

Plotted by : KDOT#CADD.Support_ks.gov 25-JUN-2022 00:49
File : rd723.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		0	0	

GENERAL NOTE

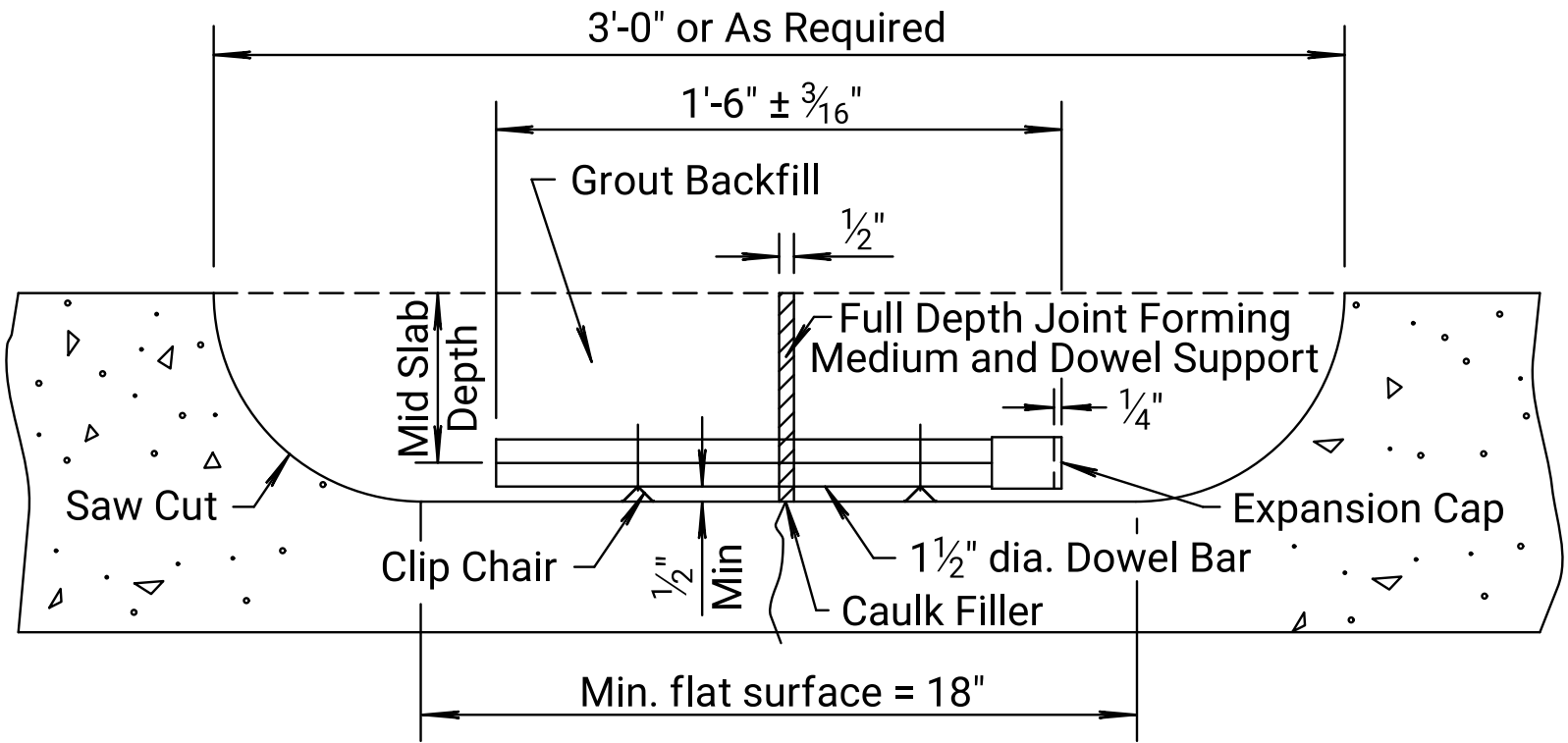
DOWEL BAR RETROFIT

Dowel Bars shall be epoxy coated in accordance with the Standard Specifications.

