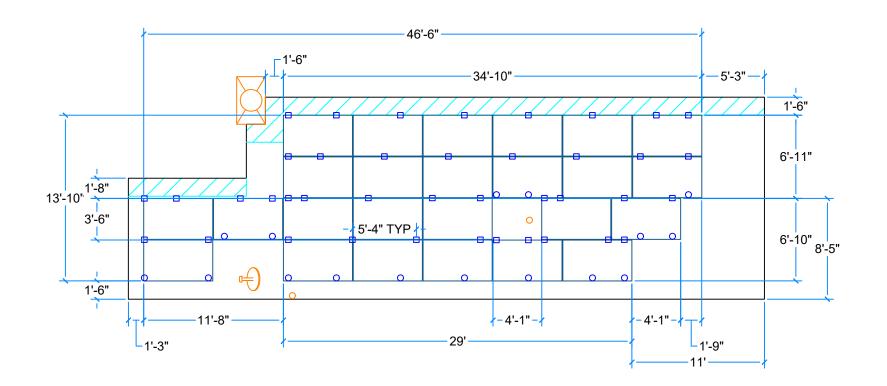
SHEET INDEX LEGEND SCOPE OF WORK GENERAL NOTES • SYSTEM SIZE: 9125W DC, 7600W AC • ALL WORK SHALL COMPLY WITH 2020 NEW YORK STATE RESIDENTIAL CODE SHEET INDEX SERVICE ENTRANCE SE • MODULES: (25) LONGI GREEN ENERGY TECHNOLOGY CO WITH 2018 IRC/IBC/IEBC. MUNICIPAL CODE. AND ALL MANUFACTURERS' LISTINGS LTD: LR4-60HPH-365M AND INSTALLATION INSTRUCTIONS. PAGE# **DESCRIPTION** • INVERTERS: (1) SOLAREDGE TECHNOLOGIES: • PHOTOVOLTAIC SYSTEM WILL COMPLY WITH NEC 2017. (MP) MAIN PANEL PV-1.0 **COVER SHEET** SE7600H-USSN • RACKING: RL UNIVERSAL, SPEEDSEAL TRACK ON COMP. • ELECTRICAL SYSTEM GROUNDING WILL COMPLY WITH NEC 2017. PV-2.0 SITE PLAN SEE DETAIL SNR-DC-00436 (SP) SUB-PANEL PV-3.0 LAYOUT PHOTOVOLTAIC SYSTEM IS UNGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER. SYSTEM COMPLIES WITH 690.35. PV-3.1 MOUNTING DETAIL (LC) PV LOAD CENTER MODULES CONFORM TO AND ARE LISTED UNDER UL 1703. **ELECTRICAL** PV-4.0 PV-5.0 **SIGNAGE** • INVERTER CONFORMS TO AND IS LISTED UNDER UL 1741. SM SUNRUN METER • RACKING CONFORMS TO AND IS LISTED UNDER UL 2703 DEDICATED PV METER Digitally signed (PM) SNAPNRACK RACKING SYSTEMS, IN COMBINATION WITH TYPE I, OR TYPE II MODULES, ARE CLASS A FIRE RATED. INVERTER(S) INV RAPID SHUTDOWN REQUIREMENTS MET WHEN INVERTERS AND ALL CONDUCTORS ARE WITHIN ARRAY BOUNDARIES PER NEC 690,12(1). MANOUCHEHR AC DISCONNECT(S) CONSTRUCTION FOREMAN TO PLACE CONDUIT RUN PER 690.31(G). HAKHAMANESHI ARRAY DC CONDUCTORS ARE SIZED FOR DERATED CURRENT. Date: 2022.11.20 DC DISCONNECT(S) • 11.43 AMPS MODULE SHORT CIRCUIT CURRENT. 08:56:07 -05'00' IQ COMBINER BOX • 17.85 AMPS DERATED SHORT CIRCUIT CURRENT [690.8 (A) & 690.8 (B)]. **ABBREVIATIONS** INTERIOR EQUIPMENT | SHOWN AS DASHED AMPERE SUNTUN ALTERNATING CURRENT AFC ARC FAULT CIRCUIT INTERUPTER MCHIMNEY AZIM AZIMUTH COMP COMPOSITION ATTIC VENT DIRECT CURRENT **VICINITY MAP** (E) **EXISTING** FLUSH ATTIC VENT 227 ROUTE 303, SUITE 101, CONGERS, NY 10920 PHONE 805.540.5487 FAX 845.268.2022 West St **PVC PIPE VENT** 0 ESS **ENERGY STORAGE SYSTEM** FXT **EXTERIOR** METAL PIPE VENT **CUSTOMER RESIDENCE:** INTERIOR ETHER ROBERTSON \boxtimes T-VENT State Of The Art 741 MEADOW ST, MAIN SERVICE PANEL 95 MAMARONECK, NY, 10543 NFW SATELLITE DISH England Thruway TEL. (914) 260-8025 NOT TO SCALE APN: OC ON CENTER 4803-154-000-00026-001-0040-000000 FIRE SETBACKS PRE-FABRICATED PROJECT NUMBER: 212R-741ROBE POUNDS PER SQUARE FOOT 741 Meadow St HARDSCAPE PHOTOVOLTAIC Mamaroneck, NY. (415) 580-6920 ex3 DESIGNER: 0 RAPID SHUTDOWN DEVICE PROPERTY LINE DAVID CLARK **SOLAR MODULES** TRANSFORMERLESS SCALE: NTS SHEET TYPICAL REV **COVER SHEET** NAME DATE **COMMENTS** VOLTS Anthony's Delicatessen WATTS REV: A2 11/18/2022 LANDSCAPE PAGE **SNR MOUNT PV-1.0** PORTRAIT **SNR MOUNT & SKIRT** Diamond Car



