

CR 11 BRIDGE

Design and construction inspection of the CR 11 bridge was completed by the Engineer's Office staff. The existing steel beam bridge was replaced with a 30' x 12' precast concrete box culvert 68' in length.



GUARDRAIL

County crews made repairs to 1,162.5 feet of guardrail along county roads. Total cost for this work was $83,949.60. A contractor completed replacement of guardrail along CR 10 and CR 56, this work had started in 2024. In addition the contractor made several repairs to damaged guardrail. Total cost of contract work was $228,479.44.

BUILDING AND GROUNDS

In addition to the salt shed upgrades other maintenance costs included replacement of heaters and 2 garage doors at the Irondale garage, upgrades to the complex computer network along with new ceiling tile, carpet and paint at the Complex office. The total cost was $258,143.41

EQUIPMENT

Item	Cost
1 Superior Self Propelled Broom	$ 80,661.00
1 Ford F350 Pickup Dump Truck	$ 64,300.00
1 8' Plow and Hopper	$ 24,117.00
1 Ford F350 Pickup Chassis	$ 57,367.00
1 Peterbilt Tandem Chassis	$ 142,721.00
2 International Tandem Chassis	$ 259,399.58
3 Plow Hitches	$ 18,906.90
3 Hydraulics Systems	$ 95,514.00
1 Vehicle Telematics System	$ 9,761.55
1 Hydraulic Hose Assembly Kit	$ 8,343.07
3 Used Single Axle Dump Trucks	$ 12,000.00
2 Brine Tank - 2000 Gallon	$ 7,270.00
1 Brine Pump	$ 2,068.00
Total Cost	$ 782,429.10



Superior Self Propelled Broom

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Mapping Department
Courthouse
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PAVEMENT MARKINGS

Double Yellow Center Line			
Road	**Begin**	**End**	**Miles**
1	Rayland Corp.	Well Site	4.60
2	Yorkville Corp.	Termini	2.23
3	SR 647	Termini	1.67
4	CR 17	CR 16	1.22
7G	SR 7 Ramp	SR 7 Ramp	0.77
8	SR 150	SR 152	3.63
9	Wintersville Corp.	Termini	0.85
11	SR 152	CR 10	3.77
12	CR 10	Harrison Co. Line	1.29
14	SR 150	CR 15	2.76
15A	CR 15	CR 16	0.00
16	CR 17A	CR 15	4.23
17	SR 7	CR 15	5.93
17A	Rayland Corp.	TR 155	2.38
19	TR 1390	SR 151	3.26
22A	Bloomingdale Corp.	Harrison Co. Line	2.99
22A	US 22 Ramp	Wintersville Corp.	2.85
23	SR 151	Bloomingdale Corp.	5.23
25	SR 151	CR 26	4.20
26	Doral Street	CR 23	9.90
28	CR 74	CR 26	2.56
29	CR 30	Mingo Jct. Corp.	0.32
30	CR 28	Steubenville Corp.	2.57
33	Wintersville Corp.	CR 26	2.61
34	CR 22A	Wintersville Corp.	1.40
34	CR 22A	MM 2.15	2.15
36	SR 152	TR 136	4.64
38	CR 22A	CR 39	2.62
40	SR 646	SR 152	2.86
41	SR 43	SR 43	1.84
42	CR 46	Toronto Corp.	1.72
44	CR 7G	Byron Street	0.29
45	SR 43	SR 213	4.70
46	SR 213	SR 7	2.47
47	SR 152	SR 7	3.99
49	SR 164	Carroll Co. Line	2.15
51	SR 213	SR 213	4.40
53	Bergholz Corp.	SR 213	11.35
54	MM 2.43	CR 58	4.06
56	SR 7	CR 54	12.60
57	CR 56	CR 53	4.23
60	SR 43	CR 75	3.74
61	CR 75	Amsterdam Corp.	2.21
65	CR 26	CR 28	1.39
68	SR 152	CR 51	4.10
74	Mingo Jct. Corp.	TR 175	5.36
75	SR 43	SR 164	4.93
77	Steubenville Corp.	Steubenville Corp.	1.37
Total Center Line			**162.39**

The contractor also completed lane lines, stop lines, crosswalk lines, lane arrows and school zone markings. Total project cost was $123,396.75.

