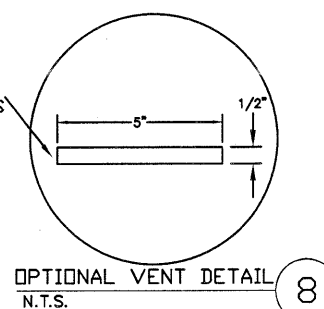
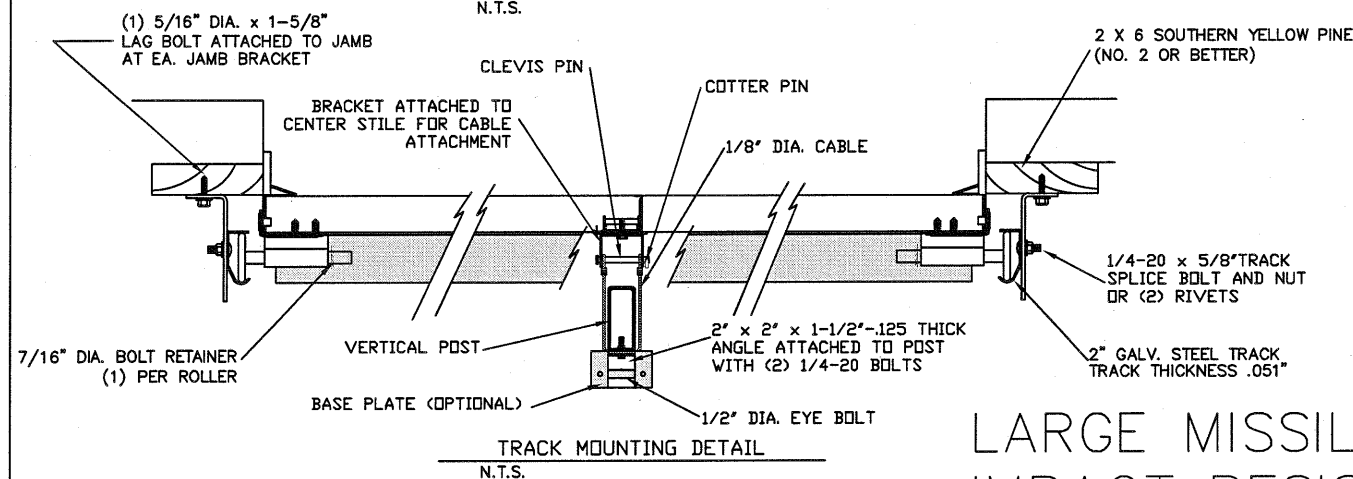
