



# Bridge Inspection Report

US 80

over

SLOUGH

LAUDERDALE County

- INSPECTION DATE  
04/20/2023
- STRUCTURE NUMBER  
210008003812350
- BRIDGE ID  
12378



Sufficiency Rating:  
52.4

Health Index:  
0

Status:  
OK

Inspected By: Team Leader Jeff McGee

Taylor Coker, Jeff McGee, Bryan Nutt,

Inspection Type(s): Routine

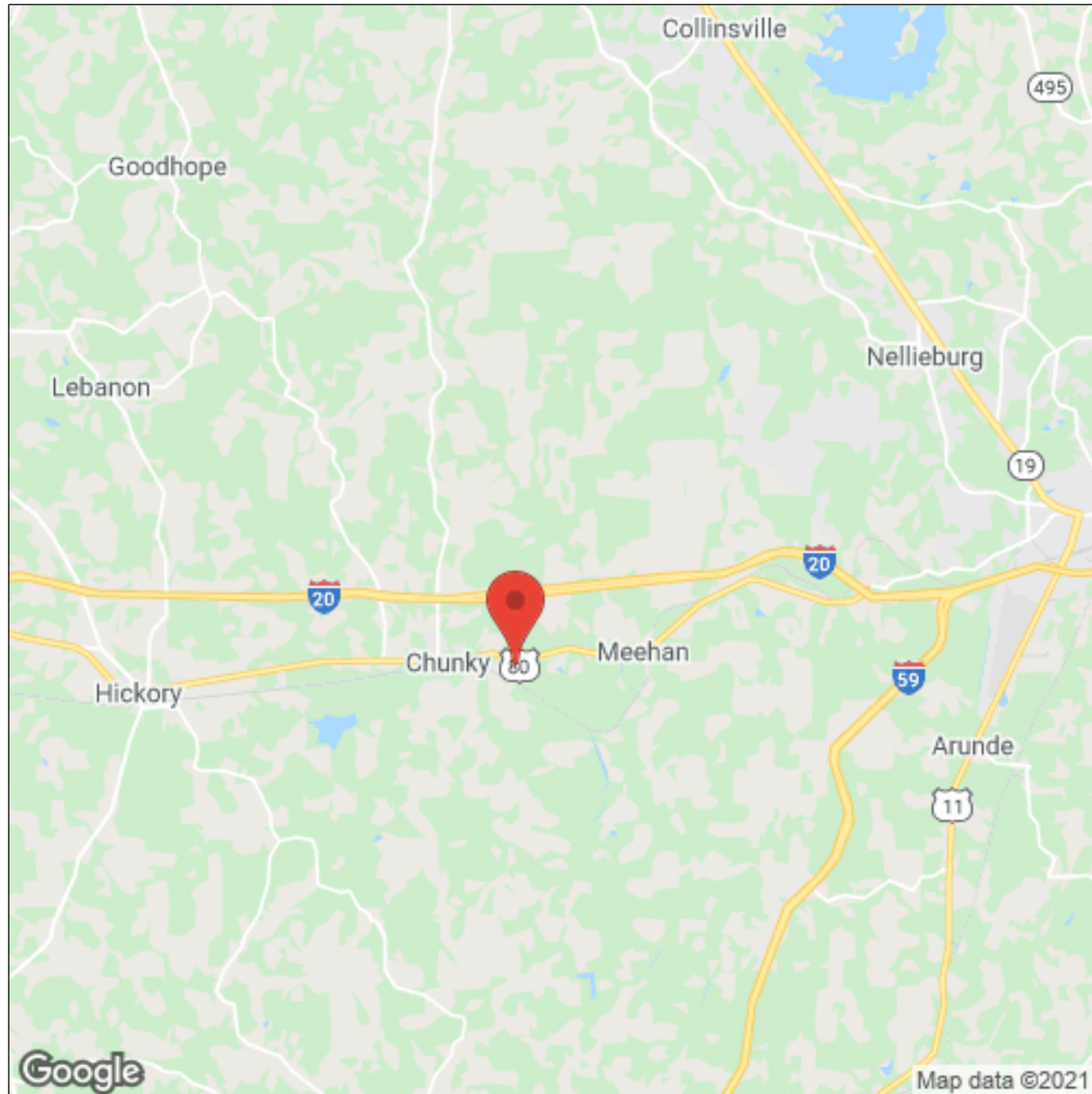
Inspection Performed By: State

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## Location Map



Latitude: 32.32469  
Longitude: -88.906813

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## Executive Summary

### 2023 ROUTINE INSPECTION

DECK IS FAIR CONDITION,RATED 5,WITH MOD.SCALING AND POP OUTS,WITH EXPOSED REBAR IN THE SOFFITS.

SUPERSTRUCTURE IS IN FAIR CONDITION,RATED 5,WITH VERTICAL CRACKS BEAM ENDS AND EXPOSED REBAR.

SUBSTRUCTURE IS IN FAIR CONDITION,RATED 6,WITH ISOLATED EXPOSED REBAR IN CAPS.

CHANNEL IS IN GOOD CONDITION,RATED 8,NO PROBLEMS NOTED.

#### Recommendations:

1. Repair Beam ends.
2. Clean and seal deck.



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## National Bridge Inventory

IDENTIFICATION						INSPECTIONS					
(1) STATE CODE	284 - Mississippi					(90) INSPECTION DATE	04/20/2023				
(8) STRUCTURE NUMBER	210008003812350					(91) DESIGNATED INSPECTION FREQUENCY	12				
(5) INV. ROUTE (ON/UNDER)	1	2	1	00080	0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE				
(2) HIGHWAY AGENCY	05	(3) COUNTY CODE 075					A. FRACTURE CRITICAL DETAIL	N			
(4) PLACE CODE	92556							B. UNDERWATER INSPECTION	N		
(6) FEATURES INTERSECTED	SLOUGH							C. OTHER SPECIAL	N		
(7) FACILITY CARRIED	US 80							CONDITION			
(9) LOCATION	0.5 MI E NEWTON CL							(58) DECK	5		
(11) MILEPOINT	0.532	(12) BASE HIGHWAY NETWORK					0	(59) SUPERSTRUCTURE	5	(60) SUBSTRUCTURE	6
(13A) LRS INVENTORY ROUTE	000000080P		(13B) SUBROUTE NUMBER			1	(61) CHANNEL & CHANNEL PROTECTION	8	(62) CULVERT	N	
(16) LATITUDE	32.32469		(17) LONGITUDE			-88.906813	LOAD RATING AND POSTING				
(98A) BORDER BRIDGE CODE								(31) DESIGN LOAD	2		
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT							(63) METHOD USED TO DETERMINE OPERATING RATING	1		
STRUCTURE TYPE AND MATERIAL											
(43) STRUCTURE TYPE, MAIN											
