


**Road Advisory Meeting
November 15, 2021**

Cass County Highway Department

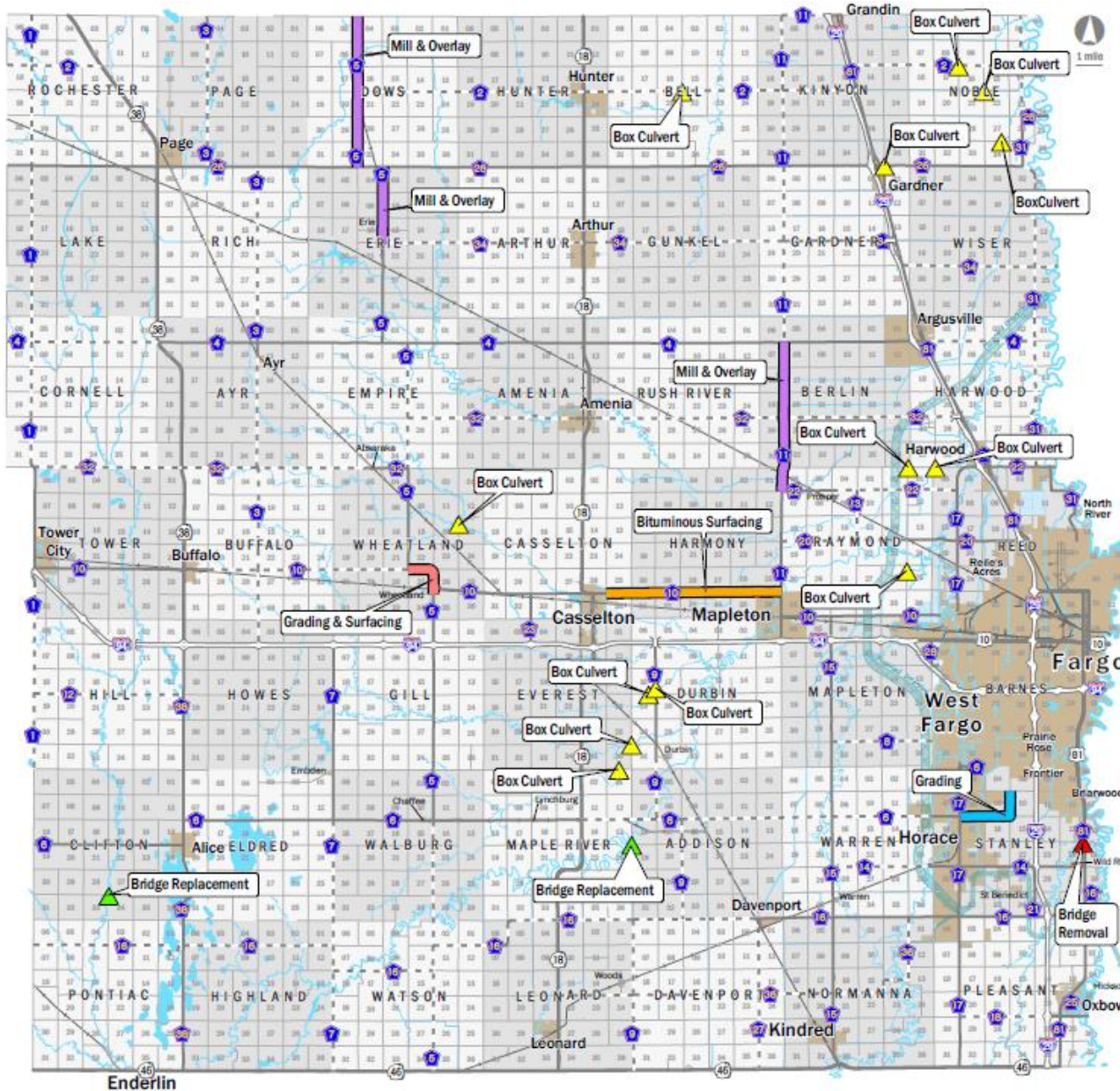


**Road Advisory Meeting
November 15, 2021**

**Update on 2021 Construction
Projects**

Cass County Highway Department

2021 Construction Projects Update



2021 Project Totals

Budgeted:


Hwy Local Funding	\$8.2 million
Hwy Federal Funding	\$0
Bridge Local Funding	\$2.6 million
Bridge Federal Funding	\$1.9 million
Total Funding	\$12.7 million

Completed Projects:

Hwy Local Funding	\$6.6 million
Hwy Federal Funding	\$4.8 million
Bridge Local Funding	\$3.7 million
Bridge Federal Funding	\$1.9 million
Total Funding	\$16.9 million

- ▲ Box Culvert
- ▲ Bridge Removal
- ▲ Bridge Replacement
- ▲ Low Water Crossing
- Bituminous Surfacing
- Grading
- Grading & Surfacing
- Mill & Overlay





**Road Advisory Meeting
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**Proposed 2022 Construction –
Potential Co-Vid Funding Options**

Cass County Highway Department

County ARPA Funding

- The County Finance Office has identified \$5.5 million in ARPA funding available for Highway and Bridge Projects
- The Cass County Highway Department is requesting the Road Advisory Committee recommend the County Commission approve of \$5.5 million for Highway and Bridge Projects to be constructed in 2022 and 2023



State ARPA Funding

- The ND Legislative Special Session may provide some additional State ARPA Funding
- Any State ARPA funds will help offset the loss of \$7.1 million in Prairie Dog funding in 2021-22 and reduced revenue from the State Highway Distribution Fund (\$700k-\$800k per year).
- If additional State ARPA Funding is available, the Cass County Highway Department will prepare additional projects to be constructed in 2022-23



