

A detailed cross-sectional diagram of a bridge deck joint. The diagram shows two concrete support boxes separated by a central joint. A horizontal support beam is positioned across the joint, with neoprene seals on either side. Reinforcement bars (*4) are shown at the top of the concrete overlay. Dimensions are provided for the joint width (2'-0" on each side of the central 1'-0" gap), the total joint width (3'-0"), and the thickness of the concrete overlay (9" and 3").

Labels and dimensions include:

- *4 @ 1'-0" (SHOWN AT SUPPORT BOX)
- *4 CONT. (TYP.)
- SUPPORT BEAMS
- NEOPRENE SEAL
- *4 @ 1'-0" (SHOWN BETWEEN SUPPORT BOXES)
- CONCRETE OVERLAY
- 3"
- 9"
- 2'-0"
- 1'-0"
- 2'-0"

SCALE : NONE

		'A' MIN	'A' MAX	'A' @ 75°F	TOTAL MOVEMENT
INBOUND	ABUT. 1	6.3"	11.3"	7.3"	6.0"
	HINGE 1	3.0"	13.5"	4.1"	12.0"
	HINGE 2	2.0"	13.5"	3.1"	12.0"
	HINGE 3	3.3"	13.3"	3.7"	12.0"
	HINGE 4	3.9"	12.2"	4.7"	12.0"
	HINGE 5	2.8"	7.2"	3.3"	12.0"
	ABUT. 2	2.8"	7.2"	3.3"	6.0"
OUTBOUND	ABUT. 1	6.6"	11.6"	7.6"	6.0"
	HINGE 1	3.0"	13.5"	4.1"	12.0"
	HINGE 2	2.0"	13.5"	2.9"	12.0"
	HINGE 3	2.9"	12.9"	3.4"	12.0"
	HINGE 4	3.3"	11.7"	4.1"	12.0"
	HINGE 5	2.7"	7.1"	3.2"	12.0"
	ABUT. 2	2.9"	7.4"	3.3"	6.0"

1. THE DETAILS SHOWN INDICATE THE GENERAL DECK EXPANSION JOINT INSTALLATION REQUIREMENTS. THE EXACT DETAILS SHALL BE ADJUSTED TO SUIT THE RECOMMENDATIONS OF THE MANUFACTURER OF THE ACTUAL EXPANSION JOINT USED. THE CONTRACTOR SHALL VERIFY ALL INSTALLATION REQUIREMENTS AND SUBMIT SHOP DRAWINGS INDICATING THE ACTUAL INSTALLATION REQUIREMENTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. DECK EXPANSION JOINTS SHALL NOT BE INSTALLED UNTIL A MINIMUM OF 60 DAYS AFTER ALL POST-TENSIONING WORK HAS BEEN COMPLETED FOR ADJACENT FRAMES.
3. ASSUMED TEMPERATURE AT THE TIME OF JOINT INSTALLATION IS 75°F.
4. DECK EXPANSION JOINTS SHALL BE INSTALLED PERPENDICULAR TO SEGMENT CENTERLINE FOR HINGE LOCATIONS AND RADIAL TO THE BASELINE FOR ABUTMENT LOCATIONS. SEE SHEET E-2 FOR CONDITION AT BRIDGE CONCRETE RAILING.
5. THE 'A' MINIMUM AND 'A' MAXIMUM VALUES ARE THE EXTREMES EXPECTED AFTER THE JOINT HAS BEEN SET.



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INTERSTATE ROUTE H-3

F.A.I. PROJECT No. I-H3-1(57)

F.A.I. PROJECT No. 1-H3-1(58)

SCALE : AS NOTED DATE : JUN. 1990

SHEET No. EJ1 OF SHEETS

06/21/91	UPDATED DRAWING
05/03/91	UPDATED DRAWING
04/01/91	UPDATED DRAWING.
10/04/90	UPDATED DRAWING.

DATE	REVISION
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J. MULLER
INTERNATIONAL

Libby Engineers