

**MINNESOTA DEPARTMENT OF TRANSPORTATION  
STATE AID FOR LOCAL TRANSPORTATION DIVISION**

**Technical Memorandum No. 05-SA-01**

**January 14, 2005**

**TO:** County Engineers  
City Engineers  
District State Aid Engineers

**FROM:**   
Julie Skallman  
State Aid Engineer

**SUBJECT:** Revised Sag Vertical Curve Chart

**IMPLEMENTATION AND EXPIRATION**

This Technical Memorandum will take effect immediately, and remain in effect until superseded or placed in the State Aid Manual.

**INTRODUCTION**

On December 18, 2003 Mn/DOT issued revised vertical curve charts for the Mn/DOT Road Design Manual chapter 3 reflecting revisions made to AASHTO's Policy on Geometric Design of Highways and Streets (Green Book).

**PURPOSE**

The purpose of this Technical Memorandum is to update Fig B(2) 5-892.211 - Sag Vertical Curves chart to reflect revised K values cited in the 2001 Green Book.

**GUIDELINES**

The SALT website at [http://www.dot.state.mn.us/stateaid/res\\_sa\\_tech\\_memos.html](http://www.dot.state.mn.us/stateaid/res_sa_tech_memos.html) includes this Technical Memorandum from which the attached Sag Vertical Curve Chart and super elevation charts may be downloaded. The SALT Website also contains the figures in the SA Manual under Resources, Chapter 200 Forms. **Note that although most of the sag curve lengths have decreased from the lengths listed in the previous chart, the minimum length of curves for 25 mph with  $A > 4$  are greater than the values in the previous chart.**

If you have any questions concerning this memorandum, please contact Merry Daher, Federal Aid Plans Engineer, at (651) 296-7067.

Attachments: Sag Vertical Curve Length Chart

cc: DSAA