



Inspection Report for

**P-67-781**

**Village Hall Dr over Underwood Creek**

Oct 8, 2025



Type	Prior Date	Prior Team Leader	Frequency (mos)	Performed
Routine	10-04-24	Roesch, Matthew (9725)	12	X
Structural review				X
SIA review	10-04-24	Roesch, Matthew (9725)	48	
SNBI	10-04-24	Roesch, Matthew (9725)	0	X

Latitude	43°02'49.18" N	Owner	VILLAGE
Longitude	88°04'52.00" W	Maintainer	VILLAGE

Team members

Time Log	Hours	Minutes	Simonelli, Maggie: Team Member Roesch, Matthew: Team Leader
	1	0	
Weather	Temperature (f)	Condition	
	47	Sunny	

Inspector	Name	Number	Signature	Signature Date
	Roesch, Matthew	9725	<i>Matthew Roesch</i> E-signed by Matthew Roesch(mroesch)	01-22-26

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**Identification & Location**

Feature On: Village Hall Dr	Section Town Range: S24 T07N R20E	Structure Number: <b>P-67-781</b>
Feature Under: Underwood Creek	County: WAUKESHA	
Location 300' W of Legion Dr	Municipality: ELM GROVE	Structure Name:

**Geometry**

measurements in feet, except where noted

Approach Roadway Width: 22	Bridge Roadway Width: 22.0	Total Length: 31.5
Approach Pavement Width: 21	Deck Width: 28.0	Deck Area (sq ft): 882

**Traffic**

Lanes	ADT	ADT year	Traffic Pattern
On 2	135	2015	two way traffic

**Capacity**

**Load Rating**

Inventory rating: HS13	Overburden depth (in): 3.0	Last rating date: 09-29-23	Controlling: INTERIOR GIRDER Positive Moment
Operating rating: HS23	Deck surface material: Bituminous		Control location: 0.5 SPAN 1
Posting:	Emergency Vehicle Weight Limit (tons):		
Re-rate for capacity (Y/N):	Re-rate notes:		

**Hydraulic**

**Classification**

Scour Critical Code(113): Stable- above top footing (8)	Q100 (ft3/sec): 0	
High water elevation (ft): 0.0	Velocity (ft/sec): 0.0	Sufficiency #: 48.8

**Field Measured Rail(s)**

Rail	Location	Type	Measurement (in)
Primary Rail	left outer	Masonry - block or stone	44.0
Primary Rail	right outer	Masonry - block or stone	44.0

**Span(s)**

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	PREST CONCRETE	Girder/Beam - Channel Adjacent		27.5	Y

**Expansion joint(s)**

<b>Temperature:</b>	File:55	New:47
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**Clearance**

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway min vertical on cardinal			
Horizontal on cardinal			

**Construction History**

Year	Work Performed	FOS id
1971	New Structure	

**Maintenance Items History**

Item	Recommended by	Status	Status change	Year completed
<b>Approach - Wedge Approach</b>	Furlan, Jordan (9604)	COMPLETE	11/02/20	2020
Comment: Rewedge approaches	Status Comment:			

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**Maintenance Items**

Item	Priority	Recommended by	Status	Status change
<b>IMP-Polymer Modified Overlay</b>	Medium	Roesch, Matthew (9725)	DEFERRED	10/28/24
<p>Comment: Replace asphalt overlay to prevent further seepage through to superstructure.</p> <p>Status Comment:</p>				
<b>Approach - Seal Approach to Paving Block</b>	Medium	Roesch, Matthew (9725)	DEFERRED	10/28/24
<p>Comment: Seal approach joints to prevent abutment water seepage.</p> <p>Status Comment:</p>				
<b>Misc - Follow Up</b>	High	Roesch, Matthew (9725)	IDENTIFIED	01/22/26
<p>Comment: Formalize emergency vehicle access for Elm Grove Park and post as necessary.</p> <p>Status Comment:</p>				
<b>Slope Protection - Other Work</b>	Medium	Roesch, Matthew (9725)	IDENTIFIED	01/22/26
<p>Comment: Repair masonry portions of wingwall.</p> <p>Status Comment:</p>				
<b>Superstructure - Patch Girders / Super</b>	Medium	Roesch, Matthew (9725)	IDENTIFIED	01/22/26
<p>Comment: Remove delaminations and repair spalls with concrete patching.</p> <p>Status Comment:</p>				
<b>Misc - Other Work</b>	Medium	Roesch, Matthew (9725)	IDENTIFIED	01/22/26
<p>Comment: Install object markers (4 EA)</p> <p>Status Comment:</p>				
<b>Misc - Other Work</b>	Medium	Roesch, Matthew (9725)	IDENTIFIED	01/22/26
<p>Comment: Replace Structure</p> <p>Status Comment:</p>				

