



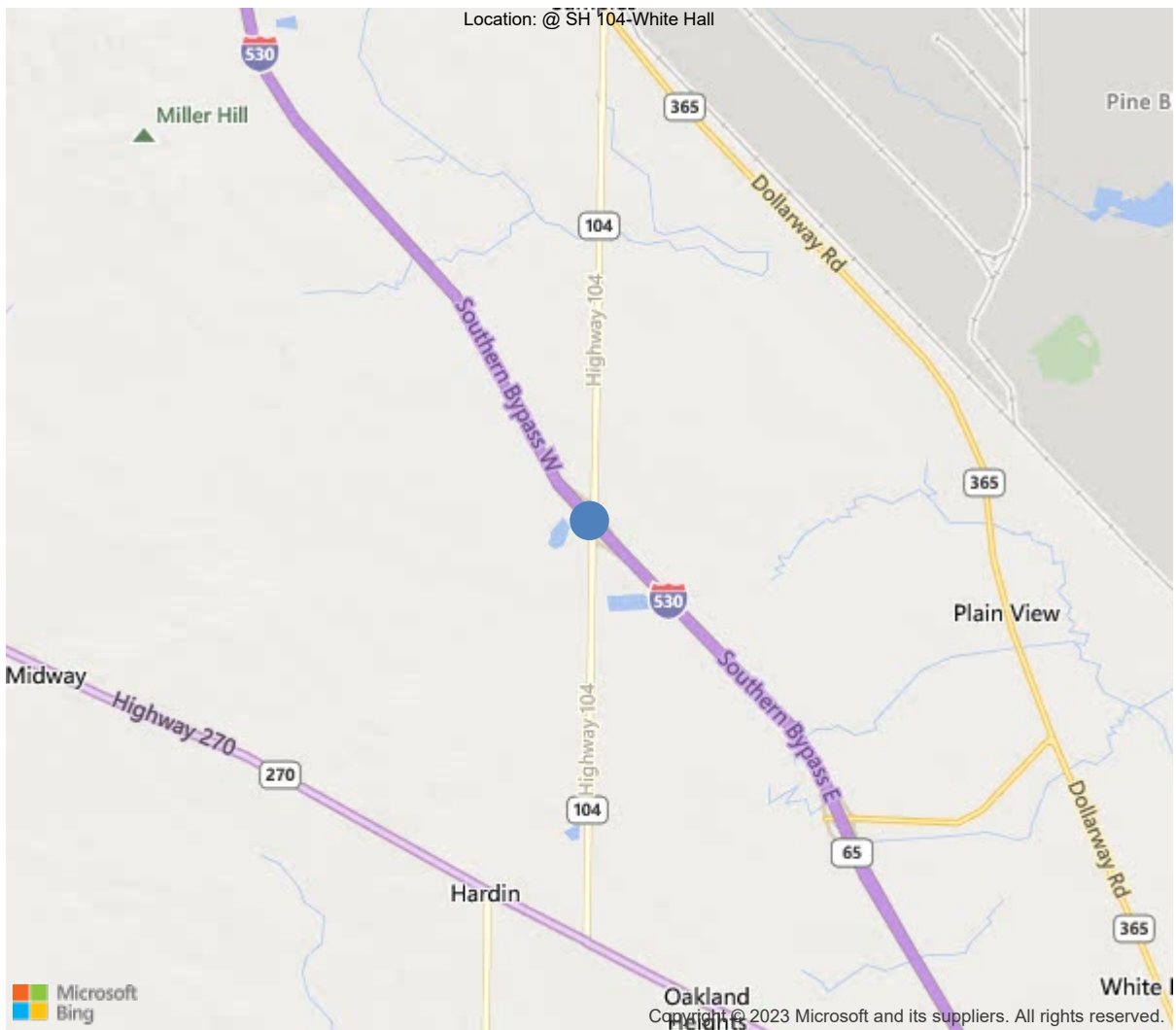
Latitude:34.30805, Longitude:-92.14107

Route:530 Section:05 Log:29.86

Arnold Road ID:35x530x5xA, Arnold Log mile:29.86

District 02, 69 - Jefferson County

Owner: 1 - State Highway Agency



34.30805, -92.14107



Asset #A5611 (Routine)

