



MEMORANDUM

**Highway
Department**

Jason Benson, P.E.
County Engineer

Thomas B. Soucy, P.E.
Deputy County Engineer

Blaine Laaveg
Superintendent

TO: Cass County Road Advisory Committee

FROM: Jason Benson, Cass County Engineer *JMB*

DATE: November 6, 2020

SUBJECT: Road Advisory Committee Meeting
November 16, 2020 at 2:00 p.m.

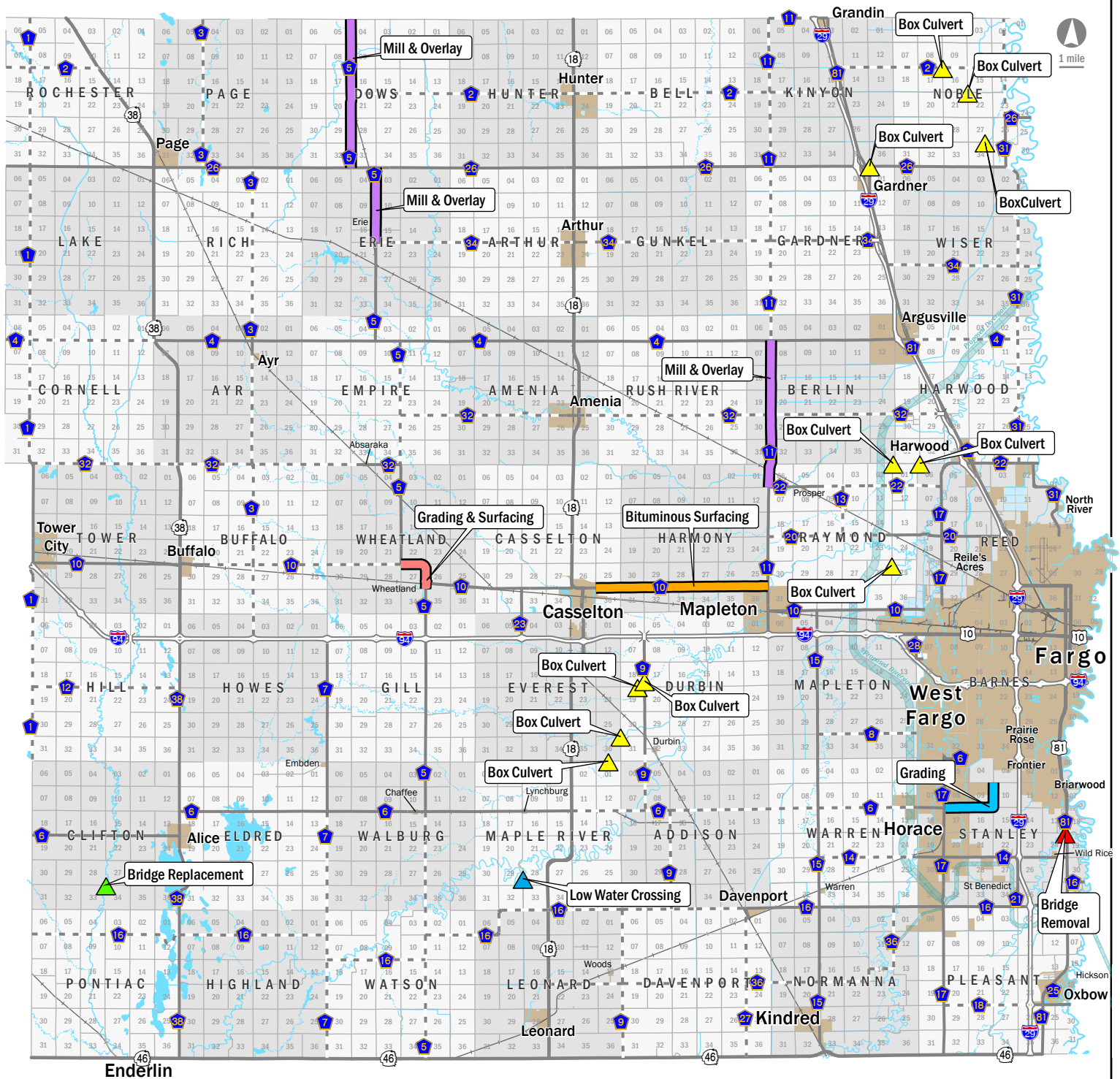
A Road Advisory Committee meeting has been scheduled for Monday, November 16, 2020 at 2:00 pm. This virtual meeting is through Microsoft Teams. Hopefully you received this email. The agenda is as follows:

2:00 – 2:15	Update of 2020 Construction Projects	Information
2:15 – 2:30	Proposed 2021 Construction Projects	Information
2:30 – 2:45	Hwy & Bridge Projects that will require coordination with ND Diversion Project	Information
2:45 – 2:55	Update on Old Business: Davenport Shop, Brewer Lake Road, and 65 mph Signs	Information
2:55 – 3:00	Other Business	
3:00	Adjourn	

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58078-1301

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Proposed 2021 Construction Projects



map updated November 2020

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

Cass County Highway Department

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**Road Advisory Meeting
November 16, 2020**

