

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

# Inspection Report for B-29-038 ( COLFAX ST. MAUSTON )

STH 58 over IH 90-IH 94 May 11,2017



Туре	Prior	Frequency (mos)	Performed
Routine	05-27-15	24	Х
Interim	03-21-16	0	
SIA Review	05-08-13	48	Х

Latitude 43°48'42.01"N Longitude 90°04'20.60"W Owner STATE HIGHWAY DEPT Maintainer STATE HIGHWAY DEPT

	Time Log		Team membe	ers	
	Hours 2	Minutes 53			
	Name		Number	Signature	Date
Inspector	Olson, Michael A	A	5024	WCD2eI A Olson E-signed by Michael A Olson(ole110174)	05-16-17

# page 2

### **Identification & Location**

Load Rating

Feature On: STH 58	Section Town Range: S01 T15N R03E	Structure Number:
Feature Under: IH 90-IH 94	County: JUNEAU	B-29-038
Location 1.0M N JCT STH 82 TO E	Municipality: MAUSTON	Structure Name: COLFAX ST. MAUSTON

Traffic

# Geometry

measurements in feet, except w	here noted			Lanes	ADT	ADT year	Traffic Pattern
Approach Roadway Width: 30	Bridge Roadway Width: 36.0	Total Length: 297.8	On	2	6700	2016	TWO WAY TRAFFIC
Approach Pavement Width: 22	Deck Width: 38.5	Deck Area (sq ft): 11465	Under	4	35300	2016	TWO WAY TRAFFIC

# Capacity

Inventory rating:	Overburden depth (in):	Last rating date:	Controlling:
HS16	0.0	06-14-08	INTERIOR DECK GIRDER Moment
Operating rating:	Deck surface material:	Re-rate for capacity (Y/N):	Control location:
HS26	CONCRETE		4.7 SPAN 2, 44.9
Posting:	Re-rate notes:		

# Hydraulic

Hydraulic		Classification
Scour Critical Code(113): (N) NO WATERWAY	Q100 (ft3/sec): 0	
High water elevation (ft): 0.0	Velocity (ft/sec): 0.0	Sufficiency #:

# Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	CONT STEEL	DECK GIRDER		52.5	
2	CONT STEEL	DECK GIRDER		95.5	Y
3	CONT STEEL	DECK GIRDER		95.5	
4	CONT STEEL	DECK GIRDER		46.5	

Expansion joi	int(s)		<b>Temperature:</b>	File:	New:71
Joint #	Location	Туре	Last inspection date	Last measure (in)	New measure (in)
2	NORTH ABUTMENT	STRIPSEAL	05-27-15	0.9	1.4

### Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical Under Cardinal	17.1	09-Mar-2017	
Highway Min Vertical Under Non-Cardinal	16.06	09-Mar-2017	
Horizontal Under Cardinal	57.6		
Horizontal Under Non-Cardinal	57.8		
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

# **Special Components**

Component	Year	Work Performed	Note
DECK CRACK SEALER - TK-	2015	MISCELLANEOUS	
9030		PREVENTATIVE	
		MAINTENANCE	
CONC. PROTECTIVE	2015	MISCELLANEOUS	
TREATMENT - TK-590-1 MS		PREVENTATIVE	
		MAINTENANCE	

# page 3

### Structure No.: B-29-038

# **Construction History**

Year	Work Performed	FOS id
2015	MISCELLANEOUS PREVENTATIVE MAINTENANCE	0549-29-61
2013	ADD PIER CRASH WALL	1016-00-72
2008	NEW DECK	1016-08-72
2000	PAINTING	5882-02-70
1999	REPAIR SUBSTRUCTURE	1010-00-60
1985	PAINTING	
1985	OVERLAY - CONCRETE	0029-44-21
1964	NEW STRUCTURE	

# **Maintenance Items History**

Item	Recommended by	Status	Status change	Year completed
Deck - Seal Surface Cracks		COMPLETE		2015
				0045
Deck - Seal w/ Concrete Sealer		COMPLETE		2015
	•	•		

