


**Road Advisory Meeting
March 15, 2021**

Cass County Highway Department



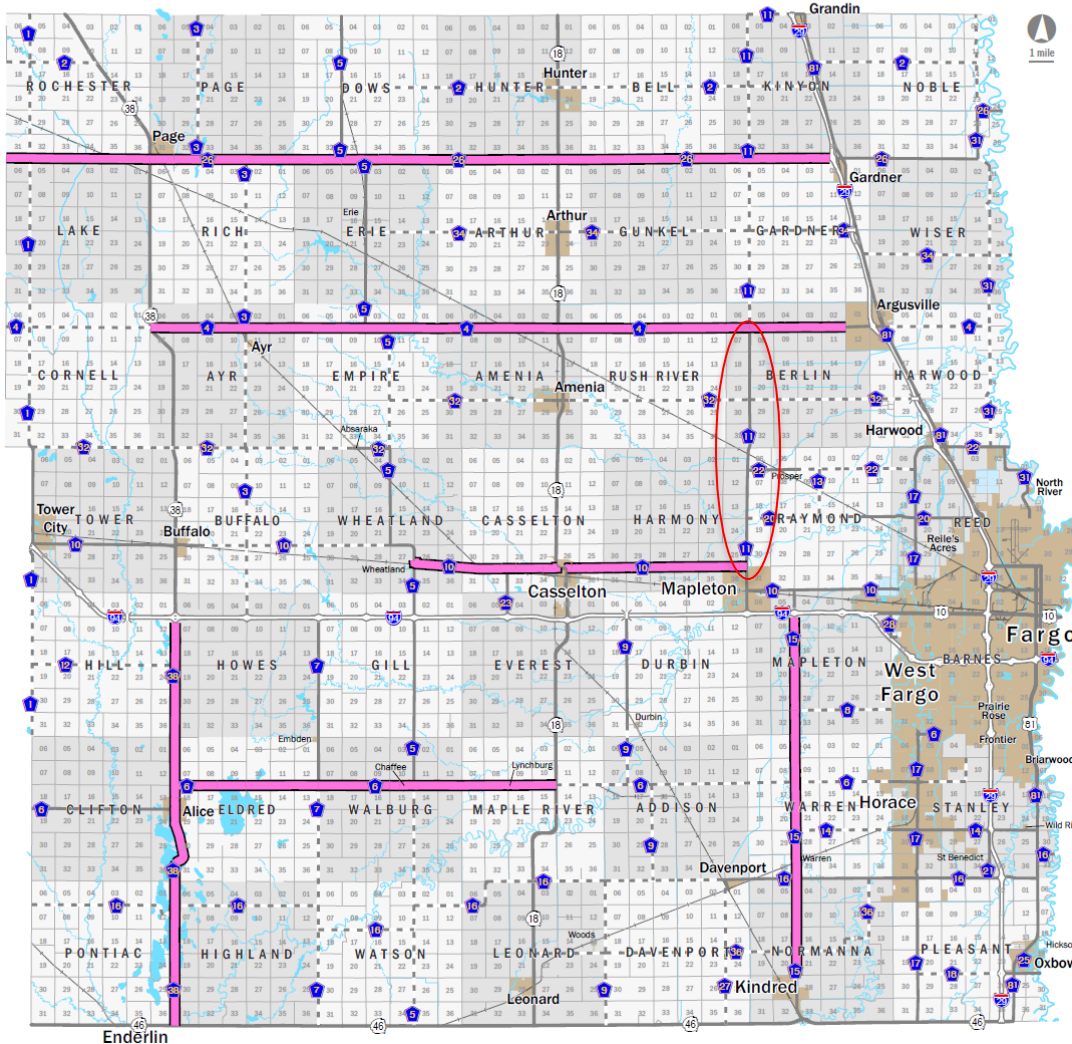
**Road Advisory Meeting
March 15, 2021**

65 MPH Update

Cass County Highway Department

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
- C10 – Wheatland to C11
- C11 – C10W to C4
 - Change Speed Limit to 65 mph?



