



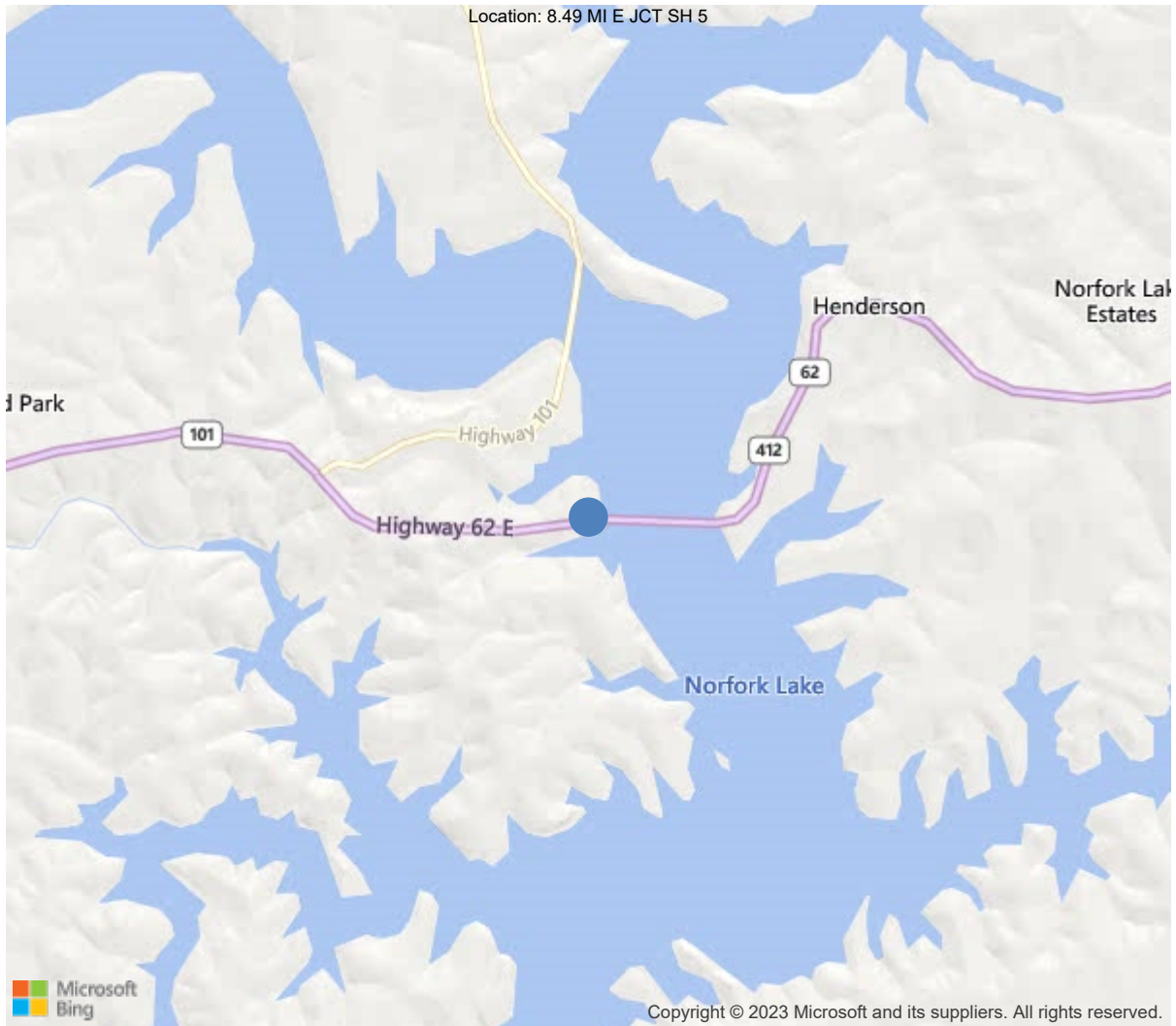
Latitude:36.37066, Longitude:-92.24709

Route:62 Section:11 Log:8.73

Arnold Road ID:3x62x11xA, Arnold Log mile:8.517

District 09, 5 - Baxter County

Owner: 1 - State Highway Agency



36.37066, -92.24709



Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, Inspection Date: 11/09/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05770
(5) Inventory Route	1
(2) Highway Agency District	09 - District 09
(3) County Code	5 - Baxter County
(4) Place Code	30420
(6) Features Intersected	Norfolk Lake-District 9
(7) Facility Carried	US 62 & US 412
(9) Location	8.49 MI E JCT SH 5
(11) Mile Point	8.73 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000062110
(16) Latitude	36.37066
(17) Longitude	-92.24709
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	43
Material	4 - Steel continuous
Type	3 - Girder and floorbeam system
(44) Approach Structure Type	43
Material	4 - Steel continuous
Type	3 - Girder and floorbeam system
(45) No. of Spans in Main Unit	14
(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	1982
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	5300
(30) Year of ADT	2018
(109) Truck ADT	6 %
(19) Bypass, Detour Length	20 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	255 ft
(49) Structure Length	3460 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	44 ft
(52) Deck Width Out to Out	47 ft
(32) Approach Roadway Width (W/Shoulders)	44 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	44.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	1 - Navigation control on wate
(111) Pier Protection	5 - None present but re-evalua
(39) Navigation Vertical Clearance	39.7 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	199.8 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	1
(26) Functional Class	2 - Rural Principal Arterial -
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	2 - 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	4 - Historical significance is
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	8
(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	38
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	23
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	8 - Bridge foundations determined t
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	6035
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	11/09/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	Yes	12	11/09/2022
B: Underwater Inspection	Yes	60	07/22/2018
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.			



General Observation

Local maintenance crew out of Mountain Home office flagged traffic. Aspen 9025 was used to inspect the structure only traveling one direction.

61 - Channel/Channel Protection (8 - Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition.)

9/29/2021 RWF, ADC & VLC - Ardot performed an underwater sonar survey upstream, downstream and directly beneath Bridge #05770. The equipment consisted of a Norbit Wing head i77h bathymetric system. This sonar system was utilized with real time survey corrections using Wi-Fi. The resolution of bottom detection is 0.5 degrees by 0.9 degrees collecting at a rate of 1024 beams approximately 40 times a second. This method of underwater inspection produces a very dense point cloud of channel bottoms, bridge piers and foundations.

Data was collected in the field and brought back to the office for data preparation. Bathymetric data was analyzed using Quincy. Data was analyzed in the office. Channel bottoms were compared to channel bottoms from the bridge plans. Footing elevations were compared to that of the mud lines around the substructure.

