NORTH

akota

Be Legendary

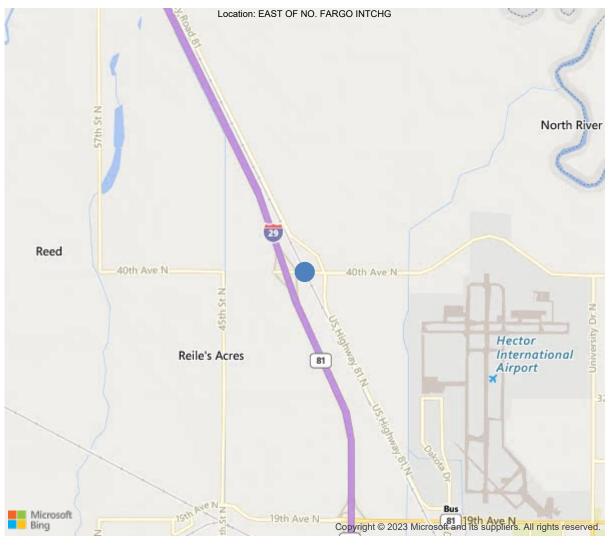
Asset #0029-069.374 N(Routine) COUNTY HIGHWAY over BNRR Location: EAST OF NO. FARGO INTCHG Inspection Date: 07/17/2023



Latitude:46.93411, Longitude:-96.84735 Route:08403 Log:0.1 District 68, 9 - Cass Owner: 1 - State Highway Agency Place Code: 25700 Team Leader: Andrew Nefstead Approved By: Andrew Nefstead

NORTH **akota**

Be Legendary.



46.93411, -96.84735



11) State Names 38 - North Dakota (8) Structure Number 0029-069.374 N (5) Inventory Route 1 (2) Highway Agency District 8 - Fargo (3) County Code 9 - Cass (4) Place Code 25700 (6) Features Intersected BNRR (7) Facility Carried COUNTY HIGHWAY (9) Location EAST OF NO. FARGO INTCHG (11) Mile Point 0.1 mi (12) LRS Inventory Rie & Subrte (11) (16) Latitude 46.9341138888889 (17) Longitude -96.847352777778 (98) Border Bridge State Code -1 (98) Border Bridge Structure No. STRUCTURE TYPE AND MATERIAL (43) Main Structure Type 2 - Stringer/Multi-beam or girder (44) Approach Structure Type 0 - Other (45) No. of Spans in Main Unit 3 (46) No. of Aproach Spans 0 (107) Deck Structure Type 1 - Concrete Cast-In-Place (108) Wearing Surface-Protective System 0 Type of Wearing Surface 4 - Low slump Concrete Type of Deck Protection 0 - None (27) Year Built 1965 <t< th=""><th>IDENTIFICA</th><th>TION</th></t<>	IDENTIFICA	TION
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(116) Vert-Lift Bridge Nav Min Vert Clear ft		0 ft
(40) Navigation Horizontal Clearance 0 ft		
	(40) Navigation Horizontal Clearance	0 ft

Asset #0029-069.374 N(Routine) COUNTY HIGHWAY over BNRR Location: EAST OF NO. FARGO INTCHG

Inspection Date: 07/17/2023

CLASSIFI	CATION
(112) NBIS Bridge Length (104) Highway System	Y 0
(104) Highway System (26) Functional Class	0 16 - Urban Minor Arterial
(26) Functional Class (100) Defense Highway	0 - Not a STRAHNET route
(100) Defense Highway (101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	2 - way traffic
(102) Direction of Hainc (103) Temporary Structure	2 110,
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - N/A 0 - The inventory route is not
(110) Designated National Network (20) Toll	3 - On toll free road
(20) Toli (21) Maintain	
(21) Maintain (22) Owner	1 - State Highway Agency 1 - State Highway Agency
(22) Owner (37) Historical Significance	• • • •
	5 - Bridge is not eligible for
CONDI	
(58) Deck	5
(59) Superstructure	7
(60) Substructure	6
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING	
(31) Design Load	5 - MS 18 / HS 20
(63) Operating Rating Method	1
(64) Operating Rating	
Туре	1 - Load Factor(LF)
Rating	62.1
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Туре	
Rating	
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRA	
(67) Structural Evaluation	AISAL 6
(67) Structural Evaluation (68) Deck Geometry	<u> </u>
(68) Deck Geometry (69) Clearances, Vertical/Horizontal	4
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy	8
	N 5
(72) Approach Roadway Alignment (36A) Bridge Bailings	
(36A) Bridge Railings (36B) Transitions	 Meets currently acceptable stan Inspected feature meets current
, ()	
(36C) Approach Guardrail (36D) Approach Guardrail Ends	1 - Inspected feature meets current
(36D) Approach Guardrail Ends (113) Scour Critical Bridges	1 - Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
PROPOSED IMP	PROVEMENTS
(75) Type of Work	0.4
(76) Length of Structure Improvement	
(94) Bridge Improvement Cost	\$0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estima	
(114) Future ADT	3000
(115) Year of Future ADT	2039
INSPECT	
(90) Inspection Date	07/17/2023
(91) Frequency	24

(90) Inspection Date			07/17/2023
(91) Frequency			24
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			

* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.

NORTH Transportation

Be Legendary.

