

BULK TABLE:

ZONE: R-20 RESIDENTIAL DISTRICT	PERMITTED USE	LOT MIN. LOT AREA	MIN LOT WIDTH	MIN. FRONTAGE	FRONT YARD SETBACK	MIN. SIDE YARD	REAR YARD SETBACK	STRUCTURE HEIGHT (STORIES)	MAX DEVELOPMENT COVERAGE	MAX BUILDING COVERAGE	MAX F.A.R.
REQUIRED	SINGLE FAMILY RESIDENCE W/GROUND MOUNT SOLAR	20,000 SQ.FT.	100 FT.	100 FT.	35 FT.	25/50 FT.	25 FT.	28 FT.	25%	12%	0.20
PROVIDED		87,706 SQ.FT.	214 FT.	214 FT.	95.8 FT.	39/74 FT.	178 FT.	< 28 FT.	23.6%	5.8%	0.12

LOT AREA CALCS

NOTES:

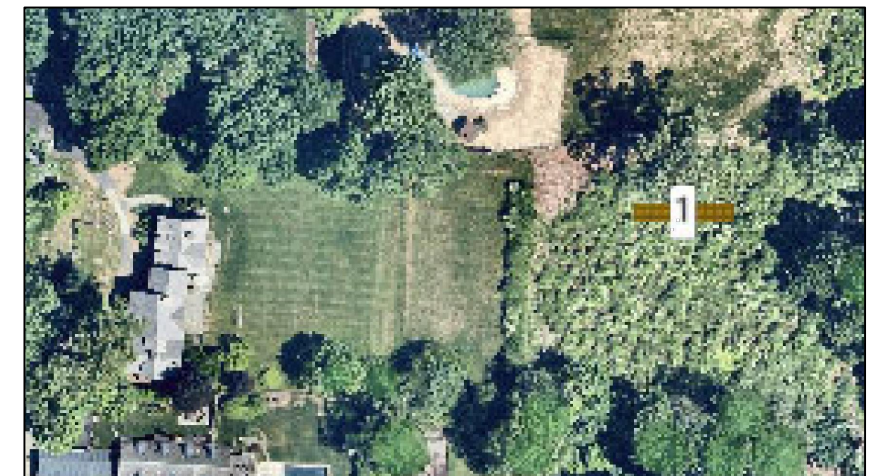
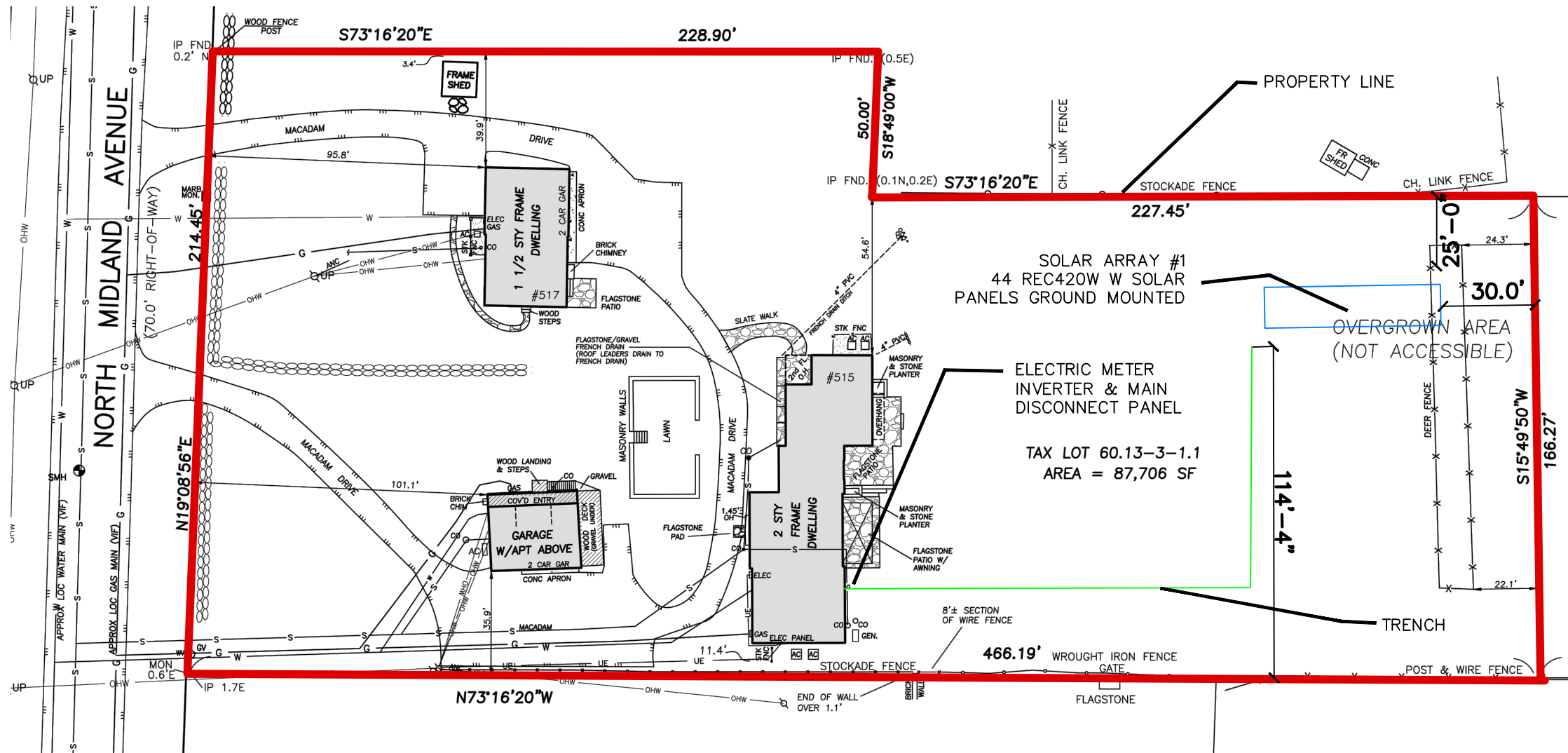
THERE ARE NO WETLANDS OR SLOPES > 26% AND THERE IS NO GRADING OR ELEVATION CHANGES PROPOSED AS PART OF THIS PROJECT

