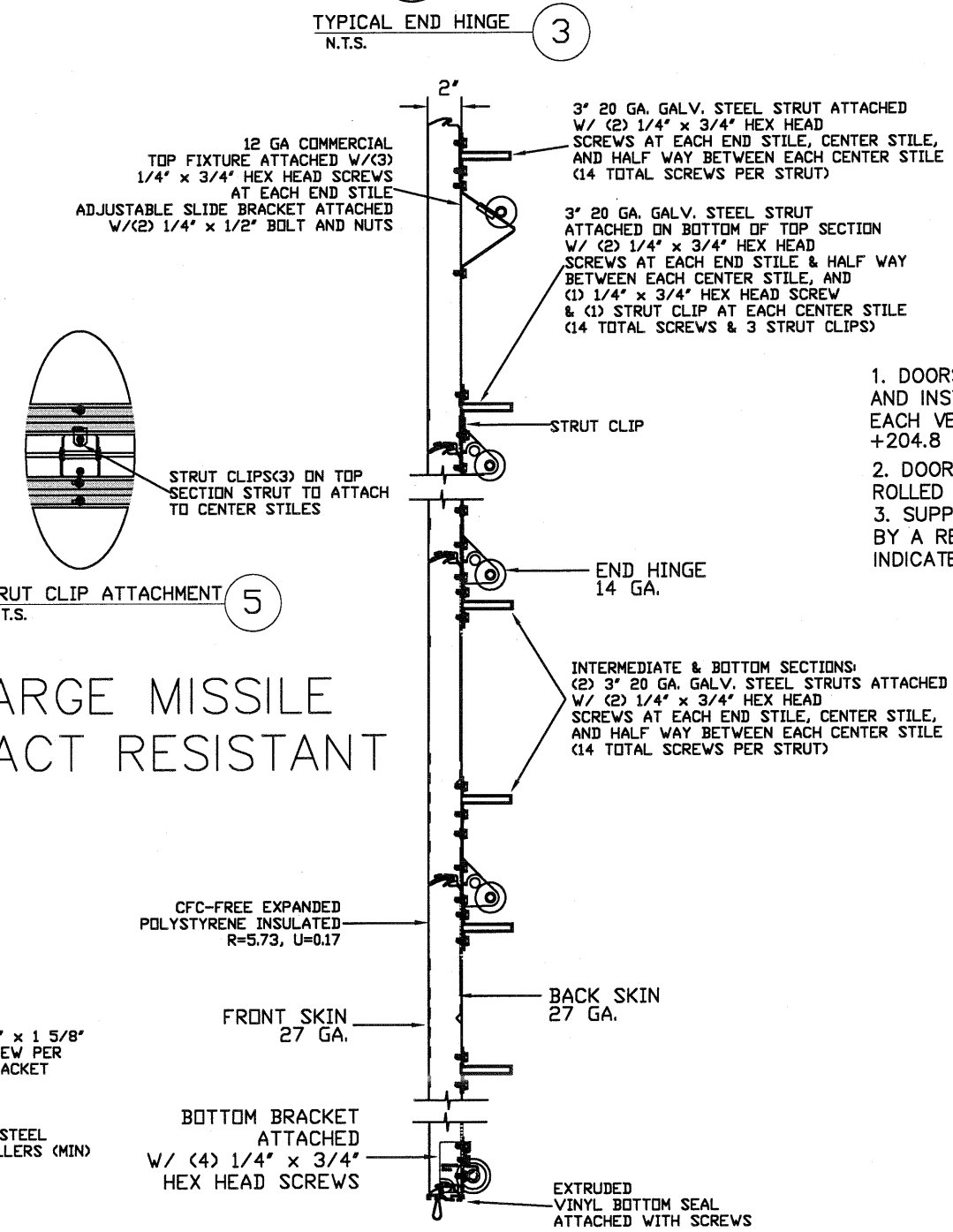
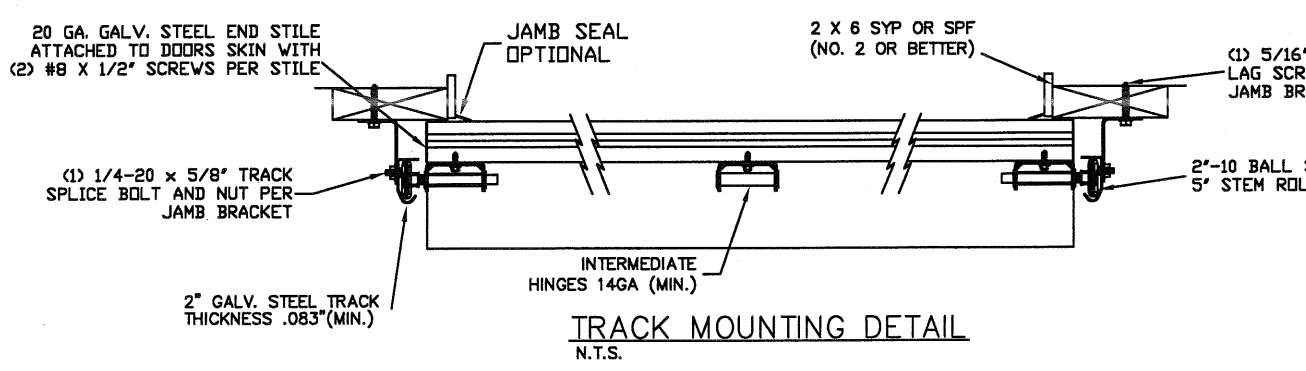
