

Inspection Report for B-40-252

N 107TH ST over STH 145-W FOND DU LAC AV Mar 27,2018



Type	Prior	Frequency (mos)	Performed
Routine	04-28-16	24	X
Deck Evaluation		0	Χ
SIA Review	04-28-16	48	
Vertical Clearance Measured		0	X

Start Coordinates	End Coordinates (optional)
Latitude 43°08'38.74"N	Latitude
Longitude 88°02'42.20"W	Longitude
Owner STATE HIGHWAY DEPT	Maintainer STATE HIGHWAY DEPT

Tim	e Log		Team members
Hour	S	Minutes	
3		20	

Name	Number	Signature	Date
Inspector		Julie Brooks	
Brooks, Julie	2017	E-signed by Julie W Brooks(dotj5w)	05-11-18

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Identification & Location

Feature On: N 107TH ST	Section Town Range: S19 T08N R21E	Structure Number:
Feature Under: STH 145-W FOND DU LAC AV	County: MILWAUKEE	B-40-252
Location 0.2M S JCT Good Hope Rd.	Municipality: MILWAUKEE	Structure Name:

Traffic Geometry

measurements in feet, except w	here noted			Lanes	ADT	ADT year	Traffic Pattern
Approach Roadway Width: 44	Bridge Roadway Width: 44.0	Total Length: 249.4	On	3	10900	2013	TWO WAY T
Approach Pavement Width: 44	Deck Width: 51.0	Deck Area (sq ft): 13592	Under	6	20100	2015	TWO WAY T

	1.00						
Approach Pavement Width: 44	Deck Width: 51.0	Deck Area (sq ft): 13592	Under	6	20100	2015	TWO WAY TRAFFIC
44	44.0	249.4	On	3	10900	2013	TWO WAY TRAFFIC

Capacity **Load Rating**

Inventory rating: HS16	Overburden depth (in): 2.0	Last rating date: 08-05-13	Controlling: INTERIOR DECK GIRDER Moment
Operating rating: HS27	Deck surface material: LOW SLUMP CONCRETE	Re-rate for capacity (Y/N):	Control location: 4.8 SPAN 2, 39.4
Posting:	Re-rate notes:		

Hydraulic Classification

	Scour Critical Code(113):	Q100 (ft3/sec):	
	(N) NO WATERWAY	0	
ı	High water elevation (ft):	Velocity (ft/sec):	Sufficiency #:
	0.0	0.0	38.8

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	CONT STEEL	DECK GIRDER		44.5	
2	CONT STEEL	DECK GIRDER		82.0	Y
3	CONT STEEL	DECK GIRDER		82.0	
4	CONT STEEL	DECK GIRDER		36.0	

	Expansion j	oint(s)	Temperature:	File:37	New:43	
	Joint #	Location	Type	Last inspection date	Last measure (in)	New measure (in)
	1	NORTH ABUTMENT	SSA-400L	04-28-16	0.8	0.6
Ī	2	SOUTH ABUTMENT	SSA-400L	04-28-16	0.3	0.6

Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical Under Cardinal	14.46	26-Apr-2012	14.55
Highway Min Vertical Under Non-Cardinal	14.53	26-Apr-2012	14.64
Horizontal Under Cardinal	65.4	-	
Horizontal Under Non-Cardinal	64.9		
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

Special Components

Component	Year	Work Performed	Note
SUPERSTRUCTURE -			
WELDED COVER PLATES			

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Construction History

Year	Work Performed	FOS id
1999	OVERLAY - CONCRETE - NEW JOINTS	2320-02-60
1964	NEW STRUCTURE	

Maintenance Items History

Item	Recommended by	Status	Status change	Year completed
IMP-Concrete Overlay	Sadowski, Jason (9593)	REJECTED	04/20/18	
	, , ,			
Recommend 2019				

Maintenance Items

Item	Priority	Recommended by	Status	Status change
Misc - Other Work				05/14/14
Repair broken conduit hangers for 4 - duct packa Or remove duct package altogether if no longer in		pulder. Consider replacement o	f corroded hangers.	
Misc - Remove/Monitor Loose Concrete	HIGH	Buckett, Chris (9500)	IDENTIFIED	11/14/16
Possible loose delams over SB lanes 2 & 3 and F	 Right Shoulder,	over NB lane 3		
Bearings - Repair / Replace	MEDIUM	Sadowski, Jason (9593)	IDENTIFIED	05/14/14
Extend slots for hold down devices, and replace	sheared bolts.	- L	I	
Clean and paint corroded bearings at S. abutmen	t. Replace keep	per bars as needed.		
If bridge is scheduled for replacement, then no ne	ed for bearing v	vork		
Substructure - Other Work	MEDIUM	Sadowski, Jason (9593)	IDENTIFIED	05/14/14
Concrete surface repair at Center pier	L			
Misc - Cut Brush	MEDIUM	Buckett, Chris (9500)	IDENTIFIED	11/14/16
Cut brush on slopes at corners of bridge and tree	overhanging si	dewalk at NW Wing		
IMP-Structure Replacement	MEDIUM	Brooks, Julie (2017)	IDENTIFIED	04/20/18
2025 Recommended due to condition of deck, gi	rders, possible t	ipping of abutments, broken bol	ts on hold-down bear	ings

