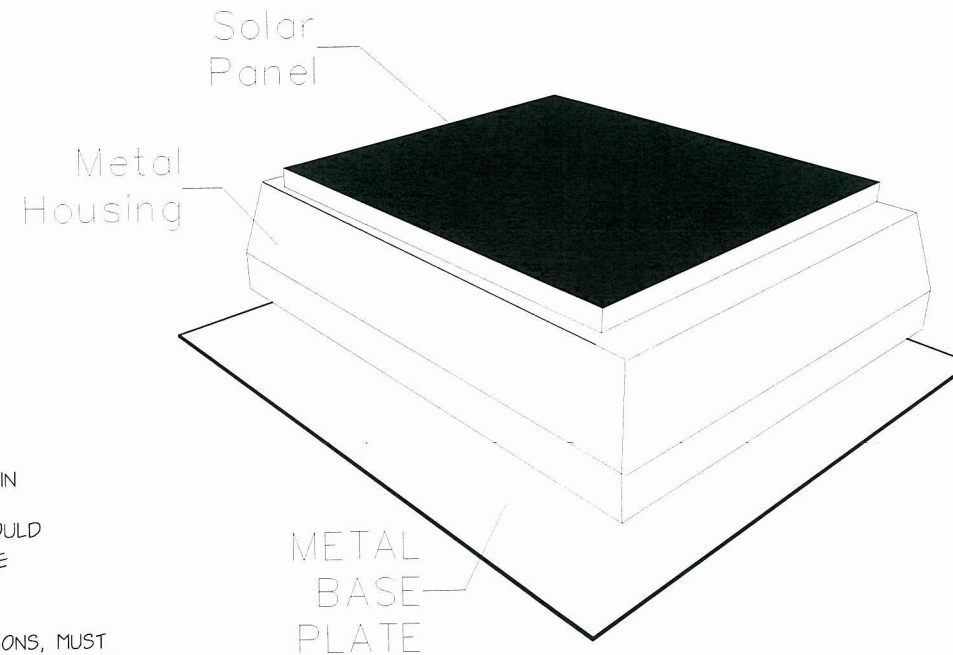


ROOF MOUNTING

for:

INTELLIBREEZE SOLAR ATTIC FAN



Notes

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE, BUILDING VOLUME AND ASCE 7 - 2010 MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES.
2. IF, IN THE CONTRACTORS OPINION, ANY WORK THAT IS INDICATED IN THE DRAWINGS, OR SPECIFIED IN SUCH A MANNER WILL MAKE IT IMPOSSIBLE TO PRODUCE A FIRST CLASS PIECE OF WORK, OR SHOULD DISCREPANCIES APPEAR IN DIMENSIONS OR DETAILS THEY SHALL BE SUBMITTED TO OWNER BEFORE PROCEEDING WITH WORK.
3. ANY CHANGE FROM THE DRAWINGS AND / OR FIELD CHANGE CONDITIONS, MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER SO THAT NECESSARY CHANGES CAN BE MADE AND INTENT OF THE DESIGN IS CARRIED OUT TO ITS FULLEST EXTENT.
4. ALL ANCHOR/CONNECTION BOLTS SHALL BE IN ACCORDANCE WITH ASTM A-325 F.
5. MINIMUM DESIGN LOADS : DEAD LOADS AND LIVE LOADS IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODES, CHAPTER 16.

ALUMINUM SPECIFICATIONS

ALL ALUMINUM STRUCTURAL SUPPORT MEMBERS FOR ROOF FAN TO BE 5052-H32 ALUMINUM

ANGLE BRACKET TO BE 1/16" MINIMUM THICKNESS
SUPPORT MEMBER TO BE 3003 -75 FLAT PLATE

ALL ALUMINUM MEMBERS TO BE FINISHED
WITH CORROSION RESISTIVE COATING

THIS SOLAR ATTIC FAN IS AN ENGINEERED COMPONENT DESIGNED TO BE INSTALLED EITHER FLAT OR ON SLOPED ROOF.

