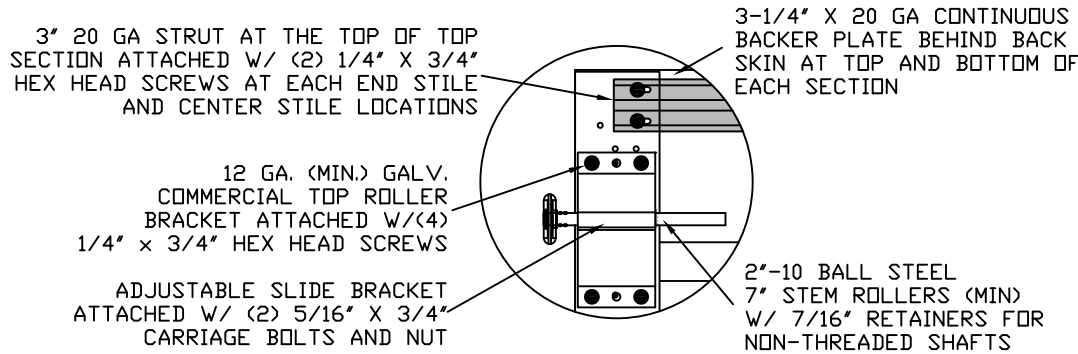
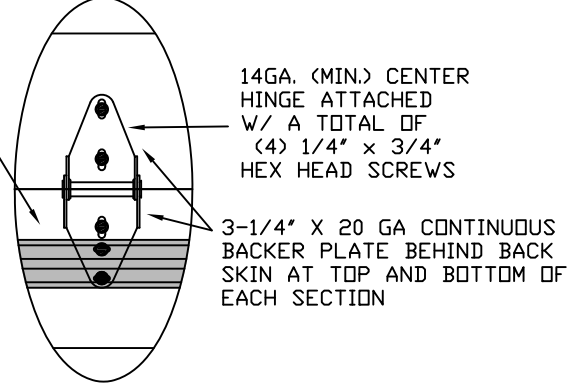




TYPICAL TOP FIXTURES
N.T.S. 1

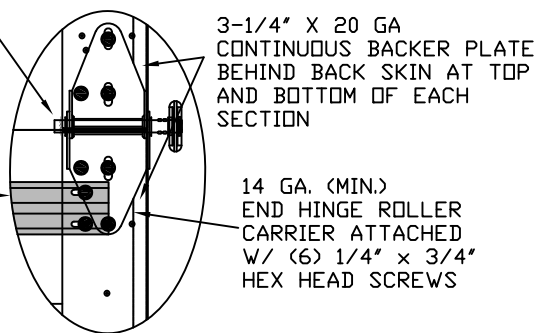
3' 20 GA STRUT STACKED ON THE HINGES OF EACH INTERMEDIATE SECTION ATTACHED W/ (2) 1/4\"/>



