

# Bridge Summary Report

**State Name (1):** 46 - South Dakota

**Structure Number (8):** 000000050216015

**Inspection Date (90):** June 2022

## Identification and Location

Highway Agency District (2): 02 - Mitchell Region

County Name (3): 099 - Minnehaha County

Place Code (4): 16020

Features Intersected (6A): TRIB TO BIG SIOUX RV

Facility Carried By Structure (7): JASPER ST, HWY 104

Location (9): 1.2E & 0.2N DELL RAPIDS

Mile Point, miles (11): 0

Latitude, decimal (16): 43.826023

Longitude, decimal (17): -96.69411

Maintenance Responsibility (21): 2 - County Highway Agency

Owner (22): 2 - County Highway Agency

Year Built (27): 1922

Historical Significance Code (37): 5 - Not National Register eligible

Neighboring State Code (98A):

Neighboring State Percent Responsibility (98B):

Border Bridge Structure Number (99):

Parallel Structure Designation Code (101): N - No parallel structure

Year Reconstructed (106): 1966

## Structure Type and Materials

Main Span Material (43A): 2 - Concrete Continuous

Main Span Design (43B): 1 - Slab

Approach Spans Material (44A): 0 - Other Material Main or N/A (No Ot ...

Approach Spans Design (44B): 0

Number of Spans in Main Unit (45): 3

Number of Approach Spans (46): 0

Deck Structure Type Code (107): 1 - Concrete Cast-in-Place

Wearing Surface Type Code (108A): 6 - Bituminous

Membrane Type Code (108B): 0 - None

Deck Protection Code (108C): 0 - None

## Dimensions and Clearances

Inventory Route - Minimum Vertical Clearance, ft. (10): "9999"

Approach Roadway Width, ft. (32): 24

Bridge Median Code (33): 0 - No Median

Skew Angle, degrees (34): 0

Structure Flared (35): 0 - No flare

Navigation Control Code (38): 0 - No Permit Required

Navigation Vertical Clearance, ft. (39): 0

Navigation Horizontal Clearance, ft. (40): 0

Inventory Route Total Horizontal Clearance, ft. (47): 30.2

Length of Maximum Span, ft. (48): 11.2

Structure Length, ft. (49): 34.1

Left Curb/Sidewalk Width, ft. (50A): 0

Right Curb/Sidewalk Width, ft. (50B): 0

Bridge Roadway Width Curb to Curb, ft. (51): 30.2

Deck Width - Out to Out, ft. (52): 34.1

Minimum Vertical Clearance Over Bridge Roadway, ft. (53): "9999"

Minimum Vertical Underclearance, ft. (54B): "000"

Minimum Lateral Underclearance on Right, ft. (55B): 0

Minimum Lateral Underclearance on Left, ft. (56): "000"

Pier Abutment Protection Code (111):

Minimum Vertical Clearance - Lift Bridge, ft. (116):

Deck Area, sq. ft.: 1164.2

## Inspection

Inspection Date (90): June 2022

Designated Inspection Frequency (91): 24

Fracture Critical Details (92A): N Not needed

Underwater Inspection (92B): N Not needed

Other Special Inspection (92C): N

Fracture Critical Detail Date (93A):

Underwater Inspection Date (93B):

Other Special Inspection Date (93C):

## Condition Rating and Evaluation

Bridge Railings (36A): 0 - Does not meet currently acceptable standa ...

Transitions (36B): 0 - Does not meet currently acceptable standards

Approach Guardrail (36C): 0 - Does not meet currently acceptable sta ...

Bridge Guardrail Ends (36D): 0 - Does not meet currently acceptable ...

Deck Condition Rating (58): 4 - Poor Condition

Superstructure Condition Rating (59): 4 - Poor Condition

Substructure Condition Rating (60): 5 - Fair Condition

Channel and Channel Protection Condition Rating (61): 6 - Channel re ...

Culverts Condition Rating (62): N - Not a culvert

Structural Evaluation Appraisal (67): 4 - Minimum Tolerable

Deck Geometry Appraisal (68): 5 - Better Than Minimum Adequacy

Underclearance Appraisal Vertical and Horizontal (69): N - N/A

Waterway Adequacy Appraisal (71): 8 - Equal to Present Desirable Cri ...

Approach Alignment Appraisal (72): 8 - Equal to Present Desirable Cr ...

Scour Critical Bridges Code (113): U - Not Evaluated; Unknown Founda ...

## Load Rating and Posting

Design Load Descriptor (31): 0 - Unknown

Structure Operational Status Code (41): A - Open

Operating Rating Method Code (63): 0 - Field evaluation and document ...

Operating Rating, US tons (64): 36

Inventory Rating Method Code (65): 0 - Field evaluation and document ...