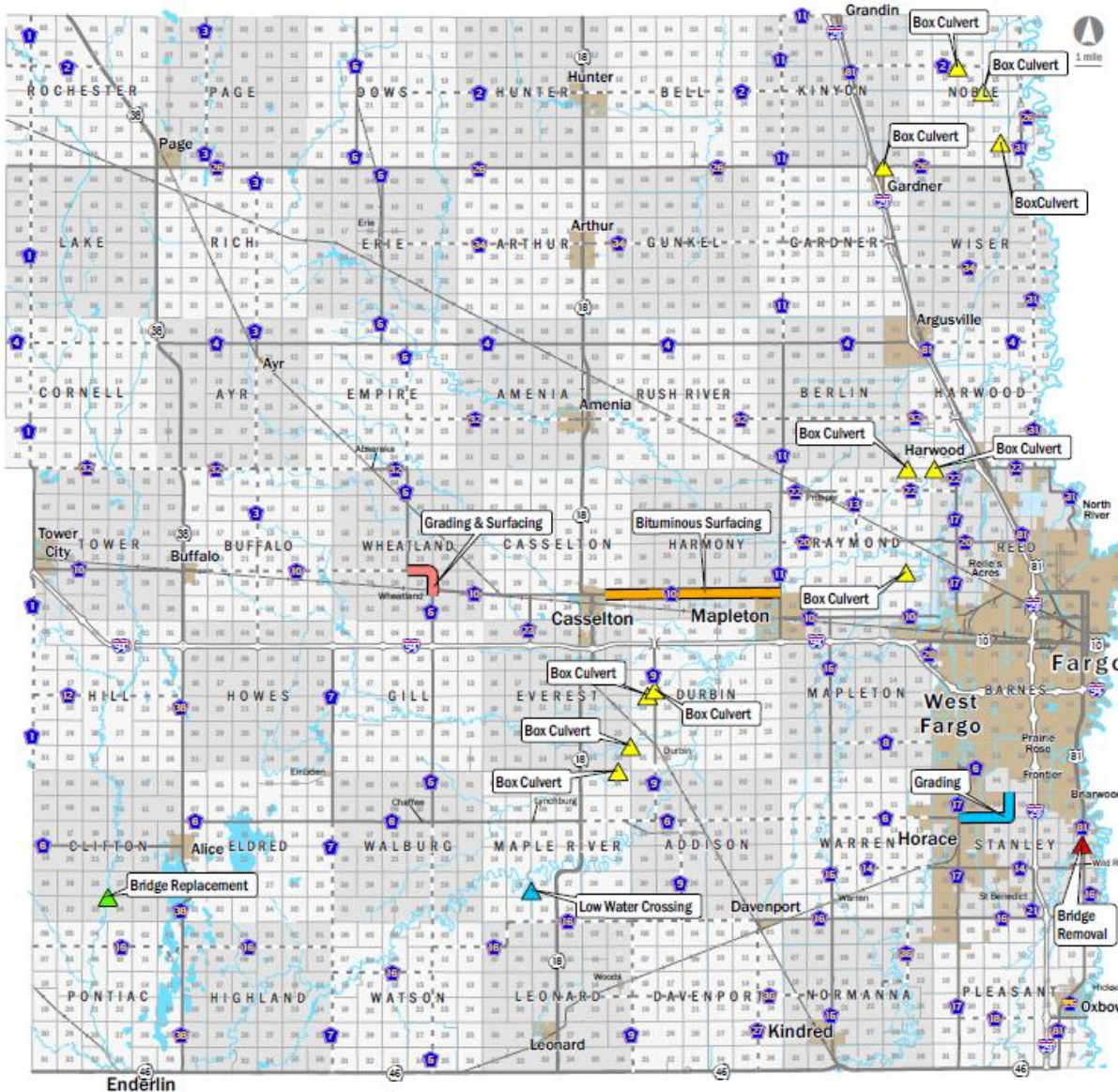
A photograph of a two-lane asphalt road stretching into the distance. The road has a yellow center line and white edge lines. On the left side, there is a line of green trees. On the right side, there is a large, flat, golden-brown field, possibly a harvested crop field. The sky is overcast and grey. The text is overlaid on the upper half of the image.

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**2021 Proposed Construction
Projects**

Cass County Highway Department

2021 Budgeted Road & Bridge Projects – Last Fall



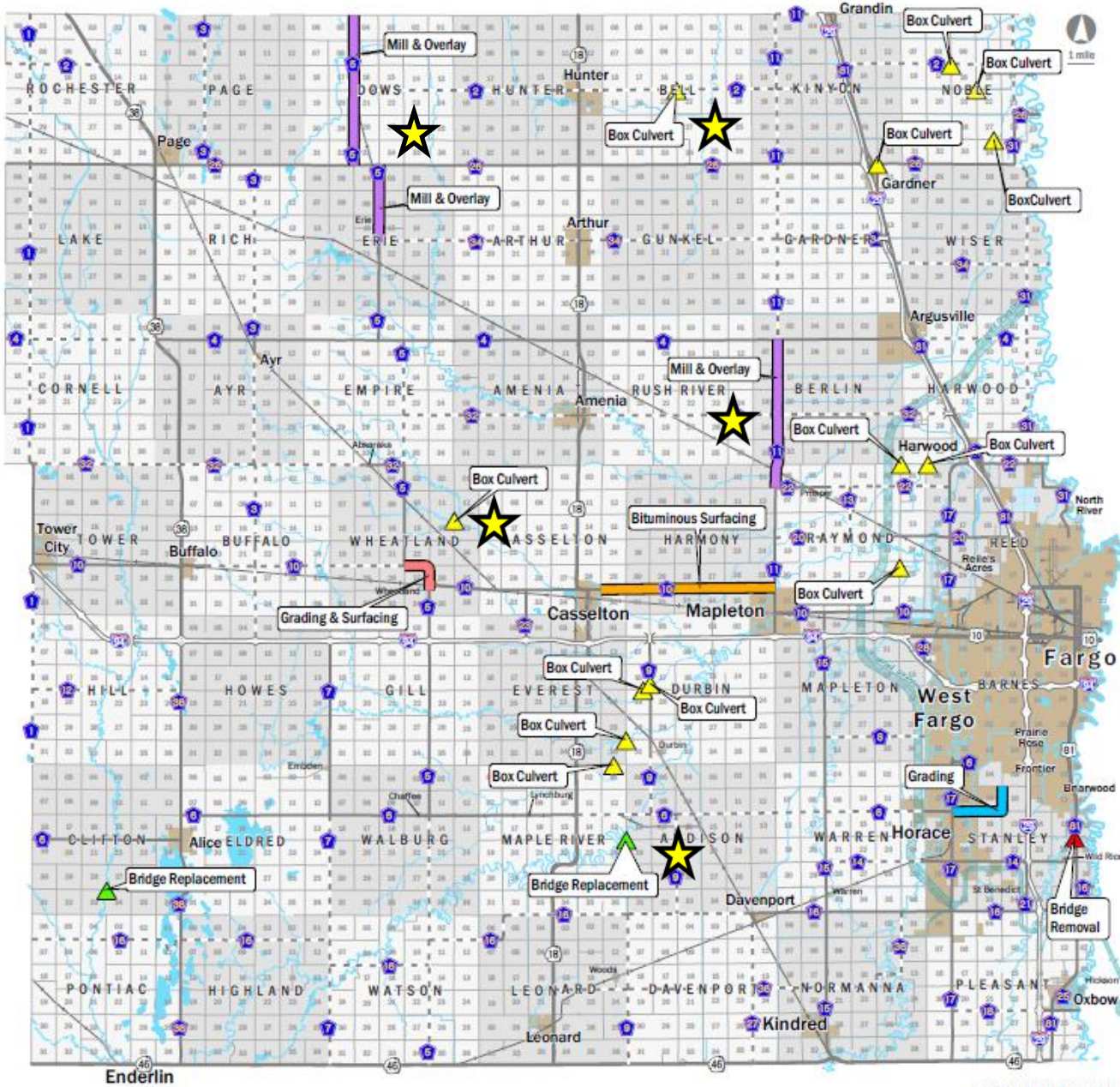
- Road Projects
 - \$8,200,000
- Bridge Projects
 - \$2,635,000
- Total Budget
 - \$10,835,000

