2016 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 62520 CP RAIL over CSAH 23(CR C)

DISTRICT: Metro COUNTY: Ramsey

CITY/TOWNSHIP: Little Canada

STATE: Minnesota

Date of Inspection: 10/18/2016 Equipment Used:

Owner: Railroad

Inspected By: Essler, Brian

STATUS THE STATE

Report Written By: Brian Essler Report Reviewed By: Nicklaus Fischer Final Report Date: 12/02/2016 **SECTION**

<u>PAGE</u>

Minnesota Structure Inventory Report

Bridge ID: 62520 CP RAIL	over CSAH 23(CR C)	Date: 12/02/2016					
GENERAL	ROADWAY	INSPECTION					
Agency Br. No.	Bridge Match ID (TIS)	Userkey 102					
District Metro	Roadway O/U Key none	Unofficial Structurally Deficient N					
Maint. Area Crew	Route Sys Number	Unofficial Functionally Obsolete N					
County 062 - Ramsey	Roadway Name or Description	Unofficial Sufficiency Rating -2					
City Little Canada		Routine Inspection Date 10/18/2016					
Township	Level of Service	Routine Inspection Frequency 12					
Desc. Loc. 0.5 MI E OF JCT TH 49	Roadway Type	Inspector Name CO Bridge					
Sect., Twp., Range 6 - 029N - 22W		Status A - Open					
Latitude Deg 45 Min 1 Sec 21.70	Control Section (TH Only)						
Longitude Deg 93 Min 5 Sec 50.49	Reference Point	NBI CONDITION RATINGS					
Custodian 27 - Railroad	Detour Length mi	Deck N - Not Applicable					
Owner 27 - Railroad	Lanes On Under 4	Unsound Deck %					
BMU Agreement	ADT Year	Superstructure 7 - Good Condition					
Year Built 1971	HCADT 0 ADTT 0 %	Substructure 6 - Satisfactory Condition					
MN Year Reconstructed	Functional Class	Channel N - Not Applicable					
FHWA Year Reconstructed	RDWY DIMENSIONS	Culvert N - Not Applicable					
MN Temporary Status	If Divided NB-EB SB-WB						
Bridge Plan Location 3 - COUNTY	Roadway Width ft. ft.	Structure Evaluation N					
Date Opened to Traffic	Vertical Clearance ft. ft.	Deck Geometry N					
On-Off System 0 - OFF	Max. Vert. Clear. ft. ft.	Underclearances 4					
-	Horizontal Clear. ft. ft.	Water Adequacy N - Not Applicable					
Legislative District 54B ABC Suitable	Lateral Clearance ft. ft.	Approach Alignment 8 - Equal to present desirabl					
	Appr. Surface Width ft.	SAFETY FEATURES					
STRUCTURE	Bridge Roadway Width ft.	Bridge Railing N - NOT REQUIRED					
Service On 2 - Railroad	Median Width On Bridge ft.	GR Transition 0 - SUBSTANDARD					
Service Under 1 - Highway, w/ or w/out ped.		Appr. Guardrail 0 - SUBSTANDARD					
Main Span Type	MISC. BRIDGE DATA	GR Termini 0 - SUBSTANDARD					
3 - Steel 05 - Thru Girder	Structure Flared 0 - No flare	IN DEPTH INSP.					
Main Span Detail	Parallel Structure N - No parallel structure	Y/N Freq Date					
Appr. Span Type	Field Conn. ID	Frac. Critical N					
	Abutment Foundation 1 - CONC	Underwater N					
Appr. Span Detail	(Material/Type) 3 - FTG PILE	Pinned Asbly. N					
Skew 39 L	Pier Foundation N - N/A	Spec. Feat.					
Culvert Type	(Material/Type) N - N/A	WATERWAY					
Barrel Length ft.	Historic Status 5 - Not eligible	Drainage Area (sq. mi.)					
Cantilever ID		Waterway Opening sq. ft.					
NUMBER OF SPANS	PAINT	Navigation Control N - Not applicable, no waterw					
MAIN: 1 APPR: 0 TOTAL: 1	Year Painted 1971	Pier Protection					
Main Span Length 90.0 ft.	Unsound Paint %	Nav. Clr. (ft.) Vert. ft. Horiz. ft.					
Structure Length 99.0 ft.	Painted Area sq. ft.	Nav. Vert. Lift Bridge Clear. (ft.)					
Deck Width (Out-to-Out) 23.3 ft.	Primer Type 1 - Lead - non 3309	MN Scour Code A - NON WATER' Year					
Deck Material N - Not Applicable	Finish Type F Phenolic Resin Alum	CAPACITY RATINGS					
Wear Surf Type N - Not Applicable (applies onl	PRIDCE SIGNS	Design Load 8 - RAILROAD					
Wear Surf Install Year	BRIDGE SIGNS	Operating Rating 2 - AS HS 80.0					
Wear Course/Fill Depth 0.00 ft.	Posted Load 0 - Not Required	Inventory Rating 2 - AS HS 80.0					
Deck Membrane 0 - None	Traffic 0 - Not Required						
Deck Rebars N - Not Applicable (no deck)	Horizontal 0 - Not Required	Posting VEH: SEMI: DBL:					
Deck Rebars Install Year	Vertical 0 - Not Required	Rating Date					
Structure Area (Out-to-Out) 2307 sq. ft.		Minnesota Permit Codes					
		A: N - N/A					
		-					
Roadway Area (Curb-to-Curb) sq. ft. Sidewalk Width Lt 5.00 ft. Rt 5.00 ft.		B: N - N/A					
		B: N - N/A C: N - N/A					

