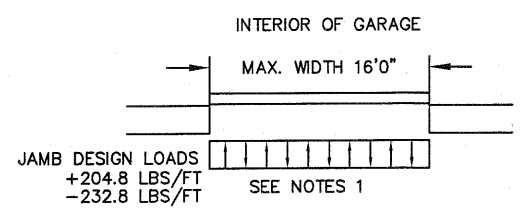
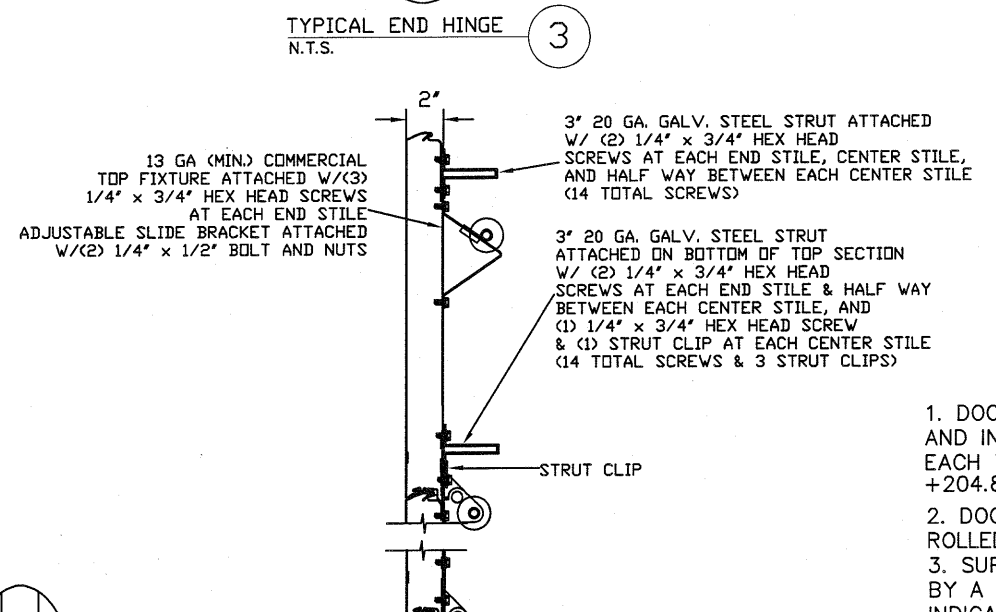
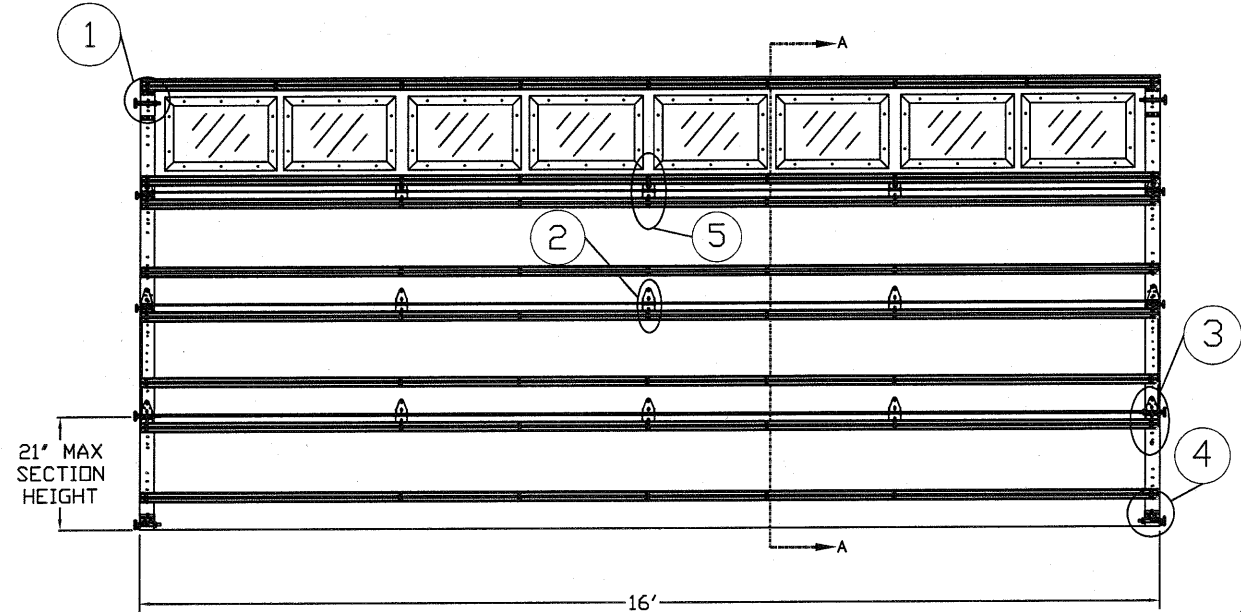
