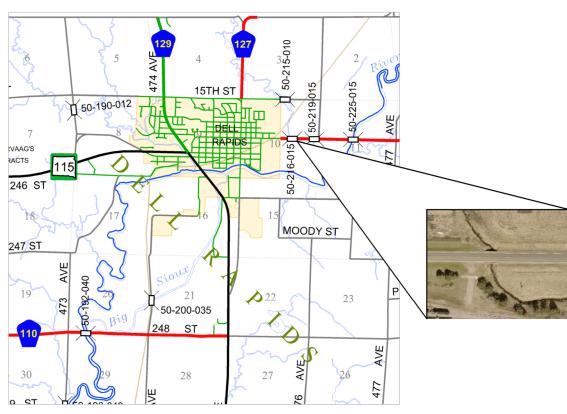
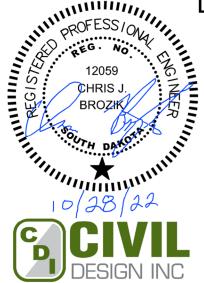
Bridge Inspection Report for Minnehaha County South Dakota 2022

Structure No. 50-216-015 Jasper Street / Co. Hwy 104









Repair and Posting Recommendations Bridges Maintained by Local Governments

Structure No.	50-216-015	Hwy or Street Jasper St. / Co. Hwy. 104					
FA Route No.	6250	Agency Responsible for Maintenance Minnehaha Co.					
Location	1.2 miles east and 0.2 miles north	of Dell Rapids, SD.					
Bridge Description	34.0 ft Three Span Continuous C	oncrete Bridge with Concrete Abutments.					
_	0 Degree Skew - 30.2 ft Roadway	y Width.					
Date Inspected	6/16/2022	Year Built 1922 - Reconstructed 1966					

Posting Recommendations

Single Unit - N.A. tons Current Posting: Not Posted

Combinatior - N.A. tons Legal Loads: No Load Posting Required

Legal Loads Based on Article 6.1.4 of AASHTO "The Manual for Bridge Evaluation", Third Edition

Repair, Rehabilitation, and/or Replacement Recommendations

- 1. Install bridge railing rubrails and approach guardrails as required.
- 2. Install NE object marker that is damaged and lying on ground.
- 3. Straighten the 1st delineator along the NW approach.
- 4. Clean and repair/patch areas of scaling, spalling, and exposed rebar on the underside of the concrete slab.
- Clean and repair/patch areas of deterioration and honeycombing at the center columns in the east & west bents.
- 6. Patch hole in slab along south side of original slab in west span.
- 7. Monitor underside of concrete slab for continued deterioration.
- 8. Structure is currently in the 5-year capital improvement plan & scheduled for future replacement.

The South Dakota Department of Transportation is required by Federal Statute to maintain an inventory of all bridges on all public traveled routes. Therefore, it is important that County and City Officials report any changes on bridges on their system. Examples of changes which should be reported are: Replacement of an existing bridge with pipe or new bridge, safety updated, rehabilitation or repair of an existing bridge etc. Changes should be reported to: South Dakota Department of Transportation, Local Government Assistance, Pierre, South Dakota, 57501.

RECOMMENDATIONS MADE BY:	Clan Oggo	DATE:	6/16/2022
	Chris Brozik, P .E.		

Bridge Inspection Report

Structure No.	50-216-015	Maint. Pr	oj. No		
Feature Carried	Jasper St. / Co. Hwy. 104	County	Minnehaha Co.		
Feature Crossed	Unnamed Tributary to Big Siou	x River			
Location	1.2 miles east and 0.2 miles nor	th of Dell Ra	pids, SD.		
Bridge Description	34.0 ft Three Span Continuous	Concrete Bri	dge with Concrete Abutments.		
	0 Degree Skew - 30.2 ft Roadw	ay Width.			
		_		_	
Date Inspected]	Inspectors		Tem	perature
06/16/22	Chris Brozik,	P.E. & Anth	ony Peters	63	Deg F

Approach - Items 65.00 - 65.09

- 1. ALIGNMENT The vertical and horizontal alignments are good.
- 2. CONDITION Bituminous Smooth.
- 3. JOINTS None
- 4. GUARD RAILS None
- 5. EMBANKMENT Good No sign of erosion behind the wingwalls. There is a CMP culvert underneath the roadway approach off the SW corner of the structure which discharges into the channel just off the end of the SW wingwall. There is some erosion evident off the end of the culvert, but it does not appear to be endangering the structure.
- 6. DRAINAGE The drainage of the roadway is good.
- 7. SIGNAGE Type 2 Object Markers At all four (4) corners of the structure. The NE object marker is damaged and lying on the ground.

