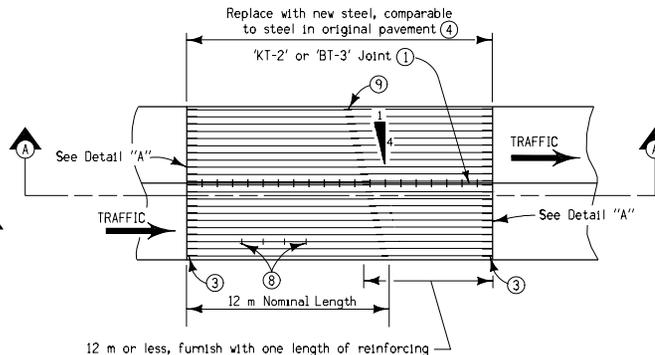
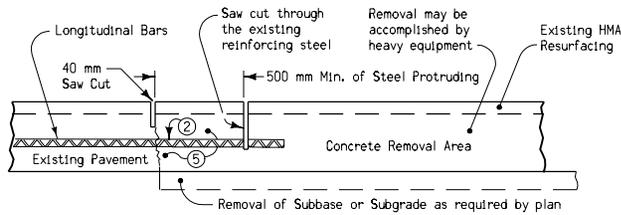


**ONE LANE WIDTH PATCH**

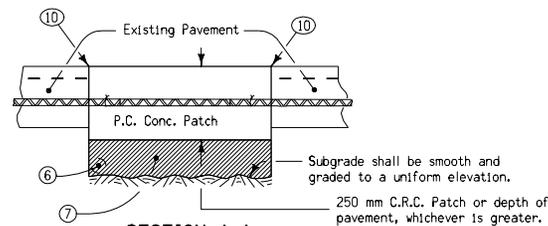


**FULL ROADWAY WIDTH PATCH**

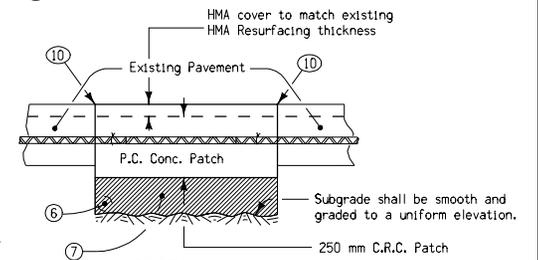
- ① If patch is over 3 meters in length, replace tie bars. Refer to Standard Road Plan RR-51 for joint details.
- ② Reasonable care shall be taken to preserve the 500 millimeter length of longitudinal steel when removing concrete.
- ③ 450 millimeter minimum lap between existing and new reinforcing bars; 2 wire ties per lap.
- ④ Minimum length of patch 2.4 meters.
- ⑤ Pavement area shall be broken and removed to ensure vertical face with minimal undercut or protrusion.
- ⑥ If longitudinal subdrain (shoulder) is not to be placed or if not present on side of roadway to be patched, then place 75 millimeter slotted corrugated pipe at low end of patch.
- ⑦ 150 millimeter granular subbase if required by plan. When placed, granular subbase should extend over longitudinal subdrain, if present.
- ⑧ Longitudinal bars shall be placed at approximately midpoint of the slab and supported at approximately 1.2 meter intervals.
- ⑨ Lap bars 25 diameters of steel or 600 millimeters minimum for mesh; patches 2.4 to 12 meters, no immediate lap joint; over 12 meters length, lap joint as required to not exceed 12 meter spacing.
- ⑩ The joint shall not be sawed nor be sealed after patch is placed.



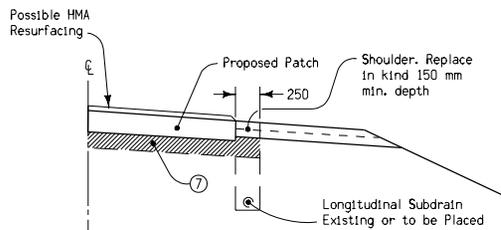
**DETAIL "A"  
PAVEMENT REMOVAL DETAILS  
LONGITUDINAL SECTION**



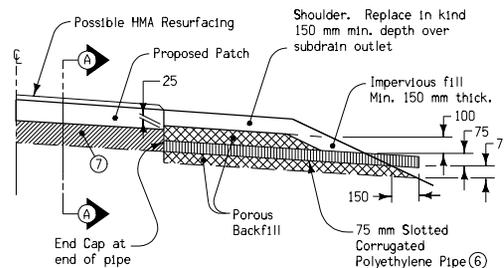
**SECTION A-A  
P.C.C. only patch option**



**SECTION A-A  
Composite patch option**



**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**

All dimensions given in millimeters unless noted.

<b>M</b> <b>STANDARD ROAD PLAN</b> <b>RR-18</b> <b>COMPOSITE SECTION</b>		REVISION 1   10-17-06
	<b>Iowa Department of Transportation</b>	<b>RR-18</b>
	<b>STANDARD ROAD PLAN</b>	SHEET 1 of 1
	REVISIONS: Added BT-3 joint to full roadway patch's longitudinal joints. Added P.C.C. only patch option and made composite patch optional.	
<i>Deanna Mayfield</i> APPROVED BY DESIGN METHODS ENGINEER		
<b>FULL DEPTH PATCH CONTINUOUS REINFORCED P.C. CONCRETE PAVEMENT COMPOSITE SECTION</b>		