A-46 - Asset Files

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Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, Inspection Date: 11/09/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	162620	133200	29355	65	0
1080	Delamination/Spall/Patched Area	SF	768	0	703	65	0
1120	Efflorescence/Rust Staining	SF	698	0	698	0	0
1130	Cracking (RC and Other)	SF	274	0	274	0	0
1190	Abrasion/Wear (PSC/RC)	SF	27680	0	27680	0	0
<p>(12) 11/09/2022 RWF, APW & KVV - The driving surface has minor potholes and sealed cracks are starting to deteriorate. Isolated areas of delamination scattered throughout the deck.</p> <p>11/10/2020 RWF & APW - Maintenance forces have made pothole repairs and sealed most deck cracks. Minor areas of abrasion and small/medium spalling with delaminated areas still exist. See maintenance needs for locations.</p> <p>11/06/2018 RWF & APW Deck has been sealed in the past, repairs are deteriorating and now have numerous areas of sealable cracking. large delaminated areas, spalling and large potholes in the driving surface.(See maintenance needs for locations)</p> <p>Transverse cracking scattered throughout deck it has been sealed in the past.</p> <p>Span 10: (2) 3'x1' spalls .</p> <p>Span 11: Small spall with reinforcing steel exposed and 11' of delams.</p> <p>Span 12: 5 spalls and 2 asphalt patches.</p> <p>Span 2 Spalling with asphalt patches</p>							
107	Steel Open Girder/Beam	LF	6920	6637	208	75	0
1000	Corrosion	LF	283	0	208	75	0
515	Steel Protective Coating	SF	228360	224854	0	3208	298
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	3506	0	0	3208	298
3440	Effectiveness (Steel Protective Coatings)	LF	0	0	0	0	0
<p>(107) 11/09/2022 RWF, APW & KVV - Minor areas of abnormal rusting with up to 1/2" flakes visible at the splice plate connections and bottom flanges. No visible cracks at this inspection.</p> <p>11/10/2020 - RWF & APW - Minor areas of abnormal rusting with up to quarter size flakes visible at the splice plate connections and bottom flanges. No visible cracks or noteworthy changes since last inspection.</p> <p>11/05/2019 - MFF & JRT - No apparent noteworthy deficiencies at this inspection.</p> <p>11/06/2018 - RWF & APW - Minor areas of abnormal rusting with up to quarter size flakes visible at the splice plate connections and bottom flanges. No visible cracks or noteworthy changes since last inspection.</p> <p>A- 588 steel has up to 1/4" diameter flaking on bottom of bottom flange at joints 4,8 and 12.</p>							
113	Steel Stringer	LF	13840	13840	0	0	0
515	Steel Protective Coating	SF	68370	68370	0	0	0
(113) 11/10/2020 - RWF & APW - No noteworthy changes or deficiencies at this inspection.							
152	Steel Floor Beam	LF	6600	4122	0	2478	0



Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, Inspection Date: 11/09/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1000	Corrosion	LF	2478	0	0	2478	0
515	Steel Protective Coating	SF	52998	27531	0	25467	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	25467	0	0	25467	0
(152) 11/09/2022 RWF, APW & KVV - Isolated areas of abnormal weathering at the pin and hanger locations ahead and back floor beams.							
11/10/2020 - RWF & APW - No noteworthy changes or deficiencies at this inspection.							
11/05/2019 - MFF & JRT - active corrosion to floor beams at all joint location. (see photo)							
11/06/2018 - RWF & APW - No noteworthy changes or deficiencies at this inspection.							
11/07/2017 - RWF & KRM - No noteworthy changes or deficiencies at this inspection.							
161	Steel Pin, Pin and Hanger Assembly	EA	6	2	4	0	0
1000	Corrosion	EA	4	0	4	0	0
515	Steel Protective Coating	SF	156	136	20	0	0
3440	Effectiveness (Steel Protective Coatings)	EA	20	0	20	0	0
(161) 11/09/2022 RWF, APW & KVV - Pin and hangers appear to be working as intended at this inspection.							
11/10/2020 - RWF & APW - No noteworthy changes or deficiencies at this inspection. Pin and hangers appear to be working as intended at this inspection.							
11/05/2019 - MFF & JRT - Hanger bars have active corrosion with flaking rust at interior bars. this is typical.							
11/06/2018 - RWF & APW - No noteworthy changes or deficiencies at this inspection.							
11/07/2017 - RWF & KRM - Pin and hangers appear to be working as intended at this inspection.							
205	Reinforced Concrete Column	EA	26	0	2	24	0
1120	Efflorescence/Rust Staining	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	25	0	2	23	0
(205) 11/09/2022 RWF, APW & KVV - All columns have vertical cracks that have been epoxy filled, the epoxy is starting to crack. There are new vertical cracks with efflorescence on all columns.							
11/06/2018 - RWF & APW - No noteworthy changes at this inspection.							
210	Reinforced Concrete Pier Wall	LF	432	432	0	0	0
215	Reinforced Concrete Abutment	LF	240	205	28	7	0
1120	Efflorescence/Rust Staining	LF	7	0	0	7	0
1130	Cracking (RC and Other)	LF	28	0	28	0	0

Team Lead: Anthony Wood, **Inspection Date:** 11/09/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(215) 11/09/2022 RWF, APW & KVV - Abutment 1: 8 vertical cracks in back wall. Abutment 2: 6 vertical cracks in back wall. Graffiti on both abutments.							
234	Reinforced Concrete Pier Cap	LF	624	602	22	0	0
1130	Cracking (RC and Other)	LF	22	0	22	0	0
(234) 11/09/2022 RWF, APW & KVV - Minor vertical cracks in all caps. .							
303	Assembly Joint with Seal	LF	220	95	125	0	0
2350	Debris Impaction	LF	125	0	125	0	0
(303) 11/09/2022 RWF, APW & KVV - Joints have minor amount of dirt and debris in the troughs at this inspection. 11/10/2020 - RWF & APW - Joints appear to have been cleaned. No noteworthy deficiencies at this inspection. 11/06/2018 - RWF & APW - Joints appear to have been cleaned. No noteworthy deficiencies at this inspection. 11/07/2017 - RWF & KRM - All assembly joints are packed with dirt and debris promoting corrosion.							
311	Movable Bearing	EA	6	4	2	0	0
2220	Alignment	EA	2	0	2	0	0
(311) 11/09/2022 RWF, APW & KVV - No apparent repairs or changes since last inspection. Abutment 1 bearings at girder 1 and 2 are misaligned.							
313	Fixed Bearing	EA	24	24	0	0	0
321	Reinforced Concrete Approach Slab	SF	3666	1088	2538	40	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
1130	Cracking (RC and Other)	SF	75	0	35	40	0
1190	Abrasion/Wear (PSC/RC)	SF	2500	0	2500	0	0
(321) 11/09/2022 RWF, APW & KVV - Approach slabs have sealable cracking with deteriorating crack repairs. 11/06/2018 - RWF & APW - No apparent repairs or changes since last inspection. East approach longitude crack that has been injected with epoxy this repair is beginning to fail. West approach has 4 longitudinal cracks that has been filled with epoxy.							
331	Reinforced Concrete Bridge Railing	LF	6920	5160	1759	1	0
1080	Delamination/Spall/Patched Area	LF	57	0	56	1	0
1130	Cracking (RC and Other)	LF	1703	0	1703	0	0
(331) 11/09/2022 RWF, APW & KVV - No apparent changes since last inspection. 11/10/2020 - RWF & APW - No apparent changes since last inspection. Minor vertical cracks scattered throughout deck.							

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	6920	6637	208	75	0
1000	Corrosion	LF	283	0	208	75	0
515	Steel Protective Coating	SF	228360	224854	0	3208	298
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	3506	0	0	3208	298
3440	Effectiveness (Steel Protective Coatings)	LF	0	0	0	0	0
(107) 11/09/2022 RWF, APW & KVV - Minor areas of abnormal rusting with up to 1/2" flakes visible at the splice plate connections and bottom flanges. No visible cracks at this inspection.							
11/10/2020 - RWF & APW - Minor areas of abnormal rusting with up to quarter size flakes visible at the splice plate connections and bottom flanges. No visible cracks or noteworthy changes since last inspection.							
11/05/2019 - MFF & JRT - No apparent noteworthy deficiencies at this inspection.							
11/06/2018 - RWF & APW - Minor areas of abnormal rusting with up to quarter size flakes visible at the splice plate connections and bottom flanges. No visible cracks or noteworthy changes since last inspection.							
A- 588 steel has up to 1/4" diameter flaking on bottom of bottom flange at joints 4,8 and 12.							
113	Steel Stringer	LF	13840	13840	0	0	0
515	Steel Protective Coating	SF	68370	68370	0	0	0
(113) 11/10/2020 - RWF & APW - No noteworthy changes or deficiencies at this inspection.							
152	Steel Floor Beam	LF	6600	4122	0	2478	0
1000	Corrosion	LF	2478	0	0	2478	0
515	Steel Protective Coating	SF	52998	27531	0	25467	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	25467	0	0	25467	0
(152) 11/09/2022 RWF, APW & KVV - Isolated areas of abnormal weathering at the pin and hanger locations ahead and back floor beams.							
11/10/2020 - RWF & APW - No noteworthy changes or deficiencies at this inspection.							
11/05/2019 - MFF & JRT - active corrosion to floor beams at all joint location. (see photo)							
11/06/2018 - RWF & APW - No noteworthy changes or deficiencies at this inspection.							
11/07/2017 - RWF & KRM - No noteworthy changes or deficiencies at this inspection.							
161	Steel Pin, Pin and Hanger Assembly	EA	6	2	4	0	0
1000	Corrosion	EA	4	0	4	0	0
515	Steel Protective Coating	SF	156	136	20	0	0
3440	Effectiveness (Steel Protective Coatings)	EA	20	0	20	0	0
(161) 11/09/2022 RWF, APW & KVV - Pin and hangers appear to be working as intended at this inspection.							
11/10/2020 - RWF & APW - No noteworthy changes or deficiencies at this inspection. Pin and hangers appear to be working as							

Team Lead: Anthony Wood, **Inspection Date:** 11/09/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
intended at this inspection.							
11/05/2019 - MFF & JRT - Hanger bars have active corrosion with flaking rust at interior bars. this is typical.							
11/06/2018 - RWF & APW - No noteworthy changes or deficiencies at this inspection.							
11/07/2017 - RWF & KRM - Pin and hangers appear to be working as intended at this inspection.							



Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	26	0	2	24	0
1120	Efflorescence/Rust Staining	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	25	0	2	23	0
(205) 11/09/2022 RWF, APW & KVV - All columns have vertical cracks that have been epoxy filled, the epoxy is starting to crack. There are new vertical cracks with efflorescence on all columns.							
11/06/2018 - RWF & APW - No noteworthy changes at this inspection.							
210	Reinforced Concrete Pier Wall	LF	432	432	0	0	0
215	Reinforced Concrete Abutment	LF	240	205	28	7	0
1120	Efflorescence/Rust Staining	LF	7	0	0	7	0
1130	Cracking (RC and Other)	LF	28	0	28	0	0
(215) 11/09/2022 RWF, APW & KVV - Abutment 1: 8 vertical cracks in back wall. Abutment 2: 6 vertical cracks in back wall. Graffiti on both abutments.							
234	Reinforced Concrete Pier Cap	LF	624	602	22	0	0
1130	Cracking (RC and Other)	LF	22	0	22	0	0
(234) 11/09/2022 RWF, APW & KVV - Minor vertical cracks in all caps.							

61 - Channel/Channel Protection (8 - Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition.)

Comment: 9/29/2021 RWF, ADC & VLC - Ardot performed an underwater sonar survey upstream, downstream and directly beneath Bridge #05770. The equipment consisted of a Norbit Wing head i77h bathymetric system. This sonar system was utilized with real time survey corrections using Wi-Fi. The resolution of bottom detection is 0.5 degrees by 0.9 degrees collecting at a rate of 1024 beams approximately 40 times a second. This method of underwater inspection produces a very dense point cloud of channel bottoms, bridge piers and foundations.

Data was collected in the field and brought back to the office for data preparation. Bathymetric data was analyzed using QuinCY. Data was analyzed in the office. Channel bottoms were compared to channel bottoms from the bridge plans. Footing elevations were compared to that of the mud lines around the substructure.



Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, Inspection Date: 11/09/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Span 3 Left lane



Span 3 Left lane



Span 3 Left lane



Span 2 Spalling in wheel paths



Typical deck



Inventory



Hanger bar at bent 3 flaking rust.



Typical protective coating



Light map cracking



Span 1 Left lane Spalling



Pier 1 Crack repair failing



Pier 2 Column 1 Cracking with efflorescence



Abutment 2 Approach slab failing sealant



Approach slab has been sealed



Span 2 Right lane



Typical undersurface



Span 10 Right Spalling in overhangs



Span 1&2 right Spalling in overhangs



Span 3 Left and Right Spalling in undersurface



Span 5 Right lane Spalling



Typical efflorescence in overhangs



Span 13 Right Efflorescence in overhangs



Span 8 Typical corrosion



Bent 1 Girder 1 Flaking rust



Span 1 Girder 1 Flaking rust



Span 2 Girder 1 Flaking rust



Span 3 Girder 1 Flaking rust



Span 7 Girder 1 Flaking



Span 9 Girder 2 Flaking rust in splice plate



Span 8 Floorbeam 1 Bottom flange flaking rust



Pier 7 Typical cracking



Pier 1 Column 1 Cracking with efflorescence



Abutment 2 typical



Bent 1 Efflorescence



East Approach slab failing repair



East approach sealable cracking



Typical vertical cracking in bridge railing



Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, Inspection Date: 11/09/2022

Maintenance Needs

Date Reported: 11/08/2010
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component:

Deficiency Description

R/C CONCRETE COLUMNS:

The top 15' of the Lt. and Rt. columns at Piers 1 through 12 are cracked with efflorescence. Epoxy injection has been attempted in the past.

Pier 1: Vertical efflorescence cracks in Lt. & Rt. columns.

Pier 2: Numerous efflorescence cracks in Lt. & Rt. columns.

Pier 3: Numerous efflorescence cracks in Lt. & Rt. columns.

Pier 4: Numerous efflorescence cracks in Lt. & Rt. columns. Col. 1 has light scale and vertical cracks at waterline.

Pier 5: Numerous efflorescence cracks in Lt. & Rt. columns.

Pier 6: Numerous efflorescence cracks in Lt. & Rt. columns.

Pier 7: Numerous efflorescence cracks in Lt. & Rt. columns.

Pier 8: Numerous efflorescence cracks in Lt. & Rt. columns.

Pier 9: Numerous efflorescent cracks in Lt. & Rt. columns.

Pier 10: Numerous efflorescence cracks in Lt. & Rt. columns.

Pier 11: Numerous efflorescence cracks in Lt. & Rt. columns.

Pier 12: Numerous efflorescence cracks in Lt. & Rt. columns.

MFF & KRM 11-07-2016 - repaired areas with epoxy appear to be failing at this inspection cracking in the epoxy is visible. Cracking with efflorescence is still visible typical with all columns.

Remarks



Pier 3 epoxy injection. Cracks with Efflorescence in both columns.



Pier 1, Column 2: Failing repairs.



Typical piers.

Date Reported: 11/08/2010
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 9 - None
Status: Open
Component:

Deficiency Description

Bearings:

*Lt. bearing at Pier 1 is corroding.

MFF & KRM 11-07-2016 - appears to be paint peeling not corrosion. see photo..

Remarks



Peeling paint no apparent corrosion pier 1 left.



Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, **Inspection Date:** 11/09/2022

Date Reported: 11/27/2017
Priority: C - Important
Type of Work: (Inactive) (Inactive) 9 - None
Status: Open
Component:

Deficiency Description

*Navigation Lights:

*Green navigation light is out in Span 9 upstream side.

*Red navigation light is out in Span 10 Downstream side. Added 11/06/2018 - RWF & APW

Remarks

Notified D-9 DME (Jeff Wheeler) 12/18/2017

*See attached photo repairs have been made. This item can be completed.



Span 9 green navigation light is out at Girder 1.



Span 9, Left: Navigation light not working.



Pier 10, Right: Navigation light out.



Upstream light repairs

Date Reported: 11/06/2019
Priority: C - Important
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component:

Deficiency Description

DECK
Water is leaking from the 3/4" chamfered drip groove in deck. During construction process forms wasn't together at this location.

Remarks



Span 8 RT top flange active corrosion with flaking rust . Water is leaking from the crack that propagates through deck.



Water is leaking from 3/4 chamfer at chamfer joint location typical at all locations.

Date Reported: 11/08/2010
Priority: C - Important
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component:

Deficiency Description

Utilities:
West Abutment: Electrical conduit is separated at ground level.

Remarks

Reported to D-9 (Jeff Wheeler)



Utility conduit separating at ground level.



Utility conduit separating.



Asset #05770(NSTM, Routine)

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Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, **Inspection Date:** 11/09/2022

Date Reported: 11/08/2010
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component:

Deficiency Description

GRAFFITI:
Abut. 1 & 2: Heavy graffiti.
Piers 1, 10, 11, 12 & 13: Graffiti at on caps.