Inventory Rating, US tons (66): 21.6

Bridge Posting Code (70): 5 - Equal to or above legal loads

## Traffic and Roadway Data

Record Type (5A): 1 - On Structure

Route Signing Prefix Code (5B): 4 - County Highway

Designated Level of Service Code (5C): 1 - Mainline

Route Number (5D): 00000

Directional Suffix Code (5E): 0 - Not Applicable

Base Highway Network (12): 0 - Not on Base Network

Bypass or Detour Length, miles (19): 8.7

Toll Status (20): 3 - On Free Road

Functional Class Of Inventory Route (26): 7 - Rural Major Collector

Lanes On the Structure (28A): 2

Lanes Under the Structure (28B): 0

Average Daily Traffic (29): 1,120

Year of Average Daily Traffic (30): 2021

Type of Service on Bridge Code (42A): 1 - Highway

Type Of Service Under Bridge Code (42B): 5 - Waterway

STRAHNET Highway Designation (100): 0 - Not STRAHNET

Direction of Traffic Code (102): 2 - 2 - way traffic

Inventory Route NHS Code (104): 0 - Not on NHS

Federal Lands Highways Code (105): 0 - N/A

Average Daily Truck Traffic (Percent ADT) (109): 3

Designated National Truck Network Code (110): 1 - On National Truck ...

Future Average Daily Traffic (114): 1,176

Year of Future Average Daily Traffic (115): 2036

## MPO, Political Districts, and Cities

Metropolitan Planning Organization (MPO):

U.S. Congressional District: 00 - Congressional District (at Large)

State Senate District: 025 - State Senate District 25

State House District: 025 - State House District 25

City (InfoBridge Place Code-Name): 0 - No Place Code

# Bridge Summary Report

**State Name (1):** 46 - South Dakota

**Structure Number (8):** 000000050219015

**Inspection Date (90):** June 2022

## Identification and Location

Highway Agency District (2): 02 - Mitchell Region

County Name (3): 099 - Minnehaha County

Place Code (4): 16020

Features Intersected (6A): TRIB TO BIG SIOUX RV

Facility Carried By Structure (7): JASPER ST, HWY 104

Location (9): 1.5E & 0.2N DELL RAPIDS

Mile Point, miles (11): 0

Latitude, decimal (16): 43.82597

Longitude, decimal (17): -96.68737

Maintenance Responsibility (21): 2 - County Highway Agency

Owner (22): 2 - County Highway Agency

Year Built (27): 1938

Historical Significance Code (37): 5 - Not National Register eligible

Neighboring State Code (98A):

Neighboring State Percent Responsibility (98B):

Border Bridge Structure Number (99):

Parallel Structure Designation Code (101): N - No parallel structure

Year Reconstructed (106): 0

## Structure Type and Materials

Main Span Material (43A): 2 - Concrete Continuous

Main Span Design (43B): 1 - Slab

Approach Spans Material (44A): 0 - Other Material Main or N/A (No Ot ...

Approach Spans Design (44B): 0

Number of Spans in Main Unit (45): 2

Number of Approach Spans (46): 0

Deck Structure Type Code (107): 1 - Concrete Cast-in-Place

Wearing Surface Type Code (108A): 6 - Bituminous

Membrane Type Code (108B): 0 - None

Deck Protection Code (108C): 0 - None

## Dimensions and Clearances

Inventory Route - Minimum Vertical Clearance, ft. (10): "9999"

Approach Roadway Width, ft. (32): 24

Bridge Median Code (33): 0 - No Median

Skew Angle, degrees (34): 30

Structure Flared (35): 0 - No flare

Navigation Control Code (38): 0 - No Permit Required

Navigation Vertical Clearance, ft. (39): 0

Navigation Horizontal Clearance, ft. (40): 0

Inventory Route Total Horizontal Clearance, ft. (47): 24

Length of Maximum Span, ft. (48): 18

Structure Length, ft. (49): 36.4

Left Curb/Sidewalk Width, ft. (50A): 0

Right Curb/Sidewalk Width, ft. (50B): 0

Bridge Roadway Width Curb to Curb, ft. (51): 24.3

Deck Width - Out to Out, ft. (52): 27.2

Minimum Vertical Clearance Over Bridge Roadway, ft. (53): "9999"

Minimum Vertical Underclearance, ft. (54B): "000"

Minimum Lateral Underclearance on Right, ft. (55B): 0

Minimum Lateral Underclearance on Left, ft. (56): "000"

Pier Abutment Protection Code (111):

Minimum Vertical Clearance - Lift Bridge, ft. (116):

Deck Area, sq. ft.: 991.7

## Inspection

Inspection Date (90): June 2022

Designated Inspection Frequency (91): 24

Fracture Critical Details (92A): N Not needed

Underwater Inspection (92B): N Not needed

Other Special Inspection (92C): N

Fracture Critical Detail Date (93A):

Underwater Inspection Date (93B):

Other Special Inspection Date (93C):

## Condition Rating and Evaluation

Bridge Railings (36A): 0 - Does not meet currently acceptable standa ...