Minnesota Structure Inventory Report

Bridge ID: 62520 CP RAIL over CSAH 23(CR C)

Date: 10/04/2016

	+ G E N E R A L +	+ R O A D W A Y +	+INSPECTION+
Agency Br. No.	Crew	Bridge Match ID (TIS)	Userkey 102
District	05 Maint. Area	Roadway O/U Key	Structurally Deficient N
County	062 - Ramsey	Route Sys Number	Functionally Obsolete N
City	Little Canada	Roadway Name or Description	Sufficiency Rating -2
Township			Routine Inspection Date 10/18/2016
Desc. Loc.	0.5 MI E OF JCT TH 49	Level of Service	Routine Inspection Frequency 12
Sect., Twp., Range	6 - 029N - 22W	Roadway Type	Inspector Name Essler, Brian
Latitude	45 • 1 · 21.70 ··	Control Section (TH Only)	Status A - Open
Longitude	93 ° 5 ' 50.49 ''	Reference Point	+NBI CONDITION RATINGS+
Custodian	27 - Railroad	Detour Length mi.	THE CONDITION RATINGST
Owner	27 - Railroad	Lanes ON UNDER 4	Deck N Unsound
BMU Agreement		ADT YEAR	Superstructure
Year Built	1971	HCADT ADTT %	Substructure 6
MN Year Reconstru	ucted	Functional Class	Channel N
FHWA Year Recon	structed		Culvert N
MN Temporary Sta	tus	+ R D W Y D I M E N S I O N S +	+NBI APPRAISAL RATINGS+
Bridge Plan Locati	on 3 - COUNTY		
Date Opened to Tra	affic	If Divided NB-EB SB-WB	Structure Evaluation N
On - Off Syste	m 0 - OFF	Roadway Width ft. ft.	Deck Geometry N
Legislative District	54B	Vertical Clearance ft. ft.	Underclearances 4
Potential ABC	2 - N/A	Max. Vert. Clear. ft. ft.	Waterway Adequacy N
		Horizontal Clear. ft. ft.	Approach Alignment 8
+	STRUCTURE+	Lateral Clearance ft. ft.	+SAFETY FEATURES+
Service On	2 - Railroad	Appr. Surface Width ft.	
Service Under	1 - Highway, w/ or w/out ped.	Bridge Roadway Width ft.	Bridge Railing N - NOT REQUIRED
Main Span Type	3 - Steel	Median Width On Bridge ft.	GR Transition 0 - SUBSTANDARD
Main Span Design	05 - Thru Girder	+MISC. BRIDGE DATA+	Appr. Guardrail 0 - SUBSTANDARD
Main Span Detail			GR Termini 0 - SUBSTANDARD
Appr. Span Type		Structure Flared 0 - No flare	+IN DEPTH INSP.+
Appr. Span Design	1	Parallel Structure N - No parallel structure	
Appr. Span Detail		Field Conn. ID	Y/N Freq Date
Skew	39 LEFT	Abutment 1 - CONC Foundation	Frac. Critical N
Culvert Type		(Material/Type) 3 - FTG PILE	Underwater N
Barrel Length		Pier Foundation N - N/A	Pinned Asbly. N
Cantilever ID		(Material/Type) N - N/A	Spec. Feat.
			+ W A T E R W A Y +
	umber of Spans	Historic Status 5 - Not eligible	
	PPR: 0 TOTAL:		Drainage Area (sq. mi.)
Main Span Length	90.0 f		Waterway Opening (sf.)
Structure Length	99.0 f		Navigation Control N - Not applicable, no
Deck Width (Out-to	N - Not Applicable		Pier Protection _
Deck Material	N - Not Applicable N - Not Applicable (applies	Unsound Paint %	Nav. Cir. (ft.) Vert. 0.0 Horiz. 0.0
Wear Surf Type		Painted Area sq. ft. Primer Type 1 - Lead - non 3309	Nav. Vert. Lift Bridge Clear. (ft.)
Wear Surf Install Y		Primer Type 1 - Lead - non 3309 Finish Type F Phenolic Resin Alum	MN Scour Code A - NON Year
Wear Course/Fill D Deck Membrane	epth 0.00 ft. 0 - None	Finish type F Phenolic Resin Alum	+CAPACITY RATINGS+
Deck Membrane Deck Rebars	N - Not Applicable (no deck)		Design Load 8 - RAILROAD
Deck Rebars		+ BRIDGE SIGNS+	Operating Rating 7 - RAILROAD 80.0
		Posted Load 0 - Not Required	Inventory Rating 7 - RAILROAD 80.0
Structure Area (Ou			Posting VEH: SEMI: DBL:
			Rating Date
Roadway Area (Cu	50A I + 500 # 500 P+ 500 #		
Sidewalk Width 5			-
	50A.Lt 5.00 ft. 50B.Rt 5.00 ft Lt 0.00 ft. Rt 0.00 ft Lt NN Rt NN		Overweight Permit Codes

