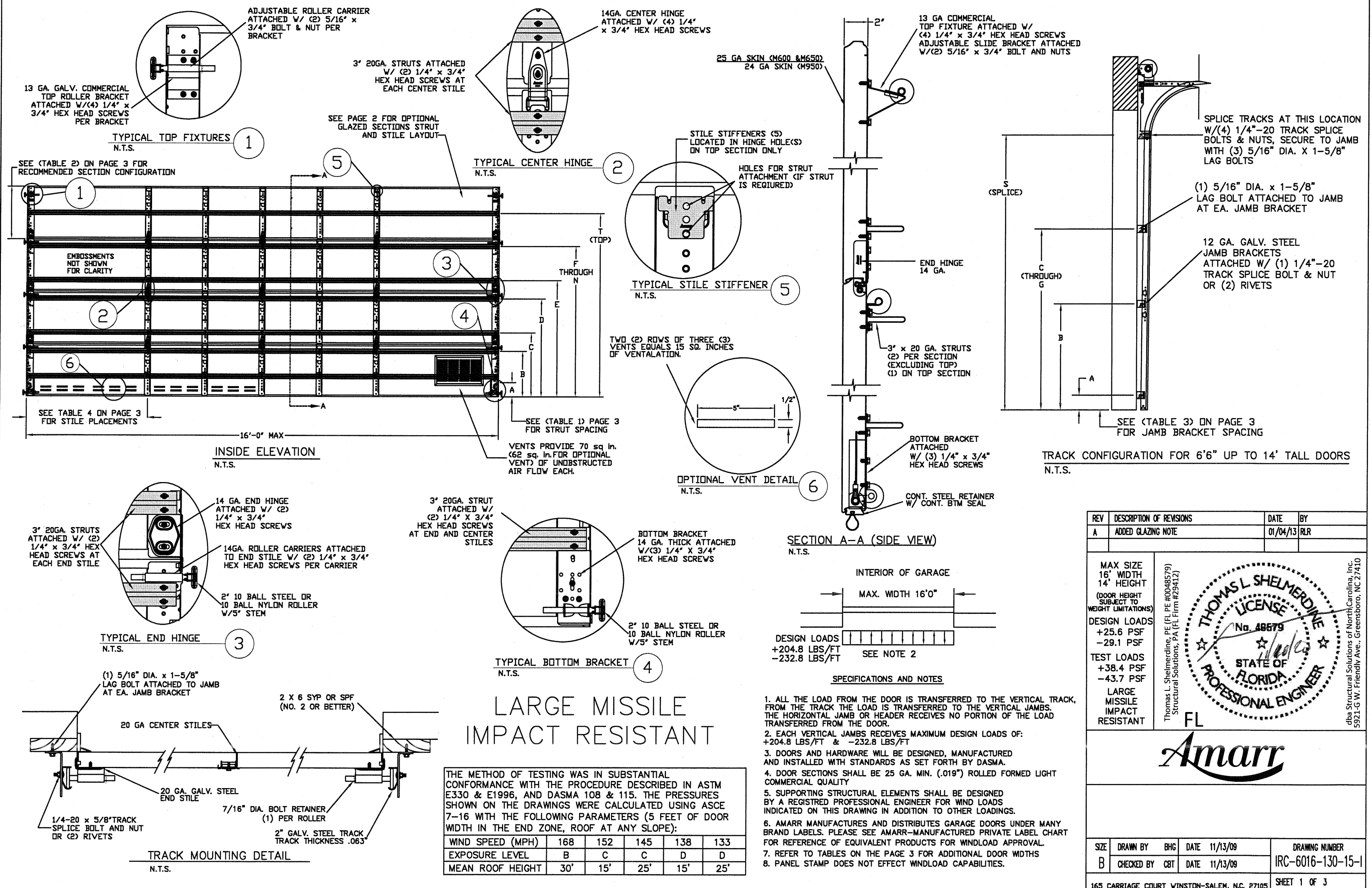
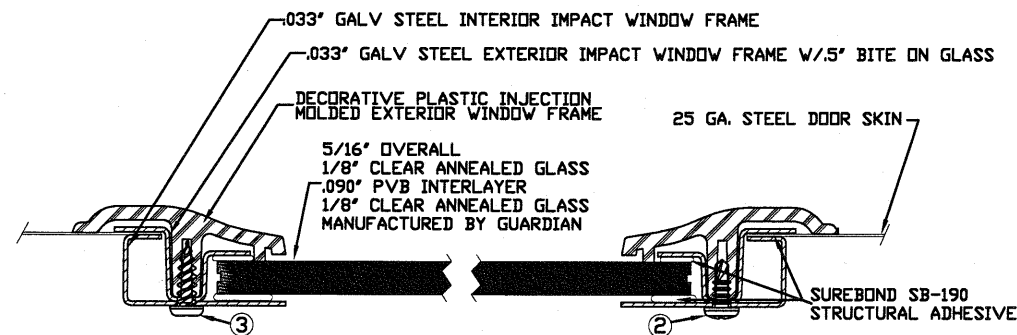
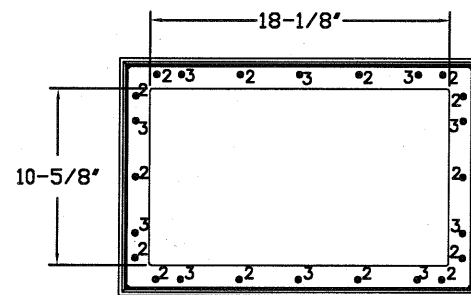




