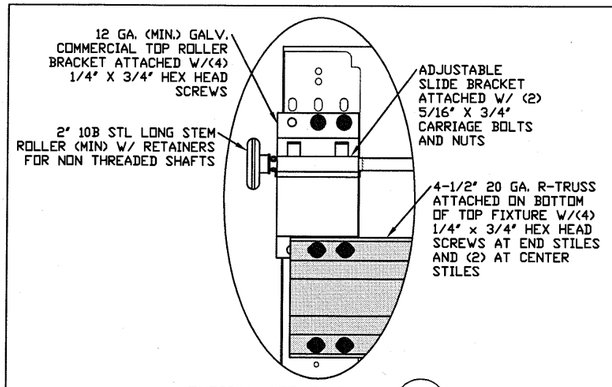
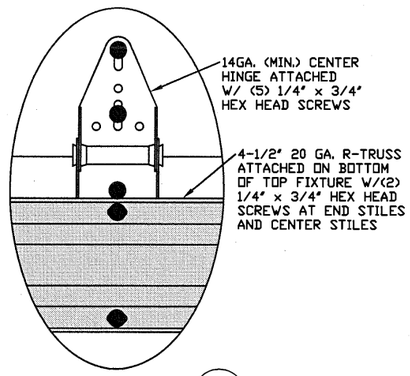
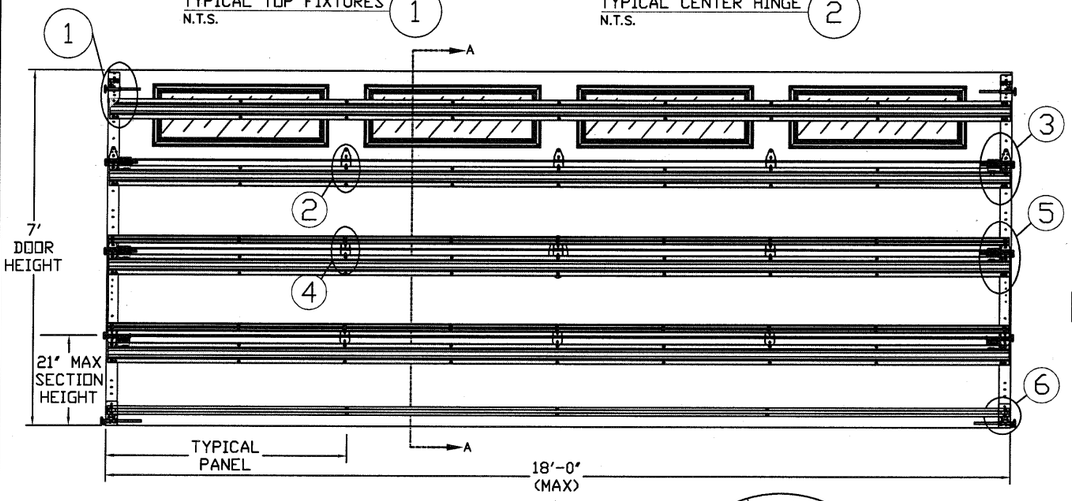


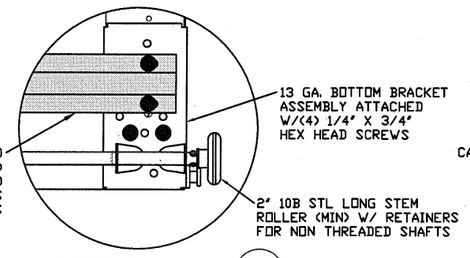
TYPICAL TOP FIXTURES 1
N.T.S.



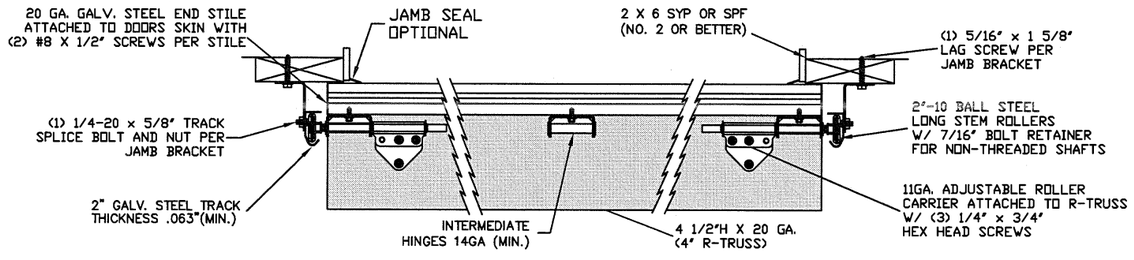
TYPICAL CENTER HINGE 2
N.T.S.