Elements

Element						Quantity in Co	ondition State	•
Lieitietit	Defect	Description	UOM	Total	1	2	3	4
		Reinforced Concrete Deck-Black Steel	SF	13,592	6,325	5,380	1,887	0
12		Reinforcing						
'-		Spans are numbered 1-4 N-S						
		Delamination - Spall - Patched Area	SF		0	1,808	1,817	0
		Multiple spalls and delaminated areas in all spans	s. Sever	al spalls wi	ith separate	ed and loos	e concrete	e over
	1080	slopes not affecting any traffic or pedestrians. Out	er soffit/	Fascias s	palling ove	er piers. S	palls ad <u>j</u> a	cent to
		girders, end haunches over diaphragms. Large	full-dep	oth repair p	oatch, bay	5 over SB	lanes. Fe	w delai
		over SB right shoulder, possibly over SB lanes	2&3, pc	ossible del	am over N	B Lane 3 E	3ay 4.	
		Cracking (RC)	SF		0	3.572	70	0
		Span 1: Nar trans & map crkng w/hvy effl - 50 SF	1 .	l amainder -	_	-,-	_	_
		Span 2: Nar trans crkng w/lt affl. incl overhangs - 5	% CS2	emamuer -	ivai tialis t	iking w/it e	III - 30 /6 C	,02
	1130	Span 2: Nar trans crkng w/lt effl, incl overhangs - 5 Span 3: Nar trans crkng w/hvy effl - 20 SF CS3, F	Pamaind	or - Nar tra	ne orkna w	/It offI - 50/	CS2	
1								
		Span 4: Nar trans crkng w/rivy eiii - 20 51 C55, T	\ciriaii iu	ei - ivai iia	iis cikiig w	/IL GIII - 3 /c	002	
		Span 4: Nar trans crkng w/scaling -100% CS2	\ciriaii iu	er - Ivai tia	ns ciking w	/it eiii - 3 /6	002	
		Span 4: Nar trans crkng w/scaling -100% CS2						1 0
		Span 4: Nar trans crkng w/scaling -100% CS2 Concrete Overlay	SF	10,974	0	3,363	7,611	0
8514		Span 4: Nar trans crkng w/scaling -100% CS2						0
8514		Span 4: Nar trans crkng w/scaling -100% CS2						0
8514		Span 4: Nar trans crkng w/scaling -100% CS2						0
8514		Span 4: Nar trans crkng w/scaling -100% CS2 Concrete Overlay	SF		0	3,363	7,611	
8514		Span 4: Nar trans crkng w/scaling -100% CS2 Concrete Overlay Debonding/Spall/Patched Area/Pothole	SF	10,974	0	3,363	7,611	0
8514	3210	Span 4: Nar trans crkng w/scaling -100% CS2 Concrete Overlay Debonding/Spall/Patched Area/Pothole 2004 IR: <2% w/ small spalls, 2009 IR: 0-5% De	SF	10,974	0	3,363	7,611	
8514		Span 4: Nar trans crkng w/scaling -100% CS2 Concrete Overlay Debonding/Spall/Patched Area/Pothole	SF	10,974	0	3,363	7,611	
8514		Span 4: Nar trans crkng w/scaling -100% CS2 Concrete Overlay Debonding/Spall/Patched Area/Pothole 2004 IR: <2% w/ small spalls, 2009 IR: 0-5% Debonding and <2% Spalling	SF	10,974	0	3,363	7,611	
8514	3210	Span 4: Nar trans crkng w/scaling -100% CS2 Concrete Overlay Debonding/Spall/Patched Area/Pothole 2004 IR: <2% w/ small spalls, 2009 IR: 0-5% Debending and <2% Spalling Crack (Wearing Surface)	SF SF SF SF SF	10,974 d <2% Spa	0 II, 2013 IR	3,363 0 Indicated	7,611 1,317 5-10 %	0
8514		Span 4: Nar trans crkng w/scaling -100% CS2 Concrete Overlay Debonding/Spall/Patched Area/Pothole 2004 IR: <2% w/ small spalls, 2009 IR: 0-5% Debelamination and <2% Spalling Crack (Wearing Surface)	SF S	10,974 d <2% Spa	0 II, 2013 IR	3,363 0 Indicated	7,611 1,317 5-10 %	0