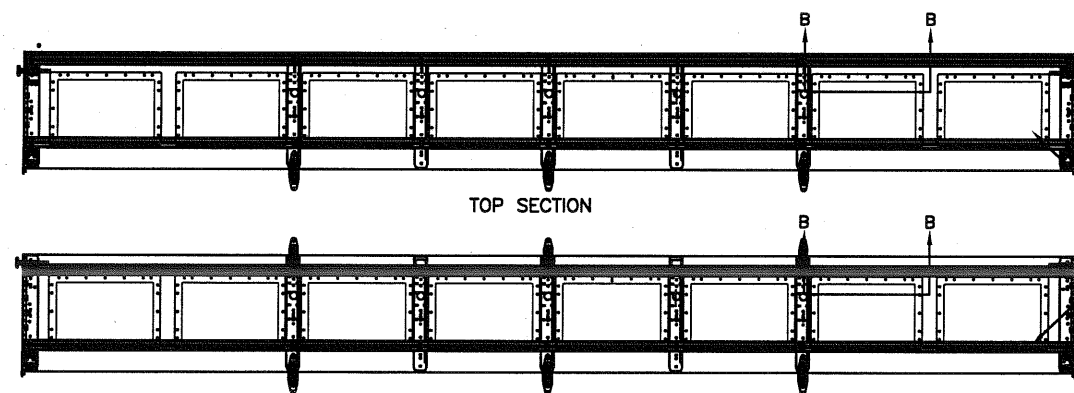


2. 3/16" X 1/2" SCREW - USED TO FASTEN THE STEEL EXTERIOR IMPACT WINDOW FRAME TO THE STEEL INTERIOR IMPACT WINDOW FRAME.
3. 11/64" X 1/2" SCREW - USED TO FASTEN DECORATIVE PLASTIC MOLDED WINDOW FRAME TO THE ASSEMBLY

SECTION B-B IMPACT WINDOW DETAIL
N.T.S.



IMPACT GLAZING FASTENER DETAIL
N.T.S.



3" 20GA. STRUT LOCATED AT THE TOP AND BOTTOM OF GLAZED SECTION ATTACHED W/(2) 1/4" X 3/4" HEX HEAD SCREWS AT END AND CENTER STILES

