



Jeff Maiden, P.E., P.S.
Athens County Engineer

The mission of the Athens County Engineer is to serve the citizens of Athens County by building and maintaining a safe and modern county highway system; to respond promptly to reasonable road complaints; to process land surveys and property records accurately; and to be good stewards of taxpayer dollars by developing cost effective solutions for road and bridge maintenance problems.

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Athens County Engineer's 2021 Annual Report



2021 WAS ANOTHER GREAT YEAR:

The Athens County Engineer's Office continued to move forward despite the continuing disruptions caused by the Coronavirus Pandemic. Infrastructure improvements included:

- Manufactured 9,900 tons of cold mix asphalt and **saved taxpayers \$745,000!**
- Designed and built two new bridge and/or concrete box culvert projects
- Placed 8,834 tons of asphalt for leveling chip seal & asphalt roads
- Placed 835 tons of asphalt for pothole patching
- Paved 8.8 miles of hot mix asphalt roads
- Paved 6.6 miles of cold mix asphalt roads
- Resurfaced 15.6 miles of chip and seal roads
- Fixed two landslides with drilled shaft walls
- Constructed a watershed repair project on Deep Hollow Road (CR 65)
- Replaced 46 drainage culverts under county roads
- Plowed/treated all county roads on 17 different days during 2021-2022 winter
- Mowed 361 miles of county roads at least three times
- Excavated the berms and ditches on 31 miles of county roads
- Reviewed 321 boundary surveys for compliance with minimum standards
- Reviewed and processed 54 utility permits
- Removed 1265 dead trees along county right-of-way for safety purposes

American Rescue Plan Act (ARPA) of 2021

Signed into law on March 11, 2021 the act provides critical financial assistance to struggling Americans including significant funding to political subdivisions to help alleviate the financial impact caused by the Coronavirus Pandemic during the past two years. The four largest recipients in Athens County were the Athens County Board of Commissioners (\$12,689,004); the City of Athens (\$2,570,172); Athens Township (\$724,039); and the City of Nelsonville (\$537,373). One of the intended uses of funds is to replace lost public sector revenue. Using the guidelines provided by ARPA, the Athens County Engineer's Department lost \$986,391 in gas tax revenue in 2020/2021. The Athens County Engineer's Office is the only government office that manages a vast infrastructure that did not receive financial assistance from the ARPA program. I have requested reimbursement of the \$986,391 in lost gas tax revenue from the \$12,689,004 received by the Board of Commissioners.

It is with gratitude that I thank the people of Athens County and my staff for the opportunity to continue to serve as your Athens County Engineer.

Respectfully,

Jeff Maiden, P.E., P.S.

ASPHALT RESURFACING PROJECTS

The 2021 Athens County Paving Project consisted of a 2.25" thick asphalt overlay of six county roads using hot-mix asphalt. Drainage improvements were made on the sections of roadway that were scheduled to be paved and included ditching, berming, and replacing obsolete culverts. This project was funded with \$400,000 in OPWC- Issue 1 grant funds and \$373,574 in local funds and was constructed by Shelly and Sands Inc., with headquarters in Zanesville, Ohio.

Della Drive and Main Street (in Millfield) received a 1" thick "thinlay" hot-mix asphalt using local funds at a cost of \$99,500. These two projects were paved by McKee Paving of Nelsonville, Ohio.

Project	Road No.	Road Name	Project Limits	Length (miles)	Surface Treatment	Construction Cost
2021 Athens County Paving	CR1	Carbondale Rd	Dowler Ridge Rd to Kimberly Rd	1.90	Hot Mix Asphalt	\$ 773,574.25
	CR14	Factory Rd	SR681 to Baker Rd	2.13		
	CR19	Hebbardsville Rd	Enlow Rd to Radford Rd	1.97		
	CR19B	Alexander Church Rd	US50 to Hebbardsville Rd	0.08		
	CR27	Jacksonville Rd	Wemmer Rd to Sixth St	0.36		
	CR80	Enlow Rd	US50 to Hebbardsville Rd	0.46		
Della Drive Paving	CR52	Della Drive	Athens City Limits to US50	0.77	Thinlay Hot Mix	\$ 49,600.00
Main Street Paving	CR93	Main St	SR13 to SR13	1.07	Thinlay Hot Mix	\$ 49,900.00
Total Hot Mix Asphalt =				8.74	miles	\$ 873,074.25



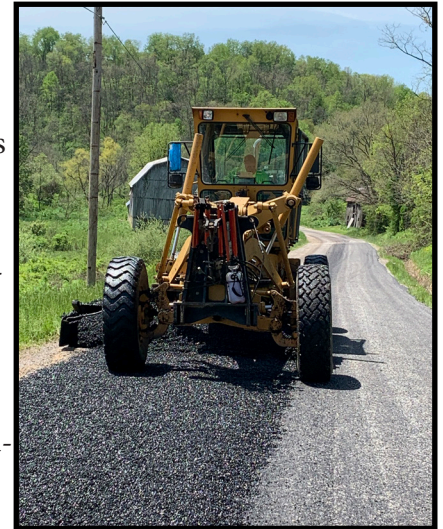
The 2021 Athens County Motor Paving Project consisted of a 2.5" thick asphalt overlay of three county roads using cold-mix asphalt. Drainage improvements were made on these roads prior to being paved. This project was paved by The Shelly Company of Thornville, Ohio and funded with \$583,360 in local funds.

