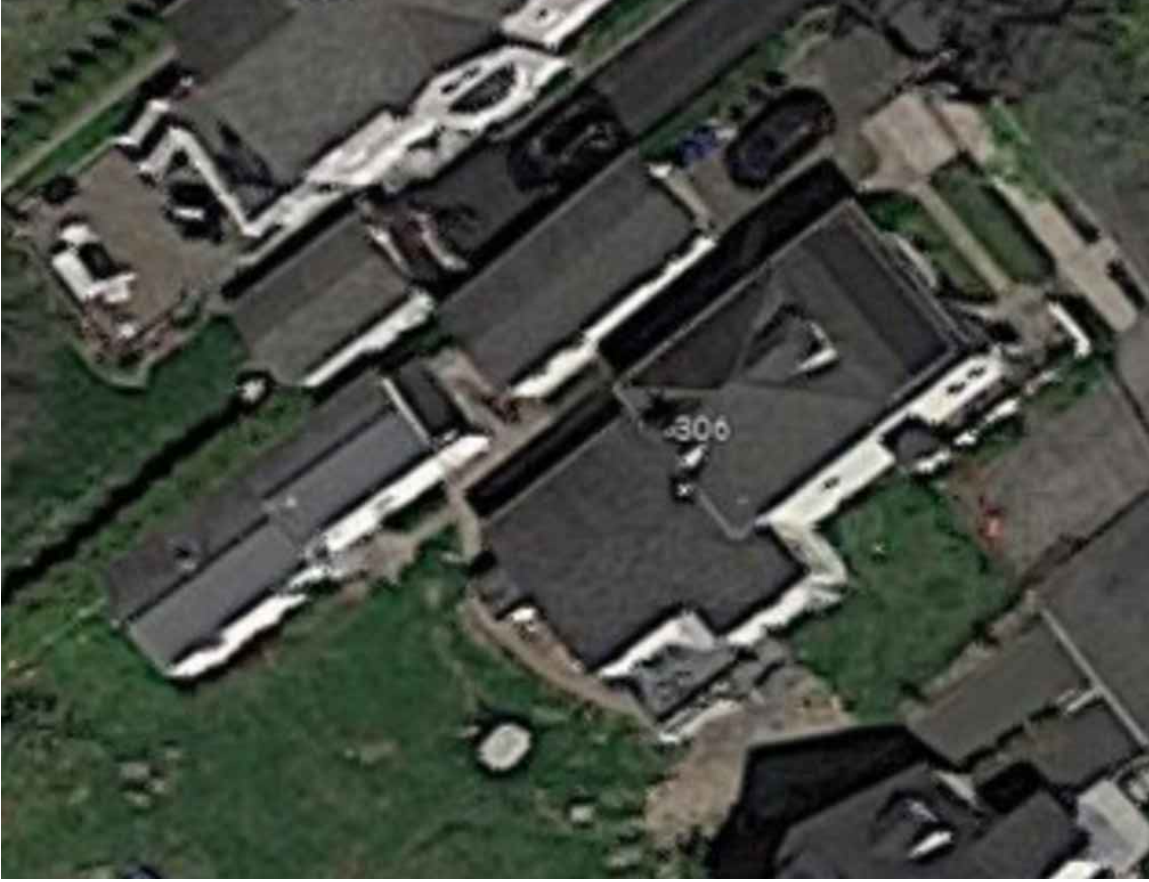


306 5 Stre 1FL, Mamaroneck, NY 10543-3102 USA		
Alfred Matoshi's Residence		
Solar Panels: (25) CS3N-395MS Modules		
Inverters: (25) IQ8PLUS-72-2-US Micro-Inverters		
Solar System DC Size: 9.88KW AC Size: 7.25KW		
Solar Annual Production : 10,421.00 KWH		
Designed By: UNIRAC		
Date: 04/21/2023		
Revision #	Approval Date	Description

AERIAL SITE VIEW



MAP OF BLOCK DISTRICTS

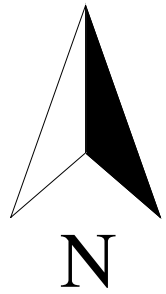


GPS COORDINATES

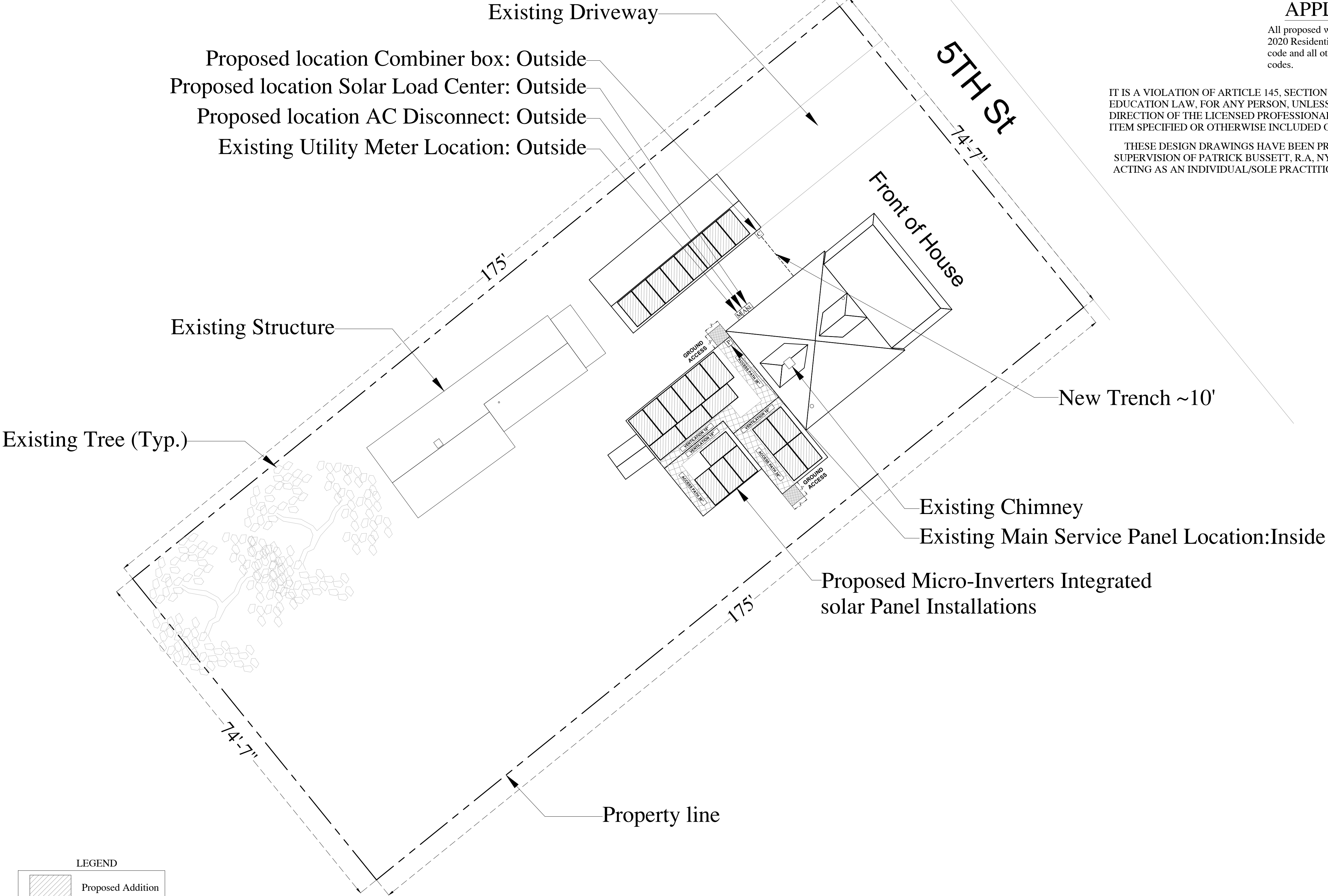
40.958421, -73.723353

DRAWING INDEX

1	Zoning Information, Site Plan	Z-000.00
2	Elevations and System Layout	A-000.00
3	Site Plan	Z-001.00
4	Racking and Load Calculations	S-000.00
5	Spreadsheet	S-001.00
6	Labels & Solar Map Placard	G-000.00
7	String Diagram	E-000.00
8	Label Sheet	E-001.00
9	Electrical 3-Line & Labels	E-002.00
10	BOM	G-001.00
11	PHOTO RENDERING	G-002.00
12	PHOTO RENDERING	G-00300
13	PHOTO RENDERING	G-004.00
14	PHOTO RENDERING	G-005.00
15	PHOTO RENDERING	G-006.00



LEGEND	
	Proposed Addition
	Existing Building
	Ventilation
	Obstruction



SITE PLAN

Scale:3/32" = 1'-0"

SCOPE OF WORK

SCOPE OF WORK IS SOLELY FOR THE INSTALLATION OF THE SOLAR ELECTRONIC GENERATING SYSTEM. ALL OTHER WORK IS NOT TO BE RELIED UPON AS BEING APPROVED AND/OR PERMITTED BY THE BUILDINGS DEPARTMENT.