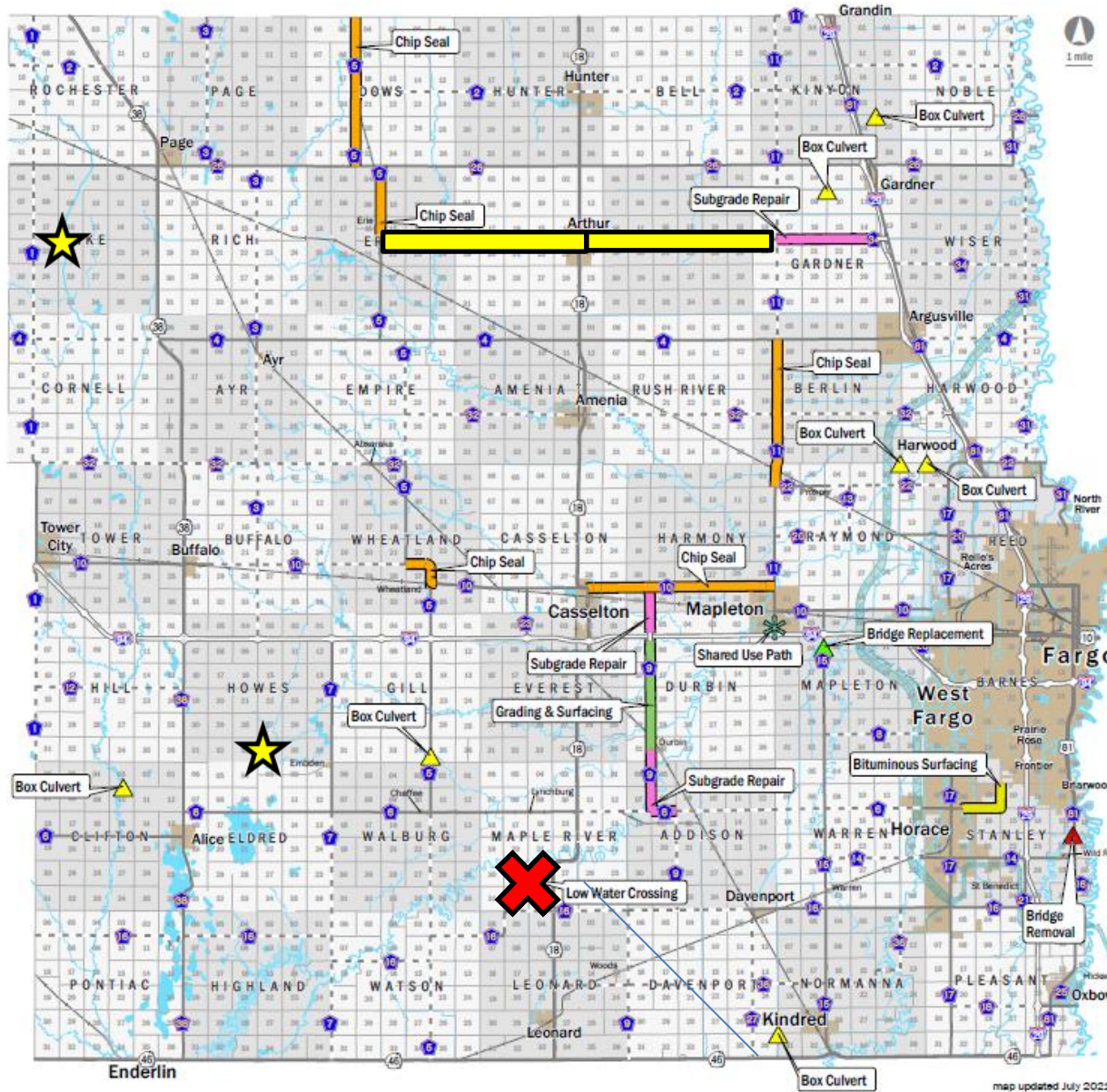
Federal Highway Funding

- Message from NDACo: Stay tuned, as some of this will be direct grants to counties, and we need to be ready to jump
- Office of the Secretary of Transportation (OST)
 - NEW: National Infrastructure Project Assistance Grants: \$15 billion
 - NEW: Safe Streets and Roads for All: \$6 billion
 - NEW: Office of Multimodal Freight Infrastructure (critical for supply chain issues)
 - NEW: Culvert removal, replacement and restoration - \$1 billion
- Federal Highways Administration (FHWA)
 - \$351 billion for highways with \$307 billion provided through formula programs to states. (If NDDOT maintains the local sharing arrangement, this will increase all counties' amounts)
 - \$16 billion for the Highway Safety Improvement Program
 - National Significant Federal Lands Projects and Tribal Projects: \$1.5 billion
 - BRIDGES: Largest investment in bridges since the beginning of the interstate highway system with a new \$28 billion formula based FHWA Bridge program and a NEW \$16 billion bridge grant program.
 - NEW: Rural Surface Transportation Grant Program: \$2 billion



2022 Proposed Construction Projects with \$5.5 M in County ARPA

2022 Project Totals





Budgeted:


Hwy Local Funding	\$6.6 million
Bridge Local Funding	\$2.8 million
Bridge Federal Funding	\$0.9 million
Total Local Funding	<u>\$9.4 million</u>
Total Funding	\$10.3 million










With Additional Projects:

Hwy Local Funding	\$11.6 million
Bridge Local Funding	\$2.8 million
Bridge Federal Funding	\$0 million
Total Local Funding	<u>\$14.4 million</u>
Total Funding	\$14.4 million

