



Team Lead: Elizabeth Roadinger, Inspection Date: 10/25/2023

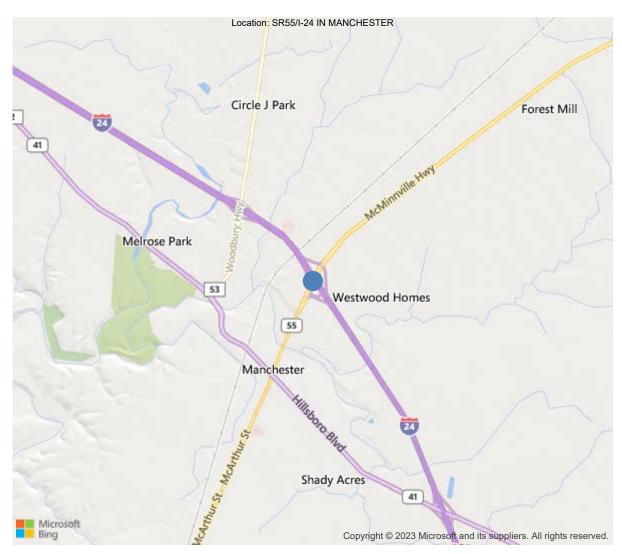


Latitude:35.48967, Longitude:-86.07423

Region 02, 16 - Coffee County

Team Leader: Elizabeth Roadinger

Inspectors: Bradley Dagenais, Anthony Pack

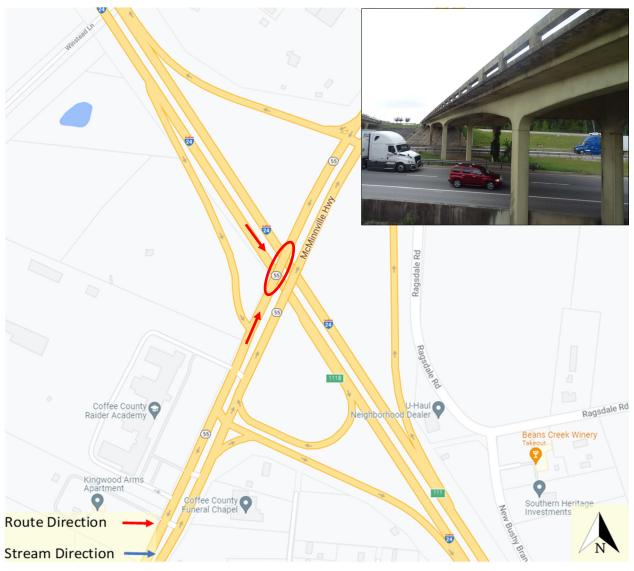


MCMINNVILLE HWY. Crossing I24 35.48967, -86.07423



Routine Bridge Inspection Report

City of Manchester in Coffee County				
Federal ID	16100240030			
Location	16-SR055-14.77-L			
Description	McMinnville Highway over I-24, I-24 Milepost 111.20			
GPS Coordinates	35.489667, -86.074233			
Date	10/25/2023			
Overall Condition	Poor			





Asset #16I00240030(Routine)

Region: 02, County: 16 - Coffee

Team Lead: Elizabeth Roadinger, Inspection Date: 10/25/2023

Maintenance Recommendations

525 - Repair List # 2 523 - Repair List Add Date 2/13/2002 524 - Repair List Revise Date 10/12/2021

Date Added	Recommendation	Priority
10/21/2021	CLEAN AND PAINT BEARINGS	
01/19/2010	BRIDGERAILS ARE SUBSTANDARD	
05/19/2004	PROTECT BRIDGESEATS FROM WATER DAMAGE AT BOTH ABUTMENTS	
11/04/2021	REMOVE LOOSE DELAMINATED CONCRETE OVER UNDERPASS ROADWAY	
01/29/2014	APPROACH GUARDRAILS ARE SUBSTANDARD	
10/16/2019	REPAIR ROADWAY EXPANSION DEVICES	
10/25/2023	REPAIR CONCRETE CRACKS, SPALLS, AND DELAMINATED AREAS THROUGHOUT THE STRUCTURE	



90 - LAS	Γ INSPECT	10/25	5/2023				
	V.C. OVEI AY + SHO	19.20	FT.				
520 - MIN. V.C. OVER DECK 18.10 FT. (EXCLUDES SHOULDERS)							
36 - TRAI	36 - TRAFFIC SAFETY FEATURES						
Br. Rail	Trans.	Appr. Rail	Terminal	SPEED LIM.			
0 0 0 0 40							
41 - STRC OPEN/CLOSED/POSTED A							

30 - 110-	30 - INALLIO SALETTI EATORES							
Br. Rail	Trans.	Appr. Rail	Terminal	SPE	ED LIM.			
0	0	0	0		40			
41 - STR	C OPEN/C	LOSED/POS	TED	Α				
58 - DECK 4								
59 - SUF	59 - SUPERSTRUCTURE 5							
60 - SUE	60 - SUBSTRUCTURE 5							
61 - CHA	61 - CHANL/CHANL PROTECTION N							
62 - CUL	VERT ANI	O RETAIN W	ALL	N				
71 - WA	71 - WATERWAY ADEQUACY N							
72 - AP	PROACH F	RDWY ALIGN	MENT	8				
521 - OV	521 - OVERALL CONDITION 3 - Poor							
16 - LAT	TTUDE	17 - LC	ONGITUDE					
35	5.489667	-8	36.074233					