A) KIND OF MATERIAL/DESIGN: 1 - Concrete											
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam											
(44) STRUCTURE TYPE, APPROACH SPANS											
A) KIND OF MATERIAL/DESIGN:											
B) TYPE OF DESIGN/CONSTR:											
(45) NUMBER OF SPANS IN MAIN	3		(46) NUMBER OF APPROACH			0					
(107) DECK STRUCTURE TYPE	1		(108A) WEARING SURFACE			0					
(108B) DECK MEMBRANE	0		(108C) DECK PROTECTION			0					
AGE OF SERVICE											
(27) YEAR BUILT	1928		(106) YEAR RECONSTRUCTED								
(42) TYPE OF SERVICE	ON 1		UNDER			9					
(28) LANES	ON 02		UNDER			00					
(29) AVERAGE DAILY TRAFFIC	1200		(19) BYPASS DETOUR LENGTH			15					
(30) YEAR OF AVERAGE DAILY TRAFFIC	2020										
(109) AVERAGE DAILY TRUCK TRAFFIC	12										
GEOMETRIC DATA											
(48) LENGTH OF MAX SPAN (ft.)	24		(49) STRUCTURE LENGTH (ft.)			80.1					
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT .7		RIGHT			.7					
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)						20.7					
(52) DECK WIDTH, OUT-TO-OUT (ft.)						22.6					
(32) APPROACH ROADWAY WIDTH (ft.)						29.9					
(33) BRIDGE MEDIAN	0		(34) SKEW (DEG.)			0					
(35) STRUCTURE FLARED	0		(10) INV RTE, MIN VERT CLEAR (ft.)			99.99					
(47) TOTAL HORIZONTAL CLEARANCE (ft.)						20.7					
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99										
(54) VERTICAL UNDER CLEARANCE (ft.)						N		0			
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)						N		0			
(56) MIN LATERAL UNDER CLEARANCE (ft.)						0					
PROPOSED IMPROVEMENTS											
(75A) TYPE OF WORK PROPOSED	31		(75B) WORK DONE BY			1					
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	131.9										
(94) BRIDGE IMPROVEMENT COST (\$)						313000					
(95) ROADWAY IMPROVEMENT COST (\$)						31000					
(96) TOTAL PROJECT COST						932000					
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2011										
(114) FUTURE ADT	1200		(115) YEAR OF FUTURE ADT			2041					
NAVIGATION DATA											
(38) NAVIGATION CONTROL	0										
(111) PIER OR ABUTMENT PROTECTION											
(39) NAV VERT CLEARANCE (ft.)	0										
(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)											
(40) NAV HORIZONTAL CLEARANCE (ft.)	0										

