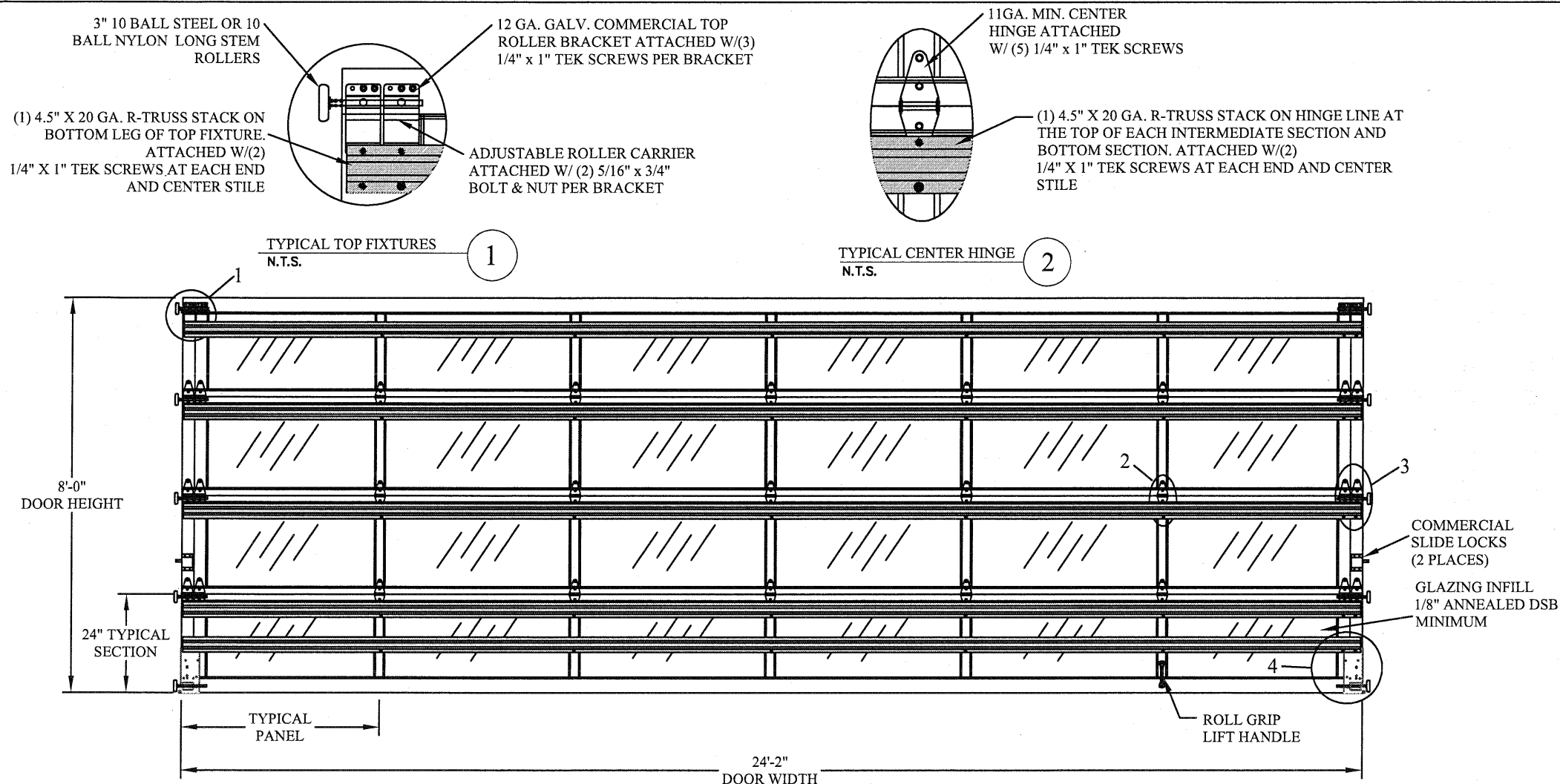
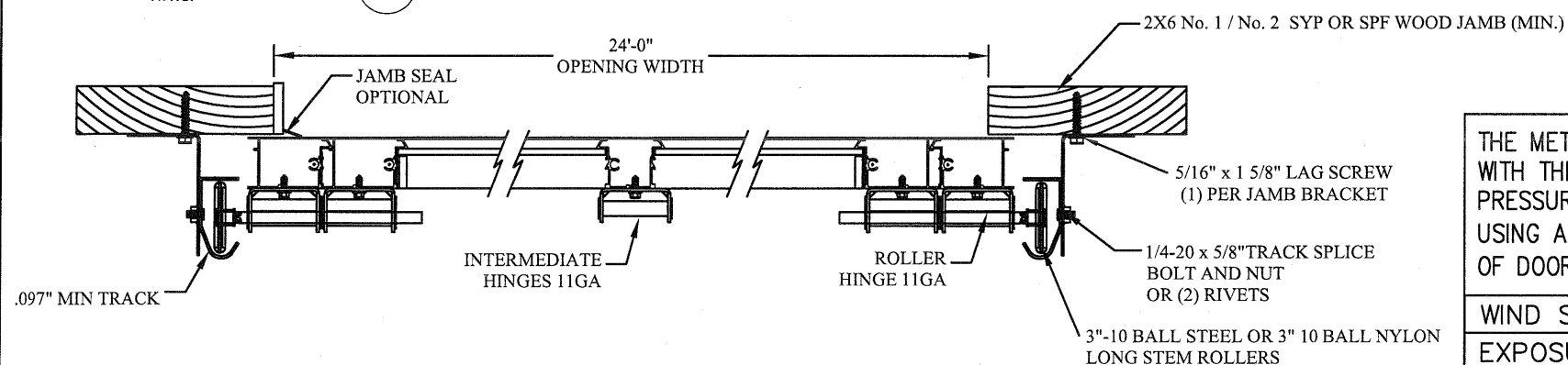
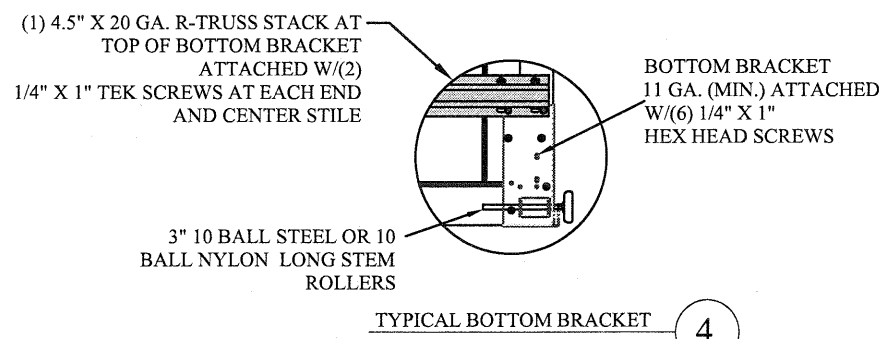