I-530 SB LM 29.86 over SH 104

Location: @ SH 104-White Hall

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A5611
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	69 - Jefferson County
(4) Place Code	0
(6) Features Intersected	SH 104
(7) Facility Carried	I-530 SB LM 29.86
(9) Location	@ SH 104-White Hall
(11) Mile Point	29.86 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000530050
(16) Latitude	34.30805
(17) Longitude	-92.14107
(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	3 - Latex Concrete or similar additive
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	10500
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	104 ft
(49) Structure Length	245 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	45 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	17.2 ft
Ref:	
(55) Min Lat Underclear RT	23.5 ft
Ref:	
(56) Min Lat Underclear LT	23.5 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	11 - Urban Principal Arterial
(100) Defense Highway	1 - The inventory route is on
(101) Parallel Structure	R - The right structure of par
(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	6
(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	6
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	9
(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	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	35 - Bridge rehabilitation bec
(76) Length of Structure Improvement	245 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 462
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	11400
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	09/14/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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.			



Asset #A5611(Routine)

District: 02, County: 69 - Jefferson County

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

General Observation

Bridge (I-530) is logged from northwest to southeast and is on the right side of two parallel structures.
SH 104 is logged from south to north.

Additional diaphragms added to satisfy load rating analysis for SS-105-02 MAH 10/31/16

A-46 - Asset Files

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Asset #A5611 (Routine)

I-530 SB LM 29.86 over SH 104

Location: @ SH 104-White Hall

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	10290	10022	136	132	0
1120	Efflorescence/Rust Staining	SF	192	0	60	132	0
1130	Cracking (RC and Other)	SF	76	0	76	0	0
(12) Deck: 42' wide x 242' long = 10,164 sqft.							
Span 1: Some hairline- to minor-sized longitudinal cracking over Girder 3 (20 sqft CS2). Soffit – all spans: Some transverse cracking with efflorescence (60 sqft CS2) with scattered cracking on overhang (132 sqft CS2).							
Deck was hydro-demo'ed and overlaid under contract prior to 2016 inspection. Deck has longitudinal and transverse cracking up to .015"							
Old notes. PREVIOUS NOTES FOLLOW: Scattered unsealed moderate- to large-sized transverse cracks with some light efflorescence on soffit, mainly over Bents 2 & 3 and on Span 2. (upto 0.060 inch) Span 3: Minor- to moderate-sized longitudinal crack near centerline.							
NOTE: Span 1 mid-span: Full depth patch between Girders 3 & 4. Some small patches in right (outside) lane over Bent 2.							
107	Steel Open Girder/Beam	LF	1210	1123	87	0	0
1000	Corrosion	LF	37	0	37	0	0
1010	Cracking	LF	50	0	50	0	0
515	Steel Protective Coating	SF	12342	9518	2449	375	0
3410	Chalking (Steel Protective Coatings)	LF	2449	0	2449	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	375	0	0	375	0
(107) Girders: 5 per span / Spans 1-3 (69' - 104' - 69' = 242' total). Coating: (12" wide x 43" tall) 10.2 square feet per linear feet of girder.							
Some minor surface rust beginning on top flanges, concentrated near cracks in soffit. The outside of both outer girders have fading and chalky paint.							
NOTE: Span 2 Girder 1 @ Bent 3: Web of girder is out of plumb (approximately 1"/4' - bottom to the right) (as-built condition?). Span 2: Cracking in webs of girders was repaired in 2003.							
205	Reinforced Concrete Column	EA	6	6	0	0	0
(205) Columns: 3 per bent / Bents 2 & 3.							
215	Reinforced Concrete Abutment	LF	120	68	13	39	0
1080	Delamination/Spall/Patched Area	LF	7	0	0	7	0
1130	Cracking (RC and Other)	LF	45	0	13	32	0