Project	Road No.	Road Name	Project Limits	Length (miles)	Surface Treatment	Construction Cost
ATH-Motor Paving 2021	CR36	Hooper Ridge Rd	SR550 to Fleming Rd	2.12	Motor Paving	\$ 583,359.85
	CR65	Vanderhoof Rd	Brister Rd to US50	2.88		
	CR85	Big Run Rd	SR329 to Washington County Line	1.56		
Total Motor Paving =				6.56	miles	\$ 583,359.85

CHIP AND SEAL, ASPHALT LEVELING, PATCHING

ASPHALT LEVELING

County roads that are scheduled to be paved and/or chip sealed each year are repaired before they are resurfaced. Cold mix asphalt leveling is typically used on existing chip seal surfaced roads and hot mix asphalt leveling is typically used on asphalt roads. Many of our chip and seal roads have swales in the wheel track locations. Some have deteriorated to the point where the surface has reverted back to gravel. We made a focused effort in 2021 to continue with the repair of these deteriorated sections by asphalt leveling with a motor grader and steel wheel roller. County crews applied 7,362 tons of cold mix asphalt on chip and seal surfaces, and 1,472 tons of hot mix asphalt on asphalt roads. To put this into perspective, 8,834 tons of asphalt is the equivalent of 1,105 single axle dump truck loads of asphalt. If the asphalt were placed continuously at 18' wide and 1.5" thick, it would be equal to paving 10 miles of county road. The roads that received asphalt leveling by grader patching in 2021 were the following: CR2, CR3, CR9, CR10, CR12, CR14, CR15, CR21, CR26, CR29, CR34, CR36, CR37, CR38, CR42, CR44, CR48, CR56, CR59A, CR64, CR65, CR75, CR76, CR81, CR85, CR90, CR94, CR98, CR100, CR102.



2021 ASPHALT LEVELING (GRADER PATCHING)				
Labor & Fringes	Materials	Equipment	Subcontract	Total
\$143,775	\$613,906	\$188,292	\$147,814	\$1,093,787
	7,362 tons cold mix		McKee Paving	
	1,472 tons hot mix		CR9, CR27, CR48, CR98	

CHIP AND SEAL

The 2021 chip and seal program consisted of two projects. The first project was locally funded and covered 11.5 miles on four county roads (CR 9, CR 27, CR 44, and CR 59A). For the second project, contractors applied a double chip and seal resurface to 4.2 miles of Big Bailey Run Road. A federal grant for \$151,197 (80% of project cost) was used for this project and The Shelly Company of Thornville, Ohio was the successful contractor.

POTHOLE PATCHING

The Engineer's Department started manufacturing asphalt cold mix in January 2018. This material is used during the cold weather months to patch asphalt and chip and seal pavements. We occasionally use hot mix asphalt for patching potholes on asphalt pavements. Patching potholes is hard work and an important part of the road maintenance work we do.

2021 POTHOLE PATCHING			
Labor & Fringes	Materials	Equipment	Total
\$76,428	\$58,746	\$44,409	\$179,583
2,395 manhours	835 tons cold mix		
	4 tons hot mix		

ATH-Chip Seal 2021	CR9	Salem Rd	SR56 to Vore Ridge Rd	3.18	Chip Seal / Fog Seal	\$ 275,349.97
	CR27	Jacksonville Rd	Millfield Rd to Wemmer Rd	1.62	Chip Seal / Fog Seal	
	CR44	Shade Rd	Old US 33 to Carter Rd	3.10	Chip Seal / Fog Seal	
		Bucks Lake Rd			Chip Seal / Fog Seal	
	CR59A	Ireland Rd	US50 to Washington County Line	3.54	Chip Seal / Fog Seal	
ATH-CR29-0.00 Chip Seal	CR29	Big Bailey Run Rd	SR13 to SR685	4.15	Double Chip Seal	\$ 188,996.70
Total Chip Seal =				15.59 miles		\$ 464,346.67

COLD MIX MANUFACTURING

The Athens County Engineer's manufactured 9,900 tons of cold mix asphalt in 2021 which resulted in the savings of \$745,000 in taxpayer funds! We partner with the Marietta office of Asphalt Materials to manufacture cold mix asphalt at the Engineer's Depot located in Canaanville. We purchase the asphalt emulsion and they provide a portable pug mill to mix the asphalt with limestone. The #67 limestone is purchased from Shelly Materials in Fultonham, Ohio for asphalt base; and the #8 limestone is purchased from Diamond Stone in Albany, Ohio for asphalt top. We sell cold mix along with salt and salty grits to local townships and villages at our direct cost which results in significant savings for them as well.

