

WAYNE COUNTY ENGINEER'S OFFICE

2022 ANNUAL REPORT



Wayne County Engineer
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Each year, the constituents of Wayne County entrust the Wayne County Engineer in coordination with the Wayne County Commissioners to maintain 499 miles of county infrastructure including 486 bridges. This annual report summarizes the efforts of the Engineer, Highway Maintenance and Tax Map departments for 2022.

In 2022 the County Engineer's Office had expenditures totaling \$9,620,300. This is an increase of roughly \$775,000 over what was spent per annual average in 2020 and 2021. The additional expenditures not only provided a little over 19 miles of pavement resurfacing but also encumbered funds to replace 3 large deficient bridge in 2023 totaling close to \$3,000,000. The 2022 Wayne County road and bridge improvements are summarized as follows:

- Replaced/ Rehabilitated 6 bridges and repaired 7 bridges;
- Replaced 4 large culverts and 41 small culverts;
- Road Resurfacing on 19 miles of roadway
- Road improvements on 48.64 miles of roadway;
- Striped 167 miles of centerline and 142 miles of edge line

For additional information about the Wayne County Engineer's 2022 activities and to view our proposed 2023 work plan, please visit our website:

www.wayne-county-engineer.com.

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I want to express my sincere appreciation to my staff for compiling this report and to the Board of Wayne County Commissioners for their cooperation in achieving our goals.

Scott A. Miller, P.E., P.S.
Wayne County Engineer

PERSONNEL

SCOTT A. MILLER, P.E., P.S.
WAYNE COUNTY ENGINEER

ADMINISTRATIVE SERVICES DEPARTMENT

Michelle Hall, Office Manager (4/4/22)
Leighanna Cawrse (1/23/23)

ENGINEERING DEPARTMENT

Andrew D. Jones, Assistant County Engineer
Eric Liew, P.E., P.S., Bridge Engineer
Ryan Marthey, P.E., Drainage/Roadway Engineer
Brock Yoder, Permit & Traffic Safety Supervisor
Shania N. Reed, Engineering Technician
Craig Wuthrich, Engineering Technician

TAX MAP OFFICE

Stacy Peppard, Tax Map Supervisor
Lisa Burns, Tax Map Specialist

HIGHWAY MAINTENANCE DEPARTMENT

Pat Miller, Bridge Superintendent
Dave Corbett, Fleet and Facility Manager
TJ Shamp, Highway Superintendent
Dean Whitman, Assistant Highway Superintendent

Tristin Baker (4/4/22) ~ John Baldner ~ John Eubanks ~ Bob Ewing ~ Rick Fletcher (12/12/22)
Shawn Franks (6/21/22) ~ Brad Gross (5-31-22) ~ Rodney Hartzler ~ Lukus Hawk ~ Jon Hudson ~ Mike Hyatt
Corey Keplar ~ Nate Klepper ~ Jeremy Leckrone ~ Aaron Mackey ~ Kevin Miller ~ Jr. Mowrer
Erik Ogden (9/12/22) ~ Don Phillips ~ Jakob Robinson (10/3/22) ~ Cooper Smith (3/14/22)
Matt Swartz (9/6/22) ~ Trent Swinehart ~ Dustin Taylor ~ Cody Truman

Sign Shop ~ Jeff Metcalf, Dave Richard

Mechanic (Shop) ~ Joe Burns, Kyle McAfee

Retired/Resigned: Pam Brown, Administrative Assistant, (Retired 5-12-22)
Cindy Nolt, Account Clerk II, (Retired 12-31-22)
Mike Pritchett, Fleet Manager, (Retired 10-28-22)
Brian Spotts, Highway Maintenance Worker III, (Retired 10-3-22)
Steve Stewart, Highway Maintenance Worker III, (Resigned 7-28-22)
Scott Loving, Highway Maintenance Worker III, (Retired 9-29-22)
Jeff Zerrer, Highway Maintenance Worker III, (Retired 8-22-22)
Marlin Questel, Highway Maintenance Laborer, (Retired 1-14-22)

DUTIES OF THE COUNTY ENGINEER

The Engineer has the responsibility of performing for the County all duties authorized or declared by law to be done by a civil engineer or surveyor, and accordingly must hold registration certificates of the State of Ohio as both Professional Engineer and Professional Surveyor.

The Engineer, in cooperation with the County Commissioners, is responsible for all maintenance, repair, widening, resurfacing, reconstruction, and construction of roads and bridges on the county highway system; 498.819 miles.

The Engineer serves as an advisor to the Township Trustees for the maintenance, repair, widening, resurfacing, and reconstruction of their highways. The bridges on the township highway system are the full responsibility of the County.

