



**Missouri Department of Transportation
State Culvert Inspection Report**

February 28, 2023
8:27:17AM

COUNTY: ST. LOUIS

DISTRICT: SL

CLASS: STATCUL

FED-ID: 5568

BRIDGE: J0888

*****GENERAL STRUCTURE INFORMATION*****

*****CULVERT INSPECTION INFORMATION*****

ROUTE: IS270E
FEATURE: MALINE CR
STATUS: A-OPEN
LOG MILE: 30.526
DETOUR: 1.00 MILES
NHS: YES
BUILT: 1931
REHAB: 2019
LOCATION: S 31 T 47 R 7 E
LATITUDE: 38 46 15.45 (DMS)
LONGITUDE: 90 16 4.14 (DMS)

SPANS: 2
LANES ON: 8
FILL DEPTH: 20 FT
COMPASS DIRECTION: WEST to EAST
DIRECTION OF TRAFFIC: 2-WAY TRAF
FUNCTIONAL CLASS: UR-INTERSTATE
NBI OWNER: MODOT
NBI MAINTAINED: MODOT
MAINTENANCE DISTRICT: SL
MAINTENANCE COUNTY: ST. LOUIS
SUB AREA: 7F22

PLACE CODE: 23986 FERGUSON CITY
LENGTH: 25 FT 0 IN
MAXIMUM SPAN: 10 FT 0 IN
APPROACH ROADWAY: 132 FT 0 IN
CURB TO CURB: 0 FT 0 IN
BARREL LENGTH: 560 FT 11 IN
AADT: 110731
AADT YEAR: 2022
AADT TRUCK: 18.4%
FUTURE AADT: 138414
FUTURE AADT YEAR: 2042

DATE: 11/03/2022 RESPONSIBILITY: DISTRICT
FREQUENCY: 12 CALCULATED INTERVAL**: 12
TEAM LEADER: JOSEPH MOLINARO ELEMENT: YES
INSPECTOR 2: INSPECTOR 4:
INSPECTOR 3:
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

GENERAL INSPECTION COMMENTS

*****SPECIAL INSPECTION INFORMATION*****

*****UNDERWATER INSPECTION INFORMATION*****

DATE: RESPONSIBILITY: CATEGORY:
FREQUENCY: CALCULATED INTERVAL**: NBI:
TEAM LEADER: INSPECTOR 3: METHOD:
INSPECTOR 2: INSPECTOR 4:

DATE: 11/03/2022 RESPONSIBILITY: DISTRICT CATEGORY: SHALLOW-WADE
FREQUENCY: 60 CALCULATED INTERVAL**: 12 NBI: NO
TEAM LEADER: JOSEPH MOLINARO INSPECTOR 3: METHOD:
INSPECTOR 2: INSPECTOR 4:

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

SPECIAL INSPECTION COMMENTS

UNDERWATER INSPECTION COMMENTS

OTHER SPECIAL INSPECTIONS

OTHER UNDERWATER INSPECTIONS

DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD

DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD

*****STRUCTURE POSTING*****

APPROVED CATEGORY: S-1 NO POSTING REQUIRED
Ton 1: Ton 2: Ton 3:
COMMENTS:

FIELD CATEGORY: S-1 NO POSTING REQUIRED
Ton 1: Ton 2: Ton 3: PROBLEM: PROBLEM DIRECTION:
COMMENTS:

*****GENERAL COMMENTS/MAJOR RATED ITEMS*****

GENERAL COMMENTS: (MOLINJ1, 11/07/2022)--2 (10' X 15') CONC BOX CULVERT (EXTENDED)...ACCESS FROM EB 270 RAMP TO AC OR FROM PERSHALL RD.