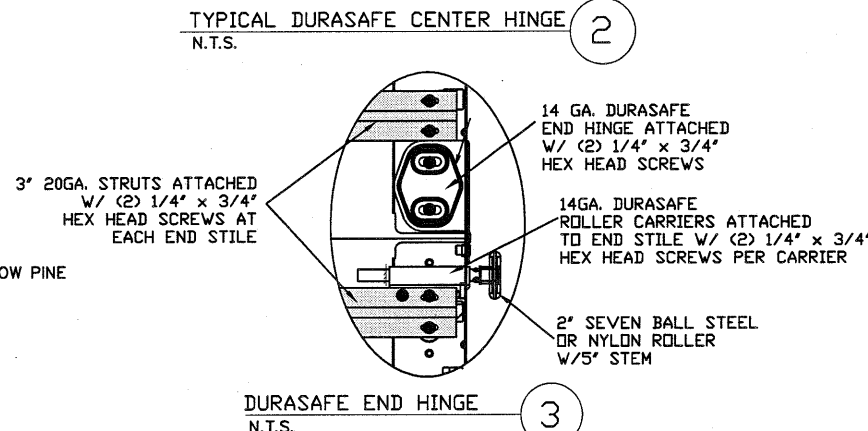
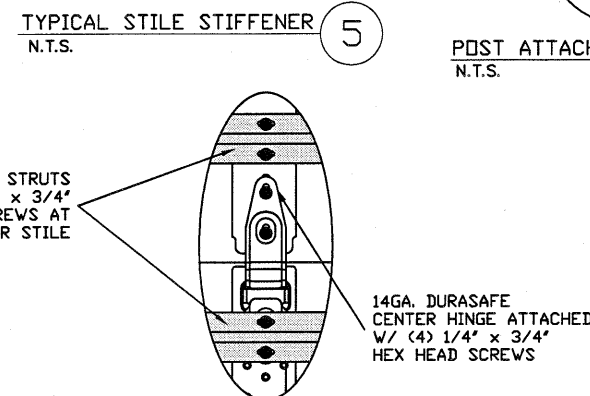
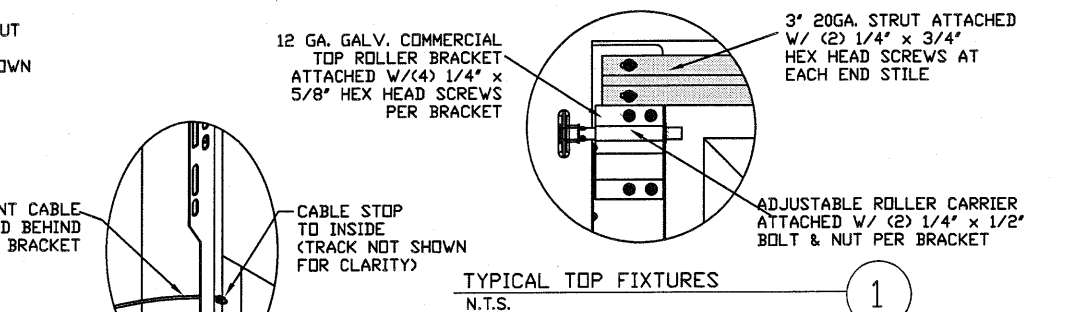
