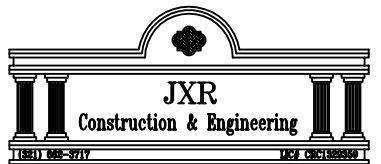


SOLAHART 302J
INSTALLATION DETAIL

ENGINEER:
SALMAN ALAN AYASH, P.E.
13229 SHARSWOOD
ORLANDO, FL 32828
(407)-716-7394 Lic# 49421



drawn by
J. RODRIGUEZ
checked by
J.R.
date
12-14-09
scale
1/2"=1'-0"
job no.

drawing no.
S-1

Thermosiphon J and J Free Heat Closed Circuit Systems

These systems are suitable for multiple installations. They are suitable for frost and harsh water regions.

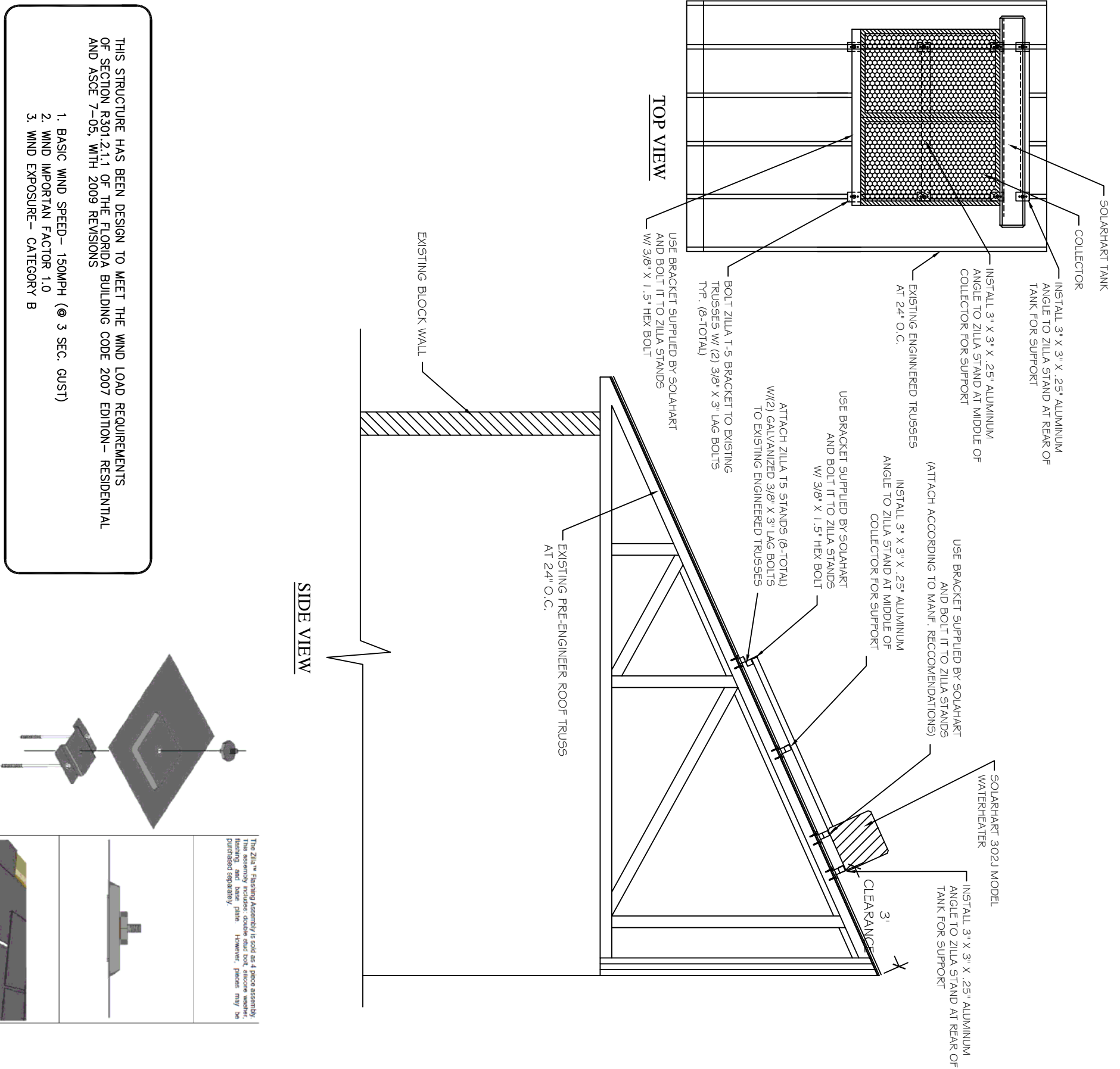
J and J Free Heat Systems																		
Model	150	151	180	181	182	220	221	222	300	301	302	303	400	440	441	442	443	444
Tank model																		
J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
J Free Heat	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Collector model	150F	180F	180F	220F	220F	300F	300F	440F	440F	440F	440F	440F	440F	440F	440F	440F	440F	440F
No. of collectors	1	1	1	1	1	2	1	2	1	1	2	3	3	3	3	3	3	3
Storage capacity	US-gal 40	US-gal 40	US-gal 48	US-gal 48	US-gal 58	US-gal 58	US-gal 80	US-gal 80	US-gal 80	US-gal 80	US-gal 116	US-gal 116	US-gal 116	US-gal 116	US-gal 116	US-gal 116	US-gal 116	US-gal 116
Deliver capacity	US-gal 130	US-gal 130	US-gal 150	US-gal 150	US-gal 160	US-gal 160	US-gal 200	US-gal 200	US-gal 240	US-gal 240	US-gal 240	US-gal 240	US-gal 240	US-gal 240	US-gal 240	US-gal 240	US-gal 240	US-gal 240
Booster capacity (electric or gas)	US-gal 34	US-gal 34	US-gal 42	US-gal 42	US-gal 42	US-gal 53	US-gal 53	US-gal 63	US-gal 63	US-gal 63	US-gal 63	US-gal 63	US-gal 63	US-gal 63	US-gal 63	US-gal 63	US-gal 63	US-gal 63
Weight empty	kg 56	kg 102	kg 66	kg 108	kg 154	kg 78	kg 124	kg 170	kg 90	kg 145	kg 187	kg 229	kg 148	kg 280	kg 320	kg 320	kg 320	kg 320
Weight full	kg 206	kg 256	kg 245	kg 292	kg 340	kg 172	kg 273	kg 375	kg 218	kg 320	kg 412	kg 505	kg 328	kg 639	kg 785	kg 785	kg 785	kg 785
A - Width	m 1.40	m 1.40	m 1.62	m 1.62	m 2.42	m 1.88	m 2.04	m 2.42	m 2.43	m 2.43	m 3.38	m 3.41	m 3.40	m 4.44	m 4.44	m 4.44	m 4.44	m 4.44
B - length	m 0.51	m 2.48	m 0.51	m 2.48	m 0.51	m 1.84	m 2.48	m 0.51	m 1.84	m 2.48	m 0.51	m 1.84	m 2.48	m 0.51	m 1.84	m 2.48	m 0.51	m 1.84

