Inspection Type: Special



BRIDGE NO.03903

34250 - GROTON MOSHER STREET over AMTRAK RAILROAD

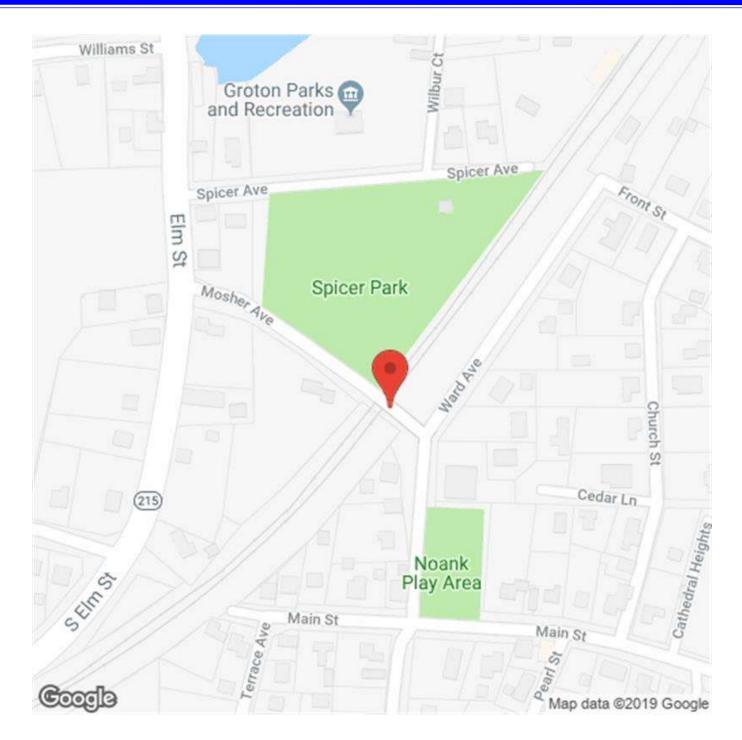
Special Inspection 2/15/2019



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Town: GROTON Carried: MOSHER STREET Crossed: AMTRAK RAILROAD Inventory Route: Non-NHS



Location Map # 1

Bridge No: 03903

Town:GROTONCarried:MOSHER STREETCrossed:AMTRAK RAILROADInventory Route:Non-NHS

STRUCTURE INVENTORY & APPRAISAL

INSPECTION	STRUCTURE TYPE & MATERIALS
Structurally Deficient Y Functionally Obsolete N	(43) Structure Type, Main
Sufficiency Rating 45.2	A) Material 3 - Steel
(90) Inspection Date (91) Frequency 24	B) Design Type 03 - Girder and Floorbeam System
Indepth Insp No Proposed next Indepth Year	(44) Structure Type, Approach
Deck Survey Date Class 02	A) Material 0 - Other
Access 99 - Other (specify in comments of BRI-19) Flagman 2	B) Design Type 00 - Other
Frequency Date Type	(45) Number of Spans, Main Unit 1
Fracture 24 D Two Girder System, riveted / bolted plate girders	(46) Number of Approach Spans 0
Underwater	(107) Deck Structure Type 1 - Concrete Cast-in-Place
Special 12 02/15/2019 J Corrosion / Section loss	(108) Wearing Surface/Protection Systems
	A) Type of Wearing Surface 6 - Bituminous
Bridge Name 03903	B) Type of Membrane 2 - Preformed Fabric
Town Code - Name 34250 - GROTON	
(5) Inventory Route	C) Type of Deck Protection 0 - None
(A) Record Type 1: Route carried "on" the structure	Substructure
(B) Signing Prefix 5 - CITY STREET	A) Material 2 - CONCRETE
(C) Level of Service 0 - NONE OF THE BELOW	B) Design Type 2 - STUB ABUTMENT
(D) Route Number. 00000	Paint
(E) Dir Suffix 0 - NOT APPLICABLE	Туре
(6A) Featured Intersected AMTRAK RAILROAD	Year
(6B) Critical Facility Indicator	Comment
(7) Facility Carried MOSHER STREET	GEOMETRIC DATA
(9) Location 0.4 MI E OF ROUTE 215	(48) Length of Maximum Span 101 ft.
(11) Mile Post 0.38 Miles	(49) Structure Length 106 ft.
(16) Latitude 41 Deg. 19 Min. 37.14 Sec.	(50) Curb or Sidewalk Widths
(17) Longitude -71 Deg. 59 Min. 21.05 Sec.	A) Left 5 ft. 0 in. B) Right 5 ft. 0 in.
(98) Border Bridge	(51) Bridge Roadway Width Curb to Curb 27 ft. 0 in.
(A) State Code (B) Percent Responsibility %	(52) Deck Width, Out to Out 31 ft. 0 in.
(C) Border Town Name	(32) Approach Roadway Width 27 ft.
(99) Border Bridge Structure No.	