Cass County Highway Department

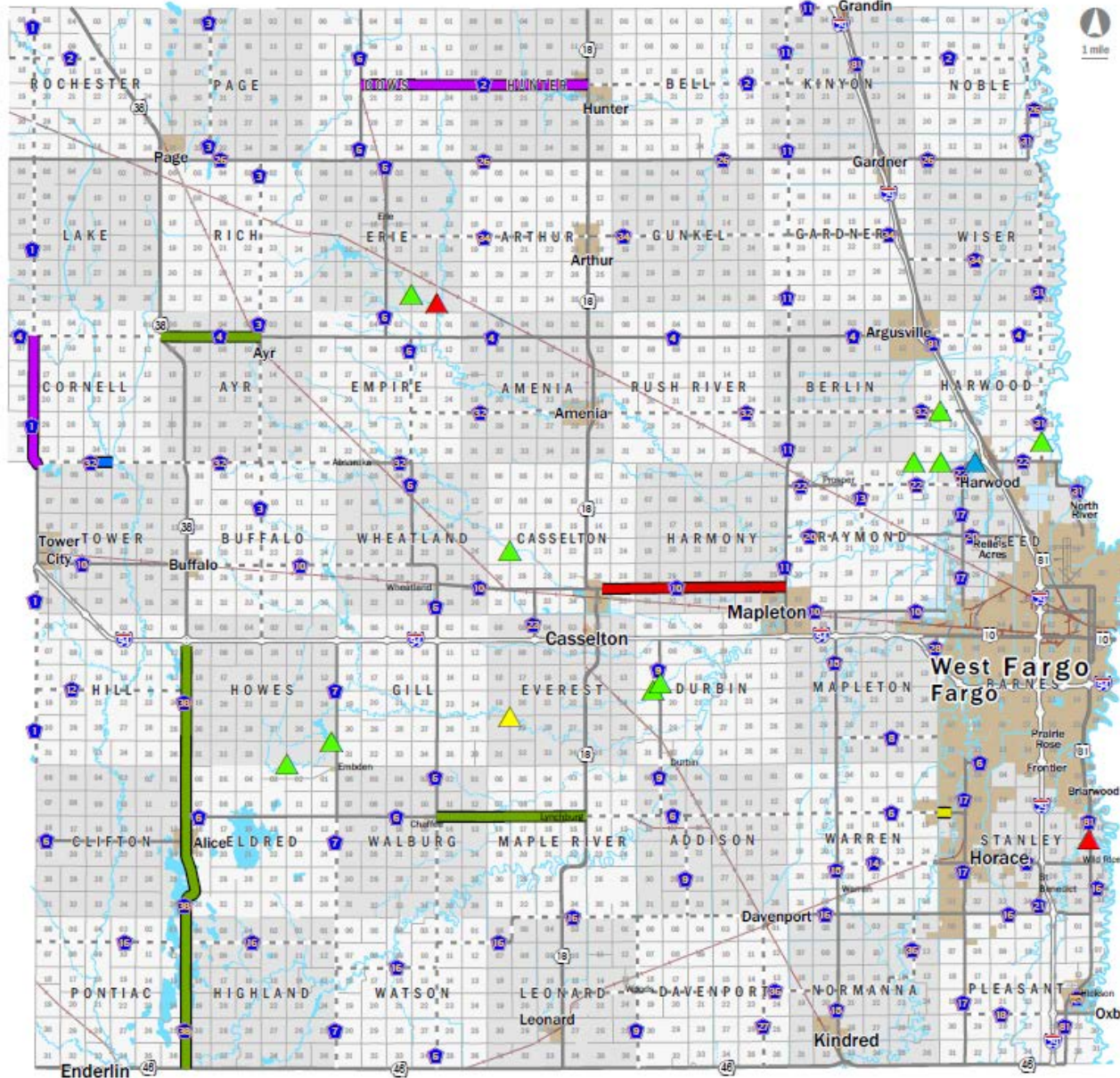


**Road Advisory Meeting
November 16, 2020**

**Update on 2020 Construction
Projects**

Cass County Highway Department

2020 Projects



Removed Projects

- Wheatland – Radial Tee – Safety Improvements - \$2.0 M

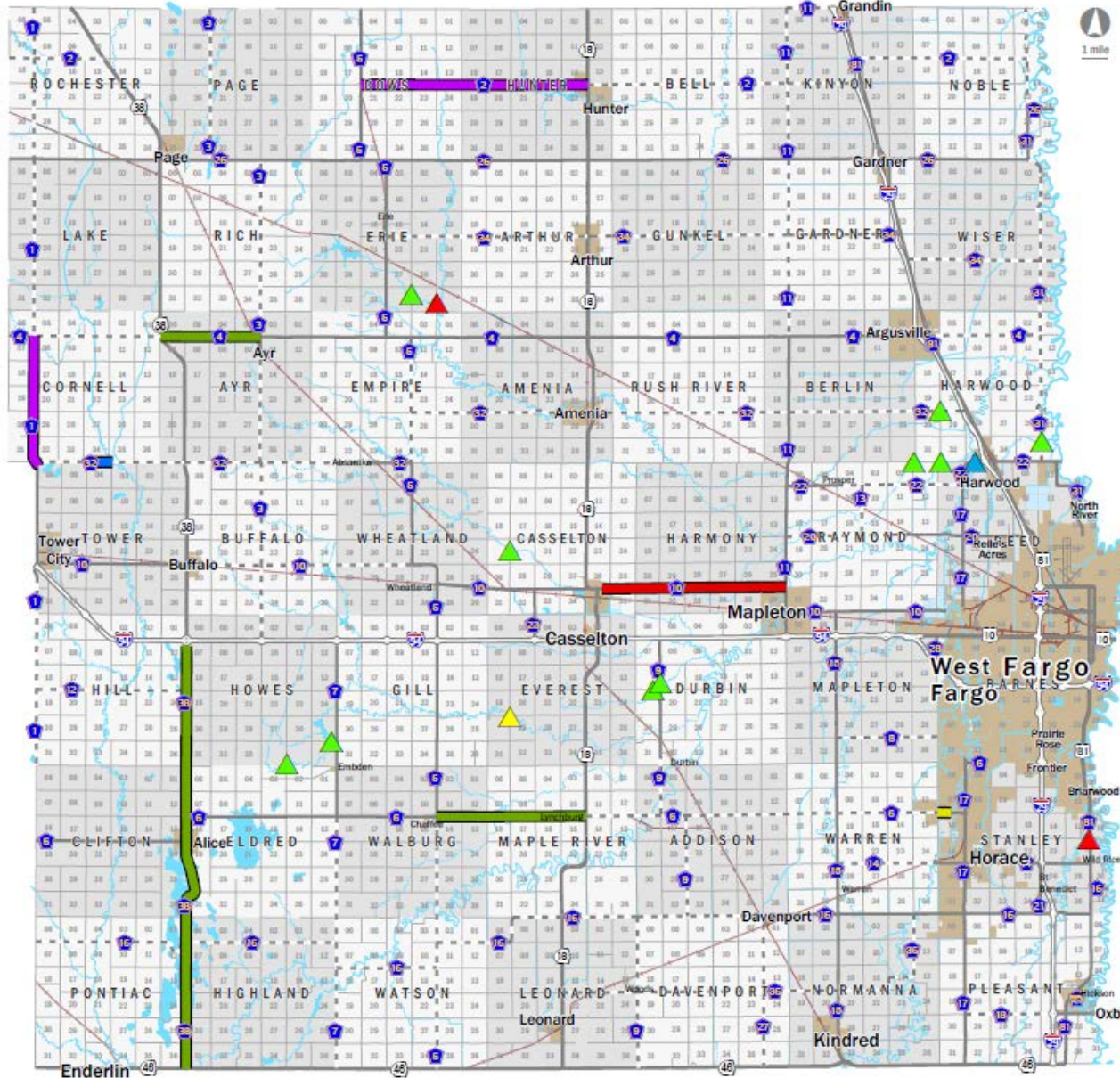
Added Projects

- Chip Seal – Green
 - C4, C6 & C38 - \$800K
- Subgrade Repair – Purple
 - C1 & C2 - \$2.75M
 - C2 Reshaped Slopes and Ditches for entire Project Length
- 19/20 Casselton Twp , 2 Howes Twp, C32 2 Buffalo/36 Ayr - Box Culverts - \$450K
- C17 Milling at 19th Ave N
 - \$40K
- Absaraka Interchange Inplace Milling

- Bituminous Surfacing
- Grading & Bituminous Surfacing
- Chip Seal
- Ditch Grading
- Subgrade Repair
- ▲ Deck Rehabilitation
- ▲ Deck Replacement
- ▲ Structure Replacement
- ▲ Structure Removal



2020 Projects



Completed 2020 Projects

- C10 – Casselton to C11
 - \$7.4 M Budget
- C6 – Bit. Surf.
 - \$425K
- C32 – Ditch Grading
 - \$150K
- Structures
 - \$1.365M

