



2020 ANNUAL REPORT

Coshocton County Engineer
Frederick T. Wachtel, P.E., P.S.

CONDITION OF ROADS, BRIDGES, AND CULVERTS

INSIDE THIS ISSUE

Personnel Matters	2
Fleet Management	2
Access Management	3
Coshocton County Regional Planning	3
Coshocton County Utilities Department	3
Major Road Improvements	4
Drainage Improvements & Culvert Installations	4
Safety Issues	4
Other Things We Do	4
Current Condition Rating of Our 350 Miles of Road	5
Amish Steering Committee	5
Winter Snow Patrol	5
Community Emergencies	5
Bridge Construction	6
Pending Road Projects	7
Pending Bridge Projects	7
Tax Map/GIS	8
Floodplain Administration	8

From Fred's Desk...

We are filing this report to highlight the Coshocton County Engineer's Office 2020 activities and to lay out our tentative plans for the 2021.

Like everyone, the coronavirus pandemic had a tremendous impact on our operation. But, thanks to all of the employees of the County Engineer's Office we were able to continue provide service to our constituents in a timely and effective manner.

I hope you will find this report interesting and informative. As always, if you have questions with regard to the various activities of the County Engineer's Office, please feel free to contact us at 740-622-2135 or via email at fredwachtel@coshoctoncounty.net. For current information with regard to the County Engineer's Office, please visit our website at www.coshoctoncounty.net.

This past November I was elected to my eighth term as Coshocton County Engineer. I consider it an honor to continue to serve in the county where I grew up.



CONTACT US:

23194 CR 621, Coshocton, Ohio 43812
Phone: 740-622-2135 * Fax: 740-623-6512
www.coshoctoncounty.net/agency/engineer

PERSONNEL MATTERS

We welcomed one new employee to the County Engineer's Office in 2020. Joshua Kempf joined us in August as Assistant County Engineer.

He is a civil engineering graduate of the University of Mount Union and will be finishing his surveying educational classwork in 2021.

Meet Josh in His Own Words



I grew up in Coshocton County, graduated from River View High School in 2014, and then attended the University of Mount Union where I graduated with a Bachelor's degree in Civil Engineering and a Minor in Mathematics in 2018. I am currently continuing my education at the University of Akron to complete a Certificate in Surveying for Civil Engineers. I was previously employed at Hull, LLC. as an Engineer I in the Municipal Engineering department. I accepted the position as Assistant County Engineer in Coshocton County because I enjoy having a positive impact on my home county. I have 2 children, Douglas and Sophia, with my wife Jordyn and together we enjoy hiking the various nature trails throughout eastern and southern Ohio and caring for the animals on our small farm. I look forward to many years of service to my community.

Todd Coss, P.E., P.S. finished his tenure with us at the end of 2020. He was elected Noble County Engineer and took office in January, 2021. Although Todd's time with us was short, he brought a lot of ideas and experience to our office. In addition, he provided valuable training to Josh while the two overlapped here. We wish Todd the best in his new position and are sure the citizens of Noble County will be well served.

Ten employees completed 2020 with perfect attendance: Brent Everhart completed 13 years; Mark Westhoefer six years; Duane McElhaney and Kelly Sims three years; Rick Brenly and Cody Westhoefer two years; and Darlene Art, Brian Albertson, Jason Hamlett, and Benny Patterson one year.

FLEET MANAGEMENT

An important part of our operation is having the correct and serviceable equipment to do the work we do. In our ongoing effort to accomplish this we made the following significant purchases in 2020:

- 2 Western Star dump trucks, outfitted - \$340,000
- Outfitted a third Western Star cab and chassis - \$70,000
- Used Ford mechanic service truck - \$34,000
- Used Athey travel loader, including shipping from Colorado - \$11,000
- Used Cat R80 forklift - \$2500
- Progressive thumb for our Cat 320 excavator - \$9000
- Vehicle diagnostic software and Toughbook computer for our mechanics - \$8000
- DF Engine Cleaning System to clean the diesel emissions components - \$6000



We refurbished three of our older dump trucks, either with new beds or replacing the old bed with beds salvaged from trucks being taken out of service.

We sold 4 GMC dump trucks that had exceeded their useful life with us. They ranged in model year from 2003 to 2009 and brought a total of \$14,754. We also sold our 2001 MACK CH613 for \$8,250.

