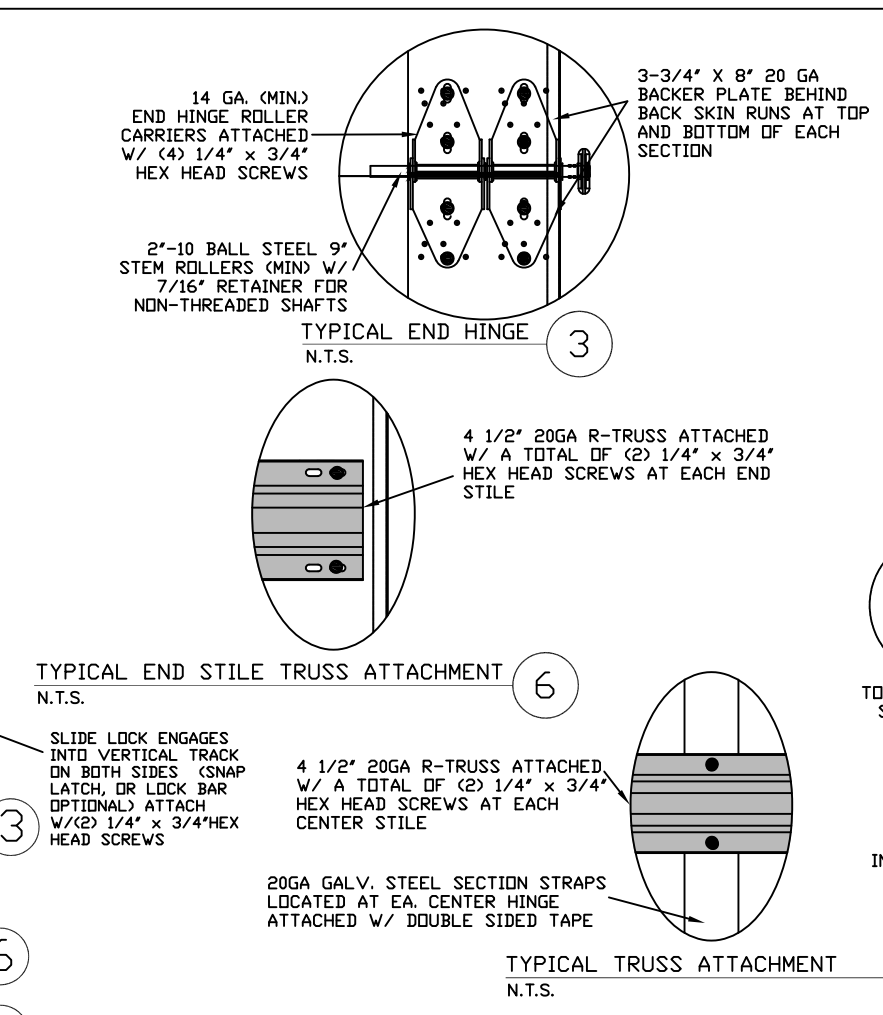
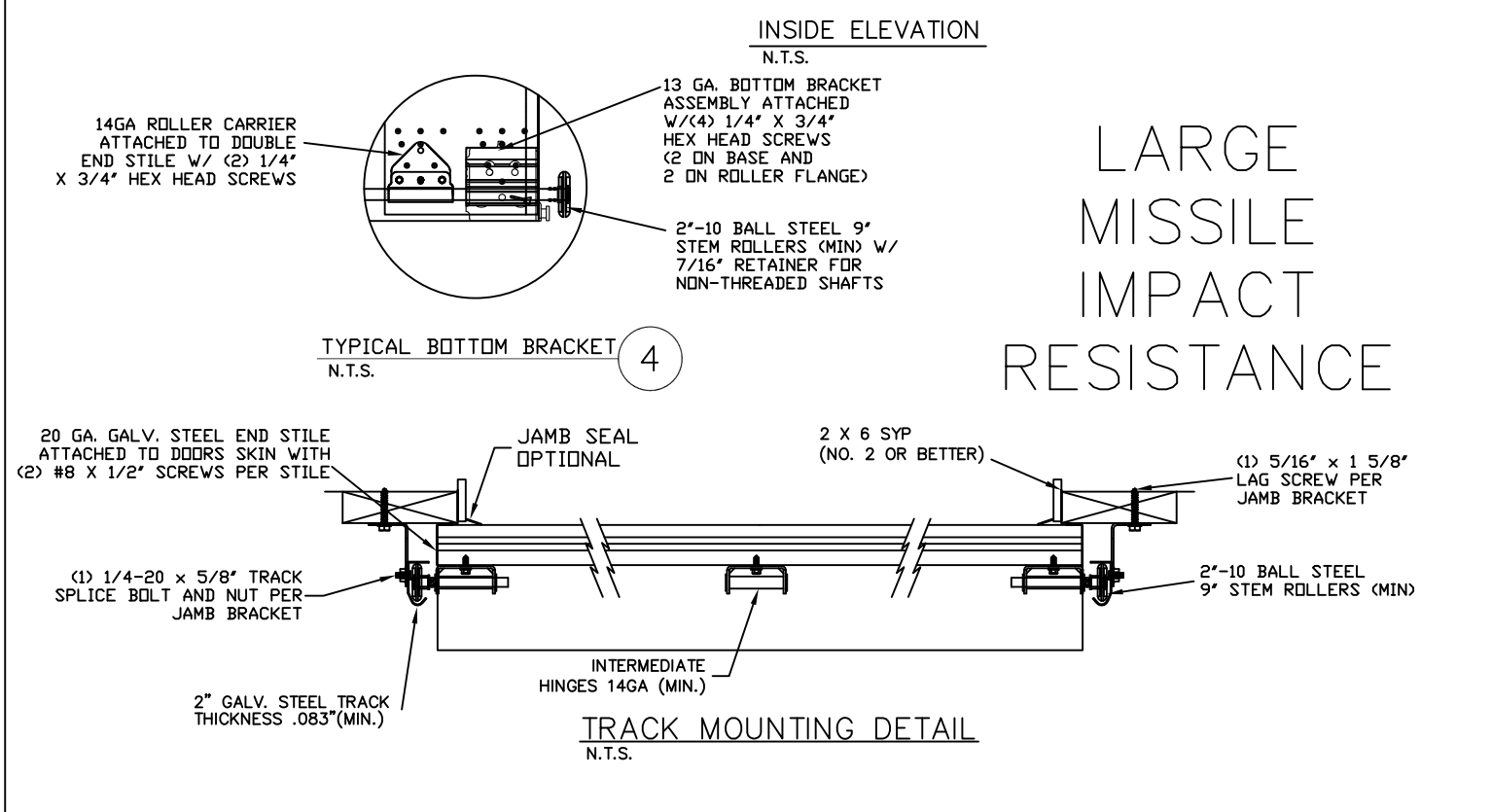
