



## WSDOT SOP 735

### *Standard Operating Procedure for Longitudinal Joint Density*

#### 1. GENERAL SCOPE

- a. In addition to the 5 random Quality Assurance (QA) density tests performed per compaction lot, one density test at each longitudinal joint will be performed on a confined or unconfined edge.

#### 2. LONGITUDINAL JOINT TESTING

- a. The longitudinal joint test will be conducted in accordance with WSDOT FOP for WAQTC TM-8, except “Test Site Location, Section 1, subsection c, which is modified by this procedure to read “No closer than 18 in. (450mm) to any vertical mass, or less than 6 in. (152 mm) from a vertical pavement edge,” making sure the gauge will sit flush with the hot-mix asphalt (HMA). See Figure 1.

*Note:* Hot lap joints are not included in longitudinal joint testing.

#### 3. NUMBER OF LONGITUDINAL JOINT TESTS

- a. One reading, at each longitudinal joint to be tested, will be taken within each compaction lot at the same station location as the third subplot. |

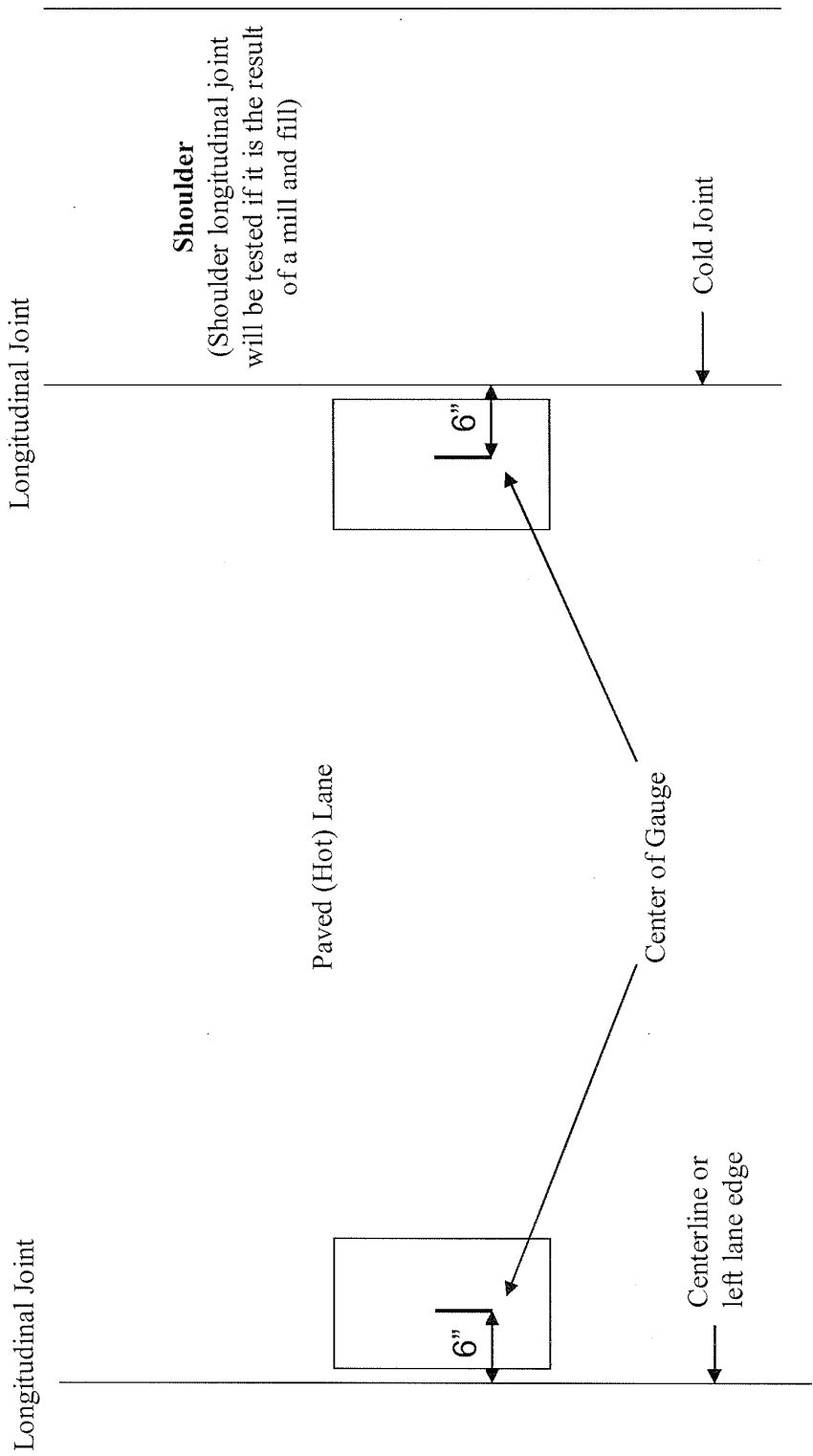
#### 4. CALCULATION OF RESULTS

- a. Calculate the Longitudinal Joint Density as defined in step 3b of WSDOT SOP 729.

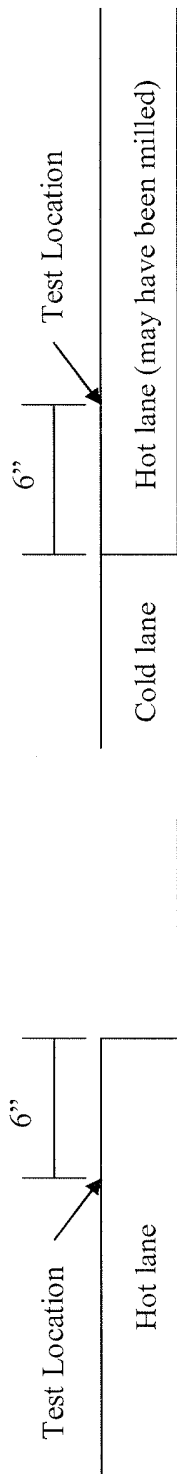
#### 5. REPORT

- a. Report the test results on the Data sheet Longitudinal Joint DOT Form 350-095 EF. |

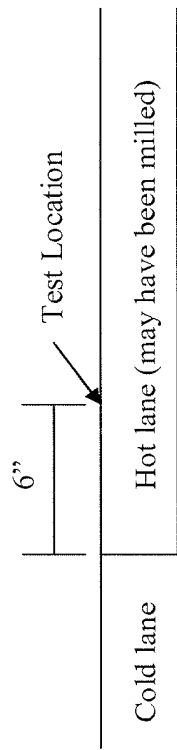
*Note:* Lot Number corresponds to the lot where the set of longitudinal joint readings were taken. The station corresponds to the station within the lot (i.e. third subplot) where the set of longitudinal joint readings were taken.



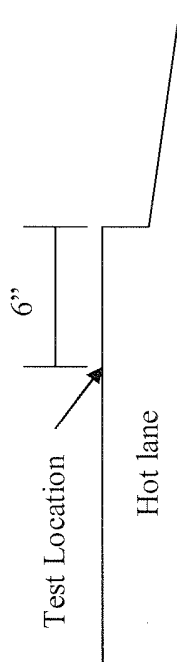
Longitudinal Joint Testing Locations  
Figure 1



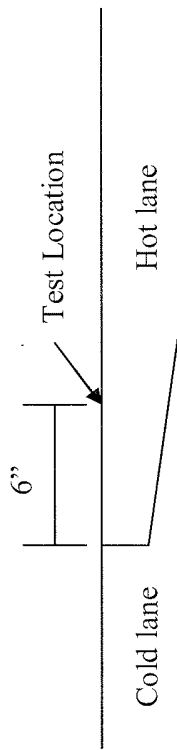
**Unconfined Edge**



**Confined Edge**



**Unconfined Notch Wedge**



**Confined Notch Wedge\***

\* The test location of a confined notch wedge may or may not be located on the slope of the cold lane paved.

**Longitudinal Test Location Examples**  
*Figure 2*

