INDIANA DEPARTMENT OF TRANSPORTATION

INTER-DEPARTMENT COMMUNICATION Standards Section – Room N642



Writer's Direct Line 232-6775

December 5, 2002

DESIGN MEMORANDUM No. 02-11 TECHNICAL ADVISORY

TO:	All Design, Operations, District Personnel, and Consultants
FROM:	<u>/s/ Anthony L. Uremovich</u> Anthony L. Uremovich Acting Design Policy Engineer
	Contracts and Construction Division
SUBJECT:	General Equations for Sag Vertical Curve Lengths at Undercrossings
EFFECTIVE:	Immediately

The general equations for sag vertical curve lengths at undercrossings shown in *Indiana Design Manual* Section 44-3.02(04) should be revised to read as follows:

1. Sight distance greater than length of vertical curve (S > L)

$$L = 2S - \left\{ \frac{800 \cdot [C - 0.5(h_1 + h_2)]}{A} \right\}$$
(Equation 44-3.5)

2. Sight distance less than or equal to length of vertical curve (S \leq L)

$$L = \frac{AS^2}{800[C - 0.5(h_1 + h_2)]}$$
 (Equation 44-3.6)

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