INSIDE ELEVATION
N.T.S.

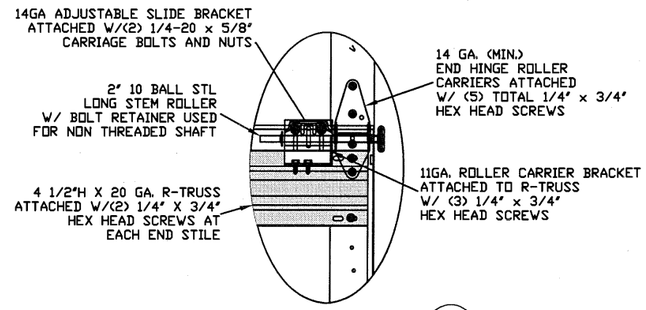


BB-100 BOTTOM BRACKET 6
N.T.S.

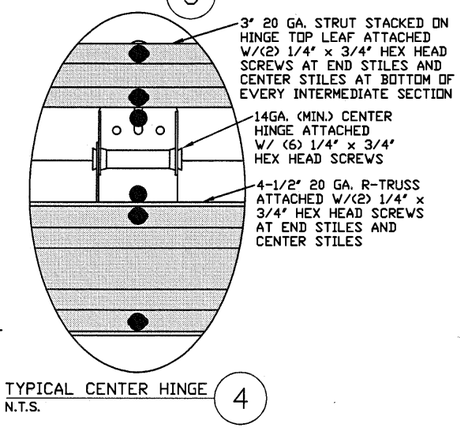


TRACK MOUNTING DETAIL
N.T.S.

LARGE MISSILE IMPACT RESISTANT



TOP SECTION END HINGE 3
N.T.S.



TYPICAL CENTER HINGE 4
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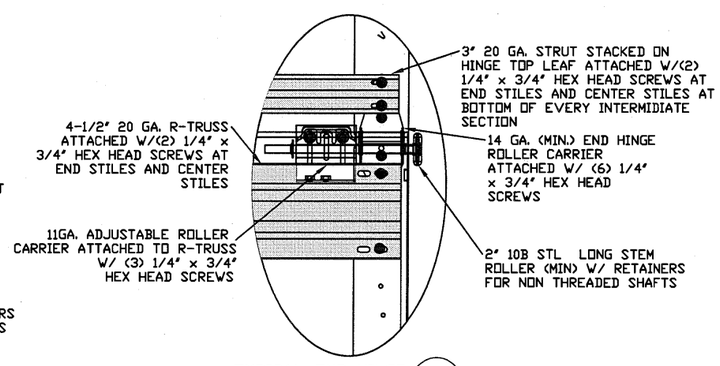
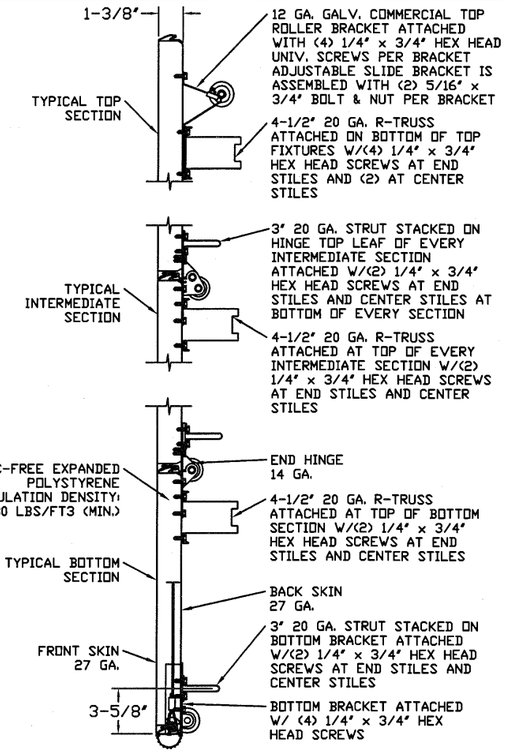


TYPICAL END HINGE 5
N.T.S.

