





Latitude:35.04068, Longitude:-85.60353

Region 02, 58 - Marion County

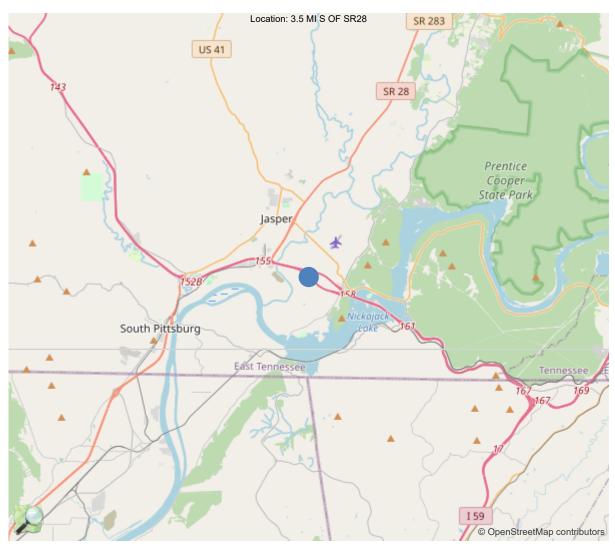
Team Leader: Derek Yates

Inspectors: Anthony Pack



County: 58 - Marion, **Route:** 02161, **Log mile:** 1.360

Team Lead: Derek Yates, Inspection Date: 07/17/2024

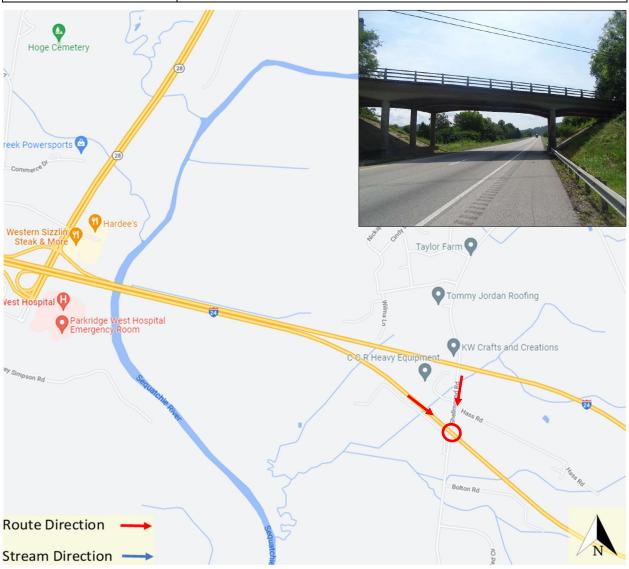


SHELLMOUND RD. Crossing SHELLMOUND RD. / I-24 EB 35.04068, -85.60353



Routine Bridge Inspection Report

Marion County			
Federal ID 58I00240039			
Location	58-02161-01.36		
Description Shellmound Road over Interstate 24 Eastbound Lanes, I-24 Milepost 157.29			
GPS Coordinates	35.040683, -85.603533		
Date	7/17/2024		
Overall Condition	Fair		







Maintenance Recommendations				
525 - Repair List # N	523 - Repair List Add Date	524 - Repair List Revise Date 7/13/2022		

Date Added	Recommendation	Priority
09/17/2002	INSTALL OBJECT MARKER SIGNS AT APPROPRIATE LOCATIONS	
09/22/2004	APPROACH GUARDRAILS ARE SUBSTANDARD	
07/25/2016	CLEAR DRAINS AT APPROACH #1 AND #2	
09/22/2004	BRIDGERAILS ARE SUBSTANDARD	
07/13/2022	REPAIR APPROACH GUARDRAIL ON RIGHT SIDE OF BOTH APPROACHES	
08/27/2018	UNDERPASS SUBSTRUCTURE PROTECTION GUARDRAILS ARE SUBSTANDARD	
07/13/2022	REMOVE DELAMINATED CONCRETE IN BOTTOM OF DECK SPAN #2	1



Region: 02, County: 58 - Marion

Team Lead: Derek Yates, Inspection Date: 07/17/2024

90 - LAST INSPECTION DATE	07/17/2024
10 - MIN. V.C. OVER DECK (ROADWAY + SHOULDERS)	99.99 FT.
520 - MIN. V.C. OVER DECK (EXCLUDES SHOULDERS)	99.99 FT.