<b>Misc - Other Work</b>	Low	Roesch, Matthew (9725)	IDENTIFIED	01/22/26
Comment: Repoint masonry and prevent masonry bridge rail movement.		Status Comment:		

## Elements

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	15		<b>Prestressed Concrete Top Flange</b> <b>There was heavy efflorescence and water seepage evident between fascia girder and adjacent girders.</b>	SF	882	879	2	1	0
		1080	Delamination - Spall - Patched Area	SF		0	2	1	0
			6" W by 6" H spall with exposed corroded reinforcement with approximately 20% loss of section <b>in the concrete top flange</b> at the south deck drain. <b>(1 SF CS3)</b> <b>There was water staining, exudation, and delamination between Girders 1 and 2 and Girders 7 and 8. (2 LF CS2)</b>						
		8209	Sidewalk	SF	126	81	5	40	0
		3210	Delamination/Spall/Patched Area/Pothole	SF		0	5	6	0
			The sidewalk exhibited random spalling 2' W by 1' L by 2" D at midspan with exposed corroded reinforcement, random surface popouts.						
		3220	Crack (Wearing Surface)	SF		0	0	34	0
			Random <b>wide</b> transverse cracking. <b>(34 SF CS3)</b>						
		8511	HMA (AC) Overlay	SF	693	618	20	55	0
3220	Crack (Wearing Surface)	SF		0	20	55	0		
	<b>Some moderate to wide</b> longitudinal and transverse cracking. <b>(20 SF CS2, 55 SF CS3)</b>								
X	109		<b>Prestressed Concrete Open Girder</b> Girders are numbered N to S.	LF	247	124	49	57	17
		1080	Delamination - Spall - Patched Area	LF		0	34	39	17
			The girder <b>ends</b> exhibited rust staining, delamination, and <b>6" L</b> by up to 1" D spalls <b>at abutments. (18 LF CS3)</b> <b>Random areas of</b> exposed reinforcement <b>on all girders on up to 5% of the surface area. (13 LF CS3)</b> <b>Girder 1: Patched spall. (2 LF CS2)</b> <b>Girder 2: 20.0' L by 7" H by 3" D spall with multiple exposed reinforcements</b> with up to <b>50%</b> loss of section <b>in the north end. (8 LF CS3, 12 LF CS4); 3.0' L delamination with rust staining in the south end. (3 LF CS2, 1 LF Overlap)</b> <b>Girder 6: 15.0' L delamination</b> in the south web. <b>(15 LF CS2)</b> <b>Girder 7: 15.0' L delamination</b> in the bottom of the south web. <b>(15 LF CS2)</b> <b>Girder 9: 5.0' L by 5" H by 3" D spalls</b> with exposed corroded strands with up to 20% loss of section. <b>(5 LF CS4)</b>						
1110	Cracking (PSC)	LF		0	15	18	0		
	<b>Girder 2 exhibited wide cracking in the north end. (5 LF CS3, Overlap)</b> <b>Girder 4 exhibited a 3.0' L area of cracking with rust staining at midspan. (3 LF CS3)</b> <b>Girder 8 exhibited a 15.0' L moderate crack in the bottom</b> of the south web. <b>(15 LF CS2)</b> <b>Girder 8 exhibited cracking with efflorescence and stalagmite in the north web on the east half. (15 LF CS3)</b> <b>Girder 9 exhibited a moderate vertical crack at midspan. (1 LF CS2, Overlap)</b>								
X	215		<b>Reinforced Concrete Abutment</b> <b>Water seepage evident from backwall above. Heavy efflorescence on face at beam joints.</b>	LF	87	62	23	2	0
		1080	Delamination - Spall - Patched Area	LF		0	8	2	0
			West ends exhibited spalling/delamination below girder ends. <b>(8 LF CS2)</b> 10" diameter by 6" D spall at southwest drain at south end of west abutment. <b>(1 LF CS3)</b> The west abutment exhibited a 6" W by 6" H by 1" D spall under girder 6. <b>(1 LF CS3)</b>						
		1130	Cracking (RC)	LF		15	0	0	0
	Random insignificant map cracking at the abutment/wingwall interface. <b>(15 LF CS1)</b>								
1190	Abrasion-Wear (PSC-RC)	LF		0	15	0	0		
The abutment faces exhibited light surface scaling with 1/4" maximum penetration. <b>(15 LF CS2)</b>									