ACCESS MANAGEMENT

A total of 118 access permit applications were received. These permits consisted of 20 Minimum Volume (MinV) driveways, 5 Temporary MinV driveways, 81 Very Low Volume (VLV) driveways, 1 Medium Volume (MV) driveways, and 2 Large Volume (LV) driveways. These amounted to \$3,980.00 in fees.

A total of 136 property splits were received from and reviewed for the Coshocton County Regional Planning Commission. All property splits for 2020 were approved, although a few needed to be re-designed to comply with our regulations.

We received a total of 55 Right-of-Way permits in 2020, which generated \$360.00 in fees. Frontier Communications, AEP, AT&T, Columbia Gas, CenturyLink, Frontier Communications, Holmes-Wayne Electric Coop, Spectrum, TC Underground and National Gas and Oil Energy Coop are on prepaid permit fee deposit programs. Horizon Telecom had deposits with us for permits which were never used as the company never completed any work on the permits they had obtained from us. We still have the \$60.00 deposit they sent in to start a prepaid permit fee deposit program on 11/1/2012.

Logging operations continue to be prevalent. Loggers and haulers were educated on the logging policies of this county and given a copy of our county policies. With the absence of frost laws for the county and township roadways, Logging operations continue to damage the county and township roads. Also, several driveway issues were addressed by this office because of bad installations and/or run-off problems. Contact was made with the appropriate land owner and corrective action was taken to remedy the situation.

O.U.P.S. tickets were reviewed on a daily basis. Contact was established with the person or business that requested the O.U.P.S. Ticket. If required, a site visit was made and /or inspections were conducted at the job site. The review of the O.U.P.S. tickets resulted in corrective work in some locations, and permit applications in others. Not all O.U.P.S. tickets required action from this office.

COSHOCTON COUNTY REGIONAL PLANNING COMMISSION

We completed our 3rd full year as the Director / Administrator for the Regional Planning Commission. We answer questions from property owners, realtors, developers, and surveyors with regard to splitting property. We also coordinate all of the reviewing agencies reports and issue approvals or denials for the proposed splits or subdivisions. All fees are processed through our office and any necessary field reviews or inspections are performed by County Engineer's Office personnel. In 2020 we processed 137 applications that created 349 parcels, the majority being in the northeast portion of the county.

COSHOCTON COUNTY UTILITIES DEPARTMENT

The discussion with regard to transferring the entire Pearl Valley / Fresno Sanitary Sewer System from the County to the Village of West Lafayette has continued. Although the transaction was not completed in 2020 we hope to transfer all the assets to the Village in 2021. A number of concerns were addressed in 2020, including: A stream bank stabilization project to protect a section of force main sewer line exposed in White Eyes Creek; the addition of more clean-outs between Pearl and Fresno; the construction of a new section of force main between Pearl and Fresno to eliminate the 30 feet elevation head on the original alignment over Mizer's Hill; and the installation of new pressure relief valves in the Pearl Valley pump station.

We have also been involved with the construction project extending City of Coshocton water to the Village of West Lafayette. The pipeline work was completed by Bova Excavating in the fall of 2020 and City of Coshocton water is scheduled to supply the citizens of West Lafayette starting February 1, 2021.

MAJOR ROAD IMPROVEMENTS

Our 2020 resurfacing program consisted of a combination of MVG funding, Ohio Public Works Commission (OPWC) grants, and a Federal Highway Administration County Surface Transportation Program grant.

We administered all aspects of the OPWC Round 34 resurfacing projects. County Engineer's personnel administered the contracts and provided the construction inspection. Entities that were participants in these projects included the Coshocton County Engineer; the City of Coshocton; the Village of West Lafayette; the Townships of Millcreek, Virginia, White Eyes, and Lafayette. By collaborating and sharing services with various other governmental entities we are able to provide a better, more economical project for all involved.