- 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



IDENTIFICA	ATION
(1) State Names	47 - Tennessee
(8) Structure Number	16100240030
(5) Inventory Route	1
(2) Highway Agency District	Region 2
(3) County Code	16 - Coffee
(4) Place Code	45500
(6) Features Intersected	124
(7) Facility Carried	FAP 55 SBL
(9) Location	SR55/I-24 IN MANCHESTER
(11) Mile Point	14.770 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	16SR055001
(16) Latitude	35.489667
(17) Longitude	-86.074233
(98) Border Bridge State Code	
(99) Border Bridge Structure No. STRUCTURE TYPE A	ND MATEDIAI
(43) Main Structure Type	ND MATERIAL 24
Material	2 - Concrete continuous
Type	4 - Tee beam
(44) Approach Structure Type	00
Material	0 - Other / None
Type	0 - Other / None
(45) No. of Spans in Main Unit	4
(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	8 - Unknown
Type of Deck Protection	0 - None
AGE AND SE	RVICE
(27) Year Built	1966
(106) Year Reconstructed	1973
(42) Type of Service	51
On	5 - Highway-pedestrian
	lighway, with or without pedestrian
(28) Lane	ngay;a. e. maneat peacetian.
On	2
Under	
(29) Average Daily Traffic	4
(30) Year of ADT	4
(30) Year of ADT (109) Truck ADT	4 16822
· /	4 16822 2021
(109) Truck ADT	4 16822 2021 7 % 1 mi
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC	4 16822 2021 7 % 1 mi
(109) Truck ADT (19) Bypass, Detour Length	4 16822 2021 7 % 1 mi
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span	4 16822 2021 7 % 1 mi C DATA
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length	4 16822 2021 7 % 1 mi C DATA
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length	4 16822 2021 7 % 1 mi C DATA 79.3 ft 281.3 ft
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb	4 16822 2021 7 % 1 mi C DATA 79.3 ft 281.3 ft Left 5.0 ft Right ft
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft Left 5.0 ft Right ft
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft Right ft 60 30.4 ft 42.4 ft 16822
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft Right ft 60 30.4 ft 42.4 ft 16822
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft Right ft 10 30.4 ft 42.4 ft ders) 24.0 ft
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (33) Bridge Median	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft 281.3 ft ft ft ders) 24.0 ft 0 - No median
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (33) Bridge Median (34) Skew	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft Left 5.0 ft Right ft 0 30.4 ft 42.4 ft ders) 24.0 ft 0 - No median 58 Deg
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (33) Bridge Median (34) Skew (35) Structure Flared	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft Left 5.0 ft Right ft 0 30.4 ft 42.4 ft ders) 24.0 ft 0 - No median 58 Deg 0 - No flare
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft Left 5.0 ft Right ft 0 30.4 ft 42.4 ft ders) 24.0 ft 0 - No median 58 Deg 0 - No flare 19.20 ft
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear	4 16822 2021 7 % 1 mi DATA 79.3 ft 281.3 ft Left 5.0 ft Right ft 0 30.4 ft 42.4 ft ders) 24.0 ft 0 - No median 58 Deg 0 - No flare 19.20 ft 43.1 ft
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (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:	4 16822 2021 7 % 1 mi 2DATA 79.3 ft 281.3 ft 281.3 ft Left 5.0 ft Right ft 0 30.4 ft 0 42.4 ft ders) 24.0 ft 0 - No median 58 Deg 0 - No flare 19.20 ft 43.1 ft 99.99 ft 18.10 ft
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (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	4 16822 2021 7 % 1 mi 2 DATA 79.3 ft 281.3 ft 281.3 ft Left 5.0 ft Right ft 0 30.4 ft 42.4 ft ders) 24.0 ft 0 - No median 58 Deg 0 - No flarer 19.20 ft 43.1 ft 99.99 ft
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (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:	4 16822 2021 7 % 1 mi 2DATA 79.3 ft 281.3 ft 281.3 ft Left 5.0 ft Right ft 0 30.4 ft 0 42.4 ft ders) 24.0 ft 0 - No median 58 Deg 0 - No flare 19.20 ft 43.1 ft 99.99 ft 18.10 ft
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (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:	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft 281.3 ft 42.4 ft 6 1
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (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 (38) Navigation Control	4 16822 2021 7 % 1 mi 2DATA 79.3 ft 281.3 ft Left 5.0 ft Right ft 0 30.4 ft 42.4 ft ders) 24.0 ft 0 - No median 58 Deg 0 - No flare 19.20 ft 43.1 ft 99.99 ft 18.10 ft 11.7 ft
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (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 (38) Navigation Control (111) Pier Protection	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft 281.3 ft Left 5.0 ft Right ft 42.4 ft ders) 24.0 ft 0 - No median 58 Deg 0 - No flare 19.20 ft 43.1 ft 99.99 ft 18.10 ft 11.7 ft 26.5 ft N DATA N - Not applicable, no waterwa
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (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 (38) Navigation Control (111) Pier Protection (39) Navigation Vertical Clearance	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft 281.3 ft Left 5.0 ft Right ft 0 30.4 ft 0 42.4 ft ders) 24.0 ft 0 - No median 58 Deg 0 - No flare 19.20 ft 43.1 ft 99.99 ft 18.10 ft
(109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoul (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 (38) Navigation Control (111) Pier Protection	4 16822 2021 7 % 1 mi CDATA 79.3 ft 281.3 ft 281.3 ft 6.5 ft Right 6.5 6.5 ft 6.5 ft 6.5 ft 6.5 ft 7.5 ft 7

CLASSIFI	ICATION
(112) NBIS Bridge Length	Υ
(104) Highway System	1
(26) Functional Class	14 - Urban Other Principal Art
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	L - The left structure of para
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - The inventory route is not
(20) Toll (21) Maintain	3 - On free road. The structu
(22) Owner	1 - State Highway Agency 1 - State Highway Agency
(37) Historical Significance	4 - Historical significance is
COND	
(58) Deck	4
(59) Superstructure	5
(60) Substructure	5
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING	
(31) Design Load	6 - MS 18+Mod / HS 20+Mod
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	40.50
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Туре	
Rating	
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPR	
(67) Structural Evaluation	6
(68) Deck Geometry	1
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	5
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy	
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment	5 N 8
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings	5 N
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment	5 N 8 0 - Inspected feature does not meet
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions	5 N 8 0 - Inspected feature does not meet 0 - Inspected feature does not meet
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail	5 N 8 0 - Inspected feature does not meet 0 - Inspected feature does not meet 0 - Inspected feature does not meet
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway.
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IMI (75) Type of Work	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway.
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IMI (75) Type of Work (76) Length of Structure Improvement	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway. PROVEMENTS
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IMI (75) Type of Work (76) Length of Structure Improvement (94) Bridge Improvement Cost	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway. PROVEMENTS 33 - Widening of existing brid 281.2 ft \$ 150
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IMI (75) Type of Work (76) Length of Structure Improvement (94) Bridge Improvement Cost (95) Roadway Improvement Cost	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway. PROVEMENTS 33 - Widening of existing brid 281.2 ft \$ 150 \$ 16
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IM (75) Type of Work (76) Length of Structure Improvement (94) Bridge Improvement Cost (95) Roadway Improvement Cost (96) Total Project Cost	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway. PROVEMENTS 33 - Widening of existing brid 281.2 ft \$ 150 \$ 166 \$ 226
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IMI (75) Type of Work (76) Length of Structure Improvement (94) Bridge Improvement Cost (95) Roadway Improvement Cost (96) Total Project Cost (97) Year of Improvement Cost Estima	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway. PROVEMENTS 33 - Widening of existing brid 281.2 ft \$ 150 \$ 166 \$ 226 ate 2020
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IMI (75) Type of Work (76) Length of Structure Improvement (94) Bridge Improvement Cost (95) Roadway Improvement Cost (96) Total Project Cost (97) Year of Improvement Cost Estima (114) Future ADT	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway. PROVEMENTS 33 - Widening of existing brid 281.2 ft \$150 \$16 \$266 \$226 \$226 \$23632
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IMI (75) Type of Work (76) Length of Structure Improvement (94) Bridge Improvement Cost (95) Roadway Improvement Cost (96) Total Project Cost (97) Year of Improvement Cost Estima	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway. PROVEMENTS 33 - Widening of existing brid 281.2 ft \$ 150 \$ 164 \$ 226 ate 2020
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(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IMI (75) Type of Work (76) Length of Structure Improvement (94) Bridge Improvement Cost (95) Roadway Improvement Cost (96) Total Project Cost (97) Year of Improvement Cost Estima (114) Future ADT (115) Year of Future ADT INSPEC* (90) Inspection Date (91) Frequency	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway. PROVEMENTS 33 - Widening of existing brid 281.2 ft \$ 150 \$ 16 \$ 226 ate 2020 23632 2040 FIONS * 10/12/2021
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IMI (75) Type of Work (76) Length of Structure Improvement (94) Bridge Improvement Cost (95) Roadway Improvement Cost (96) Total Project Cost (97) Year of Improvement Cost Estima (114) Future ADT (115) Year of Future ADT INSPECT (90) Inspection Date (91) Frequency (92) Critical Feature Inspection	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway. PROVEMENTS 33 - Widening of existing brid 281.2 ft \$ 150 \$ 16 \$ 226 ate 2020 23632 2040 PIONS * 10/12/2021 24 Done Freq. (Mon) Date
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IMI (75) Type of Work (76) Length of Structure Improvement (94) Bridge Improvement Cost (95) Roadway Improvement Cost (96) Total Project Cost (97) Year of Improvement Cost Estima (114) Future ADT (115) Year of Future ADT INSPEC* (90) Inspection Date (91) Frequency (92) Critical Feature Inspection A: Fracture Critical Detail	5 N 8 0 - Inspected feature does not meet N - Bridge not over waterway. PROVEMENTS 33 - Widening of existing brid 281.2 ft \$ 150 \$ 16 \$ 226 23632 2040 TIONS * 10/12/2021 24 Done Freq. (Mon) Date No
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Looking ahead on route