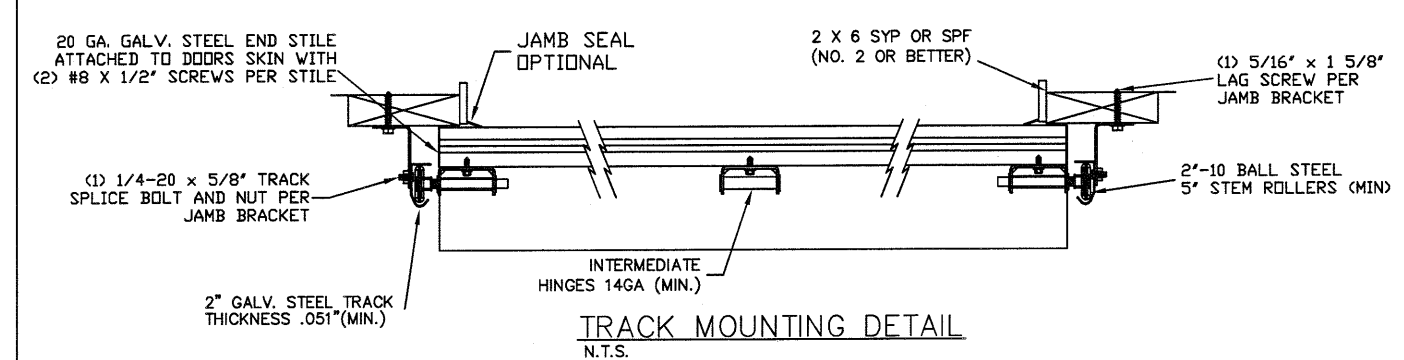
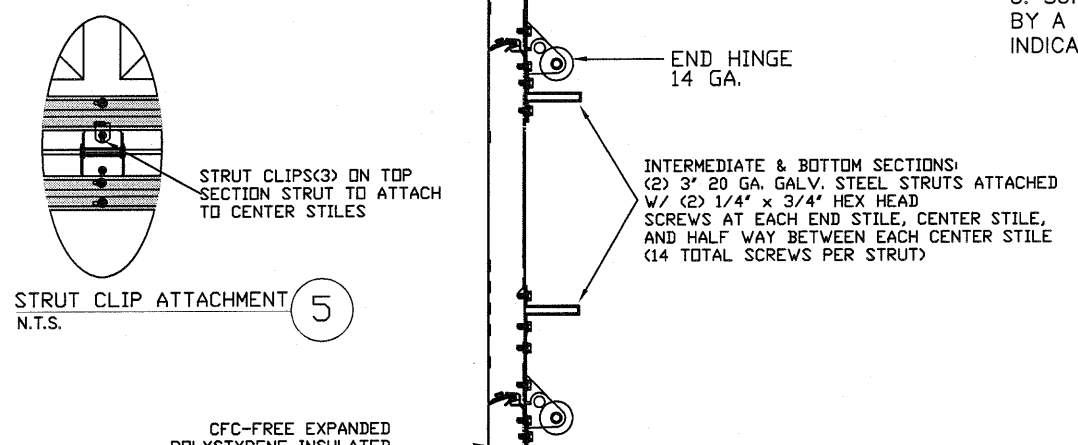
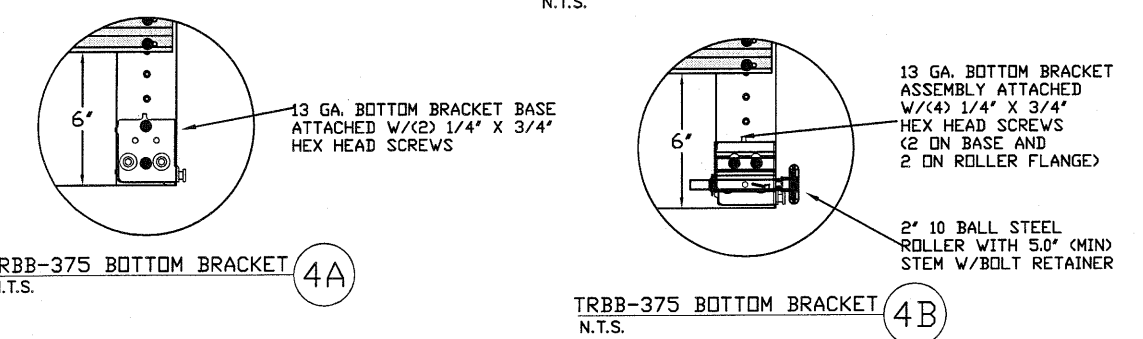


THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330 AND DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	130	118	112	107	103
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'



- SPECIFICATIONS AND NOTES**
- DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +204.8 LBS/FT & -232.8 LBS/FT
  - DOOR SECTIONS SHALL BE 27 GA. MIN. (.0151") ROLLED FORMED LIGHT COMMERCIAL QUALITY
  - SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 16' WIDTH 14' HEIGHT

DESIGN LOADS +25.6 PSF -29.1 PSF

TEST LOADS +38.4 PSF -43.65 PSF

Thomas L. Shelmerdine, PE (TX PE #85829) Structural Solutions, PA (TX Firm #F-004063)

STATE OF TEXAS  
THOMAS L. SHELMERDINE  
85829  
LICENSED PROFESSIONAL ENGINEER  
TX

dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410

**Amarr**

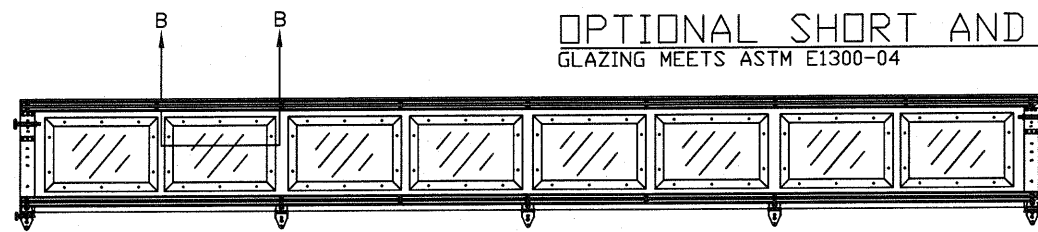
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM

MODEL #1600 LINCOLN 3000  
MODEL #1650 HILLCREST 3000

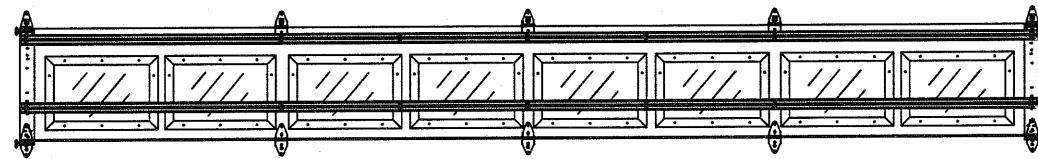
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B	CHECKED BY		DATE	00/00/00	IRC-1616-130-15

SHEET 1 OF 3

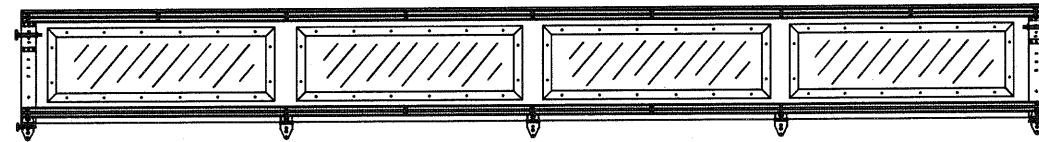
OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS  
GLAZING MEETS ASTM E1300-04



