



**STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION**

**Inspection Report for
B-16-038-0002**

**USH 2 over LAND
Oct 19,2015**



Type	Prior	Frequency (mos)	Performed
Routine	10-19-15	24	X
Interim	09-27-05	0	
SI&A	08-19-13	48	

Latitude 46°44'33.66"N
Longitude 92°09'14.64"W

Owner STATE HIGHWAY DEPT
Maintainer STATE HIGHWAY DEPT

Time Log

Team members

Hours	Minutes	
1	0	

	Name	Number	Signature	Date
Inspector	Bjorklund, Allan M	8003	Completed by HSI System Account(HSI)	
Reviewer				

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

page 2

Identification & Location

Feature On: USH 2	Section Town Range: S08 T49N R14W	Structure Number: B-16-038-0002
Feature Under: LAND	County: DOUGLAS(16)	
Location 1.1M W MINN STATE LINE	Municipality: CITY-SUPERIOR(16281)	Structure Name:

Geometry

measurements in feet, except where noted

Approach Roadway Width: 54	Bridge Roadway Width: 66.0	Total Length: 144.0
Approach Pavement Width: 0	Deck Width: 76.0	Deck Area (sq ft): 10944

Traffic

	Lanes	ADT	ADT year	Traffic Pattern
On	4	17500	2010	TWO WAY TRAFFIC
Under	0	0		NO TRAFFIC

Capacity

Load Rating

Inventory rating: HS21	Overburden depth (in): 1.5	Last rating date:	Controlling:
Operating rating: HS38	Deck surface material: CONCRETE	Re-rate for capacity (Y/N): Y	Control location:
Posting:	Re-rate notes: Concrete Overlay completed 2015 under project 8680-04-71		

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 #: 92.6

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	CONT CONCRETE	HAUNCHED SLAB		40.0	
2	CONT CONCRETE	HAUNCHED SLAB		48.0	Y
3	CONT CONCRETE	HAUNCHED SLAB		30.0	
4	CONT CONCRETE	HAUNCHED SLAB		26.0	

Expansion joint(s)

Temperature:

File:	New:
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Vertical Clearance

	Measurement file (ft)	File Date	Measurement new (ft)
Highway Minimum Under Cardinal			
Highway Minimum Under Non-Cardinal			
Highway Minimum On	17.22	19-Oct-2015	17.22
Railroad Minimum Under			

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

page 3

Structure No.: **B-16-038-0002**

Elements

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	38		Reinforced Concrete Slab	SF	10,944	10,932	0	12	0
			ride has sag/bump over piers. Chloride content (LB/CY) is high enough to warrant a NBI 4. Border Bridge agreement to place Deck at NBI 5. Testing report in files NWR/Superior. Cracks in side of deck 6 ft east of P3a. Cracks SW corner of deck edge at P3. horizontal cracking on south side of deck over access doors pier 3a in 2011. Six LF spall w/ rebar exposed south side near access door on bottom drip edge, heavy rust on exposed rebar 2013. Deck overlay complete in 2015.						
		1080	Delamination - Spall - Patched Area	SF		0	0	12	0
			Six LF spall w/ rebar exposed south side near access door on bottom drip edge, heavy rust on exposed rebar 2013						
		8514	Concrete Overlay	SF	10,287	0	10,287	0	0
			PCC overlay completed 2015.						
		3220	Crack (Wearing Surface)	SF		0	10,287	0	0
			Random map cracking through out.						
X	202		Coated Reinforcing	SF	10,944	0	0	0	0
			ride has sag/bump over piers. Chloride content (LB/CY) is high enough to warrant a NBI 4. Border Bridge agreement to place Deck at NBI 5. Testing report in files NWR/Superior. Cracks in side of deck 6 ft east of P3a. Cracks SW corner of deck edge at P3. horizontal cracking on south side of deck over access doors pier 3a in 2011. Six LF spall w/ rebar exposed south side near access door on bottom drip edge, heavy rust on exposed rebar 2013.						
			Steel Column	EA	27	0	27	0	0
			Rust forming. Extensive rust on pilings and 24 inch deep settlement around piles piers 3A,3B, 3C (2013) deep settlement continues 2014 monitor.						
		1000	Corrosion	EA		0	27	0	0
			Piles have no paint on them from start.						
		4000	Settlement	EA		0	10	0	0
			24 inch deep settlement around piles piers 3A,3B, 3C deepest settlement on north piles pier 3A, As-built shows abandoned 16" gas main in that area, monitor.						
		8516	Painted Steel	SF	855	0	855	0	0
			Rust forming. Extensive rust on pilings and 24 inch deep settlement around piles piers 3A,3B, 3C (2013) Piles have no paint on them from start. seem to be Core 10 steel.						
		3440	Effectiveness (Steel Protective Coatings)	SF		0	855	0	0
X	210		Reinforced Concrete Pier Wall	LF	75	72	3	0	0
		1130	Cracking (RC)	LF		0	3	0	0
			SW corner cracked vertical						
X	234		Reinforced Concrete Cap	LF	229	229	0	0	0
X	300		Strip Seal Expansion Joint	LF	75	75	0	0	0
			New WB 2014 and EB 2015.						
		2310	Leakage, Seal Adhesion, Damage, Cracking	LF		0	0	0	0

