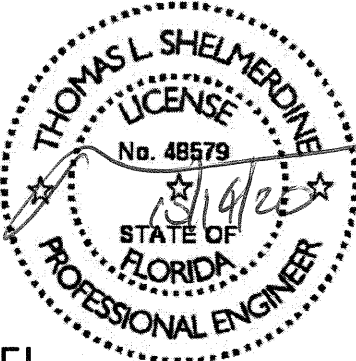
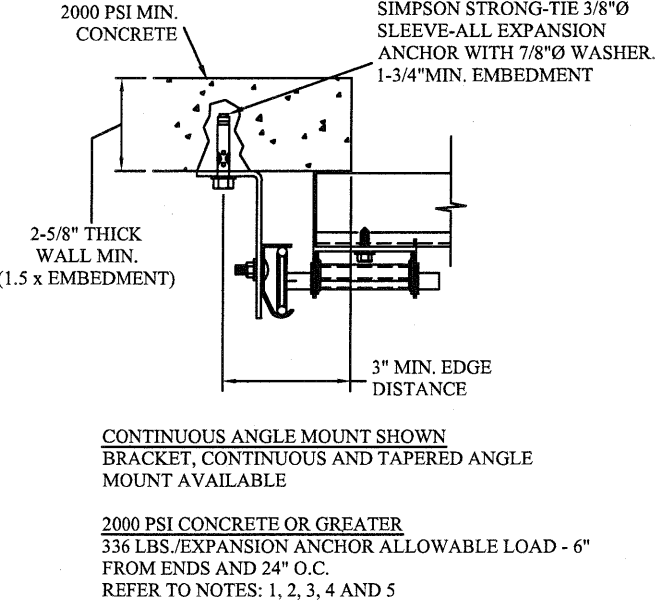
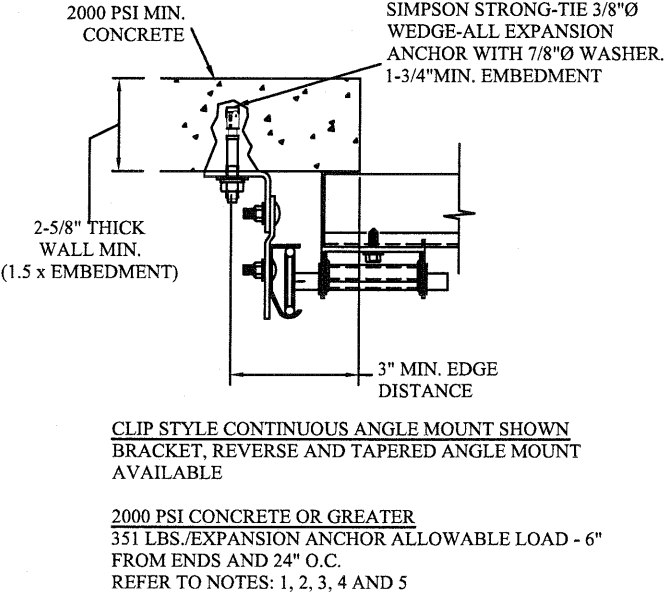
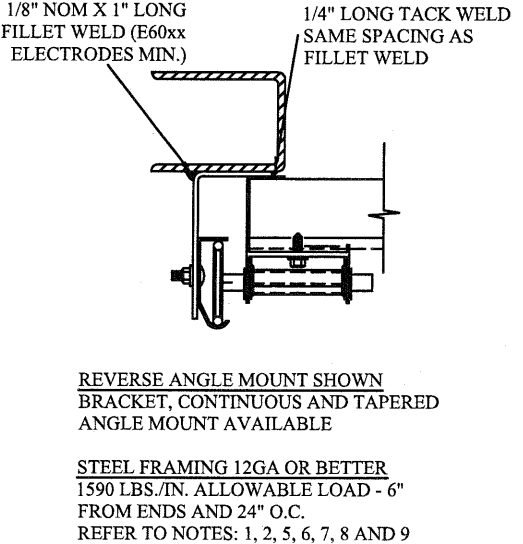
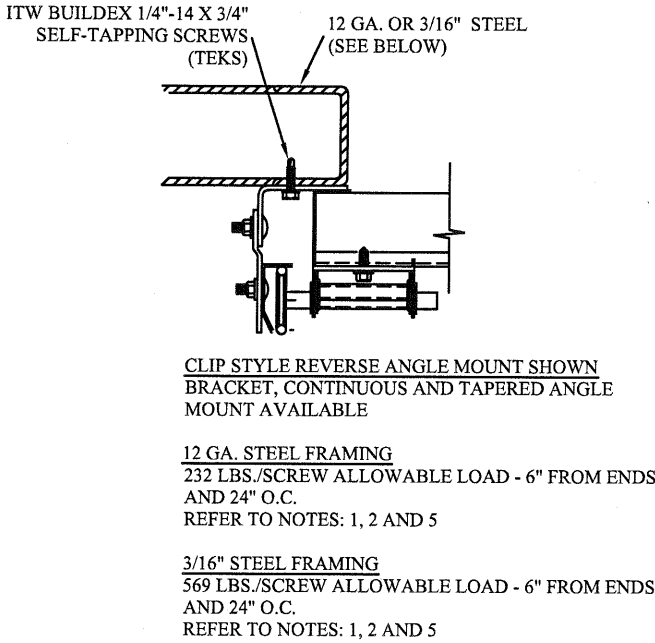


