

Bridge Approach Speed Investigation

Bridge # 020142 over Potato Creek on SR 1319 (Piney Post Office Rd)
Alleghany County
Project Number 17BP.11.R.133



Document Prepared By:

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

Principal Investigator

DocuSigned by:
Sheena Green 1/5/2017
5F1A1A9604CA4EC...

Sheena Green
Traffic Engineer

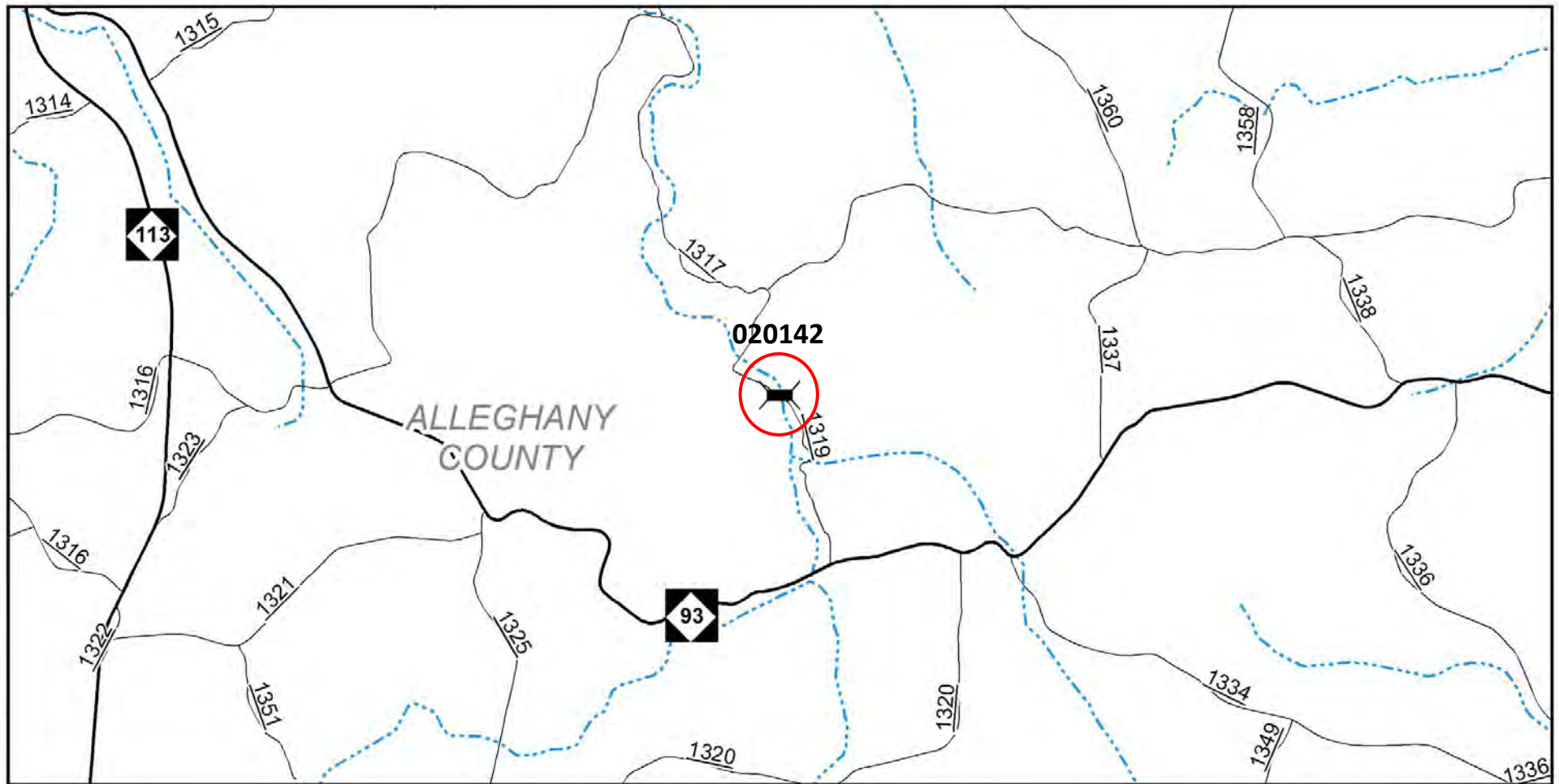
Project Manager

DocuSigned by:
Bradley Reynolds 1/5/2017
61F83373E9F2436...

