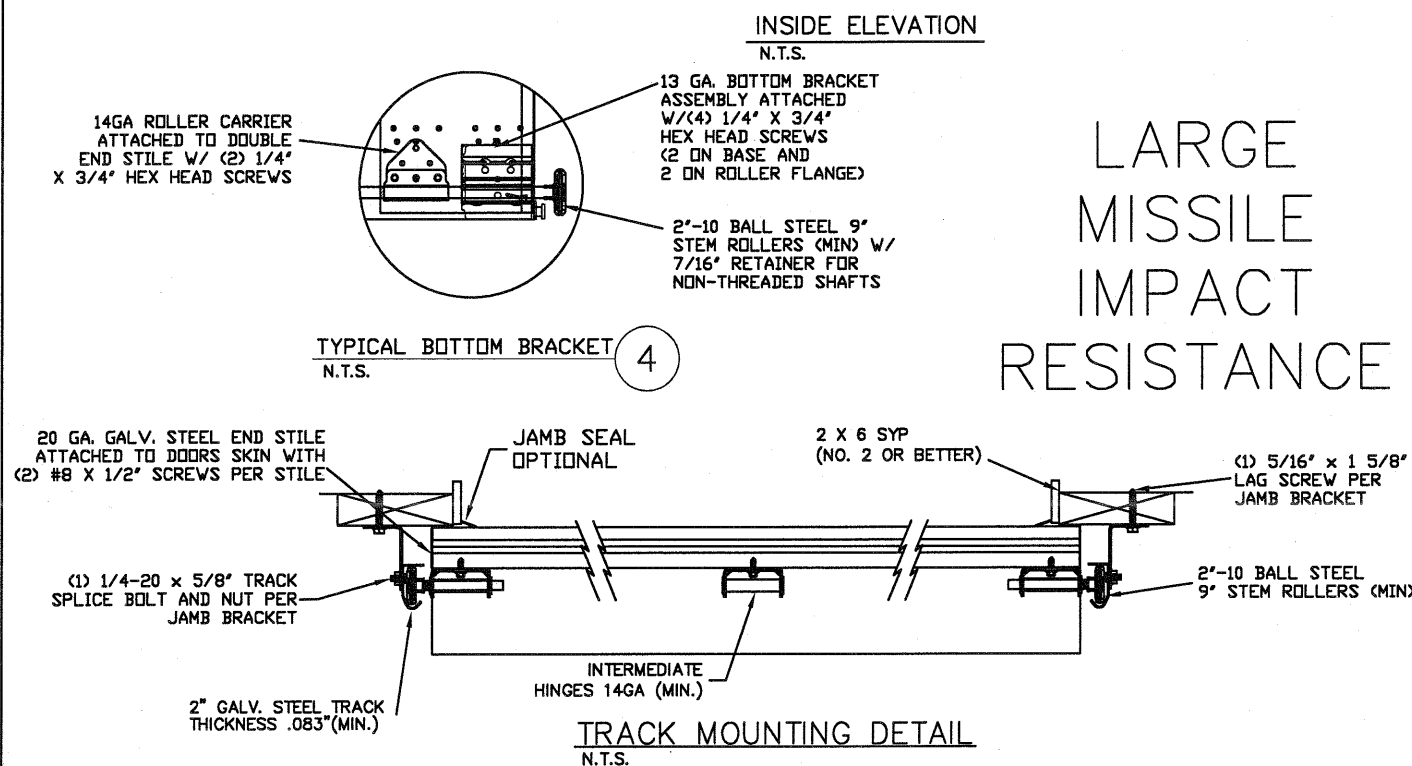
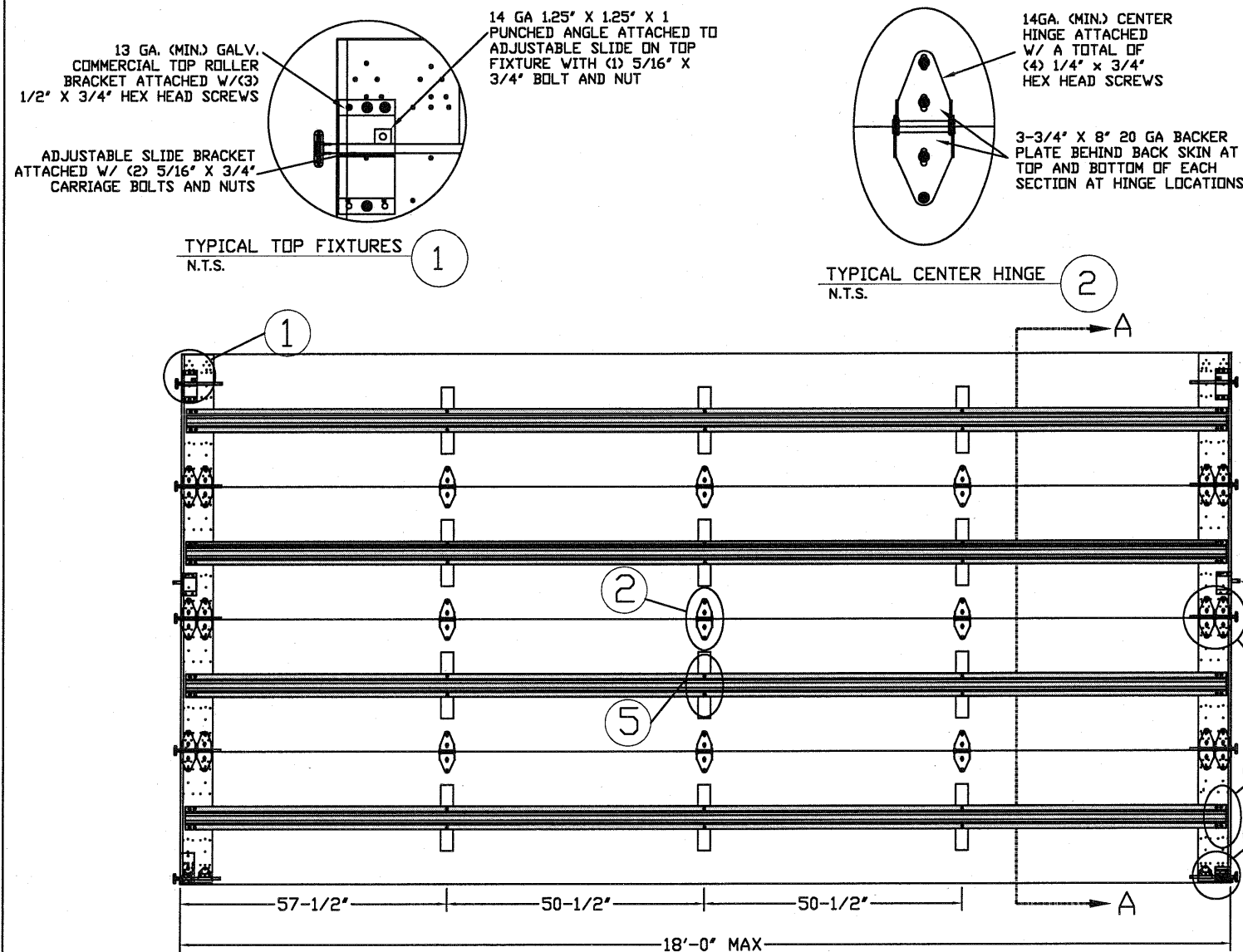