Across top of deck





Looking back on route



Side view of structure





Underclearance looking east



Underclearance looking west





Bottom of deck



Bridge number





Typical abutment



Typical bent





Typical moderate efflorescence in bottom of deck



Typical moderate spalls with exposed rebar in bottom of deck bay "A" PUBLIC RECORDS REQUEST
This document is covered by 23 U.S.C.A.

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Typical spalls with rebar in right overhangs

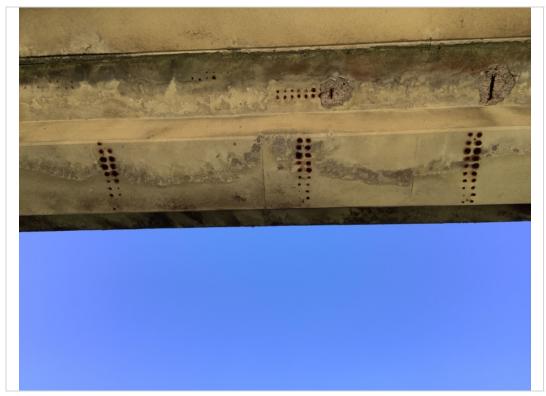


Typical moderate spall in bottom of deck





Typical crack in bottom of deck



Typical rust staining in bottom of deck





Typical bearing



Bearing "C" at abutment #1





Span #3 beam "A"



Moderate vertical crack in beam "A" in span #3





Moderate spall on beam "A" in span #3 with exposed strands



Hairline longitudinal crack along length of beam "A" in span #3





Typical cracks on beams



Beam "D" at abutment #1

PRODUCED PURSUANT TO 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.





Typical cracks with efflorescence at abutments



Void between deck and abutment #1 at left side





Void between deck and abutment #2 at left side



Bearing surface for bearing "B" (under beam "C") at abutment #1





#2 left abutment



Typical spalls on bent columns from collision damage





Typical rebar pop-outs on bent columns



Vegetation growing on bent columns





Sidewalk deterioration



Typical rough and uneven wearing surface





Typical pothole in wearing surface



#1 approach joint





#2 approach joint



Attached sign



Asset #16I00240030(Routine)

Region: 02, County: 16 - Coffee

Team Lead: Elizabeth Roadinger, Inspection Date: 10/25/2023

PERFORMANCE EVALUATION						
Time of Day Inspected	10:00	AM	We	ather Conditions	Sunny, 67°F	
Vehicles Observed A	III types					
		LI	IVE LOAD BEH	IAVIOR		
Sub Horiz./ Vert. Defl	,					
Sub Vibration	(No)					
Super Horiz./ Vert. De	. ,					
Super Vibration	(Yes)					
			APPROAC	Н		
Alignment	(Good)					
Slab	(NA)					
Joints	(Poor)	Asphalt over	laid; cracking and	rough patches ove	er joints	
Pavement	(Poor)	Rough and u	neven with up to 2	" of settlement ov	er joints	
Embankment	(Good)					
Approach Drains	(Good)					
		TRAF	FIC SAFETY F	EATURES		
Bridge Railing Rating	(Fair)	Weathering s	stains and rebar po	pp-outs		
Transitions Rating	(Good)					
Guardrail Rating	(Good)					
Guardrail Terminal Rating	(Good)					
		SIG	NS POSTED O	N ROUTE		
Paddleboards		No	We	ight Limit Posted	Not Needed	
Vertical Clearance (<1	4'-6")	No	Gro	oss	Tons	
Posted Height	_		Sin	gle-unit Vehicle	Tons	
Narrow Bridge Signs	_	No		ti-unit Vehicle	Tons	
One Lane Bridge Sign	s _	No				
Other Signs or Plaques Route 55 signage; I-24 signage					_	

ATTACHED SIGNS

PRODUCED PURSUANT TO PUBLIC RECORDS REQUEST

Sign No	Location	Text on Sign	Noted of the control
	Left side of bridge over I-24	Exit 111B	not waive the provisions of §407.
	Eastbound lanes	HWY 55 McMinnville	None



Team Lead: Elizabeth Roadinger, Inspection Date: 10/25/2023

DECK

Wearing Surface Type	e Asphalt	Wearing Surface Depth 3		
Wearing Surface	(Poor)	Moderate cracking throughout; potholes and repaired areas		
Deck - Structural (Poor) Condition		Moderate leakage at bay "A" at construction joint; widespread moderate spalls with exposed rebar in overhangs and bay "A"; hairline cracks with efflorescence; delaminated areas		
Curbs	(Good)			
Median	(NA)			
Sidewalks	(Poor)	Minor settlement at the bridge ends; areas of broken concrete		
Parapet	(NA)			
Railing	(Fair)	Weathering stains and rebar pop-outs		
Rail Paint	(NA)			
Deck Drains	(NA)			
Lighting Standards	(NA)			
Utilities	(NA)			
Expansion Joints	(Poor)	Asphalt overlaid; moderate cracking and rough patches over joints; moderate joint leakage at abutments		
		SUPERSTRUCTURE		
Bearing Devices	(Fair)	Corroded at abutment #1 on "A" and "C" due to lack of paint		
Girders	(Fair)	Beam "D" has up to 0.125" diagonal cracking over the bearing at abutment #1; beam "A" in span #3 has two moderate spalls exposing prestressing strands; moderate crack and hairline longitudinal crack along length of "A"; cracks on beams "B" and "C" in span #2		
Beams	(NA)			
Floor Beams	(NA)			
Stringers	(NA)			
Diaphragms	(Good)			
Superstructure Bracing	(NA)			
Trusses - General	(NA)			
Trusses - Portals	(NA)			
Trusses - Bracing	(NA)			
Superstructure Paint	(Poor)	On bearings. Paint has failed and bearings are corroded at abutment #1 "A" and "C"		
Alignment of Members	(Good)			



