

**2022 ANNUAL REPORT
OF THE CONDITION OF ROADS AND BRIDGES
RICHLAND COUNTY, OH**



*Cook/Mansfield-Lucas Roundabout (photo courtesy of KE
McCartney and Assoc.)*



*Tornado damage on Bunker Hill
North Rd (June 2022)*



*Adam Gove, P.E., P.S.
Richland County Engineer*

Richland County Engineer's Office

77 N. Mulberry St.
Mansfield, OH 44902
419-774-5591

Richland County Highway Department

395 N. Main St.
Mansfield, OH 44902
419-774-5594

Richland County Tax Map Department

50 Park Avenue E.
Mansfield, OH 44902
419-774-5620

Bellville Outpost

138 East St.
Bellville, OH 44813
419-886-3721

Shiloh Outpost

35 N. Walnut St.
Shiloh, OH 44878
419-896-2221

COUNTY HIGHWAY SYSTEM

The Richland County Highway System consists of 347 miles of County roads plus 358 bridges on both County and Township highways. Our County highway system is approximately equivalent to a road stretching from Mansfield, Ohio to Chicago, Illinois. The County Engineer oversees the Highway Department and is responsible for the construction, maintenance, and repair of the 347 miles of roadway and the 358 bridges. This includes culverts, guardrails, signage, roadside drainage, pavement markings, mowing, and snow and ice control. We try to keep on top of the repairs, maintenance, snow removal, etc., but if a motorist sees something unusual on a highway or bridge we would appreciate a call to check it out. You may call 419-774-5594 or 419-774-5591 between 7 AM and 3:30 PM weekdays (summer hours 6:30 AM and 5 PM, Monday thru Thursday) or visit our website, www.rcengineer.com to report an item of concern.

ROADS

The County keeps a record of pavement condition, called a Pavement Condition Rating (PCR), for all 347 miles of County Highway. These ratings are based on certain factors, including: surface type, cracking, rutting, base failure, potholes, pavement marking condition, etc. The PCR's were updated for maintenance and resurfacing work that occurred in 2022, as well as a reduction factor for deterioration that occurs over a year's time. The PCR rating is used to monitor pavement conditions, determine future maintenance, and determine the type of maintenance/resurfacing work that will be needed.

2022 PCR SUMMARY		2022 HIGHWAY MILEAGE IN RICHLAND COUNTY	
Poor Condition	58.6 miles	State Highways	262.3 miles
Fair Condition	79.2 miles	County Highways	347.6 miles
Good	72.7 miles	Township Highways	577.3 miles
Excellent	137.1 miles	Cities & Villages	502.4 miles
Total	347.6 miles	Total Mileage	1,689.6 Miles



BRIDGES

The County Engineer's Office is responsible for 358 bridges on County and Township Roads, as well as several Village and City Streets. In 2022, bridges were inspected and assigned a condition rating. As the result of a law change in 2021, bridges are inspected every 12 or 24 months, depending on their condition. Bridges in fair or poor condition are inspected every 12 months, while bridges in good condition are inspected every 24 months.

Each bridge is rated as to its ability to carry trucks and automobiles safely across the structure. Signs are posted in advance of the bridge indicating the maximum vehicle weights for structures with reduced weight limits. Truck drivers and operators of heavy farm machinery should pay particular attention to the advance weight limit signs. It could prevent serious damage to the bridge or the vehicle, or both. Also, the Richland County Engineer issues oversize or overweight vehicle permits for those vehicles that are in excess of the legal size or weight requirements. When a permit is issued, operators will be advised of the proper route around these posted bridges. A map of all the bridges under County jurisdiction is available on our website www.rcengineer.com under the Tax Map/GIS tab.

BRIDGE STATUS BASED ON 2022 DATA

<u>CONDITION</u>	<u>NO. OF BRIDGES</u>	<u>PERCENT(%)</u>
New, Good	239	66.8%
Fair	83	23.2%
Poor	36	10.0%
TOTAL	358	100.0%
Large Bridges (>20' Span)	185	51.7%
Small Bridges (10' to 20' Span)	173	48.3%
Load Restricted Bridges	73	20.4%
Functionally/Structurally Deficient (Narrow, weight restricted, and/or Poor Condition)	91	25.4%

Bridge load restrictions may include a sign for Emergency Vehicles (EV's) because these vehicles tend to have a higher axle load than the typical 2 or 3 axle trucks. You will notice the signs below on approximately 73 bridges on County and Township Roads throughout the County. Trucks and emergency vehicles should pay close attention to these signs, as they are there for the protection of the bridges and the traveling public.