ALL FASTENERS SHALL BE CORROSION RESISTANT, GRADE 304 OR 316 STAINLESS STEEL OR ZINC OR POWDER COATED FASTENERS. UNPROTECTED STEEL FASTENERS SHALL NOT BE USED.

ANY STRUCTURE WITHIN 1500 FEET OF A SALT WATER AREA (BAY OR OCEAN), SHALL HAVE FASTENERS THAT ARE MADE OF NON-MAGNETIC STAINLESS STEEL GRADE 304 OR 316. 410 GRADE STAINLESS HAS NOT BEEN APPROVED FOR USE WITH ALUMINUM MEMBERS BY THE ALUMINUM ASSOCIATION AND SHALL OT BE USED.

THE ROOF VENT SHALL NOT BE INSTALLED DIRECTLY TO ROOFS WITH CONCRETE OR CLAY TILE ROOFS , OR ROOF SLOPES STEEPER THAN 8:12.

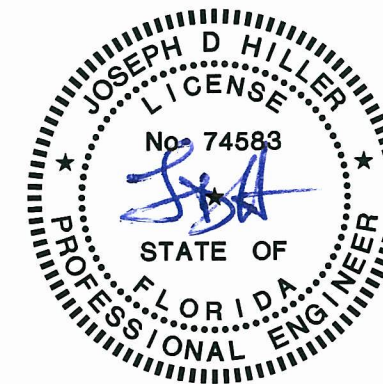
CORROSION RESISTANCE OF FAN HOUSING AND FAN BASE SHALL COMPLY WITH SECTION 1507.4.3 AND 1506.6 OF THE FLORIDA BUILDING CODE.

INSTALLER RESPONSIBILITIES

1. OWNER OR CONTRACTOR SHALL VERIFY THAT THE HOST STRUCTURE AND ALL STRUCTURAL SUPPORT MEMBERS ARE OF SUFFICIENT STRENGTH TO SUPPORT THE SOLAR ROOF FAN UNDER THE PRESCRIBED LOADING CONDITIONS AND ALL APPLICABLE CODES.

2. INSTALLER IS RESPONSIBLE FOR WATERPROOFING/ CAULKING WITH EXTERIOR GRADE SEALANT AT ALL MOUNTING HOLES AND ROOF PENETRATIONS.

3. CONTRACOR/INSTALLER SHALL USE APPROPRIATE DESIGN LOADS FOR THE SPECIFIC LOCATION.



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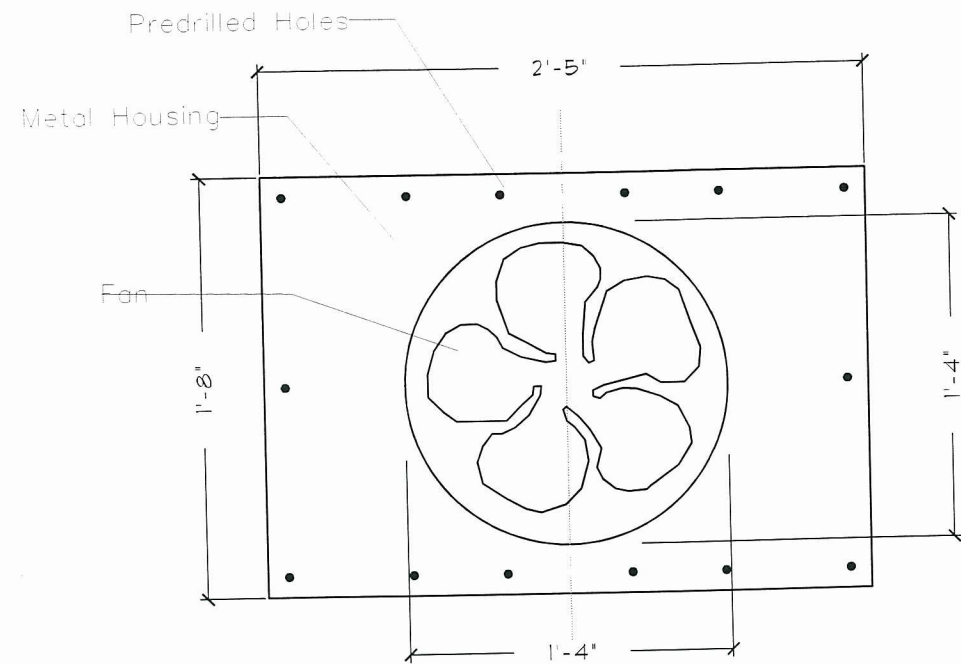
Joseph D. Hiller P.E.
 Florida P.E. License # 74583
 P.O. Box 290855
 Port Orange, FL 32129
 Phone: 386-248-1700
 Email: hillereengineering@gmail.com

