

Bridge Approach Speed Investigation

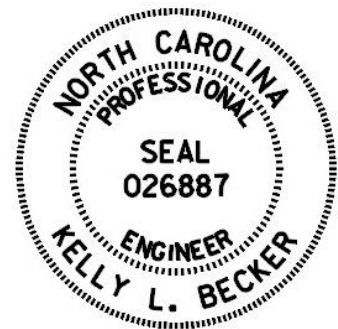
Bridge #108 over Indian Swamp on SR 2269 (Bloomingdale Rd)
Robeson County
Project Number 17BP.6.PE.1



Document Prepared By:

HNTB North Carolina, P.C.
343 E. Six Forks Rd
Raleigh NC, 27609
NC License No: C-1554

August 23, 2018



Principal Investigator

DocuSigned by:

Elizabeth E. Hartzog

8/23/2018

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Elizabeth E. Hartzog
Traffic Engineer

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
770108	6	Robeson	SR 2269 (Bloomingdale Rd) from 500ft E of Bridge 108 to 500ft W of Bridge 108	34.43707	-79.03829

Bridge and Approach Investigation Checklist

Project 17BP.6.PE.1
 Description Bridge 108 over Indian Swamp
 Route SR 2269 (Bloomingdale Rd)
 Division 6
 County Robeson

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable
 Passenger Car Speed 35

Ball Bank Speed Study Curve west of bridge in WB direction: 12 @ 35 mph, 10 @ 30 mph
 (if necessary) Curve west of bridge in EB direction: 10 @ 35 mph, 5 @ 30 mph

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 1,000 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 8'

Approach Shoulder Width: 12'
 Shoulder Type Grass

Lane Width (existing bridge) 8'

Shoulder width (existing bridge) 5'-6'

Strategic Corridor / Thoroughfare
 Designation and Recommended
 Cross Section Minor Collector, Rural

Crash History and
 Safety Considerations No crashes have been reported in the vicinity of the bridge from 07/1/2008
to 06/30/2018 (10 years).

Comments No curve advisory signs were posted. There is a sharp curve west of bridge.
Loose Gravel 35 MPH signs are posted west of bridge at dead end.
Object markers on SB approach were both leaning.

Reasonable Bridge Speed 35

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

County: Robeson

Description:

Bridge 108 on SR 2269

Date: 08-13-18

SR 2269 EB Approach to Bridge 108



SR 2269 EB Approach to Bridge 108



SR 2269 WB Approach to Bridge 108



SR 2269 WB Approach to Bridge 108



County: Robeson

Description:

Bridge 108 on SR 2269

Date: 08-13-18

Profile View of WB Approach to Bridge 108



OML Sign Leaning on WB Approach



Profile View of EB Approach to Bridge 108



OMR Sign Leaning on WB Approach



**North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Strip Analysis Report**

Study Criteria Summary

County: ROBESON **City:** All and Rural
Date: 07/01/2008 to 06/30/2018 **Study:** ROBESONBRIDGE108
Location: SR 2269 (Bloomingdale Rd) from 500ft E of Bridge 108 to 500ft W of Bridge 108

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
ROBESONBRIDGE108				76.8	8.4	1000	40002269

Request Date	Courier Service	Phone No.	Ext.	Fax No.
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County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
ROBESON	78	6	All and Rural		0	07/01/2008	06/30/2018	10.00

Location Text	Requestor
SR 2269 (Bloomingdale Rd) from 500ft E of Bridge 108 to 500ft W of Bridge 108	

Excluded Accidents
103285454

Fiche Roads	
Name	Code
SR 2269	40002269
BLOOMINGDALE	50002952

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 2269	40002269	0.994	1.194	0.200	0.322