

**2016 ROUTINE
BRIDGE INSPECTION REPORT**



**BRIDGE # 62618
CP RAIL over STREET 69**

DISTRICT: Metro

COUNTY: Ramsey

CITY/TOWNSHIP: Maplewood

STATE: Minnesota

Date of Inspection: 09/08/2016

Equipment Used:

Owner: Railroad

Inspected By: Essler, Brian

Report Written By: Brian Essler
Report Reviewed By: Nicklaus Fischer
Final Report Date: 10/04/2016

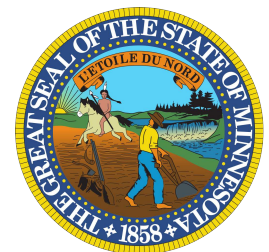


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Minnesota Structure Inventory Report

Bridge ID: 62618

CP RAIL

over STREET 69

Date: 10/04/2016

GENERAL			
Agency Br. No.			
District Metro			
Maint. Area		Crew	
County 062 - Ramsey			
City Maplewood			
Township			
Desc. Loc. 0.1 MI E OF JCT TH 49			
Sect., Twp., Range		18 - 029N - 22W	
Latitude Deg	44	Min	59
Sec	56.65		
Longitude Deg	93	Min	6
Sec	8.1		
Custodian 27 - Railroad			
Owner 27 - Railroad			
BMU Agreement			
Year Built		2005	
MN Year Reconstructed			
FHWA Year Reconstructed			
MN Temporary Status			
Bridge Plan Location 3 - COUNTY			
Date Opened to Traffic			
On-Off System		0 - OFF	
Legislative District 55A			
ABC Suitable			

STRUCTURE	
Service On	2 - Railroad
Service Under	1 - Highway, w/ or w/out ped.
Main Span Type	
3 - Steel	05 - Thru Girder
Main Span Detail	
Appr. Span Type	
Appr. Span Detail	
Skew	0
Culvert Type	
Barrel Length	ft.
Cantilever ID	

NUMBER OF SPANS			
MAIN:	1	APPR:	0
TOTAL:	1		
Main Span Length	48.0	ft.	
Structure Length	54.8	ft.	
Deck Width (Out-to-Out)	68.9	ft.	
Deck Material	1 - Concrete Cast-in-Place		
Wear Surf Type	N - Not Applicable (applies onl		
Wear Surf Install Year			
Wear Course/Fill Depth	ft.		
Deck Membrane	0 - None		
Deck Rebars	0 - None		
Deck Rebars Install Year			
Structure Area (Out-to-Out)	1152	sq. ft.	
Roadway Area (Curb-to-Curb)	sq. ft.		
Sidewalk Width	Lt 0.00	ft.	Rt 0.00
Curb Height	Lt	ft.	Rt
Rail Type	Lt NN	Rt NN	

ROADWAY		
Bridge Match ID (TIS)		
Roadway O/U Key none		
Route Sys	Number	
Roadway Name or Description		
Level of Service		
Roadway Type		
Control Section (TH Only)		
Reference Point		
Detour Length	mi	
Lanes	On	Under
	ADT	Year
HCACT	0	ADTT 0 %
Functional Class		

RDWY DIMENSIONS		
If Divided	NB-EB	SB-WB
Roadway Width	ft.	ft.
Vertical Clearance	ft.	ft.
Max. Vert. Clear.	ft.	ft.
Horizontal Clear.	ft.	ft.
Lateral Clearance	ft.	ft.
Appr. Surface Width	ft.	
Bridge Roadway Width	ft.	
Median Width On Bridge	ft.	

