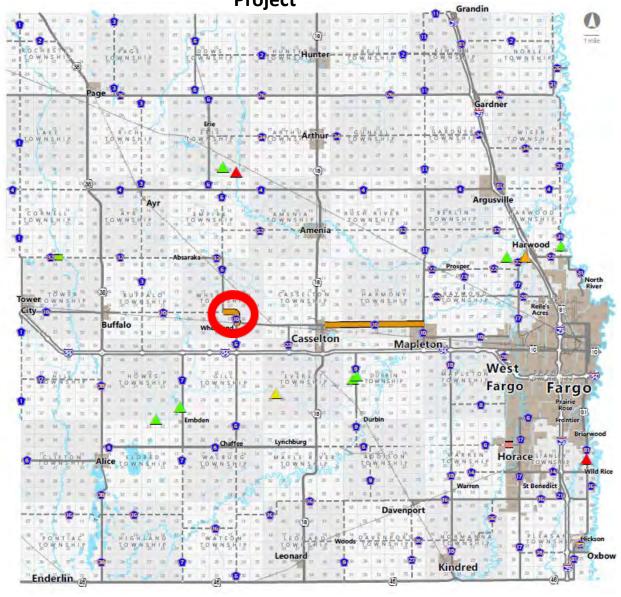
Update on 2020 Construction Projects

Wheatland – Safety Improvement Project



- C5 & C10 Radial Tee Grading & Paving
 - Safety Improvements
 - HSIP Grant \$1.2 M
 - Total Est. Cost \$3.2 M
 - Final Est. Cost \$2.0 M
 - ROW & Drainage Issues
 - NDDOT Oct 16th Bid Letting
 - Construct in 2021
 - House Buyout 2020
 - \$75K
 - Wetland Mitigation Acres

Deck Rehabilitation

Deck Replacement

Structure Replacement

▲ Structure Removal

Bituminous Surfacing

Ditch Grading



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
 - Fall NDDOT bid Letting
 - Construct in 2021
 - House Buyout
 - Foundation Issues
 - \$55K Plus Demo
 - Wetland Mitigation Acres

Deck Rehabilitation

Deck Replacement

Structure Replacement

▲ Structure Removal

Bituminous Surfacing

Ditch Grading



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
 - Fall NDDOT bid Letting
 - Construct in 2021
 - House Buyout
 - Foundation Issues
 - \$55K Plus Demo
 - Wetland Mitigation Acres

Deck Rehabilitation

Deck Replacement

Structure Replacement

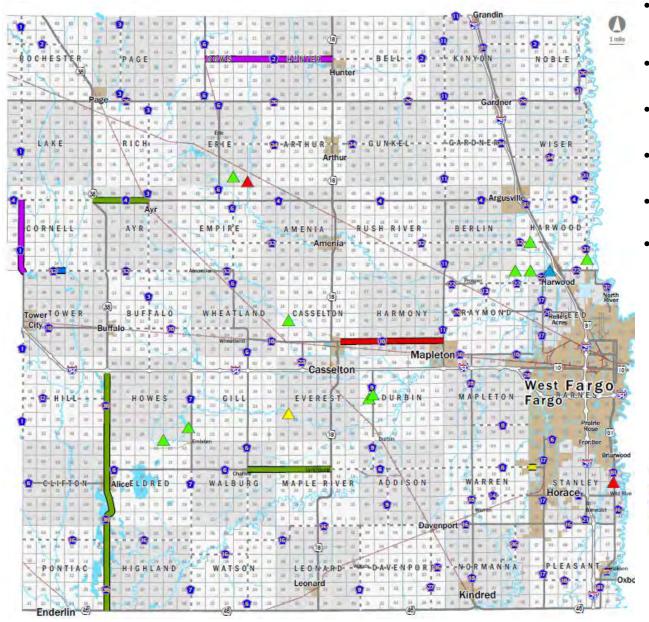
▲ Structure Removal

Bituminous Surfacing

Ditch Grading



2020 Approved 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
- 19/20 Casselton Twp & 2 Howes
 Twp Box Culverts \$410K
- C17 Milling at 19th Ave N
 - \$40K

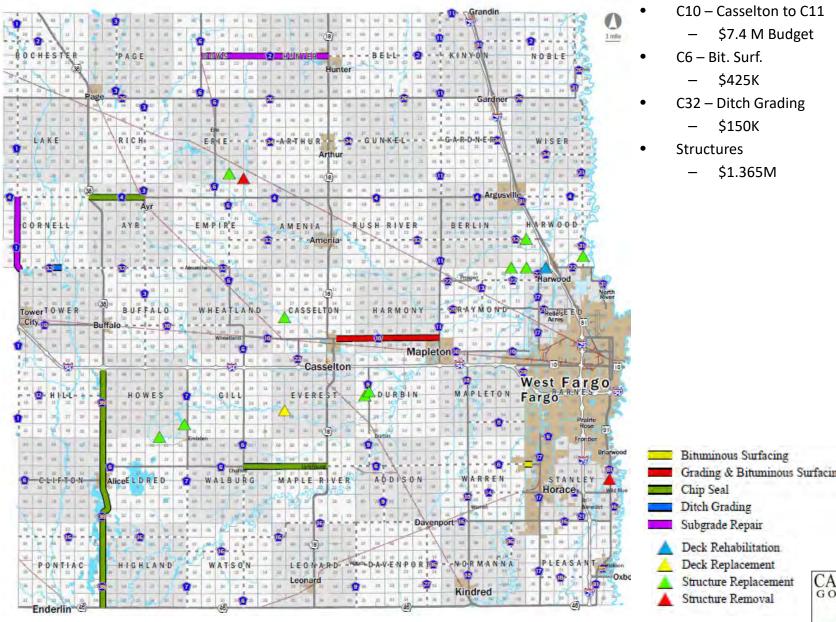
Bituminous Surfacing
Grading & Bituminous Surfacing
Chip Seal
Ditch Grading
Subgrade Repair
Deck Rehabilitation

