

DATE: March 27, 1986

TO: ROADWAY DESIGN, STATE-AID, BRIDGE AND TRAFFIC DIVISION

FROM: Brooks O. Nichols, Asst. Chief Engineer - Design

SUBJECT: Design Speed on Federal Aid Projects

For Federal aid projects on the local and collector systems, the design speed-design element issue shall be addressed as follows:

One of the attached design data forms shall be submitted to the Federal Highway Administration for their concurrence on each federal aid project that has not advanced beyond the environmental handling stage. This procedure is in effect immediately.

Design Data Form No. 1 shall be used where the selected design speed meets the Green Book, but is below the posted or regulatory speed. If the selected design speed does not conform to the Green Book, additional justification must be supplied FHWA.

Design Date Form 2 shall be used where a posted speed limit less than the regulatory speed limit will be imposed corresponding to the design speed. I would expect very little use of this.

Design Date Form No. 3 shall be used where the design speed is the same as the regulatory speed limit. This could be applicable on relatively straight, level projects in some parts of our State.

Attachments

Handwritten:

Circulate Squad Leaders

DESIGN DATA FORM NO. 1

Letter to FHWA

RS-0000(1)
 State Job 4000
 Eddie to Nolan
 Washington County

Design data for the above project are as follows:

Current ADT = 50	Traveled Way width = 20 feet
Rolling Terrain	Shoulder width = 4 feet
Design Speed = 40 mph	Bridge width = 28 feet

Design speed for this project exceeds the minimum value in the AASHTO Green Book for a highway of this type. It is not anticipated that regulatory speed signs will be posted on this project at the time of completion. The regulatory speed limit, in absence of a posted speed, is 55 mph on this project. Pertinent speed related design elements are indicated below:

<u>Element</u>	<u>Design Speed</u>	<u>Treatment Proposed</u>
Lane Width	55 mph	NA
Shoulder Width	55 mph	NA
Bridge Width	55 mph	NA
Horizontal alignment	40 mph	Curve Warning Signs and Speed Plates
Grades	50 mph	None
Stopping Sight Distance Road, Advance		40 mph Cross- Crossing and Hill Signs if applicable
Horizontal Clearance To Obstructures	40 mph	Guardrail, Signing, Striping

Your concurrence in the above design information is requested.

DESIGN DATA FORM NO. 2

Letter to FHWA

RS-0000(1)
State Job 4000
Eddie to Nolan
Washington County

Design data for the above project are as follows:

Current ADT = 350
Rolling Terrain
Design Speed = 40 mph

Traveled Way width = 20 feet
Shoulder width = 4 feet
Bridge width = 28 feet

Design speed for this project exceeds the minimum value in the AASHTO Green Book for a highway of this type. It is anticipated that project will be posted for 40 mph at time of completion.

Your concurrence in the above design data is requested.

DESIGN DATA FORM NO. 3

Letter to FHWA

RS-0000(1)
State Job 4000
Eddie to Nolan
Washington County

Design data for the above project are as follows:

Current ADT = 350
Rolling Terrain
Design Speed = 55 mph

Traveled Way width = 20 feet
Shoulder width = 4 feet
Bridge width = 28 feet

Your concurrence in the above design data is requested.