MISC. BRIDGE DATA	
Structure Flared	0 - No flare
Parallel Structure	N - No parallel structure
Field Conn. ID	
Abutment Foundation	1 - CONC
(Material/Type)	3 - FTG PILE
Pier Foundation	N - N/A
(Material/Type)	N - N/A
Historic Status	5 - Not eligible

PAINT	
Year Painted	2005
Unsound Paint %	
Painted Area	68889 sq. ft.
Primer Type	E - Inorganic Zinc - 3309
Finish Type	M - Urethane

BRIDGE SIGNS	
Posted Load	0 - Not Required
Traffic	0 - Not Required
Horizontal	0 - Not Required
Vertical	0 - Not Required

INSPECTION	
Userkey	102
Unofficial Structurally Deficient	N
Unofficial Functionally Obsolete	N
Unofficial Sufficiency Rating	-2
Routine Inspection Date	09/08/2016
Routine Inspection Frequency	12
Inspector Name	CO Bridge
Status	A - Open

NBI CONDITION RATINGS	
Deck	7 - Good Condition
Unsound Deck %	
Superstructure	7 - Good Condition
Substructure	7 - Good Condition
Channel	N - Not Applicable
Culvert	N - Not Applicable

NBI APPRAISAL RATINGS	
Structure Evaluation N	
Deck Geometry	N
Underclearances	3
Water Adequacy	N - Not Applicable
Approach Alignment	N - Not Applicable

SAFETY FEATURES	
Bridge Railing	N - NOT REQUIRED
GR Transition	N - NOT REQUIRED
Appr. Guardrail	N - NOT REQUIRED
GR Termini	N - NOT REQUIRED

IN DEPTH INSP.			
	Y/N	Freq	Date
Frac. Critical	N		
Underwater	N		
Pinned Asbly.	N		
Spec. Feat.			

WATERWAY			
Drainage Area (sq. mi.)			
Waterway Opening	sq. ft.		
Navigation Control	N - Not applicable, no waterw		
Pier Protection			
Nav. Clr. (ft.)	Vert.	ft.	Horiz. ft.
Nav. Vert. Lift Bridge Clear. (ft.)			
MN Scour Code	A - NON WATER'	Year	

CAPACITY RATINGS		
Design Load	8 - RAILROAD	
Operating Rating	5 - NRAP	88.2
Inventory Rating	5 - NRAP	88.2
Posting VEH:	SEMI:	DBL:
Rating Date		
Minnesota Permit Codes		
A: N - N/A		
B: N - N/A		
C: N - N/A		