	DESCRIPTION: 1473 TONS BASE & TOP COAT COLD MIX MADE ON 10/27/2021	Unit Quantity	Materials	Labor	Equipment	Total Cost	Price/Ton
1	Bare Cost to Manufacture- Per Ton	1,473	\$69.74				
2	Asphalt Emulsion- Per Gallon	17,202	\$57,456.00			\$57,456.00	
3	Pug Mill Rental- Mobilization	1			\$4,146.00	\$4,146.00	
4	#8 Limestone- TOP	973	\$26,271.00			\$26,271.00	
5	#67 Limestone- BASE	500	\$12,550.00			\$12,550.00	
6	Oper. 1 + Oper. 2 + Superintendent- 8 hours each	8		\$1,479.00		\$1,479.00	
7	Case Loader/ Caterpillar Loader = 8 hours each	8			\$825.20	\$825.20	
8	Administrative cost/ton to load materials & bill townships	8	\$78.77		\$44.25		\$15.38
Direct Cost Billed to Townships and Villages (Per Ton) =							\$85.00

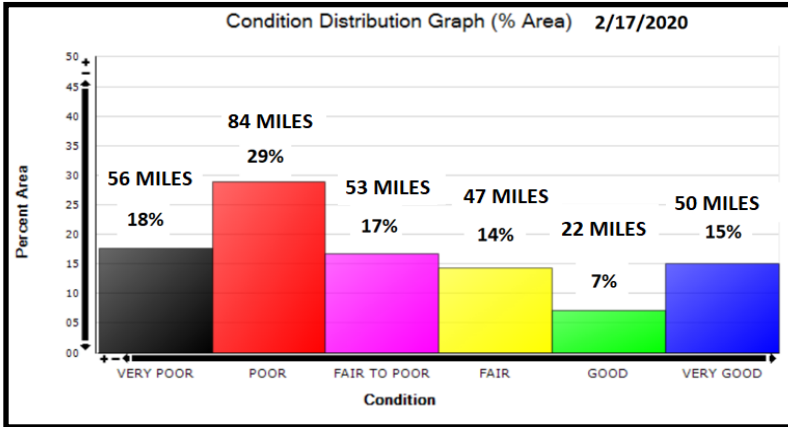
2021 COLD MIX MANUFACTURING SAVINGS	
Price to purchase cold mix in Marietta and haul to Canaanville	\$145/ton
ACEO bare cost to manufacture cold mix	\$69.74/ton
Net savings per ton	\$75.26/ton
Tons manufactured in 2021	9,900 tons
TOTAL SAVINGS	\$ 745,074

2021 Township & Village Material Sales (in tons)			
Township/Village	Cold Mix	Salt	Salty Grits
Alexander	306	16	0
Ames	35	0	11
Athens	15	232	0
Canaan	15	0	0
Carthage	26	0	0
Dover	34	0	13
Lee	0	47	0
Lodi	19	0	0
Rome	9	0	0
Trimble	54	9	0
Waterloo	0	9	0
Village of Albany	0	39	0
Village of Chauncey	8	0	0
Village of Jacksonville	1	0	0
Village of Trimble	0	0	14
2021 TOTALS TONS	522	352	38



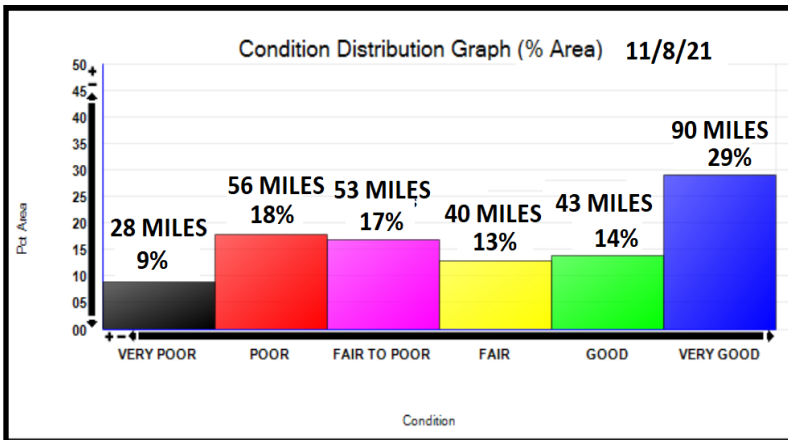
THE CONDITION OF ATHENS COUNTY ROADS

Kindler and Associates, LLC developed a pavement management system for the Athens County road infrastructure. Pavement Condition Index (PCI) ratings only apply to county roads with impervious surfaces (i.e. asphalt, chip and seal, and concrete). Kindler inspected the roads that we improved in 2020 and 2021, and provided the following charts:



The **CONDITION RATING** in the charts from VERY POOR to VERY GOOD are based on the following Pavement Condition Index (PCI) rating ranges:

Name	LowValue	HighValue	Color
VERY GOOD	91.00	100.00	Blue
GOOD	76.00	90.00	Green
FAIR	66.00	75.00	Yellow
FAIR TO POOR	56.00	65.00	Magenta
POOR	41.00	55.00	Red
VERY POOR	.00	40.00	Black



The **“VERY GOOD”** roads are now at 90 miles- an increase from 50 miles at the beginning of 2020.

The **“GOOD”** roads are now at 43 miles- an increase from 22 miles at the beginning of 2020.

The **“FAIR”** roads are now at 40 miles- a decrease from 47 miles at the beginning of 2020.

The **“FAIR to POOR”** roads are now at 53 miles and remained the same as the beginning of 2020.