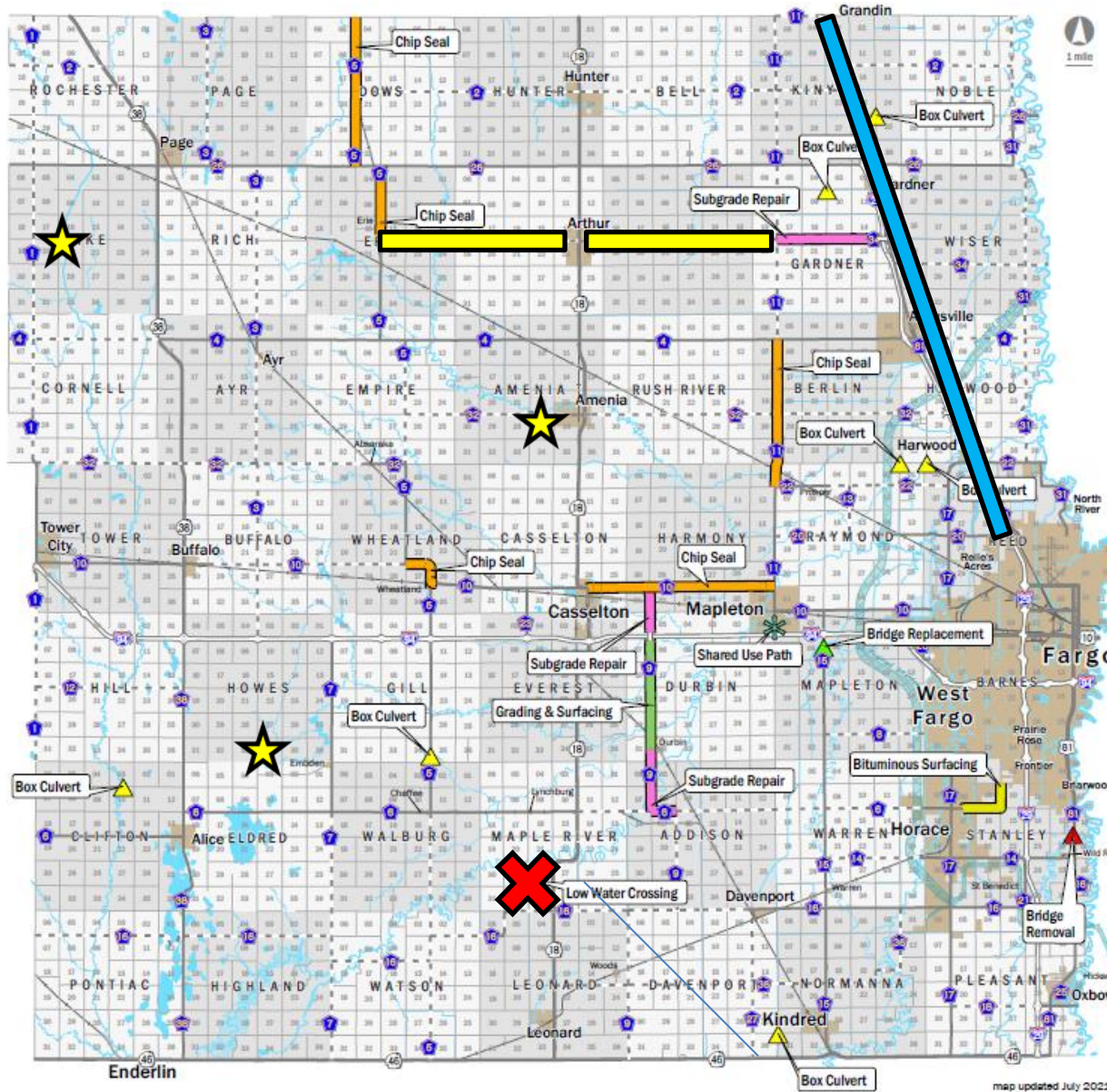
 ADD SUBGRADE REPAIR –
Cass 32 - \$1.8 M and Cass
16 - \$3.2 M, Total \$5.0 M

 REMOVE DUE TO GEOTECH –
\$500K Local and \$900k Federal

 ADD BOX CULVERTS –
\$500K

-  Chip Seal
-  Bituminous Surfacing
-  Grading & Surfacing
-  Subgrade Repair
-  Box Culvert
-  Bridge Removal
-  Bridge Replacement
-  Low Water Crossing
-  Shared Use Path

2022 Proposed Construction Projects with \$5.5 M in County ARPA and State ARPA
















2022 Project Totals

Budgeted:

Hwy Local Funding	\$6.6 million
Bridge Local Funding	\$2.8 million
Bridge Federal Funding	\$0.9 million
Total Local Funding	<u>\$9.4 million</u>
Total Funding	\$10.3 million

With Additional Projects:

Hwy Local Funding	\$12.1 million
Bridge Local Funding	\$3.8 million
Bridge Federal Funding	\$0 million
Total Local Funding	<u>\$15.9 million</u>
Total Funding	\$15.9 million


-  ADD CULVERT LINING – Cass 81 - \$2 M
-  ADD SUBGRADE REPAIR – Cass 32 - \$3.5 M
-  REMOVE DUE TO GEOTECH – \$500K Local and \$900k Federal
-  ADD BRIDGE OR BOX CULVERTS – \$1.5M
-  Chip Seal
-  Bituminous Surfacing
-  Grading & Surfacing
-  Subgrade Repair
-  Box Culvert
-  Bridge Removal
-  Bridge Replacement
-  Low Water Crossing
-  Shared Use Path

Action Item

Recommended Motion: Move to recommend the County Commission approve of \$5.5 million in County ARPA funding for Highway and Bridge Projects to be constructed in 2022 and 2023

Recommended Motion: Move to recommend removing the bridge at Sections 28/29 Maple River Township from the 2022 budget, permanently close, and remove the bridge.





