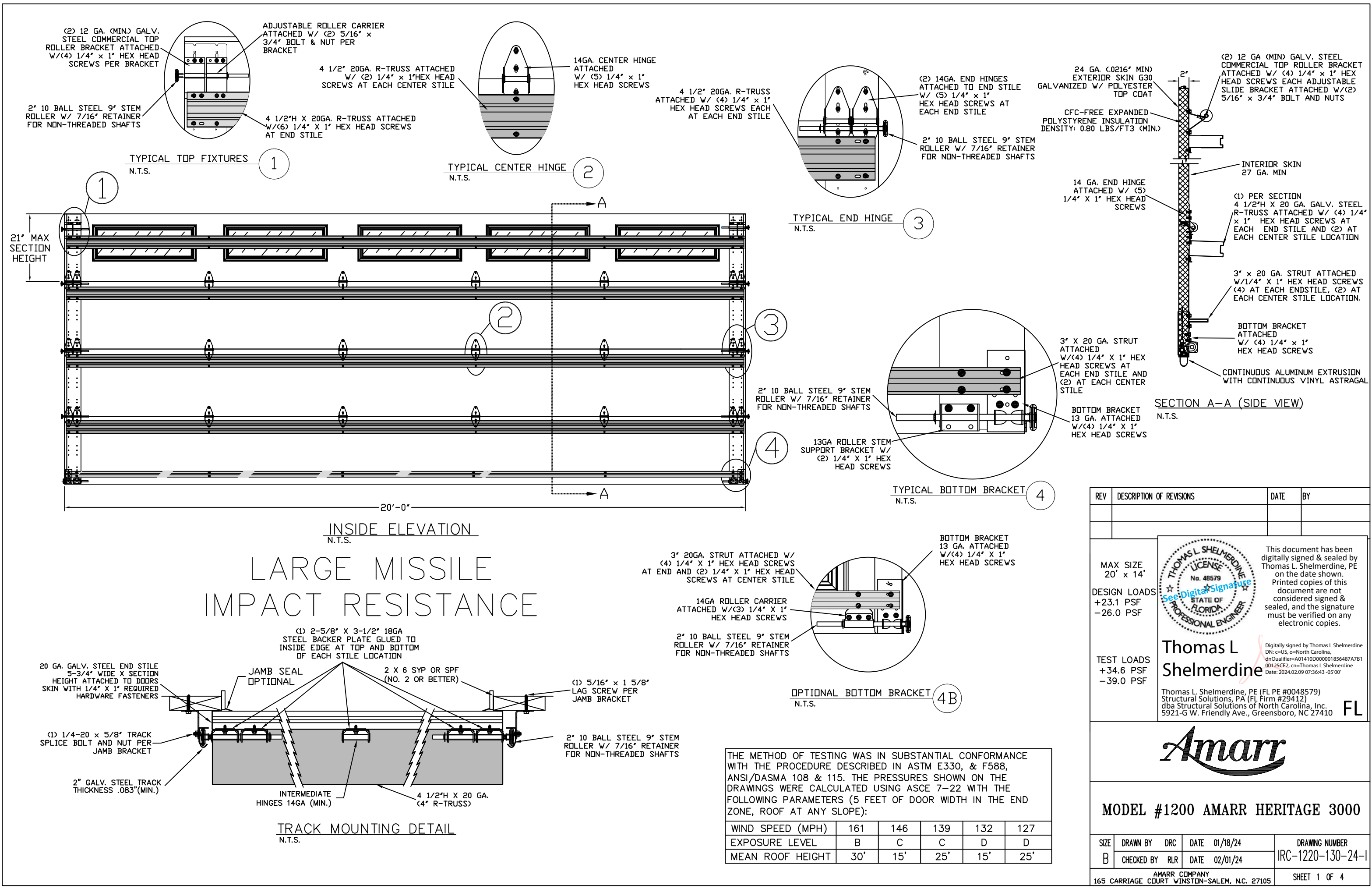




LARGE MISSILE IMPACT RESISTANCE

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, & F588, ANSI/DASMA 108 & 115. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-22 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	161	146	139	132	127
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
20' x 14'

DESIGN LOADS
+23.1 PSF
-26.0 PSF

TEST LOADS
+34.6 PSF
-39.0 PSF

THOMAS L. SHELMERDINE
No. 48579
See Digital Signature
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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DN: c=US, o=North Carolina, dnQualifier=A01410D000001856487A7B100125CE2, cn=Thomas L. Shelmerdine
Date: 2024.02.09 07:36:43 -05'00'

