

**Warning: The following spec is an example and may not follow the most recent warranty criteria. This is a partial portion of Spec 2105. Contact Mn/DOT's Special Provision engineer for more information and updates..**

### **(2105) EXCAVATION AND EMBANKMENT**

#### S-1.1 DIFFERENTIAL SETTLEMENT WARRANTY

- (A) This section applies to settlement warranties on all new roadway subgrades constructed within the Project limits.
- (B) The warranted work shall include all subgrade excavation embankment, and aggregate base placed on the roadway below the pavements, including over culverts and utilities.
- (C) The term shall be *two years* from the date of Final Acceptance of the work.
- (D) Condition parameters used to measure settlement are surface differential settlement in the pavement. The differential settlement will be measured (both along the roadway profile and transversely between lanes, shoulders, and adjacent structures) using a straight-edge, 25-foot California profilograph, and/or the Department's pavement management distress van (i.e., analyzing the van data to emulate the profilograph measurement).
- (E) Table 2105-1 lists the allowable threshold limit within each segment. If any threshold limit is exceeded, corrective action (warranty work) is required. The defective segments for surface distress do not have to be contiguous to necessitate corrective action. Any pavement surface requiring removal or replacement to correct deficiencies for any condition parameter must be placed full-width across the driving lane or shoulder.
- (F) Table 2105-1 lists the corrective action that will apply to each condition parameter. The Contractor may implement an alternative action than listed in the table, subject to the Engineer's approval.

**TABLE 2105-1  
ALLOWABLE THRESHOLD LIMIT AND CORRECTIVE ACTIONS – DIFFERENTIAL  
SETTLEMENT OF NEW ROADWAY GRADE**

Condition Parameter	Segment Threshold Limit	Recommended Action
Pavement Surface Differential Settlement	< 0.50 inches in 25 feet longitudinally or 10 feet transversely	Spot milling and patching
Pavement Surface Differential Settlement	≥ 0.50 inches in 25 feet longitudinally or 10 feet transversely	Remove and replace pavement