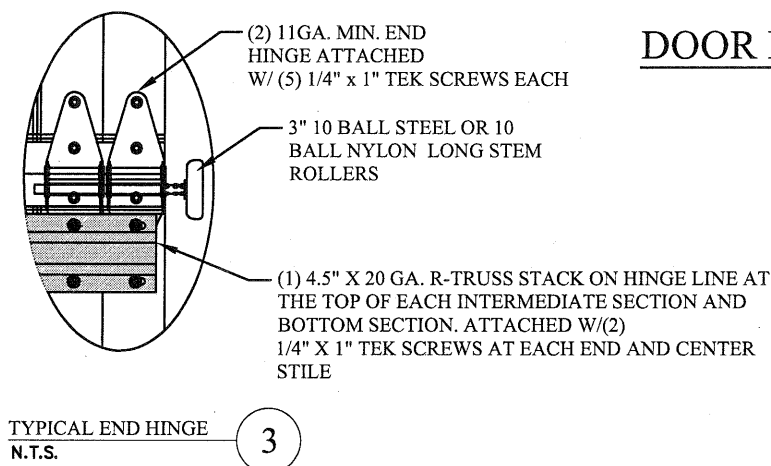
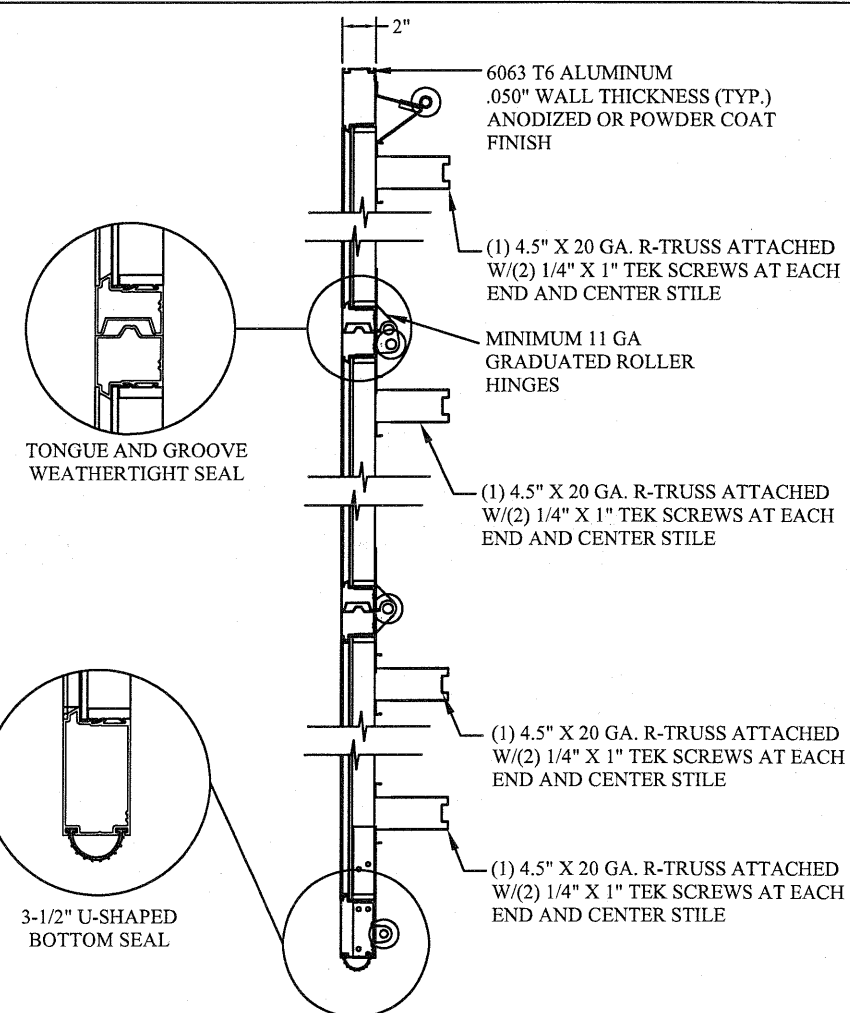




