2015 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 90394 BNSF RR over CSAH 31(W MARYLAND AV)

DISTRICT: Metro

COUNTY: Ramsey

CITY/TOWNSHIP: St Paul

Date(s) of Inspection: 05/14/2015 Equipment Used:

Owner: Railroad

Inspected By: Burt, Dick; Ekstrand, Ron; Engel, Michael; Schaaf, Jerry

Report Written By: Ron Ekstrand Report Reviewed By: Glenn Pagel Final Report Date: 12/01/2015

MnDOT Bridge Office 3485 Hadley Avenue North Oakdale, MN 55128



MnDOT Structure Inventory Report

MINDO	i Structure inventory	Report				
Bridge ID: 90394 BNSF RR	OVER CSAH 31(W MAR	YLAND AV) Date: 12/01/2015				
GENERAL	ROADWAY	INSPECTION				
Agency Br. No.	Bridge Match ID (TIS)	Userkey 199				
District Metro	Roadway O/U Key	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 St Paul		Routine Inspection Date05/14/2015				
Township	Level of Service	Routine Inspection Frequency 12				
Desc. Loc. 0.1 MI E OF JCT CSAH 53	Roadway Type	Inspector Name City of St. Paul				
Sect., Twp., Range 24 - 029N - 23W	Control Section (TH Only)	Status A - Open				
Latitude Deg 44 Min 58 Sec 38.82	Reference Point	NBI CONDITION RATINGS				
Longitude Deg 93 Min 7 Sec 23.19	Detour Length mi	Deck 6 - Satisfactory Condition				
Custodian 27 - Railroad	Lanes On Under 4	Unsound Deck %				
Owner 27 - Railroad	ADT Year	Superstructure 7 - Good Condition				
BMU Agreement	HCADT 0 ADTT 0 %	Substructure 6 - Satisfactory Condition				
Year Built 1928	Functional Class	Channel N - Not Applicable				
MN Year Reconstructed	RDWY DIMENSIONS	Culvert N - Not Applicable				
FHWA Year Reconstructed	If Divided NB-EB SB-WB	NBI APPRAISAL RATINGS				
MN Temporary Status	Roadway Width ft. ft.	Structure Evaluation N				
Bridge Plan Location 0 - NO PLAN		Deck Geometry N				
Date Opened to Traffic		Underclearances 2				
On-Off System 0 - OFF		Water Adequacy N - Not Applicable				
Legislative District 66A	Horizontal Clear. ft. ft.	Approach Alignment 5 - Somewhat better than m				
STRUCTURE	Lateral Clearance ft. ft.	SAFETY FEATURES				
Service On 2 - Railroad	Appr. Surface Width ft.	Bridge Railing N - NOT REQUIRED				
Service Under 1 - Highway, w/ or w/out ped.	Bridge Roadway Width ft.	GR Transition N - NOT REQUIRED				
Main Span Type	Median Width On Bridge ft.	Appr. Guardrail N - NOT REQUIRED				
3 - Steel 01 - Beam Span	MISC. BRIDGE DATA	GR Termini N - NOT REQUIRED				
Main Span Detail	Structure Flared 0 - No flare	IN DEPTH INSP.				
Appr. Span Type	Parallel Structure N - No parallel structure	Y/N Freq Date				
1 - Concrete 09 - Slab Span	Field Conn. ID	Frac. Critical				
Appr. Span Detail	Abutment Foundation 1 - CONC	Underwater				
Skew 54 L	(Material/Type) 1 - SPRD SOIL	Pinned Asbly.				
Culvert Type	Pier Foundation 1 - CONC	Spec. Feat.				
Barrel Length ft.	(Material/Type) 1 - SPRD SOIL	WATERWAY				
Cantilever ID	Historic Status 5 - Not eligible	Drainage Area (sq. mi.)				
NUMBER OF SPANS		Waterway Opening sq. ft.				
MAIN: 2 APPR: 2 TOTAL: 4	PAINT	Navigation Control N - Not applicable, no waterw				
Main Span Length 39.0 ft.	Year Painted 1928	Pier Protection				
Structure Length 121.0 ft.	Unsound Paint % 5	Nav. Clr. (ft.) Vert. ft. Horiz. ft.				
Deck Width (Out-to-Out) 31.0 ft.	Painted Area 9700 sq. ft.	Nav. Vert. Lift Bridge Clear. (ft.)				
Deck Material N - Not Applicable	Primer Type 1 - Lead - non 3309	MN Scour Code A - NON WATER' Year				
Wear Surf Type N - Not Applicable (applies onl	Finish Type A - Red Lead	CAPACITY RATINGS				
Wear Surf Install Year	BRIDGE SIGNS	Design Load 8 - RAILROAD				
Wear Course/Fill Depth 0.00 ft.		Operating Rating 2 - AS HS 65.0				
Deck Membrane 0 - None	Posted Load 0 - Not Required	Inventory Rating 2 - AS HS 65.0				
Deck Rebars N - Not Applicable (no deck)	Traffic 0 - Not Required	Posting VEH: SEMI: DBL:				
Deck Rebars Install Year	Horizontal 1 - Object Markers	Rating Date				
Structure Area (Out-to-Out) 3751 sq. ft.	Vertical 0 - Not Required	MnDOT Permit Codes				
Roadway Area (Curb-to-Curb) sq. ft.		A: N - N/A				
Sidewalk Width Lt 0.00 ft. Rt 0.00 ft.		B: N - N/A				
Curb Height Lt 0.00 ft. Rt 0.00 ft.		C: N - N/A				
Rail Type Lt NN Rt NN						