36 - TRAFFIC SAFETY FEATURES

Br. Rail	Trans.	Appr. Rail	Terminal	SPEED LIM.
0	0	0	N	30
41 - STR	C OPEN/C	TED	P	
58 - DEC	K			6
59 - SUP	ERSTRUC	TURE		6
60 - SUB	STRUCTU	RE		7
61 - CHA	NL/CHANI	ON	N	
62 - CUL	VERT AND	ALL	N	
71 - WAT	ERWAY A		N	
72 - APP	ROACH R	MENT	6	
521 - OVI	ERALL CO	2 -	Fair	
16 - LATI	TUDE	17 - LC	ONGITUDE	
35.	040683	-8	35.603533	

TEAM LEADER SIGNATURE

- N NOT APPLICABLE
- 9 EXCELLENT CONDITION
- 8 VERY GOOD CONDITION NO PROBLEMS NOTED.
- 7 GOOD CONDITION SOME MINOR PROBLEMS.
- 6 SATISFACTORY CONDITION MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
- 5 FAIR CONDITION ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
- 4 POOR CONDITION ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
- 3 SERIOUS CONDITION LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
- 2 CRITICAL CONDITION ADVANCED
 DETERIORATION OF PRIMARY STRUCTURAL
 ELEMENTS. FATIGUE CRACKS IN STEEL OR
 SHEAR CRACKS IN CONCRETE MAY BE
 PRESENT OR SCOUR MAY HAVE REMOVED
 SUBSTRUCTURE SUPPORT. UNLESS
 CLOSELY MONITORED IT MAY BE
 NECESSARY TO CLOSE THE BRIDGE UNTIL
 CORRECTIVE ACTION IS TAKEN.
- 1 "IMMINENT" FAILURE CONDITION MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT IT BACK IN LIGHT SERVICE.
- 0 FAILED CONDITION OUT OF SERVICE AND BEYOND CORREC



IDENTIFICATION	V
(1) State Names	47 - Tennessee
(8) Structure Number	58100240039
(5) Inventory Route	1
(2) Highway Agency District	Region 2
(3) County Code	58 - Marion
(4) Place Code	00000
	SHELLMOUND RD. / I-24 EB
(7) Facility Carried	NFA 2161 (SA 5802)
(9) Location	3.5 MI S OF SR28
(11) Mile Point	1.360 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte (16) Latitude	35.040683
(17) Longitude	-85.603533
· / ·	-65.003333
(98) Border Bridge State Code (99) Border Bridge Structure No.	
STRUCTURE TYPE AND M	IATERIAL
(43) Main Structure Type	24
Material	2 - Concrete continuous
Туре	4 - Tee beam
(44) Approach Structure Type	00
Material	0 - Other / None
Туре	0 - Other / None
(45) No. of Spans in Main Unit	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVIC	
(27) Year Built	1965
(106) Year Reconstructed	0
(42) Type of Service	11
On Under 1 - Highwa	1 - Highway
	ay, with or without pedestrian
(28) Lane	2
Under	2
(29) Average Daily Traffic	1716
(30) Year of ADT	2021
(109) Truck ADT	
(19) Bypass, Detour Length	
TIGLEYDASS. DEIDULETIUIII	3 %
	3 % 5 mi
GEOMETRIC DAT	3 % 5 mi
GEOMETRIC DAT (48) Length of Maximum Span	3 % 5 mi A 60.5 ft
GEOMETRIC DAT (48) Length of Maximum Span (49) Structure Length	3 % 5 mi
GEOMETRIC DAT (48) Length of Maximum Span	3 % 5 mi A 60.5 ft 139.5 ft
GEOMETRIC DAT (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width	3 % 5 mi A 60.5 ft 139.5 ft t 0.0 ft
(48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width Lei Righ (51) Bridge Roadway Width Curb to Curb	3 % 5 mi A 60.5 ft 139.5 ft t 0.0 ft
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(48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width Let Righ	3 % 5 mi A 60.5 ft 139.5 ft ft 0.0 ft tt 0.0 ft 28.0 ft
GEOMETRIC DAT (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width Lei Righ (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out	3 % 5 mi A 60.5 ft 139.5 ft ft 0.0 ft tt 0.0 ft 28.0 ft 34.5 ft
(48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width Let Righ (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulders)	3 % 5 mi A 60.5 ft 139.5 ft ft 0.0 ft 128.0 ft 34.5 ft 22.0 ft
(48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width Let Righ (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulders) (33) Bridge Median	3 % 5 mi A 60.5 ft 139.5 ft ft 0.0 ft 10 0.0 ft 28.0 ft 34.5 ft 22.0 ft 0 - No median
GEOMETRIC DAT (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width Let Righ (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulders) (33) Bridge Median (34) Skew	3 % 5 mi A 60.5 ft 139.5 ft ft 0.0 ft t 0.0 ft 28.0 ft 22.0 ft 0 - No median 58 Deg
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(48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width Let Righ (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulders) (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy	3 % 5 mi A 60.5 ft 139.5 ft ft 0.0 ft tt 0.0 ft 28.0 ft 34.5 ft 22.0 ft 0 - No median 58 Deg 0 - No flare 99.99 ft 28.0 ft 99.99 ft
GEOMETRIC DAT (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width Let Righ (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulders) (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear	3 % 5 mi A 60.5 ft 139.5 ft ft 0.0 ft tt 0.0 ft 28.0 ft 34.5 ft 22.0 ft 0 - No median 58 Deg 0 - No flare 99.99 ft 28.0 ft
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(48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width Lei Righ (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulders) (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: (55) Min Lat Underclear RT	3 % 5 mi A 60.5 ft 139.5 ft ft 0.0 ft 28.0 ft 34.5 ft 22.0 ft 0 - No median 58 Deg 0 - No flare 99.99 ft 28.0 ft 99.99 ft
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(48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width Leta Righ (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulders) (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: (55) Min Lat Underclear RT Ref: (56) Min Lat Underclear LT NAVIGATION DAT	3 % 5 mi A 60.5 ft 139.5 ft ft 0.0 ft nt 0.0 ft 28.0 ft 24.5 ft 22.0 ft 0 - No median 58 Deg 0 - No flare 99.99 ft 28.0 ft 99.99 ft 17.00 ft 12.0 ft
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(48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width Let Righ (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulders) (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear RT Ref: (55) Min Lat Underclear RT Ref: (56) Min Lat Underclear LT NAVIGATION DAT (38) Navigation Control N	3 % 5 mi A 60.5 ft 139.5 ft ft 0.0 ft th 0.0 ft 28.0 ft 34.5 ft 22.0 ft 0 - No median 58 Deg 0 - No flare 99.99 ft 28.0 ft 17.00 ft 12.0 ft 11.0 ft A - Not applicable, no waterwa