[ITEM 62] CULVERT: 4-POOR CONDITION
RATING : 11/18/2015

COMMENTS: (CAMPBL1, 11/18/2015)--INT WALL DETERIORATION
(CAMPBL1, 11/21/2017)--SEVERE FLOOR SCALING/MANY REBAR EXPOSED



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[ITEM 61] BANK/CHANNEL: 5-MAJOR DAMAGE
RATING : 01/03/2012

COMMENTS: (GEIGEM1, 11/05/2013)--MOD US BANK EROSION
(MARSHK2, 11/19/2019)--MOD FLOW RESTRICTION DUE TO HEAVY TREE GROWTH ON BOTH BANKS & CONC DEBRIS IN CHANNEL US & DS.

[ITEM 113] SCOUR: 8-STABLE FOR CALCULATED
RATING : 05/18/2001
EVALUATION TYPE :

COMMENTS: (CAMPBL1, 11/26/2018)--MINOR SCOUR @ DOWNSTREAM TOEWALL
(MARSHK2, 11/19/2019)--NO UNDERMINING

[ITEM 71] WATERWAY ADEQUACY: DECK/APPRCH OVERTOP SLIGT
RATING : 05/18/2001

COMMENTS:

[ITEM 72] APPRRDWY ALIGNMENT: 8-VERYGOOD
RATING : 05/18/2001

COMMENTS: (MARSHK2, 11/19/2019)--NO SPEED REDUCTION

*****RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS*****

[ITEM 36A] BRIDGE RAILING RATING: NOT REQUIRED-N

RATING : 03/02/2010

COMMENTS:

[ITEM 36B] TRANSITION RAILING RATING: NOT REQUIRED-N

RATING : 03/02/2010

COMMENTS:

[ITEM 36C] APPROACH RAILING RATING: NOT REQUIRED-N

RATING : 03/02/2010

COMMENTS:

[ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1

RATING : 05/18/2001

COMMENTS:

APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.

<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>CONDITION*</u>	<u>COMMENTS</u>
ASPHALT/CONCRETE	BITUMINOUS MAT/SLAB	BOTH	GOOD	

*****BANK AND DECK PROTECTIVE COMPONENTS*****

DECK PROTECTIVE COMPONENTS:

<u>SERIES TYPE-#</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>THICKNESS</u>	<u>YEAR APPLIED</u>	<u>MANUFACTURE</u>	<u>OVERALL CONDITION</u>
MAIN SERIES-1	WEARING SURFACE	EARTH FILL	NOT APPLICABLE				
<u>COMMENT:</u>							
	DECK PROTECTION	EARTH FILL	NOT APPLICABLE				
<u>COMMENT:</u>							
	MEMBRANE	EARTH FILL	NOT APPLICABLE				
<u>COMMENT:</u>							

BANK PROTECTION COMPONENTS:

<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
BANK PROTECTION	ROCK	BLANKET		



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DECK COMPONENTS

<u>SPAN TYPE-#</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>COMMENTS</u>
MAIN SPANS-1	DECK	EARTH FILL	NOT APPLICABLE	
MAIN SPANS-2	DECK	EARTH FILL	NOT APPLICABLE	

SUPERSTRUCTURE COMPONENTS

<u>SERIES TYPE-#</u>	<u>SPAN TYPE</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>
MAIN SERIES-1	CONTINUOUS SPAN	REINFORCED CONCRETE	BOX CULV-DOUB CELL	
	<u>SPAN</u>	<u>COMPOSITE INDICATOR</u>	<u>LENGTH</u>	
MAIN SPANS-1	NON-COMPOSITE	10 FT 0 IN		
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>
MAIN SPANS-2	NON-COMPOSITE	10 FT 0 IN		
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>