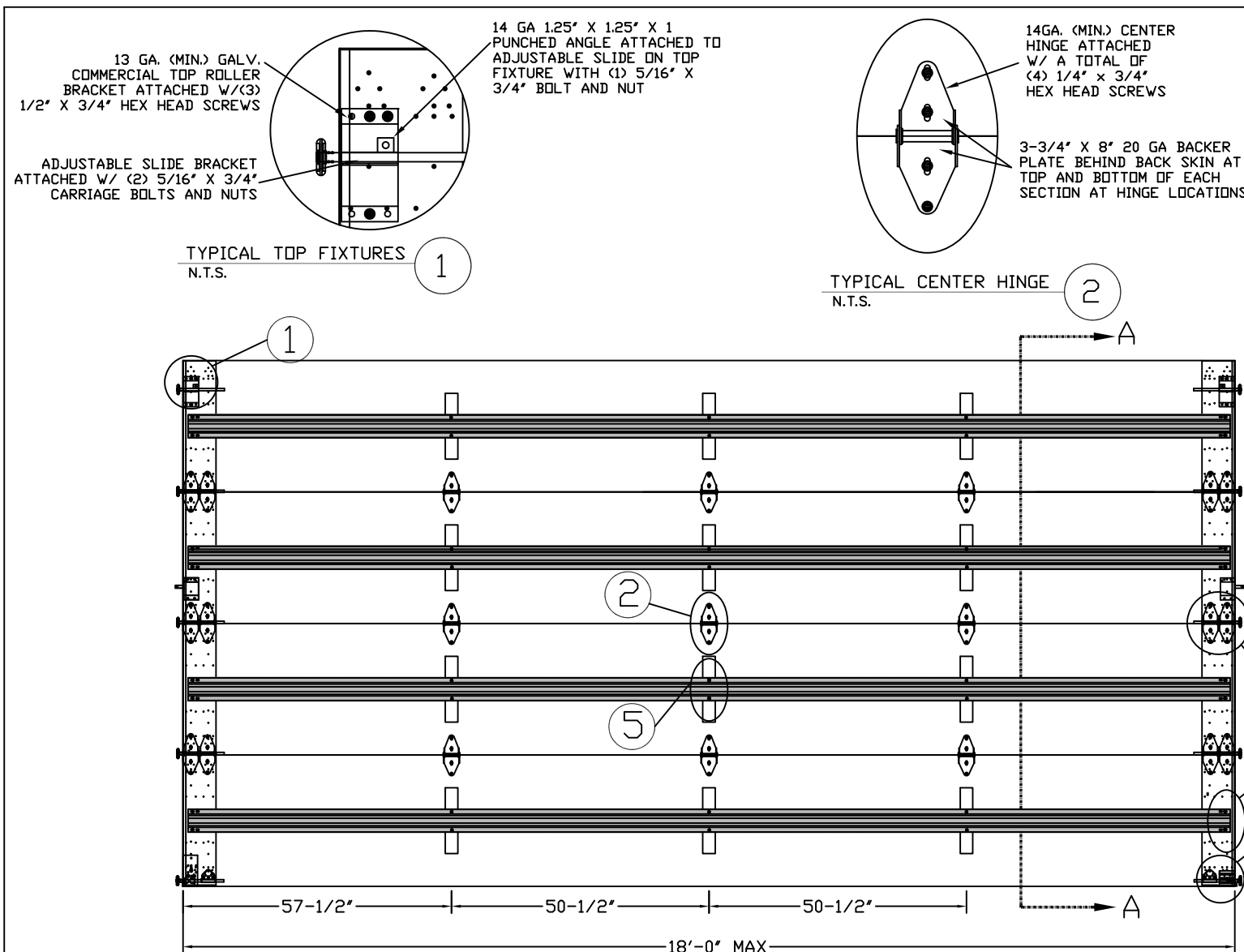