**Road Advisory Meeting
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2022-2026 Hwy & Bridge Plan

Cass County Highway Department

Appendix 1

2022 - 2026

5 Year Capital Improvement Plan

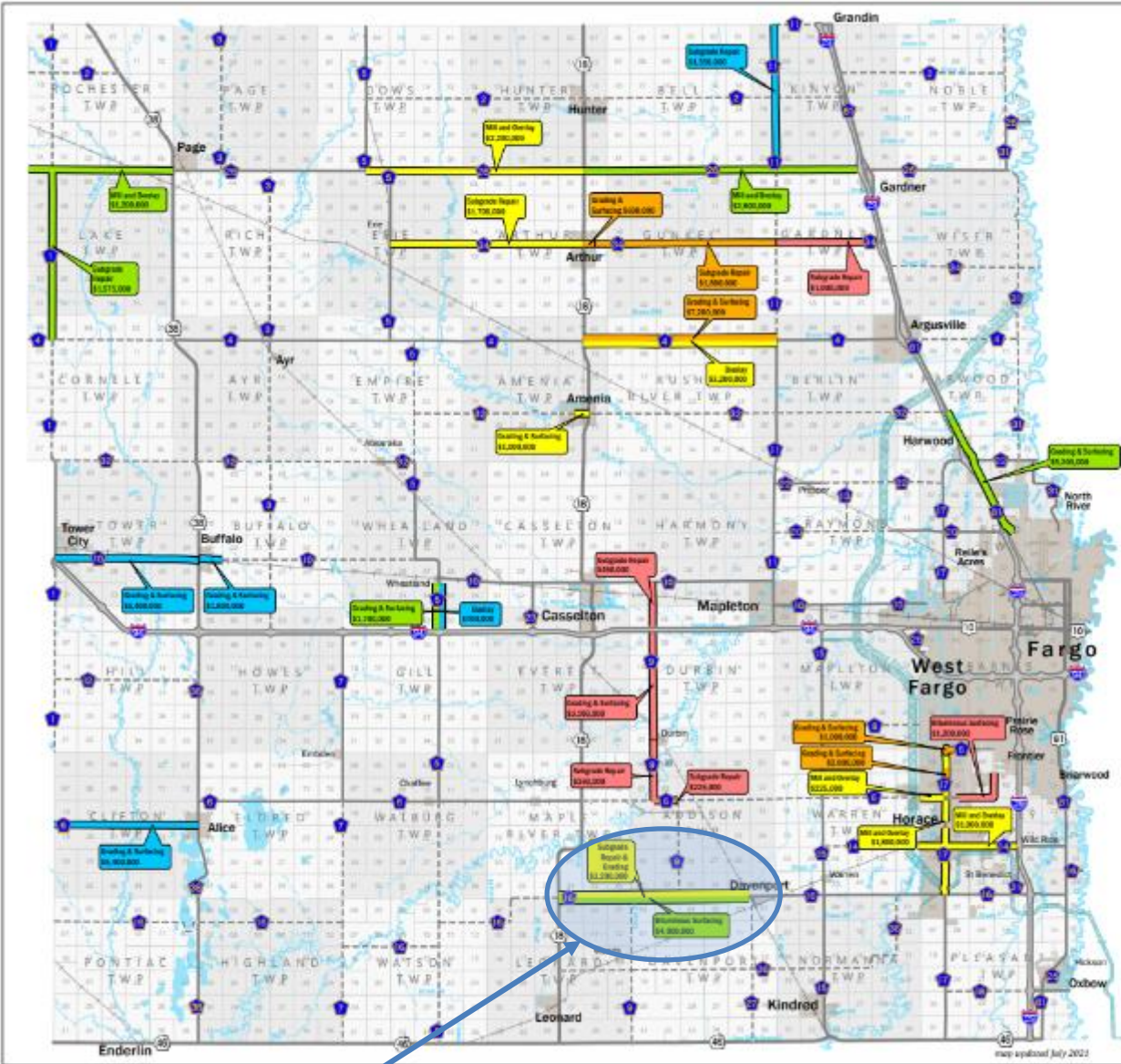
Proposed Highway Projects

█ 2022
 █ 2023
 █ 2024
 █ 2025
 █ 2026

TABLE 5 - PROPOSED HIGHWAY IMPROVEMENTS

HWY	LOCATION	PROJECT TYPE	FUNDING	YEAR	COST
State St	May 17 to 45th St. & 45th St. to 64th St	Reconcrete Surfacing	Local	2022	\$1,200,000
6	May 9th to May 11	Subgrade Repair	Local	2022	\$224,000
6	May 18 to PA	Subgrade Repair	Local	2022	\$476,000
9	104 to Surface	Grading & Surfacing	Local	2022	\$1,000,000
9	Surface to May 6	Subgrade Repair	Local	2022	\$900,000
24	May 11 to 17th	Subgrade Repair	Local	2022	\$1,300,000
8	State Hwy 18 to Hwy 11	Grading & Surfacing	Local	2022	\$7,200,000
8	May 1's & 17th Roadways & S. 130th on Hwy 8	Grading & Surfacing	Local	2022	\$1,000,000
17	May 27 & 44th St S. - Roadway	Grading & Surfacing	Local	2025	\$2,000,000
24	State Hwy 18 East through Arthur	Grading & Surfacing	Local	2022	\$60,000
24	Half a Mile East of State St to Hwy 11	Subgrade Repair	Local	2022	\$1,800,000
8	State Hwy 18 to Hwy 11	Overlay	Local	2024	\$1,200,000
6	Western Division to Hwy 17	M&O Overlay	Local	2024	\$22,500
14	Deerwood River to 129	M&O Overlay	Local	2024	\$1,000,000
10	State Hwy 10 - Resurfacing	Subgrade Repair & Grading	Local	2024	\$2,200,000
17	2nd Ave S. Front Street to Western & Western to Hwy 14	M&O Overlay	Local	2024	\$1,400,000
26	Hwy 7 North to State Hwy 10	M&O Overlay	Local	2024	\$2,000,000
10	State Hwy 10 West through Amoria	Grading & Surfacing	Local	2024	\$1,000,000
28	Hwy 8 to State Hwy 10	Subgrade Repair	Local	2024	\$1,700,000
1	Hwy 1 to Hwy 14	Subgrade Repair	Local	2025	\$1,575,000
1	Woodland to PA	Grading & Surfacing	Local	2025	\$1,700,000
18	State Hwy 18 to Resurfacing	Reconcrete Surfacing	Local	2025	\$5,000,000
75	Barnes Co. Line to 57 Hwy 30	M&O Overlay	Local	2025	\$1,200,000
25	State Hwy 25 to 12th	M&O Overlay	Local	2025	\$2,700,000
81	Hwy 28 to Hwy 10	Grading & Surfacing	Local	2025	\$5,000,000
5	Overlay	Overlay	Local	2025	\$700,000
6	Barnes Co. Line to Hwy 28	Grading & Surfacing	Local	2025	\$5,000,000
10	Hwy 1 to State Hwy 30	Grading & Surfacing	Local	2025	\$5,000,000
10	State Hwy 10 through Reddy 1 Mile East	Grading & Surfacing	Local	2025	\$1,000,000
11	Hwy 28 North to Hwy 1	Subgrade Repair	Local	2025	\$1,200,000

Note: Items to be completed on short notice and subject to change and approval annually and/or as necessary by the Board of Commissioners.