Asset #A5611 (Routine)

I-530 SB LM 29.86 over SH 104

Location: @ SH 104-White Hall

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(215) Abutments: 55'-3" = 56' each (skewed - with approximately 12' wings on each bent) / Bents 1 & 4. Bent 1: Some minor-sized cracking across top of backwall (13' CS2). Bent 4: Some cracking with spalls across top of backwall (40' CS3).							
234	Reinforced Concrete Pier Cap	LF	114	100	14	0	0
1130	Cracking (RC and Other)	LF	14	0	14	0	0
(234) Caps: 57' each / Bents 2 & 3. Bent 2 and 3 cap have some vertical hairline cracks forming near steps.							
301	Pourable Joint Seal	LF	114	85	25	0	4
2310	Leakage	LF	10	0	10	0	0
2320	Seal Adhesion	LF	15	0	15	0	0
7000	Damage	LF	4	0	0	0	4
(301) Joint : 57' each (skewed) / Bents 1 & 4. Bents 1: Pourable joint material is beginning to lose adhesion in various locations. Several areas of material appear thin and some small holes are beginning to show through.							
311	Movable Bearing	EA	15	5	0	10	0
1000	Corrosion	EA	9	0	0	9	0
1020	Connection	EA	1	0	0	1	0
515	Steel Protective Coating	SF	30	10	0	20	0
3440	Effectiveness (Steel Protective Coatings)	EA	20	0	0	20	0
(311) Moveable bearings: 5 per bent / Bents 1, 2, & 4. Coating: 2.0 square feet each. Bearings - Bents 1 & 4: Surface rust with some flaking and peeling of paint, especially at the masonry plate. Bent 1 Bearing 2: Nut missing off anchor bolt on left side. Bent 1 Bearing 5: Anchor bolt rusted through on left side. Bent 4 Bearing 5 left: Bolt corroded and worked out.							
313	Fixed Bearing	EA	5	5	0	0	0
515	Steel Protective Coating	SF	10	10	0	0	0
(313) Fixed bearings: 5 per bent / Bent 3. Coating: 2.0 square feet each.							
321	Reinforced Concrete Approach Slab	SF	1680	1648	32	0	0
1080	Delamination/Spall/Patched Area	SF	4	0	4	0	0
1130	Cracking (RC and Other)	SF	28	0	28	0	0
(321) Approach slabs: (24' wide x 35' long) 840 square feet each / Bents 1 & 4. Bent 4: One transverse crack / a couple unsealed minor-sized transverse/diagonal cracks close to bridge, mainly on left (inner) lane (28 sqft CS2). Bent 4 right: Spalling/potholes at approach slab/back-wall joint - at right (outer) edge line).							
330	Metal Bridge Railing	LF	490	490	0	0	0
515	Steel Protective Coating	SF	1176	1176	0	0	0

Team Lead: Sharon Hooks, **Inspection Date:** 09/14/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	(330) Railing: 245' each side. Coating: 2.4 square feet per linear feet of railing. Concrete curb topped with metal railing.						
331	Reinforced Concrete Bridge Railing	LF	490	490	0	0	0
	(331) Railing: 245' each side. Concrete curb topped with metal railing.						

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	10290	10022	136	132	0
1120	Efflorescence/Rust Staining	SF	192	0	60	132	0
1130	Cracking (RC and Other)	SF	76	0	76	0	0
(12) Deck: 42' wide x 242' long = 10,164 sqft.							
Span 1: Some hairline- to minor-sized longitudinal cracking over Girder 3 (20 sqft CS2).							
Soffit – all spans: Some transverse cracking with efflorescence (60 sqft CS2) with scattered cracking on overhang (132 sqft CS2).							
Deck was hydro-demo'ed and overlaid under contract prior to 2016 inspection.							
Deck has longitudinal and transverse cracking up to .015"							
Old notes.							
PREVIOUS NOTES FOLLOW:							
Scattered unsealed moderate- to large-sized transverse cracks with some light efflorescence on soffit, mainly over Bents 2 & 3 and on Span 2. (upto 0.060 inch)							
Span 3: Minor- to moderate-sized longitudinal crack near centerline.							
NOTE: Span 1 mid-span: Full depth patch between Girders 3 & 4.							
Some small patches in right (outside) lane over Bent 2.							