2022 BRIDGE PROJECTS

<u>ROAD</u>	<u>TOWNSHIP</u>	<u>PROJECT</u>	<u>COST</u>
Plymouth-Springmill	Jackson	Precast Concrete Box Culvert	\$284,099.29
Mill Run	Troy	Aluminum Box Culvert	\$202,050.36
Possum Run	Washington	Precast Concrete Box Culvert	\$194,495.29
Applegate	Monroe	Precast Concrete Box Culvert	\$246,322.29

ADDITIONAL 2022 PROJECTS

- Asphalt Resurfacing (CCAP) – 12.9 miles (Franklin Church Rd, Olivesburg-Fitchville Rd, and Adario West Rd) - \$869,657.71
- Asphalt Paving w/repairs – 3.2 miles (Orchard Park Rd, Trimble Rd) \$606,806.30
- Chip and Seal – 9.54 miles (Free Rd, Plymouth-Springmill Rd) - \$255,645.32
- Road Name Sign Upgrade – Install new road name signs @ various intersections - \$25,074.46
- Cook/Mansfield-Lucas Intersection Safety Improvement – install roundabout at intersection - \$1,219,688.93

2022 PROJECTS



Plymouth-Springmill Rd – Concrete Box
Culvert



Mill Run Rd – Aluminum Box Culvert



Possum Run Rd - Concrete Box Culvert



Applegate Rd - Concrete Box Culvert



Orchard Park – Asphalt Resurfacing



Free Rd – Chip & Seal Resurfacing

COOK/MANSFIELD-LUCAS ROUNDABOUT

2022 saw the construction of the first roundabout on the Richland County Highway System (County or Township roads). There is one other public roundabout in the County at the intersection of Middle-Bellville Rd and Straub Rd, which is under the jurisdiction of the City of Mansfield. Planning began back in 2017 after the intersection was shown to be the highest crash priority for County Roads (#1 on County system, #6 on County-wide list). This priority was based on the number and severity of crashes. From 2015 to 2018, there were an average of 5 crashes per year, with more than half of those accidents involving injuries. The decision to pursue the installation of the roundabout was not taken lightly. The County did further studies, held a public meeting, and addressed the public's comments, questions, and concerns. After completing those steps, the additional

efficiency and safety of a roundabout put this option above the options to install a traffic signal or leave the intersection “as-is.” As a result of these studies, the project was awarded a 90% Safety Grant from the Ohio Department of Transportation to cover the construction costs. Additional grant money administered by the Richland County Regional Planning Commission covered 90% of the costs for design, right-of-way acquisition, and construction inspection. Final costs are detailed below:

<u>Phase</u>	<u>Total</u>	<u>Federal/State Grant Amount</u>	<u>Richland Co. Amount</u>
Design and Right-of-Way:	\$356,744.88	\$317,770.39	\$38,974.49
Construction:	\$1,219,688.93	\$1,097,720.03	\$121,968.90
Construction Inspection	\$135,673.54	\$122,106.19	\$13,567.35
Total	\$1,712,107.35	\$1,537,596.61	\$174,510.74



Cook/Mansfield-Lucas Roundabout (Continued):

There are many people who made this project a success, and I would like to thank them all! Those that played a major part in the project are:

The Richland County Regional Planning Commission (studies, grant funding)

The Ohio Department of Transportation (grant funding, project oversight)

EMH&T (design consultant)

K.E. McCartney and Associates (construction inspection and oversight)

Shelly and Sands, Inc. (construction contractor – special thanks for keeping the project moving and completing it on time!)

The Board of Richland County Commissioners (project support)

The entire staff at the County Engineer's Office and County Highway Department (project support)

To the residents and traveling public of Richland County, I would like to give a special thank you! I realize the major inconvenience that is experienced when roads are shut down for construction, not to mention an entire busy intersection. THANK YOU for your patience and understanding during the summer of 2022!