PROJECT DESIGN DATA:

WORK SHALL BE COMPLETED AS PER 2020 RESIDENTIAL CODE OF NEW YORK STATE, PUBLICATION DATE: NOVEMBER 2019, NFPA 70, 2020 NATIONAL ELECTRICAL CODE AND 2018 WOOD FRAME CONSTRUCTION MANUAL LOAD CRITERIA AS FOLLOWS
 EXPOSURE CATEGORY: "B"
 GROUND SNOW LOAD: 50 PSF
 WIND SPEED: 120 MPH, 35SPF

GENERAL NOTES:

1. ALL SOLAR MODULES TO BE REC420W AND SHALL BE INSTALLED AS PER REC INSTALLATION MANUAL.
2. ALL INVERTERS TO BE SOLAR EDGE INVERTERS ALL RACKING AS PER DETAILS FOR GROUND MOUNT INSTALLATION



ARRAY NOTES:

THERE ARE (1) GROUND MOUNT ARRAYS FOR A TOTAL OF 913.88 SQ.FT.

RESIDENTIAL SOLAR PANEL INSTALLATION

LOCATED AT - 515-517 N MIDLAND AVENUE, UPPER NYACK, NY 10960
 VILLAGE OF UPPER NYACK, ROCKLAND COUNTY, NEW YORK

GROUND MOUNT LOCATION SURVEY:

NTS

** GROUND MOUNT ARRAY SHALL BE STAKED OUT BY A LICENSED PROFESSIONAL SURVEYOR PRIOR TO INSTALLATION



SOLAR PANEL INSTALLATION
BUMGARDNER RESIDENCE
 515-517 N MIDLAND AVE
 UPPER NYACK
 NEW YORK 10960

REVISIONS NOTES

1	OCTOBER 12, 2023
DWG. BY: MEM	SCALE: AS-NOTED
CHECKED BY: MEM	PROJECT #: ES-0250-23
DATE: SEPTEMBER 8, 2023	SBL #: 60.13-3-1.1
MUNICIPALITY: VILLAGE OF UPPER NYACK	COUNTY: ROCKLAND

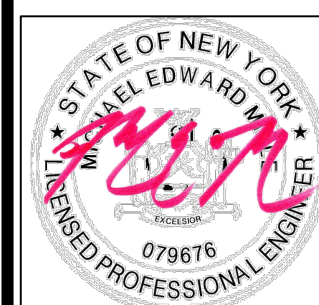
SYSTEM NOTES:

TOTAL SYSTEM SIZE: 18.48KW DC SYSTEM
 PANEL TYPE: REC 420W
 OF PANELS: 44
 INVERTER: SOLAREEDGE SE10,000H-US (2)
 # OF INVERTERS: 2
 ARRAY AZIMUTH: #1 180
 TILT: 35
 # OF PANELS 44

PROFESSIONAL NOTES:

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SEAL & SIGNATURE



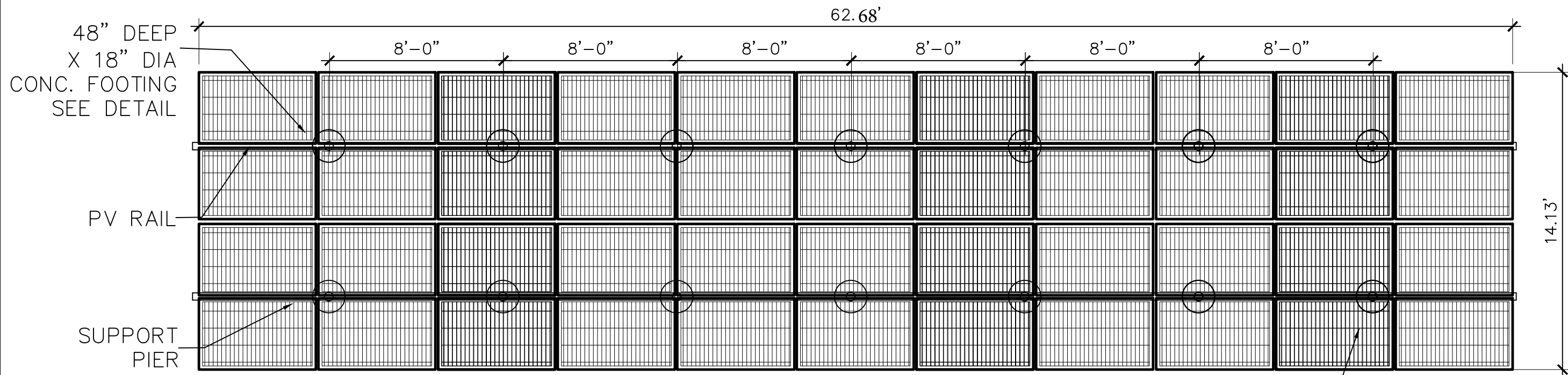
DWG#

S-1

PROJECT SITE PLAN AND NOTES

DWG.

