

WAYNE COUNTY ENGINEER'S OFFICE

2020 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 490 bridges and 2,556 culverts. This annual report summarizes the efforts of the Engineer, Highway Maintenance and Tax Map departments for 2020.

2020 was the first year that our office was on track to receive the full \$1.5 million budget addition as a result of the increased gas tax that was implemented on July 1, 2019. Due to the Covid-19 Pandemic health restrictions travel was down which resulted in a reduction of gas tax funding of approximately \$250,000. This loss in revenue along with social distancing requirements made 2020 a challenging year. Due diligence and a dedicated work force permitted our 2020 goals to be realized and the improvements by county forces are as follows:

- Replaced 5 bridges and rehabilitated 1 bridge, 14 other bridge structures were repaired and 18 structures cleaned and sealed;
- Replaced 7 large culverts and 51 small culverts;
- Drag Patched 83.83 miles, Scratch Paved 6.17 miles and Chip Sealed 11.01 miles;
- Striped 106 miles of centerline and 45 miles of edge line

The following improvements were completed by contract bid in 2020:

- Scratch Pave 12.59 miles
- Chip Sealed 33.89 miles
- Linear Grading 47.86 center line miles
- Western Road Reclamation ~ SR 94 to SR 241
- Burton City Road Resurfacing (Issue II)
- Mowing (3 Rounds)

For additional information about the Wayne County Engineer's 2020 activities, including work by outside contractors, and to view our 2021 proposed work plan, please visit our redesigned website: www.wayne-county-engineer.com.

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.

A handwritten signature in blue ink that reads "S. Miller".

Scott A. Miller, P.E., P.S.
Wayne County Engineer
330-641-8405

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PERSONNEL

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

ADMINISTRATIVE SERVICES DEPARTMENT

Pam Brown, Administrative Assistant
Cindy Nolt, Account Clerk II

ENGINEERING DEPARTMENT

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

TAX MAP OFFICE

Stacy Peppard, Tax Map Supervisor
Lisa Burns, Tax Map Specialist (3/2020)

HIGHWAY MAINTENANCE DEPARTMENT

Pat Miller, Bridge Superintendent
Mike Pritchett, Fleet Manager
TJ Shamp, Highway Superintendent
Dean Whitman, Assistant Highway Superintendent

John Baldner ~ John Eubanks ~ Bob Ewing ~ Rodney Hartzler ~ Lukus Hawk ~ Jon Hudson ~ Mike Hyatt ~ Jarrett Kelly
~ Corey Keplar ~ Nate Klepper ~ Jeremy Leckrone ~ Scott Loving ~ Aaron Mackey ~ Kyle McAfee ~ Kevin Miller ~ Jr.
Mowrer ~ Don Phillips ~ Marlin Questel ~ Brian Spotts ~ Steve Stewart ~ Trent Swinehart ~ Dustin Taylor ~ Kevin
Troyer ~ Bryan Weiser ~ Jeff Zerrer

Sign Shop ~ Jeff Metcalf, Dave Richard

Mechanic (Shop) ~ Joe Burns, Dave Corbett

Retired/Resigned: Mike Barnhouse, Engineering Technician (Retired 10/25/20)
Dave Mowrer, Highway Maintenance III, (Retired 12/2020)
Josh Vizzo, Highway Maintenance II, (Resigned 7/2020)
Jennifer Wisard, Tax Map Supervisor (Resigned 2/2020)

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; 499.001 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.

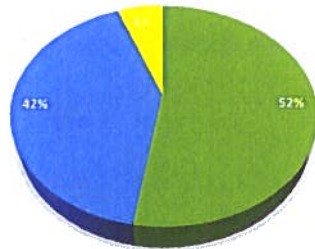
The Engineer is also responsible for many bridges within municipalities. These bridges are located on streets which are extensions of county or township roads.

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.

2020 FINANCIAL INFORMATION

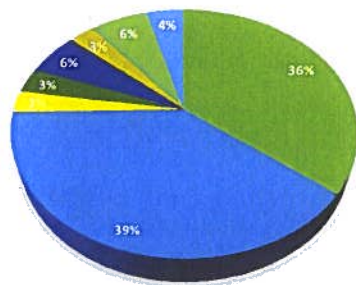
2020 INCOME



\$4,565,941.26	License Fees & Permissive Tax	52%
\$3,614,207.26	Gasoline Tax	42%
<u>\$503,804.57</u>	Other (fines/fees/misc)	6%
\$8,683,953.09		

■ License Fees & Permissive Tax 52% ■ Gasoline Tax 42% ■ Other (fines/fees/misc) 5%