WIND SPEED (MPH)	129	117	111	106	102
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 10'2" x 20' DESIGN LOADS +14.2 PSF -16.6 PSF TEST LOADS +21.3 PSF -24.9 PSF	Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL	 Thomas L. Shelmerdine, Inc. 5921-G W. Friendly Ave. - Greensboro, NC 27410	
			
MODEL 3040			
SIZE	DRAWN BY	DLJ	DATE 10/23/19
B	CHECKED BY	DRC	DATE 10/28/19
ENTREMATICS 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-3010-100-11 SHEET 1 OF 4

TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

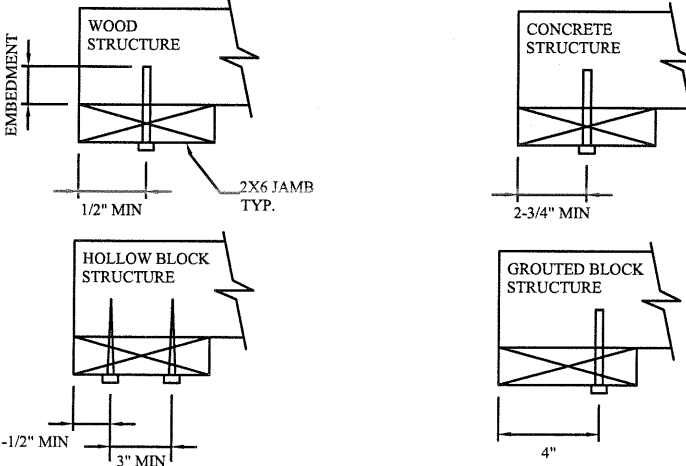
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

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)

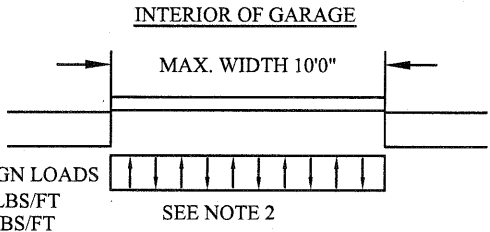
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

