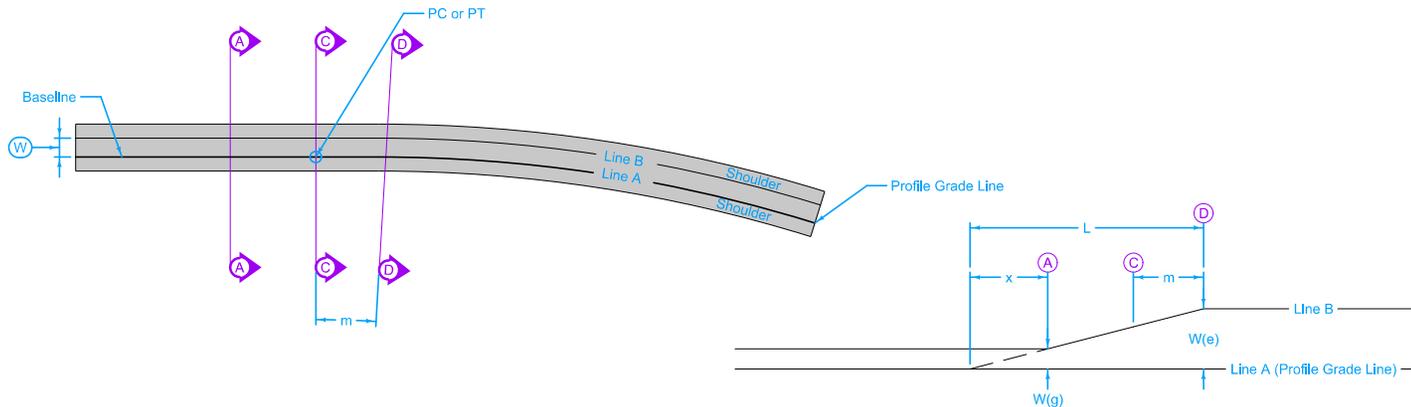


DIAGRAMMATIC PROFILES OF THE PAVEMENT EDGE LINES

**CASE A
TRANSITION DETAILS - TANGENT TO CURVE
WHEN NORMAL CROSS SLOPE IS IN THE OPPOSITE DIRECTION AS SUPERELEVATION**



DIAGRAMMATIC PROFILES OF THE PAVEMENT EDGE LINES

**CASE B
TRANSITION DETAILS - TANGENT TO CURVE
WHEN NORMAL CROSS SLOPE IS IN THE SAME DIRECTION AS SUPERELEVATION**

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

Place 70% of full superlevation at the P.C. and P.T.

Place 30% of the runoff length within the curve.

Unless otherwise specified, all lengths are measured along the baseline.

Smooth curves should be established at the time of construction at sections A-D along the profile edge of lines A and B.

Axis of rotation coincides with profile grade location.

m = 30% of Runoff Length (L)

W = Pavement Width

g = Normal Cross Slope (2%)

L = Distance to Change Cross Slope from 0% to e

e = Superlevation Rate

x = Distance to Change Cross Slope from 0% to 2%

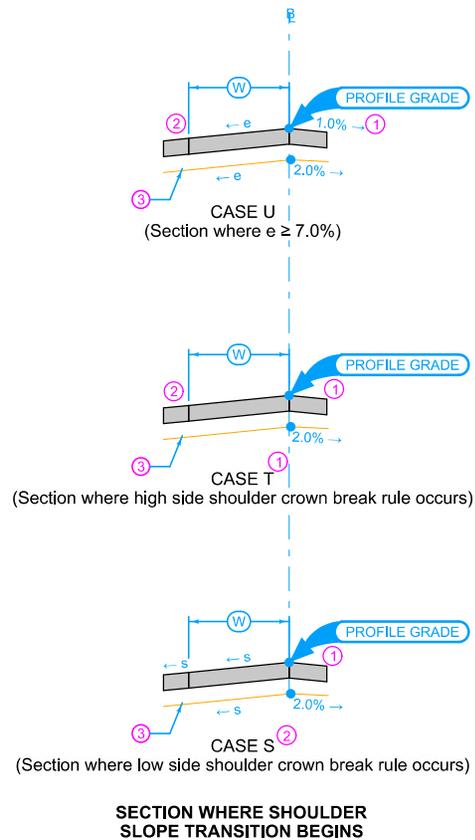
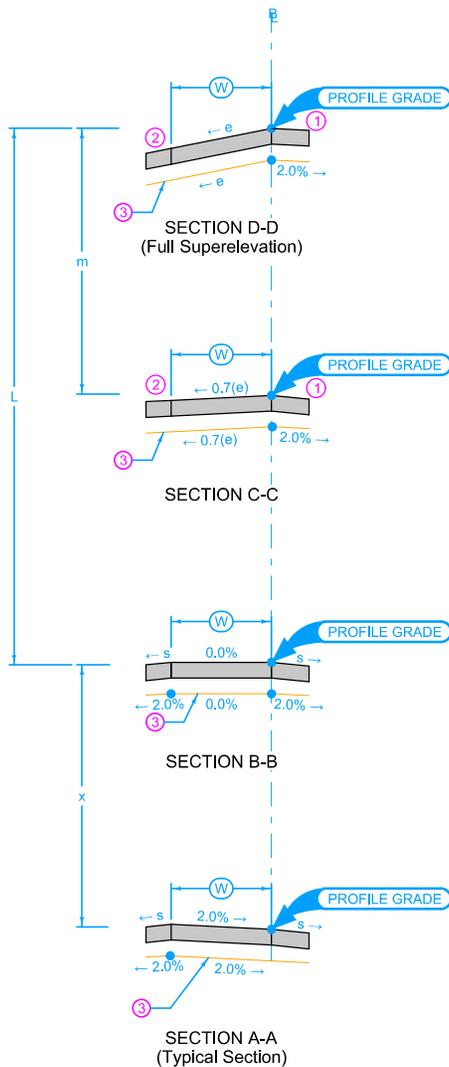
s = Normal Shoulder Slope