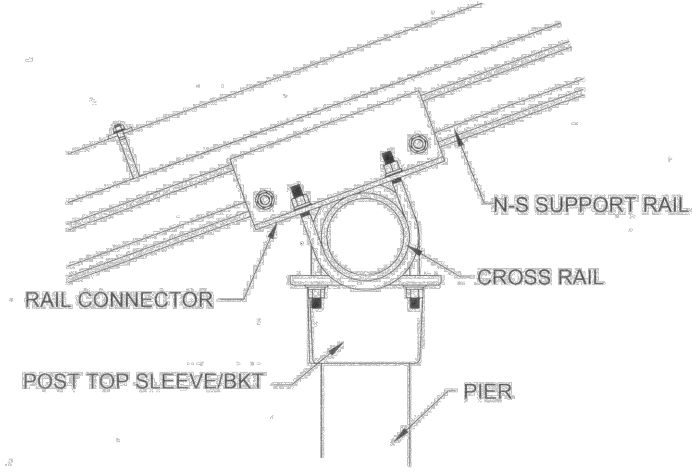
1 OF 5



PROPOSED GROUND MOUNT ARRAY #1
 (44) REC 420W SOLAR PANEL MODULES
 11 X 4 GRID
 GROUND MOUNTED PORTRAIT
 CONFIGURATION

GROUND MOUNT LAYOUT ARRAY

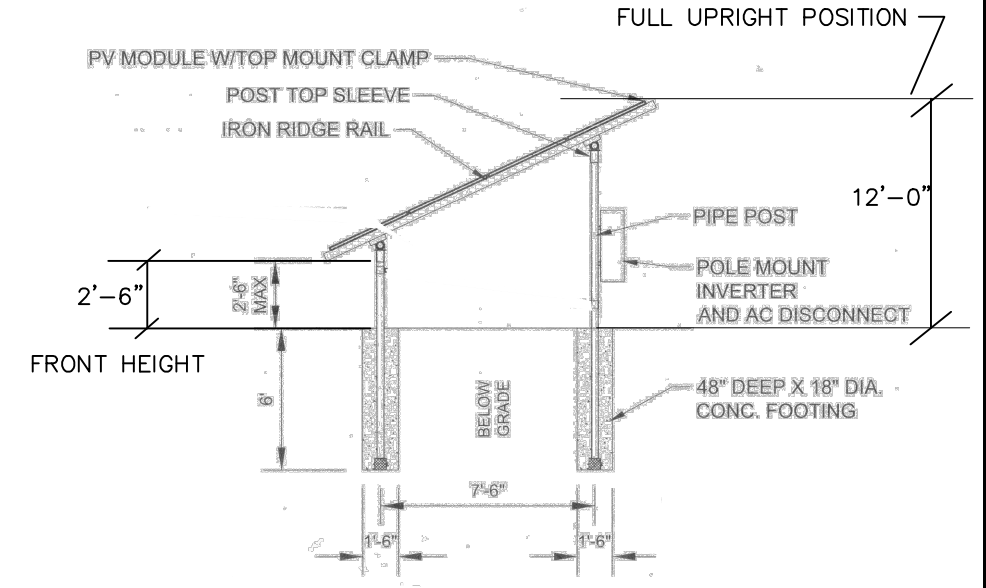
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PIER AND RAIL ASSEMBLY:

SITE VERIFICATION NOTES:

1. PRIOR TO SUBMISSION TO MUNICIPALITY OF THE PLANS, THIS CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN THE ACTUAL FIELD CONDITIONS AS THEY RELATE TO THE WORK INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO SUBMISSION OF THE PLANS. SUBMISSION OF PLANS SHALL BE EVIDENCE THAT SITE VERIFICATION HAS BEEN PERFORMED AS DESCRIBED ABOVE.
2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK. IF EXISTING CONDITIONS VARY FROM PLANS, THE CONTRACTOR SHALL STOP WORK AND NOTIFY PROJECT ENGINEER A.S.A.P. CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY THEREFROM.
3. THE OWNER/CONTRATOR SHALL OBTAIN ALL NECESSARY PERMITS, VERIFY ALL CONDITIONS, EXAMINE THE DESIGN DOCUMENTS AND BE RESPONSIBLE FOR ALL MEASUREMENTS, DIMENSIONS AND CONDITIONS.