<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>SEVERITY</u>	<u>COMMENT</u>
CULVERT TOP SLAB	REINFORCED CONCRETE	CAST-IN-PLACE		
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>		
DIAGONAL CRACKS	THROUGHOUT		FEW	
EFFLORESCENCE	THROUGHOUT		MODERATE	
LEACHING	THROUGHOUT		MODERATE	
LONGITUDINAL CRACKS	THROUGHOUT		MODERATE	
REBAR EXPOSED	THROUGHOUT		FEW	
REBAR SECTION LOSS	THROUGHOUT		MINOR	
SPALLS	THROUGHOUT		MODERATE	
TRANSVERSE CRACKS	THROUGHOUT		MODERATE	
CULVERT BOTTOM SLAB	REINFORCED CONCRETE	CAST-IN-PLACE		
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>
LONGITUDINAL CRACKS	THROUGHOUT		MODERATE	
REBAR EXPOSED	THROUGHOUT		FEW	(CAMPBL1, 11/18/2015)--1931 SECTION - WEST BARREL HAS TOTAL OF 6 BARS EXPOSED HALF BARREL WIDTH, EAST BARREL HAS TOTAL OF 10 EXPOSED.
SCALING	THROUGHOUT		HEAVY	(CAMPBL1, 11/18/2015)--1931 SECTION; W/ ISOLATED SEVERE AREAS
SPALLS	THROUGHOUT		MODERATE	
HEADWALL	REINFORCED CONCRETE	CAST-IN-PLACE		
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>
TOEWALL	REINFORCED CONCRETE	CAST-IN-PLACE		
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>
EXPOSED	DOWNSTREAM		MINOR	

SUBSTRUCTURE COMPONENTS

<u>SUBSTRUCTURE</u>	<u>SKEW</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
CULVERT WALL-1	RA-33 DEGREES	REINFORCED CONCRETE	CAST-IN-PLACE-EXT WALL				
<u>ASSOCIATED COMPONENT</u>	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>CONSTRUCTION</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>



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STRAIGHT WINGS		REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>	
	EFFLORESCENCE	THROUGHOUT		LIGHT		
	SPALLS	RANDOM		SMALL		
	VERTICAL CRACKS	THROUGHOUT		FEW		
WALL						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>	
	DETERIORATION	BOTTOM		MODERATE		
	EFFLORESCENCE	THROUGHOUT		HEAVY		
	HIGH STEEL SPALLS	THROUGHOUT		FEW		
	LEACHING	THROUGHOUT		MODERATE		
	OTHER	VERTICAL JOINTS		NOT APPLICABLE	(CAMPBL1, 11/18/2015)--MOD LEACHING	
	REBAR EXPOSED	RANDOM		FEW		
	REBAR SECTION LOSS	RANDOM		MODERATE		
	RUST STAINS	VERTICAL JOINTS		MODERATE		
	SPALLS	DRAIN PIPE		LARGE	(MOLINJ1, 11/07/2022)--@ COREGATED PLACTIC PIPE INSTALLATION MID-LENGTH OF BARREL W/ REBAR EXPOSED.	
	VERTICAL CRACKS	THROUGHOUT		MODERATE		
CULVERT WALL-2	RA-33 DEGREES	REINFORCED CONCRETE	CAST-IN-PLACE-INT WALL			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
STRAIGHT WINGS	REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>		<u>COMMENT</u>
	DETERIORATION	ENDS		MODERATE		(MARSHK2, 11/19/2019)--AT DOWNSTREAM END
	SPALLS	RANDOM		SMALL		
	VERTICAL CRACKS	THROUGHOUT		MODERATE		
WALL						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>		<u>COMMENT</u>
	DELAMINATION	RANDOM		MODERATE		
	DETERIORATION	BOTTOM		SEVERE		(CAMPBL1, 12/03/2018)--NOT ATTACHED TO FLOOR IN ISOLATED AREAS - ABOUT 30 LF OF 1931 SECTION (HEAVY SECTION LOSS)
	EFFLORESCENCE	THROUGHOUT		HEAVY		
	REBAR EXPOSED	THROUGHOUT		FEW		
	REBAR SECTION LOSS	RANDOM		HEAVY		
	SPALLS	THROUGHOUT		MODERATE		
	VERTICAL CRACKS	THROUGHOUT		LARGE		
CULVERT WALL-3	RA-33 DEGREES	REINFORCED CONCRETE	CAST-IN-PLACE-EXT WALL			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
STRAIGHT WINGS	REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>		<u>COMMENT</u>
	EFFLORESCENCE	RANDOM		MODERATE		
	VERTICAL CRACKS	RANDOM		MODERATE		
WALL						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>		<u>COMMENT</u>
	DELAMINATION	RANDOM		LARGE		
	DETERIORATION	BOTTOM		MODERATE		
	EFFLORESCENCE	THROUGHOUT		HEAVY		
	HAIR LINE CRACKING	THROUGHOUT		FINE		
	HIGH STEEL SPALLS	RANDOM		FEW		(CAMPBL1, 12/11/2017)--MODERATE
	HORIZONTAL CRACKS	THROUGHOUT		MEDIUM		



