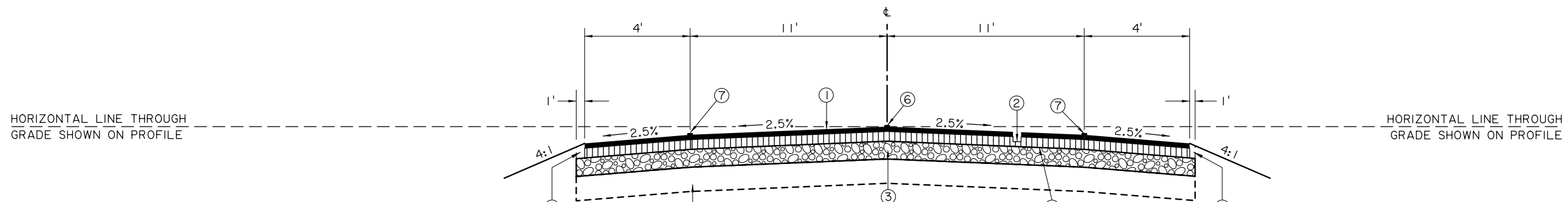


**TYPICAL GRADING SECTION (N.T.S.)**  
 APPLIES STA. 100+00.00 TO STA. 141+10.32  
 STA. 145+93.27 TO STA. 152+93.80  
 STA. 157+26.65 TO STA. 179+87.45  
 STA. 187+92.39 TO STA. 189+75.66

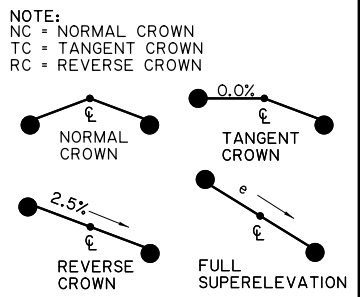
HALF SECTION IN CUT

HALF SECTION IN FILL



**TYPICAL FINISHED SECTION (N.T.S.)**  
 APPLIES STA. 100+00.00 TO STA. 141+10.32  
 STA. 145+93.27 TO STA. 152+93.80  
 STA. 157+26.65 TO STA. 179+87.45  
 STA. 187+92.39 TO STA. 189+75.66

- LEGEND**
- ① 2" SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE (LEVEL 1)
  - ② 2" SUPERPAVE ASPHALTIC CONCRETE BINDER COURSE (LEVEL 1)
  - ③ 8.5" CLASS II BASE COURSE (SOIL CEMENT)
  - ④ TYPE E INTERLAYER ASPHALTIC SURFACE TREATMENT (2 APPLICATIONS) (TO BE PAID FOR UNDER ITEM 507-01-00100)
  - ⑤ 12" TYPE E LIME TREATMENT (9% BY VOLUME) (LOCATIONS TO BE DETERMINED BY P.E)
  - ⑥ PAVEMENT STRIPING & REFLECTORIZED MARKERS
  - ⑦ PAVEMENT STRIPING & SHOULDER RUMBLE STRIP (SEE SHTS. NOS. 65 & 66)
  - ⑧ EMBANKMENT

