2016 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 92247 CSAH 51(LEXINGTON) over RECREATIONAL TRAIL

COUNTY: Ramsey

CITY/TOWNSHIP: St Paul

STATE: Minnesota

DISTRICT: Metro

Date of Inspection: 07/09/2016 Equipment Used:

Owner: County Highway Agency

Inspected By: Engel, Michael; Reimer, Dan; Schaaf, Jerry



Report Written By: Dan Reimer Report Reviewed By: Glenn Pagel Final Report Date: 10/14/2016

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Minnesota Structure Inventory Report

Bridge ID: 9	2247	CSAH 51 ((LEXINGTON)	over RECREATIONAL TRAIL
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Date: 10/14/2016

			+INSPECTION+
		+ R O A D W A Y +	
Agency Br. No.	Crew	Bridge Match ID (TIS) 0	Userkey 199
District	05 Maint. Area	Roadway O/U Key Route On Structure	Structurally Deficient N
County	062 - Ramsey	Route Sys 04 - CSAH Number 51	Functionally Obsolete N
City	St Paul	Roadway Name or Description	Sufficiency Rating 84.4
Township		CSAH 51	Routine Inspection Date 07/09/2016
Desc. Loc.	0.1 MI N OF JCT MSAS 122	Level of Service 1 - MAINLINE	Routine Inspection Frequency 12
Sect., Twp., Range		Roadway Type 2 - 2-way traffic	Inspector Name Reimer, Dan
Latitude	44 • 58 ' 36 ''	Control Section (TH Only)	Status A - Open
Longitude	93 • 8 ' 48 ''	Reference Point 004+00.610	+NBI CONDITION RATINGS+
Custodian	02 - County Highway Agency	Detour Length ^{1.0} mi.	Deck N Unsound
Owner	02 - County Highway Agency	Lanes ON ² UNDER 0	Superstructure 5 Deck %
BMU Agreement		ADT 14342 YEAR 2008	Substructure 7
Year Built	1904	HCADT ADTT %	Channel N
MN Year Reconstru	icted	Functional Class 16 - Urban - Minor Arterial	Culvert N
FHWA Year Recons	structed		
MN Temporary Stat		+RDWY DIMENSIONS+	+NBI APPRAISAL RATINGS+
Bridge Plan Location	on 4 - MUNICIPAL		Structure Evaluation 5
Date Opened to Tra	ffic	If Divided NB-EB SB-WB	Deck Geometry 4
On - Off Syster	n 1 - ON	Roadway Width 36.40 ft. ft.	Underclearances N
Legislative District	66B	Vertical Clearance ft. ft.	Waterway Adequacy N
Potential ABC	2 - N/A	Max. Vert. Clear. ft. ft.	Approach Alignment 5
	STRUCTURE+	Horizontal Clear. 36.3 ft. ft.	Approach Anghinent 5
		Lateral Clearance ft. ft.	+SAFETY FEATURES+
Service On	5 - Highway-pedestrian	Appr. Surface Width 36.0 ft.	
Service Under	3 - Pedestrian - bicycle	Bridge Roadway Width 36.4 ft.	Bridge Railing 0 - SUBSTANDARD
Main Span Type	1 - Concrete	Median Width On Bridge ft.	GR Transition N - NOT REQUIRED
Main Span Design	12 - Arch	+MISC. BRIDGE DATA+	Appr. Guardrail N - NOT REQUIRED
Main Span Detail	U - SPANRDEL FILLED ARCH		GR Termini N - NOT REQUIRED
Appr. Span Type		Structure Flared 0 - No flare	+IN DEPTH INSP.+
Appr. Span Design		Parallel Structure N - No parallel structure	
Appr. Span Detail	0	Field Conn. ID Abutment 1 - CONC	Y/N Freq Date
Skew	0	Foundation (Metaiol(Time) 3 - FTG PILE	Frac. Critical N
Culvert Type		(Material/Type)	Underwater N
Barrel Length		Pier Foundation N - N/A	Pinned Asbly. N
Cantilever ID		(Material/Type) N - N/A	Spec. Feat.
K 1	umbor of Spana		+ W A T E R W A Y +
	Imber of Spans PR: 0 TOTAL:	Historic Status 1 - On National Register	
Main Span Length	38.6 ft.	+ P A I N T +	Drainage Area (sq. mi.)
Structure Length	47.0 ft.	+ # A IN I +	Waterway Opening (sf.)
Deck Width (Out-to-		Year Painted	Navigation Control N - Not applicable, no
Deck Material	N - Not Applicable	Vinsound Paint %	Pier Protection
Wear Surf Type	6 - Bituminous	Painted Area sq. ft.	Nav. Cir. (ft.) Vert. 0.0 Horiz. 0.0
Wear Surf Install Ye		Primer Type	Nav. Vert. Lift Bridge Clear. (ft.)
Wear Course/Fill De		Finish Type	MN Scour Code A - NON Year
Deck Membrane	0 - None	талы туре	+CAPACITY RATINGS+
Deck Rebars	N - Not Applicable (no deck)		Design Load 0 - Other/Unknown
Deck Rebars Install		+BRIDGE SIGNS+	Operating Rating 2 - HS TRUCK 30.0
Structure Area (Out		Posted Load 0 - Not Required	Inventory Rating 2 - HS TRUCK 20.0
Roadway Area (Cur	, , ,	Traffic 0 - Not Required	Posting VEH: SEMI: DBL:
Sidewalk Width 5		Horizontal 0 - Not Required	Rating Date 03/31/2015
Curb Height	Lt 0.00 ft. Rt 0.00 ft.	Vertical 0 - Not Required	Overweight Permit Codes
-	Lt 02 Rt 02		A N - N/A B N - N/A C N - N/A
Rail Type			