2021 Road & Bridge Projects – Federal Funding

	2020 Budget	2021 Updated Budget	Difference
Fed. Road \$	\$1,171,254	\$4,799,588	\$3,628,334
Fed. Bridge \$	\$1,200,000	\$2,240,000	\$1,040,000
Totals	\$2,371,254	\$7,039,588	\$4,668,334
THE \$1,171,254 IS GRANT SAFETY FUNDS FOR THE WHEATLAND PROJECT			
ADVANCE 3 YEARS SC FUNDS			
THE \$3,628,334 AMOUNT ALSO INCLUDES \$348,298.15 OF CO-VID RELIEF FUNDING			



Proposed 2021 Projects



- Road Projects
 - \$6,883,028 (\$8,200,000)
 - - \$1,316,972

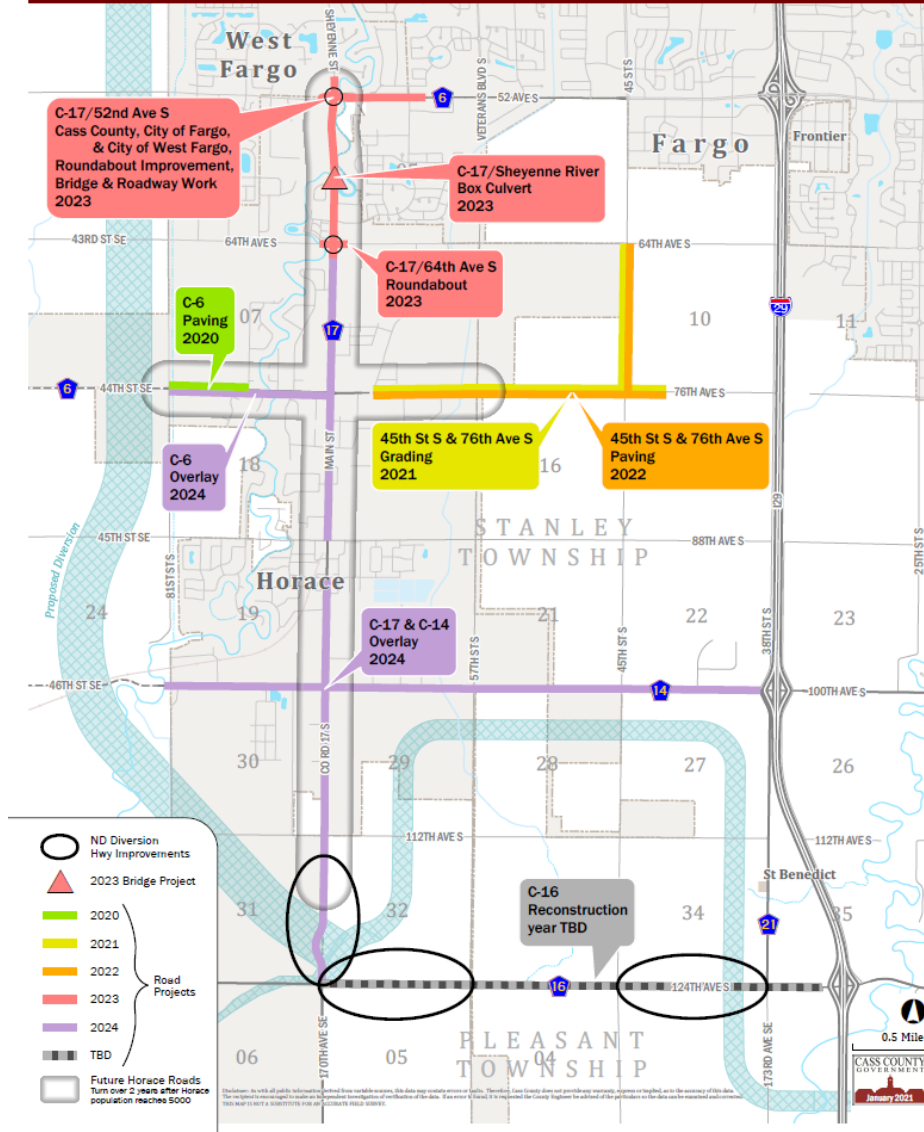
- Bridge Projects
 - \$3,545,900 (\$2,635,000)
 - + \$910,900

- Total Budget
 - \$10,428,928 (\$10,835,000)
 - - \$406,072




Horace Area Transportation Improvements

Exhibit A HORACE AREA TRANSPORTATION IMPROVEMENTS



- 2021 - 76th Ave & 45th St Grading - \$2.2 M
- 2022 - 76th Ave & 45th St Paving - \$1.4 M
- 2023 - 52nd Ave Road & Bridge - \$1.5M, 64th Ave Roundabout - \$2.0 M, C17 Sheyenne R. Bridge - \$2.2 M = \$5.7 M Total
- 2024 - C6, C14 & C17 Overlay - \$3.025 M
- Road Projects
 - \$8.9 M
- Bridge Projects
 - \$3.2 M
- Total \$12.1 M



