

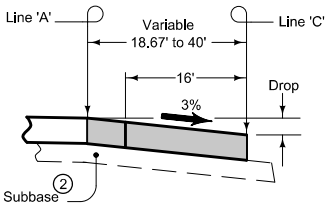
NOTE: The algebraic difference between profile grade for Ramp Base Line at (M) and relative profile grade of Mainline at (C) is 0.2%.

PROFILE

TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER

DISTANCE (FL)	600	575	550	525	500	475	450	425	400	375	350	320	300	275	250	225	200	175	150	125	100	75	50	25	0
OFFSET (FL)	0	1.67	3.33	5.00	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.67	20.00	21.67	23.33	25.00	26.67	28.33	30.00	31.67	33.33	35.00	36.67	38.33	40.00
DROP (Ft.)	0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.56	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.15	1.20

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).



SECTION A-A

TABLE OF SHOULDER TRANSITION LENGTHS

W	Shoulder Width beyond Edge of Mainline Pavement		
	8'	10'	12'
12'	NA	60'	90'
14'	30'	60'	NA

NOTE: W is the width of the outside lane to the Edge of Pavement.

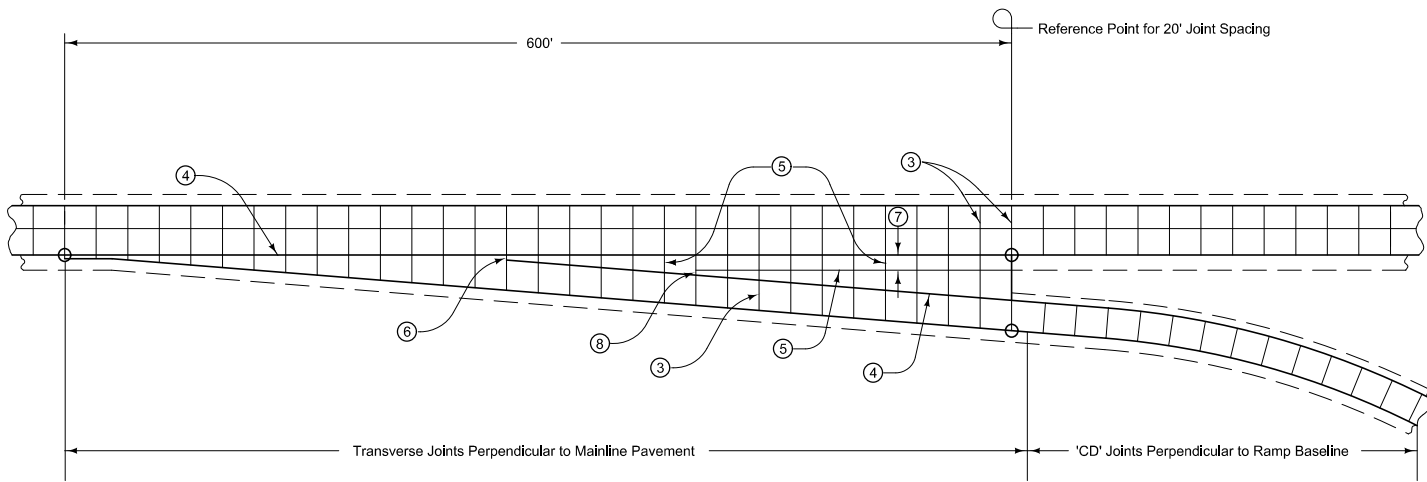
Construct ramp exit pavement the same thickness as mainline pavement.

Ramp exit pavement shown by shaded area is 1334 square yards.

For joint details, see PV-101.


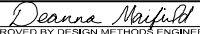
- ① For header construction details at the beginning of taper, see Typical 7101 or Typical 7102.
- ② Construct subbase for ramp exit pavement the same thickness as mainline subbase.

 Iowa Department of Transportation	REVISION
	2 10-18-11
STANDARD ROAD PLAN	PV-410
SHEET 1 of 2	
<i>Deanna Maifield</i> APPROVED BY DESIGN METHODS ENGINEER	
DECELERATION TAPER FOR 16' EXIT RAMP	



16' EXIT RAMP

- ③ 'CD' Joints at 20' spacing.
- ④ 'BT-2' joint for existing pavement or 'KT-2' for new pavement .
- ⑤ 'C' Joint.
- ⑥ 'B' Joint. 2' minimum. 4' maximum.
- ⑦ 10' minimum or equal to mainline shoulder width.
- ⑧ 'B' or 'C' Joint. 2' minimum. 4' maximum.

 Iowa Department of Transportation	REVISION	
	2	10-18-11
STANDARD ROAD PLAN	PV-410	
	SHEET 2 of 2	
REVISIONS: Added 'C' Joint and circle notes 7 and 8.		
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DECELERATION TAPER FOR 16' EXIT RAMP		