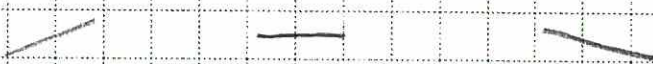


RAMP E2 REVERSE CURVE TRANSITION

$e_d = 0.06$
 $N \times W = 24'$
 $b_w = 1.0$
 $G = 185$

$L_r = (0.06)(24)(185)(1) = 266.4 < 272.7 \rightarrow$ what is actual G value?
transition from 0.06 to flat to 0.06



Length = 272.7'
rotation = 0.06 (0.03 @ PT STA 607+88.35 to
 $N \times W = 24$ 0.03 @ PC STA 610+61.06)
 $b_w = 1$
 $G = ?$

$$G = \frac{272.7'}{(1)(0.06)(24)} = 189.375 > 45 \text{ mph } \checkmark$$

transition from 0.03 to 0.06 at $G = 189.375$

$$L_r = (0.06 - 0.03)(189.375)(1)(24) = 136.35'$$

Rotation:

STA. 606+52.00 \rightarrow 0.06 
STA. 607+88.35 \rightarrow 0.03 
STA. 609+24.70 \rightarrow 0.0 
STA. 610+61.06 \rightarrow 0.03 
STA. 611+97.41 \rightarrow 0.06 

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 40566 JOB NAME Cleveland Innerbelt CCGA SHEET 1 OF 1 SHEETS
SUBJECT Ramp E2 Superlevation PREPARED BY AJR DATE 1-25-10
SCALE _____ CHECKED BY DCL DATE 2-01-10