Transitions (36B): 0 - Does not meet currently acceptable standards

Approach Guardrail (36C): 0 - Does not meet currently acceptable sta ...

Bridge Guardrail Ends (36D): 0 - Does not meet currently acceptable ...

Deck Condition Rating (58): 4 - Poor Condition

Superstructure Condition Rating (59): 4 - Poor Condition

Substructure Condition Rating (60): 5 - Fair Condition

Channel and Channel Protection Condition Rating (61): 7 - Channel re ...

Culverts Condition Rating (62): N - Not a culvert

Structural Evaluation Appraisal (67): 4 - Minimum Tolerable

Deck Geometry Appraisal (68): 4 - Minimum Tolerable

Underclearance Appraisal Vertical and Horizontal (69): N - N/A

Waterway Adequacy Appraisal (71): 7 - Better Than Present Minimum Cr ...

Approach Alignment Appraisal (72): 8 - Equal to Present Desirable Cr ...

Scour Critical Bridges Code (113): U - Not Evaluated; Unknown Founda ...

## Load Rating and Posting

Design Load Descriptor (31): 0 - Unknown

Structure Operational Status Code (41): A - Open

Operating Rating Method Code (63): 0 - Field evaluation and document ...

Operating Rating, US tons (64): 36

Inventory Rating Method Code (65): 0 - Field evaluation and document ...

Inventory Rating, US tons (66): 21.6

Bridge Posting Code (70): 5 - Equal to or above legal loads

## Traffic and Roadway Data

Record Type (5A): 1 - On Structure

Route Signing Prefix Code (5B): 4 - County Highway

Designated Level of Service Code (5C): 1 - Mainline

Route Number (5D): 00000

Directional Suffix Code (5E): 0 - Not Applicable

Base Highway Network (12): 0 - Not on Base Network

Bypass or Detour Length, miles (19): 8.7

Toll Status (20): 3 - On Free Road

Functional Class Of Inventory Route (26): 7 - Rural Major Collector

Lanes On the Structure (28A): 2

Lanes Under the Structure (28B): 0

Average Daily Traffic (29): 1,111

Year of Average Daily Traffic (30): 2021

Type of Service on Bridge Code (42A): 1 - Highway

Type Of Service Under Bridge Code (42B): 5 - Waterway

STRAHNET Highway Designation (100): 0 - Not STRAHNET

Direction of Traffic Code (102): 2 - 2 - way traffic

Inventory Route NHS Code (104): 0 - Not on NHS

Federal Lands Highways Code (105): 0 - N/A

Average Daily Truck Traffic (Percent ADT) (109): 3

Designated National Truck Network Code (110): 1 - On National Truck ...

Future Average Daily Traffic (114): 1,167

Year of Future Average Daily Traffic (115): 2036

## MPO, Political Districts, and Cities

Metropolitan Planning Organization (MPO):

U.S. Congressional District: 00 - Congressional District (at Large)

State Senate District: 025 - State Senate District 25

State House District: 025 - State House District 25

City (InfoBridge Place Code-Name): 0 - No Place Code

# Bridge Summary Report

**State Name (1):** 46 - South Dakota

**Structure Number (8):** 000000050277015

**Inspection Date (90):** June 2022

## Identification and Location

Highway Agency District (2): 02 - Mitchell Region

County Name (3): 099 - Minnehaha County

Place Code (4): 38380

Features Intersected (6A): WEST PIPESTONE CREEK

Facility Carried By Structure (7): JASPER ST, HWY 104

Location (9): 7.3E & 0.2N DELL RAPIDS

Mile Point, miles (11): 0

Latitude, decimal (16): 43.826355

Longitude, decimal (17): -96.57829

Maintenance Responsibility (21): 2 - County Highway Agency

Owner (22): 2 - County Highway Agency

Year Built (27): 1940

Historical Significance Code (37): 2 - National Register eligible

Neighboring State Code (98A):

Neighboring State Percent Responsibility (98B):

Border Bridge Structure Number (99):

Parallel Structure Designation Code (101): N - No parallel structure

Year Reconstructed (106): 0

## Structure Type and Materials

Main Span Material (43A): 2 - Concrete Continuous

Main Span Design (43B): 1 - Slab

Approach Spans Material (44A): 0 - Other Material Main or N/A (No Ot ...