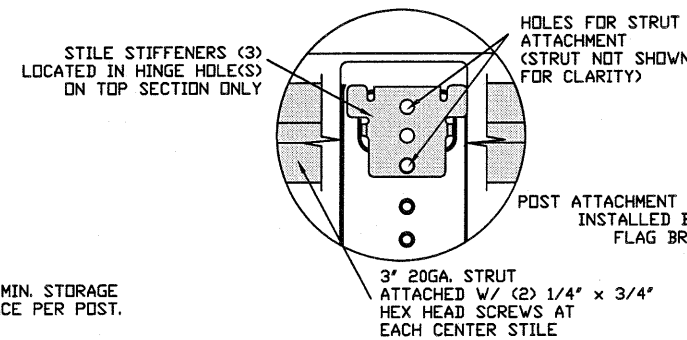
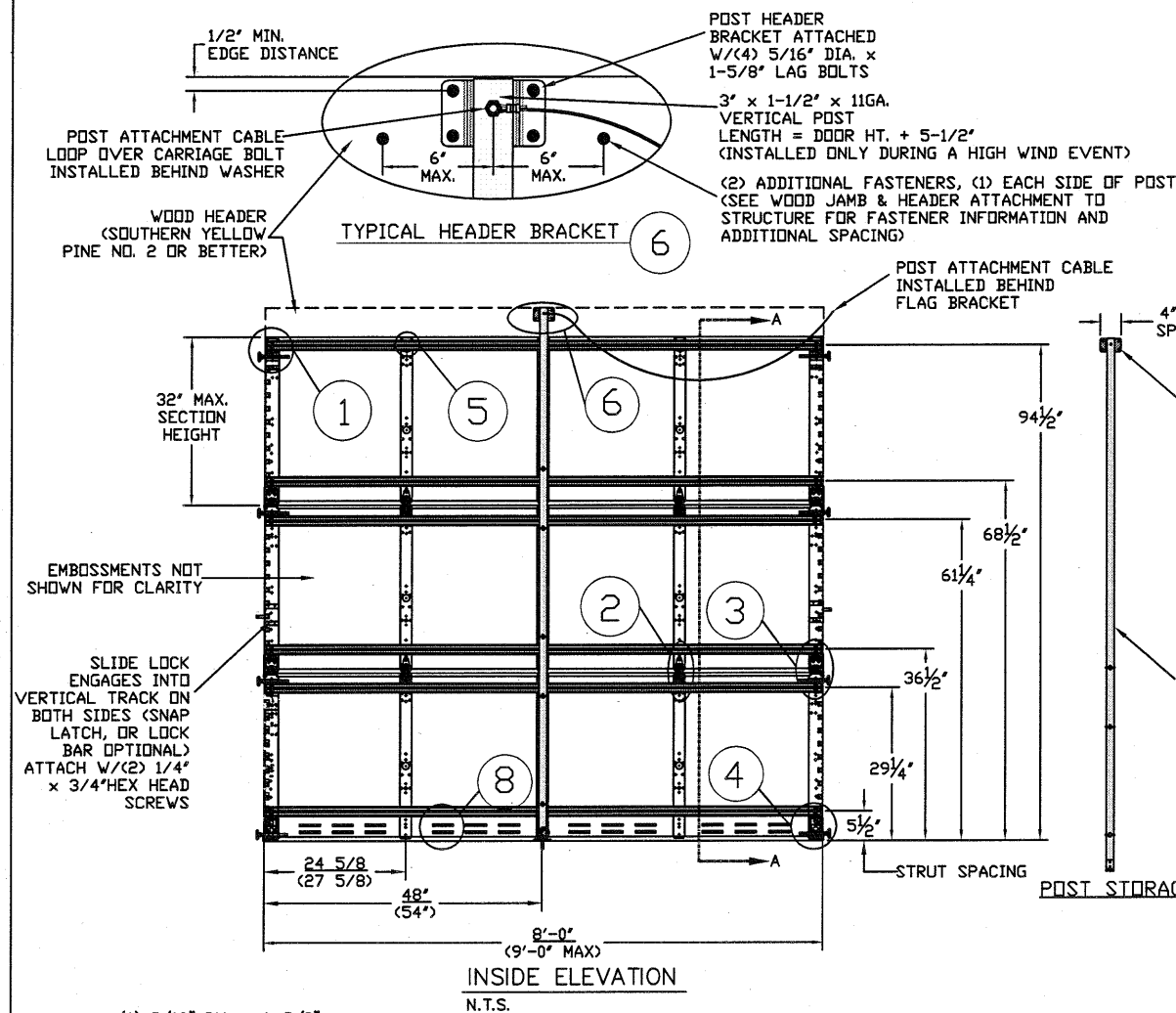