407		Steel Open Girder	LF	1,718	0	1,341	377	0
107		Girders numbered 1-7 from East to West; Welded	cover		r piers. Fe		on botto	m of G7
		over SB Lane 3.						
		Corrosion	LF		0	1,341	377	0
		Span 1: Hvy rust @ ends of all girders - 35' CS3; rust on webs and top flanges; Span 4: Heavy rust	Span 2:	Mod-Hvy	rust on bo	ottom flang	ges, Lt-Mo	derate
	1000	Over P1: Hvy rust @ top & bot flanges all girders	st on g	iluers at 3	Abut, Lt-i	viouerate i	ust eisewi	ilere
		Over P2: Hvy rust @ top & bot flanges all girders Over P3: Hvy rust @ N ext gird						
8516	,	Painted Steel	SF	20,555	0	5,040	5,258	10,25
00.10								
		Effectiveness (Steel Protective Coatings) Paint in place is dull and faded, peeling paint in	SF	aroas on	0	5,040	5,258	10,25
	3440	roadways. Ends of girders exhibit moderate loss of	f paint a	ind peeling	thru all co	ats. Paint i	s no longe	ar ar
	3440	effective in areas of rust.		, ,				
205		Reinforced Concrete Column	EA	15	1	0	14	0
205		Piers are numbered N-S, columns numbered W	/-E					
		Delamination - Spall - Patched Area	EA		0	0	14	0
		P1: C1-3 delams at bottom and/or top, C4-5 sp P2: C1 spall with exposed rebar, C3 delam at bo	alls wit	h exposed	rebar	C5 Cracke	d/delamin	ating
	1080	patch	ttom, C	→ ueidili dī	bottom, (oo Gracke	u/ueiaiiina	auny
		P3: Failing patches on C2 & 4, CS3 delams on C	21,3,5					
045		Reinforced Concrete Abutment	LF	137	22	82	33	0
215		Need to monitor abutments for possible tipping	g inwar	a - bearing	s at limit	ot expans	ion	
		Delamination - Spall - Patched Area	LF		0	4	20	0
	1000	S Abut: Lg delams and spalls on sill w/exp rebar	- 2 0' CS	3, patch a	nd small	spall at ea	st end bac	kwall,
	1080	delam in body at G6 N Abut: delams at G5, small spall at CL Joint, s	pall at	G4				
		Cracking (RC)	LF		0	78	13	0
		S Abut: Med crks on sill - 13' CS3, diagonal cracl	with e	fflorescen	ce at wes	t end, vert		_
	1130	N Abut: Nar crks that extend into bkwl -10' CS2, Dia N. bkwl: Nar/medium crack at base for most of le	agonal	crack at NI	E and at C	55,6		
1		IN. DAWI. MAI/INEGIUM CTACK AT DASE IOF MOST OF IE	ngın at	neam seat				
00.1		Reinforced Concrete Cap	LF	190	181	1	8	0
234		Reinforced Concrete Cap Piers are numbered N-S	LF	190	181	1	8	0
234		Piers are numbered N-S Delamination - Spall - Patched Area	LF		0	1 1	8	0
234	1080	Piers are numbered N-S	LF		0	1		
234	1080	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end	LF I; P3: de		0 end	1	3	0
234		Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC)	LF		0	1 1 0		
234	1080	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end	LF I; P3: de		0 end	1	3	0
234		Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk	LF l; P3: de LF	elam at W e	0 and 0	1 0	3	0
234		Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint	LF l; P3: de LF	elam at W e	0 ond 0	0	3	0
		Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree	LF I; P3: do LF LF s. S Jo	elam at W e	0 ond 0	0 144 8"	5	
	1130	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction	LF l; P3: de LF	elam at W e	0 ond 0	0	3	0
		Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree	LF I; P3: do LF LF s. S Jo	elam at W e	0 ond 0	0 144 8"	5	0
	1130	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris	LF I; P3: de LF LF s. S Jo	elam at W e	0 ond 0 ond 1 Joint: 5/3	1 0 0 144 8" 144	5	
	1130	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris Adjacent Deck or Header Damage	LF l; P3: do LF LF s. S Jo	144 int: 5/8", N	0 ond 0 ond 1 Joint: 5/5	1 0 0 144 8" 144 72	5 0	
	1130	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris	LF l; P3: do LF LF s. S Jo	144 int: 5/8", N	0 ond 0 ond 1 Joint: 5/5	1 0 0 144 8" 144 72	5 0	
	1130	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris Adjacent Deck or Header Damage N Abut: Plow abrasion and spalling on deck and	LF I; P3: do	144 int: 5/8", N	0 0 1 Joint: 5/0 0 B lanes, 0	1 0 144 8" 144 144 172 on paving	3 5 0 0 0 block in N	0 0 0 0 B lanes
	1130	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris Adjacent Deck or Header Damage N Abut: Plow abrasion and spalling on deck and Moveable Bearing	LF I; P3: do LF LF s. S Jo LF LF paving	144 int: 5/8", N	0 ond 0 l Joint: 5/3 0 l B lanes, 0	1 0 0 144 8" 144 72	5 0	