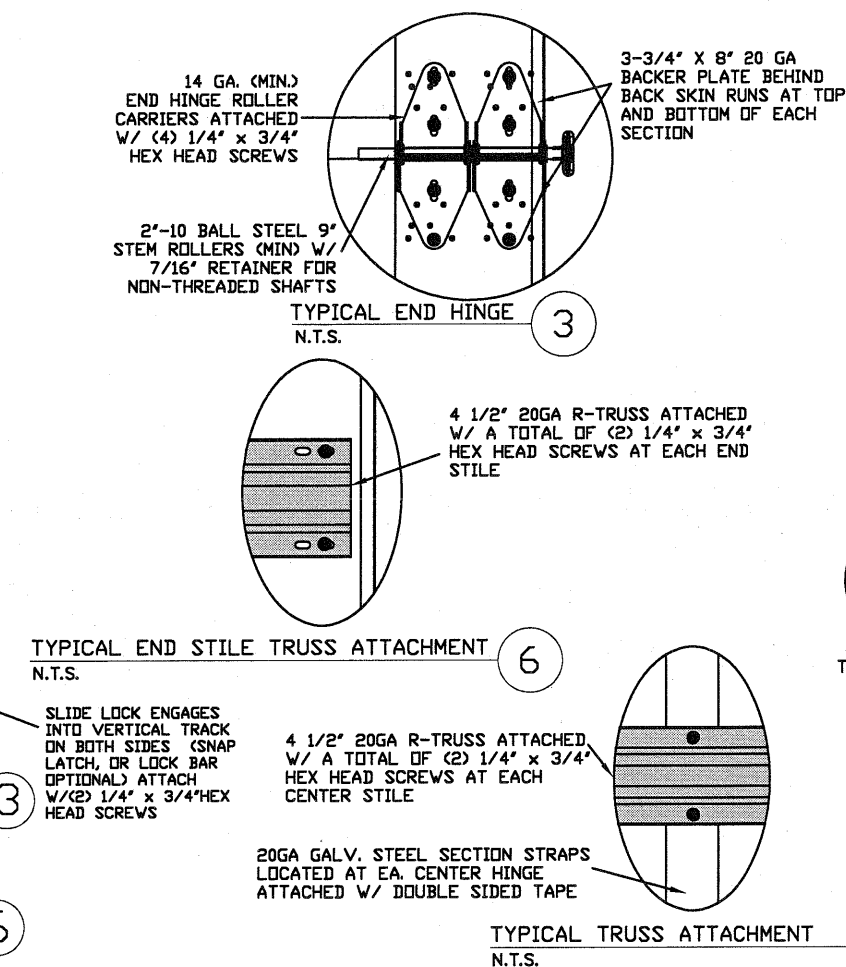




