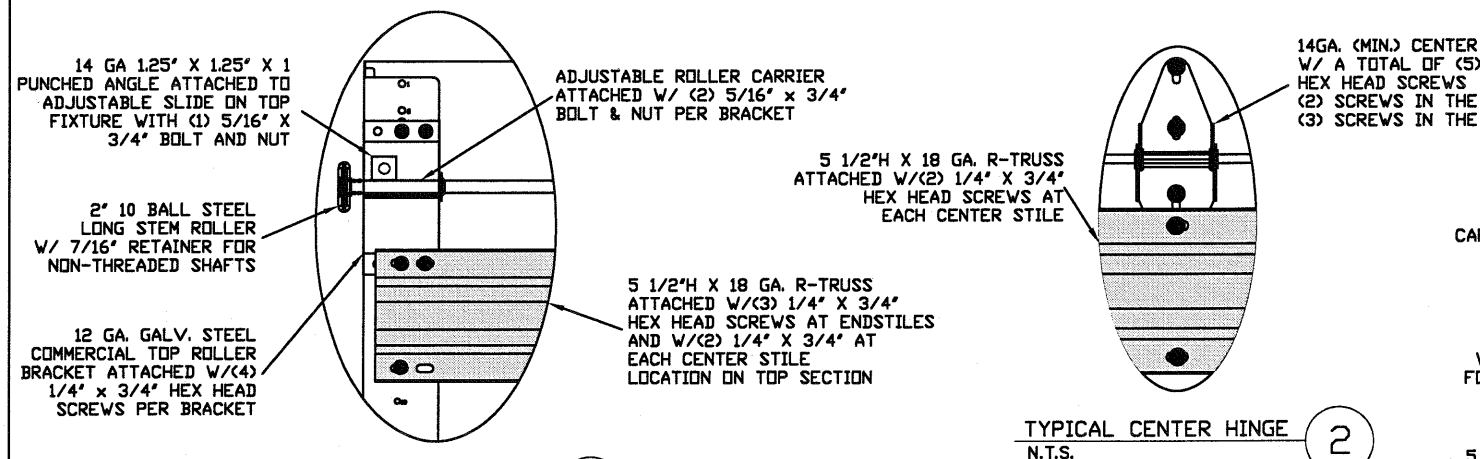
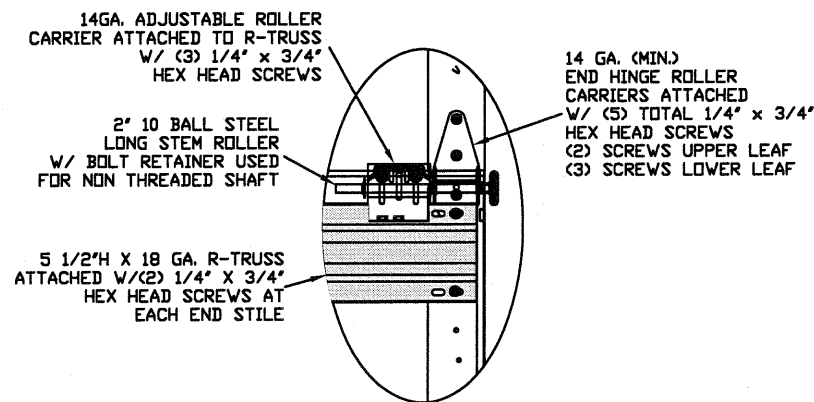


