

Bridge Inspection Report

B5022

I-30-13-52.97 E.B.

over

LITTLE MISSOURI RIVER



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

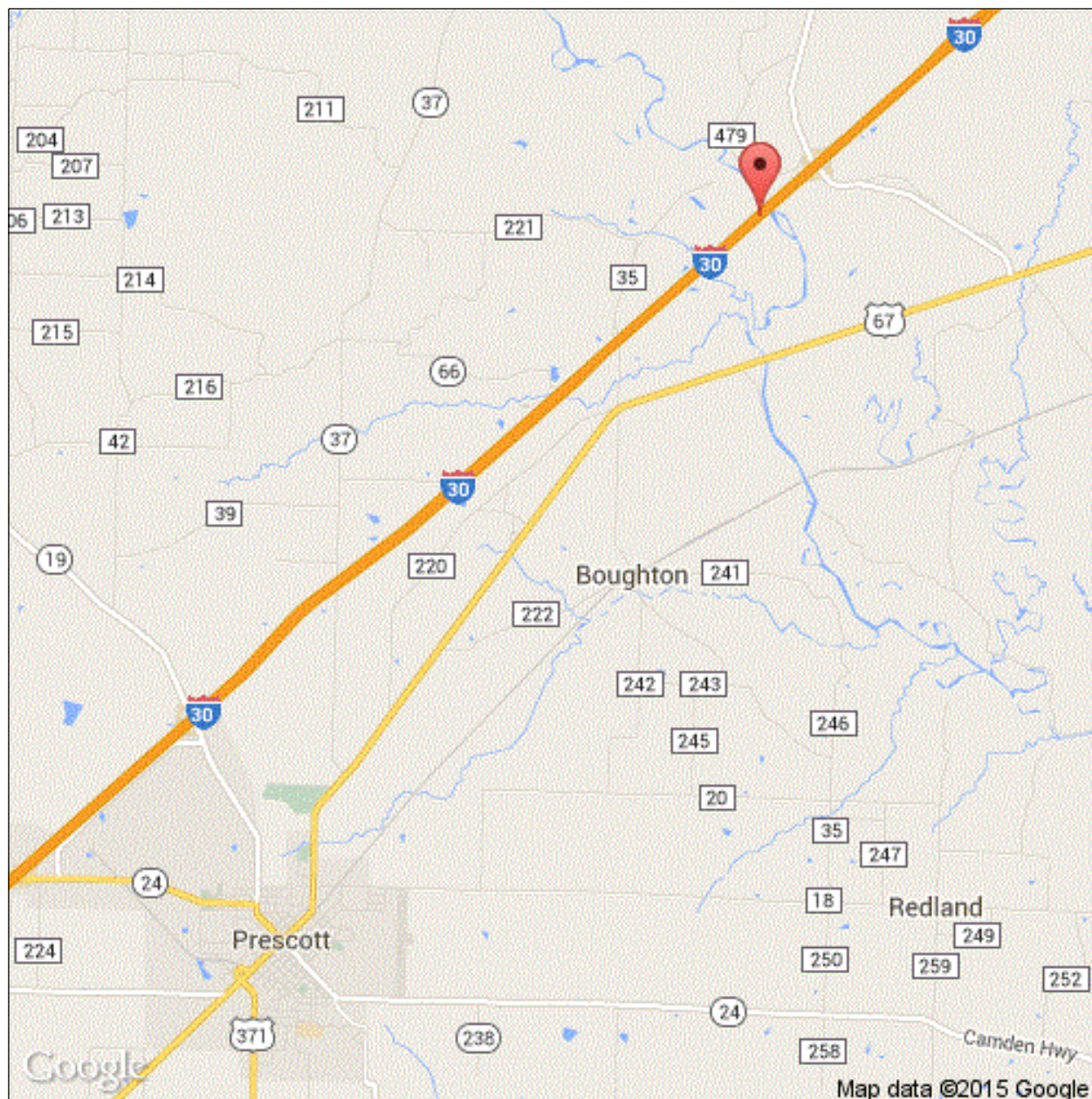
Structure Number: B5022

Inspection Date:

Facility Carried: I-30-13-52.97 E.B.