ROOF INFO		FRAMING INFO			ATTACHMENT INFORMATION							
Name	Туре	Height	Туре	Max Span	OC Spacing	Detail	Max Landscape OC Spacing	Max Landscape Overhang	Max Portrait OC Spacing	Max Portrait Overhang	Configuration	<u>!</u>
AR-01	COMP SHINGLE - RLU	2-Story	2X8 RAFTERS	11' - 0"	16"	RL UNIVERSAL, SPEEDSEAL TRACK ON COMP, SEE DETAIL SNR-DC-00436	5' - 4"	2' - 1"	4' - 0"	2' - 0"	STAGGERED	1 1

D1 - AR-01 - SCALE: 1/8" = 1'-0"

AZIM:125° PITCH: 38°



DESIGN CRITERIA

MAX DISTRIBUTED LOAD: 3 PSF SNOW LOAD: 30 PSF WIND SPEED: 116 MPH 3-SEC GUST. S.S. LAG SCREW

5/16"x1/4" MIN. EMBEDMENT



SUNTUN

227 ROUTE 303, SUITE 101, CONGERS, NY 10920 PHONE 805.540.5487 FAX 845.268.2022

CUSTOMER RESIDENCE: ETHER ROBERTSON 741 MEADOW ST, MAMARONECK, NY, 10543

TEL. (914) 260-8025 APN:

4803-154-000-00026-001-0040-0000000

PROJECT NUMBER: 212R-741ROBE

DESIGNER: DAVID CLARK

(415) 580-6920 ex3

SHEET

LAYOUT

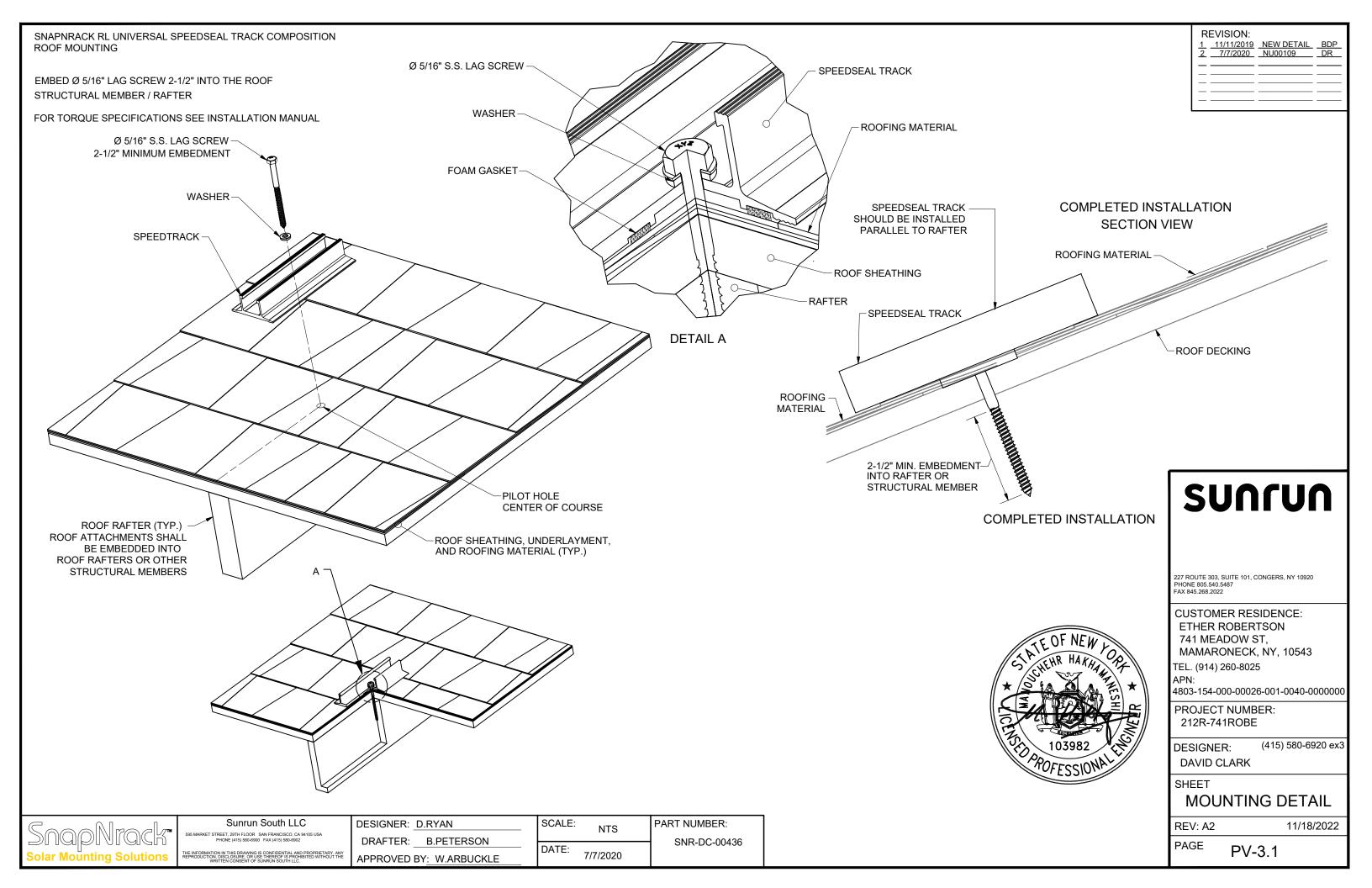
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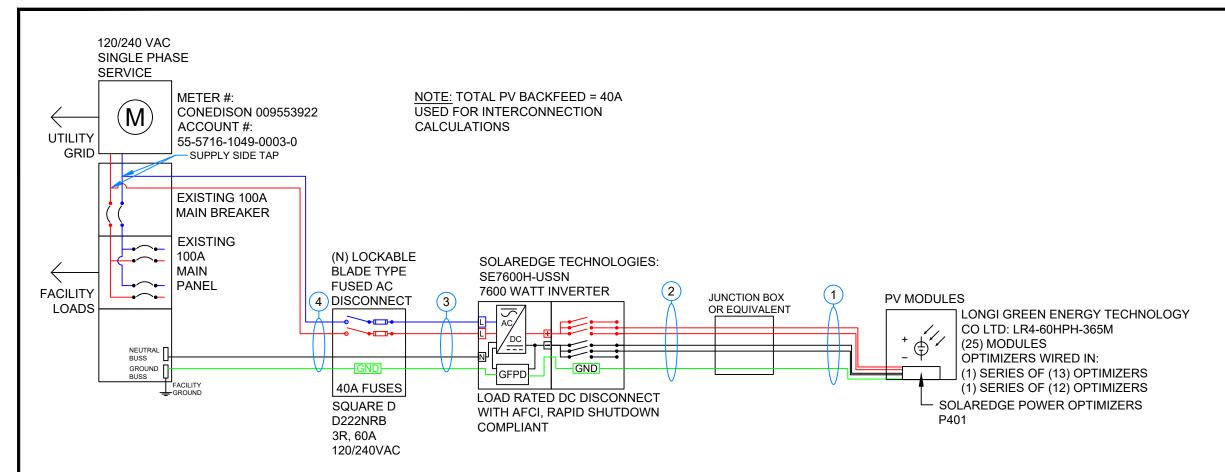
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PV-3.0

