

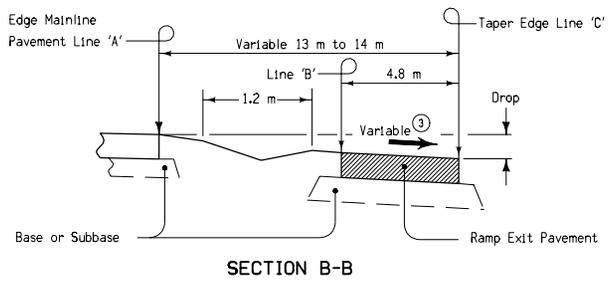
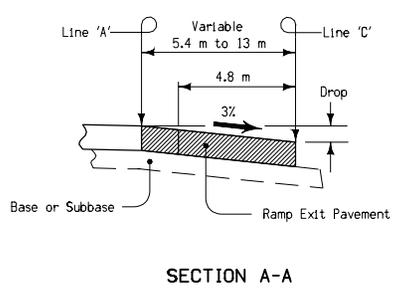
NOTE: The algebraic difference between profile grade for Ramp Base Line at (M) and relative profile grade of Mainline at (C) is 0.2%

PROFILE

TABLE OF OFFSETS AND DROPS FOR 4.8 m RAMP TAPER

Distance (m) From Point C Along Line A	210	200	190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0
Offset (m) From Line A To Line C	0	0.667	1.333	2.000	2.667	3.333	4.000	4.667	5.333	6.000	6.667	7.333	8.000	8.667	9.333	10.000	10.667	11.333	12.000	12.667	13.333	14.000
Drop (mm) From Line A To Line C	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420

NOTE: The elevations at edge of taper from BEGIN TAPER to POINT (M) are established by a constant 3% slope across the appropriate taper widths based on the Taper Ratio of 15:1, Drop = (0.03) x (Offset).



GENERAL NOTES:

This detail sheet shows ramp alignment and grade data for the ramp exit pavement.

Ramp exit pavement shall be the same thickness as the mainline pavement. Ramp exit subbase for both HMA and PCC pavement shall be the same thickness as the mainline subbase.

Ramp exit pavement area shown by shaded area is 1345 square meters.

In order to assure proper drainage, any special shaping of exit area between lines A and B shall be accomplished by methods approved by the Engineer.

Refer to Detail Sheet 550-5 for jointing layout.

Refer to typical cross sections and appropriate Standard Road Plans for design details and requirements for shoulders.

- ① For header construction details at the beginning of taper, refer to the appropriate Typical 7101 or 7102.
- ② Refer to detail project plans for ramp alignment, profile grade, and superelevation data. Equate Point 'M' (Ramp Stationing) to Point 'C' (Mainline Stationing).
- ③ The ramp pavement cross slope between point (K) and point (M) is determined by superelevation rotated about Line C. Refer to Standard Road Plan RP-3 and detail project plans for superelevation transition requirements.

This design is based on 100 km/h design speed at e max = 6%.

For location equivalent stations see Tabulation [101-15]

All dimensions given in millimeters unless noted.

METRIC VERSION	M	Iowa Department of Transportation Highway Division	
	STANDARD ROAD PLAN		RV-4
	REVISION: Added Note Equating Point 'M' to Point 'C'.		REVISION NO. 3
	<i>William J. Sten</i> APPROVED BY DESIGN METHODS ENGINEER		REVISION DATE 10-29-02
DECELERATION TAPER FOR 4.8 m EXIT RAMP			