NOTE: FOR STRUT SCHEDULE SEE TABLE 4 ON PAGE 3

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108 & 115, AND ASTM E330, E1886, E1996, & F588. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE I=1.0):

WIND SPEED (MPH)	130	118	112	107	103
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'



SECTION A-A (SIDE VIEW)
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18' x 14'

DESIGN LOADS
+25.4 PSF
-28.7 PSF

TEST LOADS
+38.1 PSF
-43.0 PSF

LARGE MISSILE IMPACT RESISTANT

Thomas L. Shelmerdine, PE (TX PE #85829)
Structural Solutions, PA (TX Firm #F-004063)
5921-G W. Friendly Ave., Greensboro, NC 27410

STATE OF TEXAS
THOMAS L. SHELMERDINE
85829
LICENSED
PROFESSIONAL ENGINEER

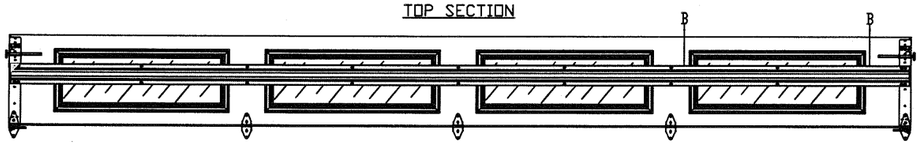
TX

Amarr ENTREMATIC

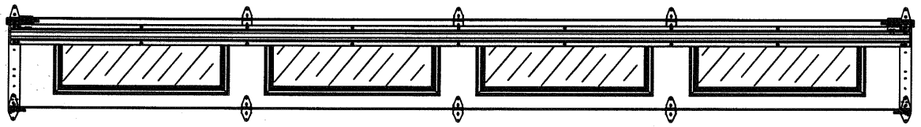
MODEL #3100 AMARR LINCOLN 3138
MODEL #3150 AMARR HILLCREST 3138
MODEL #1600 AMARR LINCOLN 3000
MODEL #1650 AMARR HILLCREST 3000

SIZE	DRAWN BY DRD	DATE 1/23/19	DRAWING NUMBER
B	CHECKED BY RLR	DATE 3/20/19	IRC-3118-130-24-I
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 1 OF 3

TOP SECTION

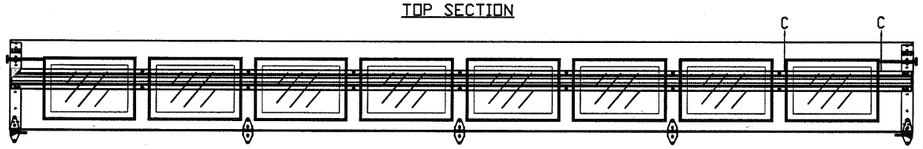


INTERMEDIATE SECTION

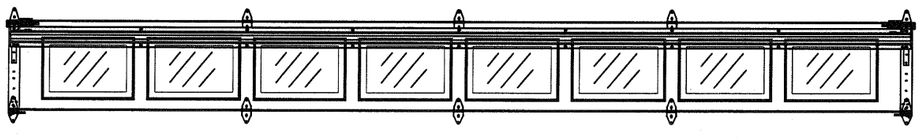


OPTIONAL LONG PANEL GLAZED SECTION R-TRUSS AND STILE LAYOUT
N.T.S.

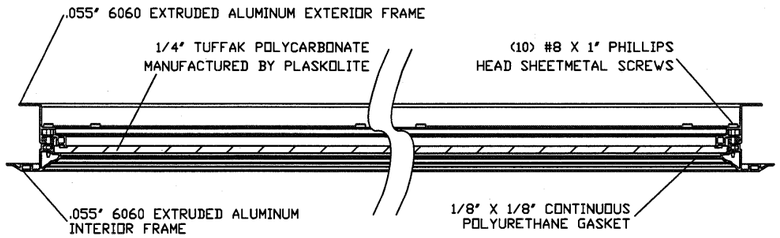
TOP SECTION



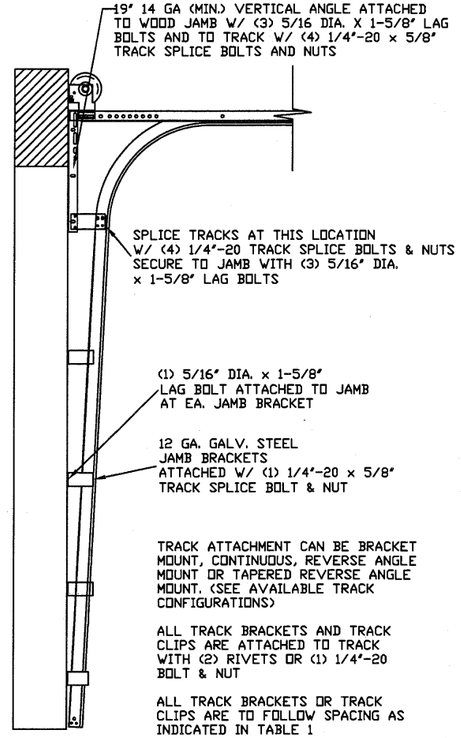
INTERMEDIATE SECTION



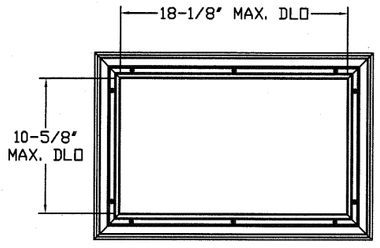
OPTIONAL SHORT PANEL GLAZED SECTION R-TRUSS AND STILE LAYOUT
N.T.S.



