New York State Department of Transportation
Red Flag 3B190TW044

By: Thomas Barrell
Flag Date: September 12, 2019

Superseding Information:
No Flags Superseded

**Structure Information**

BIN: 3209800
Region: 03 - SYRACUSE

Feature Carried: FREESE ROAD
County: TOMPKINS

Feature Crossed: FALL CREEK
Political Unit: Town of DRYDEN

Orientation: 8 - NORTHWEST
Approximate Year Built: 1920

Posted Load Matches Inventory: Yes

Bridge Load Posting (Tons): 15

Primary Owner: 30 - County

Primary Maintenance Responsibility: 30 - County

Typical or Main Span Type: 3 - Steel, 10 - Truss - Thru

This Bridge is not a Ramp

Number of Spans: 2

**Verbal Notification Information**

Person Notified: Arthur Petrozzi
Date: September 12, 2019 2:30:00 PM

Of: NYSDOT Region 3

**Signature Information**

Signature: Thomas Barrell, P.E. 087058-1
Date: September 17, 2019

Reviewed By: Glenn Klein
Date: September 17, 2019

Attachments: 5
Flagged Elements

<table>
<thead>
<tr>
<th>Parent Element</th>
<th>Element</th>
<th>Total Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Span Number : 1</td>
<td>113 - Steel Stringer</td>
<td>331</td>
<td>ft</td>
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Flagged Condition Description

Subject: Cracked, Crippled, and Buckled Stringer Webs in Span 1

Structure Information:
This structure is a two span continuous pony truss with a floorbeam and stringer floor system supporting an open steel grate deck (photo 1). The stringers are noted to be 12"27#WF in the plans in the BIN folder (tw=0.24" and tf=0.4").

2019 Conditions:
The stringer webs over the floorbeams in span 1 exhibit lower web section loss, cracks, and web crippling/buckling at several locations. All locations listed below are newly discovered:

-Stringer 2, Panel 1 at Floorbeam 1: 3/8" long crack to the lower web and it appears that the web has slightly crippled at the base. (photo 2)

-Stringer 2, Panel 2 at Floorbeam 1: 1/8" long crack to the lower web and it appears that the web has slightly crippled at the base. (photo 2)

-Stringer 3, Panel 1 at Floorbeam 1: 5/8" long crack to the lower web.

-Stringer 4, Panel 2 at Floorbeam 1 is buckled 5/16" to the Right at approx. mid-height. There is no section loss to the web. (photo 3)

-Stringer 2, Panel 2 at Floorbeam 2: 2" long crack surrounded by approx. 50% section loss to the lower web. There is also a hole to the Right side bottom flange at the floorbeam. Overall bottom flange section loss is approx. 50%. (photo 4)

-Stringer 2, Panel 3 at Floorbeam 2: 1" long crack surrounded by approx. 50% section loss to the lower web. (photo 4)

-Stringer 2, Panel 4 at Floorbeam 3: 1/2" long crack surrounded by approx. 50% section loss to the lower web. (photo 5)

Note:
Two apparent overloads crossed the bridge during this inspection (large box trucks).
<table>
<thead>
<tr>
<th>Photo Number:</th>
<th>1</th>
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<tbody>
<tr>
<td>Photo Filename:</td>
<td>19-3209800-DSCF0288.JPG</td>
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**Attachment Description:** General View of Underside of Span 1, Looking Back
Attachment Description: Stringer 2 Lower Webs at Floorbeam 1 (Panels 1 and 2), Looking Right
| Photo Number: | 3 | Photo Filename: | 19-3209800-DSCF0259.JPG |

**Attachment Description:** Stringer 4, Panel 2 at Floorbeam 1, Looking Ahead
| Photo Number: | 4 | Photo Filename: | 19-3209800-DSCF0265.JPG |

**Attachment Description:** Stringer 2 Lower Webs and Bottom Flanges at Floorbeam 2 (Panels 2 and 3), Looking Left
| Photo Number: | 5 | Photo Filename: | 19-3209800-DSCF0283.JPG |

**Attachment Description:** Stringer 2 Lower Web at Floorbeam 3 (Panel 4), Looking Left and Ahead