Bridge Inspection Report

Location Map



Latitude: 33.89696

Longitude: -93.30544

Inspector:

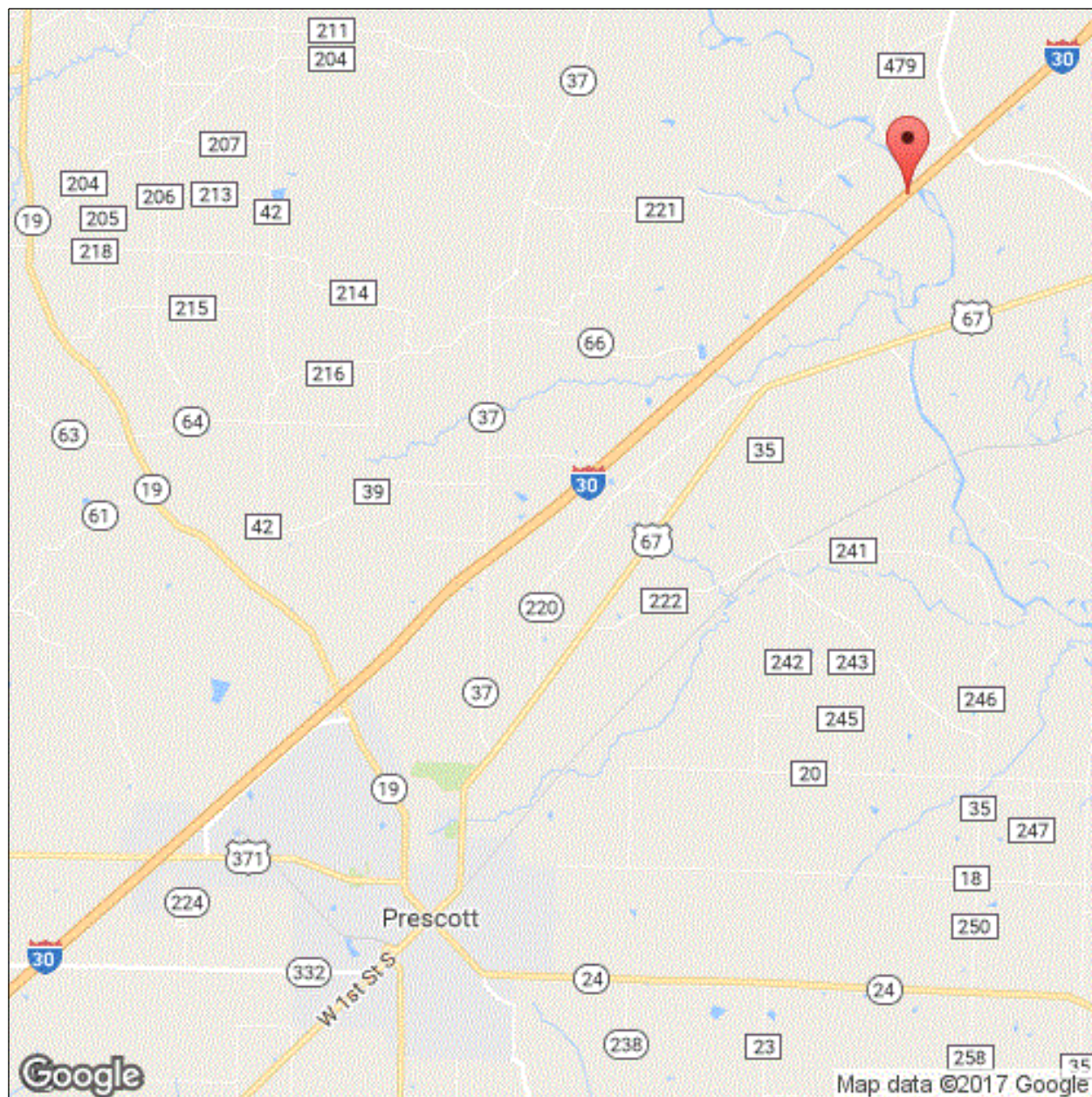
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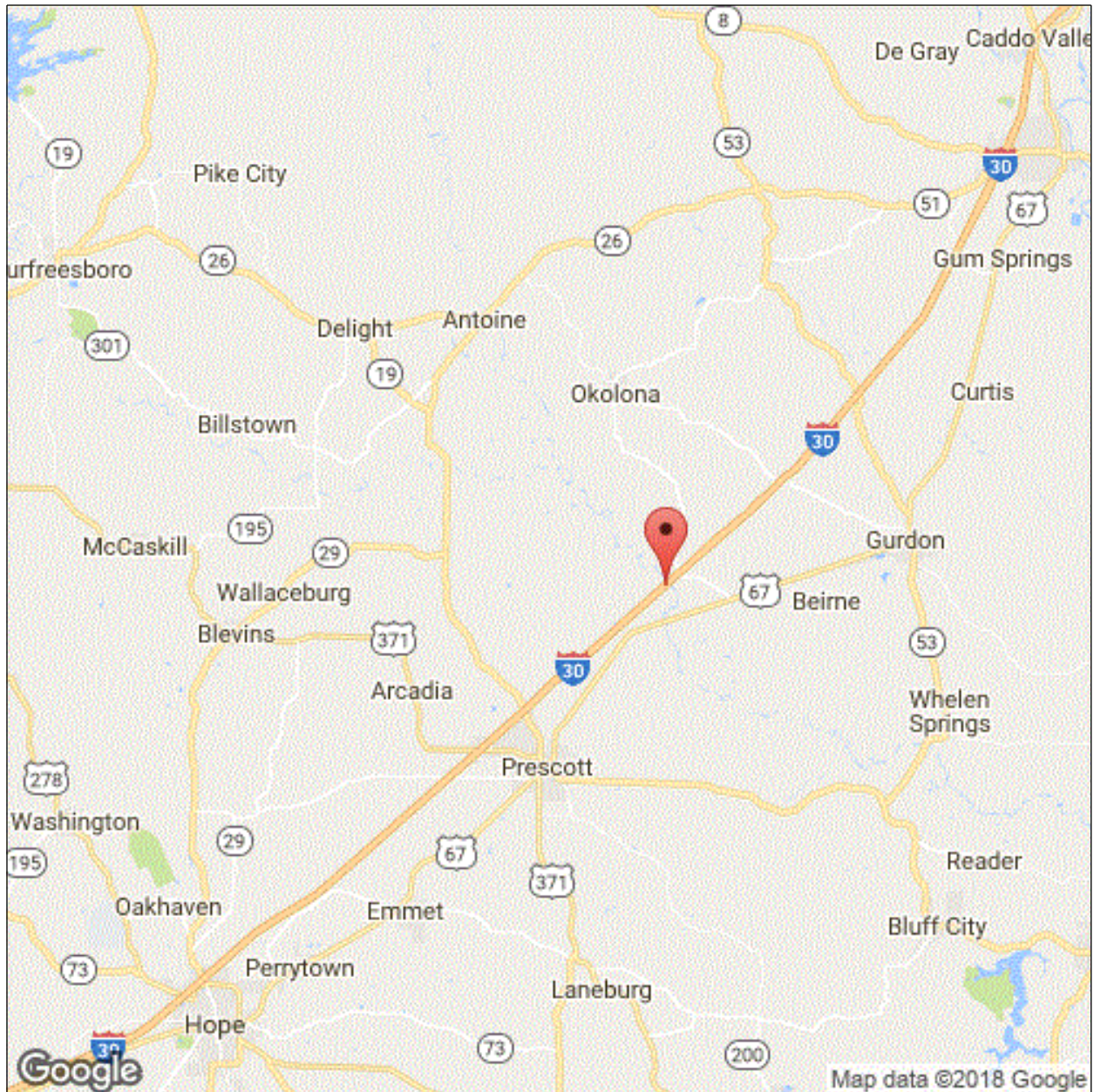
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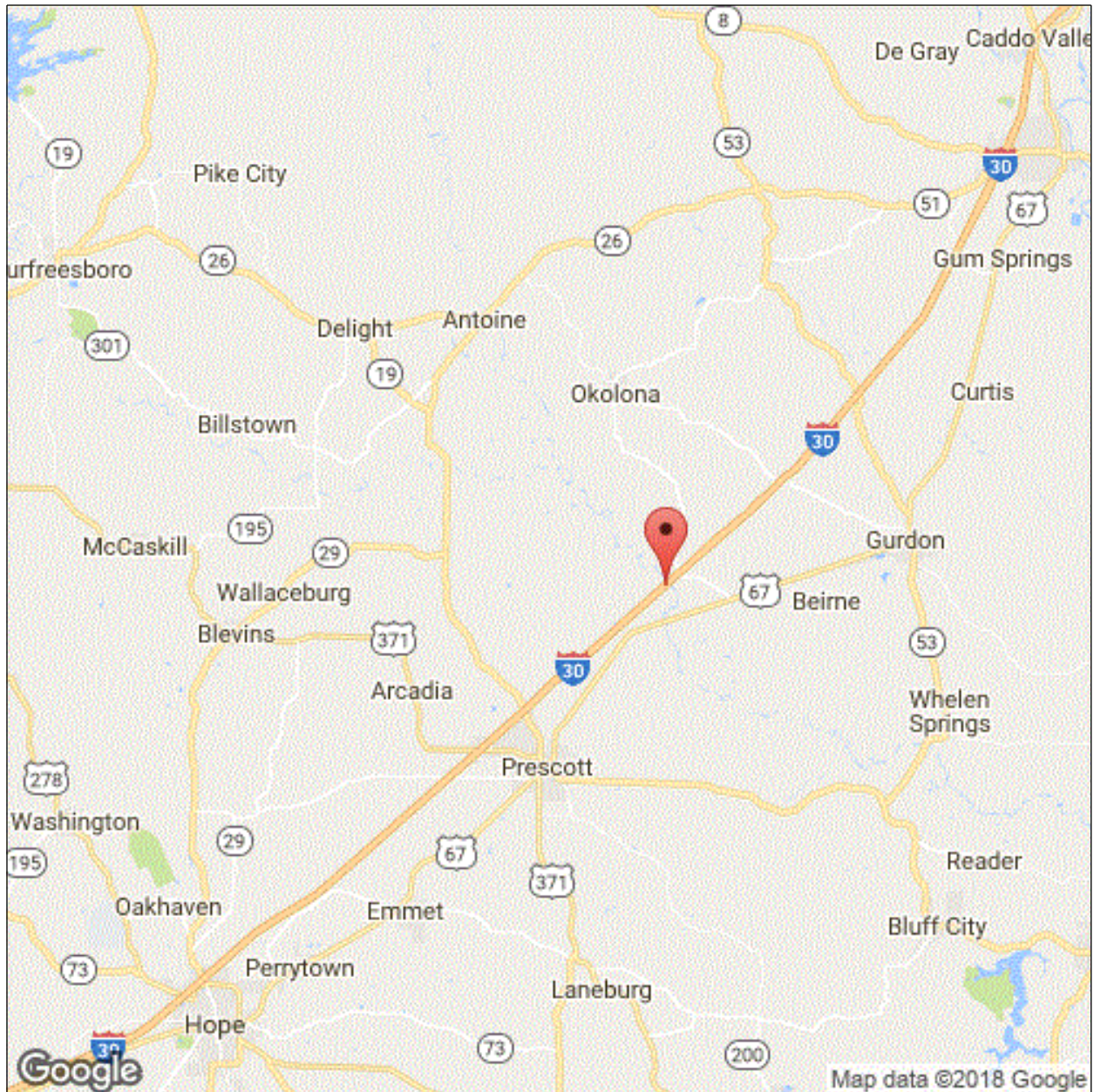
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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/20/2018
(8) STRUCTURE NUMBER	B5022	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 30 2	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	03 (3) COUNTY CODE 099	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	LITTLE MISSOURI RIVER	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-30-13-52.97 E.B.		
(9) LOCATION	0.1 MI SO CLARK CO LINE		
(11) MILEPOINT 52.970	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000030130 (13B) SUBROUTE NUMBER 30		
(16) LATITUDE 33.89696	(17) LONGITUDE -93.30544		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE 6	(60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION 7	(62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 1 - Concrete			
B) TYPE OF DESIGN/CONSTR: 01 - Slab			
(45) NUMBER OF SPANS IN MAIN 3	(46) NUMBER OF APPROACH 24		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 2		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 1		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1967	(106) YEAR RECONSTRUCTED 1991	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 27000	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36.0
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 80	(49) STRUCTURE LENGTH (ft.) 960	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 43		(71) WATERWAY ADEQUACY	6
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 41.3		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING 95.5	STATUS 0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	R
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 16327	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	0
		(111) PIER OR ABUTMENT PROTECTION	1
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