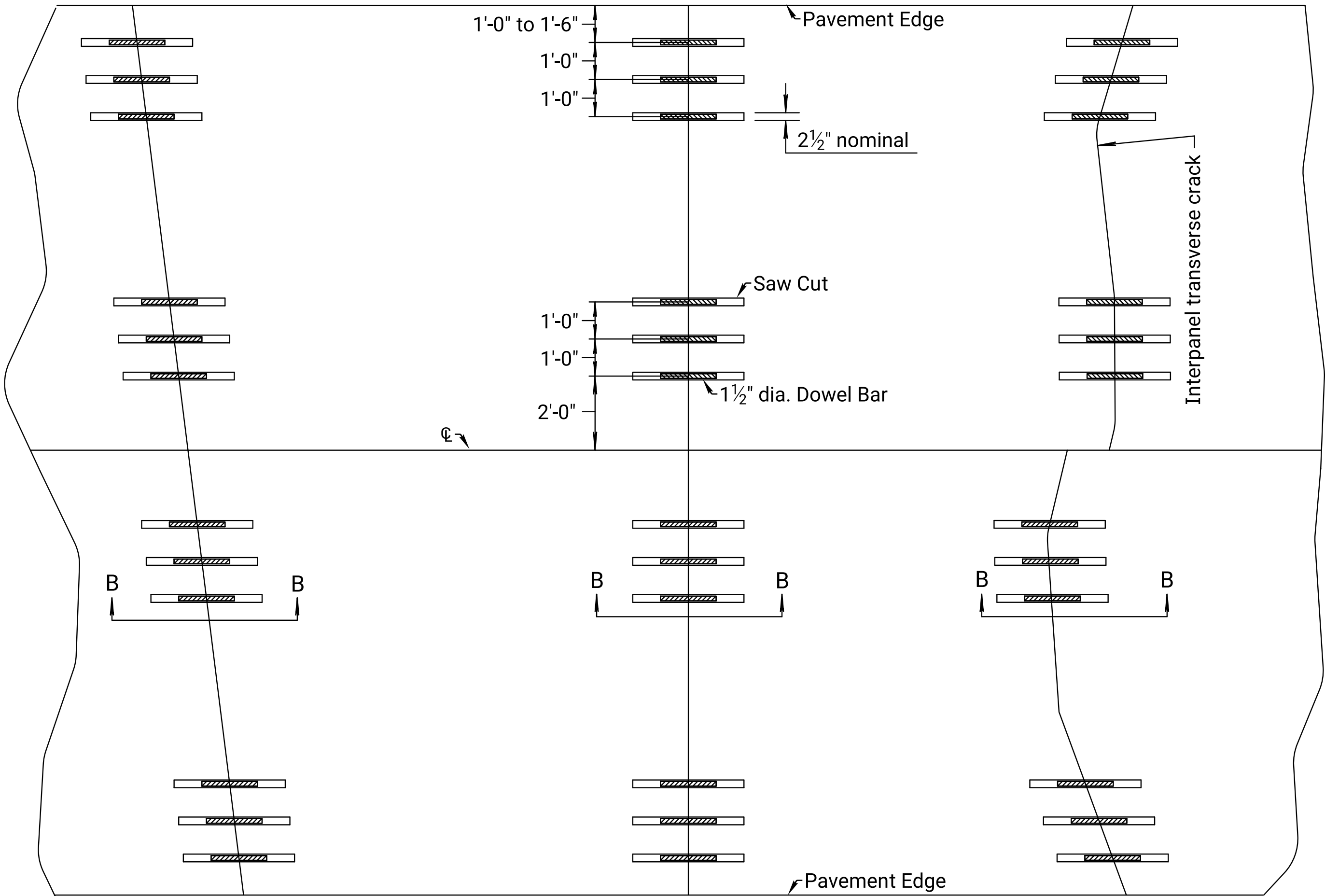
Dowel Bars shall be placed parallel to the longitudinal joints at $\pm \frac{1}{8}"$.
The crack in the bottom and sides of the dowel slots shall be filled with a silicone sealant caulk filler to prevent the grout from flowing into the crack. The caulk filler material shall be approved by the engineer prior to placement.

Joints shall be resawed and sealed after placement of the dowels. The sawing and sealing shall be paid under the bid item "Sealing of the PCCP Joints (Transverse)".

Do not saw or seal the joints if the pavement will be overlaid with hot mix asphalt within 3 months after the dowel bar retrofit action.

