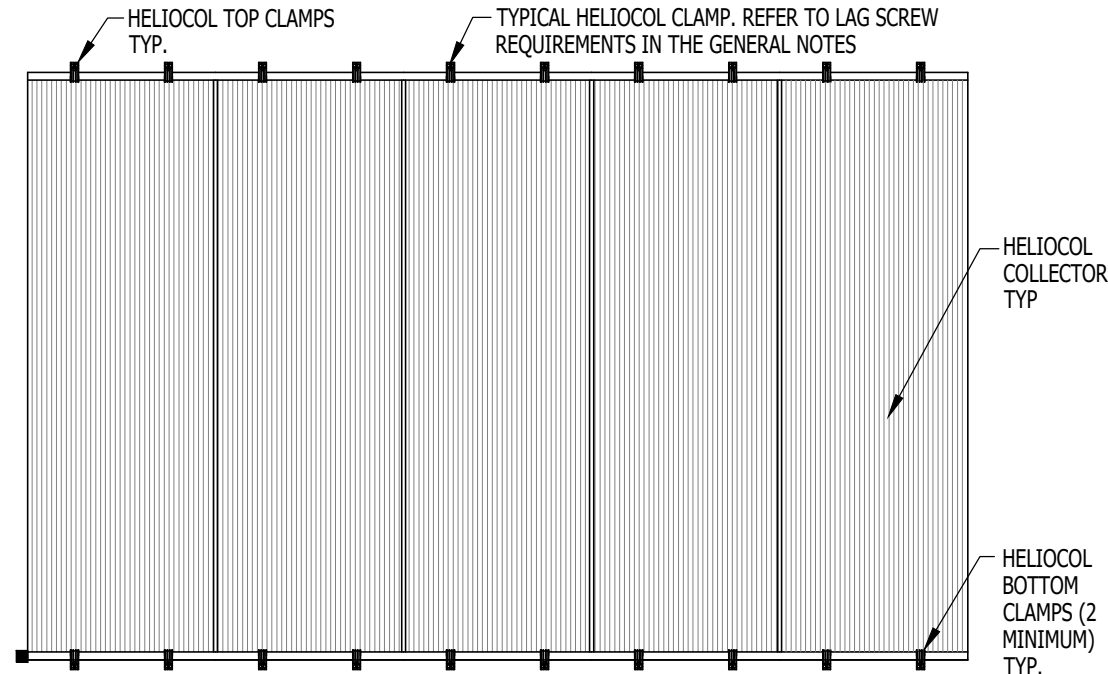


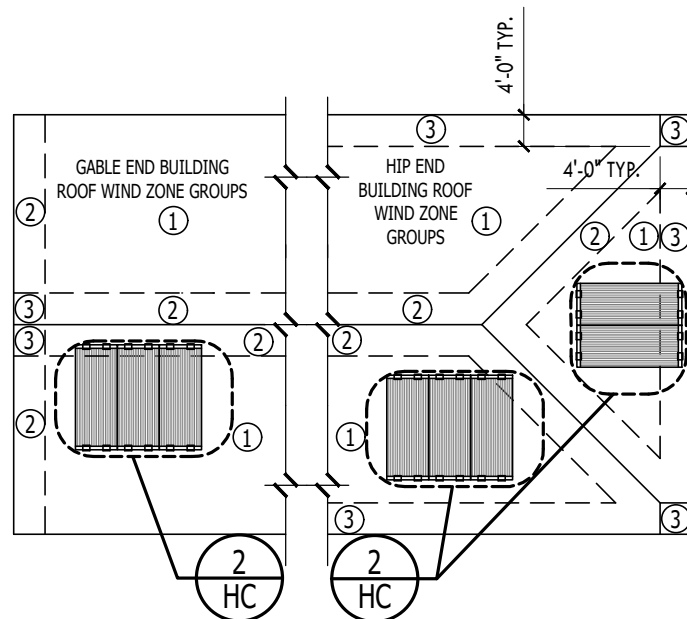
1. APPLICABLE CODE: 2023 FLORIDA RESIDENTIAL CODE (8TH EDITION) & ASCE-7-22 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.
2. BOLT DIAMETER AND EMBEDMENT LENGTHS ARE DESIGNED PER 2023 FLORIDA BUILDING CODE (8TH EDITION) REQUIREMENTS. ALL BOLT CAPACITIES ARE BASED ON A SOUTHERN YELLOW PINE (SYP) RESIDENTIAL WOOD ROOF TRUSS AS EMBEDMENT MATERIAL.
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 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 HELIOLC INSTALLATION MANUAL OR AUTHORIZED HELIOLC REPRESENTATIVE FOR ALL INSTALLATION INSTRUCTIONS FOR THE HELIOLC 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 HELIOLC 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 HELIOLC COLLECTOR SYSTEM ADDS APPROXIMATELY 1 PSF TO THE ROOF STRUCTURE AND WILL NOT ADVERSELY AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING.