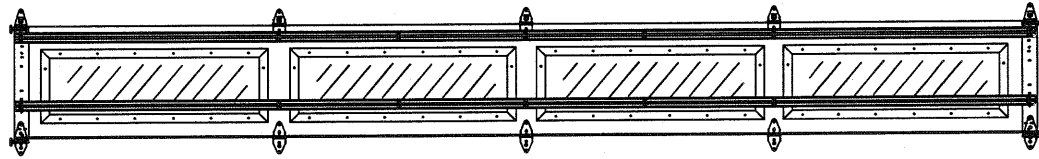
TOP SECTION



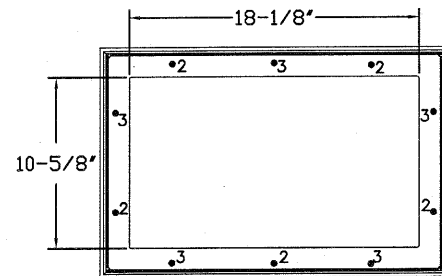
INTERMEDIATE SECTION



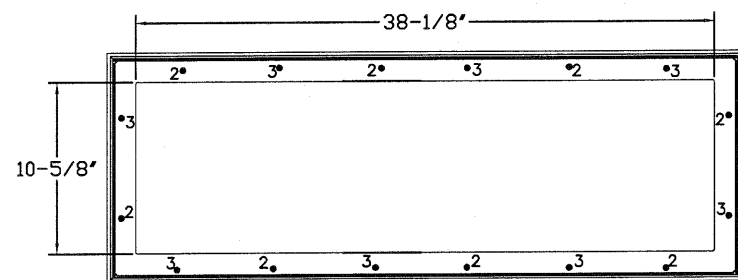
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INTERMEDIATE SECTION



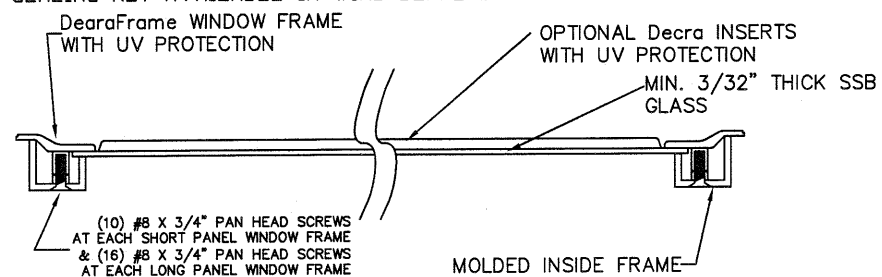
SHORT PANEL GLAZING FASTENER DETAIL  
N.T.S.



