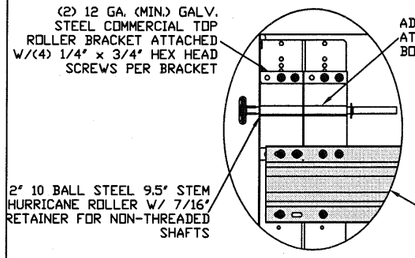
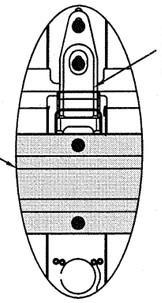


TYPICAL TOP FIXTURES 1
N.T.S.



TYPICAL DURASAFE CENTER HINGE 2
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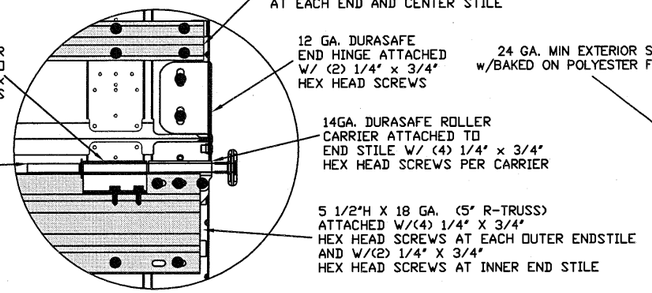

TYPICAL TOP SECTION DURASAFE END HINGE 3
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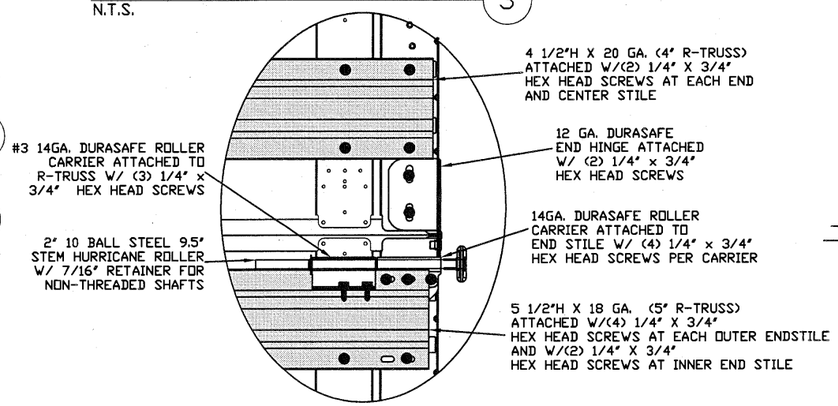
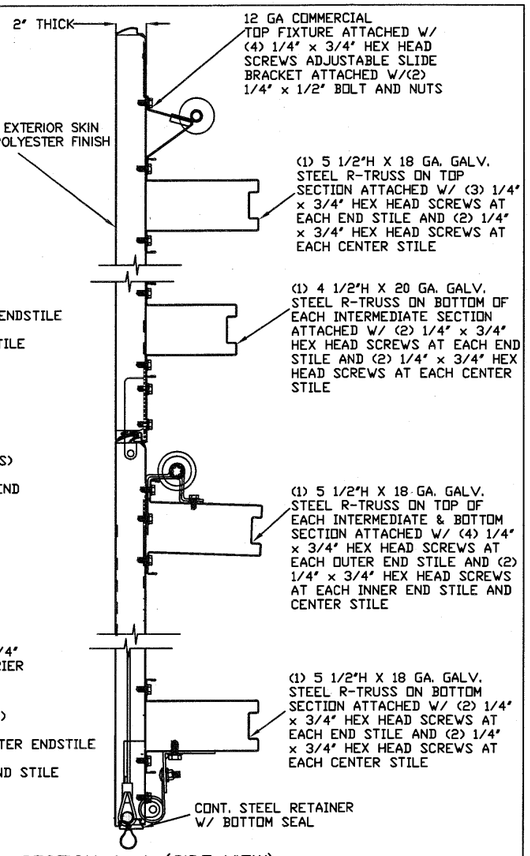
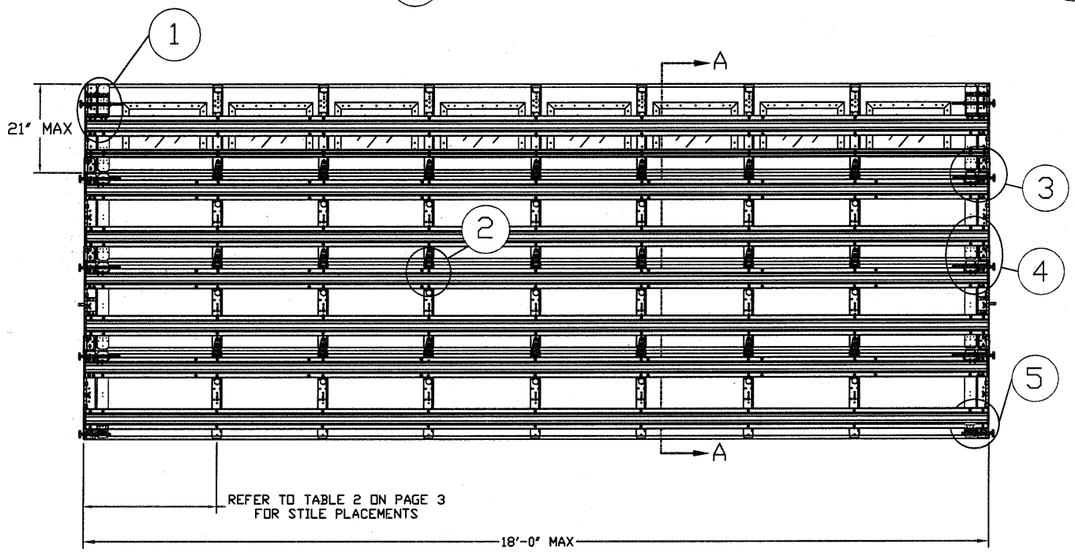