SOLAR PANEL ASSEMBLY:



**SOLAR PANEL
 INSTALLATION
 BUMGARDNER
 RESIDENCE**
 515-517 N MIDLAND AVE
 UPPER NYACK
 NEW YORK 10960

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TILT:	35
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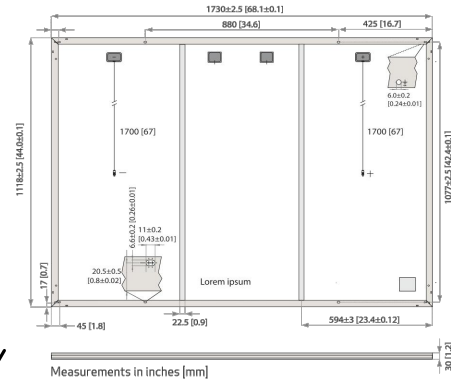
DWG#
S-2
 SOLAR
 PANEL
 LAYOUT
 PLAN
 DWG.
 2 OF 5

REC ALPHA PURE-R SERIES

PRODUCT SPECIFICATIONS



GENERAL DATA	
Cell type:	80 half-cut REC bifacial, heterojunction cells with lead-free, gapless technology
Glass:	0.13in (3.2mm) solar glass with anti-reflective surface treatment in accordance with EN12150
Backsheet:	Highly resistant polymer (black)
Frame:	Anodized aluminum (black)
Junction box:	4-part, 4 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790
Connectors:	Stäubli MC4 PV-KBT4/KST4 (4 mm ²) in accordance with IEC 62852, IP68 only when connected
Cable:	12 AWG (4 mm ²) PV wire, 67 + 67 in (1.7 + 1.7 m) in accordance with EN50618
Dimensions:	68.1 x 44.0 x 1.2 in (20.77 ft) / 1730 x 1118 x 30 mm (1.93 m ²)
Weight:	47.4 lbs (21.5 kg)
Origin:	Made in Singapore



ELECTRICAL DATA		Product Code: RECxxAA PURE-R			
Power Output - P _{MAX} (Wp)	400	410	420	430	430
Watt Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10	0/+10
Nominal Power Voltage - V _{MPP} (V)	48.8	49.4	50.0	50.5	50.5
Nominal Power Current - I _{MPP} (A)	8.20	8.30	8.40	8.52	8.52
Open Circuit Voltage - V _{OC} (V)	58.9	59.2	59.4	59.7	59.7
Short Circuit Current - I _{SC} (A)	8.73	8.81	8.89	8.97	8.97
Power Density (W/ft ²)	207	212	218	223	223
Panel Efficiency (%)	20.7	21.2	21.8	22.3	22.3

NIMOT		Product Code: RECxxAA PURE-R			
Power Output - P _{MAX} (Wp)	305	312	320	327	327
Nominal Power Voltage - V _{MPP} (V)	46.0	46.6	47.1	47.6	47.6
Nominal Power Current - I _{MPP} (A)	6.64	6.70	6.78	6.88	6.88
Open Circuit Voltage - V _{OC} (V)	55.5	55.8	56.0	56.3	56.3
Short Circuit Current - I _{SC} (A)	7.05	7.12	7.18	7.24	7.24

Values at standard test conditions (STC: air mass AM1.5, irradiance 1075 W/sq ft (1000 W/m²), temperature 77°F (25°C), based on a production spread with a tolerance of P_{MAX}, V_{OC} & I_{SC} ±3% within one watt class. Nominal module operating temperature (NIMOT: air mass AM1.5, irradiance 800 W/m², temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s). *Where xxx indicates the nominal power class (P_{MAX}) at STC above.

MAXIMUM RATINGS		WARRANTY	
Operational temperature:	-40 ... +85°C	Standard	REC ProTrust
System voltage:	1000 V	Installed by an REC Certified Solar Professional	No Yes Yes
Test load (front):	+7000 Pa (146 lbs/ft ²)	System Size	All <25 kW 25-500 kW
Test load (rear):	-4000 Pa (83.5 lbs/ft ²)	Product Warranty (yrs)	20 25 25
Series fuse rating:	25 A	Power Warranty (yrs)	25 25 25
Reverse current:	25 A	Labor Warranty (yrs)	0 25 10
*See installation manual for mounting instructions. Design load = Test load / 1.5 (safety factor)		Power in Year 1	98% 98% 98%
		Annual Degradation	0.25% 0.25% 0.25%
		Power in Year 25	92% 92% 92%

Available from:

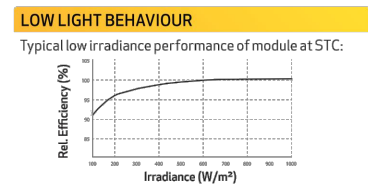
CERTIFICATIONS	
IEC 61215:2016, IEC 61730:2016, UL 61730	
IEC 62804	PID
IEC 61701	Salt Mist
IEC 62716	Ammonia Resistance
UL 61730	Fire Type Class 2
IEC 62782	Dynamic Mechanical Load
IEC 61215-2:2016	Hailstone (35mm)
IEC 62321	Lead-free acc. to RoHS EU 863/2015
ISO 14001, ISO 9001, IEC 45001, IEC 62941	



TEMPERATURE RATINGS*	
Nominal Module Operating Temperature:	44°C (+2°C)
Temperature coefficient of P _{MAX} :	-0.26 %/°C
Temperature coefficient of V _{OC} :	-0.24 %/°C
Temperature coefficient of I _{SC} :	0.04 %/°C

*The temperature coefficients stated are linear values

DELIVERY INFORMATION	
Panels per pallet:	33
Panels per 40 ft GP/high cube container:	858 (26 pallets)



Specifications subject to change without notice. Ref: PMA-DS12-06-Rev. B 08.22 www.recgroup.com

Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXXH-XXXXBXX4							
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)	-	✓	-	✓	-	-	✓	Vac
AC Frequency (Nominal)	59.3 - 60 - 60.5 ¹⁾							Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	A
Power Factor	1, Adjustable - 0.85 to 0.85							
GFDI Threshold	1							A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	-	5100	-	7750	-	-	15500	W
Transformer-less, Ungrounded	Yes							
Maximum Input Voltage	480							Vdc
Nominal DC Input Voltage	380			400				Vdc
Maximum Input Current @240V ²⁾	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V ²⁾	-	9	-	13.5	-	-	27	Adc
Max. Input Short Circuit Current	45							Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600ka Sensitivity							
Maximum Inverter Efficiency	99	99.2						%
CEC Weighted Efficiency	99					99 @ 240V 98.5 @ 208V		%
Nighttime Power Consumption	< 2.5							W

¹⁾ For other regional settings please contact SolarEdge support
²⁾ A higher current source may be used; the inverter will limit its input current to the values stated

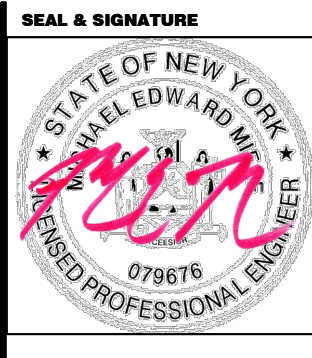


SOLAR PANEL INSTALLATION
BUMGARDNER RESIDENCE
 515-517 N MIDLAND AVE
 UPPER NYACK
 NEW YORK 10960

REVISIONS NOTES	
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DWG# **S-3**
SOLAR PANEL & INVERTER SPECIFICATIONS
 DWG. 3 OF 5

WARNING
ELECTRIC SHOCK HAZARD !
 THE DIRECT CURRENT CIRCUIT CONDUCTORS OF THIS PHOTOVOLTAIC POWER SYSTEM ARE UNGROUNDED BUT MAY BE ENERGIZED WITH RESPECT TO GROUND DUE TO LEAKAGE PATHS AND/OR GROUND FAULTS