MnDOT BRIDGE INSPECTION REPORT

12/01/2015

Inspector: City of St. Paul

BRIDGE 90394 BNSF RR OVER CSAH 31(W MARYLAND AV)

ROUTINE INSP. DATE: 05/14/2015

City: St Paul Route: Ref. PL: Deck Width: 31.0 ft. Township: Control Section: Rdwy. Area/ Pct. Unsid: sq. ft. / %. Rdwy. Area/ Pct. Unsid: sq. ft. / %. Spin Type: 3 - Stele 102 - Stimger/Multi-beam or Local Agency Bridge Nbr.: Cultvert: NA Appraisal Ratings - Approach: 5 Water. N Culv: N Culvert: NA Appraisal Ratings - Approach: 5 Waterway: N Required Bridge Signs - Local Agency Unofficial Structurally Deficient N Appraisal Ratings - Approach: 5 Waterway: N Required Bridge Signs - Local Agency Unofficial Structurally Deficient N Structure Unit: ELEM ENV Report TYPE INSP. DATE QUANTITY QTY QTY QTY CS 2 QTY CS 2 CS 3 QT CS 5 CS 3 QT CS 5 CS 3 QT CS 5	County	: Ramsey		L	ocation: 0.1 MI	E OF JCT CSAH	53	Length:	1	21.0 ft.					
Section: 24 Township: 029N Range: 23W Maint Area: Paint Area? Pct. Unand: 9700 sq. ft. / 5% Span Type: 3 - Steel (22 - StringerMulti-beam or Local Agency Bridge Nbr.: Culver: N/A Postinge: NR Culver: N/A Appraisal Ratings - Approach: 5 Waterway: N Postinge: Required Bridge Signs - Local Posting: 0 - Not Required Unofficial Structurally Deficient: N Required Bridge Signs - Local Posting: 0 - Not Required Unofficial Structurally Deficient: N Structure Unit: ELEM Traffic: 0 - Not Required Unofficial Structurally Deficient: N 030 Corrugated, Othotropic, or 2 Routine 05/14/2015 1 SF 1 0 0 0 Notes: adde element # 30 Deck other: 2013 Concrete deck is covered with ballast, tes and track. 2013-15 1 0	City:	St Paul	Route: Ref. Pt.:					Deck Width: 31.0 ft.							
Span Type: 3 - Steel 02 - Stringer/Multi-beam or List: Local Agency Bridge Nbr:: Culver: N/A Postings: NBI Deck: 6 Super: 7 Sub: 6 Chan: N Culve: N Open, Posted, Closed: A - Open MN Scour Code: A - NON WATERWAY Unofficial Structurally Deficient N Appraisal Ratings - Approach: 5 Waterway: N Horizntal: 1 - Object Markers Traffic: 0 - Not Required Unofficial Structurally Deficient N Structure Unit: ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY QTY QS1	Township: Control Section:								ea/ Pct. Un	snd: sq.ft	c . / %				
List: Girder Posting: Posting: Posting: Posting: NBI Deck: 6 Super: 7 Sub: 6 Chan: N Culv: N Open, Postind, Closad: A - Open MN Scour Code: A - NON WATERWAY Apraisal Ratings - Aproach: 5 Waterway: N Required Traffic: 0 - Not Required Unofficial Structurally Deficient N Horizntal: 1 - Object Markers Vertical: 0 - Not Required Unofficial Structurally Deficient N Structure Unit: ELEM ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY CS1 CS2 CS3 CS4 CS5 C30 Of Other Deck Routine 05/14/2015 1 SF 1 0 0 0 0 0 O Ofher Deck Routine 05/14/2015 1 SF 1 0 0 0 0 0 O Ofher Deck Routine 05/14/2014 1 SF 1 0 0 0 0 0 O O Ofher Deck Routine 05/14/2014 1 SF 1 0 0 0 0 0 O O O Office Deck Routine 05/14/2014 1 SF 0 1355 0 0 0 O O O Office Deck Is covered with ballast, ties and track. 2013-15 Office	Section: 24 Township: 029N Range: 23W Maint. Area:								Paint Area/ Pct. Unsnd: 9700 sq. ft. / 5%						
NBI Deck: 6 Super: 7 Sub: 6 Char: N Culv: N Open, Posted, Closed: A - Open Appraisal Ratings - Apprach: 5 Waterway: N Mis Scour Code: A - NON WATERWAY Unofficial Structurally Deficient N Required Bridge Signs - Load Posting: 0 - Not Required Traffic: 0 - Not Required Unofficial Structurally Deficient N Mission Code: A - NON WATERWAY Unofficial Structurally Deficient N N Structure Unit: ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY CS1 CS2 CS3 CS4 CS5 030 Corrugated, Onthotropic, or Other Deck 2 Routine 05/14/2015 1 SF 1 0 0 0 0 Motes: added element 30 Deck other. 2013 Concrete deck is covered with ballast, ties and track. 2013-15 0 <t< td=""><td>-</td><td></td><td>- Stringer/Multi-I</td><td>beam or</td><td>Local Agency Bri</td><td>dge Nbr.:</td><td></td><td colspan="6">Culvert: N/A</td></t<>	-		- Stringer/Multi-I	beam or	Local Agency Bri	dge Nbr.:		Culvert: N/A							
