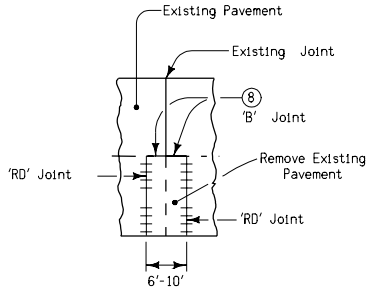
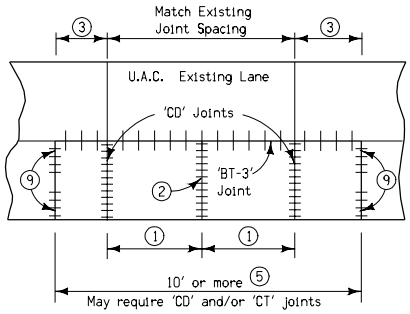
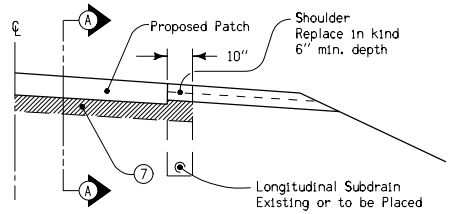


ONE LANE WIDTH PATCH



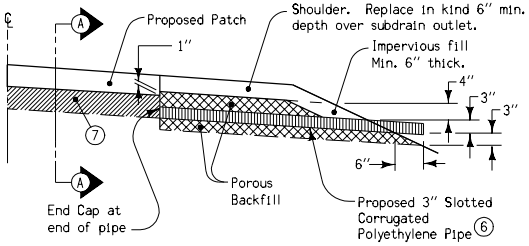
ONE LANE WIDTH PATCH



GRANULAR SUBBASE AND SUBDRAIN

(WHEN REQUIRED BY PLAN)

IF LONGITUDINAL SUBDRAIN IS PRESENT OR IS TO BE PLACED



GRANULAR SUBBASE AND SUBDRAIN

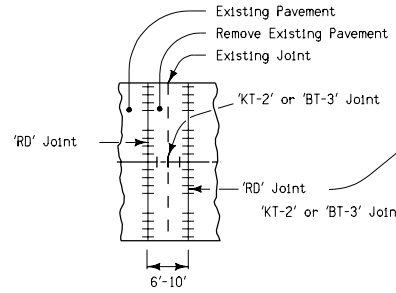
(WHEN REQUIRED BY PLAN)

WITHOUT LONGITUDINAL SUBDRAIN

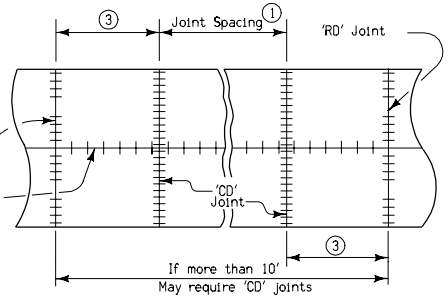
Refer to Standard Road Plans RH-50 and RH-51 for details of joint construction.

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

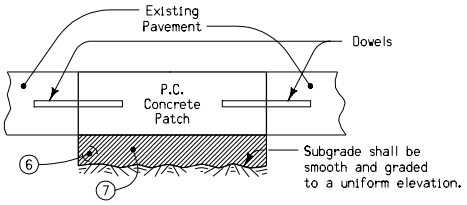
1. Joint spacing 10 ft. minimum, 20 ft. maximum, 15 ft. optimum.
2. Mid panel joint shall be either a 'CT' or a 'CD' joint. If there is no existing joint or crack in the adjacent pavement, place a 'CT' joint. If there is an existing joint or crack in the adjacent pavement, place a 'CD' joint at the same transverse location.
3. New 'CD' Joint must be a minimum 5 ft. from the patch end.
4. Requires full depth saw cut. Place 1/2'' preformed joint material between patch and concrete in adjacent lane.
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. The joint shall not be sawed or sealed.
9. If this joint is across from an existing crack or joint, then use 'RD' joint, otherwise use 'RT' Joint. The joint shall be sawed and sealed after patching. Refer to RH-50 for joint details.



FULL ROADWAY WIDTH PATCH

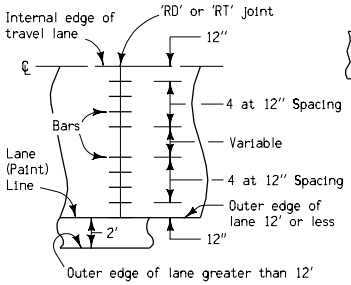


FULL ROADWAY WIDTH PATCH



LONGITUDINAL SECTION THRU PATCH

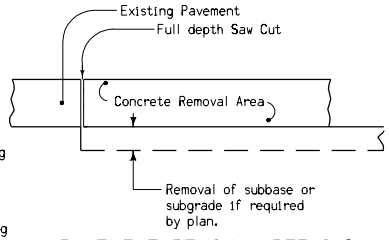
BAR SIZE TABLE			
Existing PCC Pavement Thickness	Less than 8''	8'' but less than 10''	10'' or More
DOWEL SIZE	3/4''	1 1/4''	1 1/2''
TIE BAR SIZE	#6	#10	#11



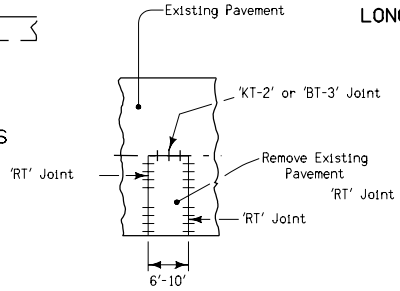
DETAIL FOR 'RT' OR 'RD' JOINT BAR SPACING

TYPICAL HALF PLAN

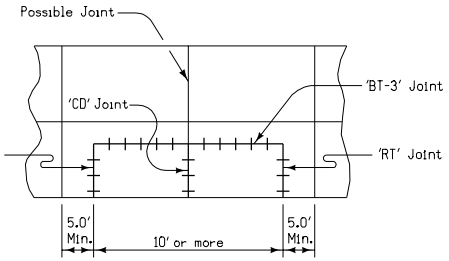
For interior lanes, place first bar 12'' from ege of lane (slab).



PAVEMENT REMOVAL DETAILS



ONE LANE PATCH (NO OPPOSING JOINT)



PARTIAL LANE WIDTH PATCH

Iowa Department of Transportation

STANDARD ROAD PLAN

REVISION	
2	10-17-06

RR-4

SHEET 1 of 1

REVISIONS: Added lane width patch with no opp. joints. Added 'BT-3' joint to full roadway patches longitudinal joints. Increased bar to outer edge of pavement to 12''.

Deanna Maifield

APPROVED BY DESIGN METHODS ENGINEER

FULL DEPTH P.C. CONCRETE PATCH WITH DOWELS (EXISTING NON-COMPOSITE PAVEMENT