**INTELLIBREEZE
SOLAR ATTIC FAN
ROOF MOUNT**

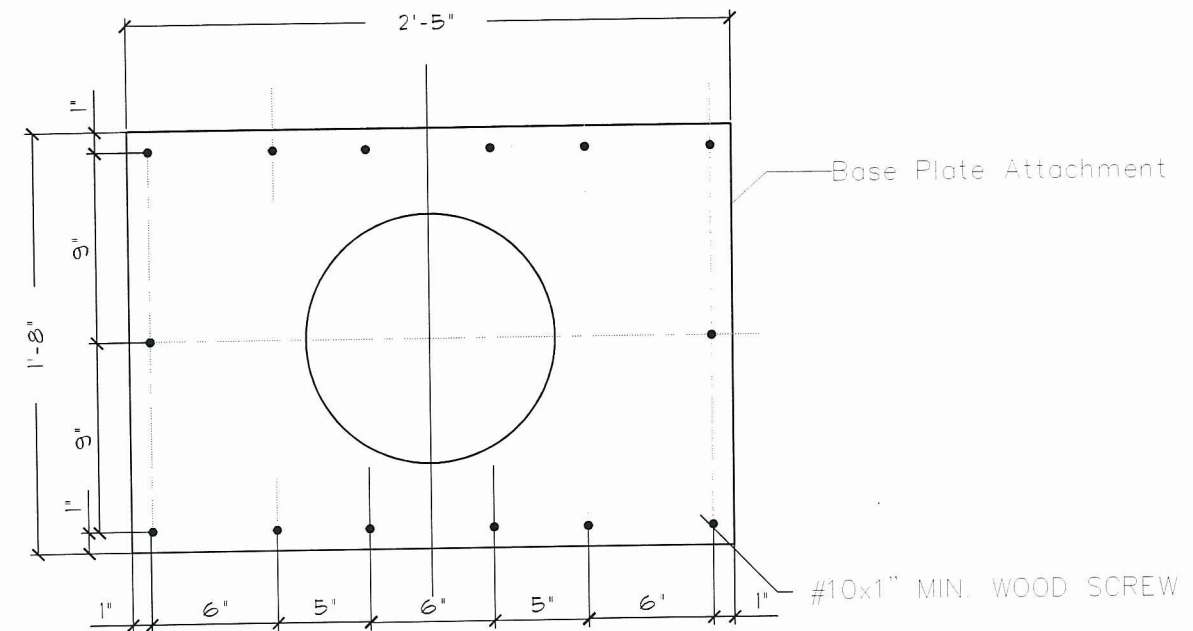
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