



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Inspection Report for B-38-015

USH 8-USH 141 over CRAIN LANE
Oct 02,2018



Type	Prior	Frequency (mos)	Performed
Routine	10-04-16	24	X
Deck Evaluation	09-26-16	48	
SIA Review	10-04-16	48	

Start Coordinates		End Coordinates (optional)	
Latitude	45°38'53.36"N	Latitude	
Longitude	87°57'53.31"W	Longitude	
Owner	STATE HIGHWAY DEPT	Maintainer	STATE HIGHWAY DEPT

Time Log

Team members

Hours	Minutes	
1	0	Dale Weber

Inspector	Name	Number	Signature	Signature Date
	McDowell, Jim W	3008	E-signed by Jim McDowell(dotj6m)	10-03-18

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Identification & Location

Feature On: USH 8-USH 141	Section Town Range: S26 T37N R20E	Structure Number: B-38-015
Feature Under: CRAIN LANE	County: MARINETTE	
Location 1.7M E JCT CTH OO	Municipality: PEMBINE	Structure Name:

Geometry

measurements in feet, except where noted

Approach Roadway Width: 44	Bridge Roadway Width: 44.0	Total Length: 276.7
Approach Pavement Width: 24	Deck Width: 47.0	Deck Area (sq ft): 13004

Traffic

	Lanes	ADT	ADT year	Traffic Pattern
On	2	4100	2018	TWO WAY TRAFFIC
Under	3	200	2018	TWO WAY TRAFFIC

Capacity

Load Rating

Inventory rating: HS17	Overburden depth (in): 2.0	Last rating date: 08-14-13	Controlling: INTERIOR DECK GIRDER Positive Moment
Operating rating: HS37	Deck surface material: INTEGRAL CONCRETE	Re-rate for capacity (Y/N):	Control location: SPAN 1
Posting:	Re-rate notes:		

Hydraulic

Classification

Scour Critical Code(113): (8) STABLE-ABOVE TOP FOOTING	Q100 (ft3/sec): 1450	
High water elevation (ft): 0.0	Velocity (ft/sec): 0.0	Sufficiency #: 64.7

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	CONT PREST CONC	DECK GIRDER	45	68.3	
2	CONT PREST CONC	DECK GIRDER	45	69.0	Y
3	CONT PREST CONC	DECK GIRDER	45	69.0	
4	CONT PREST CONC	DECK GIRDER	45	67.5	

Expansion joint(s)

Temperature:

File:	New:
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Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical Under Cardinal	16.18	05-Jun-2017	
Highway Min Vertical Under Non-Cardinal			
Horizontal Under Cardinal	35.5		
Horizontal Under Non-Cardinal			
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			
Railroad Min Vertical Under			

Special Components

Component	Year	Work Performed	Note
DECK - IOWA MIX	2002	OVERLAY - CONCRETE	

Construction History

Year	Work Performed	FOS id
2002	OVERLAY - CONCRETE	1590-12-71
1994	REPAIR JOINTS	
1993	REPAIR DECK	
1993	REPAIR JOINTS	
1990	REPAIR DECK	
1988	BEARING - MISC. WORK	
1985	OVERLAY - CONCRETE	0038-44-12
1982	PAINT BEARING	
1970	NEW STRUCTURE	1491-01-70

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Maintenance Items History

Item	Recommended by	Status	Status change	Year completed
Expansion Joints - Seal	McDowell, Jim W (3008)	COMPLETE	03/03/16	2016
Clean and seal joints with hot rubber				
Expansion Joints - Seal	Weber, Dale (3007)	COMPLETE	09/28/17	2017
Seal S strip seal w/rubber				

Maintenance Items

Item	Priority	Recommended by	Status	Status change
Misc - Other Work	MEDIUM	Weber, Dale (3007)	IDENTIFIED	10/04/16
Knock off loose parapet concrete over road & R/R				
IMP-Deck Replacement		Lahm, Jason G (3011)	APPROVED	01/26/18
1491-21-71 LET 3/2021				

