

Company/Project: /

VersaFrame V6.02 (607.0)
(C) Digital Canal Corp.

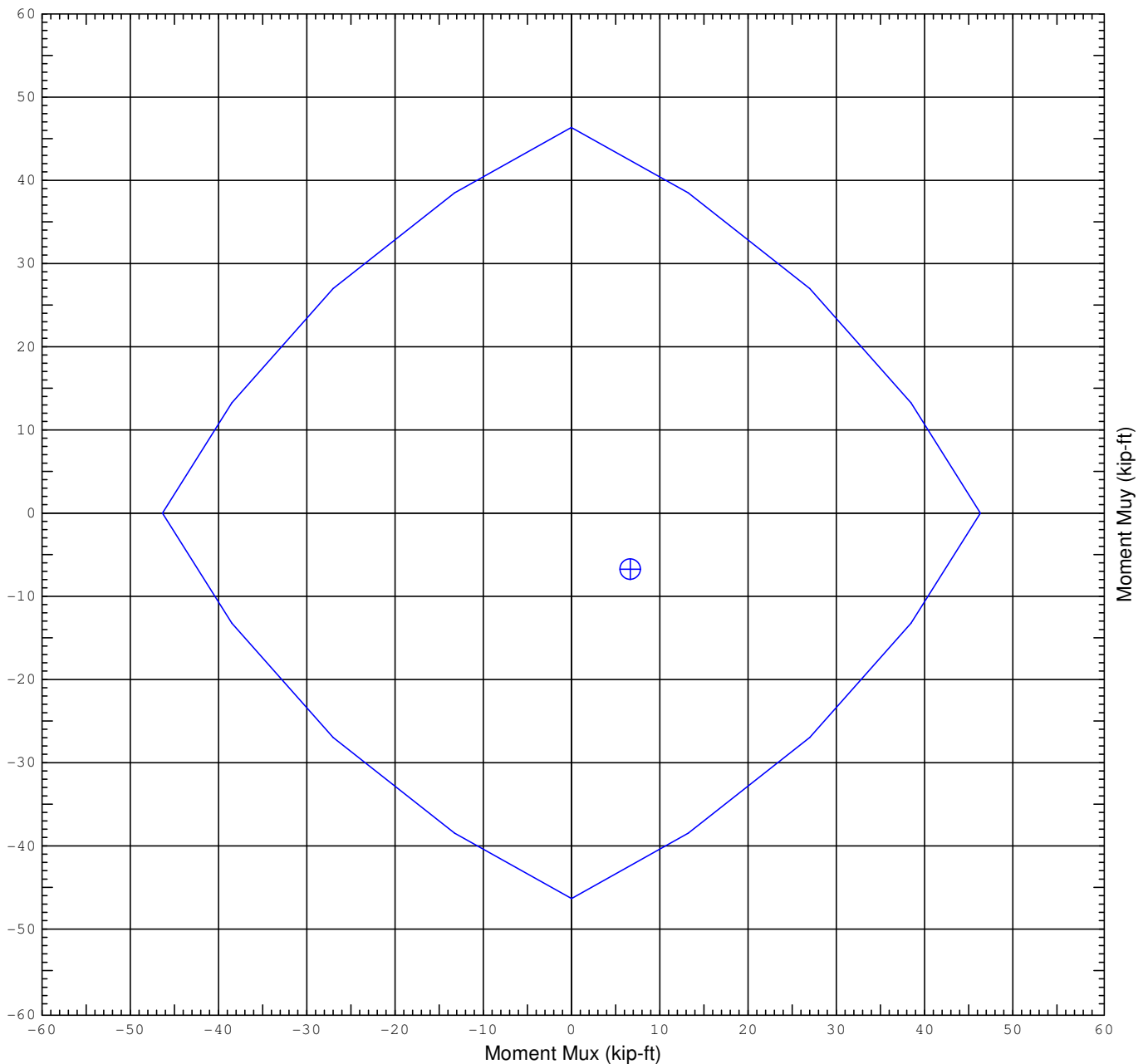
Engineer:

Date/Time: 04/08/13 13:46:42

Member: 1	Node-1: 1	Node-2: 2
Material: Default	Cracking Factor: 1.000	Modulus: 2.9e+004 (kip/in ²)
Fc: 3.000 (kip/in ²)	Fy: 60.000 (kip/in ²)	Fys: 60.000 (kip/in ²)
Section: Rect12x12	Cover to tie: 2.50 (in)	c.c. Cover: 3.38 (in)
Section Type: Rectangular	b x h: 12.00 x 12.00 (in)	
Length: 10.000 (ft)	KLx: 10.000 (ft)	KLy: 10.000 (ft)
Tie legs: 2	Tie size: #3	Confinement: Tied
Pu: 83.000 (kip)	Mux: 6.640 (kip-ft)	Muy: 6.640 (kip-ft)
Cmx: 1.000	Cmy: 1.000	Beta_d: 1.000
Mux magnification: 1.000	Muy magnification: 1.016	
Neutral axis steps: 50	Biaxial angle steps: 16	Excl. displ'd concrete: Yes

RC Design Section: Rect_BH12x12_fc3_fy60_Bars004#8_NX002_NY002_cc3.375		
Total Bars: 4-#8	Bars on width side: 2-#8	Bars on depth side: 2-#8
Ag: 144.00 in ²	As: 3.16 in ²	Roh: 2.19%
Load Comb: Default	Code: ACI 318-11	Unit Check: 0.291

Concrete Column Mux-Muy Interaction Diagram (Pu = 83 kip)



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Node-1: 1

Node-2: 2

Material: Default

Cracking Factor: 1.000

Modulus: 2.9e+004 (kip/in²)

Fc: 3.000 (kip/in²)

Fy: 60.000 (kip/in²)

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Section: Rect12x12

Cover to tie: 2.50 (in)

c.c. Cover: 3.38 (in)

Section Type: Rectangular

b x h: 12.00 x 12.00 (in)

Length: 10.000 (ft)

KLx: 10.000 (ft)

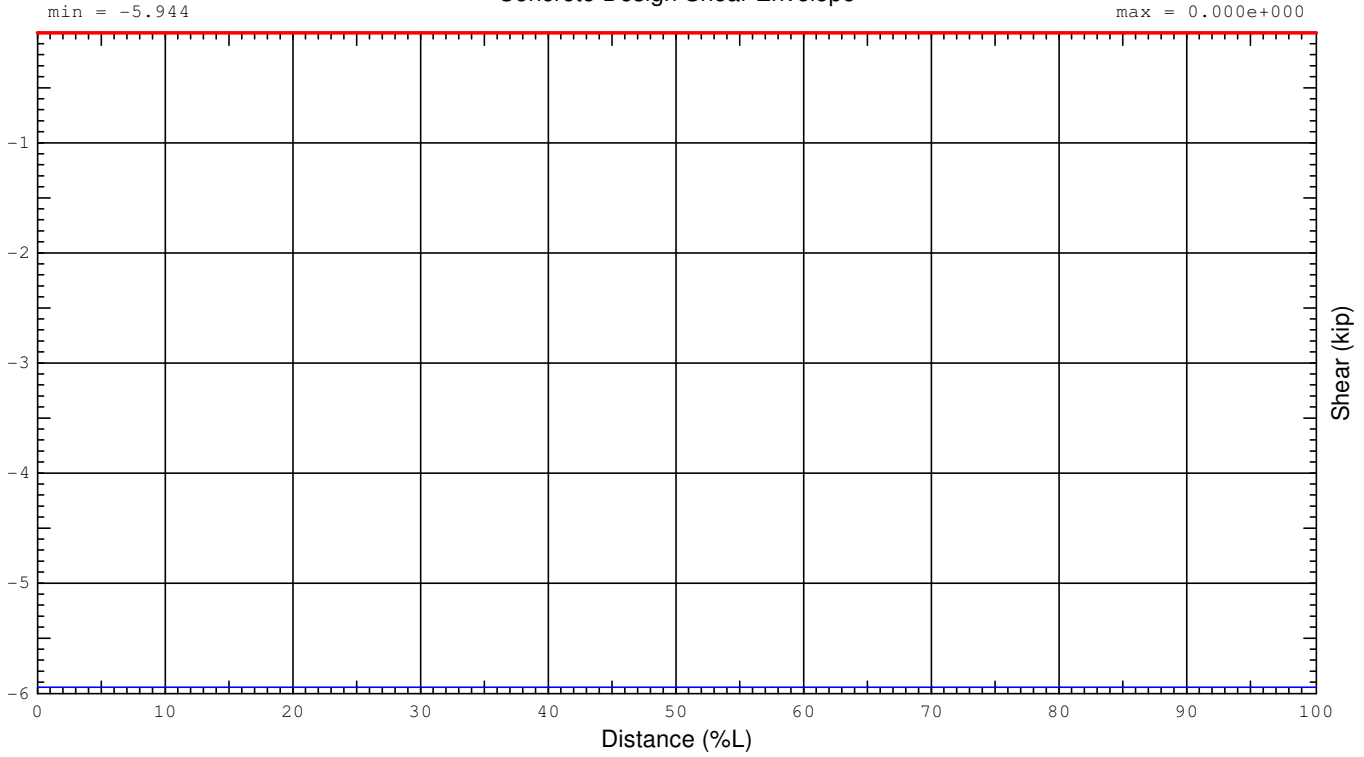
KLy: 10.000 (ft)