Asset #0029-069.374 N(Routine) COUNTY HIGHWAY over BNRR Location: EAST OF NO. FARGO INTCHG Inspection Date: 07/17/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7518	6379	1114	25	0
1080	Delamination/Spall/Patched Area	SF	44	0	22	22	0
1090	Exposed Rebar	SF	3	0	0	3	0
1120	Efflorescence/Rust Staining	SF	106	0	106	0	0
1130	Cracking (RC and Other)	SF	920	0	920	0	0
1190	Abrasion/Wear (PSC/RC)	SF	56	0	56	0	0
7000	Damage	SF	10	0	10	0	0
(12) 7/12/2	021 - Deck has Low Slump Concrete Overlay.						
Span 2: 1 SF CS 2 4 SF CS 2 4 SF CS 2 8 SF CS 2 8 SF CS 3 6 SF CS 3 10 SF CS 3 10 SF CS 2 (1090-12) 7 Span 1: 1 SF on N 1 SF on S Span 2: 1 SF on N All with estin (1120-12) C 7/12/2021, Span 1: 2 SF on S Span 2: 40 SF bett 4 SF on S Span 3: 18 SF on 10 SF bett	Delam, area 1'L x 2'W in-between Girders 3 and 4 near Delam, area of 1' x 1'. Delam, area of 2' x 2'. Delam, area of 2' x 2'. Delam, area of 4'L x 2'W. All on South soffit. Delam/spall, area of 2'L x 3'W between Girders 3-4. Delam/spall, area of 3'L x 2'W between Girders 3-4. 3 Delam/spall, area of 10'L x 1'W on South soffit. Patch on East edge of deck near Backwall, area of 2'L x /17/2023 - Areas of Moderate CS 3 Spalling with Expose orth soffit. outh soffit. outh soffit. mated section loss up to 1/8" See photos. racking with efflorescence on underside of deck - 10/31 7/17/2023 - Underside Deck Seepage, Efflorescence and outh soffit. North Soffit. North Soffit. North Soffit. North Soffit. Rusting Staining on South Soffit. See Photos.	(1'W. Sea ed rebar to /2019	underside of				

COUNTY HIGHWAY over BNRR

Location: EAST OF NO. FARGO INTCHG

Inspection Date: 07/17/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
7/26/2021 - EB Lane with WB Lane with 0.012 to 0.02 7/17/2023 - Continued Tr WB Lane - 3 EB Lane - 25 Typical Unde (1190-12) 7/	andom cracking throughout deck - 10/31/2019 Transverse cracking to Deck Wearing Surface through n random Transverse cracking with a total of 120 SF (8 th various transverse cracking with spacing 2' up to 8' 25. Cracks unsealed. See Photos. Shear Cracks near all but SW Corner with Longitudina ransverse Cracking to Deck Wearing Surface througho 3 Cracks @ 15' W = 495 SF 5 Cracks @ 15' W = 375 SF. All Crack widths from 0.00 erside Deck Cracking throughout. See Photos. /17/2023 - Areas of CS 2 Abrasion Exposing Aggregate	3 Cracks @ 1 throughout w I Cracks near ut both lanes 04 to 0.025. S	5' W) with v vith a total o East End. I with: Spacing of C	vidths 0.012 of 375 SF (2 Estimated 50 Cracking 2' to	5 Cracks @) SF		
	ween Girders 1-2 at Pier 3, area of 4'L x 6'W. ween Girders 2-3, area of 8'L x 4'W. See photos.						
West end:	(17/2023 - Minor areas of Blade Damage to Deck Weak area of 6"L x 10'W.	ring Surface	with,				
5 SF CS 2,	area of 6"L x 10'W. See photos.						
107	Steel Open Girder/Beam	LF	840	340	500	0	0
1000	Corrosion	LF	500	0	500	0	0
515	Steel Protective Coating	SF	9147	7775	0	0	1372
3420	Peeling/Bubbling/Cracking	LF	457	0	0	0	457
3440	Effectiveness (Steel Protective Coatings)	LF	915	0	0	0	915
4, random a 7/17/2023 - top flanges v	7/12/2021 - Freckled Rusting to Girders 1-4 in all span reas along lips of top flanges and webs throughout. Se Continuation and Advancement of Rusting to Girders 3 with range areas within the webs. Most areas freckled Section Loss observed. See Photos.	e Photos. 1-4 througho	ut Spans 1-	3. Areas con	tinuing to i	nclude bott	om and
	07) 7/17/2023 - CS 4 Peeling of Coating Down to Bare ughout mainly Girders 1 and 4 in Spans 1-3. Estimated			nge, lips, and	d portions o	of Webs and	d Top
7/12/2021 - random ares	07) Paint peeling through the finish coat - 10/31/2019 CS 4 Loss of Effectiveness of coating to Girders 1-4 in alto Webs. Estimated 10%. Wee Photos. No Change to Condition State or Quantity. See Photos	all spans ma	inly along b	ottom girde	rs, lips of to	op girders a	and
205	Reinforced Concrete Column	EA	8	7	1	0	0
1090	Exposed Rebar	EA	1	0	1	0	0
7/12/2021 - photo.	Pier 3 column 1 has exposed rebar - 10/31/2019 Exposed rebar to Column 4 at Pier 3 with several sma No change in condition state or quantity. See photo.	ll patched are	eas. Previou	Isly location	reported in	correctly. S	See
215	Reinforced Concrete Abutment	LF	79	53	24	0	2
1130	Cracking (RC and Other)	LF	14	8	4	0	2
1190	Abrasion/Wear (PSC/RC)	LF	2	0	2	0	0
8001	Erosion	LF	18	0	18	0	0

NORTH

akota

Be Legendary.