NOTES

The existing roof structure for this project, as is or with the structural reinforcement specified on page S-000.00, has been structurally analyzed and has been determined to be capable of supporting the loads imposed by the installation of the proposed solar electrical generating system as described in these design documents.

There is no tree, utility line or any other potential hazard that could come into contact with any part of the solar electric generating system.

APPLICABLE CODES

All proposed work shall meet the standards specified in the 2020 Residential Code of New York, 2017 National electrical code and all other applicable local and state building and fire codes.

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Patrick Bussett  
Venture Solar  
67 West St, Brooklyn, NY 11222  
License # 105278



P.E./R.A. Stamps/ Signatures

10/27/2022

DOB Stamps/ Signatures

ZONING INFORMATION, SITE PLAN

**Z-000.00**

Scale: 3/32" = 1'-0"

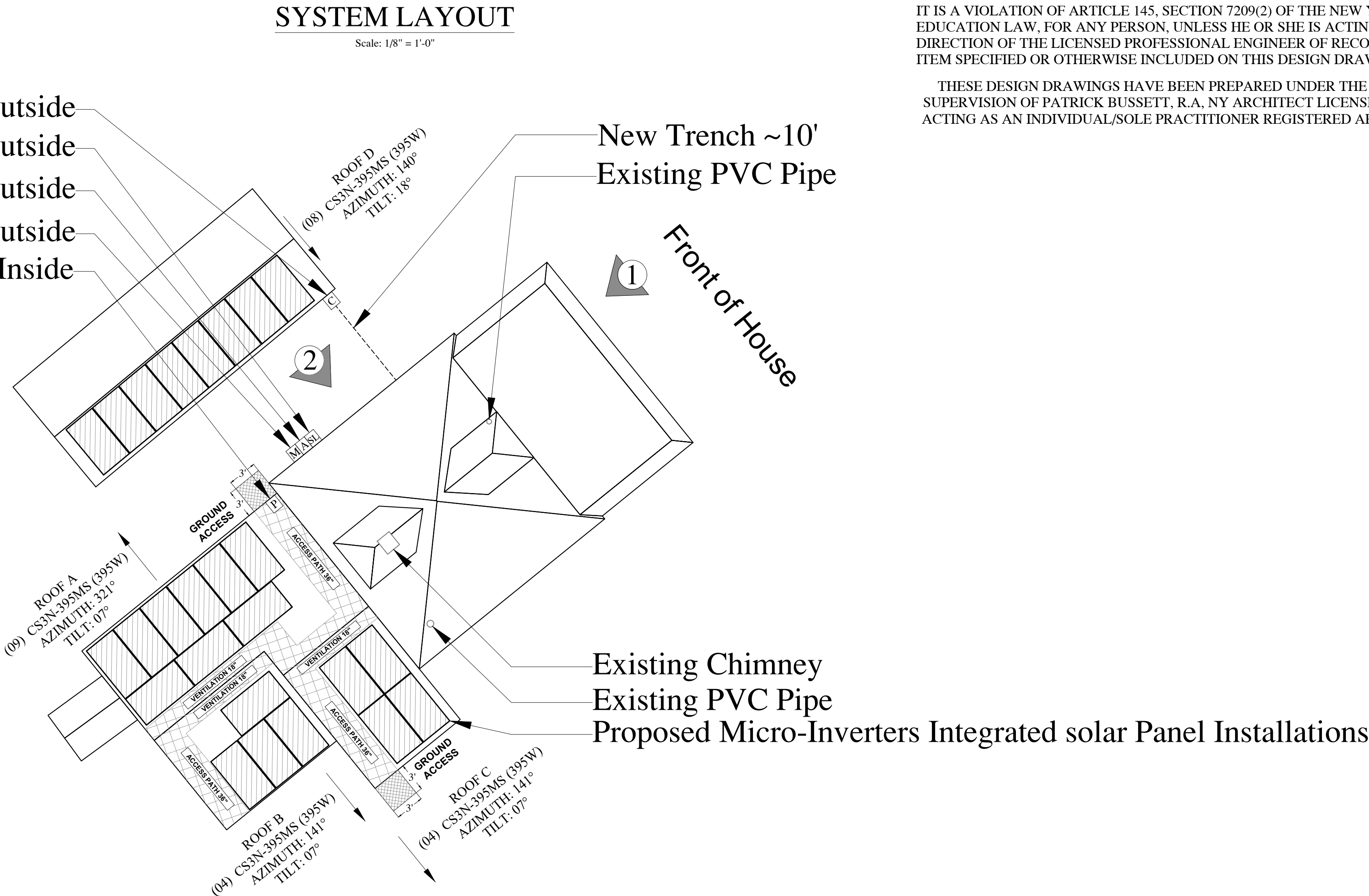
Page 1 of 15



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Proposed location Combiner box: Outside  
Proposed location Solar Load Center: Outside  
Proposed location AC Disconnect: Outside  
Existing Utility Meter Location: Outside  
Existing Main Service Panel Location:Inside

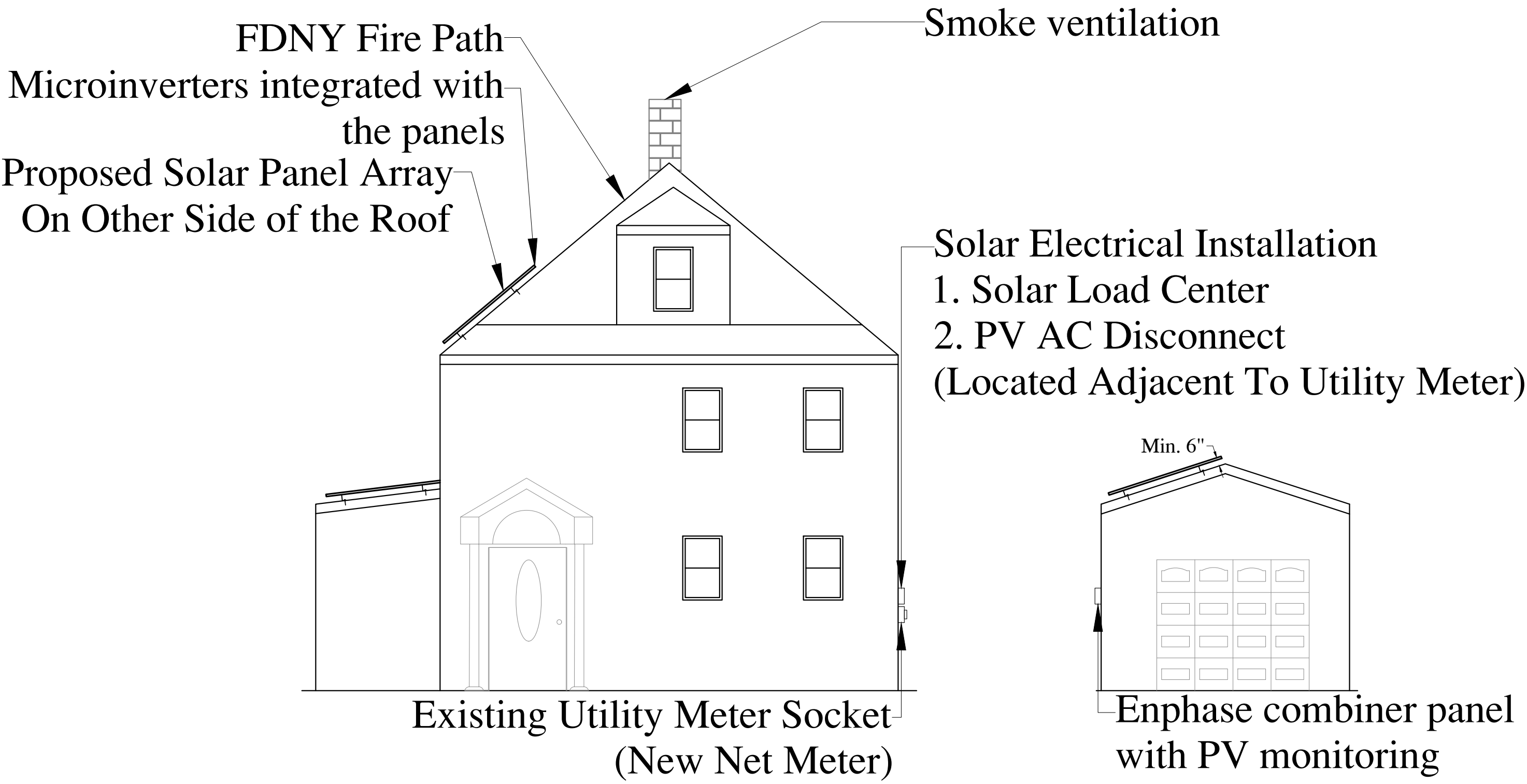
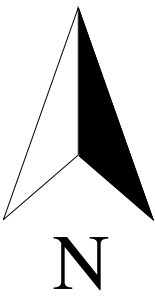


