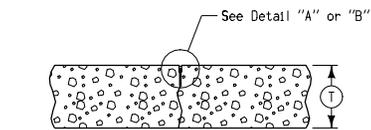
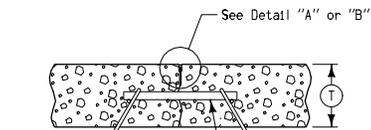


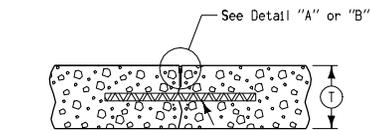
See Notes ⑥ ⑦  
**'B'**  
 PLAIN JOINT  
 FOR ABUTTING PAVEMENT SLABS



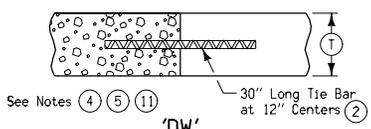
See Notes ⑥ ⑩  
**'C'**  
 CONTRACTION JOINT



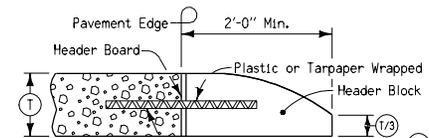
See Notes ① ⑤ ⑥ ⑩  
**'CD'**  
 DOWELED CONTRACTION JOINT



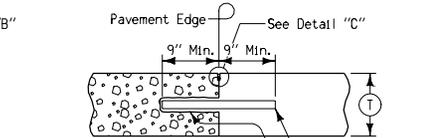
See Notes ⑤ ⑥ ⑧  
**'CT'**  
 TIED CONTRACTION JOINT



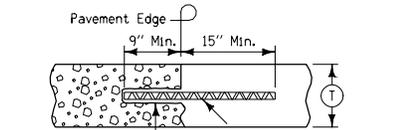
See Notes ④ ⑤ ⑪  
**'DW'**  
 DAY'S WORK JOINT (Non-Working)



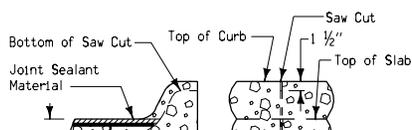
See Notes ⑤ ⑦  
**'HT'**  
 HEADER JOINT  
 (END RIGID PAVEMENT)



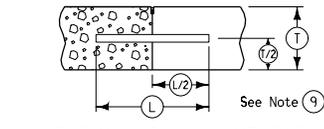
Hole Diameter 1/8" Larger than Dowel  
 18" Long Dowel at 12" Centers ②  
 See Notes ⑤ ⑥ ⑦ ⑧  
**'RD'**  
 ABUTTING PAVEMENT JOINT



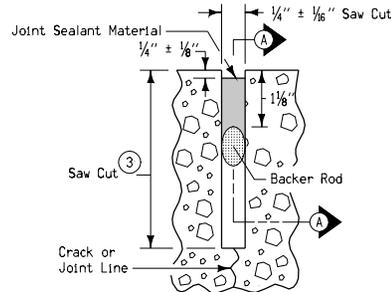
Hole Diameter 1/8" Larger than Tie Bar  
 24" Long Tie Bar at 12" Centers ②  
 See Notes ⑤ ⑧  
**'RT'**  
 ABUTTING PAVEMENT JOINT  
 RIGID TIE



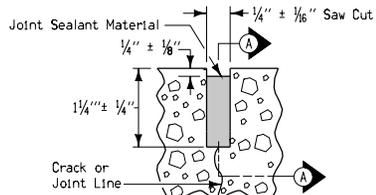
Bottom of Saw Cut Top of Curb 1 1/2"  
 Joint Sealant Material Top of Slab  
 Backer Rod Note: Match 'CT', 'CD' or 'C' Joint in pavement.  
**'C' JOINT IN CURB**



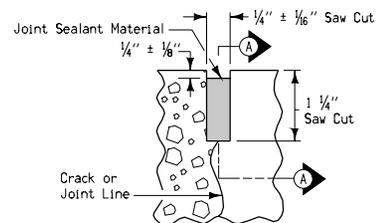
See Note ⑨  
**TYPICAL BAR PLACEMENT**  
 Applies to all joints unless otherwise detailed.



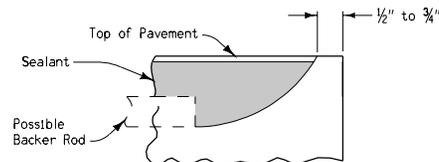
**DETAIL "A"**  
 (Sawcut formed by conventional concrete sawing equipment)



**DETAIL "B"**  
 (Sawcut formed by approved early concrete sawing equipment)



**DETAIL "C"**



**SECTION A-A**  
 DETAIL AT EDGE OF PAVEMENT

- ① Free moving ends of dowel support assembly shall be placed alternately across joints.
- ② Refer to Bar Size Table.
- ③ Depth of sawcut shall be T/3, except 'C' joint shall be T/4.
- ④ 'DW' joint shall be located at a midpanel location between future 'C' or 'CD' joints. It shall be no closer than 5'-0" to a 'C' or 'CD' joint.
- ⑤ Bars in Transverse Joints shall be placed according to Standard Road Plan RH-58.
- ⑥ Joints shall be sealed according to the Standard and Supplemental Specifications on "Sealing Joints".
- ⑦ Edge with 1/4" tool for length of joint indicated if formed; edging not required when cut with diamond blade saw. Remove header block and board when second slab is poured.
- ⑧ Placement of dowels or tie bars shall be in accordance with the current Standard Specification on "Reinforcement". The method of anchoring bars into existing pavement shall be as set forth in appropriate Materials Instructional Memorandums.
- ⑨ When tying into old pavement, ① represents the depth of sound Portland Cement Concrete.
- ⑩ Unless otherwise specified, transverse contraction joints in mainline pavement shall be 'CD' when ① is greater or equal to 8", 'C' when ① is less than 8".
- ⑪ 'RT' joint may be used in lieu of 'DW' joint at the end of the days work. Any pavement damaged due to the drilling shall be removed at the contractor's expense.

BAR SIZE TABLE			
①	< 8"	≥ 8" but < 10"	≥ 10"
Dowel Size	#3	#4	#5
Tie Bar Size	#6	#10	#11

**Iowa Department of Transportation**  
 Highway Division

**STANDARD ROAD PLAN RH-50**

REVISION: Modify Detail 'B'. Refer Note 5 to Standard Road Plan RH-58. Modify Section A-A.	REVISION NO. 12
<i>William J. Stein</i> APPROVED BY DESIGN METHODS ENGINEER	REVISION DATE 10-21-03

JOINTS  
 (TRANSVERSE CONTRACTION)