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X	334	Masonry Bridge Rail	LF	64	13	1	50	0	
		Delamination - Spall - Patched Area	LF		0	0	0	0	
		<b>50% of the north curb length exhibited rust staining and delamination. (16 LF CS3, overlapping)</b>							
	1080	Mortar Breakdown (Masonry)	LF		0	0	50	0	
		<b>The masonry ledge angles on the exterior faces of the bridge exhibited heavy corrosion with up to 10% loss of section. (6 LF CS3)</b>							
		<b>12.0' L area of the south angle was missing. (12 LF CS3)</b>							
	1610	<b>12.0' of bricks were missing, mostly at the sidewalk interface. (12 LF CS3)</b>							
		<b>The mortar exhibited random cracking with moderate to heavy deterioration with loose masonry. (10 LF CS3)</b>							
		<b>10.0' of deterioration in the top cap, with loose caps. (10 LF CS3)</b>							
	1640	Masonry or Panel Displacement	LF		0	1	0	0	
		<b>The south parapet was 2" out of plumb to the north. (1 LF CS2)</b>							
			EA	4	0	3	1	0	
X	8400	Integral Wingwall	EA	4	0	3	1	0	
		Wall Deterioration	EA		0	3	1	0	
		<b>The wingwalls exhibited random insignificant map cracking with efflorescence at the abutment/wingwall interface. (4 EA CS2)</b>							
	8903	<b>The northwest wingwall exhibited a 6" diameter by 8" D spall below drain. (1 EA CS3)</b>							

**Assessments**

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	9001		<b>Drainage - Ends of Structure</b>	EA	4	4	0	0	0
X	9041		<b>Slope Protection- Bare</b> The embankment exhibited erosion behind all 4 wingwalls, causing the masonry portion of the north wingwalls to deteriorate and fail.	EA	4	0	2	2	0
X	9042		<b>Slope Protection- Concrete</b> Concrete lined channel under bridge has moderate deterioration and the slope has settled. Portions may be missing.	EA	1	0	0	1	0
X	9323		<b>Approach Roadway - Asphalt</b> The west approach exhibited transverse cracking. New wedges noted in 2016.	EA	2	1	1	0	0

