

LINCOLN COUNTY HIGHWAY DEPARTMENT

2023 ROAD AND BRIDGE
CONSTRUCTION AND PROJECT
SCHEDULE AND INFORMATIONAL
PUBLIC MEETING

INTRODUCTIONS

- PRESIDING COUNTY COMMISSIONER
- ASSOCIATE COUNTY COMMISSIONER DIST. 2
- ASSOCIATE COUNTY COMMISSIONER DIST. 1
- HIGHWAY DEPARTMENT SUPERVISOR
- HIGHWAY DEPARTMENT ASST. SUPERVISOR
- HIGHWAY DEPARTMENT ASST. SUPERVISOR

JOSEPH KAIMANN

MATT BASS

MIKE MUELLER

ERIC TAPLEY

LANCE WEBER

JEREMY PARTL

TOPICS COVERED TONIGHT

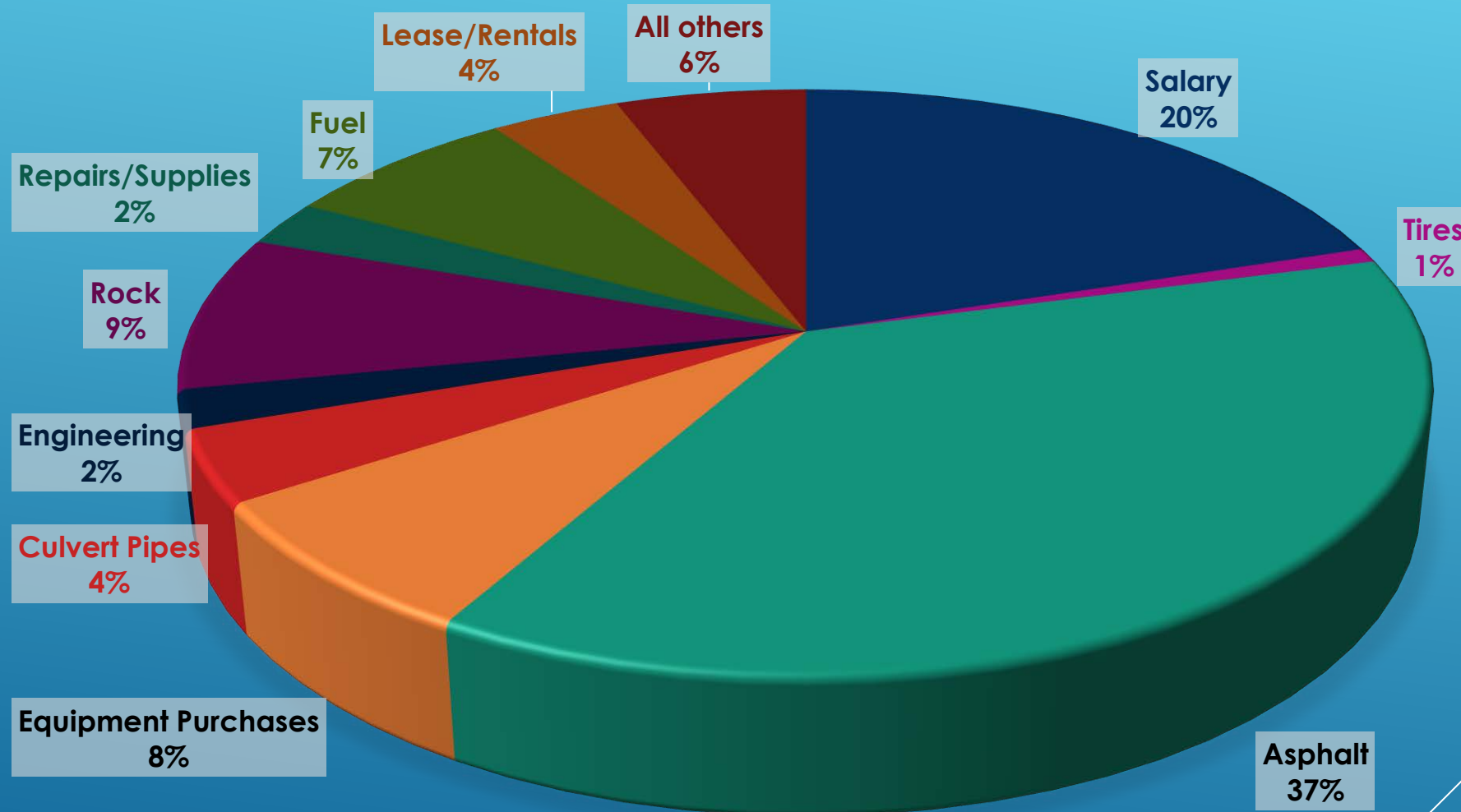
- GENERAL INFORMATION ABOUT LINCOLN COUNTIES ROAD AND BRIDGE SYSTEM
- BUDGET
- WHAT ARE OUR RESPONSIBILITIES?
- CARTEGRAPH, WHAT IS IT AND HOW DOES IT HELP?
- MAINTENANCE COSTS
- TRAFFIC COUNTS
- HOW DO WE DETERMINE WHICH PROJECTS TO CONSTRUCT?
- BRIDGES
- ASPHALT
- SIGNS
- ROAD CONSTRUCTION PROJECTS
- 2023 SCOPE OF WORK WITHIN OUR SYSTEM
- HOW TO CONTACT US, GET INFORMATION?

