



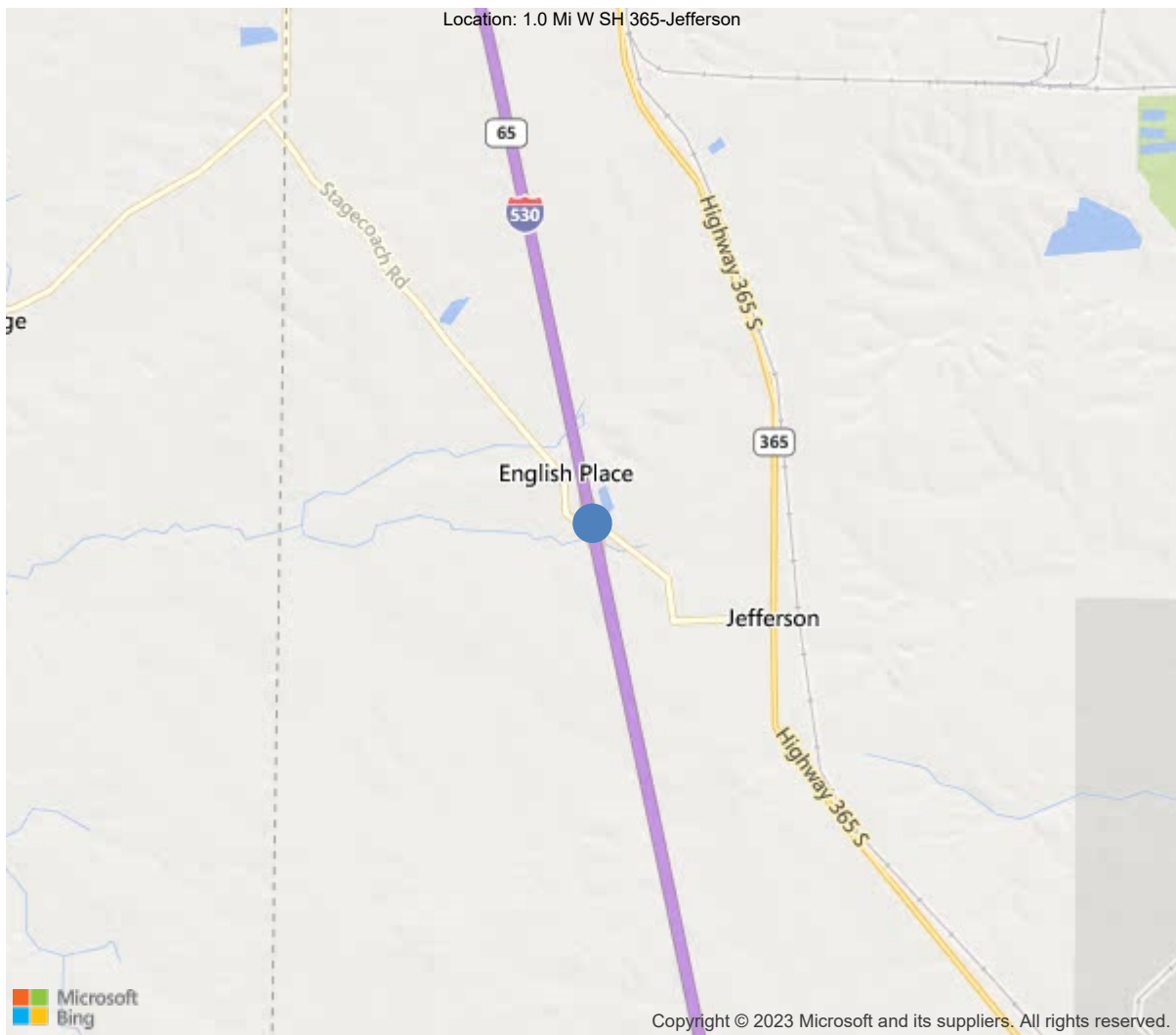
Latitude:34.38719, Longitude:-92.18188

Route:530 Section:05 Log:23.76

Arnold Road ID:35x530x5xB, Arnold Log mile:22.789

District 02, 69 - Jefferson County

Owner: 1 - State Highway Agency



34.38719, -92.18188



Asset #B5612(Routine)