# Elements

							Quantity in Co	ndition State		
Chk	Element	Defect	Description	UOM	Total	1	2	3	4	
х	12		Reinforced Concrete Deck-Coated Reinforcing	SF	11,544	10,349	1,195	0	0	
		1080	Delamination - Spall - Patched Area	SF		0	0	0	0	
		1000	Cracking (RC)	SF		0	1,195	0	0	
		1130	Hairline cracking with efflorescence throughout. Span 1 (south): ~ 60 sf of hairline cracking with Span2: ~530 sf of hairline cracking with lite effl Span 3: ~ 540 sf of hairline cracking with lite efflo Span 4: ~ 65 sf of hairline cracking with lite efflo	lite efflorescen	orescence ice. ince. ice.	-	1,100			
ŀ			Wearing Surface (Bare)	SF	10,721	10,719	2	0	0	
	8000		(15) Visual insp. Hairline cracking throughout.							
ł			Debonding/Spall/Patched Area/Pothole	SF		0	2	0	0	
		3210	Small spall at pier 2 on the west shoulder, and a s	small spa	all in span 2	2 in the sou	ith bound d	riving lane	•	
İ			Crack (Wearing Surface)	SF		0	0	0	0	
		3220								
			Steel Open Girder	LF	1,478	368	1,060	50	0	
Х	107		(11) Bottom flanges over roadway and haunch showing active corrosion.							
			Corrosion	LF		0	1,060	50	0	
		1000	(15) Visual. Corrosion affecting <b>75%</b> of girder lengover roadway.	gth - are	eas of light :	speckle rus	t and active	e corrosion	i - mostly	
İ			Painted Steel	SF	14,375	11,495	0	0	2,880	
	8516		GRAY, RPNTD '00, CLASS A, 13900SF							
			Effectiveness (Steel Protective Coatings)	SF		0	0	0	2,880	