CLASSIFI	CATION
(112) NBIS Bridge Length	Υ
(104) Highway System	0
(26) Functional Class	8 - Rural Minor Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - The inventory route is not
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	4 - Historical significance is
CONDI	TION
(58) Deck	6
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING	AND POSTING
(31) Design Load	6 - MS 18+Mod / HS 20+Mod
(63) Operating Rating Method	8
(64) Operating Rating	
	d and Resistance Factor Rating (LRF
Rating	27.86
(65) Inventory Rating Method	8 - Load and Resistance Factor
(66) Inventory Rating	
Туре	10.11
Rating	19.44
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	P - Posted for load (may inclu
APPRA	
(67) Structural Evaluation	5
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	3
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment (36A) Bridge Railings	
(36B) Transitions	0 - Inspected feature does not meet0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	N - Not applicable or a safety feat
(113) Scour Critical Bridges	N - Bridge not over waterway.
PROPOSED IMI	-
(75) Type of Work (76) Length of Structure Improvement	36 - Bridge deck rehabilitatio 140.1 ft
(94) Bridge Improvement Cost	\$ 152
(95) Roadway Improvement Cost	\$ 16
(96) Total Project Cost	\$ 10
(97) Year of Improvement Cost Estima	
(114) Future ADT	2467
(115) Year of Future ADT	2042
(110) Tear of Fatare 7151	2012
INSPECT	TIONS *
(90) Inspection Date	07/17/2024
(91) Frequency	24
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No
B: Underwater Inspection	No
C: Other Special Inspection	No
* The inspection date and frequency the current NBI date and frequency i report header for the date this inspec	information. Please refer to the





Looking ahead on route



Top of deck





Looking back on route



Typical bottom of deck





Right side view of structure



Left side view of structure





Underclearance looking ahead on underpass route



Underclearance looking back on underpass route





Bridge number and underpass number



Weight posting for Approach #1





Weight posting for approach #2



Advanced weight posting sign for approach #2





Typical abutment

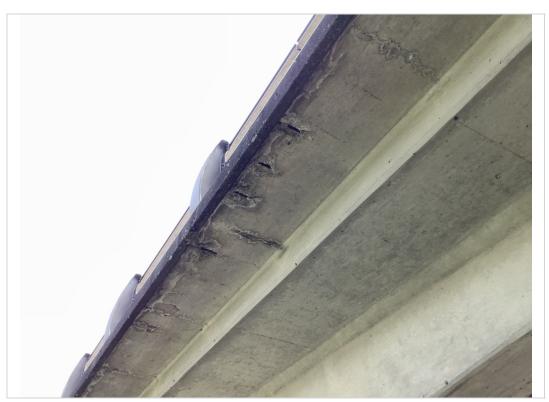


Typical bent





Typical delaminated areas in overhang



Typical spall with exposed rebar





Typical spall on bents



Debris on top of deck





Damaged guardrail at approach #2 right



			l	PERFORMANCE EVALUATION	
Time of Da	y Inspected	9:20 A.M	l.	Weather Conditions	s Overcast, 89°F
Vehicles Observed Autos		os			
				LIVE LOAD BEHAVIOR	
				LIVE LOAD BEHAVIOR	
	/ Vert. Defl	(No)	-		
Sub Vibrat		(No)			
-	iz./ Vert. Defl	. ,			
Super Vib	ration	(No)			
				APPROACH	
Alignment	: (Fair)	Mode	ate vertical curves at both approaches	
Slab	(NA)			
Joints	(NA)			
Pavement	(Good)			
Embankm	ent (Good)			
Approach	Drains (Fair)	Partia	ly blocked with debris	
				TRAFFIC SAFETY FEATURES	
Bridge Ra	iling (Good)			
Transition	s Rating (NA)	Appro	ach guardrail not attached to bridge railir	ng
Guardrail	Rating (Poor)	Collisi	on damage; set too low	
Guardrail Rating	Terminal (Poor)	Collisi	on damage; set too low	
				SIGNS POSTED ON ROUTE	
Paddleboa	rds		Neede	d Weight Limit Poste	d Yes
Vertical Cle	earance (<14'	-6")	No	Gross	40 Tons
Posted Height				Single-unit Vehicle	Tons
Narrow Bridge Signs			No	Multi-unit Vehicle	 Tons
One Lane Bridge Signs		No			
Other Signs or Plaques 564 Assigned Bridge Name		ge Name 			
				ATTACHED SIGNS	220011050 2112011447 70
Sign No	Loc	cation		Text on Sign	PUBLIC RECORDS REQUES Noted Defects covered by 23 U