Deck Replacement

Structure Replacement
Structure Removal



2020 Approved Projects

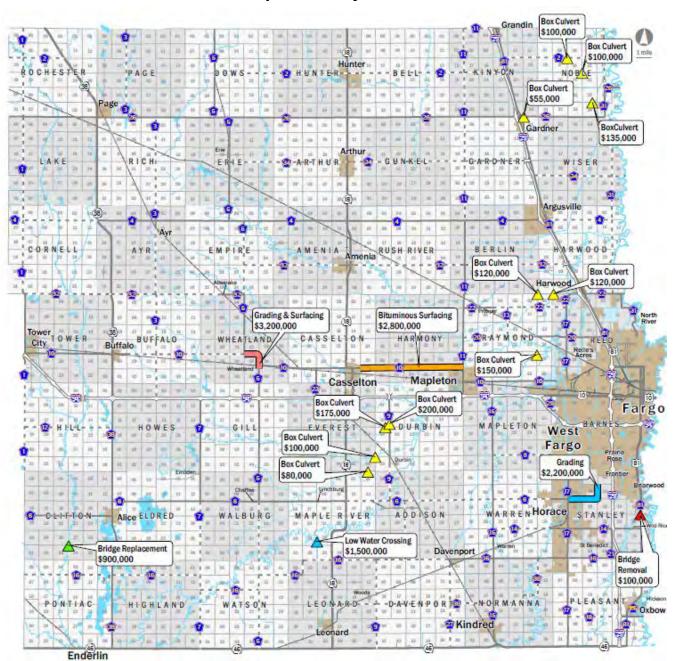


Planned 2020 Projects

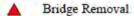


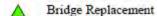
Proposed 2021 Construction

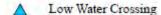
2021 Proposed Projects











Bituminous Surfacing

Grading

Grading & Surfacing



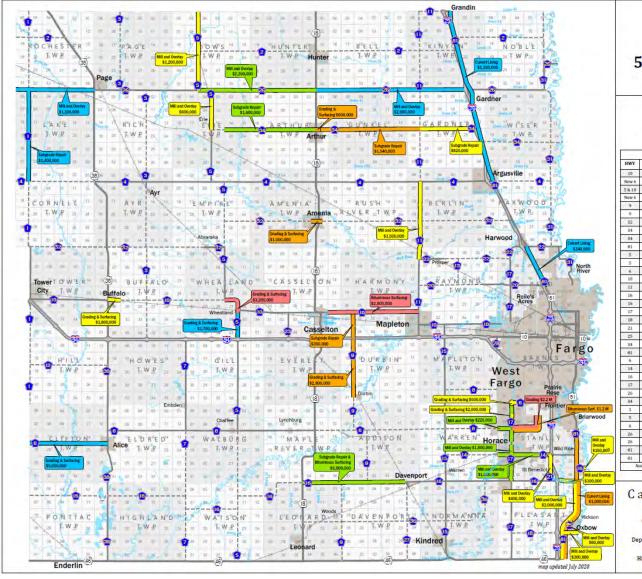
2021 Proposed Project



- Hwy Parking Lot Mill & Overlay
- Built in 2001
- Cracks in Pavement
- 2021 Budget
 - \$80K
- 2020 Quotes from Contractors
 - \$53,250 Northern
 Improvement
 - \$53,938 Border StatesPaving
 - Remodel Line Item
 - \$400K Davenport Shop
 - Less 2nd Shop Purchase \$160K
 - \$240K Balance



2021-2025 Hwy Plan



2021 - 2025 5 Year Capital Improvement Plan Proposed Highway Projects

2021 2022 2023 2024 2025

HWY	LOCATION	PROJECT TYPE	FUNDING	YEAR	COST
10	Casselton - 15th St to Hwy 11	Bituminous Surfacing	Local	2021	\$2,800,000
New 6	Hwy 17 to 45th St. & 45th St to 64th Ave S	Grading	Local	2021	\$2,200,000
5&10	Hwy 5 & Hwy 10 Radial Tee Intersection & Shidr. Impr.	Grading & Surfacing	Federal	2021	\$3,200,000
New 6	Hwy 17 to 45th St. & 45th St to 64th Ave S	Bituminous Surfacing	Local	2022	\$1,200,00
9	Hwy 10 to 194	Subgrade Repair	Local	2022	\$360,00
9	194 to Durbin	Grading & Surfacing	Local	2022	\$2,800,00
32	State Hwy 18 West through Amenia	Grading & Surfacing	Local	2022	\$1,000,00
34	State Hwy 18 East through Arthur	Grading & Surfacing	Local	2022	\$600,00
34	Arthur to Hwy 11	Subgrade Repair	Local	2022	\$1,540,00
81	76th Ave S to State Hwy 46	Culvert Lining	Local	2022	\$1,000,00
5	Trail Co. Line to Hwy 26	Mill and Overlay	Local	2023	\$1,200,00
5	Hwy 26 to Hwy 34	Mill and Overlay	Local	2023	\$600,00
6	C17 Roundabout E 1,800'	Grading & Surfacing	Local	2023	\$500,00
10	State Hwy 38 through Buffalo I Mile East	Grading & Surfacing	Local	2023	\$1,800,00
ш	Hwy 4 to Hwy ZZ	Mill and Overlay	Federal	2023	\$1,500,00
16	129 to Hwy 81	Mill and Overlay	Local	2023	\$300,00
16	Hwy 81 to Red River Bridge	Mill and Overlay	Local	2023	\$150,00
17	Hwy 17 & 64th Ave S - Roundabout	Grading & Surfacing	Local	2023	\$2,000,00
18	129 to Red River Bridge	Mill and Overlay	Local	2023	\$300,00
21	Hwy 14 to Hwy 16	Mill and Overlay	Local	2023	\$450,00
25	Hwy 81 to 0.4 Miles S. through Hickson	Mill and Overlay	Local	2023	\$60,00
34	Hwy 11 to 129	Subgrade Repair	Local	2023	\$820,00
18	Hwy 16 W to ST Hwy 46	Mill and Overlay	Local	2023	\$2,000,00
6	Sheyenne Diversion to Hwy 17	Mill and Overlay	Local	2024	\$225,00
14	Sheyenne River to 129	Mill and Overlay	Local	2024	\$1,000,00
16	State Hwy 18 to Davesport	Subgrade Repair & Bituminous Surf.	Local	2024	\$5,000,00
17	52nd Ave S Roundabout to Horace & Horace to Hwy 16	Mill and Overlay	Local	2024	\$1,800,00
26	Hwy 5 North to State Hwy 18	Mill and Overlay	Federal	2024	\$2,200,00
34	State Hwy 18 to 1 Mile East of C5	Subgrade Repair	Local	2024	\$1,400,00
1	Hwy 4 to Hwy 26	Subgrade Repair	Local	2025	\$1,400,00
5	Wheatland to 194	Grading & Surfacing	Local	2025	\$1,700,00
6	Barnes Co Line to Hwy 38	Grading & Surfacing	Local	2025	\$5,000,00
26	Barnes Co. Line to ST Hwy 38	Mill and Overlay	Local	2025	\$1,100,00
26	State Hwy 18 to I29	Mill and Overlay	Federal	2025	\$2,900,00
18	Grandin to Argusville	Culvert Lining	Local	2025	\$1,360,00
81	Harwood to Hwy 20	Culvert Lining	Local	2025	\$340,00

Cass County Highway Department

Jason Benson County Engineer, P.E.