MFF & KRM 11-07-2016 - no apparent noteworthy change since last inspection.

Remarks



Abutment 1: Graffiti.



Abutment 1



Abutment 1 Graffiti

Date Reported: 11/08/2010
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component:

Deficiency Description

WINGWALL:

Abut. 1: The Lt. and Rt. wing walls have a 45-degree open crack at the top.

MFF & KRM 11-07-2016 - no apparent noteworthy change since last inspection.

Remarks



Wing wall at abutment 1 45 degree crack at the top. (Typical at all wing walls)



WINGWALL:

Abut. 1: The Lt. and Rt. wing walls have a 45-degree open crack at the top.



Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, **Inspection Date:** 11/09/2022

Date Reported: 11/19/2012
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component:

Deficiency Description

ABUTMENTS

Abut. 1: 4 vertical efflorescence and 3 hairline cracks in the cap and back wall.

Abut. 2: 6 vertical efflorescence cracks in the back wall and 4 hairline cracks in the cap.

MFF & KRM 11-07-2016 - no apparent noteworthy change since last inspection.

Remarks



Abutment 1: Vertical cracking with efflorescence.



Abutment 1: 8 vertical cracks in back wall.



6 vertical cracks in back wall at abutment 2.



Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, **Inspection Date:** 11/09/2022

Date Reported: 12/03/2012

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

APPROACH SLABS:

East Abut: Approach slab at the east end of the bridge has a full length longitudinal crack. Epoxy repair is cracking.

West Abut: The approach slab has settled 1 1/2".

East and West approach roadway: Pavement is cracked and settled in the Lt. lane.

MFF & KRM 11-07-2016 - no apparent noteworthy change since last inspection.

Remarks



East approach longitude crack with epoxy that is cracking.



Approach Slab 1: Longitudinal cracking.



West approach has 4 longitudinal cracks



West approach finger joint raised

Date Reported: 12/01/2020
Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Deck

Deficiency Description

Deck:

Span 6 Left Lane Spalling
Span 12 Right Lane Spalling
Span 13 Right lane Spalling
Span 14 Left Lane Spalling

Remarks

Scheduled for deck overlay 6/2021



Span 6 Left lane Spalling



Span 6 Left lane



Span 13 Right lane delaminating area



Span 12 Spalling in the right lane



Span 14 Spalling in right lane



Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, **Inspection Date:** 11/09/2022

Date Reported: 12/02/2020
Priority: B - Pressing
Type of Work: Repair (General)
Status: Open
Component: Channel

Deficiency Description

Navagation Placards;

Pier 9 Navagastion placards are not readable.

Remarks



Pier 9 Upstream sign



Pier 9 Downstream sign



Pier 9 Downstream



Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, Inspection Date: 11/09/2022

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	



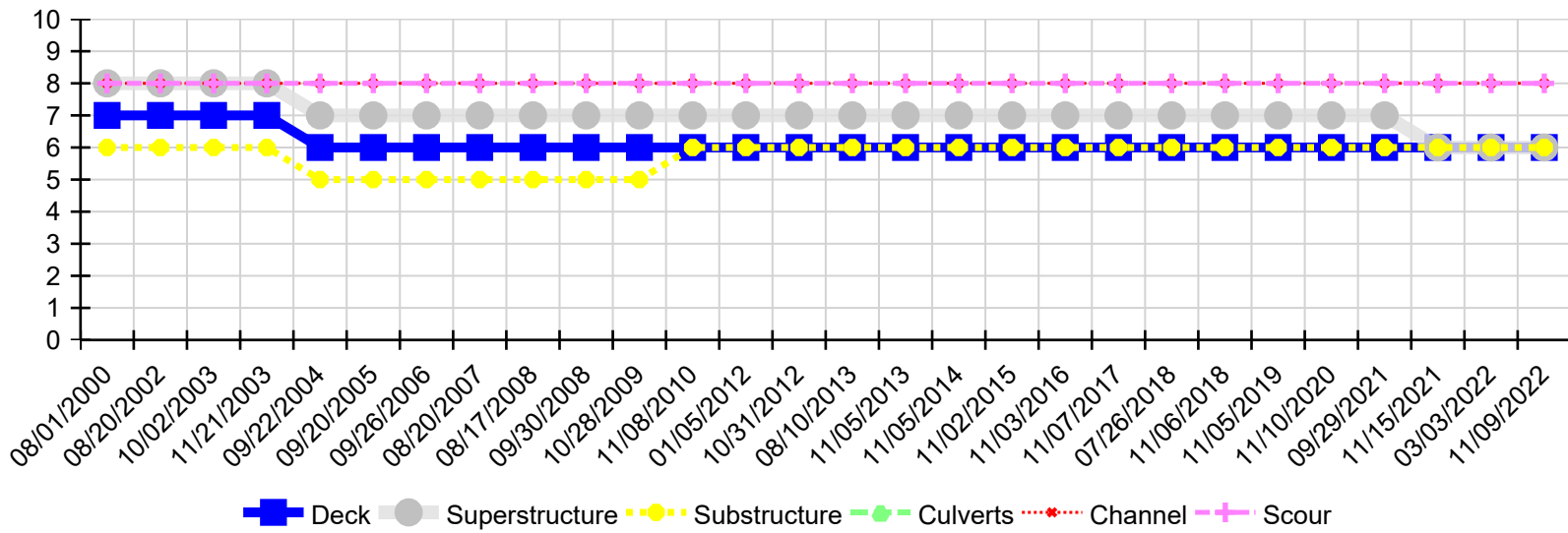
Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, Inspection Date: 11/09/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/09/2022	6	6	6	N	8	8
03/03/2022	6	6	6	N	8	8
11/15/2021	6	6	6	N	8	8
09/29/2021	6	7	6	N	8	8
11/10/2020	6	7	6	N	8	8
11/05/2019	6	7	6	N	8	8
11/06/2018	6	7	6	N	8	8
07/26/2018	6	7	6	N	8	8
11/07/2017	6	7	6	N	8	8
11/03/2016	6	7	6	N	8	8
11/02/2015	6	7	6	N	8	8
11/05/2014	6	7	6	N	8	8
11/05/2013	6	7	6	N	8	8
08/10/2013	6	7	6	N	8	8
10/31/2012	6	7	6	N	8	8
01/05/2012	6	7	6	N	8	8
11/08/2010	6	7	6	N	8	8
10/28/2009	6	7	5	N	8	8
09/30/2008	6	7	5	N	8	8
08/17/2008	6	7	5	N	8	8
08/20/2007	6	7	5	N	8	8
09/26/2006	6	7	5	N	8	8
09/20/2005	6	7	5	N	8	8
09/22/2004	6	7	5	N	8	8
11/21/2003	7	8	6	N	8	8
10/02/2003	7	8	6	N	8	8
08/20/2002	7	8	6	N	8	8



Asset #05770(NSTM, Routine)