TYPICAL CENTER HINGE
N.T.S. 2

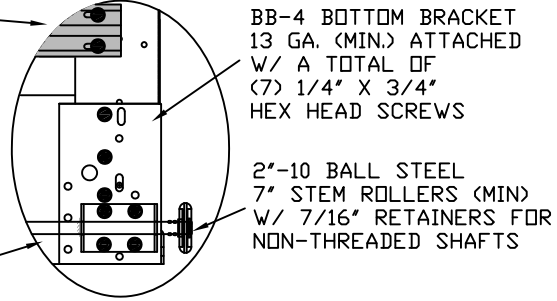
LARGE MISSILE IMPACT RESISTANCE

2'-10 BALL STEEL 4\"/>

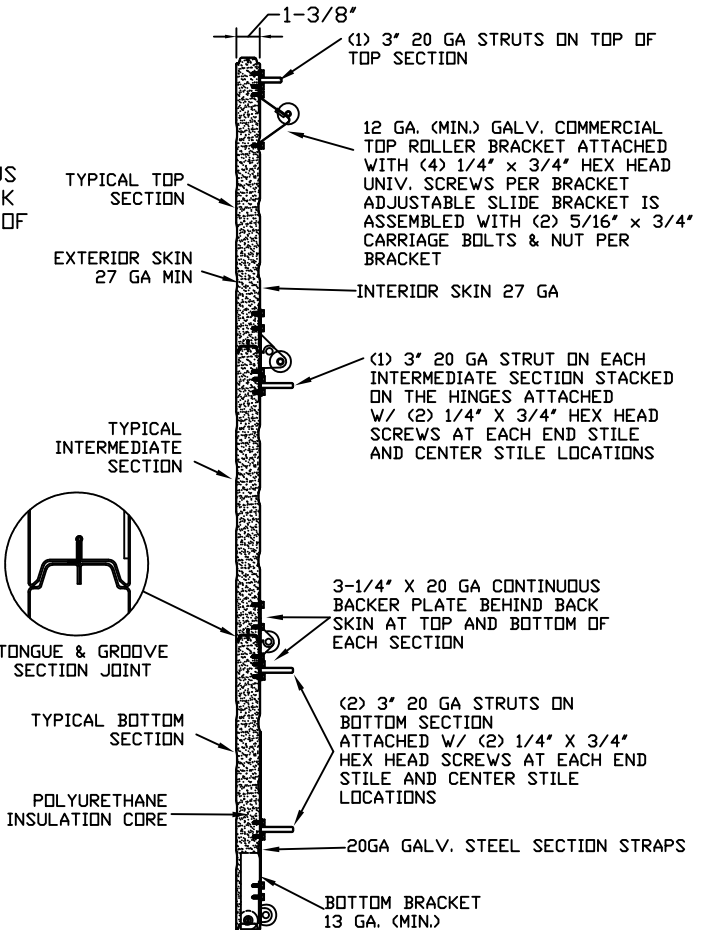


TYPICAL END HINGE
N.T.S. 3

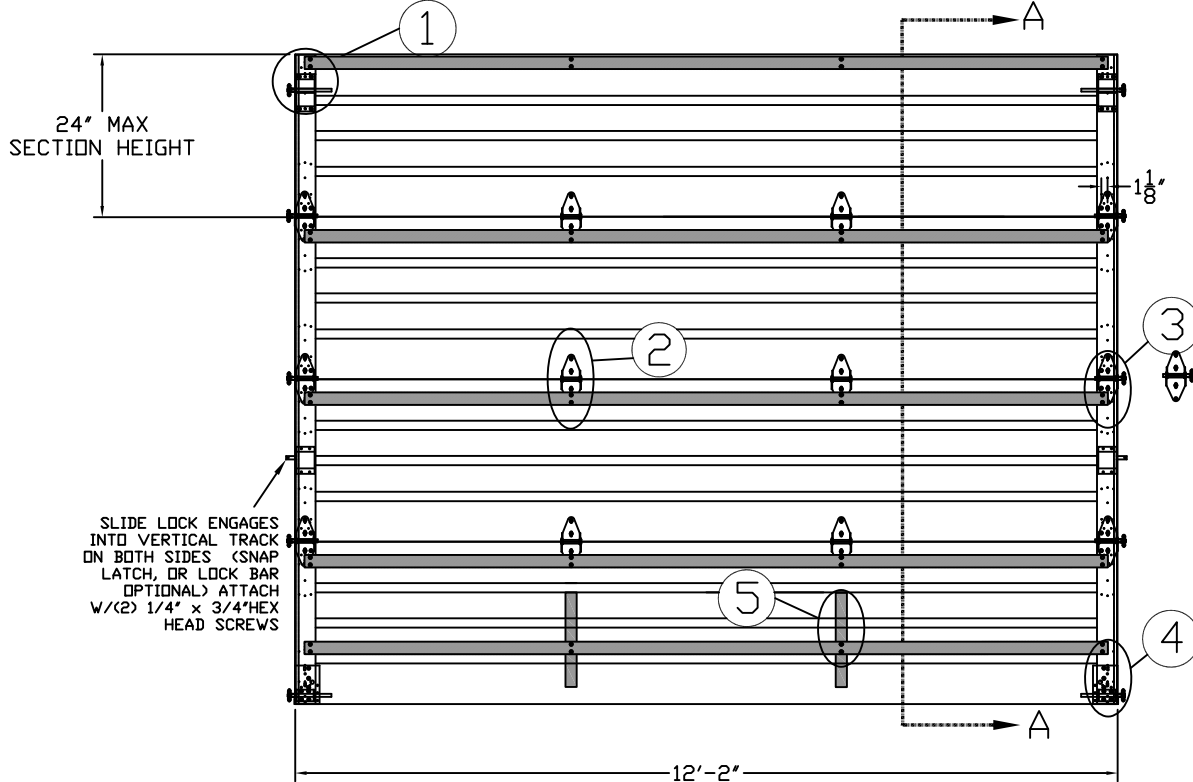
3' 20 GA STRUT ATTACHED W/ (2) 1/4\"/>



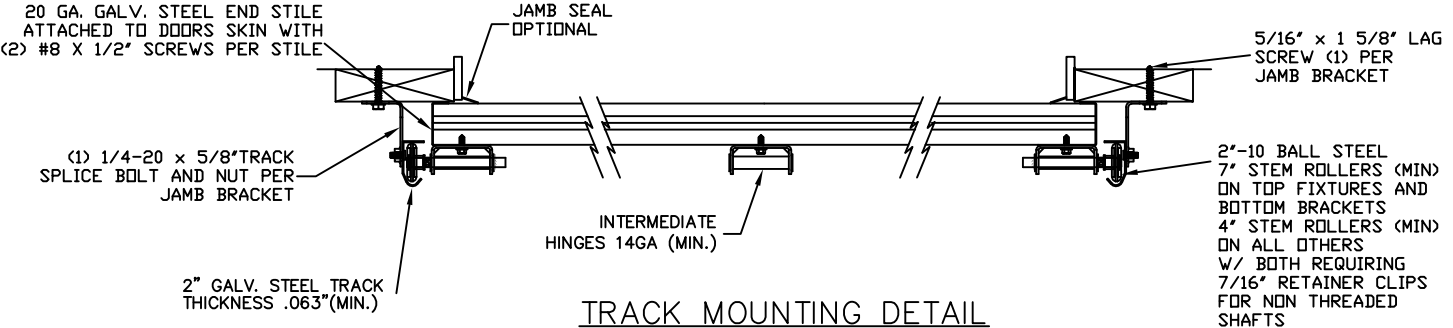
TYPICAL BOTTOM BRACKET
N.T.S. 4



SECTION A-A (SIDE VIEW)



INSIDE ELEVATION
N.T.S.



TRACK MOUNTING DETAIL
N.T.S.

EDGE OF DOOR 1\"/>

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN, ANSI/DASMA 108 & 115, ASTM E1886, ASTM E1996 AND ASTM F588. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-22 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10\"/>

WIND SPEED (MPH)	168	152	145	138	133
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
12'2" x 24'
DESIGN LOADS
+23.8 PSF
-27.3 PSF
TEST LOADS
+35.7 PSF
-41.0 PSF
LARGE MISSILE
IMPACT
RESISTANCE

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.

Digitally signed by Thomas L. Shelmerdine
DN: c=US, o=North Carolina,
dnQualifier=A01410D000001856487A7B100
125CE2, cn=Thomas L. Shelmerdine
Date: 2023.10.05 11:19:20 -04'00'

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

FL

Amarr

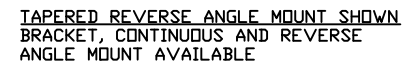
AMARR 2741
AMARR 2742
AMARR 2042
AMARR 2442

SIZE B	DRAWN BY RLR	DATE 05/18/12	DRAWING NUMBER IBC-1312-130-15-1
CHECKED BY			DATE
AMARR COMPANY			SHEET 1 OF 3

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



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



STEEL FRAMING 12GA OR GREATER
1590 LBS/IN ALLOWABLE LOAD - 6" FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 5, 6, 7, 8 AND 9



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



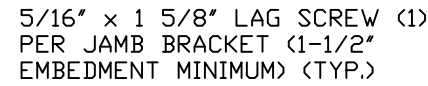
AVAILABLE TRACK CONFIGURATIONS
N.T.S.