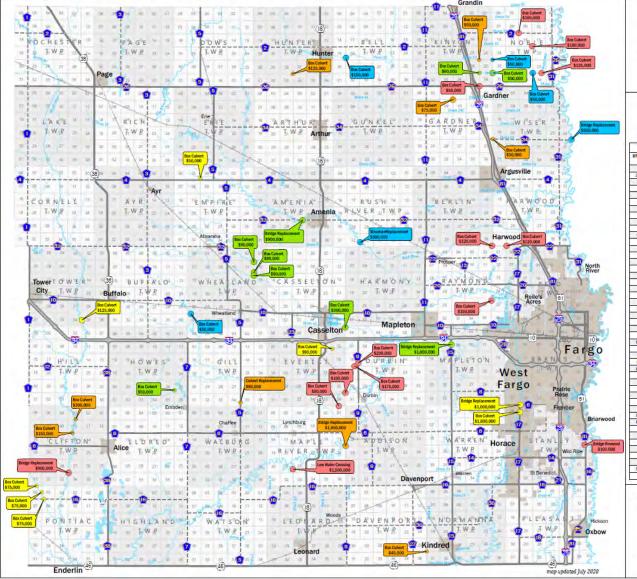
Tom Soucy Deputy County Engineer, P.E. Blaine Laaveg Highway Superintendent



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

2021 2022 2023 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 WRD Drain 18	Box Culvert	Local	Major	2021	\$100,00
26	C26 - 35-36 Kinyon Twp - Dr 22	Box Culvert	Local	Major	2021	\$55,0
2	C2 - 16/17 Noble Twp - Drain 31	Box Culvert	Local	Ma)or	2021	\$100,0
- 1	27/34 Noble - North Cass WRD Drain 32	Box Culvert	Local	Major	2021	\$135,0
	25-26 Raymond Twp - Drain 14	Box Culvert	Local	Major	2021	\$150,0
	31-32 Harwood Twp - Lower Branch of the Rush River	Box Culvers	Local	Major	2021	\$120,0
	2 Raymond - 36 Berlin Twps - Lower Branch of the Rush River	Box Culvert	Local	Major	2021	\$120,0
	13/24 Stanley Township - Wild Rice River	Bridge Removal	Local	Major	2021	\$100,0
	36 Everest/31 Durbin - Buffalo Creek	Bas Culvert	Local	Major	2021	\$100,0
	36 Everest - 1 Maple River - Tributary of Buffalo Creek	Box Culvert	Local	Major	2021	\$80,0
9	C9 - 17/18 Durbin Township - Tributary of Swan Creek	Box Culvers	Local	Ma)or	2021	\$200,0
	18/19 Durbin Twp -Tributary of Swan Creek	Box Culvert	Local	Major	2021	\$175,0
	27/34 Clifton - Maple River	Bridge Replacement	Local	Major	2021	\$900,0
	28/29 Maple River Twp - Maple River	Low Water Crossing	Federal	Major	2021	\$1,500,0
	30/31 Normanna Twp - Dr 34	Box Culvert	Local	Minor	2022	\$45,0
	9/10 Gardner - North Cass WRD - Drain 23	Box Culvert	Local	Major	2022	\$75,0
	33/34 Hunter Twp - Elm River Trib.	Box Culvert	Local	Minor	2022	\$125,0
	25 Gardner/30 Wiser Twp - Dr 26	Box Culvert	Local	Minor	2022	\$50,0
	25/26 Kinyon Township - Drain 19	Box Culvert	Local	Minor	2022	\$50,0
	10/15 Clifton Township on Maple River	Box Culvert	Local	Minor	2022	\$150,0
	3/10 Clifton Township on Maple River	Box Culvert	Local	Minor	2022	\$300,0
5	C5 - 34/35 Gill Twp	Culvert Replacement	Local	Minor	2022	\$80,0
	18-19 Addison / 13-24 Maple River - Maple River	Bridge Replacement	Federal	Major .	2022	\$1,800,0
	11/12 Everest Township - Wheatland Channel	Box Culvert	Local	Minor	2023	\$90,0
	34/35 Tower Township on Maple River	Box Culvert	Local	Major	2023	\$125,0
	4/5 EmpireTownship on Tributary of the Rush River	Box Culvert	Local	Minor	2023	\$50,0
16	5/8 Pontiac Twp - Tributary of the Maple River	Box Culvert	Local	Minor	2023	\$75,0
	5/6 Pontiac Twp - Tributary of the Maple River	Box Culvert	Local	Minor	2023	\$75,0
	6 Pontiac & 31 Clifton Twps - Tributary of the Maple River	Box Culvert	Local	Minor	2023	\$75,0
6	C6 - 6 Stanley/32 Barnes Twps - Sheyenne River	Bridge Replacement	Local	Major	2023	\$1,000,0
17	C17 - 5/6 Stanley Twp - Sheyenne River	Box Culvert	Local	Ma)or	2023	\$1,800,0
	36 Kinyon/31 Noble - Dr 32 - North	Box Culvert	Local	Major	2024	\$50,0
	25-26 Howes Twp	Box Culvert	Local	Minor	2024	\$50,0
	35/36 Kinyon Twp - Dr 32	Box Culvert	Local	Minor	2024	\$60,0
	11-12 N Wheatland Twp	Box Culvert	Local	Major	2024	\$90,0
	11-12 S Wheatland Twp	Box Culvert	Local	Major	2024	\$90,0
	13-14 WheatInd Twp	Box Culvert	Local	Major	2024	\$90,0
32	C32 - 22/27 Amenia Twp - Rush River	Bridge Replacement	Local	Major	2024	\$900,0
15	C15 - 8/9 Mapleton Township on Drain 14	Bridge Replacement	Local	Major	2024	\$1,000,0
	1 Everest/6 Durbin Townships - Swan Creek	Box Culvert	Local	Major	2024	\$300,0
	33/34 Noble - Dr 32 - North	Box Culvers	Local	Major	2025	\$50,0
	32/33 Rush River - Rush River	Structure Replacement	Local	Major	2025	\$500,0
	19/20 Bell - S. Branch of Elm River	Box Culvert	Local	Major .	2025	\$150,0
	30-31 WheatInd Twp - Buffalo Creek Trib.	Box Culvert	Local	Major	2025	\$50,0
	25 Kinyon/30 Noble Township - Drate 19	Box Culvert	Local	Minor	2025	\$50,0
34	C34 - Georgetown Red River Bridge	Bridge Repiscement	Local	Major	2025	\$600,0

Cass County Highway Department

Jason Benson County Engineer, P.E. Tom Soucy Deputy County Engineer, P.E.