300	1130	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris Adjacent Deck or Header Damage N Abut: Plow abrasion and spalling on deck and Moveable Bearing Located at N & S abuts, Piers 1 & 3; hold-down to	LF I; P3: de LF LF S. S Jo LF LF paving EA pearing	144 int: 5/8", N	0 ond 0 l Joint: 5/3 0 l B lanes, 0 ents	1 0 144 8" 144 144 172 on paving 14	3 5 0 0 block in N	0 0 0 0 B lanes
300	1130	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris Adjacent Deck or Header Damage N Abut: Plow abrasion and spalling on deck and Moveable Bearing Located at N & S abuts, Piers 1 & 3; hold-down to Corrosion	LF I; P3: de LF LF s. S Jo LF LF paving EA pearing	144 int: 5/8", N	0 0 1 Joint: 5/3 0 B lanes, 0 ents	1 0 0 144 8" 144 14 14 14 14 14	3 5 0 0 block in N 14 0	0 0 0 B lanes
300	1130 2350 2360	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris Adjacent Deck or Header Damage N Abut: Plow abrasion and spalling on deck and Moveable Bearing Located at N & S abuts, Piers 1 & 3; hold-down to	LF I; P3: de LF LF s. S Jo LF EA paving EA pearing EA pate rus	144 int: 5/8", N	0 0 1 Joint: 5/3 0 B lanes, 0 ents	1 0 0 144 8" 144 14 14 14 14 14	3 5 0 0 block in N 14 0	0 0 0 B lanes
300	1130 2350 2360	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris Adjacent Deck or Header Damage N Abut: Plow abrasion and spalling on deck and Moveable Bearing Located at N & S abuts, Piers 1 & 3; hold-down to the corrosion S Abut: Hvy rust, missing keeper bars; P3: Moder	LF I; P3: de LF LF s. S Jo LF EA paving EA pearing EA pate rus	144 int: 5/8", N	0 0 1 Joint: 5/3 0 B lanes, 0 ents	1 0 0 144 8" 144 14 14 14 14 14	3 5 0 0 block in N 14 0	0 0 0 B lanes
300	1130 2350 2360	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris Adjacent Deck or Header Damage N Abut: Plow abrasion and spalling on deck and Moveable Bearing Located at N & S abuts, Piers 1 & 3; hold-down to the connection S Abut: Hvy rust, missing keeper bars; P3: Moder accounted for under connection and alignment) Connection	LF I; P3: de LF S. S Jo LF EA paving EA pearing EA rate rus	144 int: 5/8", N block in S 28 s at abutm t; P1: Med	0 ond 0 ond 1 Joint: 5/6 0 ond	1 1 0 0 144 8" 144 14	3 5 0 0 block in N 14 0 st (some decomposition)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
300	1130 2350 2360	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris Adjacent Deck or Header Damage N Abut: Plow abrasion and spalling on deck and Moveable Bearing Located at N & S abuts, Piers 1 & 3; hold-down to the connection and alignment) Connection N Abut: Connection bolts sheared off at hold downed to the connection and alignment)	LF I; P3: de LF S. S Jo LF EA paving EA pearing EA rate rus	144 int: 5/8", N block in S 28 s at abutm t; P1: Med	0 ond 0 ond 1 Joint: 5/6 0 ond	1 1 0 0 144 8" 144 14	3 5 0 0 block in N 14 0 st (some decomposition)	0 0 0 0 B lanes
300	1130 2350 2360 1000	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris Adjacent Deck or Header Damage N Abut: Plow abrasion and spalling on deck and Moveable Bearing Located at N & S abuts, Piers 1 & 3; hold-down to the connection S Abut: Hvy rust, missing keeper bars; P3: Moder accounted for under connection and alignment) Connection	LF I; P3: de LF S. S Jo LF EA paving EA pearing EA rate rus	144 int: 5/8", N block in S 28 s at abutm t; P1: Med	0 ond 0 ond 1 Joint: 5/6 0 ond	1 1 0 0 144 8" 144 14	3 5 0 0 block in N 14 0 st (some decomposition)	0 0 0 0 B lanes
300	1130 2350 2360 1000	Piers are numbered N-S Delamination - Spall - Patched Area P2: Large spall with exposed rebar at west end Cracking (RC) P3: Med horiz. crk Strip Seal Expansion Joint Joints measured at East sidewalk at 43 degree Debris Impaction both joints filled with debris Adjacent Deck or Header Damage N Abut: Plow abrasion and spalling on deck and Moveable Bearing Located at N & S abuts, Piers 1 & 3; hold-down to the connection and alignment) Connection N Abut: Connection bolts sheared off at hold downed to the connection and alignment)	LF I; P3: de LF LF s. S Jo LF EA pearing EA ate rus EA This at 6	144 int: 5/8", N block in S 28 s at abutment; P1: Med	0 I Joint: 5/3 0 B lanes, 0 ents 0 rust; N Ab	1 1 0 144 8" 144 14 14 14 14 14 15 Med rus	3 5 0 0 block in N 14 0 st (some deligate slidin	0 0 0 B lanes