Delineators - There are four (4) delineators located off the NW, NE, and SE corners and three (3) delineators located off the SW corner of the structure. The first delineator along the SW approach was not installed due to a residential entrance. The 1st delineator along the NW approach is slightly bent forward. Otherwise, the delineators appear to be in relatively good condition.

8. GPS COORDINATES Latitude: 43.82602 North Longitude: -96.69411 West

Deck - Items 58.00 - 58.17

1. DECK CONDITION - CRACKING, SCALING, SPALLING, AND DELAMINATIONS -

Cast-in-place concrete - The top surface of the concrete slab is not visible due to the bituminous overlay.

2. OVERLAY - TYPE, THICKNESS, AND CONDITION -

Bituminous - Approximate 6-inch average depth, smooth. Light vegetation growth is evident along edges of overlay.

3. JOINTS - OPENINGS - None

4. DRAINS - None

5. CURBS AND MEDIAN - Cast-in-place concrete - Some vertical hairline cracks and areas of light

scaling and rust staining are evident throughout. Overall, the concrete

curbs appear to be in relatively good condition.

6. SIDEWALKS - None

7. RAILING OR BARRIER - The railings consist of a painted steel channel mounted on painted double

steel angle posts. The paint on the railing members appears to be in fair

to good condition with some areas of surface rust evident.

8. LIGHTING - None

9. UTILITIES - None

10. DECK DELAMINATION SURVEY - Unable to perform a deck delamination survey due to the

bituminous overlay.

Superstructure - Items 59.00 - 59.20

1. UNDERSIDE OF DECK -

Cast-in-place concrete - The original structure appears to have been widened approximately 7 ft along both sides. A significant amount of spalling is evident along the south side of the original slab in all spans and along north side of original slab in east span which have exposed reinforcing steel. The exposed portions of the reinforcing steel are heavily rusted with plating evident and moderate section loss, but does not appear to be affecting structure capacity at the time of inspection. Stalactites are evident along south side of original slab at the west and center spans. There are longitudinal hairline cracks and areas of light scaling evident throughout the original portion of the slab with a couple areas of efflorescence evident. Areas of light scaling are also evident on the underside of the widening portions of the concrete slab. There is an approximate 3"x5"x10" deep hole in the south side of the original slab in the west span which appears to extend to the bottom of the bituminous overlay.

- 2. BEARING DEVICES None
- 3. GIRDERS OR BEAMS STIFFENERS, WELDS, SPLICES, AND ETC. -

None

- 4. DIAPHRAGMS None
- 5. TRUSSES MAIN MEMBERS, PORTALS, BRACING, GUSSET PLATES, AND ETC. -

None

- 7. RIVETS OR BOLTS None
- 8. WELDS None
- 9. PAINT None
- 10. DRAINAGE SYSTEM None
- 11. UTILITIES None
- 12. REACTION UNDER LOAD No excessive deflection under heavy vehicle load.
- 13. COLLISION DAMAGE None evident.

Substructure - Items 60.00 - 60.05

- 1. ABUTMENTS -
 - A. WINGWALLS The wingwalls consist of cast-in-place concrete and are direct extensions of the backwalls. Some chips are evident along the tops of the wingwalls. It appears these chips occurred during the placement of the riprap.

 Overall, the wingwalls appear to be in relatively good condition.
 - B. BACKWALLS The backwalls consist of cast-in-place concrete. Both ends of the original backwalls were extended when the structure was widened. There are some areas of honeycombing evident in the original portions of the backwalls. A spall is evident at the north end of the original portion of the east backwall. The widening portions of the backwalls appear to be in relatively good condition.
 - C. FOOTINGS None
 - D. PILE CAPS None
- 2. PIERS OR BENTS -
 - A. CAPS Cast-in-place concrete The original concrete caps were extended when the structure was widened. Some areas of light to moderate scaling are evident throughout and some vertical hairline cracks are evident over the columns. Overall, the concrete bent caps appear to be in satisfactory condition.
 - B. COLUMNS Cast-in-place concrete There are five (5) concrete columns per bent (10 total columns). The original bents consisted of three (3) columns. The original end columns were added onto and an additional column was added at the ends of the bents when the structure was widened. A significant amount of deterioration and a lack of consolidation is evident towards the bottom of the center column in both bents.
 - C. FOOTINGS The portion of the concrete footings at columns #2 #5 in both bents have been exposed, but do not appear to be undermined.
- 3. GROUT PADS None
- 4. ANCHOR BOLTS None
- 5. PILES None visible.
- 6. BRACING None
- 7. PAINT None