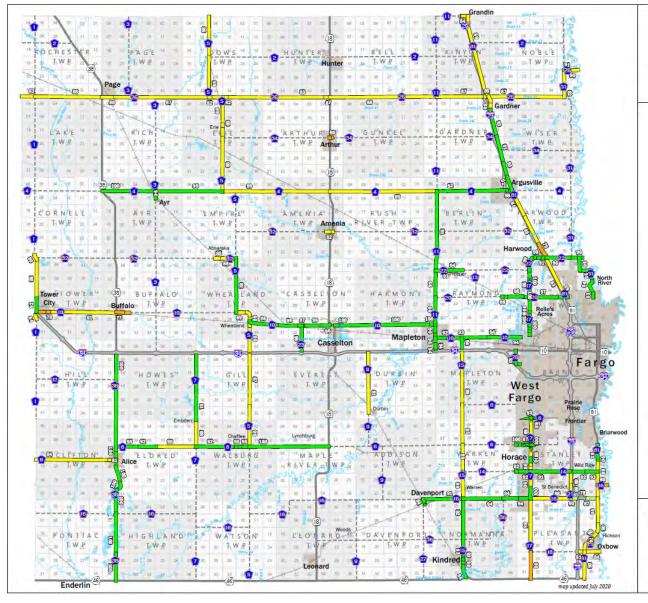
Blaine Laaveg Highway Superintendent



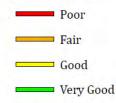
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Pavement Condition Index (PCI) 2017 Testing Results



PCI	Paved Miles	% of Paved Miles
not measured/unknown	1.81	0.58%
Poor PCI 0 - 65	0	0%
Fair PCI 66 - 80	6.94	2.23%
Good PCI 81 - 90	160.65	51.72%
Very Good PCI 91 - 100	141.22	45.46%

Total Paved Miles: 310.63

Average PCI*: 90.54 *prorated per length

Pavement Evaluation completed by American Engineering Testing in 2017.
The evaluation consisted of deflection testing with a Model 8002E Dynatest
Falling Weight Deflectometer. Pavement surface condition assessment
based on the Pavement Condition Index (PCI) method developed by the Army
Corps of Engineers. The resulting data is analyzed to evaluate the structural
and surface condition of the existing pavements on the tested road segments.

Roads reconstructed after 2017 have an assumed PCI value of 100.

Cass County Highway Department

Jason Benson County Engineer, P.E.

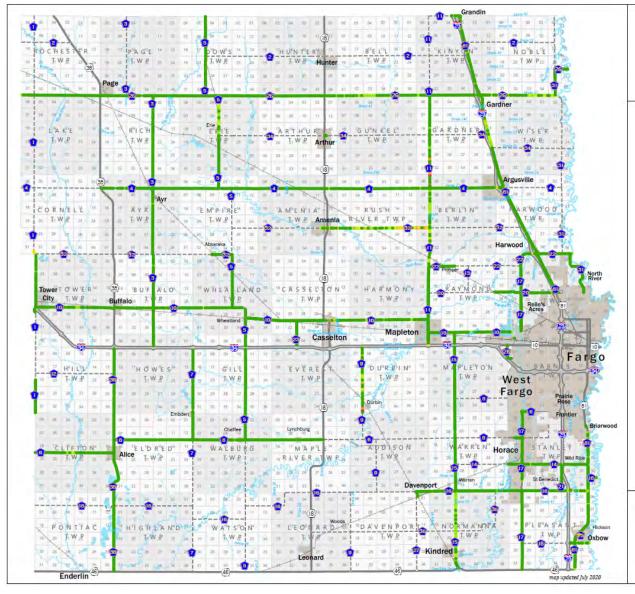
Tom Soucy
Deputy County Engineer, P.E.
Blaine Laaveg
Highway Superintendent



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Highway Load Capacity 2017 Testing Results

Tons/Axle

- 3 (worst)
- 4
- .
- 6
- 7
- . .
- 9
- 10 (best)

Pavement Evaluation completed by American Engineering Testing in 2017. The evaluation consisted of deflection testing with a Model 8002E Dynatest Falling Weight Deflectometer. Pavement surface condition assessment based on the Pavement Condition Index (PCI) method developed by the Army Corps of Engineers. The resulting data is analyzed to evaluate the structural and surface condition of the existing pavements on the tested road segments.

Cass County Highway Department

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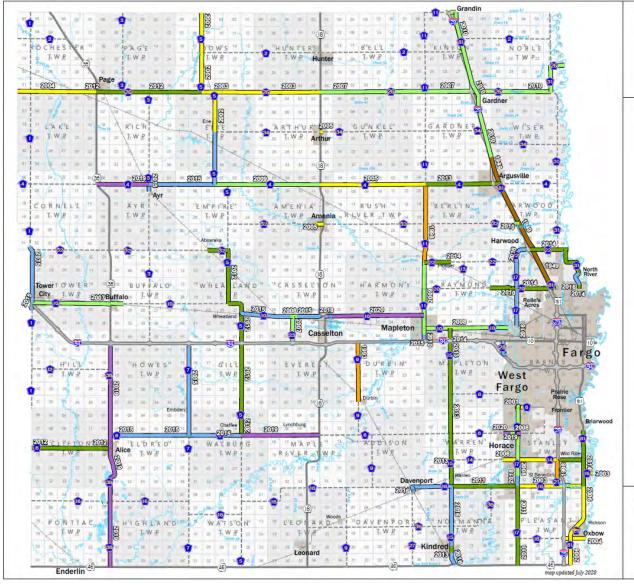
Tom Soucy Deputy County Engineer, P.E. Blaine Laaveg Highway Superintendent



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Paving Projects

Year of Last Project

1949

1993 - 1999

2000 - 2006

2007 - 2010

2011 - 2014

2015 - 2018

2019 - 2020

Year	Miles	Average PCI per segment
1949	10.64	85.5
1993 - 1999	12.41	86.75
2000 - 2006	50.73	85.35
2007 - 2010	68.47	90.13
2011 - 2014	77.58	91.94
2015 - 2018	55.25	95.26
2019 - 2020	35.55	100