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	1210	1123	87	0	0
1000	Corrosion	LF	37	0	37	0	0
1010	Cracking	LF	50	0	50	0	0
515	Steel Protective Coating	SF	12342	9518	2449	375	0
3410	Chalking (Steel Protective Coatings)	LF	2449	0	2449	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	375	0	0	375	0
<p>(107) Girders: 5 per span / Spans 1-3 (69' - 104' - 69' = 242' total). Coating: (12" wide x 43" tall) 10.2 square feet per linear feet of girder.</p> <p>Some minor surface rust beginning on top flanges, concentrated near cracks in soffit. The outside of both outer girders have fading and chalky paint.</p> <p>NOTE: Span 2 Girder 1 @ Bent 3: Web of girder is out of plumb (approximately 1 1/4' - bottom to the right) (as-built condition?). Span 2: Cracking in webs of girders was repaired in 2003.</p>							



Asset #A5611(Routine)

I-530 SB LM 29.86 over SH 104

Location: @ SH 104-White Hall

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Bent 1 joint seal has loss of adhesion and is leaking.



Span 2 near center line has longitudinal cracking in deck.



South end of approach slab has moderate cracking.



Bent 4 bearing 3 has heavy flaking corrosion.



Bent 3 cap right behind has moderate sizes cracking



Under view of old repairs and cracking with efflorescence on soffit areas of deck.



Bent 2 cap right back over column 3 has moderate cracking.



Bent 1 bearing 5 has heavy flaking rust.



Under view.



Span 1 girder 1 has peeling paint and some rust in areas on bottom flange.



Bent 1 joint seal has small holes and seals and are leaking.



Deck over view.



Approach.

Maintenance Needs

Date Reported: 10/24/2012

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Monitor

Type of Work: Repair (General)

Component: Element

Deficiency Description

Bent 1 Bearing 2: Nut missing off anchor bolt on left side.

Remarks



Bent 1 Bearing 2 (anchor nut missing)

Maintenance Needs

Date Reported: 09/11/2018

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Approach

Deficiency Description

Approach slab/abutment - Bent 4 right: Spalling/potholes at approach slab/back-wall joint - at right (outer) edge line).

Remarks



Bent 4 at end of header and approach slabs has spalls in concrete.



Bent 4 approach slab has potholes near joint armor .



Approach slab - Bent 4 right: Spalling/potholes

Maintenance Needs

Date Reported: 09/11/2018

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Approach

Deficiency Description

Approach roadway slope - Bent 1 right: Some slope erosion at end of gutter - approximately halfway down side slope.

Remarks



Approach roadway - Bent 1 right: Slope erosion



Approach roadway - Bent 1 right: Slope erosion



Approach roadway slope - Bent 1 right: Erosion

Maintenance Needs

Date Reported: 09/11/2018

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Bearings – Bents 1 & 4: Surface rust with some flaking and peeling of paint, especially at the masonry plate.

Remarks



Bent 4 bearing 4 flaking rust common on bent 1 & 4 .



Bent 4 Bearing 1 (corrosion)



Bent 1 Bearing 5 (anchor bolt rusted away)



Bent 1 Bearing 2 (anchor nut missing)



Bent 1 bearing 5 has heavy flaking rust and anchor bolt rusting away,

Maintenance Needs

Date Reported: 10/04/2016

Priority: C - Important

Type of Work: Repair (General)

Status: Assigned

Component: Element

Deficiency Description

Bent 1 Bearing 5: Anchor bolt rusted through on left side.

Bent 4 Bearing 5: Bolt corroded and worked out on left side.

NOTE: Anchor bolts need to be in place to restrict lateral movement.

