

ENGINEERING DIRECTIVES AND STANDARDS

Volume	Chapter	Section	Directive Number	Effective Date
VI	2	1	9	4/17/2008

SUBJECT: HORIZONTAL ALIGNMENT ADVISORY SPEED SIGNS

1. PURPOSE: This directive establishes the Department's policy for horizontal alignment advisory speed signs. This policy shall serve as a supplement to and not replace the requirements of the Manual of Uniform Traffic Control Devices (MUTCD).

2. SCOPE: This policy governs on all State and federal highways.

3. POLICY:

A. Methods for determining horizontal alignment advisory speeds

1) Ball-bank indicator

- Described in the *ITE Traffic Control Devices Handbook*.
- See Table 1 for the ball-bank degree readings corresponding to the advisory speed.
- Evaluate both directions.

Table 1

Trial Run Speed (mph)	Ball-Bank Indicator (degrees)	Advisory Speed (mph)
15	≥14	15
20	≥14	20
25	12	25
30	12	30
35	10	35
45	10	45
50	10	50
55	10	55

2) Hand Calculations

- Use when the radius and the super elevation of the curve are known.
- There are 2 types (see *ITE Traffic Control Devices Handbook*)
 - Curves
 - Mathematical equation

B. Install advisory speed plates in multiples of 5 miles per hour up to the posted speed.

C. Use engineering judgment for lower advisory speeds

4. APPLICATION OF STANDARDS: These standards shall apply immediately to all new or replaced horizontal alignment advisory speed signs. The remainder of the State maintained system shall be brought into conformance with this policy as time permits.

5. OTHER ISSUANCES AFFECTED: All directives, memoranda or instructions issued heretofore in conflict with this directive are hereby rescinded.

6. IMPLEMENTATION: This directive will become effective immediately upon issuance.

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