2020 EXPENSES



\$3,154,801.60	Labor & Fringes	36%
\$3,453,009.63	Road Materials/Contracts	39%
\$241,922.37	Equipment	3%
\$288,470.10	Note Repayment	3%
\$511,588.23	Repairs/Fuel	6%
\$254,702.50	Issue II Projects	3%
\$578,301.71	Bridge Materials/Contracts	6%
<u>\$371,421.96</u>	Contracts/Repairs & Services	4%
\$8,854,218.10		

License plates fees decreased \$180K from 2019 which can be attributed to the delay in purchases caused by the pandemic. Our gas tax revenue increased by \$675K over the previous year.

BRIDGES

The Wayne County Engineer is responsible for inspection, maintenance, and construction of 490 bridges on county and township roads, and extensions of those roads through municipalities.

INSPECTION: Annual inspections for 490 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 2020, resulted in six (6) bridges being submitted to ODOT with new or updated load limits. In addition, the posted load limits were removed on one (1) bridge in 2020. Wayne County currently has 66 load limit bridges.

2020 BRIDGE PROJECTS:

Replaced Bridges:

SUG-TR334-5.40, Goudy Road, \$92,346.75
FRA-CR159-2.05, Graber Road, \$75,003.75
WAY-TR78-1.17, Hutton Road, \$88,475.55
PLA-TR234-1.39, Springville Road, \$79,013.66
SAL-TR165-0.91, Buss Road, \$80,438.42

Rehabilitated Bridges:

GRE-CR73-5.30, Eby Road, \$38,747.23

County labor was 20% of the total project cost, materials 60%, 7% for equipment and 13% for subcontractors.

Fourteen (14) other bridge structures received repairs and 18 bridges were cleaned and sealed.

CULVERTS

The Wayne County Engineer is responsible for inspection, maintenance, and construction of 307 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 239 large culverts on township roads.

CONSTRUCTION: Seven (7) Large Culverts were replaced or extended by county forces in 2020:

Fifty-one (51) small culverts (less than 48") were replaced/repared by county forces; the county maintains 2,249 small culverts.

HIGHWAY MAINTENANCE

County forces drag patched 83.83 miles of county roads at a cost of \$992,577. Another 6.17 miles of county road was scratch paved at a cost of \$199,029 and 11.01 miles were chip sealed at a cost of \$142,105.

County forces spent 6,150 hours cleaning ditches in 2020 at a cost of \$306,488.

Contract Projects for 2020 were as follows:

Scratch Pave ~ \$729,227 (12.59 center line miles), Melway Paving
Chip Sealing ~ \$623,545 (33.89 center line miles), Melway Paving
Linear Grading ~ \$125,706 (47.86 center line miles), Melway Paving
Western Road Reclamation ~ \$96,167, Melway Paving
Burton City Road (Issue II) ~ \$248,340, Superior Paving
Mowing (three rounds) ~ \$149,000, Quick Mow

SNOW & ICE: County crews spent 4,623.25 hours salting/plowing county roads during the 2020/2021 snow season.

Labor: \$141,596

Equipment: \$204,034

Material: \$304,082

Total this season: \$649,712

Salt:	2020/2021	\$57.29 per ton
	2019/2020	\$89.51 per ton
	2018/2019	\$65.46 per ton

EQUIPMENT PURCHASES

2020 Cargo Van, \$25,737.00

2020 Hyundai SUV, \$25,685.00

Eager Beaver Trailer, \$58,876.80

F-250 Pick Up Truck (2), \$28,240 each

TRAFFIC CONTROL

The primary responsibility of our traffic control staff is the inspection and maintenance of 9,950 road signs, which includes over 1,200 road name signs and narrow/load limit signs at certain bridges on township roads. The sign shop updated or installed 725 signs in 2020 and cleaned/repaired another 235.

The Traffic Control staff also mastered the art of road painting during 2020. Yellow centerline stripes were added to 106 miles of county roads. They also painted 45 miles of white edge lines, 52 railroad crossing symbols and 60 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 2020:	Drive Pipes	80	
	Utility	65	
	Ditch Enclosure	35	
	Special Haul	15	Total = 195

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 2020, there were approximately 59,409 tax parcels in Wayne County. There were 4,673 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 34,382 surveys dating back to 1815. These surveys include numerous plats of allotments, subdivisions, and annexations. In 2020, this department reviewed and processed 290 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 2020

Deed Affidavit	453
Deed Transfer	3663
Land Contracts	41
Transfer on Death	446
Transfer on Death Completed	70