age	;4							Structure No	
х	205		Reinforced Concrete Column Col 1, P1= many cracks @ salt spray area & spall	EA s at gro	12 und line the	4 e spalls ha	6 ve been pa	2 atched and	0 are sour
		1080	Delamination - Spall - Patched Area <b>Pier 1: Col 1: spalls at ground line the spalls h</b> <b>Pier 2: C2 spall with exposed rebar. (CS3= 1)</b> <b>Pier 3:</b> 1 Small spall near top C3 with rust staining Surface repair areas on P2 & P3.		-				0 ar (CS3)
			(realized (PC)	EA		0	2		
		1130	Cracking (RC) Pier 1: Col 1, many cracks @ salt spray area. Pier 2: Pier 3: Hairline cracking C2 east side, and C1 east			0	3	0	0
			Reinforced Concrete Abutment	LF	94	81	13	0	0
Х	215		SCAT. HL CRKS						
			Delamination - Spall - Patched Area	LF		0	4	0	0
		1080	North abutment: 2' of sound patch under G1, 2' o South:	f delam	ination un	der G2,			
		1130	Cracking (RC) North Abutment: hairline crack with efflorescence between G3 and G4 in the back wall. (CS 2= 4') South Abutment: hairline cracks with efflorescence behind G5. (CS2=5')			-			
_			Reinforced Concrete Cap	LF	130	97	29	4	0
x	234		Rebar chair bottoms rusting and popped thru botto crks @ ends and under G's. (13) P3 HLH crks abov drain. P2 - Closed spalls on north face.	om of ca	ap at all pie	rs. P1: hor	iz HL crks	under B1.	P3: HL
			Delamination - Spall - Patched Area	LF		0	8	4	0
		1080	Delamination - Spall - Patched Area P1: Small patched area on east end. Delaminati P2 : Delamination below G5, G4 and between G1 (CS2=3' CS3=4') P3:	on on v	vest end 4 2. Spalls v	. (CS 2=	5')		-
		1080	P1: Small patched area on east end. Delaminati P2 : Delamination below G5, G4 and between G1 (CS2=3' CS3=4') P3: Cracking (RC)	on on v and G	2. Spalls v	C. (CS 2= vith expose	5') sed rebar I	Detween G	1 and 0
		1080 1130	P1: Small patched area on east end. Delaminati P2 : Delamination below G5, G4 and between G1 (CS2=3' CS3=4') P3:	on on v and G	2. Spalls v	C. (CS 2= vith expose	5') sed rebar I	Detween G	1 and 0
			P1: Small patched area on east end. Delaminati P2 : Delamination below G5, G4 and between G1 (CS2=3' CS3=4') P3: Cracking (RC) P3: Narrow map cracking between C3 &C4(11'). C4. P2: Narrow horizontal crack between C3&C4	on on v and G	2. Spalls v	C. (CS 2= vith expose	5') sed rebar I	Detween G	1 and 0
ĸ	300		P1: Small patched area on east end. Delaminati P2 : Delamination below G5, G4 and between G1 (CS2=3' CS3=4') P3: Cracking (RC) P3: Narrow map cracking between C3 &C4(11'). C4.	on on w and G LF A narro	2. Spalls v w horizont	(CS 2= vith expos	5') sed rebar I 21 etween C2	oetween G	1 and 0
×	300		P1: Small patched area on east end. Delaminati P2 : Delamination below G5, G4 and between G1 (CS2=3' CS3=4') P3: Cracking (RC) P3: Narrow map cracking between C3 &C4(11'). C4. P2: Narrow horizontal crack between C3&C4	LF LF LF LF LF	2. Spalls v w horizont 125	(CS 2= vith expos	5') sed rebar I 21 etween C2	oetween G	1 and 0
×	300	1130	P1: Small patched area on east end. Delaminati P2 : Delamination below G5, G4 and between G1 (CS2=3' CS3=4') P3: Cracking (RC) P3: Narrow map cracking between C3 &C4(11'). C4. P2: Narrow horizontal crack between C3&C4 Strip Seal Expansion Joint Leakage, Seal Adhesion, Damage,Cracking North: Multiple hairline cracks most have been South: Multiple hairline cracks most have been Moveable Bearing	LF LF LF LF sealed EA	2. Spalls v w horizont 125 d. 20	C (CS 2= vith exposed al crack b 125	5') sed rebar I 21 etween C2 0 0	0         0         &C3 (4'), a         0         0         0         5	1 and ( 0 nd abov
	300	1130	P1: Small patched area on east end. Delamination         P2: Delamination below G5, G4 and between G1         (CS2=3' CS3=4')         P3:         Cracking (RC)         P3: Narrow map cracking between C3 &C4(11').         C4.         P2: Narrow horizontal crack between C3&C4         Strip Seal Expansion Joint         Leakage, Seal Adhesion, Damage,Cracking         North: Multiple hairline cracks most have been         South: Multiple hairline cracks most have been	LF A narro LF LF LF sealed Sealed EA er" bar: A: B1 -	2. Spalls v w horizont 125 d. 20 s pushed o	C (CS 2= vith expose 0 cal crack b 125 0	5') sed rebar I 21 etween C2 0 0	0         0         &C3 (4'), a         0	1 and C 1 and C 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		1130	P1: Small patched area on east end. Delaminati P2 : Delamination below G5, G4 and between G1 (CS2=3' CS3=4') P3: Cracking (RC) P3: Narrow map cracking between C3 &C4(11'). C4. P2: Narrow horizontal crack between C3&C4 Strip Seal Expansion Joint Leakage, Seal Adhesion, Damage,Cracking North: Multiple hairline cracks most have been South: Multiple hairline cracks most have been South: Multiple hairline cracks most have been Moveable Bearing Includes 2 hold down bearings @ N.A. most "keep movement. (13) Active corrosion on ext bearings. S +1/2" east (photo of B2). NA: girders slid +/-1/4" we Corrosion	LF LF LF LF LF Sealed Sealed EA EA	2. Spalls v w horizont 125 d. s pushed of sole plt cup	0 ial crack b 125 0 breaking oped signif	5') sed rebar I 21 etween C2 0 15 welds from ficantly (ph 15	0         0         &C3 (4'), a         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         5	1 and 0 1 and 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		1130	P1: Small patched area on east end. Delaminati P2 : Delamination below G5, G4 and between G1 (CS2=3' CS3=4') P3: Cracking (RC) P3: Narrow map cracking between C3 &C4(11'). C4. P2: Narrow horizontal crack between C3&C4 Strip Seal Expansion Joint Leakage, Seal Adhesion, Damage,Cracking North: Multiple hairline cracks most have been South: Multiple hairline cracks most have been Moveable Bearing Includes 2 hold down bearings @ N.A. most "keep movement. (13) Active corrosion on ext bearings. S +1/2" east (photo of B2). NA: girders slid +/-1/4" we	LF LF LF LF LF LF EA Sealed EA Sealed EA Started s active	2. Spalls v w horizont 125 d. s pushed of sole plt cup . Bearing 1 corrosion.	