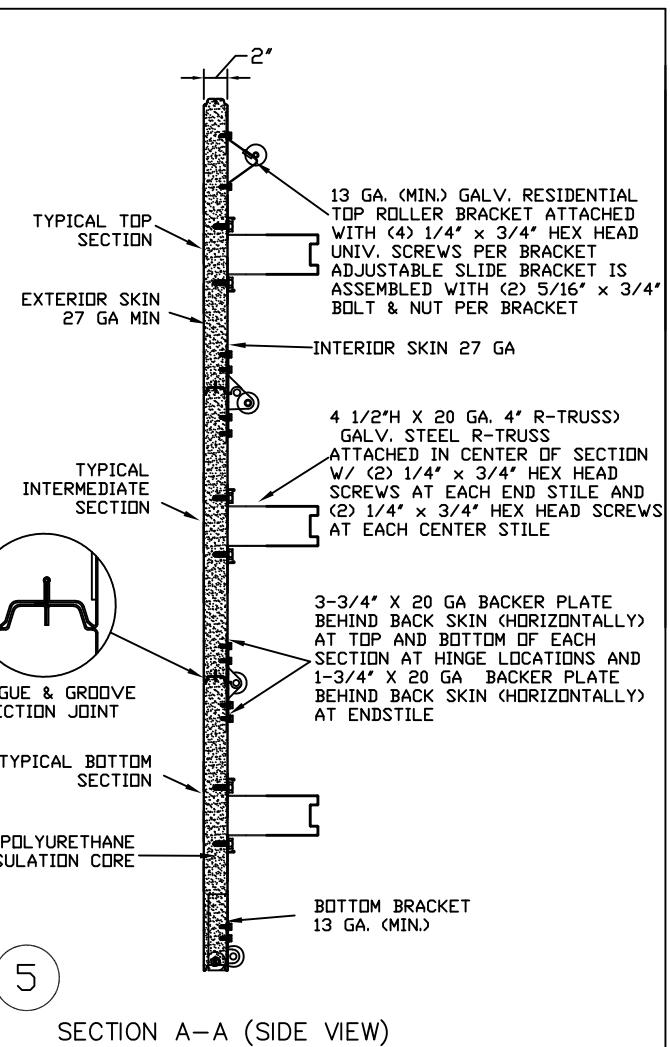
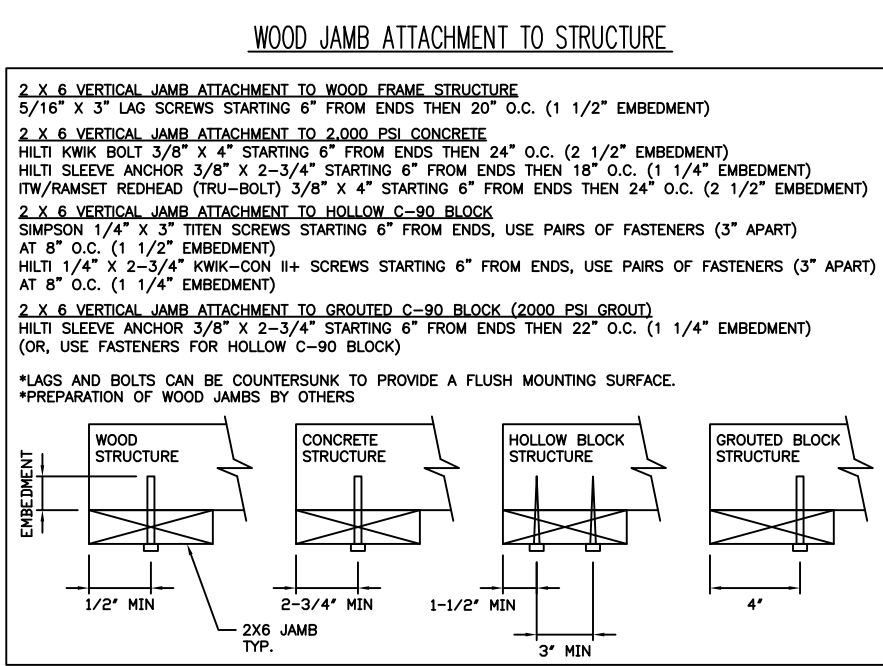




THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108 & 115, AND ASTM E330, E1886, & E1996. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-22 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

|                  |     |     |     |     |     |
|------------------|-----|-----|-----|-----|-----|
| WIND SPEED (MPH) | 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  
18' x 14'

DESIGN LOADS  
+25.4 PSF  
-28.7 PSF

TEST LOADS  
+38.1 PSF  
-43.1 PSF

LARGE MISSILE  
IMPACT  
RESISTANCE

**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

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: 2023.10.04 17:01:34 -0400

|                                                                       |                 |                  |                                                     |
|-----------------------------------------------------------------------|-----------------|------------------|-----------------------------------------------------|
| <b>MODEL P500 AMARR OLYMPUS<br/>MODEL D500 AMARR DESIGNERS CHOICE</b> |                 |                  |                                                     |
| SIZE<br>B                                                             | DRAWN BY<br>BHC | DRC<br>BHC       | DATE<br>04/18/11                                    |
| CHECKED BY<br>BHC                                                     |                 | DATE<br>04/18/11 |                                                     |
| AMARR COMPANY<br>165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105         |                 |                  | DRAWING NUMBER<br>IRC-P518-130-24-1<br>SHEET 1 OF 2 |

TABLE 1

| DOOR<br>HEIGHT | SECTION HEIGHTS |     |     |     |     |     |     |     |
|----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|
|                | Btm             | #2  | #3  | #4  | #5  | #6  | #7  | #8  |
| 6' 0"          | 18"             | 18" | 18" | 18" |     |     |     |     |
| 6' 6"          | 21"             | 18" | 18" | 21" |     |     |     |     |
| 7' 0"          | 21"             | 21" | 21" | 21" |     |     |     |     |
| 7' 6"          | 18"             | 18" | 18" | 18" | 18" |     |     |     |
| 8' 0"          | 21"             | 18" | 18" | 18" | 21" |     |     |     |
| 8' 6"          | 21"             | 21" | 21" | 18" | 21" |     |     |     |
| 9' 0"          | 18"             | 18" | 18" | 18" | 18" | 18" |     |     |
| 9' 6"          | 21"             | 18" | 18" | 18" | 18" | 21" |     |     |
| 10' 0"         | 21"             | 21" | 21" | 18" | 18" | 21" |     |     |
| 10' 6"         | 21"             | 21" | 21" | 21" | 21" | 21" |     |     |
| 11' 0"         | 21"             | 18" | 18" | 18" | 18" | 18" | 21" |     |
| 11' 6"         | 21"             | 21" | 21" | 18" | 18" | 18" | 21" |     |
| 12' 0"         | 21"             | 21" | 21" | 21" | 21" | 18" | 21" |     |
| 12' 6"         | 21"             | 18" | 18" | 18" | 18" | 18" | 18" | 21" |
| 13' 0"         | 21"             | 21" | 21" | 18" | 18" | 18" | 18" | 21" |
| 13' 6"         | 21"             | 21" | 21" | 21" | 21" | 18" | 18" | 21" |
| 14' 0"         | 21"             | 21" | 21" | 21" | 21" | 21" | 21" | 21" |

TABLE 3

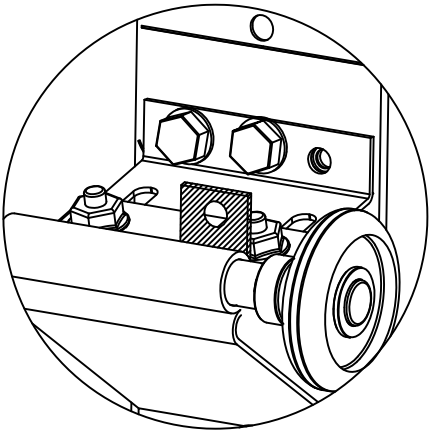
| Section    |    | Center Stile Locations<br>(Measured from Left) |             |             | Max Design<br>Loads Allowed |                   |
|------------|----|------------------------------------------------|-------------|-------------|-----------------------------|-------------------|
| Width (ft) |    | 1st<br>(in)                                    | 2st<br>(in) | 3rd<br>(in) | Positive<br>(PSF)           | Negative<br>(PSF) |
| 16'        | 2  | 50.27                                          | 97.00       | 143.73      | 28.1                        | 31.8              |
| 16'        | 4  | 51.27                                          | 98.00       | 144.73      | 27.9                        | 31.5              |
| 16'        | 6  | 52.27                                          | 99.00       | 145.73      | 27.6                        | 31.2              |
| 16'        | 8  | 51.34                                          | 100.00      | 148.66      | 27.3                        | 30.8              |
| 16'        | 10 | 51.50                                          | 101.00      | 150.50      | 27.0                        | 30.5              |
| 17' 0      |    | 53.34                                          | 102.00      | 150.66      | 26.8                        | 30.2              |
| 17' 2      |    | 53.00                                          | 103.00      | 153.00      | 26.5                        | 29.9              |
| 17' 4      |    | 54.00                                          | 104.00      | 154.00      | 26.2                        | 29.7              |
| 17' 6      |    | 55.00                                          | 105.00      | 155.00      | 26.0                        | 29.4              |
| 17' 8      |    | 54.80                                          | 106.00      | 157.20      | 25.7                        | 29.1              |
| 17' 10     |    | 55.80                                          | 107.00      | 158.20      | 25.5                        | 28.8              |
| 18'        | 0  | 57.25                                          | 108.00      | 158.75      | 25.4                        | 28.7              |