Transportation

COUNTY HIGHWAY over BNRR

Location: EAST OF NO. FARGO INTCHG

Inspection Date: 07/17/2023

				map	pection D		1/2020
ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
7/12/2021, 7 West Abutm 1 LF CS 1 1 LF CS 1 1 LF CS 1 1 LF CS 2 1 LF CS 2 1 LF CS 2 1 LF CS 2 East Abutme 1 LF CS 2 1 LF CS 1 1 LF CS 1 2 LF CS 1 1 LF CS 1 (1190-215) 7	North of Girder 1, width of 0.004". South of Girder 1, width of 0.004". under Girder 2, width of 0.020". North of Girder 2, width of 0.006". under Girder 3, width of 0.012". North of Girder 3, width of 0.016". ent: between Girders 1-2, width of 0.012". under Girder 2, width of 0.006". between girders 3-4, widths of 0.004". under Girder 4, width of 0.004". See photos. 7/17/2023 - Area of Abrasion Exposing Aggregate to Ea		t with,				
	North of girder 1. See photo.		•				
7/12/2021 - 7/17/2023 - West abutme 14 LF, fror East abutme	m girder 3 to South end, area of $14'L \times 1'6''W \times 1''-4''D$.	ning of 4 LF	with area of	⁵ 4′L x 1′W	x 1"-2.5″D.	See photo.	
220	Reinforced Concrete Pile Cap/Footing	LF	64	48	16	0	0
8001	Erosion	LF	16	0	16	0	0
	7/17/2023 - Area of erosion along cap footing of pier 2			<i>c</i>	.		
	South half with 2 exposed H piles, area of 16'L x 2"-8"D	•	•	-	•		
34	Reinforced Concrete Pier Cap	LF	72	71	1	0	0
1130	Cracking (RC and Other)	LF	3	3	0	0	0
1190	Abrasion/Wear (PSC/RC)	LF	1	0	1	0	0
Pier 2 Cap: 2 LF near Pier 3 Cap: 1 LF at No	7/12/2021, 7/17/2023 - Horizontal CS 1 Cracking to pier North End, widths of 0.006". Observed on West Face rth End, width of 0.010". See Photo.					to	
(1190-234)	7/17/2023 - Area of abrasion with exposed aggregate to	o pier 2 cap	with 1 LF or	n North fac	e. See pho	oto.	
13	Fixed Bearing	EA	8	2	6	0	0
1000	Corrosion	EA	6	0	6	0	0
515	Steel Protective Coating	SF	40	34	0	6	0
3440	Effectiveness (Steel Protective Coatings)	EA	6	0	0	6	0
	7/12/2021 - Minor Rusting to Bearings 1, 2 and 4 at Pie Continued Minor Rusting to Pier 2 Bearings 1, 2, and 4 notos.						nry

(515-313) 7/12/2021 - Estimated 5 SF for EA Bearing.

Transportation

Be Legendary.

NORTH

COUNTY HIGHWAY over BNRR

Location: EAST OF NO. FARGO INTCHG

Inspection Date: 07/17/2023

							172020
ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
7/12/2021 Limited Effe 7/17/2023 Bearings 1	313) Paint peeling through finish coat - 10/31/2019 - Limited Effectiveness of coating to Pier 2 Bearings 4 ectiveness of Pier 2 Bearings 1 and 2 with estimation - Continued areas of CS 3 Limited Effectiveness to Pie and 4 to both Piers Estimated 25%. PIer 2 and Bearing 3 and Pier 3 Estimated 10%. See	of 5% for EA E er 2 Bearings 1	Bearing. See	Photos.		0% for EA	Bearing.
330	Metal Bridge Railing	LF	420	420	0	0	0
331	Reinforced Concrete Bridge Railing	LF	420	233	128	59	0
1080	Delamination/Spall/Patched Area	LF	22	0	22	0	0
1090	Exposed Rebar	LF	59	0	0	59	0
1120	Efflorescence/Rust Staining	LF	78	0	78	0	0
1130	Cracking (RC and Other)	LF	47	19	28	0	0
1 LF betw 1 LF betw 1 LF betw 1 LF betw South curb: 1 LF at W 1 LF betw 1 LF betw 1 LF betw 1 LF betw 1 LF East 1 LF East 1 LF betw UNDERSIDE Span 1: 1 SF or 2 SF or 1 SF or 3 SF or 1 SF or	er post 3. veen posts 3-4. veen posts 8-9. veen posts 9-10. veen posts 15-16. veen posts 16-17. veen posts 20-21. Vest end. veen posts 1-2. er post 5. veen posts 7-8. of post 8. of post 11. veen posts 13-14.						

NORTH Transportation

Be Legendary.

COUNTY HIGHWAY over BNRR

Location: EAST OF NO. FARGO INTCHG

Inspection Date: 07/17/2023

LEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1090-331) 7	7/26/2021, 7/17/2023 - Spalling with exposed re	bar to curbs progre	essing with.	1	1		
North curb:							
1 LF on po	sts 1, 2, 3, 7, 8, 9, 10, 13, 14, 16, 17, 18.						
5 LF betwe	een posts 2-3.						
1 LF betwe	en posts 3-4.						
1 LF on Ra	il between posts 6-7.						
	en posts 12-13.						
	veen posts 17-20.						
South curb:							
	sts 1, 8, 10, 11, 12, 14, 15, 16, 17, 19, 20, 21,	23 and East end po	st.				
1 LF at We							
	of Post 20 underside of Rail.						
1 LF at Eas	· · · · · · · · · · · · · · · · · · ·						
JNDERSIDE:							
South curb: 4 LF at pos	-+ Ω						
1 LF at pos							
	en posts 13-14.						
2 LF at pos							
	en posts 19-20.						
1 LF at pos							
	st 25. See photos.						
1120-331) 7	7/26/2021, 7/17/2023 - Rust Staining to curbs p	roaressina with					
North curb:		rogressing with,					
	een posts 11-12.						
	en posts 17-20.						
South curb:	•						
15 LF unde	erside in Span 1.						
5 LF betwe	en posts 2-3.						
6 LF betwe	een posts 6-7.						
	erside in Span 2.						
	en posts 9-10.						
	en posts 11-12.						
	en posts 12-13.						
	een posts 15-18.						
	erside in Span 3. See photos.						
	Random cracking throughout bridge rail - 10/31/						
	1/17/2023 - Various cracking to curbs progressing	ig with,					
North curb:							
	Various at West end, widths of 0.012".						
	verticals throughout, widths of 0.004"-0.010". Various at East end, widths of 0.004"-0.008".						
S LF CS Z v	various at East end, widths of 0.004 -0.008.						
	various at West end, widths of 0.012"-0.040".						
	verticals throughout, widths of 0.012 -0.010".						
	norizontal between posts 4-5, width of 0.020".						
	norizontal between posts 5-6, width of 0.020".						
	verticals in Span 3, width of 0.012"-0.016".						
	norizontal to underside at East end, widths of 0.	014"-0.018".					
2 LF CS 2 \	various at 2' from East end, widths of 0.014"-0.0	040". See photos					
5	Re Conc Backwall	LF	79	59	20	0	0
1120	Efflorescence/Rust Staining	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	34	15	19	0	0
		<u> </u>					

NORTH

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Be Legendary.