			connection)						
			Fixed Bearing	EA	7	0	7	0	0
Х	313		Located at center pier #2						
			Corrosion	EA		0	7	0	0
		1000	P2: Med rust						
			Reinforced Concrete Bridge Rail	LF	566	131	428	7	0
Х	331								
			Delamination - Spall - Patched Area	LF		0	3	7	0
		1080	E Rail: sm-medium spalls @ NE wing, patches a W Rail: Cracked patches near middle pier, spall	at both exp	cp. joints osed reba	ar			
İ			Cracking (RC)	LF		0	425	0	0
		1130	Both rails have HL -narrow vertical and horiz crac	king	,				
			Integral Wingwall	EA	4	2	2	0	0
Х	8400								
			NA U.D. C.			_		_	
			Wall Deterioration	EA		0	2	0	0

Assessments

						Quantity in Co	ondition State)
hk	Element	Defect Description	UOM	Total	1	2	3	4
	9001	Drainage - Ends of Structure Curb matches into deck at all corners, so	EA EA	4	3	slope pavi	0	0
`	9001	Curb matches into deck at all corners, so	onie erosion a	along SW V	wing onto	Slope pavi	ing	
		Sidewalk	EA	2	0	2	0	0
	0000	E Sdwk: Long & trans crks, popouts, and sp				'	,	,
٠	9009	N Sdwk: Long & trans crks, popouts, and spa	alls at curb - Ca	52				
		Utilities	EA	3	0	1	1	1
		Utility1: 6-6" Dia PVC, broken at both abutm	nents and sep	arated ove	er SB lane	S S with hour		CC2
		Utility 2: 4-4" Dia, 4 sets of broken hangers o Utility 3: 6" Dia pipe, 1 missing pipe roller over	ver N. Pier to ' er WB lane 2 -	WB lane 3, CS2	all nanger	S with nvy (corrosion -	CS3
	9011	Utility 4; underdeck lighting attached to co	enter pier	002				
			•					
		Signs - Other	EA	3	2	1	0	0
		E Rail: "107TH STREET SIGN" - CS1						
	9035	W Rail: "107TH STREET SIGN" Impacted & P1: "30 MPH SIGN" - CS1	tilted - CS2					
`	3033	1 1. 30 WI 11 SIGIV - CO1						
		Slope Protection- Concrete	l EA	2	0	2	0	0
		S Abut: Crkng & settling, undermining, sepa	1	_				
	9042	N Abut: Crkng & settling, undermining	.					
٠	3042							
		Steel Diaphragm	EA	96	0	96	0	0
	9167	All Diaphs: Lt-mod rust, slightly heavier at S	Abut -100%			•		
		Approach Roadway - Concrete (non-struc	tural) EA	1	0	0	1	0
	9322	S Appr: Nar-wide crkng some settlement -		+/- 1/2" full	-		· ·	
		Annuard Dandway Applied						
		Approach Roadway - Asphalt Cracking and distress at header, crackin	EA IN NO Inno	7	0	1	0	0
(9323	Gracking and distress at neader, crackin	y iii ivo ianes)				

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		Decorative Rail	EA	2	0	2	0	0
X	9335	E Rail: 1 Bolt missing, Lt-moderate rust @ anc W Rail: Minor impact damage with scrapes and c top rail over NB lanes, missing set bolt at N e	ne bent b		over SB rdv	ay at south	n end of rai	l, bent
		Luminaire Bases	EA	2	1	0	1	0
X	9336	Luminaire Bases EA 2 1 0 1 0 Spall with exposed rebar under luminaire base on west rail						

NBI Ratings

_	File	New
Deck	5	4
Superstructure	5	4
Substructure	5	4
Culvert	N	N
Channel	N	N
Waterway	N	N

Structure Specific Notes

N. bkwl sheared for nearly entire length at beam seat, both abuts may be rotating inward - Monitor

Bridge painted in 1988.