US 62 & US 412 over Norfolk Lake-District 9

Location: 8.49 MI E JCT SH 5

Team Lead: Anthony Wood, **Inspection Date:** 11/09/2022

Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
08/01/2000	7	8	6	N	8	8

PIN LAYOUT

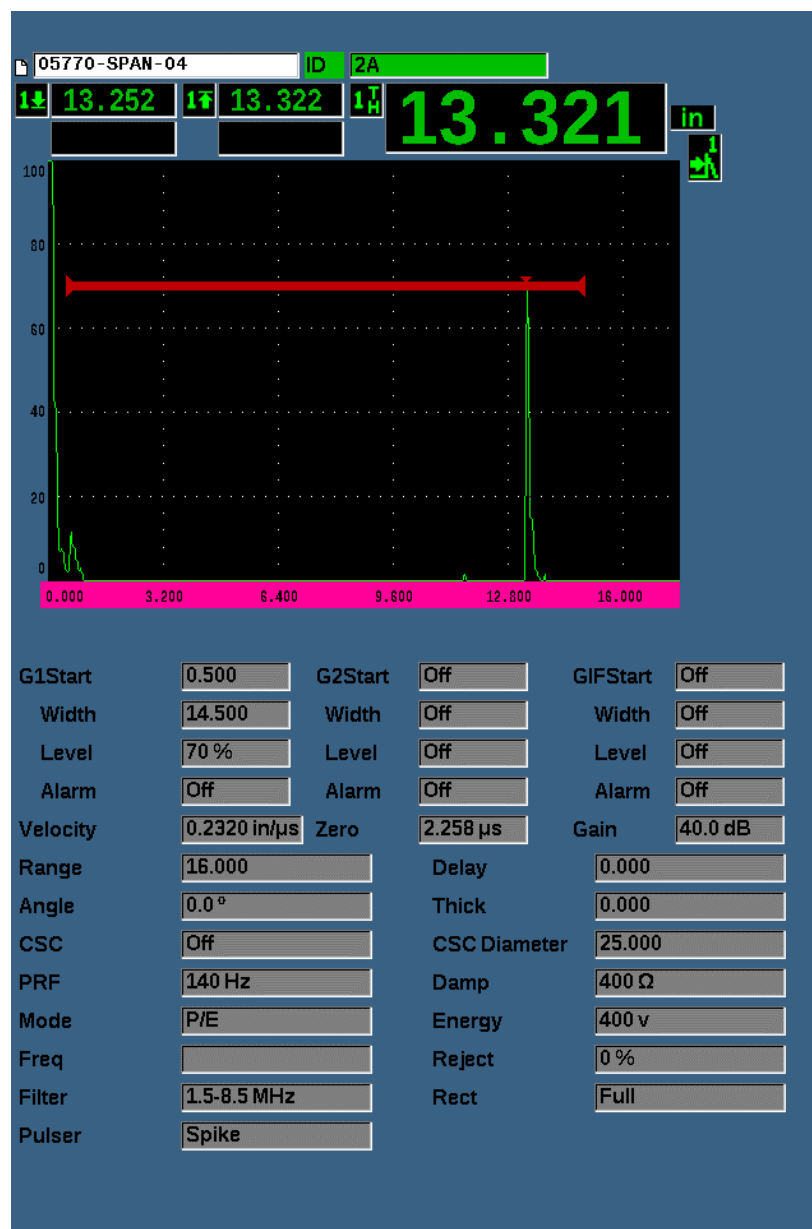
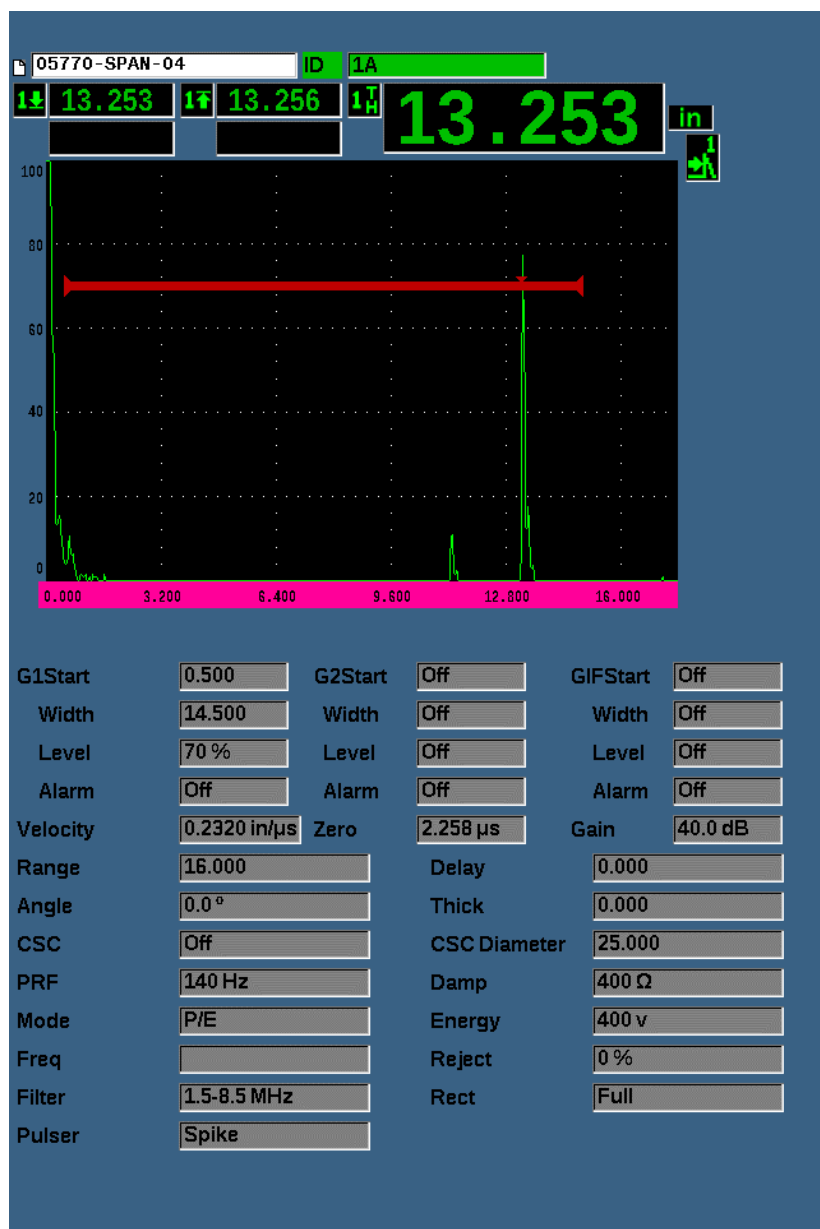
BRIDGE #05770