- 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. EDGE 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.



REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 12'2" x 24' DESIGN LOADS +23.8 PSF -27.3 PSF TEST LOADS +35.7 PSF -41.0 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 2741 AMARR 2742 AMARR 2042 AMARR 2442			
SIZE	DRAWN BY	RLR	DATE 05/18/12
B	CHECKED BY		
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-1312-130-15-1 SHEET 2 OF 3

FOR LAG SCREWS & BRACKET SPACING SEE SHEET 2 TRACK CONFIGURATION DETAIL



Section Width (ft)		Center Stile Locations (Measured from Left Edge)		Max Design Loads Allowed	
		1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
9'	2"	37.000	73.000	31.3	35.9
9'	4"	36.000	76.000	32.2	35.4
9'	6"	37.000	77.000	31.3	34.7
9'	8"	38.000	78.000	30.5	34.1
9'	10"	39.000	79.000	29.7	33.6
10'	0"	40.000	80.000	29.0	33.0
10'	2"	41.000	81.000	28.3	32.4
10'	4"	42.000	82.000	27.6	31.6
10'	6"	43.000	83.000	26.9	30.9
10'	8"	44.000	84.000	26.3	30.2
10'	10"	45.000	85.000	25.7	29.5
11'	0"	46.000	86.000	25.2	28.9
11'	2"	47.000	87.000	24.6	28.3
11'	4"	48.000	88.000	24.1	27.7
11'	6"	49.000	89.000	23.6	27.1
11'	8"	50.000	90.000	23.2	26.6
11'	10"	51.000	91.000	22.7	26.0
12'	0"	48.000	96.000	24.1	27.5
12'	2"	49.000	97.000	23.8	27.3

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"

WOOD STRUCTURE

CONCRETE STRUCTURE

HOLLOW BLOCK STRUCTURE

GROUTED BLOCK STRUCTURE

EMBEDMENT

1 1/2" MIN

2-3/4" MIN

1-1/2" MIN

4"

2X6 JAMB TYP.

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 12'2" x 24' DESIGN LOADS +23.8 PSF -27.3 PSF TEST LOADS +35.7 PSF -41.0 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	
			
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SIZE	DRAWN BY	RLR	DATE 05/18/12
B	CHECKED BY		DATE
AMARR COMPANY			DRAWING NUMBER
165 CARRIAGE COURT WINSTON-SALEM, NC 27105			IBC-1312-130-15-1
			SHEET 3 OF 3