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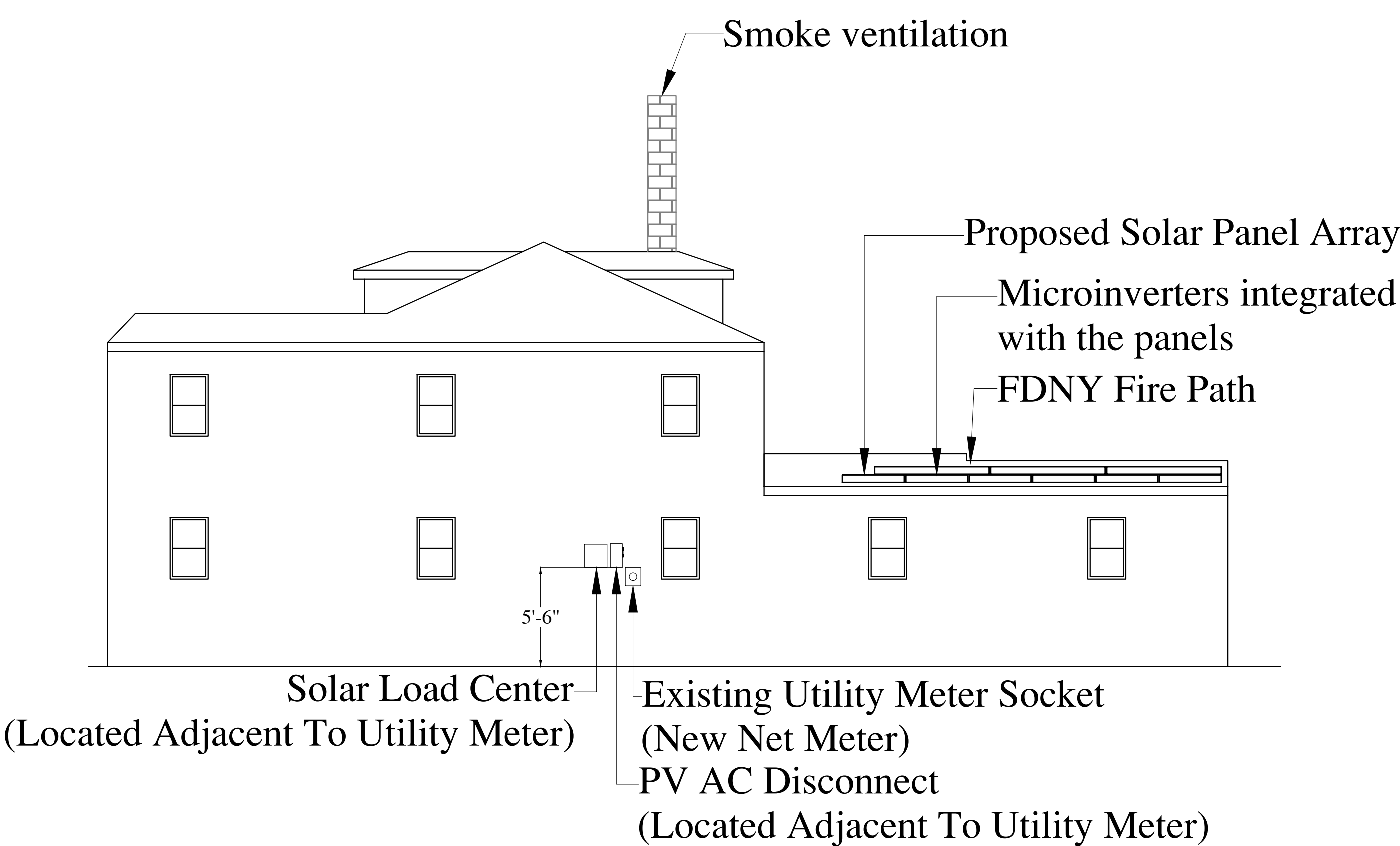
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ELEVATION LEGEND

	Vent Pipes 44", 16", 12" Tall
	Vent Box
	Vent Fan
	Skylight



1 ELEVATION NORTH EAST  
(FRONT SIDE OF HOME)



2 ELEVATION NORTH WEST  
(RIGHT SIDE OF HOME)

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Venture Solar  
67 West St, Brooklyn, NY 11222  
License # 105278



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ELEVATIONS, SYSTEM  
LAYOUT

**A-000.00**

Scale: 1/8" = 1'

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SITE PLAN

Scale:1/4" = 1'-0"