0         0         al crack b         125         0          0	5') sed rebar I 21 etween C2 0 0 15 welds from ficantly (ph 15 rrosion. Be	0         0         &C3 (4'), a         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         5	1 and 0 1 and 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		1130 2310 1000	P1: Small patched area on east end. Delaminati P2 : Delamination below G5, G4 and between G1 (CS2=3' CS3=4') P3: Cracking (RC) P3: Narrow map cracking between C3 &C4(11'). C4. P2: Narrow horizontal crack between C3&C4 Strip Seal Expansion Joint Leakage, Seal Adhesion, Damage,Cracking North: Multiple hairline cracks most have been South: Multiple hairline cracks most have been Moveable Bearing Includes 2 hold down bearings @ N.A. most "keep movement. (13) Active corrosion on ext bearings. S +1/2" east (photo of B2). NA: girders slid +/-1/4" we Corrosion North Abutment: Bearings 2-4 CS2 corrosion has corrosion and the keeper is broke off. Pier 1: Corrosion has started on all 5. Pier 3: Corrosion has started on B1-B4, and B5 ha	LF LF LF LF LF LF EA Sealed EA Sealed EA Started s active	2. Spalls v w horizont 125 d. s pushed of sole plt cup . Bearing 1 corrosion.	0         0         al crack b         125         0          0	5') sed rebar I 21 etween C2 0 0 15 welds from ficantly (ph 15 rrosion. Be	0         0         &C3 (4'), a         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         5	1 and 0 0 nd abov 0 0 0 0 0 0 0 0 0 0 0 0 0
		1130 2310	P1: Small patched area on east end. Delamination         P2: Delamination below G5, G4 and between G1         (CS2=3' CS3=4')         P3:         Cracking (RC)         P3: Narrow map cracking between C3 &C4(11').         C4.         P2: Narrow horizontal crack between C3&C4         Strip Seal Expansion Joint         Leakage, Seal Adhesion, Damage,Cracking         North: Multiple hairline cracks most have been         South: Multiple hairline cracks most have been         Moveable Bearing         Includes 2 hold down bearings @ N.A. most "keep         movement. (13) Active corrosion on ext bearings. S         +1/2" east (photo of B2). NA: girders slid +/-1/4" we         Corrosion         North Abutment: Bearings 2-4 CS2 corrosion has corrosion and the keeper is broke off.         Pier 1: Corrosion has started on all 5.         Pier 3: Corrosion has started on B1-B4, and B5 ha         South Abutment: B2-B4 corrosion has started, and	LF LF A narro LF LF LF EA sealed EA Sealed EA Started Started B1 and	2. Spalls v w horizont 125 d. s pushed of sole plt cup . Bearing 1 corrosion.	0         0         al crack b         125         0 <tr< td=""><td>5') sed rebar I 21 etween C2 0 0 15 welds from ficantly (ph 15 rrosion. Be psion.</td><td>0         0         &amp;C3 (4'), a         0</td><td>1 and C 1 and C 0 0 0 0 0 0 0 0 0 0 0 0 0</td></tr<>	5') sed rebar I 21 etween C2 0 0 15 welds from ficantly (ph 15 rrosion. Be psion.	0         0         &C3 (4'), a         0	1 and C 1 and C 0 0 0 0 0 0 0 0 0 0 0 0 0
×		1130 2310 1000	P1: Small patched area on east end. Delamination         P2: Delamination below G5, G4 and between G1         (CS2=3' CS3=4')         P3:         Cracking (RC)         P3: Narrow map cracking between C3 &C4(11').         C4.         P2: Narrow horizontal crack between C3&C4         Strip Seal Expansion Joint         Leakage, Seal Adhesion, Damage,Cracking         North: Multiple hairline cracks most have been         South: Multiple hairline cracks most have been         Moveable Bearing         Includes 2 hold down bearings @ N.A. most "keep         movement. (13) Active corrosion on ext bearings. S         +1/2" east (photo of B2). NA: girders slid +/-1/4" we         Corrosion         North Abutment: Bearings 2-4 CS2 corrosion has corrosion and the keeper is broke off.         Pier 1: Corrosion has started on all 5.         Pier 3: Corrosion has started on B1-B4, and B5 ha         South Abutment: B2-B4 corrosion has started, and	LF LF A narro LF LF LF EA sealed EA Sealed EA Started Started B1 and	2. Spalls v w horizont 125 d. s pushed of sole plt cup . Bearing 1 corrosion.	0         0         al crack b         125         0 <tr< td=""><td>5') sed rebar I 21 etween C2 0 0 15 welds from ficantly (ph 15 rrosion. Be psion.</td><td>0         0         &amp;C3 (4'), a         0</td><td>1 and C 1 and C 0 0 0 0 0 0 0 0 0 0 0 0 0</td></tr<>	5') sed rebar I 21 etween C2 0 0 15 welds from ficantly (ph 15 rrosion. Be psion.	0         0         &C3 (4'), a         0	1 and C 1 and C 0 0 0 0 0 0 0 0 0 0 0 0 0