LARGE MISSILE IMPACT RESISTANT

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, ANSI/DASMA 108 AND TAS 201, 202, 203. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	233	212	201	192	184
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

SPECIFICATIONS AND NOTES

1. THE HEADER RECEIVES MAXIMUM DESIGN LOADS OF: +919.8 LBS & -1085.4 LBS AT THE TOP OF THE POST.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +115.0 LBS/FT & -135.7 LBS/FT
3. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. MIN. (.022") ROLLED FORMED LIGHT COMMERCIAL QUALITY STEEL, MIN. YIELD STRENGTH 35,500 KSI, G-40 GALVANIZATION
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

REV	DESCRIPTION OF REVISIONS	DATE	BY
B	ADDED CABLE TO POST	1.22.09	CBT
C	UP-DATED NOTE 4.	4.15.09	CBT
D	UP-DATED NOTE 4 TO INCLUDE YIELD STRENGTH	5.01.09	CBT

MAX SIZE 9' x 8'

DESIGN LOADS
+51.1 PSF
-60.3 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+76.7 PSF
-90.5 PSF

LARGE MISSILE IMPACT RESISTANCE

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

THOMAS L. SHELMERDINE
LICENSE
No. 48579
STATE OF FLORIDA
PROFESSIONAL ENGINEER
FL

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

Amarr

MODEL #500
CLASSICA 1000, 2000

SIZE	DRAWN BY	DLJ	DATE	04/25/06	DRAWING NUMBER
B	CHECKED BY	AAE	DATE	04/25/06	IRC-5309-180-45

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

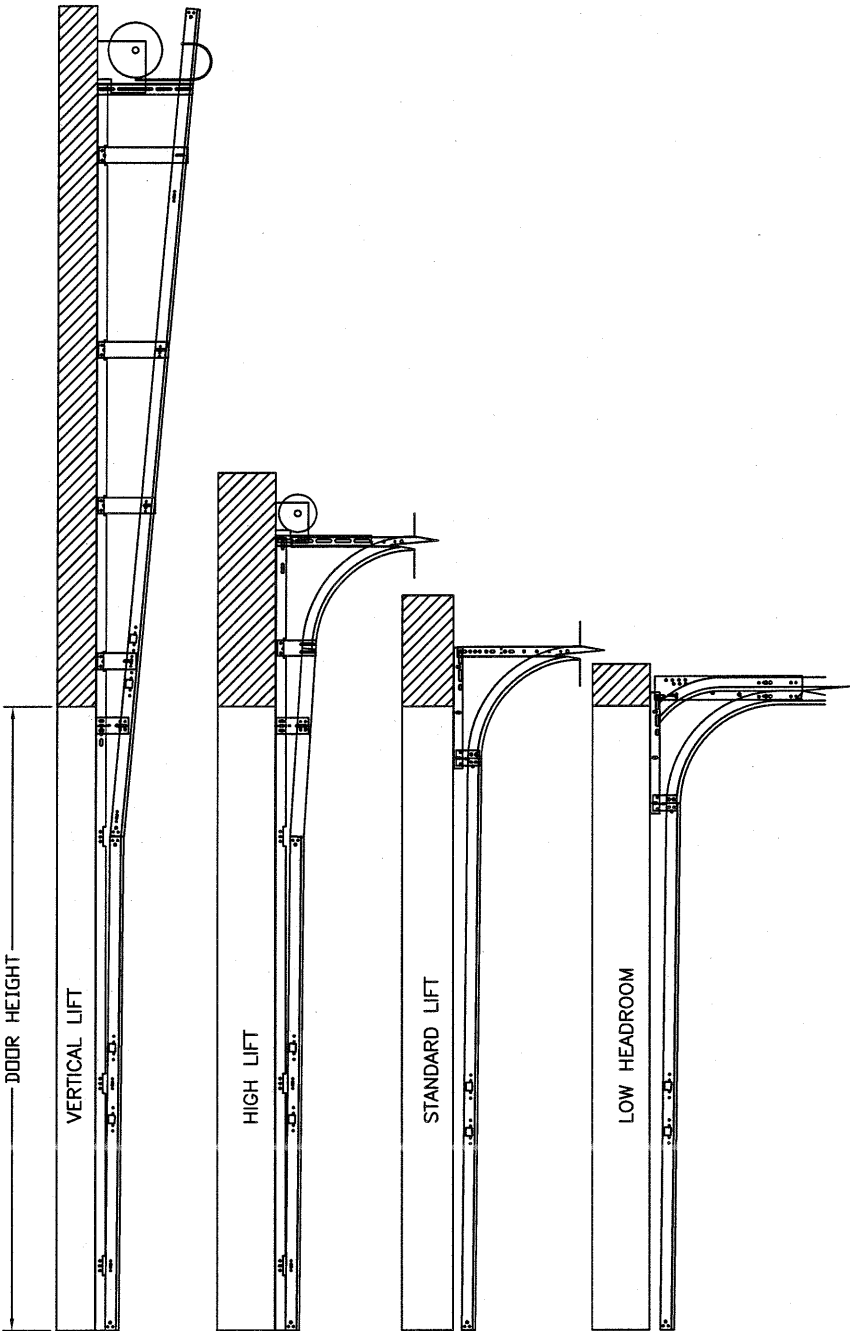
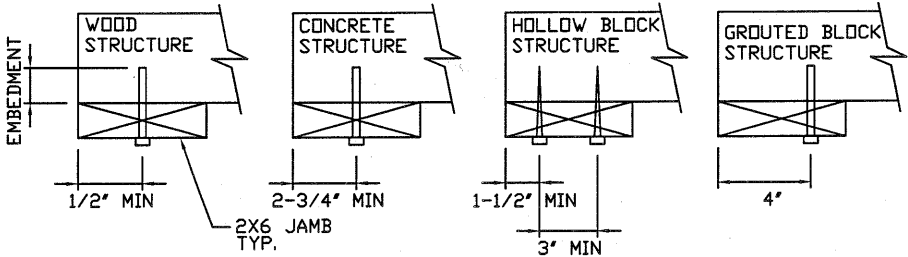
SHEET 1 OF 3