I-530 NB LM 23.76 over CR 117 (Jefferson)

Location: 1.0 Mi W SH 365-Jefferson

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	B5612
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	69 - Jefferson County
(4) Place Code	0
(6) Features Intersected	CR 117 (Jefferson)
(7) Facility Carried	I-530 NB LM 23.76
(9) Location	1.0 Mi W SH 365-Jefferson
(11) Mile Point	23.76 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000530050
(16) Latitude	34.38719
(17) Longitude	-92.18188
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4 - Steel continuous
Type	2 - Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(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	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1975
(106) Year Reconstructed	0
(42) Type of Service	11
On	1 - Highway
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	12488
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	62 ft
(49) Structure Length	147 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	39 ft
(52) Deck Width Out to Out	42 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	30 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	39 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	15.91 ft
Ref:	
(55) Min Lat Underclear RT	16 ft
Ref:	
(56) Min Lat Underclear LT	15 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(111) Pier Protection	5 - None present but re-evalua
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	1
(26) Functional Class	1 - Rural Principal Arterial -
(100) Defense Highway	1 - The inventory route is on
(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	1 - The inventory route is par
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	60
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	36
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	7
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	7
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	12667
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	02/14/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.</p>			



Asset #B5612(Routine)

District: 02, County: 69 - Jefferson County

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

General Observation

Bridge is logged from north to south (from Little Rock - I-30 junction). Underroute (CR 117) is logged from northwest to southeast.

Form IIIB for under clearance attached to this report. SDH 1/12/16.

A-46 - Asset Files

-



Asset #B5612(Routine)

I-530 NB LM 23.76 over CR 117 (Jefferson)

Location: 1.0 Mi W SH 365-Jefferson

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6048	4789	698	561	0
1080	Delamination/Spall/Patched Area	SF	7	0	6	1	0
1090	Exposed Rebar	SF	1	0	1	0	0
1120	Efflorescence/Rust Staining	SF	13	0	13	0	0
1130	Cracking (RC and Other)	SF	1238	0	678	560	0
(12) Deck: 42' wide x 144' long = 6048 sqft. All spans: Unsealed, moderate-sized transverse cracks up to 50 thousands of an inch (little or no reflective efflorescence on soffit) - approximately 6-10' intervals, mainly in left (outside) lane with a couple small spalls in Span 1. Span 2 right lane: 1' concrete patched area and a very small spall with exposed rebar. Deck overhangs: Some cracking with efflorescence - 5' intervals.							
107	Steel Open Girder/Beam	LF	720	710	10	0	0
1000	Corrosion	LF	10	0	10	0	0
515	Steel Protective Coating	SF	5306	3622	1610	74	0
3420	Peeling/Bubbling/Cracking	LF	1073	0	1073	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	611	0	537	74	0
(107) Girders: 5 (continuous) per span / Spans 1-3 (41' - 62' - 41' = 144' total span). Coating (W30x99): 7.37 square feet per linear feet of girder. Girder 1: Very minor traffic impact damage (small nick & scratch) over eastbound lane. Coating: A few scattered areas beginning to flake and peel, mainly exterior of outer girders. Remaining areas are dull and paint has no luster. Surface corrosion is beginning to form in a few small places where paint coverage is thin.							
205	Reinforced Concrete Column	EA	6	6	0	0	0
(205) Columns: 3 per bent / Bents 2 & 3.							
215	Reinforced Concrete Abutment	LF	122	22	35	65	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1120	Efflorescence/Rust Staining	LF	15	0	0	15	0
1130	Cracking (RC and Other)	LF	83	0	33	50	0
(215) Abutments: 45'-0 3/8" = 46' each (skewed - plus approximately 15' wings/total each bent) / Bents 1 & 4. Abutment - Bent 1: Spalling on top with large cracking. State 3 cracking on face at each end. Efflorescence and map cracking near all girders on interior face. Abutment - Bent 4: Moderate map cracking on face.							
234	Reinforced Concrete Pier Cap	LF	86	85	1	0	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0