MINNESOTA BRIDGE INSPECTION REPORT

12/02/2016

CP RAIL OVER CSAH 23(CR C) **ROUTINE INSP. DATE: 10/18/2016 BRIDGE 62520** County: Ramsey Location: 0.5 MI E OF JCT TH 49 Length: 99.0 ft. City: Little Canada Route: Ref. Pt.: Deck Width: 23.3 ft. Control Section: Rdwy. Area/ Pct. Unsnd: sq. ft. / % Township: Township: 029N Range: 22W Maint. Area: Paint Area/ Pct. Unsnd: sq. ft. / % Section: 6 Span Type: 3 - Steel 3 - Girder and Floorbeam Local Agency Bridge Nbr .: Culvert: N/A System List: Postings: NBI Deck: N Super: 7 Sub: 6 Chan: Ν Culv: N Open, Posted, Closed: A - Open MN Scour Code: A - NON WATERWAY Ν Appraisal Ratings - Approach: 8 Waterway: **Unofficial Structurally Deficient** Ν Required Bridge Signs - Load Posting: 0 - Not Required Traffic: 0 - Not Required Unofficial Functionally Obsolete Ν Horizntal: 0 - Not Required Vertical: 0 - Not Required **Unofficial Sufficiency Rating** Ν ELEM QTY QTY OTY OTY OTY NBR ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY CS 1 CS 2 CS 3 CS 4 CS 5 Painted Steel Girder or Beam 184 LF 0 184 0 0 0 107 2 Routine 10/18/2016 184 LF 184 0 0 0 Routine 10/12/2015 0 Notes: [2012-2015] There is some paint failure and surface corrosion present. [2001-2015] Rivet is missing on east side 1/3 from north end. [2004-2015] Graffiti on inside steel girders on both sides of bridge. Two 60" deep welded steel "Through Girders" serve as railing. [2015] 4" rigid steel utility conduit hanging on west side of bridge. Painted Steel Floorbeam 1050 LF 0 262 787 0 0 2 152 Routine 10/18/2016 0 0 262 787 0 1050 LF Routine 10/12/2015 Notes: [2009-2015] Needs to be repainted. 75% has surface rust with minor to moderate corrosion. Steel diagonal bracing is in place. [1983-2009] Paint is flaking & floor beam has surface corrosion. Spot painted in 1985. **Reinforced Concrete** 75 I F 0 0 N/A 0 75 215 2 Routine 10/18/2016 Abutment 75 LF 0 75 0 0 N/A Routine 10/12/2015 Notes: [2015] 2" spall by name plate on NE corner. [2015] 3" spall on SW corner 6' up from ground. [2013-2015] Minor paint failure on both abutments [2013-2015] 2 - 6" spalls on north abutment, (east side, bottom) [2008-2015] Minor scrapes to north abutment form snow plows. North abutment has numerous minor to moderate spalling, moderate vertical and horizontal cracking w/leaching & efflorescence. [2013-2015] There is a crack located at top of backwall at the NW corner. [2001-2015] South abutment has minor but numerous vertical and horizontal cracking w/leaching & efflorescence. [2012-2015] Also some minor to moderate spalling is present on both abutments. [1983-2015] Hairline cracks @ steel girder base all corners. 4" rigid steel conduit drilled through north and south backwall of each abutment on the west side. Expansion Bearing 2 4 EA 0 4 0 N/A N/A 311 Routine 10/18/2016 Routine 10/12/2015 4 EA 0 4 0 N/A N/A Notes: [2012-2015] Minor to moderate corrosion of rocker bearings at the south end is present. Fixed Bearing 2 EA 0 2 0 N/A N/A 313 2 Routine 10/18/2016 2 2 EA 0 0 N/A N/A Routine 10/12/2015 Notes: [2012-2015] Minor to moderate corrosion of fixed bearings at the north end is present. Support member is sound.

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BRIDGE 62520 CP RAIL OVER CSAH 23(CR C)