MAP OFFICE STATS

Deeds reviewed and recorded	3,813
Property splits and/or combinations	325
Copies provided per month	708
New surveys and descriptions reviewed	241

Jefferson County Engineer's Office
2025 Year End Report

FIRST YEAR AS ENGINEER

The Jefferson County Engineer's Office remains committed to maintaining and improving the county's roads, bridges, and drainage infrastructure that residents rely on every day. During my first year as Jefferson County Engineer, our dedicated staff focused on essential maintenance activities including pavement repairs, ditching, culvert replacements, roadside mowing, and winter snow and ice control to preserve roadway conditions and extend the life of taxpayer-funded infrastructure. Bridge inspections and maintenance also remained a top priority to ensure safe and reliable travel across the county. Strategic roadway resurfacing and preservation projects were also completed to maximize the lifespan of our transportation system while responsibly managing limited funding. Although Jefferson County faces ongoing challenges related to aging infrastructure and financial constraints, our office will continue to prioritize careful planning, responsible stewardship of public resources, and a commitment to serving the residents of Jefferson County.

None of these accomplishments would be possible without the hard work and dedication of the Jefferson County Highway Department employees and the staff of the Engineer's Office. Their professionalism, experience, and willingness to work long hours in demanding conditions are the foundation of the services our office provides. I would also like to extend my sincere appreciation to the residents of Jefferson County for their continued support, and to the Jefferson County Board of Commissioners for their leadership and commitment to maintaining our county's infrastructure. Working together, we continue to make meaningful progress in maintaining the transportation system that keeps our communities connected.

Eric B. Hilty, P.E., P.S.
Jefferson County Engineer

Eric B. Hilty, P.E., P.S.

Snap Shot

- *Miles paved 3.76*
- *Miles chip sealed 13.67*
- *LF pipe installed 394*
- *Miles road markings 162*
- *Bridges replaced 4*
- *New signs installed 130*
- *Slip repairs 6*
- *Tons of aggregate 3,063*
- *Gallons emulsion 32,761*
- *Tons of salt 6,000*
- *Tons of asphalt 5,838*

SALT STORAGE IMPROVEMENTS

Two major facility projects completed in 2025 significantly improved the Jefferson County Engineer's ability to support winter road maintenance. With these improvements, the department now has the capacity to store approximately **6,000 tons of road salt** for treating county roads during winter operations.

The first project involved the complete replacement of the roof system on the salt storage building at the County Highway Complex. The structure had been damaged in October 2023 when a delivery truck struck the building, bending steel trusses and tearing the fabric roof. After delays in determining the scope of repairs, worsening damage required full replacement of the truss system and fabric roof. The work was completed in January 2025, and the building was immediately returned to service.

The second project was made possible through a **$75,000 Chloride Reduction Grant** from the Ohio Environmental Protection Agency. The grant funded construction of a new **500-ton salt storage building** at the department's Eastern outpost garage serving the Amsterdam and Bergholz areas. Previously, salt was hauled to this location each fall, stored on the ground under tarps, and returned to the main facility in the spring if unused. The new facility eliminates the need to haul salt back and forth while providing improved protection from weather and runoff. The building also features a modified design with independent roof supports and improved ventilation to reduce corrosion of steel trusses. The walls, piers, and roof were constructed by a contractor, while County crews installed the concrete floor, ramp, and brine system. The total project cost was **$136,839.17**, with the Ohio EPA grant covering a substantial portion of the expense.



New 500 Ton Capacity Salt Storage Building — Eastern Outpost Garage

BRIDGES

2025 Bridge Replacements / Rehabilitations						
Township	**Route**	**SLM**	**Description**	**Cost**	**Funding**	**Contractor**
Knox	TR289	0.06	Historic Truss Rehabilitation	$ 1,623,140.00	FED/BHJ	US Bridge
Springfield	TR472	0.12	Truss Replaced with Steel Beam Bridge	$ 913,980.00	OBPP	OH WV Exc.
Smithfield	CR11	2.25	Steel Beam Bridge Replaced with Box Culvert	$ 687,235.00	LOCAL/OPWC	S.T.A.R.T.
Smithfield	CR6	0.00	Steel Beam Bridge Replacement	$ 1,592,757.00	ST EXCH	Shelly & Sands
Wayne	TR166A	0.34	New Wood Deck	$ 100,813.00	Local	JR Pierce
Knox	CR53	10.66	Parapet Wall Repair	$ 14,000.00	Contractor	JR Pierce
Wayne	TR449	0.20	Abutment/Wingwall Repair	$ 9,485.52	Local	In-house
Smithfield	TR192	0.60	Guardrail Repair and Embankment	$ 8,560.88	Local	In-house
Springfield	TR309A	Wolf Run	9' Diameter Steel Culvert Installed	$ 63,640.11	Local	In-house
			2025 Total Cost	**$5,013,611.51**		

2026 Bridge Design Projects						
TWP	**RTE**	**SLM**	**Description**	**Est. Cost**	**Funding**	**Construction**
Wayne	CR36	0.75	Truss Replaced with Steel Beam Bridge	$ 1,225,000.00	LOCAL/OPWC	2027
			2026 Estimated Cost	**$1,225,000.00**		



Wayne Township Road 166A—New Wood Deck



Springfield Township Road 472—Steel Beam Bridge

SLIP REPAIRS

Road	SLM	Length (FT)	Repair Type	Funding	Cost
CR 54	5.10	64	Driven Pile	County/Ohio EMA ($35,745.75)	$ 46,524.65
CR 54	5.60	148	Driven Pile	County	$ 107,588.25
CR 54	5.70	84	Driven Pile	County	$ 61,063.60
CR 6	2.10	64	Drilled Shaft	County	$ 62,491.90
CR 6	2.20	43	Drilled Shaft	County/OPWC ($51,489.00)	$ 57,211.00
CR 26	11.60	52	Drilled Shaft	County	$ 50,146.00
6 Sites		**455**	**Total Repair Costs**		**$ 385,025.40**
			County Funds		**$ 297,790.65**

Many existing retaining walls along County Roads were constructed using driven steel piles and timber lagging. The timbers have a 30 to 40 year lifespan, with many being installed in the 1980s and 1990s we are now seeing rotted timbers on a regular basis. County crews have started replacing the failing timbers with 6" x 6" recycled plastic panels. The expected lifespan of the newly installed recycled plastic timbers is over 200 years with a cost only slightly higher than traditional wood timbers. In 2025 crews replaced lagging at sites on County Road 4 and County Road 29. Total cost for the two site including materials, labor and equipment was $62,059.80.



CR 4—Timber Lagging Replaced with Recycled Plastic Panels

PAVEMENT

Road	Begin	End	Miles	Description	Funding	Cost
26	Well Site	Walnut St	1.96	2" overlay	Grant/Partner/Local	$ 627,812.40
43	SR 43	Well Site	1.80	1.25" overlay	OPWC/Local	$ 361,059.86
		Total Length	3.76		Total Cost	$ 988,872.26
					County Funds	$ 300,382.19

2025 Upgrades and Repairs to County Roads by Gas and Oil Industry						
Road	**Begin**	**End**	**Miles**	**Company**	**Description**	**Cost**
25	CR 26	Well Site	0.72	Ascent	Base Repairs and Chip Seal	$ 185,055.00
26	Well Site	CR 34	7.09	Ascent	Base Repairs and Chip Seal	$ 67,765.00
					Total Cost	$ 252,820.00

PAVEMENT REPAIRS

Crews made repairs to failed sections of asphalt road surface on County Roads 29 and 65. This work was completed to address immediate needs along with preparation of roads for resurfacing or chip seal in the next 2 to 3 years. A summary of repairs completed by County forces is below.

Mill and Fill Pavement Repair Summary			
Road	**Mill and Fill Area — SY**	**Asphalt - Tons**	**Total Cost**
29	494	120	$33,158.87
65	610	155	$21,242.52
Total	**1104**	**275**	**$54,404.39**

Summary of Spot Paving by County Forces					
Road	**Begin**	**End**	**Miles**	**Tons used**	**Cost**
8	TR 118	SR 152	2.60	276.20	$ 58,885.16
11	Well Site	CR 10	2.80	259.68	$ 50,089.26
12	CR 10	TR 141	0.95	137.78	$ 27,747.97
17	SR 7	CR 18	4.30	306.03	$ 59,231.25
36	Bridge	SR 152	0.75	91.80	$ 19,765.13
38	CR 22A	CR 39	2.69	208.95	$ 29,459.14
40	SR 152	Well Site	1.65	439.95	$ 69,106.28
51	SR 213	SR 213	4.62	641.45	$ 106,091.61
53	School	TR 54	0.80	69.00	$ 13,603.80
54	CR 58	Bridge	0.70	247.09	$ 106,832.24
56	TR 371	SR 7	6.30	631.72	$ 113,858.55
57	CR 53	Well Site	2.32	421.41	$ 71,411.36
61	TR 273	CR 75	0.46	414.11	$ 77,607.60
74	TR 168	Tunnel	1.82	91.07	$ 21,363.58
75	SR 43	CR 60	3.60	370.90	$ 66,379.81
		Totals	**36.36**	**4607.14**	**$ 891,432.74**

CULVERT & CATCH BASIN INSTALLS

	Culvert Size					
Road	**12"**	**18"**	24"	**30"**	**CB**	**Cost**
15					1	$ 1,555.04
26		180	110	55	5	$ 66,691.96
41		3				$ 2,303.95
56				40		$ 9,618.86
61	6					$ 4,567.10
Total	**6**	**183**	**110**	**95**	**6**	**Total Pipe**
394 LF pipe and 1 catch basins installed.						**$ 84,736.91**

In addition to the above work, a contractor was hired to clean catch basins and drainage pipes on CR 26 prior to resurfacing. County crews completed 7.10 miles of ditch cleaning and 7.47 miles of shoulder grading. County crews also cleaned various culverts and placed dump rock to prevent erosion. Total cost for drainage work is $946,444.42.

CHIP SEAL

County crews placed a chip seal on 13.67 miles of County Roads including 4, 24, 25, 26, 54, and 68. For County Roads 25 and 26 Ascent Resources paid for materials. On County Road 54, Mooretown Hill, crews made repairs to the road surface prior to chip seal which included grading, adding aggregate and dust control. Total county funds spent for chip seal was $378,828.23. Crews also sealed 23.71 miles of Township Roads.

VEGETATION

Contract tree trimming and removal was completed on County Roads 36 and 53 at a cost of $108,014.96. County crews completed right of way clearing on sections of County Roads 29 and 61 in addition to mowing on County Roads 7F, 15, 17, 18, 21, 25, 26, 33, 40. 46, 47, 51, 68 and 72. Right of Way mowing by contractor consisted of three passes at a cost of $42,822.00. County forces applied 259 gallons of herbicide at a cost of $43,069.86. Total cost of Vegetation Management was $563,238.85.

SIGNS

The County uses three types of signs: Regulatory, Warning and Informational. At the end of 2024 the sign inventory consisted of 4,249 signs of varying types. In 2024, 130 new signs were added, 222 signs were replaced, 157 signs were reset or relocated and 7 signs were removed. Including materials, equipment and labor the total cost was $70,450.69.

