

Bridge Design Speed Investigation

Bridge #1 on SR 1547 (Whitt Branch Road) over Little Ivy Creek
Madison County



Document Prepared By:

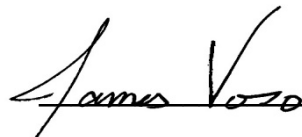
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Commission No: 3350

July 22, 2013



Investigating Engineer


James Voso, PE

Bridge and Approach Investigation Checklist

Project 17BP.13.PE.1
Description Replace Bridge #1 on SR 1547 (Whitt Branch Road) over Little Ivy Creek
Route SR 1547 (Whitt Branch Rd)
Division 13
County Madison

Existing Speed Limit 55 mph ☐ Posted ☒ Statutory

Reasonable & Comfortable
Passenger Car Speed 25 mph

Speed Data N/A

Ball Bank Speed Study Curve east of Bridge #1 had a ball bank indication of 15 at 15 mph.

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

Roadside Development Wooded in the northwest quadrant of bridge. Farm land in all other quadrants of bridge.

ADT History Not available

Pedestrian/Bicycle Traffic None

Bridge and Approach
Digital Photos (attached)

Approach Lane Width 9'

Approach Shoulder Width: 5'
Shoulder Type grass

Lane Width (existing bridge) 11' one lane

Shoulder width (existing bridge) 1.5'

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 (5/1/2003 - 4/30/2013, 10 years).

Comments SR 1540 (Beach Glen Rd) intersects SR 1547 at the western terminus of the bridge. Bridge number not posted on bridge.

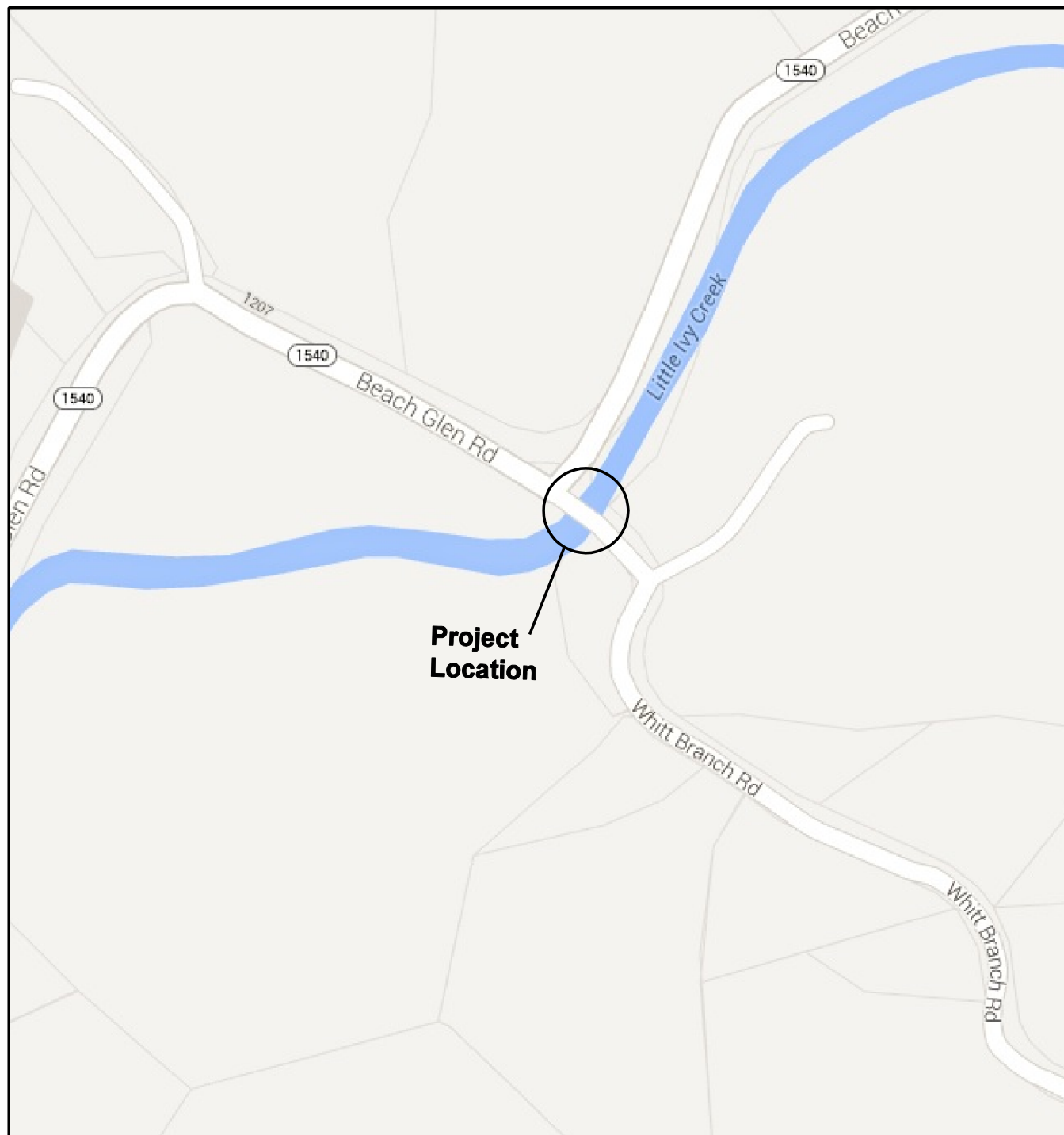
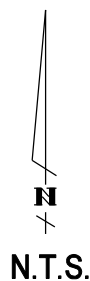
Reasonable Bridge Speed 20 mph

Investigated by: Mathew Bolden Reviewed by: James Voso

Bridge #1

Madison County

Division 13



VICINITY MAP

Bridge #1 on SR 1547
(Whitt Branch Road)
over Little Ivy Creek



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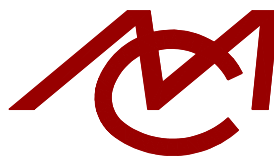


Eastbound Approach



Eastbound Approach at bridge

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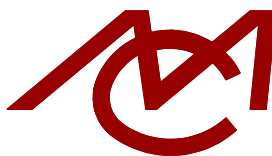


Westbound Approach



Westbound Approach at bridge

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