*The J and J free heat systems can be installed in a solar panel with an in-line solar panel booster heater. Refer to the Solar panel booster specification sheet for further details on the gas booster.

J Collector	
Aperture (heating area)	m ² 1.87
Dimensions	length mm 1937
	width mm 1022
	height mm 77
Capacity	empty US-gal 0.9
	full US-gal 3.5
Weight	empty kg 46
	full kg 80
Working pressure	psi 12
Absorber surface	Back polyester powder coat
Absorber material	steel
Riser material	steel
Number of risers	50
Try material	0.6 mm aluminum
Insulation material	55 mm polyester blanket
Glass	3.2 mm tempered low iron

J and J Free Heat	
Water Supply	TRV valve setting kPa 1000
	EVV setting kPa 850
	Max. supply pressure with EVV kPa 680
	without EVV kPa 800
Water Connections	input/output IPF N/1/20
	without EVV cond R 1/2/15

Zilla™ Two Piece Threaded Standoff	
asphalt	ZSQC2PC-2.5AL
	ZSQC2PC-6.5AL
tile	ZSQC2PC-11.5AL
	ZSQC2PC-2.5AL
	ZSQC2PC-6.5AL
	ZSQC2PC-11.5AL
	ZSQC2PC-2.5AL
	ZSQC2PC-6.5AL
	ZSQC2PC-11.5AL
	ZSQC2PC-11.5SS



THIS STRUCTURE HAS BEEN DESIGN TO MEET THE WIND LOAD REQUIREMENTS OF SECTION R301.2.1.1 OF THE FLORIDA BUILDING CODE 2007 EDITION - RESIDENTIAL AND ASCE 7-05, WITH 2009 REVISIONS

1. BASIC WIND SPEED - 150MPH (@ 3 SEC. GUST)
2. WIND IMPORTAN FACTOR 1.0
3. WIND EXPOSURE - CATEGORY B