

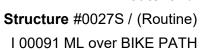


Town: 206 - SPRINGFIELD

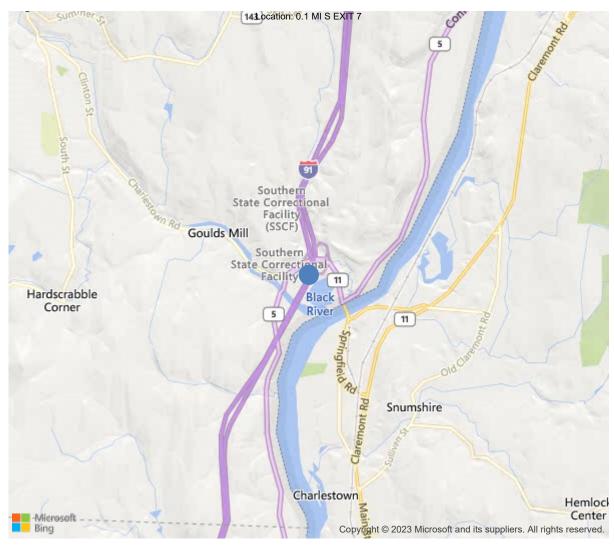
District 2, 27 - WINDSOR County

Owner: 1 - State Highway Agency

Maintenance Responsibility: 1 - State Highway Agency







43.26478, -72.43352



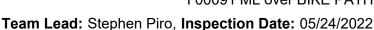
Structure #0027S / (Routine)

I 00091 ML over BIKE PATH

IDENTIFICA	TION
(1) State Names	50 - Vermont
(8) Structure Number	200091027S14182
(5) Inventory Route	1
(2) Highway Agency District	2 - District 2
(3) County Code	27 - WINDSOR
(4) Place Code	69550
(6) Features Intersected	BIKE PATH
(7) Facility Carried	I 00091 ML
(9) Location	0.1 MI S EXIT 7
(11) Mile Point	41.541 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0270000091
(16) Latitude	43.264777777778
(17) Longitude	-72.4335166666667
(98) Border Bridge State Code	
(99) Border Bridge Structure No. STRUCTURE TYPE AN	JD MATEDIAI
(43) Main Structure Type	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	1
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	2 - Preformed Fabric
Type of Deck Protection	0 - None
AGE AND SEI	RVICE
(27) Year Built	1965
(106) Year Reconstructed	0
(42) Type of Service	13
On	1 - Highway
Under	3 - Pedestrian-bicycle
(28) Lane	
On	3
Under	0
(29) Average Daily Traffic	15000
(30) Year of ADT	2018
(109) Truck ADT	13 %
(19) Bypass, Detour Length GEOMETRIC	DATA 1 mi
(48) Length of Maximum Span	72 ft
(49) Structure Length	74 ft
(50) Curb or Sidewalk Width	
	Left 0.7 ft
	Right 0.7 ft
(51) Bridge Roadway Width Curb to Curb	42 ft
(52) Deck Width Out to Out	47.2 ft
(32) Approach Roadway Width (W/Should	lers) 41 ft
(33) Bridge Median	1 - Open median
(34) Skew	20 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	42 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	0.#
(55) Min Lat Underclear RT Ref:	0 ft
(56) Min Lat Underclear LT	0 ft
NAVIGATION	
(38) Navigation Control	DATA N - Not applicable, no waterwa
(38) Navigation Control (111) Pier Protection	N - Not applicable, no waterwa
(38) Navigation Control (111) Pier Protection (39) Navigation Vertical Clearance	N - Not applicable, no waterwa 0 ft
(38) Navigation Control (111) Pier Protection	N - Not applicable, no waterwa