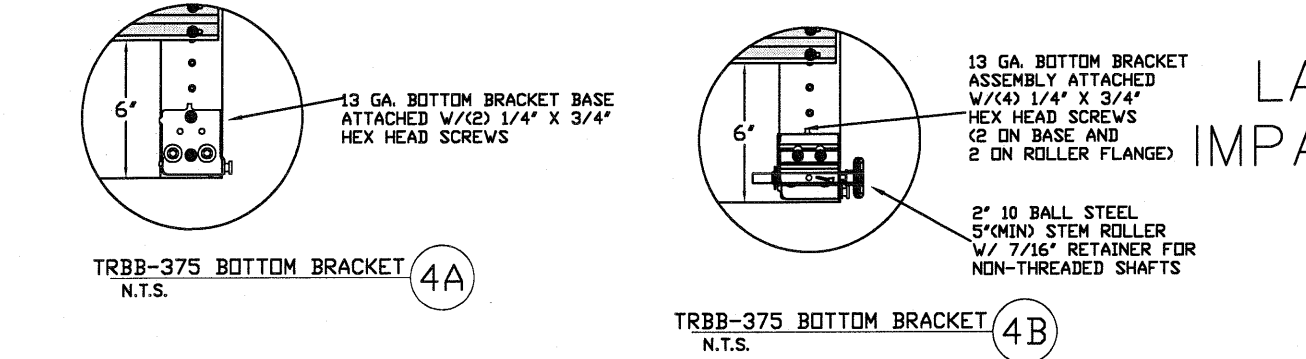
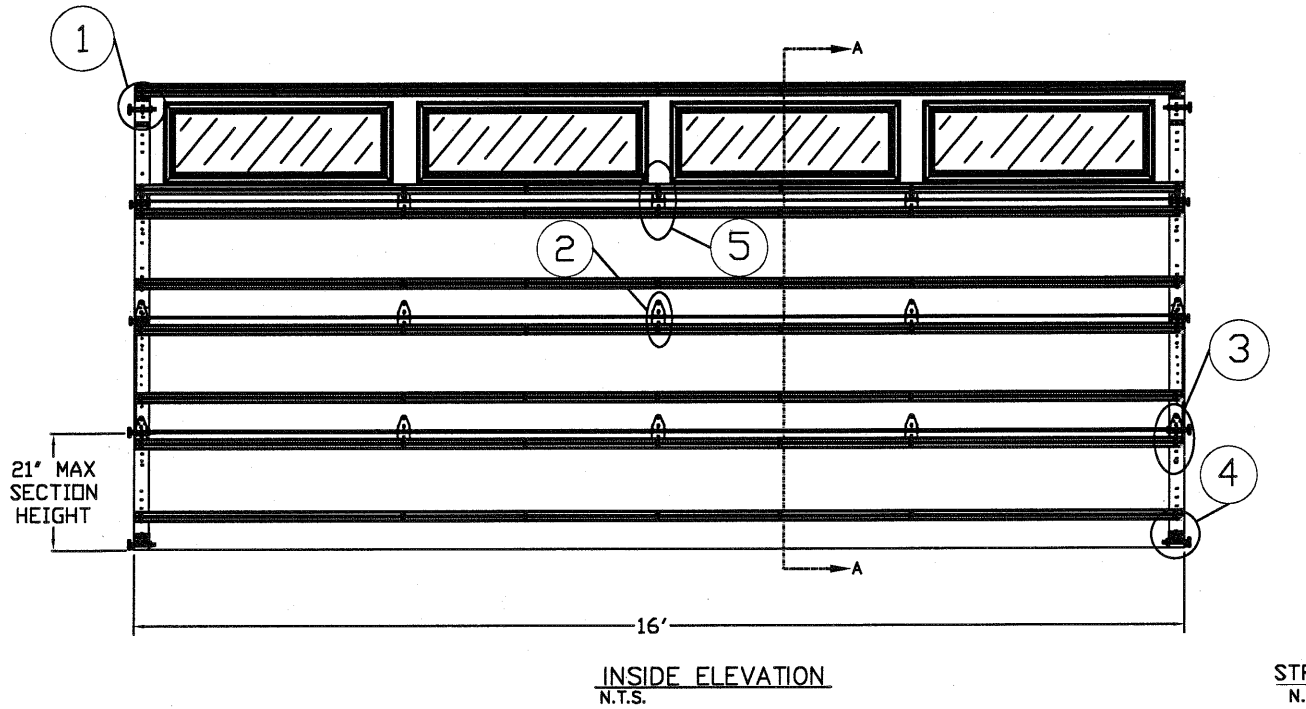