ROUTINE INSP. DATE: 10/18/2016

BRID	GE 62520 CH	PRAIL OVER	CSAH	23(UR C)			ROUT		DATE:	10/18/20	0
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
387	Reinforced Conc	rete Wingwall	2	Routine	10/18/2016	4 EA	0	4	0	0	N/A
				Routine	10/12/2015	4 EA	0	4	0	0	N/A
		[2009-2015] Mi coming loose @ [2010-2015] SE grouted rip rap [2008-2015] Th [2009-2015] NE	nor to mo all 4 con WW cor slope pro e SW wir WW cor	or paint failure on all f oderate horizontal & v rners of abutments. Intains moderate spalli otection at SE wing wa ngwall has minor spal ntains numerous mino W has 3 diagonal crac	ertical cracking v ing at the east er all. ling & numerous or vertical and ho	nd of and some minor vertical o rizontal cracks	minor vert cracking. approxima	ical crackir Itely 40+ LF	ng. Also so =.	me movem	
401	Steel Ballast Pla (Railroad Bridge		1	Routine	10/18/2016	1948 SF	0	1948	0	0	0
				Routine	10/12/2015	1948 SF	0	1948	0	0	0
		[2007-2015] Th [2012-2015] Th on the east side	ere is sor ere are tv e.	re is some paint failu me minor leakage. wo ballast hold down ed. Element #401 was	plates hanging b	y chain- one at	the north e			and one at o	centerlir
964	Critical Finding S	Smart Flag	2	Routine	10/18/2016	1 EA	1	0	N/A	N/A	N/A
				Routine	10/12/2015	1 EA	1	0	N/A	N/A	N/A
		Notes: DO NO	T DELET	E THIS CRITICAL FI	NDING SMART	FLAG.					
981	Signing		1	Routine	10/18/2016	1 EA	1	0	0	0	0
				Routine	10/12/2015	1 EA	1	0	0	0	0
		Notes: [2006-2	015] Hor	izontal clearance sigr	ns are in place. H	lorizontal cleara	ance signs	were insta	lled March	2004.	
984	Deck & Approacl	h Drainage	1	Routine	10/18/2016	1 EA	1	0	0	N/A	N/A
				Routine	10/12/2015	1 EA	1	0	0	N/A	N/A
				re is some minor eros / wingwall at the side							
	General Notes:	[2015] Bridge [2014] Bridge [2014] New tr [2013] Bridge [2012] Bridge [2011] Bridge [2010] Bridge [2009] Bridge [2008] Bridge [2006] Bridge [2006-2015]	safety in safety in ack and b safety in safety in	spection was comple spection was comple spection was comple callast was installed spection was comple spection was comple	ted by Dan Bode ted by Dan Bode Asphalt was mille ted by Dan Bode ted by B. Wiema ted by B. Wiema ted by B. Wiema ted by B. Paine & ted by B. Wiema ted by B. Wiema ted by B. Wiema	Ison & Brian Es Ison & Brian Es ed and overlaye Ison & Brian Es n and D. Bodel n and D. Bodel n and D. Bodel n 9/23/2009. & B. Wieman 10 n & B. Essler 8 nan 10/19/2006 walk underneat	asler on 10 asler on 10 ad. asler on 10 son on 11/ son on 11/ son 11/29/ 0/01/2008. (14/2007.	/12/2015. /17/2014. /11/2013. 16/2012. 15/2011. 2010.			
	58. Deck NBI:			23 (County Road C)							
36A. E	Brdg Railings NBI:			- ,							
	B. Transitions NBI:	-	-								
36C. Ar	opr Guardrail NBI:	- No guardrail	-								
	D. Appr Guardrail Terminal NBI:	Ū									
59. Sı	uperstructure NBI:	Steel girders	& floor be	eams have minor to m	noderate corrosic	on.					
					_						

BRIDGE	BRIDGE 62520 CP RAIL OVER CSAH 23(CR C)							ROUTINE INSP. DATE: 10/18/2016						
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			
60. Su	60. Substructure NBI: Concrete abutments have minor cracking & scaling.													
61	I. Channel NBI:	CP Rail over	CSAH # 2	3 (County Road C)										
6	62. Culvert NBI:	CP Rail over	CSAH # 2	3 (County Road C)										
71. Water	way Adeq NBI:	CP Rail over	CSAH # 2	3 (County Road C)										
	Appr Roadway Alignment NBI:	CP Rail over	CSAH # 2	3 (County Road C)										
Ir	nventory Notes:													

Brian Essler

Inspector's Signature

Nicklaus Fischer

Reviewer's Signature

MINNESOTA BRIDGE INSPECTION REPORT

12/02/2016

Inspector: CO Bridge

BRIDGE 62520 CP RAIL OVER CSAH 23(CR C)