Open, Posted, Closed: A - Open MN Scour Code: A - NON WATERWAY Appraisal Ratings - Approach: 5 Waterway: N Horizntal: Traffic: 0 - Not Required Vertical: Unofficial Structurally Deficient Unofficial Structurally Desolvet NR N Structure Unit: ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY GTY CS1 GTY CS2 GTY CS2 GTY CS3 GTY CS2 GTY CS3 GTY CS2 GTY CS3 GTY CTS3 GTY CTS3<	NBI De	ck: 6 Supe	r: 7 Sub: 6	6 Chan:	N Culv: N			0							
MN Scour Code: A - NON WATERWAY Required Bridge Signs - Load Posting: 0 - Not Required Horizntal: 1 - Object Markers Non-Required Vertical: 0 - Not Required 0 - Not Required Wortical Functionally Obsolet Number Name N Structure Unit: ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY QTY QTY </td <td></td> <td></td> <td></td> <td></td> <td>Open, Po</td> <td>sted, Closed: A</td> <td>- Open</td> <td></td> <td></td> <td></td> <td></td> <td></td>					Open, Po	sted, Closed: A	- Open								
Required Bridge Signs - Load Posting: 0 - Not Required Horiznita: 1 - Object Markers Traffic: Vertical: 0 - Not Required 0 - Not Required Unofficial Functionally Obsolet: Nuofficial Sufficiency Rating N Structure Unit: ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY CS1 CS2 CS3 CS4 CS3 030 Corrugated, Orthotropic, or Other Deck 2 Routine 05/14/2014 1 SF 1 0 0 0 0 Notes: added element # 30 Deck other. 2013 Corrugated, 2014/2015 1355 LF 0 1355 0 0 0 107 Painted Steel Girder or Beam 2 Routine 05/14/2015 1355 LF 0 1355 0 0 0 0 0 107 Painted Steel Girder or Beam 2 Routine 05/14/2014 1355 LF 0 1355 0					-		-								
Horizmial: 1 - Object Markers Vertical: 0 - Not Required Unofficial Sufficiency Rating N Structure Unit: ELEM ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY QTY				2											
Structure Unit: ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY QTY QTY <t< td=""><td>Require</td><td>ed Bridge Signs -</td><td>•</td><td></td><td></td><td></td><td>-</td><td>Un</td><td>official Fun</td><td>ctionally O</td><td>bsolete N</td><td>I</td></t<>	Require	ed Bridge Signs -	•				-	Un	official Fun	ctionally O	bsolete N	I			
ELEM ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY QTY QTY CS3 QTY CS4 QS5 030 Corrugated, Orthotropic, or Other Deck 2 Routine 05/14/2015 1 SF 1 0 0 0 0 Requires Monitoring Image: added element # 30 Deck other: 2013 Concrete deck is covered with ballast, ties and track. 2013-15 0 <			Horizntal: 1	I - Object Ma	arkers	Vertical: 0 - 1	Not Required	Un	official Suf	ficiency Ra	iting N	I			
NBR ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY CS 1 CS 2 CS 3 CS 4 CS 5 030 Corrugated, Orthotropic, or Other Deck 2 Routine 05/14/2015 1 SF 1 0 0 0 0 0 Requires Monitoring Monitored Monitored 05/14/2014 1 SF 1 0<	Struct	ure Unit:													
Other Deck Industry Deck Routine 05/14/2014 1 SF 1 0		ELEMEN	T NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY								
Image: contract of the contract	030		hotropic, or	2	Routine	05/14/2015	1 SF	1	0	0	0	0			
Notes: added element # 30 Deck other. 2013 Concrete deck is covered with ballast, ties and track. 2013-15 107 Painted Steel Girder or Beam 2 Routine 05/14/2015 1355 LF 0 1355 0 0 0					Routine	05/14/2014	1 SF	1	0	0	0	0			
Concrete deck is covered with ballast, ties and track. 2013-15 107 Painted Steel Girder or Beam 2 Routine 05/14/2015 1355 LF 0 1355 0 0 0 Requires Monitoring			Requires Monitoring												
