STR 6938	BRIDGE SAFETY INS			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	1
N SAGINAW ROAD	43.7035 / -84.471	56200028000B020	Good Condition(7)	-
Feature	Length / Width	Owner		
BIG SALT RIVER	147.6 / 38.39	County: Midland(56)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.15 MI NW OF 11 MILE RD	2001 / / /	Mt. Pleasant(4A)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
Bay(4) / Midland(56)	5 Prestressed Concrete / 05 Multiple Box Beam	09/10/2015 / 1IMR	5 Stable w/in footing	

NBI INSPECTION						1IMR
Inspector Name			Α	gency / Company Name	Insp. Freq.	Insp. Date
Eric Rickert			G	reat Lakes Engineering Group	24	09/10/2015
GENERAL NOTES						
Good						
DECK						
	09/11	09/13	09/15			
1. Surface (SIA-58A)	7	8	7	Healer/sealer on concrete deck, 50% wo 1W. (09/15) New healer/sealer on concrete deck, hai West 20' of deck has hairline map crack along north and southsides outside of tir cracks spaced 1'-4'. (09/11)	irline map cracks still visibling throughout both lanes.	e. (09/13) Hairline transverse cracks
2. Expansion Joints	N	8	8	Sealed joints, joint material intact. (09/15 Sealed joints, joint material intact. (09/13 (09/11)	5) 3)	
3. Other Joints	8	N	N	(09/15) (09/13) Hot poured rubber in place (09/11)		
4. Railings	8	8	8	Surface sealer on inside of rail, hairline s Surface sealer on inside of rail, hairline s New surface sealer on inside of rail, hair	shrinkage cracks on outsid	e of railing (09/13)
5. Sidewalks or Curbs	N	N	N	(09/15) (09/13) (09/11)		
6. Deck Bottom Surface (SIA-58B)	N	N	N	Side by side box beams (09/15) Side by side box beams (09/13) Side by side box beams (09/11)		
7. Deck (SIA-58)	8	8	8	Healer/sealer on concrete deck wearing New healer/sealer on concrete deck (09. Hairline cracks along edges of deck and	/13)	nd 2W (09/11)
8. Drainage				(09/15) (09/13) (09/11)		

SUPERSTRUCTURE

	09/11	09/13	09/15	
9. Stringer (SIA-59)	8	8	8	Side by side box beams. Leakage starting at center span grout joints. (09/15) Side by side box beams. Leakage starting at center span grout joints. (09/13) Side by side box beams. Leakage starting at center span grout joints. (09/11)
10. Paint (SIA-59A)	N	N	N	(09/15) (09/13) (09/11)

				MICHIGAN DEPARTMENT		
STR 6938				BRIDGE SAFETY INS	PECTION REPORT	
Facility N SAGINAW ROAD Feature BIG SALT RIVER Location 0.15 MI NW OF 11 MIL Region / County Bay(4) / Midland(56)	LE RD	Latitude / Longitude 43.7035 / -84.471 Length / Width 147.6 / 38.39 Built / Recon. / Paint / Ovly. 2001 / / / Material / Design 5 Prestressed Concrete / 05 Multiple Box Beam			MDOT Structure ID 56200028000B020 Owner County: Midland(56) TSC Mt. Pleasant(4A) Last NBI Inspection 09/10/2015 / 1IMR	Structure Condition Good Condition(7) Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing
11. Section Loss	N	N	N	(09/15) (09/13) (09/11)		
12. Bearings	8	8	8	Elastomeric pads in place Elastomeric pads in place Elastomeric pads in place	(09/13)	
SUBSTRUCTURE						
	09/11	09/13	09/15			
13. Abutments (SIA-60)	8	8	8	Concrete abutments, no vi Concrete abutments, no vi Concrete stub abutments,	sible cracks (09/13)	
14. Piers (SIA-60)	7	7	7	cracks at north end. (09/15 Solid wall piers. East pier i cracks at north end. (09/13	5) nas 3 hairline vertical crack 3)	s in east face, south end and tight map s in east face, south end and tight map ks in east face, southend. (09/11)
15. Slope Protection	8	8	8	Riprap in place (09/15) Riprap in place (09/13) Riprap in place (09/11)		
APPROACH						
	09/11	09/13	09/15			
16. Approach Pavement	7	7	7	reference line. (09/15) Approach slabs covered w East approach slab has ha	rith healer/sealer, no visible airline shrinkage cracks at e	ensverse crack in east approach at cracks. (09/13) east and west ends. W approach slab inal crack in the EBD and WBD lanes.
17. Approach Shoulders Sidewalks	8	8	8	Concrete shoulders with a	pproach curb and gutter (0) pproach curb and gutter (0) pproach curb and gutter (0)	9/13)
18. Approach Slopes				Missing spacer block in SV	V and NW approach rail (09 V and NW approach rail (09 V and NW approach rail (09	9/13)
19. Utilities				Overhead north of bridge (Overhead north of bridge (None noted on bridge (09/	09/13)	
20. Channel (SIA-61)	8	8	8	Tall vegetated banks. (09/ Tall vegetated banks. (09/ Tall vegetated banks. (09/	13)	
21. Drainage Culverts				(09/15) (09/13) (09/11)		
MISCELLANEOUS						
Guard Rail Item			Ratir		Other Items em	Rating

