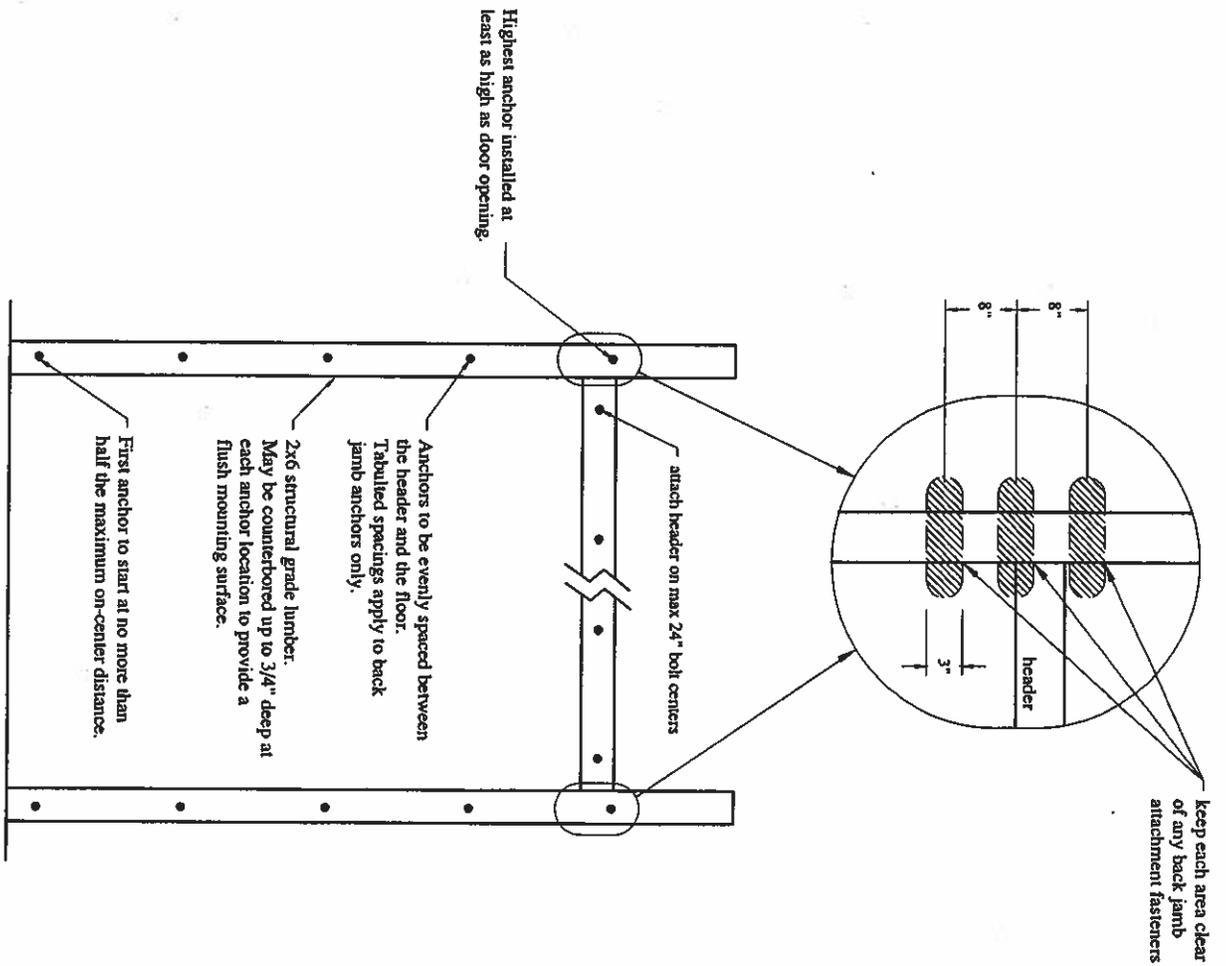


2000 psi minimum poured concrete wall.
 Southern Yellow Pine specific gravity = 0.55; allowable load per anchor = 336 lbs.
 Spruce Pine Fir specific gravity = 0.42; allowable load per anchor = 274 lbs.
 Washer: 3/8" dia x 3" long Simpson Strong-Tie Sleeve-All.
 Anchor: 7/8" O.D. / 1 1/16" I.D. min; must 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	Zone / Max Positive Pressure	Maximum Fastener On-Center Spacing	Southern Yellow Pine	Spruce Pine Fir
9	Zone 1 / 12.8	24	24	24
	Zone 2 / 15.9	24	24	24
	Zone 3 / 19.2	24	24	24
	Zone 4 / 22.9	24	24	24
	Zone 5 / 26.9	24	24	24
	Zone 6 / 31.2	24	24	23
	Zone 7 / 35.7	24	23	20
	Zone 8 / 38.7	23	18	18
	Zone 9 / 42.6	21	17	17
10	Zone 1 / 12.8	24	24	24
	Zone 2 / 15.9	24	24	24
	Zone 3 / 19.2	24	24	24
	Zone 4 / 22.9	24	24	24