Tie legs: 2

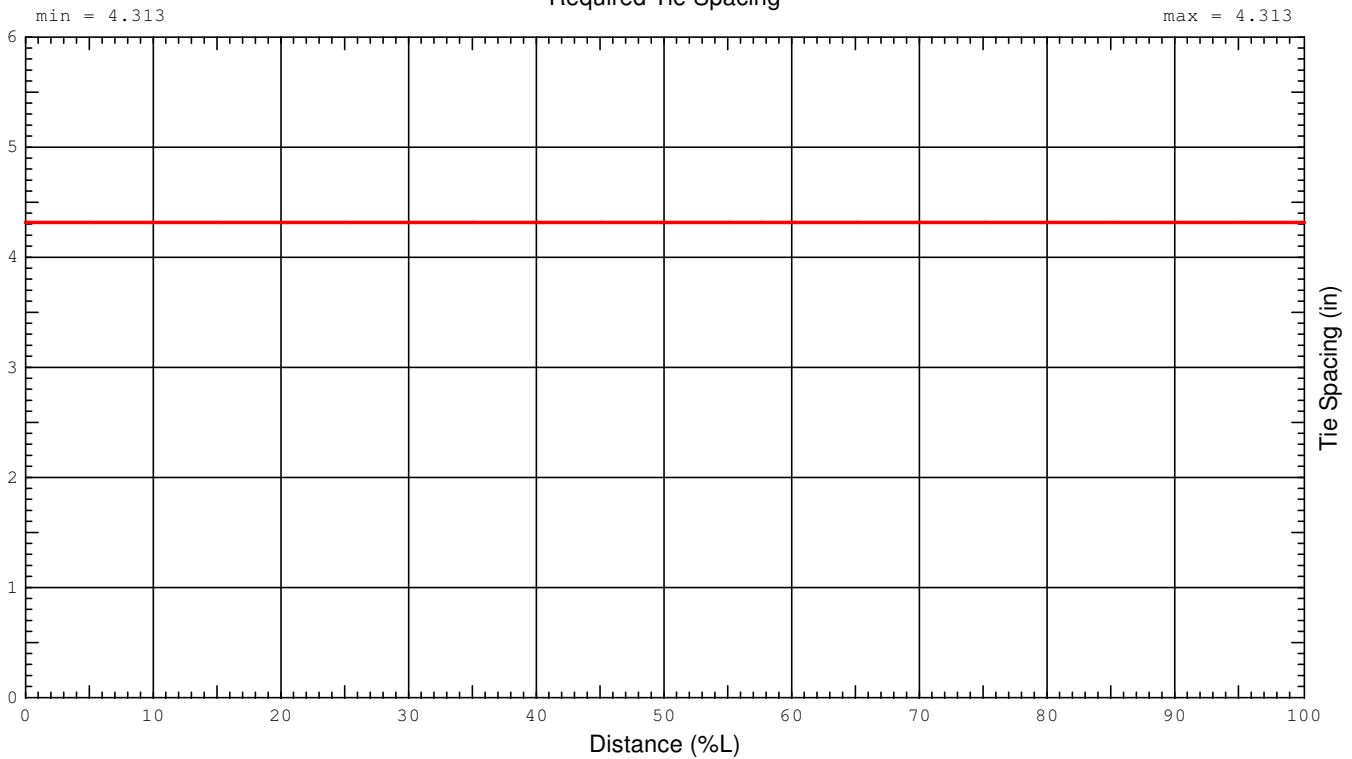
Tie size: #3

Confinement: Tied

Concrete Design Shear Envelope



Required Tie Spacing