Transportation

COUNTY HIGHWAY over BNRR

Location: EAST OF NO. FARGO INTCHG

Inspection Date: 07/17/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(1120-815) 7/12/2021 - Vertical crack with seepage and efflorescence to West Back Wall with							
	of Girder 2. See photo.						
//1//2023 -	No change in condition state or quantity. See photo.						
	7/12/2021, 7/17/2023 - Various cracking to backwalls pr	ogressing	with,				
West Backwa							
	various North of Girder 1, widths of 0.004"-0.006".						
	vertical South of Girder 1, width of 0.016".						
	vertical between girders 1-2, width of 0.012".						
	vertical South of girder 2, width of 0.006".						
	vertical between Girders 2-3, width of 0.020".						
	vertical South of Girder 3, width of 0.016". diagonal between Girders 3-4, width of 0.006".						
	diagonal South of Girder 4, widths of 0.004"-0.008".						
	vertical North of girder 4, width of 0.050".						
East Backwa							
	diagonal North of Girder 1, widths of 0.004"-0.006".						
	vertical between Girders 1-2, width of 0.004".						
	vertical between girders 1-2, width of 0.016".						
	vertical between Girders 2-3, width of 0.020".						
1 LF CS 1	vertical North of Girder 3, width of 0.004".						
4 LF CS 2	various between girders 3-4, widths of 0.004"-0.008"						
4 LF CS 2	Various at South end, widths of 0.004"-0.008". See ph	iotos.					
8401	Wings	EA	4	4	0	0	0

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Transportation



General Observation

Structure Inventoried from West to East with Girder 1 on the North Side and Pier 2 in Sequential Order after West Abutment.

Deck overlay, rail retrofit & guardrail in 2010. Sharp vertical curves both directions. Traffic impact to NW and SW guardrail. Retaining wall and rip rap added to west side of railroad tracks. - 10/31/2019

7/12/2021 - The Following was removed from Significant Findings: NW pier cap has scaling & cracking on end. Curb & rail posts are spalling with corroded rebar. Approaches have settled. Rusted steel on column 1 Pier # 3 has exposed rebar. Abutments are cracked with rust staining at beam seats. 1/8" wide cracks at south end of west abutment. - 10/31/2019 Volunteer Tree Growth near NE Corner.

Some erosion along West Abutment beginning to expose bottom of Abutment. Concrete Placement Block in-front of Abutment.

Pier 2 Protection is of Retaining Wall.

Both Slopes are of Embankment Material.

Deck Wearing Surface and Railings not completed due to Contract Work on Approach.

7/26/2021 - Deck Wearing Surface and Railings inspected. Under 2021 Contract, Paved HMA Approach on the West Side.

Aggregate, Millings, and debris building up along North and South Gutter Lines.

Spalling with exposed rebar to SE End Post.

7/17/2023 - Weather: 59°F, Cloudy Skies with 8mph winds from the NW.

Vehicle Impact Damage to SW Guardrail with 2 cracked posts, NE Guardrail with 1 Cracked post.

Significant Findings

Erosion along Pier 2 in-between Columns 3 and 4 with an area of 7' L x 2" - 4" D x 2' W (Undermined). Rust forming on soffit at delaminated concrete areas. Undermining of east abutment with water running thru, and undermining of Pier 2 footing. - 10/31/2019.

7/17/2023 - Continuing of Spalling with Exposed Rebar, Rust Staining, and Delamination along South Deck and Curb Soffit throughout.

Large Vertical Cracks to West Abutment under and North of Girder 4. Crack Openings 1/8" to 3/16".

Underside Deck and South Deck Soffit areas of Delamination mainly in Span 2.

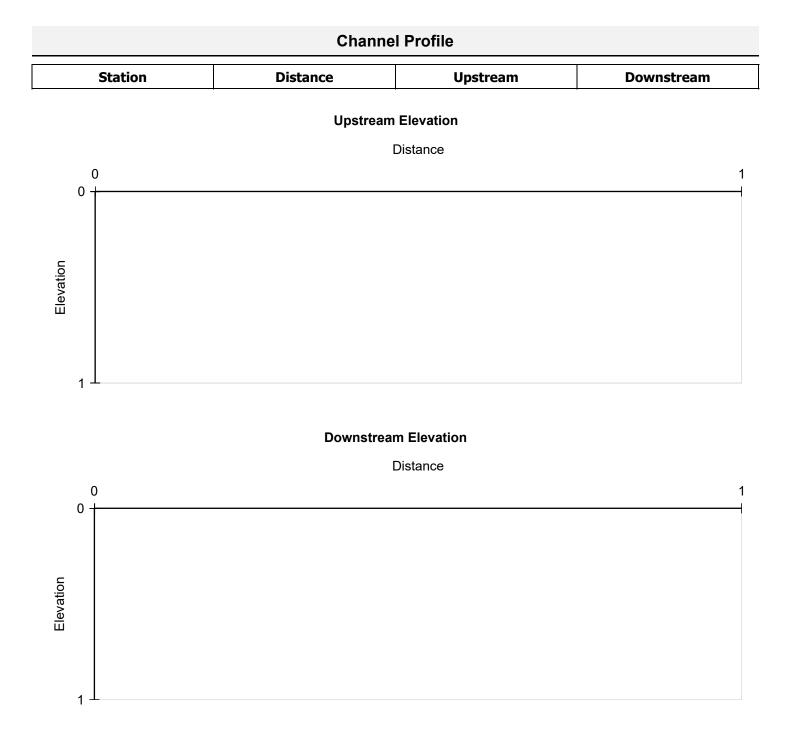
Erosion and Undermining along West Abutment with an area of 16' L x 1" to 8" H x 1'-6" Undermined.