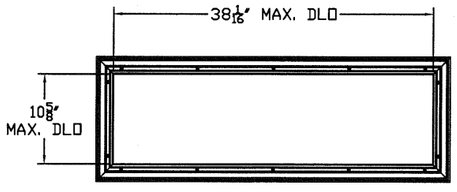
SECTION B-B IMPACT WINDOW DETAIL
N.T.S.



TRACK CONFIGURATION FOR UP TO 14' TALL DOORS
N.T.S.



SHORT PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



LONG PANEL GLAZING FASTENER DETAIL
N.T.S.

TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT								
	A	B	C	D	E	F	G	H	I
6' 6"	3.5"	10"	21"	42"	63"				
7'	3.5"	10"	21"	42"	63"				
7' 6"	3.5"	10"	21"	42"	63"	56"			
8'	3.5"	10"	21"	42"	63"	56"			
8' 6"	3.5"	10"	21"	42"	63"	56"			
9'	3.5"	10"	21"	42"	63"	56"	68"		
9' 6"	3.5"	10"	21"	42"	63"	56"	68"		
10'	3.5"	10"	21"	42"	63"	56"	68"		
10' 6"	3.5"	10"	21"	42"	63"	56"	68"		
11'	3.5"	10"	21"	42"	63"	56"	68"	78"	
11' 6"	3.5"	10"	21"	42"	63"	56"	68"	78"	
12'	3.5"	10"	21"	42"	63"	56"	68"	78"	
12'6"	3.5"	10"	21"	42"	63"	56"	68"	78"	88"
13'	3.5"	10"	21"	42"	63"	56"	68"	78"	88"
13' 6"	3.5"	10"	21"	42"	63"	56"	68"	78"	88"
14'	3.5"	10"	21"	42"	63"	56"	68"	78"	88"

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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' x 14'

DESIGN LOADS
+25.4 PSF
-28.7 PSF

TEST LOADS
+38.1 PSF
-43.0 PSF

LARGE MISSILE IMPACT RESISTANT

Thomas L. Shelmerdine, PE (TX PE #85829)
Structural Solutions, PA (TX Firm #F-004063)

STATE OF TEXAS
THOMAS L. SHELMERDINE
85829
LICENSED
PROFESSIONAL ENGINEER
1/23/19

TX

5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr
ENTREMATIC

MODEL #3100 AMARR LINCOLN 3138
MODEL #3150 AMARR HILLCREST 3138
MODEL #1600 AMARR LINCOLN 3000
MODEL #1650 AMARR HILLCREST 3000

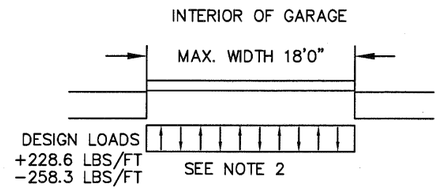
SIZE	DRAWN BY	DRD	DATE	1/23/19	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	3/20/19	IRC-3118-130-24-I

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

SHEET 2 OF 3

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: +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 27GA MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. PANEL STAMP DOES NOT AFFECT WINDLOAD CAPABILITIES.



WOOD JAMB ATTACHMENT TO STRUCTURE

2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 20" 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 18" 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 8" 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 8" 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 22" 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