MINNESOTA BRIDGE INSPECTION REPORT

10/14/2016

Inspector: CO Bridge

BRIDGE 92247 CSAH 51(LEXINGTON) OVER RECREATIONAL TRAIL

County			N OF JCT MSAS		Length:		47.0 ft.			
City:	St Paul	Route: 04 - CSAH	51 Ref. Pt.:	004+00.610	Deck Wid		53.0 ft.			
ownsl	•	Control Section:			-	ea/ Pct. Un	-			
Sectior	1 0					a/ Pct. Uns	and: sq. f	t./%		
Span T .ist:	ype: 1 - Concrete 11 - Arch - Deck	Local Agency Bridge Nbr.:			Culvert: N/A Postings:					
NBI De	ck: N Super: 5 Sub: 7 Cha	in: N Culv: N								
		Open, Po	sted, Closed: A	- Open						
		MN Scou	r Code: A - NON	WATERWAY						
	sal Ratings - Approach: 5 Waterway:				Un	official Stru	acturally De	eficient	Ν	
Require	ed Bridge Signs - Load Posting: 0 - Not Re	-				Unofficial Functionally Obsolete N				
	Horizntal: 0 - Not Re	quired	Vertical: 0 -	Not Required	Un	official Suf	ficiency Ra	ating	84.4	
ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4		
44	Reinforced Concrete Arch	Routine	07/09/2016	52 LF	13	11	28	0		
		Migrated Values		52 LF	13	11	28	0		
	Notes: There is about 45 SF of spall 1 Underdeck delams / spalls removed fro Moderate cracking, leaching and staini Exposed reinforcement has corrosion /	om arch. 2011 an ng. 2011-16	n 6" in diameter. d 2012-13 and 20	2016 16						
217	Masonry Abutment	Routine	07/09/2016	229 LF	0	0	229	0		
17	,									
217		Migrated Values		229 LF	0	0	229	0		
17	Notes: Tuck pointing is recommended Water staining is present. 2011-16 Mortar joints at both abuts are deteriors 2 blocks on the North and 2 blocks on Cracks and voids are in 10% or more c	. 2012-16 ating. 2015-16 the South are cracke				0	229	0		
	Notes: Tuck pointing is recommended Water staining is present. 2011-16 Mortar joints at both abuts are deteriora 2 blocks on the North and 2 blocks on	. 2012-16 ating. 2015-16 the South are cracke				0	229 0	0		
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34	Notes: Tuck pointing is recommended Water staining is present. 2011-16 Mortar joints at both abuts are deteriors 2 blocks on the North and 2 blocks on Cracks and voids are in 10% or more of Masonry Bridge Railing Notes: Minimum height of a crash railing See appendix "C" safety features of the	2012-16 ating. 2015-16 the South are cracke of the joints. 2016 Routine Migrated Values ng with a speed of 4 e inspection manual.	07/09/2016 0 mph or less is 2 2013-15	200 LF 200 LF 200 LF 200 LF '4". 2010-15	5 200	0	0	0		
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BRIDGE 92247 CSAH 51(LEXINGTON) OVER RECREATIONAL TRAIL