LINCOLN COUNTY HIGHWAY DEPARTMENT

GENERAL INFORMATION


- Lincoln County contains 640 square miles of area.
- Highway Department maintains 480 miles of roads, all county roads except Elsberry Special Road District
- County roads have a green sign with “Lincoln County” at the top
- Approximately 30 full time employees, and four seasonal employees
- 285.97 miles of Gravel roadway
- 194.72 miles of Asphalt or other hard surface roadway
- Over 4300+ culverts
- Over 2600+ signs
- 86 Bridges
- 39 slab/low water crossings
- 10 dump trucks, 20+ pick up trucks, 5 graders, asphalt equipment, skid loaders, hilight, excavators, backhoes, wheel loaders, tractors and mowers, bucket truck, and several other light pieces of equipment

2023 BUDGET



TOTAL 2023 BUDGET:
\$7,581,361.69

RESPONSIBILITIES WITHIN OUR SYSTEM

- MOWING OF EASEMENTS
 - SIGNAGE MAINTENANCE
 - HAULING OF GRAVEL, ASPHALT, DIRT, CONCRETE
 - BLADING OF GRAVEL ROADS
 - ASPHALT -- PAVING, PATCHING, OTHER REPAIRS
 - WINTER MAINTENANCE -- PLOWING, SALTING, PRETREATING
 - TREE TRIMMING
 - EQUIPMENT MAINTENANCE
 - CUSTOMER SERVICE
 - CULVERT PIPE INSTALLATION AND REPLACEMENT
 - DITCHING
 - ROAD CONSTRUCTION -- TREE REMOVAL, WIDENING OF ROADWAY, ETC.
- 
- A series of three parallel white diagonal lines extending from the bottom right towards the center of the slide.

CARTEGRAPH ASSET MANAGEMENT

Cartegraph was installed in 2017 as a result of poor record keeping and documentation after severe flooding and damage to our roads and bridges during 2015 FEMA storm events. Lincoln County realized that proper asset management is a must and saves taxpayer money. This has resulted in better records and documentation resulting in full funding from FEMA. We have also used this information for budgeting, project planning, and public sharing.

Map Filter Search by address

Measure Select

+

129

SAVE LAYER

SAVE LAYER

SAVE LAYER





Back

Home > Assets > Pavement: SNYDER562

Pavement **SNYDER562**☒ Map☒ Location☒ Details☒ Risk☒ Overlay and Seal History☒ Inspections☒ Tasks☒ Traffic☒ Linked Assets☒ Attached Files

Tasks

0

☒ PROJECTED
Tasks

0

☒ PLANNED
Tasks

0

☒ IN PROGRESS
Tasks

98

☒ COMPLETED
Tasks

0

☒ CANCELED
Tasks

Task ID	Activity	Status	Entered By	Estimated Start ...	Actual Start D...	Actual Stop Da...	Total Cost	Priority		
76129	Blade	Completed	bbaragiola	11/10/2022	11/10/2022	11/10/2022	\$422.04	None		
75698	Haul	Completed	dweitkamp	10/17/2022	10/17/2022	10/17/2022	\$181.13	None		
74419	Haul	Completed	jponder	7/26/2022	7/26/2022	7/26/2022	\$191.09	None		
74152	Haul	Completed	dharrison	8/3/2022	8/3/2022	8/3/2022	\$360.91	None		
73967	Blade	Completed	etapley		7/27/2022	7/27/2022	\$110.66	None		
73919	Clear Debris/Tree...	Completed	mhinderliter		7/26/2022	7/26/2022	\$68.45	None		
73907	Clear Debris/Tree	Completed	mfwellman	7/27/2022	7/27/2022	7/27/2022	\$86.74	None		

Report parameters

StartDate

1/1/2022

StopDate

1/1/2023

Street

Snyder Rd 562

Activity

Haul

Activity2

Blade



Apply

Summary

1/1/2022 - 1/1/2023

ID	Street	Total Mileage
SNYDER562	Snyder Rd 562	1.47

Task Detail

Task	Date Completed	Activity	Labor	Equipment	Materials	Total Cost
69329	2/23/2022	Haul	\$26.23	\$67.70	\$89.13	\$183.06
69347	2/23/2022	Blade	\$35.54	\$80.43	\$0.00	\$115.97
69726	3/14/2022	Blade	\$71.08	\$160.86	\$0.00	\$231.94
72084	5/10/2022	Haul	\$15.72	\$33.85	\$86.11	\$135.68
72156	5/12/2022	Haul	\$15.72	\$33.85	\$89.28	\$138.85
72233	5/16/2022	Blade	\$106.62	\$241.29	\$0.00	\$347.91
73967	7/27/2022	Blade	\$43.16	\$67.50	\$0.00	\$110.66
74152	8/3/2022	Haul	\$71.08	\$135.40	\$154.43	\$360.91
74419	7/26/2022	Haul	\$31.43	\$67.70	\$91.96	\$191.09
75698	10/17/2022	Haul	\$31.43	\$67.70	\$82.00	\$181.13
76129	11/10/2022	Blade	\$100.32	\$321.72	\$0.00	\$422.04
Totals			\$548.33	\$1,278.00	\$592.91	\$2,419.24
Average Cost Per Mile			\$2,419.24	1.47 Miles		\$1,645.74