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



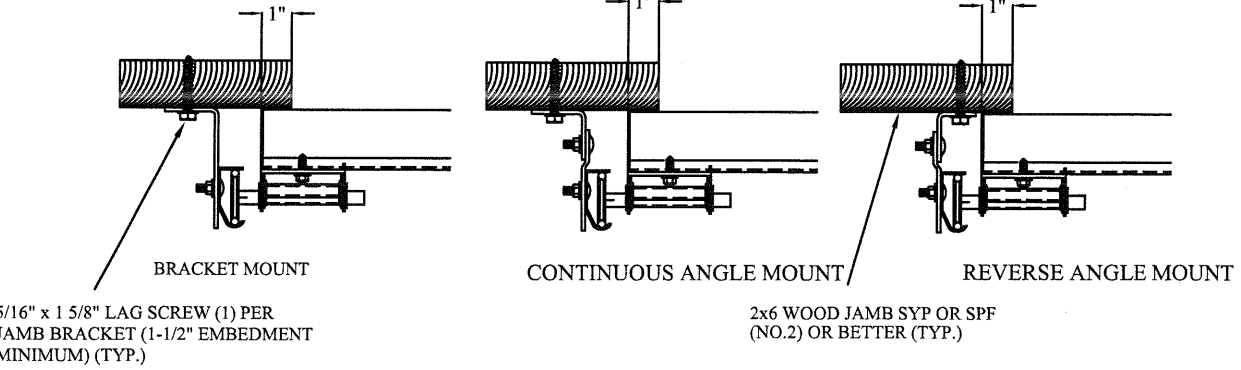
- NOTES:**
1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
 2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
 3. MIN. EGDE DISTANCE OF 3" REQUIRED.
 4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
 5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
 6. MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.
 7. ALL WELDS SHOULD BE PERFORMED BY A CERTIFIED WELDER OR INSPECTED BY A CERTIFIED WELDING INSPECTOR TO VERIFY THE INTEGRITY OF THE WELD.
 8. FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE SURFACE.
 9. TACK WELD TOE OF ANGLE AT SAME SPACING TO PREVENT ROTATION OF TRACK ANGLE.

- 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: +72.2 LBS/FT & -84.4 LBS/FT
 3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
 4. DOOR SECTIONS SHALL BE 30 GA. MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
 5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.



TRACK CONNECTION TO WOOD JAMB OPTIONS

FOR LAG SCREWS & BRACKET SPACING SEE PAGE 4 FOR TRACK CONFIGURATION DETAIL



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
10'2 x 20'