DECK

Wearing Surface Typ	e Asphalt	Wearing Surface Depth 4		
Wearing Surface	(Fair)	Heavy vegetation at curblines; some moderate cracking		
Deck - Structural Condition	(Fair)	Some minor cracking, delaminated areas, and repaired areas; isolated minor and moderate spalls		
Curbs	(Fair)	Widespread minor transverse cracks, dirt and vegetation in curbs		
Median	(NA)			
Sidewalks	(NA)			
Parapet	(NA)			
Railing	(Good)	Substandard metal railing		
Rail Paint	(NA)			
Deck Drains	(NA)			
Lighting Standards	(NA)			
Utilities	(NA)			
Expansion Joints	(NA)	Slight to moderate leakage on abutments		
		SUPERSTRUCTURE		
Bearing Devices	(Good)			
Girders	(Fair)	Widespread minor cracks		
Beams	(NA)			
Floor Beams	(NA)			
Stringers	(NA)			
Diaphragms	(Good)			
Superstructure Bracing	(NA)			
Trusses - General	(NA)			
Trusses - Portals	(NA)			
Trusses - Bracing	(NA)			
Superstructure Paint	(NA)			
Alignment of Members	(Good)			

TEXTURE COAT



		ABUTMENTS
Abutment Caps	(Good)	
Abutment Breastwall	(NA)	
Abutment Wings	(Good)	
Abutment Backwall	(Good)	
Abutment Plumb	(Good)	
Abutment Footing	(Not visible)	
Abutment Piles	(Not Visible)	
Abutment Embankment	(Good)	
Abutment Bearing Surface	(Good)	
Abutment Slope Paving	(Good)	
Abutment Rip Rap	(NA)	
		PIERS
Pier Caps	(NA)	
Pier Columns I Walls	(NA)	
Pier Plumb	(NA)	
Pier Footing	(NA)	
Pier Piles	(NA)	
Pier Bearing Surface	(NA)	
		BENTS
Bent Caps	(NA)	
Bent Columns	(Good)	Some minor rebar pop-outs and delaminated areas
Bent Plumb	(Good)	
Bent Footing	(Not Visible)	
Bent Piles	(Not Visible)	
Bent Bearing Surface	(Good)	
Piles Need Replacement	(No)	PRODUCED PURSUANT TO



Inspection Team's Summary

This bridge is a three span concrete deck girder structure crossing I-24 eastbound lanes. It has a total length of 139.5 feet with a maximum span length of 60.5 feet and is placed on a 58° left skew. It was constructed in 1965. The bridge was inspected on July 17, 2024, by a Region 2 bridge inspection team from Tullahoma and was found to be in overall fair condition.

The approach alignment is rated fair due to moderate vertical curves at both approaches. The approach pavement is rated good. The drains are rated fair due to being partially blocked with debris. The substandard bridge railing is rated good. The approach guardrail is not attached to the bridge railing. The guardrails and terminals are substandard and rated poor. The guardrail has collision damage and is set too low. Object marker signs are needed. The approach #1 right object marker sign is defaced, and the approach #2 paddleboards are missing.

The deck is rated fair. The top of the concrete deck is not visible due to the asphalt wearing surface. There is heavy vegetation at the curblines and cracking. The bottom of the concrete deck some minor cracking, delaminated areas, repaired areas, and isolated minor and moderate spalls. The curbs are rated fair due to widespread minor transverse cracks, dirt, and vegetation in the curblines. The substandard deck railing is rated good. There is slight to moderate joint leakage on the abutments.

The superstructure is rated fair. The beams have widespread minor cracking.

The substructure is rated good. The columns are have some minor rebar pop-outs and delaminated areas.

The underpass is rated good. There are delaminated areas in overhangs in span #2 which could fall onto the roadway beneath.

