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 MANUEL LOAD CRITERIA AS FOLLOWS EXPOSURE CATEGORY: "B" GROUND SNOW LOAD: 40 PSF WIND SPEED: 120 MPH, 35SPF

GENERAL NOTES:

- 1. ALL SOLAR MODULES TO BE REC460W 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 IS (1) GROUND MOUNT ARRAYS TOTALING = 634.66 SQ.FT.

SETBACK NOTES:

AS PER TOWN OF NEWBURGH ZONING CODE, LATTINTOWN ROAD SHALL NOT BE CONSIDERED A FRONT YARD. FRONT YARD: AN UNOCCUPIED GROUND AREA FULLY OPEN TO THE SKY BETWEEN THE STREET LINE AND A LINE DRAWN PARALLEL THERETO AT THE DISTANCE SPECIFIED IN ARTICLE IV, SCHEDULES OF DISTRICT REGULATIONS, OF THIS CHAPTER.

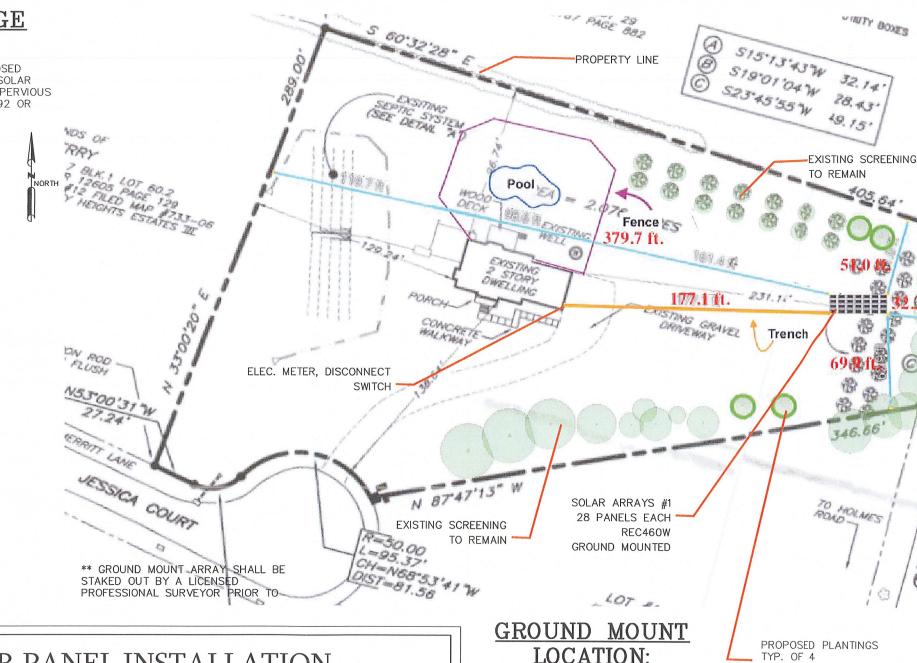
THE DIVIDING LINE BETWEEN A LOT AND A STREET.

A PUBLIC OR PRIVATE WAY WHICH AFFORDS PRINCIPAL MEANS OF ACCESS TO ABUTTING PROPERTIES.

THIS ROAD DOES NOT PROVIDE PRINCIPAL MEANS OF ACCESS FOR THIS PARCEL OF ITS ABUTTING PROPERTIES, THEY ARE ALL ACCESSED FROM JESSICA COURT

COVERAGE NOTES:

INCLUDING PROPOSED GROUND MOUNT SOLAR ARRAY, TOTAL IMPERVIOUS COVERAGE = 0.192 OR



RESIDENTIAL SOLAR PANEL INSTALLATION

LOCATED AT - 5 JESSICA CT. NEWBURGH, NY 12550 TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK

REVISIONS NOTES



SOLAR PANEL INSTALLATION **DABROSKI** RESIDENCE

5 JESSICA CT. **NEWBURGH NEW YORK 12550**

DWG. BY: MEM	SCALE:	AS-NOTED
снескед ву: МЕМ	PROJECT #:	ES-1150-24
DATE: OCTOBER 24, 2024	SBL #: 7-1-60.3	
MUNICIPALITY: TOWN OF NEWBURGH		PUNTY:

SYSTEM NOTES:

OTAL SYSTEM SIZE: 12.88KW DC SYSTE

REC 460W

OF PANELS: 28

PANEL TYPE:

INVERTER: SOLAREDGE SE11,400H-US

OF INVERTERS:

ARRAY 180 AZIMUTH: TILT: 35 #OF PANELS 28

PROFESSIONAL NOTES:

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SEAL & SIGNATURE LE OF NEW LOOP

EVERGREENS (GREEN GIANTS) -6 FT @ PLANTING

-6 FT ON CENTER

S-1

-ANNUAL 3-5 FT GROWTH PER YEAR

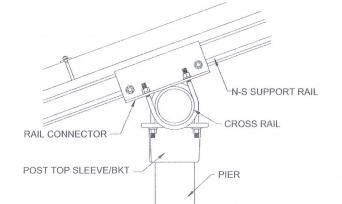
PROJECT SITE PLAN AND NOTES

1 OF 5

ALINOWN

(28) REC460W SOLAR PANEL MODULES 7 X 4 GRID GROUND MOUNTED PORTRAIT CONFIGURATION 48" DEEP X 18" DIA CONC. FOOTING SEE DETAIL (\bigcirc) PV RAIL-SUPPORT PIER 8'-0" 8'-0" 8'-0" 8'-0" 39'-8"



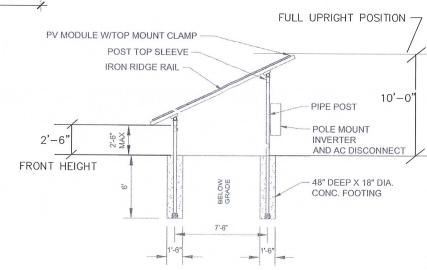


PIER AND RAIL ASSEMBLY:

SITE VERIFICATION NOTES:

REVISIONS 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.
- 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 DABROSKI RESIDENCE

5 JESSICA CT. NEWBURGH NEW YORK 12550

DWG. BY: MEM	SCALE:	AS-NOTED
снескед ву:	PROJECT #	ES-1150-24
DATE: OCTOBER 24, 2024	SBL #: 7-1-60.3	
MUNICIPALITY:		COUNTY:
TOWN OF NEWBURGH		ORANGE

TOTAL SYSTEM SIZE: 12.88KW DC SYSTEM PANEL TYPE: REC 460W OF PANELS: 28 INVERTER: SOLAREDGE SE11,400H-US OF INVERTERS: 1 ARRAY #1 AZIMUTH: 180 TILT: 35 # OF PANELS 28

SYSTEM NOTES:

PROPOSED GROUND MOUNT ARRAY #1

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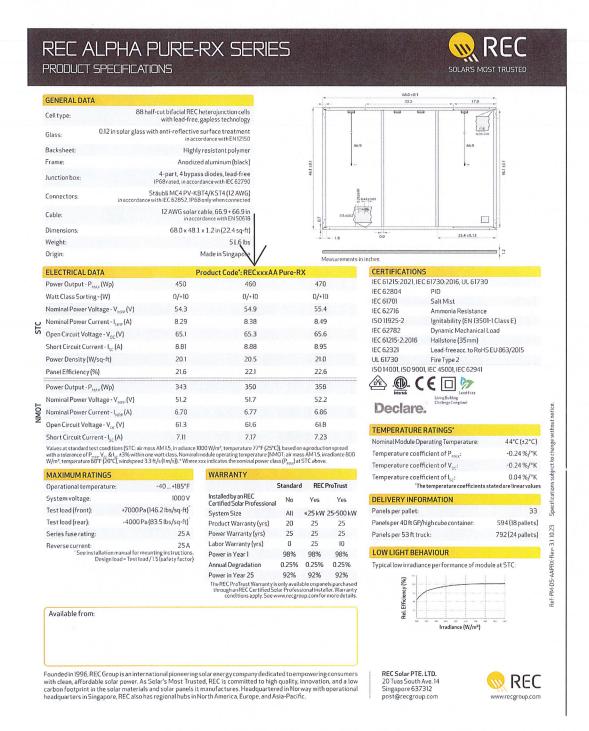
PROFESSIONAL NOTES:

7209(2) OF THE NEW YOR STATE EDUCATION LAW. COPIES OF THIS MAP NOT HAVING THE SEAL OF THE ENGINEER SHALL NOT BE VALID



S-2
SOLAR
PANEL
LAYOUT
PLAN
DWG.