DESIGN LOADS
+14.2 PSF
-16.6 PSF

TEST LOADS
+21.3 PSF
-24.9 PSF

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

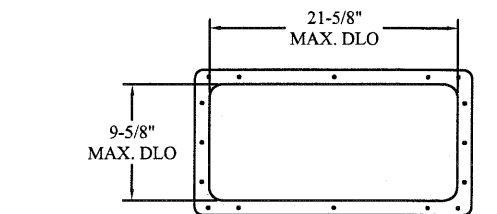
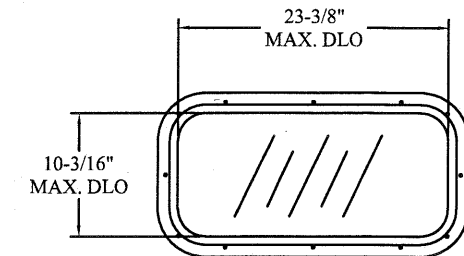
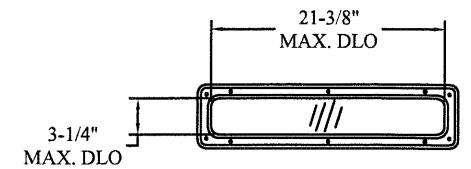
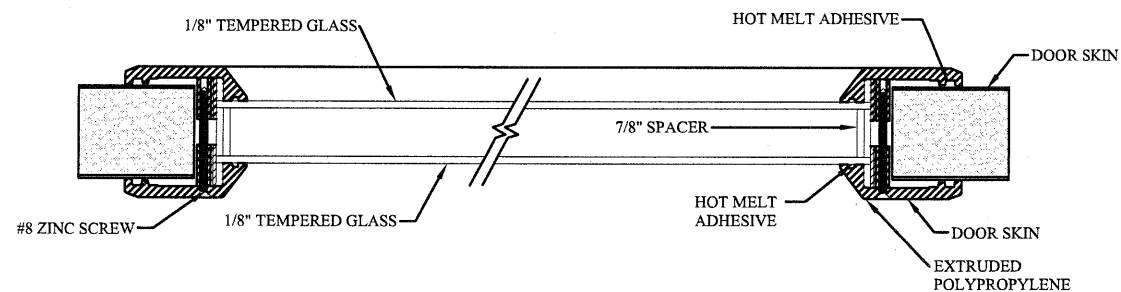
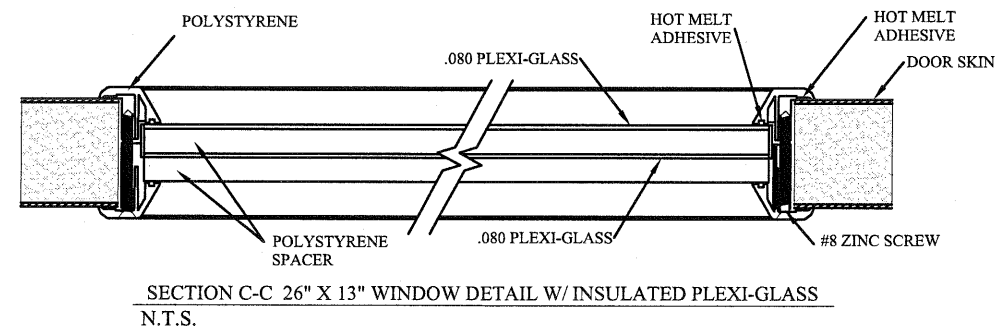