County	: Ramsey	Location: 0.5 MI E	OF JCT TH 49		Length:		99.0 ft.				
City:	Little Canada	Route:	Ref. Pt.:		Deck Widt	th:	23.3 ft.				
ownsl	hip:	Control Section:			Rdwy. Are	ea/ Pct. Ur	isnd: sq.ft	/ %			
ectior		W Maint. Area:			Paint Area	a/ Pct. Uns	and: sq. f	/ %			
ipan T	ype: 3 - Steel 3 - Girder and Floorbeam	Local Agency Brid	ge Nbr.:		Culvert:	N/A					
ist:	System				Postings:						
IBI De	eck: N Super: 7 Sub: 6 Cha	an: N Culv: N									
			ted, Closed: A	•							
pprais	sal Ratings - Approach: 8 Waterway		Code: A - NON	WATERWAY	Und	official Stru	cturally De	eficient N			
	ed Bridge Signs - Load Posting: 0 - Not Re		Traffic: 0 - 1	Not Required				bsolete N			
•	Horizntal: 0 - Not Re	-	/ertical: 0 -	Not Required			ficiency Ra				
		-		-			-	-			
ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4			
)	Steel Deck Corrugated/Orthotropic/Etc.	Routine	10/18/2016	2307 SF	2261	0	46	0			
		Migrated Values		2307 SF	2261	0	46	0			
		Notes: [2012-2016] There is some paint failure and surface corrosion present.									
	[2007-2016] There is some minor leakage. [2012-2016] There are two ballast hold down plates hanging by chain- one at the north end on the east side and one at centerline on the east side.										
	Element # 30 was deleted. Element #401 was created in 2007. One set of RR tracks are still active.										
	510 - Wearing Surfaces	Routine	10/18/2016	2307 SF	2307	0	0	0			
		Migrated Values		2307 SF	2307	0	0	0			
	Notes: [2016] Steel deck with ballast.										
)7	Steel Open Girder/Beam	Routine	10/18/2016	184 LF	0	184	0	0			
		Migrated Values		184 LF	0	184	0	0			
	Notes: [2012-2016] There is some paint failure and surface corrosion present. [2001-2016] Rivet is missing on east side 1/3 from north end. [2004-2016] Graffiti on inside steel girders on both sides of bridge. Two 60" deep welded steel "Through Girders" serve as railing. [2015] 4" rigid steel utility conduit hanging on west side of bridge.										
	515 - Steel Protective Coating	Routine	10/18/2016	3864 SF	0	3864	0	0			
		Migrated Values		3864 SF	0	3864	0	0			
	Notes: [2012-2016] There is some pair [2016] 2 92' through girders with a 8' 4				3864 SF						
52	Steel Floor Beam	Routine	10/18/2016	987 LF	247	740	0	0			
		Migrated Values		987 LF	247	740	0	0			
	Notes: [2009-2016] Needs to be repai [1983-2009] Paint is flaking & floor bea				orrosion. Ste	eel diagon	al bracing i	s in place.			
	515 - Steel Protective Coating	Routine	10/18/2016	3812 SF	952	2860	0	0			
		Migrated Values		3812 SF	952	2860	0	0			
	[2016] 45 Beams at 21' with a 14.2" we 2 Beams at 21' with a 20" web and a 1	Notes: [2009-2016] Needs to be repainted. 75% has surface rust with minor to moderate corrosion. Steel diagonal bracing is in place. [2016] 45 Beams at 21' with a 14.2" web and a 5.5" flange. $45 \times 21' \times (2 \times 14.2" + 3 \times 5.5") = 3536$ SF 2 Beams at 21' with a 20" web and a 13" flange. $2 \times 21' \times (2 \times 20" + 3 \times 13") = 276$ SF [1983-2009] Paint is flaking & floor beam has surface corrosion. Spot painted in 1985.									

BRIDGE 62520 CP RAIL OVER CSAH 23(CR C)