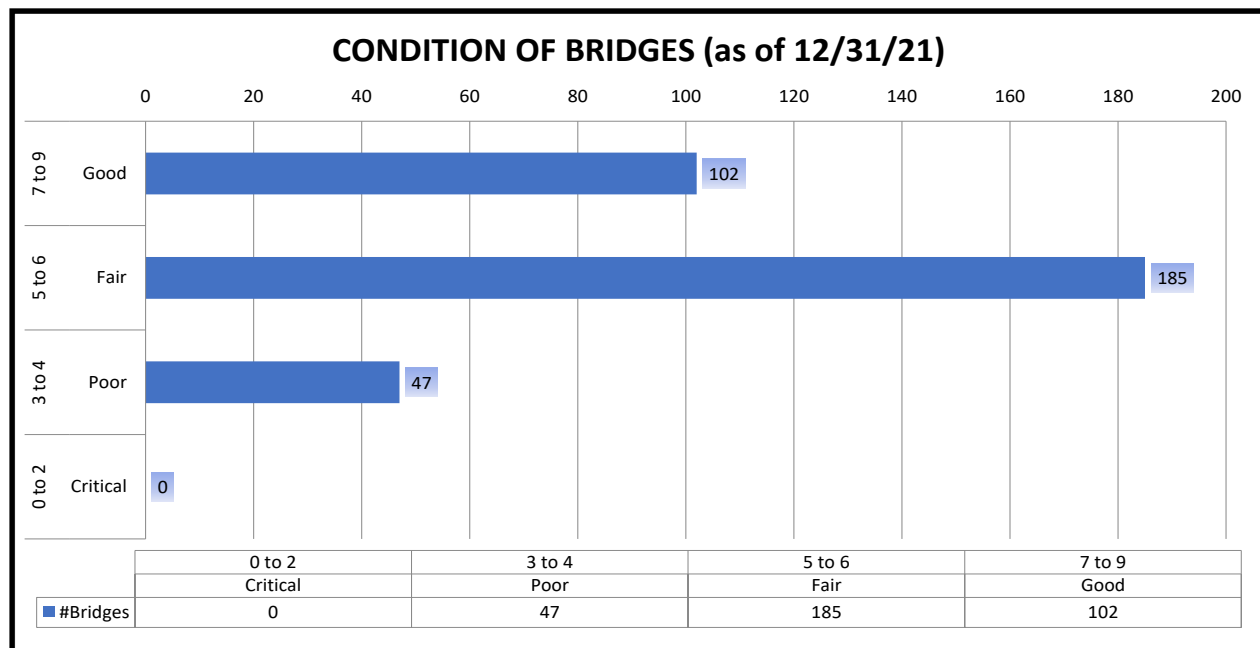
The **“POOR”** roads are now at 56 miles- a decrease from 84 miles at the beginning of 2020.

The **“VERY POOR”** roads are now at 28 miles- a decrease from 56 miles at the beginning of 2020.

CONCLUSION: The overall quality of Athens County roads improved significantly from February 2020 to November 2021.

CONDITION OF ATHENS COUNTY BRIDGES

The Athens County Engineer's Office is responsible for the maintenance, repair, and replacement of 334 bridges, including 142 of those bridges on township roads. If the bridge span is greater than or equal to 10' span, then it is considered a bridge. If a bridge is located on a township road then it is the County Engineer's responsibility to maintain and replace that bridge. Athens County bridges are inspected in November and December each year. The General Appraisal Rating (G.A.) is a number that is used to classify the general condition of the bridge as follows:



There are 102 Athens County Bridges that are classified as “Good”.

There are 185 Athens County Bridges that are classified as “Fair”.

There are 47 Athens County Bridges that are classified as “Poor”.

The “POOR” and “SERIOUS” condition rated bridges need replaced.

The Local Bridge Program (LBR) provides federal funds to counties for bridge replacement projects that qualify. The bridge must have a span greater than or equal to 20'. There are 47 Athens County bridges that are classified as serious (GA=3) or poor (GA=4). The status of these bridges are as follows:

- 4 bridges that we have received LBR grant funds to replace in the next few years.
- 13 bridges that would qualify for LBR grant funds (>20' span) ranked GA = 3 or 4.
- 30 bridges that do not qualify for LBR grant funds and have no identifiable funding source.

BRIDGE AND CULVERT PROJECTS

The Perry Road Bridge Replacement Project (Alexander TR674-0.05)

This bridge was load rated by Pennoni Associates on December 28, 2020 and that report reduced the load limit to 8 tons. Perry Road is a dead end township road that terminates at the Lake Snowden dam. After the new load limit signs were posted on the bridge, a farmer that uses this bridge to access his property notified the Engineer that he had grain (40 ton) and heavy equipment (20 ton) that needed to cross this bridge by July 1, 2021.

Donnie Stevens, Deputy Engineer, quickly developed a bridge replacement project. The site was surveyed; a temporary road was designed; landowners were contacted and temporary easements secured; and a 16' span by 8' high box culvert was designed to replace the existing bridge. The temporary road was completed by June 30th, 2021 so the farmer could get his grain to market. The actual bridge construction was started on July 12th and completed on August 19th, 2021.

