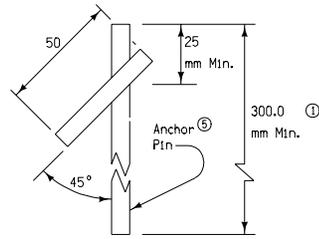
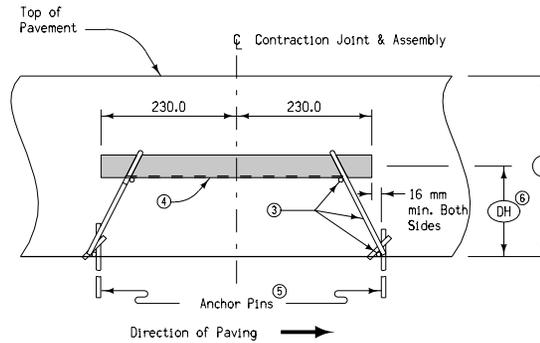


DOWEL HEIGHT AND DIAMETER		
(T)	(DH) (6)	Diameter
180-190 mm	90 mm	20 mm
200-240 mm	110 mm	30 mm
250-290 mm	135 mm	35 mm
300-330 mm	160 mm	35 mm

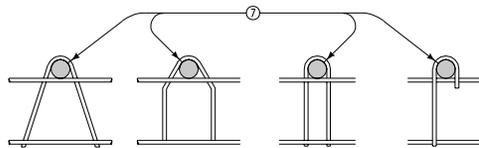
Pavement Width	No. of Dowels
3.6 m	11
4.2 m	13



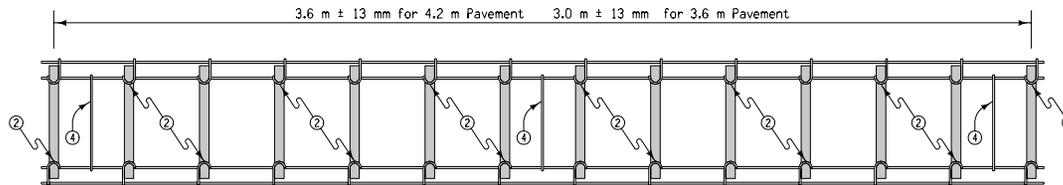
ANCHOR PIN DETAILS



LONGITUDINAL SECTION

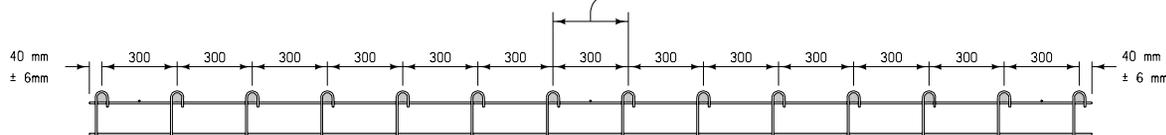


OPTIONAL LEG ASSEMBLIES



PLAN VIEW

Spaces between dowel bars are nominal dimensions with a 6 mm allowable tolerance.



ELEVATION

GENERAL NOTES:

Details herein are for the fabrication of a contraction joint dowel assembly.

Dowel bars shall be 457 mm long with a tolerance of  $\pm 3$  mm. The centerline of individual dowels shall be parallel to the other dowels in the assembly within  $\pm 3$  mm.

All dowels shall be saw cut on both ends or sheared on both ends if deformation is less than 1 mm out of round.

The dowels shall be round bars and conform to ASTM A663M grade 415 or higher, ASTM A675M grade 415 or higher, or ASTM A615M grade 300 or higher.

Dowels shall be epoxy coated to conform to AASHTO M 254 Type B coating with a thickness of  $0.18 \pm 0.05$  mm after cure. The cut ends shall be free from burrs and projections and need not be coated.

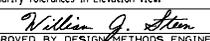
The entire assembly, after fabrication, shall be dipped in a bituminous bond breaker or a paraffin based bond breaker prior to delivery to the work site. The bond breaker shall meet the requirements of standard specification 4137, 4138, or 4140. The application method shall be approved by the Office of Materials.

Wire size shown are minimum required, and the wire shall have a minimum tensile strength of 345 MPa.

NOTES:

- (1) (8) anchor pins minimum required, 4 per side. Anchor pins shall be a minimum 300.0 mm long and shall prevent movement of assembly during construction.
- (2) Weld alternately thru-out.
- (3) #1/0 gage (8 mm) wire
- (4) (3) #10 gage (4 mm) wire minimum, tie wire welded or friction fit to top longitudinal wire, both sides.
- (5) Pins shall be a minimum of #1/0 gage (8 mm) wire and have minimum length of 300.0 mm.
- (6) Measured from the centerline of dowel bar to bottom of support wire  $\pm 6$  mm.
- (7) Diameter of bend around dowel is dowel diameter +3 mm to 5 mm.

All dimensions given in millimeters unless noted.

<b>METRIC VERSION</b>	<b>M</b>	Iowa Department of Transportation Highway Division
	<b>STANDARD ROAD PLAN</b>	<b>RH-55</b>
	REVISION: Corrected Dimensions in Plan View. Clarify Tolerances in Elevation View.	
	 APPROVED BY DESIGN METHODS ENGINEER	
<b>FABRICATION DETAILS CONTRACTION JOINT DOWEL ASSEMBLY</b>		REVISION NO. 3 REVISION DATE 04-15-03