



Any questions regarding publication of this Technical Memorandum should be referred to the Design Standards Unit, [DesignStandards.DOT@state.mn.us](mailto:DesignStandards.DOT@state.mn.us). A link to all active and historical Technical Memoranda can be found at <http://techmemos.dot.state.mn.us/techmemo.aspx>.

To add, remove or change your name on the Technical Memoranda mailing list, please visit the web page <http://techmemos.dot.state.mn.us/subscribe.aspx>

**Attachments:**

TM 18-05-TS-03