Minnesota Structure Inventory Report

Bridge ID: 62618

CP RAIL over STREET 69

Date: 09/07/2016

+ GENERAL +	+ ROADWAY +	+ INSPECTION +																				
Agency Br. No. Crew District 05 Maint. Area County 062 - Ramsey City Maplewood Township Desc. Loc. 0.1 MI E OF JCT TH 49 Sect., Twp., Range 18 - 029N - 22W Latitude 44 ° 59 ' 56.65 " Longitude 93 ° 6 ' 8.1 " Custodian 27 - Railroad Owner 27 - Railroad BMU Agreement Year Built 2005 MN Year Reconstructed FHWA Year Reconstructed MN Temporary Status N - Not Applicable Bridge Plan Location 3 - COUNTY Date Opened to Traffic On - Off System 0 - OFF Legislative District 55A Potential ABC 2 - N/A	Bridge Match ID (TIS) Roadway O/U Key Route Sys Number Roadway Name or Description Level of Service Roadway Type Control Section (TH Only) Reference Point Detour Length mi. Lanes ON UNDER 2 ADT YEAR HCA DT ADTT % Functional Class	Userkey 102 Structurally Deficient N Functionally Obsolete N Sufficiency Rating -2 Routine Inspection Date 09/08/2016 Routine Inspection Frequency 12 Inspector Name Essler, Brian Status A - Open																				
		+ NBI CONDITION RATINGS +																				
		Deck 7 Unsound Deck % Superstructure 7 Substructure 7 Channel N Culvert N																				
	+ RDWY DIMENSIONS +	+ NBI APPRAISAL RATINGS +																				
	If Divided NB-EB SB-WB Roadway Width ft. ft. Vertical Clearance ft. ft. Max. Vert. Clear. ft. ft. Horizontal Clear. ft. ft. Lateral Clearance ft. ft. Appr. Surface Width ft. Bridge Roadway Width ft. Median Width On Bridge ft.	Structure Evaluation N Deck Geometry N Underclearances 3 Waterway Adequacy N Approach Alignment N																				
+ STRUCTURE +	+ MISC. BRIDGE DATA +	+ SAFETY FEATURES +																				
Service On 2 - Railroad Service Under 1 - Highway, w/ or w/out ped. Main Span Type 3 - Steel Main Span Design 05 - Thru Girder Main Span Detail Appr. Span Type Appr. Span Design Appr. Span Detail Skew 0 Culvert Type Barrel Length Cantilever ID	Structure Flared 0 - No flare Parallel Structure N - No parallel structure Field Conn. ID Abutment Foundation (Material/Type) 1 - CONC 3 - FTG PILE Pier Foundation (Material/Type) N - N/A N - N/A Historic Status 5 - Not eligible	Bridge Railing N - NOT REQUIRED GR Transition N - NOT REQUIRED Appr. Guardrail N - NOT REQUIRED GR Termini N - NOT REQUIRED																				
	+ PAINT +	+ IN DEPTH INSP. +																				
Number of Spans MAIN: 1 APPR: 0 TOTAL: Main Span Length 48.0 ft. Structure Length 54.8 ft. Deck Width (Out-to-Out) 68.9 ft. Deck Material 1 - Concrete Cast-in-Place Wear Surf Type N - Not Applicable (applies Wear Surf Install Year Wear Course/Fill Depth ft. Deck Membrane 0 - None Deck Rebars 0 - None Deck Rebars Install Year Structure Area (Out-to-Out) 1152 sq. ft. Roadway Area (Curb-to-Curb) sq. ft. Sidewalk Width 50A. Lt 0.00 ft. 50B. Rt 0.00 ft. Curb Height Lt ft. Rt ft. Rail Type Lt NN Rt NN	Year Painted 2005 Unsound Paint % Painted Area 68889 sq. ft. Primer Type E - Inorganic Zinc - 3309 Finish Type M - Urethane	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Y/N</th> <th style="text-align: center;">Freq</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td>Frac. Critical</td> <td style="text-align: center;">N</td> <td></td> <td></td> </tr> <tr> <td>Underwater</td> <td style="text-align: center;">N</td> <td></td> <td></td> </tr> <tr> <td>Pinned Asbly.</td> <td style="text-align: center;">N</td> <td></td> <td></td> </tr> <tr> <td>Spec. Feat.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Y/N	Freq	Date	Frac. Critical	N			Underwater	N			Pinned Asbly.	N			Spec. Feat.			
	Y/N	Freq	Date																			
Frac. Critical	N																					
Underwater	N																					
Pinned Asbly.	N																					
Spec. Feat.																						
	+ BRIDGE SIGNS +	+ WATERWAY +																				
	Posted Load 0 - Not Required Traffic 0 - Not Required Horizontal 0 - Not Required Vertical 0 - Not Required	Drainage Area (sq. mi.) Waterway Opening (sf.) Navigation Control N - Not applicable, no Pier Protection Nav. Clr. (ft.) Vert. 0.0 Horiz. 0.0 Nav. Vert. Lift Bridge Clear. (ft.) 0 MN Scour Code A - NON Year																				
		+ CAPACITY RATINGS +																				
		Design Load 8 - RAILROAD Operating Rating 7 - RAILROAD 88.2 Inventory Rating 7 - RAILROAD 88.2 Posting VEH: SEMI: DBL: Rating Date Overweight Permit Codes A N - N/A B N - N/A C N - N/A																				

MINNESOTA BRIDGE INSPECTION REPORT

10/04/2016

BRIDGE 62618 CP RAIL OVER STREET 69

ROUTINE INSP. DATE: 09/08/2016

County: Ramsey	Location: 0.1 MI E OF JCT TH 49	Length: 54.8 ft.
City: Maplewood	Route: Ref. Pt.:	Deck Width: 68.9 ft.
Township:	Control Section:	Rdwy. Area/ Pct. Unsnd: sq. ft. / %
Section: 18 Township: 029N Range: 22W Maint. Area:		Paint Area/ Pct. Unsnd: 68889 sq. ft. / %
Span Type: 3 - Steel 3 - Girder and Floorbeam	Local Agency Bridge Nbr.:	Culvert: N/A
List: System		Postings:
NBI Deck: 7 Super: 7 Sub: 7 Chan: N Culv: N		