DC WARNING LABEL

WARNING
 INVERTER OUTPUT CONNECTION
 DO NOT RELOCATE THIS OVERCURRENT DEVICE

UTILITY DISCONNECT LABEL

CAUTION
 SOLAR ELECTRIC SYSTEM CONNECTED

AC PANELS

GROUND MOUNT NOTES:

ARRAY RACK ASSEMBLY
 SOLAR GROUND MOUNT RACKING SHOWN FOR ARRANGEMENT ONLY
 RACKING MANUFACTURER TO PROVIDE SEALED SHOP DRAWINGS OF FINAL RACKING ASSEMBLY.
 INSTALL AS PER MANUFACTURER STANDARD INSTALLATION DETAILS.
 POST SUPPORTED RACKING FOUNDATION AS SHOWN
 18" Ø X 48" DEEP CONCRETE FOUNDATION WITH EMBEDDED POST.

INSTALLATION NOTES:
 BRACKET TO POST INSTALLATION HEIGHT MAY VARY WITH SITE GRADING. IT IS NOT NECESSARY FOR ALL POST TOP BRACKETS TO ALIGN AT A COMMON ELEVATION FOR EACH ROW (+/-2")
 INSTALLATION CONTRACTOR SHALL ENSURE THAT ALL GRADING AND COMPACTION OF SITE IS COMPLETED PRIOR TO INSTALLATION OF THE RACKING SYSTEM TO AVOID POTENTIAL DISTURBANCE OF FOUNDATION AND ALIGNMENT.

SEALED SHOP DRAWINGS SHALL BE PROVIDED BY RACKING MANUFACTURER PRIOR TO THE INSTALLATION OF THE PV ARRAY.

THIS DRAWING IS DIAGRAMMATIC FOR THE MODULE/RACK ARRANGEMENT. FINAL RACKING DETAILS AND ASSEMBLY MAY VARY WITH FINAL INSTALLATION.

PHOTOVOLTAIC INVERTER INPUT DC DISCONNECT

WARNING
ELECTRIC SHOCK HAZARD !

DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

INTERACTIVE SOLAR PV SYSTEM RATING

RATED DC CURRENT	AMP
RATED DC VOLTAGE	VDC
MAXIMUM SYSTEM VOLTAGE	VDC
SHORT CIRCUIT CURRENT	AMP

SYSTEM INSTALLER: _____
 FOR SERVICE CALL: _____

DC INPUT WARNING LABEL #1
 INVERTER 1

PHOTOVOLTAIC SYSTEM DISCONNECT FOR UTILITY OPERATION

WARNING
ELECTRIC SHOCK HAZARD !

DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

INTERACTIVE SOLAR PV SYSTEM RATING

RATED OPERATING CURRENT	AMP
NORMAL OPERATING VOLTAGE	240 VAC

SYSTEM INSTALLER: _____
 FOR SERVICE CALL: _____

UTILITY DISCONNECT WARNING LABEL

6"

1 1/2"

WARNING
DC SOLAR CIRCUIT

DC CIRCUIT LABEL

WARNING
 THIS METER IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM

PV CIRCUITS ONLY
 NO OTHER LOADS SHALL BE APPLIED TO THIS PANEL OTHER THAN PV COMPONENTS AS PER NEC ARTICLE 690



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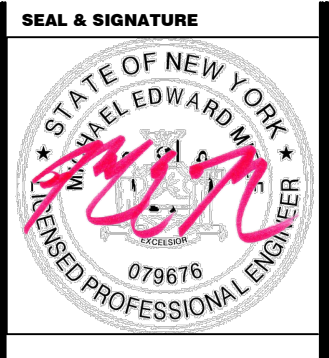
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DWG# **S-4**

SOLAR PANEL SIGNAGE

DWG. **4 OF 5**

POWER OUTPUT = PTC RATING X # OF MODULES X INV EFF'
 INVERTER#1=382.65W x 22 x 0.975 =8,207.84W
 INVERTER#2=382.65W x 22 x 0.975 =8,207.84W
 TOTAL= 16,415.68W

ALL EXTERIOR MOUNTED COMBINERS, JUNCTION BOXES, TROUGHS, DISCONNECTS, ETC. SHALL BE NEMA 3R RATED.