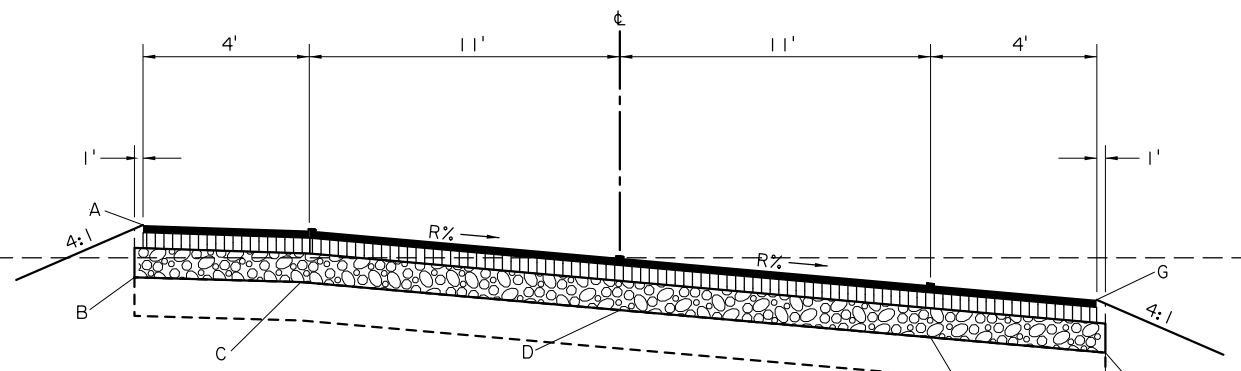


**NOTES:**  
 SUPERELEVATION TO BE ATTAINED BY ROTATING THE OUTSIDE LANE ABOUT THE CENTERLINE (D) UNTIL THE ROADWAY CROSS SLOPE EQUALS 2.5% (TANGENT CROWN). THE ENTIRE ROADWAY WILL THEN ROTATE ABOUT THE CENTERLINE (D) UNTIL A MAXIMUM CROSS SLOPE OF "R" IS OBTAINED. (SEE TABLE)  
 100' VERTICAL CURVE SHALL BE REQUIRED AT ALL ANGULAR BREAKS IN PROFILE.

**TYPICAL SECTION DESIGN DATA**

2011 ADT = 1,400  
 2031 ADT = 2,100  
 PERFORMANCE PERIOD (years) = 20  
 18-kip ESALS = 440,773  
 SOIL RESILIENT MODULUS (psi) = 8,413  
 STRUCTURAL NUMBER REQUIRED (inches) = 2.76  
 STRUCTURAL NUMBER PROVIDED (inches per layer)

1- SUPERPAVE AC WEARING COURSE (LEVEL 1)	= 0.88
2- SUPERPAVE AC BINDER COURSE (LEVEL 1)	= 0.88
3- CLASS II BASE COURSE	= 1.07
STRUCTURAL NUMBER PROVIDED (total inches)	= 2.83



**SUPERELEVATED SECTION (N.T.S.)**  
 APPLIES STA. 141+10.32 TO STA. 145+93.27  
 STA. 152+93.80 TO STA. 157+26.65  
 STA. 179+87.45 TO STA. 187+92.39

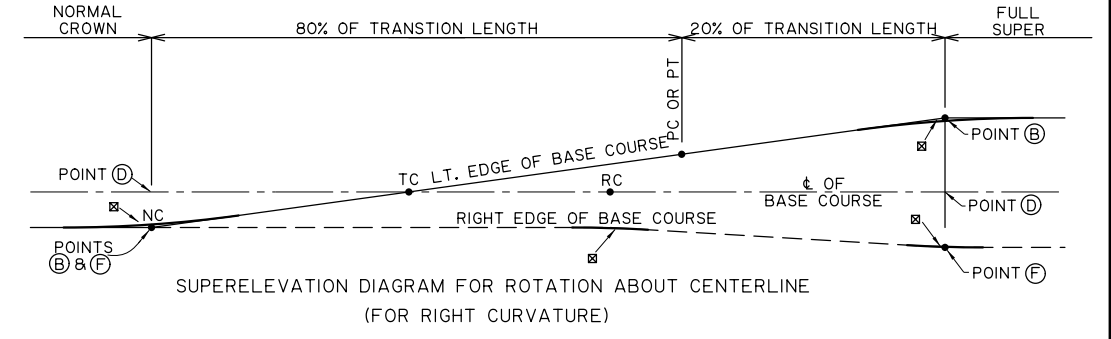


Figure 8-09: Typical Section Rural 2-Lane Asphalt

**SUPERELEVATION DETAILS (IN FEET) WITH REFERENCE TO HORIZONTAL LINE THROUGH GRADE SHOWN ON PROFILE**

STATION RANGE	RADIUS	R	A	B	C	D	E	F	G	BEGINNING TRANSITION LENGTH	ENDING TRANSITION LENGTH	LEFT SHOULDER RATE	RIGHT SHOULDER RATE
NORMAL CROWN	N/A	N.C.	-0.375	-1.43	-1.32	-1.04	-1.32	-1.43	-0.375	N/A	N/A	2.5%	-2.5%
134+29.00 - 141+10.32	400.00'	-4.0%	0.32	-0.73	-0.60	-1.04	-1.48	-1.70	-0.64	120'	75'	3.0%	-5.0%
141+10.32 - 145+93.27	400.00'	4.0%	-0.64	-1.70	-1.48	-1.04	-0.60	-0.73	0.32	75'	120'	5.0%	-3.0%
152+93.80 - 157+26.65	750.00'	2.5%	-0.48	-1.54	-1.32	-1.04	-0.77	-0.90	-0.16	110'	110'	5.0%	-3.0%
179+87.45 - 187+92.39	750.00'	2.5%	-0.48	-1.54	-1.32	-1.04	-0.77	-0.90	-0.16	110'	110'	5.0%	-3.0%

NEGATIVE RATE DENOTES DOWN FROM LEFT TO RIGHT