	Zone 5 / 26.9	24	24	24
	Zone 6 / 31.2	24	24	21
	Zone 7 / 35.7	22	18	18
	Zone 8 / 38.7	20	16	16
	Zone 9 / 42.6	18	15	15
16	Zone 1 / 12.4	24	24	24
	Zone 2 / 15.3	24	24	24
	Zone 3 / 18.5	24	22	22
	Zone 4 / 22.0	22	18	18
	Zone 5 / 25.9	19	15	15
	Zone 6 / 30.0	16	13	13
	Zone 7 / 34.4	14	11	11
	Zone 8 / 37.1	13	11	11
	Zone 9 / 40.9	12	10	10
18	Zone 1 / 12.4	24	24	24
	Zone 2 / 15.3	24	23	23
	Zone 3 / 18.5	24	19	19
	Zone 4 / 22.0	20	16	16
	Zone 5 / 25.9	17	14	14
	Zone 6 / 30.0	14	12	12
	Zone 7 / 34.4	13	10	10
	Zone 8 / 37.1	12	9	9
	Zone 9 / 40.9	10	8	8

John E. Jacobs
 7/11/10

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.



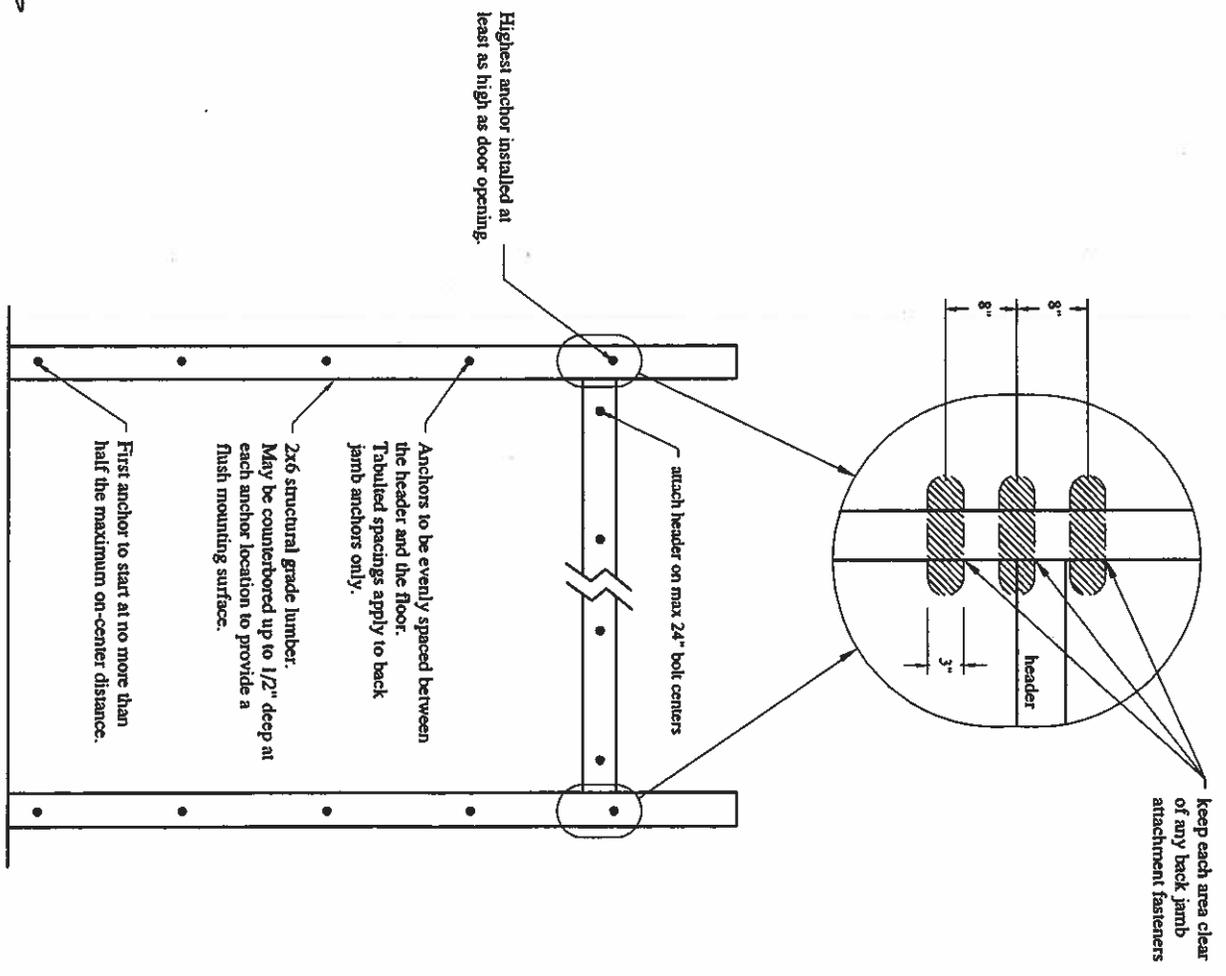
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Back Jamb Attachment Detail Concrete Sleeve Anchor		
C.H.I. Drawing: BJA-001-02		