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## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>16 - Reinforced Concrete Top Flange</b>	Ben.	1647	sq. ft.	0	1647	0	0
1080 - Delamination/Spall/Patched Area		2		0	2	0	0
1090 - Exposed Rebar		1		0	1	0	0
1190 - Abrasion/Wear (PSC/RC)		1644		0	1644	0	0
<b>110 - Reinforced Concrete Open Girder/Beam</b>	Ben.	243	ft.	242	1	0	0
1090 - Exposed Rebar		1		0	1	0	0
<b>205 - Reinforced Concrete Column</b>	Ben.	4	each	4	0	0	0
<b>215 - Reinforced Concrete Abutment</b>	Ben.	50	ft.	50	0	0	0
<b>234 - Reinforced Concrete Pier Cap</b>	Ben.	50	ft.	37	13	0	0
1090 - Exposed Rebar		13		0	13	0	0
<b>304 - Open Expansion Joint</b>	Ben.	42	ft.	42	0	0	0
<b>331 - Reinforced Concrete Bridge Railing</b>	Ben.	161	ft.	161	0	0	0

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## ADMINISTRATION

### Structure Assessment

Structural/Functional Classification:	OK	Health Index:	0
Sufficiency Rating:	52.4	Replacement Index:	52.5

### Proposed Improvements

75A Type of Work Proposed:	31 - Replacement -	94 Bridge Improvement Cost:	313000	\$
75B Work Done By:	1 - Work to be done by contract	95 Roadway Improvement Cost:	31000	\$
76 Length Of Structure Improvement:	131.9	Ft.	96 Total Project Cost:	932000
Project Notes:	932014.64856578049	97 Year Of Improvement Cost Estimate:	2011	

### Original Construction

Project Number:	FAP-185(B)	Plans Available:	Unknown
Station:	524+70		

### Site Conditions

Snooper Required:	No	Site Vegetation:	None
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Traffic control required: None

Utility Attachments:

<input type="checkbox"/> Water	<input type="checkbox"/> Sewer	<input type="checkbox"/> Telecom
<input type="checkbox"/> Gas	<input type="checkbox"/> Electric	<input type="checkbox"/> Other

Overhead Appurtenances:

<input type="checkbox"/> Sign Truss	<input type="checkbox"/> Signal	<input type="checkbox"/> Lighting
<input type="checkbox"/> Utility Line		<input type="checkbox"/> Other