(112) NBIS Bridge Length	\
(104) Highway System	•
(26) Functional Class	1 - Rural Principal Arterial
(100) Defense Highway	1 - The inventory route is or
(101) Parallel Structure	L - The left structure of para
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	 The inventory route is pa
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible fo
CONDI	ITION
(58) Deck	(
(59) Superstructure	-
(60) Substructure	-
(61) Channel & Channel Protection	
(62) Culverts	 N
LOAD RATING	
(31) Design Load	5 - MS 18 / HS 20
(63) Operating Rating Method	0 - IVIO 10 / 110 20
(64) Operating Rating	
Type	1 - Load Factor(LF
Rating	97
(65) Inventory Rating Method	1 - Load Factor(LF
(66) Inventory Rating	1 - Load 1 actor(Er
Type	
Rating	
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
` ,	
APPRA	
(67) Structural Evaluation (68) Deck Geometry	
(69) Clearances, Vertical/Horizontal	
(71) Waterway Adequacy	
(72) Approach Roadway Alignment	!`
(36A) Bridge Railings	1 - Inspected feature meets curren
(36B) Transitions	Inspected feature meets curren Inspected feature meets curren
(36C) Approach Guardrail	Inspected feature meets curren Inspected feature meets curren
(36D) Approach Guardrail Ends	Inspected feature meets curren Inspected feature meets curren
(113) Scour Critical Bridges	· · · · · · · · · · · · · · · · · · ·
· · · ·	N - Bridge not over waterway
PROPOSED IMI	
(75) Type of Work	35 - Bridge rehabilitation be
(76) Length of Structure Improvement	74 1
(94) Bridge Improvement Cost	\$ 122
(95) Roadway Improvement Cost	\$ 50
(96) Total Project Cost	\$ 1273
(97) Year of Improvement Cost Estima	
(114) Future ADT	15750
(115) Year of Future ADT	2028
INSPECT	TIONS *
(90) Inspection Date	05/24/2022
(91) Frequency	03/24/2022
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No
B: Underwater Inspection	No No
C: Other Special Inspection	INU
o. Other Special Inspection	
* The inspection date and frequency	information in this box contains information. Please refer to the







Deck

1						
DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Reinforced Concrete Deck	SF	3493	2813	500	180	0
Delamination/Spall/Patched Area	SF	300	0	180	120	0
Efflorescence/Rust Staining	SF	320	0	320	0	0
Cracking (RC and Other)	SF	60	0	0	60	0
Wearing Surfaces	SF	3108	3088	20	0	0
Crack (Wearing Surface)	SF	20	0	20	0	0
Pourable Joint Seal	LF	90	90	0	0	0
Metal Bridge Railing	LF	148	148	0	0	0
Concrete Fascia	LF	148	63	10	75	0
Delamination/Spall/Patched Area	LF	15	0	0	15	0
Efflorescence/Rust Staining	LF	10	0	10	0	0
Cracking (RC and Other)	LF	60	0	0	60	0
	Reinforced Concrete Deck Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Wearing Surfaces Crack (Wearing Surface) Pourable Joint Seal Metal Bridge Railing Concrete Fascia Delamination/Spall/Patched Area Efflorescence/Rust Staining	Reinforced Concrete Deck Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Wearing Surfaces Crack (Wearing Surface) SF Pourable Joint Seal LF Metal Bridge Railing LF Concrete Fascia Delamination/Spall/Patched Area LF Efflorescence/Rust Staining LF	Reinforced Concrete Deck Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Wearing Surfaces Crack (Wearing Surface) Pourable Joint Seal Metal Bridge Railing Concrete Fascia Delamination/Spall/Patched Area Efflorescence/Rust Staining LF 148 Efflorescence/Rust Staining LF 15 Efflorescence/Rust Staining	Reinforced Concrete Deck SF 3493 2813 Delamination/Spall/Patched Area SF 300 0 Efflorescence/Rust Staining SF 320 0 Cracking (RC and Other) SF 60 0 Wearing Surfaces SF 3108 3088 Crack (Wearing Surface) SF 20 0 Pourable Joint Seal LF 90 90 Metal Bridge Railing LF 148 148 Concrete Fascia LF 148 63 Delamination/Spall/Patched Area LF 15 0 Efflorescence/Rust Staining LF 10 0	Reinforced Concrete Deck SF 3493 2813 500 Delamination/Spall/Patched Area SF 300 0 180 Efflorescence/Rust Staining SF 320 0 320 Cracking (RC and Other) SF 60 0 0 Wearing Surfaces SF 3108 3088 20 Crack (Wearing Surface) SF 20 0 20 Pourable Joint Seal LF 90 90 0 Metal Bridge Railing LF 148 148 0 Concrete Fascia LF 148 63 10 Delamination/Spall/Patched Area LF 15 0 0 Efflorescence/Rust Staining LF 10 0 10	Reinforced Concrete Deck SF 3493 2813 500 180 Delamination/Spall/Patched Area SF 300 0 180 120 Efflorescence/Rust Staining SF 320 0 320 0 Cracking (RC and Other) SF 60 0 0 60 Wearing Surfaces SF 3108 3088 20 0 Crack (Wearing Surface) SF 20 0 20 0 Pourable Joint Seal LF 90 90 0 0 Metal Bridge Railing LF 148 148 0 0 Concrete Fascia LF 148 63 10 75 Delamination/Spall/Patched Area LF 15 0 0 15 Efflorescence/Rust Staining LF 10 0 10 0

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Reinforced concrete deck is in satisfactory condition being fairly clean with scattered areas of minor transverse cracking with efflorescence leakage present. Delaminations are forming around a few of the cracks scattered around the deck.