TYPICAL INTERMEDIATE DURASAFE END HINGE 4
N.T.S.

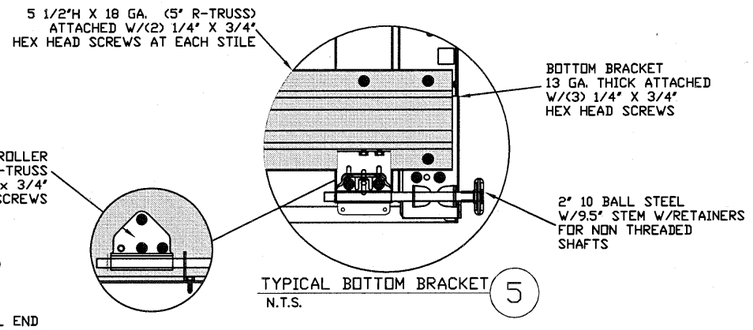


SECTION A-A (SIDE VIEW)
N.T.S.

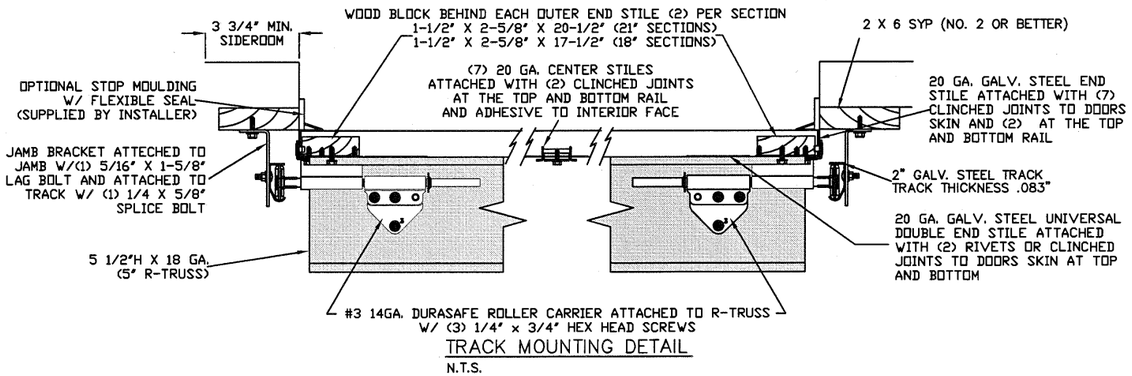


INSIDE ELEVATION
N.T.S.

