

## Bridge Approach Speed Investigation

Bridge #198 over Kelly Creek on SR 1536 (James Porter Rd)  
Bladen County  
Project Number 17BP.6.PE.1



Document Prepared By:

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### Principal Investigator

DocuSigned by:

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Elizabeth E. Hartzog  
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### Project Manager

DocuSigned by:

*Kelly L. Becker* 8/23/2018

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Kelly L. Becker, PE  
Project Manager



| Slip Number     | Division | County | Location Description                                               | Latitude  | Longitude  |
|-----------------|----------|--------|--------------------------------------------------------------------|-----------|------------|
| BladenBridge198 | 6        | Bladen | SR 1536 (James Porter Rd) from 500ft S of Bridge 198 to Bridge 198 | 34.485769 | -78.321283 |

# Bridge and Approach Investigation Checklist

Project 17BP.6.PE.1  
 Description Bridge 198 over Kelly Creek  
 Route SR 1536 (James Porter Rd)  
 Division 6  
 County Bladen

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable  
 Passenger Car Speed 15

Ball Bank Speed Study (if necessary) N/A

Warning Signs at Bridge Object markers on each bridge corner - 1x OMR and 1x OML each approach  
Weight Limit Signs on each bridge approach - 1x each approach

Roadside Development Rural/Residential/Agricultural

AADT History 90 vpd, 2015 (based on engineering judgement due to no available count station)

Pedestrian/Bicycle Traffic Minimal expected.

Bridge and Approach  
 Digital Photos Included in bridge speed packet

Approach Lane Width 12'

Approach Shoulder Width: 2'  
 Shoulder Type Grass

Lane Width (existing bridge) 12'

Shoulder width (existing bridge) N/A

Strategic Corridor / Thoroughfare  
 Designation and Recommended  
 Cross Section Rural

Crash History and  
 Safety Considerations Zero (0) crashes have been reported in the vicinity of the bridge from  
07/01/2008 to 06/30/2018 (10 years).

Comments The road consists of dirt and gravel.  
There was a dead end just north of the bridge.  
There are no curves in the road affecting the bridge speed.  
There is graffiti on signs near bridge

**Reasonable Bridge Speed** 25\*

\*Consideration for a higher design speed should be given due to the possibility of roadway being paved and/or extended in the future.

Investigated by: Elizabeth Hartzog 08/13/2018 Reviewed by: Kelly Becker, PE 08/17/2018

**County:** Bladen

**Description:**

Bridge 198 on SR 1536

**Date:** 08-13-18

**SR 1536 SB Approach to Bridge 198**

**SR 1536 SB Approach to Bridge 198**



**SR 1536 NB Approach to Bridge 198**

**SR 1536 NB Approach to Bridge 198**



**County:** Bladen

**Description:**

Bridge 198 on SR 1536

**Date:** 08-13-18

**Profile View of NB Approach to Bridge 198**



**Profile View of SB Approach to Bridge 198**