Elements

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	12		Reinforced Concrete Deck	SF	13,005	10,470	2,525	10	0
		1080	Delamination - Spall - Patched Area CS-3(S1-10 SF) Large spall at SW corner	SF		0	0	10	0
		1130	Cracking (RC) CS-2(S1-750 SF, S2-625 SF, S3-550 SF, S4-600 SF) Diag, trans, & long. cracking w/eff. Moisture staining under entire length of girder#3 extend 2' on each side of top flange.	SF		0	2,525	0	0
		8514	Concrete Overlay	SF	12,175	2,500	9,575	100	0
X	109		Prestressed Concrete Open Girder	LF	1,364	1,348	6	10	0
		1080	Delamination - Spall - Patched Area CS-3(S1-6') Ends of G1 - G5 spalling at S abutment	LF		0	0	10	0
		1110	Cracking (PSC) CS-2(S1-6') Horz. cracking in ends of G1 & G4 at S abutment	LF		0	6	0	0
X	205		Reinforced Concrete Column	EA	9	9	0	0	0
X	215		Reinforced Concrete Abutment	LF	94	64	18	12	0
		1080	Delamination - Spall - Patched Area CS-3(S Abut 9' & N Abut 3') Large spalls	LF		0	0	12	0
		1130	Cracking (RC) CS-2(S Abut 10' & N Abut 8') Vert cracking	LF		0	18	0	0

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X	234		Reinforced Concrete Cap	LF	130	130	0	0	0
X	300		Strip Seal Expansion Joint South Abutment	LF	45	0	45	0	0
		2310	Leakage, Seal Adhesion, Damage, Cracking CS-2(45') Filled with rubber and leaking	LF		0	45	0	0
X	310		Elastomeric Bearing Sole plates corroding	EA	5	0	5	0	0
		2230	Bulging, Splitting or Tearing All are starting to delaminate	EA		0	5	0	0
X	331		Reinforced Concrete Bridge Rail	LF	593	0	393	200	0
		1080	Delamination - Spall - Patched Area CS-2(W Side 125' & E Side 150') Delaminations CS-3(W Side 100' & E Side 100') Large spalls	LF		0	275	200	0
		1130	Cracking (RC) CS-2(W Side 75' & E Side 100') Vert. & horz. cracking	LF		0	118	0	0
X	8400		Integral Wingwall	EA	4	4	0	0	0

Assessments

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	9001		Drainage - Ends of Structure Flumes at NW & NE quadrants	EA	4	4	0	0	0
X	9043		Slope Protection- Crushed Aggregate with Bit. Minor settling & loss of binder	EA	2	0	2	0	0
X	9168		Concrete Diaphragm Misc spalling	EA	24	21	0	3	0
X	9322		Approach Roadway - Concrete (non-structural)	EA	2	2	0	0	0
X	9335		Decorative Rail W Side has post damage	EA	2	1	1	0	0

NBI Ratings

	File	New
Deck	6	6
Superstructure	5	5
Substructure	5	5
Culvert	N	N
Channel	8	8
Waterway	9	9

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Structure Specific Notes

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Inspection Specific Notes

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Inspector Site-Specific Safety Considerations

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Structure Inspection Procedures

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Special Requirements

Chk	Hours	Cost	Comments
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**Underwater Probe Form
B-38-015**

General Site Conditions - Scour

No scour (10/2/18)

General Site Conditions - Embankment Erosion/Conditions

Good

Substructure Notes

Chk	Unit	Max Water Depth(ft)	Mode	Notes
X	Cardinal	0.0	Dry	
X	Pier 1	0.0	Dry	
X	Pier 2	0.0	Dry	
X	Pier 3	0.0	Dry	
X	Non Cardinal	0.0	Dry	

Routine

Document Comment/Description

CS-3 Spalling at W corner of S abut & SW underdeck (10/4/16)



Routine

Document Comment/Description

CS-3 Spalling at E corner of N abut (10/4/16)



Routine

Document Comment/Description

CS-3 Spalling at E corner of S abut (10/4/16)



Routine

Document Comment/Description

CS-3 Spalling in G2 at S abut (10/4/16)



Routine

Document Comment/Description

CS-3 Spalling in G3 at S abut (10/4/16)



Routine

Document Comment/Description

CS-3 Spalling in G5 at S abut (10/4/16)



Routine

Document Comment/Description

CS-3 Spalling at W corner of N abut (10/4/16)



Routine

Document Comment/Description

CS-3 Spalling in parapet (Typ) (10/4/16)



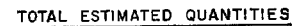
Routine

Document Comment/Description

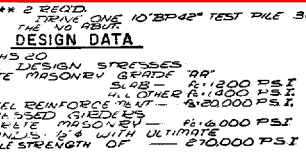
CS-3 Deck cracking over piers
Same 10/4/16 DSW



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Concrete surface repair at abutments



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE MAKING, CRUSHED AGGREGATE TO THE EXTENT SHOWN ON THIS SHEET AND IN THE REBUILT DETAILS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE STROKED AND SMOOTHED.

EXISTING GROUNDLINE WAS USED AS THE UPPER LIMIT OF EXCAVATION FOR THE COMPUTATION OF EXCAVATIONS QUANTITIES AT PIER 12F3.

THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES FOR THE ABUTMENTS SHALL BE AT THE BOTTOM OF THE SLOPE PROTECTION OF THE EMBANKMENT. THE QUANTITIES WERE COMPUTED FROM THESE LIMITS. EXCAVATION OCCURRED WHERE OCCUPIED BY THE STRUCTURE SHALL BE BACKFILLED WITH GRAVEL. MATERIAL ACTUALLY PLACED WITHIN THE LIMITS FOR EXCAVATION FOR STRUCTURES SHALL BE REPAVED WITH PDES 3, ALL EXCAVATED VOLUME NOT OCCUPIED BY STRUCTURE SHALL BE BACKFILLED WITH GRAVEL. FILL PLACEMENT WILL BE MADE ONLY FOR MATERIAL PLACED WITHIN THE LIMITS OF EXCAVATION FOR STRUCTURES.

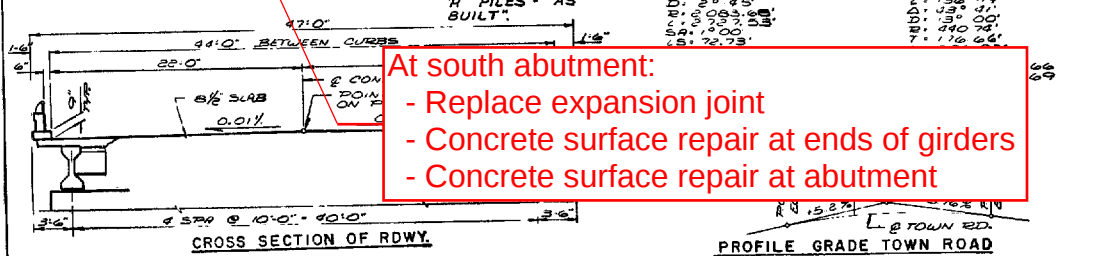
STRUCTURES SHALL CONFORM TO REQUIREMENTS OF DASHO DESIGNATION M153 OR M151.

At south abutment:

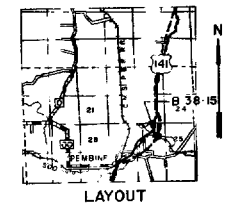
- Replace expansion joint
- Concrete surface repair at ends of girders
- Concrete surface repair at abutment

LIST OF DRAWINGS

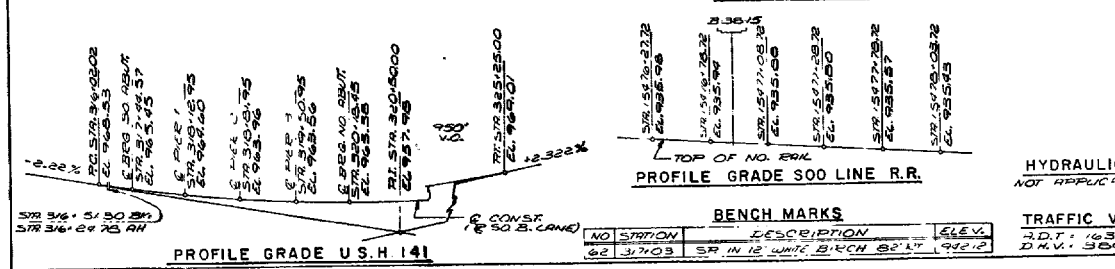
2. GENERAL PLAN - x161630
3. SUBSURFACE EXPLORATION - x161631
4. SOUTH ABUTMENT - x161632
5. NORTH ABUTMENT - x161633
6. PIER 3 - x161634
7. PIER 3 DETAILS - x161635
8. SUPERSTRUCTURE - x161636
9. WATERWAY - x161637
10. STRESS TESTED GIRDERS - x161639
11. EXPANSION JOINT #
12. BEARING DETAILS - x161640
13. ROAD SURFACED DETAILS - x161641
14. DETAILS FOR TYPE G TUBULAR ALUMINUM & STEEL RAILING - x161642



AS BUILT PLAN
DATE 1-'74 BY W.J.K.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
STRUCTURE B-38-15			
USH 141 OVER TOWN ROAD			
County MARINETTE		Loc. TN OF PEMBINE	
Design Size: AA SNO 1865		Grade Size: 186B	
Designed By: J.A.	Checked: REA	Drawn By: F.L.C.	Plans Checked: R.P.
Approved: <u>W.A. Rine</u>		2-10-70	
Chief Engineer		Date	
GENERAL PLAN		SHEET 1 OF 13	
		X41630	



HYDRAULIC DATA
NOT APPLICABLE

TRAFFIC VOLUME
A.D.T. : 1630 (1964)
D.H.V. : 380 (1988)

LAYOUT

SHEET 1 OF 13

X41630