Team Lead: Sharon Hooks, **Inspection Date:** 02/14/2022

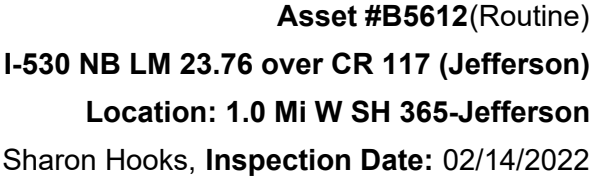
ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(234) Caps: 43' each (skewed) / Bents 2 & 3. Bent 2 cap right over column 3 has crack.							
302	Compression Joint Seal	LF	96	8	0	32	56
2330	Seal Damage	LF	56	0	0	0	56
2340	Seal Cracking	LF	32	0	0	32	0
2360	Adjacent Deck or Header	LF	0	0	0	0	0
(302) Joints: 48' each (skewed) / Bents 1 & 4. Bent 1- Joint material is allowing stormwater to leak through due to heavy damage. Still partially in place. Bent 4 - Joint material has moderate cracking on entire length with heavier damage on inside lane.							
311	Movable Bearing	EA	15	5	7	3	0
1000	Corrosion	EA	10	0	7	3	0
515	Steel Protective Coating	SF	45	15	0	30	0
3440	Effectiveness (Steel Protective Coatings)	EA	30	0	0	30	0
(311) Movable bearings: 5 per bent / Bents 1, 2, & 4. Coating: 3 square feet each. Bearing 2 @ Bent 4: Anchor bolt broke off on right side. Bearing 5 @ Bent 1: Anchor nut missing on right side. Bent 1 & 4 bearings are have light corrosion with some pack rust between rockers and masonry plates.							
313	Fixed Bearing	EA	5	5	0	0	0
515	Steel Protective Coating	SF	15	15	0	0	0
(313) Fixed bearings: 5 per bent / Bent 3. Coating: 3 square feet each.							
321	Reinforced Concrete Approach Slab	SF	1920	1920	0	0	0
1130	Cracking (RC and Other)	SF	0	0	0	0	0
(321) Approach slabs: 1920 square feet /Bents 1 (24' wide x 37' long) & 4 (24'wide x 43' long). Bent 4 - joint adjacent to approach slab: Pourable joint filler has failed and had left a couple gaps, allowing stormwater to leak through. NOTE: Approach slabs has been replaced under construction projects.							
330	Metal Bridge Railing	LF	294	294	0	0	0
515	Steel Protective Coating	SF	623	623	0	0	0
(330) Railing: 147' each side. Coating: 2.12 square feet per linear feet of railing. Concrete curb topped with metal railing.							
331	Reinforced Concrete Bridge Railing	LF	294	294	0	0	0
(331) Railing: 147' each side. Concrete curb topped with metal railing.							

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6048	4789	698	561	0
1080	Delamination/Spall/Patched Area	SF	7	0	6	1	0
1090	Exposed Rebar	SF	1	0	1	0	0
1120	Efflorescence/Rust Staining	SF	13	0	13	0	0
1130	Cracking (RC and Other)	SF	1238	0	678	560	0
<p>(12) Deck: 42' wide x 144' long = 6048 sqft.</p> <p>All spans: Unsealed, moderate-sized transverse cracks up to 50 thousands of an inch (little or no reflective efflorescence on soffit) - approximately 6-10' intervals, mainly in left (outside) lane with a couple small spalls in Span 1.</p> <p>Span 2 right lane: 1' concrete patched area and a very small spall with exposed rebar.</p> <p>Deck overhangs: Some cracking with efflorescence - 5' intervals.</p>							

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	720	710	10	0	0
1000	Corrosion	LF	10	0	10	0	0
515	Steel Protective Coating	SF	5306	3622	1610	74	0
3420	Peeling/Bubbling/Cracking	LF	1073	0	1073	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	611	0	537	74	0
<p>(107) Girders: 5 (continuous) per span / Spans 1-3 (41' - 62' - 41' = 144' total span). Coating (W30x99): 7.37 square feet per linear feet of girder. Girder 1: Very minor traffic impact damage (small nick & scratch) over eastbound lane.</p> <p>Coating: A few scattered areas beginning to flake and peel, mainly exterior of outer girders. Remaining areas are dull and paint has no luster. Surface corrosion is beginning to form in a few small places where paint coverage is thin.</p>							