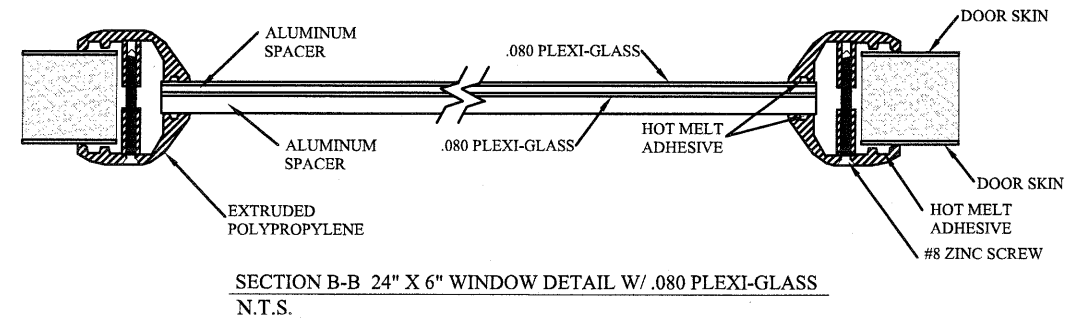
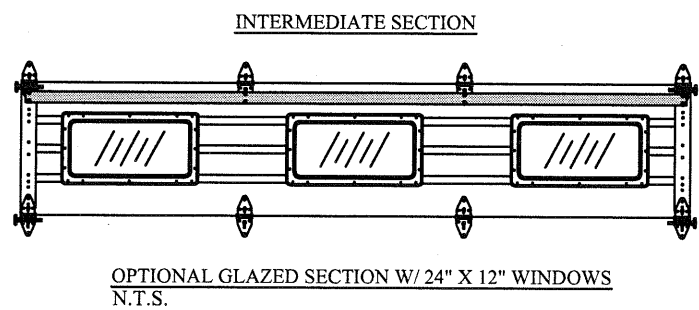
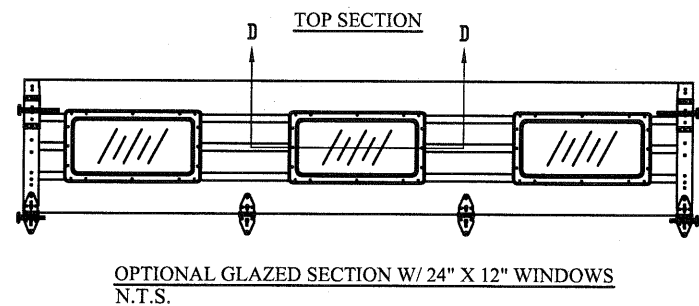
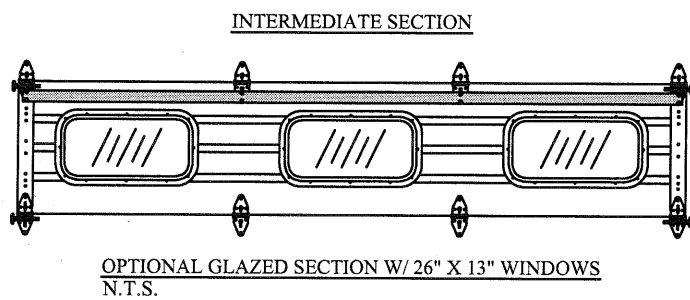
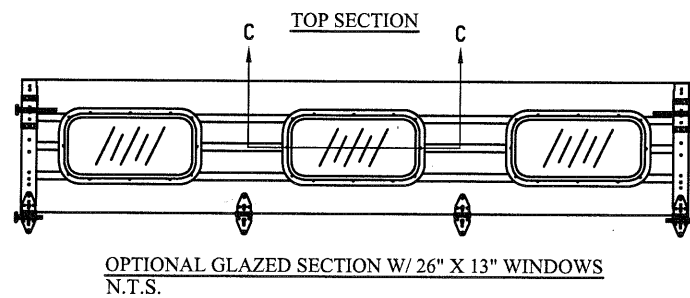
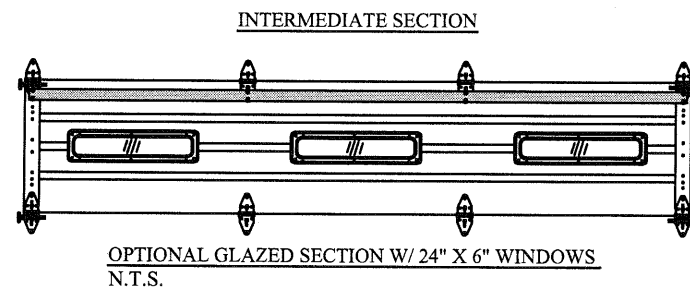
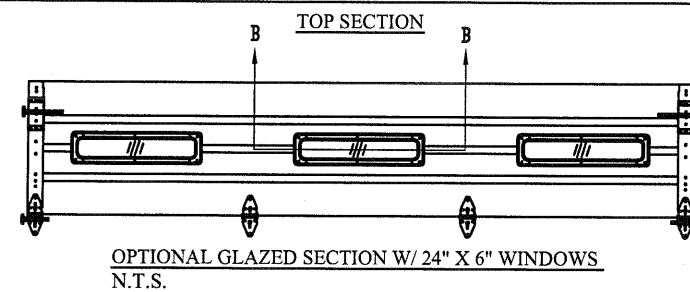
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MODEL 3040