SEE SITE PLAN FOR NORTH ARROW







CONDUIT SCHEDULE											
#	CONDUIT	CONDUCTOR	NEUTRAL	GROUND							
1	NONE	(4) 10 AWG PV WIRE	NONE	(1) 6 AWG BARE COPPER							
2	3/4" EMT OR EQUIV.	(4) 10 AWG THHN/THWN-2	NONE	(1) 10 AWG THHN/THWN-2							
3	3/4" EMT OR EQUIV.	(2) 8 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2							
4	3/4" EMT OR EQUIV.	(2) 6 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2							

MODULE CHARACTERISTICS

LONGI GREEN ENERGY 8 VDC MIN INPUT VOLTAGE: TECHNOLOGY CO LTD: MAX INPUT VOLTAGE: 60 VDC LR4-60HPH-365M: 365 W MAX INPUT ISC: **OPEN CIRCUIT VOLTAGE:** 40.7 V MAX OUTPUT CURRENT: 15 ADC MAX POWER VOLTAGE: 34.2 V

SHORT CIRCUIT CURRENT: 11.43 A **SYSTEM CHARACTERISTICS - INVERTER 1**

SYSTEM SIZE: 9125 W SYSTEM OPEN CIRCUIT VOLTAGE: 13 V SYSTEM OPERATING VOLTAGE: 400 V MAX ALLOWABLE DC VOLTAGE: 480 V SYSTEM OPERATING CURRENT: 22.81 A SYSTEM SHORT CIRCUIT CURRENT: 30 A

P401 OPTIMIZER CHARACTERISTICS: 11.75 ADC

NOTE:

5/16-18 STAINLESS BOLT

(TORQUE TO 16 FT-LBS)

SNAPNRACK

GROUND LUG

BONDING PIN

BONDING PIN

SNAPNRACK BONDING

- ALL HARDWARE IS INCLUDED FROM MANUFACTURER
 A MINIMUM OF ONE GROUND LUG IS TO BE INSTALLED ON EVERY CONTINUOUS MODULE ARRAY
- GROUND LUG MAY BE INSTALLED SO GROUNDING CONDUCTOR IS PARALLEL OR PERPENDICULAR TO THE FLASHTRACK OR SPEEDTRACK
- ENSURE SPLIT LOCK WASHER IS INSTALLED ON TOP OF COPPER CONDUCTOR

SNAPNRACK RL-U GROUNDING

SCALE: NT

STAINLESS SPLIT

6-12 AWG BARE

COPPER WIRE

SNAPNRACK RL-

FLASHTRACK OR

LOCK WASHER

SUNTUN

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APN:

4803-154-000-00026-001-0040-0000000

PROJECT NUMBER: 212R-741ROBE

(415) 580-6920 ex3 **DESIGNER:**

DAVID CLARK

SHEET **ELECTRICAL**

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ELECTRICAL SHOCK HAZARD

TERMINALS ON LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION:

INVERTER(S), AC/DC DISCONNECT(S), AC COMBINER PANEL (IF APPLICABLE). PER CODE(S): CEC 2019: 690.13(B), NEC 2017: 690.13(B)



POWER SOURCE OUTPUT CONNECTION

DO NOT RELOCATE THIS **OVERCURRENT DEVICE**

LABEL LOCATION: ADJACENT TO PV BREAKER (IF APPLICABLE). PER CODE(S): CEC 2019: 705.12(B)(2)(3)(b), NEC 2017: 705.12(B)(2)(3)(b)

WARNING

PHOTOVOLTAIC SYSTEM **COMBINER PANEL**

DO NOT ADD LOADS

LABEL LOCATION: PHOTOVOLTAIC AC COMBINER (IF APPLICABLE). PER CODE(S): CEC 2019: 705.12(B)(2)(3)(c)

NEC 2017: 705.12(B)(2)(3)(c)