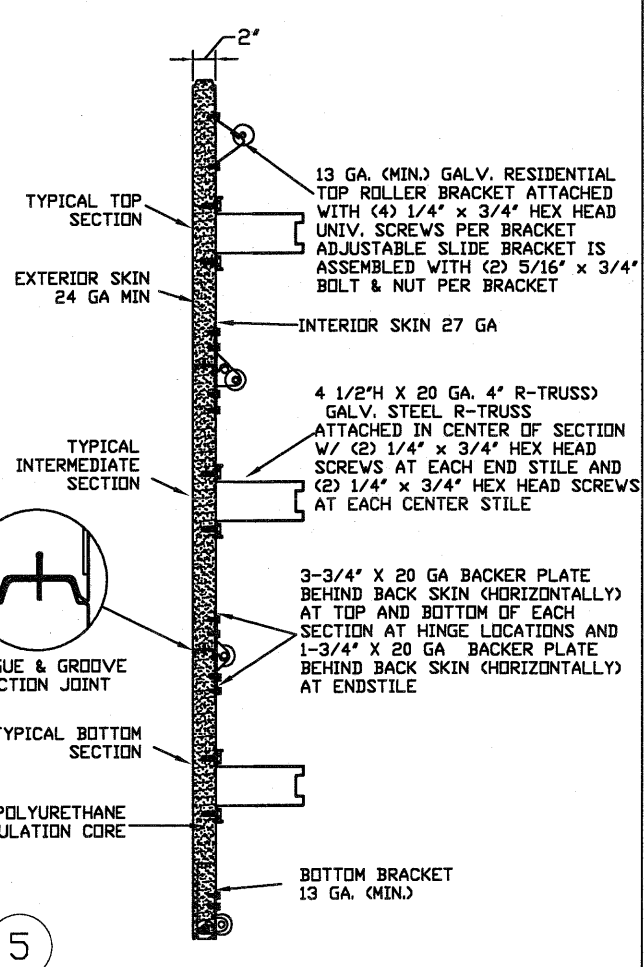
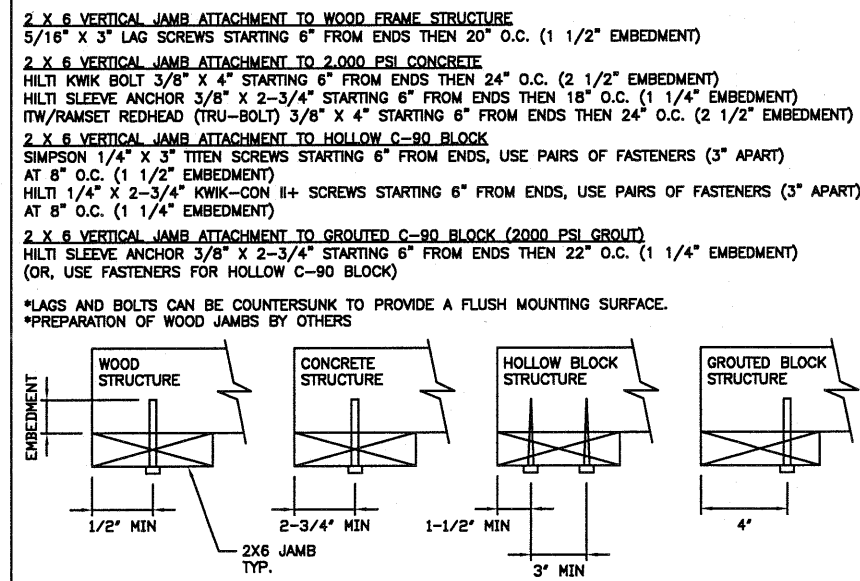
LARGE MISSILE IMPACT RESISTANCE