2000 psi minimum poured concrete wall; allowable load per anchor = 280 lbs.
 Groun-filled (min 2000 psi concrete) C90 block; allowable load per anchor = 154 lbs.
 Southern Yellow Pine specific gravity = 0.55
 Spruce Pine specific gravity = 0.42
 Anchor: 1/4" dia x 3" long ITW Ramset / Redhead Tapcon.
 Washer: 1" O.D. / 5/32" I.D. min; must conform to ANSI B18.22.1 type B.
 2-1/2" minimum embedment 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	Zone / Max Positive Pressure	Maximum Fastener On-Center Spacing	
		C-90 Block	2000 PSI Concrete
9	Zone 1 / 12.8	24	24
	Zone 2 / 15.9	24	24
	Zone 3 / 19.2	21	24
	Zone 4 / 22.9	17	24
	Zone 5 / 26.9	15	24
	Zone 6 / 31.2	13	23
	Zone 7 / 35.7	11	20
	Zone 8 / 38.7	10	19
	Zone 9 / 42.6	9	17
10	Zone 1 / 12.8	24	24
	Zone 2 / 15.9	23	24
	Zone 3 / 19.2	19	24
	Zone 4 / 22.9	16	24
	Zone 5 / 26.9	13	24
	Zone 6 / 31.2	11	21
	Zone 7 / 35.7	10	18
	Zone 8 / 38.7	9	17
	Zone 9 / 42.6	8	15
16	Zone 1 / 12.4	18	24
	Zone 2 / 15.3	15	24
	Zone 3 / 18.5	12	22
	Zone 4 / 22.0	10	19
	Zone 5 / 25.9	8	16
	Zone 6 / 30.0	7	14
	Zone 7 / 34.4	6	12
	Zone 8 / 37.1	6	11
	Zone 9 / 40.9	5	10
18	Zone 1 / 12.4	16	24
	Zone 2 / 15.3	13	24
	Zone 3 / 18.5	11	20
	Zone 4 / 22.0	9	16
	Zone 5 / 25.9	7	14
	Zone 6 / 30.0	6	12
	Zone 7 / 34.4	5	10
	Zone 8 / 37.1	5	10
	Zone 9 / 40.9	5	9

John E. Sexton
 7/18/06

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 #161A, 2005 AF&PA NDS for Wood Construction and ITW Ramset / Redhead data.



