Indian Reservation Roads Program
Bridge Management System
Structure Inventory and Appraisal Sheet

A028

46 - South Dakota

REGION	**A - Great Plains**
AGENCY	**A06 - Pine Ridge**
RESERVATION	**A06344 - Pine Ridge**
BRIDGE NAME	**POTATO CREEK BRIDGE**
EFFECTIVE INSPECTION DATE	**03/12/2020**
SUFFICIENCY RATING	**075.5**
STATUS	**2-FO-Functionally Obsolete**

**********IDENTIFICATION**********

(1)	STATE	*46 - South Dakota*	
	FHWA REGION CODE		8
(8)	STRUCTURE NUMBER		A028
(5)	INVENTORY ROUTE (parts A,B,C,D,E)	1 6 1 00002	0
(2)	HIGHWAY AGENCY DISTRICT		04
(3)	COUNTY CODE		71
(4)	PLACE CODE		00000
(6)	FEATURES INTERSECTED		POTATO CREEK
(7)	FACILITY CARRIED		IRR BIA RTE 2
(9)	LOCATION		8.9 KM WEST OF SD HWY 44
(11)	KILOMETER POINT		78.2
(12)	BASE HIGHWAY NETWORK		0
(13)	LRS INVENTORY	route / subroute	
(16)	LATITUDE	43 deg 32 min	08.00 sec
(17)	LONGITUDE	101 deg 59 min	10.00 sec
(98)	BORDER BRIDGE STATE CODE	PERCENT SHARE	%
(99)	BORDER BRIDGE STRUCTURE #		

**********STRUCTURE TYPE AND MATERIAL**********

(43)	STRUCTURE TYPE MAIN		
	material	*2 - Concrete continuous*	2
	type	*01 - Slab*	01
(44)	STRUCTURE TYPE APPROACHES		
	material		
	type		
(45)	NUMBER OF SPANS IN MAIN UNIT		004
(46)	NUMBER OF APPROACH SPANS		0000
(107)	DECK STRUCTURE TYPE	*1 - Concrete Cast-in-Place*	1
(108)	WEARING SURFACE / PROTECTIVE SYSTEMS		
A)	TYPE OF WEARING SURFACE	*6 - Bituminous*	6
B)	TYPE OF MEMBRANE	*0 - None*	0
C)	TYPE DECK PROTECTION	*8 - Unknown*	8

**********AGE AND SERVICE**********

(27)	YEAR BUILT		1942
(106)	YEAR RECONSTRUCTED		0000
(42)	TYPE OF SERVICE on	*1 - Highway*	1
	under	*5 - Waterway*	5
(28)	LANES on		02
	under		00
(29)	AVERAGE DAILY TRAFFIC		001314
(30)	YEAR OF ADT		2020
(109)	% TRUCKS		10 %
(19)	BYPASS DETOUR LENGTH		032 km

**********GEOMETRIC DATA**********

(48)	LENGTH OF MAXIMUM SPAN		5.2 m
(49)	STRUCTURE LENGTH		20.7 m
(50)	CURB OR SIDEWALK left		0 .4 m
	right		0 .4 m
(51)	BRIDGE ROADWAY WIDTH CURB TO CURB		7.2 m
(52)	DECK WIDTH OUT TO OUT		8.1 m
(32)	APPROACH ROADWAY WIDTH (W/SHOULDERS)		8.4 m
(33)	BRIDGE_MEDIAN	*No Median*	0
(34)	SKEW		0 deg
(35)	STRUCTURE FLARED	*0 - No flare*	0
(10)	INVENTORY ROUTE MINIMUM VERTCAL CLEARANCE		99.99 m
(47)	INVENTORY ROUTE TOTAL HORIZONTAL CLEARANCE		07.3 m
(53)	MIN VERTICAL CLEARANCE OVER BRIDGE ROADWAY		99.99 m
(54)	MIN VERT UNDERCLEARANCE	ref N	00.00 m
(55)	MIN LAT UNDERCLEARANCE right	ref N	00.0 m
(56)	MIN LAT UNDERCLEARANCE left		00.0 m