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108 & 115, AND ASTM E330, E1886, & E1996. 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, I=1.0):

WIND SPEED (MPH)	130	118	112	107	102
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

WOOD JAMB ATTACHMENT TO STRUCTURE



SECTION A-A (SIDE VIEW)

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' x 14'

DESIGN LOADS
+25.4 PSF
-28.7 PSF

TEST LOADS
+38.1 PSF
-43.1 PSF

LARGE MISSILE
IMPACT
RESISTANCE

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

FL

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

MODEL P500 AMARR OLYMPUS MODEL D500 AMARR DESIGNERS CHOICE			
SIZE B	DRAWN BY BHG	DRC BHG	DATE 04/18/11
CHECKED BY BHG		DATE 04/18/11	
ENTREMATC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IRC-P518-130-24-1 SHEET 1 OF 2

TABLE 1

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

TABLE 3

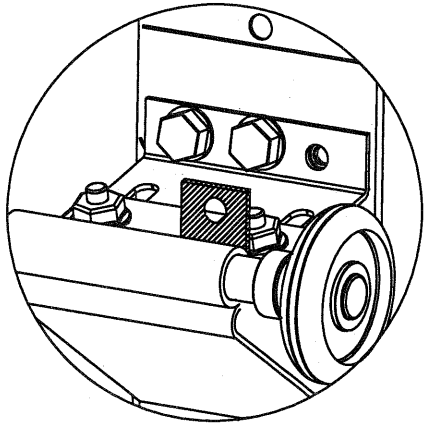
Section		Center Stile Locations (Measured from Left)		
Width (ft)		1st (in)	2st (in)	3rd (in)
16'	2	50.27	97.00	143.73
16'	4	51.27	98.00	144.73
16'	6	52.27	99.00	145.73
16'	8	51.34	100.00	148.66
16'	10	51.50	101.00	150.50
17'	0	53.34	102.00	150.66
17'	2	53.00	103.00	153.00
17'	4	54.00	104.00	154.00
17'	6	55.00	105.00	155.00
17'	8	54.80	106.00	157.20
17'	10	55.80	107.00	158.20
18'	0	57.25	108.00	158.75