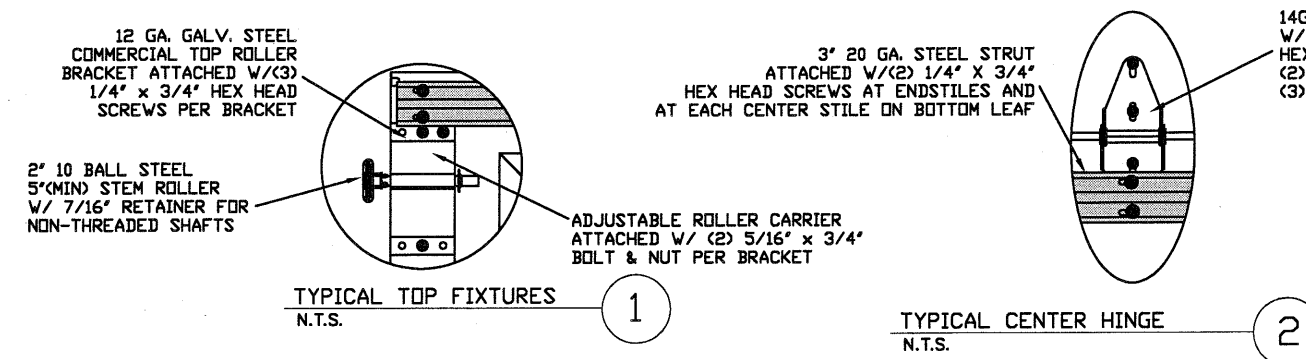
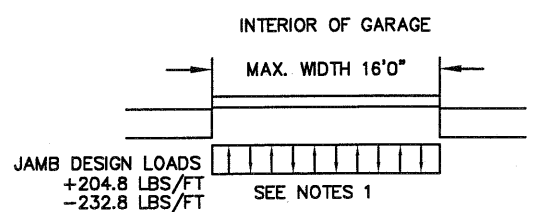