ALL CONDUCTORS ARE TO BE COPPER UNLESS NOTED OTHERWISE

WIRE AMPACITY
 NEC TABLE 310.15(B)(16)
 #10 THWN Cu35A RATED
 #8 THWN Cu50A RATED
 #6 THWN Cu65A RATED
 #4 THWN Cu85A RATED

(4 WIRES) #10 PV WIRE
 #8 GND

(3 WIRES) #6 THWN
 #6 GND
 1-1/4" CONDUIT

(3 WIRES) #6 THWN
 #6 GND
 1-1/4" CONDUIT

(2 WIRES) #10 PV WIRE
 #8 GND

(3 WIRES) #4 THWN
 #3 GND
 1-1/2" CONDUIT

(3 WIRES) #4 THWN
 #3 GND
 1-1/2" CONDUIT

(4 WIRES) #10 THWN-2
 #8 GND
 3/4" CONDUIT

(2 WIRES) #10 THWN-2
 #8 GND
 3/4" CONDUIT

WARNING
 ELECTRIC SHOCK HAZARD
 DO NOT TOUCH TERMINALS
 TERMINALS ON BOTH THE LINE AND
 LOAD SIDES MAY BE ENERGIZED
 IN THE OPEN POSITION

NEW 200A
 DEDICATED PV AC
 SUB PANEL
 120/240V
 4 SPACE

CONFIRM LINE SIDE VOLTAGE AT ELECTRIC UTILITY SERVICE ENTRANCE BEFORE CONNECTING INVERTER AND ENSURE PROPER OPERATIONAL RANGE REQUIRED BY SYSTEM INVERTER.

AC & DC GROUNDING CONDUCTORS PER NEC ARTICLE 690.47(c)(2) CONNECTED AS PER 250.64(c)(2)

INTERCONNECTION TO UTILITY AND SYSTEM GROUNDING PER NEC-2020 ARTICLE 690

PROVIDE SIGNAGE AS REQUIRED BY NEC-2020 ARTICLE 690.

ALL OUTDOOR EQUIPTMEN SHALL BE A MINIMUM OF NEMA-3R RATED.

WARNING
 INVERTER OUTPUT CONNECTION
 DO NOT RELOCATE THIS
 OVERCURRENT DEVICE

CONTRACTOR TO ENABLE RAPID SHUTDOWN FUNCTIONALITY ON SOLAR EDGE INVERTER PER S.E DOC.#MAN-01-00186-1.6 AS REQUIRED PER NEC 2020 ARTICLE 690.12 (1) THRU (4)

ELECTRICAL CONTRACTOR TO VERIFY INTERCONNECTION REQUIREMENTS WITH ELECTRICAL UTILITY FOR CONNECTION LOCATION AND STANDARDS

ELECTRICAL CONTRACTOR TO PROVIDE EXPANSION JOINTS AND ANCHORING OF ALL CONDUIT RUNS AS PER NEC REQUIREMENTS

PROVIDE LABEL/PLACARD AT EXISTING UTILITY CONNECTION WITH "WARNING - CUSTOMER OWNED ELECTRIC GENERATION EQUIPMENT CONNECTED" WITH APPROPRIATE HAZARD AND OUTPUT RATING OF PV SYSTEM



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SEAL & SIGNATURE



DWG#

S-5

SOLAR
 3-LINE
 DIAGRAM

DWG.

5 OF 5