page	e 5							Structure No.:	B-29-038
			Fixed Bearing	EA	5	0	5	0	0
X	313		PIER 2; REPAINTED 2000.	-			1	1	I
L			Corrosion	EA		0	5	0	0
		1000	Corrosion has started on all 5.		Į	Į	1	4	1
			Reinforced Concrete Bridge Rail	LF	656	574	82	0	0
X	331		HL vert cracks spaced +/-5 ft across bridge.		1	1	1	1	1
			Delamination - Spall - Patched Area	LF		0	2	0	0
		1080	Two minor spalls.						
			Cracking (RC)	LF		0	80	0	0
		1130	Both rails have hl to narrow vertical cracks abo back side.	-					
			Integral Wingwall NW:	EA	4	3	1	0	0
x	8400		NE: SW: SE:						
			Wall Movement	EA		0	0	0	0
		8902							
			Wall Deterioration	EA		0	1	0	0
		8903	South East wing has 1 small spall.					-	
			Jacketing	EA	3	1	2	0	0
X	8801						•		•
			Delamination - Spall - Patched Area	EA		1	2	0	0
		1080	P1C4 delamination near the bottom, and hairline P1C3 hairline to narrow cracking throughout. P1C2 delamination just above the crash wall, and			-	-	ut.	

# Assessments

							Quantity in C	ondition State	
Chk	Element	Defect	Description	UOM	Total	1	2	3	4
			Drainage - Approach	EA	4	4	0	0	0
x	9001		4 Concrete Flumes NW: NE: small spall at the end of the parapet. SE: SW:						
x	9004		Drainage - Drainage Along Structure (Deck Drains)	EA	6	6	0	0	0
	5004	•	6 deck drains.			-			
			Signs - Object Markers	EA	4	4	0	0	0
x	9030		NW: NE: SE: SW:						
			Slope Protection- Concrete	EA	2	2	0	0	0
X	9042		Some vegetation growing in the concrete joints.	•					
			Steel Diaphragm	EA	68	12	43	13	0
x	9167		Span 1: No corrosion on 3 of 4 at the south ab Span 2: No corrosion on 3, but corrosion is st Span 3: No corrosion on 2, but corrosion is s Span 4: No corrosion on 4 at the north abutme	arting or tarting o	n 10 and is n 16 and is	active on s active or	another 7. another 6	5.	g 8.

page 6

	Approach Roadway - Concrete (non-structural)	EA	2	1	1	0	0
9322	South Approach has a small spall at the centerline.						

Structure No.: B-29-038

#### **NBI** Ratings

•	File	New
Deck	7	7
Superstructure	6	6
Substructure	6	6
Culvert	N	N
Channel	N	N
Waterway	N	N

### **Structure Specific Notes**

ALL BEAMGUARD REPLACED & UPGRADED IN 1996. PAINT INDEX = 13900 SF (2000). 205)1999 COL RPR PROJ; CONC ENCPSLTD PIER 1- COLS 2,3,&4; SURF RPRD PIER 1-COL AND PIER 3 COL'S 1&2; L-MOD TIGHT VER & HOR CRKS IN EA ENCPSLTD COL; P1 COLS 2,3&4 OPEN VER CRKS; P2 COLS 1&2 VER CRKS W/SPL IN COL2 107) 2000 PAINT PROJECT: CLASS A W/ 2 YR WAREENTY AS OF 6/ 2000. PAINT SYSTEM USED: SHERWIN WILLIAMS: CORATHANE PRIMER, IRONOX A & B. EPA # USED: WIR 00047688. 359 MOD AREAS OF DISCOLORATION/EFFLOR NEAR PIER 3 OVER G3, APPROX. 10'X20'.