TABLE 2

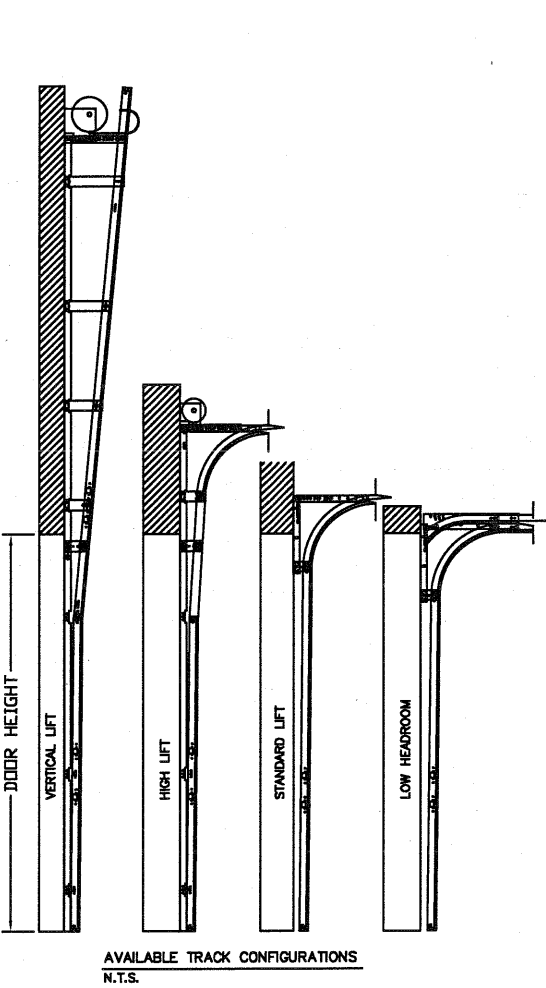
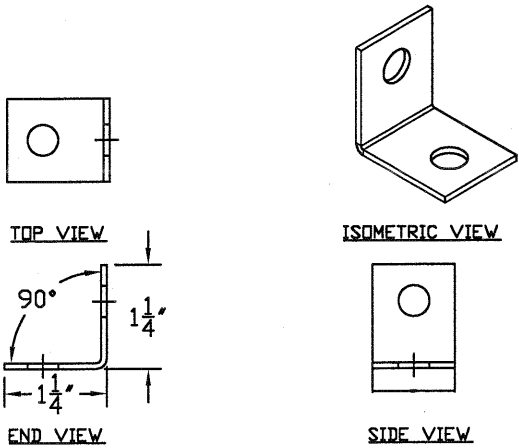
HEIGHT	TRACK ATTACHMENT								SPLICE
	A	B	C	D	E	F	G	H	
6' 0"	3.5"	18"	36"	54"					64"
6' 6"	3.5"	21"	38"	58"					70"
7' 0"	3.5"	21"	42"	63"					76"
7' 6"	3.5"	18"	36"	54"	72"				82"
8' 0"	3.5"	21"	39"	58"	75"				88"
8' 6"	3.5"	21"	42"	63"	81"				94"
9' 0"	3.5"	18"	36"	54"	72"	90"			100"
9' 6"	3.5"	21"	39"	57"	75"	93"			106"
10' 0"	3.5"	21"	42"	63"	81"	99"			112"
10' 6"	3.5"	21"	42"	63"	84"	105"			118"
11' 0"	3.5"	21"	39"	57"	75"	93"	111"		124"
11' 6"	3.5"	21"	42"	63"	81"	99"	117"		130"
12' 0"	3.5"	21"	42"	63"	84"	105"	123"		136"
12' 6"	3.5"	18"	36"	57"	75"	93"	111"	129"	142"
13' 0"	3.5"	21"	42"	63"	81"	99"	117"	135"	148"
13' 6"	3.5"	21"	42"	63"	84"	105"	123"	141"	154"
14' 0"	3.5"	21"	42"	63"	84"	105"	126"	147"	160"

