

Chapter Hy 34

COUNTY TRUNK HIGHWAY STANDARDS

Hy 34.01 General  
Hy 34.02 Effective date of compliance

Hy 34.03 Deviations from the standards  
Hy 34.04 Project review

Hy 34.01 General. (1) Pursuant to chapter 84, section 84.01 (9) (b), Wis. Stats., the Highway Commission, hereinafter referred to as the commission, prescribed these rules relating to improvement projects for the construction, reconstruction and processes incidental to building, fabricating or bettering a county trunk highway but not maintenance. Maintenance work includes all those measures and activities necessary to preserve the highway facility, as nearly as possible, in the condition of its construction. Maintenance work generally involves no changes in horizontal alignment, roadway widths, or grade.

(2) Effective date of compliance. Any county trunk highway improvement project, where construction is started after January 1, 1972, shall follow the rules stated herein.

History: Cr. Register, September, 1971, No. 189, eff. 10-1-71.

Hy 34.02 County trunk highway standards. (1) GEOMETRIC DESIGN. The minimum geometric design standards to be applied to county trunk highway improvement projects shall be:

MINIMUM DESIGN STANDARDS FOR COUNTY TRUNK HIGHWAYS

DESIGN CLASS	TRAFFIC VOLUME	ROADWAY							STRUCTURE			
	ADT CURRENT	ROADWAY WIDTH	SURFACING WIDTH	MIN. SHOULDER WIDTH	HOR. CURVE		% GRADE		SIGHT DISTANCE	HWY LOAD	CLEAR RDWY. WIDTH FOR STRUCT.	MIN. R/W WIDTH
					DES. MAX.	MAX.	DES. MAX.	MAX.	SSD			
C 1	Under 50	24	20	2	12°-30'	23°-00'	8%	11%	200	H15	24	4 Rods
C 2	50 - 250	28	20	4	7°-00'	12°-30'	7%	10%	275	H15	28	4 Rods
C 3	250 - 400	32	22	5	4°-30'	7°-30'	6%	8%	350	H20	32	4 Rods
C 4	400 - 1000	34	22	6	4°-00'	7°-30'	4%	8%	350	H20	34	4 Rods
C 5	Over 1000	44	24	10	3°-30'	5°-00'	3%	6%	475	H20	44	4 Rods

## LEGEND

R/W = Right of Way	% = Percent
MAX. = Maximum	SSD = Stopping Sight Distance
DES. = Desirable	STRUCT. = Structure
MIN. = Minimum	RDWY. = Roadway
HWY. = Highway	HOR. = Horizontal

(2) DEFINITIONS. (a) *Current average daily traffic (ADT)*. The average 24-hour volume, being the total volume during a stated period divided by the number of days in that period. Unless otherwise specified, the period is one year.

(b) *Roadway width*. The portion of a highway including shoulders, for vehicular use. A divided highway has 2 or more roadways.

(c) *Surfacing width*. The portion of the roadway, exclusive of shoulders, for the movement of vehicles. This portion of the roadway may also be referred to as the traveled way.

(d) *Shoulder width*. The portions of the roadway between the traveled way and the inside edges of slopes of ditches or fills exclusive of auxiliary lanes, curbs, and gutters.

(e) *Horizontal curve*. Any change in direction on a horizontal plane based on circular curvature.

(f) *Percent grade*. The rate of rise or fall of the surface of the roadway measured along the centerline expressed as a percentage. Thus a 1% grade will rise or fall one foot in 100 feet.

(g) *Sight distance (stopping sight distance)*. The distance required by a driver of a vehicle, traveling at the average speed for a given highway design speed, to bring his vehicle to a stop after an object on the roadway becomes visible. The height of eye in this case is 3.75 feet and the height of object is 6 inches.

(h) *District engineer*. The Wisconsin Department of Transportation, Division of Highways, District Office, District Engineer.

(i) *Highway load*. The highway live load for which the structures on the county trunk highway are to be designed. These live loads are based upon the current edition of "Standard Specifications for Highway Bridges" as published by the American Association of State Highway Officials.

**History:** Cr. Register, September, 1971, No. 189, eff. 10-1-71.

**Hy 34.03 Deviations from the standards.** (1) Deviations from these standards as outlined in section Hy 34.02 may be authorized in special cases where the strict application of these standards may be impractical and where such deviation is not contrary to the public interest, safety, and the intent of section 84.01 (9) (b), Wis. Stats. Any deviation from the rules herein shall be approved by the district engineer in writing.

**History:** Cr. Register, September, 1971, No. 189, eff. 10-1-71.

**Hy 34.04 Project review.** (1) On or before December 1 of each year the county highway commissioner shall file with the district engineer a report for his county certifying that any and all county trunk highway improvement projects for which funds were expended or obligated during that year were in conformance with the minimum standards established pursuant to section 84.01 (9) (b) Wis. Stats. The

certification shall be on forms prescribed by the commission. All county trunk highway improvement projects shall be reviewed by the district engineer for compliance with the standards stated herein. If any county has not complied with these standards the district engineer shall notify the county in writing stating the items which are non-complying. When such non-complying projects have subsequently been made to comply with the standards, the district engineer shall so certify on forms designated for this purpose by the commission. If on July 1 of any year there are any remaining non-complying projects which have not been made to comply, as certified by the district engineer, they shall be reported by the commission to the Highway Advisory Committee of the Legislative Council.

**History:** Cr. Register, September, 1971, No. 189, eff. 10-1-71.