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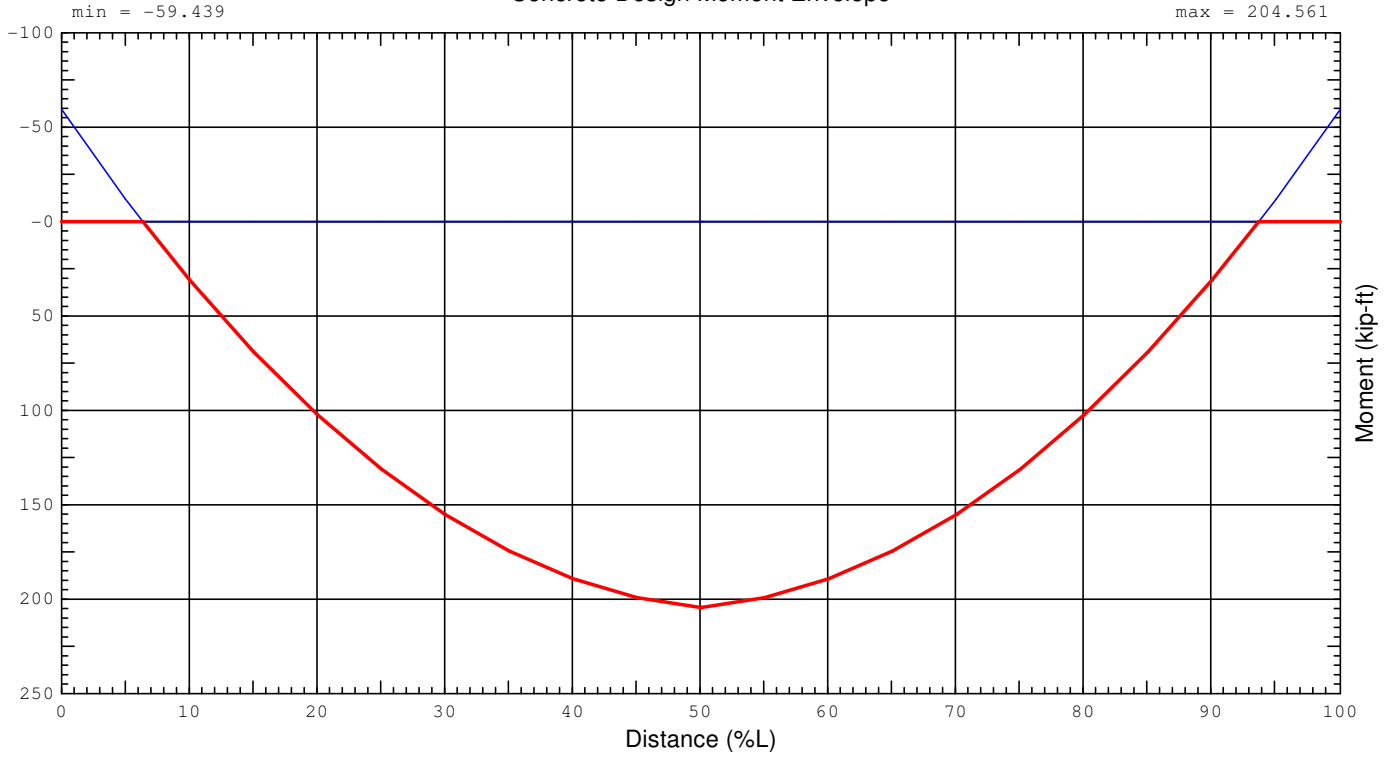
Date/Time: 04/08/13 13:46:42

