

TITLE IV STREETS, ROADS, PUBLIC WAYS AND TRANSPORTATION

CHAPTER 7 CONSTRUCTION AND RECONSTRUCTION OF ROADWAYS AND BRIDGES ON THE CLINTON COUNTY SECONDARY ROAD SYSTEM

4-7-1 Purpose

4-7-3 Design Criteria

4-7-2 Level of Service

4-7-1 PURPOSE. The purpose of this ordinance is to establish Clinton County's policy for the construction of roads, reconstruction of roads, construction of bridges, reconstruction of bridges and other roadway and drainage features associated with road and bridge construction.

4-7-2 LEVEL OF SERVICE. The level of service shall be based on traffic counts, roadway classification, pavement type, roadway geometrics and other data used in accepted engineering design as established by the County Engineer, Iowa Department of Transportation and the Federal Highway Administration.

4-7-3 DESIGN CRITERIA. In implementation, this policy shall set the minimum design standards that Clinton County will follow in the construction or reconstruction of roads and bridges. These criteria shall be based on accepted engineering practices and standards established by the Iowa Department of Transportation and the Federal Highway Administration.

The County Engineer shall assure the minimum design standards established herein are adhered to in a uniform manner unless, in his or her professional judgment, a deviation from standards is warranted. Minimum design standards are not subject to discretionary enforcement. Any deviations must be documented as unreasonable and or impossible to implement by the County Engineer and/or the County Board of Supervisors.

PAVED ROUTES

1. New Pavement:

a. New pavement shall be constructed with a 22' wide pavement and a minimum three feet wide granular shoulder. Intersections with non-paved roads shall have pavement extended back onto the intersecting road 50' beyond the end of the intersection radius.

b. Paved shoulders and edge line rumble stripes shall be constructed if crash data warrants based on accepted HSIP and TSIP cost/benefit analysis.

c. Concrete rumble strips shall be installed on all approach stop situations.

d. Safety edge shall be incorporated into new construction projects when the proposed new pavement thickness will be greater than three inches thick.

2. Reconstruction of Pavement

- a. Paved roads shall be reconstructed with a 22' wide pavement or to the previous pavement width, whichever is greater with granular shoulders.
- b. Concrete rumble strips shall be installed on all approach stop situations not located in residential areas.
- c. Safety edge shall be incorporated into reconstruction (rehabilitation) projects when the proposed new pavement thickness will be greater than three inches thick.

UNPAVED ROADS

1. Gravel Roads:
 - a. New construction of a gravel road shall have a 28' finished top, including shoulders.
 - b. Reconstruction of a gravel road shall be to the previous width prior to reconstruction.
2. Class B & C Roads:
 - a. Class B and C roads will be built to the minimums as outlined by Iowa Code.

BRIDGES & Drainage Structures

1. Paved Routes:
 - a. Bridges on paved routes shall be built with a minimum width of 30'. Wider structures will be installed when there are issues relating to oversized vehicles, pedestrian facilities, biking usage or other issues where the additional width is warranted.
 - b. Culverts under paved roads shall be concrete or metal.
 - c. Pipe culverts larger than 54" in diameter may be substituted with reinforced box culverts.
 - d. Design for drainage structures will be governed by accepted hydraulic design standards. Input from IDNR, Corp of Engineers, Iowa DOT, NRCS, or USGS may impact the size and type of the structure to be placed.
 - e. Water and livestock will use separate structures whenever possible.
2. Unpaved Routes:
 - a. Bridges will normally be a minimum of 28' on gravel roads. Dead end roads may be narrower at the discretion of the County Engineer
 - b. Culverts may be metal or concrete. Pipe culverts larger than 54" in diameter may

be substituted with reinforced box culverts.

c. Design for drainage structures will be governed by accepted hydraulic design standards. Input from IDNR, Corp of Engineers, Iowa DOT, NRCS, or USGS may impact the size and type of the structure to be placed.

d. Water and livestock will use separate structures whenever possible.

3. Class B & C Roads

Class B and C roads will be built to the minimums as outlined by Iowa Code.

4. Entrance Bridges

Any and all bridges/drainage structures that are fully or partially in the road right-of-way that serve as entrances to private property from the public roadway shall not be under the jurisdiction and responsibility of the County. Clinton County will not be financially responsible for construction, replacement or maintenance of private property entrance structures.

(Ord. 2015-05, Passed October 19, 2015)