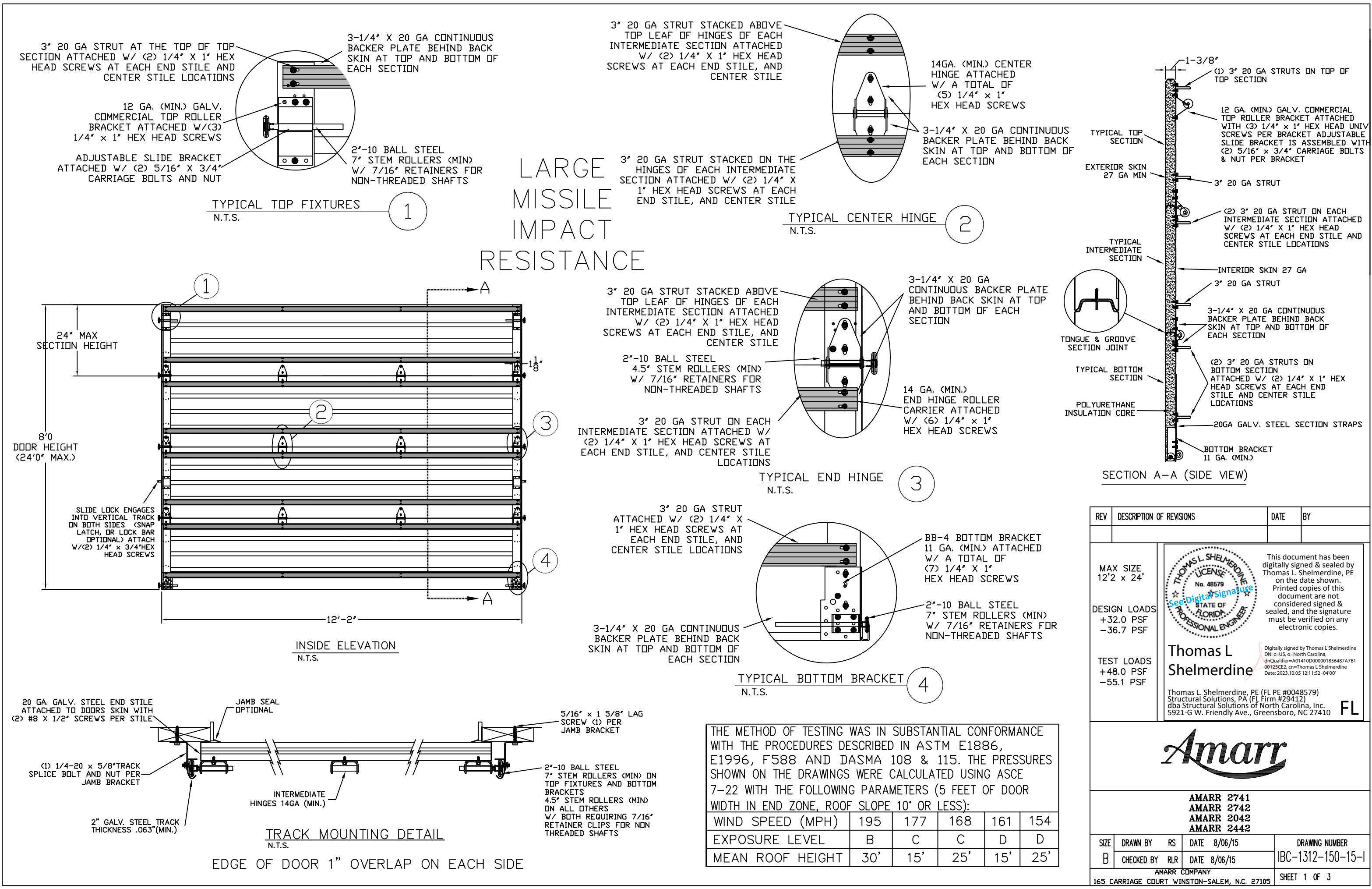




REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
12'2" x 24'