LEGEND

Proposed Addition

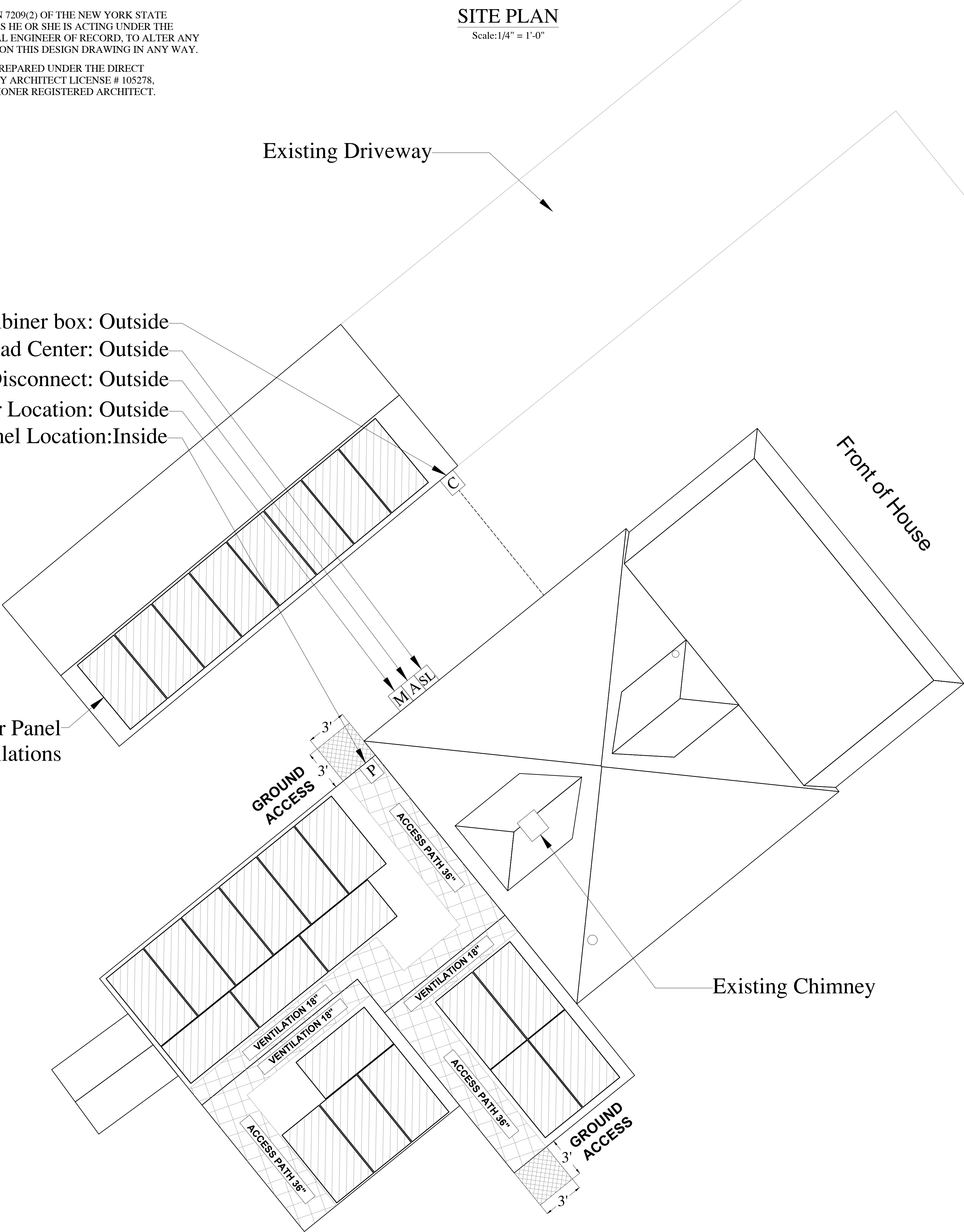
Existing Building

Ventilation

Obstruction

- Proposed location Combiner box: Outside
- Proposed location Solar Load Center: Outside
- Proposed location AC Disconnect: Outside
- Existing Utility Meter Location: Outside
- Existing Main Service Panel Location:Inside

Proposed Micro-Inverters Integrated solar Panel Installations



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Venture Solar  
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License # 105278



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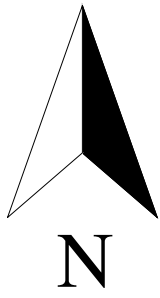
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10/27/2022  
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SITE PLAN

Z-001.00

Scale: 1/4" = 1'-0"

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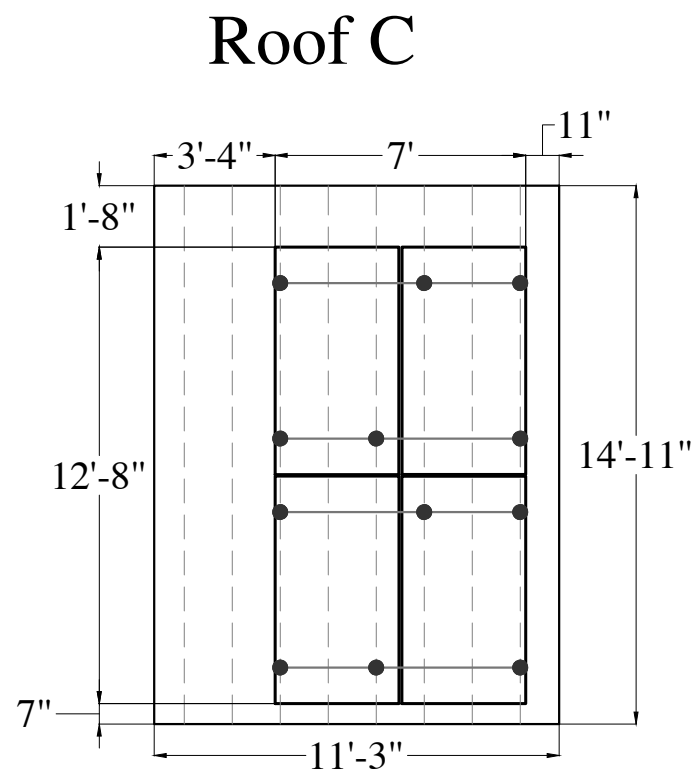
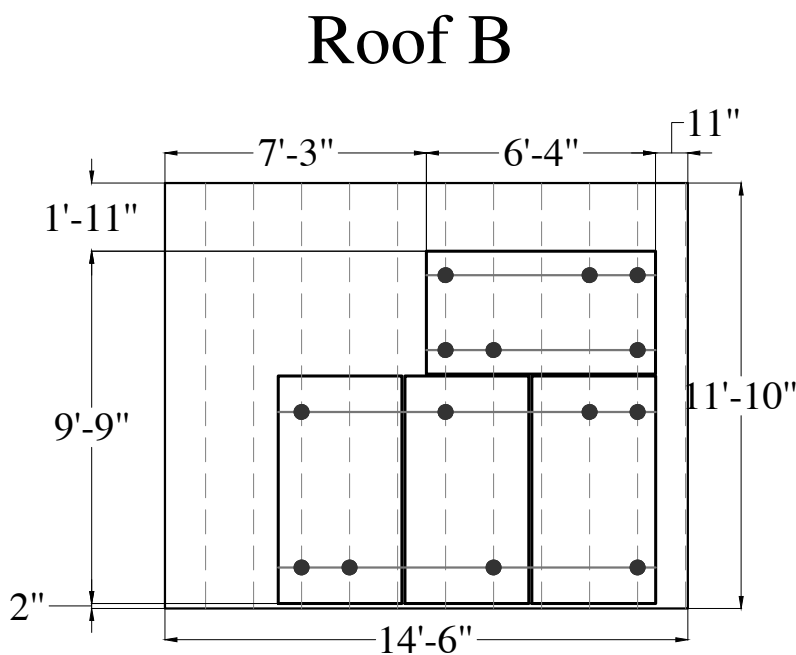
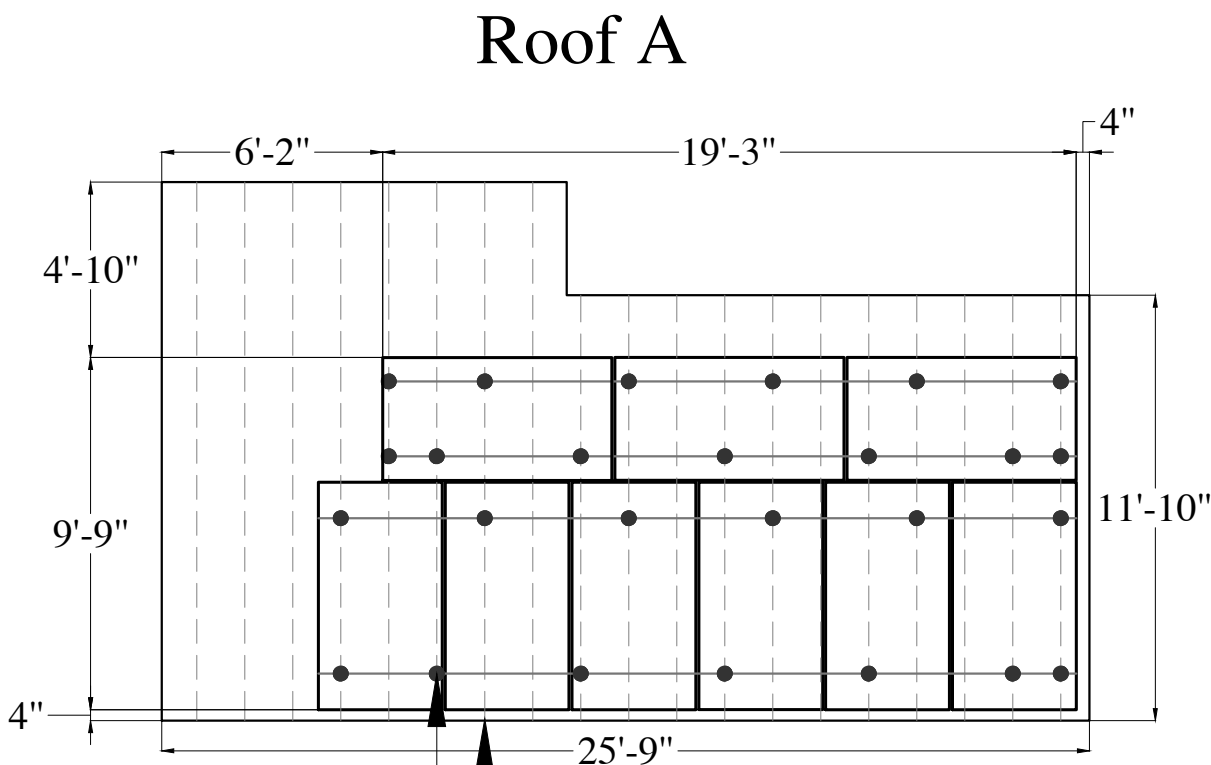


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UNIRAC STAGGERED STRONGHOLD  
ROOF ATTACHMENT

Scale: 3/16" = 1'-0"

LEGEND	
	CS3N-395MS Solar Panels
	MICRO-INVERTER
	ATTACHMENTS
	RAFTERS



Acceptable Rail Mounting Area  
L-Feet Rail Supports shall be installed at each  
end of rail and every 48" there after to support  
all Solar array wind and snow loads.Roof  
attachments shall be staggered.