Structure Number: B5022

Inspection Date:

Facility Carried: I-30-13-52.97 E.B.

Bridge Inspection Report

Element Inspection

Rollup

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	10320	sq. ft.	9402	918	0	0
1080 - Delamination/Spall/Patched Area		78		0	78	0	0
1130 - Cracking (RC and Other)		840		0	840	0	0
510 - Wearing Surfaces		9600	sq. ft.	9600	0	0	0
38 - Reinforced Concrete Slab	1- Ben.	30960	sq. ft.	22573	719	7668	0
1080 - Delamination/Spall/Patched Area		598		0	224	374	0
1090 - Exposed Rebar		7		0	0	7	0
1120 - Efflorescence/Rust Staining		495		0	495	0	0
1130 - Cracking (RC and Other)		7287		0	0	7287	0
107 - Steel Open Girder/Beam	1- Ben.	1680	ft.	1680	0	0	0
515 - Steel Protective Coating		16396	sq. ft.	16396	0	0	0
202 - Steel Column	1- Ben.	9	each	9	0	0	0
205 - Reinforced Concrete Column	1- Ben.	8	each	8	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	102	ft.	102	0	0	0
226 - Prestressed Concrete Pile	1- Ben.	178	each	177	1	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	1118	ft.	1007	3	108	0
1080 - Delamination/Spall/Patched Area		67		0	0	67	0
1090 - Exposed Rebar		41		0	0	41	0
1130 - Cracking (RC and Other)		3		0	3	0	0
235 - Timber Pier Cap	1- Ben.	44	ft.	38	0	6	0
1140 - Decay/Section Loss		6		0	0	6	0
302 - Compression Joint Seal	1- Ben.	172	ft.	172	0	0	0
311 - Movable Bearing	1- Ben.	21	each	21	0	0	0
515 - Steel Protective Coating		94	sq. ft.	94	0	0	0
3410 - Chalking (Steel Protective Coatings)		0		0	0	0	0
313 - Fixed Bearing	1- Ben.	21	each	21	0	0	0
515 - Steel Protective Coating		94	sq. ft.	94	0	0	0
3410 - Chalking (Steel Protective Coatings)		0		0	0	0	0
321 - Reinforced Concrete Approach Slab	1- Ben.	1728	sq. ft.	136	1592	0	0
1130 - Cracking (RC and Other)		728		0	728	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	1920	ft.	1920	0	0	0

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Bridge Inspection Report

Element Inspection

Approach

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	30960	sq. ft.	22573	719	7668	0
1080 - Delamination/Spall/Patched Area		598			224	374	
1090 - Exposed Rebar		7				7	
1120 - Efflorescence/Rust Staining		495			495		
1130 - Cracking (RC and Other)		7287				7287	
202 - Steel Column	1- Ben.	9	each	9			
FALSE BENT ADDED IN 2003 DRAWINGS HAVE A 3 FT THICK FOOTING							
215 - Reinforced Concrete Abutment	1- Ben.	102	ft.	102			
226 - Prestressed Concrete Pile	1- Ben.	154	each	154			
234 - Reinforced Concrete Pier Cap	1- Ben.	946	ft.	850	0	96	0
1080 - Delamination/Spall/Patched Area		60				60	
1090 - Exposed Rebar		36				36	
235 - Timber Pier Cap	1- Ben.	44	ft.	38	0	6	0
FALSE BENT ADDED IN 2003 DECAYED ENDS OF TIMBER EST. ABOUT 3 FT ON RT AND LT SIDE SEE DRAWINGS 02/20/2018							
1140 - Decay/Section Loss		6				6	
321 - Reinforced Concrete Approach Slab	1- Ben.	1728	sq. ft.	136	1592	0	0
West approach slab in the east bound lane has 1-1/2" settlement							
1130 - Cracking (RC and Other)		728			728		
4000 - Settlement		864			864		
331 - Reinforced Concrete Bridge Railing	1- Ben.	1440	ft.	1440			

