The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.

Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Info	ormation									43-14-53 =	084-33-23 = -
Michigan [26] Gratiot County [057]		57]	North Star [58880]		SEC 16-21 NORTH STAR TWP			43.248056	84.556389		
29200013	3000B010	Highway ag	hway agency district 4		Owner County Highway Agency [02]		2]	Maintenance responsibility		County Highway Agency [02]	
Route 2938 BUCHANAN ROAD					Toll On free road [3] Features intersected DRAIN #29				4		
		Design - approach  0	Kilometerpoint 2267.4 km = 1405.8 mi  Year built 1952 Year reconstructed Nother [00]  Skew angle 0 Structure Flared  Historical significance Bridge is not eligible for			econstructed N/A	[0000] he NRHP. [5]				
Total length 9.1 m = 29.9 ft Length of maximum span 8.8 m = 28.9 ft Deck width, out-to-out 8.9 m = 29.2 ft Bridge roadway width, curb-to-curb 7 m = 23.0 ft  Inventory Route, Total Horizontal Clearance 7.3 m = 24.0 ft Curb or sidewalk width - left 0 m = 0.0 ft Curb or sidewalk width - right 0 m = 0.0 ft											
Deck structure type  Concrete Cast-in-Place [				Place [1]							
Type of wearing surface Bituminous [6]											
Deck prote	ection										
Type of m	embrane/wea	aring surface									
Weight Li	mits										
Bypass, detour length  0.5 km = 0.3 mi  Method to determine inventory rating  Method to determine operating rating  Bridge posting  Equal to or above leg			,		owable Stress(AS)			ventory rating perating rating			
				, , ,			Design Load MS 18+Mod / HS 20+Mod [6]				

Functional Details								
Average Daily Traffic 910 Average daily tr	uck traffi 0 % Year 2003 Future average daily traffic 1230 Year 2023							
Road classification Major Collector (Rural) [07]	Lanes on structure 2 Approach roadway width 10.1 m = 33.1 ft							
Type of service on bridge Highway [1]	Direction of traffic 2 - way traffic [2]  Bridge median							
Parallel structure designation No parallel structure	e exists. [N]							
Type of service under bridge Waterway [5]	Lanes under structure 0 Navigation control							
Navigation vertical clearanc 0 = N/A	Navigation horizontal clearance 0 = N/A							
Minimum navigation vertical clearance, vertical lift bridge  Minimum vertical clearance over bridge roadway  99.99 m = 328.1 ft								
Minimum lateral underclearance reference feature Feature not a highway or railroad [N]								
Minimum lateral underclearance on right 99.9 = Unlimited Minimum lateral underclearance on left 0 = N/A								
Minimum Vertical Underclearance   0 = N/A   Minimum vertical underclearance reference feature   Feature not a highway or railroad [N]								
Appraisal ratings - underclearances N/A [N]								
Repair and Replacement Plans								
Type of work to be performed	Work done by							
	Bridge improvement cost Roadway improvement cost							
	Length of structure improvement Total project cost							
	Year of improvement cost estimate							
	Border bridge - state  Border bridge - percent responsibility of other state							
	Border bridge - structure number							

Inspection and Sufficiency									
Structure status Open, no res	striction [A]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]						
Condition ratings - superstructur	Good [7]	Appraisal ratings - roadway alignment Better than present minimum		criteria [7]					
Condition ratings - substructure	Poor [4]	Appraisal ratings -	Meets minimum tolerable limits to be left in place as is [4]						
Condition ratings - deck	Satisfactory [6]	deck geometry							
Scour	Bridge is scour critical; bridge	Bridge is scour critical; bridge foundations determined to be unstable. [3]							
Channel and channel protection	Bank protection is being erode channel. [5]	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]							
Appraisal ratings - water adequac	Better than present minimum	criteria [7]	Status evaluation	Structurally deficient [1]					
Pier or abutment protection			Sufficiency rating	52.6					
Culverts Not applicable. Used	if structure is not a culvert. [N]								
Traffic safety features - railings									
Traffic safety features - transition	ns								
Traffic safety features - approach	n guardrail								
Traffic safety features - approach	n guardrail ends								
Inspection date   June 2009 [0609]   Designated inspection frequency   24   Months									
Underwater inspection	Not needed [N]	Underwater inspection date							
Fracture critical inspection	Not needed [N]	Fracture critical in	spection date						
Other special inspection	Not needed [N]	eded [N] Other special inspection date							