WARNING

DUAL POWER SUPPLY SOURCES: UTILITY GRID

AND PV SOLAR ELECTRIC SYSTEM

LABEL LOCATION: UTILITY SERVICE METER AND MAIN SERVICE PANEL PER CODE(S): CEC 2019: 705.12(B)(3), NEC 2017: 705.12(B)(3)

INVERTER 1

PHOTOVOLTAIC DC DISCONNECT MAXIMUM SYSTEM VOLTAGE: 480 VDC MAXIMUM CIRCUIT CURRENT 30 ADC MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED): 15 ADC

LABEL LOCATION: INVERTER(S), DC DISCONNECT(S). PER CODE(S): CEC 2019: 690.53, NEC 2017: 690.53

NOTES AND SPECIFICATIONS:

- SIGNS AND LABELS SHALL MEET THE REQUIREMENTS OF THE NEC 2017 ARTICLE 110.21(B), UNLESS SPECIFIC INSTRUCTIONS ARE REQUIRED BY SECTION 690, OR IF REQUESTED BY THE LOCAL AHJ.
- SIGNS AND LABELS SHALL ADEQUATELY WARN OF HAZARDS USING EFFECTIVE WORDS, COLORS AND SYMBOLS.
- LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HAND WRITTEN.
- LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- SIGNS AND LABELS SHALL COMPLY WITH ANSI Z535.4-2011, PRODUCT SAFETY SIGNS AND LABELS. UNLESS OTHERWISE SPECIFIED.
- DO NOT COVER EXISTING MANUFACTURER LABELS.

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION:

INSTALLED WITHIN 3' OF RAPID SHUT DOWN SWITCH PER CODE(S): CEC 2019: 690.56(C)(3), NEC 2017: 690.56(C)(3). IFC 2012: 605.11.1. IFC 2018: 1204.5.3, CFC 2019: 1204.5.3

WARNING: PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION:

INTERIOR AND EXTERIOR DC CONDUIT EVERY 10 FT, AT EACH TURN. ABOVE AND BELOW PENETRATIONS. ON EVERY JB/PULL BOX CONTAINING DC CIRCUITS. PER CODE(S): CEC 2019: 690.31(G)(3), 690.31(G)(4), NEC 2017: 690.31(G)(3), 690.31(G)(4) IFC 2012: 605.11.1.4

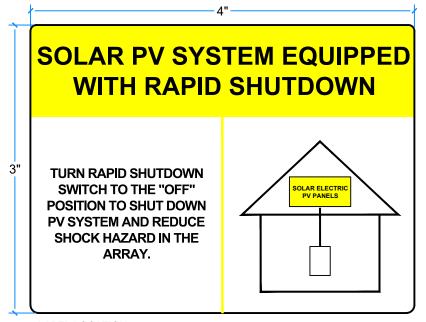
PHOTOVOLTAIC AC DISCONNECT

MAXIMUM AC OPERATING CURRENT: 32 AMPS NOMINAL OPERATING AC VOLTAGE: 240 VAC

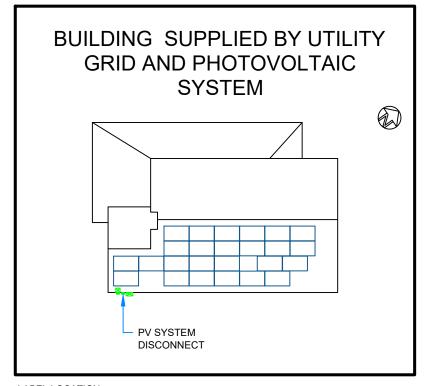
LABEL LOCATION:

AC DISCONNECT(S), PHOTOVOLTAIC SYSTEM POINT OF INTERCONNECTION.

PER CODE(S): CEC 2019: 690.54, NEC 2017: 690.54



LABEL LOCATION: ON OR NO MORE THAT 1 M (3 FT) FROM THE SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED. PER CODE(S): CEC 2019: 690.56(C)(1)(a), NEC 2017: 690.56(C)(1)(a)



LABEL LOCATION: POINT OF INTERCONNECTION (PER CODE: NEC690.56(B), NEC705.10, 225.37, 230.2(E))

SUNTUN

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DAVID CLARK

SIGNAGE

REV: A2

SHEET

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