	ABUTMENTS					
Abutment Caps	(Fair)	Moderate spalls with exposed rebar and delaminated areas				
Abutment Breastwall	(NA)					
Abutment Wings	(Good)					
Abutment Backwall	(Fair)	Delaminated areas; cracks with efflorescence; gap between deck and abutment on left side of both abutments				
Abutment Plumb	(Good)					
Abutment Footing	(NA)					
Abutment Piles	(Not Visible)					
Abutment Embankment	(Good)					
Abutment Bearing Surface	(Fair)	Delaminated area under bearing "B" at abutment #1				
Abutment Slope Paving	(Fair)	Broken behind bent #1				
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	(Fair)	Spalls at bent #1 from collision damage; rebar pop-outs on columns at bent #3				
Bent Plumb	(Good)					
Bent Footing	(Not Visible)					
Bent Piles	(Not Visible)					
Bent Bearing Surface	(NA)					
Piles Need Replacement	(No)	PRODUCED PURSUANT TO				



Team Lead: Elizabeth Roadinger, Inspection Date: 10/25/2023

Inspection Team's Summary

This bridge consists of four concrete deck girder spans with an asphalt wearing surface. It has a total length of 281.3 feet with a maximum span length of 79.3 feet. It is situated on a 58° left skew. It was constructed in 1966, and it was widened in 1973. This bridge was inspected on October 25, 2023 by a Region 2 bridge inspection team from Tullahoma and was found to be in overall poor condition.

The approach alignment, embankments, and drains are rated good. The joints are rated poor due to being overlaid with asphalt. The pavement is rated poor due to being rough and uneven with up to 2 inches of settlement over the joints. The bridge railing is in fair condition due to weathering stains and rebar pop-outs. The traffic safety features do not meet the current safety standards.

The deck is rated poor. There is moderate leakage at bay "A" at the construction joints, widespread moderate spalls with exposed rebar in the overhangs and bay "A", delaminated areas, and some cracking with efflorescence. The sidewalks are rated poor due to minor settlement at the bridge ends and having areas of broken concrete. The wearing surface is in poor condition due to having moderate cracking throughout, potholes, and repaired areas.

The superstructure is rated fair. The bearing devices are rated fair due to corrosion at abutment #1 on bearings "A" and "C" due to lack of paint. The beams are rated fair. Beam "D" has up to 0.125 inch diagonal cracking over the bearing at abutment #1. Beam "A" in span #3 has two moderate spalls exposing prestressing stands. Beam "A" in span #3 also has a moderate vertical crack and a hairline longitudinal crack along the beam length. Beams "B" and "C" in span #2 have isolated cracks.

The substructure is rated fair. The abutment caps are rated fair due to moderate spalls with exposed rebar and delaminated areas. The backwalls are rated fair due to delaminated areas and cracks with efflorescence. The slope paving is rated fair due to being broken behind bent #1. The bent columns are rated fair due to spalls at bent #1 from collision damage and rebar pop-outs on columns at bent #3.

General Inspection Comment



Transportation

Asset #16I00240030(Routine)

Region: 02, County: 16 - Coffee

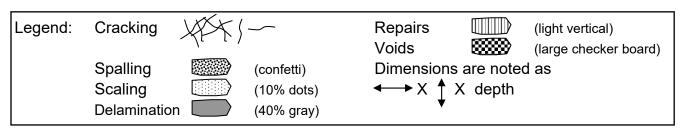
Team Lead: Elizabeth Roadinger, **Inspection Date:** 10/25/2023

			Deck Elevation		
Benchmark height	1095.54	Benchmark location	Top of curb on right side of abutment #1 Southbound	Edge location	_
			lanes		

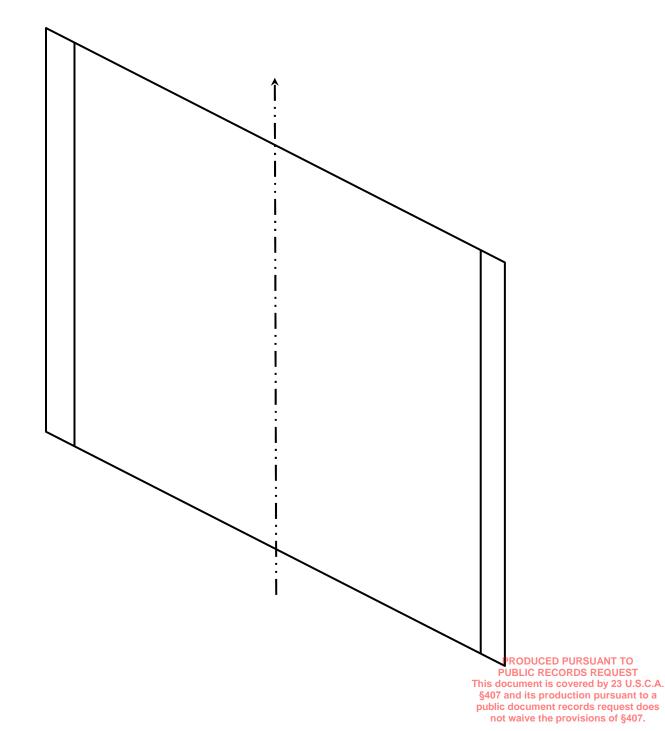
Comment All distances and elevations are in feet

Location	Top Lt. Curb	Left Gutter	Center Line	Right Gutter	Top Rt. Curb
Abutment #1	1091.31	1090.75	1090.85	1090.62	1090.42
Bent #1	1091.67	1091.01	1091.14	1090.95	1092.26
Bent #2	1091.73	1091.11	1091.27	1091.18	1091.77
Bent #3	1091.34	1090.75	1090.95	1090.95	1091.57
Abutment #2	1090.81	1090.22	1090.49	1090.49	1091.04

Bridge Location No. 16 SR55 14.77L County Route Log Mile



Asphalt is rough and uneven with moderate cracking throughout



(confetti)

(10% dots)

(40% gray)

14.<u>77L</u> Bridge Location No. SR55 16 Log Mile County Route Legend: Cracking Repairs (light vertical) Voids (large checker board)