| EXPOSURE C - $p_{net(30)}$ Pressures - Gable Roof > 7 to 27 Degrees - 10 ft^2 Tributary Area | | | | | | | |
|--|---------------|-------------|-------------|-------------|-------|------|-------|
| Vult (MPH) | ROOF PITCH | GROUP 1 | GROUP 2 | GROUP 3 | | | |
| | | 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 | -61.2 | 22.4 | -86.7 |
| EXPOSURE C - $p_{net(30)}$ Pressures - Hip Roof > 7 to 27 Degrees - 10 ft^2 Tributary Area | | | | | | | |
| Vult (MPH) | ROOF PITCH | GROUP 1 | GROUP 2 | GROUP 3 | | | |
| | | Wind Zone 1 | Wind Zone 2 | 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 |

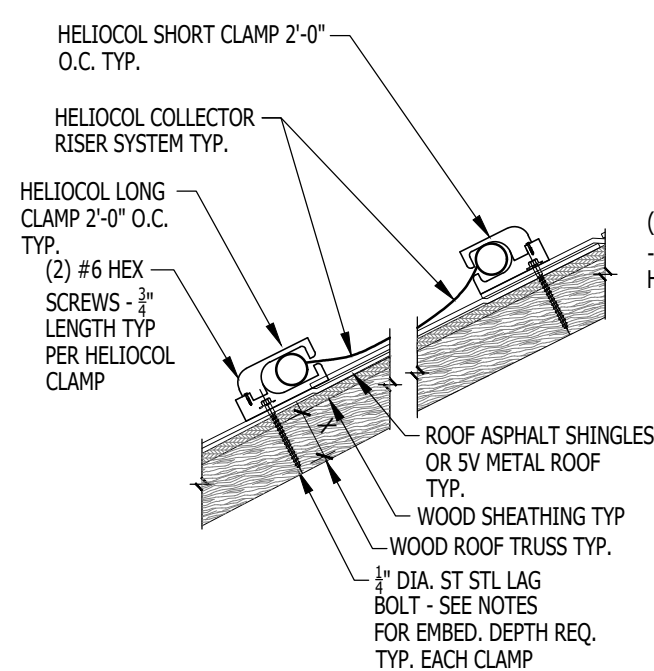
TABLE ABOVE REFLECTS COMPONENTS AND CLADDING (ASD) PRESSURES FROM SECTION 30 OF THE ASCE 7-22 AS REQUIRED BY THE 2023 FLORIDA RESIDENTIAL CODE (8TH EDITION) SECTION R324.2, M2301.2.2.1 AND R905.1 (SOLAR THERMAL SYSTEMS).
NOTE: THIS IS **NOT** A SOLAR PHOTOVOLTAIC SYSTEM



SCALE: N.T.S.