1 = TOP

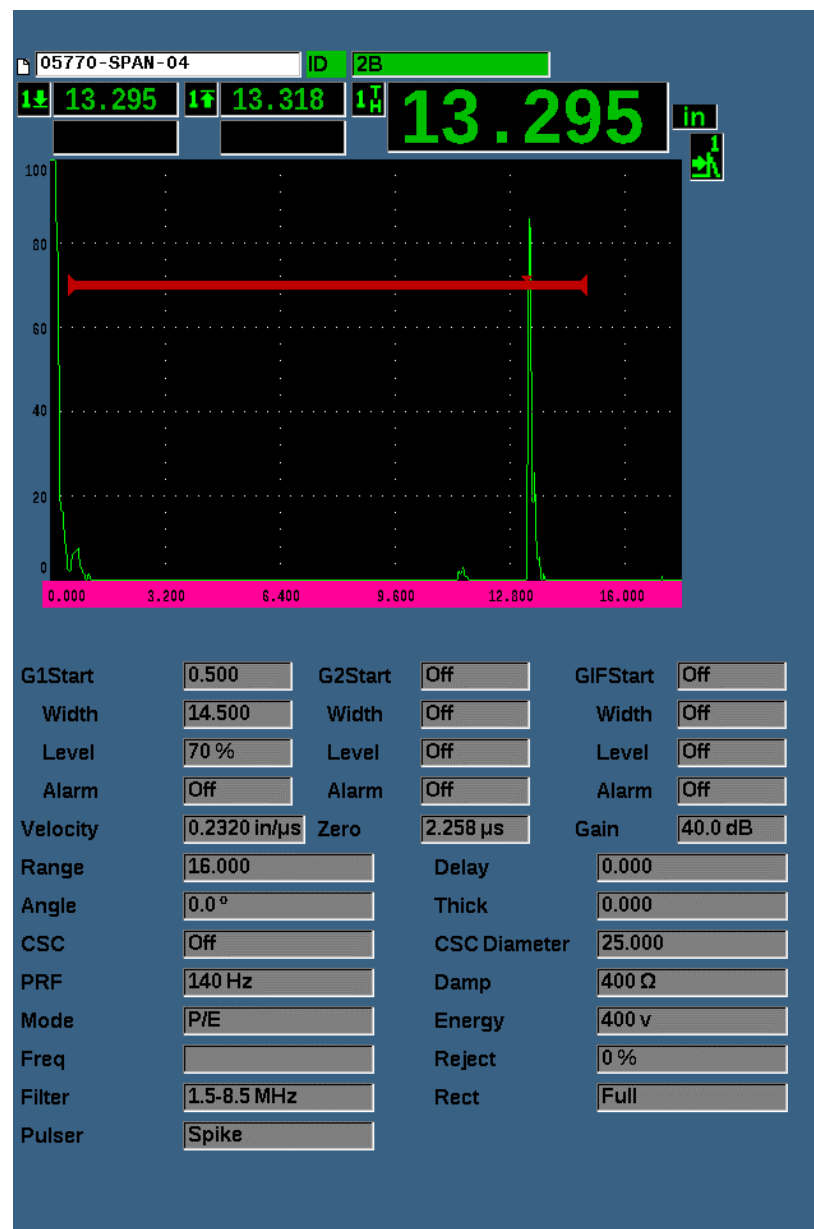
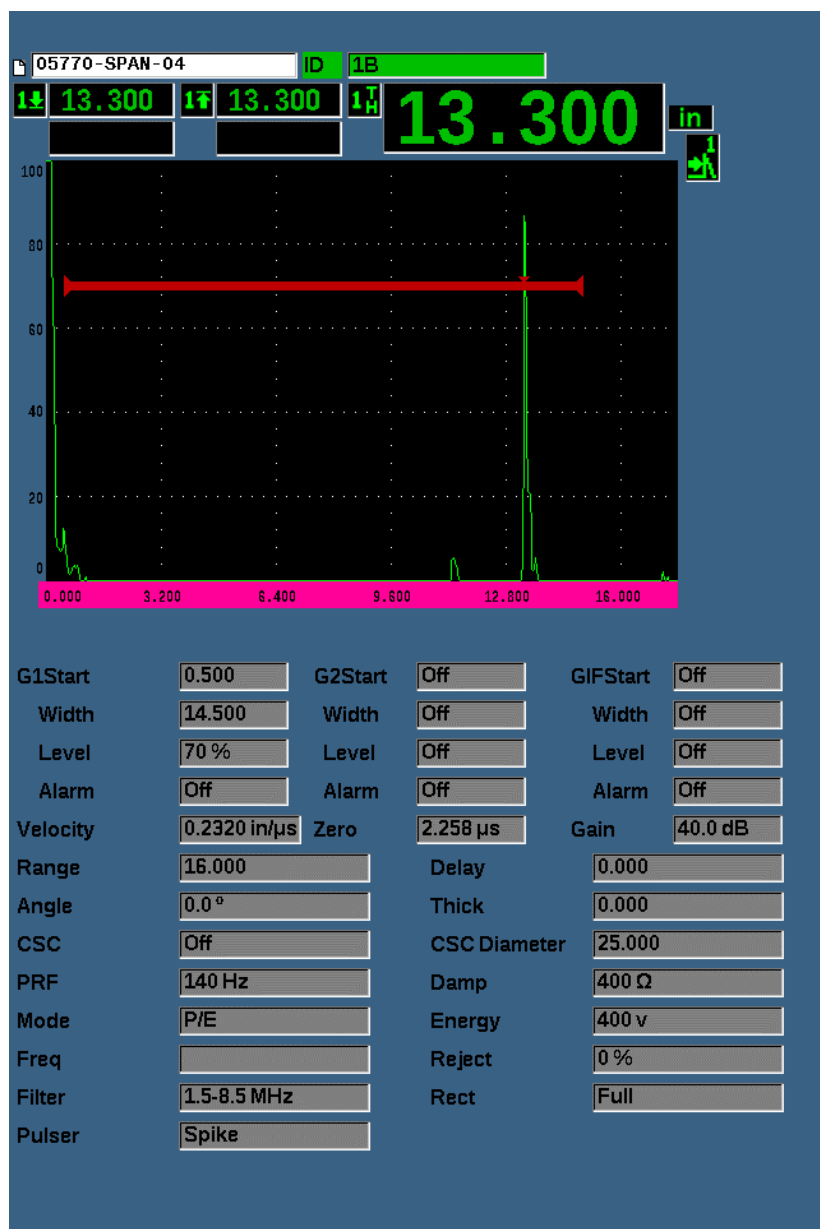
2 = BOTTOM

