

# OTIC Bridge Report 2021

## Castalia

Milepost: 119.3

### Description:

SFN: 2229447

Inspection Date: 3/10/2021 1:59:2

State Route 13 - Mudbrook Rd

Paint Type/ Year:  
1981

Latitude 41.3239555

Longitude -82.5946245

<b>Deck Summary:</b>		<input type="text" value="6"/>	<b>Operational Status:</b>		<input type="text" value="A"/>	<b>Beam to Backwall</b>			
<b>Substructure Summary:</b>		<input type="text" value="7"/>	<b>Channel Summary:</b>		<input type="text" value="N"/>	<b>Beam No.</b>	<b>Dir:</b> N <b>Dist:</b> 4"	<b>Beam No.</b>	<b>Dir:</b> N <b>Dist:</b> 4"
<b>Superstructure Summary:</b>		<input type="text" value="7"/>	<b>Culverts Summary:</b>		<input type="text" value="N"/>	N	<b>Dir:</b> S <b>Dist:</b> 7"	S	<b>Dir:</b> S <b>Dist:</b> 7"

Line ID	General Area	Specific Area	Dir	Deficiency	Date Corrected
1	Substructure	Slope Protection		Heavy vegetation on forward (north) slope. Minor protection loss.	
2	Deck	Railing		Interior face of the right (east) parapet has two spalls to fully exposed rebar (12 SF).	
7476	Approach	Guardrail		Forward right (northeast) and forward left (northwest) guardrail posts 01 and 02 are rotting at the base.	
7477		Guardrail		Rear right (southeast) guardrail posts 2 and 3 have rotted at base.	
7478		Guardrail		Rear right (southeast) guardrail post 1 have cracked foundations.	
7479		Railing		Interior face of rear right (southeast) and rear left (southwest) transition barrier have heavy scaling.	
7480		Slab(s)		Forward (north) approach/abutment slabs joint has a 4 SF asphalt patched spall.	
7481		Slab(s)		Rear (south) abutment slab has a 4 SF spall with exposed rebar in the northbound lane. (Patched with asphalt).	
7482		Slab(s)		Rear (south) slabs are scaling/spalling at approach/abutment slab joint.	
7483		Expansion Joint(s)		Forward (north) approach slab/abutment slab joint is misaligned and has plow damage.	
7484	Deck	Expansion Joint(s)		Forward (north) expansion joint has minor adjacent scaling.	
7485		Floor / Slab		Hairline map cracks throughout deck underside and isolated cracks with discoloration.	
7486		Railing		Exterior face of the right (east) and left (west) parapets are scaling and have minor vertical cracks.	

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7487	Deck	Railing	Interior face of the right (east) and left (west) parapets have heavy scaling, delaminations, isolated spalls to rebar, and spots of rust stains along bottom edge the full length of bridge.
7488		Wearing Surface	Deck has moderate wear throughout and some spalls are forming near joint armor. There is also one spall approximately 20' from rear (south) abutment and approximately 20' rear (south) from Pier 02.
7490	Substructure	Abutment Caps	Rear (south) abutment pedestals 03, 04, and 05 are spalled.
7491		Abutment Caps	Forward (north) abutment pedestal 03 is spalled on right (east) face (no loss of bearing area).
7492		Abutment Walls	Forward (north) abutment stem and backwall have isolated vertical cracks.
7493		Abutment Walls	Forward (north) abutment stem has a full height vertical crack below beam 03.
7494		Abutment Walls	Rear (south) abutment stem and backwall have minor isolated vertical cracks.
7495		Pier Barrier / Crashwall	Pier 03; Barrier has minor scaling throughout.
7496		Pier Caps	Pier 03; Cap patch at right (east) end is cracked.
7497		Slope Protection	Heavy vegetation on rear (south) slope. Minor protection loss.
7498		Wingwalls	Minor cracking and delamination at the forward right (northeast) cheekwall.
7499		Wingwalls	Rear right (southeast) and rear left (southwest) cheekwalls have horizontal cracking on interior faces.
7500		Abutment Caps	Forward (north) abutment Pedestal 01 is cracked.
7501	Superstructure	Bearing Devices	All Piers; Bearings have pack rust.
7502		Bearing Devices	Forward (north) abutment bearings 01, 04, and 05 have heavy pack rust between rocker and masonry plate.
7503		Bearing Devices	Forward (north) abutment bearings 02-04 have wooden retainers installed.
7504		Bearing Devices	Rear (south) abutment bearings 01-05 have pack rust. Corrosion and little paint remaining on bearings themselves.
7506		Bearing Devices	Forward (north) abutment bearings 01 and 05 keeper angles bent.
7507		Drainage	Right (east) and left (west) scuppers are clogged at Pier 02. Downspout on column 3 cracked and broken.

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7508 Superstructure PCS Paint: 25% CS2, 50% CS3 and 25% CS4. (by area)

7509 Substructure Pier Caps Pier 03; cap patch is map cracked on left (west) face.

Milepost: 119.6

### Description:

SFN: 2229463

Inspection Date: 7/12/2021 2:58:3

Huron River - (W&LE RR) (N&W RR) (Abandoned) (combined into 1

Paint Type/ Year:

OZEU-1994

Latitude 41.323971889 Longitude -82.591269694

Deck Summary:				Beam to Backwall			
Substructure Summary:		Channel Summary:		Beam No.	Dir: E Dist: 3.5"	Beam No.	Dir: E Dist: 3.5"
Superstructure Summary:		Culverts Summary:		E	Dir: W Dist: 3.5"	W	Dir: W Dist: 3.5"

Line ID	General Area	Specific Area	Dir	Deficiency	Date Corrected
7510	Approach	Slab(s)	E	Forward (east) abutment/approach slab joint has 16 SF of adjacent asphalt patched spalls.	
7511		Slab(s)	E	Forward (east) approach slab has longitudinal cracks.	
7512		Slab(s)	E	Rear (west) approach slab has longitudinal and map cracks.	
7513		Slab(s)	E	Rear (west) slabs have scaling, spalling, and apparent undermining at approach/abutment slabs joint.	
7514		Slab(s)	W	Forward (east) approach and abutment slabs have longitudinal cracks. There is also a minor spall next to and asphalt patch in the abutment slab.	
7515		Slab(s)	W	Forward (east) approach/abutment slab joint is spalling in the right (south) lane and outer shoulder areas. Patched with asphalt. Patch deteriorating in the center lane.	
7516		Slab(s)	W	Rear (west) abutment slab has 8 SF of asphalt patched spalls.	
7517	Channel	Protection	E	Right (south) Channel concrete ditch protection at base of forward (east) abutment slope is cracked and spalling.	
7518			W	Left (north) channel is downstream.	
7519			E	Right (south) channel is upstream.	
7520			E+W	Span 7 (river) slope protection has loss of rocks on rear (west) bank.	