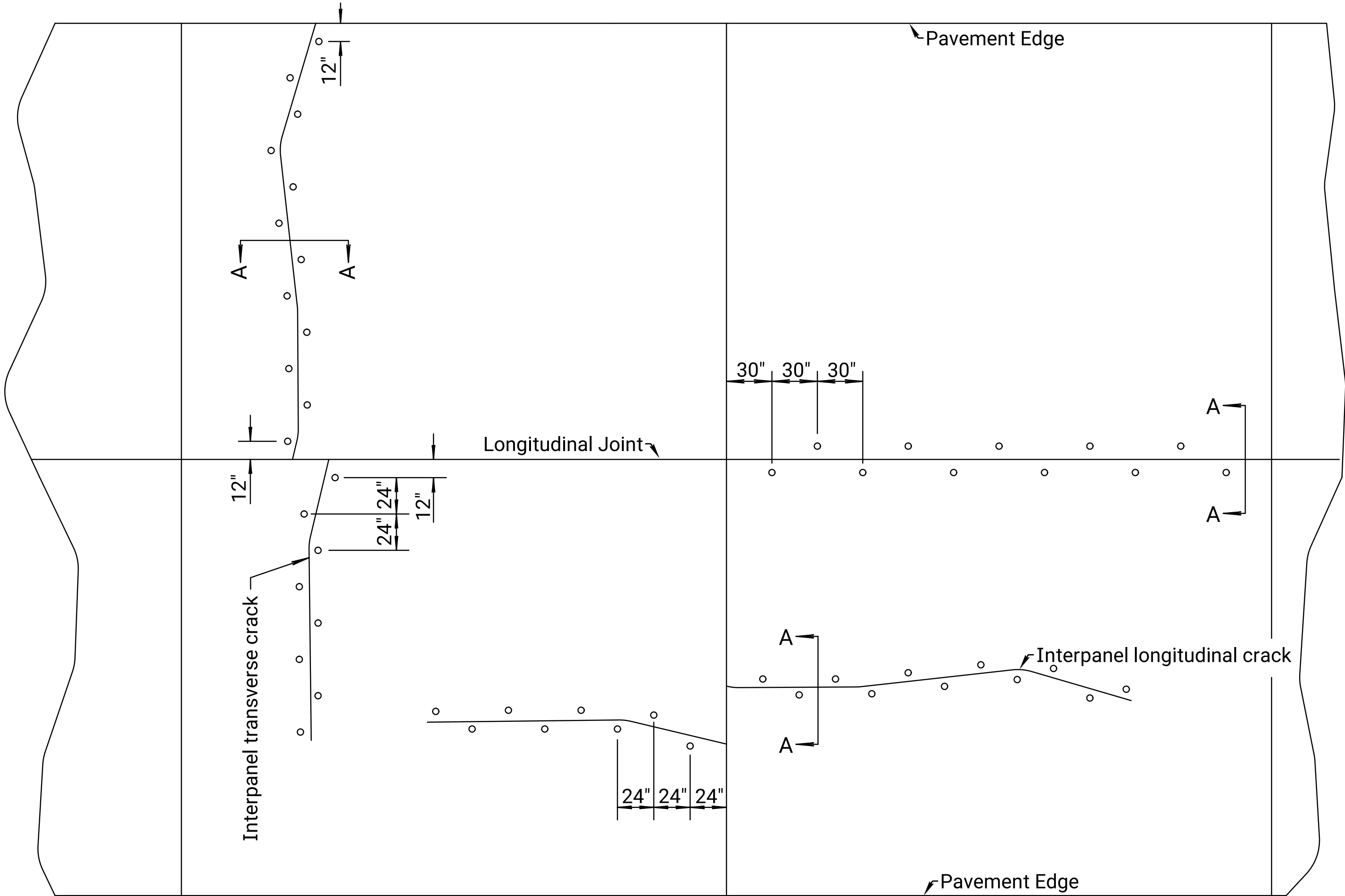


SECTION B-B
DOWEL BAR RETROFIT

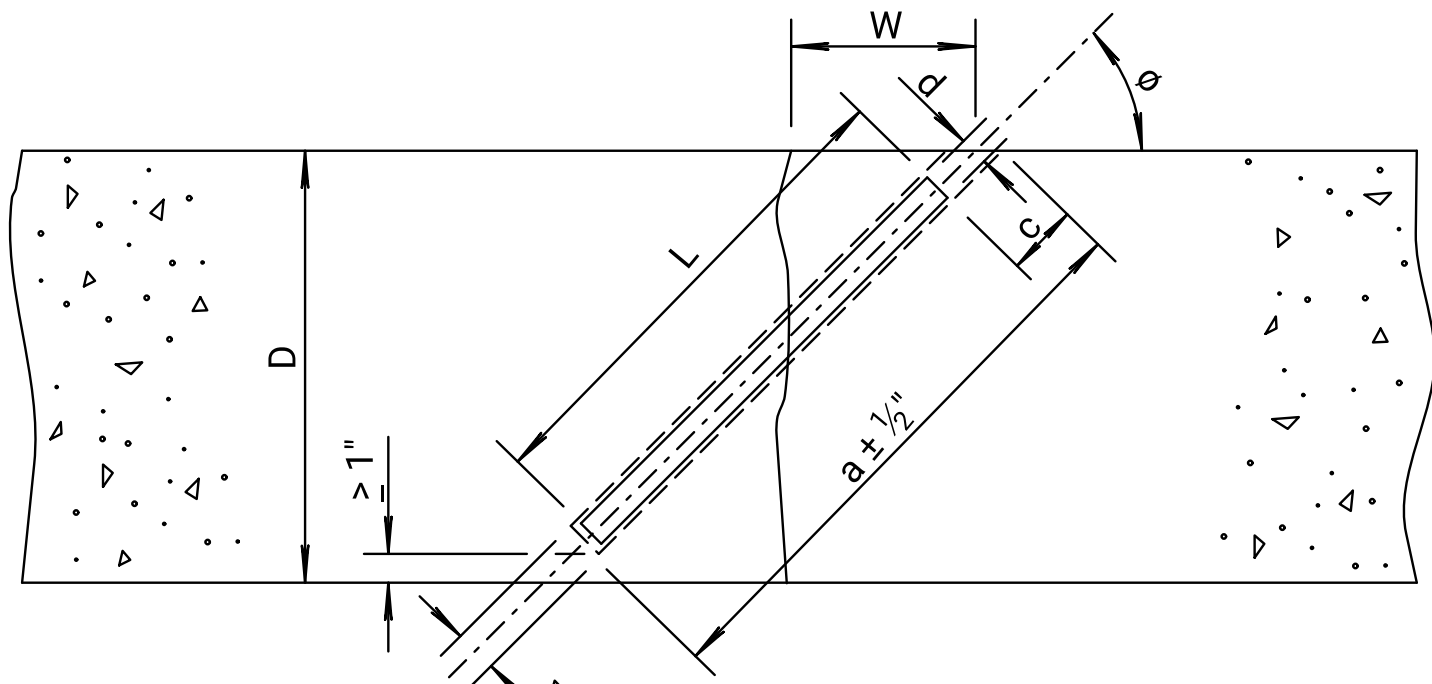


PLAN VIEW

DOWEL BAR RETROFIT



PLAN VIEW



SECTION A-A
TIE BAR INSERTION DETAILS

☆ Drill diameter will be not less than $\frac{1}{4}"$ larger than the tie bar diameter and no more than $\frac{3}{8}"$ larger than the tie bar diameter.

TIE BAR INSERTION

DIMENSIONS FOR TIE BAR INSERTION

Slab Thickness D (in.)	Angle ϕ (deg.)	Offset W (in.)	Bar Diameter d (in.)	Length of Bar L (in.)	Depth of Hole a (in.)	Min. Depth to Bar c (in.)
8.00	35	5.75	0.75	9.00	12.50	3.00
8.50	35	6.00	0.75	9.50	13.00	3.00
9.00	35	6.50	0.75	10.50	14.00	3.00
9.50	35	6.75	0.75	11.50	15.00	3.00
10.00	40	6.00	0.75	11.00	14.00	2.50
10.50	40	6.25	0.75	12.00	15.00	2.50
11.00	40	6.50	0.75	12.50	15.50	2.50
11.50	40	6.75	0.75	13.50	16.50	2.50
12.00	45	6.00	0.75	13.00	15.75	2.25
12.50	45	6.25	0.75	13.50	16.25	2.25
13.00	45	6.50	1.00	14.00	17.00	2.50
13.50	45	6.75	1.00	14.50	17.50	2.50
14.00	45	7.00	1.00	15.50	18.50	2.50
14.50	45	7.25	1.00	16.00	19.00	2.50
15.00	45	7.50	1.00	17.00	20.00	2.50

"D" Thickness= _____

01	09-14-09	Added Dowel Bar Retrofit	S.W.K.	J.O.B.
NO.	DATE	REVISIONS	BY	APPD
KANSAS DEPARTMENT OF TRANSPORTATION				
CONCRETE PAVEMENT DETAILS DOWEL BAR RETROFIT TIE BAR INSERTION				
RD723				
FHWA APPROVAL		12-17-09	APPD.	James O. Brewer
DESIGNED	DETAILED	QUANTITIES	TRACED	
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.	