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

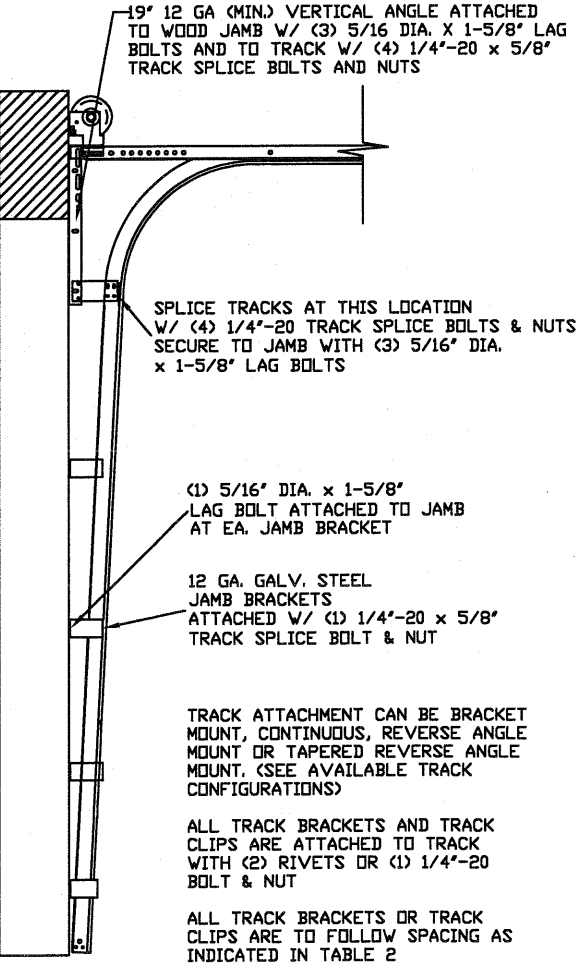
TOP FIXTURE REINFORCEMENT
ILLUSTRATION



TOP FIXTURE ADDER PIECE



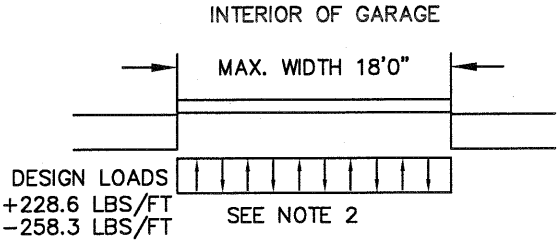
AVAILABLE TRACK CONFIGURATIONS
N.T.S.



TRACK CONFIGURATION FOR UP TO 14' TALL DOORS

SPECIFICATIONS AND NOTES

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +228.6 LBS/FT & -258.3 LBS/FT.
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27GA MIN. INTERIOR AND 24GA MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH.
5. DOORS UP TO 14'0 HIGH REQUIRE (1) 4-1/2" 20 GA R-TRUSS PER SECTION.
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
7. PANEL STAMP DOES NOT AFFECT WINDLOAD CAPABILITIES.



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' x 14'

DESIGN LOADS
+25.4 PSF
-28.7 PSF

TEST LOADS
+38.1 PSF
-43.1 PSF

LARGE MISSILE
IMPACT
RESISTANCE

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 P500 AMARR OLYMPUS
MODEL D500 AMARR DESIGNERS CHOICE

SIZE	DRAWN BY	DRC	DATE	04/18/11	DRAWING NUMBER
B	CHECKED BY	BHG	DATE	04/18/11	IRC-P518-130-24-1

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

SHEET 2 OF 2