Substructure - Items 60.00 - 60.05 (Continued)

- 8. MOVEMENT -
 - A. PLUMBNESS Everything appears vertical.
 - B. SETTLEMENT None evident.
 - C. HORIZONTAL None evident.

Channel and Channel Protection - Items 61.00 - 61.09

1. CHANNEL -

A. ALIGNMENT - The channel alignment is fair. It appears a RHF skew would better fit the

channel.

B. VEGETATION - Good

C. SCOUR - None

D. DEBRIS - None

E. FLOW LINE - Well defined.

2. EMBANKMENT EROSION - Minor amount of embankment erosion is evident in both the upstream

and downstream channels.

3. WATERWAY ADEQUACY - Appears adequate.

4. SPUR DIKES & JETTIES - None

5. WING DAMS - None

6. RIP RAP - A significant amount of riprap has been placed along NW channel bank,

in front of the wingwalls, and at the ends of the backwalls at the corners

of the structure.

7. OBSERVED HIGH WATER ELEVATION - Appears to be approximately 2 to 3 feet below the bottom of

the concrete slab.

8. STREAM BED - Appears relatively stable.

ELEMENT LEVEL INSPECTION (Main Span)

Str. No	50-216-015		Maint. Proj	. No.:					
	re Carried: Jasper St. / Co. Hwy.	104	1,141110,110,1	MRM:		County:	Minneha	ıha Co.	
	re Crossed: Unnamed Tributary t		Sioux River	11222124		County	1,111110110		
	on: 1.2 miles east and 0.2 miles north								
	Description: 34.0 ft Three Span C				ith Concr	ete Abutm	ents.		
U	0 Degree Skew - 30.2								
Length	· ·		way width:	30.2 ft		Deck wid	lth:	34.2 ft	
Deck A	Area: Length x Deck Width =	1,163	Sq. ft			Skew:	0 degree	S	
Inspec	tor(s): Chris Brozik, P.E. & Anthony	Peters	S		Date:	06/1	6/22		
		Elem	ent Condi	tion Sta	tes				
Elem						Quantity	in Condi	ition State	
Num	Element Description	Env	Quantity	Units	1	2	3	4	
38	Reinforced Concrete Slab	2	1,163	SF	425	630	108		
1090	Exposed Rebar	2		SF			68		
1080	Delamination/Spall/Patched Area	2		SF		430			
1130	Cracking	2		SF		200			
1120	Efflorescence/Rust Staining	2		SF			40		
1190	Abrasion/Wear	2		SF					
1900	Distortion	2		SF					
4000	Settlement	2		SF					
6000	Scour	2		SF					
7000	Damage	2		SF					
814	AC w/o Membrane Overlay	2	1,027	SF	1,027				
3230	Effectiveness	2		SF					
3210	Delam./Spall/Patched Area/Pothole	2		SF					
3220	Crack	2		SF					
7000	Damage	2		SF					
205	Columns, Reinforced Concrete	2	10	EA		8	2	 	
1090	Exposed Rebar	2		EA				 	
1080	Delamination/Spall/Patched Area	2		EA		8	2	 	
1130	Cracking	2		EA				1	
1120	Efflorescence/Rust Staining	2		EA				 	
1190	Abrasion/Wear	2		EA				 	
1900	Distortion	2		EA				1	
4000	Settlement	2		EA					
6000	Scour	2		EA				1	
7000	Damage	2		EA				1	
								+	
215	Abutment Deinferent Court		60	1.17	20	40		1	
215	Abutment, Reinforced Concrete	2	68	LF	28	40		1	
1090	Exposed Rebar	2		LF		40		+	
1080	Delamination/Spall/Patched Area			LF		40		1	
1130	Cracking	2		LF				I	