DOOR INTERIOR ELEVATION



3" TAPERED CONTINUOUS ANGLE MOUNT TO WOOD JAMB DETAIL



ALUMINUM SECTION PROFILE

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10° OR LESS):

|                  |     |     |     |     |     |
|------------------|-----|-----|-----|-----|-----|
| WIND SPEED (MPH) | 136 | 123 | 117 | 112 | 107 |
| EXPOSURE LEVEL   | B   | C   | C   | D   | D   |
| MEAN ROOF HEIGHT | 30' | 15' | 25' | 15' | 25' |

| REV | DESCRIPTION OF REVISIONS | DATE | BY |
|-----|--------------------------|------|----|
|     |                          |      |    |

MAX SIZE  
24'2" x 24'

DESIGN LOADS  
+14.7 PSF  
-16.5 PSF

TEST LOADS  
+22.1 PSF  
-24.8 PSF

Thomas L. Shelmerdine, PE (FL PE #0048579)  
Structural Solutions, PA (FL Firm #29412)

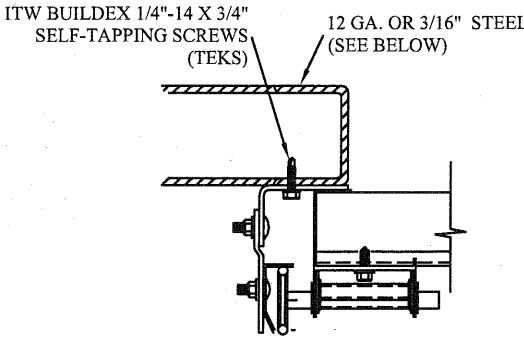
FL

dba Structural Solutions of North Carolina, Inc.  
5921-G W. Friendly Ave., Greensboro, NC 27410