A & B = GIRDERS 1 & 2

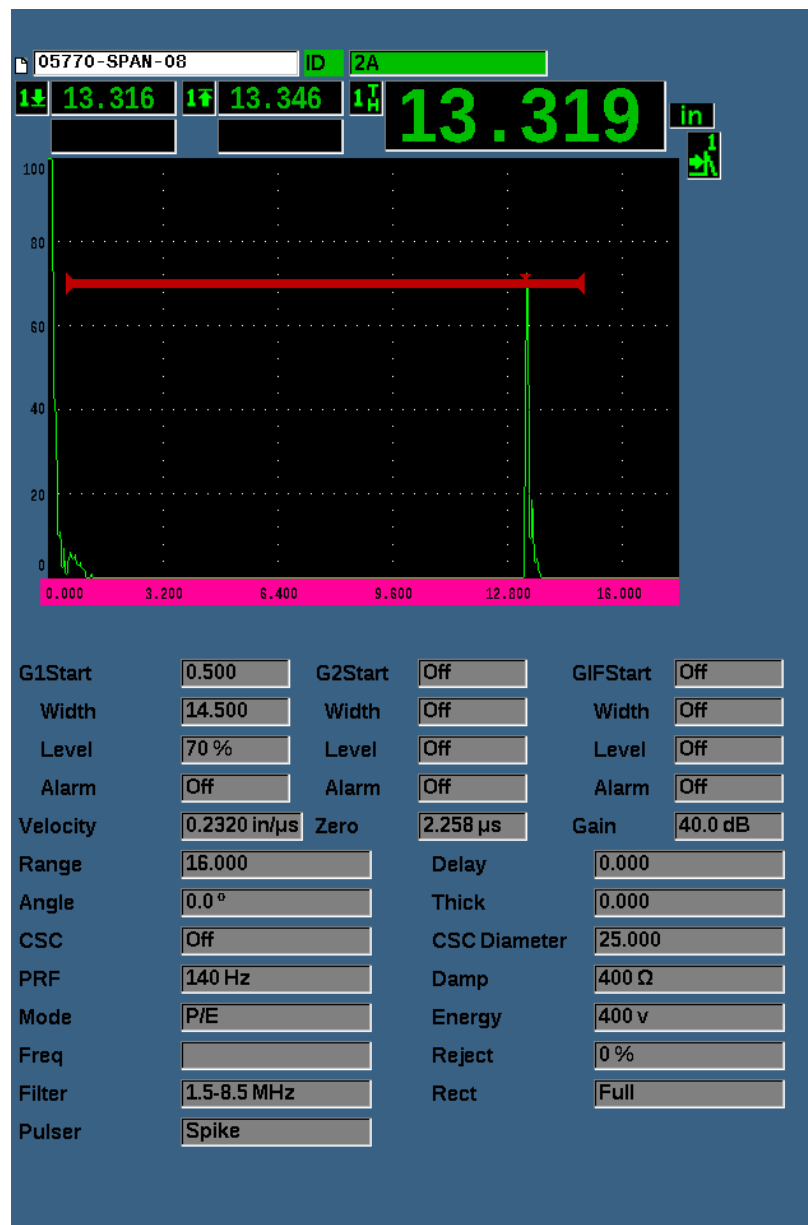
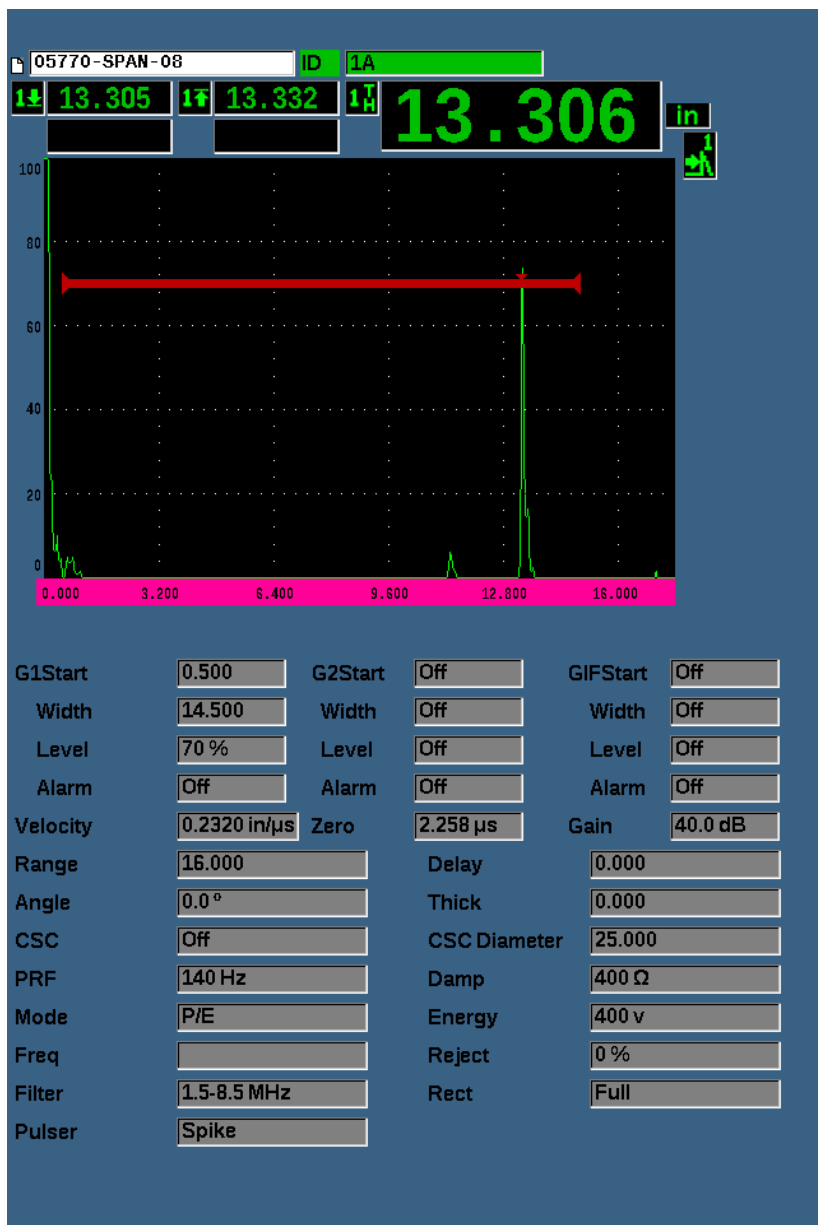
Span 04