Routine 05/14/2014 1355 LF 0 1355 0 0 0 Requires Monitoring Monitored Notes: Only the bottom flange is exposed, the rest is encased in concrete. 97-08. Paint system has moderate deterioration. 2013-15 Surface corrosion is present. 2013-15 18 EA 6 12 0 0 N/A 205 Reinforced Concrete Column 2 Routine 05/14/2015 18 EA 6 12 0 0 N/A Requires Monitoring Monitored Monitored 05/14/2014 18 EA 6 12 0 0 N/A Notes: Severe spalling with exposed rebar on 7 columns, 2012-13 Repaired by the Railroad. 2014 New attenuator install at the CL column support - W.side. 2015 141 LF 0 141 0 0 N/A 215 Reinforced Concrete Abutment 2 Routine 05/14/2015 141 LF 0 141 0 0 N/A															
Image: Second	107	Painted Steel G	irder or Beam	2	Routine	05/14/2015	1355 LF	0	1355	0	0	0			
Notes: Only the bottom flange is exposed, the rest is encased in concrete. 97-08. Paint system has moderate deterioration. 2013-15 205 Reinforced Concrete Column 2 Routine 05/14/2015 18 EA 6 12 0 N/A Requires Monitoring Monitored Notes: Severe spalling with exposed rebar on 7 columns, 2012-13 Repaired by the Railroad. 2014 New attenuator install at the CL column support - W.side. 2015 215 Reinforced Concrete 2 Routine 05/14/2015 141 LF 0 141 0 N/A Routine 05/14/2014 141 LF 0 141 0 N/A					Routine	05/14/2014	1355 LF	0	1355	0	0	0			
Paint system has moderate deterioration. 2013-15 Surface corrosion is present. 2013-15 205 Reinforced Concrete Column 2 Routine 05/14/2015 18 EA 6 12 0 0 N/A Routine 05/14/2014 18 EA 6 12 0 0 N/A Requires Monitoring Image: Columns, 2012-13 Repaired by the Railroad. 2014 New attenuator install at the CL column support - W.side. 2015 Viside. 2015 141 LF 0 141 0 0 N/A 215 Reinforced Concrete Abutment 2 Routine 05/14/2015 141 LF 0 141 0 0 N/A Image: Requires Monitoring Image: Im			Requires	Monitoring)	Monitored	bred								
Routine 05/14/2014 18 EA 6 12 0 0 N/A Requires Monitoring Monitored Notes: Severe spalling with exposed rebar on 7 columns, 2012-13 Repaired by the Railroad. 2014 Viside. 2015 Viside. 2015 Viside. 2015 215 Reinforced Concrete Abutment 2 Routine 05/14/2015 141 LF 0 141 0 0 N/A Requires Monitoring Image: Monitored			Paint system h	as moderate	e deterioration. 201		in concrete. 9	7-08.							
Image: Severe spalling with exposed rebar on 7 columns, 2012-13 Repaired by the Railroad. 2014 New attenuator install at the CL column support - W.side. 2015 215 Reinforced Concrete 2 Routine 05/14/2015 141 LF 0 141 Requires Monitoring Image: Contract of the contract	205	Reinforced Con	crete Column	2	Routine	05/14/2015	18 EA	6	12	0	0	N/A			
Notes: Severe spalling with exposed rebar on 7 columns, 2012-13 Repaired by the Railroad. 2014 New attenuator install at the CL column support - W.side. 2015 215 Reinforced Concrete 2 Routine 05/14/2015 141 LF 0 141 0 0 N/A Routine 05/14/2014 141 LF 0 141 0 0 N/A Requires Monitoring Image: Monitored Image: Monitored Image: Monitored Image: Monitored Image: Monitored					Routine	05/14/2014	18 EA	6	12	0	0	N/A			
Repaired by the Railroad. 2014 New attenuator install at the CL column support - W.side. 2015 215 Reinforced Concrete Abutment 2 Routine 05/14/2015 141 LF 0 141 0 0 N/A Routine 05/14/2014 141 LF 0 141 0 0 N/A Requires Monitoring Image: Concrete Image: Concrete Image: Concrete Image: Concrete N/A Routine 05/14/2014 141 LF 0 141 0 N/A			Requires	Monitoring)										
Abutment Routine 05/14/2014 141 LF 0 141 0 0 N/A			Repaired by th	e Railroad.	2014										
Routine 05/14/2014 141 LF 0 141 0 0 N/A Requires Monitoring Image: Monitored Image:	215							0	141	0	0	N/A			
		Abutment			Routine	05/14/2014	141 LF	0	141	0	0	N/A			
Notes: Repaired by the Railroad. 2014			Requires	Monitoring)	Monitored									
			Notes: Repaired by the Railroad. 2014												