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4			
215	Reinforced Concrete Abutment	Routine	10/18/2016	208 LF	0	208	0	0			
		Migrated Values		208 LF	0	208	0	0			
	 [2016] 3" & 8" moderate spall by name plate on NE corner. [2015-2016] 3" spall on SW corner 6' up from ground. [2013-2016] Minor paint failure on both abutments [2013-2016] Z - 6" spalls on north abutment (east side, bottom) [2008-2016] Minor scrapes to north abutment form snow plows. North abutment has numerous minor to moderate spalling, moderate vertica and horizontal cracking w/leaching & efflorescence. [2013-2016] There is a crack located at top of backwall at the NW corner. [2001-2016] South abutment has minor but numerous vertical and horizontal cracking w/leaching & efflorescence. [2012-2016] Also some minor to moderate spalling is present on both abutments. [1983-2016] Hairline cracks @ steel girder base all corners. [2015] 2" spall by name plate on NE corner. 4" rigid steel conduit drilled through north and south backwall of each abutment on the west side. Wingwall notes: [2013-2016] Minor paint failure on all four wingwalls. [2009-2016] Minor to moderate horizontal & vertical cracking with spalling present at all wingwalls. Expansion joint material is coming loose (all 4 corners of abutments. [2010-2016] SE WW contains moderate spalling at the east end of and some minor vertical cracking. Also some movement of grouted rip ray slope protection at SE wing wall. [2008-2016] The SW wingwall has minor spalling & numerous minor vertical cracking. [2008-2016] The SW wingwall has minor spalling & numerous minor vertical cracking. [2008-2016] NE WW contains numerous minor vertical and horizontal cracking. 										
	[2007-2016] The NW WW has 3 diago	nal cracks approx. 26	LF. Also contain	is numerous mi	nor vertica	l cracks.					
311	Movable Bearing	Routine	10/18/2016	4 EA	0	4	0	0			
	5	Migrated Values		4 EA	0	4	0	0			
	Notes: [2012-2016] Minor to moderate corrosion of rocker bearings at the south end is present.										
313	Fixed Bearing	Routine	10/18/2016	2 EA	0	2	0	0			
	-	Migrated Values		2 EA	0	2	0	0			
	Notes: [2012-2016] Minor to moderate	•	arings at the nor	th end is preser	nt. Support	t member is	s sound.				
800	Critical Deficiencies or Safety Hazards	Routine	10/18/2016	1 EA	1	0	0	0			
		Migrated Values		1 EA	1	0	0	0			
	Notes: NO CRITICAL FINDINGS OBS	-	E LAST INSPEC	TION.							
91	Other Bridge Signing	Routine	10/18/2016	1 EA	1	0	0	0			
		Migrated Values		1 EA	1	0	0	0			
	Notes: [2006-2016] Horizontal clearance signs are in place. Horizontal clearance signs were installed March, 2004.										
892	Slopes & Slope Protection	Routine	10/18/2016	1 EA	0	1	0	0			