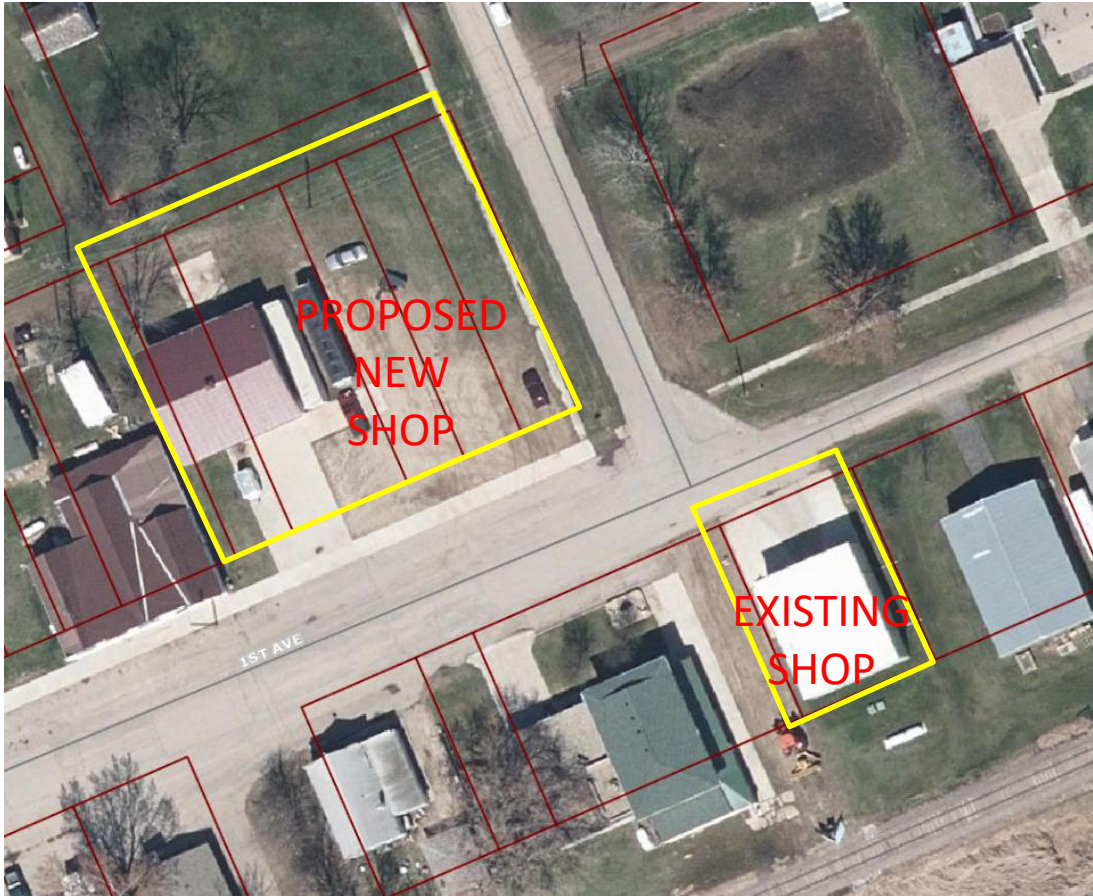


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Davenport Shop Update

Cass County Highway Department

Davenport Shop



- Purchased New Building & Lot last Fall \$150K
- Complete construction of new location in the summer of 2021.
- Sell old building \$??
- Potential buyers are KNDPA (Kindred, Normanna Twp, Davenport Twp, Pleasant Twp, Addison Twp.) & several private parties.