Inspection Specific Notes

Monitor corroded duct hangers for 4-duct package

Inspector Site-Specific Safety Considerations

Structure Inspection Procedures

Top Side: Shoulder area available SB just north of bridge Bottom Side: Shoulder space available NB & SB STH 145

Special Requirements

Hours Cost Comments page 7 Structure No.:B-40-252

Routine Document Comment/Description

Roadway on structure looking North



page 8 Structure No.:B-40-252

Routine

Document Comment/Description

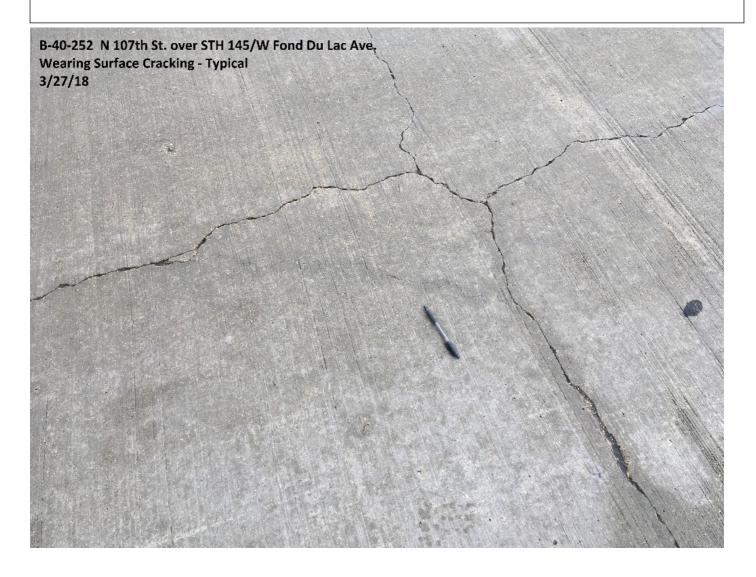
East parapet spall at north expansion joint



page 9 Structure No.:B-40-252

Routine
Document Comment/Description

Deck cracking - typical throughout entire deck

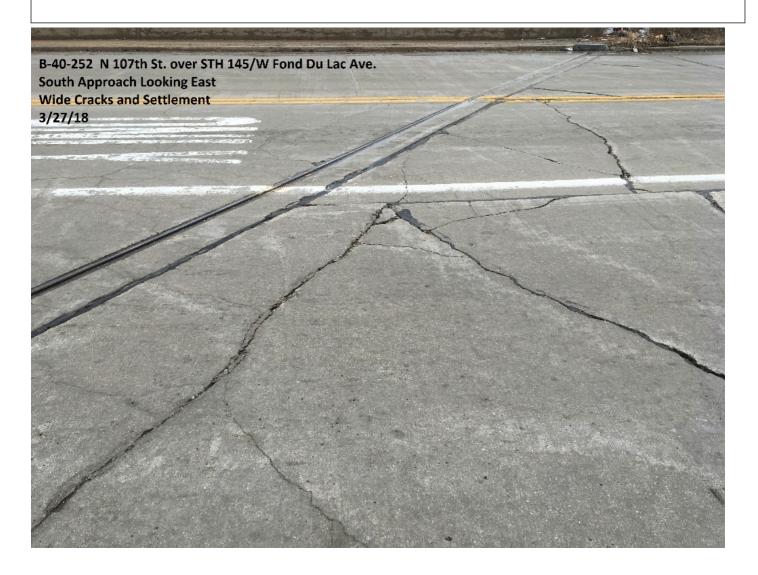


page 10 Structure No.:B-40-252

Routine

Document Comment/Description

South Approach Looking East Wide cracks and settling



page 11 Structure No.:B-40-252

Routine Document Comment/Description

West Sidewalk - spalling along top inside



page 12 Structure No.:B-40-252

Routine Document Comment/Description

Northwest Wing - tree overhanging sidewalk



page 13 Structure No.:B-40-252

Routine Document Comment/Description

North Expansion Joint Looking East - Abrasion on deck and paving block



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Routine
Document Comment/Description