General Inspection Comment

HQ notes to TL





			Deck Elevation	
Benchmark height	646.93	Benchmark location	Top of bridge seat on right side of abutment 1.	Edge location
Commont				

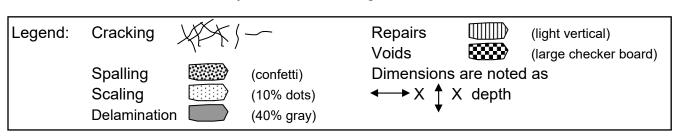
Comment

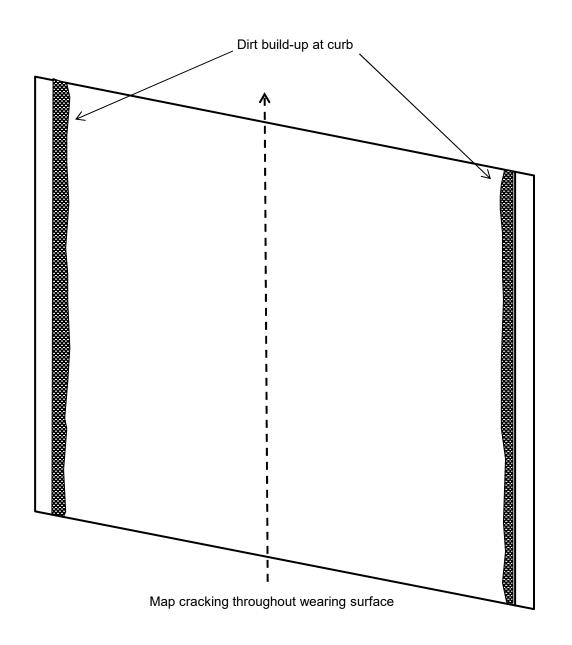
Location	Top Lt. Curb	Left Gutter	Center Line	Right Gutter	Top Rt. Curb
ABUTMENT 1	650.02	649.52		649.35	649.85
BENT 1	650.05	649.65		649.63	650.06
BENT 2	649.35	648.92		649.25	649.65
ABUTMENT 2	650.06	648.25		648.68	649.14

Top of Deck Span No. 1

Date 07/17/24

Bridge Location No. 58 02161 1.36 County Route Log Mile

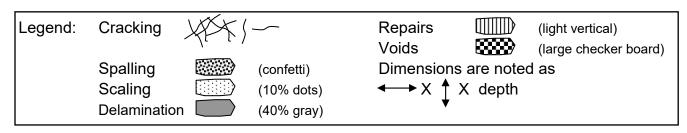


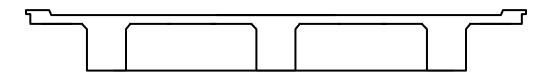


Bottom of Deck Span No. 1

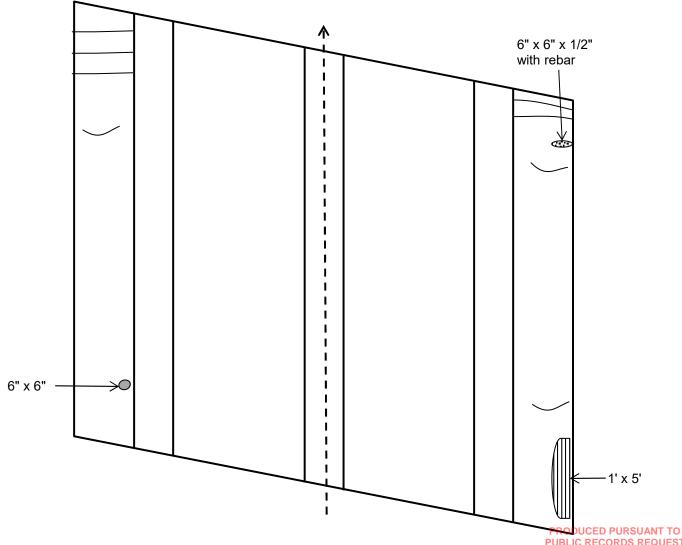
Date 07/17/24

Bridge Location No. 58 02161 1.36 County Route Log Mile





-Cracks are hairline with efflorescence



PUBLIC RECORDS REQUEST
This document is covered by 23 U.S.C.A.
§407 and its production pursuant to a
public document records request does
not waive the provisions of §407.

Bridge Location No	County	02161 Route	1.36 Log Mile			
Legend: Cracking	XX/-		Repairs Voids	****		ical) ecker board)
Spalling Scaling Delaminatio		confetti) 10% dots) 40% gray)	Dimensions ←→ X ↑ >	are noted depth	las	
Beam "A" - Right Side						
Beam "A" - Left Side						
Beam "B" - Right Side						
Beam "B" - Left Side						
					1	1

