



ARCHITECTURAL & PRELIMINARY SITE PLAN REVIEW BOARD

MICHAEL F. LONGOBARDI – VILLAGE TRUSTEE LIAISON
TIMOTHY T. TWEEDY, P.E. – CHAIRMAN
JOHN LOCKWOOD
ANTHONY KRUYNSKI
ROGER KUEHNLENZ
EDWARD CHATTERTON

RENEE MARCUS, AIA – SUPERINTENDENT OF BUILDINGS
LUCILLE LANGONE – SECRETARY

SEPTEMBER 27, 2023

8:00 pm

Note Location: Village Hall – Fire Fighters Hall, 2nd Floor

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
1	8:00 p.m.	91	Hinsdale Avenue	Solar	Sunitha Talluri	Power Solutions
2	8:05 p.m.	26	Elm Avenue	Solar	Marco Buyson	Empower Solar
3	8:10 p.m.	28	Vanderbilt Avenue	Solar	Dane Mccarthy	Momentum Solar
4	8:15 p.m.	106	Charles Street	Solar	Priyasharan Sharma	Momentum Solar
5	8:20 p.m.	232	Floral Parkway	Solar	Cesar Trinidad	Momentum Solar
6	8:25 p.m.	101	Terrace Avenue	Exterior Alterations	Michael Sowinski	Mario R. Vergara Architect PC
7	8:30 p.m.	153	Tulip Avenue	2 Signs and Storefront	James Murphy	Graphic Reproduction South
8	8:35 p.m.	43	Childs Avenue	Roof Over Front Steps	Krunal Patel	Christopher Dowdell
9	8:40 p.m.	107	South Tyson Avenue	Sign	Anita Manfredonia	Millenium Signs & Display

Questions about the projects can be emailed to ARB@FPVillage.org prior to the meeting to allow for the Village and Applicant to be prepared with answers.

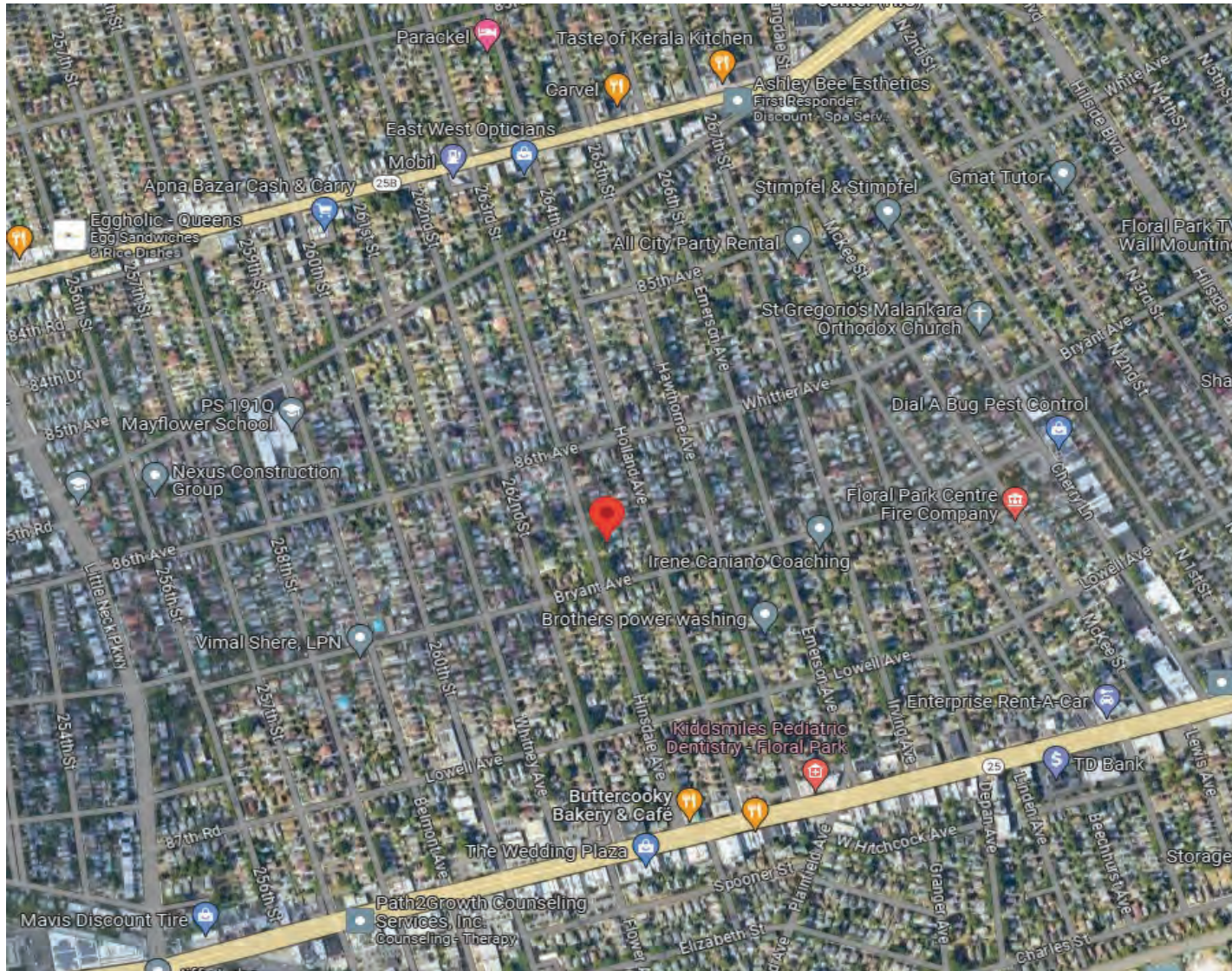
Supporting documents will be posted to the Architectural Review Board web page at least 24 hours prior to the meeting.

Click [here](#) for the ARB webpage.

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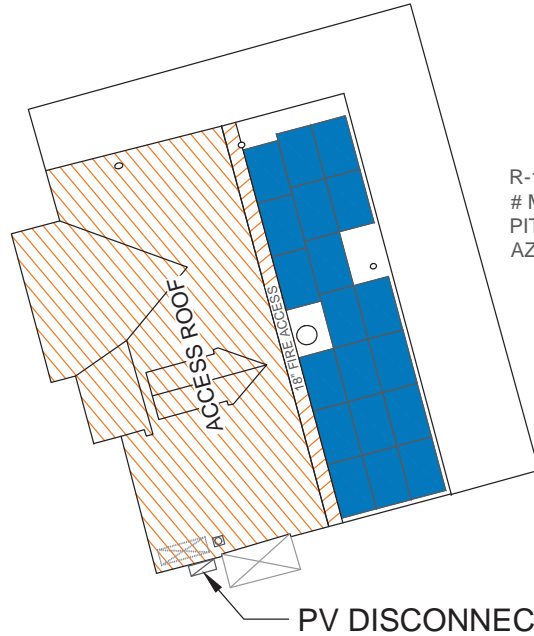


91 Hinsdale Avenue (Aerial View)



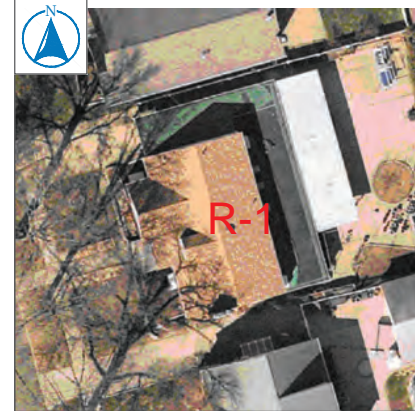


FRONT OF HOUSE



R-1
 # MODULES (19)
 PITCH: 18°
 AZIMUTH: 75°

AERIAL



SHEET INDEX

- S-1 SITE PLAN
- S-2 DETAILS
- E-1 ELECTRICAL PLAN
- L-1 MOUNTING PLAN

GENERAL NOTES

- ENPHASE MICRO INVERTER LOCATED ON ROOF BEHIND EACH MODULE.
- FIRST RESPONDER ACCESS MAINTAINED AND FROM ADJACENT ROOF.
- WIRE RUN FROM ARRAY TO CONNECTION IS 40 FEET.
- COGEN DISCONNECT IS LOCATED ADJACENT TO UTILITY METER.
- LAYOUT SUBJECT TO CHANGE BASED ON SITE CONDITIONS AT DATE OF INSTALL