#### **Inspection Specific Notes**

P3 Crash wall at Pier 3, no problems found. P1 Crash wall at Pier 1, 2" of delamination at C2, and a medium crack at C2, and a narrow Crack at C1.

Cost

#### Inspector Site-Specific Safety Considerations

#### **Structure Inspection Procedures**

**Special Requirements** 

Chk

Hours

Comments

Routine Document Comment/Description Elevation view looking east.



Routine Document Comment/Description Typical of bearings with active corrosion.



Routine Document Comment/Description

Typical of the underside of deck and girders in spans one and four.



Routine Document Comment/Description Typical of underside and girders in spans two and three.



Routine Document Comment/Description Cupped sole plate on pairing one N. abutment.



# page 12

Routine Document Comment/Description Spall with exposed rebar in P2C2.



# Routine Document Comment/Description

Spall with exposed rebar in P3C2.



Routine Document Comment/Description Roadway view looking south.



### STRUCTURE INVENTORY AND APPRAISAL FIELD REVIEW FORM

#### B-29-038 STH 58 over IH 90-IH 94

### (3) Municipality: (16) Latitiude(° ' "): (17) Longitude(° ' "):

	LOCATION
MAUSTON	
43°48'42.01"N	
90°04'20.60"W	

#### TRAFFIC SERVICE

2

4
-NO TRAFFIC -ONE WAY TRAFFIC X-TWO WAY TRAFFIC
-NO TRAFFIC -ONE WAY TRAFFIC X-TWO WAY TRAFFIC
5

# GEOMETRY

Left: 0.0	Right: 0.0
Angle(°): 45	Direction: -RIGHT FORWARD X-LEFT FORWARD
Cardinal	Non-Cardinal
36.0	36.0
38.5	38.5
10.8	9.0
9.0	10.8
30	0
Cardinal Under Clearance	Non-Cardinal Under Clearance
57.6	57.8
12.0	11.9
28.4	28.9

### RAILING APPRAISAL

	RAILING APPRAISAL				
TANDAR	D X-STANDARD -NOT APPLICABLE				
STANDAR	D X-STANDARD -NOT APPLICABLE				
STANDAR	D X-STANDARD -NOT APPLICABLE				
STANDAR	D X-STANDARD -NOT APPLICABLE				
Right	Туре				
	TYPE F (TWO SQUARE TUBES) - STEEL(8)				
	TYPE F (3 SQUARE TUBES) - STEEL(65)				
	TYPE F (4 SQUARE TUBES) - STEEL(72)				
	TYPE M-STEEL 3 SQUARE TUBES(93)				
X	SLOPED FACE PARAPET LF(91)				
	SLOPED FACE PARAPET HF(92)				
	VERTICAL FACE PARAPET TYPE A(74)				
	TYPE W-THRIE BEAM(79)				
	TYPE H ON VERTICAL PARAPET(80)				
	TIMBER(38)				
	OTHER(99) (Please specify)				
· ·	7/8") BOLT (Please enter quantity)				
25 MM(1") BOLT (Please enter quantity)					
OTHER	(Please specify)				
(01) ENERGY ABSORBING TERMINAL/EAT					
1 Y Z	RN DOWN				
(99) OTHER (Please specify)					
	TANDAR TANDAR				

#### **ROADWAY ALIGNMENT APPRAISAL**

	3 Intolerable- Substantial speed reduction
	6 Fair- Minor speed reduction
Х	8 Good- No speed reduction

(28A) Lanes On: (28B) Lanes Under:

(102) Traffic Pattern On: (102) Traffic Pattern Under: (19) Detour Length(mi):

(49) Structure Length(ft):
(50) Sidewalk Width(ft):
(50) Curb Width(ft):
(52) Culvert Barrel Length(ft):
(34) Skew:

(51) Bridge Roadway Width(ft):
(52) Deck Width(ft):
Right Wingwall Length(ft):
Left Wingwall Length(ft):
(32) Approach Roadway Width(ft):

(47) Minimum Horizontal(ft):(55) Minimum Right Lateral(ft):(56) Minimum Left Lateral(ft):

### (36A) Bridge Rail Adequacy: (36B) Transition Adequacy: (36C) Approach Guardrail Adequacy: (36D) Guardrail Termination Adequacy: Outer Rail:

**Transition Type:** 

Approach Attachment Rail Note: Guardrail Termination Type:

**Guardrail Termination Note:** 

(72) Approach Alignment Appraisal: