

Loop entrance pavement shall be the same thickness as mainline pavement.

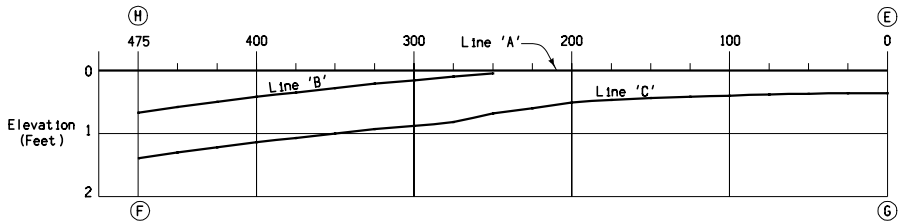
Loop entrance pavement shown by shaded area is 1421 square yards.

Special shaping of area between lines A and B may be required to assure proper drainage.

For jointing layout, see Standard Road Plan RV-11.

This design is based on 60 mph design speed at $e_{max} = 6\%$.

- ① For header construction details at the beginning of taper, refer to Typical 7101 or Typical 7102.
- ② Subbase for loop entrance pavement shall be the same thickness as mainline subbase.
- ③ The loop pavement cross slope between J and F is determined by superelevation rotated about line C. Refer to Standard Road Plan RP-3 and plans for superelevation transition requirements.



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

NOTE: The algebraic difference between profile grade for Loop Base Line at (F) and relative profile grade of Mainline at (H) is 0.36%.

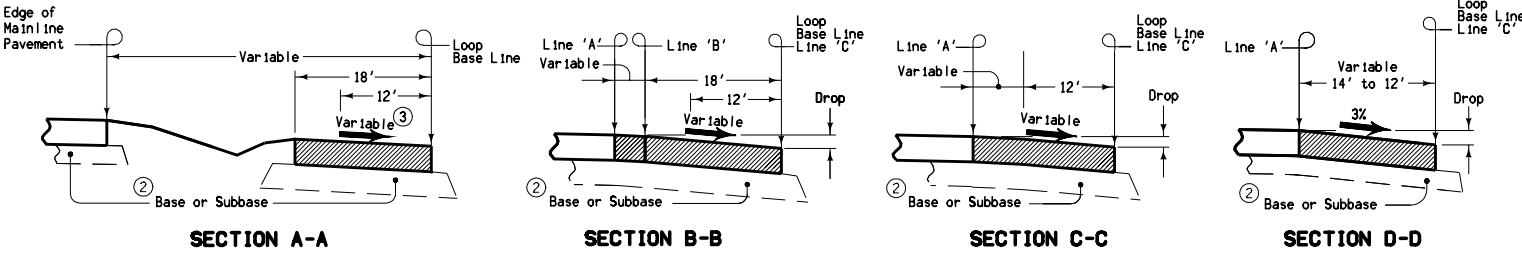
PROFILE

		TABLE OF OFFSETS AND DROPS FOR 18' LOOP TAPER																			
Distance From Point (E) Along Line 'A' (Ft.)		475	450	425	400	375	350	325	300	275	250	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	1.79										
	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	0.21	0.16	0.10	0.05										
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	18.0										
	Slope (%)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	3.80										
	Drop (Ft.)	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.68										
From Line 'A' To Line 'C'	Offset (Ft.)											18.30	16.98	15.81	14.80	13.95	13.25	12.70	12.31	12.08	12.00
	Slope (%)											3.30	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	Drop (Ft.)											0.60	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	249.04	225.13	200.09	175.06	150.04	125.02	100.01	75.00	50.00	25.00	00.00

W ₀	Shoulder Width beyond Edge of Mainline Pavement		
	8'	10'	12'
12'	NA	100'	150'
14'	50'	100'	NA

NOTE: W₀ is the width of the outside lane to the Edge of Pavement.

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



STANDARD ROAD PLAN

REVISIONS: Corrected circle note 2. Removed mainline pavement and shoulder widths. Added table for shoulder transition distance.

Deanna Macfadyen
APPROVED BY DESIGN METHODS ENGINEER

REVISION

5	10-21-08
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RV-9

SHEET 1 of 1

ACCELERATION TAPER FOR 18' ENTRANCE LOOP