SECTION A-A (SIDE VIEW) N.T.S.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108, & 115, AND ASTM E330, E1886, E1996, & F588. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	168	152	145	138	133
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
A	ADDED GLAZING OPTIONS	10/28/13	RLR

MAX SIZE 16' WIDTH 14' HEIGHT

DESIGN LOADS +25.6 PSF -29.1 PSF

TEST LOADS +38.4 PSF -43.65 PSF

LARGE MISSILE IMPACT RESISTANT

Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412)

THOMAS L. SHELMERDINE LICENSE No. 48579 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL

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

Amarr

MODEL #1600 AMARR LINCOLN 3000 MODEL #1650 AMARR HILLCREST 3000

SIZE	DRAWN BY	RLR	DATE	12/19/11	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	12/19/11	IRC-1616-130-15-1

ENTREMATICS 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 1 OF 3

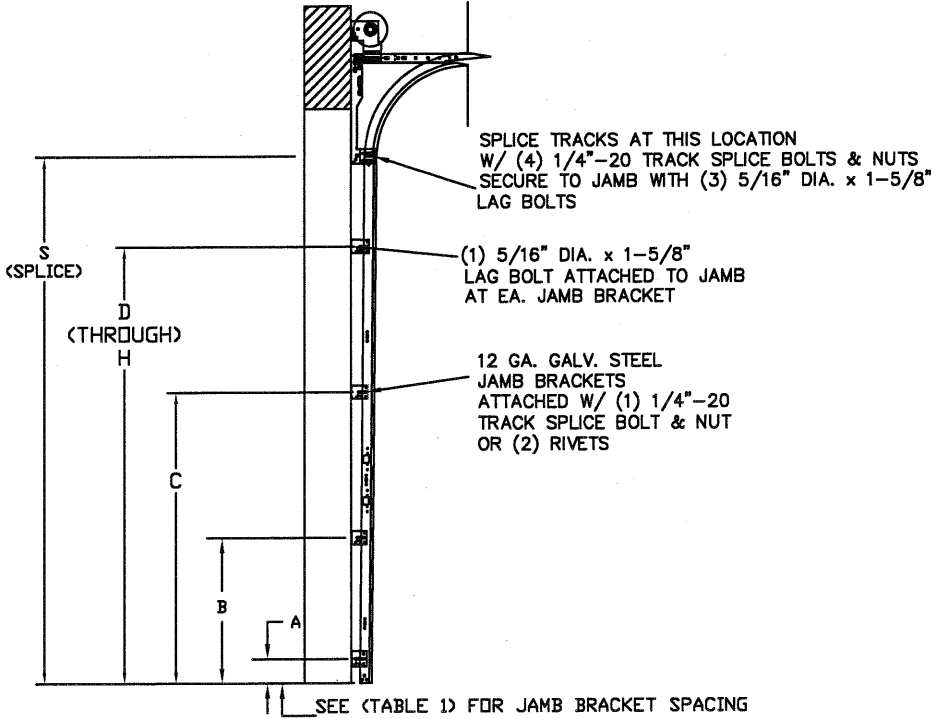
TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT								SPLICE
	A	B	C	D	E	F	G	H	
6' 6"	3.5"	21"	39"	57"					70"
7'	3.5"	21"	42"	63"					76"
7' 6"	3.5"	18"	36"	54"	72"				82"
8'	3.5"	21"	39"	57"	75"				88"
8' 6"	3.5"	21"	42"	63"	81"				94"
9'	3.5"	18"	36"	54"	72"	90"			100"
9' 6"	3.5"	21"	39"	57"	75"	93"			106"
10'	3.5"	21"	42"	63"	81"	99"			112"
10' 6"	3.5"	21"	42"	63"	84"	105"			118"
11'	3.5"	21"	39"	57"	75"	93"	111"		124"
11' 6"	3.5"	21"	42"	63"	81"	99"	117"		130"
12'	3.5"	21"	42"	63"	84"	105"	123"		136"
12' 6"	3.5"	21"	39"	57"	75"	93"	111"	129"	142"
13'	3.5"	21"	42"	63"	81"	99"	117"	135"	148"
13' 6"	3.5"	21"	42"	63"	84"	105"	123"	141"	154"
14'	3.5"	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"				