Appraisal Ratings - Approach: N Waterway: N	Open, Posted, Closed: A - Open	MN Scour Code: A - NON WATERWAY
Required Bridge Signs - Load Posting: 0 - Not Required	Traffic: 0 - Not Required	Unofficial Structurally Deficient N
Horizontal: 0 - Not Required	Vertical: 0 - Not Required	Unofficial Functionally Obsolete N
		Unofficial Sufficiency Rating N

ELEM NBR	ELEMENT NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
107	Painted Steel Girder or Beam	2	Routine	09/08/2016	102 LF	92	10	0	0	0
			Routine	09/11/2015	102 LF	92	10	0	0	0

Notes: [2012-2015] There are some minor scrapes visible underneath east painted steel girder. There is also some minor peeling of paint with corrosion present. 10% of the painted steel girder should be in condition state #2.
 [2008] The areas that had scrapes have been re-painted.
 [2006] There are minor but numerous scrapes on the east girder. [2006] On the east girder need to re-paint 5 LF and on the west girder need to re-paint 1 LF.
 [2005] Collision damage to the east girder. East girder has surface rust at traffic impact location. Repairs are recommended to the paint system.
 There are two 66" deep welded steel "Through Girders" that have pipe railing mounted on top.

152	Painted Steel Floorbeam	2	Routine	09/08/2016	440 LF	396	44	0	0	0
			Routine	09/11/2015	440 LF	396	44	0	0	0

Notes: [2012-2015] There is some peeling of paint with corrosion present. 10% of the painted steel floorbeam is rated in condition state #2.
 [2008] The scrapes have been re-painted.
 [2006] Minor scrapes due to collision damage at the east side. East side 12 LF of surface rust is forming.
 [2005] 1 LF of surface rust is forming.

215	Reinforced Concrete Abutment	2	Routine	09/08/2016	52 LF	26	26	0	0	N/A
			Routine	09/11/2015	52 LF	26	26	0	0	N/A

Notes: SOUTH ABUTMENT
 [2015] Minor paint failure on south abutment
 [2010-2015] There are numerous horizontal & vertical cracking on the south abutment. There is a 9' moderate full height crack at centerline of the south abutment.
 NORTH ABUTMENT
 [2015] Minor paint failure on north abutment
 [2011-2015] There are 30 LF of minor horizontal & vertical cracks on the north abutment.
 [2010-2015] There is 10 LF of minor vertical cracking on the north abutment at centerline.
 [2008-2015] There is a 12" scrape at west end of north abutment at bottom.
 [2005-2015] Minor to moderate spalls are present both abutments.

311	Expansion Bearing	2	Routine	09/08/2016	2 EA	2	0	0	N/A	N/A
			Routine	09/11/2015	2 EA	2	0	0	N/A	N/A

Notes: [2005-2015] Alignment is within limits, no sign of collision damage. South abutment