Thomas L. Shelmerdine
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FL

Amarr

MODEL #1200 AMARR HERITAGE 3000

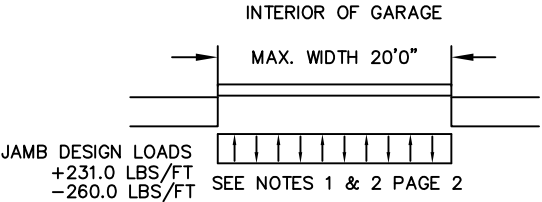
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B	CHECKED BY	RLR	DATE	02/01/24	IRC-1220-130-24-1

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

SHEET 1 OF 4

SPECIFICATIONS AND NOTES

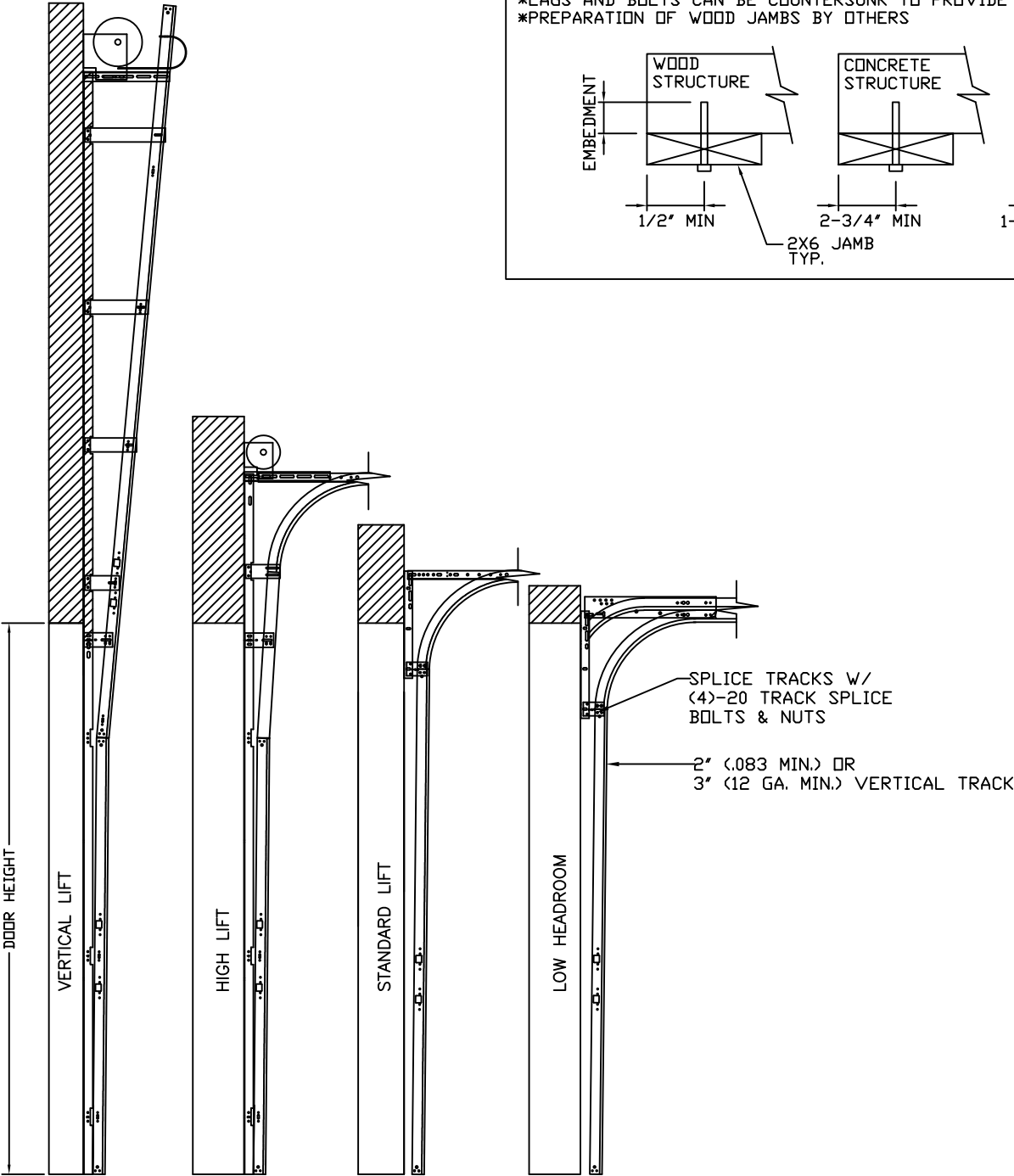
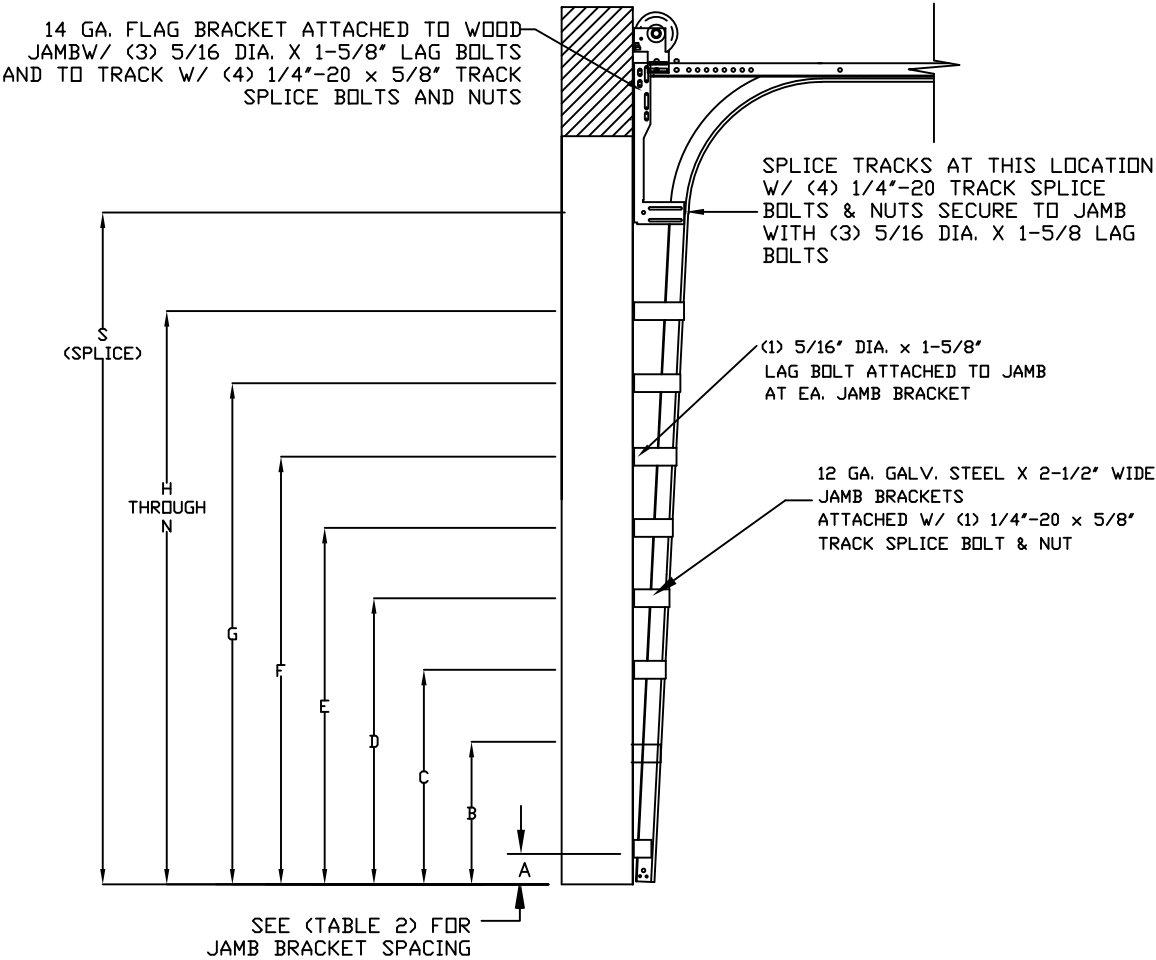
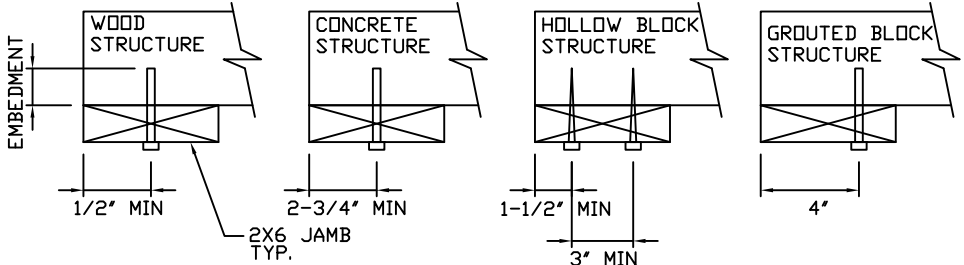
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +231.0 LBS/FT & -260.0 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.0216) 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.
6. DOORS OVER (4) SECTIONS REFER TABLES ON PAGE 4