ID	Street	Total Mileage
562SNYDER	Snyder Rd 562	2.29

Task Detail

Task	Date Completed	Activity	Labor	Equipment	Materials	Total Cost
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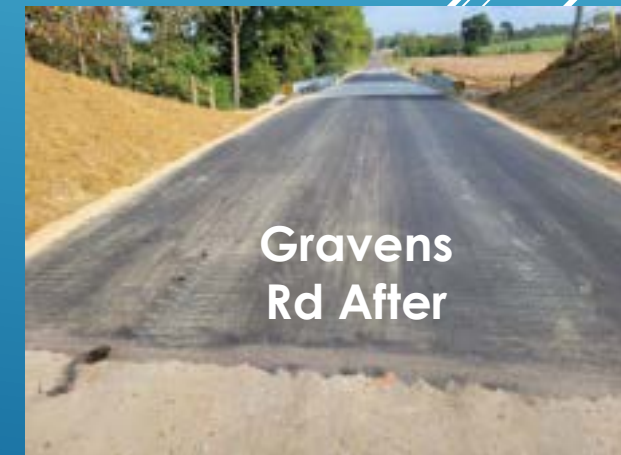
TRAFFIC COUNTERS

- Sign technicians install traffic counters at designated locations to gather data.
- Traffic Counts are tabulated into a spreadsheet for future use.
- Traffic Counts are used to help better understand maintenance issues and needs.

Road #	Road Name	Location of Counter	Start Date	Stop Date	ADT
690	Ackerman Rd	N. Lindsey	9/14/2021	9/21/2021	105
690	Ackerman Rd	N. Lindsey Rd	4/27/2022	5/2/2022	96
718	Adelhardt Rd	Hampel Rd	10/27/2021	11/1/2021	1070
595	Aubuchon Rd	Hwy 47 end	8/18/2020	8/24/2020	152
595	Aubuchon Rd	Hwy 47	4/19/2021	4/27/2021	166
604	Barrett Rd	at bridge	7/27/2021	7/31/2021	99
453	Beck Rd	Hwy O end	10/13/2021	10/18/2021	107
453	Beck Rd	Hwy A end	10/13/2021	10/18/2021	111
497	Bethel Rd	Hwy A at bridge	6/27/2022	6/30/2022	96
497	Bethel Rd	Hwy A end	1/31/2023	2/3/2023	57
692	Birkhead Rd	LWC	8/31/2021	9/2/2021	113
634	Blackmore Rd	Hwy W end	4/6/2021	4/12/2021	172
634	Blackmore Rd	Hwy W end	5/16/2022	5/19/2022	145
634	Blackmore Rd	Hwy Y end	5/16/2022	5/19/2022	538
634	Blackmore Rd	Hwy W end	9/13/2022	9/19/2022	193
634	Blackmore Rd	Hwy W	1/27/2020	1/29/2020	108
810	Blue Goose Rd	Gravens Rd end	11/3/2020	11/9/2020	136
810	Blue Goose Rd	Hwy 47	3/14/2022	3/18/2022	300
810	Blue Goose Rd	Gravens Rd end	3/14/2022	3/18/2022	156
810W	Bluegoose Rd	Gravens Rd end	6/23/2020	6/25/2020	152
597	Bohemian Church Rd	Hwy AA	8/16/2022	8/24/2022	70
597	Bohemian Church Rd	Hwy 47 end	1/31/2023	2/3/2023	59
687	Boyd Rd	Hwy 47	4/27/2022	5/2/2022	63
278	Buck Creek Rd	Hwy H	9/30/2021	10/5/2021	94
278	Buck Creek Rd	Hwy H end	8/29/2022	9/1/2022	95
642	Burr Oak Rd	Mcintosh Hill Rd	11/15/2021	11/21/2021	87
785	Camp Charren Rd		11/5/2021	11/10/2021	395
785	Camp Charren Rd	Start of gravel	2/14/2022	2/18/2022	69
785	Camp Charren Rd	Hwy U	2/14/2022	2/18/2022	387
307	Cannonball Rd	Hwy F	7/5/2022	7/8/2022	70
879	Carter Rd	S of Mette Rd	2/3/2020	2/5/2020	51
565	Cave Farm Rd	N. Moore School Rd	4/13/2021	4/19/2021	119
565	Cave Farm Rd	Hwy H	5/3/2022	5/10/2022	181
655	Cheatham Rd	Hwy KK	7/18/2022	7/21/2022	107
319	Clark Rd	Hwy F	3/4/2020	3/6/2020	192
319	Clark Rd	First Corner - Hwy F	7/5/2022	7/8/2022	124
233	Comerstone Church Rd	Hwy Z end	9/6/2020	9/8/2020	98
233	Comerstone Church Rd	Hwy Z end	3/23/2021	3/29/2021	104
288	Corso Rd		5/12/2021	5/20/2021	73
	Creech Ln	US 61/ west of service rd	10/13/2022	10/22/2022	903
732	Creech Rd	Myers Rd end	6/21/2021	6/28/2021	139