200 - Existing pavement depth on bridge (3")

A21 - Deck Wearing Surface Condition (2 - Good)

Asphalt is in fairly good condition with light wear in travel lanes and some light cracking.

A24 - Deck Curb Condition (5 - Poor)

Concrete curbing with granite block facing is in poor condition with the concrete behind the granite facing having areas of moderate to heavy concrete scaling and areas of minor cracking. Curbing over wingwalls have heaviest deterioration present.

A28 - Deck Rail Condition (2 - Good)

Galvanized two (2) tier box beam rail is in fairly good condition having some minor scrapes and dents with some light surface rusting around scrapes.

A31 - Deck Post Condition (2 - Good)

Pedestal mounted galvanized steel tube posts are generally in fairly good condition with some minor wear present.

A34 - Deck Joint Condition (2 - Good)

Asphaltic plug joints are present over both abutments in fairly good condition with joints having some light wear and some minor transverse cracking at edges of joints.

A38 - Deck Drain Condition (2 - Good)

Weep tubes are present along both fascia's and have been extended below the lower flange of the fascia beams and are in good condition.

A39 - Deck Fascia Condition (3 - Satisfactory)

Concrete fascia has some areas of minor cracking and small rust stains in various locations along both fascias.

Delaminations are starting to form along the top surface where cracking is progressing.



Structure #0027S / (Routine)

I 00091 ML over BIKE PATH

Team Lead: Stephen Piro, Inspection Date: 05/24/2022

APPROACH

72 - Approach Roadway Alignment (8 - Equal to present desirable criteria)

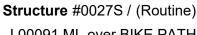
Roadway alignment has minor curve throughout with a slight elevation drop in the direction of traffic flow.

A13 - Approach Rail Condition (3 - Satisfactory)

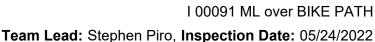
Galvanized steel beam rail is in satisfactory condition with areas of rail having flattened out areas with scrapes and dents. Scraping has minor rusting and freckling surface rusting throughout.

A16 - Approach Post Condition (3 - Satisfactory)

Galvanized steel posts with steel offsets have small dents and bends along the upper portions and some surface rusting throughout.



I 00091 ML over BIKE PATH



7

1

6

0

0

0

1

1

0

0



ELEMENTS UNITS TOTAL DESCRIPTION CS₁ CS₂ CS₃ CS₄ 107 LF Steel Open Girder/Beam 518 466 26 26 0 1000 Corrosion LF 52 0 26 26 0 Steel Protective Coating SF 4144 4074 0 515 50 20 LF 3420 Peeling/Bubbling/Cracking 70 0 0 50 20 7 0 311 Movable Bearing EΑ 6 0 1000 Corrosion EΑ 1 0 0 1 0

EΑ

EΑ

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Seven (7) painted steel rolled beams are in fairly good condition having positive camber and cover plates welded along the bottom of the beams. Small areas of surface rusting are present mainly along the lower flanges and lower sections of the webs near the ends of the beams. Paint has minor distress along the lower flanges near the beam ends with steel corrosion initiated. Paint has small areas where paint is starting to bubble, flake and peel.

A55 - Lateral Bracing Condition (2 - Good)

Three (3) painted steel c-channel diaphragms that are bolted to plates that are welded to the webs of the rolled beams are in fairly good condition with some very small areas of corrosion.

A63 - Bearing Condition (2 - Good)

Fixed Bearing

Corrosion

313

1000

Abutment #2 has bronze bearings with interior bearings having some light surface corrosion starting and fascia bearings having minor rust scaling starting to form. Sliding steel plates are present over abutment #1 having light surface corrosion starting along the interior with fascia bearings having minor rust scaling starting to form. Bearings #1 at both ends have heaviest corrosion.