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Bridge Inspection Report

Element Inspection

Main

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	10320	sq. ft.	9402	918	0	0
2.5" concrete overlay							

1080 - Delamination/Spall/Patched Area		78			78		
1130 - Cracking (RC and Other)		840			840		
510 - Wearing Surfaces		9600	sq. ft.	9600			
107 - Steel Open Girder/Beam	1- Ben.	1680	ft.	1680			
515 - Steel Protective Coating		16396	sq. ft.	16396			
205 - Reinforced Concrete Column	1- Ben.	8	each	8			
226 - Prestressed Concrete Pile	1- Ben.	24	each	23	1		
1110 - Cracking (PSC)		1			1		
234 - Reinforced Concrete Pier Cap	1- Ben.	172	ft.	157	3	12	0
1080 - Delamination/Spall/Patched Area		7				7	
1090 - Exposed Rebar		5				5	
1130 - Cracking (RC and Other)		3			3		
302 - Compression Joint Seal	1- Ben.	172	ft.	172			
311 - Movable Bearing	1- Ben.	21	each	21			
bearing in cond 1 for paint some chalking							

515 - Steel Protective Coating		94	sq. ft.	94	0	0	0
3410 - Chalking (Steel Protective Coatings)							
313 - Fixed Bearing	1- Ben.	21	each	21			
bearing in cond 1 for paint some chalking							

515 - Steel Protective Coating		94	sq. ft.	94	0	0	0
3410 - Chalking (Steel Protective Coatings)							
331 - Reinforced Concrete Bridge Railing	1- Ben.	480	ft.	480			

Inspector:

Inspection Date:

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: B5022

Inspection Date:

Facility Carried: I-30-13-52.97 E.B.

Bridge Inspection Report

Maintenance Needs

Date Reported: 7/1/2013 12:00:00 AM

Priority: D - Routine

Work Code: Repair

Deficiency Description:

BEGIN BRIDGE ASPHALT RUTTING ,END BRIDGE ASPHALT HAS POT HOLES AND SOME RUTTING SEE PHOTO'S

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description End of approach slab west bound lanes
deep ruts and pot holes

Stage: Assigned



PHOTO 2 Description ASPHALT AT END OF APPROACH
NEEDS REPAIR.

Inspector:

Structure Number: B5022

Inspection Date:

Facility Carried: I-30-13-52.97 E.B.

Bridge Inspection Report

Maintenance Needs

Date Reported: 7/1/2013 12:00:00 AM

Priority: D - Routine

Work Code: Repair

Deficiency Description:

CONCRETE CAPS:

BENT #3 RT & LT END OF CAP LARGE SPALL ON END

BENT #14 EAST FACE 2' X 2' SPALL W/ REBAR EXPOSED

.u

BENT # 15 EAST FACE 1' X 2' SPALL W/ REBAR EXPOSED

BENT #21 CAP SMALL SPALLS W/ REBAR EXPOSED

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bent 3 cap spall on rt and lt ends
3 LF

Inspector:

Structure Number: B5022

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 7/1/2013 12:00:00 AM

Priority: D - Routine

Work Code: Repair

Deficiency Description:

DECK CRACKS IN ALL SPANS NUMERIOUS SEALABLE DECK CRACKS

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 27 deck cracks

Inspector:

Structure Number: B5022

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Bridge Inspection Report

Maintenance Needs

Date Reported: 7/1/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: Repair

Deficiency Description:

CONCRETE CAPS

BENTS # 2,4,5,6,7,9,10,13,14,15,16,18,19,20,21,22, 23,24,& 25 MINOR TO LARGE SPALLS AND DELAMINATIONS @ VARIOUS LOCATIONS ON THE CAPS.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description BT 2 cap spalls
18 LF

Stage: Assigned



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: B5022

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Bottom cap spall rebar exposed 2 LF
Between pile 6 & 7