Not Completed 2020 Projects

- C9 & Sections 18/19 Durbin Twp Box Culverts.
 - Delayed Until 2021
- 2 Box Culverts in the Lower Rush West of Harwood
 - RRWRD Projects – SWC Funding
 - Potential 2021 Projects

- Bituminous Surfacing
- Grading & Bituminous Surfacing
- Chip Seal
- Ditch Grading
- Subgrade Repair
- ▲ Deck Rehabilitation
- ▲ Deck Replacement
- ▲ Structure Replacement
- ▲ Structure Removal



2020 Projects – Cass 10



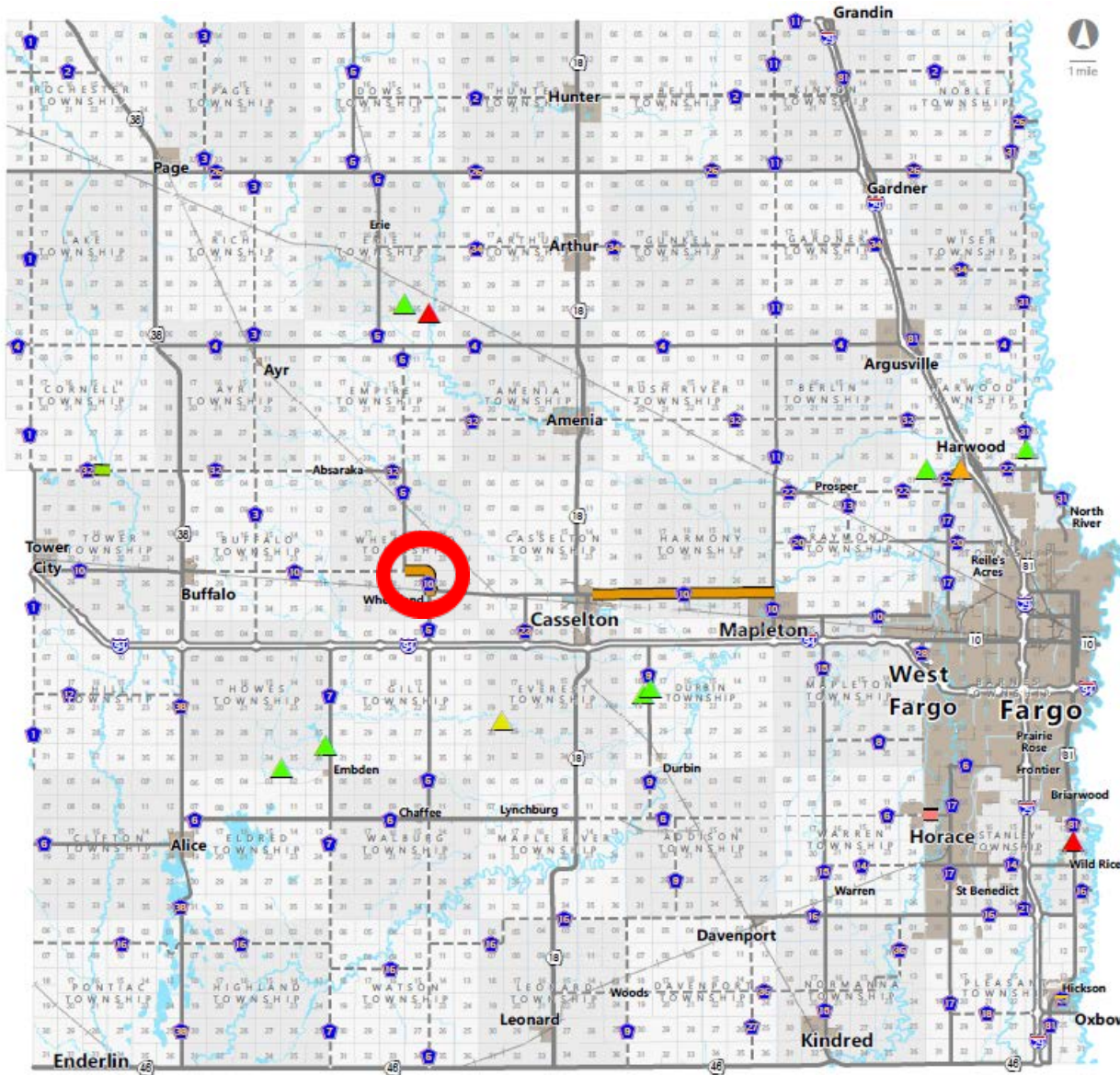
2020 Project



Hwy Parking Lot – Mill & Overlay

- Built in 2001
- Cracks in Pavement
- 2021 Budget
 - \$80K
- 2020 Quotes from Contractors
 - \$53,250 Northern Improvement
 - Completed in 2020
 - **Thank You** to the Road Advisory and County Commission.