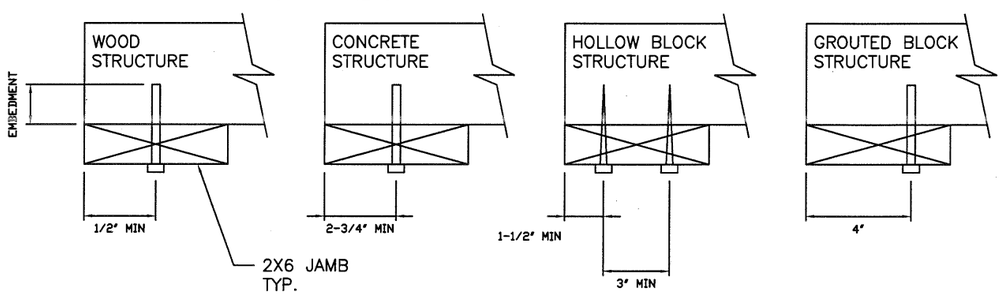


TABLE 2

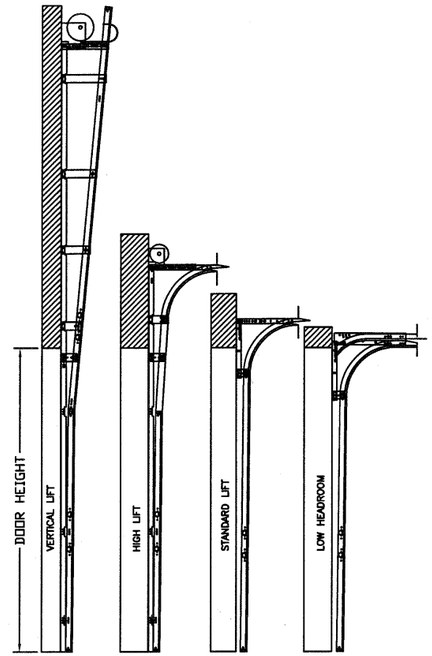
DOOR HEIGHT	SECTION HEIGHTS							
	Btm	#2	#3	#4	#5	#6	#7	#8
6' 0"	18"	18"	18"	18"				
6' 6"	21"	18"	18"	21"				
7' 0"	21"	21"	21"	21"				
7' 6"	18"	18"	18"	18"	18"			
8' 0"	21"	18"	18"	18"	21"			
8' 6"	21"	21"	21"	18"	21"			
9' 0"	18"	18"	18"	18"	18"	18"		
9' 6"	21"	18"	18"	18"	18"	21"		
10' 0"	21"	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 4

SECTION	STRUT SIZE
TOP	
	4.5"
7TH	4.5"
	3"
6TH	4.5"
	3"
5TH	4.5"
	3"
	4.5"
4TH	3"
3RD	4.5"
	3"
2ND	4.5"
	3"
BOTTOM	4.5"
	3"

TABLE 3

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge) 1st (in)	3rd (in)	5th (in)
16' 2	Short	50.27	97.00	143.73
16' 2	Long	51.17	97.00	142.83
16' 2	Hillcrest	48.75	97.00	145.25
16' 4	Short	51.27	98.00	144.73
16' 4	Long	52.17	98.00	143.83
16' 4	Hillcrest	49.08	98.00	146.92
16' 6	Short	52.27	99.00	145.73
16' 6	Long	51.34	99.00	146.66
16' 6	Hillcrest	49.42	99.00	148.59
16' 8	Short	51.34	100.00	148.66
16' 8	Long	52.20	100.00	147.80
16' 8	Hillcrest	49.92	100.00	150.09
16' 10	Short	51.50	101.00	150.50
16' 10	Long	53.20	101.00	148.80
16' 10	Hillcrest	50.15	101.00	151.59
17' 0	Short	53.34	102.00	150.66
17' 0	Long	54.20	102.00	149.80
17' 0	Hillcrest	50.92	102.00	153.09
17' 2	Short	53.00	103.00	153.00
17' 2	Long	55.20	103.00	150.80
17' 2	Hillcrest	51.42	103.00	154.59
17' 4	Short	54.00	104.00	154.00
17' 4	Long	56.20	104.00	151.80
17' 4	Hillcrest	51.92	104.00	156.09
17' 6	Short	55.00	105.00	155.00
17' 6	Long	57.20	105.00	152.80
17' 6	Hillcrest	52.42	105.00	157.59
17' 8	Short	54.80	106.00	157.20
17' 8	Long	55.80	106.00	156.20
17' 8	Hillcrest	52.92	106.00	159.09
17' 10	Short	55.80	107.00	158.20
17' 10	Long	56.25	107.00	157.75
17' 10	Hillcrest	53.42	107.00	160.59
18' 0	Short	57.25	108.00	158.75
18' 0	Long	57.80	108.00	158.20
18' 0	Hillcrest	53.92	108.00	162.09



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18' x 14'
DESIGN LOADS +25.4 PSF −28.7 PSF
TEST LOADS +38.1 PSF −43.0 PSF
LARGE MISSILE IMPACT RESISTANT

Thomas L. Shelmerdine, PE (TX PE #85829) Structural Solutions, PA (TX Firm #F-004063)

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SIZE	DRAWN BY DRD	DATE 1/23/19	DRAWING NUMBER
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ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 3 OF 3