Cass County Highway Department

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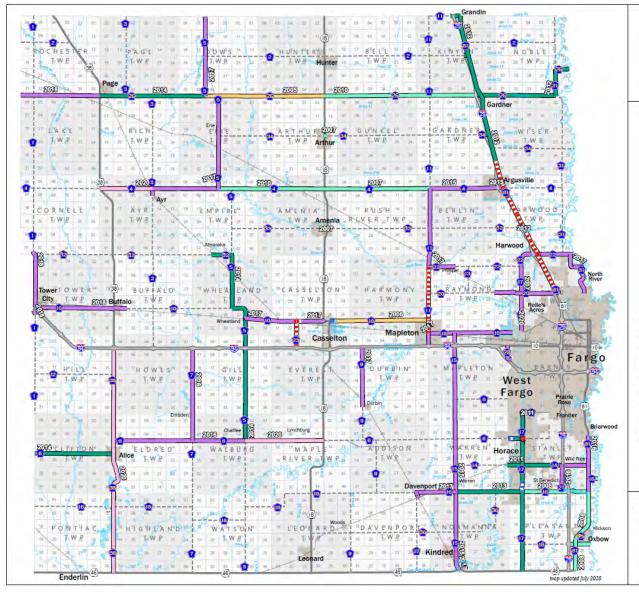
Tom Soucy Deputy County Engineer, P.E. Blaine Laaveg Highway Superintendent



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Chip Seal Projects

Year of Last Project

2005 - 2006

2007 - 2010

2011 - 2014

2015 - 2018

2019 - 2020

Asphalt - No Chip Seal

Concrete - No Chip Seal

Year	Miles	Average PCI_per segment
2005 - 2006	16	88.43
2007 - 2010	41.62	84.85
2011 - 2014	72.98	88.32
2015 - 2018	131.8	93.05
2019 - 2020	26.93	100
Asphalt - No Chip Seal	1.86	100
Concrete - No Chip Seal	19.43	94.96

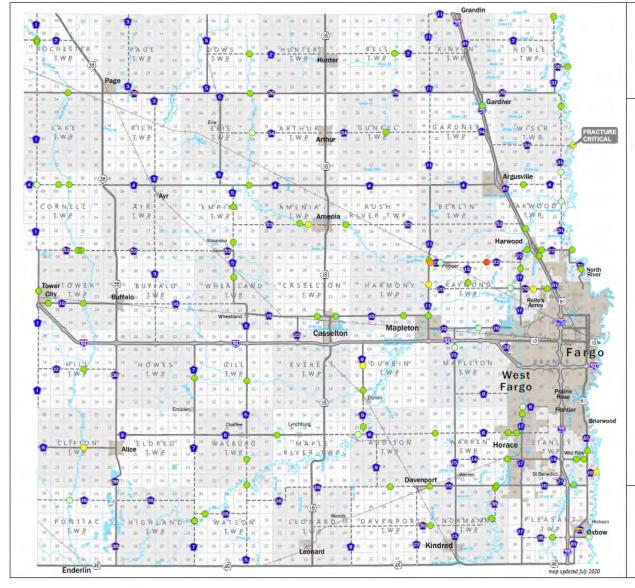
Cass County Highway Department

Jason Benson County Engineer, P.E. Tom Soucy Deputy County Engineer, P.E. Blaine Laaveg Highway Superintendent



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Bridges on County Roads: ND DOT 2019/2020 Bridge Inspection and Appraisal

Bridge Sufficiency Rating

- **50 59.9**
- 0 60 69.9
- 0 70 79.9
- 0 80 89.9
- 90 100

Sufficiency Rating	Bridge Count	
50 - 59.9	1	
60 - 69.9	1	
70 - 79.9	7	
80 - 89.9	12	
90 - 100	67	

Average Rating: 93.86

Cass County Highway Department

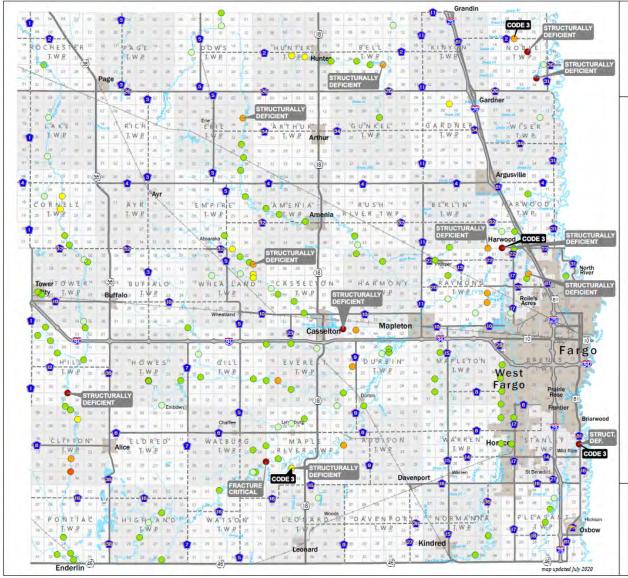
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Bridges on Township Roads: ND DOT 2019/2020 Bridge Inspection and Appraisal

Bridge Sufficiency Rating

- 37 49.9
- 50 59.9
- 0 60 69.9
- 0 70 79.9
- 80 89.9
- 90 100

Sufficiency Rating	Bridge Count
37 - 49.9	7
50 - 59.9	1
60 - 69.9	12
70 - 79.9	11
80 - 89.9	29
90 - 100	85

Average Rating: 87.92

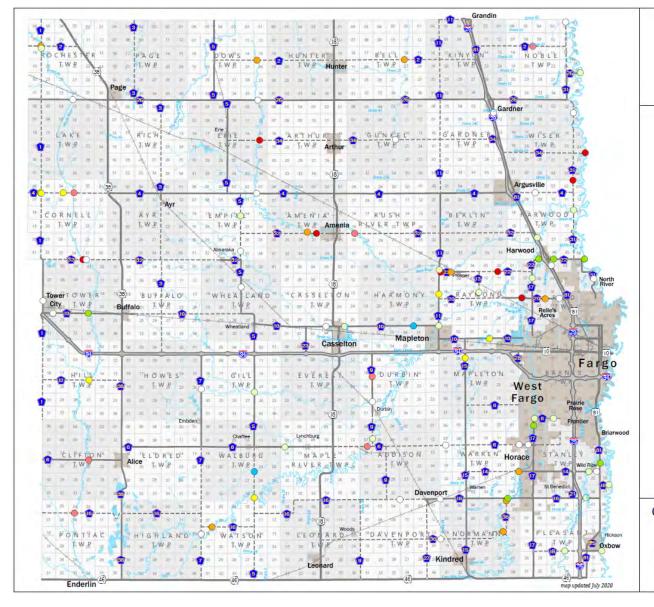
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Bridges on County Roads: ND DOT 2019/2020 Curb to Curb Roadway Width