**MODEL 3550**  
**AMARR 3552, VISTA**

|                                                             |            |     |      |          |                                   |
|-------------------------------------------------------------|------------|-----|------|----------|-----------------------------------|
| SIZE<br>B                                                   | DRAWN BY   | RS  | DATE | 06/12/15 | DRAWING NUMBER<br>IBC-3624-104-24 |
|                                                             | CHECKED BY | RLR | DATE | 06/12/15 |                                   |
| ENTREMATICS<br>165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 |            |     |      |          | SHEET 1 OF 3                      |

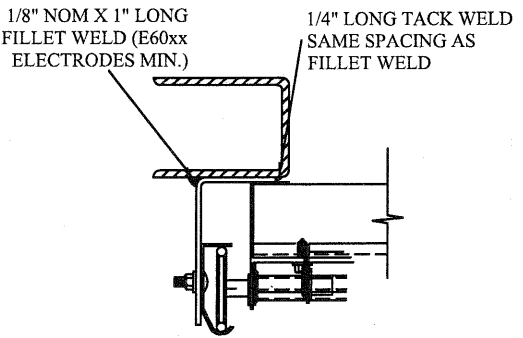
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



CLIP STYLE REVERSE ANGLE MOUNT SHOWN  
BRACKET, CONTINUOUS AND TAPERED ANGLE  
MOUNT AVAILABLE

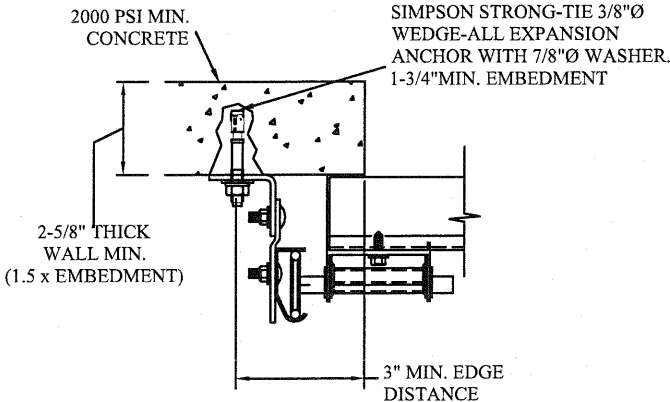
12 GA. STEEL FRAMING  
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS  
AND 12" O.C.  
REFER TO NOTES: 1, 2 AND 5

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



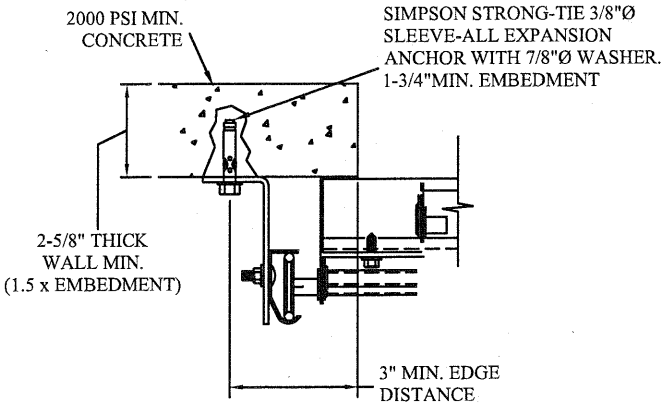
REVERSE ANGLE MOUNT SHOWN  
BRACKET, CONTINUOUS AND TAPERED  
ANGLE MOUNT AVAILABLE

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



CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN  
BRACKET, REVERSE AND TAPERED ANGLE MOUNT  
AVAILABLE

2000 PSI CONCRETE OR GREATER  
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"  
FROM ENDS AND 18" O.C.  
REFER TO NOTES: 1, 2, 3, 4 AND 5



CONTINUOUS ANGLE MOUNT SHOWN  
BRACKET, CONTINUOUS AND TAPERED ANGLE  
MOUNT AVAILABLE

2000 PSI CONCRETE OR GREATER  
336 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"  
FROM ENDS AND 18" O.C.  
REFER TO NOTES: 1, 2, 3, 4 AND 5