Erosion to East Abutment with an area of 4' L x 1" to 2 1/2" H x 2' Undermined.

Erosion and undermining to Pier 2 Cap Footing from Column 3 to Column 4. Area 16' L x 2" to 8" H x Entire Width Undermined.

Critical Finding









Facing North and Downward. East Bridge End Joint.



Facing North. Guardrail Transition at NE Corner. Similar at SE Corner.

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Facing SW and Downward. Erosion and Undermining along West Abutment South End.



Facing SW and Downward. Continued Erosion along West Abutment from Girders 3 to 4.

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Facing SW and Downward. Area of Erosion and Undermining along Lower Portion of West Abutment from Girder 3 to 4.



Facing South. West Embankment Slope.





Facing South. West Embankment Slope along Abutment.



Facing West and Downward. Large Vertical Crack Opening to West Abutment.





Facing West. Large Vertical Cracks to West Abutment under Girder 4.



Facing West. Vertical Cracks to West Abutment under Girder 3.





Facing West. Vertical Crack to West Abutment under Girder 2.



Facing NW and Downward. Erosion and Undermining Depth to West Abutment.





Facing West. Vertical Crack to West Backwall in-between Girders 2 and 3.



Facing SW. Vertical Crack with some seepage and efflorescence to West Backwall North of Girder 2.





Facing West. Vertical Crack to West Backwall in-between Girders 1 and 2.



Facing West and Upwards. Diagonal Cracks to West Backwall North End.

NORTH

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Facing West and Downward. Large Vertical Crack Opening under Girder 4.



Facing East. Peeling and Effectiveness of Coating to Bottom Flange to Girder 1 in Span 1.

NORTH

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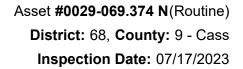
Facing SW. Freckled Rusting to Bottom Flange of Girders near West End.



Facing South and Upwards. Exposed Rebar to South Deck Soffit in Span 1.

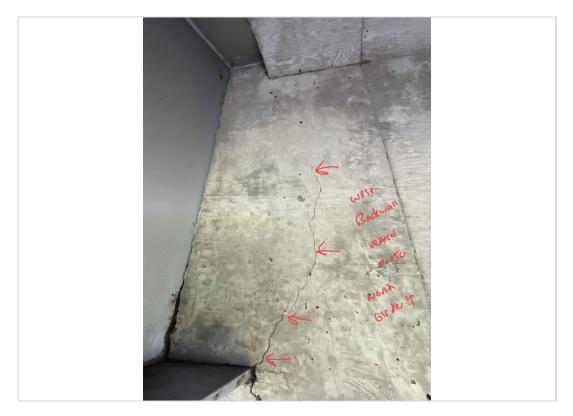
NORT

Be Legendary





Facing West and Upwards. Diagonal Crack to West Backwall South End.



Facing West. Vertical Crack to West Backwall North of Girder 1.

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Facing NE and Upwards. Rusting to Girder 2 near Pier 2.



Facing North and Upwards. Rust Staining to South Curb Soffit in Span 1.

NORTH

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Facing NW. Rusting to Girder 4 in Span 1.



Facing West and Upwards. Effectiveness of Coating underside bottom flange of Girder in Span 1

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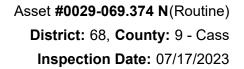
Facing NW and Upwards. Delamination to North curb Soffit in Span 1.



Facing South and Upwards. Peeling of Coating to Girder 1 Top Flange in Span 2.

NORTH

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Facing West and Upwards. Underside Deck Seepage and Efflorescence in Span 2.



Facing NW and Downward. Erosion and Undermining area along Pier 2 Cap Footing South End.

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Facing NW and Downward. Continued Erosion and Undermining to Pier 2 Cap Footing in-between Columns 3 and 4.



Facing SW. Erosion area along Pier 2 Cap Footing from Columns 3 to 4.

NORTH

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Facing NW and Upwards. South Curb Soffit Exposed Rebar in Span 3.



Facing NW and Upwards. Spalling with Exposed Rebar to South Railing at Post 23.



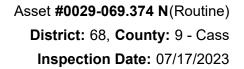


Facing North and Upwards. Areas of Delamination to South Deck Soffit in Span 2.



Facing North and Upwards. South Curb Soffit with Rust Staining in Span 2.

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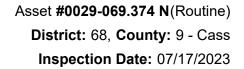
Facing East and Upwards. Underside Deck Seepage and Efflorescence in Span 2.



Facing NW and Upwards. Peeling of Coating down to bare metal along top flange of Girder 1 near Pier

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Be Legendary





Facing West and Upwards. Abrasion with some honeycombing to underside of deck near Pier 3.



Facing South and Upwards. Abrasion to Underside Deck in Span 3 in-between Girders 2 and 3.

NOR

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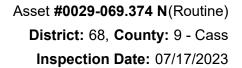
Facing South and Upwards. North Deck Soffit with Seepage and Efflorescence in Span 3.



Facing NW and Upwards. Delamination to South Railing Soffit at Post 22.

NORT

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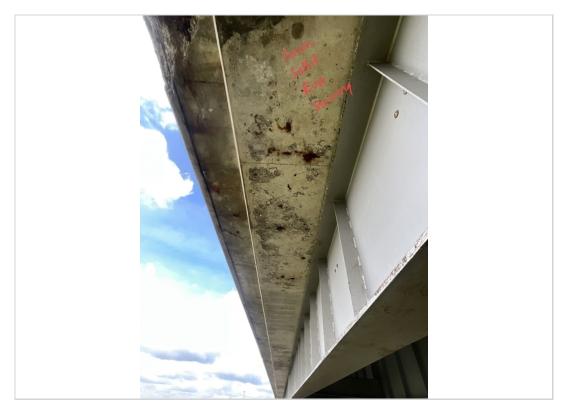


Facing East. Effectiveness of Coating to underside Girder 1 in Span 3.



