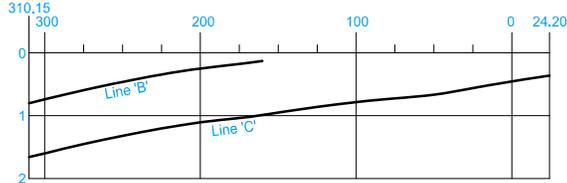
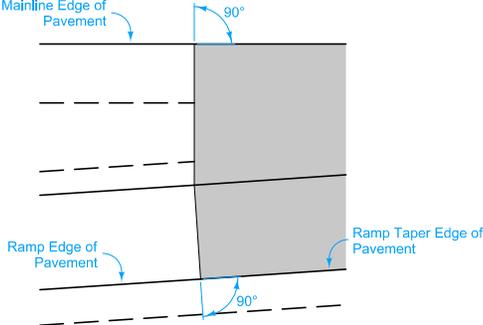


Pt. 'G' to Pt. 'F'  
 $\Delta = 8^\circ 51' 20.88''$   
 $T = 154.87'$   
 $L = 309.13'$   
 $E = 5.99'$   
 $R = 2000.00'$



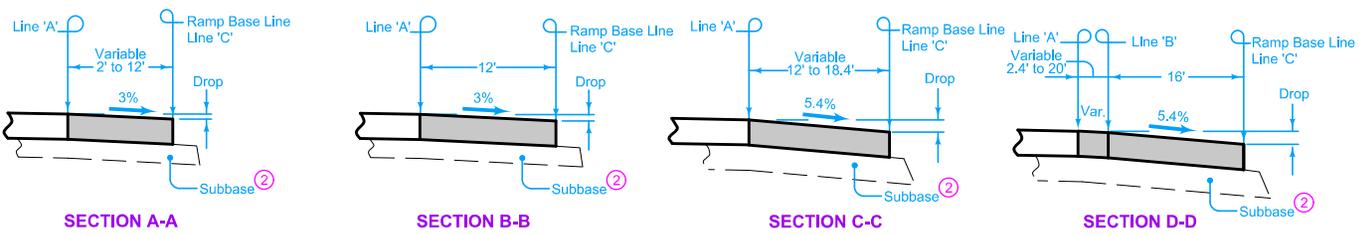
W <sub>6</sub>	Shoulder Width beyond Edge of Mainline Pavement		
	8'	10'	12'
12'	NA	100'	150'



**DETAIL A**

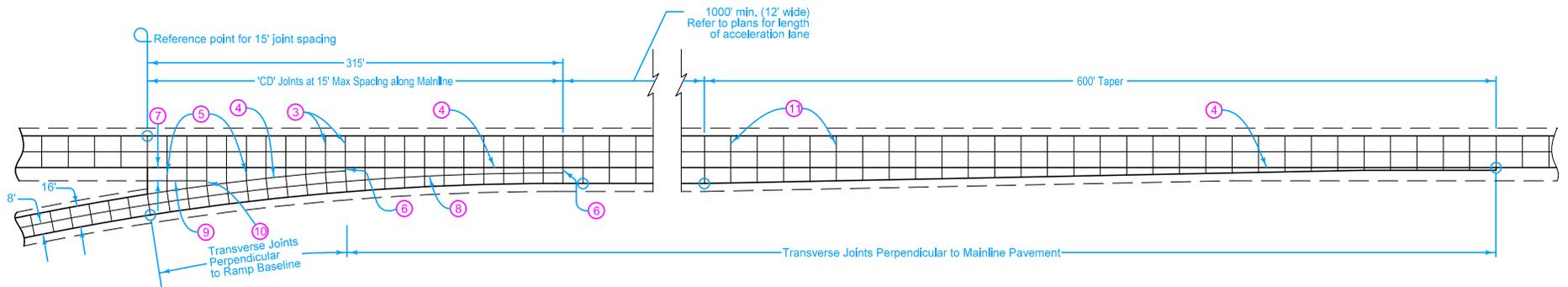
DISTANCE FROM POINT (E) ALONG LINE 'A' (FL)	310.15	300	275	250	225	204	200	175	160.15	150	125	100	75	50	25	0	24.2	
From Line 'A' To Line 'B'	20.00	18.45	14.84	11.56	8.60	6.30	5.95	3.61	2.37									
OFFSET (FL)																		
SLOPE (%)	← Constant 4.0% Slope →										4.11	4.92	5.40					
DROP (FL)	0.80	0.74	0.59	0.46	0.34	0.25	0.24	0.18	0.13									
From Line 'B' To Line 'C'																		
OFFSET (FL)	← Constant 16' Offset →																	
SLOPE (%)	← Constant 5.4% Slope →																	
DROP (FL)	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86									
From Line 'A' To Line 'C'										17.63	15.91	14.50	13.41	12.63	12.16	12.00	12.00	
OFFSET (FL)																		
SLOPE (%)										5.40	5.40	5.40	5.40	5.40	4.59	3.78	3.00	
DROP (FL)	1.66	1.60	1.45	1.32	1.20	1.11	1.10	1.04	0.99	0.95	0.86	0.78	0.72	0.68	0.56	0.45	0.36	
DISTANCE FROM POINT (G) ALONG LINE 'C' (FL)	309.13	298.73	273.67	248.66	223.68	202.73	198.74	173.83	159.04	150.14	125.08	100.04	75.02	50.01	25.00	0.00		

- 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
	2 04-21-20
	<b>533-02</b>
ROAD DESIGN DETAIL	SHEET 1 of 2
REVISIONS: Removed MODIFIED from the detail.	

**PARALLEL ACCELERATION TAPER FOR 16' RAMP (60 MPH DESIGN SPEED)**



- ③ 'CD' Joints at 15' spacing.
- ④ 'BT-2' or 'KT-2' Joint.
- ⑤ 'C' Joint.
- ⑥ 'B' Joint. 2' minimum, 4' maximum.
- ⑦ 10' minimum or equal to mainline shoulder width.
- ⑧ 'L-2' Joint.
- ⑨ 'C' Joint parallel to mainline pavement.
- ⑩ 'B' or 'C' Joint. 2' minimum, 4' maximum.
- ⑪ 'CD' Joints at 17' spacing.

<b>IOWA DOT</b>	REVISION	
	2	04-21-20
<b>ROAD DESIGN DETAIL</b>		<b>533-02</b>
REVISIONS: Removed MODIFIED from the detail.		SHEET 2 of 2

**PARALLEL ACCELERATION TAPER  
FOR 16' RAMP  
(60 MPH DESIGN SPEED)**