Cass 16 could move to 2023 based on availability of materials

Cass County Highway Department

Jason Benson
County Engineer, P.E.

Tom Soucy
Deputy County Engineer, P.E.

Haige Laavig
Highway Superintendent



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Appendix 2

2022 - 2026 5 Year Capital Improvement Plan Proposed Structure Projects

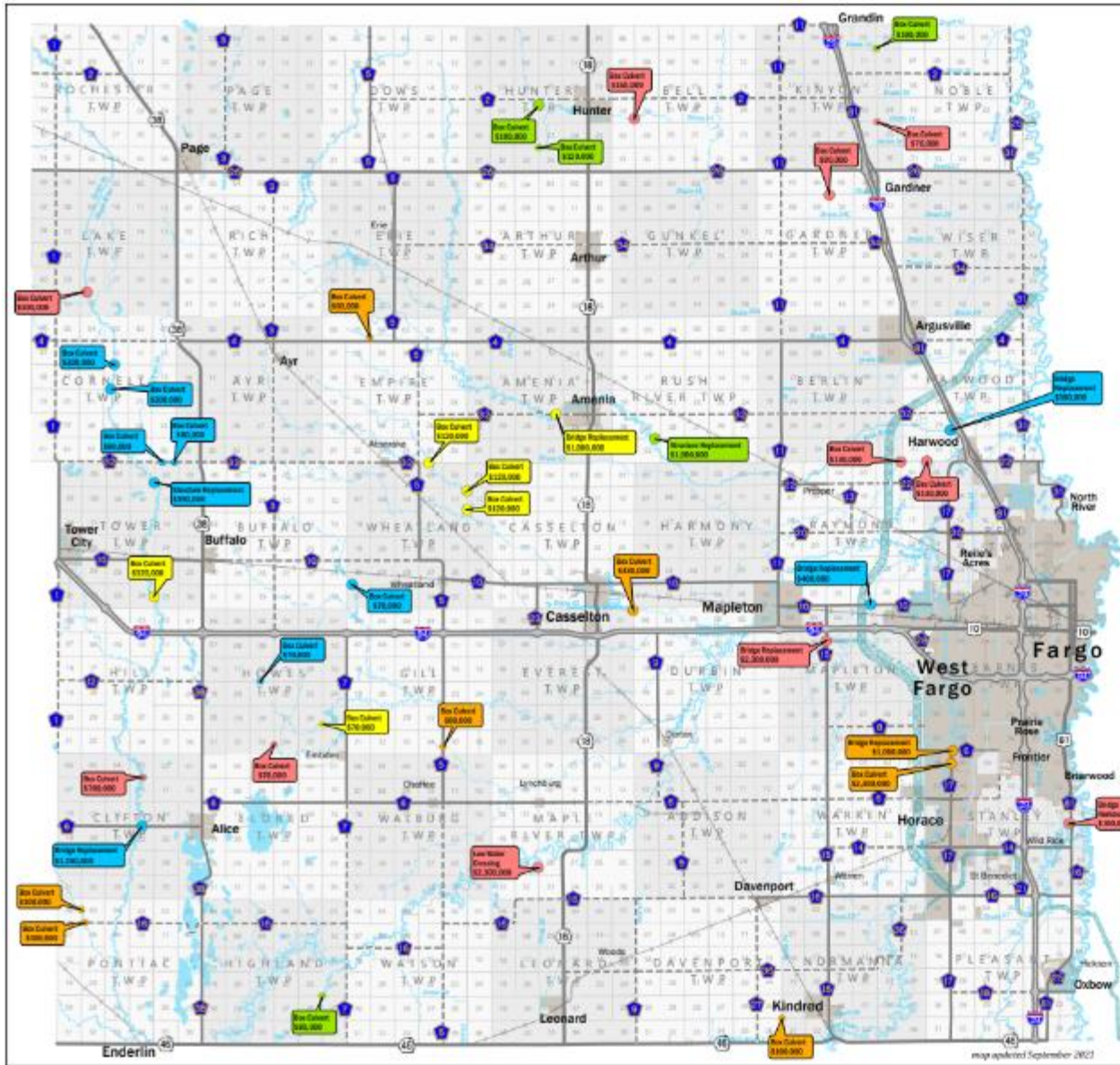
2022 2023 2024 2025 2026

Major Structure ● ● ● ● ●
Minor Structure ● ● ● ● ●

TABLE 7 - PROPOSED BRIDGE IMPROVEMENTS

HWY	LOCATION	PROJECT TYPE	FUNDING	STRUCTURE TYPE	YEAR	COST
16	16/14 Corbett Trgp - North Loop 4500 - Span 23	Box Culvert	Local	Major	2022	\$30,000
	24204 Rowan - Maple & Rowan	Box Culvert	Local	Minor	2022	\$75,000
	20/20 Red - S. Branch of the River	Box Culvert	Local	Major	2022	\$1,000,000
	25/25 Evans Tramping - Span 21	Box Culvert	Local	Minor	2022	\$75,000
	15/15 Olive Tramping on Maple River	Box Culvert	Local	Minor	2022	\$75,000
	15/11 Lake Trgp - 4000' - Span 46	Box Culvert	Local	Major	2022	\$1,000,000
	20/20 Imperial Trgp - Lower Branch of the South River	Box Culvert	Local	Major	2022	\$1,000,000
	2/2 Howard - St. Berles Trgp - Lower Branch of the Rock River	Box Culvert	Local	Major	2022	\$1,000,000
	13/14 Sealey Tramping - Wild Rice River	Bridge Replacement	Local	Major	2022	\$1,000,000
	20/20 Maple River Trgp - Maple River	Low Water Crossing	Local	Major	2022	\$2,000,000
45	215 - 470 Magellan Tramping on Iowa St	Bridge Replacement	Local	Major	2022	\$1,000,000
	4/5 Green/Coronation Trp - Tributary of the Root River	Box Culvert	Local	Minor	2022	\$40,000
80	234 - 340 Pioneer Trgp - Tributary of the Maple River	Box Culvert	Local	Major	2022	\$1,000,000
	2/24 Prairie Trgp - Tributary of the Maple River	Box Culvert	Local	Minor	2023	\$1,000,000
2	CS - 24100 6th Trgp	Culvert Replacement	Local	Minor	2023	\$80,000
4	16 - 16/14/12 Warren Trgp - Otterstone River	Bridge Replacement	Local	Major	2023	\$1,000,000
	20/21 Howard Ave Trgp - Span 24	Box Culvert	Local	Major	2023	\$1,000,000
11	127 - 144 Meadow Trgp - Otterstone River	Box Culvert	Local	Minor	2023	\$1,000,000
	1 Riverbank Fucker Tramping - Iowa Creek	Box Culvert	Local	Major	2023	\$1,000,000
	20/20 Jones Trgp	Box Culvert	Local	Minor	2024	\$75,000
	13/12 N. Woodland Trgp	Box Culvert	Local	Major	2024	\$1,000,000
	13/12 S. Woodland Trgp	Box Culvert	Local	Major	2024	\$1,250,000
	1 Woodland St. Center	Box Culvert	Local	Major	2024	\$1,250,000
12	C10 - 13/17 Adams Trgp - Rock River	Bridge Replacement	Local	Major	2024	\$1,000,000
	14/15 Towner Tramping on Maple River	Box Culvert	Local	Major	2024	\$1,250,000
	13/14 Pioneer Trgp - Old River Trgp	Box Culvert	Local	Major	2024	\$1,000,000
	112 - Brown River St	Box Culvert	Local	Minor	2025	\$1,000,000
	23/22 Howard	Box Culvert	Local	Major	2025	\$1,000,000
	20/20 Highway	Box Culvert	Local	Minor	2025	\$80,000
	20/12 Rock River	Structure Replacement	Local	Major	2025	\$1,000,000
13	C10 - 16 Corbett/2 Trgp - East Branch - Maple & Rowan	Box Culvert	Local	Minor	2026	\$80,000