2 OF 5



/ 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	SE3000H-US SE3800H-US SE5000H-US SE6000H-US SE7600H-US SE10000H-US SE11400H-US							
ОИТРИТ								
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 MinNomMax. (211 - 240 - 264)	/	✓	1	-	*	√	/	Vac
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	~	-	*	*	^	v	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	А
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	А
Power Factor		1, Adjustable - 0.85 to 0.85					1	
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	Add
Maximum Input Current @208V [□]	-	9	-	13.5		-	27	Add
Max. Input Short Circuit Current		45					Add	
Reverse-Polarity Protection		Yes			***************************************			
Ground-Fault Isolation Detection		600kΩ Sensitivity						
Maximum Inverter Efficiency	99 99.2				%			
CEC Weighted Efficiency	99 99 @ 240V 98.5 @ 208V				%			
Nighttime Power Consumption	< 2.5 ↑ John C Lot.				W			

For other regional settings please contact SolarEdge support
 A higher current rough may be used, the investor will limit its input of

EMPIRESOLAR

SOLAR PANEL INSTALLATION DABROSKI RESIDENCE

5 JESSICA CT. NEWBURGH NEW YORK 12550

DWG. BY: MEM	SCALE: AS-NOTED	
снескед ву: МЕМ	PROJECT #: ES-1150-24	
DATE: OCTOBER 24, 2024	SBL#: 7-1-60.3	
MUNICIPALITY:	COUNTY:	

ORANGE

REVISIONS NOTES

TOWN OF NEWBURGH

PANEL TYPE: REC 460W

OF PANELS: 28

INVERTER: SOLAREDGE SE11,400H-US

OF INVERTERS: 1

ARRAY #1

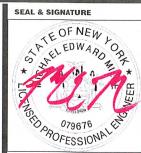
AZIMUTH: 180
TILT: 35
OF PANELS 28

OTAL SYSTEM SIZE: 12.88KW DC SYSTEM

SYSTEM NOTES:

PROFESSIONAL NOTES:

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S-3
SOLAR
PANEL &
INVERTER
SPECIFICATIONS

3A OF 5

Rigid Nonmetallic Conduit - Schedule 40

Carlon® Rigid Nonmetallic Conduit (RNC), Fittings & Accessories

Carlon® manufactures the most complete line of nonmetallic conduits and fittings in the electrical industry. Carlon Schedule 40 and Schedule 80 conduits are designed for use aboveground and underground as described in the National Electrical Code. Specify only Carlon conduits and fittings to insure raceway system integrity.

Features

Ease of Installation Nonmetallic conduits are 1/4 to 1/5 the weight of metallic systems, can be installed in less than half the time, and are easily fabricated on the job.

Safety Nonmetallic conduits are nonconductive, assuring a

Impact Resistant Carlon Schedule 40 and Schedule 80 nonmetallic conduits are resistant to sunlight and are listed for exposed or outdoor usage. The use of expansion fittings allows the system to expand and contract with temperature

Corrosion Resistant Carlon conduits and fittings are nonmetallic and will not rust or corrode.

Carlon nonmetallic Schedule 40 and Schedule 80 conduits and elbows are manufactured to NEMA TC-2, Federal specification WC1094A and UL 651 specifications. Fittings are manufactured to NEMA TC-3, Federal specification WC1094A and UL514B. Both conduit and fittings carry respective UL or ETL Listings and UL or ETL labels.

Schedule 40 PVC Rigid Nonmetallic Conduit (RNC).

Listed for underground applications encased in concrete or direct burial. Also for use in exposed or concealed applications aboveground.

• Sunlight resistant • Rated for use with 90°C conductors • Superior weathering characteristics



RUS Listed

Schedule 40 Heavy Wall



Part No. Std. Crate Qty. | Wt. Per | Dimensions om. Size 10' 20' 100' 49005-010 1/2" .840 .622 6000' 17 49007-010 49007-020 3/4" 4400' 8800' 23 1.050 .824 49008-010 49008-020 3600' 7200' 1.315 1.049 49009-010 49009-020 3300, 6600' 1.660 1.380 49010-010 49010-020 11/2" 2250' 4500' 49011-010 2" 2800' 930' 1860' 49012-010 49012-020 21/2" 124 2.875 2.469 49013-010 49013-020 880' 1760' 163 3.500 3.068 49014-020 630' 1260' 196 4.000 3.548 49014-010 570' 232 4.500 4.026 49015-010 49015-020 1140' 49016-010 49016-020 5" 380' 760' 315 5.563 5.047 .258 49017-010 49017-020 6" 260' 520' 409 6.625 6.065 .280 Rigid nonmetallic conduit is normally supplied in standard 10' lengths, with one belled end per length. For specific requirements, it may be produced in lengths shorter or longer than 10', with or without belled ends.