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## Approach Report

### NBI Info

(36B) TRANSITIONS	0 - Does not meet acceptable standards/safety feature is required
(36C) APPROACH GUARDRAIL	0 - Does not meet acceptable standards/safety feature is required
(36D) APPROACH GUARDRAIL ENDS	1 - Meets acceptable standards
(72) APPROACH ROADWAY ALIGNMENT	5 - Somewhat better than minimum adequacy to tolerate being left in place as is

### Approach

Appr Guardrail-rear Left Position	Good	S
Appr Guardrail-rear Right Position	Good	S
Appr Guardrail-forward Left Position	Good	S
Appr Guardrail-forward Right Position	Good	S
Appr Roadway Condition	Good	
Appr Roadway Transitions	Good	

### Signage

End Of Bridge Markers	Good
Vertical Clearance Signing	NA
Posting Sign - Rear	NA
Posting Sign - Forward	NA
Posting Values Correct	NA
Valid Posting Limits	

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## DECK

### NBI Info

(58) DECK	5 - Fair Condition (minor section loss)
(036A) BRIDGE RAIL	0 - Does not meet acceptable standards/safety feature is required
(108A) WEARING SURFACE	0 - None
LEFT SHOULDER WIDTH	1.5 FT.
RIGHT SHOULDER WIDTH	1.5 FT.
ASBESTOS DRAINS	U
DECK AREA	1810 SQ FT.

### Full Bridge

	<u>Condition</u>	<u>Notes</u>
Structure:	Fair	MOD. DECK SCALING, SEVERAL POP OUTS, REBAR EXP. AT BAY 1 AT SPAN 3, SOFFIT, EXP. REBAR AT SOFFIT AREA ALL 3 SPANS, SEVERAL LOCATIONS.
Wearing Surface:	Fair	
Curbs:	NA	
Median:	NA	
Sidewalk:	NA	
Joints:	Poor	
Railing:	Good	
Drainage:	Good	
Lighting:	NA	
Utilities:	NA	
Overlay Thickness:	in	



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## SUPERSTRUCTURE

### NBI Info

(59) SUPERSTRUCTURE      5 - Fair Condition (minor section loss)

NUMBER OF BRIDGE PINS

FRACTURE CRITICAL DETAILS

### Full Bridge

#### CONDITION

	<u>Condition</u>	<u>Notes</u>
Girders:	Fair	VERT. CRACKS AT CONC. BEAM ENDS OF SPAN 2, B-3, BEAM 3. VC'S AT R/C BEAMS, EXP. REBAR AT SPAN 2, BEAM 3, 1', 2'X1' REBAR AT SPAN 1, SPALL AND DELAM BEAM 3 SPAN 2 BOTTOM OF BEAM 4'X1'.
Floor Beams:	NA	
Stringers:	NA	
Steel Risers:	NA	
Bearings:	NA	
Hinge Pins/Hangers:	NA	
Diaphragms/Cross Frames:	Fair	CONC. DIA CRACKED AT B-4 AT ENDWALL.
Paint:	NA	
Collision Damage:	Good	
Deflection/Vibration:	Good	
Cap/Girder Debris:	Fair	
Navigation Lighting:	NA	

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## SUBSTRUCTURE

### NBI Info

(60) SUBSTRUCTURE          6 - Satisfactory Condition (minor deterioration)

(111) PIER PROTECTION

### Abutments

	<u>Condition</u>	<u>Notes</u>
Backwall:	Good	
Bulkhead:	NA	
Wing Walls:	Good	
Cap:	Fair	B-2, SPAN 1, SPALL WITH EXP. REBAR 1'X1' FACE OF CAP. B-3 SPAN 2 SPALLS WITH EXP REBAR AT WEST SIDE OF CAP, 3'.
Footings:	NA	
Piles:	NA	
Embankment:	Good	
Slope Paving:	NA	