West tubular rail - bent outward



page 15 Structure No.:B-40-252

Routine Document Comment/Description

South Abutment - Spall with exposed rebar at beam seat



page 16 Structure No.:B-40-252

Routine Document Comment/Description

Girder/Bearing #2 at South Abutment - at limit of expansion at 43 degrees

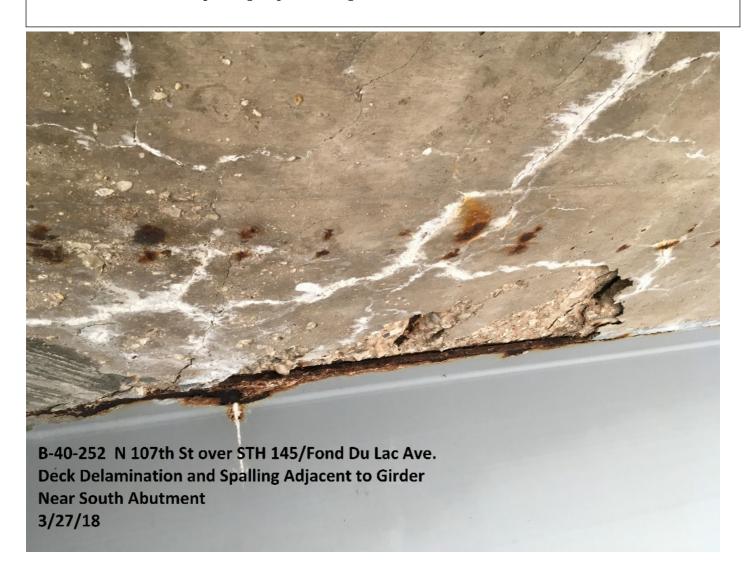


page 17 Structure No.:B-40-252

Routine

Document Comment/Description

Deck delamination and spalling adjacent to girder near South abutment



page 18 Structure No.:B-40-252

Routine Document Comment/Description

Broken utility conduit at South abutment

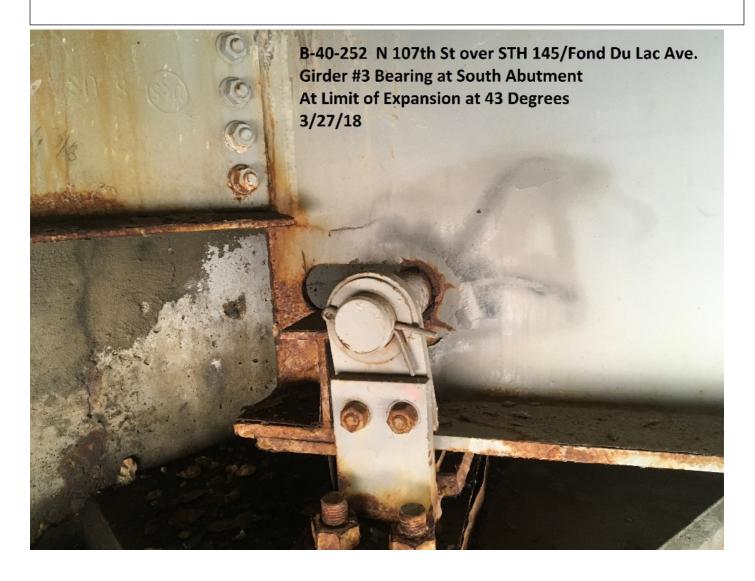


page 19 Structure No.:B-40-252

Routine

Document Comment/Description

Girder/Bearing #3 at South Abutment at limit of expansion



page 20 Structure No.:B-40-252

Routine

Document Comment/Description

Girder/Bearing #7 at South Abutment - Corrosion, at limit of expansion, bronze plate slipping out



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Routine

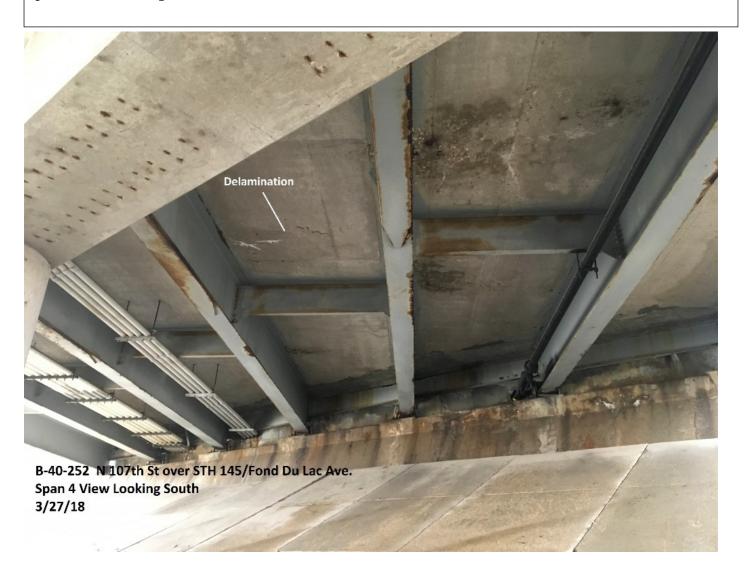
Document Comment/Description

Pier 3 cap at West end - Medium horizontal crack



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Routine Document Comment/Description Span 4 View Looking South



page 23 Structure No.:B-40-252

Routine Document Comment/Description

Span 3 Looking North, spalling with exposed rebar



page 24 Structure No.:B-40-252

Routine

Document Comment/Description

Deck spalling with exposed rebar in outer soffit and haunch above girder at pier 2