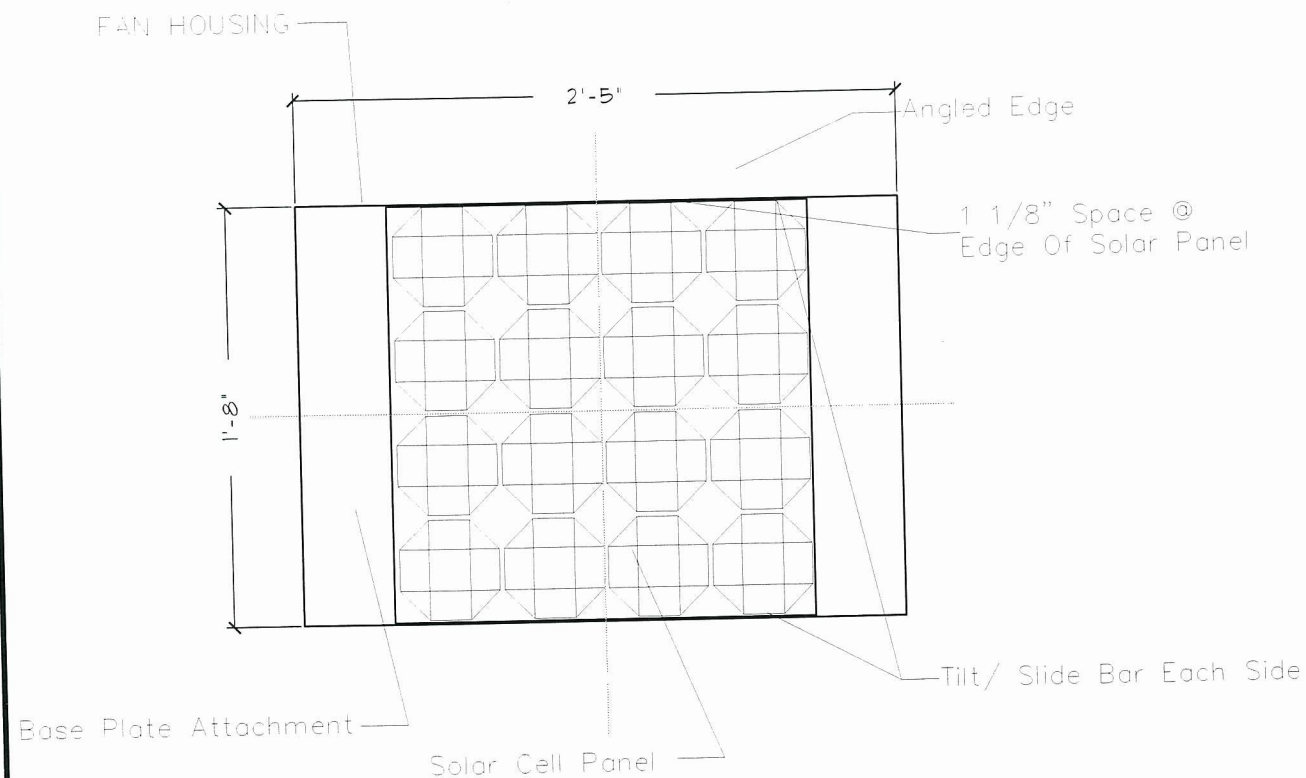
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1 of 5