WOOD JAMB & HEADER ATTACHMENT TO STRUCTURE

SEE NOTE 1

2 X 6 VERTICAL JAMB & HEADER 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 & HEADER 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 & HEADER ATTACHMENT TO HOLLOW C-90 BLOCK *SEE NOTE 2*
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS
(3" APART) AT 24" 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 24" O.C. (1 1/4" EMBEDMENT)
2 X 6 VERTICAL JAMB & HEADER 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)

- *NOTES*
- 1. REFER TO DETAIL (6) FOR ADDITIONAL FASTENERS AT HEADER
 - 2. OPTION NOT AVAILABLE FOR HEADER ATTACHMENT
 - 3. LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE
 - 4. PREPARATION OF WOOD JAMBS BY OTHERS



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

8' TALL						
Door	Center Stile Locations (Measured from Left)			Max Design Loads Allowed		
Width (ft)	1st (in)	2st (in)	3rd (in)	Positive (PSF)	Negative (PSF)	
8' 0	24.63	*48.00	71.38	57.2	67.5	
8' 2	25.13	*49.00	72.88	56.0	66.1	
8' 4	25.63	*50.00	74.38	54.9	64.8	
8' 6	26.13	*51.00	75.88	53.8	63.5	
8' 8	26.63	*52.00	77.38	52.8	62.3	
8' 10	27.13	*53.00	78.88	51.8	61.1	
9' 0	27.63	*54.00	80.38	51.1	60.3	
7' TALL						
Door	Center Stile Locations (Measured from Left)			Max Design Loads Allowed		
Width (ft)	1st (in)	2st (in)	3rd (in)	Positive (PSF)	Negative (PSF)	
8' 0	24.63	*48.00	71.38	65.4	77.1	
8' 2	25.13	*49.00	72.88	64.0	75.6	
8' 4	25.63	*50.00	74.38	62.8	74.1	
8' 6	26.13	*51.00	75.88	61.5	72.6	
8' 8	26.63	*52.00	77.38	60.3	71.2	
8' 10	27.13	*53.00	78.88	59.2	69.9	
9' 0	27.63	*54.00	80.38	58.1	68.6	

* DENOTES POST LOCATION

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MAX SIZE
9' x 8'

DESIGN LOADS
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-60.3 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+76.7 PSF
-90.5 PSF