**Condition Ratings**

	File	New
Deck condition rating (C.01)	Satisfactory (6)	Satisfactory (6)
Superstructure condition rating (C.02)	Poor (4)	Poor (4)
Substructure condition rating (C.03)	Satisfactory (6)	Satisfactory (6)
Culvert condition rating (C.04)	N/A (Nbi) (N)	N/A (Nbi) (N)
Bridge railings condition rating (C.05)	Fair (5)	Fair (5)
Bridge railing transitions condition rating (C.06)	N/A (N)	N/A (N)
Bridge bearings condition rating (C.07)	N/A (N)	N/A (N)
Bridge joints condition rating (C.08)	N/A (N)	N/A (N)
Channel condition rating (C.09)	Very Good (8)	Very Good (8)
Channel protection condition rating (C.10)	Satisfactory (6)	Satisfactory (6)
Scour condition rating (C.11)	None (9)	None (9)
Underwater inspection condition (C.15)		
Channel	Minor Damage (7)	Minor Damage (7)
Waterway	Equal Minimum (6)	Equal Minimum (6)
Approach	Good- No speed reduction (8)	

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**Structure Specific Notes**

Beams are numbered 1-9, north to south.

**Animal nesting/roosting presence on structure**

**Inspection Specific Notes**

Waterline was 10.0' below the top of the south railing.  
The channel was centered between the abutments and had a max depth of 8" at mid span.  
The channel bottom was composed of sand, gravel and up to 6 in. dia. cobbles on top of a concrete lined channel.

**Inspector Site-Specific Safety Considerations**

**Routine Specific Procedures**

**Special Requirements**

	Chk	Hours	Cost	Comments
Other Access Equipment	X			Waders

**Underwater Probe Form  
P-67-781**

**General Site Conditions - Scour**

No scour present

**General Site Conditions - Embankment Erosion/Conditions**

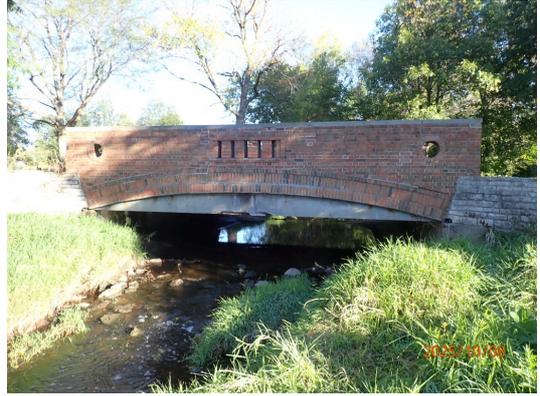
Some erosion behind all 4 wingwalls.

**Substructure Notes**

Chk	Unit	Max Water Depth(ft)	Mode	Channel Material	Notes
X	Cardinal		Dry	Concrete Lined	
X	Non Cardinal		Dry	Concrete Lined	

**Routine Item 1**

View of south fascia, looking north.



p67-781\_25\_Rd1.jpg

**Routine Item 2**

View of north fascia, looking south.



p67-781\_25\_Rd2.jpg

**Routine Item 3**

View of west approach, looking east.



p67-781\_25\_Rd3.jpg

**Routine Item 4**

View of east approach, looking west.



p67-781\_25\_Rd4.jpg

**Routine Item 5**

View of upstream channel, looking north.



p67-781\_25\_Rd5.jpg

**Routine Item 6**

View of downstream channel, looking south.



p67-781\_25\_Rd6.jpg

**Routine Item 7**

View of west abutment, looking west.



p67-781\_25\_Rd7.jpg

**Routine Item 8**

View of east abutment/deteriorated concrete lining, looking east.



p67-781\_25\_Rd8.jpg

Linked Element(s):  
Slope protection- concrete

**Routine Item 9**

View of typical underdeck, looking south.



p67-781\_25\_Rd9.jpg

**Routine Item 10**

View of spall near south deck drain, looking east.



p67-781\_25\_Rd10.jpg

Linked Element(s):

Prestressed concrete top flange

**Routine Item 11**

View of spall in south sidewalk, looking north.



p67-781\_25\_Rd11.jpg

Linked Element(s):

Prestressed concrete top flange -> Sidewalk

**Routine Item 12**

View of spalling and delamination in the east end of the north curb, looking north.



p67-781\_25\_Rd12.jpg

Linked Element(s):

Masonry bridge rail  
Prestressed concrete top flange -> Sidewalk

**Routine Item 13**

View of wide cracking in overlay, looking east.



