



ABOVE SUBBOUNDING GRADE IN AN EXPOSURE D SEOR AUTHORIZES THIS SEALED STRUCTURAL INSTALLATION PLAN TO BE PLACED AS PLANS ON FILE FOR THE PULLING OF MULTIPLE PERMITS BY MULTIPLE CONTRACTORS AND/OR DIY-OWNERS. THIS SEALED PLAN IS FOR THE STRUCTURAL ATTACHMENT OF ANY AND ALL FSEC APPROVED PV MODULES. THIS PLAN SHALL ONLY BE USED FOR PV INSTALLATIONS UTILIZING UNISTRUT P1000T CRS (CORROSION RESISTANT STEEL) CHANNELS. THIS PLAN SHALL ONLY BE USED FOR MOUNTING PV MODULES IN PZ1, PARALLEL WITH AND WITHIN A COUPLE OF INCHES OF THE ROOF COVERING OF ALL TYPES AND ALL SLOPES FROM FLAT THRU 12-IN-12 AT ROOF HEIGHTS OF 60-FT OR LESS WITHIN BROWARD COUNTY FLORIDA. PZ2 AND/OR TILT-UP INSTALLATIONS REQUIRE SITE-SPECIFIC ENGINEERING. THOSE DESIRING TILT UP PLANS, OR PZ2 INSTALLATION, OR THAT SEOR PROVIDE ELECTRICAL DESIGN AS WELL, ARE REQUESTED TO CONTACT SEOR DIRECTLY SEOR CONTACT INFO-OFFICE: 813 909 1956, CELL: 813 650 7246, E-MAIL: ALLEN@GEZELMANPE.COM THE DETAILS SPECIFIED ON THIS "PAPER" PLAN ARE CONSIDERED TO BE THE MINIMUM NEEDED BY AHJ AND INSTALLERS. HYPERLINKS ARE PROVIDED HEREON TO SUPPLEMENTAL OEM, GOVERNMENTAL AND OTHER INFORMATION SOURCES IN ORDER TO PROVIDE COMPLETE, EASY INFORMATION AVAILABILITY. USERS ARE ENCOURAGED TO ACCESS AN EV (ELECTRONIC VERSION) OF THIS PLAN AT WWW.GEZELMANPE.COM/PV/. EV HYPERLINKS ARE ACTIVE AND WILL PROVIDE EASY ACCESS TO INFORMATION. EV ALSO ALLOWS VIEWER TO STUDY THE PLAN AT A MAGNIFICATION OF HIS CHOICE UP TO 6400%. IF A CONFLICT SHOULD OCCUR BETWEEN THE SPECIFICATIONS HEREON AND AN OEM DETAIL, OEM SHALL PREVAIL. STRUCTURAL: CONTRACTOR/OWNER SHALL INSTALL IN PZ1 ONLY - WHICH IS THE INTERIOR PORTION OF ROOF AT LEAST 40% OF EAVE HEIGHT OR 10% OF LEAST PLAN DIMENSION OF BUILDING-WHICHEVER IS LESS. PZ2 MAY BE USED WITH SITE SPECIFIC ENGINEERING ONLY. PZ3 MAY NOT BE USED IN THE HVHZ. THERE SHALL BE TWO UNISTRUT P1000T CORROSION RESISTANT CHANNELS EQUALLY-SPACED UNDER EVERY PV MODULE. PV MODULES MAY BE LANDSCAPE OR PORTRAIT. UNISTRUT CHANNELS SHALL RUN PERPENDICULAR TO ROOF FRAMING. UNISTRUT CHANNELS SHALL BE ATTACHED TO EVERY ROOF FRAMING MEMBER CROSSED BY A CRS 5/16" DIAMETER LAG 3" LONG THRU A 1" GALVANIZED FLOOR FLANGE FILLED WITH APPROVED POLYURETHANE ROOF SEALANT. IF GREATER ROOF CLEARANCE IS NEEDED (CONCRETE TILE FOR EXAMPLE), UTILIZE SCHEDULE 80 PVC PIPE NIPPLE OF APPRORIATE LENGTH - NGT (NOT GREATER THAN) 4". IF GREATER ROOF CLEARANCE IS NEEDED, USE GALVANIZED STEEL 1" PIPE NIPPLE, DOUBLE FLOOR FLANGES, AND TWO LAGS PER ROOF/FLOOR FLANGE ATTACHMENT SEE DETAIL DRAWING THIS SHEET. PV MODULES SHALL ATTACH TO UNISTRUT CHANNELS AT EVERY CROSSING POINT WITH A GSAS MODULE CLAMP. ADJOINING MODULES MAY SHARE ATTACHMENT CLAMPS. ATTACHMENT CLAMPS SHALL ATTACH TO UNISTRUT P1000T CHANNEL USING UNISTRUT CORROSION RESISTANT CHANNEL NUTS. ELECTRICAL: BY OTHERS THOSE DESIRING ELECTRICAL DESIGN BY SEOR ARE REQUESTED TO CONTACT SEOR DIRECTLY SEOR CONTACT INFO-OFFICE: 813 909 1956, CELL: 813 650 7246, E-MAIL: ALLEN@GEZELMANPE.COM GENERAL: • PV-MODULES PRODUCE ELECTRICITY WHEN EXPOSED TO SUNLIGHT. USE COMMON-SENSE & CAUTION. • TWISTED (WIRE NUT) CONNECTIONS ARE NOT PERMITTED FOR DC WIRING. USE OEM PLUG CONNECTOR HARNESS BETWEEN PV MODULES. MAKE SOLID MECHANICAL CONNECTIONS TO ENSURE ELECTRICAL CONDUCTIVITY BETWEEN ALL PV MODULE ENCLOSURES AND FRAMING MEMBERS WITH NO ELECTRICALLY ISOLATED COMPONENTS. USE #10 AWG BARE COPPER WITH SCREWED CONNECTIONS FOR BONDING JUMPERS AS NEEDED. OEM BONDING PLATES ARE AN ACCEPTABLE SUBSTITUTE. • DO NOT LEAVE LOOSE UNSECURED WIRES/HARNESS BETWEEN PV-MODULES, TIE TO THE MOUNTING RAILS WITH UV RESISTANT ZIP TIES OR APPROVED WIRE CLIPS IN NEAT, PROFESSIONAL MANNER. USE APPROVED MEANS AND METHODS PER 2008 NEC ADHERE TO BEST PRACTICES/MEANS & METHODS OF FBC AND NRCA ROOFING & WATERPROOFING MANUAL TO ENSURE NO ROOF LEAKS. MODULE MODULE SS. CLAMP -SS.FENDER WASHER 1-1/2" SOLAR MODULE

