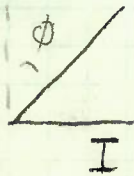


Rail at deck corners

TST-2-21

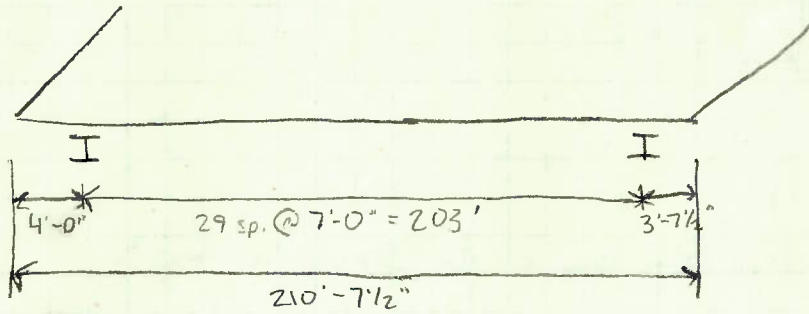
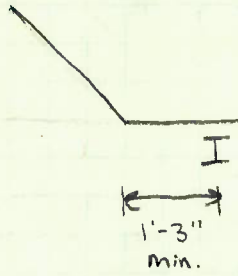


$$1'-3" + (2'-8") \tan \phi$$

$$= 1'-3" + (2'-8") \tan 40$$

$$= 3.49'$$

$$\rightarrow 3'-6" \text{ min.}$$



Bar splices

• #4 longitudinal

BDM 304-4 >12" below  
3" clr  
Class B

splice =  $30 \div 1.2 = 25$ " → Use 28"

CS-1-08

• #5 longitudinal

BDM 304-4 <12" below  
1 1/2" clr  
Class B

splice =  $36 \div 1.2 = 30$ " → Use 36"

Set of bars - 30' max length

• #4 longitudinal

$210' - 7' 1/2" - (2 \times 3" \text{ clr}) + (8 \text{ splices} \times 28") \div 4 \text{ bars} = 25.42$

↓  
9 sets of 25'-6"

**OLD CALCS - NO LONGER ACCURATE**

• #5 longitudinal

$210' - 7' 1/2" - (2 \times 3" \text{ clr}) + (7 \text{ splice} \times 36") \div 8 \text{ bars} = 28.89$

↓  
8 sets of 29'

Bar Schedule

401	Str	25'-6"	<u>144</u>
402	1 (boot)	3'-2"	<u>714</u>
501	Str	29'-0"	<u>80</u>
502	2 (hook)	2'-0"	<u>528</u>
601	2 (hook)	2'-1"	<u>240</u>

4 bars x 2 top/bot x 9 sets x 2 each side = 144

[3 (fanned) + 354 (trans.)] x 2 each side = 714

5 bars x 8 sets x 2 each side = 80

[3 fanned + 261 (trans.)] x 2 each side = 528

4 each post x 30 posts x 2 each side = 240