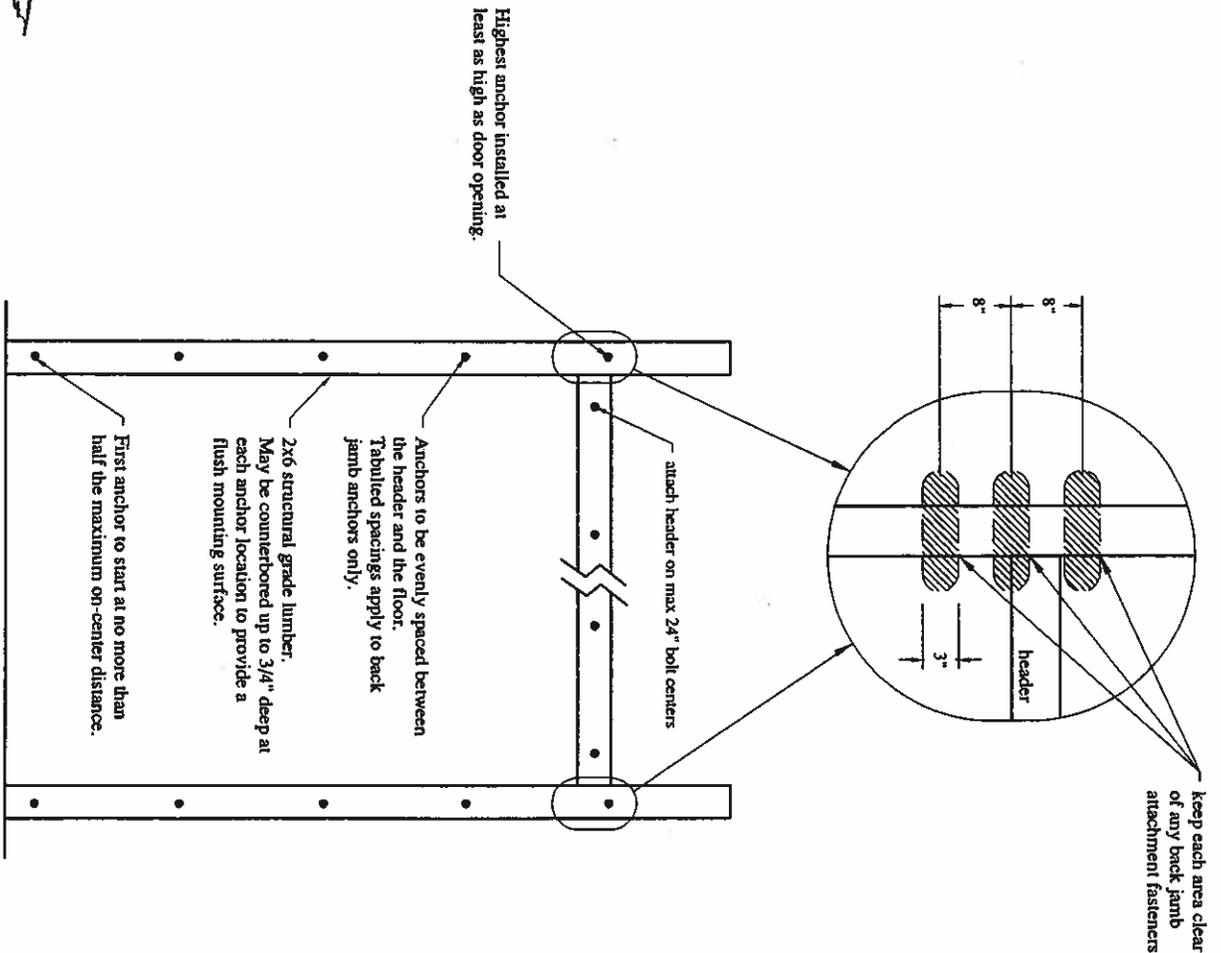
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	DATE	06-22-2006
Back Jamb Attachment Detail Self-Tapping Concrete Anchor		
C.H.I. Drawing: BJA-002-02		