Form: BRI-19, Rev. 2/15 Inspection type: Special Inspection Date: 2/15/2019 Inspected by: Team 4

Bridge No: 03903

Town:GROTONCarried:MOSHER STREETCrossed:AMTRAK RAILROADInventoryRoute:Non-NHS

(33) Bridge Median 0 - No median		A	AGE AND SERVICE
Deck Area 4887 sq. ft.		Year Built 1936	(106) Year Reconstructed 1993
(34) Skew Angle 0 deg.		(42) Type of Service	
(35) Structure Flared 0 - No flare		A) On 5 - Highwa	ay-pedestrian
(10) Inv. Rte. Min. Vert. Clearance 99 ft.	99 in.	B) Under 2 - Railroa	ad
	0 in.	(28) Number of Lanes	
Log Inv. Rte. Total Horiz. Clr. 27 ft. 0	in.	A) On 02	B) Under 00
RLog Inv. Rte. Total Horiz. Clr. 0 ft. 0	in.	(29) Average Daily Traffic	3503
(53) Min. Vert. Clearence Over Bridge 99 ft.	99 in.	Is Above Half ADT?	No
(54) Log-Min. Vert. Underclearance R ref. 21	ft. 5 in.	(109) Precent Truck	4 %
(55) Min. Lat Underclearance on Right R ref. 8	ft. 6 in.	(30) Years of ADT	2017
(56) Min. Lat Underclearance on Left 0	ft. 0in.	(19) Bypass, Detour Leng	th 1 Miles
CONDITION			APPRAISALS
(58) Deck 5		(67) Structural Evaluation	4
(59) Superstructure 4		(68) Deck Geometry	3
(60) Substructure		(69) Underclearances, Ve	rt. & Horiz. 4
(61) Channel & Channel Protections		(71) Waterway Adequacy	Ν
(62) Culverts		(72) Approach Roadway A	Alignment 4
(36) Traffic Safety Features		(113) Scour Critical	Ν
A) Bridge Railings			COMMENTS
B) Transitions		north face. - ADT based on 1% inc - 55' high rail used for ir - Re-evaluation is recor - A re-evaluation of LR	nmended due to section loss. analysis is recommended till the project # 058-0336 with an
C) Approach Guardrail 0			
D) Approach Guardrail Ends 0			
WATERWAY		C	LASSIFICATION
Drainage Basin Waterway		(112) NBIS Bridge Length	Yes
(38) Navigation Control N - Not applicabl waterway	e, no	(104) Highway System	0 - Structure/Route is NOT on NHS
(39) Navigation Vertical Clearance 0]ft.	(26) Functional Class	19 - Urban - Local
(40) Navigation Horiz. Clr.		(100) Defense Highway	0 - Not a STRAHNET route
(111) Pier/Abutment Navigation		(101) Parallel Structure	N - No parallel structure

Form: BRI-19, Rev. 2/15 Inspection type: Special	Town: GROTON Bridge No: 03903 Carried: MOSHER STREET
Inspection Date: 2/15/2019 Inspected by: Team 4	Crossed: AMTRAK RAILROAD Inventory Route: Non-NHS
(116) Vert-Lift Brg Nav Min	0 ft. 0 In. (102) Direction of Traffic 2 - 2-way traffic

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Bridge No: 03903

Town:GROTONCarried:MOSHER STREETCrossed:AMTRAK RAILROADInventoryRoute:Non-NHS

(103) Temporary Stru	cture							
(110) Designated Nat Network	ional	0 - Inve	ntory ro	ute	not on	netwo	ork	
(20) Toll		3 - On F	Free Ro	ad				
(21) Maintain		25 - Oth	ner Loca	al Ag	gencies			
(22) Owner		80 - Otł	ner or U	nkno	own			
Report Class		O - ORI	PHAN					
(37) Historical Signific	ance	5 - Not	eligible	for N	Vationa	l Reg	ister	
	— РС	STED	SIGNS	; -				
Other Posted Sign 1]		
Other Posted Sign 2]		
			Actual		Reco	menc	ded	
Posted Load Single L	Init Tru	ck						tons
Posted Load Semi-Tr	ailer Tr	uck						tons
Posted Load 4 Axle T	ruck							tons
Posted Load 3S2 Tru	ck							tons
All Vehicles								tons
Posted Vert. Clearand	ce on B	ridge		ft.		jin.		
Posted Vert. Undercle	earance	9		ft.		in.		
Posted Speed Limit of	n Bridg	je	25]m.p	o.h.			
	отн	ER FEA	TURE	s -				
Fence Required	Yes							
Fence Present	Yes							
Fence Type	3 - Sol	id Pane	l					
Fence Height	6.5							
Fence Material	1 - Alu	minium						
Fence Top Type	2 - Re	turn						
Barrel Ladders	No							
Stand Pipes	No							
Catwalks	No							
Moveable Inspection System			No					
Haunches Present ov	er Road	dway	YES					
Utilities	2 Wa 4 Tele	ter ephone						