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: +177.6 LBS/FT & -199.4 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 6063 T6 ALUMINUM .050" WALL THICKNESS (TYP.) ANODIZED OR POWDER COAT FINISH
5. DOORS UP TO 24'0" HIGH WILL HAVE (2) 4-1/2" 20GA R-TRUSS ON THE BOTTOM SECTION AND (1) 4-1/2" 20GA R-TRUSS PER SECTION AFTER THAT.
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

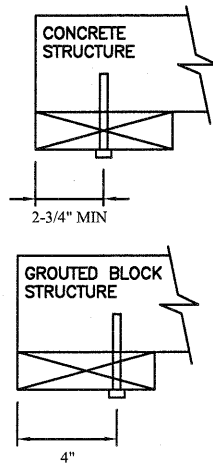
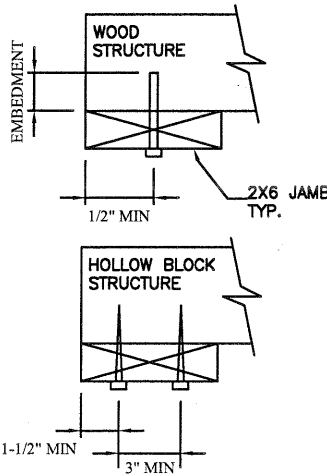
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE  
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS  
THEN 24" O.C. (1 1/2" EMBEDMENT)

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 16" 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 16" O.C. (1 1/4" EMBEDMENT)

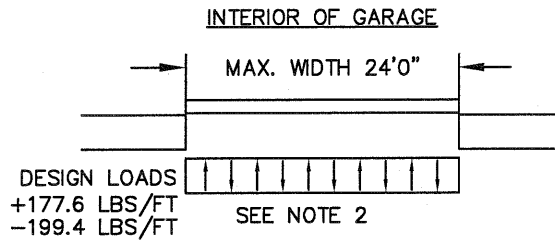
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)  
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS  
THEN 24" O.C. (1 1/4" EMBEDMENT)  
(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

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



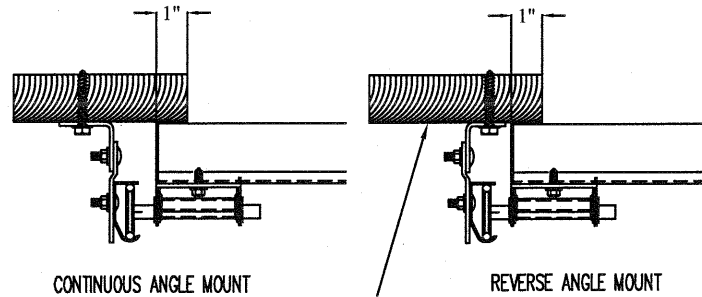
NOTES:

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.



TRACK CONNECTION TO WOOD JAMB OPTIONS

FOR LAG SCREW SPACING SEE PAGE 3 FOR TRACK CONFIGURATION DETAIL



2x6 WOOD JAMB SYP OR SPF  
(NO.2) OR BETTER (TYP.)

| REV | DESCRIPTION OF REVISIONS | DATE | BY |
|-----|--------------------------|------|----|
|     |                          |      |    |

MAX SIZE  
24'2 x 24'

DESIGN LOADS  
+14.7 PSF  
-16.5 PSF

TEST LOADS  
+22.1 PSF  
-24.8 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