Structure Width

- under 24'
- 24' 25.9'
- 26' 27.9'
- 0 28' 29.9'
- 0 30' 39.9'
- 0 40' 49.9'
- 50' +
- o culvert

Structure Width	Bridge Count
under 24'	8
24' - 25.9'	7
26' - 27.9'	8
28' - 29.9'	10
30' - 39.9'	19
40' - 49.9'	7
50'+	2
culvert	28

Cass County Highway Department

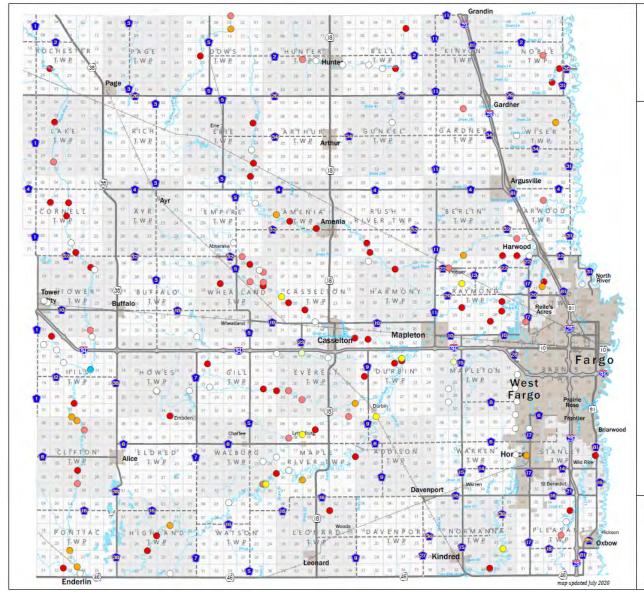
Jason Benson County Engineer, P.E. Tom Soucy Deputy County Engineer, P.E. Blaine Laaveg Highway Superintendent



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Bridges on Township Roads: ND DOT 2019/2020 **Curb to Curb Roadway Width**

Structure Width

- under 24'
- 24' 25.9'
- 26' 27.9'
- 28' 29.9'
- 30' 39.9'
- 40' 49.9'
- 50'+
- culvert

Structure Width	Bridge Count
under 24'	49
24' - 25.9'	21
26' - 27.9'	10
28' - 29.9'	10
30' - 39.9'	2
40' - 49.9'	0
50' +	1
culvert	51

Cass County Highway Department

Jason Benson County Engineer, P.E.

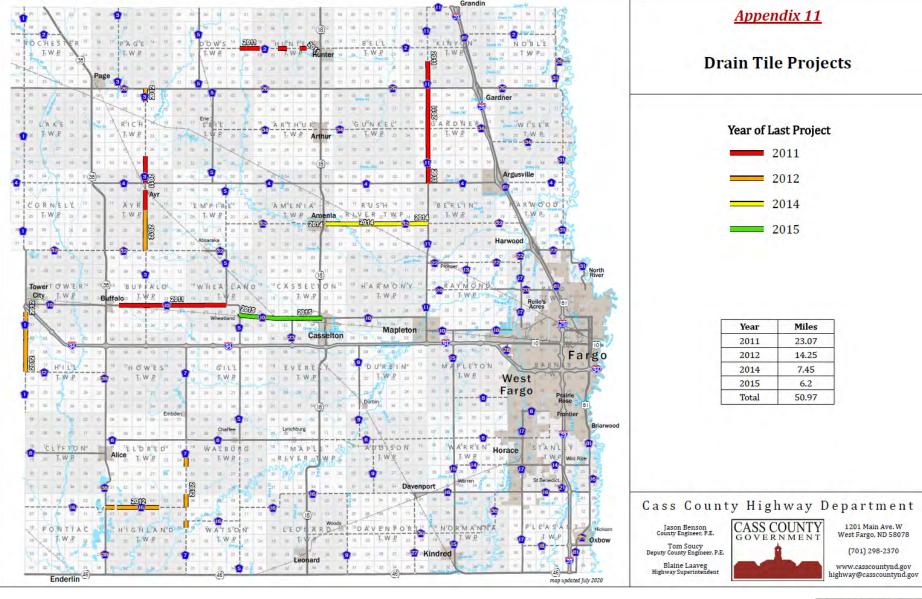
Tom Soucy Deputy County Engineer, P.E. Blaine Laaveg Highway Superintendent



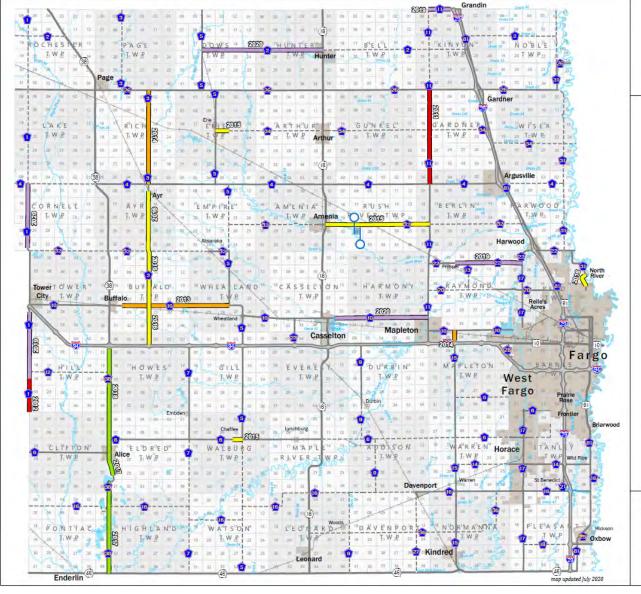
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Subgrade Repair Projects

Year of Last Project

2011 - 2012

2013 - 2014

2015 - 2016

2017 - 2018

2019 - 2020

Year	Gravel Miles	Paved Miles	Total Miles
2011 - 2012	9.56	0	9.56
2013 - 2014	15.01	0.75	15.76
2015 - 2016	20.19	1.8	21.99
2017 - 2018	0	16.28	16.28
2019 - 2020	25.43	6.97	32.4
Total	70.19	25.8	95.99

Cass County Highway Department

Jason Benson County Engineer, P.E. Tom Soucy Deputy County Engineer, P.E.