LEGEND

- MAIN SERVICE PANEL (INTERIOR)
- COGEN DISCONNECT
- UTILITY METER



2060 OCEAN AVENUE,
 RONKONKOMA, NY 11779
 (631) 348-0001

**TALLURI
 RESIDENCE**

91 HINSDALE AVENUE
 FLORAL PARK, NY 11001
 352-895-2932
 S: 8 B: 84 L: 55

PROJECT DATA: #237312
 INVERTER: (19) ENPHASE IQ7X-96-2-US
 MODULES: (19) REC420AA PURE-R
 RACKING: IRON RIDGE XR100
 WATTAGE: 7,980
 ROOF TYPE: COMPOSITION SHINGLES
 WIND LOAD: -33PSF @ 130MPH
 FASTENER: 5/16" DIA. 5" SS LAGS



MICHAEL E. MIELE, PE
 Licensed Professional Engineer
 33 QUAKER AVE. - PO Box 530
 CORNWALL, NY 12518
 TELEPHONE: (845) 629.9693
 EMAIL: MikeMielePE@gmail.com



ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL

PAPER SIZE: 11" x 17" (ANSI B)

DATE: 7/20/2023
 DESIGN BY: MW
 CHECKED BY: EE
 REVISIONS:

REPRESENTS ALL FIRE CLEARANCE INCLUDING ALTERNATIVE METHODS

FIRST RESPONDER ACCESS
 MINIMUM OF 36" UNOBSTRUCTED AS PER
 THE 2020 RESIDENTIAL CODE OF NYS

2020 RESIDENTIAL CODE OF NEW YORK STATE, 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE,
 INC. VILLAGE OF FLORAL PARK CODE, 2017 NATIONAL ELECTRIC CODE, ASCE7-16.

SITE PLAN

S-1

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RESIDENCE**

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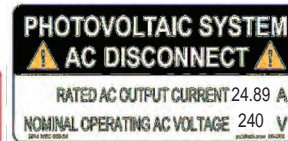
DATE: 7/20/2023
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CHECKED BY: EE
REVISIONS:

PHOTOVOLTAICS:
(19) REC420AA PURE-R
INVERTERS:
(19) ENPHASE IQ7X-96-2-US
CIRCUITS:
(1) CIRCUIT OF (10) MODULES
(1) CIRCUIT OF (9) MODULES

NEMA 3R
JUNCTION BOX
BLACK - L1
RED - L2
GREEN - GROUND

ENGAGE CABLE

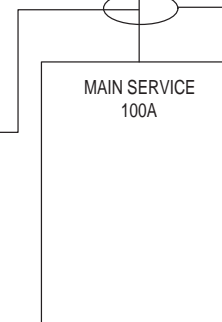
#12 AWG THWN FOR HOME RUNS UNDER 100'
#10 AWG THWN FOR HOME RUNS OVER 100'
(1) LINE 1
(1) LINE 2
(1) GROUND
PER CIRCUIT
IN 1" OR 1 1/2" PVC CONDUIT



METER



LINE SIDE TAP



AC DISTRIBUTION PANEL
OR SUB PANEL

60A FUSED SERVICE
RATED DISCONNECT
40A FUSE

125A LOAD CENTER
(1) - 20A BREAKER
PER CIRCUIT
DISCONNECT
ENVOY

#8 AWG THWN
(1) LINE 1
(1) LINE 2
(1) NEUTRAL
(1) EGC
IN 1" PVC CONDUIT

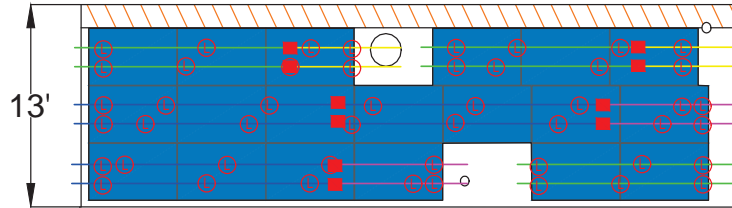
#6 AWG THWN
(1) LINE 1
(1) LINE 2
(1) NEUTRAL
(1) EGC
IN 1" PVC CONDUIT



AC COMBINER:
1-PHASE, MAIN LUG LOAD CENTER, 125A

NOTE:
ALL WIRING TO MEET THE 2017 NEC AND 2020 ENERGY CODE
60A FUSED SERVICE RATED DISCONNECT

2020 RESIDENTIAL CODE OF NEW YORK STATE, 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE,
INC. VILLAGE OF FLORAL PARK CODE, 2017 NATIONAL ELECTRIC CODE, ASCE7-16.



R-1
 # MODULES (19)
 PITCH: 18°
 AZIMUTH: 75°



- SPLICE BAR 10
- ⊙ PENETRATIONS 48
- UFO 48
- 40MM SLEEVE 20
- END CAPS 20
- CONSUMPTION
- CRITTER GUARD 140'



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MOUNTING PLAN

L-1



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ELEVATION
FRONT OF HOUSE

A-1



S:\Drawings\Talluri_Sunfile_237312.dwg



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SOUTH
ELEVATION

A-2



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REAR
ELEVATION

A-3





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NORTH
ELEVATION

A-4





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RENDERING
OVERHEAD

R-1



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RENDERING
BIRDS EYE

R-2



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RENDERING
BACK OF HOUSE

R-3



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 REVISIONS:

FRONT OF HOUSE
NO PANELS

R-4

SOLAR'S MOST TRUSTED



REC ALPHA PURE-R SERIES

PRODUCT SPECIFICATIONS

COMPACT PANEL SIZE

9 A MODULE CURRENT
COMPATIBLE WITH MLPE

430 WP
20.7 $\frac{W}{FT^2}$
22.3% EFFICIENCY



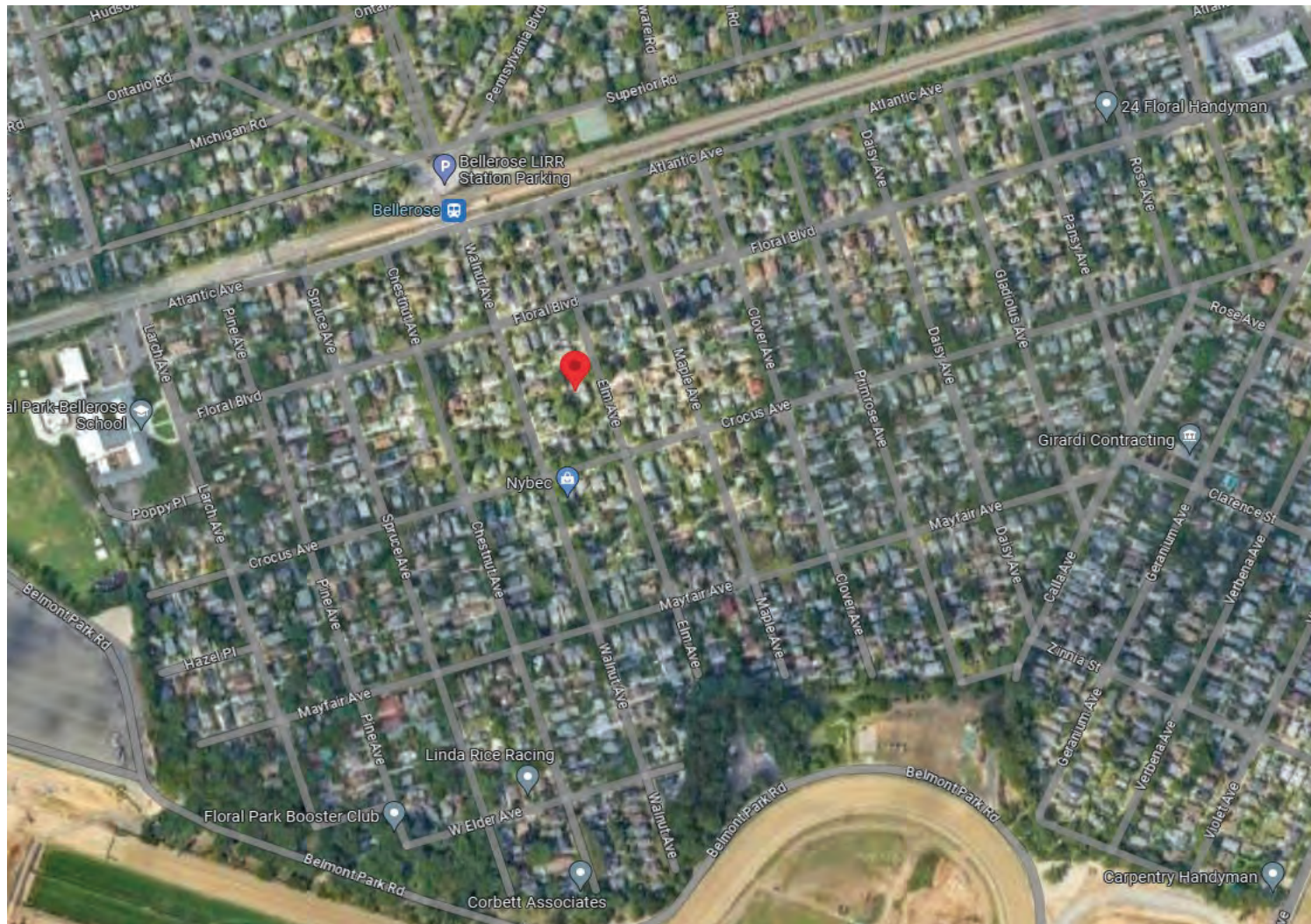
LEAD-FREE
ROHS COMPLIANT

EXPERIENCE
 α
PERFORMANCE

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
2	8:05 p.m.	26	Elm Avenue	Solar	Marco Buyson	Empower Solar



26 Elm Avenue (Aerial View)





ADT
SECURITY

ADT
SECURITY







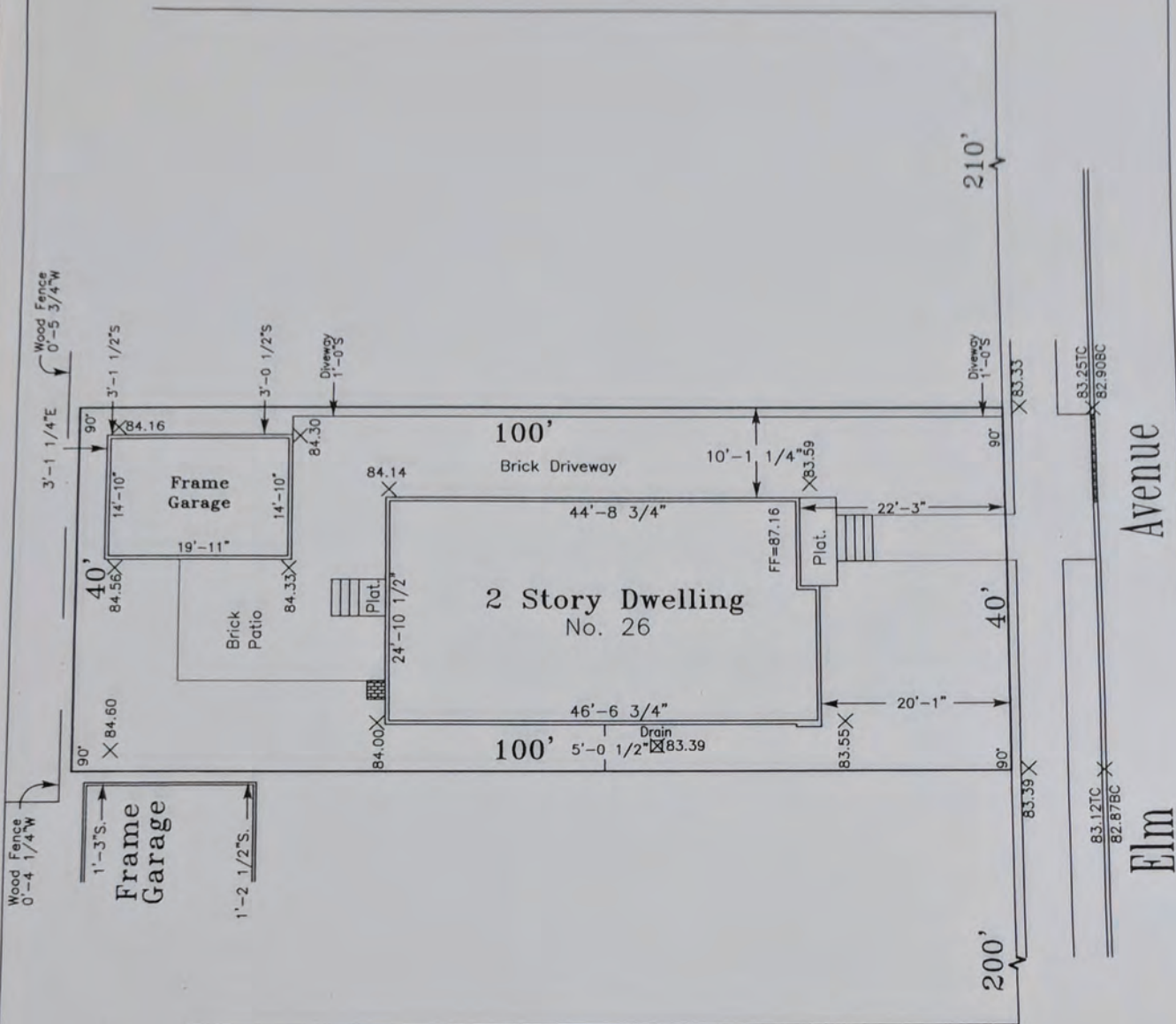






Floral

Boulevard



Avenue
 Elm

Crocus

Avenue



Certified To: Tru-Val Homes, Inc.

Final Survey
 FLORAL PARK, NASSAU COUNTY, N.Y.
ERLANDSEN-CROWELL & SHAW
 ESTABLISHED 1852

CIVIL ENGINEERS AND LAND SURVEYORS
 241 JERICHO TPKE NEW HYDE PARK, NY 11040 516-326-4353
 718-526-0339

DATE: April 14, 2006

66577-3

Scale: 1"=16'

Section #32 Tax Blk#163

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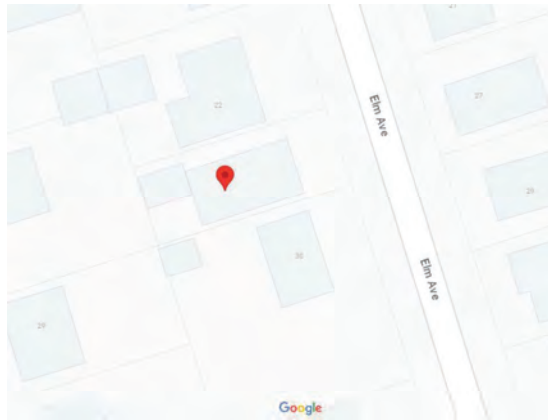








RESIDENTIAL SOLAR PROJECT



MAP

PROJECT TEAM:

OWNER: Marco Buyson

PHONE: (917) 968-3307

SOLAR INSTALLER:
EMPOWER SOLAR

4589 AUSTIN BLVD
ISLAND PARK, NY 11558

PHONE: 516-837-3459

ENGINEER OF RECORD:
GREGORY SACHS, PE

4589 AUSTIN BLVD
ISLAND PARK, NY 11558

PHONE: 516-837-3459

PROJECT LOCATION DATA:

ADDRESS:
26 Elm Ave, Floral Park, NY
11001

S:32 B:163 L:617

SHEET INDEX:

ST-01	COVER SHEET
S-01	EQUIPMENT LOCATIONS
S-02	STRUCTURAL
S-03	ESS SPECIFICATIONS
SE-01	ELECTRICAL

**EMPOWER
SOLAR**

4589 AUSTIN BLVD
ISLAND PARK, NY 11558
TEL: 516-837-3459
FAX: 516-706-1789
www.empower-solar.com

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PROFESSIONAL SEAL



REV:	DESCRIPTION:	DATE:

PROJECT NAME:

Marco Buyson

PROJECT LOCATION:
26 Elm Ave, Floral Park, NY
11001

PROJECT#:

PROJ. PHASE: PERMIT

DATE: 7/28/2023

DESIGNED BY: ED

CHECKED BY: GS

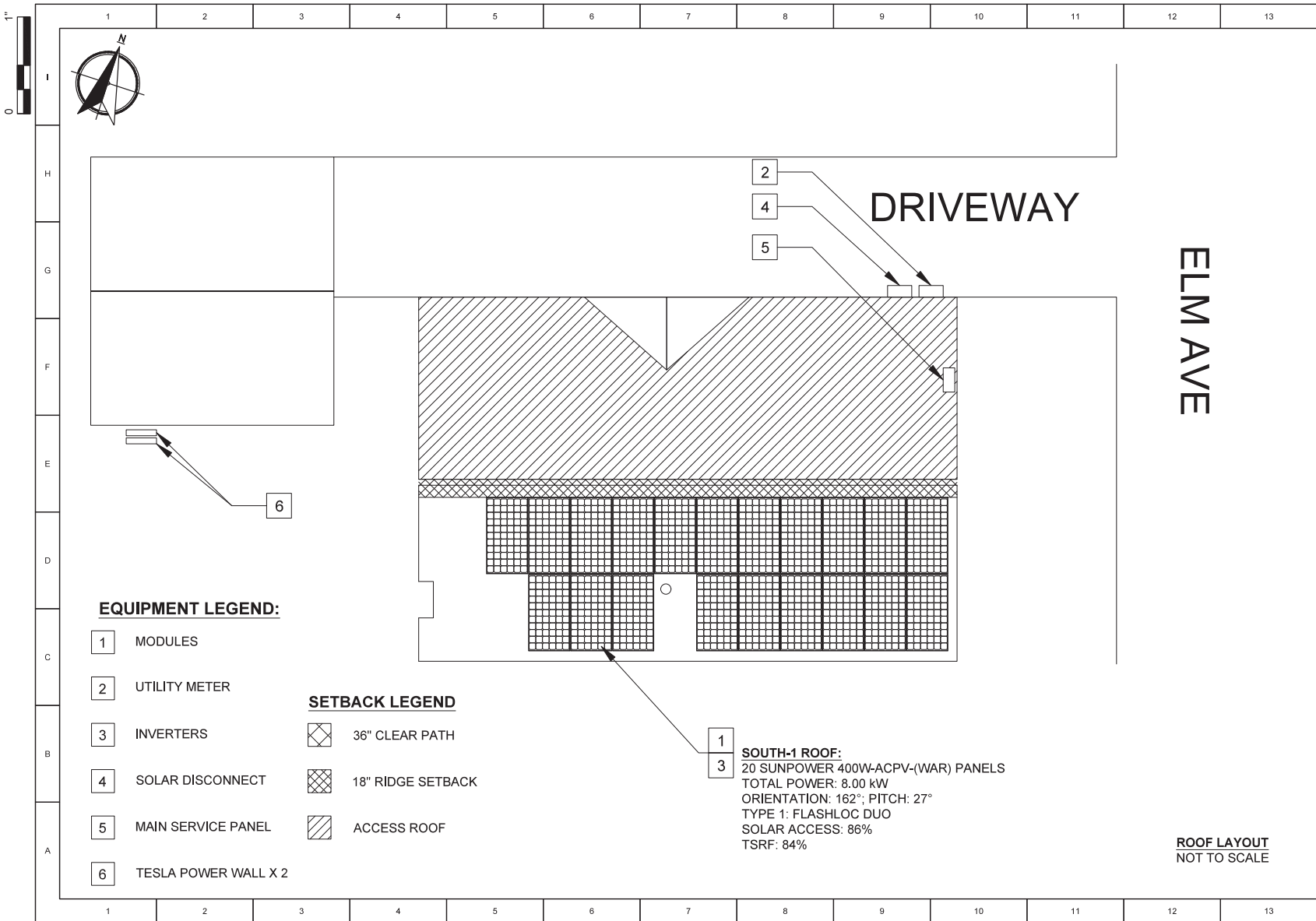
SCALE: NTS

TITLE:

COVER SHEET

SHEET:

ST-01



EQUIPMENT LEGEND:

- 1 MODULES
- 2 UTILITY METER
- 3 INVERTERS
- 4 SOLAR DISCONNECT
- 5 MAIN SERVICE PANEL
- 6 TESLA POWER WALL X 2

SETBACK LEGEND

- 36" CLEAR PATH
- 18" RIDGE SETBACK
- ACCESS ROOF

1 SOUTH-1 ROOF:
 3 20 SUNPOWER 400W-ACPV-(WAR) PANELS
 TOTAL POWER: 8.00 kW
 ORIENTATION: 162°; PITCH: 27°
 TYPE 1: FLASHLOC DUO
 SOLAR ACCESS: 86%
 TSRF: 84%

ROOF LAYOUT
 NOT TO SCALE

EMPOWER SOLAR
 4589 AUSTIN BLVD
 ISLAND PARK, NY 11558
 TEL: 516-837-3459
 FAX: 516-706-1789
 www.empower-solar.com

