



COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET

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**HIGHWAY DESIGN MEMORANDUM NO. 01-25; STRUCTURAL DESIGN MEMORANDUM TM 25-01;  
DIVISION OF CONSTRUCTION MEMORANDUM CM 25-02**

**TO:** Chief District Engineers; KYTC Central Office Directors; TEBMs for Project Development;  
TEBMs for Project Delivery and Preservation; Section Engineers; Active Consultants

**FROM:** Tim Layson, P.E., Director *WTL*  
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Division of Construction

**DATE:** January 28, 2025

**SUBJECT:** Expansion Joint Filler Material

KYTC will be transitioning from AASHTO M153, Type II (cork) to AASHTO M153, Type I (sponge rubber) in expansion joint filler applications. Additionally, in concrete blocking applications, AASHTO M153, Type I (sponge rubber) may be utilized as a “glued-up” alternative to Styrofoam, and AASHTO M251, Grade 3 (50 Durometer) neoprene rubber will be used for B12-B21 and CB12-CB21 box beam bearing pads.

Sepias reflecting these revisions have been posted on the Division of Highway Design’s website. The following table outlines and links to the new sepias:

Sepia #	Title	Date	DGN	PDF	Replaces
43	BEARING DETAILS	12/12/2024	<a href="#">Sepia 043</a>	<a href="#">Sepia043</a>	Replaces BBP-002
44	BOX BEAM BEARING DETAILS	12/12/2024	<a href="#">Sepia044</a>	<a href="#">Sepia044</a>	Replaces BDP-002
45	SLAB BRIDGE FOR 12” & 17” BEAMS	12/12/2024	<a href="#">Sepia045</a>	<a href="#">Sepia045</a>	Replaces BDP-013
46	CONCRETE SLOPEWALLS FOR GRADE SEPARATION BRIDGES	12/12/2024	<a href="#">Sepia046</a>	<a href="#">Sepia046</a>	Replaces BGX-004
47	CONCRETE SLOPEWALLS FOR GRADE SEPARATION BRIDGES	12/12/2024	<a href="#">Sepia047</a>	<a href="#">Sepia047</a>	Replaces BGX-005
48	JOINT WATERPROOFING	12/12/2024	<a href="#">Sepia048</a>	<a href="#">Sepia048</a>	Replaces BGX-022
49	0° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS	12/12/2024	<a href="#">Sepia049</a>	<a href="#">Sepia049</a>	Replaces BSA-001
50	5° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS	12/12/2024	<a href="#">Sepia050</a>	<a href="#">Sepia050</a>	Replaces BSA-003
51	10° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS	12/12/2024	<a href="#">Sepia051</a>	<a href="#">Sepia051</a>	Replaces BSA-005
52	15° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS	12/12/2024	<a href="#">Sepia052</a>	<a href="#">Sepia052</a>	Replaces BSA-007

