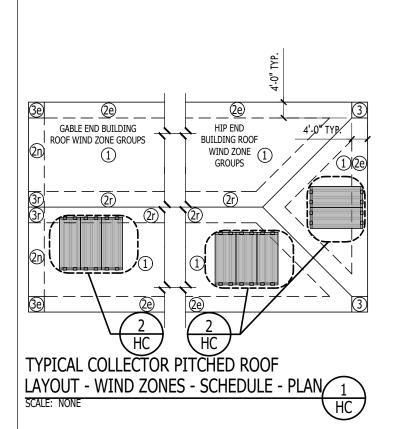
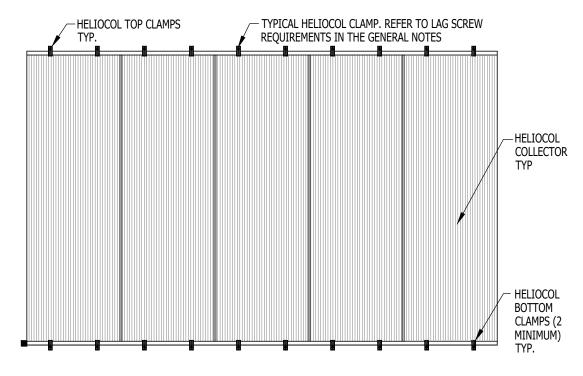
HELIOCOL COLLECTOR GENERAL NOTES:

- 1. APPLICABLE CODE: 2020 FLORIDA RESIDENTIAL CODE (7TH EDITION) & ASCE-7-16 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.
- 2. BOLT DIAMETER AND EMBEDMENT LENGTHS ARE DESIGNED PER 2020 FLORIDA BUILDING CODE (7TH EDITION) REQUIREMENTS. ALL BOLT CAPACITIES ARE BASED ON A SOUTHERN YELLOW PINE (SYP) RESIDENTIAL WOOD ROOF TRUSS AS EMBEDMENT MATERIAL.
- 3. 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 UMA SOLAR, INC.
- 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 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 2020 FLORIDA BUILDING CODE (7TH 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.

Vult (MPH)	ROOF PITCH	GROUP 1 1, 2e		GROUP 2 2n, 2r, 3e		GROUP 3 3r	
20-27°	22.4	-42.2	22.4	-67.2	22.4	-85.7	
EXPOSU	RE C - p _{netoc}	Pressure	s - Hip Roof	> 7 to 27 [Degrees - 1	ft² Tribut	ary Area
Vult (MPH)	ROOF	GROUP 1		GROUP 2		GROUP 3	
	PITCH	1		2r		2e, 3	
				- 3			
9.00	7-20°	22,4	-49.7	22.4	-64.8	22.4	-69.8
140	7-20° 20-27°	22.4 22.4	-49.7 -39.7	22.4	-64.8 -54.7	22.4	-69.8 -54.7

TABLE ABOVE REFLECTS COMPONENTS AND CLADDING (ASD) PRESSURES FROM SECTION 30 OF THE ASCE 7-16 AS REQUIRED BY THE 2020 FLORIDA RESIDENTIAL CODE (7TH EDITION) SECTION R324.2 (SOLAR THERMAL SYSTEMS).



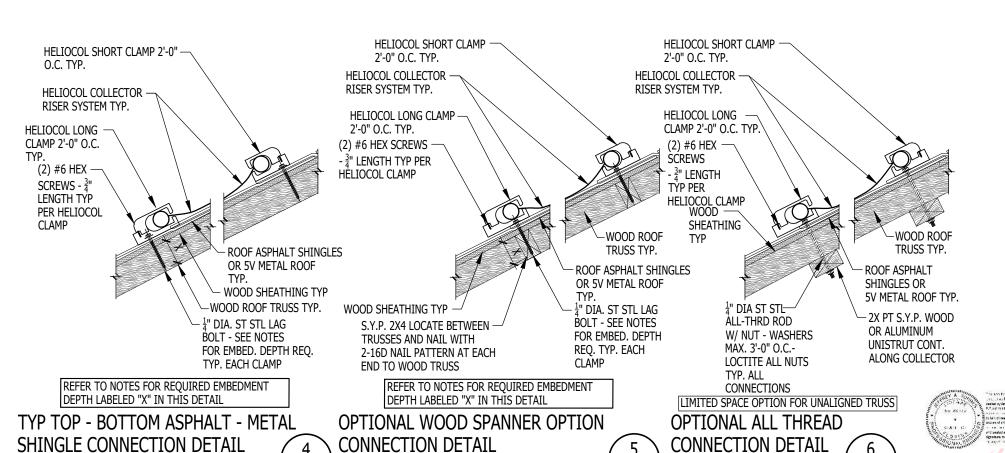


SCALE: 1"=1'-0'

TYPICAL MULTIPLE COLLECTOR ARRAY PLAN

SCALE: N.T.S.

SCALE: 1"=1'-0"



SCALE: 1"=1'-0"

BOATRI SOLAR PC w red maple

JEFFREY A. TORRES, P.E. FL PE #80379

SUNSMART ENGINEERING LLC FL COA #35170 925 SUNSHINE LANE SUITE #1010 ALTAMONTE SPRINGS FL, 32714

Digitally signed by Jeffrey A Torres Date: 2023.02.16 07:06:24 -05'00'

Date: 2/16/2023 Sheet 1 of 1