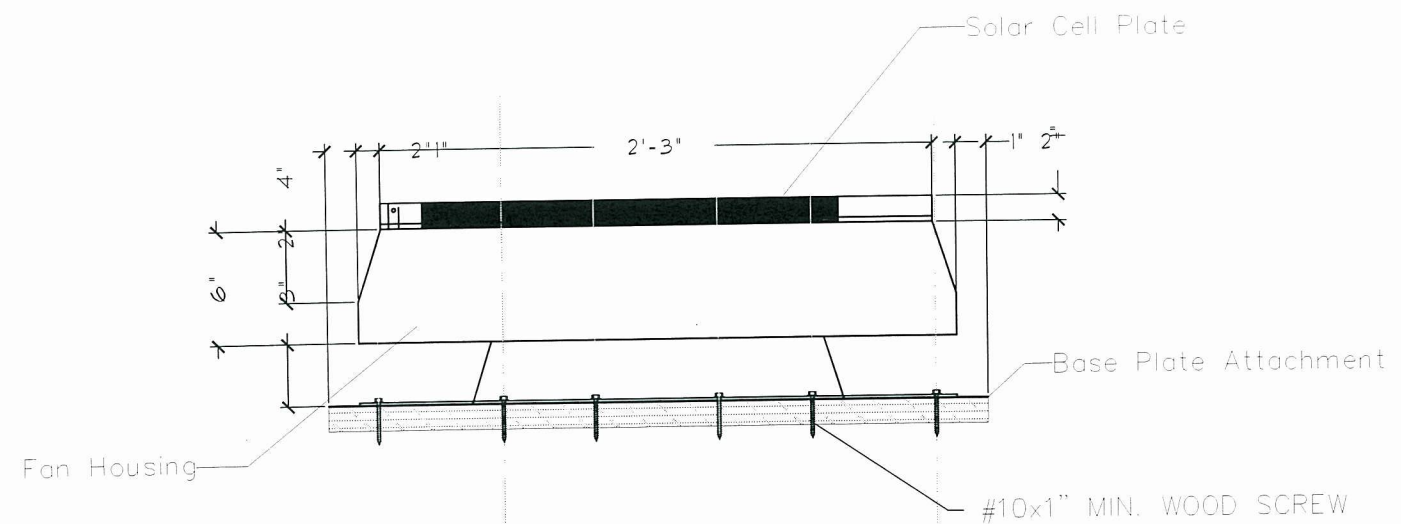
Bottom View Plan



FAN MOUNTING PLAN

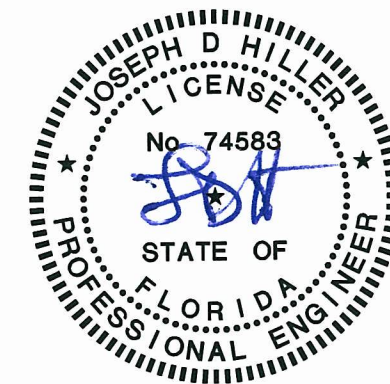


Top View Plan



Side View Plan

INTELLIBREEZE
SOLAR ATTIC FAN



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 Florida P.E. License # 74583
 P.O. Box 290855
 Port Orange, FL 32129
 Phone: 386-248-1700
 Email: hillereengineering@gmail.com

