

Pt. 'J' to Pt. 'G'
 $\Delta = 7^\circ 26' 54.43''$
 $T = 260.37'$
 $L = 520.00'$
 $E = 8.45'$
 $R = 4000.00'$

- Construct loop entrance pavement the same thickness as mainline pavement.
- Loop entrance pavement shown by shaded area is 1329 square yards.
- For joint details, see PV-101.
- For header construction details at the end of taper, see Typical 7101 or Typical 7102.
 - Construct subbase for loop entrance pavement the same thickness as mainline subbase.

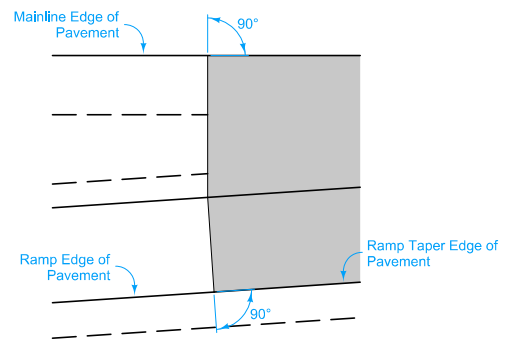
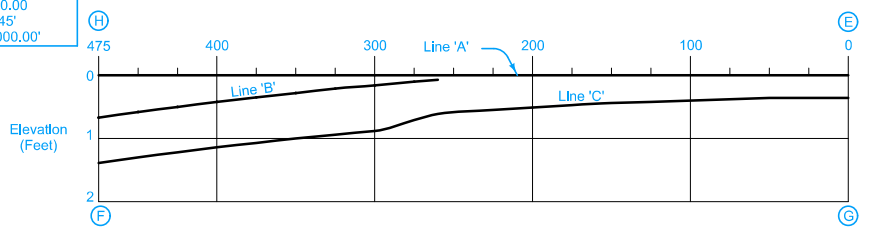


TABLE OF OFFSETS AND DROPS FOR 18' LOOP TAPER

Distance From Point (E) Along Line 'A' (FL)	475	450	425	400	375	350	325	300	275	260	225	200	175	150	125	100	75	50	25	0	
From Line 'A' To Line 'B'	Offset (Ft.)	22.18	19.28	16.54	13.96	11.54	9.27	7.17	5.22	3.42	2.42										
	Slope (%)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00										
	Drop (Ft.)	0.67	0.58	0.50	0.42	0.35	0.28	0.22	0.16	0.10	0.07										
From Line 'B' To Line 'C'	Offset (Ft.)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0											
	Slope (%)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	3.38	3.00										
	Drop (Ft.)	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.61	0.54										
From Line 'A' To Line 'C'	Offset (Ft.)										18.33	17.00	15.83	14.81	13.95	13.25	12.70	12.31	12.08	12.00	
	Slope (%)										3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	Drop (Ft.)	1.39	1.30	1.22	1.14	1.07	1.00	0.94	0.88	0.71	0.61	0.55	0.51	0.47	0.44	0.42	0.40	0.38	0.37	0.36	0.36
Distance From Point (G) Along Line 'C' (Ft.)		473.98	448.93	423.89	398.87	373.86	348.87	323.90	298.93	273.98	260.18	225.12	200.08	175.06	150.03	125.02	100.01	75.00	50.00	25.00	0.00

NOTE: From (G) to (P) cross-slope between Line 'A' and Line 'C' is a constant 3%.

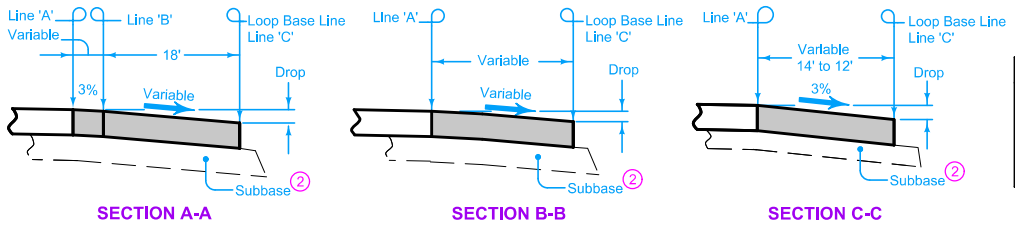


TABLE OF SHOULDER TRANSITION LENGTHS

W	Shoulder Width beyond Edge of Mainline Pavement		
	8'	10'	12'
12'	NA	100'	150'
14'	50'	100'	NA

NOTE: W₁ is the width of the outside lane to the Edge of Pavement.