The Engineer is also responsible for many bridges within municipalities. These bridges are located on streets which are extensions of county or township roads.

Also, the Engineer must maintain a perpetual inventory of all bridges on the county and township highway system, including an annual inspection and evaluation of the condition and load carrying capacity of each bridge.

The Engineer is the Tax Map Draftsman for the County and at the discretion of the County Commissioners, he may also serve as the Acting Sanitary Engineer.

2022 FINANCIAL INFORMATION

2022 INCOME

\$4,899,351	License Fees & Permissive Tax	55%
\$3,700,503	Gasoline Tax	41%
\$368,525	Other (fines/fees/misc)	4%
<u>\$8,968,379</u>		

2022 EXPENDITURES

\$3,418,207	Labor & Fringes	36%
\$3,246,006	Road Materials/Contracts	34%
\$748,400	Bridge Materials/Contracts	8%
\$622,187	Vehicle - Repair - Fuel	6%
\$550,111	Issue II Projects/Loans	6%
\$494,892	Equipment	5%
\$278,141	Building Loan	3%
\$262,356	Building/Supplies and Contracts	3%
<u>\$9,620,300</u>		

BRIDGES

The Wayne County Engineer is responsible for inspection, maintenance, and construction of 486 bridges on county and township roads, and extensions of those roads through municipalities.

INSPECTION: Annual inspections for 486 bridges are performed in accordance with the latest Ohio Department of Transportation Bridge Inspection Manual. Some bridges are inspected and monitored more frequently because of known deficiencies.

LOAD RATINGS: To be in compliance with the National Bridge Inspection Standards; the Federal Highway Administration (FHWA) requires ratings on all structures with a span greater than 20'. The load rating is performed for the safety of the traveling public. The carrying-capacity of all bridges in the State of Ohio are rated using a standard set of vehicles, called "Ohio Legal Loads". In addition to the current Ohio rating practice of using Ohio legal trucks, the Ohio Department of Transportation (ODOT) has implemented a plan of action in response to the Federal Highway Administration (FHWA) requirement to incorporate the Specialized Hauling Vehicles (SHV) and Emergency Vehicles (EV) as per AASHTO's "Manual for Bridge Evaluation, Second Edition" into all new load rating analyses.

Load ratings, performed on Wayne County bridges in 2022, resulted in 1 bridge being submitted to ODOT with new or updated load limits. In addition, the posted load limits were removed on two (2) bridges in 2022. Wayne County currently has 64 load limit bridges.

2022 BRIDGE PROJECTS:

Replaced or Rehabilitated Bridges:

SAL-TR197-1.18, Hogback Road, \$42,973.33
SAL-CR2-3.02, Harrison Road, \$46,969.70
MIL-TR48-1.50, Pleasant Home Road, \$92,735.12
CON-TR70-0.09, West Salem Road, \$101,995.91
EAS-TR302-0.30, Barnard Road, \$71,314.94
WAY-CR78-2.53, Hutton Road, \$98,347.92
TOTAL: \$454,336.92

Seven (7) other bridge structures received repairs totaling **\$53,713.33**.

CULVERTS

The Wayne County Engineer is responsible for inspection, maintenance, and construction of 317 large culverts on county roads. Large culverts are defined as culverts having a span or rise greater than or equal to 48" and less than 120" (10'). Structures with a span greater than/equal to 120" (10') are considered bridges.

INSPECTION: Inspections of large culverts are performed on a five (5) year rotation in accordance with the latest Ohio Department of Transportation Culvert Management Manual. Some culverts are inspected and monitored more frequently because of known deficiencies.

At the request of the Township Trustees; the Wayne County Engineer's Office will inspect the large culverts on township roads. There are approximately 244 large culverts on township roads.

CONSTRUCTION: Four (4) Large Culverts were replaced or extended by county forces in 2022:

Forty-one (41) small culverts (less than 48") were replaced/repared by county forces; the county maintains 2,183 small culverts.

HIGHWAY MAINTENANCE

County Force Account for 2022 were as follows:

- Drag Patched – 43.94 miles - \$735,312
- Scratch Pave – 4.70 miles - \$259,070

Contract Projects for 2022 were as follows:

- Eastern Road (A-C) - Paving – 3.47 miles - \$565,898 – Melway Paving – AMATS
- East Lincoln Way (F-L) - Paving – 7.33 miles - \$1,357,454 – Kokosing Construction – CSTP
- Moreland Road (E-H) – Paving – 4.37 miles - \$689,286 – Kokosing Construction - OPWC
- Prairie Lane Road (A-D) – Paving – 3.85 miles – \$593,518 – Kokosing Construction - Local
- Cutting Berms – 125 lane miles - \$144,230 - Melway Paving
- Guardrail Spraying and ROW Spraying – \$56,322.38 – DCS DeAngelo
- Mowing (two rounds) ~ \$48,000, Meyer All Terrain Mowing

SNOW & ICE: County crews spent 3,711.75 hours salting/plowing county roads during the 2022/2023 snow season on 30 individual snow events.