Facing NE and Upwards. Rusting to underside bottom flanges of Girders in Span 3.





Facing West and Upwards. Rust Staining to South Deck Soffit in Span 3.



Facing NW. Moderate area of Cracking with Delamination to South Edge of Deck near East End.





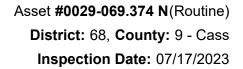
Facing West. Exposed Rebar to Pier 2 Column 4.



Facing South. East Embankment Slope along Abutment.

NORT

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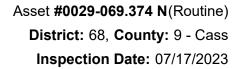
Facing NE. Patch Repair to South Soffit near SE Corner.



Facing East and Upwards. Underside Deck Delamination in-between Girders 3 and 4 near East End.

NORTH

Be Legendary





Facing SW. Peeling and Some bubbling of Coating to bottom flange of Girder 1 in Span 3.



Facing SW. Rusting to Bottom flange to Girder 1 in Span 3.





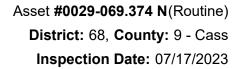
Facing East. Vertical Crack to East Abutment in-between Girders 1 and 2.



Facing East and Downward. Erosion and Undermining to East Abutment in-between Girders 1 and 2.

NORT

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Facing East. General area of Erosion along East Embankment Slope in-between Girders 1 and 2.



Facing East. Abrasion to East Abutment near North End.



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Facing SW. East Embankment Slope.



Facing East. Vertical Crack to East Backwall in-between Girders 2 and 3.

NORTH

KOTO Be Legendary





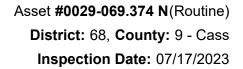
Facing West and Upwards. Underside Deck Cracking throughout. Typical.

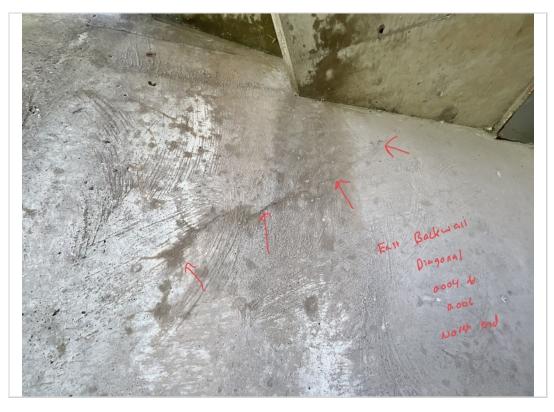


Facing East. Vertical Crack to East Backwall in-between Girders 1 and 2.

NORT

Be Legendary





Facing East and Upwards. Diagonal Crack to East Backwall North of Girder.



Facing East. Vertical Crack to East Abutment under Girder 2.

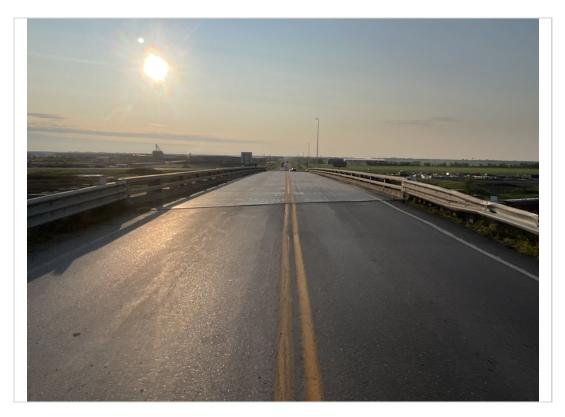
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Facing West. Approach View.



Facing East. Approach View.





Facing South and Downward. West Bridge End Joint.



Facing South. Guardrail Transition at SW Corner. Similar at NW Corner.

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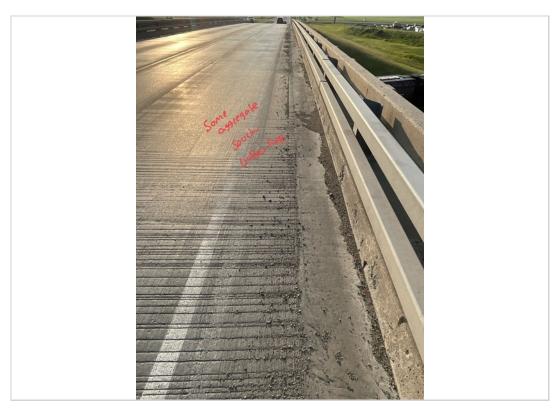


Facing SW. Vehicle Damage to W-Beam within SW Quadrant.



Facing South. Cracked Wood Posts within SW Guardrail Quadrant.



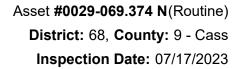


Facing East and Downward. Aggregate along South Gutter Line.



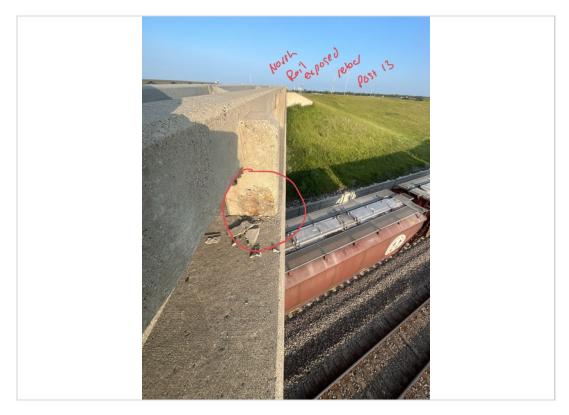
Facing East and Downward. Aggregate along North Gutter Line.

NOR





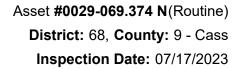
Facing East. General of Deck Wearing Surface



Facing West. Exposed Rebar to North Railing at Post 13.

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Be Legendary





Facing North. Exposed Rebar to North Railing Post 8.



Facing North. Delamination with Exposed Rebar to North Curb in-between Posts 3 and 4.

NORTH

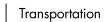




Facing NE. Exposed Rebar to North Curb from Posts 2 and 3.