Dimensions are noted as

X depth

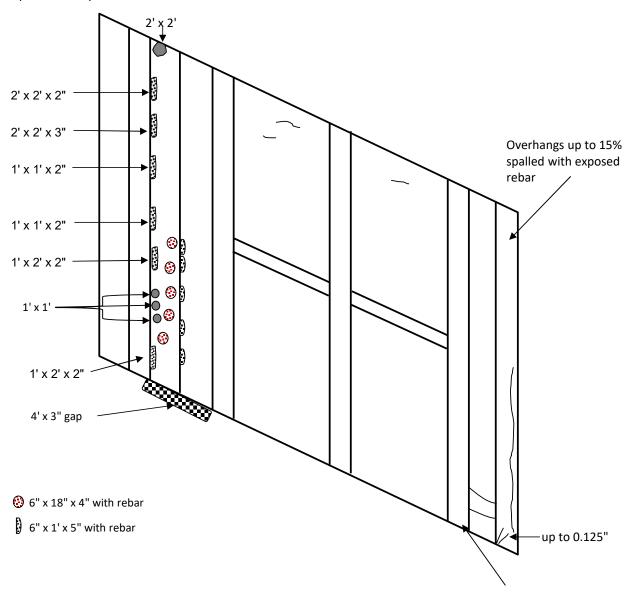
← X ↑

Cracks are hairline with minor efflorescence Spalls have exposed rebar

Spalling

Scaling

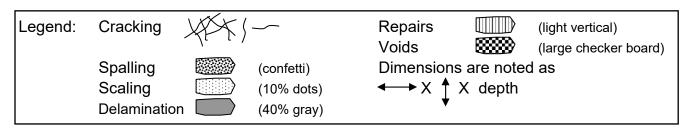
Delamination



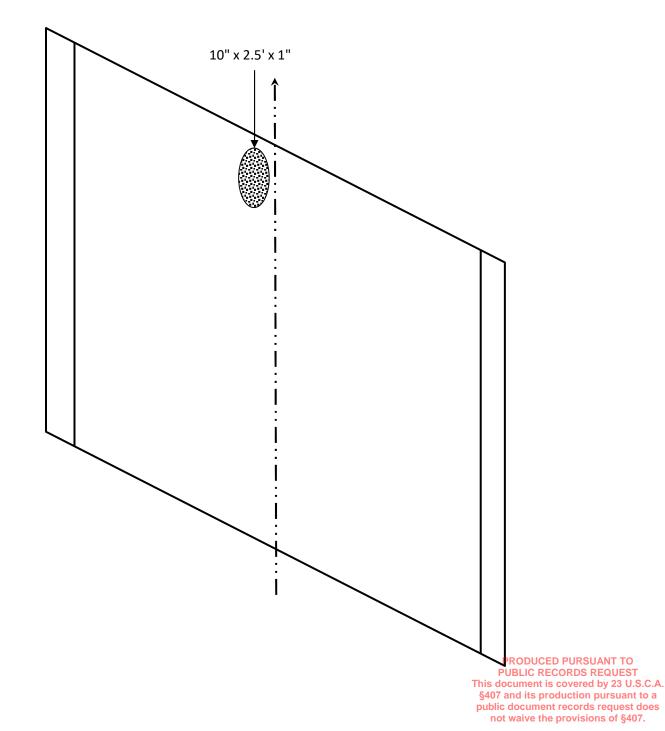
8' x 2' delaminated

area with 0.06" crack PRODUCED PURSUANT TO and 5" x 5" x 1" spall PUBLIC RECORDS REQUEST nis 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. 16 SR55 14.77L County Route Log Mile



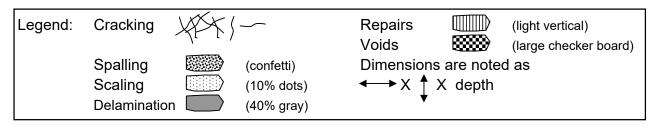
Asphalt is rough and uneven with moderate cracking throughout



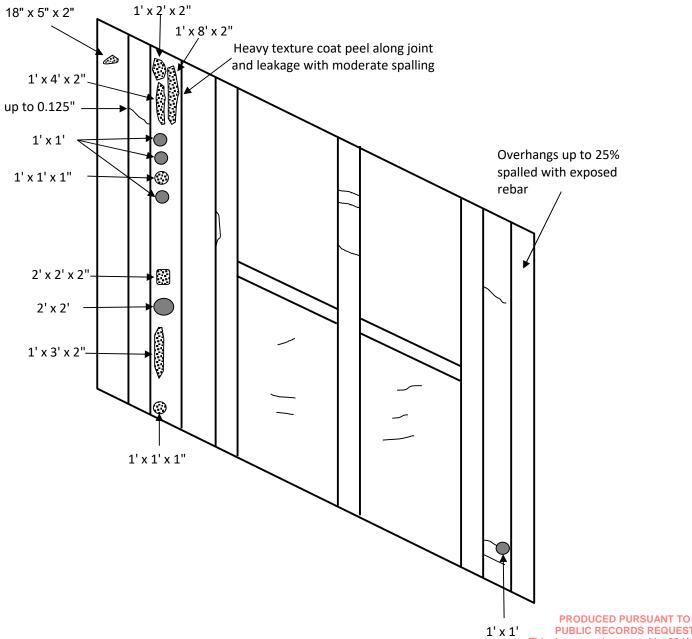
Bottom of Deck Span No. 2

Date October 25, 2023

Bridge Location No. 16 SR55 14.77L County Route Log Mile

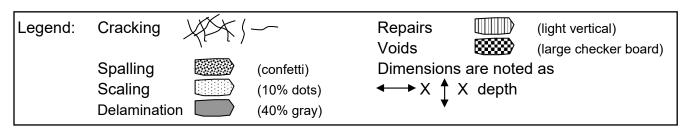


Cracks are hairline with minor efflorescence Spalls have exposed rebar

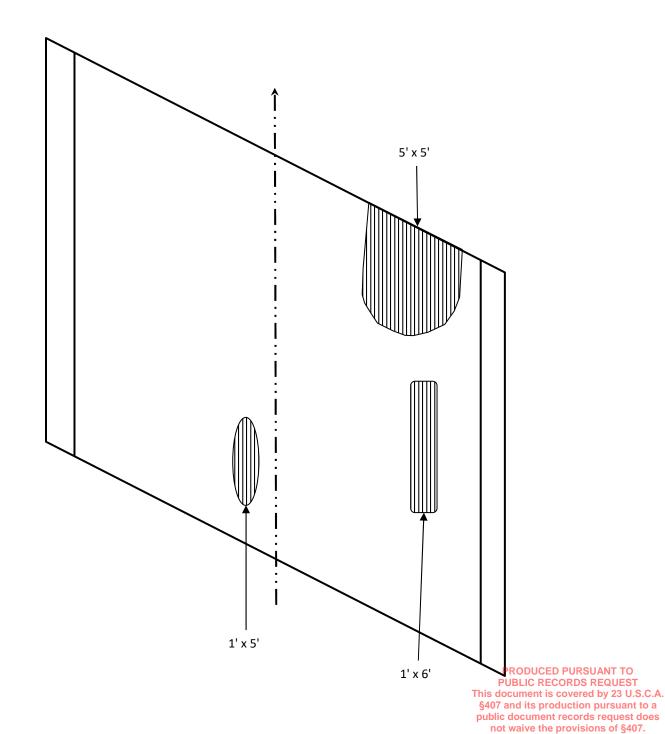


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Bridge Location No. 16 SR55 14.77L County Route Log Mile



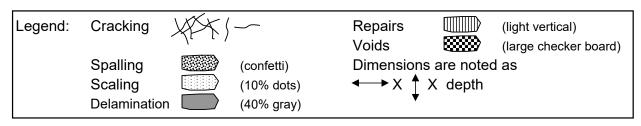
Asphalt is rough and uneven with moderate cracking throughout