ELEM NBR	ELEMENT NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
313	Fixed Bearing	2	Routine	09/08/2016	2 EA	2	0	0	N/A	N/A
			Routine	09/11/2015	2 EA	2	0	0	N/A	N/A
Notes: [2005-2015] Alignment is within limits, no sign of collision damage. North abutment										
334	Metal Bridge Railing (Coated or Painted)	2	Routine	09/08/2016	220 LF	0	220	0	0	0
			Routine	09/11/2015	220 LF	0	220	0	0	0
Notes: [2013-2015] There is some minor corrosion present @ center post on both east & west sides of bridge. [2008-2013] There is some minor chalking and chipping of paint. Railing has been touched up on both sides. There is 120 LF of pipe rail type A and 100 LF of pipe rail type B.										
362	Traffic Impact Smart Flag	2	Routine	09/08/2016	1 EA	1	0	0	N/A	N/A
			Routine	09/11/2015	1 EA	1	0	0	N/A	N/A
Notes: [2011-2015] Traffic impact appears to be OK. [2008] The superstructure has been re-painted as needed to repair collision damage. Some collision damage in 2005.										
387	Reinforced Concrete Wingwall	2	Routine	09/08/2016	4 EA	0	4	0	0	N/A
			Routine	09/11/2015	4 EA	0	4	0	0	N/A
Notes: [2013-2014] NW wingwall has a 14' moderate vertical crack, 3 - 5' minor diagonal cracks and a 3' 4' and 5' minor diagonal cracks at the north corner. [2013-2015] NE wingwall has a minor 7' diagonal, 2 3' diagonal, and a 7' vertical cracks. [2012-2015] The SW wingwall has a 12' diagonal crack at wingwall drain + 2- 4' minor diagonal cracks. [2006-2015] The SE wingwall contains minor 6' vertical crack, 3' vertical crack and a 2' diagonal crack. [2013-2014] NW wingwall has 3 5' minor diagonal cracks. [2006-2012] The NE wingwall has a minor 6' diagonal, 3' diagonal, 3' diagonal and a 6' minor vertical crack. [2012-2014] The NW wingwall has a 14' moderate vertical crack, minor cracking at drain and minor horizontal & vertical cracking at the north end.										
401	Steel Ballast Plate Deck (Railroad Bridges)	2	Routine	09/08/2016	1152 SF	1152	0	0	0	0
			Routine	09/11/2015	1152 SF	1152	0	0	0	0
Notes: [2013-2015] 10% of steel ballast plate deck should be in condition state #2. There is some peeling of paint and corrosion present. The ballast clips are secure. Condition state 1 937 SF. Condition state 2 115 SF [2005-2011] No deterioration of steel ballast plate deck.										
964	Critical Finding Smart Flag	2	Routine	09/08/2016	1 EA	1	0	N/A	N/A	N/A
			Routine	09/11/2015	1 EA	1	0	N/A	N/A	N/A
Notes:										
981	Signing	2	Routine	09/08/2016	1 EA	0	0	0	1	0
			Routine	09/11/2015	1 EA	0	0	0	1	0
Notes: [2015] Vertical clearance signs should be posted at the closest intersection. [2012-2014] Vertical clearance signs should be posted near the bridge and at the closest intersection. [2012-2014] The under clearance is 10' 3" in the roadway.										

General Notes: [2016] Bridge safety inspection was completed by B Essler & D Bodelson 9-8-2016.
[2015] Bridge safety inspection was completed by B Essler & D Bodelson 9-11-2015.
[2014] Bridge safety inspection was completed by D Bodelson & B. Essler 9-22-2014.
[2013] Bridge safety inspection was completed by B Essler & D Bodelson 9-26-2013.
[2012] Bridge safety inspection was completed by Bret Wieman 10/31/2012.
2011 Bridge safety inspection was completed by Bret Wieman 10/31/2011.
2010 Bridge safety inspection was completed by Bret Wieman 11/03/2010.
2008 Bridge safety inspection was completed by Bret Wieman 9/22/2008.
Collision damage has been repaired 2008.
Low clearance indicators have been installed over roadway 15' west and 30' east of the bridge 2008.

ELEM NBR	ELEMENT NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
	Bridge safety inspection was completed by Bret Wieman 10/17/2006. There is 8' of surface rusting of diagonal bracing @ east side due to scrapes. There has been fill and landscaping installed behind the wingwalls 2006. SW slope behind wingwall requires fill to drain away from the wingwall 2005-2006. CLEARANCE 10' 3" OVER ROADWAY CLEARANCE 9' 6" OVER BIKE PATH.									
58.	Deck NBI:									
	Minor peeling of paint with corrosion present in floor beam.									
36A.	Brdg Railings NBI:									
	Railroad bridge									
36B.	Transitions NBI:									
	Railroad bridge									
36C.	Appr Guardrail NBI:									
	Railroad bridge									
36D.	Appr Guardrail Terminal NBI:									
	Railroad bridge									
59.	Superstructure NBI:									
	Minor peeling of paint with corrosion present. traffic impact damage to east girder									
60.	Substructure NBI:									
	Minor cracking on both abutments									
61.	Channel NBI:									
	Bridge not over waterway									
62.	Culvert NBI:									
	Bridge									
71.	Waterway Adeq NBI:									
	Bridge not over waterway									
72.	Appr Roadway Alignment NBI:									
	Railroad bridge									
	Inventory Notes:									