**********NAVAGATION DATA**********

(38)	NAVAGATION CONTROL		0
(111)	PIER PROTECTION		
(39)	NAVAGATION VERTICAL CLEARANCE		000.0 m
(116)	VERT-LIFT BRIDGE NAV MIN VERT CLEARANCE		m
(40)	NAVAGATION HORIZONTAL CLEARANCE		0000.0 m

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(222)	BIA MAINTENANCE NON-URGENT COST		14,000 $
(223)	BIA MAINTENANCE URGENT COST		3,000 $
(224)	BIA TOTAL MAINTENANCE COST		17,000 $
(225)	BIA MAINTENANCE COST LAST 2 YEARS		$30,000 $

**********CLASSIFICATION**********

(112)	NBIS BRIDGE LENGTH		Y
		Y - yes	
(104)	HIGHWAY SYSTEM		0
		0 - Inventory Route is not on the NHS	
(26)	FUNCTIONAL CLASS		07
		07 - Rural-Major Collector	
(100)	STRAHNET	*0 - not a STRAHNET highway*	0
(101)	PARALLEL STRUCTURE	*No parallel structure exists*	N
(102)	DIRECTION OF TRAFFIC	*2 - 2-way traffic*	2
(103)	TEMPORARY STRUCTURE (Blank Indicates Not Temporary)		
(105)	FEDERAL LANDS HIGHWAYS	*- Indian Reservation Road (IR*	1
(110)	DESIGNATED NATIONAL NETWORK		0
		0 - Not part of the network	
(20)	TOLL		3
(21)	MAINTAIN	*62 - Bureau of Indian Affairs*	62
(22)	OWNER	*62 - Bureau of Indian Affairs*	62
(37)	HISTORICAL SIGNIFICANCE		5
	Bridge is not eligible for the National Register of Historic Place		

**********CONDITION**********

(58)	DECK	6
(59)	SUPERSTRUCTURE	6
(60)	SUBSTRUCTURE	6
(61)	CHANNEL & CHANNEL PROTECTION	6
(62)	CULVERTS	N

**********LOAD RATING AND POSTING**********

(31)	DESIGN LOAD		0
	0 - Other or Unknown (describe on inspection reporting form)		
(63)	OPERATING RATING METHOD	*Allowable Stress (AS)*	2
(64)	OPERATING RATING (metric tons)		44.1
(65)	INVENTORY RATING METHOD	*Allowable Stress (AS)*	2
(66)	INVENTORY RATING (metric tons)		32.4
(70)	BRIDGE POSTING	*5 - Equal or above legal loads*	5
(41)	STRUCTURE OPEN, POSTED OR CLOSED		A
	DESCRIPTION	*Open, no restriction*	

**********APPRAISAL**********

(67)	STRUCTURAL EVALUATION	6
(68)	DECK GEOMETRY	3
(69)	UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(71)	WATERWAY ADEQUACY	7
(72)	APPROACH ROADWAY ALIGNMENT	8
(36)	TRAFFIC SAFETY FEATURES (rail/trans/appr/appr ends)	0000
(113)	SCOUR CRITICAL BRIDGES	8

**********PROPOSED IMPROVEMENTS**********

(75)	TYPE OF WORK	34	1
	34 - Widening of existing bridge with deck rehabilitation or repl		
(76)	LENGTH OF STRUCTURE IMPROVEMENT	00021.0	m
(94)	BRIDGE IMPROVEMENT COST	160,000	$
(95)	ROADWAY IMPROVEMENT COST	75,000	$
(96)	TOTAL PROJECT COST	250,000	$
(97)	YEAR OF IMPROVEMENT COST ESTIMATE	2020	
(114)	FUTURE ADT	001537	
(115)	YEAR OF FUTURE ADT	2040	

**********INSPECTIONS**********

(90)	INSPECTION DATE	03/20	
(91)	FREQUENCY	24	mo

(92)	CRITICAL FEATURE INSPECTION		(93)	CFI DATE	
A)	FRACTURE CRIT DETAIL	N	A)	0 / 0	
B)	UNDERWATER INSP	N	B)	0 / 0	
C)	OTHER SPECIAL INSP	N	C)	0 / 0	