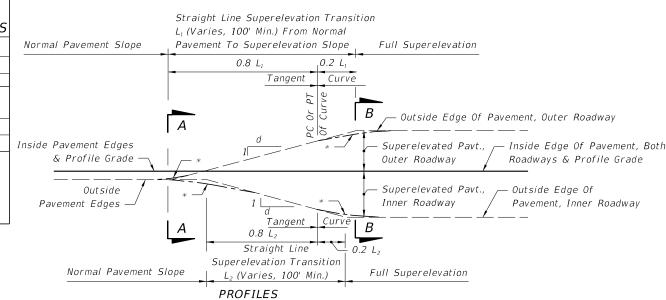
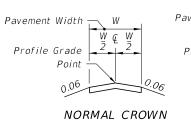


SLOPE RATIOS FOR SUPERELEVATION TRANSITIONS DESIGN SPEED, MPH SECTION 45-50 55-60 65-70 1 : d 2 Lane & 1:200 1:225 1:250 4 Lane 6 Lane 1:160 1:180 1:200 1:170 8 Lane 1:150 1:190

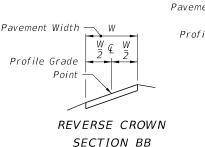
The length of superelevation transition is to be determined by the relative slope between the travel way edge of pavement and the profile grade, except that the minimum length of transition shall be 100 ft.

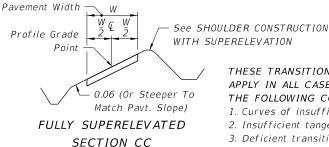
* Short Vertical Curves Are To Be Used On Construction To Avoid Angular Breaks In Edge Profiles





SECTION AA





THESE TRANSITION DETAILS ARE TO APPLY IN ALL CASES, EXCEPT UNDER THE FOLLOWING CONDITIONS:

- 1. Curves of insufficient length.
- 2. Insufficient tangent length between curves.
- 3. Deficient transition distance between a curve and other control point(s).
- 4. At PCC's or PRC's (Runoff rates are applicable).

Profile Grade Points — Pavement Width Median Slope As Indicated On Plans

Match Pavt. Slope) See SHOULDER CONSTRUCTION WITH SUPERELEVATION

Profile Grade Points

See SHOULDER CONSTRUCTION

WITH SUPERELEVATION

0.05 (Or Steeper To

Match Pavt. Slope)

NORMAL SECTION FULLY SUPERELEVATED SECTION AA SECTION BB

0.06 (Or Steeper To

2-LANE, 4-LANE OR 6-LANE PAVEMENT, NO MEDIAN

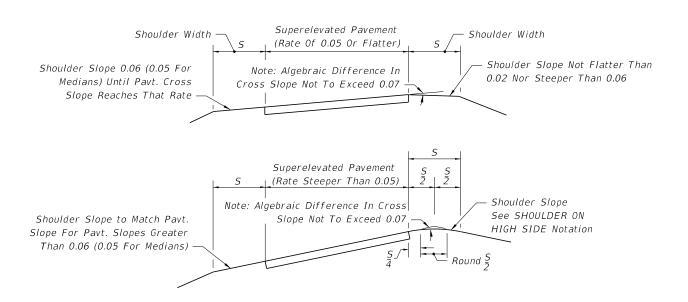
Transitions for these exceptions are to be as detailed in the plans.

4-LANE OR 6-LANE PAVEMENT WITH MEDIAN

SUPERELEVATION TRANSITIONS

NOTES:

- 1. These details apply to both paved and grassed shoulders. For median shoulders use 0.05 in lieu of 0.06.
- 2. SHOULDER ON HIGH SIDE: A shoulder slope of 0.06 downward from the edge of travel way will be maintained until a 0.07 break in slope at the pavement edge is reached due to superelevation of the pavement. As the pavement superelevation increases, the 0.07 break in slope will be maintained and the shoulder flattened until the shoulder slope reaches the minimum of 0.02 downward from the edge of travel way. Any further increase in pavement superelevation will necessitate sloping the inside half of the shoulder toward the travel way and the outer half outward, both at 0.02 for superelevations 0.06-0.09 and both at 0.03 for superelevation 0.10. For shoulders with paved widths 5 feet or less see Special Shoulder Break Over Details on Sheet 2 of 2.
- 3. SHOULDER ON LOW SIDE: Maintain 0.06 cross slope across shoulder until pavement cross slope reaches 0.06. For pavement cross slopes greater than 0.06, shoulder to have same slope as pavement. See SHOULDER SLOPES ON SUPERELEVATION SECTION (Sheet 2).



