See PV-101 for joint and bar placement details.

Construct rectangular patches even when existing pavement joints are skewed.

Min. length of patches on interstate project is 6 feet.

① Joint spacing 10 feet minimum, 17 feet maximum, 15 feet optimum.

② 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. Saw but do not seal 'CT' joints.

③ New 'CD' joint must be a minimum 5 feet from the patch end.

④ Do not saw or seal the joint. Place $\frac{1}{2}$ inch preformed joint material between patch and concrete in adjacent lane.

⑤ If one lane patch exceeds 50 feet, both lanes should be considered for patching.

⑥ Possible Subbase Patch, see PR-140.

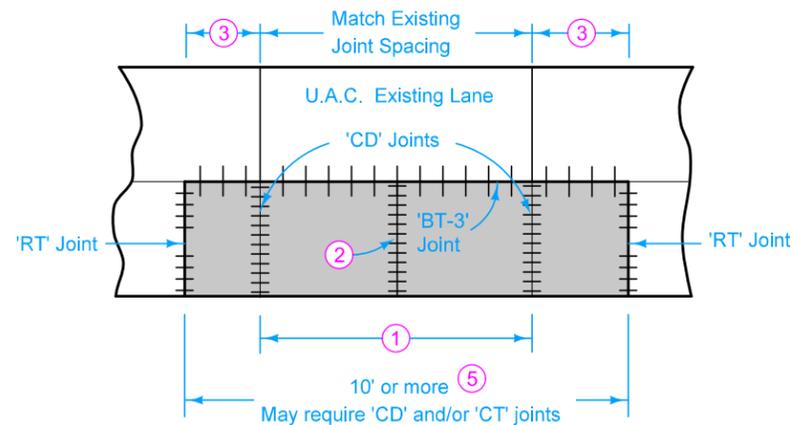⑦ If longitudinal subdrain (shoulder) is not to be placed or if it is not present on side of roadway to be patched, then place drain per PR-140.
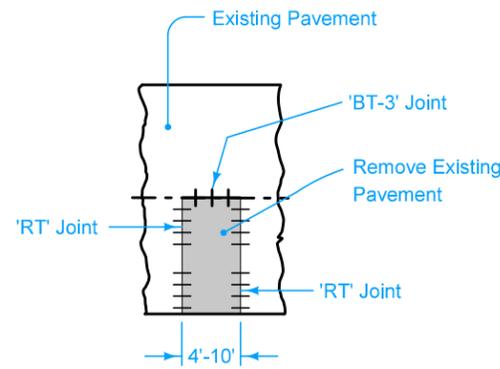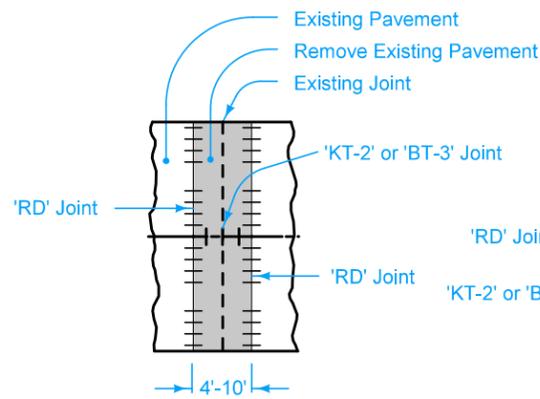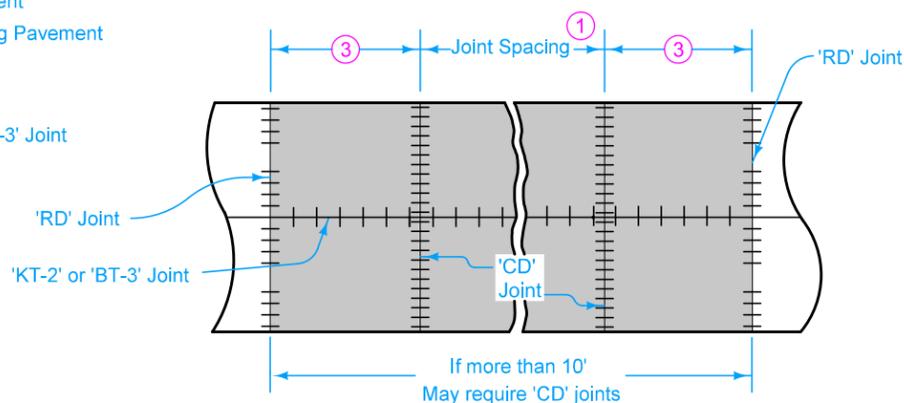
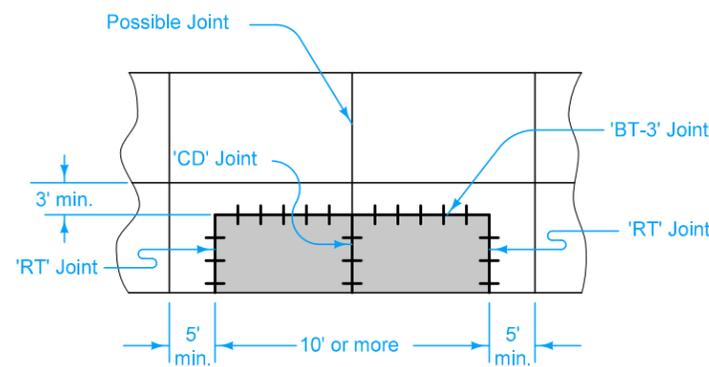**ONE LANE WIDTH PATCH**