Member: 2
 Material: Default
 Fc: 3.000 (kip/in²)
 Section: Rect12x18
 Section Type: Rectangular
 Length: 12.000 (ft)
 Stirrup legs: 2

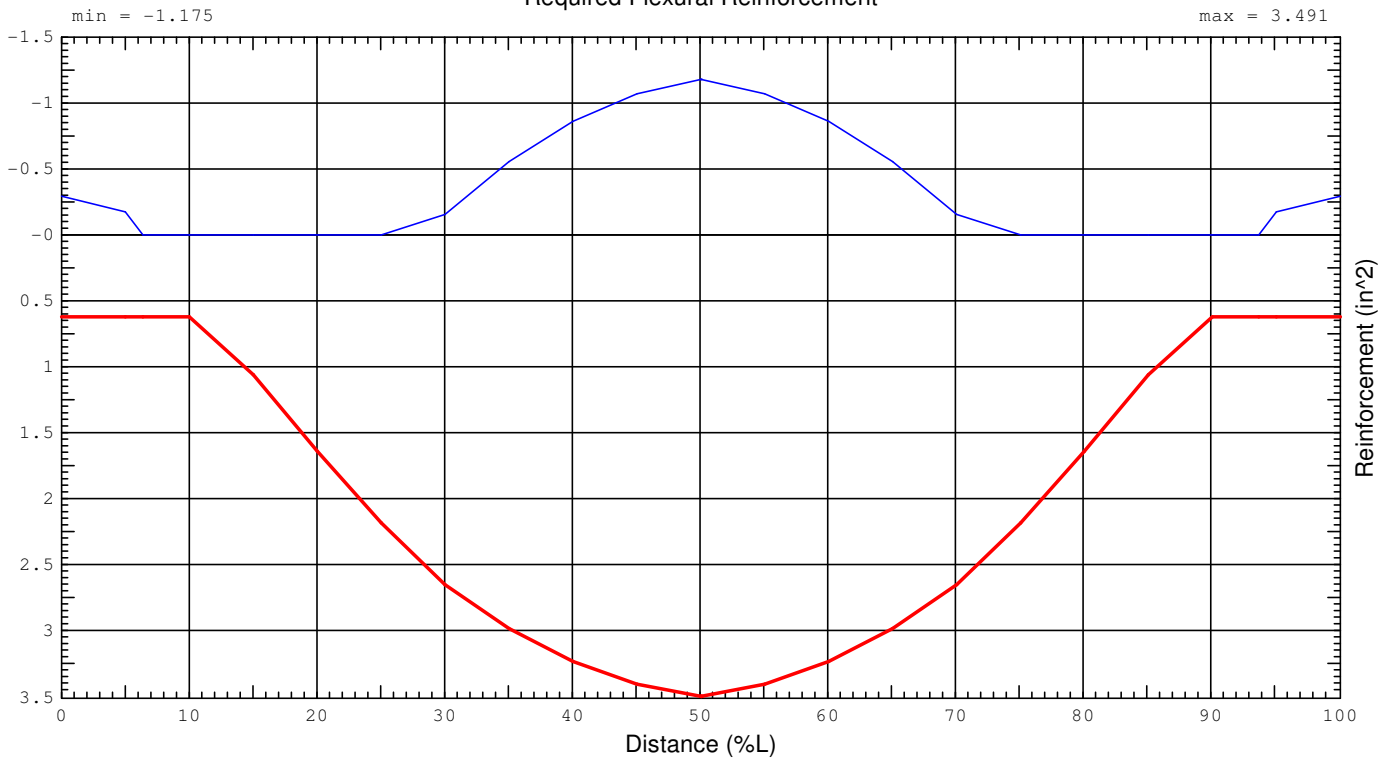
Node-1: 2
 Cracking Factor: 1.000
 Fy: 60.000 (kip/in²)
 Bottom Cover: 2.50 (in)
 b x h: 12.00 x 18.00 (in)
 Supt Face-1: 0.500 (ft)
 Stirrup size: #3

Node-2: 3
 Modulus: 2.9e+004 (kip/in²)
 Fys: 60.000 (kip/in²)
 Top Cover: 2.50 (in)
 Supt Face-2: 0.500 (ft)