New Bridge = 16' span x 8' high

Credit Bridge Received = \$122,409 (can be used as local match toward federal grant funds)

Precast concrete box culvert furnished and installed by Scioto Valley Precast, paving by McKee paving, and guardrail installed by PDK Construction.

TR674-0.05 BEFORE CONSTRUCTION



TR674-0.05 AFTER CONSTRUCTION



BRIDGE AND CULVERT PROJECTS

The Jacksonville Road Bridge Replacement Project (ATH-CR27-3.54)

The existing Jacksonville Road bridge was built in 1939 and had deteriorated to a “serious” General Appraisal rating (GA=3). Steel beams and short steel columns had been installed many years ago to support a cracked concrete deck. The new 10’ span x 4’ high precast concrete box culvert was built by county workers for about half what it would cost to pay a contractor to build it. The field surveying and design were done by Donnie Stevens, Deputy Engineer.

CR27-3.54 BRIDGE REPLACEMENT



Structure	Road No.	Road Name	Project Description	Contractors	Labor & Fringe	Material	Equipment	Force Account
ATH-CR27-3.54	CR 27	Jacksonville Rd	10'x4' box culvert	\$ 49,322	\$ 15,568	\$ 6,837	\$ 9,894	\$ 32,299
ATH-TR674-0.05	TR 674	Perry Rd	16'x8' box culvert	\$ 58,323	\$ 34,462	\$ 35,999	\$ 24,227	\$ 94,688
TOTALS =				\$ 107,645	\$ 50,030	\$ 42,836	\$ 34,121	\$ 126,987

SLIP REPAIRS PROJECTS

Landslide Site	Road No.	Road Name	Funding Source	Contractor	Construction Cost
CR75-3.48	CR75	Coolville Ridge Road	OPWC	Alan Stone Company	\$ 212,048
CR38-0.73	CR38	Sand Rock Road	FEMA	Ohio-West Virginia Excavating	\$ 102,332 **
CR97-0.24	CR97	Pearlwood Road	FEMA	Ohio-West Virginia Excavating	\$ 137,624 **
TOTALS =					\$ 452,004
** Note: CR 38-0.73 and CR 97-0.24 were 95% complete with only paving remaining in 2022.					

The Ohio Disaster Declaration for the FEMA-4424-DR Disaster Event occurred on April 30, 2019. We identified landslides on Sand Rock Road (CR 38-0.73) and Pearlwood Road (CR 97-0.24) that occurred due to the excessive rains in February 2019. These projects were scoped and method of repair was approved by FEMA on April 1st, 2020.

Pearlwood Road Slip Repair (CR 97-0.24): The Athens County Engineer's staff completed the land surveying and Buckley Group completed the engineering design for this 90' long drilled shaft wall solution. Terracon provided soil borings and geotechnical engineering. 100% of the total costs were reimbursed from grant funds. (75% from FEMA and 25% from OEMA)

Sand Rock Road Slip Repair (CR 38-0.73): The Athens County Engineer's staff completed the land surveying and Buckley Group completed the engineering design for this 76' long drilled shaft wall solution. CTL Engineering provided soil borings and geotechnical engineering. 100% of the total costs were reimbursed from grant funds (75% from FEMA and 25% from OEMA)

Coolville Ridge Road Slip Repair (CR 75-3.48): The Ohio Public Works Commission (OPWC) provided 90% emergency funding for the design and construction of a 128' long drilled shaft wall to stabilize Coolville Ridge Road. The landslide happened on June 5th, 2020. Donnie Stevens, Deputy Engineer, surveyed and designed the engineering plans and Terracon completed the geotechnical engineering.

CR75-3.48 SLIP REPAIR



DEEP HOLLOW ROAD EMERGENCY WATERSHED PROTECTION

Deep Hollow Road Storm Damage Restoration (ATH-CR65-6.11-7.42)

Deep Hollow Road was severely damaged by the June 2019 storm event. The damages were documented and submitted to the Federal Emergency Management Agency (FEMA) requesting funding to repair the road. Because the damages originated from erosion along a stream, FEMA rejected this project for funding. The project was then submitted to the Natural Resources Conservation Service (NRCS) for funding and the request was approved.

The project consisted of repairing seven sites affected by the storm event with varying severity along 1.3 miles of Deep Hollow Road. NRCS designed the project and the contract was awarded to Skeens Excavating and Reclaim from Wheelersburg, OH for \$137,325.

The proposed solution consisted of utilizing gabion baskets to stabilize the road on two sites, grouted rock riprap stabilization on three sites, and rock riprap stabilization on three sites. The project began on July 12th, 2021 and was completed on September 7th, 2021.



Site 5: Flood damage before construction.



Site 5: Rock rip-rap after construction.



Site 3: Gabion basket construction



Donnie Stevens and Garrett Maiden

EMPLOYEE SPOTLIGHT

I would like to extend my sincere gratitude for the dedication and commitment that my staff displays throughout the year. Their work is truly commendable and I appreciate the contributions that each individual sets forth each day. They work long hours in the winter to keep roads safe and clear so that motorists can go safely about their daily lives. It is not easy to maneuver a plow truck on some of the steep and narrow county roads, especially when they are covered with ice, sleet, and snow drifts, but our talented staff gets the job done. They are highly skilled at what they do and they brave some pretty tough conditions. They are also called out at all times of the night for tree removal or emergency road closures. I sincerely appreciate the work that they do and I would like to commend the following employees who have 25 + years of service to Athens County.