TABLE 2

| HEIGHT | TRACK ATTACHMENT |     |     |     |     |      |      |      | SPLICE |
|--------|------------------|-----|-----|-----|-----|------|------|------|--------|
|        | A                | B   | C   | D   | E   | F    | G    | H    |        |
| 6' 0"  | 3.5"             | 18" | 36" | 54" |     |      |      |      | 64"    |
| 6' 6"  | 3.5"             | 21" | 38" | 58" |     |      |      |      | 70"    |
| 7' 0"  | 3.5"             | 21" | 42" | 63" |     |      |      |      | 76"    |
| 7' 6"  | 3.5"             | 18" | 36" | 54" | 72" |      |      |      | 82"    |
| 8' 0"  | 3.5"             | 21" | 39" | 58" | 75" |      |      |      | 88"    |
| 8' 6"  | 3.5"             | 21" | 42" | 63" | 81" |      |      |      | 94"    |
| 9' 0"  | 3.5"             | 18" | 36" | 54" | 72" | 90"  |      |      | 100"   |
| 9' 6"  | 3.5"             | 21" | 39" | 57" | 75" | 93"  |      |      | 106"   |
| 10' 0" | 3.5"             | 21" | 42" | 63" | 81" | 99"  |      |      | 112"   |
| 10' 6" | 3.5"             | 21" | 42" | 63" | 84" | 105" |      |      | 118"   |
| 11' 0" | 3.5"             | 21" | 39" | 57" | 75" | 93"  | 111" |      | 124"   |
| 11' 6" | 3.5"             | 21" | 42" | 63" | 81" | 99"  | 117" |      | 130"   |
| 12' 0" | 3.5"             | 21" | 42" | 63" | 84" | 105" | 123" |      | 136"   |
| 12' 6" | 3.5"             | 18" | 36" | 57" | 75" | 93"  | 111" | 129" | 142"   |
| 13' 0" | 3.5"             | 21" | 42" | 63" | 81" | 99"  | 117" | 135" | 148"   |
| 13' 6" | 3.5"             | 21" | 42" | 63" | 84" | 105" | 123" | 141" | 154"   |
| 14' 0" | 3.5"             | 21" | 42" | 63" | 84" | 105" | 126" | 147" | 160"   |

ALL TRACK ATTACHMENT SPACING +/- 2" ALLOWED WITH SYP NO. 2 OR BETTER ONLY

TOP FIXTURE REINFORCEMENT  
ILLUSTRATION



TOP FIXTURE ADDER PIECE

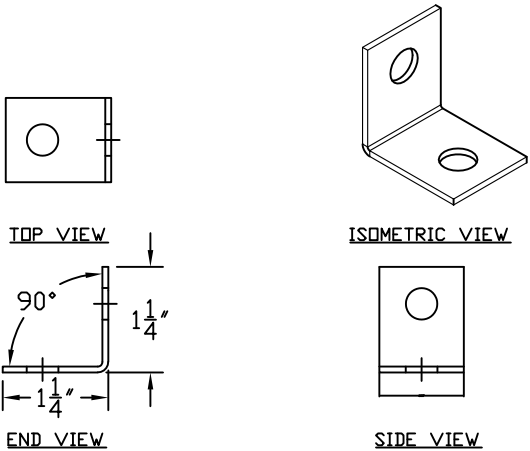
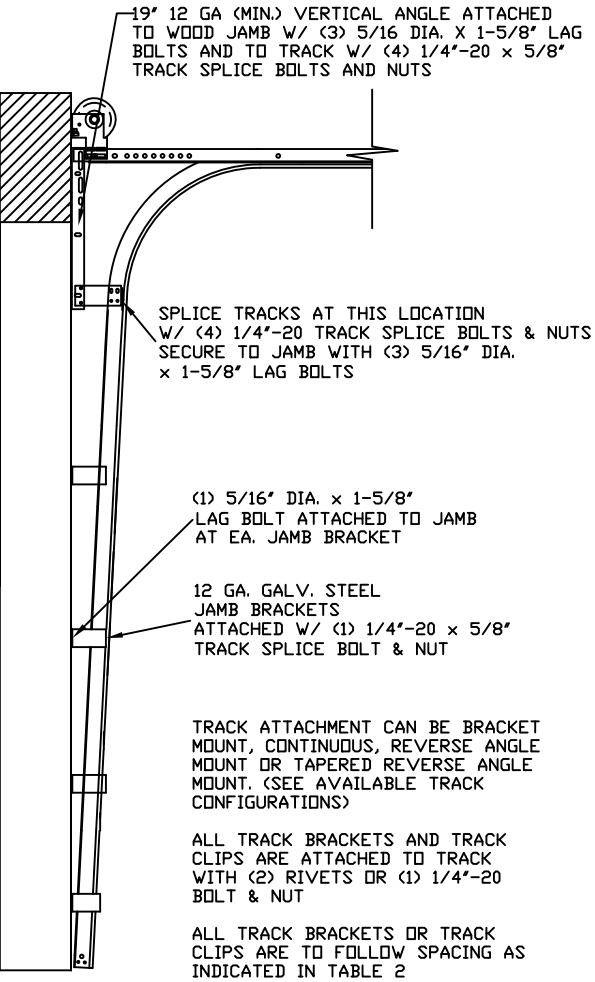
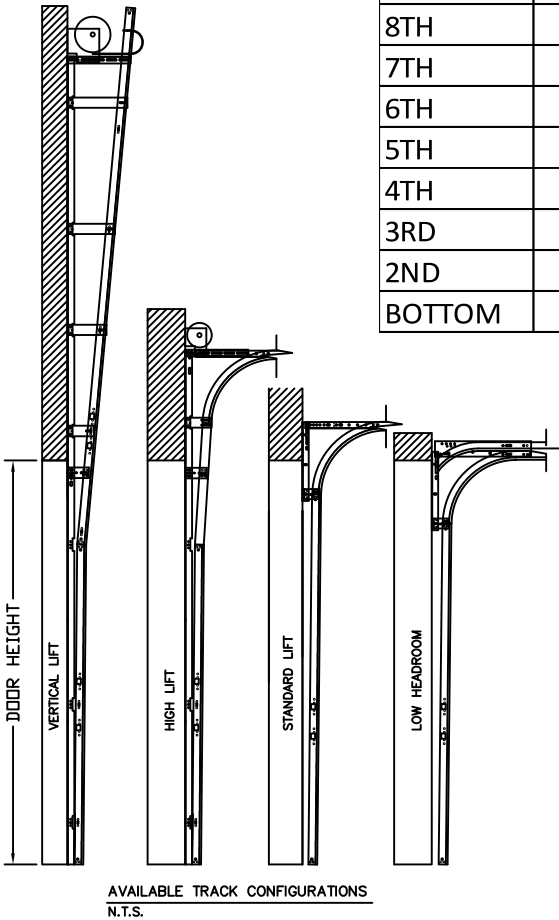