Remarks

work this in a quick as you can



Bent 1 Bearing 5 (anchor bolt rusted away)



Bent 1 bearing 5 has heavy flaking rust and anchor bolt rusting away,



Bent 4 Bearing 5 left: Bolt corroded and worked out



Asset #A5611(Routine)

I-530 SB LM 29.86 over SH 104

Location: @ SH 104-White Hall

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

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	



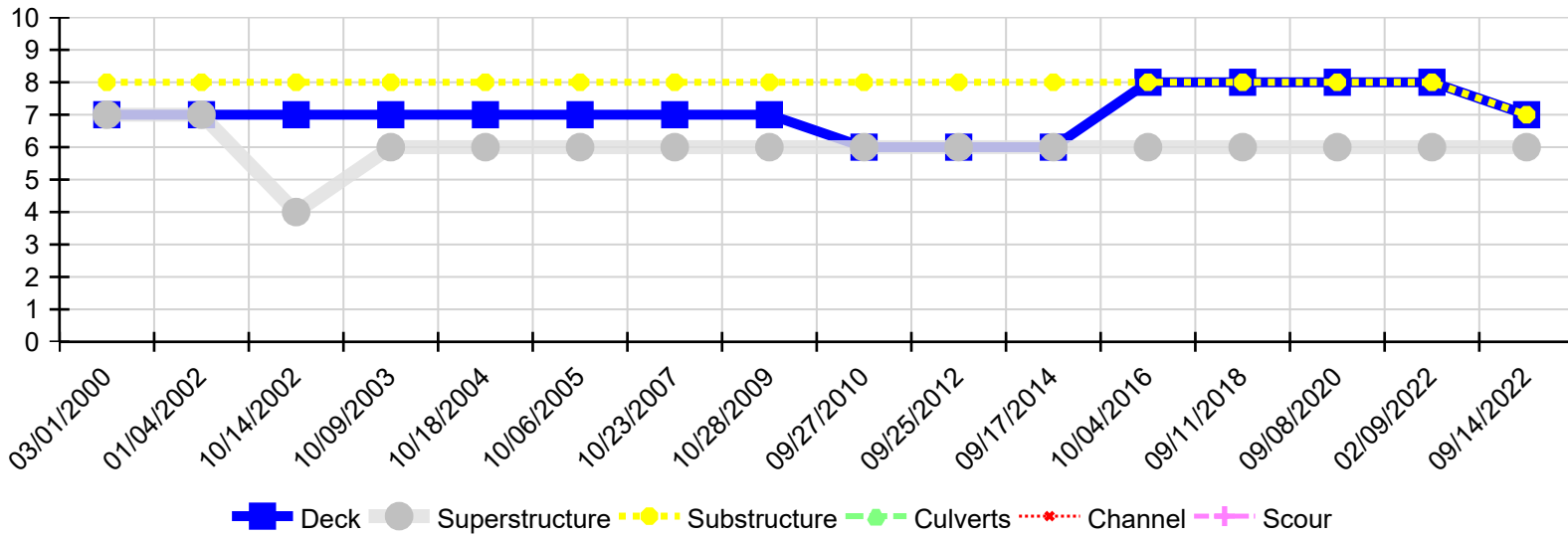
Asset #A5611(Routine)

I-530 SB LM 29.86 over SH 104

Location: @ SH 104-White Hall

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/14/2022	7	6	7	N	N	N
02/09/2022	8	6	8	N	N	N
09/08/2020	8	6	8	N	N	N
09/11/2018	8	6	8	N	N	N
10/04/2016	8	6	8	N	N	N
09/17/2014	6	6	8	N	N	N
09/25/2012	6	6	8	N	N	N
09/27/2010	6	6	8	N	N	N
10/28/2009	7	6	8	N	N	N
10/23/2007	7	6	8	N	N	N
10/06/2005	7	6	8	N	N	N
10/18/2004	7	6	8	N	N	N
10/09/2003	7	6	8	N	N	N
10/14/2002	7	4	8	N	N	N
01/04/2002	7	7	8	N	N	N
03/01/2000	7	7	8	N	N	N