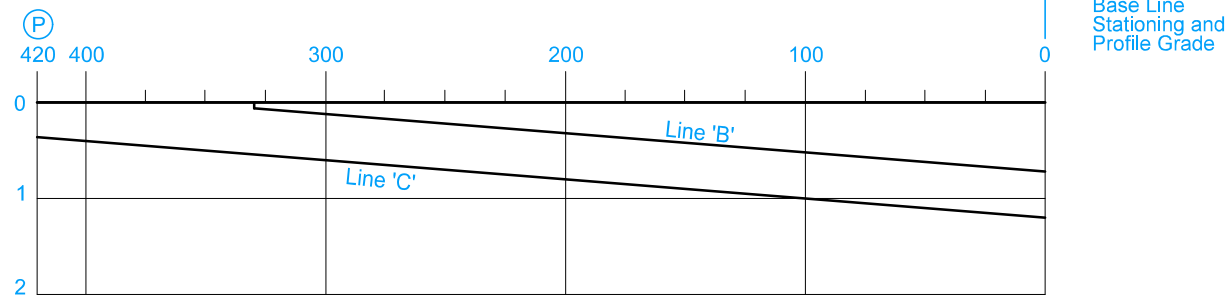


PLAN

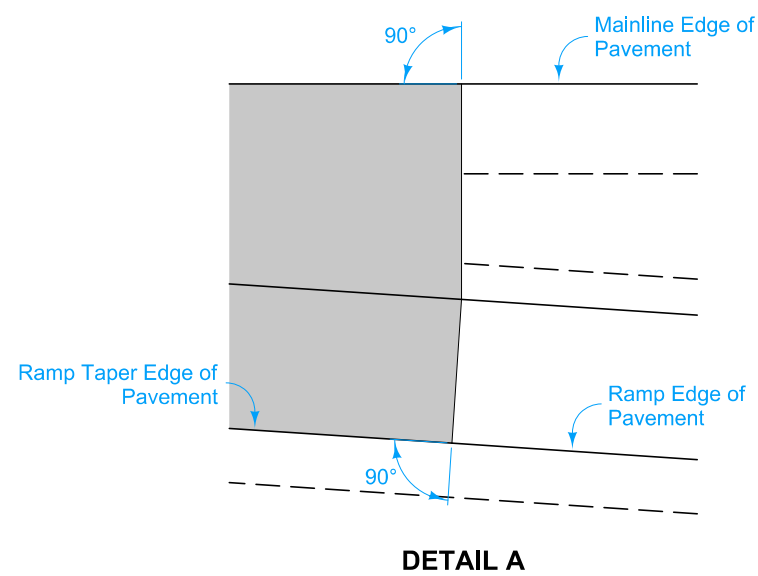
TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER

DISTANCE (Ft.)	420	400	375	350	330	325	300	275	250	225	200	175	150	125	100	75	50	25	0
OFFSET (Ft.)	12.00	13.37	15.04	16.70	18.04	18.37	20.04	21.70	23.37	25.04	26.70	28.37	30.04	31.70	33.37	35.04	36.70	38.37	40.00
DROP (Ft.)	0.36	0.40	0.45	0.50	0.54	0.55	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

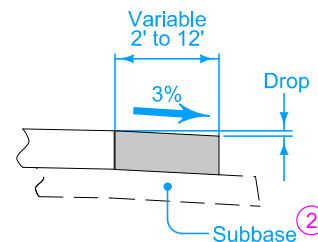


Note: The algebraic difference between the profile grade for ramp base line at (M) and relative profile grade of mainline at (C) is 0.20%

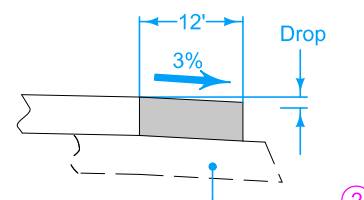
PROFILE



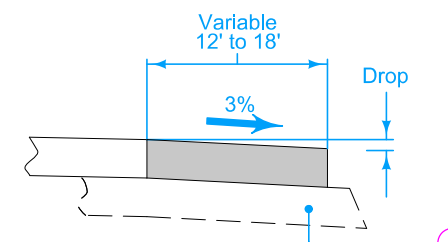
DETAIL A



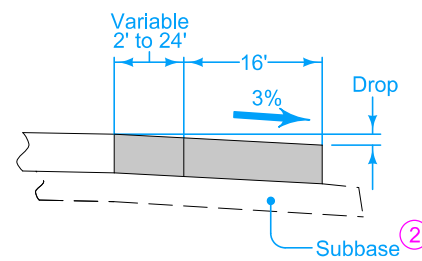
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