1120	Efflorescence/Rust Staining	2		LF		1	1	I	
1190	Abrasion/Wear	2		LF					
1900	Distortion	2		LF					
4000	Settlement	2		LF					
6000	Scour	2		LF					
7000	Damage	2		LF					
	-								
234	Pier Cap, Reinforced Concrete	2	68	LF	68				
1090	Exposed Rebar	2		LF					
1080	Delamination/Spall/Patched Area	2		LF					
1130	Cracking	2		LF					
1120	Efflorescence/Rust Staining	2		LF					
1190	Abrasion/Wear	2		LF					
1900	Distortion	2		LF					
4000	Settlement	2		LF					
6000	Scour	2		LF					
7000	Damage	2		LF					
330	Metal Bridge Railing	2	68	LF	68				
1010	Cracking	2		LF					
1020	Connection	2		LF					
1900	Distortion	2		LF					
1000	Corrosion	2		LF					
4000	Settlement	2		LF					
6000	Scour	2		LF					
7000	Damage	2		LF					
01.5			10.5	9.5	10.5				
816	Lead Based Paint	2	196	SF	196				
3420	Peeling/Bubbling/Cracking	2		SF					
3440	Effectiveness	2		SF					
3410	Chalking	2		SF					
7000	Damage	2		SF					
817	Non-Lead Based Paint	2		SF					
3420	Peeling/Bubbling/Cracking	2		SF			-	-	
3440	Effectiveness	2		SF					
3410	Chalking	2		SF					
7000	Damage	2		SF					
7000	Damage	-		DI.					
818	Metallized/Galvanized Coating	2		SF	 				
3420	Peeling/Bubbling/Cracking	2		SF					
3440	Effectiveness	2		SF			 	 	
3410	Chalking	2		SF			 	 	
7000	Damage	2		SF					
, 555	Duninge	 							

Bridge Inspection Digital Photo Log

<u>Structure No.</u> **50-216-015**

Photo Number:	Date:	Description:
1	6/16/2022	Approach looking East
2	6/16/2022	Approach looking West
3	6/16/2022	Profile looking North
4	6/16/2022	Profile looking South
5	6/16/2022	CMP Culvert Outlet at SW Corner of Structure
6	6/16/2022	NE Object Marker Damaged and on Ground
7	6/16/2022	1st NW Approach Delineator Slightly Bent
8	6/16/2022	Top of Bituminous Overlay looking West
9	6/16/2022	South Bridge Rail
10	6/16/2022	North Bridge Rail
11	6/16/2022	Typical Rail Post Condition
12	6/16/2022	Underside of Existing Slab, South side of East Span
13	6/16/2022	Underside of Existing Slab, North side of East Span
14	6/16/2022	Underside of Existing Slab, South side of Center Span
15	6/16/2022	Underside of Existing Slab, North side of Center Span
16	6/16/2022	Underside of Existing Slab, South side of West Span
17	6/16/2022	Underside of Existing Slab, North side of West Span
18	6/16/2022	Hole in underside of Slab, South side of West Span
19	6/16/2022	West Backwall
20	6/16/2022	East Backwall
21	6/16/2022	NE Backwall Spall
22	6/16/2022	Typical Configuration of Bent
23	6/16/2022	West Bent Center Column Honeycombing
24	6/16/2022	East Bent Center Column Honeycombing
25	6/16/2022	Typical Exposed Concrete Footing (West Bent Column #3 shown)
26	6/16/2022	Upstream Channel looking NW
27	6/16/2022	Downstream Channel looking South
28	6/16/2022	Riprap along NW Channel Bank
29	6/16/2022	Riprap in front of SE Wingwall
30	6/16/2022	Riprap in front of NE Wingwall