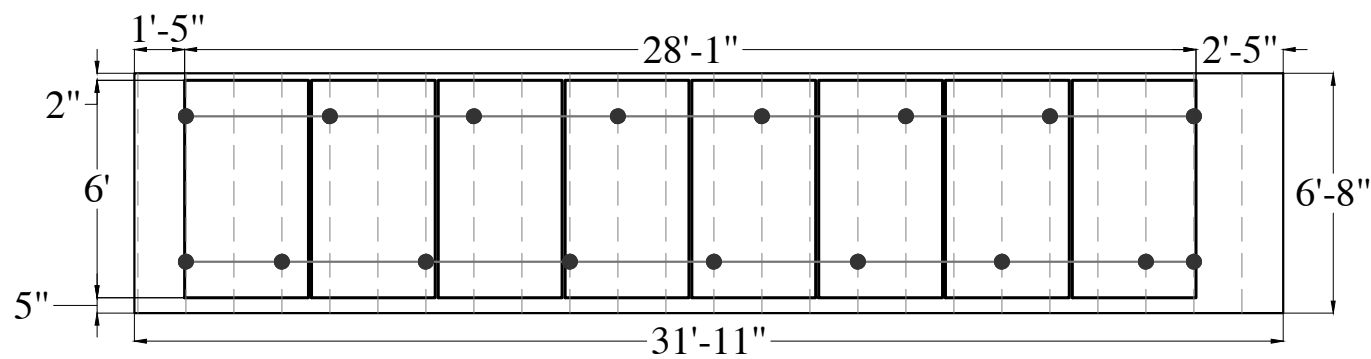
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Unirac Stronghold Attachment @48" O.C.

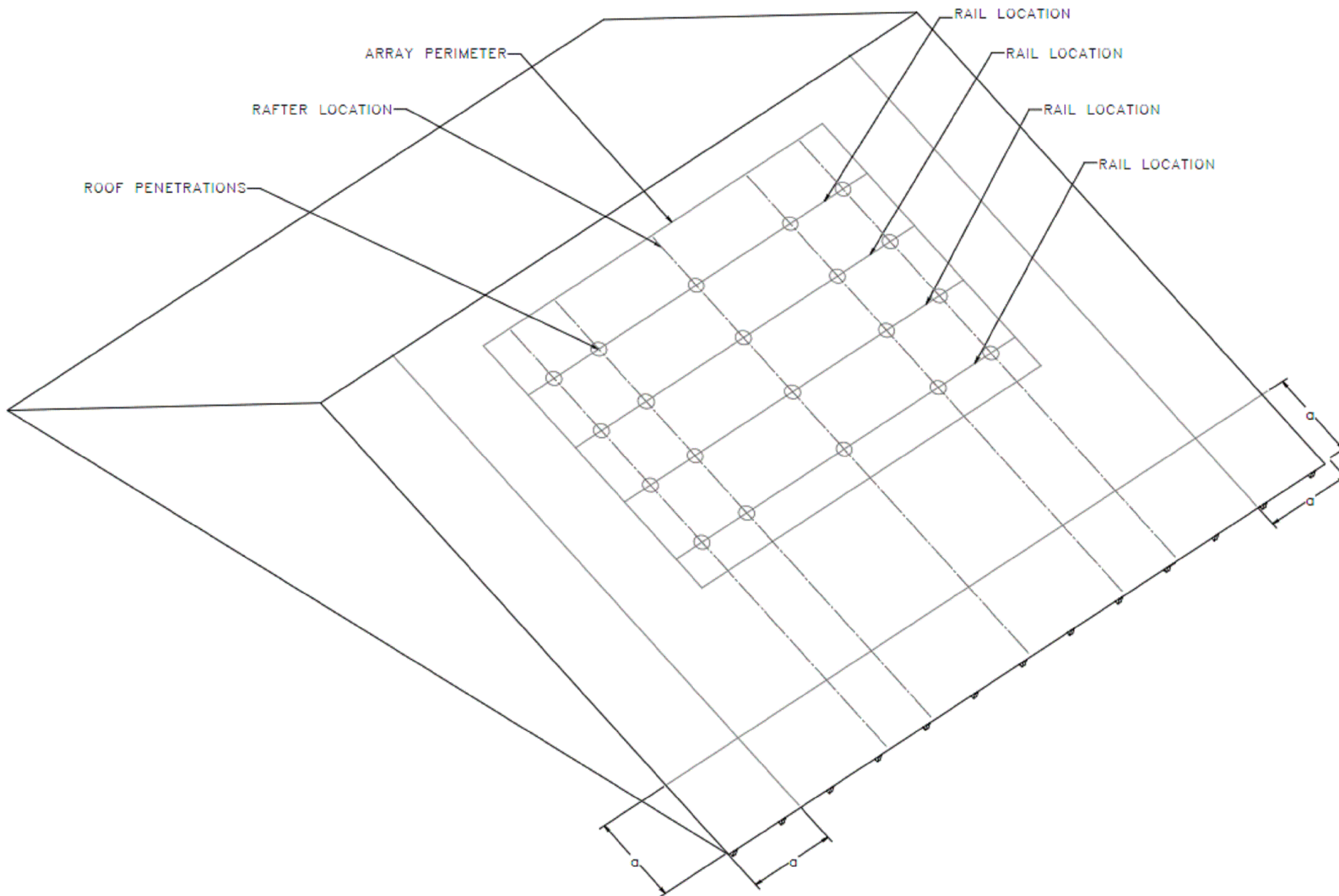
2"X8" Rafters @ 16" O.C.

Roof D



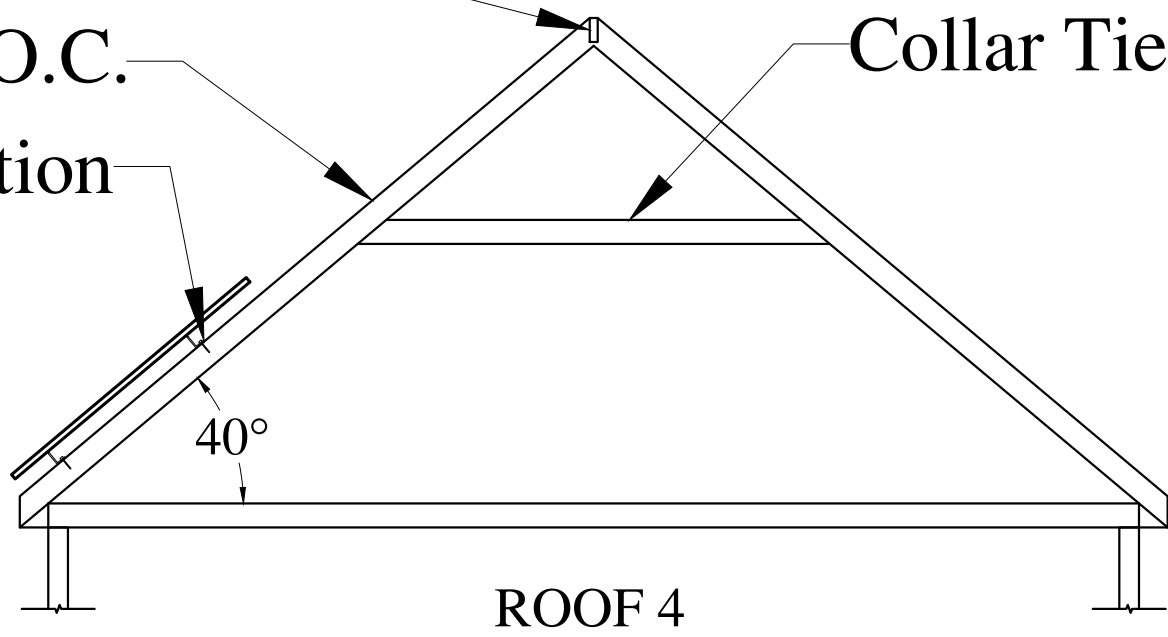
ROOF STRUCTURAL DETAILS:

Scale: 1/4" = 1'-0"

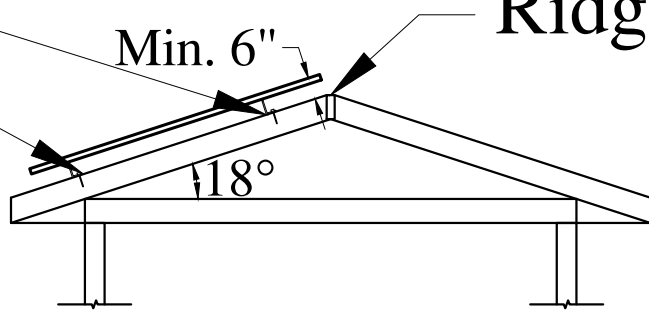


ROOF TILT: 7°,40°&18°

Ridge Beam  
2"X6" Rafters @ 20" O.C.  
L-Foot Installation  
Collar Tie



2"X8" Rafters @ 16" O.C.  
L-Foot Installation  
Ridge Beam



The PV modules will be maximum 6" off the roof surface.

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Venture Solar  
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License # 105278



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10/27/2022

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RACKING AND LOAD  
CALCULATIONS

**S-000.00**

Scale: SEE SCALE

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Labels comply with NEC 110.21(B) and ANSI Z535.4

COMBINER PANEL

AC Output Current: 30.25A

Nominal Operating AC Voltage: 240V

COMBINER PANEL

AC DISCONNECT

AC Output Current: 30.25A

Nominal Operating AC Voltage: 240V

A/C DISCONNECT




TWO POWER SOURCES INSIDE  
UTILITY AND SOLAR PV

MAIN DISTRIBUTION PANEL

WARNING: PHOTOVOLTAIC POWER  
SOURCE

JUNCTION BOX

CONDUIT EVERY 10 FT



ELECTRIC SHOCK HAZARD. THE  
DC CONDUCTORS OF THIS  
PHOTOVOLTAIC SYSTEM ARE  
UNGROUNDDED AND MAY BE  
ENERGIZED

JUNCTION BOX

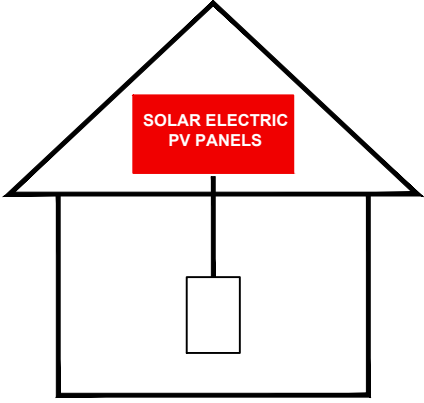


INVERTER OUTPUT CONNECTION;  
DO NOT RELOCATE THIS  
OVERCURRENT DEVICE

COMBINER PANEL

SOLAR PV SYSTEM EQUIPPED  
WITH RAPID SHUTDOWN

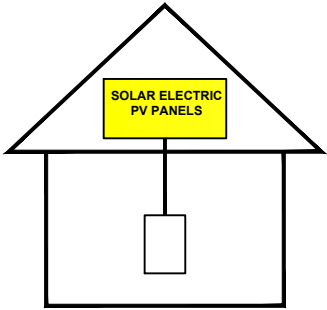
TURN RAPID SHUTDOWN  
SWITCH TO THE "OFF"  
POSITION TO SHUT DOWN  
CONDUCTORS OUTSIDE  
THE ARRAY. CONDUCTORS  
WITHIN THE ARRAY  
REMAIN ENERGIZED IN  
SUNLIGHT.



RAPID SHUTDOWN  
SYSTEM

SOLAR PV SYSTEM EQUIPPED  
WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN  
SWITCH TO THE "OFF"  
POSITION TO SHUT DOWN  
PV SYSTEM AND REDUCE  
SHOCK HAZARD IN THE  
ARRAY.




AT RAPID SHUTDOWN  
SYSTEM

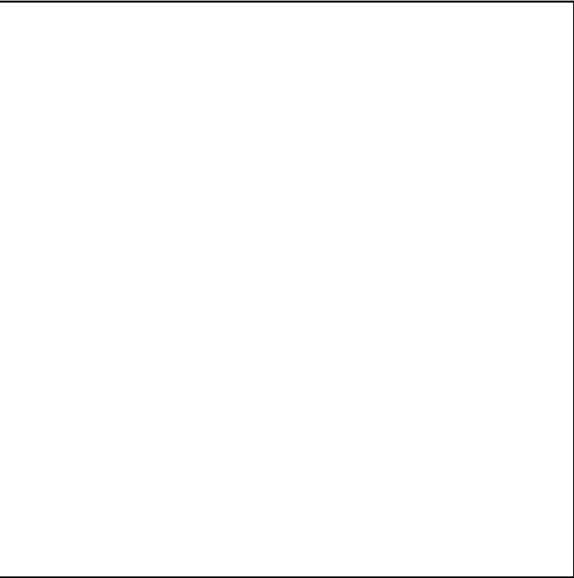
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10/27/2022

DOB Stamps/ Signatures



LABELS

G-000.00

Scale: NTS

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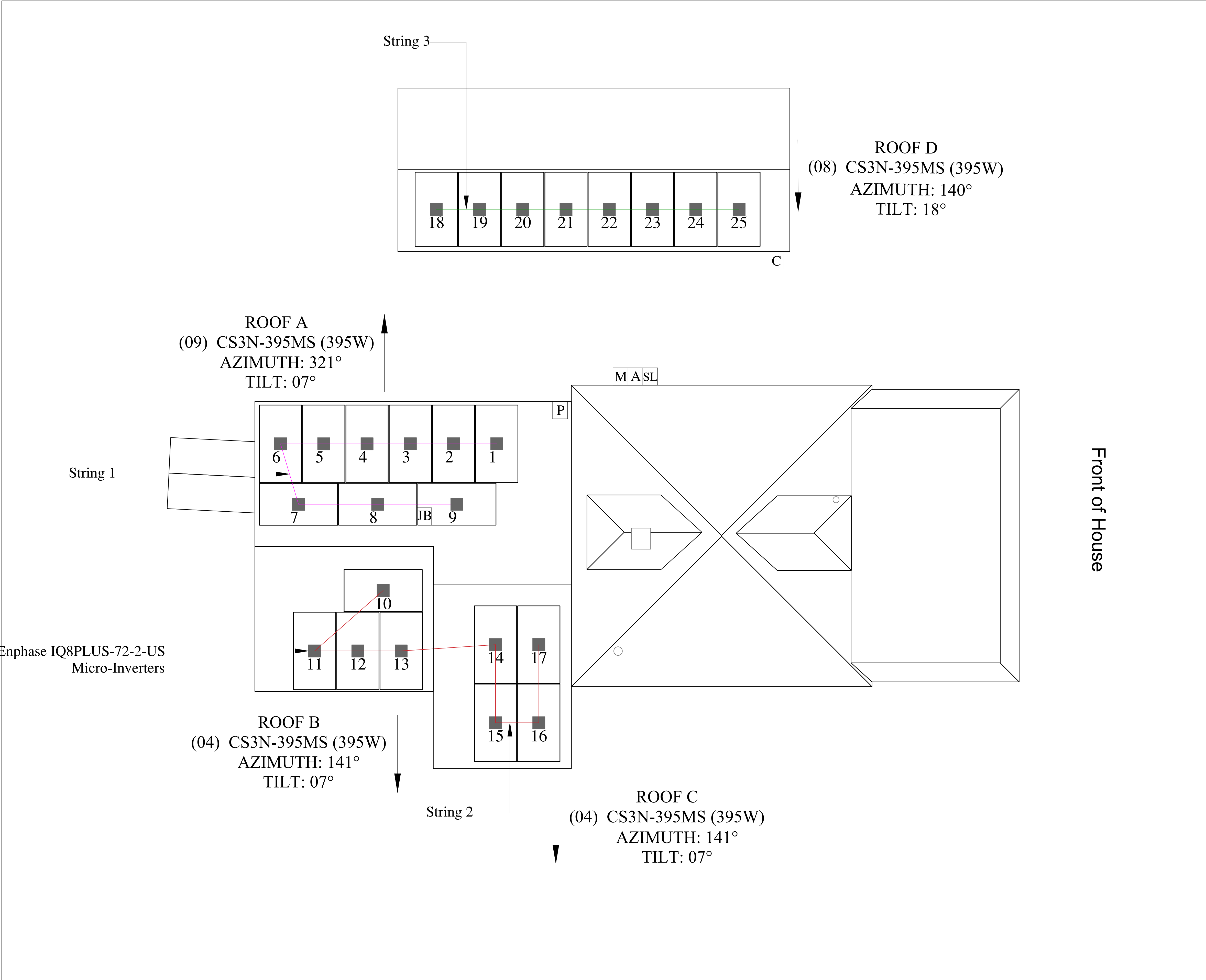