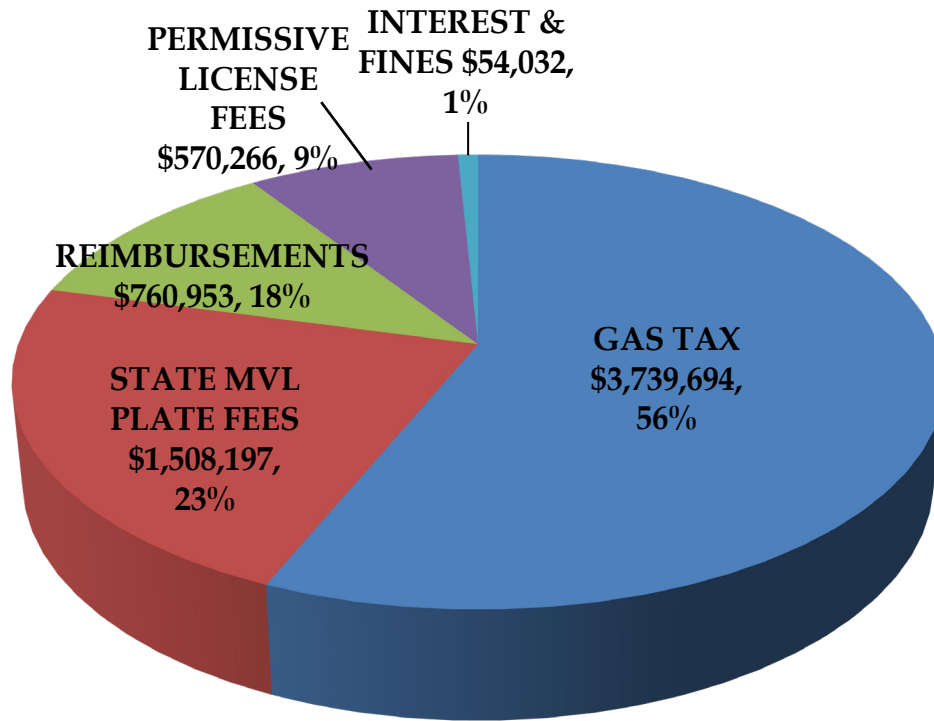
Mike Sheets, Athens County Road Superintendent, was hired full time by the Engineer in June 1978 and has been here for the last 44 years. His favorite part of the job is plowing the snow covered roads in order to keep travelers safe and schools open during winter. Keeping roads safe has been Mike's top priority since day one. He always reminds crews to do the best work possible because we all have family and friends traveling these roads. When Mike isn't working he enjoys tinkering with equipment, spending time with his grand babies, and hanging Christmas lights during the holiday season (quite possibly the best display in Athens County!).

Albert "Shorty" Hawk, Equipment Operator III, began employment with the Athens County Engineer in 1996. His favorite part of the job is running the grader on gravel roads. An unforgettable memory from his 26 years of service was a heavy snow storm when himself and a co-worker, Dick Efaw, plowed snow all night in order to get to four different car wrecks. When Shorty isn't working, he enjoys tinkering in his garage, gardening, and hanging out with family.



Craig Scott, Equipment Operator III, began employment with the Athens County Engineer in 1996. His favorite part of the job is ditching with the Gradall. When Craig isn't working he enjoys hunting, fishing, and spending time with family.

2021 REVENUE: \$6,633,141



FIXED REVENUE

The total revenue received in 2021 was \$6,633,141 with fixed revenue coming in at \$5,872,188. Fixed revenues are the amounts used for annual budget projections and consist of gas tax, MVL plate fees, permissive license fees, and interest/fines.

