

2016 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 62634 CSAH 36 over RAILROADS AND STR

DISTRICT: Metro

COUNTY: Ramsey

CITY/TOWNSHIP: St Paul

STATE: Minnesota

Date of Inspection: 12/30/2016

Equipment Used:

Owner: County Highway Agency

Inspected By: Ekstrand, Ron; Engel, Michael; Reimer, Dan

Report Written By: Dan Reimer

Report Reviewed By: Glenn Pagel

Final Report Date: 01/03/2017

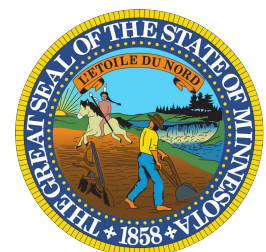


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Minnesota Structure Inventory Report

Bridge ID: 62634

CSAH 36 over RAILROADS AND STR

Date: 12/30/2016

+ GENERAL +	+ ROADWAY +	+ INSPECTION +			
Agency Br. No. Crew	Bridge Match ID (TIS) 1	Userkey	199		
District 05 Maint. Area	Roadway O/U Key Route On Structure	Structurally Deficient	N		
County 062 - Ramsey	Route Sys 04 - CSAH Number 36	Functionally Obsolete	Y		
City St Paul	Roadway Name or Description	Sufficiency Rating	89.5		
Township	CSAH 36(Warner Rd)	Routine Inspection Date	12/30/2016		
Desc. Loc. 0.8 MI SW OF JCT TH 61	Level of Service 1 - MAINLINE	Routine Inspection Frequency	12		
Sect., Twp., Range 4 - 028N - 22W	Roadway Type 1 - 1-way traffic	Inspector Name	Reimer, Dan		
Latitude 44° 56' 37.91 "	Control Section (TH Only)	Status	A - Open		
Longitude 93° 3' 11.11 "	Reference Point 001+00.561	+ NBI CONDITION RATINGS +			
Custodian 04 - City or Municipal Highway	Detour Length 3.0 mi.	Deck	8	Unsound Deck %	
Owner 02 - County Highway Agency	Lanes ON 2 UNDER 1	Superstructure	8		
BMU Agreement	ADT 17900 YEAR 2011	Substructure	8		
Year Built 2014	HCADT ADTT %	Channel	N		
MN Year Reconstructed	Functional Class 14 - Urban - Other Principal Arterial	Culvert	N		
FHWA Year Reconstructed	+ RDWY DIMENSIONS +				
MN Temporary Status	If Divided NB-EB SB-WB	Structure Evaluation	8		
Bridge Plan Location 3 - COUNTY	Roadway Width 32.0 ft. ft.	Deck Geometry	4		
Date Opened to Traffic 10/01/2015	Vertical Clearance ft. ft.	Underclearances	3		
On - Off System 1 - ON	Max. Vert. Clear. ft. ft.	Waterway Adequacy	N		
Legislative District 67B	Horizontal Clear. 32.0 ft. ft.	Approach Alignment	9		
Potential ABC 2 - N/A	Lateral Clearance ft. ft.	+ SAFETY FEATURES +			
+ STRUCTURE +		Bridge Railing	1 - MEETS STANDARDS		
Service On 5 - Highway-pedestrian	Appr. Surface Width 32.0 ft.	GR Transition	1 - MEETS STANDARDS		
Service Under 4 - Highway - railroad	Bridge Roadway Width 32.0 ft.	Appr. Guardrail	1 - MEETS STANDARDS		
Main Span Type 5 - Prestress or Precast	Median Width On Bridge ft.	GR Termini	1 - MEETS STANDARDS		
Main Span Design 01 - Beam Span	+ MISC. BRIDGE DATA +				
Main Span Detail	Structure Flared 1 - Flared	+ IN DEPTH INSP. +			
Appr. Span Type	Parallel Structure R - Right structure (North or East)	Frac. Critical	Y/N	Freq	Date
Appr. Span Design	Field Conn. ID	Underwater	N		
Appr. Span Detail	Abutment 1 - CONC	Pinned Asbly.	N		
Skew 49 LEFT	Foundation (Material/Type) 3 - FTG PILE	Spec. Feat.			
Culvert Type	Pier Foundation 1 - CONC	+ WATERWAY +			
Barrel Length	Foundation (Material/Type) 3 - FTG PILE	Drainage Area (sq. mi.)			
Cantilever ID	Historic Status 5 - Not eligible	Waterway Opening (sf.)			
Number of Spans		Navigation Control	N - Not applicable, no		
MAIN: 7 APPR: 0 TOTAL:	+ PAINT +				
Main Span Length 162.9 ft.	Year Painted	Pier Protection			
Structure Length 842.2 ft.	Unsound Paint %	Nav. Clr. (ft.)	Vert.	0.0	Horiz.
Deck Width (Out-to-Out) 42.7 ft.	Painted Area sq. ft.	Nav. Vert. Lift Bridge Clear. (ft.)			
Deck Material 1 - Concrete Cast-in-Place	Primer Type	MN Scour Code	A - NON	Year	
Wear Surf Type 4 - Low Slump Concrete	Finish Type	+ CAPACITY RATINGS +			
Wear Surf Install Year 2014	+ BRIDGE SIGNS +				
Wear Course/Fill Depth 0.17 ft.	Posted Load 0 - Not Required	Design Load	A - HL 93		
Deck Membrane 0 - None	Traffic 0 - Not Required	Operating Rating	3 - HL-93	1.69	
Deck Rebars 1 - Epoxy Coated Reinforcing	Horizontal 0 - Not Required	Inventory Rating	3 - HL-93	1.06	
Deck Rebars Install Year 2014	Vertical N - Not Applicable	Posting VEH: SEMI: DBL:			
Structure Area (Out-to-Out) 33779 sq. ft.		Rating Date	02/10/2016		
Roadway Area (Curb-to-Curb) 26704 sq. ft.		Overweight Permit Codes			
Sidewalk Width 50A. Lt 0 ft. 50B. Rt 12.0 ft.		A 1 - No Restriction	B 1 - No Restriction	C 1 - No Restriction	
Curb Height Lt 0 ft. Rt 0 ft.					
Rail Type Lt 22 Rt 22					