LARGE MISSLE IMPACT RESISTANT



TYPICAL BOTTOM BRACKET 5
N.T.S.



TRACK MOUNTING DETAIL
N.T.S.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, E1886, E1996, F588 AND DASMA 108, 115. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE, AND I=1.0):

WIND SPEED (MPH)	180	163	155	148	142
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
+48.6 PSF
-55.0 PSF

TEST LOADS
+72.9 PSF
-82.5 PSF

LARGE MISSLE 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
TX

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

ENTREMATIC

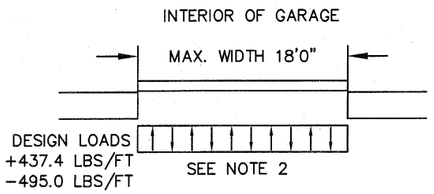
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM

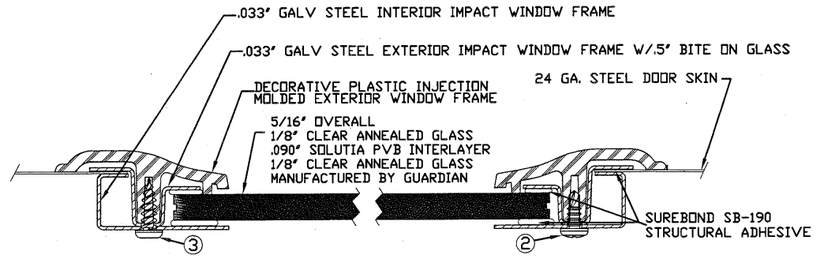
MODEL #950 AMARR HERITAGE (24 GA) 1000, 2000
MODEL #655 AMARR OAK SUMMIT (24 GA) 1000, 2000
SHORT, LONG, FLUSH, AND OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	09/30/15	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	09/30/15	IRC-9518-180-26-I
					SHEET 1 OF 3

SPECIFICATIONS AND NOTES

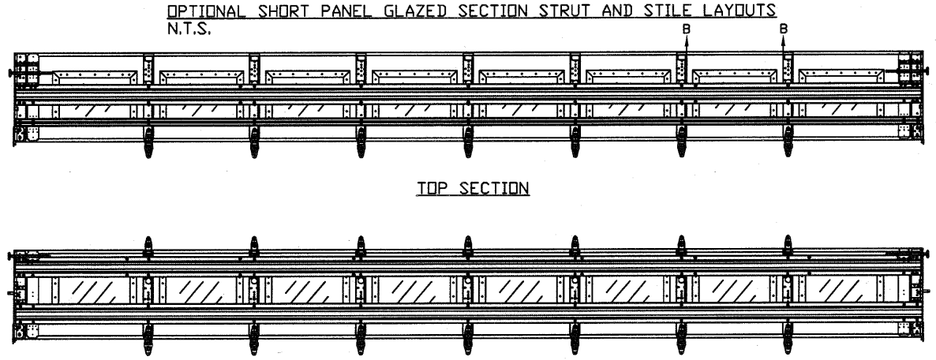
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +437.4 LBS/FT & −495.0 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.0216) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN. USE (1) 5 1/2" R−TRUSS AND (1) 3" STRUT ON TOP SECTION, (1) 5 1/2" R−TRUSS AND (1) 4 1/2" R−TRUSS PER INTERMEDIATE SECTION, & (2) 5 1/2" R−TRUSS ON THE BOTTOM SECTION
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.