Sepia #	Title	Date	DGN	PDF	Replaces
53	20° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS	12/12/2024	<a href="#">Sepia053</a>	<a href="#">Sepia053</a>	Replaces BSA-009
54	25° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS	12/12/2024	<a href="#">Sepia054</a>	<a href="#">Sepia054</a>	Replaces BSA-011
55	30° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS	12/12/2024	<a href="#">Sepia055</a>	<a href="#">Sepia055</a>	Replaces BSA-013
56	35° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS	12/12/2024	<a href="#">Sepia056</a>	<a href="#">Sepia056</a>	Replaces BSA-015
57	40° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS	12/12/2024	<a href="#">Sepia057</a>	<a href="#">Sepia057</a>	Replaces BSA-017
58	45° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS	12/12/2024	<a href="#">Sepia058</a>	<a href="#">Sepia058</a>	Replaces BSA-019
59	0° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS	12/12/2024	<a href="#">Sepia059</a>	<a href="#">Sepia059</a>	Replaces BSA-021
60	5° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS	12/12/2024	<a href="#">Sepia060</a>	<a href="#">Sepia060</a>	Replaces BSA-023
61	10° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS	12/12/2024	<a href="#">Sepia061</a>	<a href="#">Sepia061</a>	Replaces BSA-025
62	15° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS	12/12/2024	<a href="#">Sepia062</a>	<a href="#">Sepia062</a>	Replaces BSA-027
63	20° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS	12/12/2024	<a href="#">Sepia063</a>	<a href="#">Sepia063</a>	Replaces BSA-029
64	25° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS	12/12/2024	<a href="#">Sepia064</a>	<a href="#">Sepia064</a>	Replaces BSA-031
65	30° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS	12/12/2024	<a href="#">Sepia065</a>	<a href="#">Sepia065</a>	Replaces BSA-033
66	35° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS	12/12/2024	<a href="#">Sepia066</a>	<a href="#">Sepia066</a>	Replaces BSA-035
67	40° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS	12/12/2024	<a href="#">Sepia067</a>	<a href="#">Sepia067</a>	Replaces BSA-037
68	45° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS	12/12/2024	<a href="#">Sepia068</a>	<a href="#">Sepia068</a>	Replaces BSA-039
69	0° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS	12/12/2024	<a href="#">Sepia069</a>	<a href="#">Sepia069</a>	Replaces BSA-041
70	5° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS	12/12/2024	<a href="#">Sepia070</a>	<a href="#">Sepia070</a>	Replaces BSA-043
71	10° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS	12/12/2024	<a href="#">Sepia071</a>	<a href="#">Sepia071</a>	Replaces BSA-045
72	15° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS	12/12/2024	<a href="#">Sepia072</a>	<a href="#">Sepia072</a>	Replaces BSA-047
73	20° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS	12/12/2024	<a href="#">Sepia073</a>	<a href="#">Sepia073</a>	Replaces BSA-049
74	25° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS	12/12/2024	<a href="#">Sepia074</a>	<a href="#">Sepia074</a>	Replaces BSA-051
75	30° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS	12/12/2024	<a href="#">Sepia075</a>	<a href="#">Sepia075</a>	Replaces BSA-053
76	35° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS	12/12/2024	<a href="#">Sepia076</a>	<a href="#">Sepia076</a>	Replaces BSA-055
77	40° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS	12/12/2024	<a href="#">Sepia077</a>	<a href="#">Sepia077</a>	Replaces BSA-057
78	45° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS	12/12/2024	<a href="#">Sepia078</a>	<a href="#">Sepia078</a>	Replaces BSA-059
80	0° SKEW 24'-0" - 25'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER	12/12/2024	<a href="#">Sepia080</a>	<a href="#">Sepia080</a>	Replaces BSA-102
81	0° SKEW 32'-0" - 33'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER	12/12/2024	<a href="#">Sepia081</a>	<a href="#">Sepia081</a>	Replaces BSA-103
82	15° SKEW 16'-0" - 17'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER	12/12/2024	<a href="#">Sepia082</a>	<a href="#">Sepia082</a>	Replaces BSA-104

Sepia #	Title	Date	DGN	PDF	Replaces
83	15° SKEW 24'-0" - 25'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER	12/12/2024	<a href="#">Sepia083</a>	<a href="#">Sepia083</a>	Replaces BSA-105
84	15° SKEW 32'-0" - 33'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER	12/12/2024	<a href="#">Sepia084</a>	<a href="#">Sepia084</a>	Replaces BSA-106
85	30° SKEW 16'-0" - 17'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER	12/12/2024	<a href="#">Sepia085</a>	<a href="#">Sepia085</a>	Replaces BSA-107
86	30° SKEW 24'-0" - 25'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER	12/12/2024	<a href="#">Sepia086</a>	<a href="#">Sepia086</a>	Replaces BSA-108
87	30° SKEW 32'-0" - 33'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER	12/12/2024	<a href="#">Sepia087</a>	<a href="#">Sepia087</a>	Replaces BSA-109
88	45° SKEW 16'-0" - 17'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER	12/12/2024	<a href="#">Sepia088</a>	<a href="#">Sepia088</a>	Replaces BSA-110
89	45° SKEW 24'-0" - 25'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER	12/12/2024	<a href="#">Sepia089</a>	<a href="#">Sepia089</a>	Replaces BSA-111
90	45° SKEW 32'-0" - 33'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER	12/12/2024	<a href="#">Sepia090</a>	<a href="#">Sepia090</a>	Replaces BSA-112
91	PILE END BENT 0° SKEW	12/12/2024	<a href="#">Sepia091</a>	<a href="#">Sepia091</a>	Replaces BSE-001
92	PILE END BENT 15° SKEW	12/12/2024	<a href="#">Sepia092</a>	<a href="#">Sepia092</a>	Replaces BSE-002
93	PILE END BENT 30° SKEW	12/12/2024	<a href="#">Sepia093</a>	<a href="#">Sepia093</a>	Replaces BSE-003
94	PILE END BENT 45° SKEW	12/12/2024	<a href="#">Sepia094</a>	<a href="#">Sepia094</a>	Replaces BSE-004

This table is provided for reference only. In the future, there may be additional Standard Drawings modified by Sepia to address this issue.

If you have any questions contact the Division of Highway Design, at 502-564-3280 or the Division of Structural Design at 502-564-2374, Division of Construction at 502-564-4780.