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	6	6	0	0	0
(205) Columns: 3 per bent / Bents 2 & 3.							
215	Reinforced Concrete Abutment	LF	122	22	35	65	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1120	Efflorescence/Rust Staining	LF	15	0	0	15	0
1130	Cracking (RC and Other)	LF	83	0	33	50	0
(215) Abutments: 45'-0 3/8" = 46' each (skewed - plus approximately 15' wings/total each bent) / Bents 1 & 4. Abutment - Bent 1: Spalling on top with large cracking. State 3 cracking on face at each end. Efflorescence and map cracking near all girders on interior face. Abutment - Bent 4: Moderate map cracking on face.							
234	Reinforced Concrete Pier Cap	LF	86	85	1	0	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
(234) Caps: 43' each (skewed) / Bents 2 & 3. Bent 2 cap right over column 3 has crack.							



Asset #B5612(Routine)

I-530 NB LM 23.76 over CR 117 (Jefferson)

Location: 1.0 Mi W SH 365-Jefferson

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Deck over view.



Bent 1 joint seal is torn and leaking.



Bent 1 at abutment has small spalls and cracking



Approach looking south.



Bent 1 abutment right has cracking with delam.



Bent 1 bearing 4 has corrosion common on all bearings.



Bent 1 abutment has some cracking and a minor delam.

Maintenance Needs

Date Reported: 01/18/2012

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Bearing 2 @ Bent 4: Anchor bolt broke off on right side.

Bearing 5 @ Bent 1: Anchor nut missing on right side.

02-20-2020 GGL-KLR: Changed priority from "G" to "D".

Remarks



Maintenance Needs

Date Reported: 01/18/2012

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Deck – all spans:

Unsealed, moderate-sized transverse cracks (little or no reflective efflorescence on soffit) - approximately 6-10' intervals, mainly in left (outside) lane with a couple small spalls in Span 1.

Span 2 right lane: 1' concrete patched area and a very small delamination

Remarks



Deck - Span 1: Cracking/spalling



Deck - Span 2 : Spalling



Deck - Span 2 : Cracking



Deck - Span 2 : Spalling

Maintenance Needs

Date Reported: 01/22/2018

Priority: D- Routine

Type of Work: Repair (General)

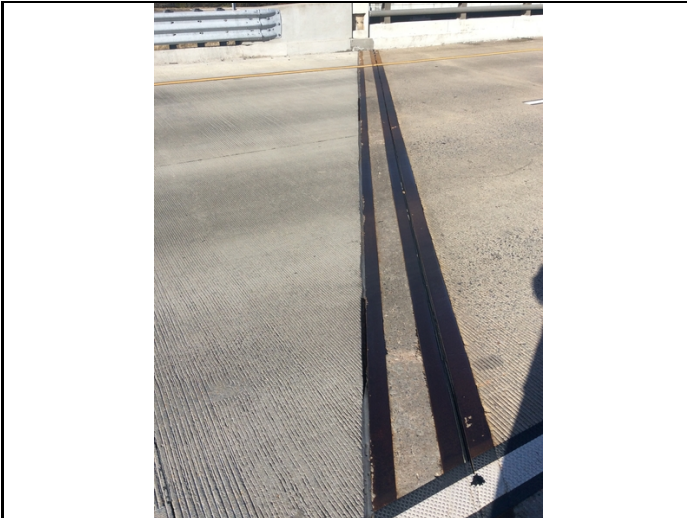
Status: Monitor

Component: Element

Deficiency Description

Bent 4 - joint adjacent to approach slab: Pourable joint filler has failed and had left a couple gaps, allowing stormwater to leak through.