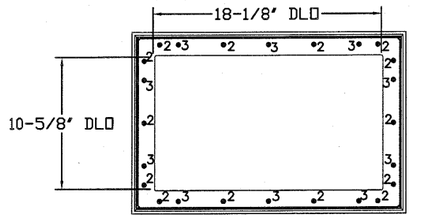


2. 3/16" X 1/2" SCREW − USED TO FASTEN THE STEEL EXTERIOR IMPACT WINDOW FRAME TO THE STEEL INTERIOR IMPACT WINDOW FRAME.
3. 11/64" X 1/2" SCREW − USED TO FASTEN DECORATIVE PLASTIC MOLDED WINDOW FRAME TO THE ASSEMBLY

OPTIONAL SHORT PANEL GLAZED SECTION STRUT AND STILE LAYOUTS
N.T.S.

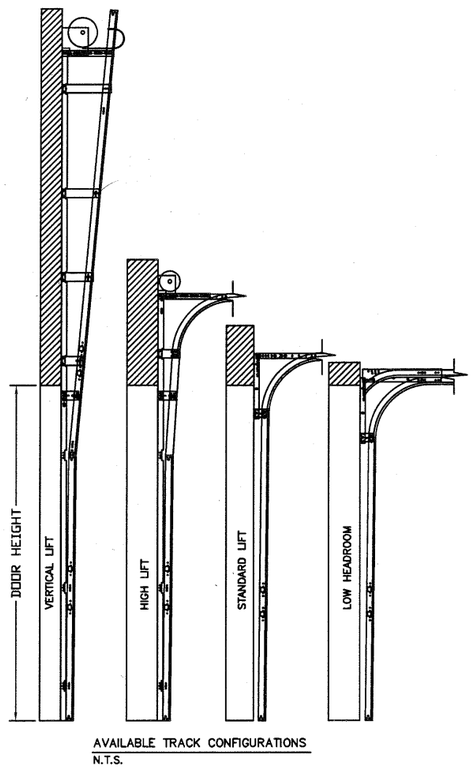


SECTION B−B IMPACT WINDOW DETAIL
N.T.S.



IMPACT GLAZING FASTENER DETAIL
N.T.S.

GLAZING MEETS ASTM E1300−04



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

WOOD JAMB ATTACHMENT TO STRUCTURE

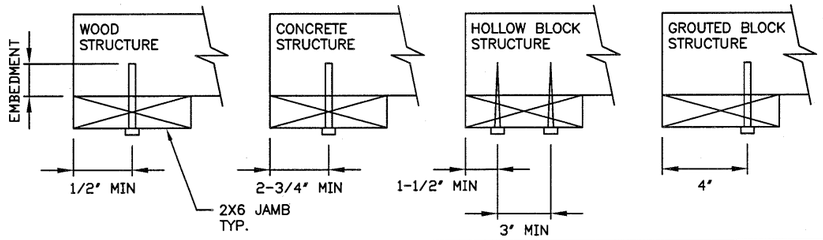
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 10" O.C. (1 1/2" EMBEDMENT)

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 10" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU−BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 18" 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 10" 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



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' x 14'

DESIGN LOADS
+48.6 PSF
−55.0 PSF

TEST LOADS
+72.9 PSF
−82.5 PSF

LARGE MISSLE IMPACT RESISTANCE

Thomas L. Shelmerdine, PE (TX PE #85829)
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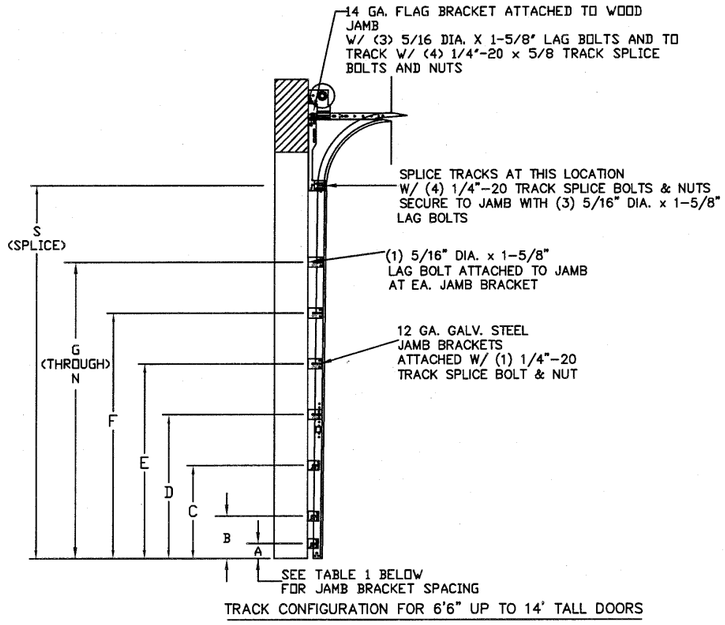
MODEL #655 AMARR OAK SUMMIT (24 GA) 1000, 2000
SHORT, LONG, FLUSH, AND OAK SUMMIT PANELS

SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	RLR	09/30/15	IRC−9518−180−26−I
	CHECKED BY RLR	DATE 09/30/15	
			SHEET 2 OF 3



TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS

TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	S
6' 6"	3.5"	10"	22"	34"	46"	58"									70"
7'	3.5"	10"	22"	34"	46"	58"	70"								76"
7' 6"	3.5"	10"	22"	34"	46"	58"	70"								82"
8'	3.5"	10"	22"	34"	46"	58"	70"	82"							88"
8' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"							94"
9'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						100"
9' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						106"
10'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					112"
10' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					118"
11'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				124"
11' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				130"
12'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			136"
12'6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			142"
13'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		148"
13' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		154"
14'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	160"

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

TABLE 2

Section		Center Stile Locations (Measured from Left Edge)						
Width (ft)	Panel Type	1st (in)	2nd (in)	3rd (in)	4th (in)	5th (in)	6th (in)	7th (in)
16' 2	Short	26.91	50.27	73.64	97.00	120.36	143.73	167.09
16' 2	Long	28.25	51.17	74.08	97.00	119.92	142.83	165.75
16' 4	Short	27.91	51.27	74.64	98.00	121.36	144.73	168.09
16' 4	Long	29.25	52.17	75.08	98.00	120.92	143.83	166.75
16' 6	Short	28.91	52.27	75.64	99.00	122.36	145.73	169.09
16' 6	Long	27.51	51.34	75.17	99.00	122.83	146.66	170.49
16' 8	Short	27.01	51.34	75.67	100.00	124.33	148.66	172.99
16' 8	Long	28.30	52.20	76.10	100.00	123.90	147.80	171.70
16' 10	Short	26.75	51.50	76.25	101.00	125.75	150.50	175.25
16' 10	Long	29.30	53.20	77.10	101.00	124.90	148.80	172.70
17' 0	Short	29.01	53.34	77.67	102.00	126.33	150.66	174.99
17' 0	Long	30.30	54.20	78.10	102.00	125.90	149.80	173.70
17' 2	Short	28.00	53.00	78.00	103.00	128.00	153.00	178.00
17' 2	Long	31.30	55.20	79.10	103.00	126.90	150.80	174.70
17' 4	Short	29.00	54.00	79.00	104.00	129.00	154.00	179.00
17' 4	Long	32.30	56.20	80.10	104.00	127.90	151.80	175.70
17' 6	Short	30.00	55.00	80.00	105.00	130.00	155.00	180.00
17' 6	Long	33.30	57.20	81.10	105.00	128.90	152.80	176.70
17' 8	Short	29.20	54.80	80.40	106.00	131.60	157.20	182.80
17' 8	Long	30.70	55.80	80.90	106.00	131.10	156.20	181.30
17' 10	Short	30.20	55.80	81.40	107.00	132.60	158.20	183.80
17' 10	Long	30.88	56.25	81.63	107.00	132.38	157.75	183.13
18' 0	Short	31.88	57.25	82.63	108.00	133.38	158.75	184.13
18' 0	Long	32.70	57.80	82.90	108.00	133.10	158.20	183.30

REV	DESCRIPTION OF REVISIONS	DATE	BY

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	CHECKED BY RLR	DATE 09/30/15	
			SHEET 3 OF 3