Labor:	\$ 80,174.41 (3,711.75 hours)
Equipment:	\$139,959.00
Material:	<u>\$168,527.81</u> (3,213.25 Tons Salt, 825 Gal. Brine, 188 Tons Grit)
Total:	\$388,661.22

Salt:	2022/2023	\$51.14 per ton
	2021/2022	\$45.28 per ton
	2020/2021	\$57.29 per ton
	2019/2020	\$89.51 per ton
	2018/2019	\$65.46 per ton

EQUIPMENT PURCHASES

2022 Transit Connect Van	\$34,080 (Delivered in 2023)
2022 New Holland tractor	\$69,874

TRAFFIC CONTROL

The primary responsibility of our traffic control staff is the inspection and maintenance of 8,250 road signs, which includes over 1,300 road name signs and narrow/load limit signs at certain bridges on township roads. The sign shop updated or installed 878 signs in 2022 and cleaned/repainted another 292.

The Traffic Control staff performs centerline, edge line, railroad crossing symbols and stop bar painting on county roads. Yellow centerline stripes were added to 167 miles of county roads. They also painted 142 miles of white edge lines, 0 railroad crossing symbols and 76 stop bars at intersections.

PERMITS

Our office oversees work within the county right-of-way by public utilities and property owners as well as overweight and oversize vehicles using the roads. This ensures that all utility work, including relocation of overhead and buried electric, phone, cable, water and gas lines along and under the road, does not interfere with the safety and operation of the county road. Also, any work that is done by a resident to the front of their property (inside the road right-of-way), including construction of new driveways, installation of drainage pipes, re-grading ditches or installing obstructions that would otherwise affect the operation or safety of the road must be reviewed by the permit department. Special Haul Permits are for vehicles that are oversize or overweight according to the limits set by Ohio Revised Code 5577.

Permits Issued 2022:	Drive Pipes/Ditch Enclosure	80
	Utility	102
	Ditch Enclosure	32
	Special Haul	10
	Total =	224

SAFETY IMPROVEMENTS

Eastern & Serfass. Chippewa Twp. Improved intersection visibility by removing trees and regrading ditch bank.

SPEED ZONE STUDIES

Chippewa Twp Hatfield. 35 MPH
Carr Rd Sec. E F G. 50 MPH
Apple Creek Rd Sec. G H. Safe speed 55. No change
Chippewa Twp Serfass. 40 MPH

INTERSECTION SAFETY STUDIES

Carr & Emerson. New 4-way stop with LED blinker STOP signs.
Harrison & Mt. Hope. New 4-way stop with LED blinker STOP signs.

TAX MAP DEPARTMENT

The Primary function of the Tax Map Department is to process all deeds and record the parcel transfers on the appropriate map(s). Some of the instruments that the Department is required to review and approve are as follows: warranty deeds, quit claim deeds, executor's deeds, certificate of transfers, deeds of trustees, transfer on death affidavits, land contracts, sheriff's deeds, etc.

The Tax Map Department also retains and maintains historical tax maps, property surveys, railroad and highway right-of-way maps for public viewing and research. The Department provides a current set of tax maps to the County Auditor for taxation purposes. Every parcel of land in Wayne County is mapped and kept current with each landowner. These maps are available for viewing in the front office or on the department's website at http://wayne-county-engineer.com/Tax_Maps_&_Surveys/default.html. Tax maps of past years dated from 1929 forward are retained in a reference library and are available for viewing.

In 2022, there were approximately 59,600 tax parcels in Wayne County. There were 5,084 conveyances processed through this department during the year.

The Tax Map Department also administers the continuation of the county house numbering system. Numbers are assigned to new and existing building sites, cell tower sites, etc. that require an address. The new numbers are registered on a separate set of maps and index cards. New addresses are submitted to area post offices.

For many years, surveyors have been required to submit their survey plats for review and entry into the land records. There are approximately 34,633 surveys dating back to 1815. These surveys include numerous plats of allotments, subdivisions, and annexations. In 2022, this department reviewed and processed 257 survey plats.

This office prepares and maintains numerous volumes of other related maps, plats and drawings that form a part of the county mapping system. The office personnel deserve credit for performing the diversified duties that are required in serving the public and maintaining an efficient and well managed Tax Map Department.

Conveyances Processed 2022

Deed Affidavit	567
Deed Transfer	3806
Land Contracts	42
Transfer on Death	598
Transfer on Death Completed	78