



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

MEMORANDUM TO: Bridge Inspectors & Supervisors
Structure Inventory & Appraisal

FROM: G. R. Perfetti, P. E.
State Structures Engineer

DATE: November 15, 2013

SUBJECT: Item 36 – “Traffic Safety Features” for Culverts

At the request of the Federal Highway Administration, guidelines have been established for coding Traffic Safety Features (Item 36) on the Structure Inventory and Appraisal sheet for culverts. The guidelines are as follows:

- If $ADT \leq 750$, code Item 36A as “N”
- If $ADT > 750$ and the posted speed is 45mph or less, code Item 36A as:
 - “N” – if guardrail is not in place and the shoulder width is 15’ or more
 - “0” – if guardrail is not in place and the shoulder width is less than 15’
 - “1” – if guardrail is in place
- If $ADT > 750$ and the posted speed is greater than 45mph, code Item 36A as:
 - “N” – if guardrail is not in place and the shoulder width is 18’ or more
 - “0” – if guardrail is not in place and the shoulder width is less than 18’
 - “1” – if guardrail is in place

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Effective immediately, the shoulder width shall be measured at each headwall and documented in WIGINS. It will be the inspector's responsibility to document the left and right shoulder width and posted speed each inspection cycle. Structure Inventory & Appraisal will determine the proper code for Item 36A.

The Inspection Manual will be updated at a later date.

GRP/BCH/KAW

Cc: H. A. Black, P. E.
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