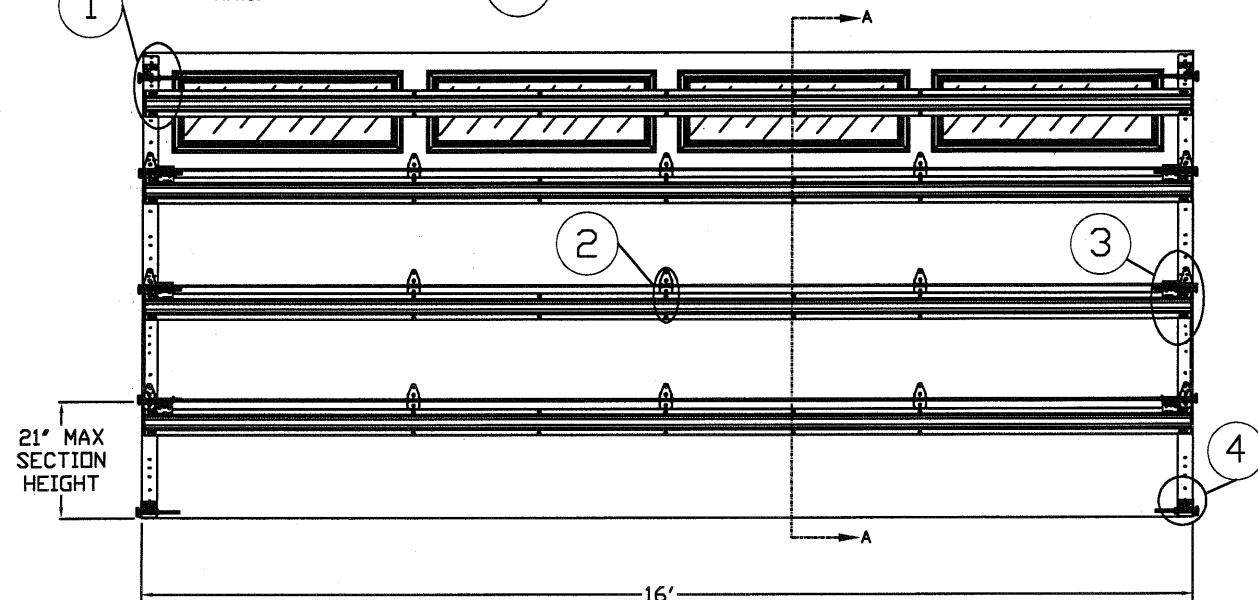


TYPICAL TOP FIXTURES
N.T.S.

TYPICAL CENTER HINGE
N.T.S.

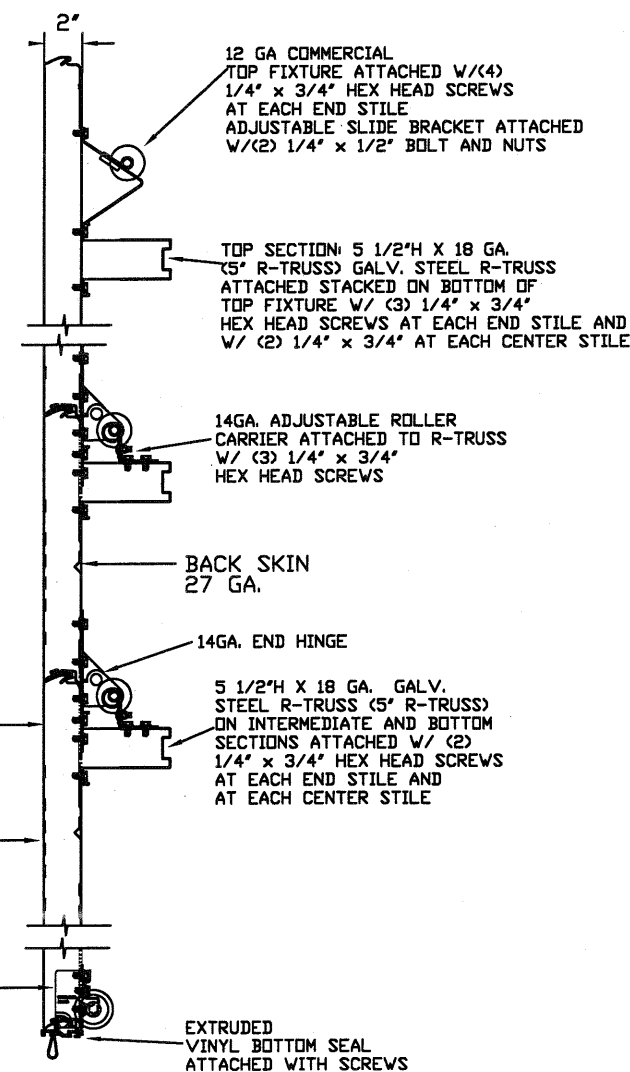


TYPICAL END HINGE
N.T.S.