MINNESOTA BRIDGE INSPECTION REPORT

01/03/2017

Inspector: CO Bridge

BRIDGE 62634 CSAH 36 OVER RAILROADS AND STR

County: Ramsey	Location: 0.8 MI SW OF JCT TH 61	Length: 842.2 ft.
City: St Paul	Route: 04 - CSAH 36 Ref. Pt.: 001+00.561	Deck Width: 42.7 ft.
Township:	Control Section:	Rdwy. Area/ Pct. Unsnd: 26704 sq. ft. / %
Section: 4 Township: 028N Range: 22W Maint. Area:		Paint Area/ Pct. Unsnd: sq. ft. / %
Span Type: 5 - Prestressed Concrete 2 - List: Stringer/Multi-beam or Girder	Local Agency Bridge Nbr.:	Culvert: N/A
NBI Deck: 8 Super: 8 Sub: 8 Chan: N Culv: N		Postings:
	Open, Posted, Closed: A - Open	
	MN Scour Code: A - NON WATERWAY	
Appraisal Ratings - Approach: 9 Waterway: N		Unofficial Structurally Deficient N
Required Bridge Signs - Load Posting: 0 - Not Required	Traffic: 0 - Not Required	Unofficial Functionally Obsolete Y
Horizontal: 0 - Not Required	Vertical: N - Not Applicable	Unofficial Sufficiency Rating 89.5

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
12	Reinforced Concrete Deck	Routine	12/30/2016	33779 SF	33674	105	0	0
		Migrated Values		33779 SF	33674	105	0	0
	Notes: Light leaching is present. No build up. 2016							
510 -	Wearing Surfaces	Routine	12/30/2016	26704 SF	26704	0	0	0
		Migrated Values		26704 SF	26704	0	0	0
	Notes: Top of Concrete Deck with Epoxy Reinforcement Notes:							
109	Prestressed Concrete Open Girder/Beam	Routine	12/30/2016	3629 LF	3629	0	0	0
		Migrated Values		3629 LF	3629	0	0	0
210	Reinforced Concrete Pier Wall	Routine	12/30/2016	186 LF	186	0	0	0
		Migrated Values		186 LF	186	0	0	0
	Notes: Tire rub is present on the 2nd pier from the west end. 2016							
215	Reinforced Concrete Abutment	Routine	12/30/2016	151 LF	151	0	0	0
		Migrated Values		151 LF	151	0	0	0
	Notes: Minor vertical and diagonal cracks present at the west abut. 2016							
234	Reinforced Concrete Pier Cap	Routine	12/30/2016	369 LF	369	0	0	0
		Migrated Values		369 LF	369	0	0	0
	Notes: First cap - W. end has a minor chip from impact damage. Bottom side. 2016 4th cap from the west end has staining.							
300	Strip Seal Expansion Joint	Routine	12/30/2016	161 LF	161	0	0	0
		Migrated Values		161 LF	161	0	0	0
310	Elastomeric Bearing	Routine	12/30/2016	25 EA	25	0	0	0
		Migrated Values		25 EA	25	0	0	0
313	Fixed Bearing	Routine	12/30/2016	34 EA	34	0	0	0
		Migrated Values		34 EA	34	0	0	0