13	C12 - 16 Corbett/2 Trgp - West Branch - Maple & Rowan	Box Culvert	Local	Minor	2026	\$80,000
	20/20 Woodland Trgp - Maple Creek Trgp	Box Culvert	Local	Major	2026	\$750,000
	14/11 Howard - Maple & Rowan	Box Culvert	Local	Minor	2026	\$75,000
	10/10 Corbett - Dr 50	Box Culvert	Local	Major	2026	\$1,000,000
	10/10 Corbett - Dr 50	Box Culvert	Local	Major	2026	\$1,000,000
	2/2 Prairie Trgp on Maple River	Structure Replacement	Local	Major	2026	\$1,000,000
10	C10 - 21 Howard/2 Machine - Dr 19	Bridge Replacement	Local	Major	2026	\$1,000,000
	24 Howard Trgp - Rock River	Bridge Replacement	Local	Major	2026	\$1,000,000
4	13/12 Collins Tramping - Maple River	Bridge Replacement	Local	Major	2026	\$1,250,000

Note: Work may be completed over alternative and subject to change and approval accordingly under an agreement by the local address committee.



map updated September 2023

Cass County Highway Department

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County Engineer, P.E.

Tom Soucy
Deputy County Engineer, P.E.

Blaine Laevog
Highway Superintendent



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Action Item

Recommended Motion: Move to recommend the County Commission approve of Cass County Comprehensive Highway Plan 2022- 2026





**Road Advisory Meeting
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Davenport Shop Options

Cass County Highway Department


Davenport Shop



- **New 50'x50' shop complete. Cost approximately \$89 per S.F.**
- **Options for existing 40'x50' shop.**
 - **Private parties interested in buying.**
 - **KNDPA is also interested in purchasing the building for their respective township maintenance equipment.**
- **Bought 45'x48' cold storage on 0.45 acres for \$150,000 which is \$69.44 per S.F.**
- **KNDPA is asking us to sell existing 1982 40'x50' building on 0.11 acres for \$125,000 which is \$62.5 per S.F.**

Action Item

Recommended Motion: Move to recommend the County Commission approve the sale of the old Davenport Shop to the Kindred-Normanna-Davenport-Pleasant-Addison for \$125,000



**Road Advisory Meeting
November 15, 2021**

Office Remodel

Cass County Highway Department

Highway Dept Office Remodel

Challenges:

1. Last remodel was in 1997
2. Most cubicles, office furniture, and wall coverings/painting is from 1997
3. Carpet was last replaced in 2005
4. Office space is at over capacity

Opportunities:

1. COVID Funding
2. Complete a remodel rather than just updating cubicles, furniture, and painting
3. A remodel concept was developed in 2018 and can be easily modified based on current and future office space needs (estimated cost - \$1.8 million)

Options:

1. Develop a remodeling plan and updated cost estimate for the 2023 Budget
2. Develop a plan for new carpet, cubicles, painting, etc. and a cost estimate for the 2023 Budget
3. Develop both Option 1 & 2 and present these options to the Commission prior to the 2023 Budgeting



OFFICE AREA

SCALE: 1/8"=1'-0"