Davenport Shop



- **Foundation Work**

Davenport Shop



- Erecting Steel

Davenport Shop



- Framework Complete

Davenport Shop



- **Inside Looking North**

Davenport Shop




- Inside Looking South

Davenport Shop



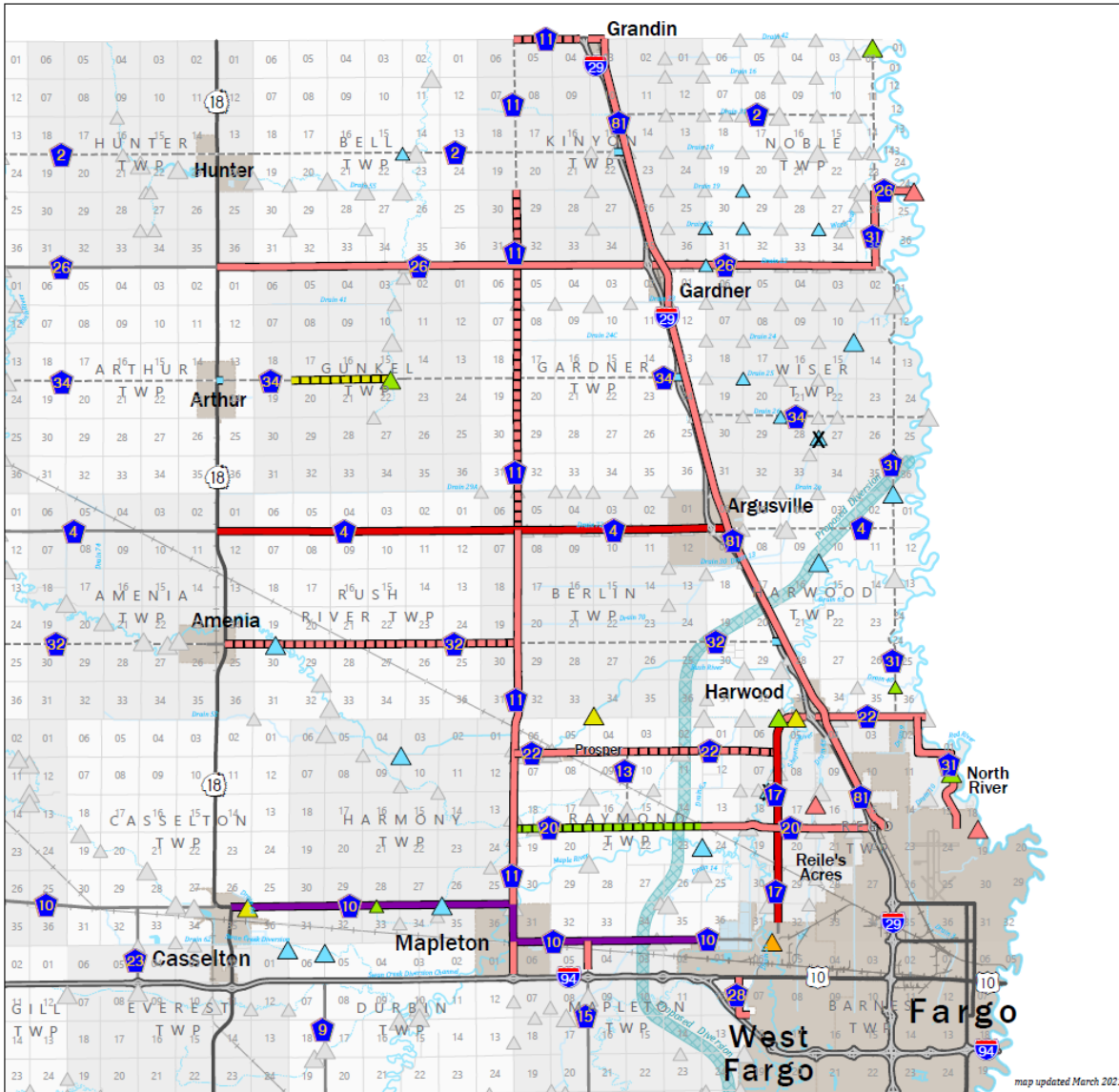
- Looking SW



**Road Advisory Meeting
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2000-2020 Road & Bridge Projects

Cass County Highway Department



map updated March 2021

Appendix 19a

2000 - Present Construction Project History northeast quadrant

County Structures

cost per structure in this quadrant

Minor	Major	Removed	Cost
▲ (10)	▲ (9)	✘ (2)	under \$100K
▲ (2)	▲ (4)	✘ (0)	\$100K - \$250K
▲ (0)	▲ (3)	✘ (0)	\$250K - \$500K
▲ (0)	▲ (0)	✘ (0)	\$500K - \$1M
▲ (0)	▲ (2)	✘ (0)	over \$1M

Projects also occurred on structures currently in Fargo (1) and West Fargo (2) that are displayed in the map but are not included in the counts above. Since being constructed by Cass County, these 3 structures have been turned over to those cities.

County Highways

cost per highway in this quadrant

Gravel	Paved	Cost
▬	▬	under \$100K
▬	▬	\$100K - \$250K
▬	▬	\$250K - \$5000K
▬	▬	\$500K - \$1M
▬	▬	\$1M - \$5M
▬	▬	\$5M - \$10M
▬	▬	over \$10M

Structure Proj. Type	Proj. Completed	# of Structures	%	Cost
Bridge Removals	2	205 (139 minor/66 major)	N/A	\$50,286
Bridge Repairs	10	205 (139 minor/66 major)	4.88%	\$432,476
New Bridges	27	205 (139 minor/66 major)	13.17%	\$18,571,810
				Total Bridge: \$19,054,572

Road Project Type	Miles Worked On*	Total Miles	%	Cost**
Paved Road Projects	103.56	103.56	100%	\$49,895,356
Gravel Road Projects	31.1	97.68	31.84%	\$4,972,531
				Total Road: \$54,867,887
				Total Bridge & Road: \$73,914,949

*Some roads had 2 or more projects on the same segment in the past 20 years. This number only counts those mileages once.
**Projects for school buscaas and snow gates on County Highways are not displayed in the map but are included in highway costs. The Hwy Dept parking lot project is included in the costs for the northeast quadrant.

Cass County Highway Department

Jason Benson
County Engineer, P.E.

Tom Soucy
Deputy County Engineer, P.E.

Blaine Laaveg
Highway Superintendent



1201 Main Ave. W
West Fargo, ND 58078

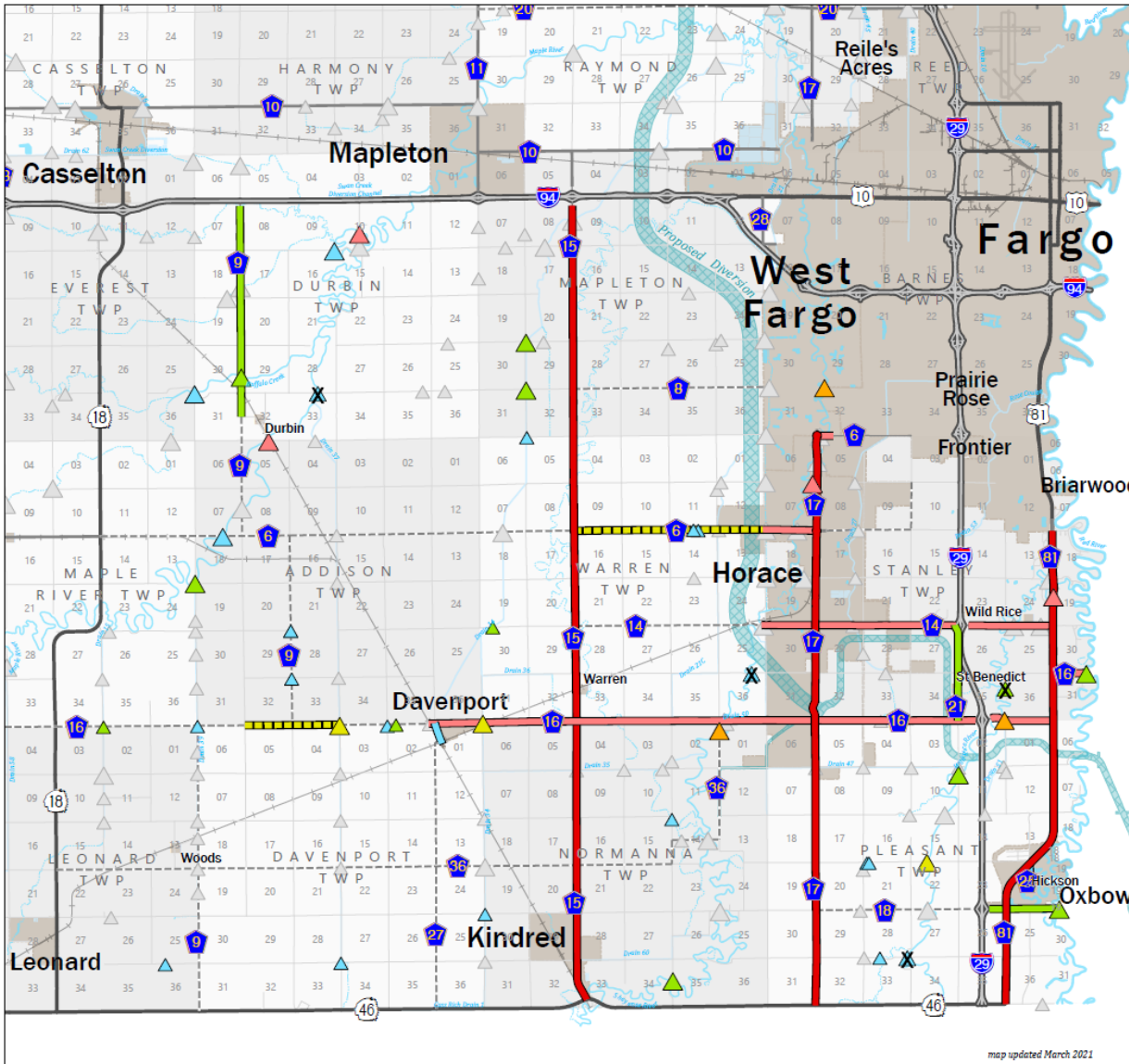
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Appendix 19b