DESIGN LOADS
+32.0 PSF
-36.7 PSF

TEST LOADS
+48.0 PSF
-55.1 PSF

Thomas L. Shelmerdine
FL

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DN: c=US, o=North Carolina, dnQualifier=A01410D000001856487A7B100125CE2, cn=Thomas L. Shelmerdine
Date: 2023.10.05 12:11:52 -04'00'

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

AMARR 2741
AMARR 2742
AMARR 2042
AMARR 2442

SIZE	DRAWN BY	RS	DATE	8/06/15	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	8/06/15	IBC-1312-150-15-1

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

SHEET 1 OF 3

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

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

The diagram shows a cross-section of a fillet weld joint. Two plates are joined at a 90-degree angle. A fillet weld is applied to the outer corner, and a tack weld is applied to the inner corner. The fillet weld is labeled with dimensions and electrode type. The tack weld is labeled with its length and spacing requirement. A mechanical assembly, possibly a welding fixture, is shown below the joint.

2000 PSI MIN. CONCRETE

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

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

3" MIN. EDGE DISTANCE

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

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: +194.7 LBS/FT & -223.3 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA. (.015) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 24'0" HIGH WILL HAVE TWO (2) 3" 20GA STRUTS 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.

The technical drawings illustrate the required embedment and spacing of 2x6 jamb type fasteners in two different structural materials:

- WOOD STRUCTURE:** The drawing shows a cross-section of a wood structure with a 2x6 jamb type fastener. The embedment depth is indicated by three arrows and labeled "EMBEDMENT". The spacing between fasteners is indicated by a double-headed arrow and labeled "1/2" MIN".
- HOLLOW BLOCK STRUCTURE:** The drawing shows a cross-section of a hollow block structure with two 2x6 jamb type fasteners. The embedment depth is indicated by two arrows and labeled "EMBEDMENT". The spacing between fasteners is indicated by a double-headed arrow and labeled "1-1/2" MIN". The distance from the edge of the structure to the first fastener is indicated by a double-headed arrow and labeled "2" MIN".

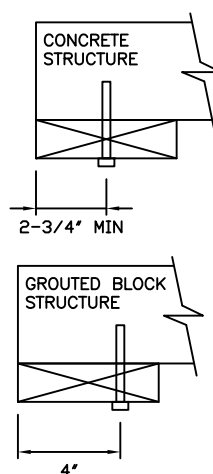


Diagram illustrating a bracket mount. A horizontal line represents the bracket, with a vertical line indicating a 1" dimension. A label "BRACKET MOUNT" points to the assembly.

Diagram illustrating a Continuous Angle Mount. The diagram shows a spring-mounted bracket assembly with a vertical travel dimension of 1".

Diagram illustrating the interior of a garage. The width is labeled as "MAX. WIDTH 12'0\"". Below the width, there are arrows pointing downwards, labeled "SEE NOTE 2".

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 12'2 x 24' DESIGN LOADS +32.0 PSF -36.7 PSF TEST LOADS +48.0 PSF -55.1 PSF	 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. FL		
			
AMARR 2741 AMARR 2742 AMARR 2042 AMARR 2442			
SIZE B	DRAWN BY RS	DATE 8/06/15	DRAWING NUMBER IBC-1312-150-15-1
	CHECKED BY RLR	DATE 8/06/15	
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, NC 27105			SHEET 2 OF 3

TABLE 1

Section Width (ft)		Center Stile Locations		Max Design Loads Allowed	
		1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
9'	4"	36"	76"	40.6	46.6
9'	6"	37"	77"	40.1	46.0
9'	8"	38"	78"	39.5	45.4
9'	10"	39"	79"	39.0	44.8
10'	0"	40"	80"	38.6	44.2
10'	2"	41"	81"	38.1	43.7
10'	4"	42"	82"	37.4	42.9
10'	6"	43"	83"	36.8	42.3
10'	8"	44"	84"	36.3	41.6
10'	10"	45"	85"	35.7	41.0
11'	0"	46"	86"	35.2	40.3
11'	2"	47"	87"	34.6	39.7
11'	4"	48"	88"	34.1	39.2
11'	6"	49"	89"	33.6	38.6
11'	8"	50"	90"	33.2	38.0
11'	10"	51"	91"	32.7	37.5
12'	0"	48"	96"	32.1	36.8
12'	2"	49"	97"	32.0	36.7