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String Diagram

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Labels Sheet

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String Number	Module Number	Sticker
1	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
2	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	

3	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	

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306 5 Stre 1FL, Mamaroneck, NY  
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STRING CALCULATIONS

(09) x 1.21A x 1.25 = 13.61A <20A --->OK

(08) x 1.21A x 1.25 = 12.10A <20A --->OK

(08) x 1.21A x 1.25 = 12.10A <20A --->OK

FUSE SIZE CALCULATIONS

(25) x 1.21A x 1.25 = 37.81A =< 60A fuse size

MODULE SPEC-SHEET

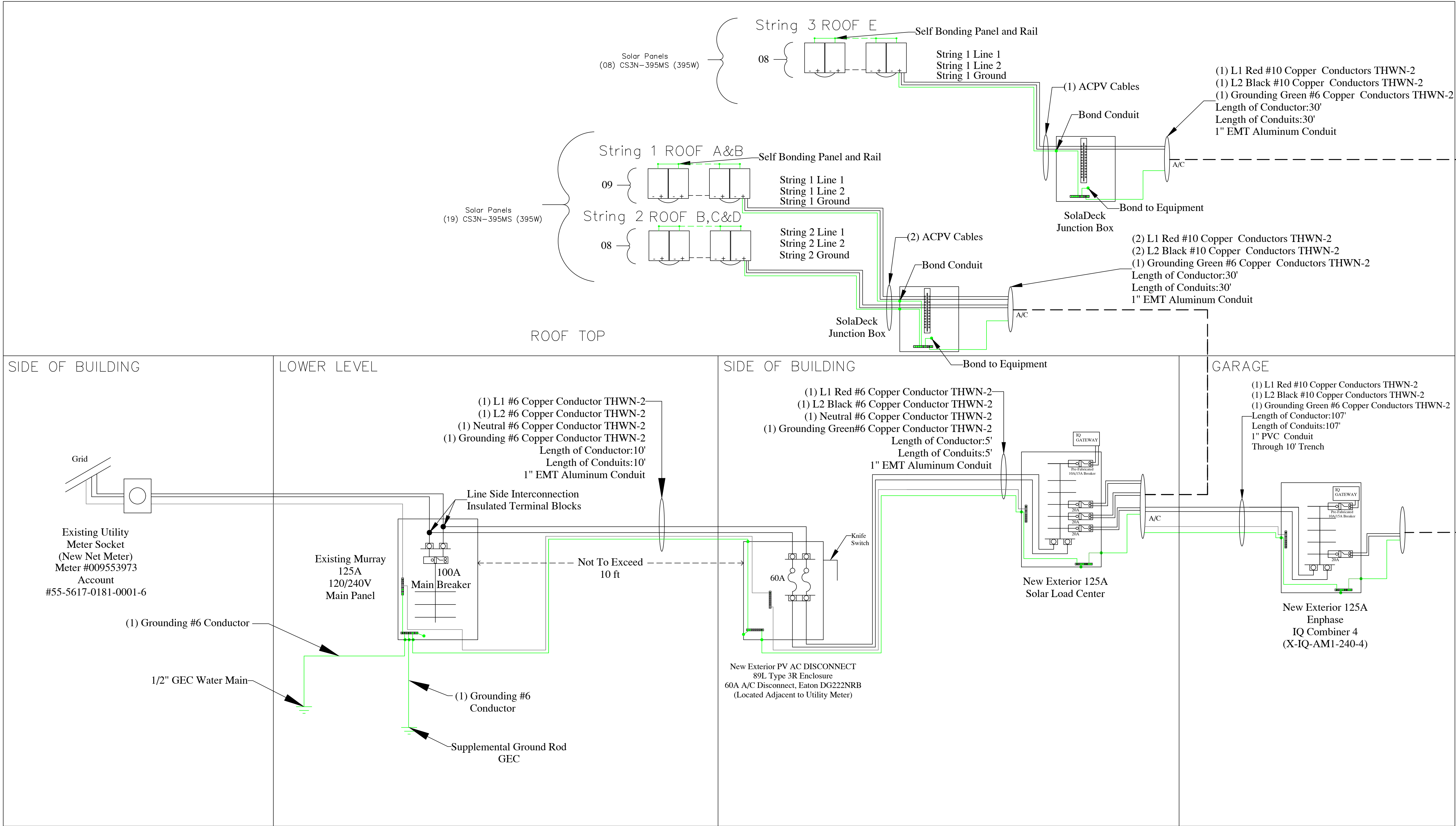
ELECTRICAL DATA   STC*	
CS3N	395MS 395MS 395MS 400MS 400MS 410MS
Nominal Max. Power (Pmax)	385 W, 395 W, 395 W, 400 W, 405 W, 410 W
Opt. Operating Voltage (Vmp)	36.6 V, 36.6 V, 37.0 V, 37.2 V, 37.4 V, 37.6 V
Opt. Operating Current (Imp)	10.52 A, 10.60 A, 10.68 A, 10.76 A, 10.83 A, 10.92 A
Open Circuit Voltage (Voc)	43.9 V, 44.1 V, 44.3 V, 44.5 V, 44.7 V, 44.9 V
Short Circuit Current (Isc)	11.32 A, 11.38 A, 11.44 A, 11.50 A, 11.56 A, 11.62 A
Module Efficiency	18.9%, 19.2%, 19.4%, 19.7%, 19.9%, 20.2%
Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500V (IEC6163) or 1500V (IEC6163)
Module Piv Performance	TYPE 1 (UL 61730 1500V) or TYPE 2 (UL 61730 1000V) or CLASS C (IEC 61730)
Max. Series Fuse Rating	20 A
Application Classification	Class A
Power Tolerance	0 ~ +10 W
*Power Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C	

CONDUCTOR SIZING CALCULATION

CIRCUIT DESCRIPTION	CURRENT	Imax (690.(8A))	Icont (690.(8B)(2)(a) calc	SPECIFIED CONDUCTOR	AMPACITY @ 90°C	AMBIENT TEMPERATURE °C	CURRENT CARRYING COND.	COND. OF USE APPLIED (690.(8B)(2)(b) calc
PV SOURCE STRING 1	9.00	10.89	10.89 x 1.25 = 13.61	#10 THWN-2	40	26-30	1-3	40A x 1 (amb. temp) x 1.0 (raceway fill) = 40.00A
PV SOURCE STRING 2	8.00	9.68	9.68 x 1.25 = 12.10	#10 THWN-2	40	26-30	1-3	40A x 1 (amb. temp) x 1.0 (raceway fill) = 40.00A
PV SOURCE STRING 3	8.00	9.68	9.68 x 1.25 = 12.10	#10 THWN-2	40	26-30	1-3	40A x 1 (amb. temp) x 1.0 (raceway fill) = 40.00A
COMBINER BOX OUTPUT	25.00	30.25	30.25 x 1.25 = 37.81	#6 THWN-2	75	26-30	1-3	75A x 1 (amb. temp) x 1.0 (raceway fill) = 75.00A
AC DISCONNECT OUTPUT	25.00	30.25	30.25 x 1.25 = 37.81	#6 THWN-2	75	26-30	1-3	75A x 1 (amb. temp) x 1.0 (raceway fill) = 75.00A

