding Source: Medina County Engineer Funds and OPWC (\$162,205.05 Grant)

The following bridges were replaced using County personnel:

CH 60, Ridgewood Road – Bridge #26

CH 62, Mattingly Road – Bridge #7

TH 94, Wolff Road – Bridge #2

County employees made structural repairs and re-decked CH 34, Franchester Road – Bridge #2

County forces performed maintenance on additional bridges that included guardrail post replacement, guardrail repairs, deck sealing, pavement repair, and deck repair.

## **ROADWAY RESURFACING AND REHABILITATION CONTRACT EXPENDITURES**

Below is a summary of the roadway resurfacing projects that were completed using contractors through the competitive bidding process.

### 2024 Medina County Item 441 Thin Overlay

Contractor: Melway Paving Co., Inc.

Final Contract Price: \$920,733.48

Funding Source: Medina County Engineer Funds

### 2024 Medina County Pavement Planing and Repair

Contractor: Melway Paving Co., Inc.

Final Contract Price: \$260,906.40

Funding Source: Medina County Engineer Funds

### 2024 Medina County Item 422 Single Chip Seal

Contractor: Melway Paving Co., Inc.

Final Contract Price: \$668,742.96.

Funding Source: Medina County Engineer Funds

### 2024 Medina County Item 422 MC-3000 Chip & Seal

Contractor: Melway Paving Co., Inc.

Final Contract Price: \$427,126.35

Funding Source: Medina County Engineer Funds

## 2024 C.H. 19, Lake Road Concrete Pavement Replacement Project

Contractor: Denes Concrete Inc..

Replaced 1000 Square Yards of failing concrete slabs

Final Contract Price: \$154,514.20

Funding Source: Medina County Engineer Funds and TID Jobs & Commerce (\$78,318.95 grant)

## **PAVEMENT MARKING**

### MED-CRPM-FY2024

Contractor: J.D. Striping & Services, Inc.

Final Contract Price: \$160,944.80

Funding Source: Medina County Engineer Funds and CEAO (\$150,000.00 grant)

## **SIGNAL & SIGN UPGRADE PROJECTS**

### 2024 MEDINA COUNTY SIGNAL UPGRADE PROJECT

Contractor: Signal Service Company.

Final Contract Price: \$200,895.00

Funding Source: Medina County Engineer Funds

### 2024 SIGN UPGRADES

We were able to secure two CEAO grants totaling \$42,429 to purchase material for sign upgrades.

## **FORCE ACCOUNT UPDATE AND SUMMARY**

Below is a summary of work tasks that were completed using county employees and equipment with purchased materials.

\$681,223.82 - Snow & Ice Removal

\$255,027.59 - Pavement Patching/Repair

\$121,964.43 - Crack Sealing

\$245,697.44 - Berm/Shoulder Maintenance

\$488,828.99 - Ditch Maintenance

\$232,990.63 - Culvert Replacements/Maintenance

\$592,921.57 - Bridge Maintenance

\$ 7,637.96 - Sewer Jetting

\$185,120.34 - Roadside Mowing

\$334,052.98 - Tree Removal

\$104,404.98 – Guardrail Maintenance

\$ 6,197.46 – Sign Maintenance

\$ 65,706.22 – Pavement Marking

\$ 10,361.41 – Miscellaneous

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\$3,332,135.82 – Total – This represents the amount of work completed by our county maintenance forces.

## FINANCIAL SUMMARY

The maintenance, repair, and construction of roads and bridges on the County Highway System is funded from license plate fees collected for vehicles registered in Medina County and a share of the Ohio Motor Fuel Tax. No Real Estate or Sales Tax is used for highway purposes. Federal gas tax and State Issue 1 funds are utilized on specific projects when our office is successful in securing these funds.

Below are the general summaries of the Expenses and Revenues for 2024

2024 EXPENSES		2024 REVENUES	
Salaries	\$3,377,785	Motor Vehicle Registration Fees	\$7,596,477
Fringe Benefits	\$1,217,866	Motor Vehicle Fuel Tax	\$3,871,745
New Equipment/Vehicles	\$1,260,550	Fees	\$0
Travel/Training	\$8,796	Fines	\$28,490
Road/Bridge Contract Repairs	\$5,111,523	Sales/ Reimbursements	\$344,653
Contract Services	\$1,195,804	Investment Income	\$139,315
Materials/Fuel	\$1,450,719	Other	\$24,284
Land & R/W Acquisition	\$4,500		
Miscellaneous	\$47,571		
Tot al	\$13,675,114	Tot al	\$12,004,964

Our office was successful in securing numerous grants this year that were used to assist in a number of our contract projects. All grant money is not shown in the Financial Summary above.

At the end of 2024, \$1,899,560.28 of the 2024 Expenses listed above are encumbered funds that have not been spent.