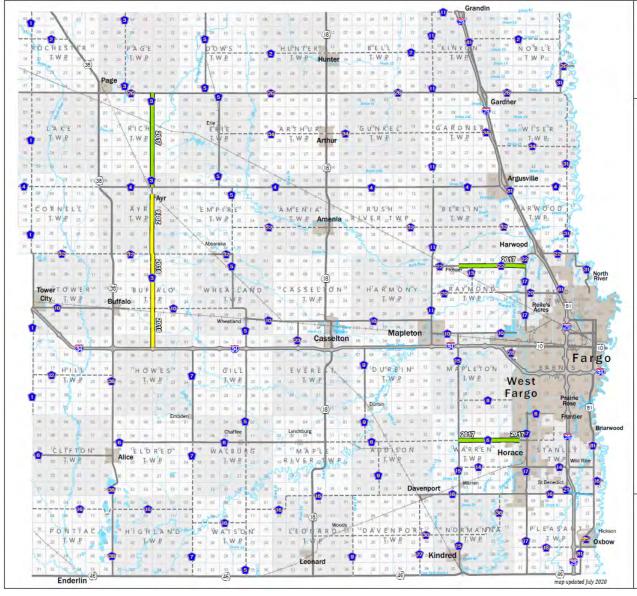
Deputy County Engineer, P Blaine Laaveg Highway Superintendent



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Gravel Stabilization Projects

Year of Last Project

= 2016

2017

Year	Miles
2016	11.42
2017	16.55
Total	27.97

Cass County Highway Department

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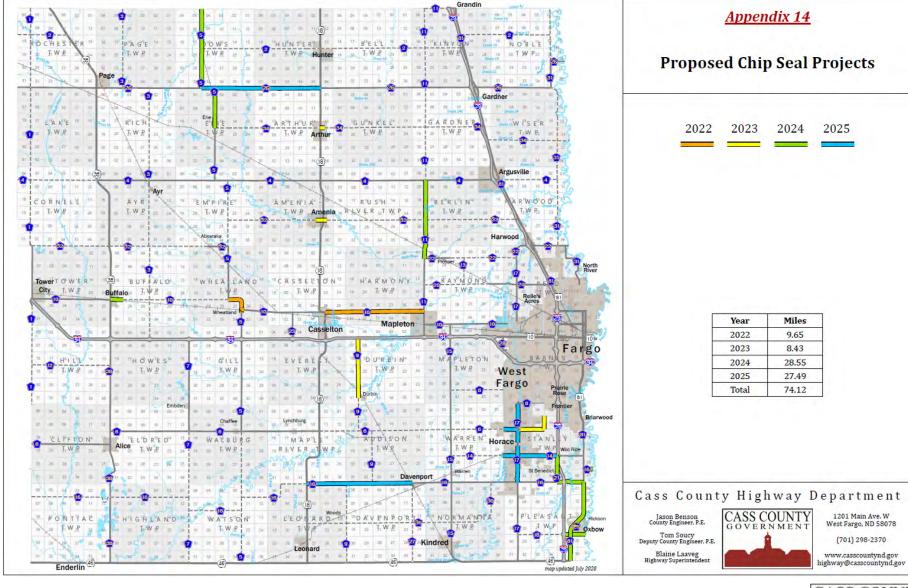
Tom Soucy Deputy County Engineer, P.E. Blaine Laaveg Highway Superintendent



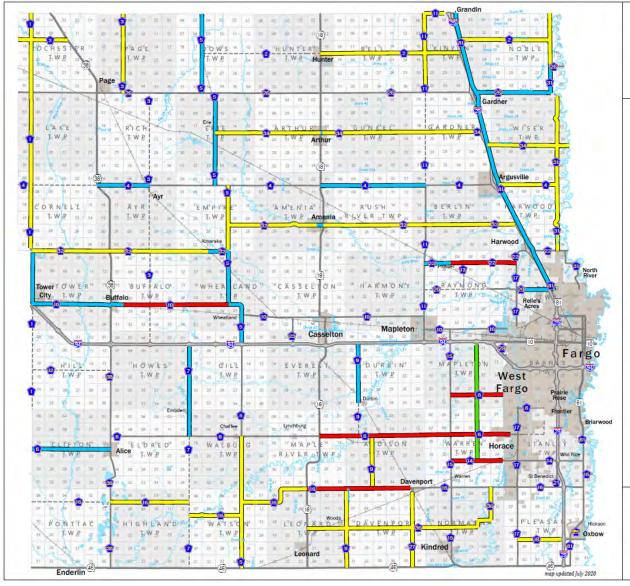
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Projected 30 Year Improvements

Gravel - Needs Paving/Grading

Gravel - Needs Reshaping

Paved - Needs Widening

Future County Highway

Type of Improvement	Miles	Cost/Mile*	Estimated Total
Gravel - Needs Paving/Grading	43.3	\$1.5 Million	\$65 Million
Gravel - Needs Reshaping	200.46	\$150,000	\$30.1 Million
Paved - Needs Widening	97.78	\$1.2 Million	\$117.3 Million
Future County Highway	8.8	\$1.5 Million	\$13.2 Million
	1	Total:	\$225.6 Million

^{*}Cost per mile figures represent today's costs and do not take into account inflation.