I 00091 ML over BIKE PATH

Team Lead: Stephen Piro, Inspection Date: 05/24/2022



Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	100	84	16	0	0
1120	Efflorescence/Rust Staining	LF	10	0	10	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
800	Reinforced Concrete Wing/Retaining Wall	EA	4	2	2	0	0
1120	Efflorescence/Rust Staining	EA	2	0	2	0	0

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Abutment #1 is in fairly good condition with some hairline vertical shrinkage cracks scattered throughout the stem. Minor sandy debris build up is present along bridge seat. Minor saturated concrete and efflorescence leakage on the eastern end of abutment stem.

Abutment #2 is in fairly good condition with some hairline vertical shrinkage cracks scattered throughout the stem. Minor sandy debris build up is present along bridge seat.

A71 - Abutment End Walls Condition (3 - Good)

Reinforced concrete curtain walls are in fairly good condition having some light hairline cracking.

A77 - Retaining/Wingwall Condition (3 - Good)

Concrete wingwalls are in fairly good condition having some light map cracking.

CHANNEL

61 - Channel/Channel Protection (N - Not applicable.)

GENERAL OBSERVATION

Structure is in fairly good condition but still needing a few repairs. Older sections of galvanized steel beam rail and damaged rail should be replaced. Asphaltic plug joints over both abutments have minor transverse cracking along edges and should be considered for replacement to prevent leakage to structure below. Both sides of concrete curbing have areas of deep concrete scaling and should be cleaned and patched. Debris should be cleaned off abutment bridge seats. General spot cleaning of the paint is needed along the lower flanges at beam ends and bearings should be cleaned and repainted.



District: 2, County: 27

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	3493	2813	500	180	0
1080	Delamination/Spall/Patched Area	SF	300	0	180	120	0
1120	Efflorescence/Rust Staining	SF	320	0	320	0	0
1130	Cracking (RC and Other)	SF	60	0	0	60	0
510	Wearing Surfaces	SF	3108	3088	20	0	0
3220	Crack (Wearing Surface)	SF	20	0	20	0	0
107	Steel Open Girder/Beam	LF	518	466	26	26	0
1000	Corrosion	LF	52	0	26	26	0
515	Steel Protective Coating	SF	4144	4074	0	50	20
3420	Peeling/Bubbling/Cracking	LF	70	0	0	50	20
215	Reinforced Concrete Abutment	LF	100	84	16	0	0
1120	Efflorescence/Rust Staining	LF	10	0	10	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
301	Pourable Joint Seal	LF	90	90	0	0	0
311	Movable Bearing	EA	7	6	0	1	0
1000	Corrosion	EA	1	0	0	1	0
313	Fixed Bearing	EA	7	6	0	1	0
1000	Corrosion	EA	1	0	0	1	0
330	Metal Bridge Railing	LF	148	148	0	0	0
800	Reinforced Concrete Wing/Retaining Wall	EA	4	2	2	0	0
1120	Efflorescence/Rust Staining	EA	2	0	2	0	0
804	Concrete Fascia	LF	148	63	10	75	0
1080	Delamination/Spall/Patched Area	LF	15	0	0	15	0
1120	Efflorescence/Rust Staining	LF	10	0	10	0	0
1130	Cracking (RC and Other)	LF	60	0	0	60	0





Eastern Elevation



Abutment #2 between Beams #4 and #5



Bronze Bearing #1 at Abutment #2



Abutment #1





Superstructure from South End



Bays #1 through #3 Deck Soffit South End



North End Deck Soffit



Bronze Bearing #1 at Abutment #1







Abutment #1 Abutment #2



Failing Retaining Wall Northeast Corner of Structure



Abutment #1





Abutment #2



Fixed Steel Bearing #1 at Abutment #1



Superstructure from Southwest Corner



Eastern Curb / Fascia Cracking / Scaling





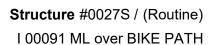
Asphaltic Plug Joint over Abutment #2



Deck Wearing Surface from Northeast Corner



Western Curb Heavy Spalling





Maintenance Needs

Date Reported: 05/24/2022

Priority: 4 - Maintenance Finding - Next Inspection Cycle

Type of Work: 12 - Deck - Fascia and curb repair or reconstruction

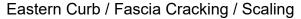
Status: Open Component: Deck

Deficiency Description

Concrete curbs have deep spalling / scaling scattered throughout and need to be cleaned and patched. Fascia's have longitudinal cracking that are starting to delaminate and have scaling in surrounding areas along the top surface and should also be considered for repairs.

Remarks







Eroding curbing at West mid-span