IOWA DOT

STANDARD ROAD PLAN

REVISIONS: Modified the location of the "L-2" joint on loop pavement. Added Detail A. Modified circle notes on page 2.

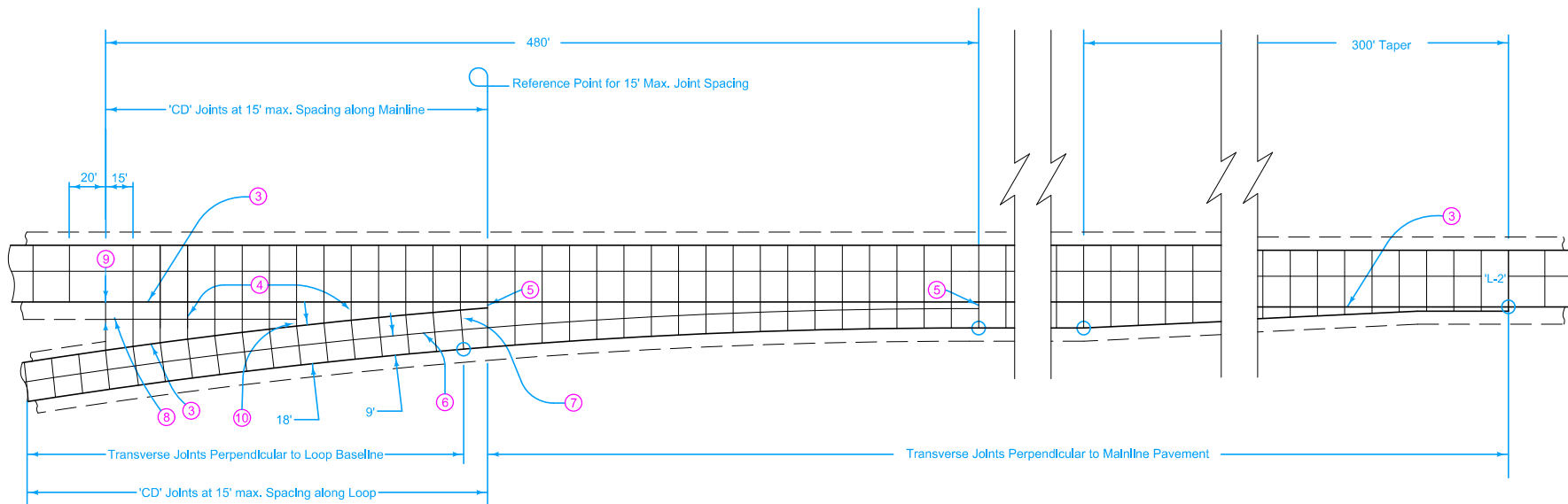
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ACCELERATION TAPER FOR 18' ENTRANCE LOOP

REVISION
3 10-17-17



PV-414

SHEET 1 of 2



18' ENTRANCE LOOP

- ③ 'BT-2' or 'KT-2' Joint.
- ④ 'C' Joint.
- ⑤ 'B' Joint. 2' minimum, 4' maximum.
- ⑥ 'L-2' Joint.
- ⑦ Construct transverse joints on the entrance loop taper perpendicular to the loop baseline where the gore area is 4 feet or greater.
- ⑧ 'C' Joint equal to mainline shoulder.
- ⑨ 10' minimum or equal to mainline shoulder width.
- ⑩ 'B' or 'C' Joint. 2' minimum. 4' maximum.

 STANDARD ROAD PLAN	REVISION 3 10-17-17
	PV-414
	SHEET 2 of 2
REVISIONS: Modified the location of the 'L-2' joint on loop pavement. Added Detail A. Modified circle notes on page 2.	
 APPROVED BY DESIGN METHODS ENGINEER	
ACCELERATION TAPER FOR 18' ENTRANCE LOOP	