OPTIONAL SHORT PANEL GLAZED SECTION STRUT AND STILE LAYOUT

WOOD JAMB ATTACHMENT TO STRUCTURE

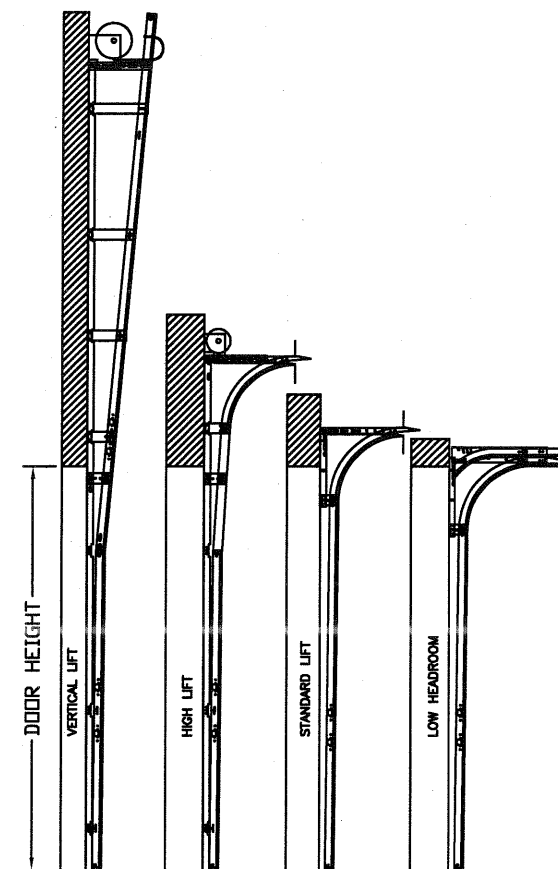
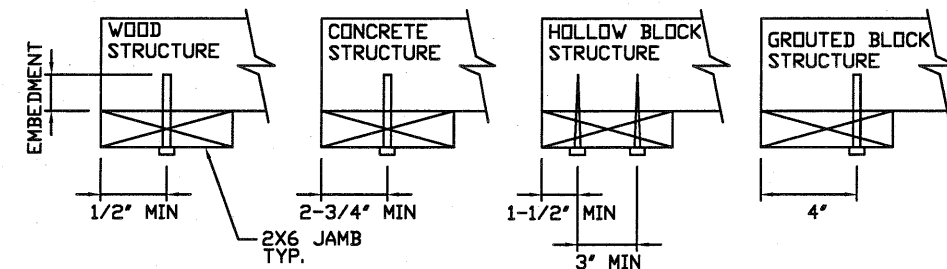
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDED GLAZING NOTE	01/04/13	RLR

MAX SIZE 16' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS) DESIGN LOADS +25.6 PSF -29.1 PSF TEST LOADS +38.4 PSF -43.7 PSF LARGE MISSILE IMPACT RESISTANT	Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #259412) FL	THOMAS L. SHELMERDINE LICENSE No. 48579 STATE OF FLORIDA PROFESSIONAL ENGINEER dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410
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MODEL #650 AMARR OAK SUMMIT SERIES 1000 & 2000 MODEL #600 AMARR STRATFORD SERIES 1000 & 2000 MODEL #950 AMARR HERITAGE SERIES 1000 & 2000			
SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	BHG	11/13/09	IRC-6016-130-15-1
	CHECKED BY	DATE	
	CBT	11/13/09	
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			

TABLE 1

DOOR HEIGHT	STRUT SPACING (BASED ON RECOMMENDED SECTION CONFIGURATION)														TOP
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
6' 6"	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"									67 1/2"
7' 0"	5 1/2"	18 1/4"	25 1/2"	33 1/4"	46 1/2"	60 1/4"									73 1/2"
7' 6"	5 1/2"	15 1/4"	22 1/2"	33 1/4"	40 1/2"	51 1/4"	58 1/2"	69 1/4"							81"
8' 0"	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"	61 1/2"	72 1/4"							85 1/2"
8' 6"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	78 1/4"							91 1/2"
9' 0"	5 1/2"	15 1/4"	22 1/2"	33 1/4"	40 1/2"	51 1/4"	58 1/2"	69 1/4"	76 1/2"	87 1/4"					99"
9' 6"	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"	61 1/2"	72 1/4"	79 1/2"	90 1/4"					103 1/2"
10' 0"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	78 1/4"	85 1/2"	96 1/4"					109 1/2"
10' 6"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	81 1/4"	88 1/2"	102 1/4"					115 1/2"
11' 0"	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"	61 1/2"	72 1/4"	79 1/2"	90 1/4"	97 1/2"	108 1/4"			121 1/2"
11' 6"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	78 1/4"	85 1/2"	96 1/4"	103 1/2"	114 1/4"			127 1/2"
12' 0"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	81 1/4"	88 1/2"	102 1/4"	109 1/2"	120 1/4"			133 1/2"
12' 6"	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"	61 1/2"	72 1/4"	79 1/2"	90 1/4"	97 1/2"	108 1/4"	115 1/2"	126 1/4"	139 1/2"
13' 0"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	78 1/4"	85 1/2"	96 1/4"	103 1/2"	114 1/4"	121 1/2"	132 1/4"	145 1/2"
13' 6"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	81 1/4"	88 1/2"	102 1/4"	109 1/2"	120 1/4"	127 1/2"	138 1/4"	151 1/2"
14' 0"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	81 1/4"	88 1/2"	102 1/4"	109 1/2"	123 1/4"	130 1/2"	144 1/4"	157 1/2"