50-216-015_2022_1_CDI_Approach looking East



50-216-015_2022_2_CDI_Approach looking West



50-216-015_2022_3_CDI_Profile looking North



50-216-015_2022_4_CDI_Profile looking South



50-216-015_2022_5_CDI_CMP Culvert Outlet at SW Corner of Structure



50-216-015_2022_6_CDI_NE Object Marker Damaged and on Ground



50-216-015_2022_7_CDI_1st NW Approach Delineator Slightly Bent



50-216-015_2022_8_CDI_Top of Bituminous Overlay looking West



50-216-015_2022_9_CDI_South Bridge Rail



50-216-015_2022_10_CDI_North Bridge Rail



50-216-015_2022_11_CDI_Typical Rail Post Condition



50-216-015_2022_12_CDI_Underside of Existing Slab, South side of East Span



50-216-015_2022_13_CDI_Underside of Existing Slab, North side of East Span



50-216-015_2022_14_CDI_Underside of Existing Slab, South side of Center Span



50-216-015_2022_15_CDI_Underside of Existing Slab, North side of Center Span



50-216-015_2022_16_CDI_Underside of Existing Slab, South side of West Span



50-216-015_2022_17_CDI_Underside of Existing Slab, North side of West Span



50-216-015_2022_18_CDI_Hole in underside of Slab, South side of West Span



50-216-015_2022_19_CDI_West Backwall



50-216-015_2022_20_CDI_East Backwall



50-216-015_2022_21_CDI_NE Backwall Spall



50-216-015_2022_22_CDI_Typical Configuration of Bent



50-216-015_2022_23_CDI_West Bent Center Column Honeycombing



50-216-015_2022_24_CDI_East Bent Center Column Honeycombing



50-216-015_2022_25_CDI_Typical Exposed Concrete Footing (West Bent Column #3 shown)



50-216-015_2022_26_CDI_Upstream Channel looking NW



50-216-015_2022_27_CDI_Downstream Channel looking South



50-216-015_2022_28_CDI_Riprap along NW Channel Bank



 $50\hbox{-}216\hbox{-}015_2022_29_CDI_Riprap in front of SE~Wingwall}$



50-216-015_2022_30_CDI_Riprap in front of NE Wingwall

CHANNEL PROFILE

MINNEHAHA COUNTY STR. NO. 50-216-015

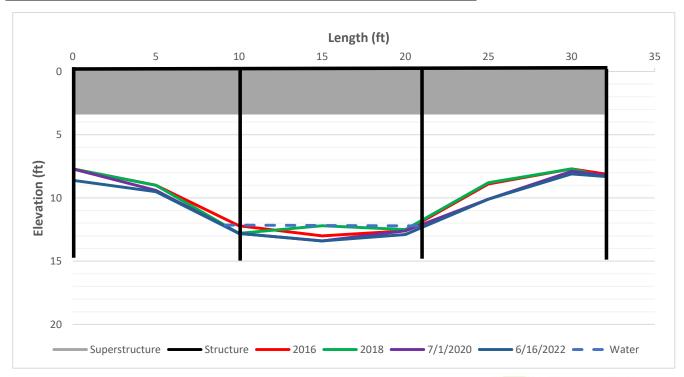
MEASUREMENTS TAKEN FROM THE TOP OF: RAIL
MEASUREMENTS TAKEN ON THE INLET SIDE OF THE STRUCTURE: NORTH

WATER ELEV: 12.6

		2016	2018	7/1/2020	6/16/2022	
West End	0	7.7	7.7	7.7	8.6	
	5	9.0	9.0	9.4	9.5	
	10	12.2	12.8	12.8	12.8	
	15	13.0	12.2	13.4	13.4	
	20	12.6	12.5	12.6	12.9	
	25	8.9	8.8	10.1	10.1	Top of RAII
	30	7.7	7.7	7.9	8.1	Superstruc
East End	32	8.1	8.3	8.2	8.3	

ABU1.	/REM I
1	0
2	10
3	21
4	32

Fop of RAIL to bottom of Superstructure 3.5 ft.



Note: Only Partial Set of Construction Plans are enclosed in SDDOT bridge inspection file.