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 20" 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 18" 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 22" 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



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

AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
20' x 14'

DESIGN LOADS
+23.1 PSF
-26.0 PSF

TEST LOADS
+34.6 PSF
-39.0 PSF

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FL

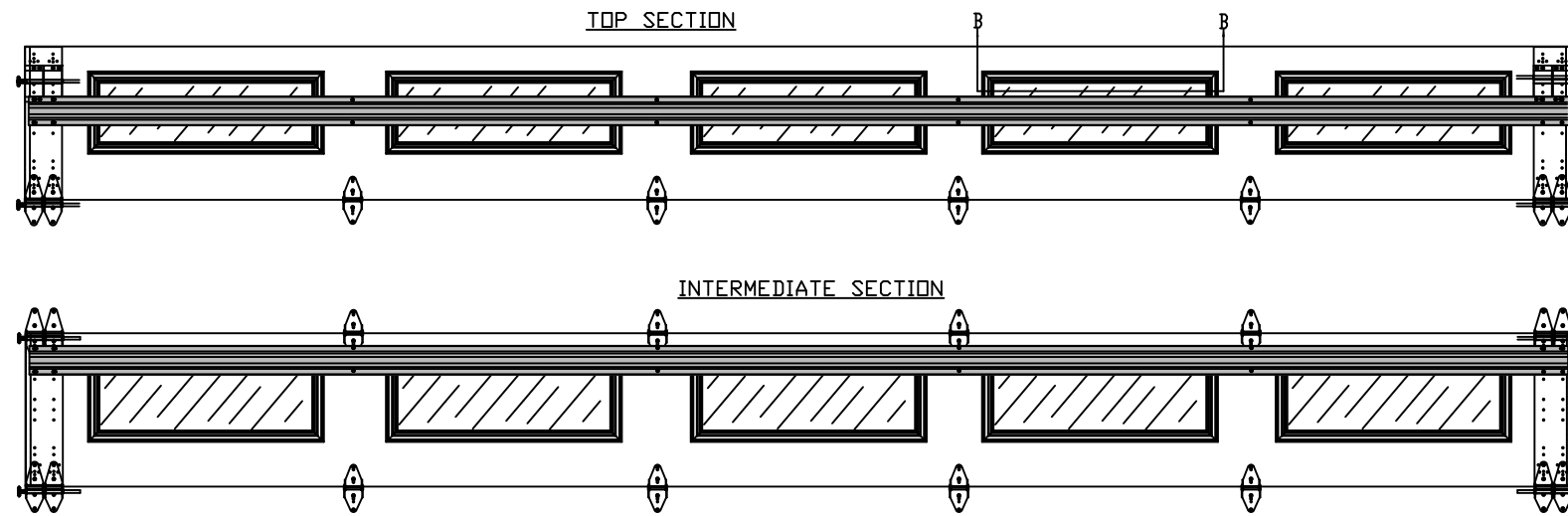
Amarr

MODEL #1200 AMARR HERITAGE 3000

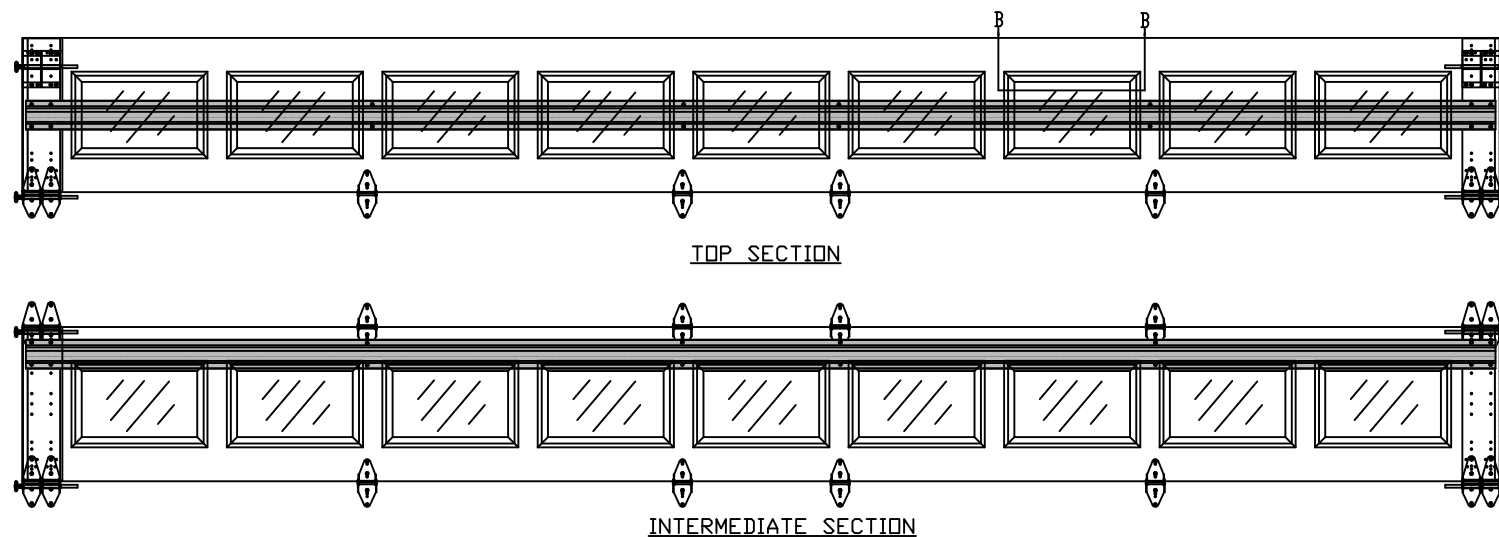
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B	CHECKED BY	RLR	DATE	02/01/24	IRC-1220-130-24-1

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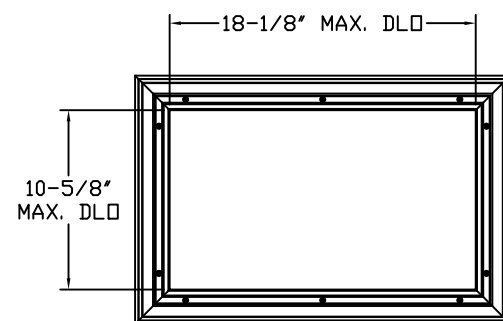
SHEET 2 OF 4



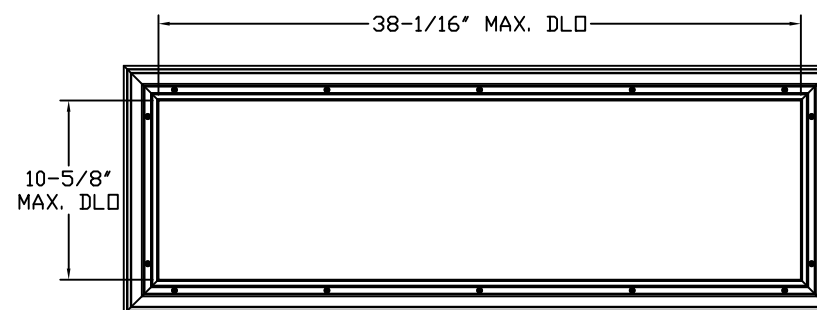
OPTIONAL LONG PANEL GLAZED SECTION R-TRUSS AND STILE LAYOUT
N.T.S.