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DOB Stamps/ Signatures

ELECTRICAL 3-LINE &  
LABELS

E-002.00

Scale: NTS

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67 West St, Brooklyn, NY 11222  
www.venturehomesolar.com  
(800) 203-4158

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Date: 04/21/2023		

Revision #	Approval Date	Description

VENTURE SOLAR					
Customer Name	Alfred Matoshi				
Customer Address	306 5 Stre 1FL, Mamaroneck, NY 10543-3102 USA				
Team	UNIRAC				
ROOF			ELECTRICAL		
Description	Qty.	Bar Code	Description	Qty.	Bar Code
CAD 395	25		Enphase IQ Combiner 4	1	
Portrait Q Cable - #Conn	28		Enphase Mobile Connect	1	
Landscape Q Cable- #Conn	4		Enphase IQ7 Micro	0	
Q Term	5		Enphase IQ7+ Micro	0	
Q Seal	6		Eaton 20 A Breaker	3	
Q-Conn 10M	2		IPC - 4/0 - #6 (Taps)	0	
Q-Conn 10F	2		60 A Disconnect	1	
Micro Inverter T Bolt	28		60A Set of Fuses	1	
Wire Restraints	5		100 AMP Disconnect	0	
Ground Lug	8		100A Set of Fuses	0	
Pitched ROOF			125 A Combiner Panel	0	
FlashLoc Duo Box (Qty.20)	4		Square D 100 A Main Breaker	0	
Unirac Rail	16		Square D 20 A Breaker	0	
Unirac Splice	10		Square D 15 A Breaker	0	
Unirac Ends	33		Enphase IQ Envoy	0	
Unirac Mids	37		Enphase IQ7A Micro	0	
Solar Seal	3		Enphase IQ8 Micro	0	
Solar Deck	5		Enphase IQ8+ Micro	25	
Consumption CT x 1Sets	100		Enphase IQ8M Micro	0	
Fire and Smoke detector x 1 No	No		Enphase IQ8H Micro	0	
Battery Details					
Manufacturer	Type		Mfr. Part No. & Description		Qty
Enphase Energy Inc	Battery		ENCHARGE-10T-1P-INT AC Battery		0
Enphase Energy Inc	Other		EP200G101-M240US00 Enpower		0
Enphase Energy Inc	Monitor		COMMS-KIT-01 (Ensemble)		0
FLAT ROOF			CONFIRMATION		
Chemlink 6" E-curb Kit	0		Procurement Team Signature		
L- Foot Box w/ Nut & Bolt (Qty.24)	0				
4" Stand Off	0		Crew Foreman Signature		
Unirac Tilt 18 - 30"	0				
Unirac Tilt 26 - 44"	0				
Unirac Tilt 40 - 72"	0				
Silver Unirac Rail	0				
Silver Unirac Splice	0				
Silver Unirac End	0				
Silver Unirac Mid	0				
4" Lag	0				
8"x8"x4" Junction Box	0				

IT IS A VIOLATION OF ARTICLE 145, SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF THE LICENSED PROFESSIONAL ENGINEER OF RECORD, TO ALTER ANY ITEM SPECIFIED OR OTHERWISE INCLUDED ON THIS DESIGN DRAWING IN ANY WAY.

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DOB Stamps/ Signatures

BOM

G-001.00

Scale: NTS

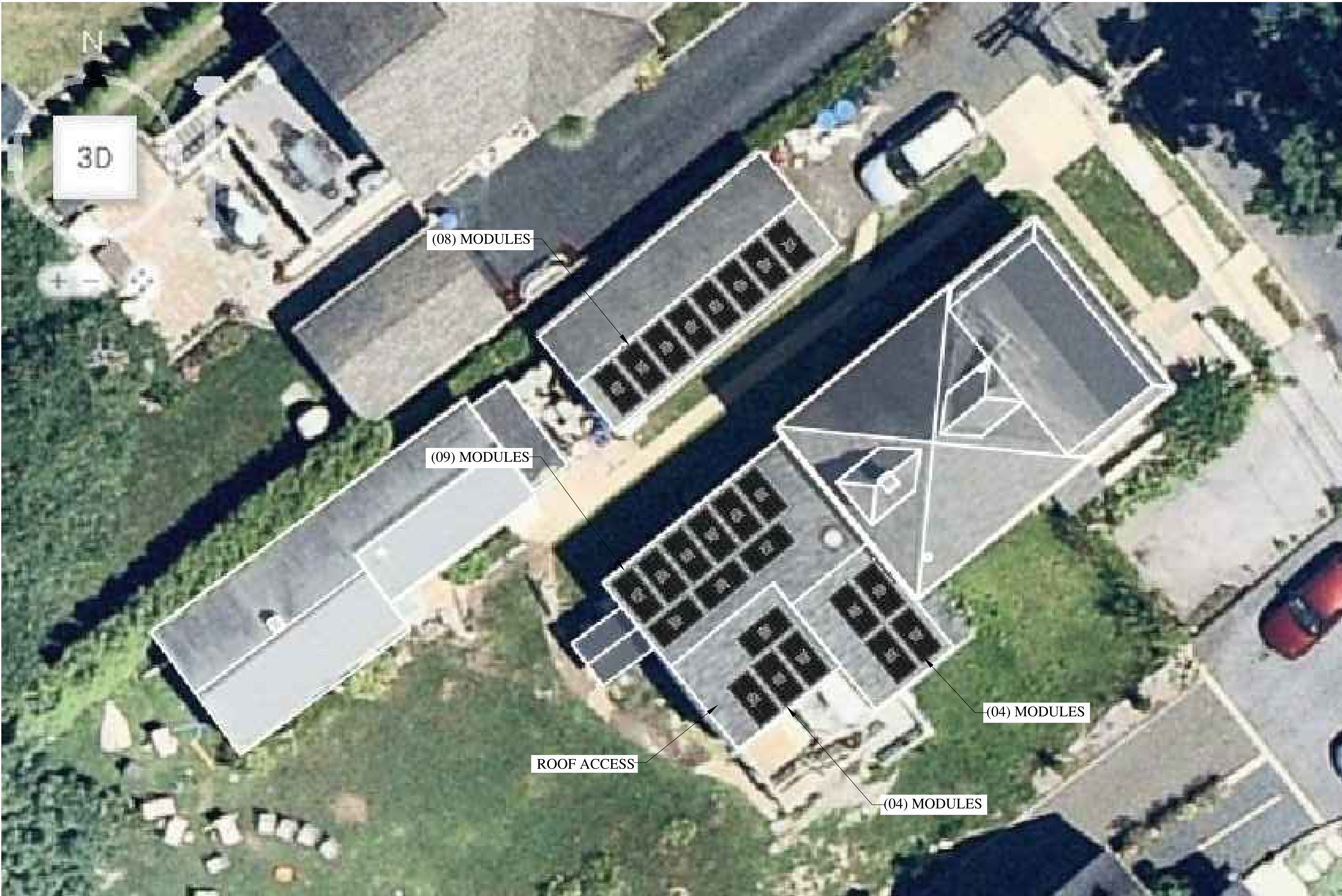
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306 5 Stre IFL, Mamaroneck, NY 10543-3102 USA		
Alfred Matoshi's Residence		
Solar Panels: (25) CS3N-395MS Modules		
Inverters: (25) IQ8PLUS-72-2-US Micro-Inverters		
Solar System DC Size: 9.88KW AC Size: 7.25KW		
Solar Annual Production : 10,421.00 KWH		
Designed By: UNIRAC		
Date: 04/21/2023		
Revision #	Approval Date	Description

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TOP VIEW OF HOUSE

DOB Stamps/ Signatures	
PHOTO RENDERING	
G-002.00	
Scale: NTS	
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