2000 psi minimum poured concrete wall.
 Southern Yellow Pine specific gravity = 0.55; allowable load per anchor = 364 lbs.
 Spruce Pine Fir specific gravity = 0.42; allowable load per anchor = 274 lbs.
 Washer: 3/8" dia x 3-1/2" long Simpson Strong-Tie Wedge-All.
 Anchor: 7/8" O.D. / 7/16" I.D. min; must conform to ANSIB18.22.1 type A.
 3" minimum anchor edge distance required.
 1-3/4" 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	Zone / Max Positive Pressure	Maximum Fastener On-Center Spacing	
		Southern Yellow Pine	Spruce Pine Fir
9	Zone 1 / 12.8	24	24
	Zone 2 / 15.9	24	24
	Zone 3 / 19.2	24	24
	Zone 4 / 22.9	24	24
	Zone 5 / 26.9	24	24
	Zone 6 / 31.2	24	23
	Zone 7 / 35.7	24	20
	Zone 8 / 38.7	24	18
	Zone 9 / 42.6	22	17
10	Zone 1 / 12.8	24	24
	Zone 2 / 15.9	24	24
	Zone 3 / 19.2	24	24
	Zone 4 / 22.9	24	24
	Zone 5 / 26.9	24	24
	Zone 6 / 31.2	24	21
	Zone 7 / 35.7	24	18
	Zone 8 / 38.7	22	16
	Zone 9 / 42.6	20	15
16	Zone 1 / 12.4	24	24
	Zone 2 / 15.3	24	24
	Zone 3 / 18.5	24	22
	Zone 4 / 22.0	24	18
	Zone 5 / 25.9	21	15
	Zone 6 / 30.0	18	13
	Zone 7 / 34.4	15	11
	Zone 8 / 37.1	14	11
	Zone 9 / 40.9	13	10
18	Zone 1 / 12.4	24	24
	Zone 2 / 15.3	24	23
	Zone 3 / 18.5	24	19
	Zone 4 / 22.0	22	16
	Zone 5 / 25.9	18	14
16	Zone 6 / 30.0	16	12
	Zone 7 / 34.4	14	10
	Zone 8 / 37.1	13	9
Zone 9 / 40.9	11	8	

John E. Satter
 7/18/06

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 #161C, 2005 AF&PA NDS for Wood Construction and Simpson Strong-Tie data.



	SCALE	none
	DATE	06-22-2006

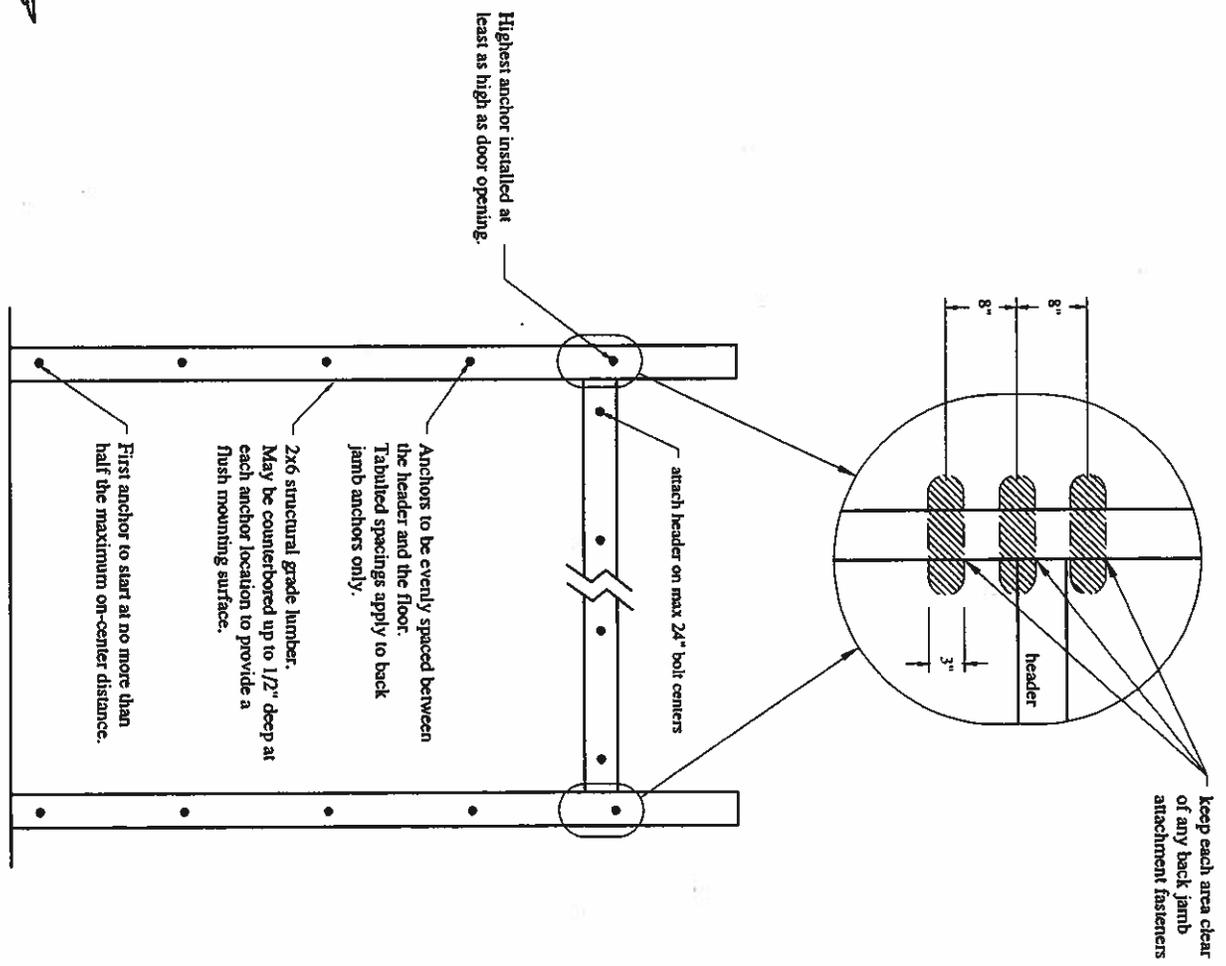
Back Jamb Attachment Detail
 Concrete Expansion Anchor
 C.H.I. Drawing: BJA-003-02