Wheatland – Safety Improvement Project



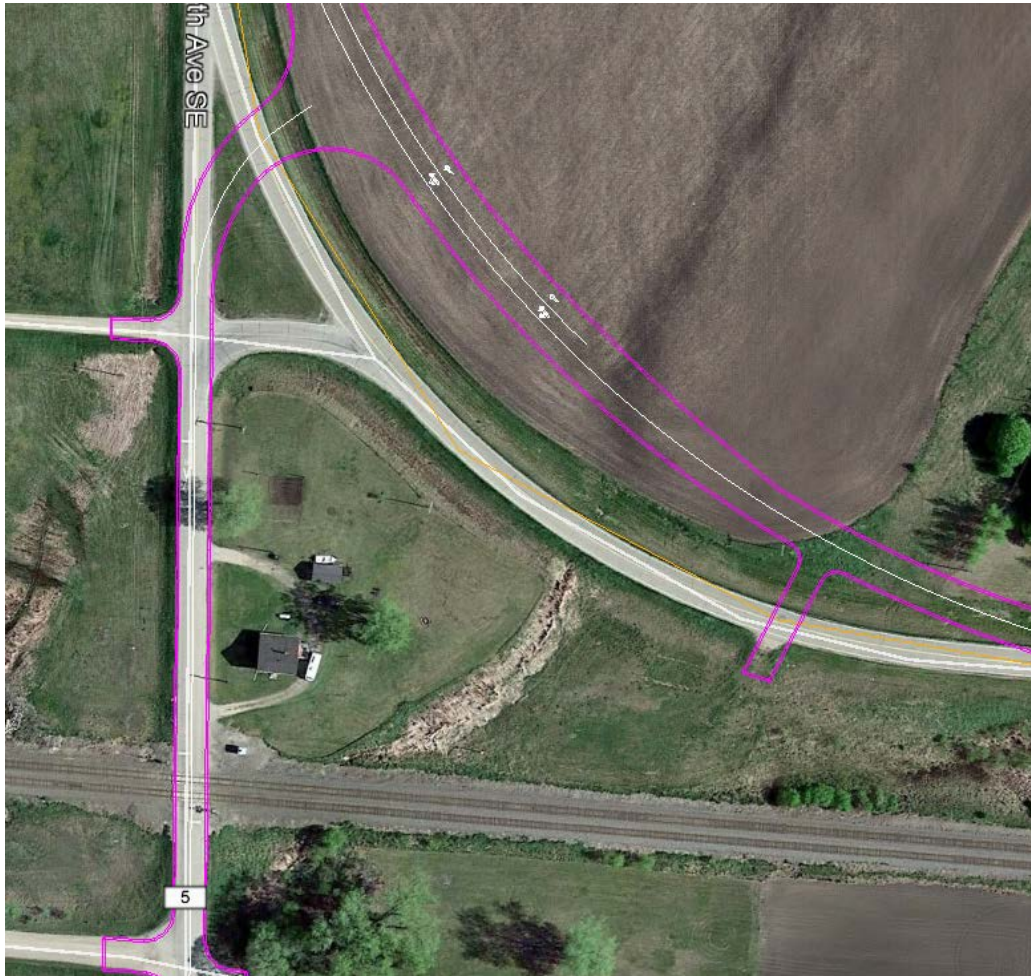
C5 & C10 Radial Tee – Grading & Paving

- Safety Improvements
- HSIP Grant \$1.3 M
- Total Est. Cost \$3.6 M
- Final Est. Cost \$2.3 M
- ROW & Drainage Issues
- Spring Bid Letting – (2/5/21) Construct in 2021
- House Buyout
- Foundation Issues
- \$55K Plus Demo
- Wetland Mitigation Acre

- ▲ Deck Rehabilitation
- ▲ Deck Replacement
- ▲ Structure Replacement
- ▲ Structure Removal
- Bituminous Surfacing
- Ditch Grading
- Grading & Bituminous Surfacing

Wheatland – Safety Improvement Project

- New alignment and 2020 house demo




Wheatland – Safety Improvement Project



- Railroad coordination for new drainage and culvert.