Beam Details - Span No. 1

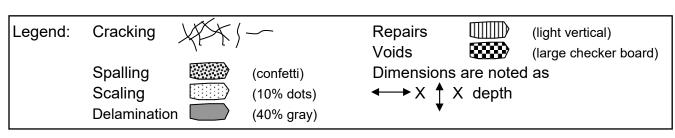
Date 07/17/24

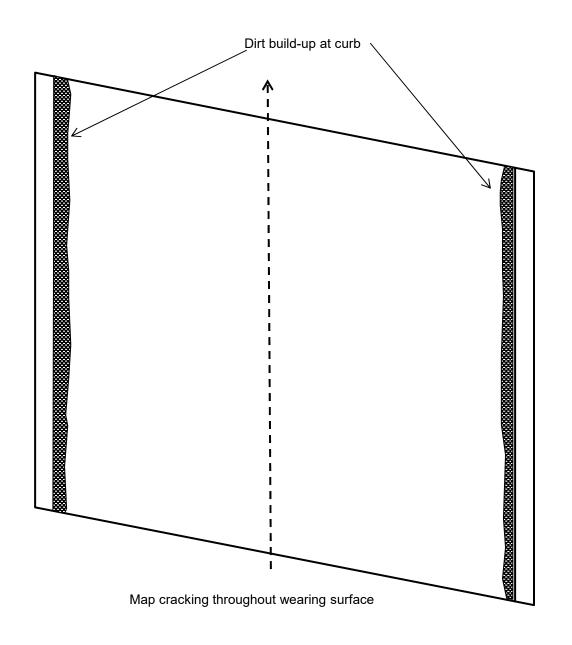
Beam Details - Span No. 1	Date <u>07/17/24</u>
Bridge Location No. 58 02161 County Route	1.36 Log Mile
Legend: Cracking \(\sqrt{\sq}}\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	Repairs (light vertical) Voids (large checker board)
Spalling (confetti)	Dimensions are noted as
Scaling (10% dots)	X ↑ X depth
Delamination (40% gray)	*
Beam "C" - Right Side	
Beam "C" - Left Side	

Top of Deck Span No. 2

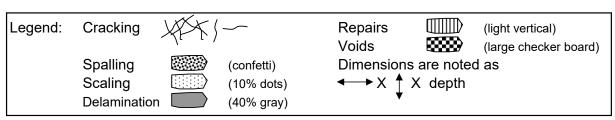
Date 07/17/24

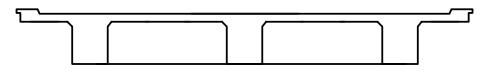
Bridge Location No. 58 02161 1.36 County Route Log Mile





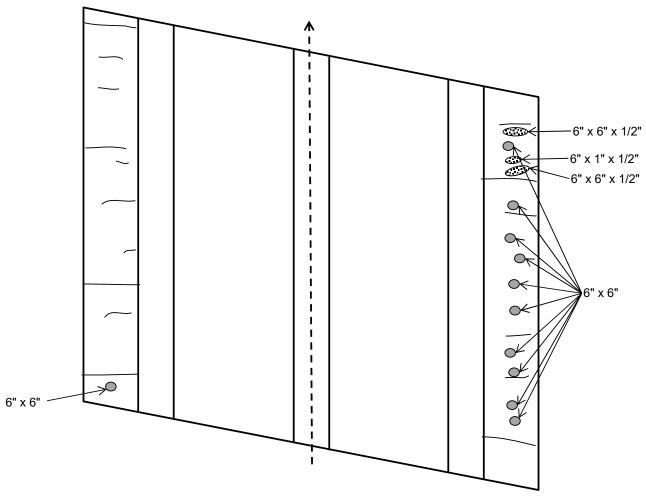
Bridge Location No. 58 02161 1.36 County Route Log Mile