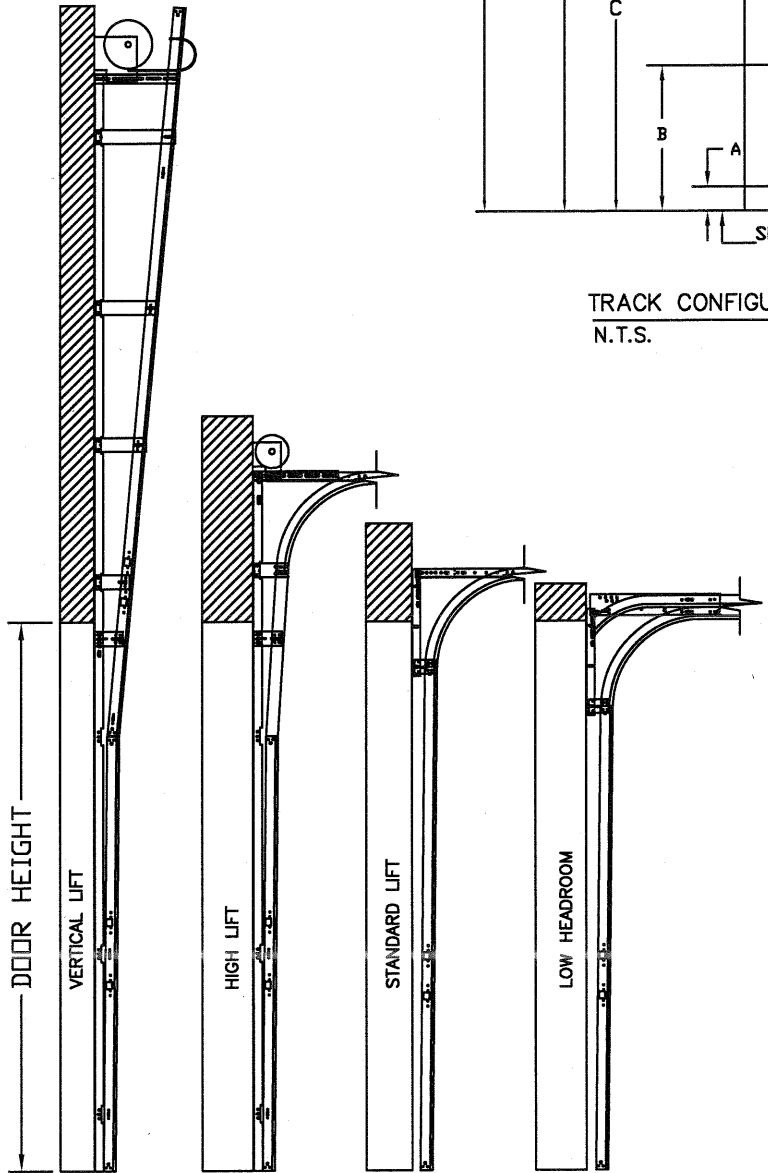
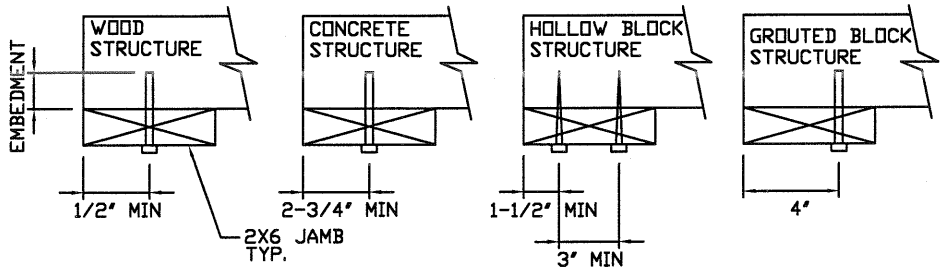
TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS
N.T.S.

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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDED GLAZING OPTIONS	10/28/13	RLR