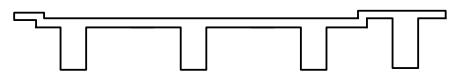


Bottom of Deck Span No. 3

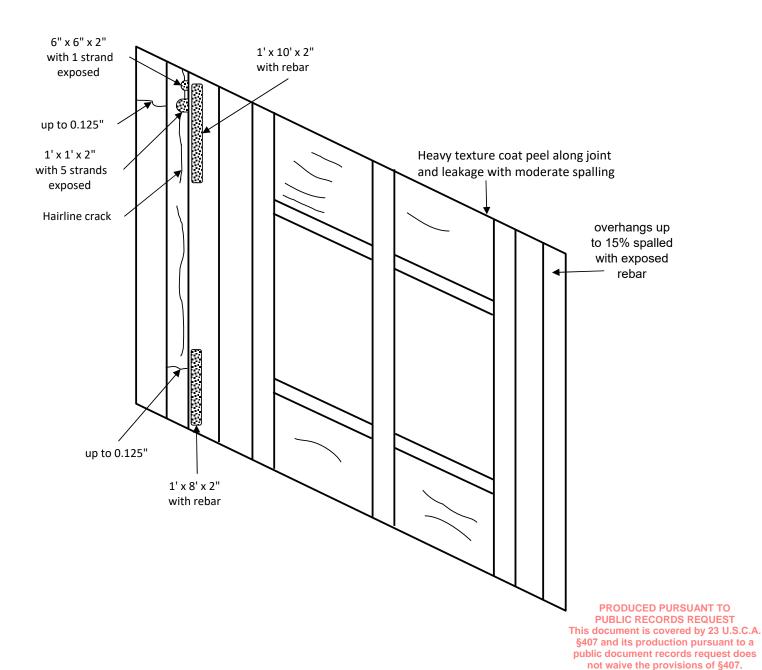
Date October 25, 2023

Bridge Location No. 16 SR55 14.77L County Route Log Mile

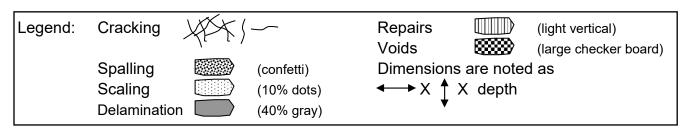




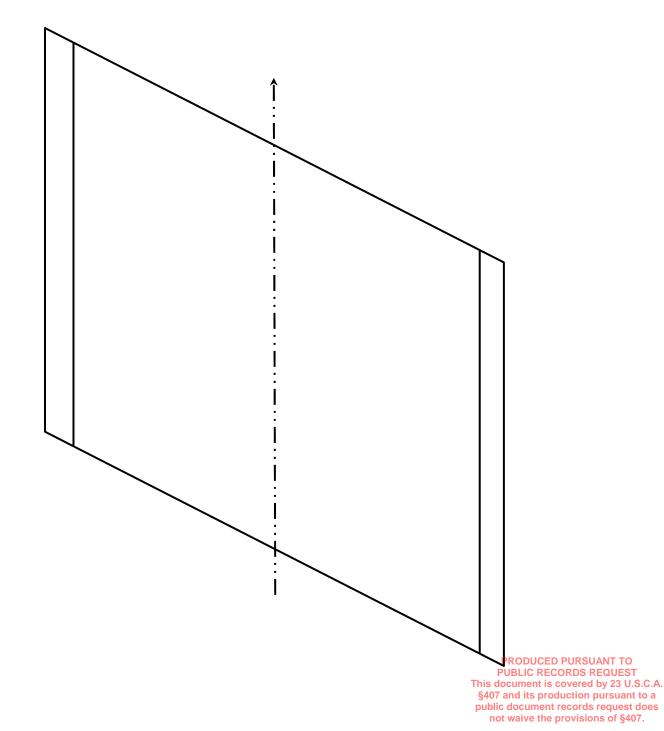
Cracks are hairline with slight efflorescence



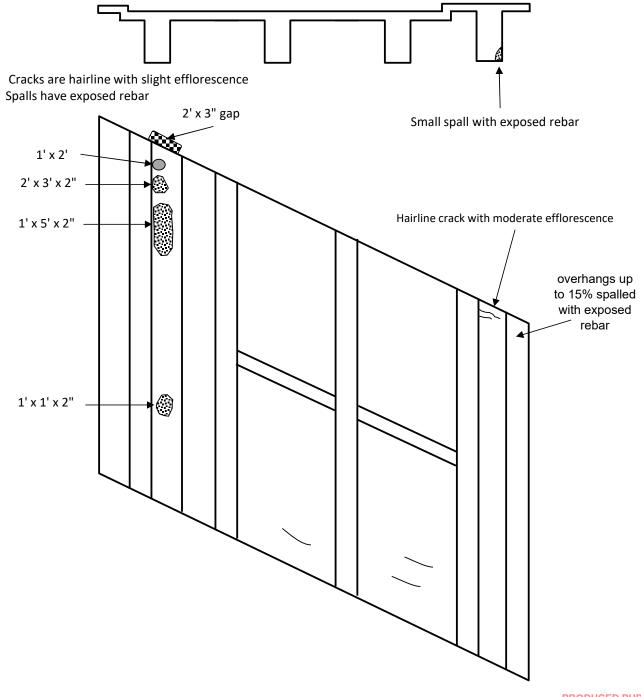
Bridge Location No. 16 SR55 14.77L County Route Log Mile



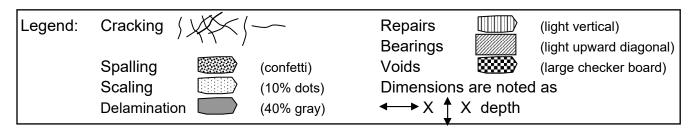
Asphalt is rough and uneven with moderate cracking throughout



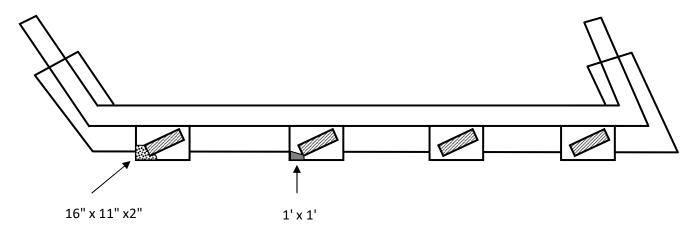
Bridge Location No. 16 SR55 14.77L Log Mile County Route Legend: Cracking Repairs (light vertical) Voids (large checker board) **Spalling** Dimensions are noted as (confetti) Scaling (10% dots) **←**→ X ↑ X depth Delamination (40% gray)

