

# Routine Inspection of Stalwart Bridge

Bridge Inspection


Complete

Inspection score	Failed items	Created actions
<b>75.44%</b>	<b>0</b>	<b>1</b>
Audit Title Routine Inspection of Stalwart Bridge		
Document No. 005628		
Client / Site Amaranth Corp Redux		
Conducted on Unanswered		
Prepared by Jonathan Conner		
Location Manhattan, New York		
Personnel Jason Lamb - Program Manager Stanley Bruce - Team Leader Jenny Mara - Load Rater		

## Actions

1 Action

SafetyCulture Staff created a High priority action for

**To Do**  7th Feb, 2020 7:05 PM +08

**Check and apply silicone seal for reinforcement.**



Check and apply silicone seal for reinforcement.

Joint Condition

**Audit / DECK**

# Audit

1 Action 75.44%

Bridge # <b>008-4/5-2.95(01214)</b>
📅 5th Feb, 2020 🕒 6:20 PM +08
Photo 1 - Upstream Face
– Photos  Photo 1
Photo 2 - Downstream Face
– Photos  Photo 2
Photo 3 - Approach From North/West Unanswered
Photo 4 - Approach From South/East Unanswered
Photo 5 - Unanswered
Photo 6 - Unanswered

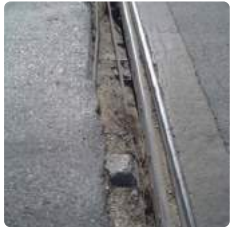
## BRIDGE ENDS

Bridge Open/Posted/Closed	Open
Posting Signs Required?	Yes
Posting Signs in Place?	Yes
Bridge Rail (36a)	Good
Rail Transition (36b)	Good
Approach G'Rail (36c)	Good

Guard Rail Ends (36d)	Good
Bridge End General Comments: In good condition and would require no repair and maintenance work for the next few months.	
Additional Photo If Necessary Unanswered	
Additional Photo If Necessary Unanswered	
Additional Photo If Necessary Unanswered	
Additional Photo If Necessary Unanswered	

**DECK**

1 Action

Joint Condition	Poor
<p>– Photos</p>  <p>Photo 3</p> <p>– Actions</p> <p><b>ToDo</b> Check and apply silicone seal for reinforcement.</p>	
Drain Condition	Fair
Rail Condition	Fair
<p>– Notes</p> <p>Nothing notable aside from natural wear and scratches.</p>	
Sidewalk Condition	Fair
Live Load Deflection/Vibration	Moderate
Debris Accumulation on Deck	Light
Overall Deck Condition	Fair
NBI Deck Cond. 9-Excellent; 8-No Problems Noted, 7-Mnr Problems; 6-Mnr Deterioration; 5-Mnr Cracking; 4-Adv Deterioration; 3-Loss of Section; 2-Monitor Closely/Close Til Repair; 1-Br Closed til Repair; 0-Beyond Repair	7 From 1 to 10

Deck General Comments <b>Aside from minor joint repair work, everything else is in good condition.</b>
Additional Photo If Necessary Unanswered
Additional Photo If Necessary Unanswered
Additional Photo If Necessary Unanswered
Additional Photo If Necessary Unanswered

**SUPERSTRUCTURE**

Girders	Fair
Diaphragms	Fair
Stringers	Fair
Floor Beams	Fair
Sway Bracing	Fair
Hangers	Fair
Paint	Fair
Cap/Girder Debris	Light
– Notes Minor debris cleared out during inspection	
Collision Damage	No
Have Flood Waters Reached Superstructure?	No
NBI Superstructure Cond. 9-Excellent; 8-No Problems Noted, 7-Mnr Problems; 6-Mnr Deterioration; 5-Mnr Cracking; 4-Adv Deterioration; 3-Loss of Section; 2-Monitor Closely/Close Til Repair; 1-Br Closed til Repair; 0-Beyond Repair	<b>8</b> From 1 to 9
General Super Structure Comments <b>No necessary repair or maintenance work for now.</b>	
Additional Photo If Necessary Unanswered	
Additional Photo If Necessary Unanswered	
Additional Photo If Necessary Unanswered	