Approach Spans Design (44B): 0

Number of Spans in Main Unit (45): 4

Number of Approach Spans (46): 0

Deck Structure Type Code (107): 1 - Concrete Cast-in-Place

Wearing Surface Type Code (108A): 6 - Bituminous

Membrane Type Code (108B): 0 - None

Deck Protection Code (108C): 0 - None

## Dimensions and Clearances

Inventory Route - Minimum Vertical Clearance, ft. (10): "9999"

Approach Roadway Width, ft. (32): 24

Bridge Median Code (33): 0 - No Median

Skew Angle, degrees (34): 0

Structure Flared (35): 0 - No flare

Navigation Control Code (38): 0 - No Permit Required

Navigation Vertical Clearance, ft. (39): 0

Navigation Horizontal Clearance, ft. (40): 0

Inventory Route Total Horizontal Clearance, ft. (47): 24

Length of Maximum Span, ft. (48): 17.4

Structure Length, ft. (49): 70.9

Left Curb/Sidewalk Width, ft. (50A): 0

Right Curb/Sidewalk Width, ft. (50B): 0

Bridge Roadway Width Curb to Curb, ft. (51): 24.3

Deck Width - Out to Out, ft. (52): 27.2

Minimum Vertical Clearance Over Bridge Roadway, ft. (53): "9999"

Minimum Vertical Underclearance, ft. (54B): "000"

Minimum Lateral Underclearance on Right, ft. (55B): 0

Minimum Lateral Underclearance on Left, ft. (56): "000"

Pier Abutment Protection Code (111):

Minimum Vertical Clearance - Lift Bridge, ft. (116):

Deck Area, sq. ft.: 1929.8

## Inspection

Inspection Date (90): June 2022

Designated Inspection Frequency (91): 24

Fracture Critical Details (92A): N Not needed

Underwater Inspection (92B): N Not needed

Other Special Inspection (92C): N

Fracture Critical Detail Date (93A):

Underwater Inspection Date (93B):

Other Special Inspection Date (93C):

## Condition Rating and Evaluation

Bridge Railings (36A): 0 - Does not meet currently acceptable standa ...

Transitions (36B): 0 - Does not meet currently acceptable standards

Approach Guardrail (36C): 0 - Does not meet currently acceptable sta ...

Bridge Guardrail Ends (36D): 0 - Does not meet currently acceptable ...

Deck Condition Rating (58): 5 - Fair Condition

Superstructure Condition Rating (59): 5 - Fair Condition

Substructure Condition Rating (60): 6 - Satisfactory Condition

Channel and Channel Protection Condition Rating (61): 6 - Channel re ...

Culverts Condition Rating (62): N - Not a culvert

Structural Evaluation Appraisal (67): 5 - Better Than Minimum Adequa ...

Deck Geometry Appraisal (68): 4 - Minimum Tolerable

Underclearance Appraisal Vertical and Horizontal (69): N - N/A

Waterway Adequacy Appraisal (71): 7 - Better Than Present Minimum Cr ...

Approach Alignment Appraisal (72): 8 - Equal to Present Desirable Cr ...

Scour Critical Bridges Code (113): U - Not Evaluated; Unknown Founda ...

## Load Rating and Posting

Design Load Descriptor (31): 0 - Unknown

Structure Operational Status Code (41): A - Open

Operating Rating Method Code (63): 0 - Field evaluation and document ...

Operating Rating, US tons (64): 36

Inventory Rating Method Code (65): 0 - Field evaluation and document ...

Inventory Rating, US tons (66): 21.6

Bridge Posting Code (70): 5 - Equal to or above legal loads

## Traffic and Roadway Data

Record Type (5A): 1 - On Structure

Route Signing Prefix Code (5B): 4 - County Highway

Designated Level of Service Code (5C): 1 - Mainline

Route Number (5D): 00000

Directional Suffix Code (5E): 0 - Not Applicable

Base Highway Network (12): 0 - Not on Base Network

Bypass or Detour Length, miles (19): 8.7

Toll Status (20): 3 - On Free Road

Functional Class Of Inventory Route (26): 7 - Rural Major Collector

Lanes On the Structure (28A): 2

Lanes Under the Structure (28B): 0

Average Daily Traffic (29): 506

Year of Average Daily Traffic (30): 2021

Type of Service on Bridge Code (42A): 1 - Highway

Type Of Service Under Bridge Code (42B): 5 - Waterway

STRAHNET Highway Designation (100): 0 - Not STRAHNET

Direction of Traffic Code (102): 2 - 2 - way traffic

Inventory Route NHS Code (104): 0 - Not on NHS

Federal Lands Highways Code (105): 0 - N/A

Average Daily Truck Traffic (Percent ADT) (109): 3

Designated National Truck Network Code (110): 1 - On National Truck ...

Future Average Daily Traffic (114): 531

Year of Future Average Daily Traffic (115): 2036

## MPO, Political Districts, and Cities

Metropolitan Planning Organization (MPO):

U.S. Congressional District: 00 - Congressional District (at Large)

State Senate District: 025 - State Senate District 25

State House District: 025 - State House District 25

City (InfoBridge Place Code-Name): 0 - No Place Code