■ ADDITIONAL STRUTS MAY BE ADDED TO DOOR WHEN GLAZED FOR COUNTERBALANCE PURPOSES

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"	18"	21"
11' 6"	21"	21"	21"	18"	18"	18"	18"	21"
11' 0"	21"	18"	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"	18"	21"		
7' 6"	18"	18"	18"	18"	18"			
7' 0"	21"	21"	21"	21"				
6' 6"	21"	18"	18"	21"				

TABLE 3

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 +/- 1.5" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY

TABLE 4

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)				
		1st (in)	2st (in)	3rd (in)	4th (in)	5th (in)
10' 0"	Short	48.41	71.59			
10' 0"	Long	30.00	60.00	90.00		
10' 0"	Oak Summit	30.63	60.00	89.38		
12' 0"	Short	48.81	72.00	95.19		
12' 0"	Long	49.63	72.00	94.38		
12' 0"	Oak Summit	48.31	72.00	95.69		
12' 2"	Short	49.64	73.00	96.36		
12' 2"	Long	50.08	73.00	95.92		
12' 2"	Oak Summit	49.08	73.00	96.94		
12' 4"	Short	50.64	74.00	97.36		
12' 4"	Long	51.08	74.00	96.92		
12' 4"	Oak Summit	49.81	74.00	98.19		
12' 6"	Short	50.67	75.00	99.33		
12' 6"	Long	51.17	75.00	98.83		
12' 6"	Oak Summit	50.56	75.00	99.44		
12' 8"	Short	51.67	76.00	100.33		
12' 8"	Long	52.10	76.00	99.90		
12' 8"	Oak Summit	51.31	76.00	100.69		
12' 10"	Short	52.25	77.00	101.75		
12' 10"	Long	53.10	77.00	100.90		
12' 10"	Oak Summit	52.06	77.00	101.94		
13' 0"	Short	53.00	78.00	103.00		
13' 0"	Long	54.10	78.00	101.90		
13' 0"	Oak Summit	52.81	78.00	103.19		
13' 2"	Short	54.00	79.00	104.00		
13' 2"	Long	55.10	79.00	102.90		
13' 2"	Oak Summit	53.56	79.00	104.44		
13' 4"	Short	54.40	80.00	105.60		
13' 4"	Long	54.90	80.00	105.10		
13' 4"	Oak Summit	54.31	80.00	105.69		
13' 6"	Short	55.40	81.00	106.60		
13' 6"	Long	55.90	81.00	106.10		
13' 6"	Oak Summit	55.06	81.00	106.94		
13' 8"	Short	56.40	82.00	107.60		
13' 8"	Long	56.63	82.00	107.38		
13' 8"	Oak Summit	55.81	82.00	108.19		
13' 10"	Short	57.16	83.00	108.71		
13' 10"	Long	57.17	83.00	108.83		
13' 10"	Oak Summit	56.56	83.00	109.44		
14' 0"	Short	57.76	84.00	110.11		
14' 0"	Long	58.63	84.00	109.38		
14' 0"	Oak Summit	57.31	84.00	110.69		
14' 2"	Short	58.85	85.00	111.41		
14' 2"	Long	59.17	85.00	110.83		
14' 2"	Oak Summit	58.06	85.00	111.94		
14' 4"	Short	59.16	86.00	112.71		
14' 4"	Long	60.17	86.00	111.83		
14' 4"	Oak Summit	58.81	86.00	113.19		
14' 6"	Short	59.86	87.00	114.01		
14' 6"	Long	61.17	87.00	112.83		
14' 6"	Oak Summit	59.56	87.00	114.44		
14' 8"	Short	60.56	88.00	115.31		
14' 8"	Long	64.81	88.00	109.59	131.19	
14' 8"	Oak Summit	60.31	88.00	115.69		
14' 10"	Short	61.26	89.00	116.61		
14' 10"	Long	45.60	87.30	89.00	110.70	132.40
14' 10"	Oak Summit	61.06	89.00	116.94		
15' 0"	Short	61.94	87.57	90.00	103.97	117.94
15' 0"	Long	46.60	86.30	90.00	111.70	133.40
15' 0"	Oak Summit	33.63	61.81	90.00	118.19	146.38
15' 2"	Short	62.66	87.63	91.00	105.11	119.21
15' 2"	Long	47.60	86.30	91.00	112.70	134.40
15' 2"	Oak Summit	34.13	62.56	91.00	119.44	147.88
15' 4"	Short	53.60	79.20	104.80	130.40	
15' 4"	Long	47.25	86.63	92.00	114.38	136.75
15' 4"	Oak Summit	34.63	63.31	92.00	120.69	149.38
15' 6"	Short	46.62	86.81	93.00	116.19	139.38
15' 6"	Long	47.60	87.30	93.00	115.70	138.40
15' 6"	Oak Summit	47.42	87.21	93.00	115.79	138.58
15' 8"	Short	47.62	87.81	94.00	117.19	140.38
15' 8"	Long	48.60	87.30	94.00	116.70	139.40
15' 8"	Oak Summit	48.02	87.01	94.00	116.99	139.98
15' 10"	Short	48.62	87.81	95.00	118.19	141.38
15' 10"	Long	49.17	87.08	95.00	117.92	140.83
15' 10"	Oak Summit	48.62	87.18	95.00	118.19	141.38
16' 0"	Short	49.62	87.81	96.00	119.19	142.38
16' 0"	Long	50.60	87.30	96.00	118.70	141.40
16' 0"	Oak Summit	48.42	87.21	96.00	119.79	143.58