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ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
321	Reinforced Concrete Approach Slab	Routine	12/30/2016	1280 SF	1280	0	0	0
		Migrated Values		1280 SF	1280	0	0	0
Notes: Check quantity in 2017.								
330	Metal Bridge Railing	Routine	12/30/2016	285 LF	285	0	0	0
		Migrated Values		285 LF	285	0	0	0
	515 - Steel Protective Coating	Routine	12/30/2016	760 SF	760	0	0	0
		Migrated Values		760 SF	760	0	0	0
331	Reinforced Concrete Bridge Railing	Routine	12/30/2016	2155 LF	2155	0	0	0
		Migrated Values		2155 LF	2155	0	0	0
800	Critical Deficiencies or Safety Hazards	Routine	12/30/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
Notes: NO CRITICAL FINDINGS OBSERVED DURING THE LAST INSPECTION. 2016								
810	Concrete Decks - Cracking & Sealing	Routine	12/30/2016	0 LF	0	0	0	0
		Migrated Values		0 LF	0	0	0	0
815	Plow Fingers	Routine	12/30/2016	1 EA	0	1	0	0
		Migrated Values		1 EA	0	1	0	0
	Notes: 1 plow finger is missing. SW. end. 2016							
855	Secondary Members (Superstructure)	Routine	12/30/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
Notes: Steel diaphragms. 2016								
880	Impact Damage	Routine	12/30/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
Notes: Chip in bottom of the pier cap. 2016								
892	Slopes & Slope Protection	Routine	12/30/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
894	Deck & Approach Drainage	Routine	12/30/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
895	Sidewalk, Curb, & Median	Routine	12/30/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
899	Miscellaneous Items	Routine	12/30/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0

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ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
900	Protected Species	Routine	12/30/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0

Notes: Use this element to track the presence of protected species living on this structure.
None found in 2016.

General Notes: Added to the City of St. Paul Roster in December of 2016.
Need railroad contacts for 2017.

58. Deck NBI:

36A. Brdg Railings NBI:

36B. Transitions NBI:

36C. Appr Guardrail NBI:

36D. Appr Guardrail
Terminal NBI:

59. Superstructure NBI:

60. Substructure NBI:

61. Channel NBI:

62. Culvert NBI:

71. Waterway Adeq NBI:

72. Appr Roadway
Alignment NBI:

Inventory Notes:

Dan Reimer
Inspector's Signature

Glenn Pagel
Reviewer's Signature



1. 1st Pier Cap, S end of bridge, W side (1).JPG



2. 1st Pier Cap, S end of Bridge, W side (2).JPG



3. 2nd from the S Pier wall, S side.JPG



4. 4th Cap from the S, S side.JPG



5. 2015 aerial view3D.PNG



6. 2015 aerial view3Deast-end.PNG



7. 2015 aerial view3Dwest-end.PNG



8. 2015 elevation view3.PNG



9. 2015 elevation view4.PNG



10. 2015 elevation view5.PNG



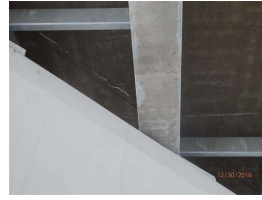
11. 2015 elevation view6.PNG



12. Above 2nd from the S Pier Wall.JPG



13. Above S Pier Wall (1).JPG



14. Above S Pier Wall (2).JPG



15. Between 1st & 2nd Pier Walls from the N.JPG