SHOULDER CONSTRUCTION WITH SUPERELEVATION

REVISION 11/01/18

DESCRIPTION:

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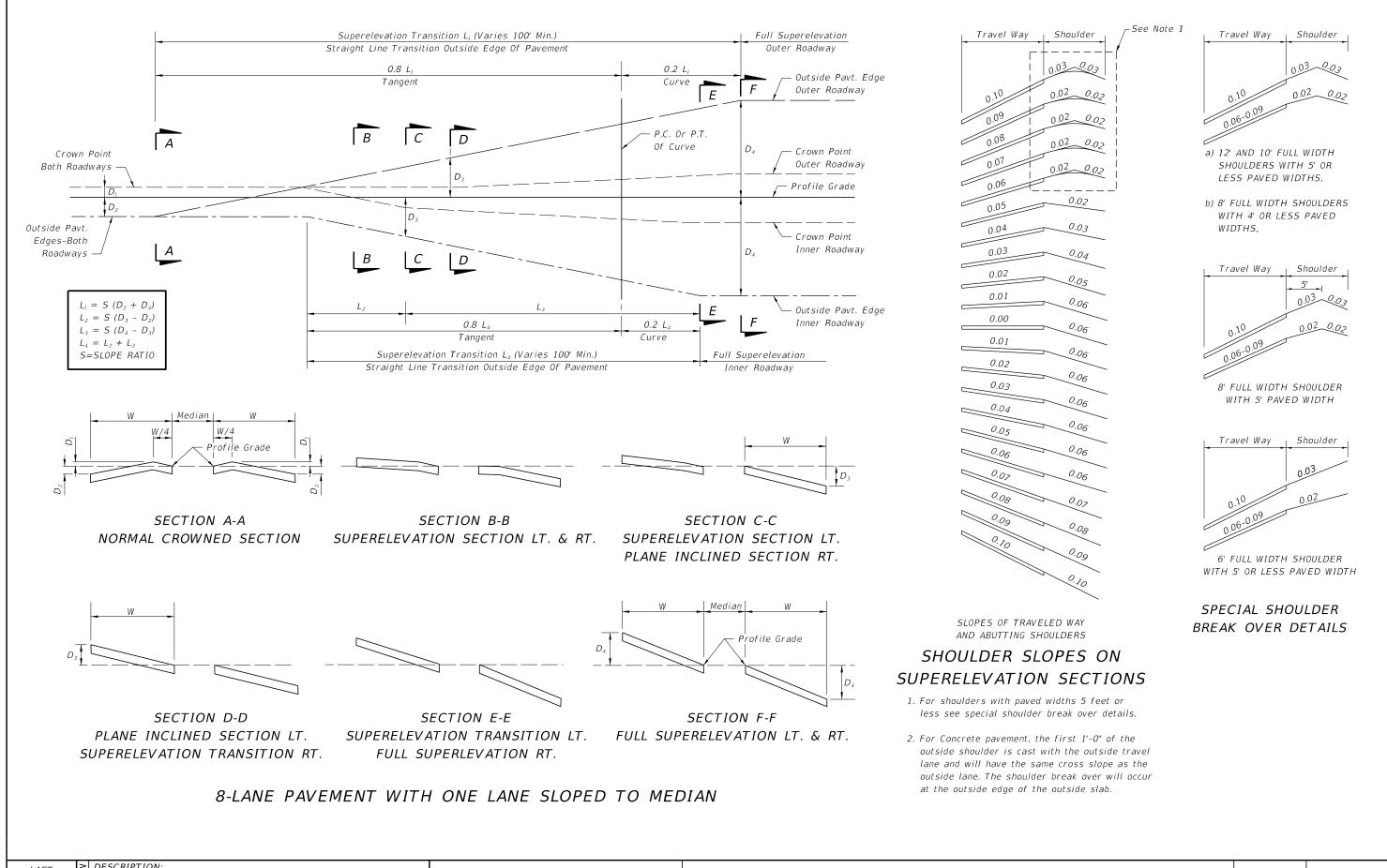
FY 2020-21 STANDARD PLANS

SUPERELEVATION TRANSITIONS -HIGH SPEED ROADWAYS

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