BRIDGES

- 11 Bridges built or rehabbed in 4 year span (2019-2022).
 - Lincoln County has 2 bridges rated in Poor condition by MoDOT inspectors. One of these will be replaced in 2023, Mennemeyer Rd.
 - Bridges are very costly, most are funded through grants or Federal BRO funds.
-
- 2022 – None
 - 2021 – Page Branch Rd (BRO), Phelps Ln, Martin Rd, Gravens Rd
 - 2020 – Eversmeyer Rd (BRO), Meier Rd
 - 2019 – Snyder Rd, Humphrey Rd (Grant), Zumwalt Rd (Grant), Gessman Rd (Grant), Hampel Rd (Rehab of Superstructure).



ASPHALT

2022 – Overlay – 15.04 miles
2022 – New Asphalt – 8.4 miles

2021 – Overlay – 21.78 miles
2021 – New Asphalt – 6.97 mile

2020 – Overlay – 8.43 miles
2020 – New Asphalt – 8.15 miles

2019 – Overlay – 16.59 miles
2019 – New Asphalt – 1 mile

2018 – Overlay – 3.85 miles
2018 – New Chip Seal – 20 miles

5 Year Total – Overlay – 65.69 miles
5 Year Total – New Asphalt – 44.52
miles



WHAT DOES IT COST TO PAVE MY ROAD?

- What is the cost to pave 1 mile of new roadway?
 - New culverts, tree clearing, ditching, and grading is completed, cost of this varies.
 - Then we add 3 inches of pugged base rock, \$13,000.
 - Asphalt is laid at 3 inches of Bit Base, \$115,000.
 - Next is spray tack oil and add 1 1/2" of BP-2 asphalt, \$60,000.
 - Add in labor and trucking for another \$50,000.
 - Total cost for a new asphalt road per mile is at least \$250,000.
-
- What is the cost to overlay or repave an existing asphalt roadway?
 - We mill driveways and approaches at other roads, spray tack oil, add 2 inches of BP-2 asphalt.
 - Asphalt is \$75,000, tack oil is \$2500, Trucking is \$9,000, and Labor of \$5,000.
 - Total cost for an overlay per mile is approximately \$90,000-\$95,000.

HOW DO WE DECIDE WHICH PROJECTS TO TACKLE?

- TRAFFIC COUNTS
- TYPES OF TRAFFIC
- ROAD MAINTENANCE COSTS/MILE
- ROAD READINESS
- PARTIALLY PAVED ALREADY
- CONNECTIVITY
- RESIDENT COOPERATION/EASEMENTS
- BUDGET
- TIME/SCHEDULE
- WEATHER
- COST SHARE PROJECT

GRAVEL TO ASPHALT PAVING PROGRAM

GRAVEL ROAD PAVING PROGRAM RATING SYSTEM

TRAFFIC COUNT▼	TC▼	MAINTENANCE COST▼	MC▼	ROAD READINESS▼	RR▼	CONNECTIVITY FACTOR▼	CF▼	PARTIALLY PAVE▼	RATING▼
ADT	RATING	COSTS (\$)/YEAR/MILE	RATING	DESCRIPTION	RATING	DESCRIPTION	RATING	NO	0
1-33	1	1-1000	1	0-10% WORK COMPLETED	1	TWO GRAVEL ROADS	2	YES	10
34-67	2	1001-2000	2	10-20% WORK COMPLETED	2	DEAD END ROAD	2		
68-100	3	2001-3000	3	20-30% WORK COMPLETED	3	ONE PAVED & ONE GRAVEL	4		
101-133	4	3001-4000	4	30-40% WORK COMPLETED	4	TWO PAVED COUNTY RDS	6		
134-167	5	4001-5000	5	40-50% WORK COMPLETED	5	ONE STATE & ONE PAVED COUNTY RD	8		
168-200	6	5001-6000	6	50-60% WORK COMPLETED	6	TWO STATE ROADS	10		
201-233	7	6001-7000	7	60-70% WORK COMPLETED	7				
234-267	8	7001-8000	8	70-80% WORK COMPLETED	8				
268-300	9	8001-9000	9	80-90% WORK COMPLETED	9				
300-UP	10	9001-UP	10	90-100% WORK COMPLETED	10				

GRAVEL ROAD PAVING PROGRAM				ROADS				93	MILES				165.50
SCORE SHEET										DATE		2/21/2023	
ROAD #	ROAD NAME	LENGTH (mi)	MC	TC	RR	CF	MS	TS	PP	TOTAL SCORE	MAX SCORE	STATUS	
575	Quarry Rd	2.02	\$6,476	223	10	8	7	7	10	42	50	<div><div></div></div>	84%
797N(N)	N Rock Church Rd	1.86	\$6,222	153	8	8	7	5	10	38	50	<div><div></div></div>	76%
538	Davis Rd	1.72	\$4,824	236	6	8	5	8	10	37	50	<div><div></div></div>	74%
767	Giles Rd	2.67	\$3,893	186	10	6	4	6	10	36	50	<div><div></div></div>	72%
433	Turkey Creek Rd	2.72	\$6,742	114	3	8	7	4	10	32	50	<div><div></div></div>	64%
634	Blackmore Rd	1.24	\$4,352	172	3	8	5	6	10	32	50	<div><div></div></div>	64%
645	Mcintosh Hill Rd	2.38	\$4,373	173	3	8	5	6	10	32	50	<div><div></div></div>	64%
692	Birkhead Rd	0.09	\$5,489		6	10	6	0	10	32	50	<div><div></div></div>	64%