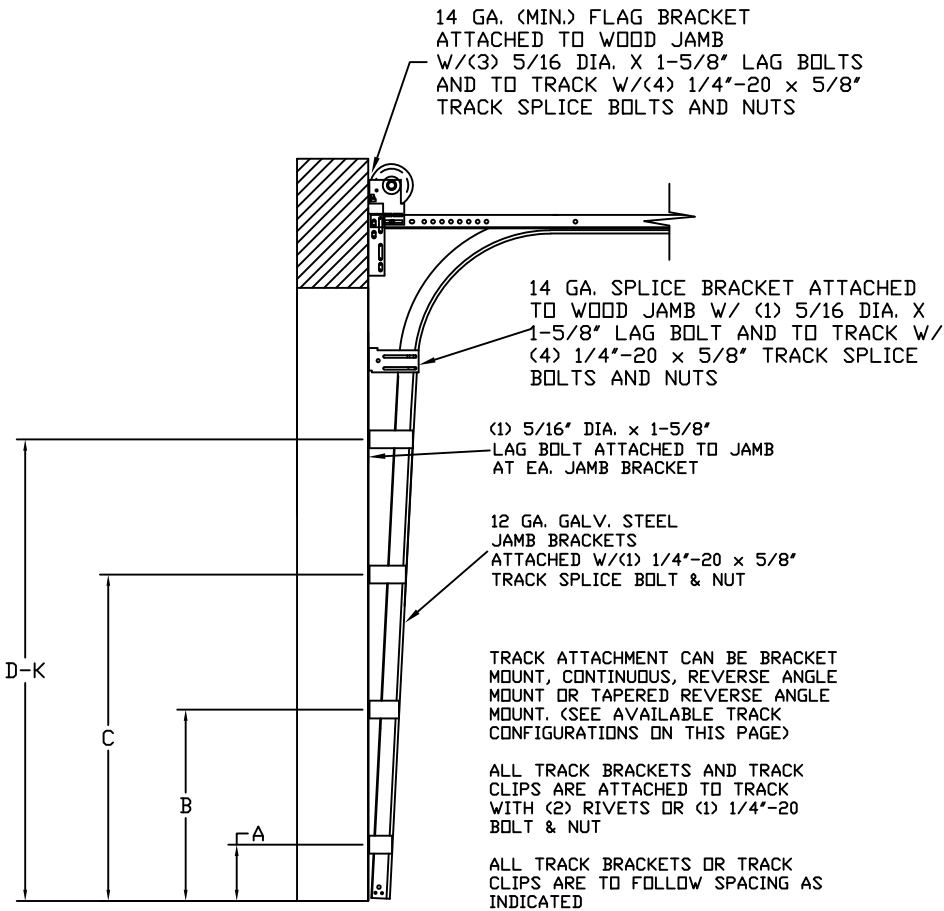
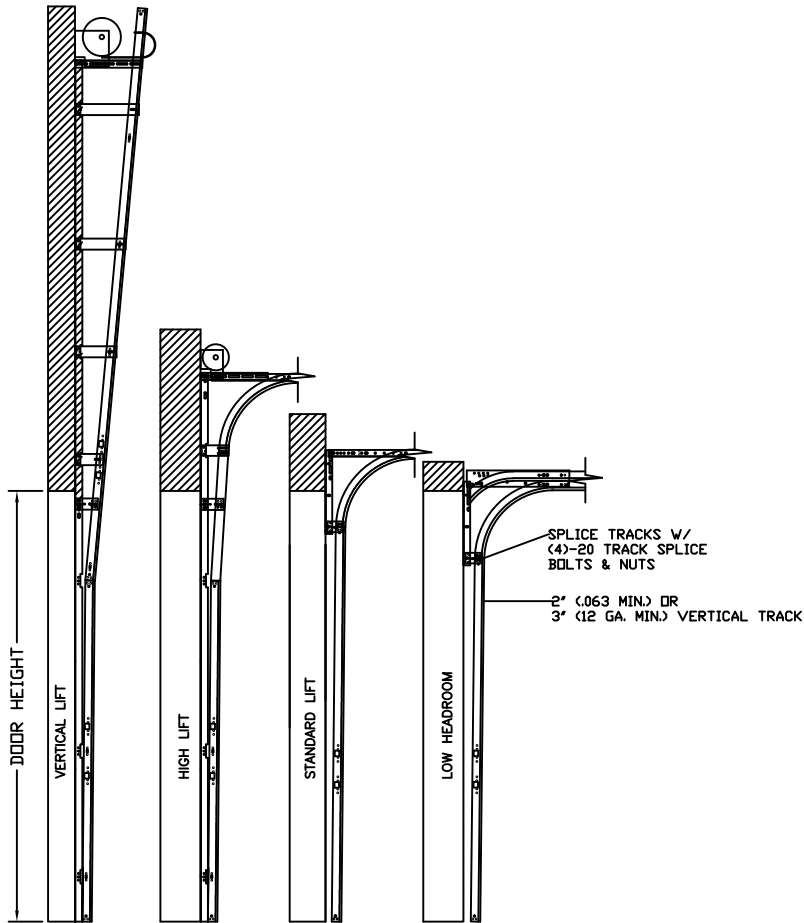


