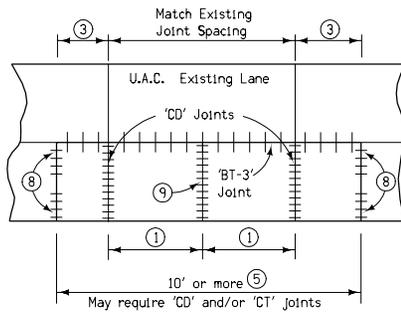
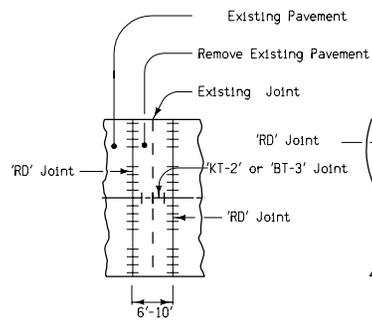


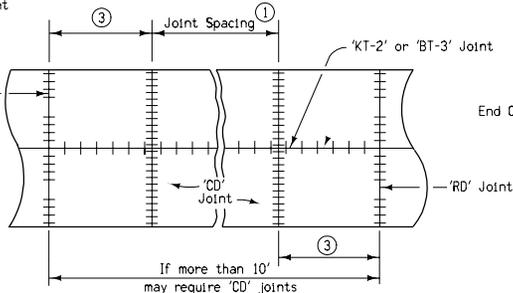
ONE LANE WIDTH PATCH



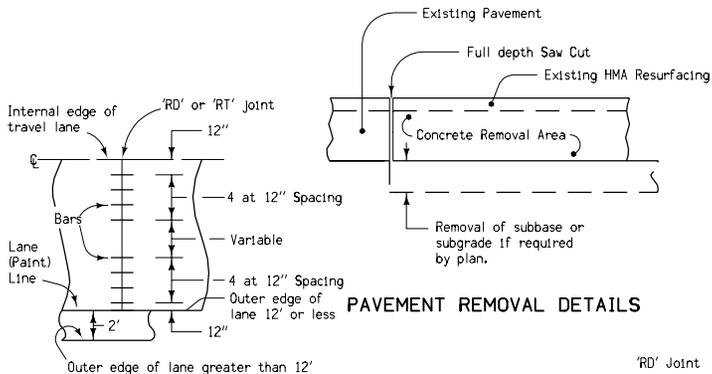
ONE LANE WIDTH PATCH



FULL ROADWAY WIDTH PATCH



FULL ROADWAY WIDTH PATCH

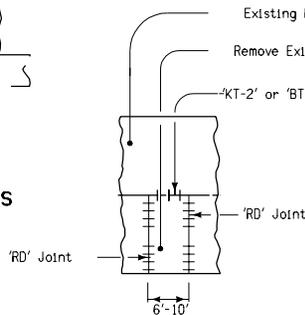


PAVEMENT REMOVAL DETAILS

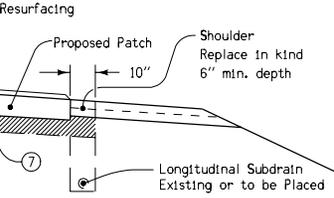
**DETAIL FOR 'RT' OR 'RD' JOINT BAR SPACING**

TYPICAL HALF PLAN

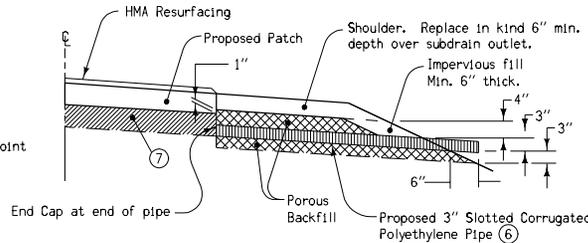
For interior lanes, place first bar 12" from edge of lane (slab).



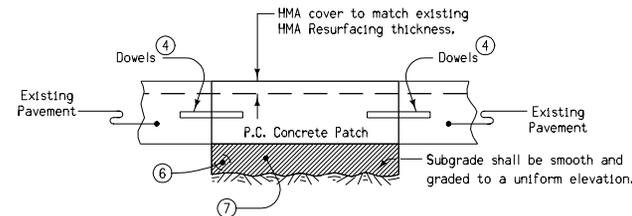
ONE LANE WIDTH PATCH  
(NO OPPOSING JOINTS)



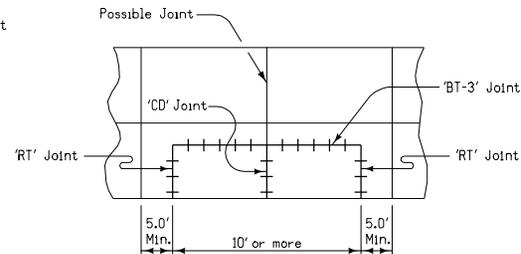
GRANULAR SUBBASE AND SUBDRAIN  
(WHEN REQUIRED BY PLAN)  
IF LONGITUDINAL SUBDRAIN IS PRESENT OR IS TO BE PLACED



GRANULAR SUBBASE AND SUBDRAIN  
(WHEN REQUIRED BY PLAN)  
WITHOUT LONGITUDINAL SUBDRAIN



SECTION THRU PATCH



PARTIAL LANE WIDTH PATCH

If damage occurs outside of patch location due to removal operations, the contractor shall be responsible for the cost of the repairs.

Refer to Standard Road Plans RH-50 and RH-51 for details of joint construction.

All patches shall be rectangular even when existing pavement joints are skewed.

- 1 Joint spacing 10 ft. minimum, 20 ft. maximum, 15 ft. optimum.
- 2 The joint shall not be sawed nor sealed. Full depth saw cut required prior to removal. Place 12" preformed joint material between patch and concrete in adjacent lane.
- 3 New 'CD' Joint must be a minimum 5 ft. from the patch end.
- 4 Install dowels approximately mid-depth of existing PCC Pavement.
- 5 If one lane patch exceeds 50 ft., both lanes should be considered for patching.
- 6 If longitudinal subdrain (shoulder) is not to be placed or if not present on side of roadway to be patched, then place proposed 3 inch slotted corrugated pipe at low end of patch.
- 7 6 inches granular subbase if required by plan. When placed, granular subbase should extend over longitudinal subdrain, if present.
- 8 If this joint is across from an existing crack or joint, then use 'RD' joint, otherwise use 'RT' joint. 'RT' joints shall not be sawed after patching nor be sealed. Refer to RH-50 for joint details.
- 9 Mid panel joint shall be either a 'CT' or a 'CD' joint. If there is no existing joint or crack in the adjacent pavement, place a 'CD' joint at the same transverse location. 'CT' joints shall be sawed but not sealed.

BAR SIZE TABLE			
Existing PCC Pavement Thickness	Less than 8"	8" but less than 10"	10" or More
DOWEL SIZE	3/4"	1 1/4"	1 1/2"
TIE BAR SIZE	#6	#10	#11

<p>Iowa Department of Transportation</p> <p><b>STANDARD ROAD PLAN</b></p> <p>REVISIONS: Added 'BT-3' joint to full roadway patches longitudinal joints. Increased dist. from bar to outer edge. Added details for one lane width with no opp. joints.</p> <p><i>Deanna Mayfield</i> APPROVED BY DESIGN METHODS ENGINEER</p>	<p>REVISION</p> <p>1 10-17-06</p>
	<p><b>RR-14</b></p> <p>SHEET 1 of 1</p>
	<p>FULL DEPTH COMPOSITE PATCH WITH DOWELS</p>