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

page 4

Structure No.: **B-16-038-0002**

X	330		Metal Bridge Rail	LF	285	285	0	0	0
X	331		Reinforced Concrete Bridge Rail	LF	288	285	0	3	0
			Leaking south side between panels over spill area in drip edge						
		1080	Delamination - Spall - Patched Area	LF		0	0	3	0
			Leaking south side between panels over spill area in drip edge						
		1130	Cracking (RC)	LF		0	0	0	0

Assessments

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	9007		Median	EA	144	144	0	0	0
			Curb repair done under overlay project.						

NBI Ratings

	File	New
Deck	5	7
Superstructure	7	7
Substructure	7	7
Culvert	N	N
Channel	N	N
Waterway	N	N

Structure Specific Notes

West bound USH 2 minimum vertical distance over measured after overlay in place 17.51 feet at north fog line at east fascia girder Ramp "B" (IH 35 SB to USH 2 EB) 2014 djh.

Inspection Specific Notes

Repair/replace expansion strip seal over Pier #4. Delam survey. (03) Inspected by Minnesota DOT copy of inspection report on in District 8 office. (04) Traffic ADT from MNDOT. (06) Access secure when we arrived, inspected under and resecured door. (07) Access secure, inspected and resecured door.
Inspection done 8/17 thru 8/30/2007.
Inspected by MNDOT 2008 file in bridge office Superior NWR. entered for date by DJH.
Inspected by DJH etal between 8-24-2009 and 9-4-2009. Tunnel dug under wall NW corner, We filled it in, access secured when we left.
Inspected 2010 by Mndot, Gary Elmquist et al. Signed copy of inspection in bridge file Superior office. Entered for date only by D. harrington.
Inspected by DJH etal between 8-22-2011 and 8-31-2011. New Wisdot lock needed on door old one broken 2011 replaced.
Inspected by DJH etal between 8/15/12 and 8/30/12.
Inspected by DJH etal between 8/12/13 and 8/29/13. Conc. overlay project let date January 2014.
Inspected by DJH etal between 8/19/14 and 8/28/14. Project 8680-04-71 in progress, complete in 2015.

Inspector Site-Specific Safety Considerations

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Structure Inspection Procedures

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Special Requirements

	Chk	Comments
Traffic Control		
ReachAll Vehicle		
Access Equipment		
Other		

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

page 5

Structure No.: **B-16-038-0002**

Construction History

Year	Work Performed	FOS id
9999	NOT BUILT	8680-04-00
1984	NEW SUPERSTRUCTURE	8680-01-85
1983	NEW STRUCTURE	8680-01-81

Maintenance Items History

Item	Recommended by	Status	Status change	Year completed
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Maintenance Items

Item	Priority	Recommended by	Status	Status change
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Routine

Document Comment/Description

Settlement around pile pier 3A



Routine

Document Comment/Description

pier 3C dry under bridge



Routine
Document Comment/Description

Name Plate



Routine
Document Comment/Description
North Wall Enclosure



Routine

Document Comment/Description

Undermine of wall at NW corner, also NE similar.



Routine
Document Comment/Description

Typical under.



Routine
Document Comment/Description

Access doors under.

