HELIOCOL COLLECTOR GENERAL NOTES:

1. APPLICABLE CODE: 2023 FLORIDA RESIDENTIAL CODE (8TH EDITION) & ASCE-7-22 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

2. BOLT DIAMETER AND EMBEDMENT LENGTHS ARE DESIGNED PER 2023 FLORIDA BUILDING CODE (8TH EDITION) REQUIREMENTS. ALL BOLT CAPACITIES ARE BASED ON A SOUTHERN YELLOW PINE (SYP) RESIDENTIAL WOOD ROOF TRUSS AS EMBEDMENT MATERIAL. . WIND DESIGN CRITERIA AND PARAMETERS ARE FOR HIP AND GABLE RESIDENTIAL ROOFS, CONSIDERING FROM A 7° TO A MAXIMUM 27 ° (2/12 TO A MAXIMUM 6/12 PITCH) ROOF WITH A MEAN ROOF HEIGHT NOT EXCEEDING 30 FT AND RISK CATEGORY II. SEE WIND PRESSURE TABLE BELOW. 4. WIND TUNNEL TEST DATA FOR THIS COLLECTOR MAY BE REQUESTED THROUGH MAGEN ECO ENERGY AND HAS BEEN COMPILED BY PRI CONSTRUCTION AND MATERIAL TESTING, INC. 5. ROOF SEALANTS SHALL CONFORM TO ASTM C920 AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PILOT FILL ALL HOLES PRIOR TO INSTALLATION OF BOLTS. 6. THE CONTRACTOR SHALL REFER TO THE HELIOCOL INSTALLATION MANUAL OR AUTHORIZED HELIOCOL REPRESENTATIVE FOR ALL INSTALLATION INSTRUCTIONS FOR THE HELIOCOL COLLECTOR.

7. LAG SCREW SHALL BE ASTM A276 TYPE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED AND CONTRACTOR SHALL EMBED LAG SCREW 2.5" OF THREADED EMBEDMENT INTO THE TRUSS. 8. ALL HELIOCOL COLLECTOR MODELS MAY BE INSTALLED PER THIS STRUCTURAL CONNECTION DRAWING.

9. CONTRACTOR SHALL ENSURE ALL ROOF PENETRATIONS TO BE WATERTIGHT AND SEALED PER 2023 FLORIDA BUILDING CODE (8TH EDITION) OR LOCAL GOVERNING CODE.

10. THE ADDITION OF THE HELIOCOL COLLECTOR SYSTEM ADDS APPROXIMATELY 1 PSF TO THE ROOF STRUCTURE AND WILL NOT ADVERSELY AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING.

EXPOSURE C - p_{net30} Pressures - Gable Roof > 7 to 27 Degrees - 10 ft ² Tributary Area												
Vult	ROOF	GRC	UP 1	GRO	UP 2	GROUP 3						
(MPH)	PITCH	Wind Zone 1		Wind Zone 2		Wind Zone 3						
140	7-20°	22.4	-54.7	22.4	-79.9	22.4	-94.9					
	20-27°	22.4	-42.2	22.4	-67.2	22.4	-86.7					
EXPOSURE C - p_{net30} Pressures - Hip Roof > 7 to 27 Degrees - 10 ft ² Tributary Area												
Vult	ROOF	GROUP 1 Wind Zone 1		GROUP 2 Wind Zone 2		GROUP 3						
(MPH)	PITCH					Wind Zone 3						
140	7-20°	22.4	-49.7	22.4	-64.8	22.4	-69.8					
	20-27°	22.4	-39.7	22.4	-54.7	22.4	-54.7					

TABLE ABOVE REFLECTS COMPONENTS AND CLADDING (ASD) PRESSURES FROM SECTION 30 OF THE ASCE 7-22 AS REQUIRED BY THE 2023 FLORIDA RESIDENTIAL CODE (8TH EDITION) SECTION R324.2, M2301.2.2.1 AND R905.1 (SOLAR THERMAL SYSTEMS). NOTE: THIS IS NOT A SOLAR PHOTOVOLTAIC SYSTEM



TYPICAL MULTIPLE COLLECTOR ARRAY PLAN SCALE: N.T.S.



HELIOCOL COLLECTOR -RISER SYSTEM TYP. HELIOCOL LONG -CLAMP 2'-0" O.C. TYP. (2) #6 HEX ŚĆREWS $\frac{3}{4}$ " LENGTH TYP PER HELIOCOL CLAMP SHEATHING -WOOD ROOF TYP TRUSS TYP. ROOF ASPHALT SHINGLES OR 5V METAL ROOF TYP. ¹/₄" DIA. ST STL LAG **BOLT - SEE NOTES** FOR EMBED. DEPTH

REQ. TYP. EACH

5

HC-2

CLAMP



		-					l≌ %
		MICHAEL BOBIC RECIDENCE		SOLAR POOL SYSTEM RETROIT 164 sw vermont way Lake gity, fl 32025	SOLAR POOL SYSTEM IMPROVEMENT	CONSTRUCTION DOCUMENT	DO NOT SCALE DRAWINGS CONTRACTORS SHILL VERPY AND BE RE SEONSBLE FOR ALL DIRENSIONS AND CONDITIONS ON THE JOB AND T OFFICE NUST BE NOTFEEDOF ANY WARATION FROM THE DIRENSIONS AND CONDITIONS SHOWN BY THESE DRAWING
			APPROVED				
HELIOCOL SHORT CLAMP 2'-0" O.C. TYP. COL COLLECTOR SYSTEM TYP. HELIOCOL LONG CLAMP 2'-0" O.C. TYP. (2) #6 HEX SCREWS - ³ / ₄ " LENGTH TYP PER HELIOCOL CLAMP WOOD SHEATHING TYP NGLES	WOOD ROOF TRUSS TYP. ROOF ASPHALT SHINGLES OR 5V METAL ROOF TYP.	REVISIONS	DESCRIPTION DESCRIPTION	IEFFRE RRES, PE #	Y A. , P.E. 80379		HTS M THE SEF PLANS. THESE FLANS AND DRAWINGS ARE NOT TO BE WIND THE EXPRESS PERMISSION AND COOREDH OF THE DE SISARED, NOR ARE
¹ " DIA ST STL- ALL-THRD ROD W/ NUT - WASHERS MAX. 3'-0" O.C LOCTITE ALL NUTS TYP. ALL CONNECTIONS LIMITED SPACE OPTION FOR UNALIGN OPTIONAL ALL THREAD CONNECTION DETAIL	5V METAL ROOF TYP. 2X PT S.Y.P. WOOD OR ALUMINUM UNISTRUT CONT. ALONG COLLECTOR ED TRUSS	SUNSMA ENGINEERIN FL COA # 925 SUNSHII SUITE # ALTAMONTE FL, 327 DOCUME NOT VA WITHOUT AND SE			ART NG LLC 35170 NE LANE 1010 SPRINGS 714 ENT LID SIGN EAL		CORD HEREBY EXPRESSLY RESERVES HIS COPYRIGHT AND OTHER PROPERTY RIGHTS HANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAMIN
SCALE: 1"=1'-0"		Do Sł	ate: nee	5/29 t 1	1/202 of 1	24	NGINEER OF RELETER