SIZE	DRAWN BY	DLJ	DATE	10/23/19	DRAWING NUMBER
B	CHECKED BY	DRC	DATE	10/28/19	IBC-3010-100-11

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

SHEET 2 OF 4



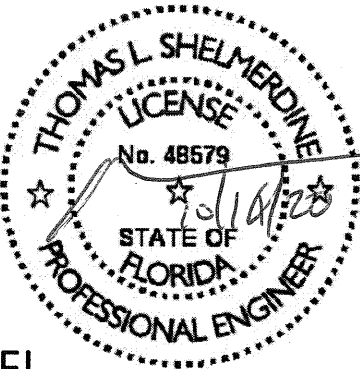
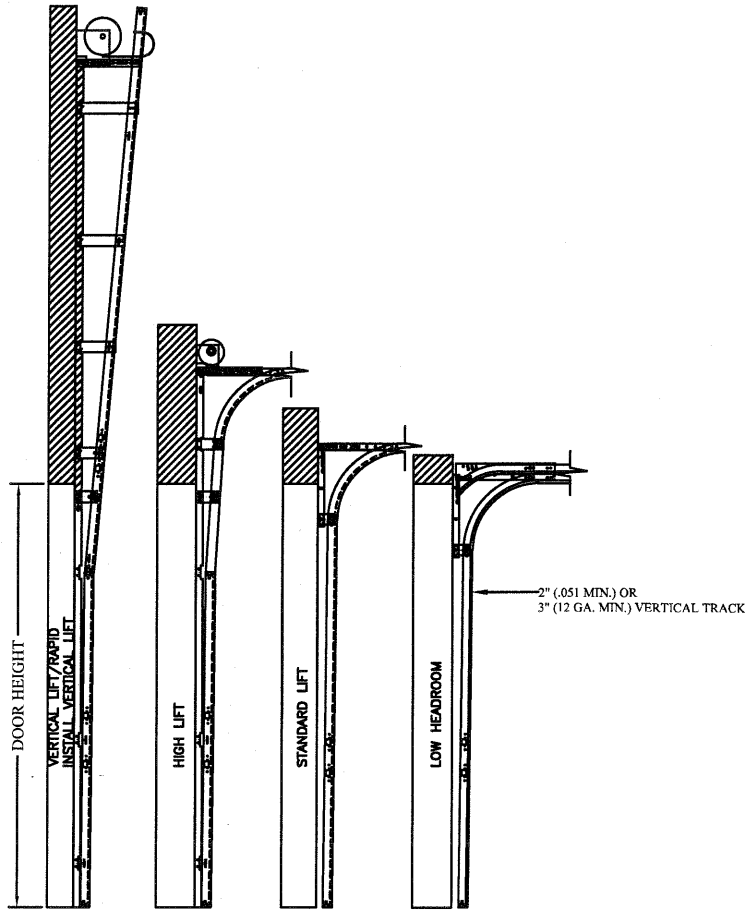
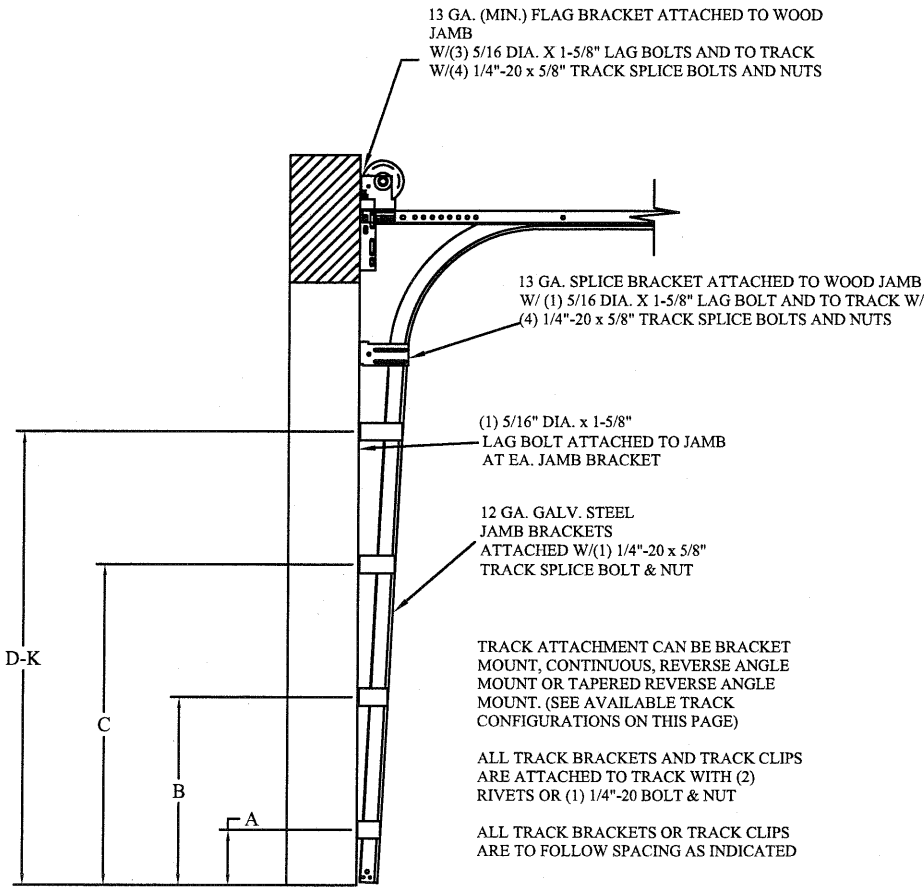
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 10'2 x 20' DESIGN LOADS +14.2 PSF -16.6 PSF TEST LOADS +21.3 PSF -24.9 PSF		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL 3040			
SIZE	DRAWN BY	DLJ	DATE 10/23/19
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ENTREMATICS 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-3010-100-11 SHEET 3 OF 4