6,032 SF Addition

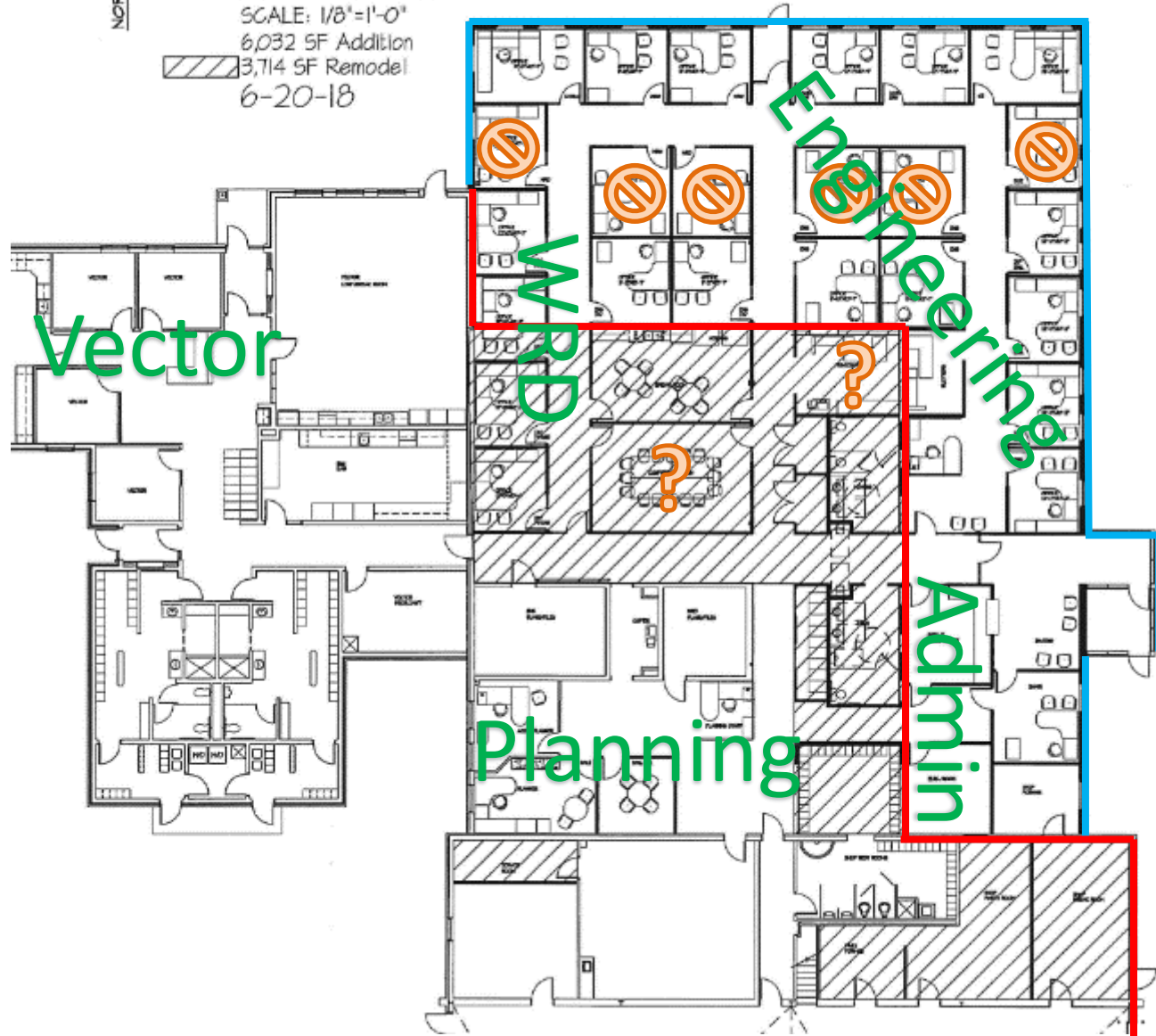
3,714 SF Remodel

6-20-18



New Addition:

1. 12 new office spaces
2. Returns Vector side to Vector Staff only
3. Could reduce the plan
 - Eliminate 6 offices which would allow for 3 additional future staff
 - Evaluate small conference room
 - Evaluate printer/plotter space




Existing Building

Proposed Addition

Action Item

Recommended Motion: Move to recommend the County Commission approve development of a cost estimate for the 2023 budget for the Highway Department office building to...

1. build a new addition and remodel
2. install new carpet, cubicles, office furniture, and painting
3. both an option to remodel and an option for only new carpet, cubicles, furniture, and painting

A photograph of a two-lane asphalt road stretching into the distance. The road has a yellow dashed center line and white solid edge lines. On the left side, there is a dense line of green trees. On the right side, there are green fields. In the far distance, a small building is visible on the right side of the road. The sky is overcast and grey.

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Casselton Soybean Crushing Facility

Cass County Highway Department

Casselton Soybean Crushing Facility



Challenges: Proposed site has no paved road access and limited gravel road access. Expect 200-300 trucks per day

Opportunities: \$400 million project, \$130-\$150 million in property tax value

Options:

1. Pave two miles of new roads
2. 50/50 Cost split with NDDOT
3. Cost of two miles of new road is roughly \$4 million


Current Status: The development group is expecting to decide if this project will move ahead on December 12th. ND Commerce Office is optimistic this project will move forward.



