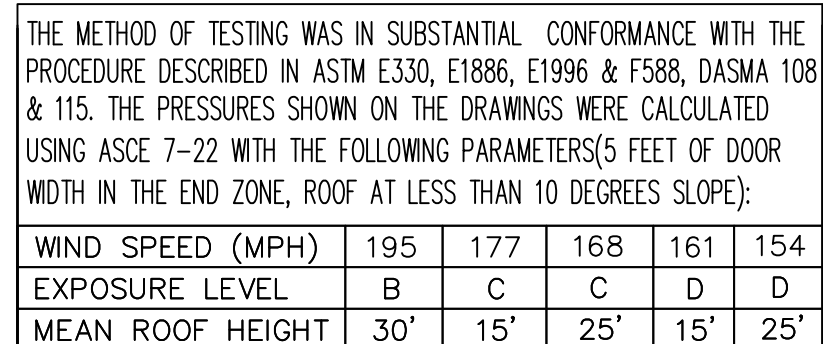
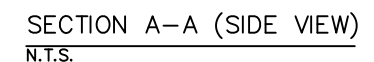
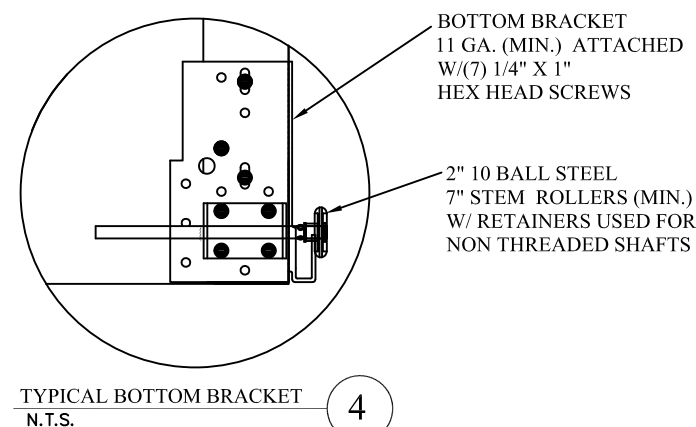
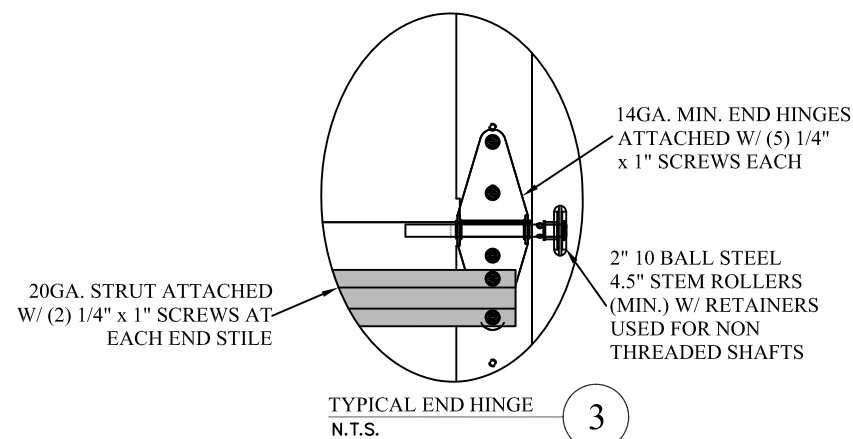
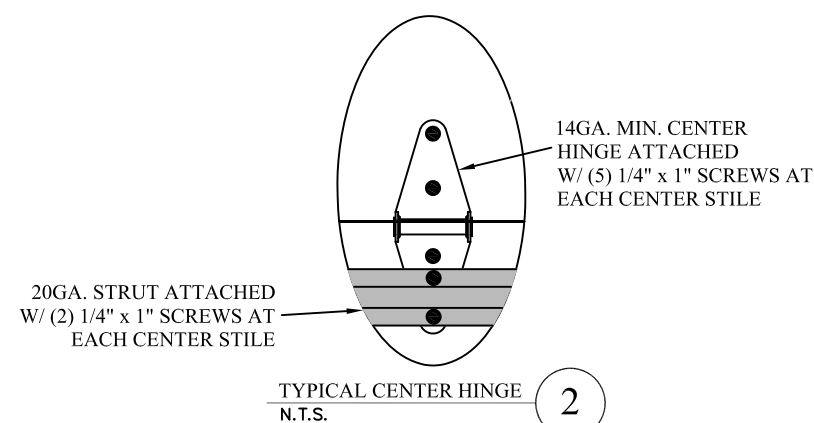




REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'2" x 24' DESIGN LOADS +32.7 PSF -38.4 PSF TEST LOADS +49.1 PSF -57.6 PSF LARGE MISSILE IMPACT RESISTANCE	 <i>See Digital Signature</i> Thomas L Shelmerdine Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410 This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies. <i>Digitally signed by Thomas L Shelmerdine DN: c=US, o=North Carolina, dnQualifier=A01410D000001856487A7B 100125CE2, cn=Thomas L Shelmerdine Date: 2023.09.27 13:55:47 -04'00'</i> FL		
			
AMARR 2432			
SIZE	DRAWN BY	RLR	DATE 6/5/17
B	CHECKED BY	RLR	DATE 6/5/17
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, NC 27105			
DRAWING NUMBER			IBC-1009-150-15-F
SHEET 1 OF 3			

TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS

ITW BUILDDEX 1/4"-14 X 3/4" SELF-TAPPING SCREWS (TEKS)

12 GA. OR 3/16" STEEL (SEE BELOW)

CLIP STYLE REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE MOUNT AVAILABLE

12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS AND 18" O.C.
REFER TO NOTES: 1, 2 AND 5

3/16" STEEL FRAMING
569 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5

1/8" NOM X 1" LONG FILLET WELD (E60xx ELECTRODES MIN.)

1/4" LONG TACK WELD SAME SPACING AS FILLET WELD

2000 PSI MIN. CONCRETE

SIMPSON STRONG-TIE 3/8"Ø WEDGE-ALL EXPANSION ANCHOR WITH 7/8"Ø WASHER. 1-3/4"MIN. EMBEDMENT

2-5/8" THICK WALL MIN. (1.5 x EMBEDMENT)

3" MIN. EDGE DISTANCE

CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, REVERSE AND TAPERED ANGLE MOUNT AVAILABLE

2000 PSI CONCRETE OR GREATER
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6" FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

2000 PSI MIN. CONCRETE

SIMPSON STRONG-TIE 3/8"Ø SLEEVE-ALL EXPANSION ANCHOR WITH 7/8"Ø WASHER. 1-3/4"MIN. EMBEDMENT

2-5/8" THICK WALL MIN. (1.5 x EMBEDMENT)

3" MIN. EDGE DISTANCE

CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE MOUNT AVAILABLE

2000 PSI CONCRETE OR GREATER
336 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6" FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

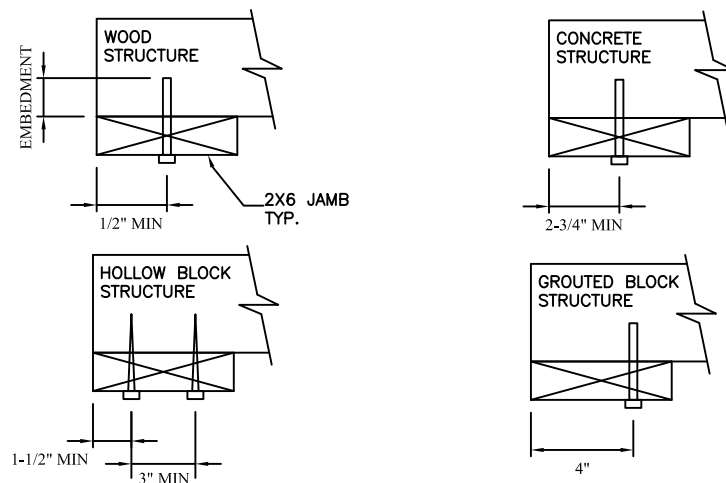
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS
THEN 24" O.C. (1 1/2" EMBEDMENT)

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 24" 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)