Brian Essler
 Inspector's Signature

Nicklaus Fischer
 Reviewer's Signature

MINNESOTA BRIDGE INSPECTION REPORT

10/04/2016

Inspector: CO Bridge

BRIDGE 62618 CP RAIL OVER STREET 69

County: Ramsey	Location: 0.1 MI E OF JCT TH 49	Length: 54.8 ft.
City: Maplewood	Route: Ref. Pt.:	Deck Width: 68.9 ft.
Township:	Control Section:	Rdwy. Area/ Pct. Unsnd: sq. ft. / %
Section: 18 Township: 029N Range: 22W Maint. Area:		Paint Area/ Pct. Unsnd: 68889 sq. ft. / %
Span Type: 3 - Steel 3 - Girder and Floorbeam	Local Agency Bridge Nbr.:	Culvert: N/A
List: System		Postings:
NBI Deck: 7 Super: 7 Sub: 7 Chan: N Culv: N		
	Open, Posted, Closed: A - Open	
	MN Scour Code: A - NON WATERWAY	

Appraisal Ratings - Approach: N Waterway: N		Unofficial Structurally Deficient N
Required Bridge Signs - Load Posting: 0 - Not Required	Traffic: 0 - Not Required	Unofficial Functionally Obsolete N
Horizontal: 0 - Not Required	Vertical: 0 - Not Required	Unofficial Sufficiency Rating N

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
30	Steel Deck Corrugated/Orthotropic/Etc.	Routine	09/08/2016	1152 SF	1037	115	0	0
		Migrated Values		1152 SF	1037	115	0	0
Notes:								
[2013-2016] 10% of steel ballast plate deck should be in condition state #2. There is some peeling of paint and corrosion present. The ballast clips are secure. Condition state 1 937 SF. Condition state 2 115 SF								
[2005-2011] No deterioration of steel ballast plate deck.								
510	Wearing Surfaces	Routine	09/08/2016	1152 SF	1152	0	0	0
		Migrated Values		1152 SF	1152	0	0	0
Notes: [2016] Ballast and tracks above steel deck .								
515	Steel Protective Coating	Routine	09/08/2016	1152 SF	1037	115	0	0
		Migrated Values		1152 SF	1037	115	0	0
Notes: There is some peeling of paint and corrosion present. The ballast clips are secure. Condition state 1 937 SF. Condition state 2 115 SF								
107	Steel Open Girder/Beam	Routine	09/08/2016	102 LF	92	10	0	0
		Migrated Values		102 LF	92	10	0	0
Notes: [2016] Minor rust on east girder.								
[2016] 2 Steel 50.5' Girders with a 5.5' Web & a 2.85' Flange.								
[2012-2016] There are some minor scrapes visible underneath east painted steel girder. There is also some minor peeling of paint with corrosion present. 10% of the painted steel girder should be in condition state #2.								
[2008] The areas that had scrapes have been re-painted.								
[2006] There are minor but numerous scrapes on the east girder. [2006] On the east girder need to re-paint 5 LF and on the west girder need to re-paint 1 LF.								
[2005] Collision damage to the east girder. East girder has surface rust at traffic impact location. Repairs are recommended to the paint system. There are two 66" deep welded steel "Through Girders" that have pipe railing mounted on top.								
515	Steel Protective Coating	Routine	09/08/2016	8095 SF	7285	810	0	0
		Migrated Values		8095 SF	7285	810	0	0
Notes: [2016] 2 Steel 50.5' Girders with a 5.5' web & a 2.85' Flange. [(2X50.5'X4X2.85')+(2X50.5'X2X5.5')]= 8095 SF. Condition state 1 7285 SF. Condition state 2 810 SF								