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

MODEL 3550  
AMARR 3552, VISTA

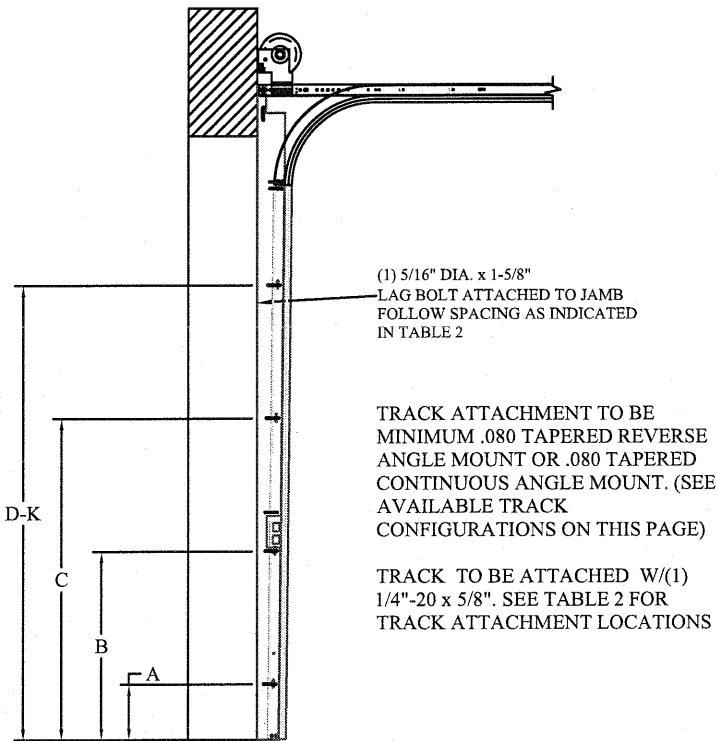
| SIZE | DRAWN BY   | RS  | DATE | 06/12/15 | DRAWING NUMBER  |
|------|------------|-----|------|----------|-----------------|
| B    | CHECKED BY | RLR | DATE | 06/12/15 | IBC-3624-104-24 |