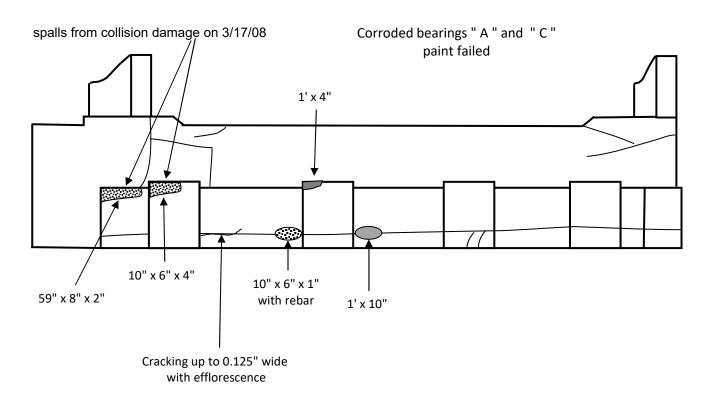


Bridge Location No. 16 SR55 14.77L County Route Log Mile

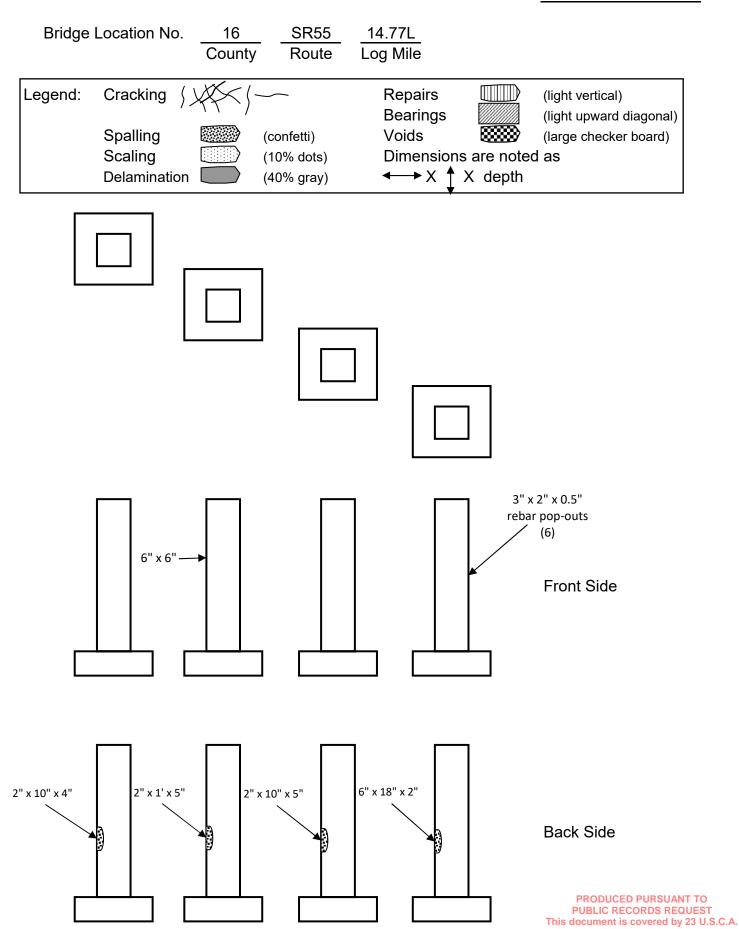


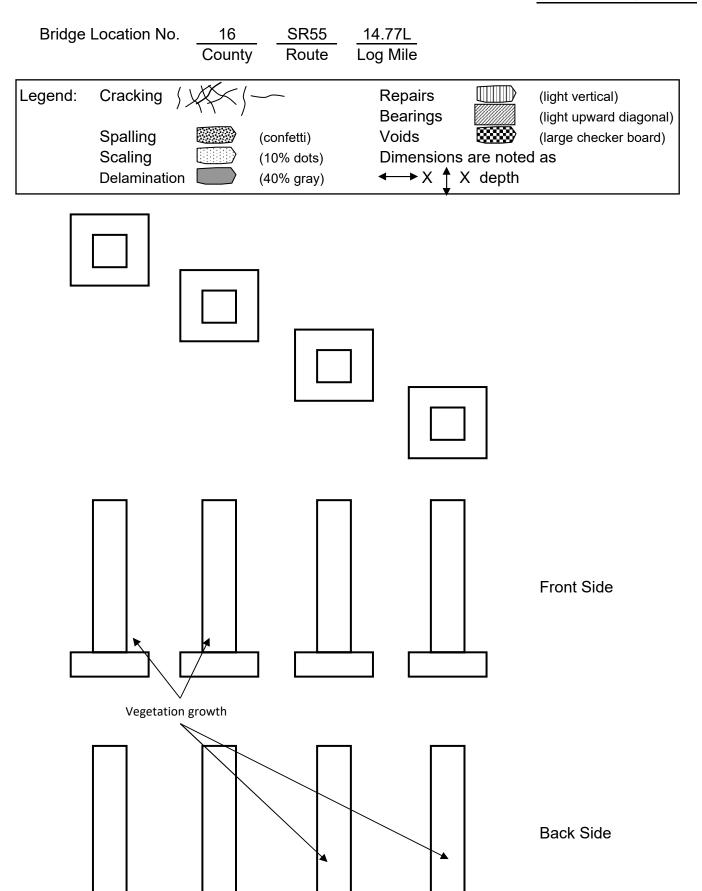
cracks are hairline





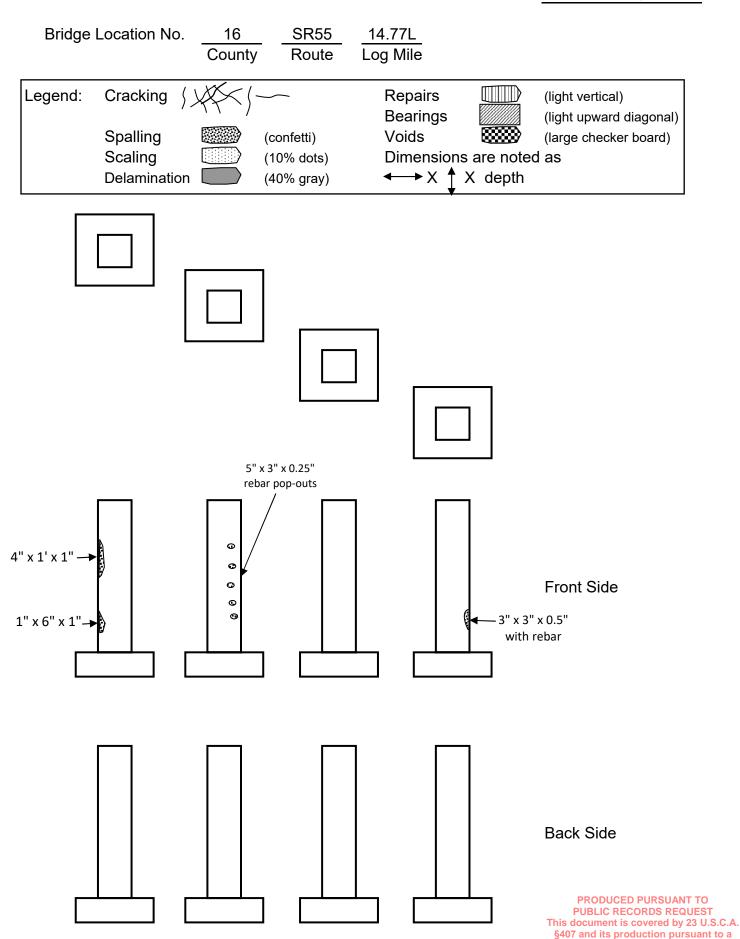
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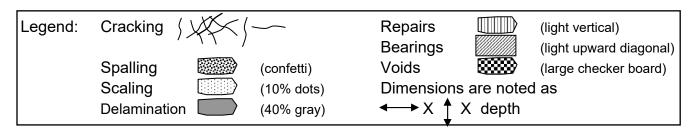


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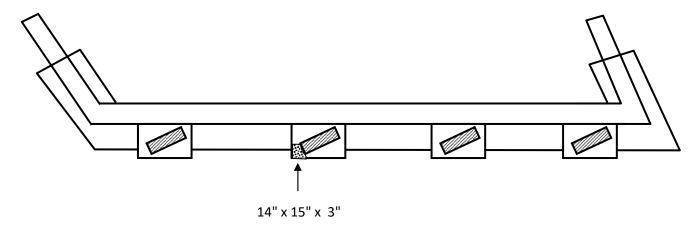
public document records request does not waive the provisions of §407.