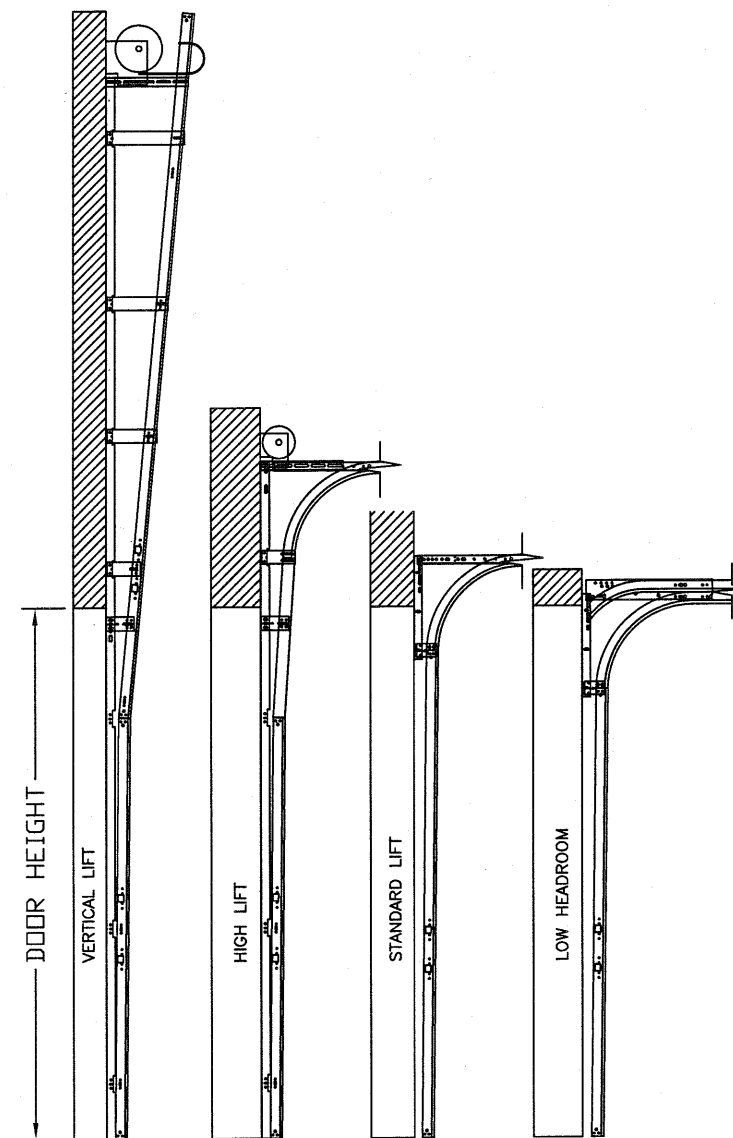
LONG PANEL GLAZING FASTENER DETAIL  
N.T.S.

GLAZING OPTION CROSS SECTION

GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION



SECTION B-B



AVAILABLE TRACK CONFIGURATIONS  
N.T.S.

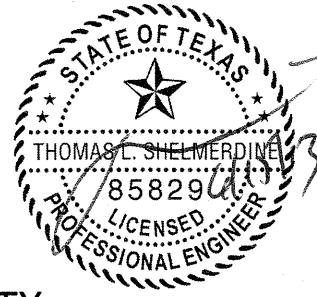

REV	DESCRIPTION OF REVISIONS	DATE	BY
	MAX SIZE 16' WIDTH 14' HEIGHT		
	DESIGN LOADS +25.6 PSF -29.1 PSF		
	TEST LOADS +38.4 PSF -43.65 PSF		
	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; margin-right: 10px;">                     Thomas L. Shelmerdine, PE (TX PE #85829)                      Structural Solutions, PA (TX Firm #F-004063)                 </div> <div style="text-align: center;">  <p>TX</p> </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; margin-left: 10px;">                     dba Structural Solutions of North Carolina, Inc.                      5921-G.W. Friendly Ave., Greensboro, NC 27410                 </div> </div>		
	 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM		
	<b>MODEL #1600 LINCOLN 3000</b> <b>MODEL #1650 HILLCREST 3000</b>		
SIZE	DRAWN BY RLR	DATE 12/15/11	DRAWING NUMBER
B	CHECKED BY	DATE 00/00/00	IRC-1616-130-15
			SHEET 2 OF 3

TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT								SPLICE
	A	B	C	D	E	F	G	H	
6' 6"	10"	21"	39"	57"					70"
7'	10"	21"	42"	63"					76"
7' 6"	10"	18"	36"	54"	72"				82"
8'	10"	21"	39"	57"	75"				88"
8' 6"	10"	21"	42"	63"	81"				94"
9'	10"	18"	36"	54"	72"	90"			100"
9' 6"	10"	21"	39"	57"	75"	93"			106"
10'	10"	21"	42"	63"	81"	99"			112"
10' 6"	10"	21"	42"	63"	84"	105"			118"
11'	10"	21"	39"	57"	75"	93"	111"		124"
11' 6"	10"	21"	42"	63"	81"	99"	117"		130"
12'	10"	21"	42"	63"	84"	105"	123"		136"
12' 6"	10"	21"	39"	57"	75"	93"	111"	129"	142"
13'	10"	21"	42"	63"	81"	99"	117"	135"	148"
13' 6"	10"	21"	42"	63"	84"	105"	123"	141"	154"
14'	10"	21"	42"	63"	84"	105"	126"	147"	160"