Indicates areas where transportation challenges exist



Indicates NDSU Ag Land – undevelopable land

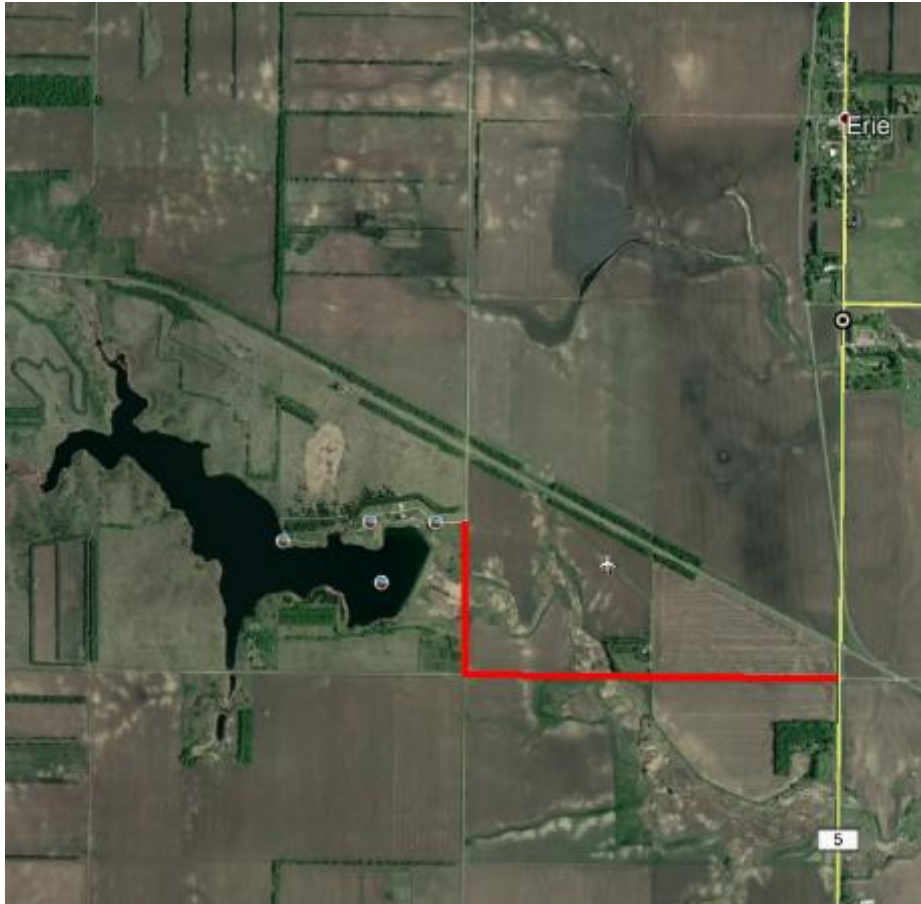


**Road Advisory Meeting
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Brewer Lake – Erie Twp. Road

Cass County Highway Department

Brewer Lake – Erie Twp Road




Road Issues

- Total Length 1.5 Miles
- Soft Spots - Subgrade Repair Project Needed to correct these issues.
- Costly for the Township to maintain gravel road section.
- Winter snowplowing issues
- Connects to a County Owned park therefore could this be a County Road?

- Options
 - Do Nothing
 - Repair Soft Spots – Assist Township with Blading
 - Take it over as a county road and potentially pave the access road and campground.

- Currently Applying for grant funding for 50% of the gravel road regrading and subgrade repair
- We will continue to seek out other funding options

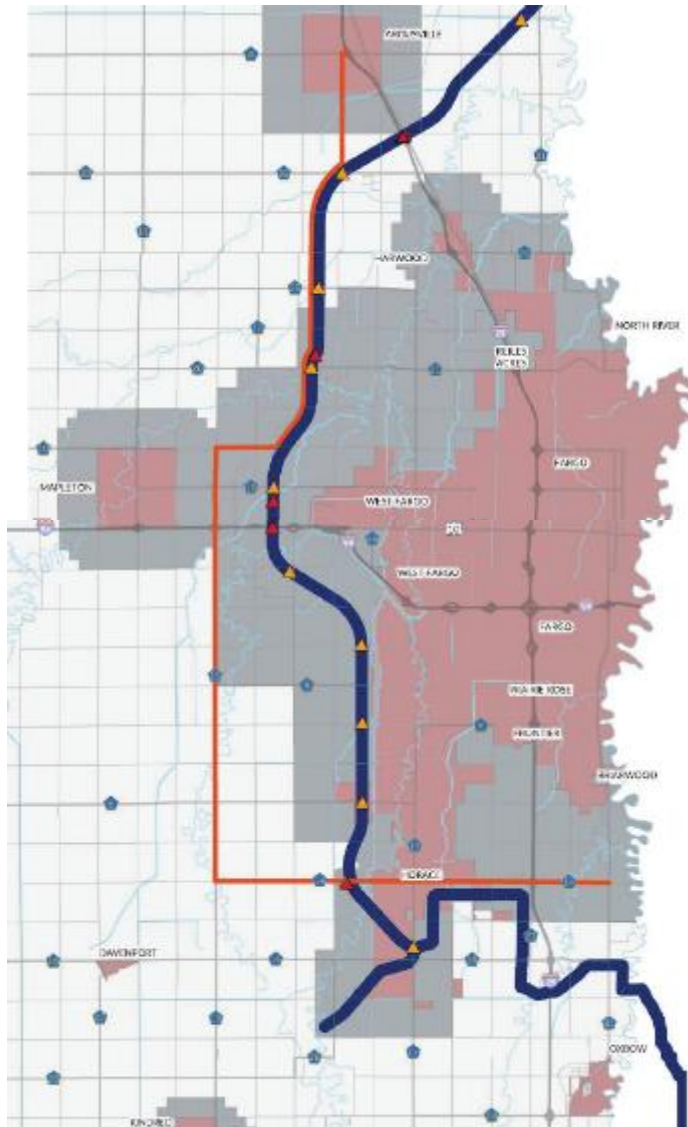


**Road Advisory Meeting
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**MetroCOG Interstate Operations
Study**

Cass County Highway Department

MetroCOG Interstate Operations Study




- MetroCOG is conducting an Interstate Operations Study that will conclude in late 2022 or early 2023
- The study includes identifying future ring route locations around the east and west sides of the metro area
- The ND ring route locations being studied include the FM Diversion alignment from Argusville to I-94 and the Cass 15/Cass 14 corridors

Diversion Bridges

Possible New Bridge Locations

- ▲ County and Township System
- ▲ Non-County System
- City Limits
- ET Boundary
- Approximate "Plan B" Diversion Alignment
- Potential Reliever Routes



**Road Advisory Meeting
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Other Business

Cass County Highway Department