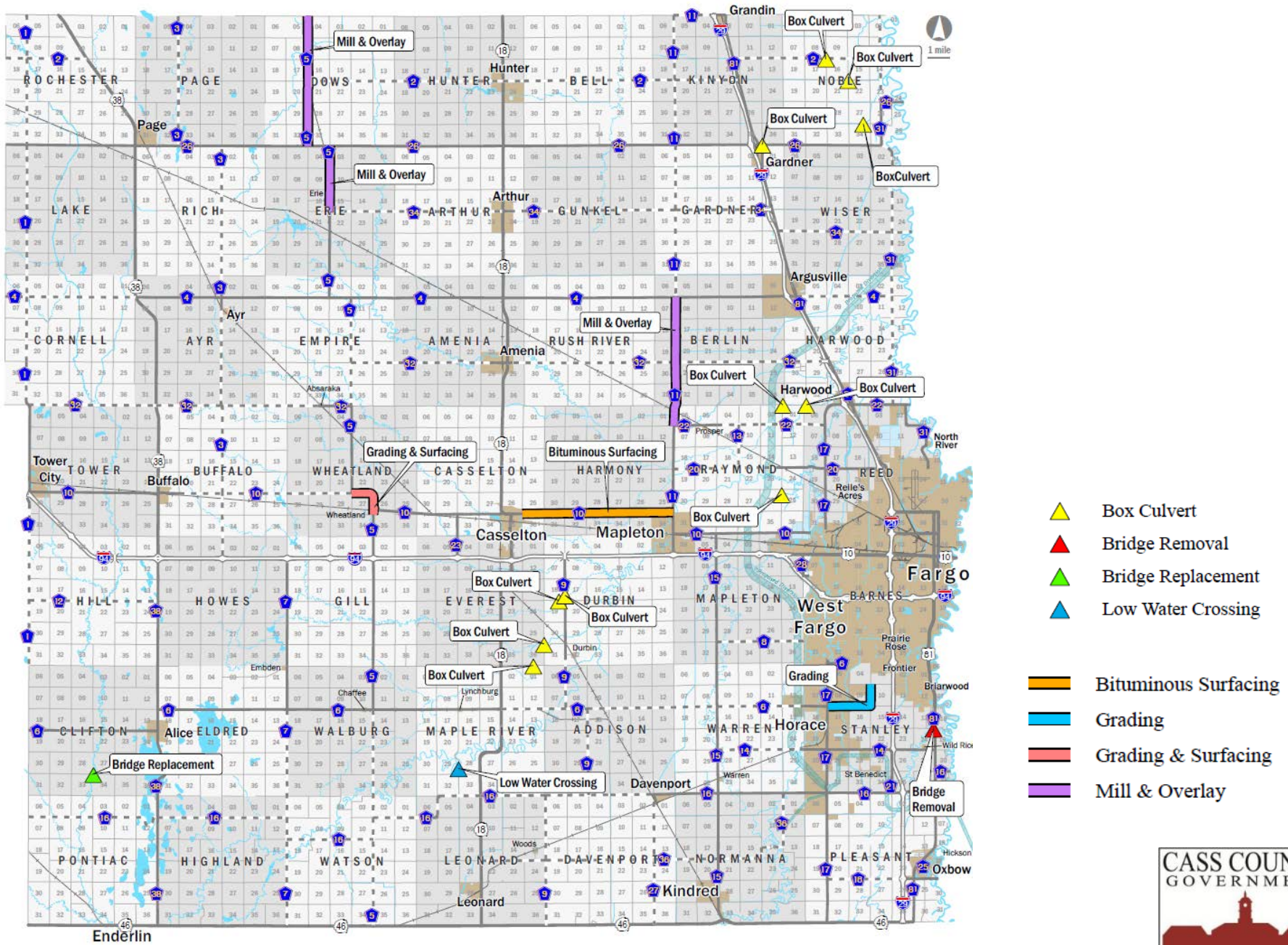



**Road Advisory Meeting
November 16, 2020**

Proposed 2021 Construction

Cass County Highway Department

2021 Proposed Projects





**Road Advisory Meeting
November 16, 2020**

**5 Year Hwy & Bridge Projects that
will require coordination with
ND Diversion Project**

Cass County Highway Department

Appendix 1

**2021 - 2025
5 Year Capital Improvement Plan
Proposed Highway Projects**

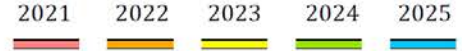
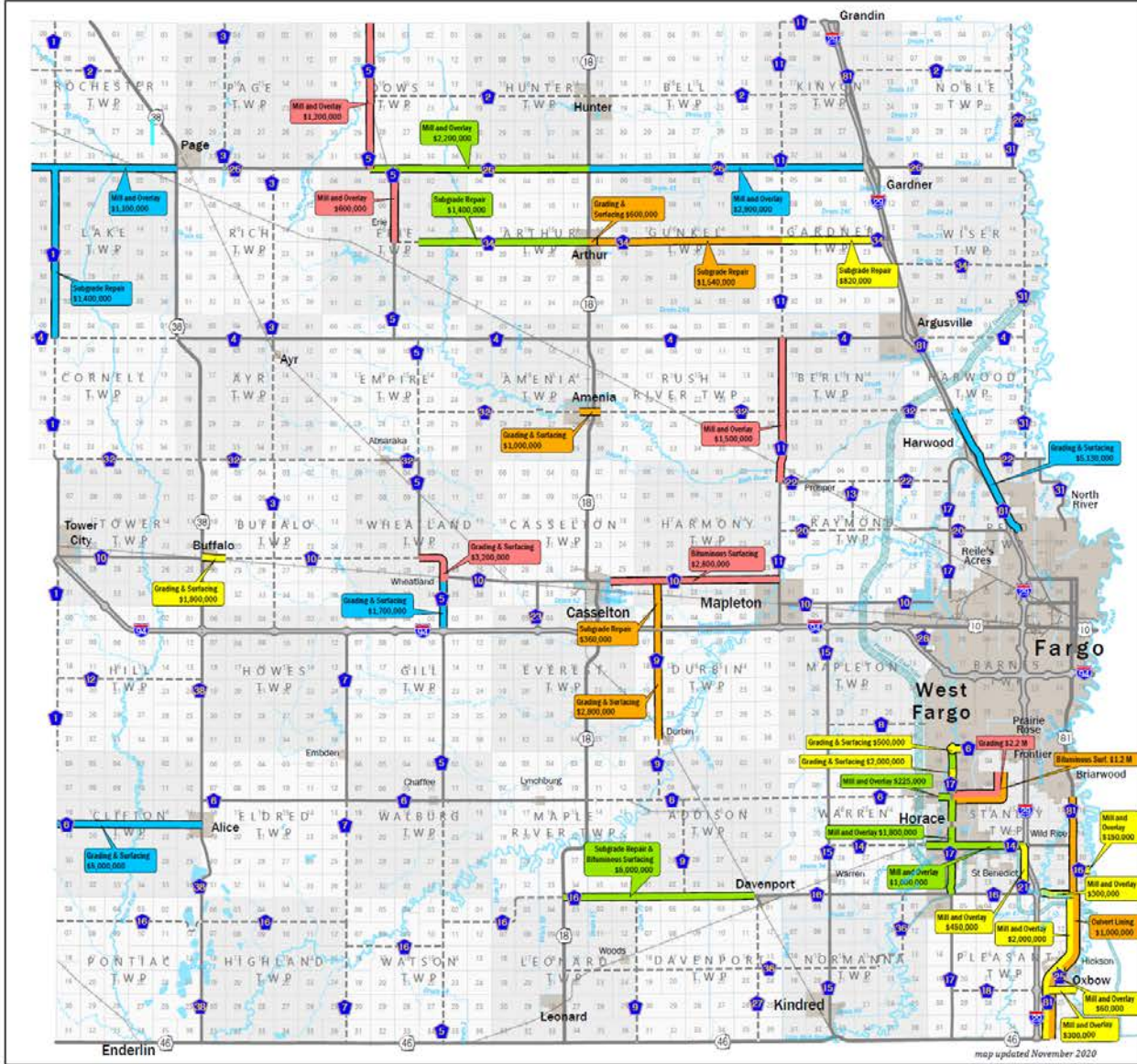


TABLE 5 - PROPOSED HIGHWAY IMPROVEMENTS

HWY	LOCATION	PROJECT TYPE	FUNDING	YEAR	COST
10	Cassidon - 15th St to Hwy 11	Bituminous Surfacing	Local	2021	\$3,800,000
New 6	Hwy 17 to 45th St. & 45th St to 64th Ave E	Grading	Local	2021	\$2,200,000
5 & 10	Hwy 5 & Hwy 10 Radial Tie Intersection & 5th St to	Grading & Surfacing	Federal	2021	\$3,200,000
11	Hwy 4 to Hwy 22	Mill and Overlay	Federal	2021	\$1,300,000
5	Trail Co. Lane to Hwy 26	Mill and Overlay	Local	2021	\$1,200,000
New 6	Hwy 26 to Hwy 34	Mill and Overlay	Local	2021	\$600,000
New 6	Hwy 17 to 45th St. & 45th St to 64th Ave E	Bituminous Surfacing	Local	2022	\$1,200,000
9	Hwy 10 to 194	Subgrade Repair	Local	2022	\$160,000
9	194 to Durbin	Grading & Surfacing	Local	2022	\$2,800,000
32	State Hwy 18 West through Amenia	Grading & Surfacing	Local	2022	\$1,000,000
34	State Hwy 18 East through Arthur	Grading & Surfacing	Local	2022	\$600,000
34	Arthur to Hwy 11	Subgrade Repair	Local	2022	\$1,540,000
81	76th Ave S to State Hwy 46	Culvert Lining	Local	2022	\$1,000,000
6	CL7 Roundabout E 1800'	Grading & Surfacing	Local	2023	\$900,000
10	State Hwy 38 through Buffalo 1 Mile East	Grading & Surfacing	Local	2023	\$1,900,000
16	129 to Hwy 81	Mill and Overlay	Local	2023	\$300,000
16	Hwy 81 to Red River Bridge	Mill and Overlay	Local	2023	\$1,650,000
17	Hwy 17 to 64th Ave S - Roundabout	Grading & Surfacing	Local	2023	\$5,000,000
17	129 to Red River Bridge	Mill and Overlay	Local	2023	\$3,000,000
21	Hwy 14 to Hwy 14	Mill and Overlay	Local	2023	\$450,000
25	Hwy 81 to 84 Miles S. through Hickson	Mill and Overlay	Local	2023	\$600,000
34	Hwy 11 to 129	Subgrade Repair	Local	2023	\$820,000
81	Hwy 16 W to ST Hwy 46	Mill and Overlay	Local	2023	\$2,200,000
6	Shyenne Division to Hwy 17	Mill and Overlay	Local	2024	\$238,000
14	Shyenne River to 129	Mill and Overlay	Local	2024	\$1,000,000
16	State Hwy 18 to Dawsonport	Subgrade Repair & Bituminous Surf.	Local	2024	\$6,000,000
17	52nd Ave S Roundabout to Horace & Horace to Hwy 16	Mill and Overlay	Local	2024	\$1,900,000
26	Hwy 17 to 64th Ave S - Roundabout	Grading & Surfacing	Federal	2024	\$2,300,000
34	State Hwy 18 to 1 Mile East of CS	Subgrade Repair	Local	2024	\$1,400,000
1	Hwy 4 to Hwy 26	Subgrade Repair	Local	2025	\$1,400,000
5	Wheatland to 194	Grading & Surfacing	Local	2025	\$1,700,000
6	Barnes Co Lane to Hwy 38	Grading & Surfacing	Local	2025	\$5,000,000
26	Barnes Co Lane to ST Hwy 38	Mill and Overlay	Local	2025	\$1,200,000
26	State Hwy 18 to 129	Mill and Overlay	Federal	2025	\$9,000,000
81	Hwy 20 to Hwy 32	Grading & Surfacing	Local	2025	\$5,310,000

Note: Years to be completed are illustrative and subject to change and approved annually and/or as necessary by the Road Advisory Committee.