		Migrated Values		1 EA	0	1	0	0			
	Notes: [2016] There is moderate erosion & minor settlement behind all wingwalls [2006-2015] There is some minor erosion behind all wingwalls.										
394	Deck & Approach Drainage	Routine	10/18/2016	1 EA	1	0	0	0			
		Migrated Values		1 EA	1	0	0	0			
	Notes: [2002-2016] Drain in NW wingwall at the sidewalk edge should be covered.										
900	Protected Species	Routine	10/18/2016	1 EA	1	0	0	0			
		Migrated Values		1 EA	1	0	0	0			
	Notes: [2016] No protected species fo	0	cture.								
	General Notes: [2016] Bridge safety in [2015] Bridge safety in [2014] Bridge safety in [2014] New track and [2013] Bridge safety in [2013] Bridge safety in	spection was comple spection was comple ballast was installed. spection was comple	ted by Dan Bode ted by Dan Bode Asphalt was mille ted by Dan Bode	Ison & Brian Es Ison & Brian Es ed and overlaye Ison & Brian Es	sler on 10 sler on 10 d. sler on 10	/12/2015. /17/2014. /11/2013.					

[2013] Bridge safety inspection was completed by Ball Bodelson & Bran Essel of 10/11/2013.
 [2012] Bridge safety inspection was completed by B. Wieman and D. Bodelson on 11/16/2012.
 [2011] Bridge safety inspection was completed by B. Wieman and D. Bodelson on 11/15/2011.

BRIDGE 62520 CP RAIL OVER CSAH 23(CR C)

ELEM NBR	ELEM	ENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4			
		[2010] Bridge safety insp [2009] Bridge safety insp [2008] Bridge safety insp [2007] Bridge safety insp [2006] Bridge safety insp [2006-2015] There is son The orthotropic steel ball Under roadway overlayed	bection was complet bection was complet bection was complet bection was complet me settlement of the last plate deck is 21	ed by B. Wiema ed by B. Paine & ed by B. Wiema ed by Bret Wiem south side side	n 9/23/2009. & B. Wieman 10/ n & B. Essler 8/ ⁻ nan 10/19/2006. walk underneath	/01/2008. 14/2007.						
5	8. Deck NBI:	CP Rail over CSAH # 23	CP Rail over CSAH # 23 (County Road C)									
36A. Brdg	Railings NBI:	No bridge railing										
36B. Tra	ansitions NBI:	No bridge railing										
36C. Appr G	Guardrail NBI:	No guardrail										
	ppr Guardrail Ferminal NBI:	No guardrail										
59. Supers	structure NBI:	Steel girders & floor beams have minor to moderate corrosion.										
60. Subs	structure NBI:	Concrete abutments have	ve minor cracking &	scaling.								
61.0	Channel NBI:	CP Rail over CSAH # 23	B (County Road C)									
62.	Culvert NBI:	CP Rail over CSAH # 23	B (County Road C)									
71. Waterwa	ay Adeq NBI:	CP Rail over CSAH # 23	B (County Road C)									
AI	72. Appr Roadway CP Rail over CSAH # 23 Alignment NBI:											
Inve	entory Notes:											