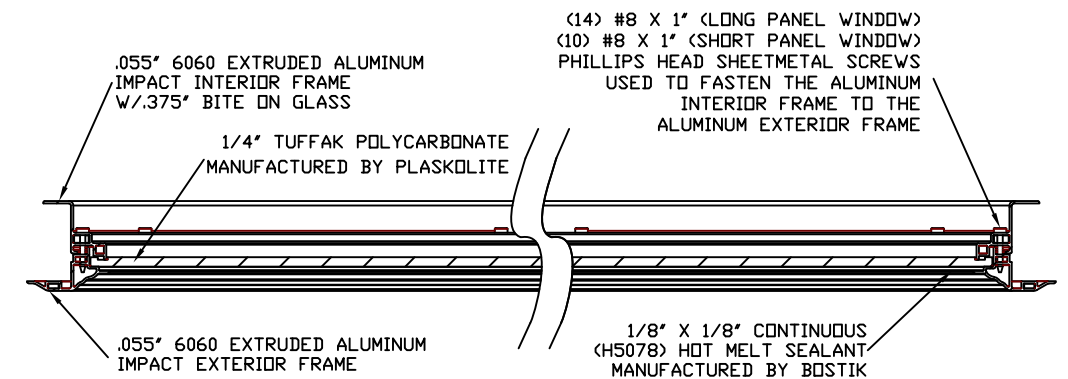
OPTIONAL SHORT PANEL GLAZED SECTION R-TRUSS AND STILE LAYOUT
N.T.S. *19'-0" WIDE SECTION SHOWN



SHORT PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



LONG PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



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

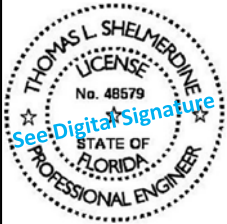
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 20' x 14' DESIGN LOADS +23.1 PSF -26.0 PSF TEST LOADS +34.6 PSF -39.0 PSF	 This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies.		
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	FL		
			
MODEL #1200 AMARR HERITAGE 3000			
SIZE	DRAWN BY DRC	DATE 01/18/24	DRAWING NUMBER
B	CHECKED BY RLR	DATE 02/01/24	IRC-1220-130-24-1
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 3 OF 4

TABLE 1

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"				

TABLE 2

DOOR HEIGHT		TRACK ATTACHMENT														TYPICAL SPLICE
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	
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 NO. 2 OR BETTER ONLY

TABLE 3

SECTION	STRUT SIZE
TOP	
	4.5"
7TH	4.5"
6TH	4.5"
5TH	4.5"
4TH	4.5"
3RD	4.5"
2ND	4.5"
BOTTOM	4.5"
	3"

TABLE 4

Section	Panel Type	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)
18' 2	Short	50.590	97.318	120.682	167.410	22.9	25.8
18' 2	Long	57.340	109.000	160.660		20.5	23.0
18' 4	Short	51.590	98.318	121.682	168.410	22.7	25.5
18' 4	Long	45.218	88.406	131.594	174.782	25.1	28.2
18' 6	Short	52.590	99.318	122.682	169.410	22.5	25.3
18' 6	Long	45.900	89.300	132.700	176.100	24.8	28.0
18' 8	Short	51.175	99.835	124.165	172.825	22.4	25.2
18' 8	Long	46.900	90.300	133.700	177.100	24.6	27.7
18' 10	Short	52.175	100.835	125.165	173.825	22.1	24.9
18' 10	Long	47.900	91.300	134.700	178.100	24.4	27.5
19' 0	Short	53.175	101.835	126.165	174.825	21.9	24.7
19' 0	Long	48.900	92.300	135.700	179.100	24.2	27.2
19' 2	Short	53.125	102.625	127.375	176.875	21.7	24.5
19' 2	Long	47.875	92.625	137.375	182.125	24.0	27.0
19' 4	Short	53.500	103.500	128.500	178.500	21.6	24.3
19' 4	Long	47.900	93.300	138.700	184.100	23.8	26.8
19' 6	Short	54.500	104.500	129.500	179.500	21.4	24.0
19' 6	Long	48.900	94.300	139.700	185.100	23.6	26.5
19' 8	Short	48.436	94.812	141.188	187.564	23.4	26.3
19' 8	Long	49.250	95.083	140.916	186.750	23.4	26.3
19' 10	Short	48.908	95.636	142.364	189.092	23.2	26.1
19' 10	Long	50.250	96.083	141.916	187.750	23.2	26.1
20' 0	Short	49.908	96.636	143.364	190.092	23.1	26.0
20' 0	Long	51.250	97.083	142.916	188.750	23.1	26.0

SHORT PANEL GLAZING NOT AVAILABLE IN HIGHLIGHTED SIZES

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MAX SIZE 20' x 14' DESIGN LOADS +23.1 PSF -26.0 PSF TEST LOADS +34.6 PSF -39.0 PSF		THOMAS L. SHELMERDINE LICENSE No. 48579 See Digital Signature STATE OF FLORIDA PROFESSIONAL ENGINEER 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.	
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