-Cracks are hairline with efflorescence

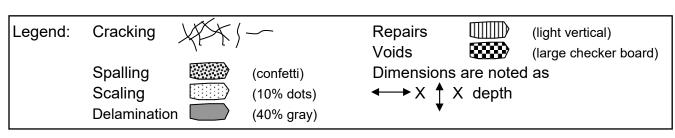
-All spalls have rebar

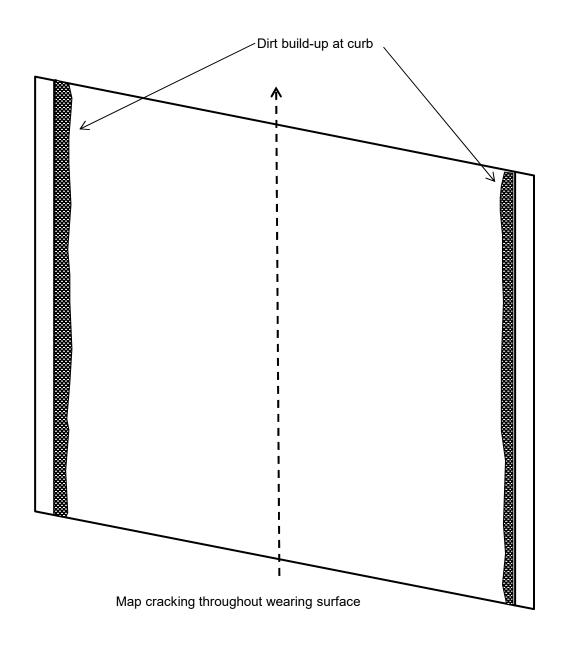


Top of Deck Span No. 3

Date 07/17/24

Bridge Location No. 58 02161 1.36 County Route Log Mile

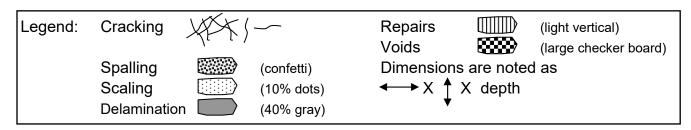


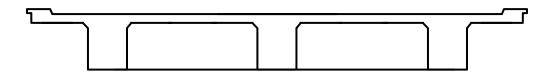


Bottom of Deck Span No. 3

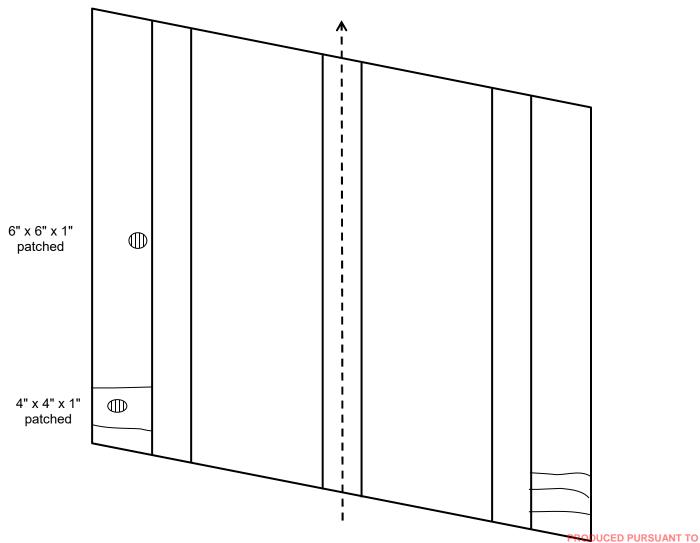
Date 07/17/24

Bridge Location No. 58 02161 1.36 County Route Log Mile





cracks are hairline with efflorescence



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public document records request does
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Bridge Location No.	58 County	02161 Route	1.36 Log Mile		
Legend: Cracking Spalling Scaling Delamination	(10)	nfetti) % dots) % gray)	Repairs Voids Dimensions (are noted depth	(light vertical) (large checker board) as
Beam "A" - Right Side					
Beam "A" - Left Side					
Beam "B" - Right Side					
Beam "B" - Left Side					

Beam Details - Span No. 3

Date 07/17/24

Bridge Location No. 02161 1.36 58 Log Mile County Route Legend: Repairs Cracking (light vertical) Voids (large checker board) **Spalling** Dimensions are noted as (confetti) Scaling X depth (10% dots) (40% gray) Delamination Beam "C" - Right Side Beam "C" - Left Side

Date

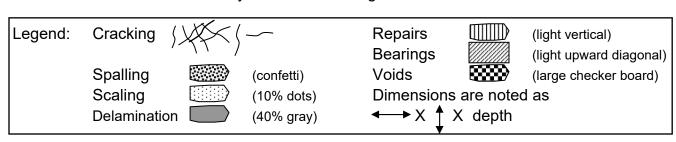
07/17/24

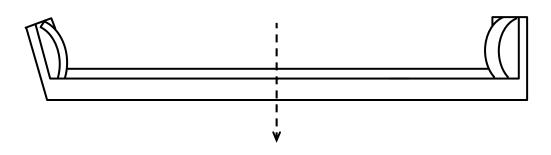
Beam Details - Span No. 3

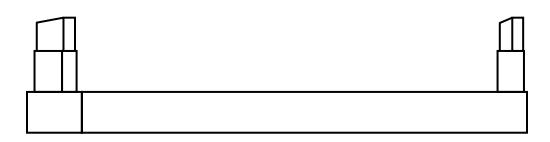
Abutment No. 1

Date 07/17/24

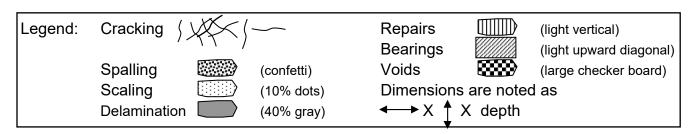
Bridge Location No. 58 02161 1.36 County Route Log Mile

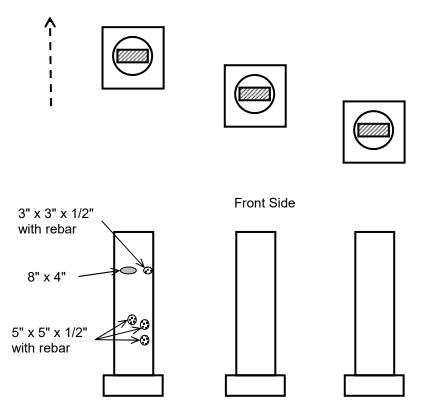


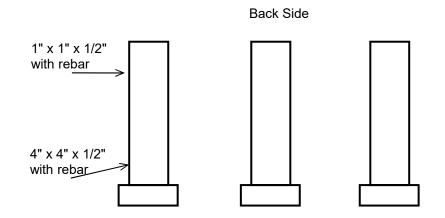




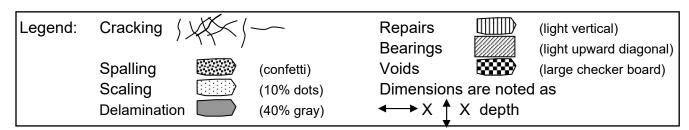
Bridge Location No. 58 02161 1.36 County Route Log Mile