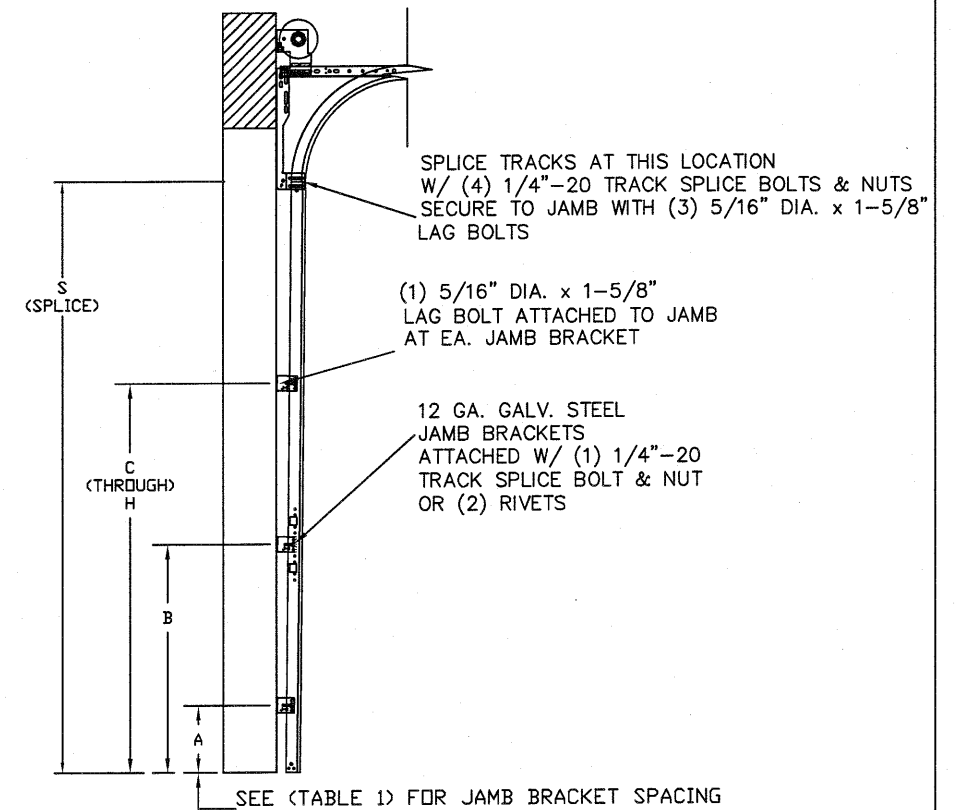
ALL TRACK ATTACHMENT SPACING +/- 2" WITH SYP OR SPF NO. 2 OR BETTER ONLY

TABLE 2

DOOR HEIGHT	SECTION HEIGHTS							
	Btm	#2	#3	#4	#5	#6	#7	#8
14' 0"	21"	21"	21"	21"	21"	21"	21"	21"
13' 6"	21"	21"	21"	21"	21"	18"	18"	21"
13' 0"	21"	21"	21"	18"	18"	18"	18"	21"
12' 6"	21"	18"	18"	18"	18"	18"	18"	21"
12' 0"	21"	21"	21"	21"	21"	18"	21"	
11' 6"	21"	21"	21"	18"	18"	18"	21"	
11' 0"	21"	18"	18"	18"	18"	18"	21"	
10' 6"	21"	21"	21"	21"	21"	21"		
10' 0"	21"	21"	21"	18"	18"	21"		
9' 6"	21"	18"	18"	18"	18"	21"		
9' 0"	18"	18"	18"	18"	18"	18"		
8' 6"	21"	21"	21"	18"	21"			
8' 0"	21"	18"	18"	18"	21"			
7' 6"	18"	18"	18"	18"	18"			
7' 0"	21"	21"	21"	21"				
6' 6"	21"	18"	18"	21"				