### Full Bridge

	<u>Condition</u>	<u>Notes</u>
Cap:	Fair	
Risers:	NA	
Columns/Piles:	Good	
Footings:	NA	
Web Walls:	NA	
Bracing:	NA	
Pier Protection-Navigation:	NA	
Pier Protection Lighting:	NA	

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## Hydraulics Report

### NBI Info

(61) CHANNEL & CHANNEL PROTECTION	8 - Banks are protected
(113) SCOUR CRITICAL BRIDGES	5 - Scour within limits of footing or piles
(71) WATERWAY ADEQUACY	8 - Bridge Above Approaches

### Hydraulics

DESIGN MAIN CHANNEL SPAN		CURRENT MAIN CHANNEL SPAN	
BANK CONDITION-UPSTREAM	Good		
BANK CONDITION-SITE	Good		
BANK CONDITION-DOWNSTREAM	Good		
SCOUR COUNTERMEASURES	Good		
<input type="checkbox"/> SPURS	<input type="checkbox"/> BENDWAY WEIRS	<input type="checkbox"/> DROP STRUCTURES	<input type="checkbox"/> HARDPOINTS
<input type="checkbox"/> JACKS	<input type="checkbox"/> LONGITUDINAL DIKES	<input type="checkbox"/> GUIDE BANKS	<input checked="" type="checkbox"/> RIPRAP
<input type="checkbox"/> GABIONS	<input type="checkbox"/> CRUTCH BENTS/UNDERPINNING	<input type="checkbox"/> CROSS BRACING	<input type="checkbox"/> SHEET PILE/COFFERDAM
<input type="checkbox"/> DEBRIS DEFLECTORS	<input type="checkbox"/> VISUAL SCOUR MONITORING	<input type="checkbox"/> FIXED SCOUR MONITORING INSTRUMENTATION	
STREAMBED MATERIAL			
<input type="checkbox"/> COBBLE/BOULDER	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SAND	<input type="checkbox"/> SILT
			<input checked="" type="checkbox"/> SILT-CLAY
UNKNOWN FOUNDATION			
SCOUR EVALUATION DONE		S	
USGS GAGING STATION		None	
OBSERVED STREAM VELOCITY		Low	
STREAMBED AGGRADATION EVIDENT		None	
STREAMBED DEGRADATION EVIDENT		None	
ABUTMENTS ENCROACH INTO CHANNEL		No	
INDICATIONS OF SCOUR		No	
EVIDENCE OF ABUTMENT UNDERMINING		No	
EVIDENCE OF PIER UNDERMINING		NA	
INDICATIONS THAT FLOODWATERS OVERTOP BRIDGE		No	
INDICATIONS THAT FLOODWATERS OVERTOP APPROACHES		No	
SCOUR NOTES			

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Pictures



PHOTO 1    General, Superstructure  
Description    ELEVN

Pictures



PHOTO 2    General  
Description    CLE



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## Pictures



PHOTO 3 General, Substructure, Channel

Description DS

## Pictures



PHOTO 4 General

Description ELEVS



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Pictures



PHOTO 5      Substructure

Description      B-2 SPAN 1, SPALL WITH EXP. REBAR 1' X1' FACE OF CAP

Pictures



PHOTO 6      Substructure

Description      B-3 SPAN 2, SPALLS IN CAP.