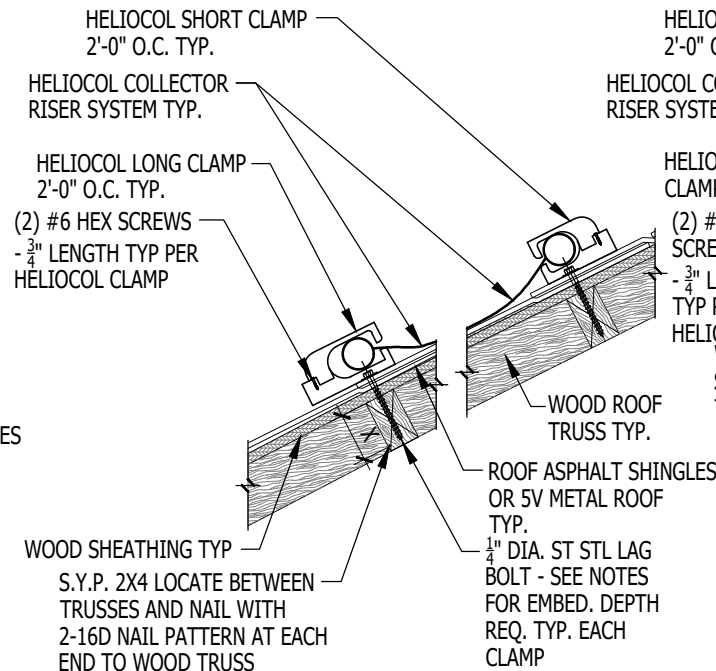
SCALE: NONE

$$\frac{1}{HC}$$


REFER TO NOTES FOR REQUIRED EMBEDMENT
DEPTH LABELED "X" IN THIS DETAIL

SCALE: 1"=1'-0"

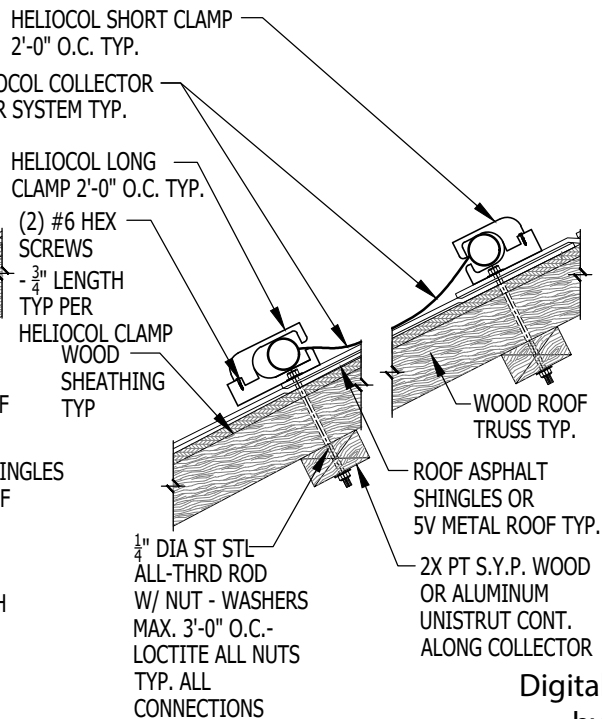
4
HC-2



REFER TO NOTES FOR REQUIRED EMBEDMENT
DEPTH LABELED "X" IN THIS DETAIL

SCALE: 1"=1'-0"

5
HC-2



LIMITED SPACE OPTION FOR UNALIGNED TRUSS

SCALE: 1"=1'-0"



'08:23:38 -04'00



Date: 5/29/2024

Sheet 1 of 1

MICHAEL BORIS RESIDENCE

SOLAR POOL SYSTEM RETROIT
164 SW VERMONT WAY
LAKE CITY, FL 32025

SOLAR POOL SYSTEM IMPROVEMENT

CONSTRUCTION DOCUMENT

OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.