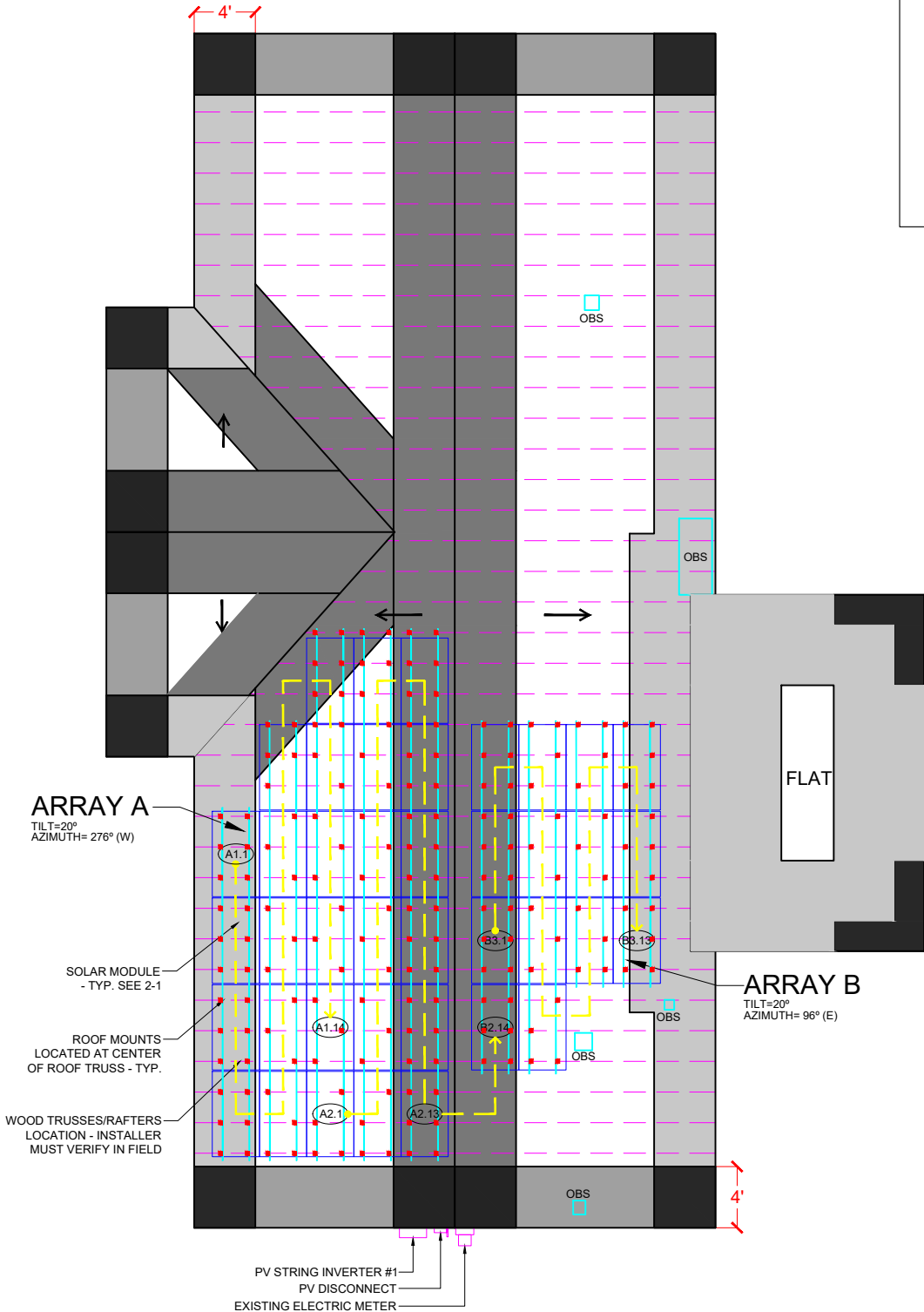


ROOF'S GENERAL NOTES:
1- CONTRACTOR/INSTALLER TO VERIFY ROOF CONDITIONS FOR PROPER INSTALLATION OF THE PV SYSTEM.
2- CONTRACTOR/INSTALLER TO NOTIFY THE OWNER IMMEDIATELY OF ANY ROOF DEFICIENCIES AND/OR REPAIR REQUIRED TO INSTALL THE PV SYSTEM.
3- EOR DOES NOT ASSUME ANY RESPONSIBILITY FOR THE INSTALLATION OF ANY PV SYSTEM ON DEFICIENT ROOFS.
4-CONTRACTOR/INSTALLER ASSUMES ALL RESPONSIBILITY TO INSTALL AS PER MANUFACTURER STANDARDS.