71. Water Adequacy

72. Approach Alignment

8

8

36A. Bridge Railings

36B. Transitions

1

1

STR 6938	BRIDGE SAFETY IN	ISPECTION REPORT	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
N SAGINAW ROAD	43.7035 / -84.471	56200028000B020	Good Condition(7)
Feature	Length / Width	Owner	
BIG SALT RIVER	147.6 / 38.39	County: Midland(56)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.15 MI NW OF 11 MILE RD	2001 / / /	Mt. Pleasant(4A)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
Bay(4) / Midland(56)	5 Prestressed Concrete / 05 Multiple Box Beam	09/10/2015 / 1IMR	5 Stable w/in footing
36C. Approach Guardrail	1	Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	1	High Load Hit (M)	No
		Special Insp. Equipment	2
		Underwater Insp. Method	1
False Decking (Timber) Removed	I to Complete Inspection	N/A - No False Decking	
Critical Feature Inspections (S	SIA-92)		
	Freq Date		
92A. Fracture Critical			
92B. Underwater			

92C. Other Special 92D. Fatigue Sensitive

STR 6938		STRUCTURE INVENTOR	Y AND APPRAISA	AL	
Facility	Latitu	ıde / Longitude	MDOT Structure ID	Structure Condition	
N SAGINAW ROAD		35 / -84.471	56200028000B020	Good Condition(7)	
Feature		th / Width	Owner		
	-		-		
BIG SALT RIVER	_	/ 38.39	County: Midland(56)		
Location	Built /	/ Recon. / Paint / Ovly.	TSC	Operational Status	
0.15 MI NW OF 11 MILE RD	2001	/ / /	Mt. Pleasant(4A)	A Open, no restriction(A	A)
Region / County	Mater	ial / Design	Last NBI Inspection	n Scour Evaluation	
Bay(4) / Midland(56)		stressed Concrete / 05 le Box Beam	09/10/2015 / 1IMR	5 Stable w/in footing	
Bridge History, Type,		Route Carried By Struc	cture(ON Record)	Route Under Structure (UN	IDER Record)
27 - Year Built	2001	5A - Record Type	1	5A - Record Type	
106 - Year Reconstructed 202 - Year Painted		5B - Route Signing 5C - Level of Service	0	5B - Route Signing 5C - Level of Service	
203 - Year Overlay		5D - Route Number	00000	5D - Route Number	
43 - Main Span Bridge Type	5 05	5E - Direction Suffix	0	5E - Direction Suffix	
44 - Appr Span Bridge Type		10L - Best 3m Unclr-Lt	0 0	10L - Best 3m Unclr-Lt	
77 - Steel Type	0	10R - Best 3m Unclr-Rt	99 99	10R - Best 3m Unclr-Rt	
78 - Paint Type	0	PR Number		PR Number	·
79 - Rail Type	6	Control Section		Control Section	
80 - Post Type		11 - Mile Point	0	11 - Mile Point	
107 - Deck Type	1	12 - Base Highway Network		12 - Base Highway Network	
108A - Wearing Surface	1	13 - LRS Route-Subroute	0000008877 03	13 - LRS Route-Subroute	
108B - Membrane	0	19 - Detour Length	1	19 - Detour Length	
108C - Deck Protection	1	20 - Toll Facility	07	20 - Toll Facility	
Structure Dimens	ions	26 - Functional Class 28A - Lanes On	2	26 - Functional Class 28B - Lanes Under	
34 - Skew	14	29 - ADT	2899	29 - ADT	
35 - Struct Flared	0	30 - Year of ADT	2000	30 - Year of ADT	
45 - Num Main Spans	3	32 - Appr Roadway Width	39.04	42B - Service Type Under	5
46 - Num Apprs Spans	0	32A/B - Ap Pvt Type/Width	4 39.01	47L - Left Horizontal Clear	
48 - Max Span Length	49.2 147.6	42A - Service Type On	1	47R - Right Horizontal Clear	
49 - Structure Length 50A - Width Left Curb/SW	0	47L - Left Horizontal Clear	0.0	54A - Left Feature	
50B - Width Right Curb/SW	0	47R - Right Horizontal Clea		54B - Left Underclearance	99 99
33 - Median	0	53 - Min Vert Clr Ov Deck	99 99	54C - Right Feature	
51 - Width Curb to Curb	35.1	100 - STRAHNET	0	54D - Right Clearance	99 99
52 - Width Out to Out	38.39	102 - Traffic Direct	5	Under Clearance Year	N
112 - NBIS Length	Υ	109 - Truck % 110 - Truck Network	0	55A - Reference Feature 55B - Right Horiz Clearance	0
Inspection Dat	a	114 - Future ADT	5236	56 - Left Horiz Clearance	0
90 - Inspection Date	09/10/2015	115 - Year Future ADT	2019	100 - STRAHNET	
91 - Inspection Freq	24	Freeway	0	102 - Traffic Direct	
92A - Frac Crit Reg/Freq	N	,		109 - Truck %	
93A - Frac Crit Insp Date		Structure Ap	ppraisai	110 - Truck Network	
92B - Und Water Req/Freq	N	36A - Bridge Railing 36B - Rail Transition	1	114 - Future ADT	
93B - Und Water Insp Date		36C - Approach Rail	1	115 - Year Future ADT	
92C - Oth Spec Insp Req/Freq	N	36D - Rail Termination	1	Freeway	
93C - Oth Spec Insp Date		67 - Structure Evaluation	7	Proposed Improve	ments
92D - Fatigue Req/Freq	N	68 - Deck Geometry	5	75 - Type of Work	
93D - Fatigue Insp Date	4	69 - Underclearance	N	76 - Length of Improvement	0
176A - Und Water Insp Method 58 - Deck Rating	8	71 - Waterway Adequacy	8	94 - Bridge Cost	0
58A/B - Deck Surface/Bottom	7 N	72 - Approach Alignment	8	95 - Roadway Cost	0
59 - Superstructure Rating	8	103 - Temporary Structure		96 - Total Cost	0
59A - Paint Rating	N	113 - Scour Criticality	5	97 - Year of Cost Estimate	
60 - Substructure Rating	7	Miscellan	eous	Load Rating and P	osting
61 - Channel Rating	8	37 - Historical Significance	5	31 - Design Load	5
62 - Culvert Rating	N	98A - Border Bridge State		41 - Open, Posted, Closed	Α
Navigation Dat	ta	98B - Border Bridge %		63 - Fed Oper Rtg Method	1
38 - Navigation Control	0	101 - Parallel Structure	N	64F - Fed Oper Rtg Load	99.9
39 - Vertical Clearance	0	EPA ID		64MA - Mich Oper Rtg Method	220
40 - Horizontal Clearance	0	Stay in Place Forms	1	64MB - Mich Oper Rtg	229
111 - Pier Protection		143 - Pin & Hanger Code	1	64MC - Mich Oper Truck	1
116 - Lift Brdg Vert Clear		148 - No. of Pin & Hangers		65 - Inv Rtg Method 66 - Inventory Load	90.8
				70 - Posting	5
				141 - Posted Loading	
				193 - Overload Class	Α

