
Bridge Design Speed Investigation

480282

Structure #282 on SR 1828 (Welch Mill Road) over N. Hunting Creek

Iredell County



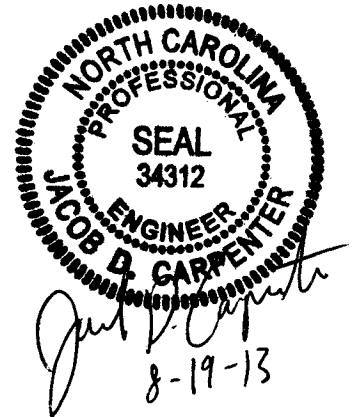
Document Prepared By:

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August 19, 2013

Principal Investigator & Project Manager

Jacob D. Carpenter, PE
Regional Manager



Bridge and Approach Investigation Checklist

Project W02866

Description Bridge # 282 over N. Hunting Creek

Route SR 1828 (Welch Mill Road)

Division 12

County Iredell

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed N/A - Bridge Closed

Speed Data N/A - Bridge Closed

Ball Bank Speed Study N/A - Bridge Closed

Warning Signs at Bridge 4x Bridge End Delineators, 2x Weight Limit (25 ton SV, 30 ton TTST)
2x Curve Ahead (one 25 mph advisory speed, one 35 mph advisory speed)
4x Barriers/Road Closed at Bridge

Roadside Development Residential, Wooded

ADT History 230 vpd (2011)

Pedestrian/Bicycle Traffic Minimal expected

Bridge and Approach Digital Photos Attached

Approach Lane Width 8.5 ft

Approach Shoulder Width 0-1 ft paved
Shoulder Type 4-8 ft grass

Lane Width (existing bridge) 9 ft

Shoulder width (existing bridge) 3 ft (~24 ft total width)

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section SR 1802 is classified as a local rural facility in the Statewide Functional Classification System. 2-lane cross-section recommended.

Crash History and Safety Considerations Crash analysis completed for 5/1/2003 to 4/30/2013. No collisions reported.

Comments Curves located on both ends of bridge. Bridge closed off to vehicular traffic. Estimated resonable bridge speed between 45-55 mph based only on observation of roadway section since bridge could not be traveled in-vehicle.

Reasonable Bridge Speed N/A See Comments

Investigated by: Jacob D. Carpenter, PE

Reviewed by: 

County: Iredell

Bridge and Route: 480282 – SR 1828 Welch Mill Road

Date: 8/15/13

Northbound



Northbound

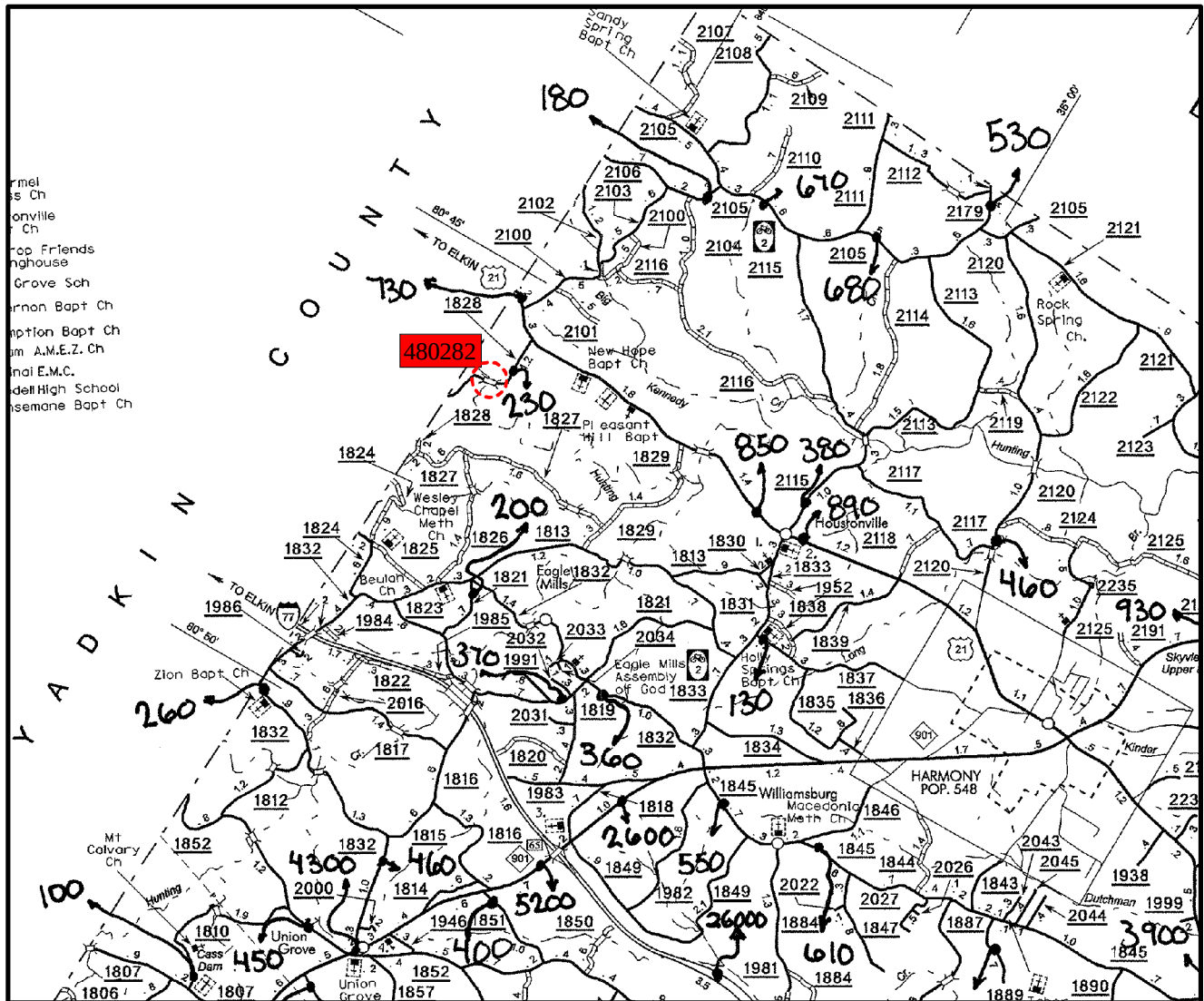


Southbound



Southbound





Bridge Location Map - Bridge #480282