**2000 - Present
Construction Project History**
southeast quadrant



County Structures

cost per structure in this quadrant

Minor	Major	Removed	Cost Range
▲ (15)	▲ (3)	✘ (3)	under \$100K
▲ (3)	▲ (8)	✘ (1)	\$100K - \$250K
▲ (0)	▲ (3)	✘ (0)	\$250K - \$500K
▲ (0)	▲ (2)	✘ (0)	\$500K - \$1M
▲ (0)	▲ (4)	✘ (0)	over \$1M

Projects also occurred on structures currently in Fargo (1) and West Fargo (2) that are displayed in the map but are not included in the counts above. Since being constructed by Cass County, these 3 structures have been turned over to those cities.

County Highways

cost per highway in this quadrant

Gravel	Paved	Cost Range
▬▬▬	▬▬▬	under \$100K
▬▬▬	▬▬▬	\$100K - \$250K
▬▬▬	▬▬▬	\$250K - \$500K
▬▬▬	▬▬▬	\$500K - \$1M
▬▬▬	▬▬▬	\$1M - \$5M
▬▬▬	▬▬▬	\$5M - \$10M
▬▬▬	▬▬▬	over \$10M

Structure Proj. Type	Proj. Completed	# of Structures	%	Cost
Bridge Removals	4	135 (85 minor/50 major)	N/A	\$248,392
Bridge Repairs	11	135 (85 minor/50 major)	8.15%	\$982,987
New Bridges	31	135 (85 minor/50 major)	22.96%	\$11,351,541
				Total Bridge: \$12,582,920

Road Project Type	Miles Worked On*	Total Miles	%	Cost**
Paved Road Projects	69.1	69.1	100%	\$34,158,585
Gravel Road Projects	5.98	68.29	8.76%	\$746,100
				Total Road: \$34,904,685
				Total Bridge & Road: \$47,495,116

*Some roads had 2 or more projects on the same segment in the past 20 years. This number only counts those mileage once.
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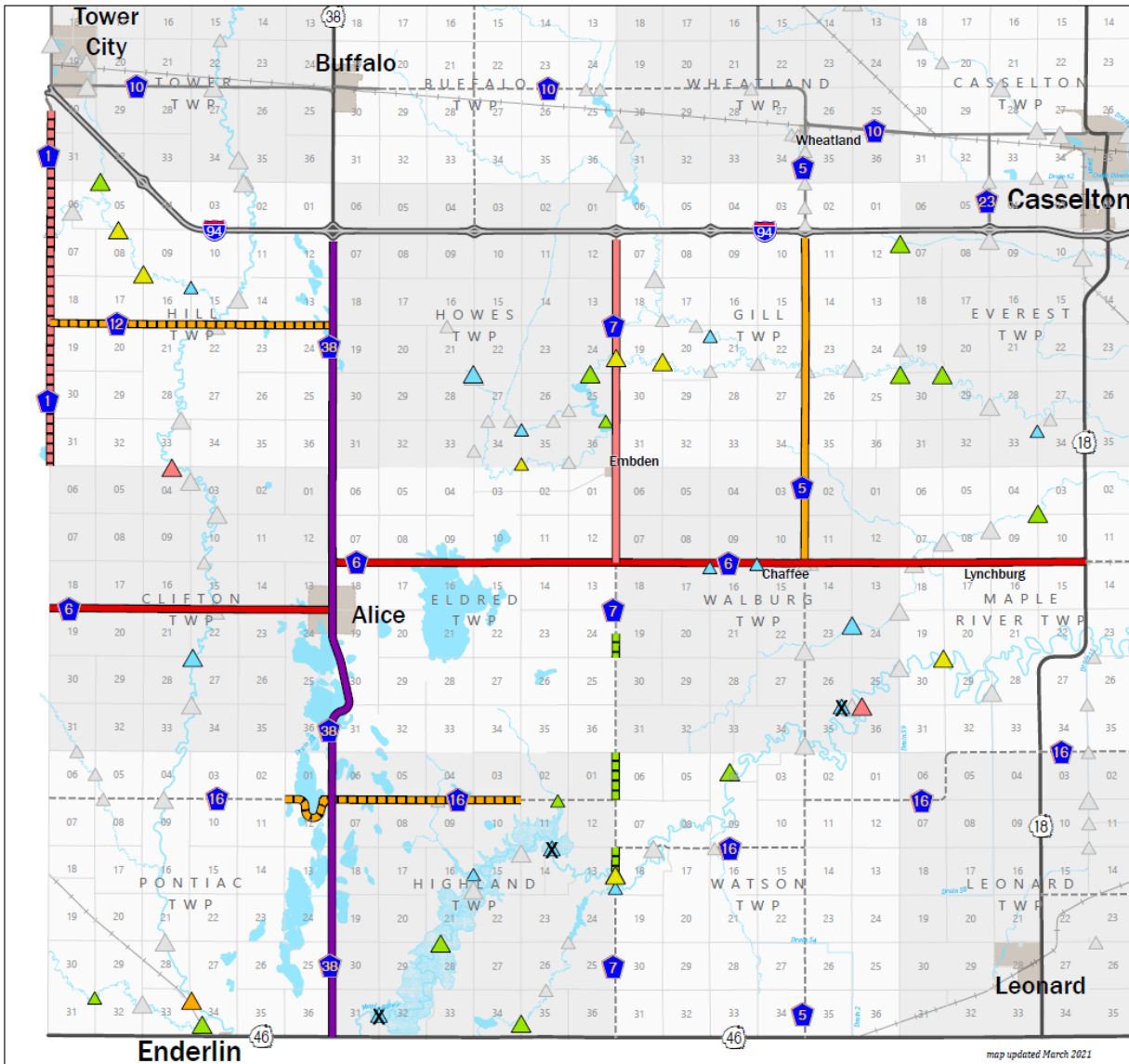
1201 Main Ave. W
West Fargo, ND 58078