BRIDGE 90394 BNSF RR OVER CSAH 31(W MARYLAND AV)

Struct	ure Unit:										
ELEM NBR	ELEMEN	T NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
234	Reinforced Con	crete Pier Cap	2	Routine Routine	05/14/2015 05/14/2014	157 LF 157 LF	0 0	151 151	6 6	0 0	N/A N/A
		Requires	Monitorir	ng	Monitored	I					
		Notes: 3 LF of 3 LF of spall at		W cap. 2014-15 2013-15							
311	Expansion Bear	ing	2	Routine Routine	05/14/2015 05/14/2014	1 EA 1 EA	1 1	0 0	0 0	N/A N/A	N/A N/A
		Requires	Monitorir	na		I					
		Notes: < none									
313	Fixed Bearing		2	Routine Routine	05/14/2015 05/14/2014	1 EA 1 EA	1 1	0 0	0 0	N/A N/A	N/A N/A
		Requires	Monitorir								
		Notes: < none		ig		•					
333	Masonry, Other Combination Ma		2	Routine	05/14/2015	226 LF	0	226	0	N/A	N/A
				Routine	05/14/2014	226 LF	226	0	0	N/A	N/A
		Requires		-							
				ntenance crews only ng. Moderate rusting							
359	Underside of Co Smart Flag	oncrete Deck	1	Routine	05/14/2015	1 EA	1	0	0	0	0
				Routine	05/14/2014	1 EA	1	0	0	0	0
		Requires	Monitorir	ng	Monitored	I					
		Notes: Underc Dry in 2012.	leck wet at	CL joint. 2011, 201	3, 2014						
362	Traffic Impact S	mart Flag	2	Routine	05/14/2015	1 EA	0	1	0	N/A	N/A
				Routine	05/14/2014	1 EA	0	1	0	N/A	N/A
		Requires	Monitorir	ng	Monitored						
		Notes: added	element #	362 in 2014.							