MAX SIZE
16' WIDTH
14' HEIGHT

DESIGN LOADS
+25.6 PSF
-29.1 PSF

TEST LOADS
+38.4 PSF
-43.65 PSF

LARGE
MISSILE
IMPACT
RESISTANT

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

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

Amarr

MODEL #1600 AMARR LINCOLN 3000
MODEL #1650 AMARR HILLCREST 3000

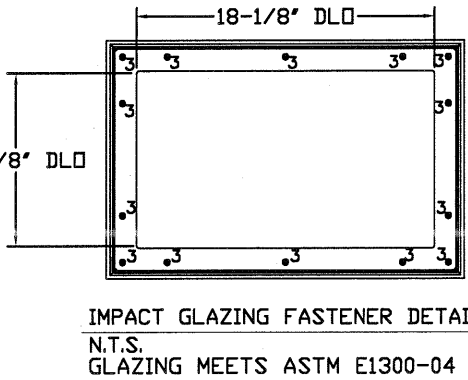
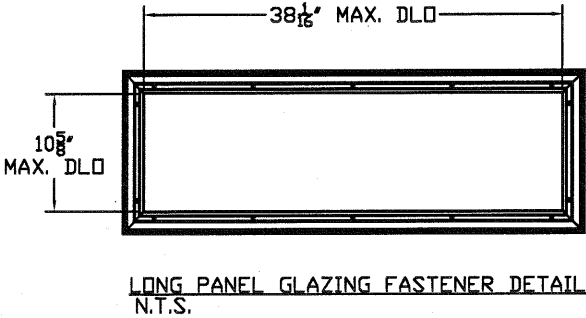
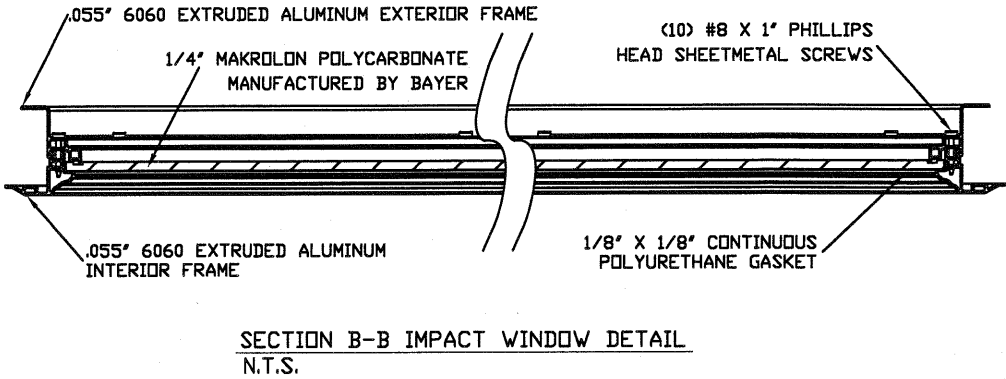
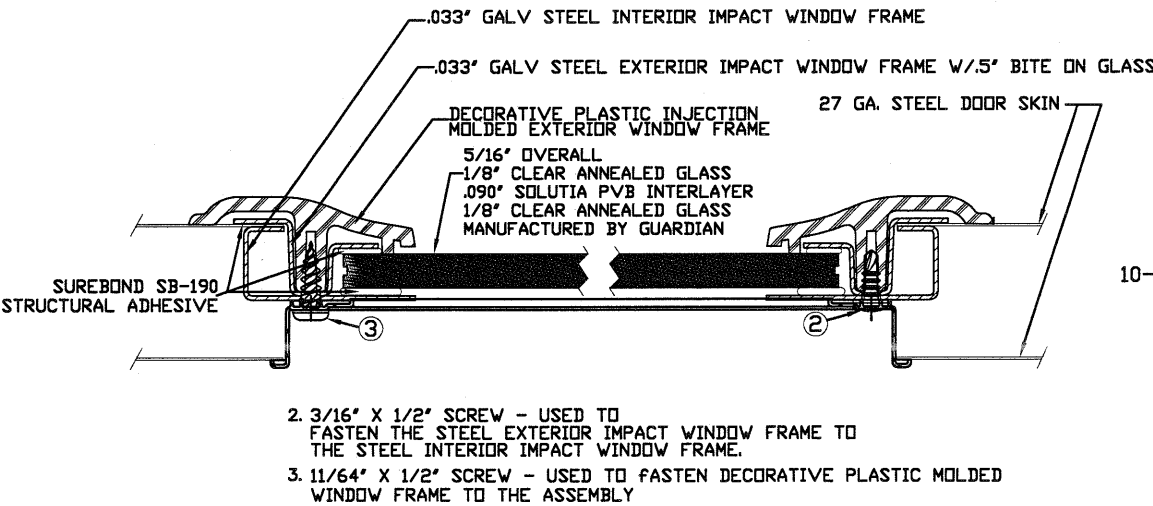
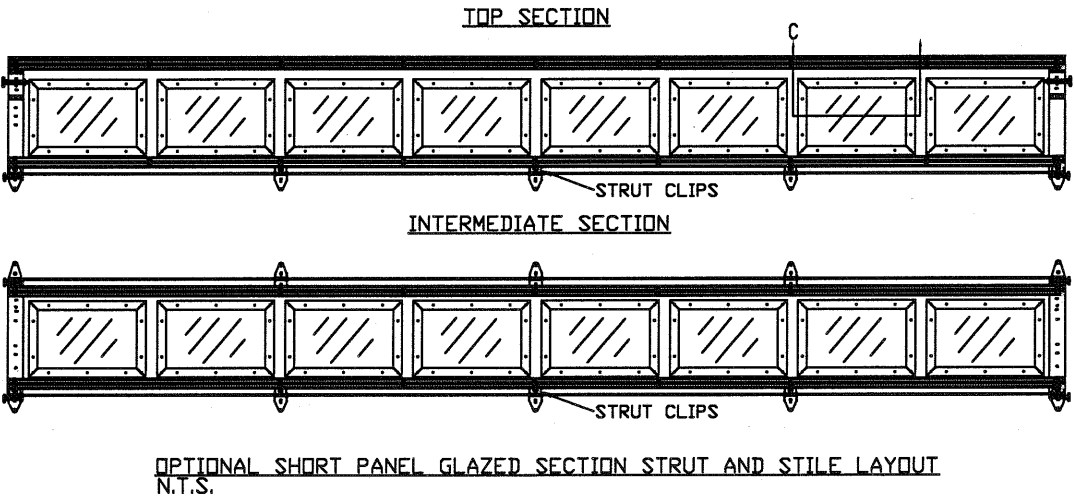
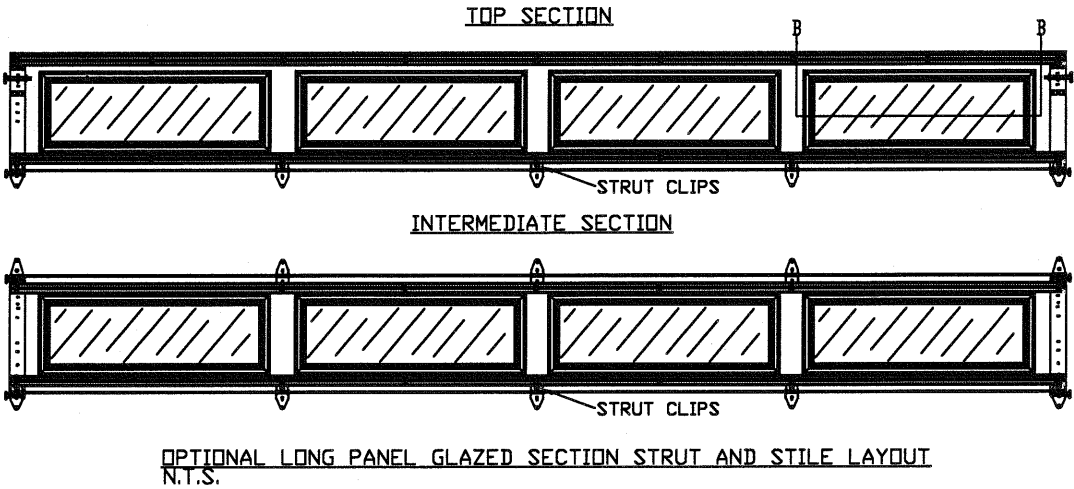
SIZE	DRAWN BY	RLR	DATE	12/19/11	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	12/19/11	IRC-1616-130-15-1

ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 2 OF 3

TABLE 3

Section		Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
Width (ft)		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	130.40	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



REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDED GLAZING OPTIONS	10/28/13	RLR
MAX SIZE 16' WIDTH 14' HEIGHT DESIGN LOADS +25.6 PSF -29.1 PSF TEST LOADS +38.4 PSF -43.65 PSF LARGE MISSILE IMPACT RESISTANT Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) THOMAS L. SHELMERDINE LICENSE No. 48579 STATE OF FLORIDA PROFESSIONAL ENGINEER FL dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410			
MODEL #1600 AMARR LINCOLN 3000 MODEL #1650 AMARR HILLCREST 3000			
SIZE	DRAWN BY RLR	DATE 12/19/11	DRAWING NUMBER
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ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 3 OF 3