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LEACHING	RANDOM	MODERATE	
REBAR EXPOSED	RANDOM	FEW	(CAMPBL1, 11/18/2016)--SEVERE
REBAR SECTION LOSS	RANDOM	MODERATE	
RUST STAINS	RANDOM	CONSIDERABLE	
VERTICAL CRACKS	THROUGHOUT	MODERATE	

*****OVER/UNDER ROUTES CLEARANCE INFORMATION*****

CLEARANCES OVER DECK

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>
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*****REQUESTED WORK ITEMS*****

GENERAL WORK COMMENTS:

<i>RESPONSIBILITY</i>	<i>LOCATION</i>	<i>ITEM</i>	<i>CATEGORY</i>	<i>PRIORITY</i>	<i>DATE</i>	<i>WORK ITEM COMMENT</i>
DISTRICT ROUTINE	STREAM CHANNEL	CUT BRUSH & TREES	CHANNEL	2	11/20/2017	(CAMPBL1, 11/18/2015)--CUT TREES ON BANK GROWING INTO CHANNEL
STIP	SEE COMMENT	POUR CONCRETE FLOOR	BOTTOM SLAB	3	01/01/2026	(MARSHK2, 11/19/2019)--2024_REPAIR HEAVY FLOOR SCALING & WALL DETERIORATION

*****UTILITY ATTACHMENTS*****

<i>UTILITY</i>	<i>OWNER</i>	<i>METHOD</i>	<i>MEASUREMENT TYPE</i>	<i>VALUE</i>	<i>NUMBER</i>	<i>UTILITY ATTACHMENT COMMENT</i>
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*****PROGRAM NOTES INFORMATION*****

<u>YEAR</u>	<u>PROJECT #</u>	<u>MONTH LET</u>	<u>YEAR LET</u>	<u>ITEMS</u>	<u>COMMENT</u>
2026	J613618	0	0	REHAB	(MOLINJ1, 09/29/2022)--REPAIR CULVERT WALLS AND POUR FLOOR SLAB OVERLAY

*****COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS*****

NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.

<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>
[Item 67] Structure Evaluation Rating:	4-MEETS MINIMUM TOLERABLE	3/2/2016
[Item 68] Deck Geometry Rating:	N-NOT APPLICABLE	5/18/2001
[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001
Sufficiency Rating:	44.7%	2/22/2022
Deficiency:	NOT DEFICIENT	11/17/2022
Funding Eligibility:		----
Estimated New Structure Length:		----
Estimated Structure Cost:		----
Estimated Total Project Cost:		----
Year of Cost Estimate:		----

NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.

*****ADVANCED SIGN INFORMATION*****

<u>SIGN #</u>	<u>SIGN TYPE</u>	<u>PROBLEM</u>	<u>PROBLEM DIRECTION</u>
1			

*****OUTFALL INSPECTION INFORMATION*****

# OUTFALLS: 13	INSPECTOR: JOSEPH MOLINARO
STATUS: FAIL	DATE: 11/03/2022
NOTES: FAIL:#2 - PIPE @ SE WINGWALL. #3 - PIPE @ W. WALL_300' FROM PORTAL. #4 - CMP @ W. WALL FROM #3. #11 - CLAY @ E WALL 250' FROM N. #12 - RCP 300' FROM S. #13 - RCP 100' FROM S. PAS PAVED DITCH @ SW_50' FROM END OF WING. #5 - CURB INLET @ W BARREL N END. #6 - RCP @	



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