

Bridge Design Speed Investigation

Bridge #35 on SR 1907 (Rhoney Road) over Creek
Burke County



Document Prepared By:

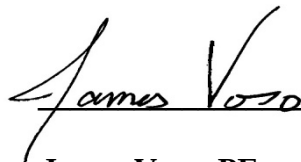
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Commission No: 3350

July 22, 2013



Investigating Engineer


James Voso, PE

Bridge and Approach Investigation Checklist

Project 17BP.13.PE.1
Description Replace Bridge #35 on SR 1907 (Rhoney Road) over Creek
Route SR 1907 (Rhoney Road)
Division 13
County Burke

Existing Speed Limit 55 mph ☐ Posted ☒ Statutory

Reasonable & Comfortable
Passenger Car Speed 45 mph

Speed Data N/A

Ball Bank Speed Study Curve east of Bridge #35 had a ball bank indication of 10 at 40 mph.

Warning Signs at Bridge 4 Bridge End Delineators, Weight Limit (17 tons - single vehicle,
24 tons - truck tractor semitrailer)

Roadside Development Farm land in all quadrants of bridge.

ADT History 1,100 (2011), 1,100 (2009), 1,200 (2007), 1,100 (2005), 1,200 (2003),
1,100 (2001), 1,100 (1999)

Pedestrian/Bicycle Traffic None

Bridge and Approach
Digital Photos (attached)

Approach Lane Width 9'

Approach Shoulder Width: 10'
Shoulder Type grass

Lane Width (existing bridge) 9'

Shoulder width (existing bridge) 4'

Strategic Corridor / Thoroughfare
Designation and Recommended
Cross Section Not a Strategic Corridor/Thoroughfare. Two lane cross section at 45
mph based on 3R guidelines.

Crash History and
Safety Considerations No crashes reported near bridge (5/1/2003 - 4/30/2013, 10 years).

Comments Bridge number posted on bridge.

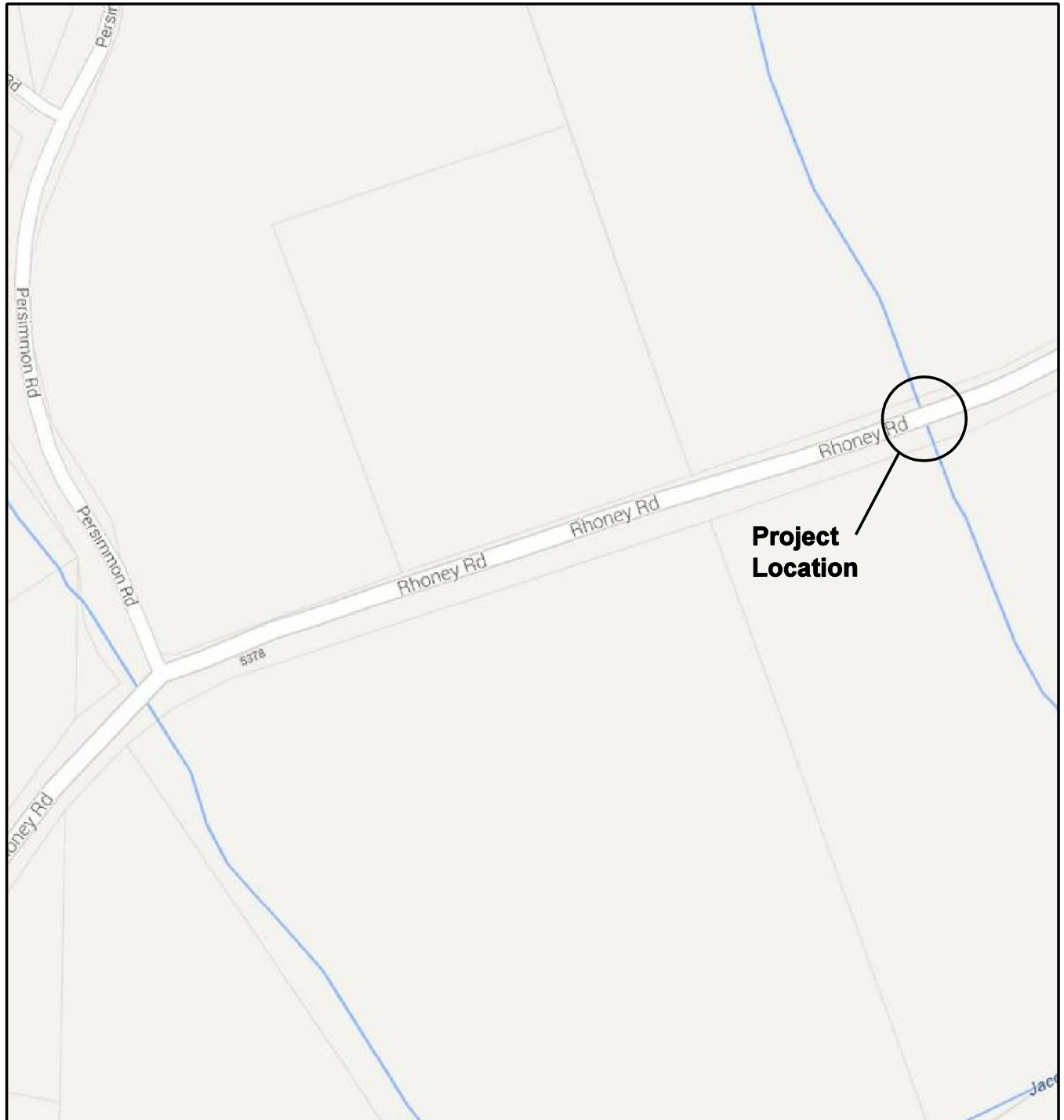
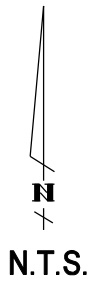
Reasonable Bridge Speed 45 mph

Investigated by: Mathew Bolden Reviewed by: James Voso

Bridge #35

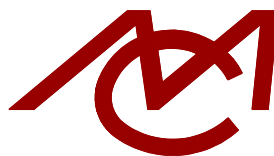
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VICINITY MAP

Bridge #35 on SR 1907
(Rhoney Road)
over Creek



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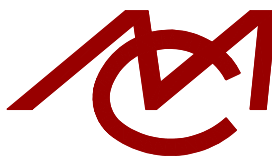


Eastbound Approach



Eastbound Approach at bridge

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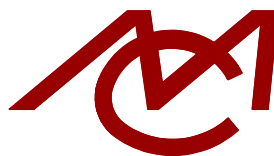


Westbound Approach



Westbound Approach at bridge

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