BRIDGE 90394 BNSF RR OVER CSAH 31(W MARYLAND AV)

Struct	ure Unit:											
ELEM NBR	ELEMEN	ΓΝΑΜΕ	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5	
387	Reinforced Cond	crete Wingwall	2	Routine	05/14/2015	4 EA	0	3	1	0	N/A	
				Routine	05/14/2014	4 EA	0	3	1	0	N/A	
		Requires	Monitori	ing		t						
		Notes: Crackir No changes 20		ng and staining prese	ent. Delams / spa	Ils at South wing	g. 2011-13	5				
964	Critical Finding S	Smart Flag	2	Routine	05/14/2015	1 EA	1	0	N/A	N/A	N/A	
004		g	2	Routine	05/14/2014	1 EA	1	0	N/A	N/A	N/A	
		Requires	Monitori	ina	Monitored	4						
		Notes: Date 20	003-10-09	-			LAG.					
981	Signing		2	Routine	05/14/2015	1 EA	0	1	0	0	0	
				Routine	05/14/2014	1 EA	0	1	0	0	0	
		Requires	Monitor	ing	Monitored	b						
		Notes: Vert. cl	earance s	sign is in place - 13' 9								
		Lights are all steady burn. 2010-15 Please Notified BNSF RR if lights are not working.										
		Michael Anders	son	bridges and structur	(763) 782-3310 cell (612) 749-3401 michael.anderson5@bnsf.com							
		Lane Gilliland		bridge inspector	cell (612) 219-4219							
982	Approach Guard	Irail	2	Routine	05/14/2015	1 EA	1	0	0	N/A	N/A	
				Routine	05/14/2014	1 EA	1	0	0	N/A	N/A	
		Requires	Monitori	ing		t						
		New twist down All guard rail is	ns added on the ro	lewalk side of the gua at the northeast and adway under the bric stall on the W.side of	southwest guard lge . 2014	rail, 00.			mers on Ma	aryland Av	ə. 96.	
985	Slopes & Slope	Protection	1	Routine	05/14/2015	1 EA	1	0	0	N/A	N/A	
				Routine	05/14/2014	1 EA	1	0	0	N/A	N/A	
		Requires	Monitori	ing		b						
		Notes:										
	General Notes:	BNSF contac	t info:									
	General Notes:			kalan tari			0		104			
		Michael Ande	erson	bridges and struct	ures supervisor	(763) 782-331 michael.ander		312) 749-34 sf.com	101			
		Lane Gilliland	ł	bridge inspector			cell (612) 219-4	219			
	58. Deck NBI:	Minor delams	s or spalls	. 2013								

BRIDGE 90394 BNSF RR OVER CSAH 31(W MARYLAND AV)

Structure Unit:										
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
36A. Brdg	g Railings NBI:									
36B. Tr	ransitions NBI:									
36C. Appr Guardrail NBI:										
	Appr Guardrail Terminal NBI:									
59. Super	rstructure NBI:									
60. Sub	ostructure NBI:									
61.	Channel NBI:									
62	2. Culvert NBI:									
71. Waterv	vay Adeq NBI:									
	Appr Roadway Alignment NBI:									
Inv	ventory Notes:									

Ron Ekstrand

Inspector's Signature

Glenn Pagel Reviewer's Signature



1. 6-17-11 CL_joint_Leaks.JPG



6. 6-17-11 concrete S.wing cracks.JPG



11. 6-18-2010 EB_elevation.JPG



16. 033 abut and column repairs by - RR.JPG



2. 6-17-11 concrete cap cracks.JPG



7. 6-17-11 concrete S.wing spalls.JPG



12. 6-18-2010 WB_elevation.JPG



17. 034 abut and column repairs by - RR.JPG



3. 6-17-11 concrete cap spall.JPG



8. 6-17-11 concrete SW.abut cracks.JPG



13. 001 New attenuator install - W.side.JPG



18. 035 abut and column repairs by - RR.JPG

6



4. 6-17-11 concrete NE.abut cracks.JPG



9. 6-17-11 SW.side guard_rail.JPG



14. 002 New attenuator install - W.side.JPG



5. 6-17-11 concrete NW.abut cracks.JPG



10. 6-17-11 SW.side slope.JPG



15. 003 New attenuator install - W.side.JPG