Use RNC Fittings with Schedule 40 and Schedule 80 Conduit.

Notes: 1. Special fittings and conduit sizes will be quoted on request.
2. DON'T FORGET TO ORDER CEMENT.

3. Carlon reserves the right to ship to the nearest unitized quantity

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www.carlon.com



TRENCH NOTES:

- 1. THE WARNING LABEL FOR THE TRENCH PIPING, SHALL BE INSTALLED EVERY 10'
- 2. TRENCH BACK FILL BACKFILL SHALL BE (CLEAN SOIL - THE SOIL REMOVED DURING TRENCH EXCAVATION TRENCH WITH THE ROCKS REMOVED)
- TRENCH LENGTH = 177.1', MIN TRENCH WIDTH 24", MIN TRENCH DEPTH = 24"
- CONDUIT SHALL BE SCHEDULE 40, (1") SEE SPEC SHEET ON SAME PAGE



SOLAR PANEL INSTALLATION **DABROSKI** RESIDENCE

5 JESSICA CT. NEWBURGH NEW YORK 12550

DWG. BY: MEM	SCALE:	AS-NOTED
снескед ву:	PROJECT #:	ES-1150-24
DATE: OCTOBER 24, 202	4 SBL #: 7-1	-60,3
MUNICIPALITY:		OUNTY:
TOWN OF NEWBURGH	l c	RANGE

REVISIONS NOTES

SYSTEM NOTES:

TOTAL SYSTEM SIZE: 12.88KW DC SYSTEM

PANEL TYPE:

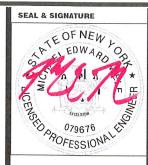
OF PANELS: 28

INVERTER: SOLAREDGE SE11,400H-US

OF INVERTERS:

ARRAY #1 180 AZIMUTH: TILT: 35 #OF PANELS 28 **PROFESSIONAL NOTES:**

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TRENCH DETAILS AND

NOTES

3B 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

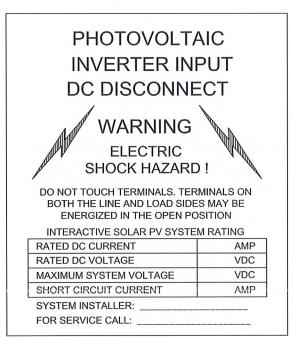
DC WARNING LABEL

WARNING **INVERTER OUTPUT** CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE

UTILITY DISCONNECT LABEL

CAUTION SOLAR ELECTRIC SYSTEM CONNECTED

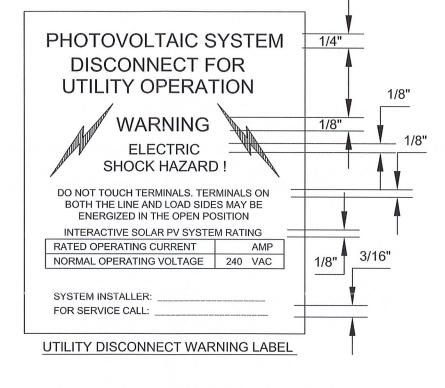
AC PANELS



DC INPUT WARNING LABEL #1 **INVERTER 1**

6" WARNING DC SOLAR CIRCUIT

DC CIRCUIT LABEL



WARNING THIS METER IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM

REVISIONS NOTES

TOWN OF NEWBURGH

NO OTHER LOADS AS PER

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" ØX 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

PV CIRCUITS ONLY

ORANGE

SHALL BE APPLIED TO THIS PANEL OTHER THAN PV COMPONENTS **NEC ARTICLE 690**



SOLAR PANEL INSTALLATION **DABROSKI** RESIDENCE

5 JESSICA CT. **NEWBURGH** NEW YORK 12550

owg. BY: MEM	SCALE: AS-NOTED	
нескед ву:	PROJECT #: ES-1150-24	
ATE: OCTOBER 24, 2024	SBL #: 7-1-60.3	
IUNICIPALITY:	COUNTY:	

SYSTEM NOTES: OTAL SYSTEM SIZE: 12.88KW DC SYSTE PANEL TYPE: RFC 460W OF PANELS: 28 INVERTER: SOLAREDGE SE11,400H-US OF INVERTERS: ARRAY AZIMUTH: 180 #OF PANELS 28

PROFESSIONAL NOTES:

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S-4 SOLAR **PANEL SIGNAGE**

OF 5

