

Bridge Design Speed Investigation

Bridge #372 on SR 1346 (Stevens Creek Road) over Stevens Creek
Haywood County



Document Prepared By:

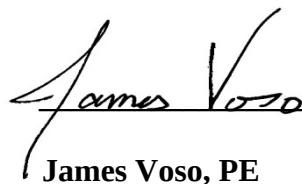
Mattern & Craig, Inc.
Consulting Engineers - Surveyors
12 Broad Street
Asheville, NC 28801
(828) 254-2201
FAX: (828) 254-4562

Commission No: 3356

June 28, 2013



Investigating Engineer


James Voso, PE

Bridge and Approach Investigation Checklist

Project 17BP.14.PE.1
Description Replace Bridge #372 on SR 1346 (Stevens Creek Road) over Stevens Creek
Route SR 1346 (Stevens Creek Road)
Division 14
County Haywood

Existing Speed Limit 25 mph ☒ Posted ☐ Statutory

Reasonable & Comfortable
Passenger Car Speed 20 mph

Speed Data N/A

Ball Bank Speed Study Curve west of Bridge #372 had a ball bank indication of 10 at 20 mph.

Warning Signs at Bridge 4 Bridge End Delineators, Weight Limit not posted, One Lane Bridge warning sign

Roadside Development Residence in northwest quadrant of bridge. Wooded in northeast quadrant of bridge. Farm land south of bridge.

ADT History 220 (2000)

Pedestrian/Bicycle Traffic Low

Bridge and Approach
Digital Photos (attached)

Approach Lane Width 8'

Approach Shoulder Width: 6'
Shoulder Type grass

Lane Width (existing bridge) 12.5' one lane

Shoulder width (existing bridge) 3'

Strategic Corridor / Thoroughfare
Designation and Recommended
Cross Section Not a Strategic Corridor/Thoroughfare. Two lane cross section at 20 mph based on 3R guidelines.

Crash History and
Safety Considerations No crashes reported near bridge (4/1/2003 - 3/31/2013, 10 years).

Comments Driveways located at both ends of bridge. Bridge number posted on bridge. Curve located east of bridge does not impact travel speed across bridge. Road transitions from paved to gravel at west end of bridge.