Southern Yellow Pine specific gravity = 0.55; allowable load per anchor = 577 lbs.
 Spruce Pine Fir specific gravity = 0.42; allowable load per anchor = 385 lbs.
 Lag screw: 3/8" dia x 3" long; must conform to ANSI/ASME B18.2.1
 Washer: 1-1/8" O.D. / 3/8" I.D. min; must conform to ANSI B18.22.1 type A.
 Pre-drill 1/4" dia pilot holes for lag screw insertion.
 1-1/2" minimum lag screw 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	Zone / Max Positive Pressure	Maximum Fastener On-Center Spacing	
		Southern Yellow Pine	Spruce Pine Fir
9	Zone 1 / 12.8	24	24
	Zone 2 / 15.9	24	24
	Zone 3 / 19.2	24	24
	Zone 4 / 22.9	24	24
	Zone 5 / 26.9	24	24
	Zone 6 / 31.2	24	24
	Zone 7 / 35.7	24	24
	Zone 8 / 38.7	24	24
	Zone 9 / 42.6	24	24
10	Zone 1 / 12.8	24	24
	Zone 2 / 15.9	24	24
	Zone 3 / 19.2	24	24
	Zone 4 / 22.9	24	24
	Zone 5 / 26.9	24	24
	Zone 6 / 31.2	24	24
	Zone 7 / 35.7	24	24
	Zone 8 / 38.7	24	23
	Zone 9 / 42.6	24	21
16	Zone 1 / 12.4	24	24
	Zone 2 / 15.3	24	24
	Zone 3 / 18.5	24	24
	Zone 4 / 22.0	24	24
	Zone 5 / 25.9	24	22
	Zone 6 / 30.0	24	19
	Zone 7 / 34.4	24	16
	Zone 8 / 37.1	23	15
	Zone 9 / 40.9	21	14
18	Zone 1 / 12.4	24	24
	Zone 2 / 15.3	24	24
	Zone 3 / 18.5	24	24
	Zone 4 / 22.0	24	23
	Zone 5 / 25.9	24	19
	Zone 6 / 30.0	24	17
	Zone 7 / 34.4	22	14
	Zone 8 / 37.1	20	13
	Zone 9 / 40.9	18	12

John E. Roberts
 7/18/06

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 #161E and 2005 AF&PA NDS for Wood Construction.



GH	SCALE	none
	DATE	06-22-2006
Back Jamb Attachment Detail		
Lag Screw		
C.H.I. Drawing: BJA-004-02		