—— PROPOSED IMPROVEMENTS

(75A) Type of Work Proposed	31 - Replacement -
(75B) Work Done By	Load/Geometry 1 - Work to be done by
(76) Length of Structure Improvement	contractft.
(94) Bridge Improvement Cost	\$
(95) Roadway Improvement Cost	\$
(96) Total Project Cost	\$ 3500
(97) Year of Improvement Estimate	2016
(114) Future ADT	5205
(115) Year of Future ADT	2037
DOT Bridge Program List No	29
Project No	0058-0336
Advertised Date	09/18/2019

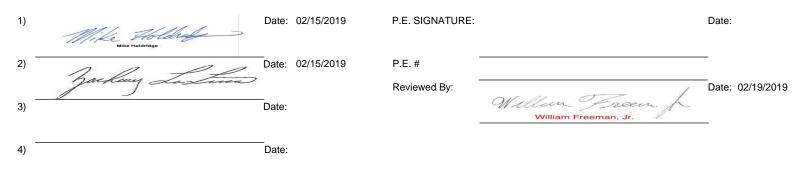
- LOAD RATING & POSTING

(31) Design Load	0 - Unknown
(63) Operating Rating Type	1 - Load Factor (LF)
(64) Operating Rating	51.5
(65) Inventory Rating Type	1 - Load Factor (LF)
(66) Inventory Rating	31
Evaluation Code	L - Load Factor
Year of Evaluation	1997
(70) Bridge Posting	5 - Equal to or above legal loads

A - Open

(41) Structure Status

INSPECTOR'S SIGNATURES:



Form: BRI-20, Rev. 1/14 Inspection type: Special Inspection Date: 2/15/2019 Inspected by: Team 4

Bridge No: 03903

Town: GROTON Carried: MOSHER STREET Crossed: AMTRAK RAILROAD Inventory Route: Non-NHS

SPECIAL INSPECTION

Inspectors:		Visits:	
Lead Inspector:	Michael Holdridge	Visit Date: Temp: Start Time: End Time:	
Inspector:	Task:	02/15/2019 45 10:20 AM 11:10 AM	
Freeman Jr., William	BSE - TE3		
Holdridge, Michael	BSE - Inspector	—	
LaLima, Zachary	BSE - Inspector		
Special Inspection Type:	J Corrosion / Section loss		
Inspection Description:	Check condition of north side sidewalk, ratic	ails and fence from top side and from abutments without fouling	
Feature Inspected:	-Top side of north sidewalk, rails and fence. -Cantilevered sidewalk supports for loose concrete and section loss.		
Inspection Results:	-Rotted and disconnected section of wood (safety) fence at the east end of the north sidewalk.		
	Note: Visual inspection only from abutments of cantilevered sidewalk supports.		
-Concrete appears punky with possible potential spalls at the ends of random supports over tracks.			
	-Perforations in webs of sidewalk support	s # 4,# 5 and # 6 appear unchanged as best can be determined.	
Action To Be Taken:	Continue to monitor until construction sta	rts.	

Open Work Items; sidewalk supports, bearings, underside deck exposed rebar and rivet heads section loss, will be addressed on Project #58-336 with an estimated Advertising Date of 9-18-19

Work Item#03903-2019-0007 submitted wood safety fence

Bridge No: 03903

Town: GROTON Carried: MOSHER STREET Crossed: AMTRAK RAILROAD Inventory Route: Non-NHS



Photo Number: 1

North elevation.

Photo Taken: 02/15/2019



Photo Number: 2

General view of north sidewalk.

Photo Taken: 02/15/2019

Town:GROTONCarried:MOSHER STREETCrossed:AMTRAK RAILROADInventoryRoute:Non-NHS



Photo Number: 3

Photo Taken: 02/15/2019

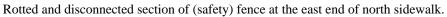




Photo Number: 4

Photo Taken: 02/15/2019

General view of north sidewalk cantilever supports.