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Appendix 2

2021 - 2025 5 Year Capital Improvement Plan Proposed Structure Projects

2021 2022 2033 2024 2025

Major Structure ● Minor Structure ● ● ● ●

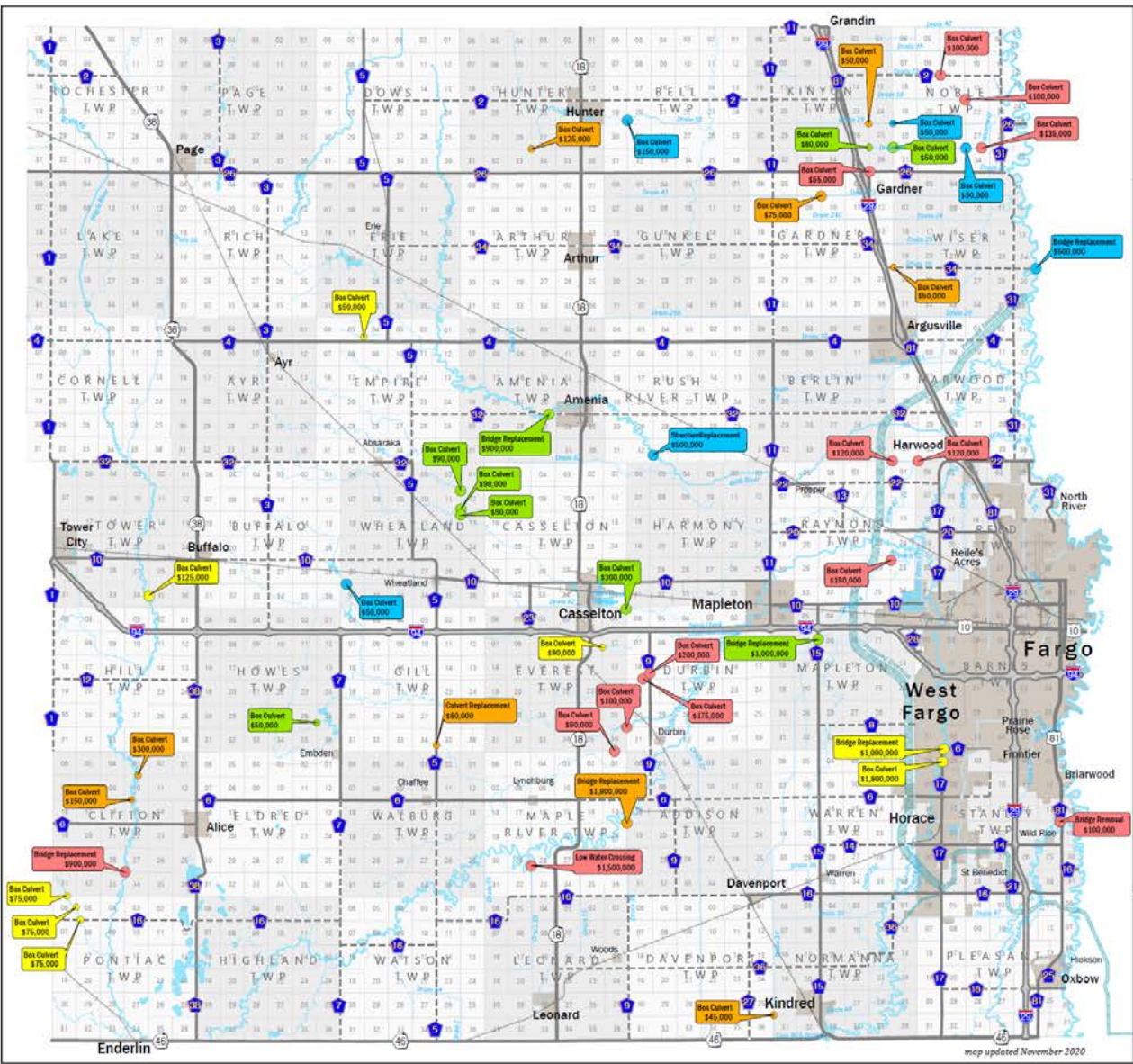


TABLE 7 - PROPOSED BRIDGE IMPROVEMENTS

HWY	LOCATION	PROJECT TYPE	FUNDING	STRUCTURE TYPE	YEAR	COST
	15/16 Noble - North Cass W/D Drain 18	Box Culvert	Local	Major	2021	\$100,000
26	C26 - 31/34 Kaysen Twp - Dr 22	Box Culvert	Local	Major	2021	\$55,000
2	C2 - 16/17 Noble Twp - Drain 31	Box Culvert	Local	Major	2021	\$100,000
	27/34 Noble - North Cass W/D Drain 32	Box Culvert	Local	Major	2021	\$15,000
	25-26 Raymond Twp - Drain 14	Box Culvert	Local	Major	2021	\$150,000
	11-13 Harwood Twp - Lower Branch of the Rush River	Box Culvert	Local	Major	2021	\$110,000
2	Raymond - 26 Harwood Twp - Lower Branch of the Rush River	Box Culvert	Local	Major	2021	\$120,000
	13/24 Casselton Twp - Wild Fire River	Bridge Replacement	Local	Major	2021	\$100,000
	24 Everett/31 Durbin - Buffalo Creek	Box Culvert	Local	Major	2021	\$100,000
	16 Everett - 1 Maple River - Tributary of Buffalo Creek	Box Culvert	Local	Major	2021	\$80,000
9	C9 - 17/18 Durbin Township - Tributary of Swan Creek	Box Culvert	Local	Major	2021	\$300,000
	18/19 Durbin Twp - Tributary of Swan Creek	Box Culvert	Local	Major	2021	\$175,000
	27/34 Clifton - Maple River	Bridge Replacement	Local	Major	2021	\$900,000
	28/29 Maple River Twp - Maple River	Low Water Crossing	Federal	Major	2021	\$1,000,000
	30/31 Somerset Twp - Dr 24	Box Culvert	Local	Minor	2022	\$40,000
	9/10 Gardner - North Cass W/D - Drain 25	Box Culvert	Local	Major	2022	\$75,000
	33/34 Hunter Twp - Elm River Trlb.	Box Culvert	Local	Minor	2022	\$125,000
	15 Gardner/10 Wilder Twp - Dr 26	Box Culvert	Local	Minor	2022	\$50,000
	25/26 Kaysen Township - Drain 19	Box Culvert	Local	Minor	2022	\$50,000
	10/15 Clifton Township on Maple River	Box Culvert	Local	Minor	2022	\$150,000
	7/20 Clifton Township on Maple River	Box Culvert	Local	Minor	2022	\$900,000
5	C5 - 14/15 Gill Twp	Culvert Replacement	Local	Minor	2022	\$50,000
	18-19 Addison / 19-24 Maple River - Maple River	Bridge Replacement	Federal	Major	2022	\$1,800,000
	11/12 Everett Township - Wheatland Channel	Box Culvert	Local	Minor	2023	\$90,000
	34/35 Tower Township on Maple River	Box Culvert	Local	Major	2023	\$125,000
	4/5 Empire Township on Tributary of the Rush River	Box Culvert	Local	Minor	2023	\$50,000
16	8/8 Frontier Twp - Tributary of the Maple River	Box Culvert	Local	Minor	2023	\$75,000
	5/5 Frontier Twp - Tributary of the Maple River	Box Culvert	Local	Minor	2023	\$75,000
	6 Frontier & 11 Clifton Twp - Tributary of the Maple River	Box Culvert	Local	Minor	2023	\$75,000
4	C4 - 6 Stanley/32 Barnes Twp - Shawnee River	Bridge Replacement	Local	Major	2023	\$1,000,000
17	C17 - 1/8 Stanley Twp - Shawnee River	Box Culvert	Local	Major	2023	\$1,800,000
	28 Kaysen/31 Noble - Dr 32 - North	Box Culvert	Local	Major	2024	\$50,000
	23-28 Kaysen Twp	Box Culvert	Local	Minor	2024	\$90,000
	31/32 Kaysen Twp - Dr 32	Box Culvert	Local	Minor	2024	\$50,000
	11-12 Wheatland Twp	Box Culvert	Local	Major	2024	\$90,000
	13-14 Wheatland Twp	Box Culvert	Local	Major	2024	\$90,000
32	C32 - 22/27 Amelia Twp - Rush River	Bridge Replacement	Local	Major	2024	\$900,000
15	C15 - 6/9 Mapleton Township on Drain 14	Bridge Replacement	Local	Major	2024	\$1,000,000
	1 Everett/14 Durbin Township - Swan Creek	Box Culvert	Local	Major	2024	\$250,000
	33/34 Noble - Dr 33 - North	Box Culvert	Local	Major	2025	\$50,000
	32/33 Rush River - Rush River	Structure Replacements	Local	Major	2025	\$500,000
	19/20 Bell - S Branch of Elm River	Box Culvert	Local	Minor	2025	\$150,000
	30-31 Wheatland Twp - Buffalo Creek Trlb.	Box Culvert	Local	Minor	2025	\$50,000
	25 Kaysen/32 Noble Township - Drain 19	Box Culvert	Local	Major	2025	\$150,000
34	C34 - Georgetown Box Culvert Bridge	Bridge Replacement	Local	Major	2025	\$600,000