BRIDGE 62618 CP RAIL OVER STREET 69

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
152	Steel Floor Beam	Routine	09/08/2016	440 LF	396	44	0	0
		Migrated Values		440 LF	396	44	0	0
<p>Notes: [2016] 21-21' W 24 X 76 Steel Floor Beams with a 23.9" web & a 9" Flange. [2012-2016] There is some peeling of paint with corrosion present. 10% of the painted steel floorbeam is rated in condition state #2. [2008] The scrapes have been re-painted. [2006] Minor scrapes due to collision damage at the east side. East side 12 LF of surface rust is forming. [2005] 1 LF of surface rust is forming.</p>								
515 -	Steel Protective Coating	Routine	09/08/2016	1854 SF	1669	185	0	0
		Migrated Values		1854 SF	1669	185	0	0
<p>Notes: [2016] 21-21' W 24 X 76 Steel Floor Beams with a 23.9" web & a 9" Flange. [(21X21'X3X0.75)+(21X21'X2X1.99)]=1854 SF. Condition state 1 1669 SF. Condition state 2 185 SF 32-2.5' S18 X 54.7 and 8-2' S18 X 54.7 Diaphragms. [(32X2.5'X3X0.5)+(8X2'X3X0.5)+(32X2.5'X2X1.5)+(8X2X2X1.5)]=432 SF 4-31.89' MC10 X22 Cross Braces. [(4X31.89'X2X0.85)+(4X31.89'X3X0.28)]=324 SF</p>								
215	Reinforced Concrete Abutment	Routine	09/08/2016	92 LF	26	66	0	0
		Migrated Values		92 LF	26	66	0	0
<p>Notes: [2016] Migrator added 40 LF to abutment quantity to account for wingwalls (CS1:0 CS2:40 CS3:0 CS4:0). SOUTH ABUTMENT [2015-2016] Minor paint failure on south abutment [2010-2016] There are numerous horizontal & vertical cracking on the south abutment. There is a 9' moderate full height crack at centerline of the south abutment. NORTH ABUTMENT [2015-2016] Minor paint failure on north abutment [2011-2016] There are 30 LF of minor horizontal & vertical cracks on the north abutment. [2010-2016] There is 10 LF of minor vertical cracking on the north abutment at centerline. [2008-2016] There is a 12" scrape at west end of north abutment at bottom. [2005-2016] Minor to moderate spalls are present both abutments.</p> <p>Wingwall notes: [2016] NW wingwall has a 14' moderate vertical crack, 2 - 5' & 1 - 7' minor diagonal cracks and a 3' 4' and 5' minor diagonal cracks at the north corner. [2016] The SE wingwall contains minor 6' vertical crack, 4' vertical crack and a 4' diagonal crack. [2016] NE wingwall has a minor 7' diagonal, 2 3' diagonal, and a 7' vertical cracks with rust. [2012-2016] The SW wingwall has a 12' diagonal crack at wingwall drain + 2- 4' minor diagonal cracks. [2013-2014] NW wingwall has a 14' moderate vertical crack, 3 - 5' minor diagonal cracks and a 3' 4' and 5' minor diagonal cracks at the north corner. [2013-2015] NE wingwall has a minor 7' diagonal, 2 3' diagonal, and a 7' vertical cracks. [2006-2015] The SE wingwall contains minor 6' vertical crack, 3' vertical crack and a 2' diagonal crack. [2013-2014] NW wingwall has 3 5' minor diagonal cracks. [2006-2012] The NE wingwall has a minor 6' diagonal, 3' diagonal, 3' diagonal and a 6' minor vertical crack. [2012-2014] The NW wingwall has a 14' moderate vertical crack, minor cracking at drain and minor horizontal & vertical cracking at the north end.</p>								
311	Movable Bearing	Routine	09/08/2016	2 EA	2	0	0	0
		Migrated Values		2 EA	2	0	0	0
<p>Notes: [2005-2016] Alignment is within limits, no sign of collision damage. North abutment Pot type bearing assembly</p>								
313	Fixed Bearing	Routine	09/08/2016	2 EA	0	2	0	0
		Migrated Values		2 EA	0	2	0	0
<p>Notes: [2016] Alignment is within limits, Bearing seat is deteriorating. [2005-2015] Alignment is within limits, no sign of collision damage. South abutment Pot type bearing assembly</p>								
330	Metal Bridge Railing	Routine	09/08/2016	220 LF	0	220	0	0
		Migrated Values		220 LF	0	220	0	0
<p>Notes: [2013-2016] There is some minor corrosion present @ center post on both east & west sides of bridge. [2008-2013] There is some minor chalking and chipping of paint. Railing has been touched up on both sides. There is 120 LF of pipe rail type A and 100 LF of pipe rail type B.</p>								
515 -	Steel Protective Coating	Routine	09/08/2016	650 SF	0	650	0	0
		Migrated Values		650 SF	0	650	0	0
<p>Notes: [2016] There is 120 LF of pipe rail type A and 100 LF of pipe rail type B. [(3.5'X120)+(2.3'X100)]= 650 SF</p>								