Brian Essler

Inspector's Signature

Nicklaus Fischer Reviewer's Signature

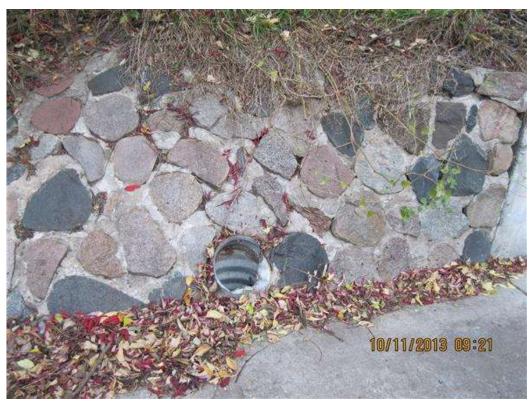


Photo 1 - drain on nw cor



Photo 2 - floorbeams

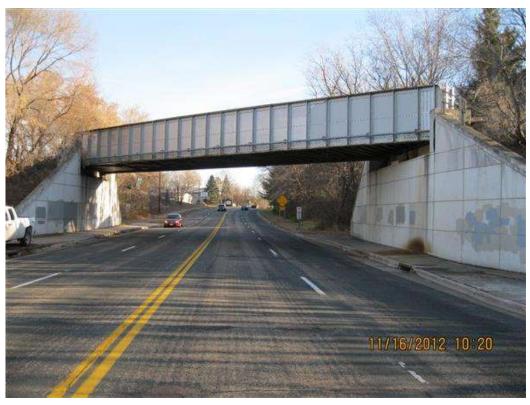


Photo 3 - looking east



Photo 4 - looking north



Photo 5 - looking south

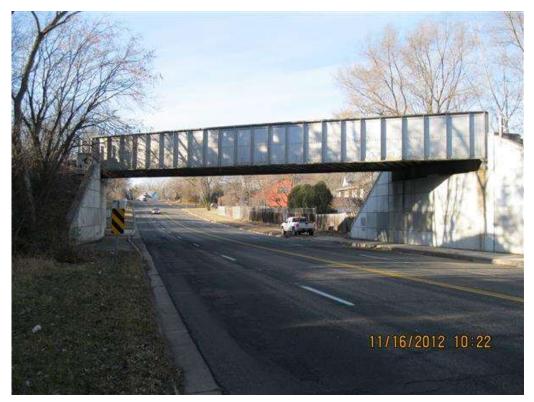


Photo 6 - looking west

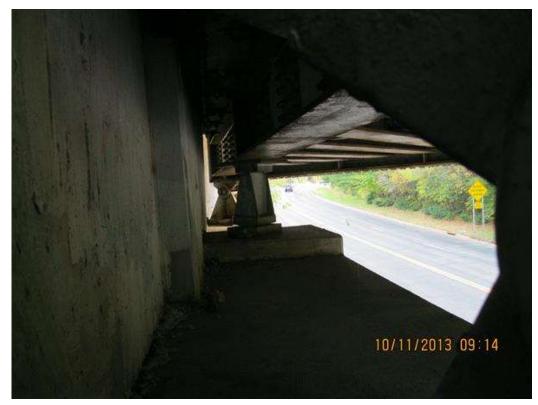


Photo 7 - north bearings



Photo 8 - north bearings-2



Photo 9 - spalls on NE cor