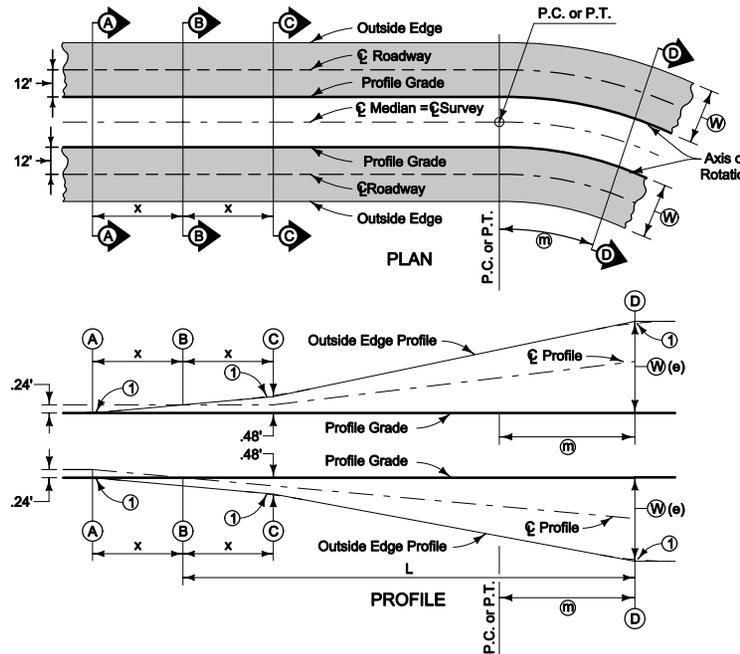


TRANSITION DETAILS WHEN SPIRAL IS USED



TRANSITION DETAILS WHEN SPIRAL IS NOT USED

Refer to specific curve data contained in detail project plans for tangent runoff length (x), runoff length (L) and full superelevation (e).

When spiral transitions are not required, place 70% of full superelevation at the P.C. and P.T. Place the other 30% of the runoff length within the curve.

Unless otherwise specified, all lengths are measured along the centerline of the roadway.

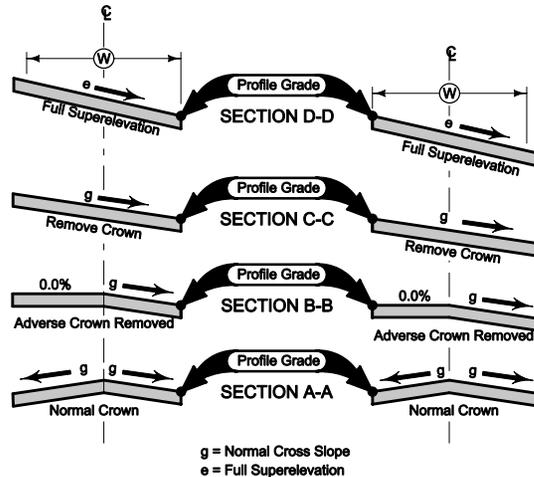
Superelevations on this standard are shown for curves to the right. Curves to the left are a mirror image of what is shown.

$m$  = 30% of L

$W$  = 24' regardless of paved lane width

① Smooth curve established at time of construction.

② Spiral length coincides with runoff length (L).

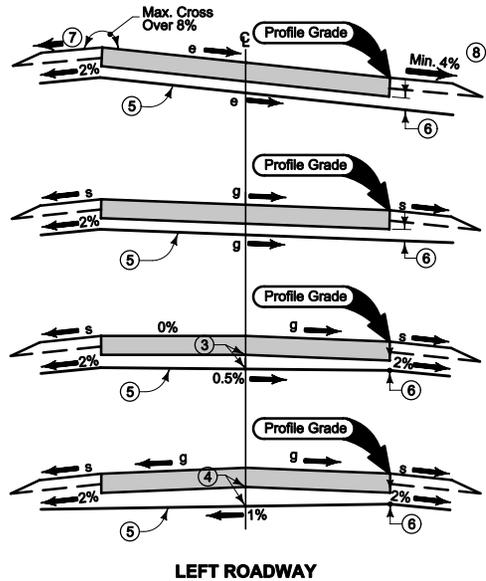


g = Normal Cross Slope  
e = Full Superelevation

AXIS OF ROTATION AT ADJACENT PAVEMENT EDGES

	REVISION
	NEW 04-20-10
<b>STANDARD ROAD PLAN</b>	<b>PV-302</b>
REVISIONS: New. Replaces RP-2	SHEET 1 of 2

APPROVED BY DESIGN METHODS ENGINEER  
*Deanna Maifeld*  
**SUPERELEVATION DETAILS**  
**FOUR LANE DIVIDED ROADWAYS**



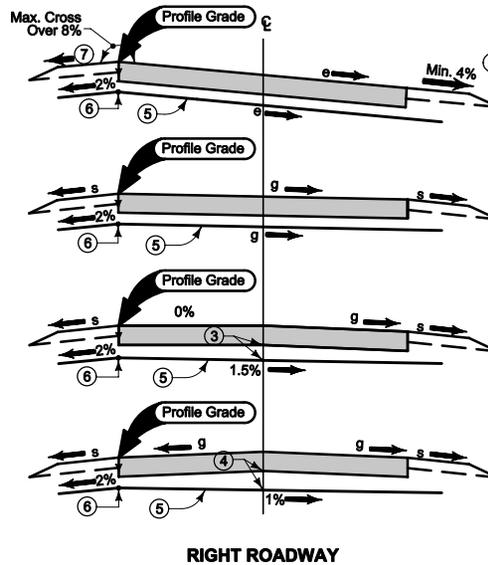
LEFT ROADWAY

SECTION D-D

SECTION C-C

SECTION B-B

SECTION A-A



RIGHT ROADWAY

- ③ 8.0"
- ④ 10.3"
- ⑤ Subgrade Surface
- ⑥ 6.0"
- ⑦ High Side: Maintain normal shoulder slope,  $s$ , unless this slope produces a grade break with adjacent pavement of more than 8.0%. Then determine the shoulder slope by a 8.0% break with adjacent pavement. If superelevation slope exceeds 7.0%, maintain a 1% slope away from mainline.
- ⑧ Low Side: Maintain the normal shoulder slope,  $s$ , unless the adjacent pavement slope is steeper. Then slope the shoulder at the same rate as the adjacent pavement.

 <b>Iowa Department of Transportation</b>	<small>REVISION</small> NEW 04-20-10
	<b>PV-302</b> <small>SHEET 2 of 2</small>
<small>REVISIONS: New. Replaces RP-2</small>	
 <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
<b>SUPERELEVATION DETAILS</b> <b>FOUR LANE DIVIDED ROADWAYS</b>	