ONE LANE WIDTH PATCH
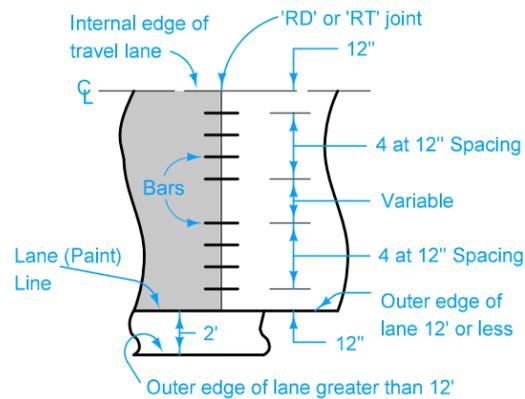
ONE LANE PATCH (NO OPPOSING JOINT)

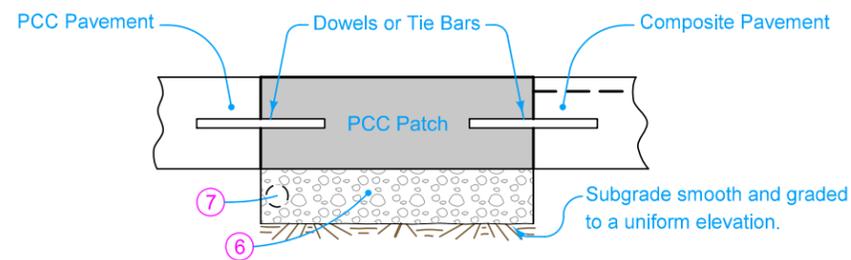**FULL ROADWAY WIDTH PATCH**
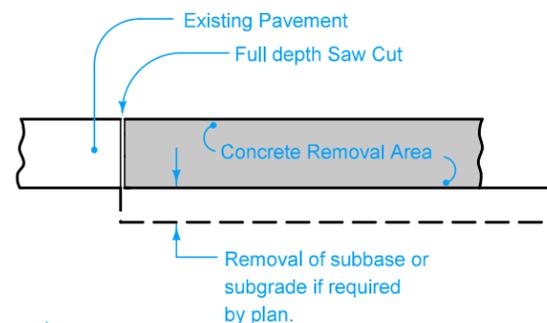
FULL ROADWAY WIDTH PATCH

PARTIAL LANE WIDTH PATCH

DETAIL FOR 'RT' OR 'RD' JOINT BAR SPACING
TYPICAL HALF PLAN
For interior lanes, place first bar 12" from edge of lane (slab).

PAVEMENT REMOVAL DETAILS

LONGITUDINAL SECTION THRU PATCH

Possible Contract Items:
CD Joint Assembly
CT Joint
Patches by Count (Repair)
Patches, Full-Depth Finish, by Area
Patches, Full-Depth Finish, by Count
Patches, Full Depth Finish, by Area (50 feet in length or greater)
Patches, Full-Depth Repair

Possible Tabulation:
102-6C

BAR SIZE TABLE			
Existing PCC Pavement Thickness	Less than 8"	8" to 10"	More than 10"
DOWEL SIZE	$\frac{3}{4}$"	$1\frac{1}{4}$"	$1\frac{1}{2}$"
TIE BAR SIZE	#6	#10	#11

IOWA DOT

REVISION	
3	10-17-23

PR-103

STANDARD ROAD PLAN

SHEET 1 of 1

REVISIONS: Changed length of patch from 6'-10' to 4'-10' to match specs.

APPROVED BY DESIGN METHODS ENGINEER

FULL DEPTH PCC PATCH WITH DOWELS