Facing North. Exposed Rebar to North Railing at Post 1.



NORTH

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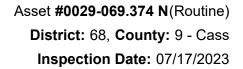


Facing North. Cracks to North Curb near NW Corner.



Facing NE. Delamination to North Curb from Posts 8-10.

NOR





Facing NE. Delamination to North Curb in-between Posts 19-20.



Facing NE. Exposed Rebar to North Railing Post 20.





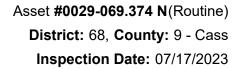
Facing West. Exposed Rebar to North Railing at Post 16.



Facing East and Downward. Longitudinal Cracks to Deck Wearing Surface East End.

NOR

Be Legendary





Facing West. Vehicle Impact to W-beam in NE Quadrant.



Facing SE and Downward. Blade Damage to Deck Wearing Surface East End WB Lane.

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Facing North. Cracking to North Curb near NE Corner.



Facing SW. Cracking with Rust Staining to North Curb from Posts 17-20.

NORTH

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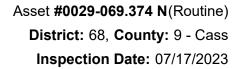
Facing East and Downward. Shear Crack to Deck Wearing Surface near NW Corner.



Facing South and Downward. Transverse Crack to Deck Wearing Surface WB Lane.

NORT

Be Legendary





Facing SE and Downward. Transverse Cracks to Deck Wearing Surface WB Lane.



Facing South and Downward. Transverse Crack to Deck Wearing Surface WB Lane.

NORTH

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Facing South. Exposed Rear to South Railing Post 19.



Facing South. Exposed Rebar to South Railing Post 14.





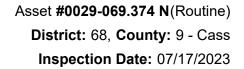
Facing East. Exposed Rebar to South Railing Post 11.



Facing NE. Exposed Rebar to South Railing Post 8.

NORTH

Be Legendary





Facing NW and Downward. Blade Damage to Deck Wearing Surface EB Lane West End.



Facing South. Rust Stains to South Curb from Posts 2-3

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Facing South. Exposed Rebar to South Curb near SW Corner.



Facing South. Delamination to South Curb Posts 7 and 8.

NORTH

CIKOTO Be Legendary



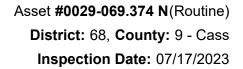


Facing South. Delamination to South Curb at Post 11.



Facing South. Delamination to South Curb in-betweeen Posts 14 and 15.

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Facing South. Crack to South Curb.



Facing South. Horizontal Crack to South Curb from Posts 4-5

NORTH

CIKOTC Be Legendary





Facing SW. Horizontal Crack to South Curb near Post 1.

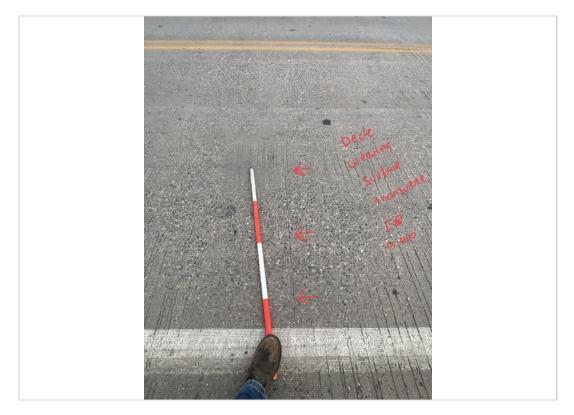


Facing East. Exposed Rebar to SE End Post.





Facing South. Rust Stains to South Curb from Posts 15-16



Facing North and Downward. Transverse Crack to Deck Wearing Surface EB Lane.





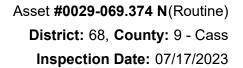
Facing North and Downward. Transverse Crack to Deck Wearing Surface EB Lane.



Facing East and Downward. Various Cracking to Deck Wearing Surface East End.

NORTH

Be Legendary





Facing South and Downward. Various Cracking to South Curb near SE Corner.



Facing South. Crack to South Curb in Span 3.

NORTH

KOTO Be Legendary



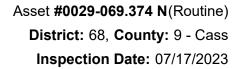


Facing East and Downward. Delamination to Underside Deck Span 1



Facing NE. Pier 2 Bearing 2 Minor Rusting.

NORTH





Facing East. Minor Horizontal Crack to Pier 2 Cap North of Bearing 1.



Facing South. Abrasion to Pier 2 Cap North End.





Facing South. Rusting to Pier 2 Bearing 1.



Facing NW. Effectiveness of Coating to Pier 3 Bearing 3.





Facing South. Pier 3 Bearing 1 Rusting with Limited Effectiveness of Coating.



Facing South. Horizontal Crack to North End of Pier 3 Cap.



NORTH

Be Legendary

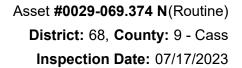


Facing East and Upwards. South Curb Soffit with Spalling and Exposed Rebar in Span 2.



Facing North. Effectiveness of Coating to Pier 2 Bearing 4.

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Facing North. Pier 2 Protection.



Facing North. Side View.



NORTH

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Facing West. Delamination to South Soffit in Span 2.



Facing West and Upwards. Rust Stains to South Soffit.



Transportation



Facing North. Rusting to Pier 3 Bearing 4.



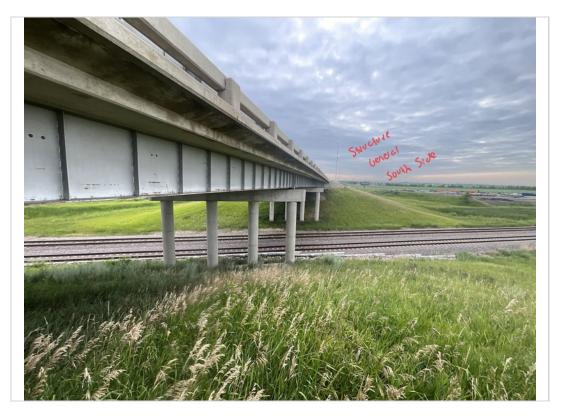
Facing West. Structure General along North Side.