County roads resurfaced in 2019 were:

- CR 24, asphalt, CR 207 to CR 28, 2.86 miles, Bethlehem & Keene Townships, \$336,941
- CR 10, asphalt, CR 171 to TR 205, 1.44 miles, White Eyes Township, \$163,569
- CR 18, motor pave, SR 60 to CR 3, 1.98 miles, Washington & Bedford Townships, \$143,022
- CR 10, single seal, SR 651 to TR 205, 5.96 miles, Crawford, White Eyes Township, \$101,975
- CR 3, single seal, SR 541 to CR 70, 2.31 miles, Bedford, Pike Township, \$35,019
- CR 54, single seal, SR 60 to SR 541, 3.89 miles, Bedford, Washington Township, \$57,397
- CR 275, single seal, SR 83 to CR 271, 0.67 miles, Franklin Township, \$15,142
- CR 9, asphalt, SR 751 to County Line, 4.27 miles, Oxford Township, \$1,128,021. This project was funded 80% through the ODOT County Surface Transportation Program (CSTP) and 20% through local funds;
- CR 12, asphalt, SR 643 to County Line, 0.16 miles, Crawford Township, \$23,206. This work was done in conjunction with a 300 feet long buggy lane project constructed by Force Account.

DRAINAGE IMPROVEMENTS & CULVERT REPLACEMENTS

County crews completed 41 different installations on our County road system in 2020 at a total cost of \$362,506. These installations ranged in size from 12" up to 60" diameter plastic pipe and were in 12 different townships. The top four townships in number of installations were: Washington – 9; Bedford – 7; Bethlehem – 7; and, White Eyes – 6. Most of the installations were done in preparation for paving work done later in the year.

County crews have continued cleaning culverts and road-side ditches to maintain the integrity of our drainage systems and protect the travelling public.

SAFETY ISSUES

The County Engineer's Office had no reportable accidents for another year. Our last lost time accident was June 22, 2017. As of the end of 2020, we have gone 1308 days without a lost time accident. Truly a remarkable accomplishment for our employees who work in all kinds of weather and conditions.

OTHER THINGS WE DO

- ♦ Fred served as the Second Vice President of the County Engineers Association of Ohio.
- ♦ Fred is Chairman of the Ohio Public Works Commission District 14 Integrating Committee.
- ♦ Coshocton County created a Transportation Improvement District in 2019 with Fred serving as the Chair.
- ♦ The Coshocton County Engineer's Office is a member of the Ohio Mid-East Government Association (OMEGA) Transportation Advisory Committee (TAC). This group is the Rural Transportation Planning Organization that serves our county.
- ♦ Fred serves as the CEO representative on the Ohio Geographically Referenced Information Program (OGRIP).
- ♦ Fred was elected to his eighth term as Coshocton County Engineer in November.

CURRENT CONDITION RATINGS OF OUR 350 MILES OF ROAD:

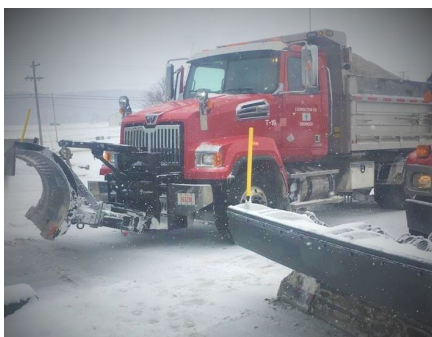
	Excellent	Good	Fair	Poor	Critical
'20	41	232	64	13	0
'19	30	231	75	14	0
'18	23	228	86	13	0
'17	36	216	82	16	0
'16	47	202	92	10	0
'15	37	185	106	24	0
'14	31	206	89	24	0
'13	39	215	80	18	0
'12	58	175	93	26	0
'11	56	172	88	36	0
'10	51	167	99	35	0
'09	87	121	135	9	0

AMISH STEERING COMMITTEE

The following table shows the amount contributed and the amount of expenditures the County Engineer has spent on contract repairs on CR 10 and CR 12 in Crawford and Mill Creek Townships:

We continue to meet regularly with the Northeast Coshocton County Infrastructure Connection (NECCIC) to discuss the state of businesses and infrastructure in the northeastern part of our county. The committee consists of a combination of business owners, both Amish and "English," and local government officials. Needs, wants, and how to pay for improvements, are all on the table.

YEAR	CONTRIBUTION	CONTRACT EXPENDITURE
2011	\$8,541	\$32,000
2012	\$8,246	\$22,936
2013	\$9,145	\$21,214
2014	\$10,008	\$29,154
2015	\$9,586	\$791,195
2016	\$23,204	\$628,724
2017	\$23,204	\$242,188
2018	\$26,454	\$0
2019	\$28,185	\$104,821
2020	\$27,677	\$186,775



WINTER 2019-2020 SNOW PATROL

The winter of 2019-2020 was a fairly mild winter. Our crews responded to 14 snow/ice events; drove 10,429 miles spreading 598 tons of salt & 143 tons of cinder/salt mix. Total time invested was 408 regular hours and 305 overtime hours treating our roads for a cost of \$115,025.