Migrated Values 1 EA 0 1 0 0 Notes: Minor spalling of both walks. 33-04. New curb and walk, 89. E. Curth has 3 spalls. 2010-16 1 0 0 Longitudinal and transverse joints should be sealed. 1993-2016 Mark 90. 1 0 0 Miscellaneous items Cascing is present. 2015-16 1 0 0 0 899 Miscellaneous items Routine 07/09/2016 1 EA 1 0 0 0 900 Protected Species Routine 07/09/2016 1 EA 1 0 0 0 900 Protected Species Routine 07/09/2016 1 EA 1 0 0 0 900 Protected Species Routine 07/09/2016 1 EA 1 0 0 0 900 Protected Species Routine 07/09/2016 1 EA 1 0 0 0 900 Rotes: Use this element to track the presence of protected species living on this structure. Notes: Notes: IEA 1 0 </td <td></td> <td></td> <td>IENT NAME</td> <td>REPORT TYPE</td> <td>INSP. DATE</td> <td>QUANTITY</td> <td></td> <td></td> <td></td> <td>QTY CS 4</td> <td></td>			IENT NAME	REPORT TYPE	INSP. DATE	QUANTITY				QTY CS 4	
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E.curb has 3 spalls. 2010-16 Longitudinal and transverse joints should be sealed. 1993-2016 Many pop outs in the west walk. Scaling is present. 2015-16 The sidewalk ends at the bridge and there are no approach walks. 2000-16 Minor undermining of end walk panel. 2015 Class 5 added - all 4 corners. 2016 899 Miscellaneous ltems Routine 07/09/2016 1 EA 1 0 0 0 Migrated Values 1 EA 1 0 0 0 0 Migrated Values 1 EA 1 0 0 0 0 Migrated Values 1 EA 1 0 0 0 0 Notes: Bituminous trail runs below the bridge. 2016 900 Protected Species Routine 07/09/2016 1 EA 1 0 0 0 0 Migrated Values 1 EA 1 0 0 0 0 Notes: Use this element to track the presence of protected species living on this structure. None found in 2016 General Notes: The bridge owner is Ramsey County. Contact: Nick Fisher 651-266-7119 58. Deck NBI: Bituminous roadway over bridge. Roadway base varies. 2011 36A. Bridg Railings NBI: 36B. Transitions NBI: Posted speed does NOT exceed 40 MPH. 2014 36C. Appr Guardrall Terminal NBI: 59. Superstructure NBI: Extensive cracking. 2011-15 Moderate delams / spalls. 2011-15 60. Substructure NBI: Minor cracking and leaching. 2011 61. Channel NBI: 62. Culver NBI: Minor cracking and leaching. 2011 61. Channel NBI: 62. Culver NBI: Minor cracking and leaching. 2011 61. Channel NBI: 62. Culver NBI: Minor cracking and leaching. 2011 61. Channel NBI: 62. Culver NBI: Minor cracking and leaching. 2011 61. Channel NBI: 62. Culver NBI: Minor cracking and leaching. 2011 61. Channel NBI: 62. Culver NBI: Minor cracking and leaching. 2011 61. Channel NBI: 62. Culver NBI: 72. Appr Roadway Alignment NBI:				Migrated Values		1 EA	0	1	0	0	
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62. Culvert NBI: 71. Waterway Adeq NBI: 72. Appr Roadway Alignment NBI:	60.	Substructure NBI:	Minor cracking and	leaching. 2011							
71. Waterway Adeq NBI: 72. Appr Roadway Alignment NBI:		61. Channel NBI:									
72. Appr Roadway Alignment NBI:		62. Culvert NBI:									
Alignment NBI:	71. Wa	terway Adeq NBI:									
Inventory Notes:	7										
		Inventory Notes:									

Dan Reimer Inspector's Signature

Glenn Pagel Reviewer's Signature



1. 2013 google view_4.png



6. Facing W arch barrel.JPG



11. S Abutment (2).JPG



2. 2014 Elevation view 021.JPG



7. N Abutment (1).JPG



12. S abutment failed morter joints.JPG



3. E Curbline.JPG



8. N Abutment (2).JPG



13. side view facing E.JPG



4. E Sidewalk.JPG



9. N abutment failed morter joints.JPG



14. stone parapet cape failed morter joints.JPG



5. Facing E arch barrel.JPG



10. S Abutment (1).JPG



15. W Sidewalk (1).JPG



16. W Sidewalk (2).JPG