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

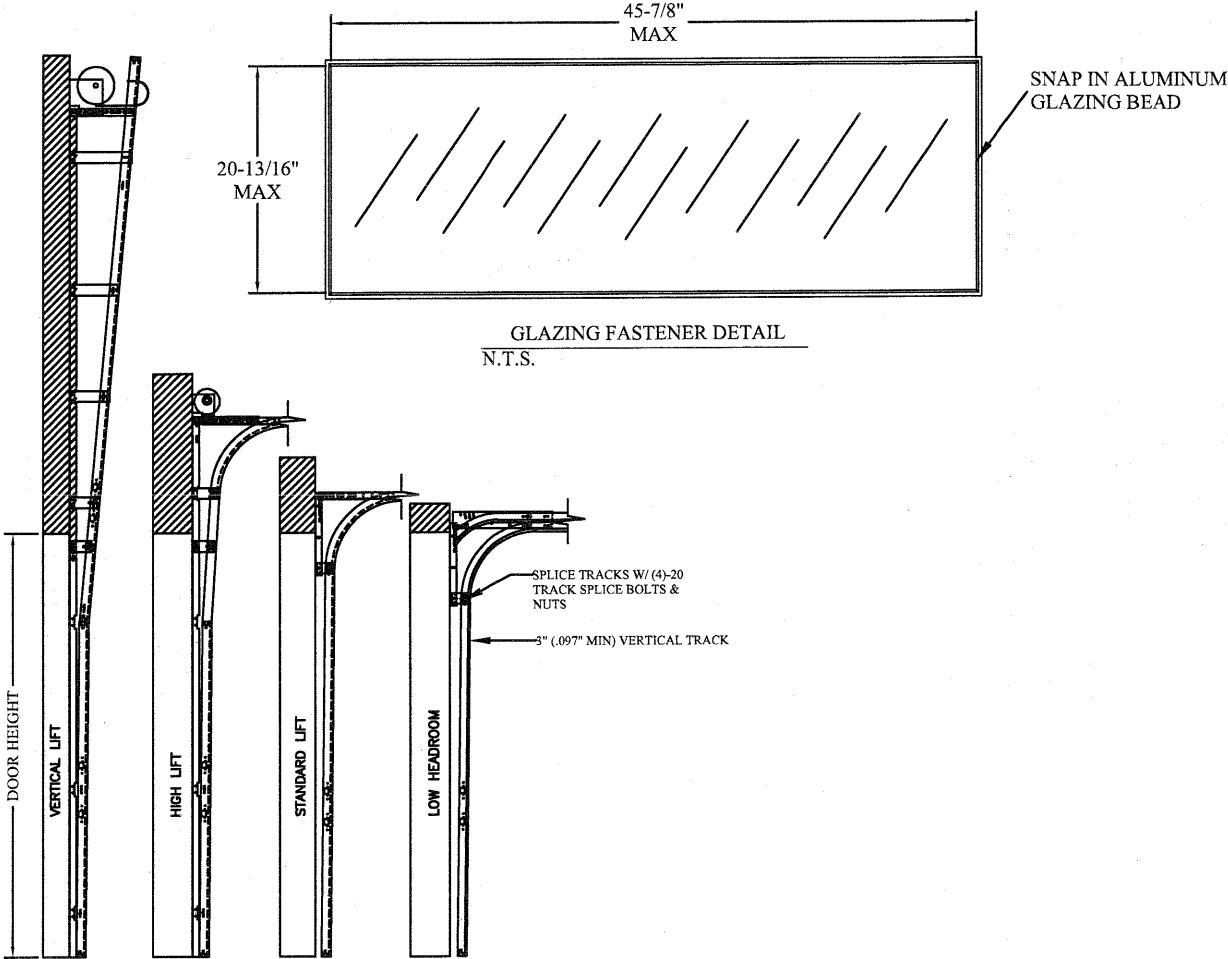
SHEET 2 OF 3

TABLE 1

| Section Width |      | Center Stile Locations<br>(Measured from Left Edge) |             |             |             |             | Max Design Loads Allowed |                   |
|---------------|------|-----------------------------------------------------|-------------|-------------|-------------|-------------|--------------------------|-------------------|
| (ft)          | (in) | 1st<br>(in)                                         | 2nd<br>(in) | 3rd<br>(in) | 4th<br>(in) | 5th<br>(in) | Positive<br>(PSF)        | Negative<br>(PSF) |
| 19'           | 4    | 36                                                  | 76          | 116         | 156         | 196         | 17.8                     | 20                |
| 19'           | 6    | 37                                                  | 77          | 117         | 157         | 197         | 17.8                     | 20                |
| 19'           | 8    | 38                                                  | 78          | 118         | 158         | 198         | 17.8                     | 20                |
| 19'           | 10   | 39                                                  | 79          | 119         | 159         | 199         | 17.8                     | 20                |
| 20'           | 0    | 40.0                                                | 80          | 120         | 160         | 200         | 17.7                     | 19.9              |
| 20'           | 2    | 41.0                                                | 81          | 121         | 161         | 201         | 17.6                     | 19.7              |
| 20'           | 4    | 42                                                  | 82          | 122         | 162         | 202         | 17.3                     | 19.5              |
| 20'           | 6    | 43                                                  | 83          | 123         | 163         | 203         | 17.1                     | 19.2              |
| 20'           | 8    | 44                                                  | 84          | 124         | 164         | 204         | 16.9                     | 19                |
| 20'           | 10   | 45                                                  | 85          | 125         | 165         | 205         | 16.7                     | 18.8              |
| 21'           | 0    | 46                                                  | 86          | 126         | 166         | 206         | 16.5                     | 18.6              |
| 21            | 2    | 47                                                  | 87          | 127         | 167         | 207         | 16.3                     | 18.3              |
| 21'           | 4    | 48                                                  | 88          | 128         | 168         | 208         | 16.2                     | 18.1              |
| 21'           | 6    | 49                                                  | 89          | 129         | 169         | 209         | 16                       | 17.9              |
| 21'           | 8    | 50                                                  | 90          | 130         | 170         | 210         | 15.8                     | 17.7              |
| 21'           | 10   | 51                                                  | 91          | 131         | 171         | 211         | 15.6                     | 17.5              |
| 22'           | 0    | 44                                                  | 88          | 132         | 176         | 220         | 16.1                     | 18.1              |
| 22            | 2    | 45                                                  | 89          | 133         | 177         | 221         | 16                       | 17.9              |
| 22'           | 4    | 46                                                  | 90          | 134         | 178         | 222         | 15.8                     | 17.7              |
| 22'           | 6    | 47                                                  | 91          | 135         | 179         | 223         | 15.6                     | 17.5              |
| 22'           | 8    | 48                                                  | 92          | 136         | 180         | 224         | 15.4                     | 17.3              |
| 22'           | 10   | 49                                                  | 93          | 137         | 181         | 225         | 15.3                     | 17.2              |
| 23'           | 0    | 50                                                  | 94          | 138         | 182         | 226         | 15.1                     | 17                |
| 23            | 2    | 51                                                  | 95          | 139         | 183         | 227         | 15                       | 16.8              |
| 23'           | 4    | 44                                                  | 92          | 140         | 188         | 236         | 14.8                     | 16.6              |
| 23'           | 6    | 45                                                  | 93          | 141         | 189         | 237         | 14.8                     | 16.6              |
| 23'           | 8    | 46                                                  | 94          | 142         | 190         | 238         | 14.8                     | 16.6              |
| 23'           | 10   | 47                                                  | 95          | 143         | 191         | 239         | 14.8                     | 16.6              |
| 24'           | 0    | 48                                                  | 96          | 144         | 192         | 240         | 14.8                     | 16.6              |
| 24'           | 2    | 49                                                  | 97          | 145         | 193         | 241         | 14.7                     | 16.5              |