Bradley Reynolds, PE
Project Manager

Division 11 - Alleghany County

Design Build Year 6/7 Bridge Program



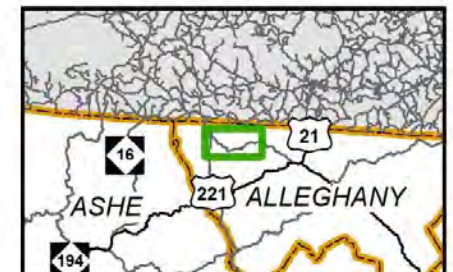
Structure Number	Division	County	Structure Description	Latitude	Longitude
020142	11	Alleghany	Bridge #020142 over Potato Creek	36.55042	-81.26395



HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554



1 in = 2,500 ft
SCALE



Bridge and Approach Investigation Checklist

Project 17BP.11.R.133

Description Bridge #020142 over Potato Creek

Route SR 1319 (Piney Post Office Rd)

Division 11

County Alleghany

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 20 mph

Speed Data No speed data was collected; no traffic was present.

Ball Bank Speed Study Curve on NB approach ball banks: 5 @ 20 mph
Curve on SB approach ball banks: 5 @ 20 mph

Warning Signs at Bridge Object Markers (OM-3L & OM-3R) on each bridge approach
Weight Limit Signs - 1 x each approach

Roadside Development Rural/Residential/Agricultural

ADT History 300 vpd from Crash Analysis
AADT count not available for study location. Crash AADT calculated based on engineering judgment.

Pedestrian/Bicycle Traffic N/A

Bridge and Approach Digital Photos Attached

Approach Lane Width 12' overall pavement width with one (1) 12' lane

Approach Shoulder Width: Varies from 2-3'
Shoulder Type Grass

Lane Width (existing bridge) 18' overall pavement width with 9' lanes

Shoulder width (existing bridge) 0'

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section Local, Rural

Crash History and Safety Considerations No crashes have been reported in the vicinity of the bridge from 11/1/2006 to 10/31/2016 (10 years).

Comments Gravel - One lane roadway
Curvy road with hill South of bridge, Slower speeds are necessary
Consider a higher design speed of 35 mph if road would be paved in future.

Reasonable Bridge Speed 25 mph

SR 1319 (Piney Post Office Rd) Northbound $\pm$ 250' from Bridge #142



SR 1319 (Piney Post Office Rd) Northbound $\pm$ 50' from Bridge #142



SR 1319 (Piney Post Office Rd) Southbound $\pm$ 250' from Bridge #142



SR 1319 (Piney Post Office Rd) Southbound $\pm$ 50' from Bridge #142



View of Bridge #142 Looking Southeast



View of Bridge #142 Looking Southwest



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

Study Criteria Summary

County: ALLEGHANY **City:** All and Rural
Date: 11/1/2006 **to** 10/31/2016 **Study:** ALLEGHANYBRIDGE142
Location: SR 1319 (Piney Post Office Rd) from 500 feet north of Bridge 142 to 500 feet south of the bridge

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
ALLEGHANYBRIDGE142				76.8	8.4	300	40001319

Request Date	Courier Service	Phone No.	Ext.	Fax No.
--------------	-----------------	-----------	------	---------

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
ALLEGHANY	3	11	All and Rural		0	11/1/2006	10/31/2016	10.00

Location Text	Requestor
SR 1319 (Piney Post Office Rd) from 500 feet north of Bridge 142 to 500 feet south of the bridge	

Fiche Roads	
Name	Code
SR 1319	40001319
POST OFFICE	50024654
PINEY	50024259

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1319	40001319	0.344	0.538	0.194	0.312