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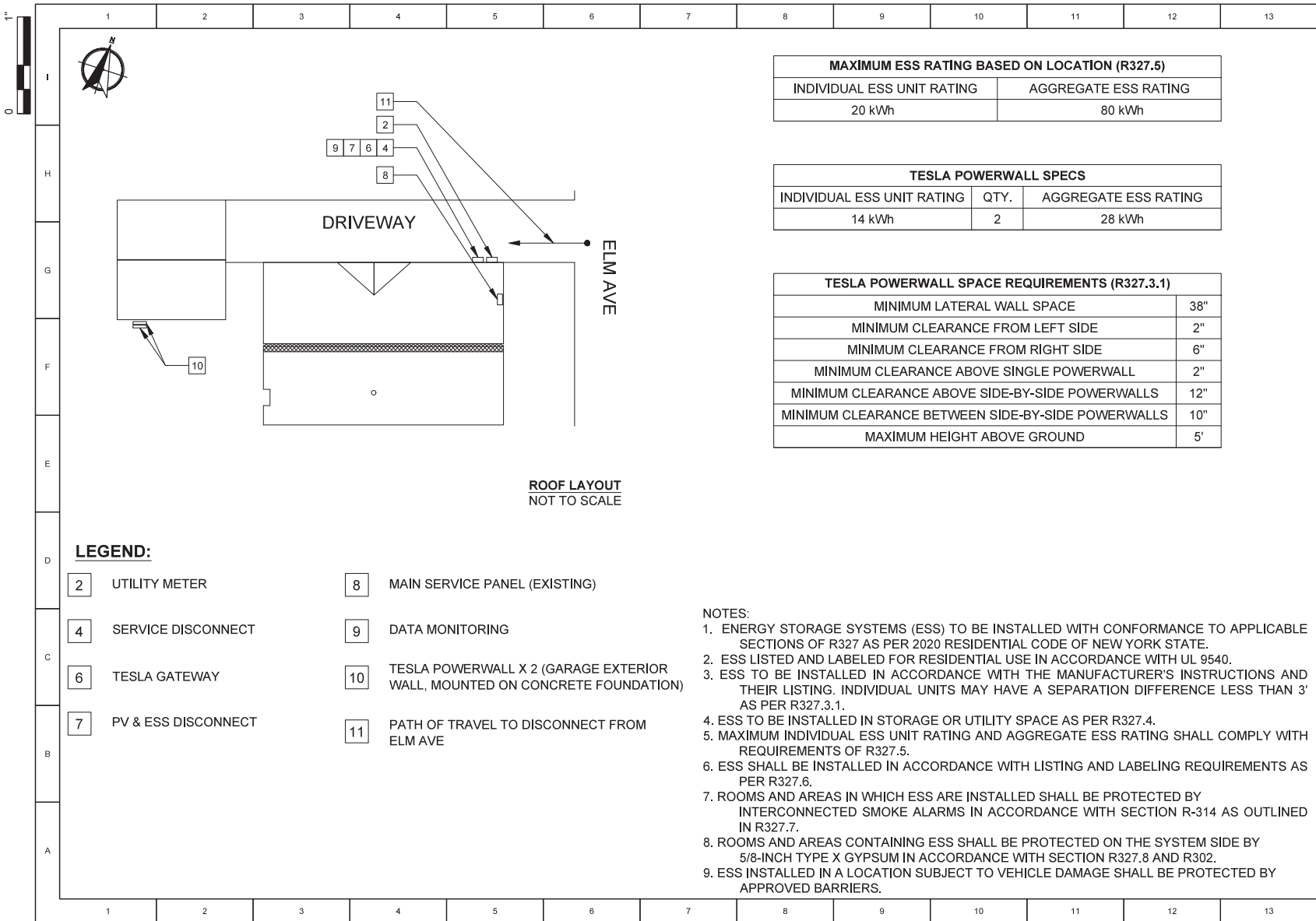
PROJECT NAME:
 BUYSON RESIDENCE

PROJECT LOCATION:
 26 ELM AVENUE
 FLORAL PARK, NY 11001

PROJECT#: _____
 PROJ. PHASE: PERMIT
 DATE: 07/28/2023
 DESIGNED BY: ED
 CHECKED BY: GS
 SCALE: NTS

TITLE:
 EQUIPMENT LOCATIONS

SHEET:
 S-01



LEGEND:

- | | | | |
|---|---------------------|----|--|
| 2 | UTILITY METER | 8 | MAIN SERVICE PANEL (EXISTING) |
| 4 | SERVICE DISCONNECT | 9 | DATA MONITORING |
| 6 | TESLA GATEWAY | 10 | TESLA POWERWALL X 2 (GARAGE EXTERIOR WALL, MOUNTED ON CONCRETE FOUNDATION) |
| 7 | PV & ESS DISCONNECT | 11 | PATH OF TRAVEL TO DISCONNECT FROM ELM AVE |

NOTES:

1. ENERGY STORAGE SYSTEMS (ESS) TO BE INSTALLED WITH CONFORMANCE TO APPLICABLE SECTIONS OF R327 AS PER 2020 RESIDENTIAL CODE OF NEW YORK STATE.
2. ESS LISTED AND LABELED FOR RESIDENTIAL USE IN ACCORDANCE WITH UL 9540.
3. ESS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THEIR LISTING. INDIVIDUAL UNITS MAY HAVE A SEPARATION DIFFERENCE LESS THAN 3' AS PER R327.3.1.
4. ESS TO BE INSTALLED IN STORAGE OR UTILITY SPACE AS PER R327.4.
5. MAXIMUM INDIVIDUAL ESS UNIT RATING AND AGGREGATE ESS RATING SHALL COMPLY WITH REQUIREMENTS OF R327.5.
6. ESS SHALL BE INSTALLED IN ACCORDANCE WITH LISTING AND LABELING REQUIREMENTS AS PER R327.6.
7. ROOMS AND AREAS IN WHICH ESS ARE INSTALLED SHALL BE PROTECTED BY INTERCONNECTED SMOKE ALARMS IN ACCORDANCE WITH SECTION R-314 AS OUTLINED IN R327.7.
8. ROOMS AND AREAS CONTAINING ESS SHALL BE PROTECTED ON THE SYSTEM SIDE BY 5/8-INCH TYPE X GYPSUM IN ACCORDANCE WITH SECTION R327.8 AND R302.
9. ESS INSTALLED IN A LOCATION SUBJECT TO VEHICLE DAMAGE SHALL BE PROTECTED BY APPROVED BARRIERS.

MAXIMUM ESS RATING BASED ON LOCATION (R327.5)	
INDIVIDUAL ESS UNIT RATING	AGGREGATE ESS RATING
20 kWh	80 kWh

TESLA POWERWALL SPECS		
INDIVIDUAL ESS UNIT RATING	QTY.	AGGREGATE ESS RATING
14 kWh	2	28 kWh

TESLA POWERWALL SPACE REQUIREMENTS (R327.3.1)	
MINIMUM LATERAL WALL SPACE	38"
MINIMUM CLEARANCE FROM LEFT SIDE	2"
MINIMUM CLEARANCE FROM RIGHT SIDE	6"
MINIMUM CLEARANCE ABOVE SINGLE POWERWALL	2"
MINIMUM CLEARANCE ABOVE SIDE-BY-SIDE POWERWALLS	12"
MINIMUM CLEARANCE BETWEEN SIDE-BY-SIDE POWERWALLS	10"
MAXIMUM HEIGHT ABOVE GROUND	5'

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PROFESSIONAL SEAL



REV.	DESCRIPTION	DATE
------	-------------	------

PROJECT NAME:
BUYSON RESIDENCE

PROJECT LOCATION:

PROJECT#:

PROJ. PHASE: PERMIT

DATE: 07/28/2023

DESIGNED BY: IV

CHECKED BY: GS

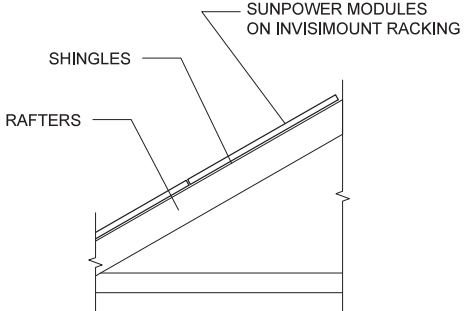
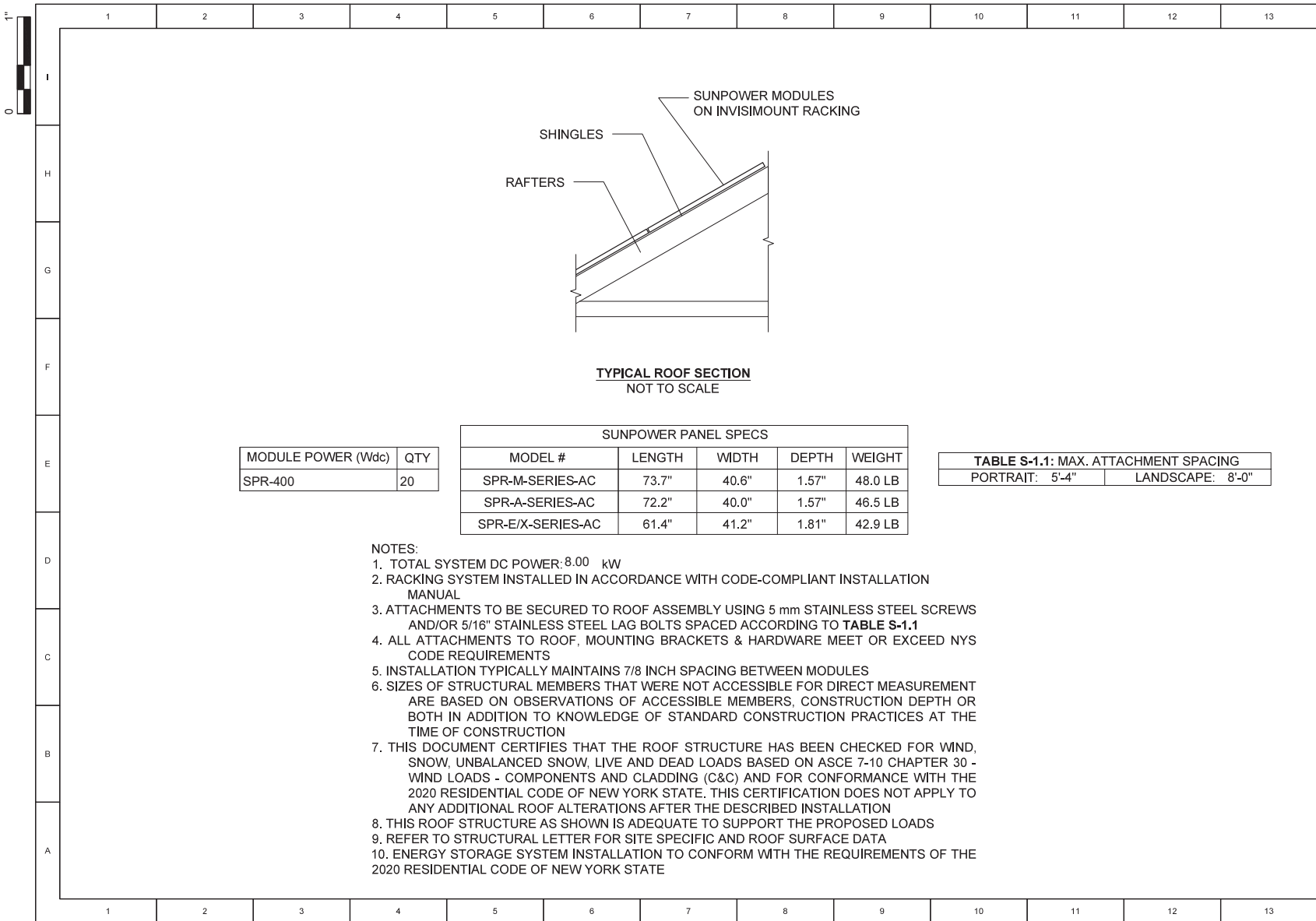
SCALE: NTS

TITLE:

ENERGY STORAGE SYSTEM SPECIFICATIONS

SHEET:

S-03



TYPICAL ROOF SECTION
NOT TO SCALE

MODULE POWER (Wdc)	QTY
SPR-400	20

SUNPOWER PANEL SPECS				
MODEL #	LENGTH	WIDTH	DEPTH	WEIGHT
SPR-M-SERIES-AC	73.7"	40.6"	1.57"	48.0 LB
SPR-A-SERIES-AC	72.2"	40.0"	1.57"	46.5 LB
SPR-E/X-SERIES-AC	61.4"	41.2"	1.81"	42.9 LB

TABLE S-1.1: MAX. ATTACHMENT SPACING	
PORTRAIT: 5'-4"	LANDSCAPE: 8'-0"

- NOTES:
- TOTAL SYSTEM DC POWER: 8.00 kW
 - RACKING SYSTEM INSTALLED IN ACCORDANCE WITH CODE-COMPLIANT INSTALLATION MANUAL
 - ATTACHMENTS TO BE SECURED TO ROOF ASSEMBLY USING 5 mm STAINLESS STEEL SCREWS AND/OR 5/16" STAINLESS STEEL LAG BOLTS SPACED ACCORDING TO **TABLE S-1.1**
 - ALL ATTACHMENTS TO ROOF, MOUNTING BRACKETS & HARDWARE MEET OR EXCEED NYS CODE REQUIREMENTS
 - INSTALLATION TYPICALLY MAINTAINS 7/8 INCH SPACING BETWEEN MODULES
 - SIZES OF STRUCTURAL MEMBERS THAT WERE NOT ACCESSIBLE FOR DIRECT MEASUREMENT ARE BASED ON OBSERVATIONS OF ACCESSIBLE MEMBERS, CONSTRUCTION DEPTH OR BOTH IN ADDITION TO KNOWLEDGE OF STANDARD CONSTRUCTION PRACTICES AT THE TIME OF CONSTRUCTION
 - THIS DOCUMENT CERTIFIES THAT THE ROOF STRUCTURE HAS BEEN CHECKED FOR WIND, SNOW, UNBALANCED SNOW, LIVE AND DEAD LOADS BASED ON ASCE 7-10 CHAPTER 30 - WIND LOADS - COMPONENTS AND CLADDING (C&C) AND FOR CONFORMANCE WITH THE 2020 RESIDENTIAL CODE OF NEW YORK STATE. THIS CERTIFICATION DOES NOT APPLY TO ANY ADDITIONAL ROOF ALTERATIONS AFTER THE DESCRIBED INSTALLATION
 - THIS ROOF STRUCTURE AS SHOWN IS ADEQUATE TO SUPPORT THE PROPOSED LOADS
 - REFER TO STRUCTURAL LETTER FOR SITE SPECIFIC AND ROOF SURFACE DATA
 - ENERGY STORAGE SYSTEM INSTALLATION TO CONFORM WITH THE REQUIREMENTS OF THE 2020 RESIDENTIAL CODE OF NEW YORK STATE

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PROFESSIONAL SEAL



REV: DESCRIPTION: DATE:

PROJECT NAME:
Marco Buyson

PROJECT LOCATION:
26 Elm Ave, Floral Park, NY 11001

PROJECT#:

PROJ. PHASE: PERMIT

DATE: 7/28/2023

DESIGNED BY: ED

CHECKED BY: GS

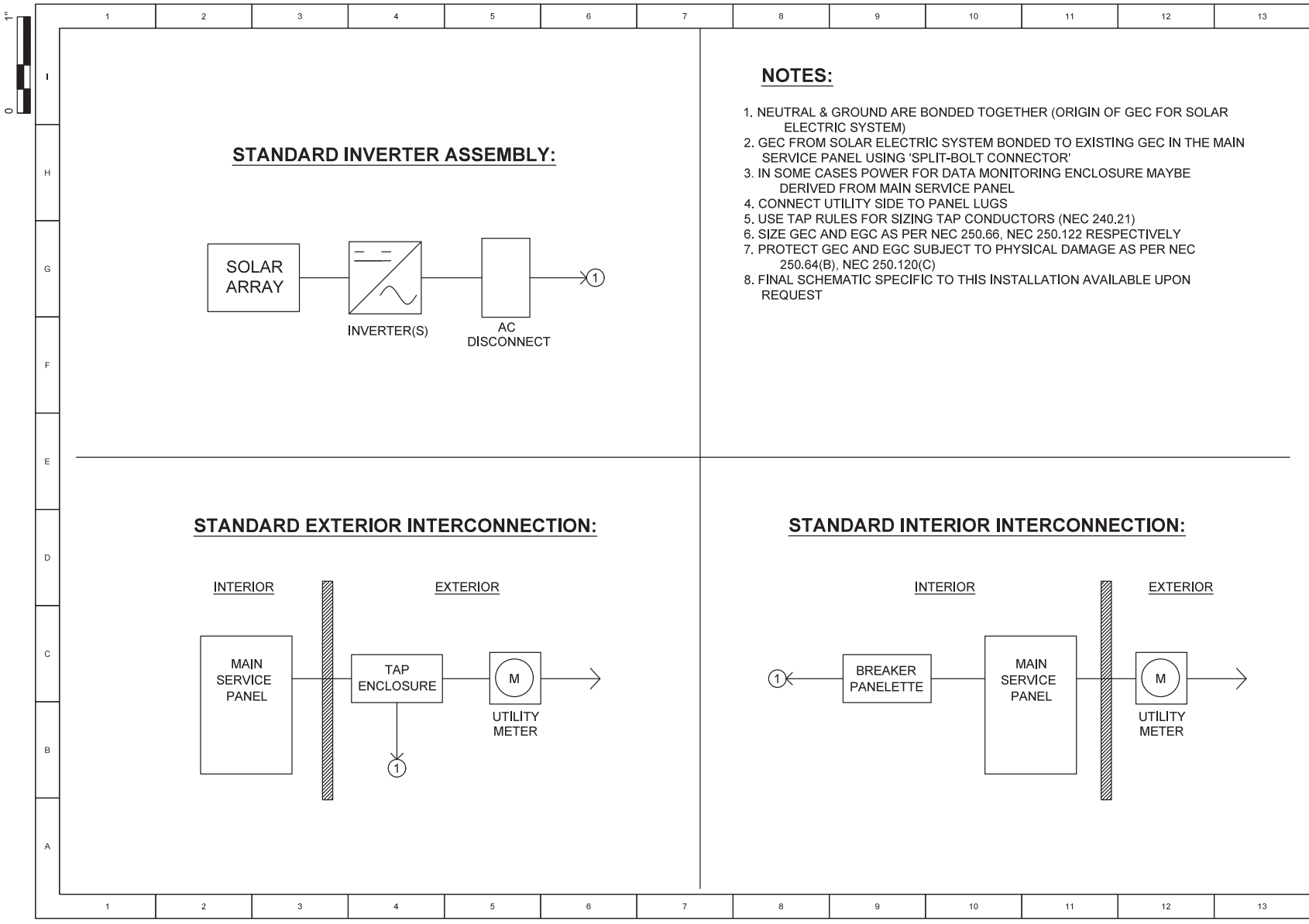
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TITLE:

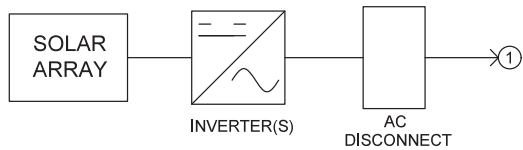
STRUCTURAL

SHEET:

S-02



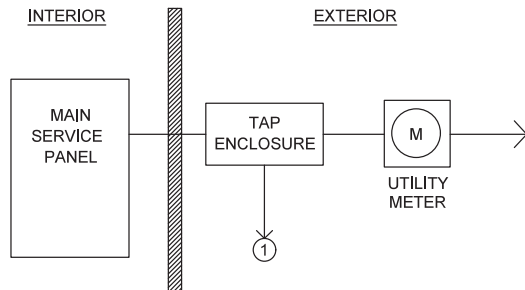
STANDARD INVERTER ASSEMBLY:



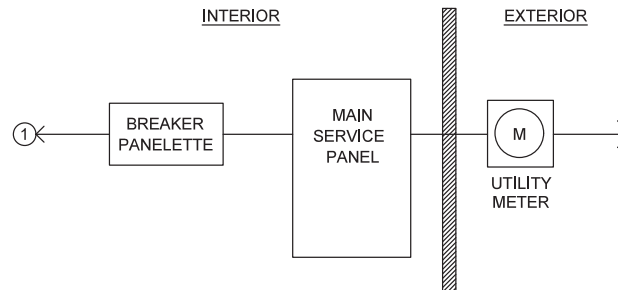
NOTES:

1. NEUTRAL & GROUND ARE BONDED TOGETHER (ORIGIN OF GEC FOR SOLAR ELECTRIC SYSTEM)
2. GEC FROM SOLAR ELECTRIC SYSTEM BONDED TO EXISTING GEC IN THE MAIN SERVICE PANEL USING 'SPLIT-BOLT CONNECTOR'
3. IN SOME CASES POWER FOR DATA MONITORING ENCLOSURE MAYBE DERIVED FROM MAIN SERVICE PANEL
4. CONNECT UTILITY SIDE TO PANEL LUGS
5. USE TAP RULES FOR SIZING TAP CONDUCTORS (NEC 240.21)
6. SIZE GEC AND EGC AS PER NEC 250.66, NEC 250.122 RESPECTIVELY
7. PROTECT GEC AND EGC SUBJECT TO PHYSICAL DAMAGE AS PER NEC 250.64(B), NEC 250.120(C)
8. FINAL SCHEMATIC SPECIFIC TO THIS INSTALLATION AVAILABLE UPON REQUEST

STANDARD EXTERIOR INTERCONNECTION:



STANDARD INTERIOR INTERCONNECTION:



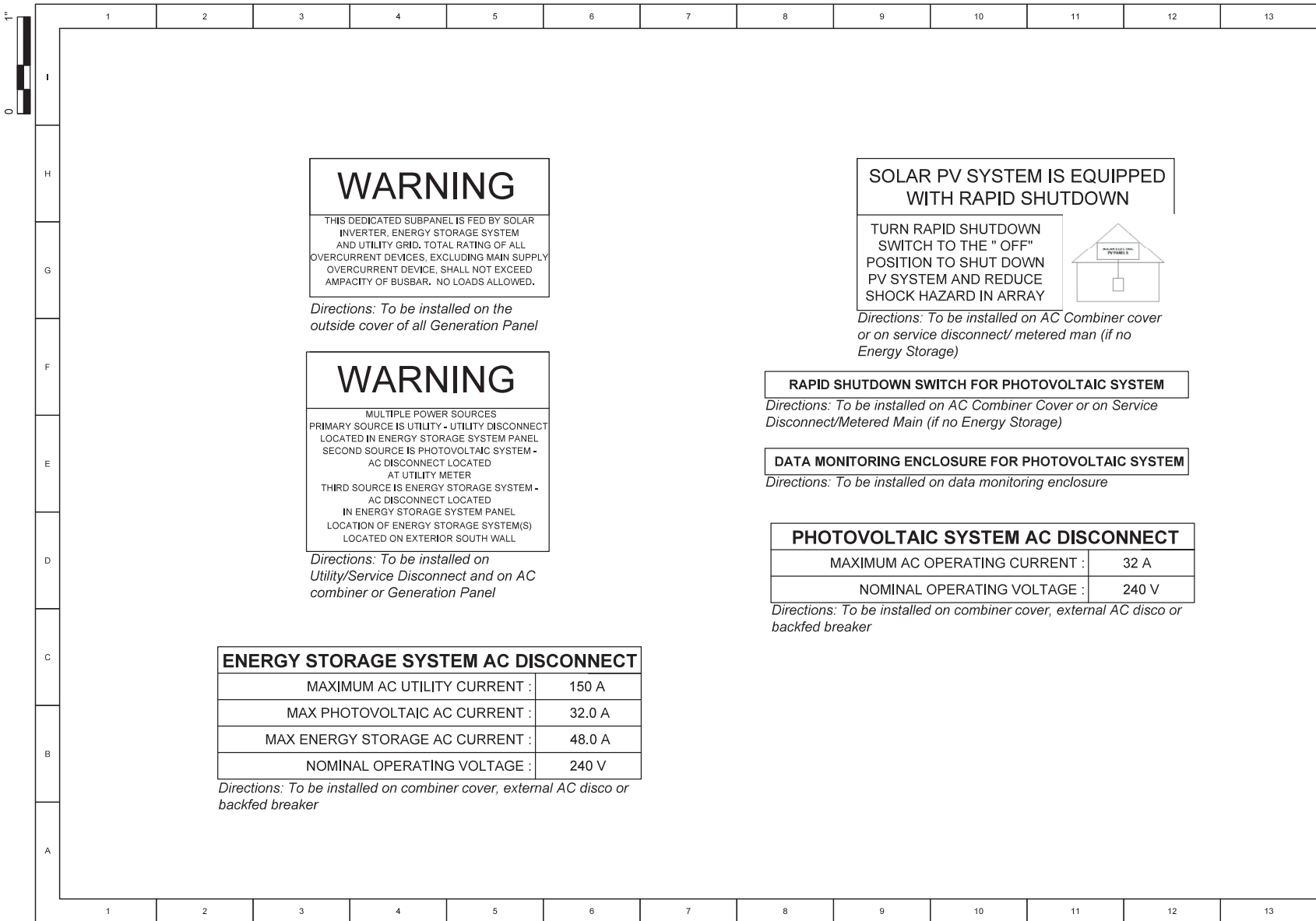
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PROFESSIONAL SEAL