LARGE MISSILE
IMPACT
RESISTANCE

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

FL

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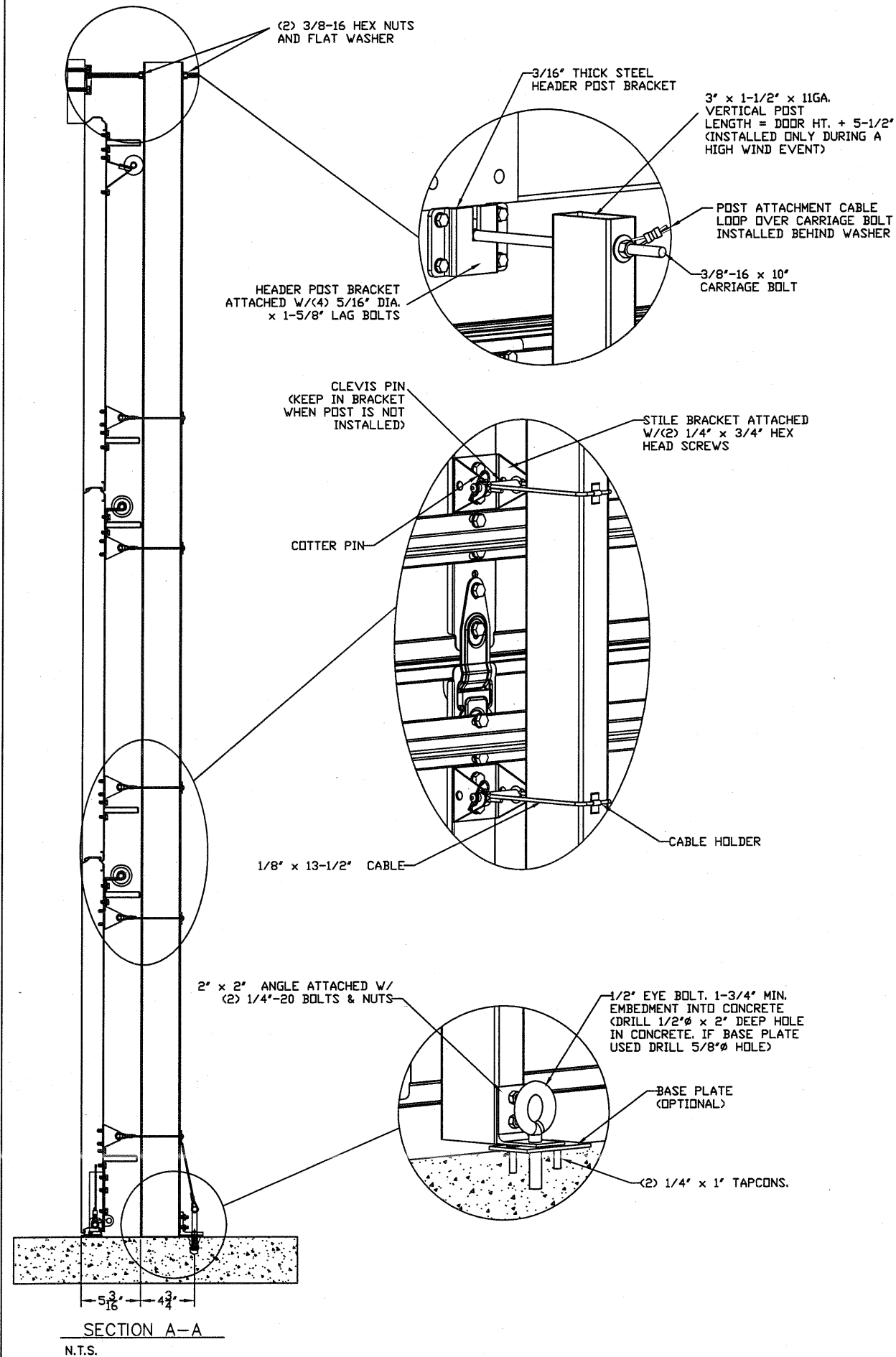
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MODEL #500
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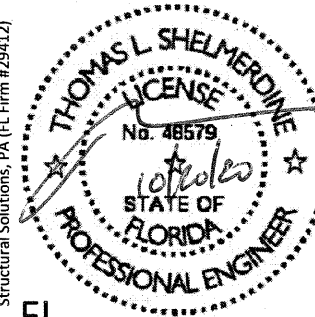
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165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 2 OF 3



REV	DESCRIPTION OF REVISIONS	DATE	BY
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MAX SIZE 9' x 8'	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
DESIGN LOADS +51.1 PSF -60.3 PSF	
TEST LOADS (1.5 x DESIGN LOADS) +76.7 PSF -90.5 PSF	
LARGE MISSILE IMPACT RESISTANCE	



Amarr

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ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 3 OF 3