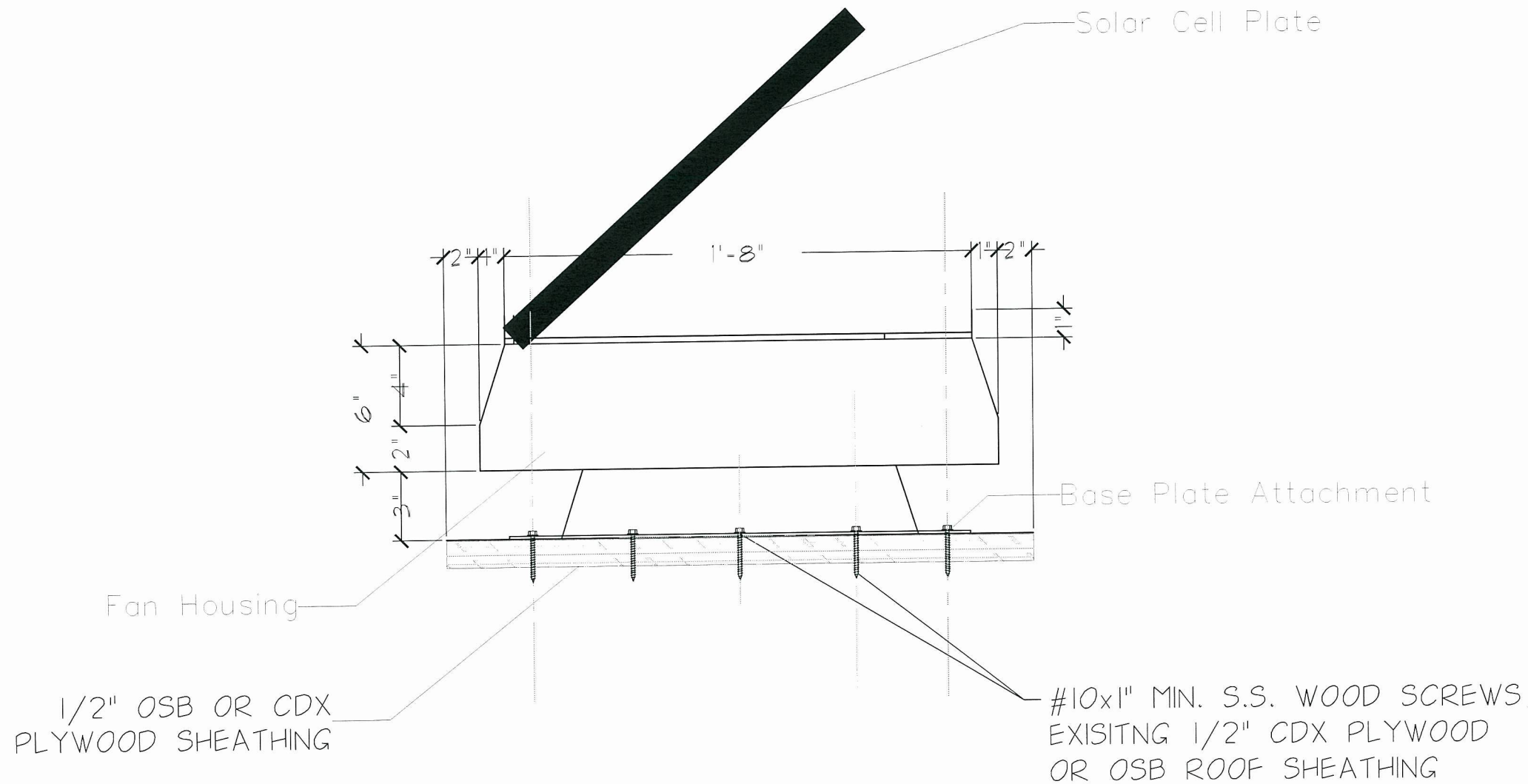
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ROOF MOUNT

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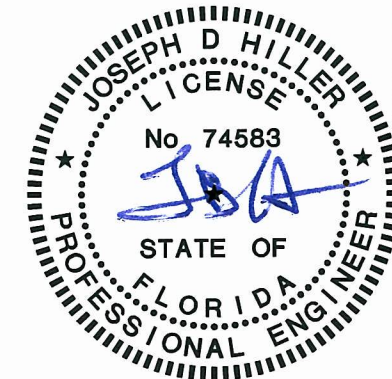
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 2 of 5

MAXIMUM WIND DESIGN PRESSURE: +/- 107 PSF



ROOF SURFACE MATERIAL MAY BE ASPHALT SHINGLES, METAL ROOFING, OR ROLLED ROOFING OVER 1/2" MIN. THICK ROOF SHEATHING. MOUNTING FOR FLAT OR LOW SLOPES ROOFS.

FLAT ROOF MOUNT



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Joseph D. Hiller P.E.
 Florida P.E. License # 74583
 P.O. Box 290855
 Port Orange, FL 32129
 Phone: 386-248-1700
 Email: hillerengineering@gmail.com