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highway@casscountynd.gov

map updated March 2021





map updated March 2021

Appendix 19c

**2000 - Present
Construction Project History**
southwest quadrant

County Structures

cost per structure in this quadrant

Minor	Major	Removed	Cost
▲ (8)	▲ (3)	✕ (3)	under \$100K
▲ (3)	▲ (10)	✕ (0)	\$100K - \$250K
▲ (1)	▲ (7)	✕ (0)	\$250K - \$500K
▲ (0)	▲ (1)	✕ (0)	\$500K - \$1M
▲ (0)	▲ (2)	✕ (0)	over \$1M

Projects also occurred on structures currently in Fargo (1) and West Fargo (2) that are displayed in the map but are not included in the counts above. Since being constructed by Cass County, these 3 structures have been turned over to those cities.

County Highways

cost per highway in this quadrant

Gravel	Paved	Cost
▬▬▬	▬▬▬	under \$100K
▬▬▬	▬▬▬	\$100K - \$250K
▬▬▬	▬▬▬	\$250K - \$5000K
▬▬▬	▬▬▬	\$500K - \$1M
▬▬▬	▬▬▬	\$1M - \$5M
▬▬▬	▬▬▬	\$5M - \$10M
▬▬▬	▬▬▬	over \$10M

Structure Proj. Type	Proj. Completed	# of Structures	%	Cost
Bridge Removals	3	89 (36 minor/53 major)	N/A	\$81,204
Bridge Repairs	5	89 (36 minor/53 major)	5.62%	\$13,211
New Bridges	35	89 (36 minor/53 major)	39.3%	\$8,994,052
				Total Bridge: \$9,388,468

Road Project Type	Miles Worked On*	Total Miles	%	Cost**
Paved Road Projects	52.5	52.5	100%	\$27,942,008
Gravel Road Projects	20.98	55.81	37.6%	\$2,879,370
				Total Road: \$30,821,378
				Total Bridge & Road: \$40,209,846

*Some roads had 2 or more projects on the same segment in the past 20 years. This number only counts those mileages once.
**Projects for school bus stops and snow gates on County Highways are not displayed in the map but are included in highway costs. The Hwy Dept parking lot project is included in the costs for the northeast quadrant.

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Appendix 19d

2000 - Present

Construction Project History

northwest quadrant

County Structures

cost per structure in this quadrant

Minor	Major	Removed	
▲ (5)	▲ (3)	✘ (1)	under \$100K
▲ (4)	▲ (10)	✘ (0)	\$100K - \$250K
▲ (1)	▲ (5)	✘ (0)	\$250K - \$500K
▲ (0)	▲ (0)	✘ (0)	\$500K - \$1M
▲ (0)	▲ (1)	✘ (0)	over \$1M

Projects also occurred on structures currently in Fargo (1) and West Fargo (2) that are displayed in the map but are not included in the counts above. Since being constructed by Cass County, these 3 structures have been turned over to those cities.

County Highways

cost per highway in this quadrant

Gravel	Paved	
		under \$100K
		\$100K - \$250K
		\$250K - \$5000K
		\$500K - \$1M
		\$1M - \$5M
		\$5M - \$10M
		over \$10M

Structure Proj. Type	Proj. Completed	# of Structures	%	Cost
Bridge Removals	1	136 (74 minor/62 major)	N/A	\$9010
Bridge Repairs	5	136 (74 minor/62 major)	3.68%	\$153,019
New Bridges	28	136 (74 minor/62 major)	20.59%	\$5,912,158
				Total Bridge: \$6,074,217

Road Project Type	Miles Worked On*	Total Miles	%	Cost**
Paved Road Projects	83	83	100%	\$23,744,884
Gravel Road Projects	41.23	102.23	40.33%	\$7,792,878
				Total Road: \$31,537,762
				Total Bridge & Road: \$37,611,979