TABLE 4

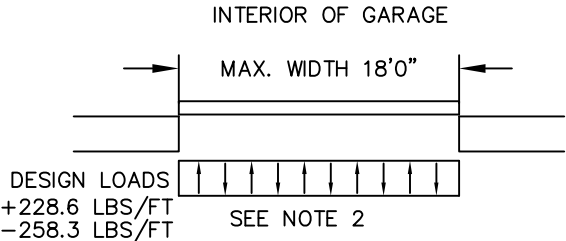
| SECTION | STRUT SIZE |
|---------|------------|
| 8TH     | 4.5"       |
| 7TH     | 4.5"       |
| 6TH     | 4.5"       |
| 5TH     | 4.5"       |
| 4TH     | 4.5"       |
| 3RD     | 4.5"       |
| 2ND     | 4.5"       |
| BOTTOM  | 4.5"       |



TRACK CONFIGURATION FOR UP TO 14' TALL DOORS

SPECIFICATIONS AND NOTES

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LAOD 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: +228.6 LBS/FT & -258.3 LBS/FT.
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27GA MIN. INTERIOR AND 24GA MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH.
5. DOORS UP TO 14'0 HIGH REQUIRE (1) 4-1/2" 20 GA R-TRUSS 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.
7. PANEL STAMP DOES NOT AFFECT WINDLOAD CAPABILITIES.



REVDESCRIPTION OF REVISIONSDATEBY

MAX SIZE  
18' x 14'

DESIGN LOADS  
+25.4 PSF  
-28.7 PSF

TEST LOADS  
+38.1 PSF  
-43.1 PSF

LARGE MISSILE  
IMPACT  
RESISTANCE

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

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FL

Amarr

MODEL P500 AMARR OLYMPUS  
MODEL D500 AMARR DESIGNERS CHOICE

|      |            |     |      |          |                   |
|------|------------|-----|------|----------|-------------------|
| SIZE | DRAWN BY   | DRC | DATE | 04/18/11 | DRAWING NUMBER    |
| B    | CHECKED BY | BHG | DATE | 04/18/11 | IRC-P518-130-24-I |

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

SHEET 2 OF 2