"PROPERTY SIDE FACING STREET"



LEGEND & SYMBOLS	
OBS	ROOF OBSTRUCTIONS
XX.X	ARRAY # MODULE # STRING #
[Box]	PV MODULES
[Dashed Line]	TRUSSES OR RAFTERS
[Red Dot]	ROOF MOUNTS & RAIL
[Arrow]	ROOF SLOPE

SOLAR MODULE

UL 1703 CERTIFIED
PORTRAIT MAX. SURFACE LOAD: 119 psf
LANDSCAPE MAX. SURFACE LOAD: 50.13 psf
APPLIED WIND LOAD : 49.07 psf

NOTES:
-INSTALL MID CLAMPS BETWEEN MODULES AND ENDS CLAMPS AT THE END OF EACH ROW OF MODULES.
-ALUMINUM RAILS SHOULD ALWAYS BE SUPPORTED BY MORE THAN ONE FOOTING ON BOTH SIDES OF THE SPLICE.

WEIGHTED AVERAGE

WORST CASE MODULE:

ZONE 1: 0%

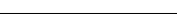
ZONE 2r: 100%

$49.07(1.0) + 33.64(0.0) = 49.07\text{psf}$

ULTIMATE WIND SPEED		175	mph
NOMINAL WIND SPEED		118	mph
RISK CATEGORY		II	
EXPOSURE CATEGORY		C	
ROOF SLOPE (°)		20	
ROOF TYPE		GABLED	
PRESSURE ZONE:		1&2	
MEAN ROOF HEIGHT:		12.93	
PERIMETER WIDTH:		4.0	
K _D		0.85	
K _{ZT}		1.0	
K _H		0.85	
VELOCITY PRESSURE (q) = 0.60*0.00256* K _H K _{ZT} K _D V ²			
VELOCITY PRESSURE (ASD)		15.43	
EXTERNAL PRESSURE COEFFICIENT Z1		0.7	-2.0
EXTERNAL PRESSURE COEFFICIENT Z2e		0.7	-2.0
EXTERNAL PRESSURE COEFFICIENT Z2n		0.7	-3.0
EXTERNAL PRESSURE COEFFICIENT Z2r		0.7	-3.0
EXTERNAL PRESSURE COEFFICIENT Z3e		0.7	-3.0
EXTERNAL PRESSURE COEFFICIENT Z3r		0.7	-3.6
INTERNAL PRESSURE COEFFICIENT		0.18	
ZONES		PRESSURES (PSF)	MAX. SPAN (FT) MAX. CANTILEVER (IN)
1		-33.64	4' 16"
2e		-33.64	2' 8"
2n		-49.07	2' 8"
2r		-49.07	2' 8"
3e		-49.07	2' 8"
3r		-58.33	2' 8"
TOTAL ROOF AREA		3136.06 sq.-ft	
TOTAL MODULES:		41	
TOTAL PHOTOVOLTAIC AREA:		750.3 sq.-ft	
WIND LOAD (PSF):		49.07	
TOTAL WIND LOAD (LBS):		-36,817.22	
TOTAL ROOF MOUNTS:		185	
TENSION FORCE PER MOUNT (LBS):		199.01	

1 STRUCTURAL ROOF PLAN & PV MODULES LAYOUT

N.T.S.

DOCUMENT CONTROL				DATE	CAD	QC	ENGINEER CONTACT INFORMATION				ENGINEERING STAMP				CONTRACTOR CONTACT INFORMATION				CONTRACTOR LOGO				CUSTOMER:				SHEET NAME:																								
ISSUED FOR PERMIT				03-18-2021	DP	JG	ENGIPARTNERS LLC C.A. 32661 255 GIRALDA AVE CORAL GABLES, FL 33134 DESIGN@ENGIPARTNERS.COM 833 - 888 - 3644								TITAN SOLAR POWER FL 12221 N US HIGHWAY 301 THONOTASASSA, FL 33592 (813) 982 -9001 #EC13008093								MOSES TOWN				STRUCTURAL PLAN																								
REV				DESCRIPTION																			DATE								CAD				QC				PROJECT ADDRESS:												
																																							205 SE JONATHAN WAY LAKE CITY FL 32025												
																																			PARCEL NUMBER:				PROJECT ID:				ENGINEER OF RECORD:				SHEET TITLE:				
																																			15-4S-17-08360-184				TSP68549				ENG. RAFAEL A. GONZALEZ SOTO, PE				S-1				
																																											DATE:				SHEETS:				
																												03-16-2021				5 OF 9																			