p67-781\_25\_Rd13.jpg

Linked Element(s):

Prestressed concrete top flange -> Hma (ac) overlay

**Routine Item 14**

View of typical girder end deterioration, looking west.



p67-781\_25\_Rd18.jpg

Linked Element(s):

Prestressed concrete open girder

**Routine Item 15**

View of spall in Girder 2, looking west.



p67-781\_25\_Rd16.jpg

Linked Element(s):

Prestressed concrete open girder

**Routine Item 16**

View of delamination in Girder 7, looking east.



p67-781\_25\_Rd14.jpg

Linked Element(s):

Prestressed concrete open girder

**Routine Item 17**

View of spall in Girder 9, looking north.



p67-781\_25\_Rd15.jpg

Linked Element(s):

Prestressed concrete open girder

**Routine Item 18**

View of spall in west abutment under Girder 6, looking west.



p67-781\_25\_Rd17.jpg

Linked Element(s):

Reinforced concrete abutment

**Routine Item 19**

View of typical masonry deterioration, looking south.



p67-781\_25\_Rd19.jpg

Linked Element(s):  
Masonry bridge rail

**Routine Item 20**

View of out of plumb south rail, looking west.



p67-781\_25\_Rd20.jpg

Linked Element(s):  
Masonry bridge rail

**Routine Item 21**

View of spall in northwest wingwall, looking west.



p67-781\_25\_Rd21.jpg

Linked Element(s):  
Integral wingwall

**Routine Item 22**

View of typical erosion behind wingwalls, looking south.



[p67-781\\_25\\_Rd22.jpg](#)

Linked Element(s):  
Slope protection- bare

## Specifications for National Bridge Inventory (SNBI) Data items

P-67-781

### Span Material and Type (B.SP)

Span 1 <small>(main)</small>	Number Beam Lines: 9	Wearing surface: Bituminous (asphalt) (B01)
	Span Material: Prestressed concrete - pre-tensioned (C03)	Deck Protective system: None (0)
	Span Protective System: None (0)	Deck reinforcing protective system: None (0)
	Deck Material and Type: Reinforced concrete - cast-in-place (C01)	Deck Stay In Place Forms: None (0)

### Substructure Material and Type (B.SB)

Non Cardinal Abutment	Substructure material: Reinforced concrete - cast-in-place (C01)	Foundation protective system: None (0)
	Substructure protective system: None (0)	
Cardinal Abutment	Substructure material: Reinforced concrete - cast-in-place (C01)	Foundation protective system: None (0)
	Substructure protective system: None (0)	

### Geometry (B.G)

NBIS bridge length: 27.0	Curved bridge: Not curved (N)	Maximum bridge height: 4
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### Inspection Requirements (B.IR)

NSTM Inspection Required: No (N)	E or E' fatigue Details:
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### Appraisal (B.AP)

Approach roadway alignment: Good (G)	Overtopping likelihood: Very low - once every 51 to 99 years (2)
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## Action

Action Plan: Structural Review	Created: 09-Oct-2025	Due: 08-Dec-2025
Overall Notes: Spalling on girders changed from CS3 to CS4 due to reinforcement section loss.  The bridge has been on a 12 month inspection interval since 2022 due to the condition of the girders.  Structure was rated in 2023 by Alex Pence. Conditions were not significantly worse in 2025 but continue to deteriorate.		
Reviewer: Roesch, Matt	Reviewer PE Number: 47663	Review Method: engineering judgement
Element	Required Reason	Note
Prestressed Concrete Open Girder	increase in CS4 quantity	Girder 2: 20.0' L by 7" H by 3" D spall with multiple exposed reinforcements with up to 20% loss Girder 9: 5.0' L by 5" H by 3" D spalls with exposed corroded strands with up to 20% loss of section.
Final Action		
Recommended Repair		
Final Action(s) Complete: 22-Jan-2026	Late Reason: other	Late Reason Status Notes: Coordination with Village was delayed