SAFETY

In addition to performing safety improvement projects, the County Engineer's Office and County Highway Department work hard to provide a safe and efficient County Highway System. This includes performing roadway maintenance, such as berming, patching, and crack sealing. Other items include installing and upgrading guardrails, pavement markings, and regulatory and advisory traffic signs. We all play a part in the safety of our roadway network, and the newly enacted distracted driving law will hopefully encourage drivers to pay attention to the roadway while behind the wheel. The lives of those WORKING ON or TRAVELING ON our roadways DEPEND ON IT!



RADAR SPEED FEEDBACK SIGN

In late 2020, the County Engineer's Office, in conjunction with the Richland County Sheriff's Office, purchased two Radar Speed Feedback Signs (pictured). These signs are deployed in different parts of the County to remind drivers of the speed limit on certain roadways. They are typically located on sections of roadway where excessive speed is causing a safety concern or where the statutory speed limit (55 mph) on County and Township roads has been lowered and journalized with the Ohio Dept. of Transportation. Speed is a major contributor to accidents on Ohio's roadways and it is important for drivers to obey all traffic laws and be observant of traffic advisory signs (curves, intersection ahead, stop ahead, etc.).

ANIMAL-DRAWN VEHICLE MAINTENANCE FUND

According to Ohio Revised Code Section 5501.53, Counties are able to receive donations from groups or individuals for maintenance of roadways in which animal-drawn vehicles travel. The Richland County Engineer received donations for the following amounts in 2022:

2021 Carryover	\$ 12,834.87
Fredericktown Buggy Fund (Keim)	\$ 2,735.00
Fredericktown Buggy Fund	\$ 2,300.00
Road Maintenance Fund of Geauga (Weaver)	\$ 1,806.00
Ohio Road Maintenance Fund (Miller)	\$ 7,395.39
Mennonite Steering Committee (Martin)	<u>\$ 10,000.00</u>
2022 TOTAL CONTRIBUTIONS	\$ 24,236.39
2022 Expenditures	\$ 0.00
2023 BEGINNING BALANCE	\$ 37,071.26

2022 REVENUES & EXPENDITURES

REVENUES:

Motor Vehicle License and Registrations	\$ 2,845,268.40
Gasoline Tax	\$ 3,700,502.54
Permissive License Fee (\$10 Additional)	\$ 1,036,031.16
Federal/State Grants (Funds administered by Ohio Dept. of Transportation)	\$ 1,384,476.45
State Grants (Funds administered by Ohio Public Works Commission)	\$ 655,526.61
Reimbursements (Grant funds paid to the Engineer's Office)	\$ 54,768.40
Misc. Revenue (Interest, Traffic Fines, scrap, old equip., etc.)	\$ 136,902.21
Animal-Drawn Vehicle Maintenance Fund	\$ 24,236.39
Carryover from 2021	<u>\$ 3,735,246.70</u>
TOTAL AVAILABLE REVENUE	\$13,572,958.86

EXPENDITURES:

Salaries	\$ 2,267,129.91
Benefits (Insurance, Worker's Comp, PERS, Etc.)	\$ 885,104.63
Construction/Highway Equipment (Purchase & Rentals)	\$ 313,733.13
Fuel and Oil	\$ 337,696.48
Road Salt	\$ 298,419.53
Engineering Services, Studies	\$ 305,567.98

EXPENDITURES (CONTINUED):

Operating Expenses (vehicle maintenance/repair, utilities, tools, safety supplies, IT services, etc.)	\$ 624,728.35
Capital Expenses (Construction contracts, road and bridge materials, asphalt, concrete, stone, etc.)	\$ 2,397,180.90
Loan / Bond Payments	\$ 62,108.26
Federal/State Grants for Construction of roads and bridges (Administered by ODOT)	\$ 1,384,476.45
State Grants for Construction of roads and bridges (Administered by OPWC)	<u>\$ 655,526.61</u>
TOTAL EXPENDITURES	\$ 9,531,672.23

PROJECTED CARRYOVER TO 2023	\$ 4,041,286.63
------------------------------------	------------------------

PROPOSED 2023 PROJECTS

Below is a list of projects that we plan to begin and/or complete this coming construction season.