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Pictures



PHOTO 7     Superstructure

Description     SPALL AND DELAM BEAM 3 SPAN 2 BOTTOM OF BEAM 4'X1'. VC'S AT R/C BEAMS

Pictures



PHOTO 8     General, Substructure, Channel

Description     US



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Pictures



PHOTO 9    General  
Description    CLW

Pictures

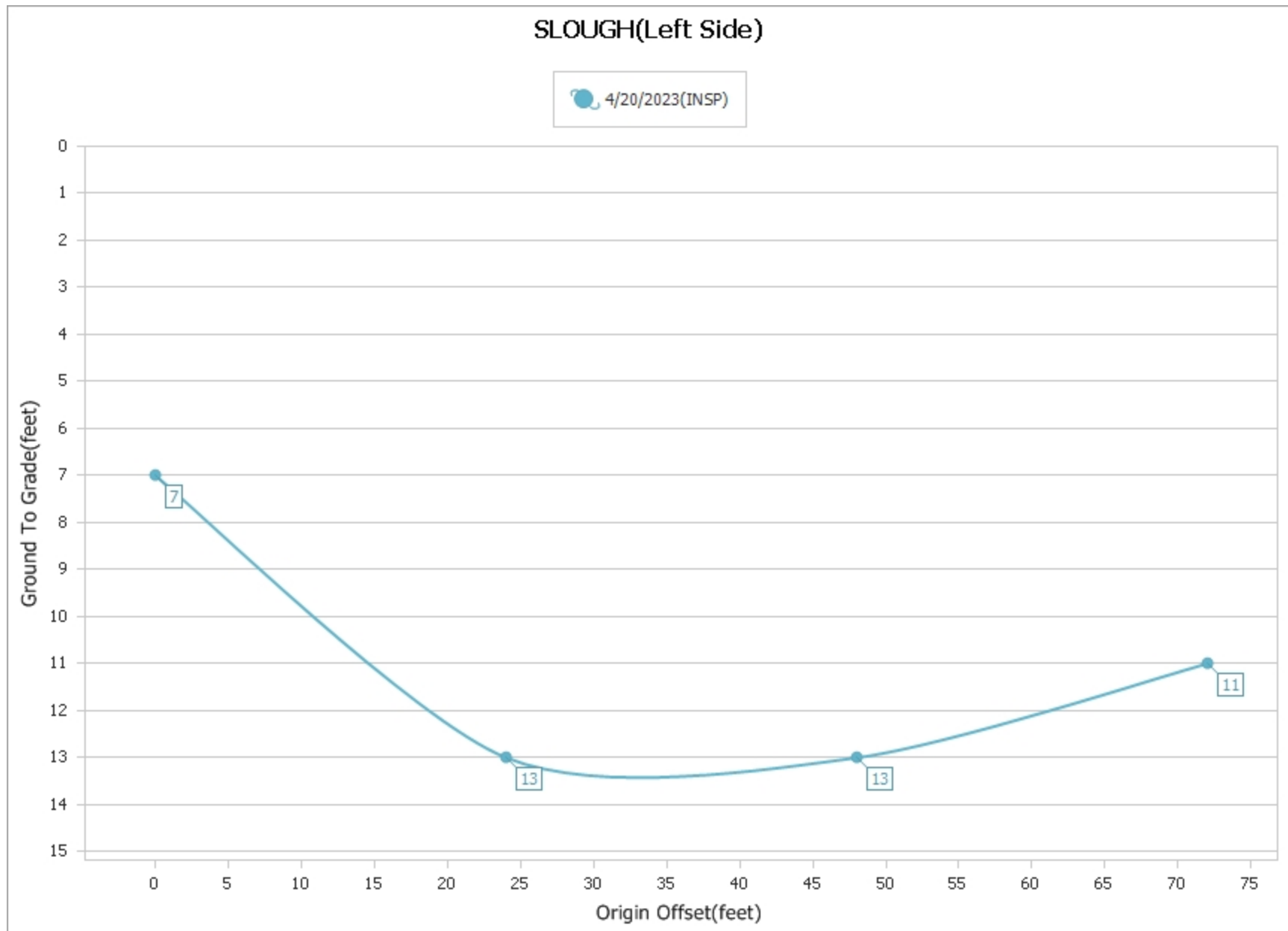


PHOTO 10    Deck  
Description    MOD. DECK SCALING. SEVERAL POP OUTS

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Location: 0.5 MI E NEWTON CL

