

MICHIGAN DEPARTMENT OF TRANSPORTATION

STR 11994 CULVERT SAFETY INSPECTION REPORT

Facility S GIBALTAR	Latitude / Longitude 42.0878 / -83.2	MDOT Structure ID 824263600006B02	Structure Condition Good Condition(7)	
Feature FRANK & POET DRAIN	Length / Width / Spans 27.2 / 42 / 1	Owner City: GIBALTAR(2636)		
Location GIBALTAR E/JEFFERSON	Built / Recon. / Paint / Ovly. 1992 / / /	TSC Taylor(25)	Operational Status A Open, no restriction(A)	
Region / County Metro(7) / Wayne(82)	Material / Design 1 Concrete / 19 Culvert	Last NBI Inspection 08/02/2023 / G3Z9	Scour Evaluation 5 Stable w/in footing	

CULVERT INSPECTION G3Z9

Inspector Name Joel Thorne	Agency / Company Name Great Lakes Engineering Group	Insp. Freq. 24	Insp. Date 08/02/2023
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GENERAL NOTES

HMA surface with previously sealed cracks. Sidewalk on north and south side of structure.

NBI INSPECTION

	08/19	08/21	08/23	
1. Culvert Rating (SIA-62)	N	8	7	(08/23) (08/21) (08/19)
2. Channel (SIA-61)	6	6	6	Slow flow. NE, NW, and SW quadrants were well vegetated with concrete slabs. The SE quadrant was protected with cut concrete slabs and private docks. (08/23) NE, NW, and SW quadrants were well vegetated with concrete slabs. The SE quadrant was protected with cut concrete slabs and private docks. (08/21) Bridge constricts waterway by approximately 40 feet. NE, NW, and SW quadrants were well vegetated with tall grass and reeds around the concrete slabs. The SE quadrant was protected with cut concrete slabs and private docks. (08/19)
3. Scour	7	7	4	2019 UW report notes the following: Top of footing is exposed at both abutments. the concrete below water is in good condition and sounds solid. (08/23) See 2019 underwater inspection. No scour observed. (08/21) SCUBA diving. No scour observed. (08/19)

AASHTO ELEMENTS (English Units)

Element Number	Element Name	Total Quantity	Unit	Good CS1	Fair CS2	Poor CS3	Severe CS4
851	Reinf Conc Culvert 3-Sided	42	ft	42 100%	0 0%	0 0%	0 0%
Precast Conspan with concrete headwalls. Both fascias have a 0.5sft STS. HL transverse cracks in segments 1s-4s. Map cracking in segments 5s-7s.							
861	Culvert Wingwall	4	(EA)	4 100%	0 0%	0 0%	0 0%
CIP concrete wingwalls with hairline vertical cracks.							
863	Culvert Headwall	2	(EA)	2 100%	0 0%	0 0%	0 0%
CIP concrete headwalls with concrete railing.							


MISCELLANEOUS

Guard Rail		Other Items	
Item	Rating	Item	Rating
36A. Bridge Railings	1	71. Water Adequacy	7
36B. Transitions	1	72. Approach Alignment	8
36C. Approach Guardrail	1	Special Insp. Equipment	1
36D. Approach Guardrail Ends	0	Underwater Insp. Method	3

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RECOMMENDATIONS & ACTION ITEMS

Recommendation Type	Priority	Description
Slope Repair	M	Fill area of undermining of sidewalk at the approach.

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SUPPORTING IMAGES

G3Z9 08/02/2023



Document Name: IMG_4623.JPG
 Category: Elevation
 Span Number:
 Comments: South elevation



Document Name: IMG_4630.JPG
 Category: Elevation
 Span Number:
 Comments: North elevation



Document Name: IMG_4615.JPG
 Category: Approach
 Span Number:
 Comments: Looking east through structure



Document Name: IMG_4618.JPG
 Category: Railing
 Span Number:
 Comments: South rail

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Document Name: IMG_4621.JPG
 Category: Railing
 Span Number:
 Comments: North rail



Document Name: IMG_4616.JPG
 Category: Deck
 Span Number:
 Comments: HMA surface



Document Name: IMG_4617.JPG
 Category: Deck
 Span Number:
 Comments: South sidewalk




Document Name: IMG_4620.JPG
 Category: Deck
 Span Number:
 Comments: North sidewalk

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Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
GIBRALTAR E/JEFFERSON	1992 / / /	Taylor(25)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
Metro(7) / Wayne(82)	1 Concrete / 19 Culvert	08/02/2023 / G3Z9	5 Stable w/in footing	



Document Name: IMG_4624.JPG
 Category: Culvert
 Span Number:
 Comments: STS is fascia



Document Name: IMG_4625.JPG
 Category: Culvert
 Span Number:
 Comments: West abutment



Document Name: IMG_4626.JPG
 Category: Culvert
 Span Number:
 Comments: Soffit



Document Name: IMG_4627.JPG
 Category: Culvert
 Span Number:
 Comments: East abutment

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Document Name: IMG_4628.JPG
 Category: Culvert
 Span Number:
 Comments: HL transverse cracks in soffit



Document Name: IMG_4629.JPG
 Category: Culvert
 Span Number:
 Comments: HL map cracks in soffit



Document Name: IMG_4619.JPG
 Category: Channel
 Span Number:
 Comments: South channel



Document Name: IMG_4622.JPG
 Category: Channel
 Span Number:
 Comments: North channel