TABLE 3

Section	Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
	1st (in)	2st (in)	3rd (in)	4th (in)	Positive (PSF)	Negative (PSF)
10' 0	48.41	71.59			34.2	38.8
10' 2	49.32	72.68			33.6	38.2
10' 4	50.32	73.68			33.2	37.7
10' 6	50.84	75.17			32.5	37.0
10' 8	51.84	76.17			32.1	36.5
10' 10	52.50	77.50			31.6	35.9
11' 0	53.50	78.50			31.2	35.4
11' 2	54.20	79.80			30.6	34.8
11' 4	55.20	80.80			30.3	34.4
11' 6	56.20	81.80			29.9	34.0
11' 8	57.20	82.80			29.5	33.6
11' 10	47.81	94.19			26.0	29.5
12' 0	48.81	95.19			25.7	29.2
12' 2	49.64	96.36			25.4	28.8
12' 4	50.64	97.36			25.1	28.5
12' 6	50.67	99.33			24.6	28.0
12' 8	51.67	100.33			24.4	27.7
12' 10	52.25	101.75			24.0	27.3
13' 0	53.00	103.00			23.7	27.0
13' 2	54.00	104.00			23.5	26.7
13' 4	54.40	105.60			23.2	26.3
13' 6	55.40	106.60			22.9	26.1
13' 8	56.40	107.60			22.7	25.8
13' 10	57.16	82.94	108.71		29.5	33.5
14' 0	57.76	83.94	110.11		29.1	33.1
14' 2	58.85	84.94	111.41		28.8	32.7
14' 4	59.16	85.94	112.71		28.4	32.3
14' 6	59.86	86.94	114.01		28.1	31.9
14' 8	60.56	87.94	115.31		27.8	31.6
14' 10	61.26	88.94	116.61		27.5	31.2
15' 0	61.94	89.94	117.94		27.2	30.9
15' 2	62.66	90.94	119.21		26.9	30.5
15' 4	53.60	79.20	104.80		26.6	30.2
15' 6	46.62	93.00	139.38		26.3	29.9
15' 8	47.62	94.00	140.38		26.0	29.6
15' 10	48.62	95.00	141.38		25.7	29.3
16' 0	49.62	96.00	142.38		25.6	29.1



TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS  
N.T.S.

WOOD JAMB ATTACHMENT TO STRUCTURE

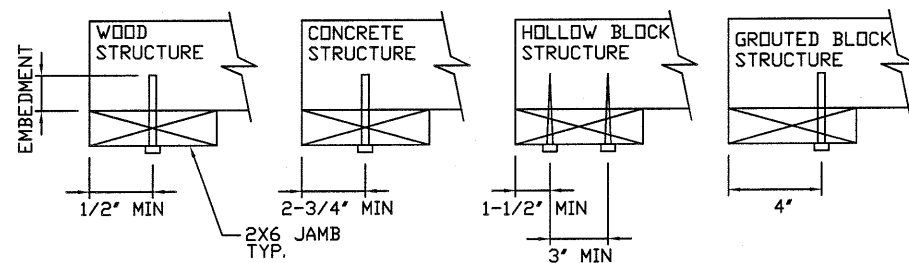
**2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE**  
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

**2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE**  
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)  
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 20" O.C. (1 1/4" EMBEDMENT)  
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)

**2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK**  
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C. (1 1/2" EMBEDMENT)  
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C. (1 1/4" EMBEDMENT)

**2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)**  
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT) (OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

\*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.  
\*PREPARATION OF WOOD JAMBS BY OTHERS



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE  
16' WIDTH  
14' HEIGHT

DESIGN LOADS  
+25.6 PSF  
-29.1 PSF

TEST LOADS  
+38.4 PSF  
-43.65 PSF

Thomas L. Shelmerdine PE (TX PE #85829)  
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STATE OF TEXAS  
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LICENSED PROFESSIONAL ENGINEER  
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MODEL #1600 LINCOLN 3000  
MODEL #1650 HILLCREST 3000

SIZE	DRAWN BY	RLR	DATE	12/15/11	DRAWING NUMBER
B	CHECKED BY		DATE	00/00/00	IRC-1616-130-15

SHEET 3 OF 3