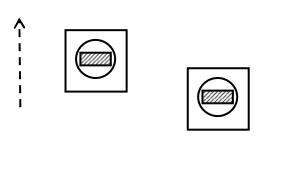


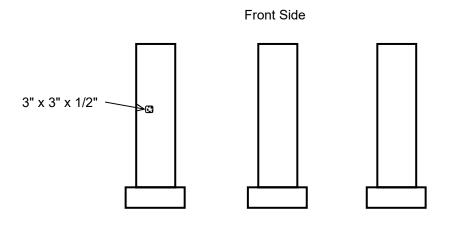


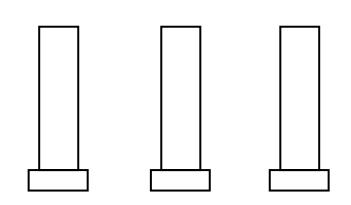


Bridge Location No. 58 02161 1.36 County Route Log Mile







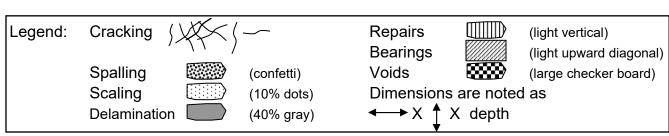


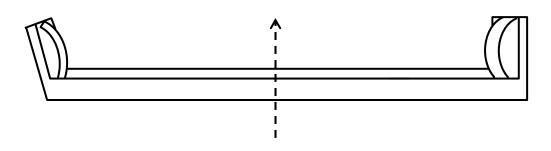
Back Side

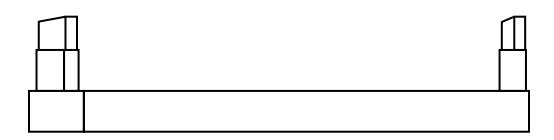
Abutment No. 2

Date 07/17/24

Bridge Location No. 58 02161 1.36 County Route Log Mile







Form BIR 3.10

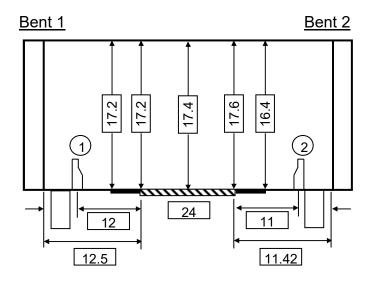
REVISED 6-9-92

Bridge Location No. 58 2161 1.36 County Route Log Mile

Date <u>07/17/24</u>

NOTE: ALL DISTANCES AND ELEVATIONS ARE IN FEET.

Lateral and Vertical Clearances for One Lane Highway



:

2. Rail / Barrier Type:

W-Shape

W-Shape

Conc. Barrier

Conc. Barrier

None

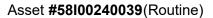


Equipment List

General Inspection	Tools For Measuring
Yes Pocket knife	Masonry/Wood Ruler
Yes Sounding/chipping hammer	Yes 6' Pocket Tape
Chain drag	25' and 100' Tape
Yes Range pole	Calipers
25' rod - depth and clearance	Thermometer
Visual Aid	Carpenter's Level String and Weighted line (plumb bob)
Binoculars	:::::9::::::::([:::::::::::::::::::::::
Flashlight	Special Purpose Equipment
Magnifying glass	Reach All
Hand mirror	Bucket Truck
Cleaning	Traffic control
Wisk broom	Sonar depth finder
Wire brush	Increment borer
Flat bladed screwdriver	Survey equipment
Hand shovel	Safety Harness
Penetrating oil (WD-40, etc.)	Climbing equipment
Tools For Access	Dye penetrant
Ladders	Drone
Rope	Air Meter
Waders	Special Purpose Equipment
Machete or bush axe	

Reach-All Approval and Comments

Comment





ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Re Conc Top Flange	SF	4185	4103	78	4	0
1080	Delamination/Spall/Patched Area	SF	22	0	18	4	0
1120	Efflorescence/Rust Staining	SF	60	0	60	0	0
510	Wearing Surfaces	SF	3906	2203	0	1703	0
3220	Crack (Wearing Surface)	SF	1703	0	0	1703	0
(16) Elemen	t record added 2016-07-25.						
(1080-16) E	lement record added 7/23/2020						
(1120-16) E	lement record added 7/20/2022						
(510-16) Ele	ment record added 2016-07-25.						
(3220-510-1	6) Element record added 7/20/2022						
110	Re Conc Opn Girder/Beam	LF	419	419	0	0	0
(110) Eleme							
205	Re Conc Column	EA	6	3	3	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1090	Exposed Rebar	EA	2	0	2	0	0
(205) Eleme	nt record added 2016-07-25.						
(1090-205)	Element record added 7/20/2022						
215	Re Conc Abutment	LF	42	42	0	0	0
(215) Eleme	nt record added 2016-07-25.						
310	Elastomeric Bearing	EA	6	6	0	0	0
(310) Element record added 2016-07-25.							
330	Metal Bridge Railing	LF	279	279	0	0	0
(330) Eleme	nt record added 2016-07-25.						