Stage: Assigned



PHOTO 4 Description BT 7 cap spall 3 LF at pile 3

Stage: Assigned



PHOTO 5 Description BT 9 spall at pile 2 for 2 LF

Stage: Assigned



PHOTO 6 Description BT 10 spalls with rebar exposed 10 LF
Area has some paint

Inspection Date:

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Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 11 Description Delams at bent 16

Stage: Assigned



PHOTO 12 Description Crack in riser at bent 16

Stage: Assigned



PHOTO 13 Description Bent 18 large spall west face

Stage: Assigned



PHOTO 14 Description Bent 19 west face north end of cap.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 15 Description Bent 20 spall with rebar, and delams.

Stage: Assigned



PHOTO 16 Description Bent 21 spall with rebar exposed

Stage: Assigned



PHOTO 17 Description Bent 22 spall top of cap west face

Stage: Assigned



PHOTO 18 Description Bent 22 spall bottom of cap rebar exposed.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 19 Description Bent 23 spall bottom of cap rebar exposed.

Stage: Assigned



PHOTO 20 Description Bent 24 spalls, spalls with rebar exposed, and delams.

Stage: Assigned



PHOTO 21 Description Bent 25 spalls and delams.

Stage: Assigned



PHOTO 22 Description Bent 25 spall rebar exposed

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 7/1/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: Repair

Deficiency Description:

SOFFIT OF DECK APPROX. SQ. FEET OF DELAMINATIONS ON BOTTOM OF DECK

SOFFIT AREA ALONG C/L OF BRIDGE IN SPAN #4. SPALLED AREA APPROX. 3' X 8' =24 sq ft. And efflorescence 10 sq ft

SPAN #8 AT BENT # 9
BETWEEN PILES 4 & 5 SPALL W/REBAR EXPOSED IN SOFFIT

SPAN #14, RT. SIDE Spall rebar
Exposed .

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Lg delam 8'x 3' and spall 24 sq ft span 4 center bridge

Stage: Assigned



PHOTO 2 Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description

Stage: Assigned



PHOTO 4 Description SPAN #8 AT BENT # 9
BETWEEN PILES 4 & 5 SPALL
W/REBAR EXPOSED
IN SOFFIT 3 sq ft

Stage: Assigned



PHOTO 5 Description Delam bottom deck 4 sq ft
Efflorescence also.

Stage: Assigned



PHOTO 6 Description Span 12 efflorescence 40 sq ft white
stain 2 sq ft black stain

Inspector:

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Maintenance Needs

Stage: Assigned



PHOTO 7 Description Span 14 spall rebar exposed
4 sq ft section loss to rebar.

Stage: Assigned



PHOTO 8 Description Span 18 delam

Inspector:

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Inspection Date:

Facility Carried: I-30-13-52.97 E.B.

Bridge Inspection Report

Maintenance Needs

Date Reported: 7/1/2013 12:00:00 AM

Priority: D - Routine

Work Code: Repair

Deficiency Description:

ALL DECK CONSTRUCTION JOINTS VARIOUS LOCATIONS JOINTS NEED TO BE CLEANED OUT & FILLED W/ NEW D-200

JOINT AT END BENTS & APPROACH SLABS JOINT IS OPEN WIDE AND NEEDS FILLED. ASPHALT AT END OF APPROACH SLAB HAS POT HOLES .

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Construction joints need to be cleaned and refilled

Stage: Assigned



PHOTO 2 Description Bent 16 joint needs cleaned and refilled

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Pier 2 joint

Stage: Assigned



PHOTO 4 Description Bent 15 joint missing material,leaking

Stage: Assigned



PHOTO 5 Description Bent 1 missing material 2 1/2"

Stage: Assigned



PHOTO 6 Description JOINT MATERIAL MISSING BEGINNING OF BRIDGE.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 7 Description JOINT MATERIAL MISSING END OF BRIDGE

Inspector:

Structure Number: B5022

Inspection Date:

Facility Carried: I-30-13-52.97 E.B.

Bridge Inspection Report

Maintenance Needs

Date Reported: 06/30/2015

Priority: D - Routine

Work Code: Repair

Deficiency Description:

BT 18 has a small crack in pile 2 at top...

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description