TABLE 1

Section Width (ft)	Center Stile Locations		Max Design Loads Allowed	
	1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
6' 0"	36"	-	15.8	18.5
6' 2"	37"	-	15.4	18.0
6' 4"	38"	-	15.0	17.6
6' 6"	39"	-	14.6	17.1
6' 8"	40"	-	14.3	16.7
6' 10"	41"	-	13.9	16.3
7' 0"	42"	-	13.6	15.9
7' 2"	43"	-	13.3	15.5
7' 4"	44"	-	13.0	15.2
7' 6"	45"	-	12.7	14.8
7' 8"	46"	-	12.4	14.5
7' 10"	47"	-	12.1	14.2
8' 0"	48"	-	11.9	13.9
8' 2"	49"	-	11.6	13.6
8' 4"	50"	-	11.4	13.3
8' 6"	51"	-	11.2	13.1
8' 8"	52"	-	11.0	12.8
8' 10"	53"	-	10.7	12.6
9' 0"	54"	-	10.5	12.3
9' 2"	37"	73"	15.6	18.3
9' 4"	36"	76"	15.0	17.6
9' 6"	37"	77"	14.8	17.3
9' 8"	38"	78"	14.6	17.1
9' 10"	39"	79"	14.4	16.9
10' 0"	40"	80"	14.3	16.7
10' 2"	41"	81"	14.2	16.6

TABLE 3

SECTION	STRUT SIZE
10TH	2"
9TH	2"
8TH	2"
7TH	2"
6TH	2"
5TH	2"
4TH	2"
3RD	2"
2ND	2"
BOTTOM	2"



TRACK CONFIGURATION FOR UP TO 24' TALL DOORS
SEE TABLE 2

TABLE 2

DOOR HEIGHT	TRACK ATTACHMENT											TYPICAL SPLICE
	A	B	C	D	E	F	G	H	I	J	K	
7' 0"	10"	34"	58"									76"
7' 6"	10"	34"	58"									82"
8' 0"	10"	34"	58"									88"
8' 6"	10"	34"	58"	82"								94"
9' 0"	10"	34"	58"	82"								100"
9' 6"	10"	34"	58"	82"								106"
10' 0"	10"	34"	58"	82"								112"
11' 0"	10"	34"	58"	82"	106"							124"
12' 0"	10"	34"	58"	82"	106"							136"
13' 0"	10"	34"	58"	82"	106"	130"						148"
14' 0"	10"	34"	58"	82"	106"	130"						160"
15' 0"	10"	34"	58"	82"	106"	130"	154"					172"
16' 0"	10"	34"	58"	82"	106"	130"	154"					184"
17' 0"	10"	34"	58"	82"	106"	130"	154"	178"				196"
18' 0"	10"	34"	58"	82"	106"	130"	154"	178"				208"
19' 0"	10"	34"	58"	82"	106"	130"	154"	178"	202"			220"
20' 0"	10"	34"	58"	82"	106"	130"	154"	178"	202"			232"
21' 0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"		244"
22' 0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"		256"
23' 0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	268"
24' 0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	280"

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

REVDESCRIPTION OF REVISIONSDATEBY

MAX SIZE
10'2 x 20'

DESIGN LOADS
+14.2 PSF
-16.6 PSF

TEST LOADS
+21.3 PSF
-24.9 PSF

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MODEL 3040

SIZE
B

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DRC

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SHEET 4 OF 4