TABLE 2

DOOR HEIGHT		TRACK ATTACHMENT																TYPICAL SPLICE
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
7'	0"	3.5"	22"	34"	58"	70"												76"
7'	6"	3.5"	22"	34"	58"	70"												82"
8'	0"	3.5"	22"	34"	58"	70"												88"
8'	6"	3.5"	22"	34"	58"	70"												94"
9'	0"	3.5"	22"	34"	58"	70"	94"											100"
9'	6"	3.5"	22"	34"	58"	70"	94"											106"
10'	0"	3.5"	22"	34"	58"	70"	94"	106"										112"
11'	0"	3.5"	22"	34"	58"	70"	94"	106"										124"
12'	0"	3.5"	22"	34"	58"	70"	94"	106"	130"									136"
13'	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"								148"
14'	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"								160"
15'	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"	166"							172"
16'	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"	166"	178"						184"
17'	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"	166"	178"						196"
18'	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"	166"	178"	202"					208"
19'	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"	166"	178"	202"	214"				220"
20'	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"	166"	178"	202"	214"				232"
21	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"	166"	178"	202"	214"	238"			244"
22	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"	166"	178"	202"	214"	238"	250"		256"
23	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"	166"	178"	202"	214"	238"	250"		268"
24	0"	3.5"	22"	34"	58"	70"	94"	106"	130"	142"	166"	178"	202"	214"	238"	250"	274"	280"

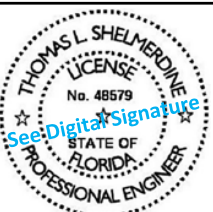
ALL TRACK ATTACHMENTS +/- 2" ALLOWED USING SYP OR SPF NO.2 OR BETTER ONLY
AMARR 2741 ONLY AVAILABLE UP TO 14'



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 3

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

REV	DESCRIPTION OF REVISIONS	DATE	BY		
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DESIGN LOADS +32.0 PSF -36.7 PSF					
TEST LOADS +48.0 PSF -55.1 PSF		FL			
					
AMARR 2741 AMARR 2742 AMARR 2042 AMARR 2442					
SIZE	DRAWN BY RS	DATE 8/06/15	DRAWING NUMBER		
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AMARR COMPANY			SHEET 3 OF 3		
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					

AMARR 2741 ONLY AVAILABLE UP TO 14'