Possible Tabulation:
101-18

IOWA DOT	REVISION	
	2	04-21-20
STANDARD ROAD PLAN	PV-303	
REVISIONS: New logo.		SHEET 1 of 3

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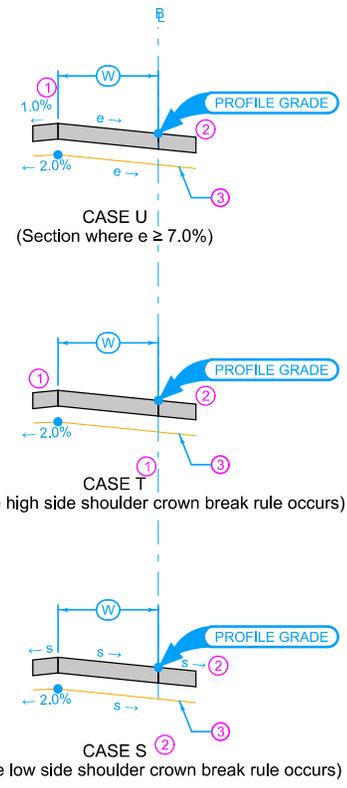
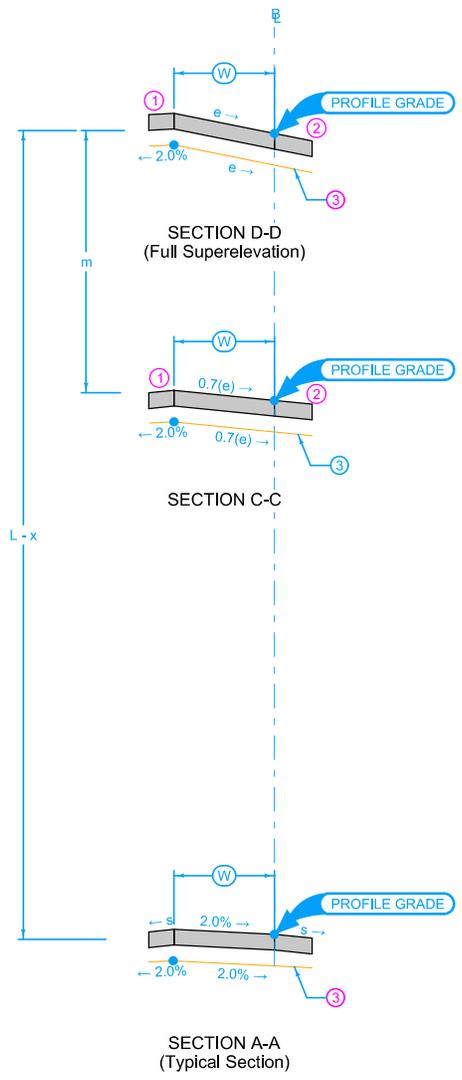
**SUPERELEVATION DETAILS
RAMPS**



- ① High Side Shoulder: Maintain normal shoulder cross slope (s), until the cross slope break with the adjacent pavement reaches 8.0%. Maintain 8% breakover until superelevation rate reaches 7%. If superelevation rate exceeds 7.0%, maintain a 1% shoulder cross slope away from the adjacent pavement.
- ② Low Side Shoulder: Maintain normal shoulder cross slope (s) until the adjacent pavement slope equals s , then slope the shoulder at the same cross slope as the adjacent pavement.
- ③ Subgrade Surface: Subgrade surface cross slope parallel to pavement surface cross slope.

CASE A

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SUPERELEVATION DETAILS RAMPS		



SECTION WHERE SHOULDER SLOPE TRANSITION BEGINS

CASE B

- ① High Side Shoulder: Maintain normal shoulder cross slope (s), until the cross slope break with the adjacent pavement reaches 8.0%. Maintain 8% breakover until superelevation rate reaches 7%. If superelevation rate exceeds 7.0%, maintain a 1% shoulder cross slope away from the adjacent pavement.
- ② Low Side Shoulder: Maintain normal shoulder cross slope (s) until the adjacent pavement slope equals s, then slope the shoulder at the same cross slope as the adjacent pavement.
- ③ Subgrade Surface: Subgrade surface cross slope parallel to pavement surface cross slope.

IOWA DOT	REVISION	
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