	30-210-013	SDDOT
	General Bridge Data	Status
(8) STR NO : 50-216-015	(27) YEAR BUILT : 1922	SUFF RATE: 48.50
(7) FACILITY: JASPER ST, HWY 104	(106) RECONSTR: 1966	FED SUFF RATE : 63.40
(6) FEAT INTER: TRIB TO BIG SIOUX RV	(49) STR LENGTH: 34.00 ft	FED SR DATE : 03/14/2022
(9) LOCATION: 1.2E & 0.2N DELL RAPIDS	NBIS BRIDGE LENGTH: 32.00 ft	DEFICIENCY: S
INTERCHANGE : N	(48) MAX SPAN LENGTH: 11.00 ft	CANDIDATE : H
SECTION(S): 10 -1 -1 -1	Main (43A) MATERIAL : 2 Concrete Continuous	Deck Data
TOWNSHIP(S): 104N -1	Span (43B) DESIGN: 01 Slab	(108A) WEARING SURFACE : 6 Bituminous
RANGE(S): 49W -1	SD STR TYPE : X020	DECK PROTECTION : None
(2) REGION : Mitchell	(107) DECK STR TYPE : 1 Concrete-Cast-in-Place	OVERLAY THICKNESS: 6.00 in
(3) COUNTY : 50 MINNEHAHA	(52) DECK WIDTH: 34.20 ft	DECK DELAM AREA: 0.00 sq ft
(21) CUSTODIAN: 2 County Hwy Agency	(51) BRIDGE RDWY WIDTH: 30.20 ft	DECK DELAM DATE :
22) OWNER : 2 County Hwy Agency	(32) APPR RDWY WIDTH: 24.00 ft	DECK SURVEY:
MAINT PROJ :	(50A) LT SIDEWALK WIDTH: 0.00 ft	CHLORIDE: N
42A) SERV TYPE ON : 1 Highway	(50B) RT SIDEWALK WIDTH: 0.00 ft	RESTEEL DEPTH : N
42B) SERV TYPE UND : 5 Waterway	(34) SKEW : 0.00°	ELECTRO POTENT : N
103) TEMP STRUCTURE : Unknown (NBI)	SKEW DIR :	Load Rating Data
(99) BORDER BRIDGE STR NO : -1	(45) NO MAIN SPANS : 3	(41) OPER STATUS : A Open, no restriction
98A) NEIGHBOR STATE : Unknown (P)	(46) NO APPR SPANS : 0	(66) INV HS20 : 21.60 tons
(98B) PERCENT SHARE : -2.00	(31) DESIGN LOAD : 0 Unknown	(65) METHOD : 0 Field eval and docs
Highway Carried (NBI 5)	(33) BRIDGE MEDIAN : 0 No median	(64) OP HS20 : 36.00 tons
(5B) ROUTE PREFIX : 4 County Hwy	(35) STR FLARED : 0 No flare	(63) METHOD : 0 Field eval and docs
(5C) LEVEL OF SERVICE : 1 Mainline	Box Culvert Data	TRUCK TYPE 3 : 24.00 tons
5D) ROUTE NUMBER : 00000	BOX CULVERT SIZE : 0 X 0 X 0	TRUCK TYPE 3S2 : 40.00 tons
5E) DIRECT SUFFIX : 0 N/A (NBI)	FILL HT OVER BOX : 0.00 ft	TRUCK TYPE 3-2 : 46.00 tons
MRM ENGLISH : 0.00	LENGTH OF LONGEST CELL : 0.00 ft	
POSTED SPEED : 55 MPH	Rail Data	NRL: 40.00 tons
SCHOOL BUS RT : Y	(36) SAFETY FEAT : 0000	SHV-4: 27.00 tons
MAIL RT : Y	BRIDGE RAIL 1: 06 - STL DISCONT CHANNEL RAIL	SHV-5 : 31.00 tons
(104) NHS SYSTEM : 0 Not on NHS	RAIL TRANS 1:00 - NO TRANSITION PROVIDED	SHV-6 : 34.80 tons
FA ROUTE : 6250	APPR RAIL 1 : 00 - NO APPROACH RAIL	SHV-7: 38.80 tons
	APPR RAIL TERM 1 : 00 - NO TERMINALS PROVIDED	EV2: tons
(26) FUNC CLASS: 07 Rural Mjr Collector (28A) LANES: 2	NBI Prop Work	EV3: tons
,	(75A) WORK TYPE : 31 Repl-Load Capacity	BARS NO : JDG
102) DIRECTION TRAFFIC : 2 2-way traffic	(75B) WORK BY : 1 Contract	Hydraulics
105) FED LANDS HWY : 0 N/A (NBI)	(76) IMPROV LENGTH : 184.06 ft	DRAINAGE AREA : 3.35 sq mi
19) DETOUR : 9.00 mi	(94) BRIDGE IMPROV COST : \$263,756.00	OBSERV HW ELEV : 0.00 ft
29) ADT TOTAL : 1120.00		YEAR: 01/01/1901
30) YEAR OF ADT : 2021	(95) RDWAY IMPROV COST : \$26,376.00	DESIGN FREQ: 0.00
109) % TRUCK : 3.00 %	(96) TOTAL PROJECT COST : \$449,960.00	DESIGN FLOW: 0.00 cfs
53) MIN V CLR RT : 99.99 ft	(97) YEAR OF IMPROV COST : \$2,018.00	
53) MIN V CLR LT : 0.00 ft	(114) ADT FUTURE : 1400.00	DESIGN VELOCITY: 0.00 fps
10) MAX V CLR RT : 99.99 ft	(115) YEAR OF ADT FUTURE : 2036	DESIGN AREA : 0.00 sq ft
10) MAX V CLR LT : 0.00 ft	Steel Paint	DESIGN YEAR:
47) HORIZ V CLR RT : 30.20 ft	UNDERCOAT:	DESIGN HW ELEV : ft
47) HORIZ V CLR LT : 0.00 ft	TOPCOAT:	100 YEAR FLOW: 0.00 cfts
GIS Data	YEAR :	100 YEAR HW ELEV : ft
ATITUDE : 43.82602	COLOR:	V MAX : fps
ONGITUDE : -96.69411		SCOUR SCREENING : 2
DATE: 03/28/2016		SCOUR RATING : U
COMMENT : Calculated GIS INFO		TOPEKA SHINER : N
		Rail Paint
		UNDERCOAT : LEAD-BASED PAINT
		TOP COAT : LEAD-BASED PAINT
		YEAR:

50-216-015

Bridge Design SDDOT

COLOR : ORANGE

Highway Carried (Under Record) Project Number PCN none 01/01/1922 NA (5A) RECORD TYPE: (54) MIN V CLR RT : (5B) ROUTE PREFIX: (54) MIN V CLR LT : (5C) LEVEL OF SERVICE : (10) MAX V CLR RT: (5D) ROUTE NUMBER: (10) MAX V CLR LT: (5E) DIRECT SUFFIX: (47) HORIZ CLR RT: MRM: (47) HORIZ CLR LT: (55) OUT UNDCLR RT: ADM JUR : (104) NHS SYSTEM: (55) OUT UNDCLR LT: (56) MED UNDCLR RT : FA ROUTE : (56) MED UNDCLR LT : (26) FUNC CLASS: (28B) LANES : (101) DIRECTION OF TRAFFIC: (19) DETOUR LENGTH: mi (29) ADT: (30) ADT YEAR:

Inspection

GENERAL COMMENT : -1
REGION COMMENT : -1
FREE COMMENT : -1

INSPECTION TYPE	LAST INSPECTION DATE	REQUIRED	INSPECTION FREQUENCY	NEXT INSPIDATE
NBI	06/16/2022		24 month(s)	06/16/2024
FRACTURE CRITICAL	NA	N	NA	NA
UNDERWATER	NA	N	NA	NA
SPECIAL	NA	N	NA	NA
ELEMENT INSPECTION	06/16/2022		24 month(s)	06/16/2024

INSPKEY: BHSS
APPRAIS BY: CLB
APPRAIS DATE: 10/03/2022
QA INSPECTOR:
QA INSP DATE:
LAST INSPECTION BY:
CONSULTANT CODE: CIVIL DESIGN