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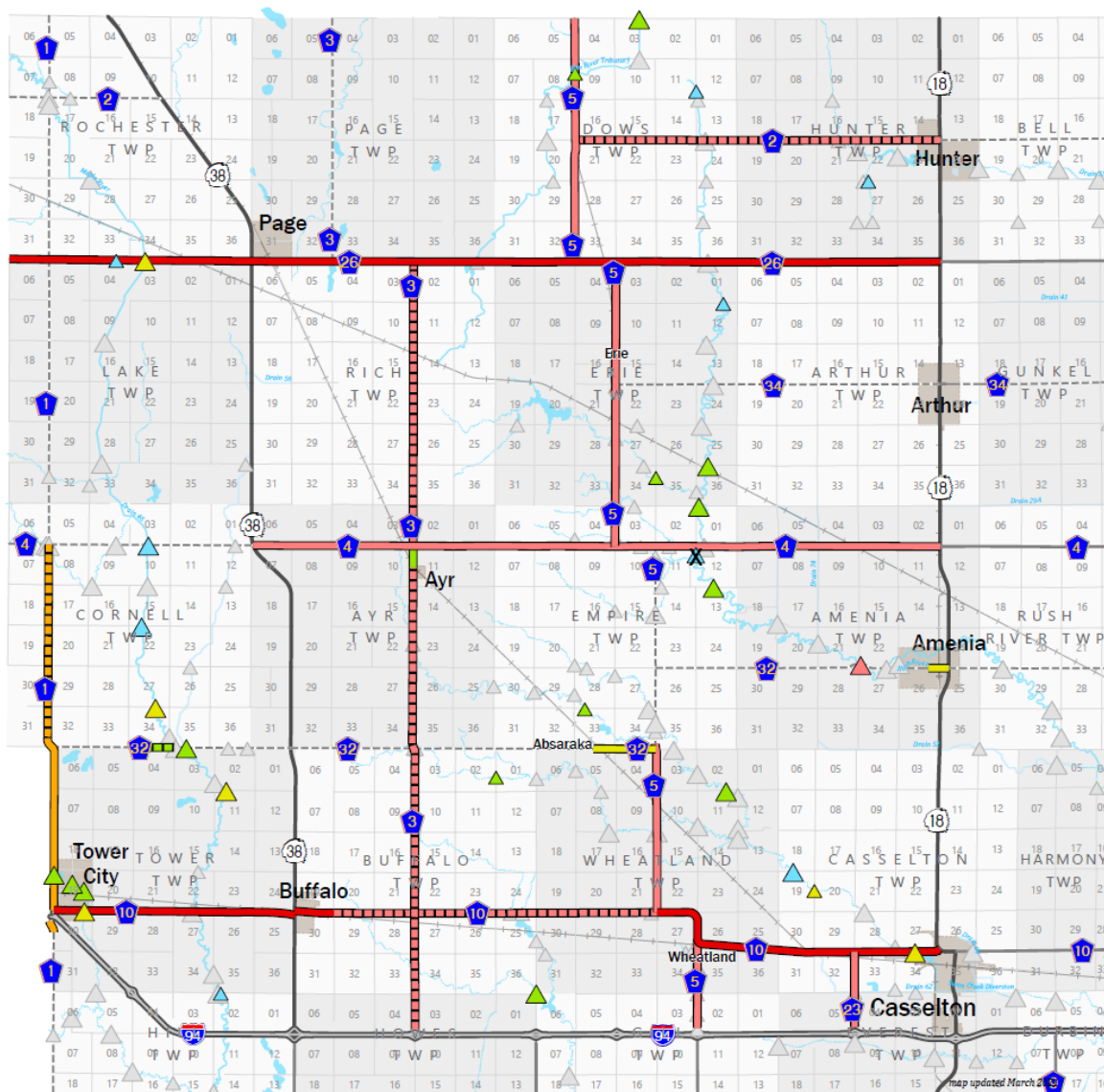
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2000 – 2020 Road & Bridge Projects

QUADRANT 1 - NE		
Bridge Removals	2	\$50,286
Bridge Repairs	10	\$432,476
New Bridges	27	\$18,571,810
Total Bridge Cost		\$19,054,572
Total Road Cost		\$54,867,887
Final Cost		\$73,922,459
QUADRANT 2 - SE		
Bridge Removals	4	\$248,392
Bridge Repairs	11	\$982,987
New Bridges	31	\$11,351,541
Total Bridge Cost		\$12,582,921
Total Road Cost		\$34,904,685
Final Cost		\$47,487,606
QUADRANT 3 - SW		
Bridge Removals	3	\$81,204
Bridge Repairs	5	\$313,211
New Bridges	35	\$8,994,052
Total Bridge Cost		\$9,388,468
Total Road Cost		\$30,821,379
Final Cost		\$40,209,846
QUADRANT 4 - NW		
Bridge Removals	1	\$9,040
Bridge Repairs	5	\$153,019
New Bridges	28	\$5,912,158
Total Bridge Cost		\$6,074,217
Total Road Cost		\$31,537,762
Final Cost		\$37,611,979
GRAND TOTALS		
Bridge Removals	10	\$388,922
Bridge Repairs	31	\$1,881,694
New Bridges	121	\$44,829,562
Total Bridge Cost		\$47,100,178
Total Road Cost		\$152,131,713
Final Cost		\$199,231,891

2000 – 2020 Funding

	2000	2020	% INCREASE
TWP.	\$396,643	\$1,033,593	261%
%	16%	11%	
FARGO/W FARGO	\$1,976,637	\$8,131,894	411%
%	80%	83%	

- All funding sources are dependent on the combined populations of Townships and Cities.
- Federal Funding for Roads
 - CMC Miles and Population - \$1.0 M
- Federal Bridge Funding
 - County Matching Funds – Varies \$500K
- ND Fuel Tax
 - Combined Twp & Cities Pop. - \$7.5 M
- Property Tax
 - Combined Twp & Cities Pop. - \$9.3 M



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Other Business

Cass County Highway Department