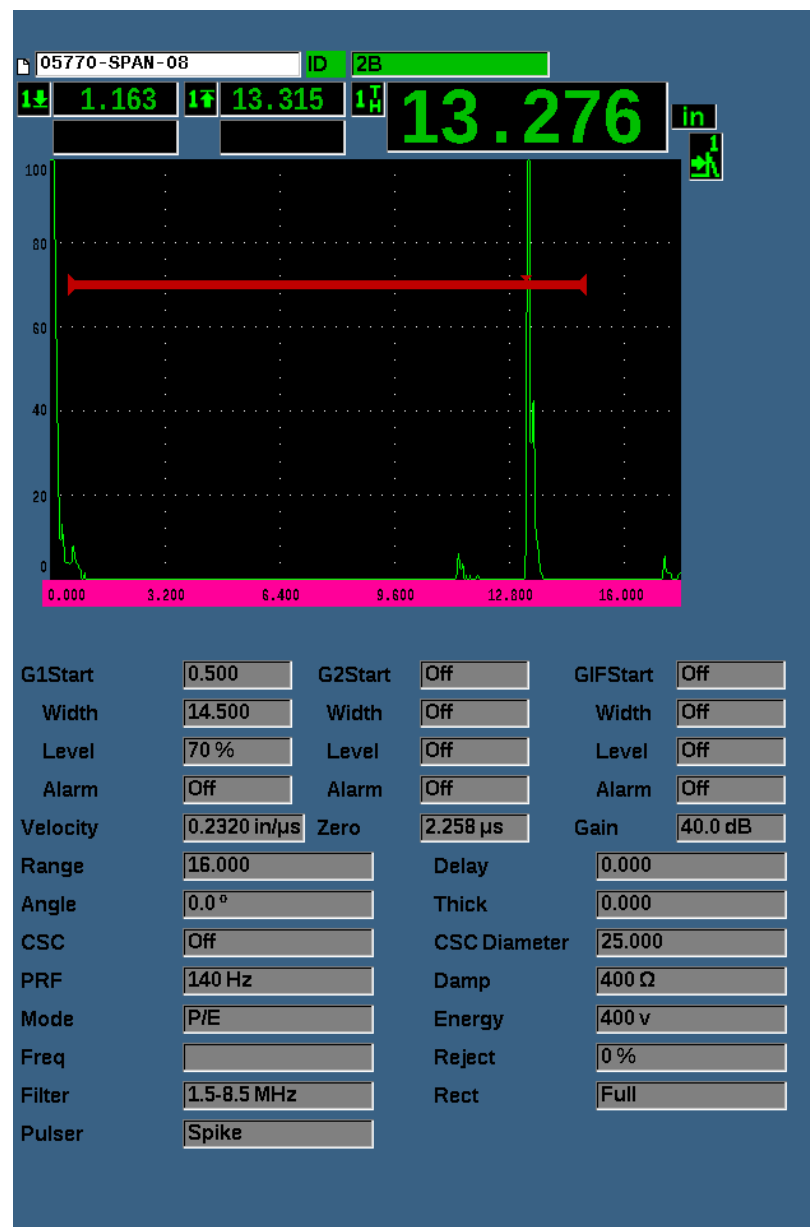
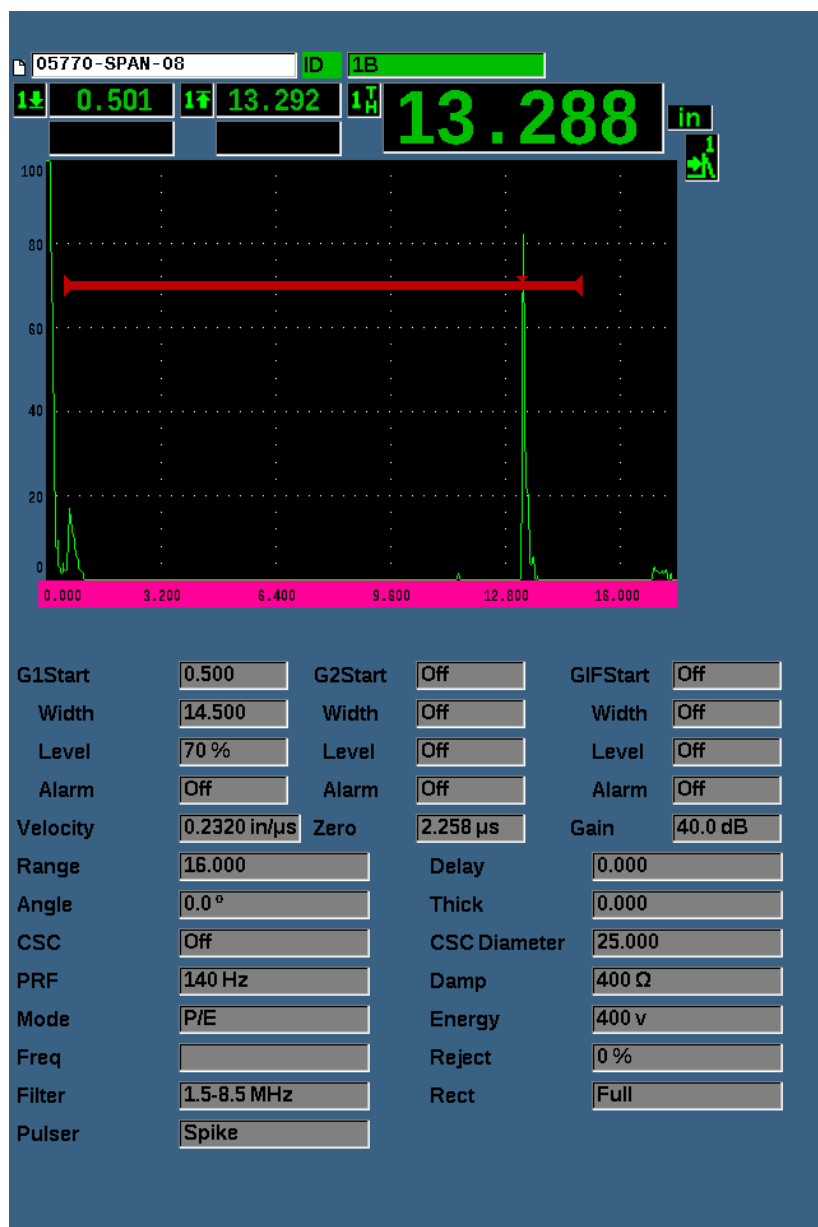
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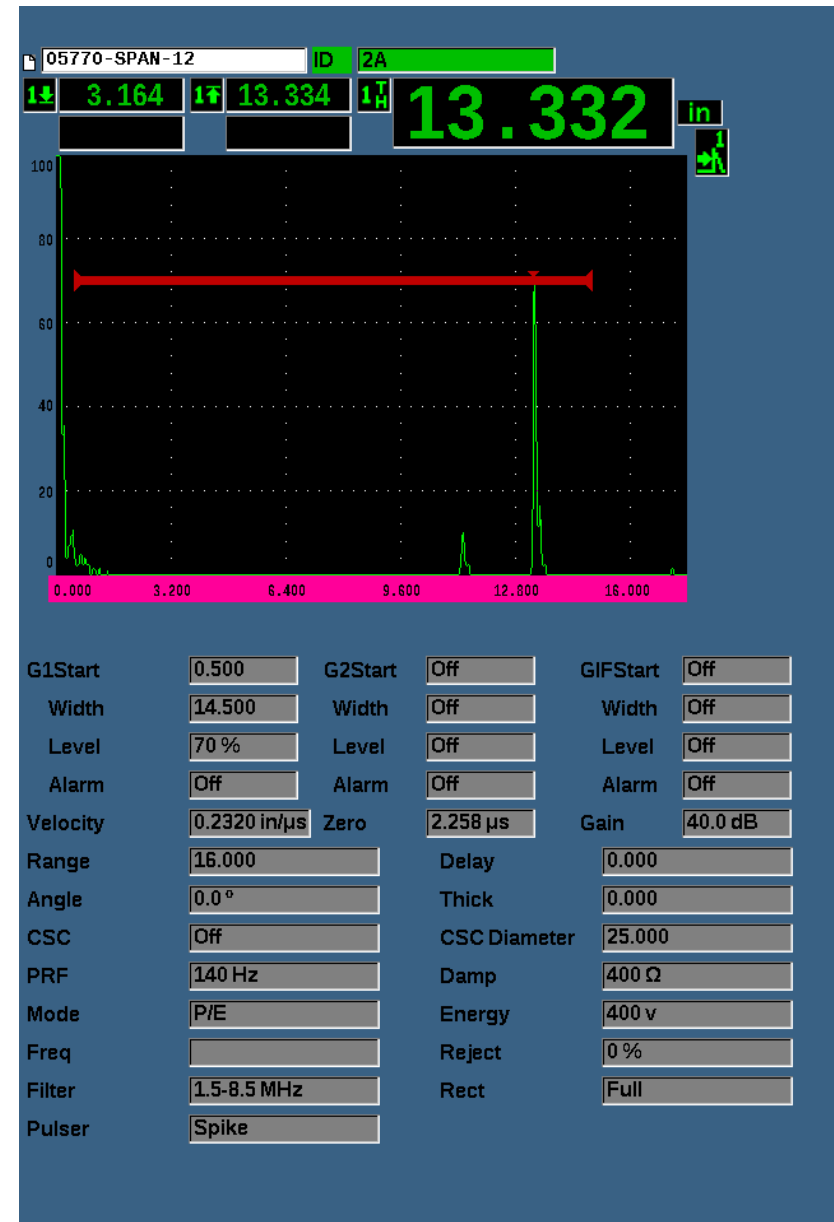
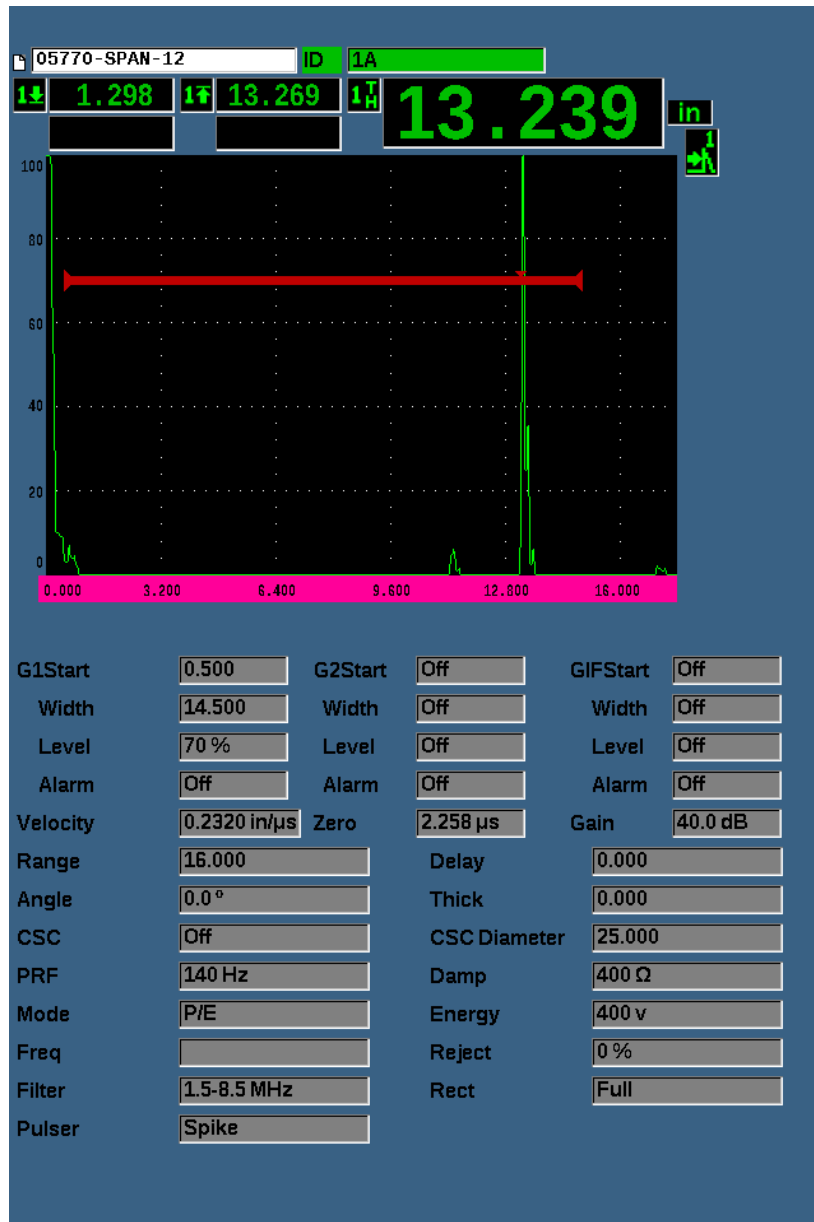
Span 08



Span 08



Span 12



Span 12

