Department of Public Works

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Modification to Special Provisions Sub-section 401.03.01.I.5 of the Clark County Construction Contracts

Industry Wide Notice
Las Vegas, NV

Too whom it may concern:

The following sections of the of the Clark County Special Provisions for Construction Contracts is being revised on current and future contracts:

Existing Sub-section 401.03.01.I.5 of the Clark County Special Provisions for the Construction Contracts states as follows;

Shear Bond Strength:

5. The shear bond strength between asphalt courses shall be at least an average of 60 pounds per square inch (psi) for a set of three cores tested per AASHTO TP 114-18 at 0.1 inches/minute, with no individual result less than 40 psi. After paving, the contractor shall obtain a set of three cores (4-inch or 6-inch diameter) per placement date per mix design for shear bond testing and deliver cores to the Engineer for testing. Core locations shall be obtained from random locations, except that random location shall be set back at least 2-feet from a curb, edge joint or seam. Additional samples may be obtained at the option of the Engineer.

   Shear bond strength less than 40 psi shall result in full removal and replacement. If the average shear bond strength is less than 60 psi and greater than 40 psi, the bid item reduction formula shall be used is as follows:

The Sub-section is being revised to read as follows:

Shear Bond Strength:

5. The shear bond strength between asphalt courses shall be at meet or exceed 40 pounds per square inch (psi). Three cores shall be tested per AASHTO T 407-23 at 0.1 inches/minute with a load frame calibrated to a minimum 500 lb force up to 10,000 lb. force. Horizontal "Normal" loading of up to 3-psi shall be allowed to prevent premature movement in the cores during loading. Coring shall be done either Parallel or perpendicular to the travel way.

   After paving, the contractor shall obtain a set of three cores (4-inch or 6-inch outside diameter +/-0.1") per placement date per mix design for shear bond testing and deliver cores to the Engineer for testing. Core locations shall be obtained from

random locations, except that random location shall be set back at least 2-feet from a curb, edge joint or seam. Cores shall be marked with and arrow with showing direction of travel. Cores shall be sheared with an arrow facing up in the apparatus. an appropriate wedge that does not allow to be compressed may be required to provide a snug fit in the shear cylinder clamp to prevent movement in the shear device. Cores shall be obtained within 6-months of pave date.

Cores may be clamped into device so that the horizontal plates are just touching the cores to prevent horizontal displacement with up to 3 psi of pressure applied to reduce potential shifting during testing. Apply pressure with a calibrated load cell or equal if equipped. Maintain the center of the shear plane in the frame. Additional samples may be obtained at the option of the Engineer.

Shear bond strength less than 30 psi shall result in isolation of low bond area. The area shall remove and replacement the top lift only or an **extended warranty of 10-years** to remain in place to protect against defects such as stress cracking, delamination, and subsequent failure . If the average shear bond strength is less than 40 psi and greater than 30 psi, the bid item reduction formula shall be used for the top lift only as follows:

- BID ITEM REDUCTION (B.I.R.) For Average shear Strengths less than 40 Psi.

SHEAR STRENGTH (AVE PSI)	B.I.R.
<30 (SINGLE)	FIND LIMITS OF FAILURE REMOVE OR PROVIDE EXTENDED WARANTY
30-32.5	72%
32.51-35.0	78%
35.01-37.5	86%
37.51-40	93%
≥40 PSI	REMAIN IN PLACE

These modifications will aid in the timely completion of the project and address the current challenges we are facing. These changes will be in effect until otherwise noted.

Sincerely,

Nicholas Warnke, P.E.
Principal Engineer
Clark County Public Works, Construction Management Division.