INSIDE ELEVATION
N.T.S.

LARGE
MISSILE
IMPACT
RESISTANT



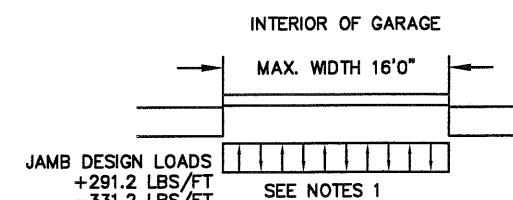
SECTION A-A (SIDE VIEW)
N.T.S.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108 & 115, 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)	200	182	173	165	158
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: +291.2 LBS/FT & -331.2 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
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MAX SIZE 16' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS)

DESIGN LOADS +36.4 PSF -41.4 PSF

TEST LOADS +54.6 PSF -62.1 PSF

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	02/24/14	DRAWING NUMBER
B	CHECKED BY		DATE		IRC-1616-155-26-1
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 1 OF 3

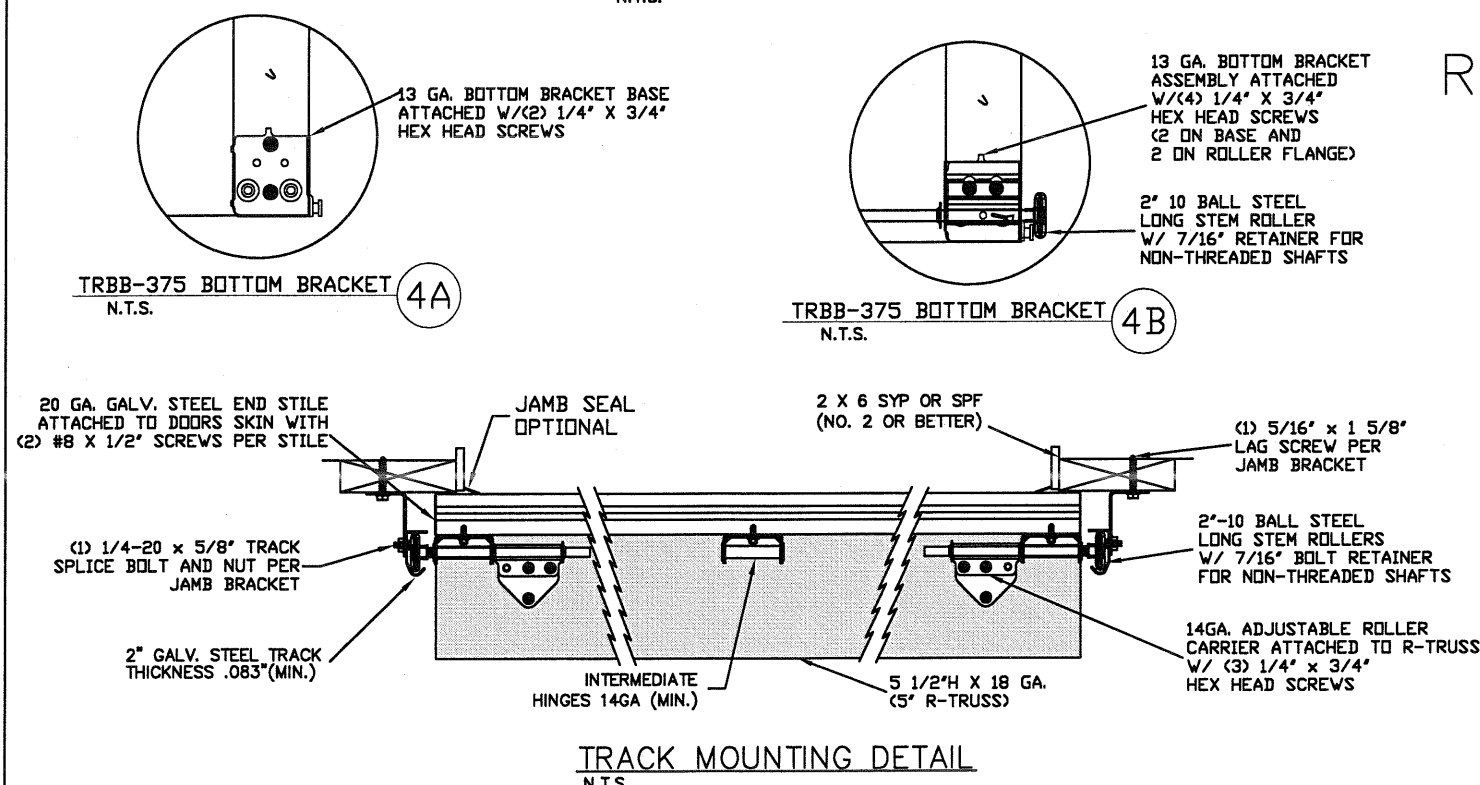
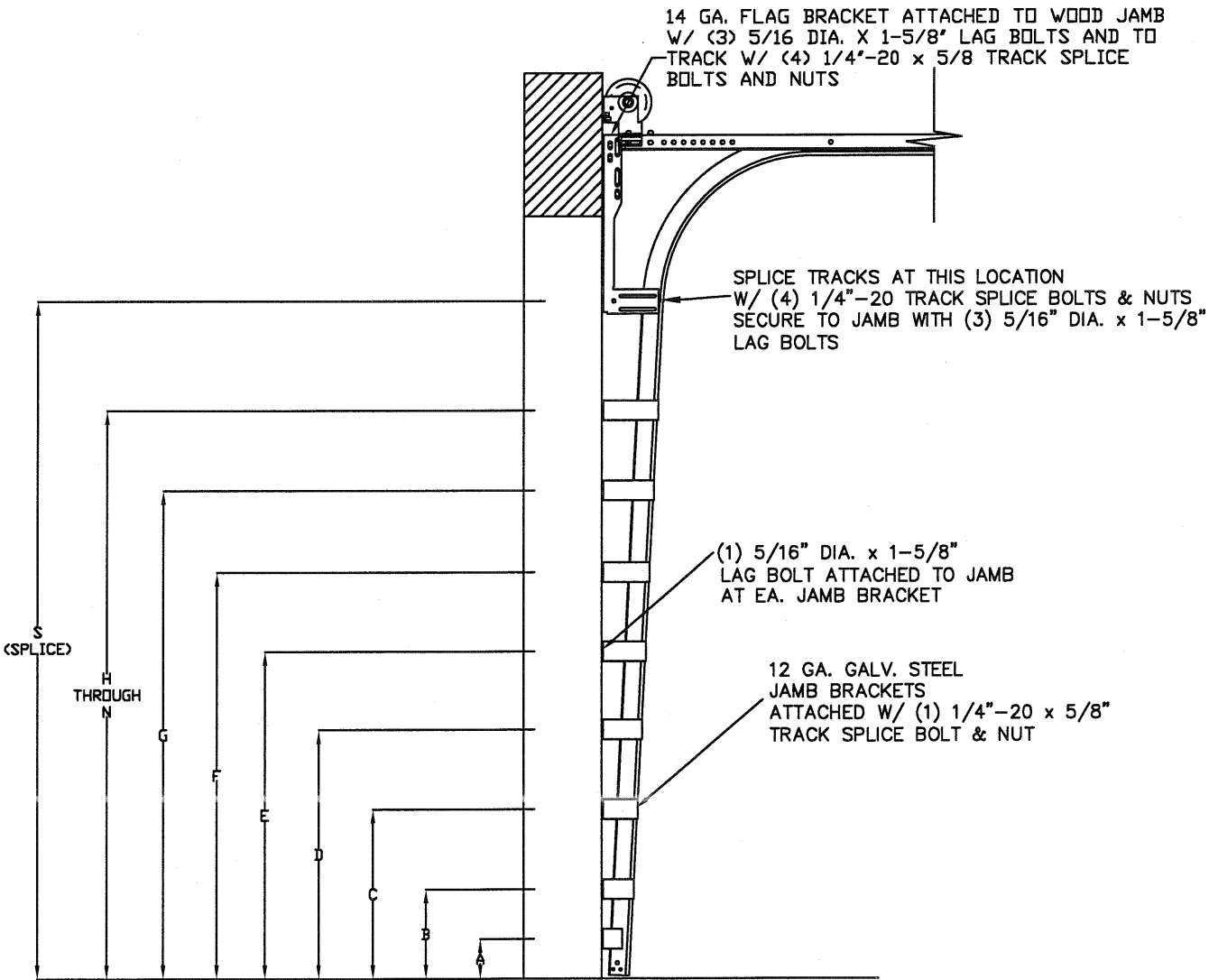