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



AVAILABLE TRACK CONFIGURATIONS  
N.T.S.

TABLE 2

| DOOR HEIGHT |    | TRACK ATTACHMENT |     |     |     |     |      |      |      |      |      |      |      | TYPICAL SPLICE |
|-------------|----|------------------|-----|-----|-----|-----|------|------|------|------|------|------|------|----------------|
|             |    | A                | B   | C   | D   | E   | F    | G    | H    | I    | J    | K    | L    |                |
| 7'          | 0" | 10"              | 22" | 34" | 58" |     |      |      |      |      |      |      |      | 76"            |
| 7'          | 6" | 10"              | 22" | 34" | 58" |     |      |      |      |      |      |      |      | 82"            |
| 8'          | 0" | 10"              | 22" | 34" | 58" |     |      |      |      |      |      |      |      | 88"            |
| 9'          | 0" | 10"              | 22" | 34" | 58" | 82" |      |      |      |      |      |      |      | 100"           |
| 9'          | 6" | 10"              | 22" | 34" | 58" | 82" |      |      |      |      |      |      |      | 106"           |
| 10'         | 0" | 10"              | 22" | 34" | 58" | 82" | 106" |      |      |      |      |      |      | 112"           |
| 11'         | 0" | 10"              | 22" | 34" | 58" | 82" | 106" |      |      |      |      |      |      | 124"           |
| 12'         | 0" | 10"              | 22" | 34" | 58" | 82" | 106" |      |      |      |      |      |      | 136"           |
| 13'         | 0" | 10"              | 22" | 34" | 58" | 82" | 106" | 130" |      |      |      |      |      | 148"           |
| 14'         | 0" | 10"              | 22" | 34" | 58" | 82" | 106" | 130" |      |      |      |      |      | 160"           |
| 15'         | 0" | 10"              | 22" | 34" | 58" | 82" | 106" | 130" | 154" |      |      |      |      | 172"           |
| 16'         | 0" | 10"              | 22" | 34" | 58" | 82" | 106" | 130" | 154" |      |      |      |      | 184"           |
| 17'         | 0" | 10"              | 22" | 34" | 58" | 82" | 106" | 130" | 154" | 178" |      |      |      | 196"           |
| 18'         | 0" | 10"              | 22" | 34" | 58" | 82" | 106" | 130" | 154" | 178" |      |      |      | 208"           |
| 19'         | 0" | 10"              | 22" | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" |      |      | 220"           |
| 20'         | 0" | 10"              | 22" | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" |      |      | 232"           |
| 21          | 0" | 10"              | 22" | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" | 226" |      | 244"           |
| 22          | 0" | 10"              | 22" | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" | 226" |      | 256"           |
| 23          | 0" | 10"              | 22" | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" | 226" | 250" | 268"           |
| 24          | 0" | 10"              | 22" | 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  
24'2 x 24'

DESIGN LOADS  
+14.7 PSF  
-16.5 PSF

TEST LOADS  
+22.1 PSF  
-24.8 PSF

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Amarr

MODEL 3550  
AMARR 3552, VISTA

SIZE  
B

DRAWN BY  
RS

CHECKED BY  
RLR

DATE  
06/12/15

DATE  
06/12/15

DRAWING NUMBER  
IBC-3624-104-24

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SHEET 3 OF 3