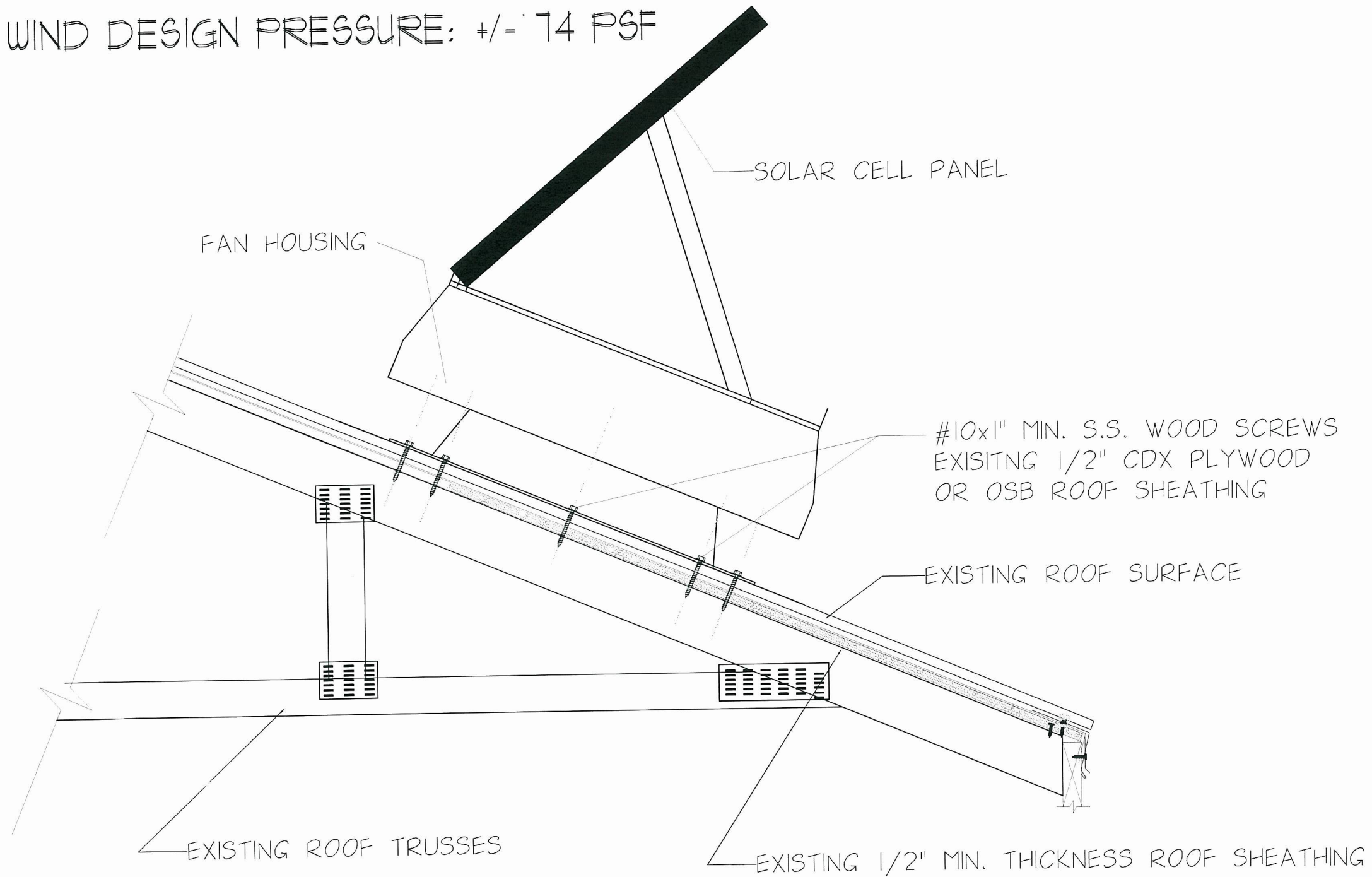
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ROOF MOUNT

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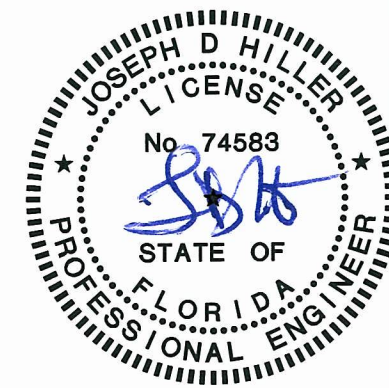
A-2
 3 of 5

MAXIMUM WIND DESIGN PRESSURE: +/- 74 PSF



ROOF SURFACE MATERIAL MAY BE ASPHALT SHINGLES, METAL ROOFING, OR ROLLED ROOFING OVER 1/2" MIN. THICK ROOF SHEATHING WITH ROOF SLOPES FROM 2/12 SLOPE TO 8/12 SLOPES.