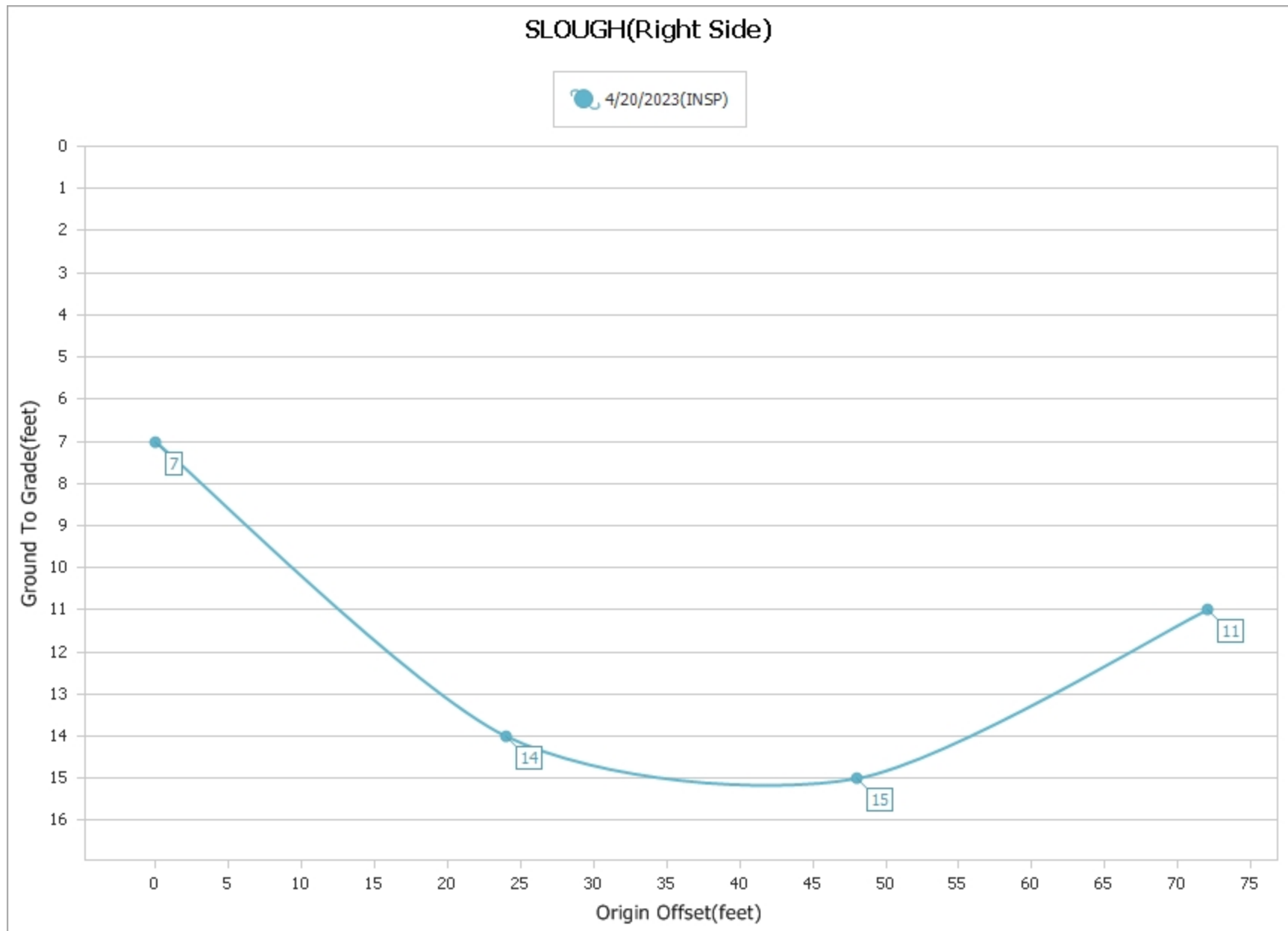


Print Date: 4/20/2023

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Bridge ID: 12378

County: Lauderdale  
Facility: US 80

Feature Intersected: SLOUGH  
Location: 0.5 MI E NEWTON CL



Print Date: 4/20/2023