STR 6938	WORK RECOM			
Facility	Latitude / Longitude	Structure Condition		
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Feature	Length / Width	Owner		
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Bay(4) / Midland(56)	5 Prestressed Concrete / 05 Multiple Box Beam	09/10/2015 / 1IMR	5 Stable w/in footing	

WORK RECOMME	NDATIONS				1IM
Inspector Name		Agency / Company Name		Insp. Freq.	Insp. Date
Eric Rickert		Great Lakes Engineering Gr	roup	24	09/10/2015
CRE	W RECOMME	ENDATIONS	CONT	RACT RECOM	MENDATIONS
Recommendation Type	Priority	Description	Recommendation Type	Priority	Description



Road and bridge section facing west



Healer/sealer on concrete deck





Bridge railing



End joint





Upstream channel section



Downstream channel section





Hairline cracks in surface



Hairline cracks in surface





Hairline cracks in surface

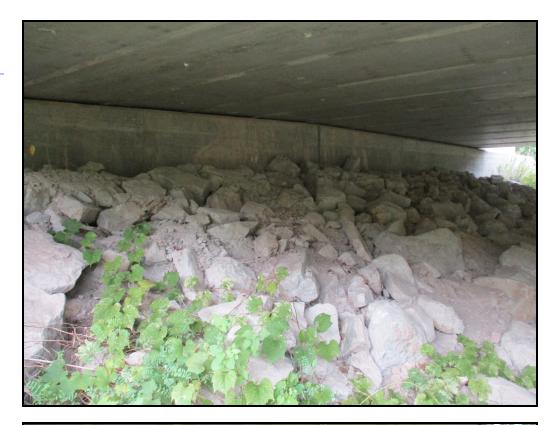


North elevation of bridge





West abutment



West pier





East pier

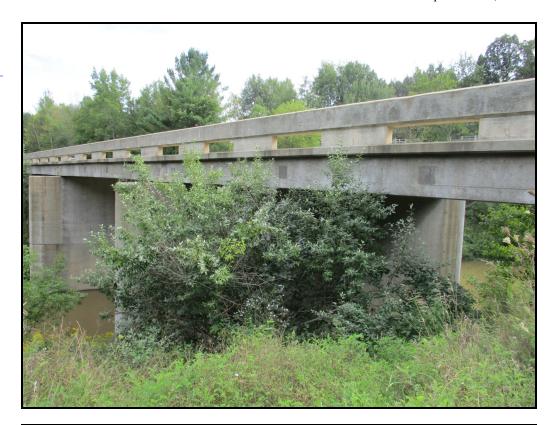


Bottom of box beams





North elevation of bridge



East abutment