Remarks



Bent 4 - Joint adjacent to approach slab: Loss of
adhesion



Asset #B5612(Routine)

I-530 NB LM 23.76 over CR 117 (Jefferson)

Location: 1.0 Mi W SH 365-Jefferson

Team Lead: Sharon Hooks, **Inspection Date:** 02/14/2022

Maintenance Needs

Date Reported: 01/22/2018

Priority: C - Important

Type of Work: Replace (General)

Status: Assigned

Component: Approach

Deficiency Description

Signs - Bent 4 left: No log mile sign - object marker and post in place.

Remarks



Roadway view



Asset #B5612(Routine)

I-530 NB LM 23.76 over CR 117 (Jefferson)

Location: 1.0 Mi W SH 365-Jefferson

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	



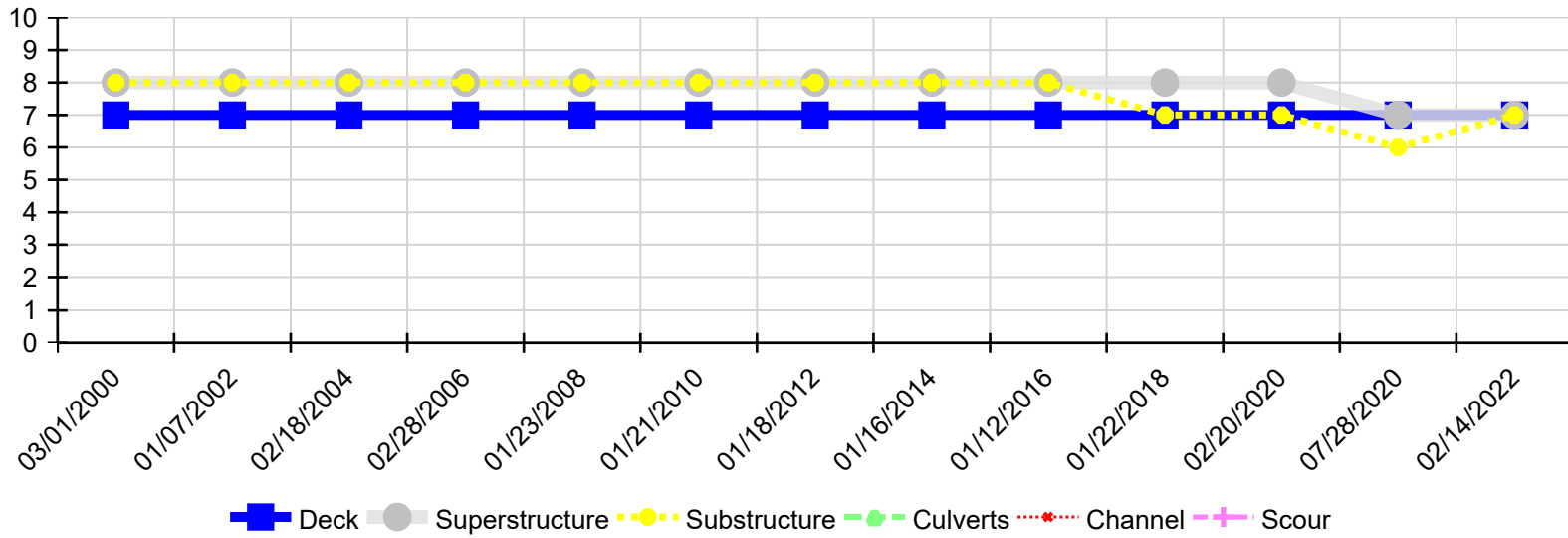
Asset #B5612(Routine)

I-530 NB LM 23.76 over CR 117 (Jefferson)

Location: 1.0 Mi W SH 365-Jefferson

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/14/2022	7	7	7	N	N	N
07/28/2020	7	7	6	N	N	N
02/20/2020	7	8	7	N	N	N
01/22/2018	7	8	7	N	N	N
01/12/2016	7	8	8	N	N	N
01/16/2014	7	8	8	N	N	N
01/18/2012	7	8	8	N	N	N
01/21/2010	7	8	8	N	N	N
01/23/2008	7	8	8	N	N	N
02/28/2006	7	8	8	N	N	N
02/18/2004	7	8	8	N	N	N
01/07/2002	7	8	8	N	N	N
03/01/2000	7	8	8	N	N	N