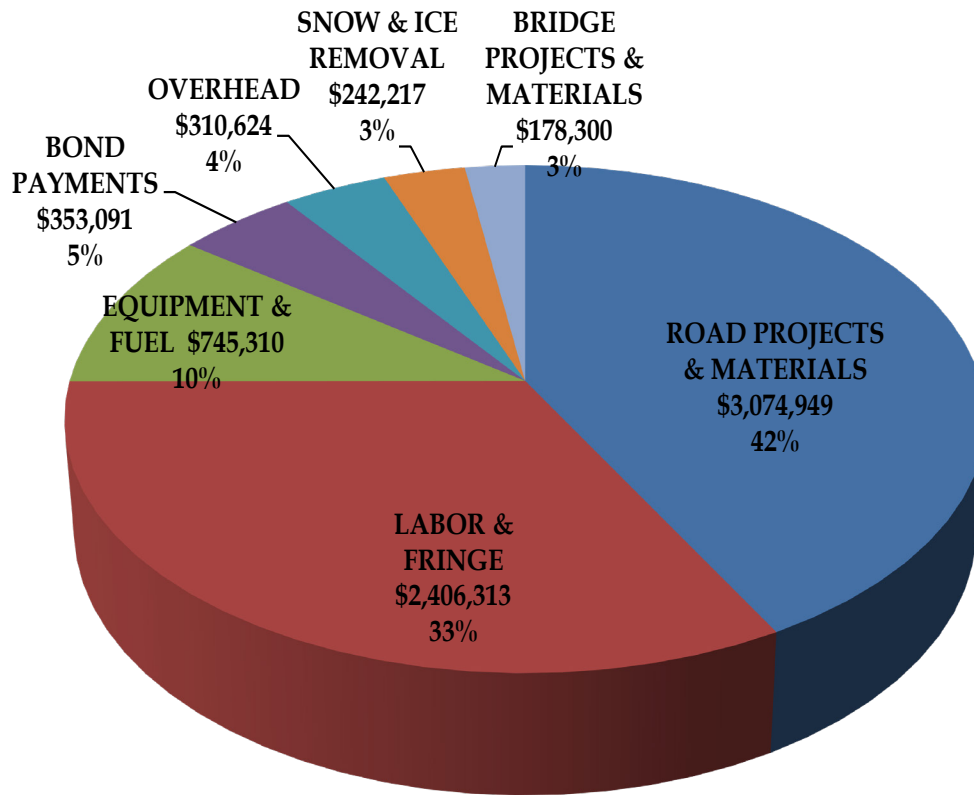
VARIABLE REVENUE

Variable revenues were reimbursements that totaled \$760,953. This category consisted of FEMA grant reimbursements; a BWC grant reimbursement; salt and asphalt cold mix sales to township/villages; and ODNR timber receipts.

PASS THROUGH REVENUE

Pass through revenues are grant funds paid by the State of Ohio directly to contractors on county projects that we plan and manage. The total pass through revenue was \$770,819, thereby making the gross revenue for the Athens County Engineer's Office equal to \$7,403,960.

2021 EXPENSES: \$7,310,804



EXPENSES

Expenses totaled \$7,310,804 in 2021. Road projects and materials came in at 52% of fixed revenues while labor and fringe benefits came in at 41% of fixed revenues. Road projects consist of revenue paid out to contractors for various county road projects including asphalt paving, slip repairs, striping, chip and seal, guardrail, and signs. Road materials consist of limestone aggregates for gravel roads, asphalt cold mix, culvert pipe, etc. Fuel expenses in 2021 were \$214,605 while equipment purchases totaled \$186,787.

CARRYOVER

We started the 2021 calendar year with a balance in the road fund of \$1,933,675. After managing the budget conservatively in 2020, the decision was made to spend some of that carryover on asphalt paving projects in 2021. The 2021 expenses exceeded 2021 revenue by \$677,633, effectively creating a balance in the road fund of \$1,256,012 on January 1st, 2022.

SURVEYS, PERMITS, AND SNOW REMOVAL

Processing Boundary Surveys

If a parcel of land requires a boundary survey in order to transfer ownership, the first step in the process is to submit the survey plat and description to the Athens County Engineer's Office for approval. The County Engineer's staff checked 321 boundary surveys in 2021 for compliance with the minimum standards pursuant to Chapter 4733-37 of the Ohio Administrative Code. The customer then submits the approved survey and description to the County Auditor's office who shall accept the deed for the transfer and a copy of the survey plat is filed in the County Engineer's survey file for public inspection. (Ohio Revised Code 315.251)

Processing Utility Permits in County Road R/W

Utility companies that propose installing a new utility line or modifying an existing utility structure within the "right-of-way" of an Athens County road are required to submit an "Athens County Utility Application Permit" to the Engineer's office for review and approval. Brandon Williams (GIS Specialist) reviews the permit application and makes a site visit for a field review at the proposed site. The County Engineer reviews, approves, and signs the permit and forwards it to the County Commissioners for final approval.

Snow and Ice Removal

When the snow and ice hits, our crews get to work. We have 16 different snow routes that cover 361 miles of county road. To give an idea of the distance that needs to be covered each snow event, it would be the equivalent of driving from Athens to Charlotte, NC and back. Crews spent 921 regular hours and 881 overtime hours plowing and/or treating roads. There were 17 days in the 2021-2022 winter season where county road crews were treating roads with salt and grits, plowing snow, or both.

2021-2022 Snow and Ice Removal		
Item	Amount	Total Cost
Labor (in hours/includes overtime)	1802	\$ 79,443
Fuel (in gallons)	3527	\$ 12,300
Salt (in tons)	1142	\$ 84,337
Grits (in tons)	4715	\$ 68,602
67 Limestone (in tons)	300	\$ 7,518
Total Cost for 2021-2022 Winter Season		\$ 252,200



Fleet of dump trucks loaded for snow and ice removal.



Kenny Waggoner scoping out a fallen tree on Kuhns Road.