* Stiles do not need to be hinged

TABLE 5

Section	Panel Type	Loads Allowed	
		Positive (PSF)	Negative (PSF)
10' 0	Short	34.3	39.0
10' 0	Long	40.9	46.5
10' 0	Oak Summit	40.9	46.5
12' 0	Short	34.1	38.8
12' 0	Long	34.1	38.8
12' 0	Oak Summit	34.1	38.8
12' 2	Short	33.6	38.2
12' 2	Long	33.6	38.2
12' 2	Oak Summit	33.6	38.2
12' 4	Short	33.2	37.7
12' 4	Long	33.2	37.7
12' 4	Oak Summit	33.2	37.7
12' 6	Short	32.7	37.2
12' 6	Long	32.7	37.2
12' 6	Oak Summit	32.7	37.2
12' 8	Short	32.3	36.7
12' 8	Long	32.3	36.7
12' 8	Oak Summit	32.3	36.7
12' 10	Short	31.9	36.2
12' 10	Long	31.9	36.2
12' 10	Oak Summit	31.9	36.2
13' 0	Short	31.5	35.8
13' 0	Long	31.5	35.8
13' 0	Oak Summit	31.5	35.8
13' 2	Short	31.1	35.3
13' 2	Long	31.1	35.3
13' 2	Oak Summit	31.1	35.3
13' 4	Short	30.7	34.9
13' 4	Long	30.7	34.9
13' 4	Oak Summit	30.7	34.9
13' 6	Short	30.3	34.4
13' 6	Long	30.3	34.4
13' 6	Oak Summit	30.3	34.4
13' 8	Short	29.9	34.0
13' 8	Long	29.9	34.0
13' 8	Oak Summit	29.9	34.0
13' 10	Short	29.6	33.6
13' 10	Long	29.6	33.6
13' 10	Oak Summit	29.6	33.6
14' 0	Short	29.2	33.2
14' 0	Long	29.2	33.2
14' 0	Oak Summit	29.2	33.2
14' 2	Short	28.9	32.8
14' 2	Long	28.9	32.8
14' 2	Oak Summit	28.9	32.8
14' 4	Short	28.5	32.4
14' 4	Long	28.5	32.4
14' 4	Oak Summit	28.5	32.4
14' 6	Short	28.2	32.1
14' 6	Long	28.2	32.1
14' 6	Oak Summit	28.2	32.1
14' 8	Short	27.9	31.7
14' 8	Long	27.9	31.7
14' 8	Oak Summit	27.9	31.7
14' 10	Short	27.6	31.3
14' 10	Long	27.6	31.3
14' 10	Oak Summit	27.6	31.3
15' 0	Short	27.3	31.0
15' 0	Long	27.3	31.0
15' 0	Oak Summit	27.3	31.0
15' 2	Short	27.0	30.6
15' 2	Long	27.0	30.6
15' 2	Oak Summit	27.0	30.6
15' 4	Short	26.7	30.3
15' 4	Long	26.7	30.3
15' 4	Oak Summit	26.7	30.3
15' 6	Short	26.4	30.0
15' 6	Long	26.4	30.0
15' 6	Oak Summit	26.4	30.0
15' 8	Short	26.1	29.7
15' 8	Long	26.1	29.7
15' 8	Oak Summit	26.1	29.7
15' 10	Short	25.8	29.4
15' 10	Long	25.8	29.4
15' 10	Oak Summit	25.8	29.4
16' 0	Short	25.6	29.1
16' 0	Long	25.6	29.1
16' 0	Oak Summit	25.6	29.1