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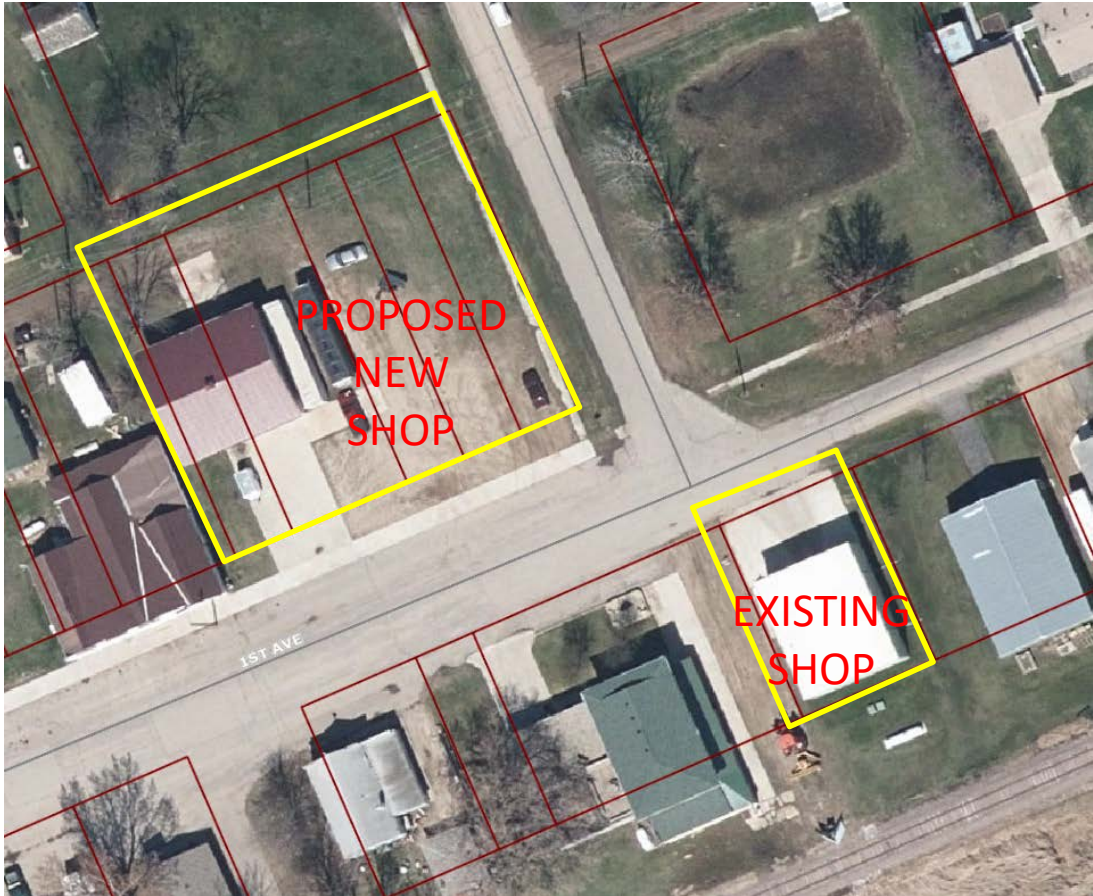