TABLE OF SHOULDER TRANSITION LENGTHS WITH 6' SHOULDER ON RAMP

$W_o$	Shoulder Width beyond Edge of Mainline Pavement		
	8'	10'	12'
12'	NA	100'	150'

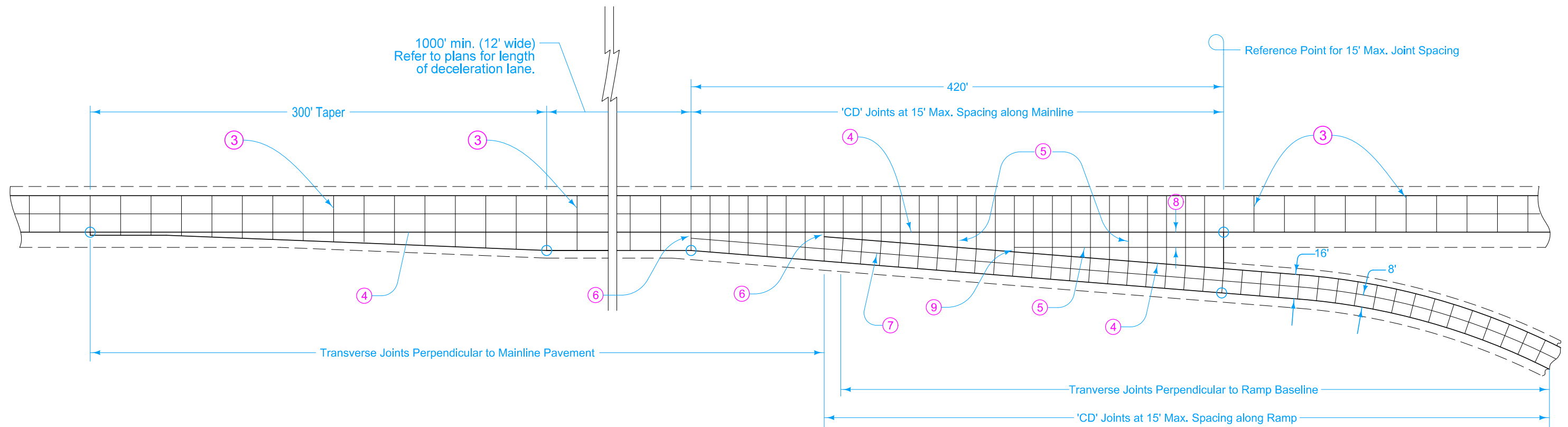
NOTE:  $W_o$  is the width of the outside lane to the Edge of Pavement.

Construct ramp exit pavement the same thickness as mainline pavement.

For joint detail, see PV-101.



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

	REVISION
	NEW 4-21-26
<b>STANDARD ROAD PLAN</b>	
PV-401	
SHEET 1 of 2	
REVISIONS: Replaces detail 533-01	
APPROVED BY DESIGN METHODS ENGINEER	
<b>PARALLEL DECELERATION TAPER FOR 16' RAMP (60 MPH DESIGN SPEED)</b>	



### 16' EXIT RAMP WITH PARALLEL DECELERATION LANE

- ③ 'CD' Joints at 17' spacing.
- ④ 'BT-2' Joint.
- ⑤ 'C' Joint.
- ⑥ 'B' Joint. 2' minimum, 4' maximum.
- ⑦ 'L-2' Joint.
- ⑧ 10' minimum or equal to mainline shoulder width.
- ⑨ 'B' or 'C' Joint. 2' minimum. 4' maximum.

 <b>IOWA DOT</b> <b>STANDARD ROAD PLAN</b>	REVISION	
	NEW	4-21-26
<b>PV-401</b>		SHEET 2 of 2
REVISIONS: Replaces detail 533-01		
 APPROVED BY DESIGN METHODS ENGINEER		
<b>PARALLEL DECELERATION TAPER FOR 16' RAMP (60 MPH DESIGN SPEED)</b>		