Asset #0029-069.374 N(Routine) District: 68, County: 9 - Cass Inspection Date: 07/17/2023



Facing NE. Volunteer Tree Growth NE Corner.

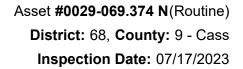


Facing East. Structure General along South Side.

Transportation

NORTH **akota**

Be Legendary.





Facing West. General of West Abutment.



Facing East. General of Pier 3.



Date Reported:	07/12/2021		
Priority:	Medium	Status:	Under Review
Type of Work:	Deck Edge Repair (P)	Component:	Element

Deficiency Description

Areas of Spalling, Delamination, and Rust Staining to South Edge of Deck and South Curb Soffit throughout Spans 1 to 3.

Remarks

Recommendation to remove delaminated Concrete and patch area. See Photo.



Facing South and Upwards. Exposed Rebar to South Deck Soffit in Span 1.



Facing NW and Upwards. South Curb Soffit Exposed Rebar in Span 3.



Facing NW and Upwards. Delamination to North curb Soffit in Span 1.



Facing North and Upwards. Areas of Delamination to South Deck Soffit in Span 2.

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Facing NW and Upwards. Delamination to South Railing Soffit at Post 22.



Facing East and Upwards. South Curb Soffit with Spalling and Exposed Rebar in Span 2.



Facing West. Areas of Seepage and Rusting staining to underside South Curb in Span 3.



Facing NW. Moderate area of Cracking with Delamination to South Edge of Deck near East End.



Facing West. Delamination to South Soffit in Span 2.



Facing West. Areas of Spalling along South Edge of Deck in span 3.



Date Reported:	07/12/2021		
Priority:	Medium	Status:	Under Review
Type of Work:	Repair Column	Component:	Element

Deficiency Description

Pier 3 Column 4 with Exposed rebar.

Remarks

Recommendation to remove any concrete, clean rebar and perform patch repairs to Column. See Photos.



Facing NW. Exposed Rebar to Pier 3 Column 4.



Date Reported:	07/12/2021		
Priority:	Medium	Status:	Under Review
Type of Work:	Remove Debris & Veg from Chnl	Component:	Bridge

Deficiency Description

Volunteer Tree Growth near NE Corner.

Remarks

Recommendation to remove tree. See Photo.



Facing NE. Volunteer Tree Growth NE Corner.



Date Reported:	07/12/2021		
Priority:	Medium	Status:	Under Review
Type of Work:	Repair Erosion	Component:	Bridge

Deficiency Description

Erosion and Undermining along West Abutment with an area of 16' L x 1" to 8" H x 1'-6" Undermined. Erosion to East Abutment with an area of 4' L x 1" to 2 1/2" H x 2' Undermined. Erosion and undermining to Pier 2 Cap Footing from Column 3 to Column 4. Area 16' L x 2" to 8" H x Entire Width Undermined.

Remarks

Recommendation to provide fill and grade along both Abutments and Pier 2 Cap Footing. See Photos.



Facing SW and Downward. Erosion and Undermining along West Abutment South End.



Facing SW and Downward. Continued Erosion along West Abutment from Girders 3 to 4.



Facing NW and Downward. Erosion and Undermining Depth to West Abutment.



Facing NW and Downward. Erosion and Undermining area along Pier 2 Cap Footing South End.

NORTH Transportation

Be Legendary.

Asset #0029-069.374 N(Routine) COUNTY HIGHWAY over BNRR Location: EAST OF NO. FARGO INTCHG Inspection Date: 07/17/2023



Facing NW and Downward. Continued Erosion and Undermining to Pier 2 Cap Footing in-between Columns 3 and 4.



Facing SW. Erosion area along Pier 2 Cap Footing from Columns 3 to 4.



Facing East and Downward. Erosion and Undermining to East Abutment in-between Girders 1 and 2.



Facing East. General area of Erosion along East Embankment Slope in-between Girders 1 and 2.



Date Reported:	07/26/2021		
Priority:	Medium	Status:	Under Review
Type of Work:	Remove Debris frm Deck / Shouldr	Component:	Element

Deficiency Description

Aggregate, Millings, and debris building up along North and South Gutter Lines.

Remarks

Recommendation to Sweep and clean out deck along Gutterlines. See Photos.



Facing East and Downward. Aggregate along South Gutter Line.



Facing East and Downward. Aggregate along North Gutter Line.



Date Reported:	07/26/2021		
Priority:	Medium	Status:	Under Review
Type of Work:	Apply Healer / Sealer to Deck	Component:	Element

Deficiency Description

All cracking to Deck Wearing Surface are unsealed. Most of the Cracks are in the WB Lane.

Remarks

Recommendation to apply appropriate sealant to cracking per the Maintenance Manual. See Photos.



Facing East and Downward. Various cracking to Deck Wearing Surface in the EB Lane near East End.



Facing North and Downward. Transverse crack to Deck Wearing Surface in Span 3 of the EB Lane.



Facing South and Downward. Transverse cracking to Deck Wearing Surface in the WB Lane of Span 2.



Facing SE and Downward. Longitudinal Cracking to Deck Wearing Surface in the WB Lane near East End.



Date Reported:	07/26/2021		
Priority:	Medium	Status:	Under Review
Type of Work:	Maintain General Safety Features	Component:	Approach

Deficiency Description

Vehicle Impact to W-Beam with the SW and NE Quadrants with a broken wood post in the NE Quadrant. 2 Cracked Wood Posts within SW Quadrant behind Thrie Beam.

Remarks

Recommendation to remove and replace sections of W-Beam in the SW and NE Quadrants along with the cracked wood posts. See Photos.



Facing East. Vehicle Impact to W-Beam within SW Quadrant.



Facing East. Guardrail impact Damage to W-Beam within the NE Quadrant.



Facing SE. Another View of the Vehicle Impact to the W-Beam with the SW Quadrant.



Facing West. Vehicle Impact Damage with cracked wood post within NE Quadrant.