TABLE 1

HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
6' 0"	3.5"	10"	22"	34"	46"	58"									64"
6' 6"	3.5"	10"	22"	34"	46"	58"									70"
7' 0"	3.5"	10"	22"	34"	46"	58"	70"								76"
7' 6"	3.5"	10"	22"	34"	46"	58"	70"								82"
8' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"							88"
8' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"							94"
9' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						100"
9' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						106"
10' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					112"
10' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					118"
11' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				124"
11' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				130"
12' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			136"
12' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			142"
13' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		148"
13' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		154"
14' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	160"

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



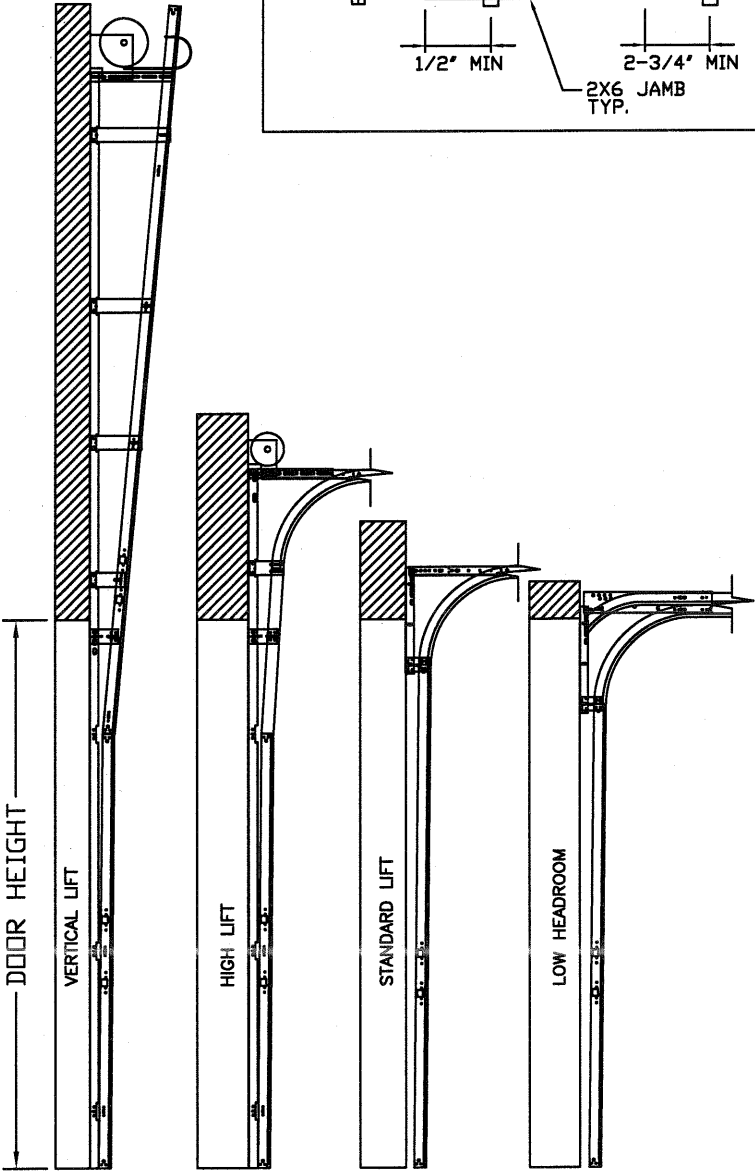
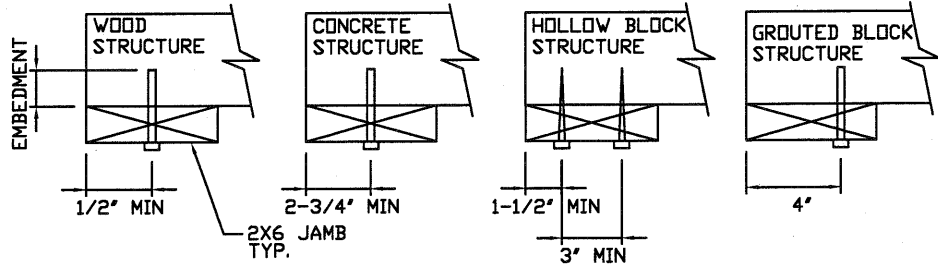
SEE TABLE 1 FOR JAMB BRACKET SPACING
TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS

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 16" 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 14" 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 8" 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 8" 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 16" 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

MAX SIZE
16' WIDTH
14' HEIGHT
(DOOR HEIGHT
SUBJECT TO
WEIGHT LIMITATIONS)

DESIGN LOADS
+36.4 PSF
-41.4 PSF

TEST LOADS
+54.6 PSF
-62.1 PSF

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

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Amarr

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

SIZE	DRAWN BY	RLR	DATE	02/24/14	DRAWING NUMBER
B	CHECKED BY	DATE	IRC-1616-155-26-1		

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

SHEET 2 OF 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			48.6	-55.2
10'	2	49.32	72.68			47.8	-54.4
10'	4	50.32	73.68			47.2	-53.7
10'	6	50.84	75.17			46.3	-52.6
10'	8	51.84	76.17			45.6	-51.9
10'	10	52.50	77.50			44.9	-51.0
11'	0	53.50	78.50			44.3	-50.4
11'	2	54.20	79.80			43.6	-49.6
11'	4	55.20	80.80			43.0	-48.9
11'	6	56.20	81.80			42.5	-48.3
11'	8	57.20	82.80			42.0	-47.8
11'	10	47.81	94.19			36.9	-42.0
12'	0	48.81	95.19			36.5	-41.5
12'	2	49.64	96.36			36.1	-41.0
12'	4	50.64	97.36			35.7	-40.6
12'	6	50.67	99.33			35.0	-39.8
12'	8	51.67	100.33			34.7	-39.4
12'	10	52.25	101.75			34.2	-38.9
13'	0	53.00	103.00			33.8	-38.4
13'	2	54.00	104.00			33.4	-38.0
13'	4	54.40	105.60			32.9	-37.4
13'	6	55.40	106.60			32.6	-37.1
13'	8	56.40	107.60			32.3	-36.8
13'	10	57.16	82.94	108.71		41.9	-47.6
14'	0	57.76	83.94	110.11		41.4	-47.1
14'	2	58.85	84.94	111.41		40.9	-46.5
14'	4	59.16	85.94	112.71		40.4	-46.0
14'	6	59.86	86.94	114.01		40.0	-45.5
14'	8	60.56	87.94	115.31		39.5	-44.9
14'	10	61.26	88.94	116.61		39.1	-44.4
15'	0	61.94	89.94	117.94		38.6	-43.9
15'	2	62.66	90.94	119.21		38.2	-43.5
15'	4	53.60	79.20	104.80	130.40	37.8	-43.0
15'	6	46.62	93.00	139.38		37.4	-42.5
15'	8	47.62	94.00	140.38		37.0	-42.1
15'	10	48.62	95.00	141.38		36.6	-41.6
16'	0	49.62	96.00	142.38		36.4	-41.4