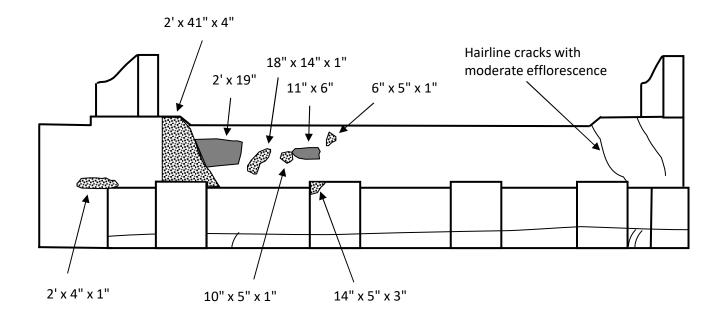


Bridge Location No. 16 SR55 14.77L County Route Log Mile



cracks are small





Form BIR 3.10

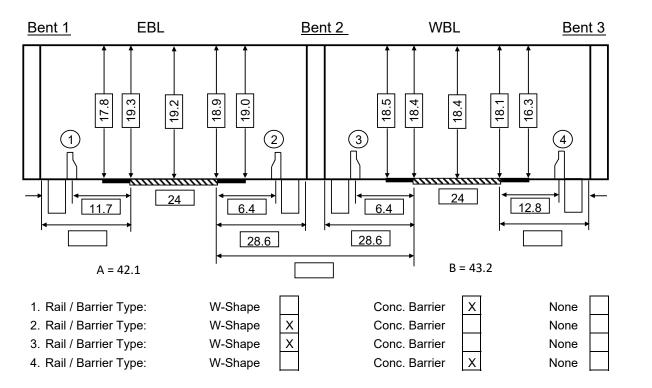
REVISED 6-9-92

Bridge Location No. 16 SR55 14.77L County Route Log Mile

Date October 25, 2023

NOTE: ALL DISTANCES AND ELEVATIONS ARE IN FEET.

<u>Lateral and Vertical Clearances for Divided Highway / Interstate</u>





Team Lead: Elizabeth Roadinger, **Inspection Date:** 10/25/2023

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	Yes Calipers
25' rod - depth and clearance	Thermometer
	Carpenter's Level
Visual Aid	String and Weighted line (plumb bob)
Binoculars 	
Yes Flashlight	Special Purpose Equipment
Magnifying glass	Reach All
Hand mirror	Bucket Truck
	Traffic control
Cleaning	Boat
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	Special Purpose Equipment
Waders	Laser measurer
Machete or bush axe	
	

Comment

not waive the provisions of §407.



Region: 02, County: 16 - Coffee

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	
16	Re Conc Top Flange	SF	11815	11457	155	203	0	
1080	Delamination/Spall/Patched Area	SF	210	0	155	195	0	
1120	Efflorescence/Rust Staining	SF	146	0	140	6	0	
	-	SF						
1130	Cracking (RC and Other)		152	150	0	2	0	
510	Wearing Surfaces Delamination/Spall/Patched Area/Pothole	SF	8439	6739	200	1500	0	
3210	(Wearing Surfaces)	SF	200	0	200	0	0	
3220	Crack (Wearing Surface)	SF	1500	0	0	1500	0	
(16) Elemen	t record added 2016-02-24.							
(1080-16) El	lement record added 2016-02-24.							
(1120-16) El	lement record added 11/9/2021							
(1130-16) El	lement record added 2016-02-24.							
(510-16) Ele	ment record added 2016-02-24.							
(3210-510-1	6) Element record added 2016-02-24.							
(3220-510-1	6) Element record added 2016-02-24.							
109	Pre Opn Conc Girder/Beam	LF	101	90	5	6	0	
1100	Exposed Prestressing	LF	2	0	0	2	0	
1110	Cracking (PSC)	LF	69	60	5	4	0	
(109) Eleme	nt record added 2016-02-24.							
(1100-109) (Element record added 11/9/2021							
110	Re Conc Opn Girder/Beam	LF	1025	1019	0	6	0	
1080	Delamination/Spall/Patched Area	LF	3	0	0	3	0	
1130	Cracking (RC and Other)	LF	3	0	0	3	0	
(110) Eleme	nt record added 2016-02-24.							
(1080-110) 8	Element record added 2016-02-24.							
(1130-110) (Element record added 2016-02-24.							
205	Re Conc Column	EA	12	6	5	1	0	
1080	Delamination/Spall/Patched Area	EA	2	0	1	1	0	
1090	Exposed Rebar	EA	1	0	1	0	0	
7000	Damage	EA	3	0	3	0	0	
	nt record added 2016-02-24.	L/\	J	J	J	J	J	
	Element record added 2016-02-24.							
	Element record added 11/9/2021				PRODUCED PURSUANT TO PUBLIC RECORDS REQUEST This document is covered by 23 U.S §407 and its production pursuant if public document records requested not waive the provisions of §407			





ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(7000-205)	Element record added 2016-02-24.	<u> </u>			'		
215	Re Conc Abutment	LF	118	85	6	27	0
1080	Delamination/Spall/Patched Area	LF	21	0	6	15	0
1120	Efflorescence/Rust Staining	LF	4	0	0	4	0
1130	Cracking (RC and Other)	LF	88	85	0	3	0
7000	Damage	LF	5	0	0	5	0
(215) Eleme	ent record added 2016-02-24.						
(1080-215)	Element record added 2016-02-24.						
(1120-215)	Element record added 11/9/2021						
(1130-215)	Element record added 2016-02-24.						
(7000-215)	Element record added 2016-02-24.						
302	Compressn Joint Seal	LF	100	0	0	100	0
2310	Leakage	LF	100	0	0	100	0
(302) Eleme	ent record added 2016-02-24.						
310	Elastomeric Bearing	EA	26	24	2	0	0
1000	Corrosion	EA	2	0	2	0	0
(310) Eleme	ent record added 2016-02-24.						
(1000-310)	Element record added 11/9/2021						
331	Re Conc Bridge Railing	LF	557	539	18	0	0
1090	Exposed Rebar	LF	18	0	18	0	0
1130	Cracking (RC and Other)	LF	30	30	0	0	0
(331) Eleme	ent record added 2016-02-24.						