Concrete Design Moment Envelope



Required Flexural Reinforcement



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Member: 2

Node-1: 2

Node-2: 3

Material: Default

Cracking Factor: 1.000

Modulus: 2.9e+004 (kip/in²)

Fc: 3.000 (kip/in²)

Fy: 60.000 (kip/in²)

Fys: 60.000 (kip/in²)

Section: Rect12x18

Bottom Cover: 2.50 (in)

Top Cover: 2.50 (in)

Section Type: Rectangular

b x h: 12.00 x 18.00 (in)

Length: 12.000 (ft)

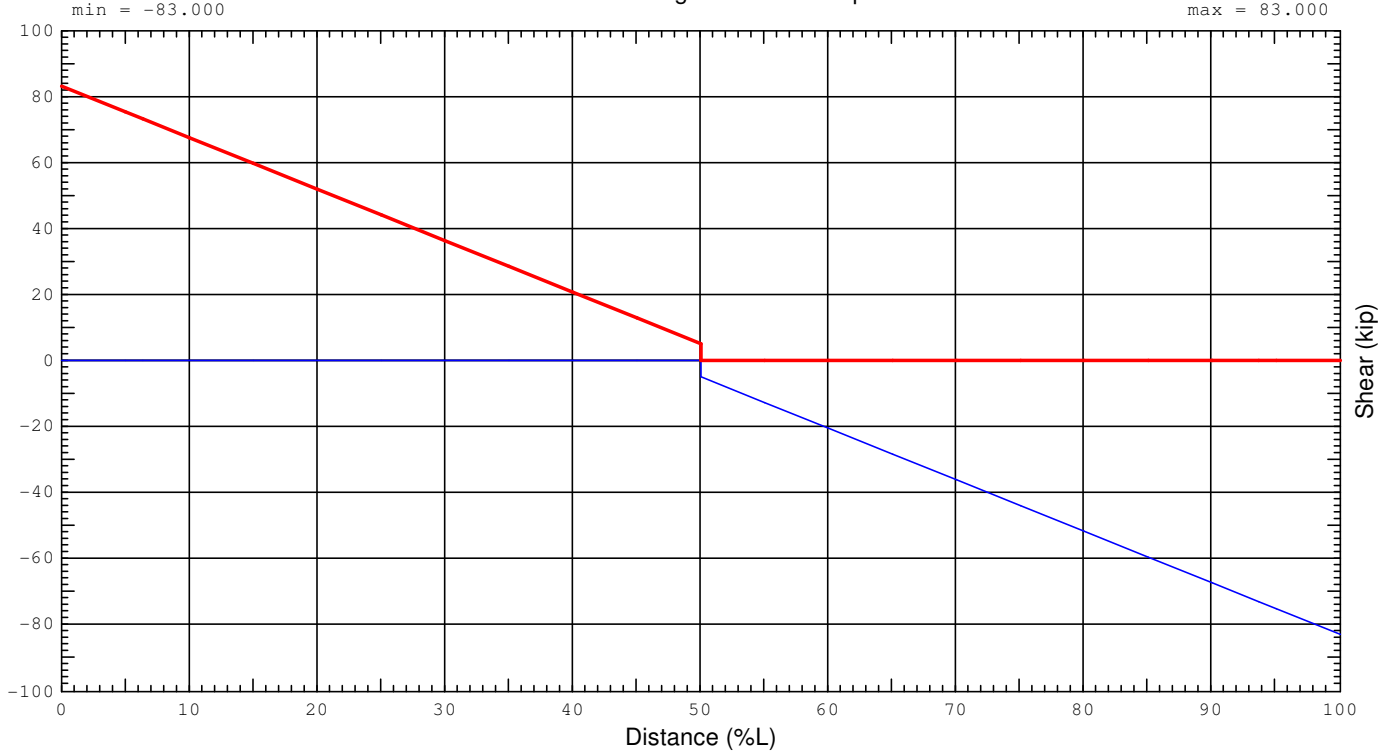
Supt Face-1: 0.500 (ft)

Supt Face-2: 0.500 (ft)

Stirrup legs: 2

Stirrup size: #3

Concrete Design Shear Envelope



Required Stirrup Spacing