FORCE ACCOUNT WORK BY COUNTY EMPLOYEES

BERMING- DITCHING- MOWING- TREE REMOVAL						
Work Item	Manhours	Labor Plus Fringe	Equipment	Materials	Total	Description
Berming	944	\$ 42,677	\$ 44,788	\$ 19,409	\$ 106,874	31 miles of road
Ditching	2220	\$ 101,855	\$ 118,355	\$ 1,693	\$ 221,903	
Mowing	2296	\$ 97,693	\$ 119,498	\$ -	\$ 217,191	3 rounds/ 1083 miles
Tree Removal	2700	\$ 115,547	\$ 96,796	\$ -	\$ 212,343	1,225 Trees Removed
Totals =		\$ 357,772	\$ 379,437	\$ 21,102	\$ 758,311	

CULVERT REPLACEMENTS						
County Road	Labor Plus Fringe	Equipment	Materials	Culvert (Feet)	Total	Log Book Totals
CR 29 Big Bailey Road	\$ 5,912	\$ 5,495	\$ 3,866	160	\$ 15,274	36"x40'/24"x40'(2)/18"x40'
CR 85 Big Run Road	\$ 5,003	\$ 4,199	\$ 4,586	160	\$ 13,788	18" x 40'/15"x40'(2)/24"x40'
CR 46 Blackwood Road	\$ 1,517	\$ 1,223	\$ 1,194	40	\$ 3,934	24"x40'
CR 56 Brimstone Road	\$ 569	\$ 407	\$ 564	80	\$ 1,540	12"x40'(2)
CR 44 Bucks Lake Road	\$ 2,140	\$ 2,042	\$ 1,205	40	\$ 5,387	36"x40'
CR 102 Cowan Road	\$ 1,295	\$ 966	\$ 48	30	\$ 2,309	12"x30'
CR 80 Enlow Road	\$ 3,554	\$ 3,257	\$ 2,727	40	\$ 9,539	24"x40'
CR 14 Factory Road	\$ 2,051	\$ 2,114	\$ 1,407	80	\$ 5,573	12"x80'
CR 84 Felton Road	\$ 1,343	\$ 1,194	\$ 1,504	40	\$ 4,041	18"x40'
CR 42 Fossil Rock Road	\$ 2,743	\$ 3,713	\$ 4,011	40	\$ 10,468	18"x40'
CR 19 Hebbardsville Road	\$ 6,957	\$ 5,842	\$ 3,932	160	\$ 16,730	15"x40'(3)/12"x40'
CR 36 Hooper Ridge Road	\$ 4,872	\$ 5,106	\$ 4,303	160	\$ 14,281	15"x40'(4)
CR 27 Jacksonville Road	\$ 5,906	\$ 4,071	\$ 1,038	112	\$ 11,016	18"x72'/15"x40'
CR 90 Mansfield Road	\$ 3,677	\$ 3,107	\$ 2,153	80	\$ 8,937	12"x40'(2)
CR 78 Marion Johnson Road	\$ 3,677	\$ 1,779	\$ 2,153	40	\$ 7,609	15"x40'
CR 3 New Marshfield Road	\$ 1,864	\$ 1,850	\$ 1,352	60	\$ 5,067	24"x60'
CR 51 Plantsville Road	\$ 1,260	\$ 1,506	\$ 1,662	40	\$ 4,428	18"x40'
CR 19 Radford Road	\$ 1,325	\$ 1,295	\$ 1,672	50	\$ 4,291	24"x50'
CR 57 South Rodehaver Road	\$ 2,113	\$ 1,683	\$ 1,453	40	\$ 5,250	34"x40'
CR 9 Salem Road	\$ 4,432	\$ 3,890	\$ 5,514	132	\$ 13,837	24"x52'/15"x40'/24"x40'
CR 38 Sand Rock Road	\$ 2,706	\$ 2,512	\$ 1,999	40	\$ 7,217	18"x40'
CR 65 Vanderhoof Road	\$ 9,219	\$ 9,398	\$ 11,605	200	\$ 30,222	15"x40'(3)/18"x40'/24"x40'
Totals	\$ 74,136	\$ 66,654	\$ 59,947	1824	\$ 200,737	



ATHENS COUNTY ENGINEER 2021

Row One: Mike Sheets, Brandon Williams, Andrea Friendscho, Jeff Maiden, Donnie Stevens, Craig Scott, Kenny Waggoner, Dick Efaw, Brian Baker, Billy Gould Row Two: Travis Brooks, Brent Kasler, Bill Mellinger, Dave Harvey, Justin Carder, Matt Hobart, Jeremy Hayes, Kenny Coen, Shorty Hawk Row Three: Justin Williams, Cory Russell, Tracy Bobo Row Four: Lyle Fuller, John Brunton Not Pictured: Mark Meili

2021 ATHENS COUNTY ENGINEER'S MANAGEMENT TEAM:

Jeff Maiden, P.E., P.S.
County Engineer

Donnie Stevens, P.E., P.S.
Deputy Engineer

Michael Sheets
Road Superintendent

Kenny Waggoner
Road Superintendent

Lyle Fuller
Garage Supervisor

Andrea Friendscho
Business Manager

John Brunton
Bridge Maintenance Supervisor

Brandon Williams
CAD/GIS Technician

Contact the Athens County Engineer's Office:

Address:
16000 Canaanville Road
Athens, Ohio 45701

Office Hours:
Monday to Friday
7:00am to 3:30pm

Phone: 740-593-5514
Email: engineer@athensoh.org
Website: athenscountyengineer.org
Twitter: @jeffmaiden1