<u>ROAD</u>	<u>TOWNSHIP</u>	<u>SECTION</u>	<u>WORK TO BE DONE</u>
Lucas-Perrysville	Monroe	E of Trumpower Rd	Bridge Replacement
Ganges-Five Points	Franklin	N of Chesrown Rd.	Bridge Replacement
Smiley Avenue	City of Shelby	E of N. Gamble St.	Bridge Replacement
Crider	Mifflin	W of St. Rt. 603	Bridge Replacement
Tucker	Monroe	S of Pleasant Valley Rd.	Bridge Replacement
Anderson	Washington	S of Kochheiser Rd.	Bridge Replacement
Olivesburg-Fitchville	Butler	N of Lattimer Rd.	Bridge Replacement
Faulk	Weller	N of Charles Rd.	Bridge Replacement
Linn	Franklin	W of Ernsberger Rd.	Bridge Replacement
Noble	Butler	E of St. Rt. 13	Road Rebuild

Additional Road Projects for 2023

Asphalt Resurfacing (Millsboro West Rd and Cook Rd West) – 3.48 miles

CCAP Resurfacing (Baseline Rd, Clear Creek Rd, Olivesburg-Fitchville Rd, Hummel Rd, Ernsberger Rd, Mt. Zion Rd) – 16.74 miles

Chip and Seal (Shiloh-Norwalk, Stafford, Mansfield-Lucas, Adario West/East, Possum Run, Ganges-Five Points, Amoy East, Darlington South, Butler-Newville, Hazel Brush, Settlement East) – 31.59 miles

Pavement Markings – 20 +/- miles

ADAM GOVE, P.E., P.S.
RICHLAND COUNTY ENGINEER

EMPLOYEES OF THE RICHLAND COUNTY ENGINEER

I want to personally thank all employees that are or have been a part of our team! All the people listed below play a vital role in providing the citizens of Richland County the services they deserve. I am proud of all their accomplishments in 2022 and look forward to a very productive 2023. I also need to give a VERY BIG THANK YOU to the County Highway Department! The summer construction/maintenance schedule got off to a bit of a slow start after Richland County experienced a tornado in early June. The southeast part of the County was a pretty big mess. Those at the Highway Department worked extremely hard to first; open a path for residents, emergency services, and utility providers in the area, and second; clear debris from those roadways affected by the storm. Thank you for all your hard work and effort! And thank you to the public for recognizing our workforce and giving them ROOM to WORK on the roadways!

ENGINEERING OFFICE

**** Denotes New Hire**

Kevin Payne, P.E., P.S.

C. Delafon Luna, P.E., P.S.

Jacqueline Francis

Chad Coward, P.E., P.S.

Matthew Christian

Wilma Marquis

TAX MAP OFFICE

Elaine Riedel, Supervisor

Jennifer Thompson

Greg Davis

HIGHWAY DEPARTMENT

Jon Dickinson, Highway Superintendent

Kim Gosser, Assistant Superintendent/Bridge Foreman

Chad Swank, Mansfield Foreman

Andy Orewiler, Maintenance Foreman

Jacob Eyerly, Shiloh Foreman

Robert Swank, Jr., Bellville Foreman

Dylan Balcarcel

Evan Benedict

Garry Bisel

Jason Bright

Andrew Burrer

Brian Cook

Matthew Cook

Adam Dessecker

Christopher Fraizer

Logan Fraizer**(Dec. 2022)

Gail Fulk

Hank Fultz

Lyle Hieber

Heath Humphrey

Richard Hursh

Jason Kemp

Jakob Kiger

Robert Knipp

Brett Marquis

Charles Miller

Darren Mull

Drew Music**(Nov. 2022)

Trent Neeley

Leo Ringler

Alan Sheets

Michael Stevens

Donald Traxler

Mark Wright

2022 SEASONAL EMPLOYEES

Levi Kibler
Calvin Smith
Ethan Vogt

Zander McGrew
Randall Swank
Cayden Wright

RECENT RETIREMENTS

The Richland County Engineer's Office would like to thank James King and David Seaman for their time with the County. Best wishes for a happy, healthy retirement!

Be sure to check out the County Highway Map and the County Engineer's website @ www.rcengineer.com



This report is prepared by the Richland County Engineer as directed by Section 5543.02 of the Ohio Revised Code.