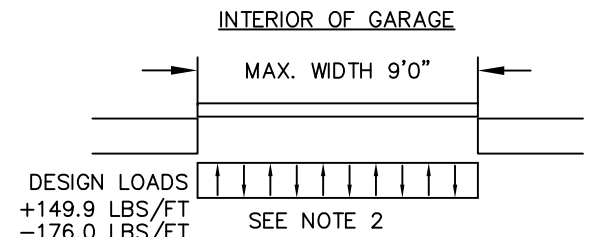
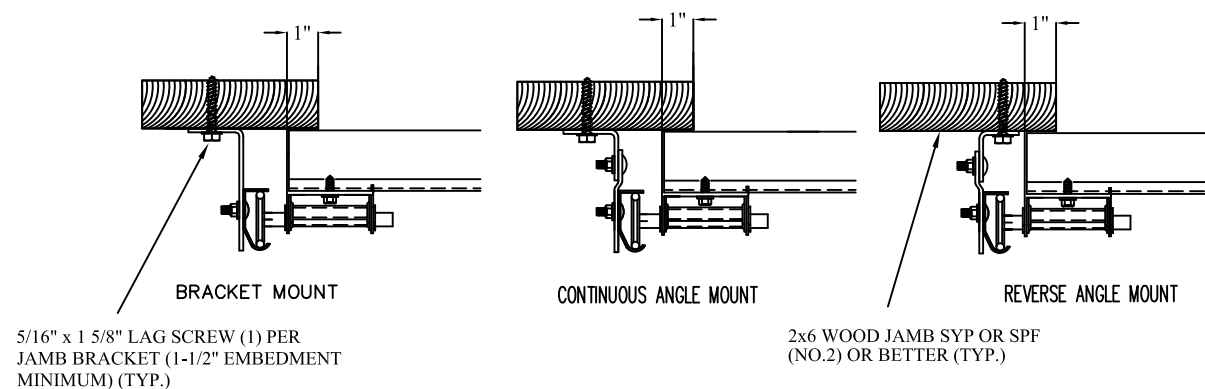
2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART)
AT 24" O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART) AT 24" O.C. (1 1/4" EMBEDMENT)

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)

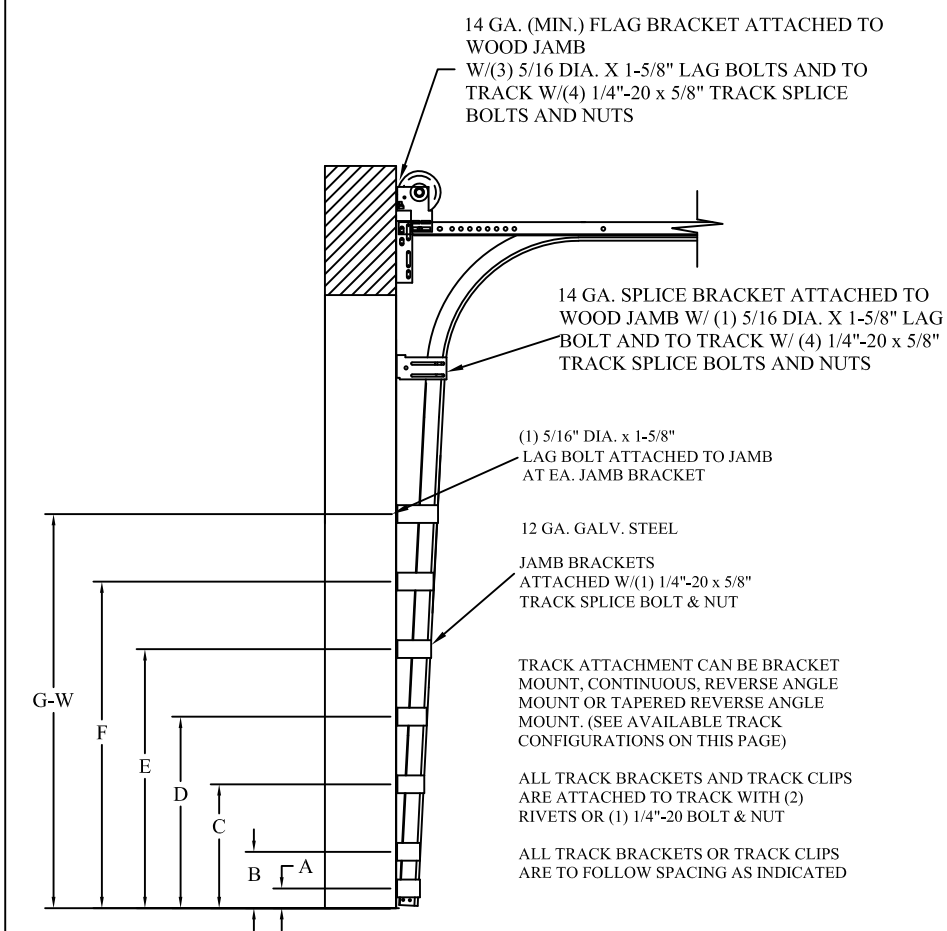
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS



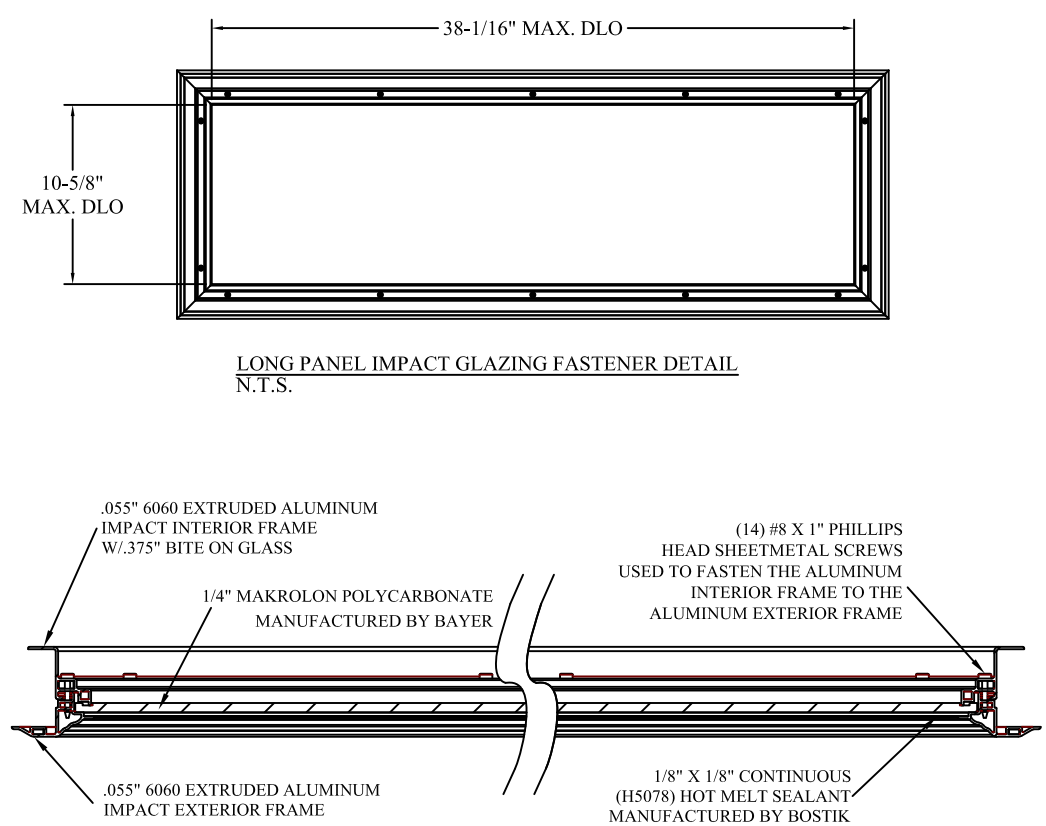
FOR LAG SCREWS & BRACKET SPACING SEE PAGE 3 FOR TRACK CONFIGURATION DETAIL



REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'2 x 24' DESIGN LOADS +32.7 PSF -38.4 PSF TEST LOADS +49.1 PSF -57.6 PSF LARGE MISSILE IMPACT RESISTANCE		 This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies. Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410 FL	
			
AMARR 2432			
SIZE	DRAWN BY	RLR	DATE 6/5/17
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AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-1009-150-15-F SHEET 2 OF 3



TRACK CONFIGURATION FOR UP TO 24' TALL DOORS
SEE TABLE 1



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

TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT																						
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
7' 0"	3.5"	10"	22"	34"	46"	58"																	
7' 6"	3.5"	10"	22"	34"	46"	58"	70"																
8' 0"	3.5"	10"	22"	34"	46"	58"	70"																
8' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"															
9' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"														
9' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"														
10' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"														
11' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"													
12' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"												
13' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"											
14' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"										
15' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"									
16' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"								
17' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"							
18' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"						
19' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"					
20' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"				
21' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"			
22' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"		
23' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	
24' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"