Additional Photo If Necessary

Unanswered


## SUBSTRUCTURE

NBI Superstructure Cond. 9-Excellent; 8-No Problems Noted, 7-Mnr Problems; 6-Mnr Deterioration; 5-Mnr Cracking; 4-Adv Deterioration; 3-Loss of Section; 2-Monitor Closely/Close Til Repair; 1-Br Closed til Repair; 0-Beyond Repair

1

From 1 to 9

## Abutments

Bearings	Fair
Cap	Fair
Piling Foundations	Fair
Pile Type	Prestressed Concrete 14"
Back Wall	Fair
- Notes No noticeable damage.	
- Photos 	
Photo 4	
Embankment	Fair
Slope Protection	Fair
Scour	Light
Additional Photo if Necessary Unanswered	
Additional Photo if Necessary Unanswered	
Additional Photo if Necessary Unanswered	
Additional Photo if Necessary Unanswered	

## Intermediate Bents

Bearings	Fair
Cap	Fair
Piles/Columns	Fair
Pile Type	Prestressed Concrete 14"
Footings	Fair
Web Walls	Fair
Bracing	Fair
Scour	Light
Additional Photo if Necessary Unanswered	
Additional Photo if Necessary Unanswered	
Additional Photo if Necessary Unanswered	
Additional Photo if Necessary Unanswered	
NBI Substructure Cond. 9-Excellent; 8-No Problems Noted, 7-Mnr Problems; 6-Mnr Deterioration; 5-Mnr Cracking; 4-Adv Deterioration; 3-Loss of Section; 2-Monitor Closely/Close Til Repair; 1-Br Closed til Repair; 0-Beyond Repair	<b>8</b> From 1 to 9
Underwater Inspection Req'd?	No
General Substructure Comments No current issues after checking for cracked or spalled areas of substructure.	

**Scour/Waterway Appraisal**

Scour Critical (113)	8-Br. Stable w/ Scour Above Top of Footing
Scour Indicator Notes: (Describe scour condition) found no scour or undercutting around the piers	
Scour Countermeasures in Place?	Yes
Debris/Drift Upstream?	No
Debris/Drift Site?	No
Debris/Drift Downstream?	No
Overall Channel Condition	Fair

Indications that High Waters Overtop Structure and/or Approach Roadway?	Rarely
Waterway Adequacy (71) 9-Chance of O.T. Remote; 8-Slight Chance of O.T. Approaches; 7-Slight Chance of O.T. Bridge; 6-Approach Only O.T., Insign. Delay; 5-Approach Only O.T., Sign. Delay; 4-Occas. Br & Appr. w/ Sign. Delay; 3-Freq. O.T. of Br. & Appr. w/ Sign. Delay; 2-Freq. O.T., Sev. Delay; 0-Br. Cl.	<b>9</b> From 1 to 9
NBI Channel Rating (61) 9-No Deficiencies; 8-Stable Condition; 7-Bank Needs Minor Repair; 6-Bank Slumping, Light Debris; 5-Bank Eroding, Moderate Debris; 4-Severe Damage; Large Amts of Debris; 3-Bank Failed, Threatening Br.; 2-Br. Near Collapse; 1-Br. Closed Due to Channel; 0-Br. Perm. Closed	<b>8</b> From 1 to 9
Route Functional Classification (26)	Unanswered
General Waterway/Scour Comments: Previous reports have noted minor scour at both piers; with no significant changes over the years. Today's inspection shows low risk for scour.	
Additional Photo if Necessary Unanswered	
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Additional Photo if Necessary Unanswered	

**Inspection Team Summary**

General Notes Bridge is in good condition. No necessary repair or maintenance work needed based off the data gathered today. Next routine inspection is scheduled for Feb 2021.
Additional Photo if Necessary Unanswered
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Additional Photo if Necessary Unanswered
Additional Photo if Necessary Unanswered



Additional Photo if Necessary Unanswered	
Additional Photo if Necessary Unanswered	
Additional Photo if Necessary Unanswered	
Team Leader	Jason Lamb, P.E.

# Media summary

4 Photos



Photo 1



Photo 2



Photo 3



Photo 4