

APPENDIX F

Exercise 13

p. 13-10

p. 13-18

Exercise 13 p 13-10:

RD01-SE-3

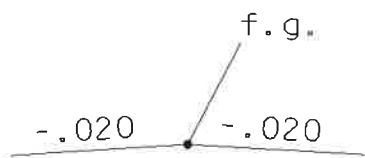
For 2-30' curve, 4 lane road, 60 m.p.h.:

s.e.=.061 (6.1%)

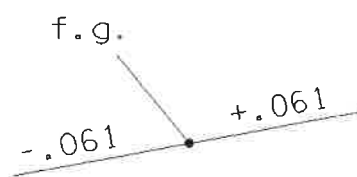
Trans. Length = 325'

Length of spiral = $31099.79 - 30774.79 = 325$

Normal Crown



Full Super



Rt. side, se transitions along full length of spiral

$$\text{Alg. Diff. } 6.1 - (-2.0) = 8.1$$

Lt. side, transition is shorter ($31099.79 - 30935.29 = 164.5'$)

$$\text{Alg. Diff. } 6.1 - 2.0 = 4.1$$

$$4.1/8.1 \times 325 = \underline{164.5}$$

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third of these is the fact that the

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twelfth of these is the fact that the

thirteenth of these is the fact that the

Exercise 13 p 13-18:

RD01-SE-2

For 5-00' curve, 50 mph, 4 lane road:

$$\text{s.e.} = .039 \text{ (3.9\%)}$$

$$\text{Trans. Length} = 215'$$

$$\text{Lt. side, Trans} = 33281.68 - 33066.68 = 215$$

$$\text{Alg. Diff. } 3.9 - (-2.0) = 5.9$$

$$\text{Rt. side, Trans} = 33281.68 - 33212.45 = 69.23$$

$$\text{Alg. Diff. } 3.9 - 2.0 = 1.9$$

$$1.9 / 5.9 \times 215 = \underline{69.23}$$