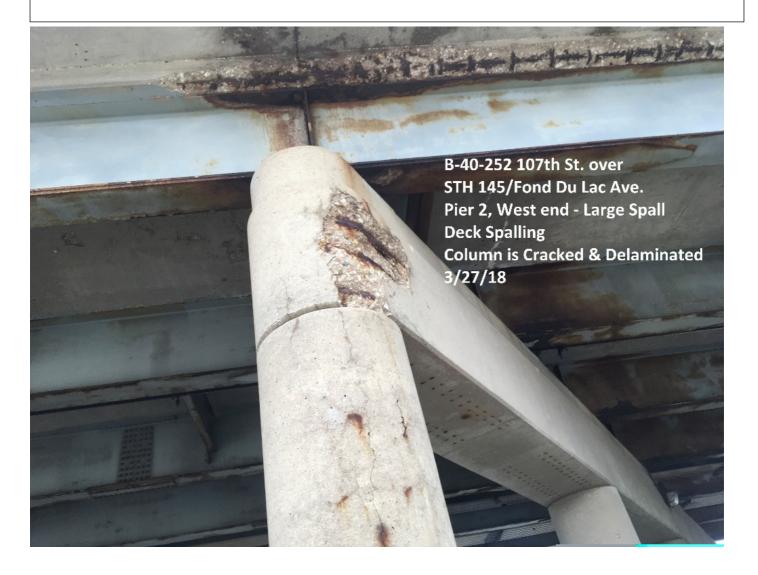


page 25 Structure No.:B-40-252

Routine

Document Comment/Description

Pier 2 Cap at West end - Large spall with exposed rebar

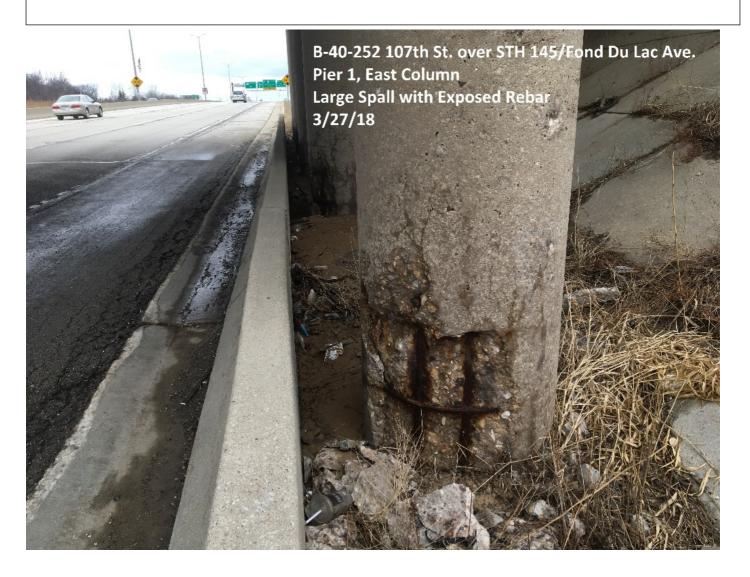


page 26 Structure No.:B-40-252

Routine

Document Comment/Description

Pier 1, East Column - Large Spall with exposed rebar

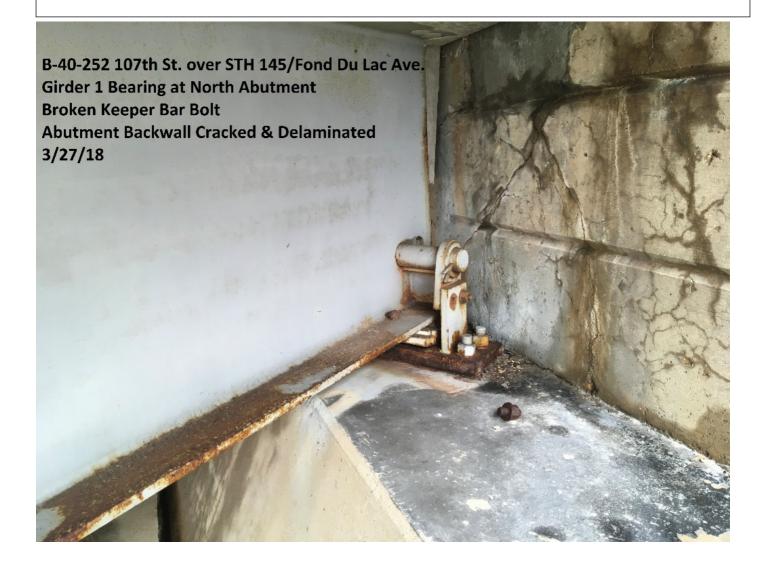


page 27 Structure No.:B-40-252

Routine

Document Comment/Description

Girder/Bearing #1 at North Abutment - Broken keeper bar bolt, abument backwall is delaminated and cracked



page 28 Structure No.:B-40-252

Routine Document Comment/Description

South Abutment Backwall near Girder #4 - Medium Cracks



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Routine Document Comment/Description

Deck Delaminations near North Abutment



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Vertical Clearance Verification Document Comment/Description

Non-Cardinal Vertical Clearance Verification



page 31 Structure No.:B-40-252

Vertical Clearance Verification Document Comment/Description

Cardinal Vertical Clearance Verification



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Non-Image Documents

Туре	Document	Document Comment/Description	Attached
Deck	b40-252_18_Kd1.pdf	2013 IR Deck Scan Results	X
Evaluation			