LINCOLN COUNTY POLICY ON PAVING ROADS

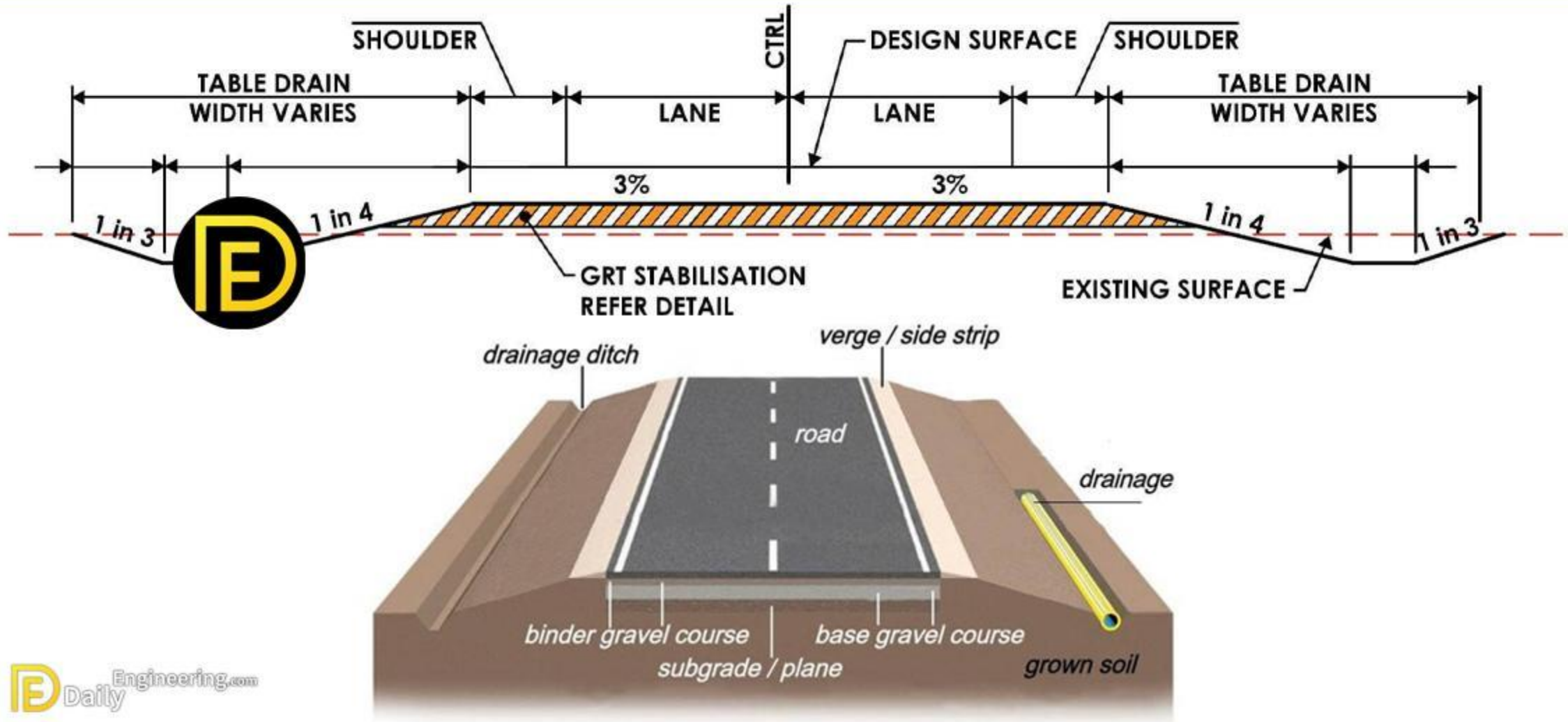
Method of Selection of Roads to Upgrade:

1. By Petition or Request of County Residents
2. By Financial Participation through Cost Share
3. Request of Road and Bridge Department

REQUIREMENTS

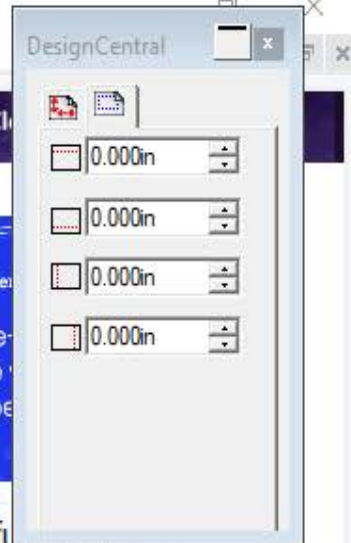
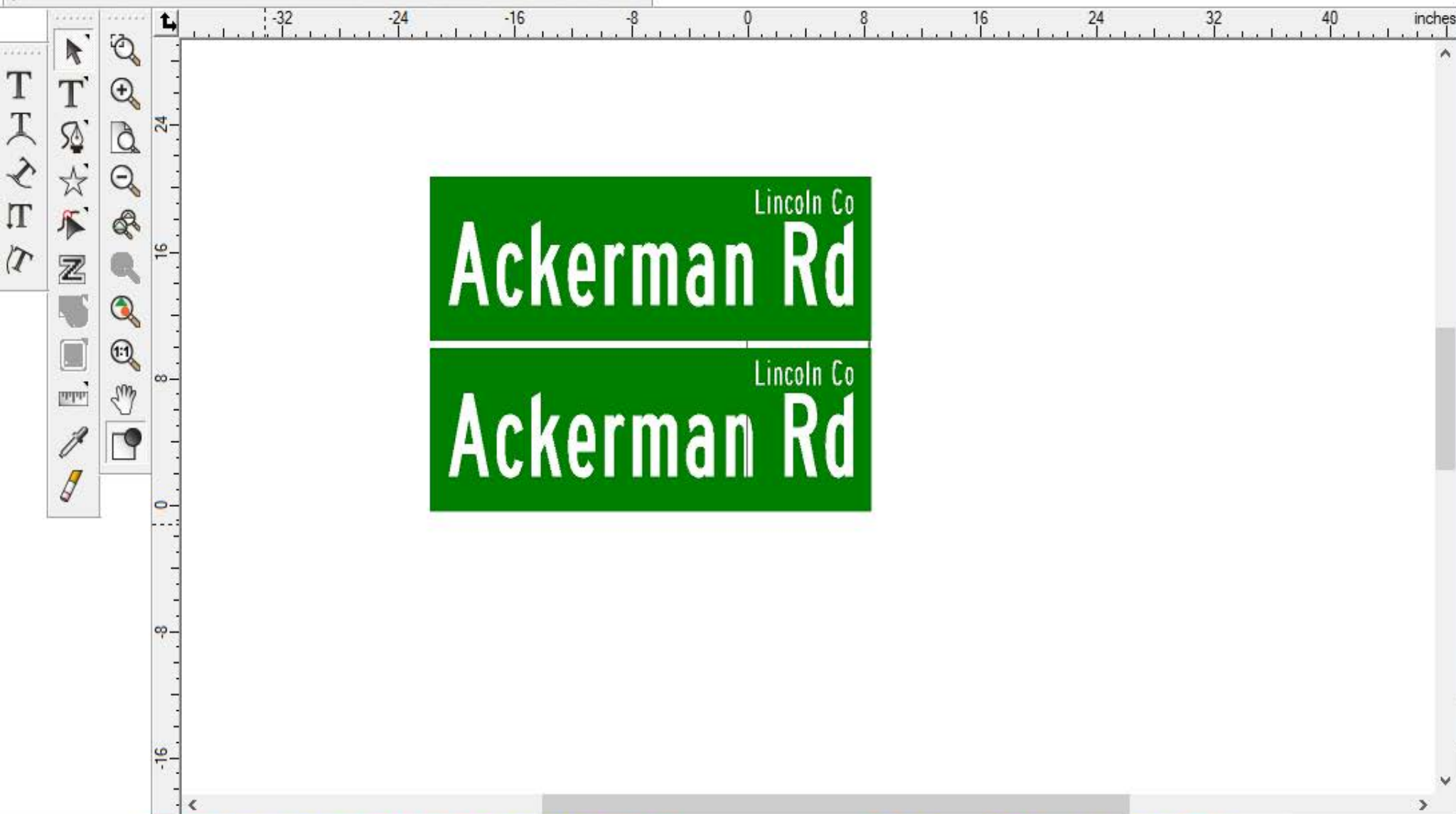
- Minimum traffic volume of 100 ADT.
- Property owners must donate easement needed, usually temporary easements. This varies and depends on several factors.
- Property owners must replace fences and improvements at owners expense.
- In special cases, upgrades may be justified where factors may justify them such as: cost savings to the County or where unsafe conditions apply

Components Of Road Structure And Method Of Construction



SIGN MAINTENANCE

- Lincoln County has a sign shop where employees can design and make our own signs.
- These include private road, county road, curve sign, speed limit, chevron, weight limit, and many others.
- We also can take a faded or damaged sign and reface it to original condition, saving money on buying new signs.
- We started making our signs in house due to long waiting periods when ordering signs.
- We can design, construct, and install a new sign in the same day instead of taking weeks.
- We have had this sign shop going for approximately four years.



Files



SideKick



Reports

Helpful Resources



Knowledge Base



Support



SAi Cloud Account



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SIGN SHOP



ROAD CONSTRUCTION



Carter Rd

- 2019 Projects: Carter Rd, Corso Rd, Twin Valley Rd, Cuivre Ford Rd, Pillsbury Rd

- 2020 Projects: N. Moore School Rd, Sugar Grove Rd, Schemmer Rd, Godt Rd, Giles Rd Bend Weirs, Giles Rd

- 2021 Projects: Timberland Rd, N. Rock Church Rd, S. Chantilly Rd, Kitson Rd, Giles Rd

- 2022 Projects: Taylor School Rd, S. Chantilly Rd, Mette Rd, Meier Rd, Kitson Rd, Huber Ln,



Corso Rd



John Creech Rd



Beck Rd



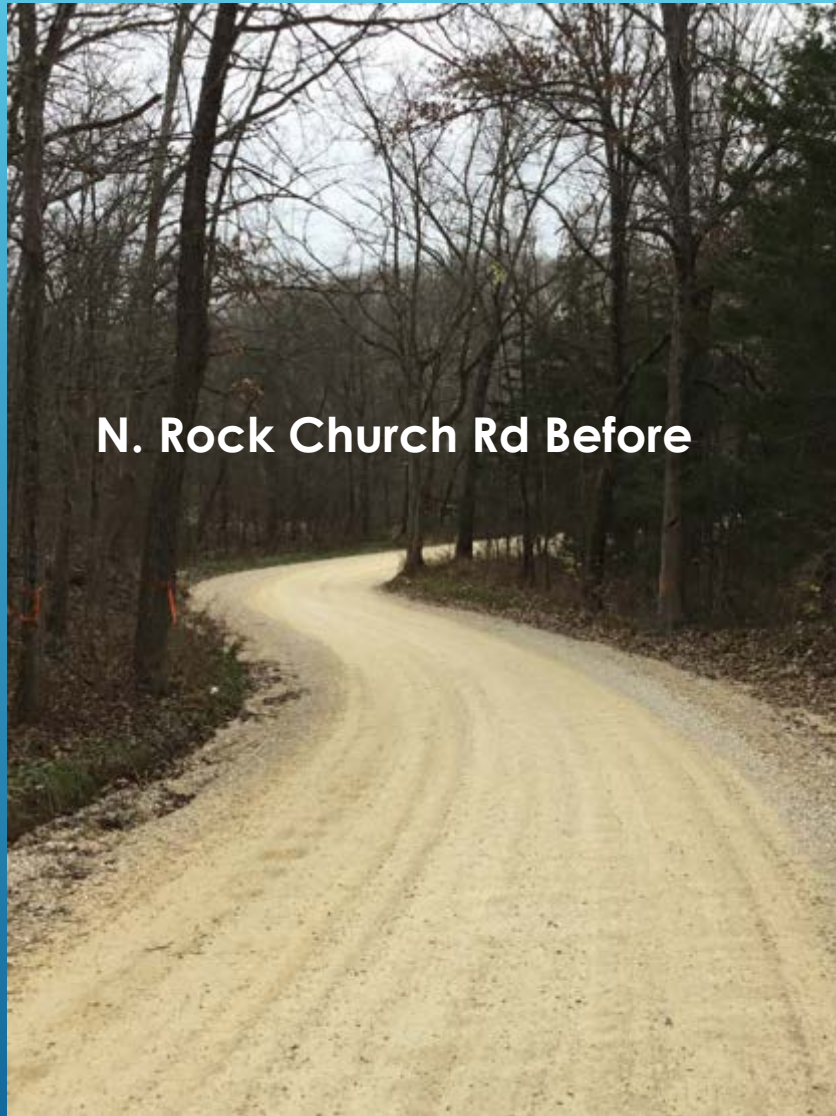
Kitson Rd Before



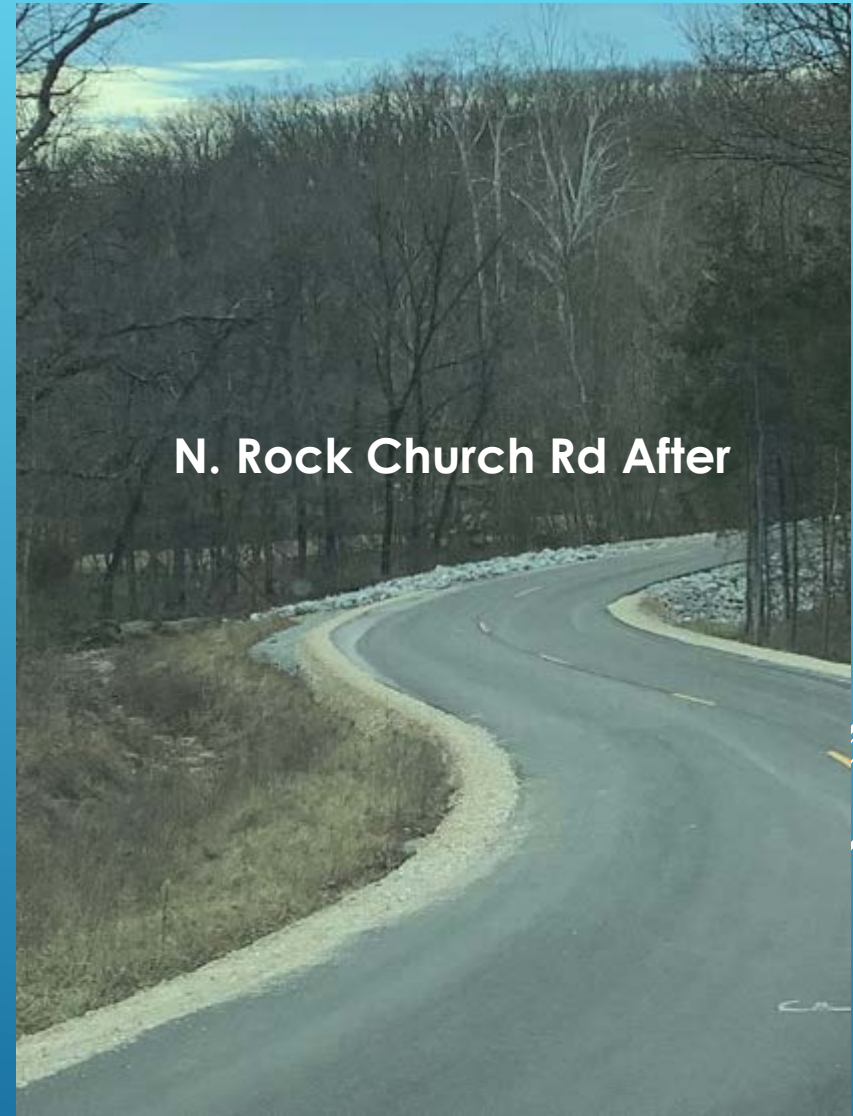
After



N. Rock Church Rd Before



N. Rock Church Rd After





Carter Rd Before



Carter Rd After

2023 PROJECTS AND SCOPE OF WORK

- NEW ASPHALT ROADWAY PAVING
 - ASPHALT OVERLAYS
 - NEW BRIDGES
 - CULVERT AND BOX CULVERTS
 - ROAD CONSTRUCTION
- 

2023 ASPHALT PROJECTS

New Asphalt Roads

▪ Giles Rd	1.2 miles
▪ Kitson Rd	0.6 miles
▪ John Creech Rd	1.62 miles
▪ Davis Rd	1.72 miles
▪ Clark Rd	0.74 miles
▪ Quarry Rd	0.76 miles
▪ TOTAL	6.64 MILES

Asphalt Overlays

▪ Harmony Grove Rd	2.45 miles
▪ Pieper Rd	0.92 miles
▪ Jordan Rd	1.85 miles
▪ S. Jordan Rd	0.17 miles
▪ Maryknoll Rd	1.16 miles
▪ Keelstone Rd	0.84 miles
▪ Himmel Rd	1.3 miles
▪ Elm Tree Rd 707	0.6 miles
▪ Elm Tree Rd 714	2.52 miles
▪ Fieth Rd	1.07 miles
▪ Mashek Rd	0.17 miles
▪ S. Millwood Rd	1.01 miles
▪ St. Alphonsus Rd	1.51 miles
▪ Ninevah Rd	0.27 miles
▪ Paulsmeyer Rd (Olney)	0.2 miles
▪ Paulsmeyer Rd (Hwy E)	0.48 miles
▪ Creech Ln	0.71 miles
▪ Hubbard Ct	0.25 miles
▪ Davis Rd	0.89 miles
▪ Penrod Rd	1.93 miles
▪ Pear Tree Rd	2.58 miles
▪ Mennemeyer Rd	2.48 miles
▪ Fairgrounds Rd	0.71 miles
▪ John Creech Rd	0.92 miles
▪ TOTAL	26.99 miles


2023 BRIDGE AND ROAD CONSTRUCTION PROJECTS

- New bridge on Mennemeyer Rd 0.3 miles North of Pear Tree Rd
- Saddle Ridge Rd – Road improvements and widening
- Fred Norton Rd – Replace LWC with a new box culvert
- Eversmeyer Rd – Remove trees, grade shoulders, widen roadway
- John Creech Rd – Remove trees, grade shoulders, widen roadway
- Creech Rd – Safety improvements, widen roadway, grade shoulders
- Gerding Rd – Remove trees, widen roadway $\frac{1}{4}$ from Hwy 47.
- Davis Rd – Road improvements and widening
- Hammett Rd – Box Culvert replacement and widening.
- Culvert pipe replacement for possible 2024 asphalt projects



**Mennemeyer Rd
Bridge**

WHILE IT IS OUR INTENT TO COMPLETE ALL PROJECTS WITHIN OUR 2023 SCOPE OF WORK, SCHEDULED PROJECTS WILL BE COMPLETED AS TIME, BUDGET, WEATHER, AND OTHER FACTORS PERMIT. THIS SCHEDULE IS SUBJECT TO CHANGE BASED ON THESE FACTORS AND PLANNED PROJECTS MAY BE DELAYED OR CANCELLED.

Three white lines of varying lengths and slopes are positioned in the bottom right corner of the slide, creating a modern, geometric design element.

CONTACT US

- Call Lincoln County Hwy Dept at (636)528-7112
- Go to our webpage at www.lincolncountyhwydept.com
- Go to our Facebook page Lincoln County Highway Department
- Stop by our office at 219 Hwy H, Troy, MO 63379
- Call the Courthouse for the Commission at (636)528-6300.
- Attend our weekly meeting on Mondays at 9AM for the Highway Department meeting with the Commission, open to the public.

