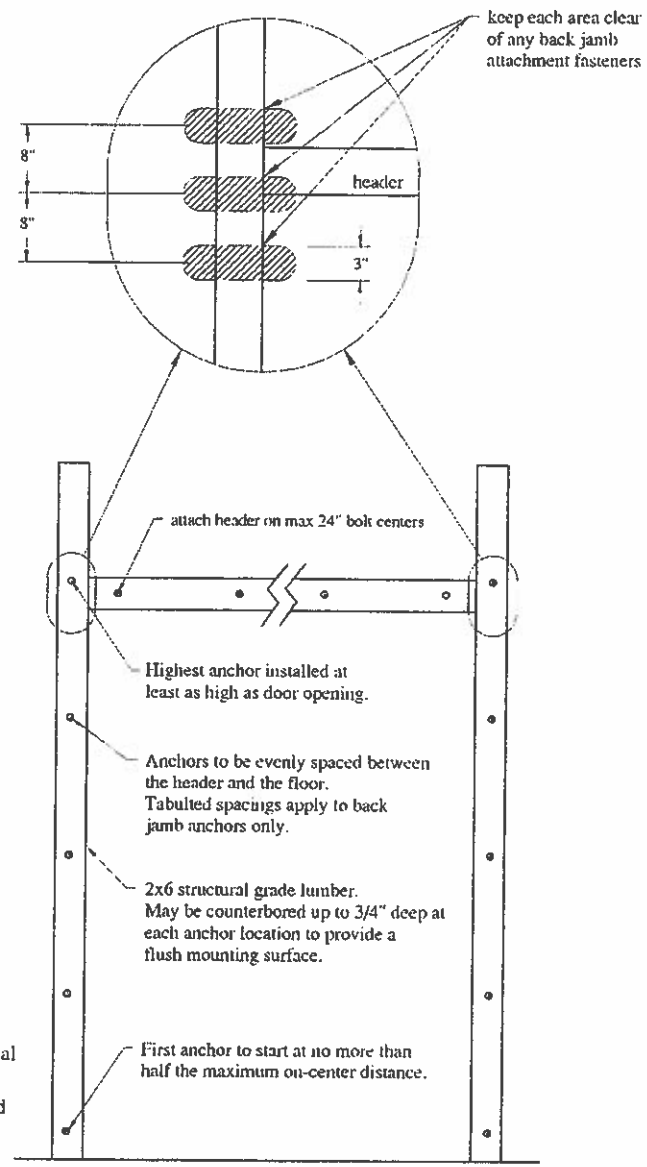
2000 psi minimum poured concrete wall.
Southern Yellow Pine specific gravity = 0.55; allowable load per anchor = 336 lbs.
Spruce Pine Fir specific gravity = 0.42; allowable load per anchor = 274 lbs.
Anchor: 3/8" dia x 3" long Simpson Strong-Tie Sleeve-All.
Washer: 7/8" O.D. / 7/16" I.D. min; must conform to ANSI B18.22.1 type A.
3" minimum anchor edge distance required.
1-1/2" minimum embedment required.
Maximum spacing shown in chart. Lesser spacing may be used to avoid interference with door component system.
Spring pad connection not included.
Maximum load per jamb = 0.5 x door width x max positive pressure x door height

Door Width	Maximum Positive Pressure	Maximum Fastener On-Center Spacing	
		Southern Yellow Pine*	Spruce Pine Fir*
9	31.4 psf	24	23
	36.0 psf	24	20
	38.7 psf	23	19
	44.3 psf	20	16
	50.7 psf	18	14
	62.7 psf	14	12
10	27.3 psf	24	24
	31.4 psf	24	21
	36.0 psf	22	18
	38.7 psf	21	17
	44.3 psf	18	15
	50.7 psf	16	13
	62.7 psf	13	10
12	22.7 psf	24	24
	26.1 psf	24	21
	30.0 psf	22	18
	32.2 psf	21	17
	36.9 psf	18	15
	42.2 psf	16	13
	52.2 psf	13	10

Door Width	Maximum Positive Pressure	Maximum Fastener On-Center Spacing	
		Southern Yellow Pine*	Spruce Pine Fir*
16	15.3 psf	24	24
	18.7 psf	24	22
	22.2 psf	23	19
	26.2 psf	19	16
	30.1 psf	17	14
	34.5 psf	15	12
	39.5 psf	13	10
	42.1 psf	12	10
	48.2 psf	10	9
	61.9 psf	8	7
18	15.3 psf	24	24
	18.7 psf	24	20
	22.2 psf	20	16
	26.2 psf	17	14
	30.1 psf	15	12
	34.5 psf	13	11
	42.1 psf	11	9
	48.2 psf	9	8
	61.9 psf	7	6



* 2000 psi minimum poured concrete wall. Wood back jamb material is the limiting factor in faster specification.

Alternative design may be approved by a registered professional engineer.
Supporting structural elements shall be designed by a registered professional engineer for wind loads in addition to other loads.
Calculation reference: DASMA TDS #161B, 2005 AF&PA NDS for Wood Construction and Simpson Strong-Tie data.

STATE OF TEXAS
JOHN E. SCATES
56308

John E Scates
7/27/10

John E. Scates, P.E.
3121 Fairgate Drive
Carrollton, Texas 75007
TXPE 56308, F-2203

Professional Engineer's seal provided only for verification of windload construction details

C.H.I. OVERHEAD DOORS

SCALE none
DATE 2-24-2010

Back Jamb Attachment Detail
Concrete Sleeve Anchor

C.H.I. Drawing: BJA-001-04