BRIDGE 62618 CP RAIL OVER STREET 69

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
800	Critical Deficiencies or Safety Hazards	Routine	09/08/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
Notes: No critical structural deficiencies or serious safety hazards are present on this structure.								
880	Impact Damage	Routine	09/08/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
Notes: [2011-2016 Traffic impact appears to be OK. [2008] The superstructure has been re-painted as needed to repair collision damage. Some collision damage in 2005.								
890	Load Posting or Vertical Clearance Signing	Routine	09/08/2016	1 EA	0	0	1	0
		Migrated Values		1 EA	0	0	1	0
Notes: [2015-2016] Vertical clearance signs should be posted at the closest intersection. [2012-2014] Vertical clearance signs should be posted near the bridge and at the closest intersection. [2012-2014] The under clearance is 10' 3" in the roadway.								
892	Slopes & Slope Protection	Routine	09/08/2016	1 EA	0	1	0	0
		Migrated Values		1 EA	0	1	0	0
Notes: Minor settlement of the slopes								
894	Deck & Approach Drainage	Routine	09/08/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
Notes: Drainage is in good condition and functioning as intended								
900	Protected Species	Routine	09/08/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
Notes: No protected species found on this structure.								

General Notes: [2016] Bridge safety inspection was completed by B Essler & D Bodelson 9-8-2016.
 [2015] Bridge safety inspection was completed by B Essler & D Bodelson 9-11-2015.
 [2014] Bridge safety inspection was completed by D Bodelson & B. Essler 9-22-2014.
 [2013] Bridge safety inspection was completed by B Essler & D Bodelson 9-26-2013.
 [2012] Bridge safety inspection was completed by Bret Wieman 10/31/2012.
 2011 Bridge safety inspection was completed by Bret Wieman 10/31/2011.
 2010 Bridge safety inspection was completed by Bret Wieman 11/03/2010.
 2008 Bridge safety inspection was completed by Bret Wieman 9/22/2008.
 Collision damage has been repaired 2008.
 Low clearance indicators have been installed over roadway 15' west and 30' east of the bridge 2008.
 Bridge safety inspection was completed by Bret Wieman 10/17/2006.
 There is 8' of surface rusting of diagonal bracing @ east side due to scrapes. There has been fill and landscaping installed behind the wingwalls 2006.
 SW slope behind wingwall requires fill to drain away from the wingwall 2005-2006.
 CLEARANCE 10' 3" OVER ROADWAY
 CLEARANCE 9' 6" OVER BIKE PATH.

58. Deck NBI: Minor peeling of paint with corrosion present in floor beam.

36A. Brdg Railings NBI: Railroad bridge

36B. Transitions NBI: Railroad bridge

36C. Appr Guardrail NBI: Railroad bridge

36D. Appr Guardrail Terminal NBI: Railroad bridge

59. Superstructure NBI: Minor peeling of paint with corrosion present. traffic impact damage to east girder

60. Substructure NBI: Minor cracking on both abutments

61. Channel NBI: Bridge not over waterway

62. Culvert NBI: Bridge

71. Waterway Adeq NBI: Bridge not over waterway

BRIDGE 62618 CP RAIL OVER STREET 69

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
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72. Appr Roadway Railroad bridge
Alignment NBI:

Inventory Notes:

Brian Essler
Inspector's Signature

Nicklaus Fischer
Reviewer's Signature

Pictures



Photo 1 - 62618 NW WW



Photo 2 - 62618 Top

Pictures



Photo 3 - 62618 West side



Photo 4 - Southeast bearing 2016

Pictures



Photo 5 - Southwest bearing 2016