Test Procedure for

MEASURING PAVEMENT TEMPERATURE

TxDOT Designation: Tex-829-B

Effective Date: August 1999

1. SCOPE

1.1 This method details the apparatus and procedure used to determine the temperature of pavement near the pavement's surface.

1.2 The values given in parentheses (if provided) are not standard and may not be exact mathematical conversions. Use each system of units separately. Combining values from the two systems may result in nonconformance with the standard.

2. APPARATUS

2.1 Pacific Transducer Corporation's Model 310 surface thermometer, or equivalent.

Note 1—The temperature scale is -10–150°C (0–300°F) with an accuracy of ± 2 degrees of scale range. (See Pacific Transducer Corporation's Data Bulletin TS-2A.)

3. PROCEDURE

3.1 Place the thermometer on the pavement surface.

3.2 Read the thermometer after it has been in contact with the pavement for 5 minutes.

3.3 Record the thermometer reading as the pavement temperature.

3.4 Repeat the above steps at intervals of 2 minutes until the temperature is relatively constant.

Note 2—When the wind velocity is over 15 mph, it may be advisable to place a 0.093 m² (1 ft²) cardboard shield with a small viewing hole over the thermometer.