COMMUNITY EMERGENCIES

The year 2020 was uneventful as far as weather related emergencies were concerned. I guess dealing with a public health emergency pandemic is enough of an emergency for one year.

BRIDGE CONSTRUCTION

In 2020, we were able to replace five bridges utilizing grants and local funds. These projects were: Keene Twp. County Road 12, Bridge 2 – a prestressed concrete box beam bridge at a cost of \$301,199 which was funded through the Local Bridge Replacement Program (LBR) and administered by ODOT. The contractor was Bud's Inc.; Newcastle Twp. Road 92, Bridge 1 – a four-sided concrete box at a cost of \$82,643 force account project; Monroe Twp. Road 330, Bridge 1 – a prestressed concrete box beam bridge at a cost of \$183,303. The County Engineer's Office collaborated with three contractors to build this bridge; Monroe Twp. Road 330, Bridge 2 – a four-sided concrete box at a cost of \$85,240 completed by force account; Tiverton Twp. Road 351, Bridge 1 – a four-sided concrete box at a cost of \$68,273, also a force account project.



In addition, County forces made major repairs to two other bridges: County Road 75 Bridge 3, Virginia Twp. – abutment repair at a cost of \$12,067; Washington Twp. Road 437 Bridge 2 – replaced abutments at a cost of \$75,621, partnering with two local contractors.

Based upon ODOT's sufficiency ratings, the breakdown at year's end is as follows:

	'20	'19	'18	'17	'16	'15	'14	'13	'12	'11	'10	'09	'08
Bridges	269	270	270	270	267	271	273	276	277	284	288	288	289
Excellent	106	102	102	106	125	124	123	108	105	103	98	95	91
Good	135	132	140	137	118	122	116	95	90	91	91	91	93
Fair	17	19	19	17	20	18	24	59	49	52	65	69	73
Poor	9	15	8	9	4	7	10	14	29	38	34	33	32
Critical	2	2	1	1	0	0	0	0	0	0	0	0	0
% Posted	7.4	10.0	9.3	10.0	11.2	14.0	13.5	16.3	17.0	20.1	22.2	21.1	22.4

The General Appraisal Summary of our bridges is as follows:

	GA9	GA8	GA7	GA6	GA5	GA4	GA3	GA2
'20	7	23	77	94	45	21	2	0
'19	7	30	69	88	47	24	4	1
'18	11	30	66	89	49	20	5	0
'17	13	30	64	91	46	19	7	0
'16	9	31	69	82	48	23	5	0
'15	9	27	94	56	57	22	7	0
'14	7	25	95	62	56	20	8	0
'13	3	20	93	68	57	26	9	0
'12	2	17	96	68	54	27	13	0
'11	0	14	95	70	60	34	11	0
'10	0	11	100	65	64	37	11	0
'09	0	13	94	69	67	39	6	0
'08	0	17	87	70	75	34	6	0

PENDING ROAD PROJECTS

Our 2021 resurfacing program will be funded through a combination of County Engineer's Office funds and a pending OPWC grant. No general fund monies are allocated to the County Engineer's Office. The planned projects, providing funding is available, include:

- CR 1A, asphalt, US 36 to KIA Bridge, 0.47 miles, Tuscarawas Twp., \$94,568
- Airport Road, asphalt, US 36 to CR 621, 0.19 miles, Tuscarawas Twp., \$53,809
- CR 495, asphalt, US 36 to Corp Limit, 0.50 miles, Jackson Twp., \$61,436
- CR 271, asphalt, Corp Limit to Bridge, 1.38 miles, Tuscarawas and Franklin Twps., \$206,486.60
- CR 3, motorpave, CR 70 to CR 383, 1.78 miles, Pike Twp., \$145,362
- CR 19, motorpave, TR 312 to SR 60, 3.57 miles, Clark Twp., \$272,854
- Chip seal surface treatment
 - ◊ CR 17, SR 60 to SR 541, 4.43 miles, Bedford and Jackson Twps., \$92,175
 - ◊ CR 18, CR 367 to SR 79, 1.39 miles, Perry Twp., \$31,750
 - ◊ CR 20, SR 715 to SR 206, 6.07 miles, Newcastle and Tiverton Twps., \$131,890
 - ◊ CR 27, US 36 to US 36, 3.71 miles, Bethlehem Twp., \$82,720
 - ◊ CR 33, CR 319 to CR 49, 1.01 miles, Monroe and Clark Twps., \$23,290
 - ◊ CR 115, US 36 to US 36, 1.09 miles, Tuscarawas and Lafayette Twps., \$24,030
 - ◊ CR 116 CR 170 to Dead End, 0.51 miles, Lafayette Twp., \$12,050
 - ◊ CR 143, US 36 to Dead End, 0.60 miles, Oxford Twp., \$11,185
 - ◊ CR 274, Muskingum County Line to CR 429, 1.71 miles, Franklin Twp., \$38,490
 - ◊ CR 275, CR 271 to SR 83, 0.72 miles, Franklin Twp., \$19,510
 - ◊ CR 405, two sections, 0.99 miles, Keene Twp., \$29,010
 - ◊ CR 497, CR 274 to Muskingum County Line, 0.39 miles, \$9,430
- Various County Roads, drag spot pave, in various townships.

PENDING BRIDGE PROJECTS

Bridge projects planned for construction in 2021, provided funds are available, include:

- Township Road 383, Bridge 2, (MVG-Repair) Perry Township (abutment)
- Township Road 232, Bridge 1, (OPWC 19) in Crawford Township (box culvert)
- Township Road 236, Bridge 3, (OPWC 19) in Crawford Township (box culvert)
- Township Road 21, Bridge 6, (OPWC 20) in Millcreek Township (box culvert)
- Township Road 242, Bridge 3, (OPWC 20) in Adams Township (box culvert)
- County Road 6, Bridge 10, (OPWC 20) in Virginia Township (box beam)
- County Road 99, Bridge 2, (MVG-Repair) in Newcastle Township (footers)
- Township Road 176, Bridge 5, (OPWC 21) in Adams Township (box beam)
- Township Road 221, Bridge 1, (OPWC 21) in Millcreek Township (box culvert)
- Township Road 173, Bridge 1, (OPWC 21) White Eyes Township (box beam)

Realistically, not all of this work will be completed in 2021, however, these are the projects that we have currently on our list.

Additionally, our crews will be performing various maintenance activities on our inventory of 269 bridges. This includes re-decking, channel work, signage, waterproofing, and any emergency work as needed. We will also be looking for more potential bridge to culvert conversions.

We were granted LBR funding to replace the CR 365 bridge over the Mohican River in Cavallo (Tiverton Twp.). This is scheduled for construction in Fiscal Year 2025. We are beginning the process to meet all the milestones associated with a Federally Funded bridge replacement project.



GIS / TAX MAP

Our GIS / Tax Map Office is staffed by two people, Jona Lee Mikesell, who handles our survey and deed reviews and Jessica Goodsell, who handles our mapping and GIS system. I provide professional support and guidance to help these two with the many challenges they face dealing with all aspects of land records in our county.

Deed and survey review for the last four years were:

Year	Documents of Transfer	Surveys	Platted Subdivisions	Description Checks
2020	1387	197	12	68
2019	1581	219	8	89
2018	1259	168	10	128
2017	1313	160	5	56

GIS parcel maintenance activities were:

Year	Parcels Transferred	Parcels Split	Parcels Combined	Parcels Resurveyed	CAUV Calculations
2020	2359	139	81	55	286
2019	2084	179	102	96	338
2018	1964	102	53	55	247

We assigned 105 new addresses in 2020 compared to 93 in 2019.

We are continuously updating and upgrading many datasets that manage in the spatial world when new or data becomes available. We have updated our County GIS Website to include the new aerial imagery and we have included a link to view the recorded subdivision plats on line. Jessica has been working to create a website to provide real-time road closure updates due to flooding behind Mohawk Dam and Wills Creek Dam.

We continue to provide GIS support for many government offices in our county.

FLOODPLAIN ADMINISTRATION

Floodplain permits issued in 2020 included seven blanket utility permits and five project specific permits.

We completed a virtual Community Assistance Contact review with representatives of Ohio Department of Natural Resources Division of Water Resources. We have been working to resolve some of the issues they raised.

We continue to answer inquiries from property owners, and potential property owners, with regard to floodplain development conditions and limitations.

WE'RE ON THE WEB!