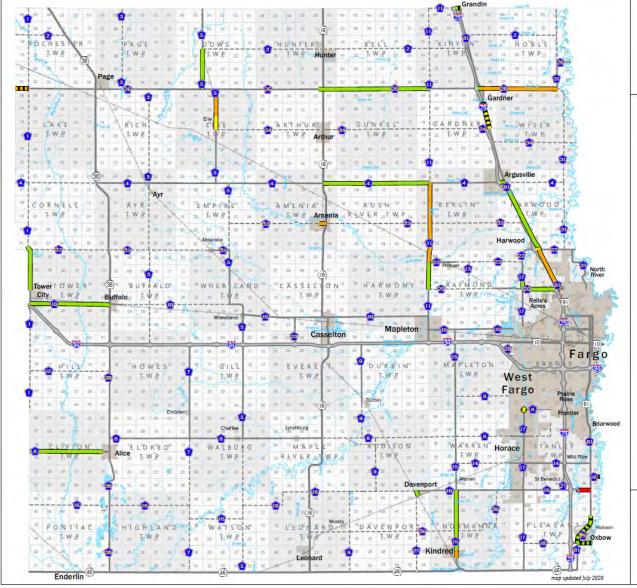
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Recommended Pavement Overlay

1.5 - 1.75 inch Mill and Overlay

1.5 - 1.75 inch Overlay

2 inch Mill and Overlay

2 inch Overlay

2.5 - 2.75 inch Mill and Overlay

2.5 - 2.75 inch Overlay

3 inch Overlay

Recommended Pavement Overlay*	Miles	
1.5 - 1.75 inch Mill and Overlay	4.64	
1.5 - 1.75 inch Overlay	50.64	
2 inch Mill and Overlay	2.57	
2 inch Overlay	1.8	
2.5 - 2.75 inch Mill and Overlay	0.98	
2.5 - 2.75 inch Overlay	17.58	
3 inch Overlay	1.03	
Total	79.24	

* Recommended pavement overlay thickness needed to achieve a 10 tons/axle road (from American Engineering 2017 testing results)

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Age of Highways and Estimated Age of Culvert Infrastructure

Year of Road Grading - Est. Age of Culverts

 unknown/TBD	65+ years old
1937 - 1949	71 - 83 years old
1950 - 1959	61 - 70 years old
 1960 - 1969	51 - 60 years old
1970 - 1979	41 - 50 years old
1980 - 1999	21 - 40 years old
2000 - 2019	1 - 20 years old
2020	0 years old

Year of Road Grading	Miles	% of Mileage
unknown/TBD (65+ years old)	151.12	23.71%
1937 - 1949	22.04	3.46%
1950 - 1959	84.79	13.30%
1960 - 1969	102.25	16.04%
1970 - 1979	60.63	9.51%
1980 - 1999	111.61	17.51%
2000 - 2019	97.68	15.32%
2020	7.29	1.14%

The age of highways is based upon the year of road graded. In most cases, the age of culverts is equivalent to the age of highways.

Cass County Highway Department

Jason Benson County Engineer, P.E. Tom Soucy

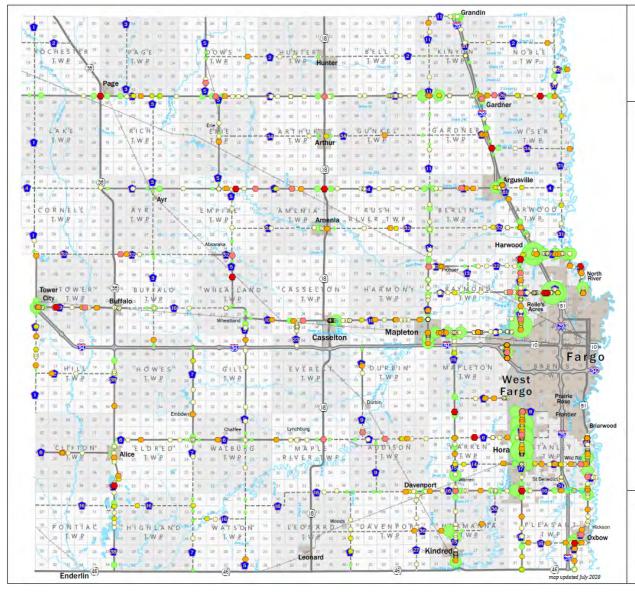
Tom Soucy Deputy County Engineer, P.E. Blaine Laaveg Highway Superintendent



1201 Main Ave. W West Fargo, ND 58078

(701) 298-2370





Crashes on County Highways: 2006 - 2019

Crash Severity

- Fatal
- Incapacitating Injury
- Non-incapacitating Injury
- Possible Injury
- Property Damage Only (PDO)

Average Daily Traffic Count (2018)



County Highway Type

- Paved
- --- Gravel

Crash Data Source: North Dakota Department of Transportation Traffic Count Source: KLJ Engineering

Cass County Highway Department

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Davenport Shop Options

Davenport Shop



- Tight Quarters
- Path Forward Secure ownership of building
- Use the budgeted \$400K
 to purchase in 2020 for approximately \$155K
- In 2022 budget to remodel/add onto to new shop and sell the old.







Davenport Shop

• Existing Shop

Proposed New Shop



Brewer Lake - Erie Twp. Road

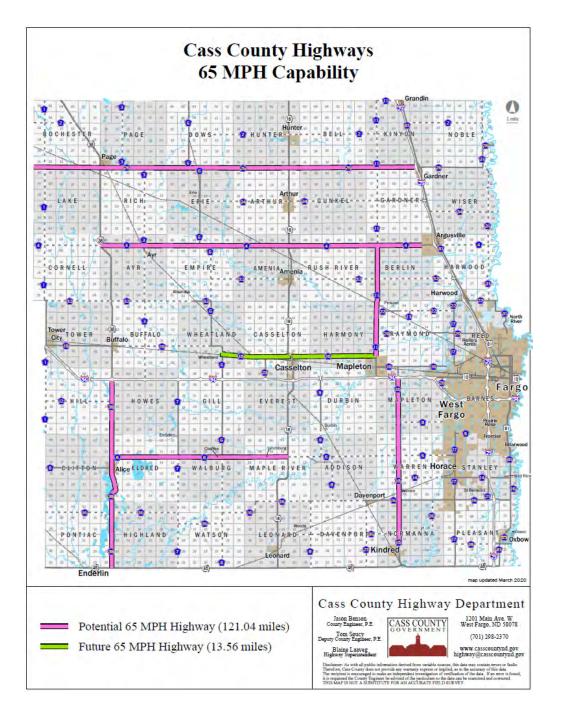
Brewer Lake – Erie Twp Road



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.

Potential 65 MPH Speed Changes



65 MPH Routes

Recommend the following routes be increased to 65 mph except in areas already posted speeds less than 55 mph. (i.e. through towns, schools, or curves)

Met with the Sheriff's department and discussed which roads had the potential to be raised to 65 mph.

- C4 State Hw38 to I-29
- C11 C10 to C4
- C15 State Hwy 46 to I94
- C26 Barnes Co. to I29
- C38 State Hwy 46 to I-94
- C-10 Wheatland to C11
- Pros
 - Connects Higher Volume County Roads to NDDOT 65 MPH Routes
 - Closes Gap of the 85% Speed
- Cons
 - Increases Stopping Distance
 - Potential confusion to overall county speed limit.



Other Business