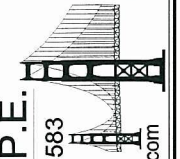
SLOPED ROOF MOUNT



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Florida P.E. License # 74583

P.O. Box 290855

Port Orange, FL 32129

Phone: 386-248-1700

Email: hillereengineering@gmail.com

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SHEET

A-3

4 OF 5

MAXIMUM ALLOWABLE SHEAR LOAD
FOR #10x1" LONG FASTENER INTO
1/2" 4 PLYWOOD ROOF SHEATHING: 93 LBS

MAXIMUM ALLOWABLE TENSILE /WITHDRAWAL
LOAD FOR #10x1" LONG FASTENER INTO
7/16" OSB OR 1/2" CDX PLYWOOD ROOF SHEATHING
54 LBS

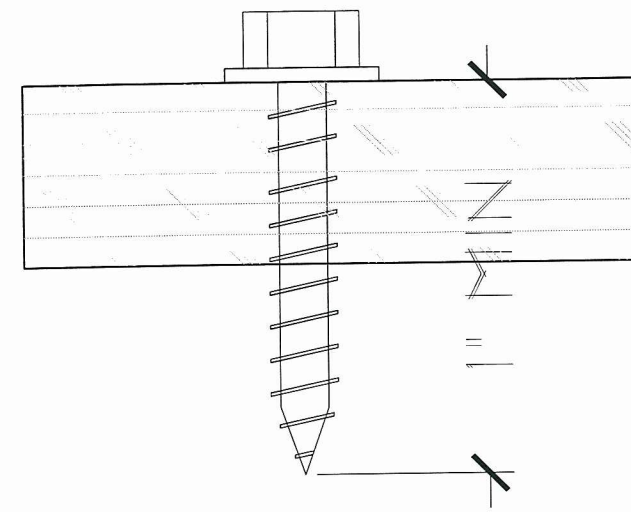
MAXIMUM UPLIFT LOAD FOR 180 MPH 3-SECOND GUST
EXPOSURE B FOR COMPONENT AND CLADDING DESIGN
WIND PRESSURE: -98 PSF, +45 PSF, FOR FLAT ROOF

MINIMUM REQUIRED ANCHORING: 10- #10-15 x1" FASTENERS

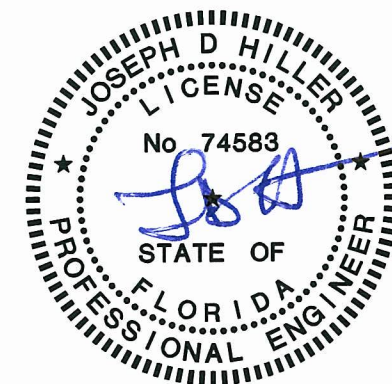
MAXIMUM UPLIFT LOAD FOR 160 MPH 3-SECOND GUST
EXPOSURE C FOR COMPONENT AND CLADDING DESIGN
WIND PRESSURE: -66 PSF, +48, FOR SLOPPED ROOFS.

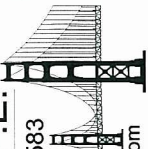
MINIMUM REQUIRED ANCHORING: 12- #10-15 x1" FASTENERS

MAXIMUM DESIGN WIND PRESSURE WITH MAXIMUM 12- #10
FASTENERS IS +/- 74 PSF.



FASTENER LOADS



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