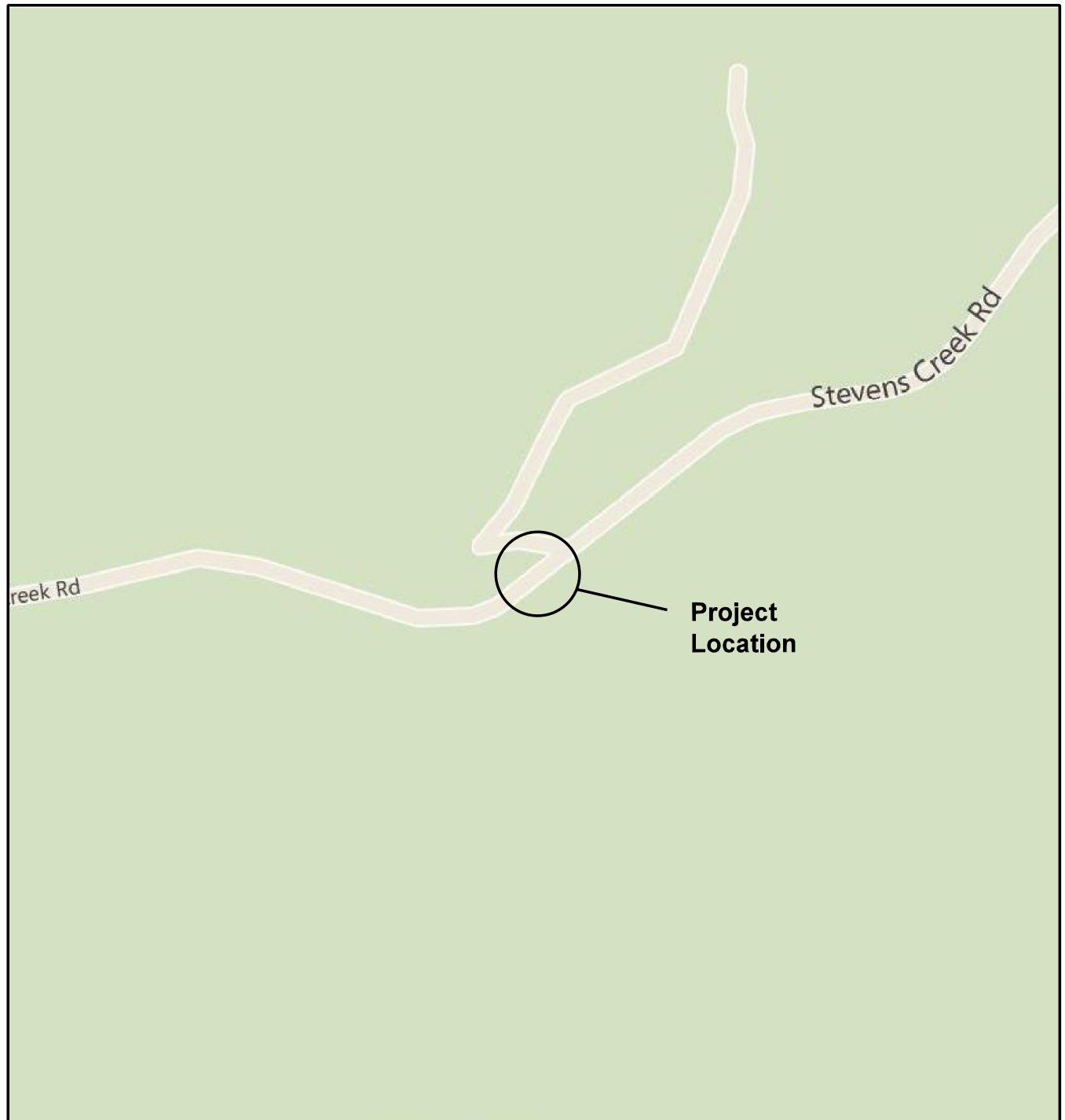
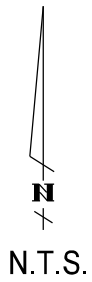
Reasonable Bridge Speed 20 mph

Investigated by: Mathew Bolden Reviewed by: James Voso

Bridge #372

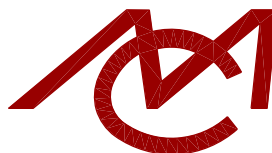
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VICINITY MAP

Bridge #372 on SR 1346
(Stevens Creek Road)
over Stevens Creek



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Bridge #372
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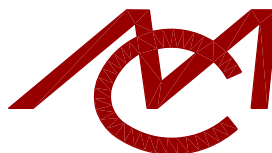


Eastbound Approach



Eastbound Approach at bridge

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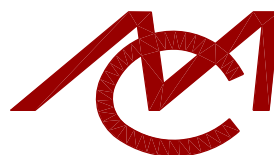


Westbound Approach



Westbound Approach at bridge

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

Study Criteria Summary

County: HAYWOOD **City:** All and Rural
Date: 4/1/2003 **to** 3/31/2013 **Study:** HAYWOODBRIDGE372
Location: SR 1346 (Stevens Creek Rd) from 500 feet west of Bridge 372 to 500 feet east of the bridge

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
HAYWOODBRIDGE372				76.8	8.4	220	40001346

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
HAYWOOD	43	14	All and Rural		0	4/1/2003	3/31/2013	10.00

Location Text	Requestor
SR 1346 (Stevens Creek Rd) from 500 feet west of Bridge 372 to 500 feet east of the bridge	

Fiche Roads	
Name	Code
SR 1346	40001346
WHITE OAK	50032752
STEVEN	50029160

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1346	40001346	2.374	2.568	0.194	0.312