**Road Advisory Meeting
November 16, 2020**

**Davenport Shop Options
Brewer Lake – Erie Twp. Road
65 MPH Speed Changes**

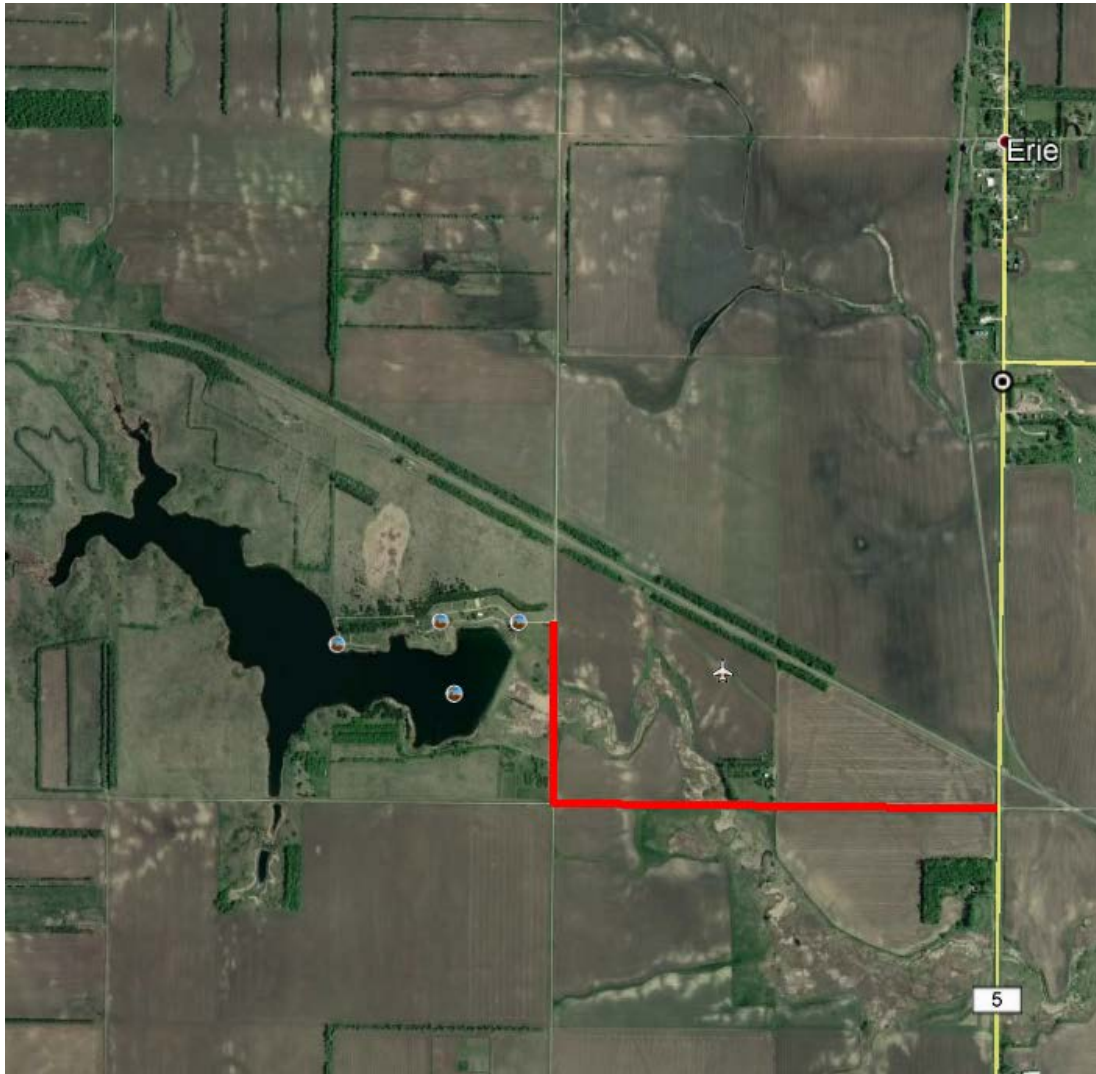
Cass County Highway Department

Davenport Shop



- Tight Quarters
- Path Forward - Secure ownership of building
- Use the budgeted \$400K to purchase in 2020 for approximately \$155K

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.
 - Blade 1 per moth
- Winter snowplowing issues
- Connects to a County Owned park therefore should this be a County Road?

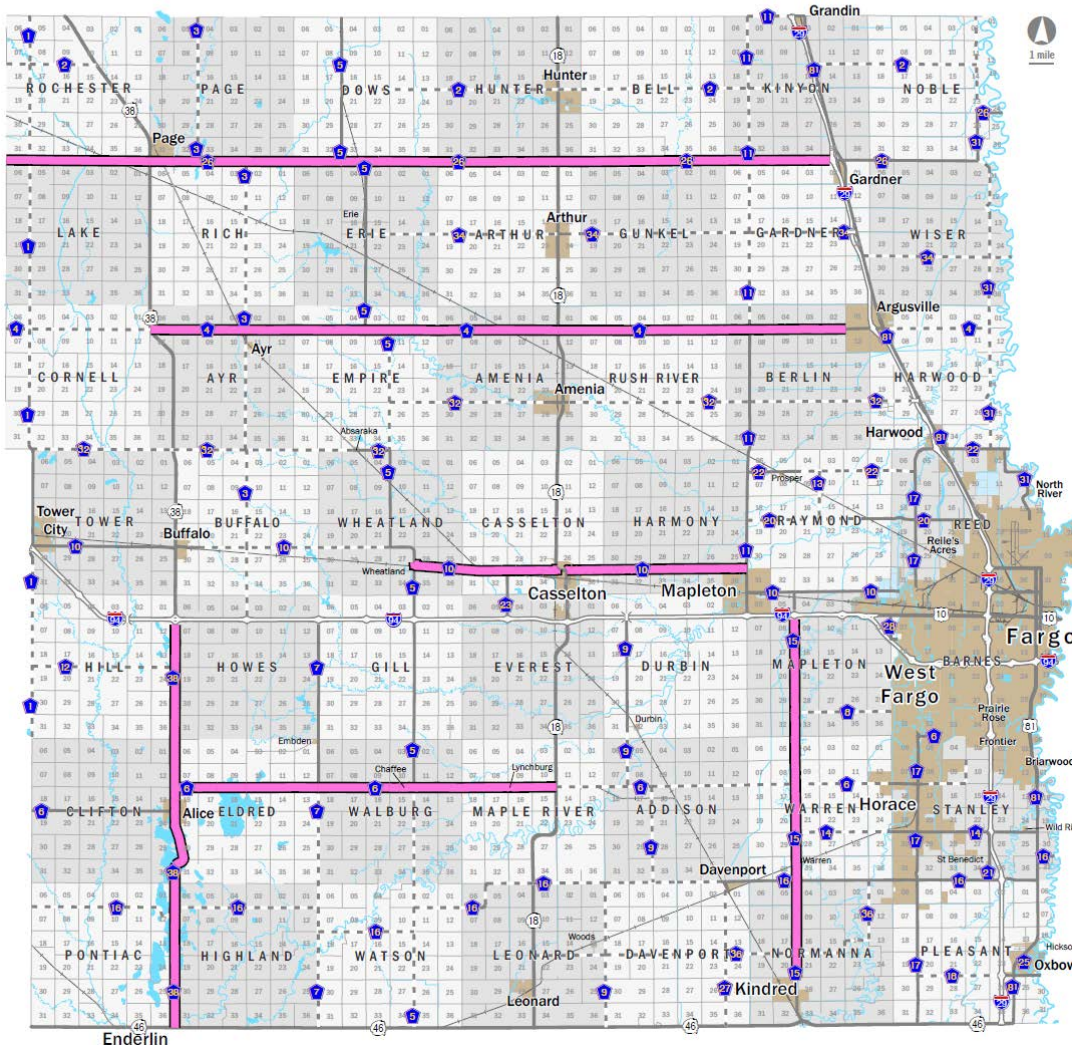
- Options
 - Do Nothing
 - Repair Soft Spots – Assist Township with Blading
 - Take it over as a county road and potentially pave the access road and campground.

65 MPH Routes

Cass County Approved 65 MPH Highways

Commission Approved Highways:

- C4 – State Hwy 38 to I-29
- C6 – C38 to State Hwy 18
- C15 – State Hwy 46 to I94
- C26 – Barnes Co. to I29
- C38 – State Hwy 46 to I-94
- C-10 – Wheatland to C11





**Road Advisory Meeting
November 16, 2020**

Other Business

Cass County Highway Department