SIDE VIEW

5A

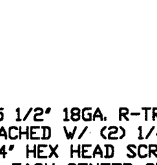
TOP SECTION

5B

INTERMEDIATE SECTION

The image contains two technical drawings of a bridge structure. The top drawing, labeled '5A' and 'TOP SECTION', shows a side view of the bridge with multiple spans supported by piers. The bottom drawing, labeled '5B' and 'INTERMEDIATE SECTION', shows a cross-section of the bridge structure, highlighting the internal components and supports. Both drawings include dimension lines and labels for specific parts of the structure.

R-TRUSS SPACER
N.T.S. 5A



5 1/2" 18GA. R-TRUSS
ATTACHED W/ (2) 1/4" x
3/4" HEX HEAD SCREWS
AT EACH CENTER STILE

R-TRUSS SPACER

R-TRUSS SPACER (5B)
N.T.S.

Diagram of a rectangular frame with dimensions: 38 $\frac{1}{8}$ " MAX. DLO and 10 $\frac{5}{8}$ " MAX. DLO.

Diagram illustrating a rectangular frame with dimensions and corner details:

- Overall width: $18-1/8"$ DLO
- Overall height: $10-5/8"$ DLO
- Corner details: The corners are marked with dots and labeled with "3" and "3°", indicating specific corner treatments or materials.

IMPACT GLAZING FASTENER DETAIL
N.T.S.
GLAZING MEETS ASTM E1300-04

Technical drawing of a window frame cross-section. The drawing shows a multi-layered structure. The outermost layer is a .055" 6060 extruded aluminum exterior frame. Below this is a 1/4" Makrolon polycarbonate manufactured by Bayer. The innermost layer is a .055" 6060 extruded aluminum interior frame. A 1/8" x 1/8" continuous polyurethane gasket is located between the polycarbonate and the interior frame. The drawing is labeled with dimensions and material specifications.

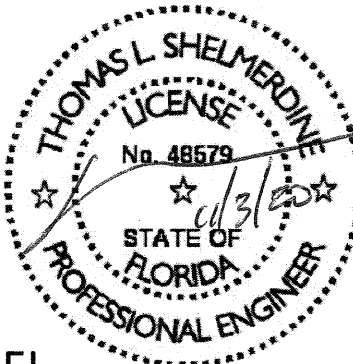
SECTION B-B IMPACT WINDOW DETAIL
N.T.S.

Technical drawing of a window frame cross-section showing various materials and components. The drawing includes labels for the following parts:

- .055" 6060 EXTRUDED ALUMINUM EXTERIOR FRAME
- 1/4" MAKROLON POLYCARBONATE MANUFACTURED BY BAYER
- (10) #8 X 1" PHILLIPS HEAD SHEETMETAL SCREWS
- .055" 6060 EXTRUDED ALUMINUM INTERIOR FRAME
- 1/8" X 1/8" CONTINUOUS POLYURETHANE GASKET

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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 16' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS) DESIGN LOADS +36.4 PSF -41.4 PSF TEST LOADS +54.6 PSF -62.1 PSF	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
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MODEL #1600 AMARR LINCOLN 3000 MODEL #1650 AMARR HILLCREST 3000			
SIZE	DRAWN BY	R/LR	DATE 02/24/14
B	CHECKED BY		DATE
			DRAWING NUMBER IRC-1616-155-26-1

ENTERMATIC 165 CARRIDGE COURT WINSTON-SALEM, N.C. 27105	SHEET 3 OF 3
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