Condition Ratings Appraisal Ratings

(58) DECK: 4 (59) SUPER: 4 (60) SUB: 5 (62) CULVERT: N (113) SCOUR: U (61) CHANNEL: 6 APPROACH: 7

STR APPR: 4 -1
DECK GEOM: 5 -1
UNDERCLR: N -1
WATERWAY: 8 -1
APPR ALIGN: 8 -1
BR POST: 5 LEGAL LOADS
SCOUR SCREENING: 2

SCOUR RATING : U

Elements	Unit	ID	Env	Quantity	Units	Q 1	Q 2	Q 3	Q 4
e Concrete Slab	MAIN	38	2	1163.00	sq.ft	425.00	630.00	108.00	0.00
Cast-in-place concrete - The top surface Cast-in-place concrete - The original strue evident along the south side of the origin exposed portions of the reinforcing steel capacity at the time of inspection. Stalact cracks and areas of light scaling evident are also evident on the underside of the original slab in the west span which appear	icture appea al slab in all are heavily i tites are evic throughout t widening poi	rs to ha spans a rusted v dent alo the origi	and ald ald ald ald ald ald ald ald ald al	en widened approximately ong north side of original s ating evident and moderate ith side of original slab at t rtion of the slab with a cou oncrete slab. There is an a	7 ft along lab in east e section lo he west ar ple areas opproximate	both sides. A signi span which have obs, but does not a nd center spans. The of efflorescence ev	exposed reinforcin ppear to be affecti nere are longitudir rident. Areas of lig	g steel. The ng structure aal hairline ht scaling	
Delamination/Spall/Patched Area	MAIN	1080	2	430.00	sq.ft	0.00	430.00	0.00	0.00
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Exposed Rebar	MAIN	1090	2	68.00	sq.ft	0.00	0.00	68.00	0.00
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Efflorescence/Rust Staining	MAIN	1120	2	40.00	sq.ft	0.00	0.00	40.00	0.00
— Cracking (RC and Other)	MAIN	1130	2	200.00	S0 # 1	0.00	200.00	0.00	0.00
Cracking (RC and Other)	INIAIN	1130	2	200.00	sq.ft	0.00	200.00	0.00	0.00
-							T	, , , , , , , , , , , , , , , , , , , 	
- AC w/a Mambrana Ovarlay		814	2	1,027.00	sq.ft	1,027.00	0.00	0.00	0.00
AC w/o Membrane Overlay	MAIN	014	_	1,021.00					
Bituminous - Approximate 6-inch ave						dges of overlay.		,	
Bituminous - Approximate 6-inch ave	rage depth,	smooth	. Light	vegetation growth is evide	ent along e	0.00	8.00	2.00 The original	0.00
Bituminous - Approximate 6-inch ave	MAIN 5) concrete conditional column	205 columns	. Light 2 s per best adde	vegetation growth is evided 10.00 ent (10 total columns). The d at the ends of the bents	ent along e each e original b when the s	0.00 ents consisted of t	8.00 hree (3) columns.	The original	
Bituminous - Approximate 6-inch ave Re Conc Column Cast-in-place concrete - There are five (5 end columns were added onto and an addeterioration and a lack of consolidation Delamination/Spall/Patched Area - Re Conc Abutment	MAIN 5) concrete odditional coluis evident to	205 columns mm was wards ti	Light 2 s per bes adde the bottom 2	vegetation growth is evide 10.00 ent (10 total columns). The d at the ends of the bents tom of the center column i 10.00 68.00	ent along e each e original b when the s n both ben each ft	0.00 ents consisted of t structure was wide ts. 0.00	8.00 hree (3) columns. ned. A significant 8.00	The original amount of 2.00	0.00
Bituminous - Approximate 6-inch ave Re Conc Column Cast-in-place concrete - There are five (\$\frac{1}{2}\$ end columns were added onto and an acdeterioration and a lack of consolidation	MAIN MAIN	205 columns amn was wards to 1080 215 an ends columns of the latively are directions.	. Light 2 s per bes adde the bottom 2 2 of the ce backy good cet external contents and contents are contents and contents are contents and contents are contents and contents are content	vegetation growth is evided 10.00 ent (10 total columns). The d at the ends of the bents tom of the center column is 10.00 68.00 original backwalls were extended by the condition. condition.	ent along e each e original b when the s n both ben each ft ended whe the north e ome chips	0.00 ents consisted of t structure was wide ts. 0.00 28.00 en the structure was end of the original pare evident along	8.00 hree (3) columns. ned. A significant 8.00 40.00 as widened. There portion of the east the tops of the wir	The original amount of 2.00 0.00 are some backwall. The	0.00
Bituminous - Approximate 6-inch average Conc Column Cast-in-place concrete - There are five (§ end columns were added onto and an addeterioration and a lack of consolidation Delamination/Spall/Patched Area - Re Conc Abutment The backwalls consist of cast-in-place columning portions of the backwalls appear The wingwalls consist of cast-in-place columning appears these chips occurred during the Delamination/Spall/Patched Area	MAIN Doncrete. Both iginal portion ar to be in reconcrete and a placement of	205 columns amn was wards to 1080 215 an ends of the latively are directly for the right.	s per boto s adde boto 2 2 2 2 2 ct backs good ct extee brap. C	vegetation growth is evided 10.00 ent (10 total columns). The d at the ends of the bents tom of the center column is 10.00 68.00 original backwalls were extended by the evident at condition. ensions of the backwalls. Soverall, the wingwalls appears	ent along e each e original b when the s n both ben each ft ended whe the north e ome chips ear to be in	0.00 ents consisted of t structure was wide ts. 0.00 28.00 en the structure was end of the original pare evident along relatively good co	8.00 hree (3) columns. ned. A significant 8.00 40.00 as widened. There portion of the east the tops of the wir ndition.	The original amount of 2.00 0.00 are some backwall. The ngwalls. It	0.00
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Action	Agency	Agency	Assigned	Rec.	Str No	Assigned	Notes	Target
	Status	Priority	to	Date		То		Year
			No					