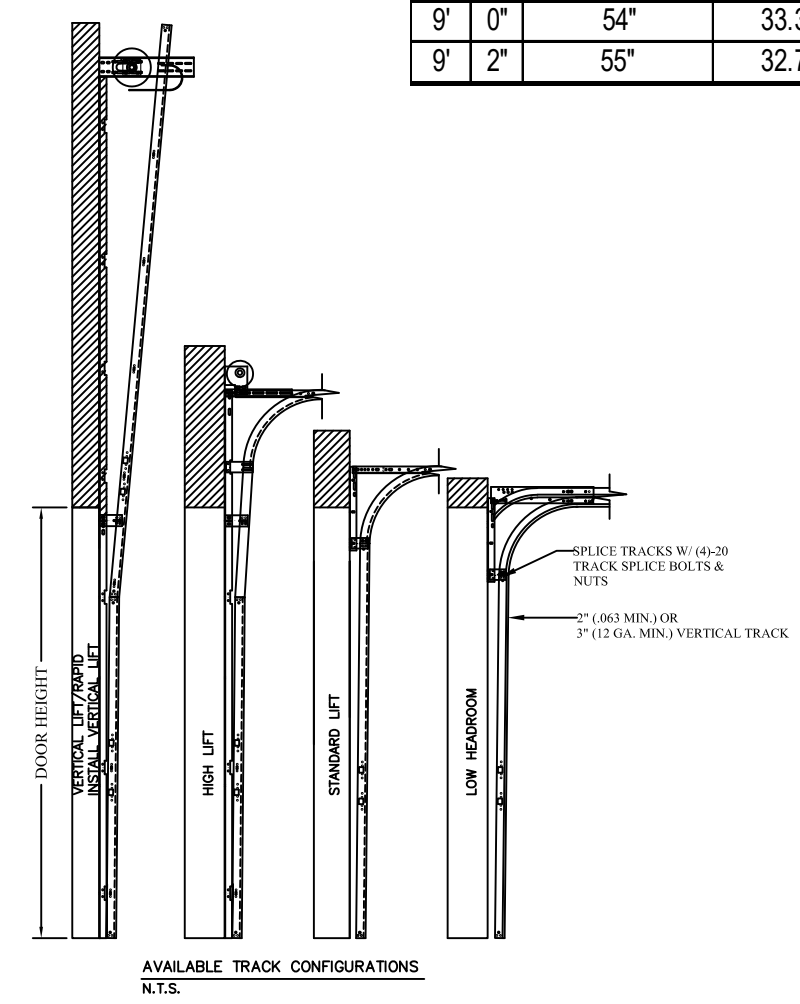
ALL TRACK ATTACHMENTS +/- 2" ALLOWED USING SYP OR SPF NO.2 OR BETTER ONLY

TABLE 2

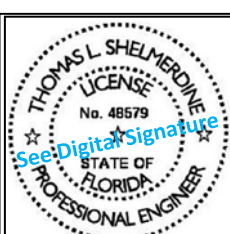
Section Width (ft)		Center Stile Locations (Measured from Left Edge)	Max Design Loads Allowed	
			Positive (PSF)	Negative (PSF)
6'	0"	36"	49.9	58.6
6'	2"	37"	48.6	57.0
6'	4"	38"	47.3	55.5
6'	6"	39"	46.1	54.1
6'	8"	40"	44.9	52.8
6'	10"	41"	43.8	51.5
7'	0"	42"	42.8	50.2
7'	2"	43"	41.8	49.1
7'	4"	44"	40.8	48.0
7'	6"	45"	39.9	46.9
7'	8"	46"	39.0	45.9
7'	10"	47"	38.2	44.9
8'	0"	48"	37.4	44.0
8'	2"	49"	36.7	43.1
8'	4"	50"	35.9	42.2
8'	6"	51"	35.2	41.4
8'	8"	52"	34.5	40.6
8'	10"	53"	33.9	39.8
9'	0"	54"	33.3	39.1
9'	2"	55"	32.7	38.4

TABLE 3

SECTION	
12TH	2"
11TH	3"
10TH	2"
9TH	3"
8TH	2"
7TH	3"
6TH	2"
5TH	3"
4TH	2"
3RD	3"
2ND	2"
BOTTOM	3"



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

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DESIGN LOADS +32.7 PSF -38.4 PSF					
TEST LOADS +49.1 PSF -57.6 PSF					
LARGE MISSILE IMPACT RESISTANCE		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	FL		
					
AMARR 2432					
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AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-1009-150-15-F SHEET 3 OF 3		