D	REV:	DESCRIPTION:	DATE:
C	PROJECT NAME: Marco Buyson		
B	PROJECT LOCATION: 26 Elm Ave, Floral Park, NY 11001		
A	PROJECT#: _____		
	PROJ. PHASE:	PERMIT	
	DATE:	7/28/2023	
	DESIGNED BY:	ED	
	CHECKED BY:	GS	
	SCALE:	NTS	
	TITLE: ELECTRICAL		
	SHEET: SE-01		



WARNING

THIS DEDICATED SUBPANEL IS FED BY SOLAR INVERTER, ENERGY STORAGE SYSTEM AND UTILITY GRID. TOTAL RATING OF ALL OVERCURRENT DEVICES, EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE, SHALL NOT EXCEED AMPACITY OF BUSBAR. NO LOADS ALLOWED.

Directions: To be installed on the outside cover of all Generation Panel

WARNING

MULTIPLE POWER SOURCES
 PRIMARY SOURCE IS UTILITY - UTILITY DISCONNECT LOCATED IN ENERGY STORAGE SYSTEM PANEL
 SECOND SOURCE IS PHOTOVOLTAIC SYSTEM - AC DISCONNECT LOCATED AT UTILITY METER
 THIRD SOURCE IS ENERGY STORAGE SYSTEM - AC DISCONNECT LOCATED IN ENERGY STORAGE SYSTEM PANEL
 LOCATION OF ENERGY STORAGE SYSTEM(S) LOCATED ON EXTERIOR SOUTH WALL

Directions: To be installed on Utility/Service Disconnect and on AC combiner or Generation Panel

ENERGY STORAGE SYSTEM AC DISCONNECT	
MAXIMUM AC UTILITY CURRENT :	150 A
MAX PHOTOVOLTAIC AC CURRENT :	32.0 A
MAX ENERGY STORAGE AC CURRENT :	48.0 A
NOMINAL OPERATING VOLTAGE :	240 V

Directions: To be installed on combiner cover, external AC disco or backfed breaker

SOLAR PV SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN

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



Directions: To be installed on AC Combiner cover or on service disconnect/ metered man (if no Energy Storage)

RAPID SHUTDOWN SWITCH FOR PHOTOVOLTAIC SYSTEM

Directions: To be installed on AC Combiner Cover or on Service Disconnect/Metered Main (if no Energy Storage)

DATA MONITORING ENCLOSURE FOR PHOTOVOLTAIC SYSTEM

Directions: To be installed on data monitoring enclosure

PHOTOVOLTAIC SYSTEM AC DISCONNECT	
MAXIMUM AC OPERATING CURRENT :	32 A
NOMINAL OPERATING VOLTAGE :	240 V

Directions: To be installed on combiner cover, external AC disco or backfed breaker

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PROFESSIONAL SEAL



REV:	DESCRIPTION:	DATE:

PROJECT NAME:
 BUYSON RESIDENCE

PROJECT LOCATION:
 26 ELM AVENUE
 FLORAL PARK, NY 11001

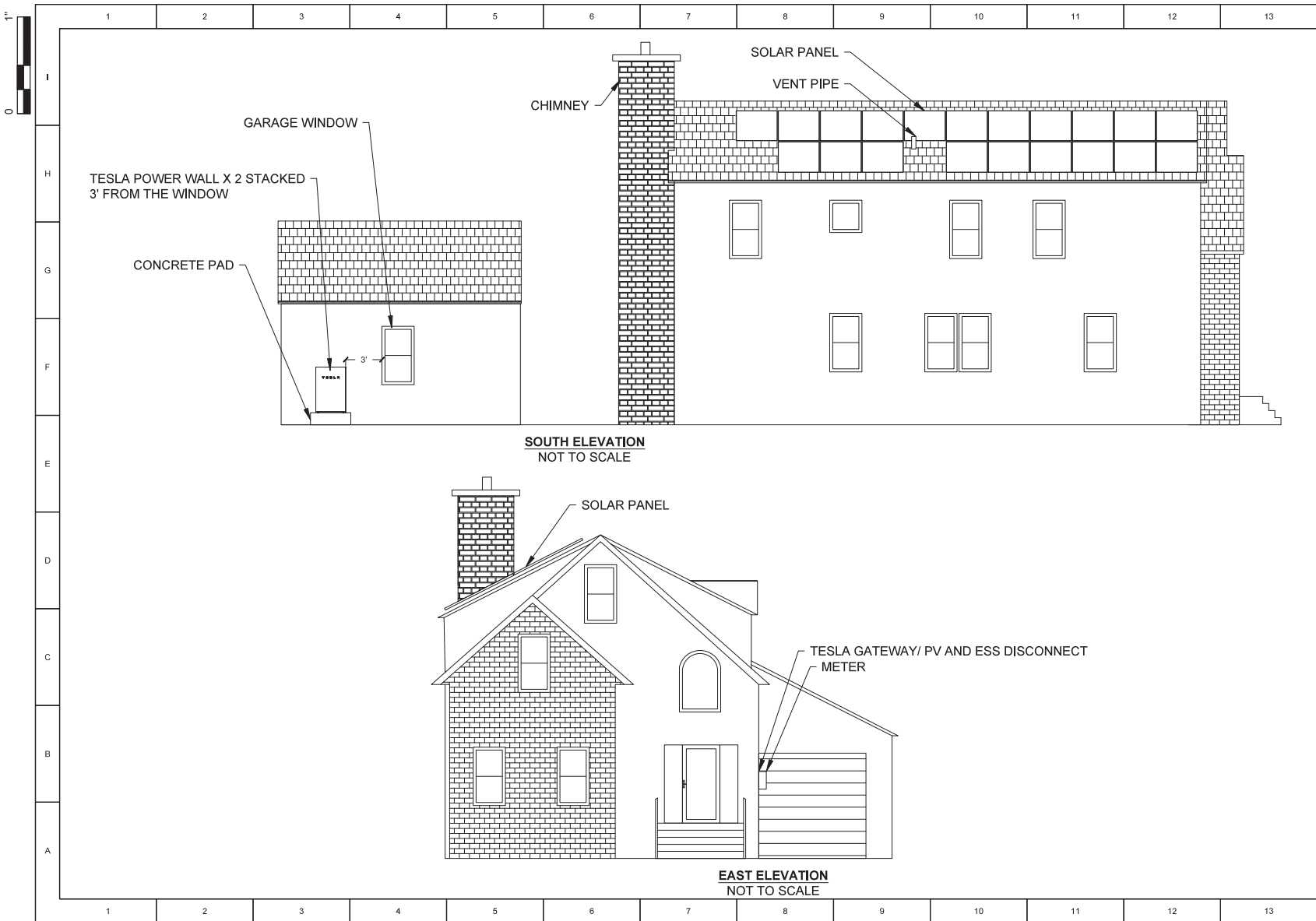
PROJECT#: _____
 PROJ. PHASE: PERMIT
 DATE: 07/28/2023

DESIGNED BY: IV
 CHECKED BY: GS
 SCALE: NTS

TITLE:
 ELECTRICAL SIGNAGE

SHEET:

SE-02



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PROFESSIONAL SEAL



REV:	DESCRIPTION:	DATE:

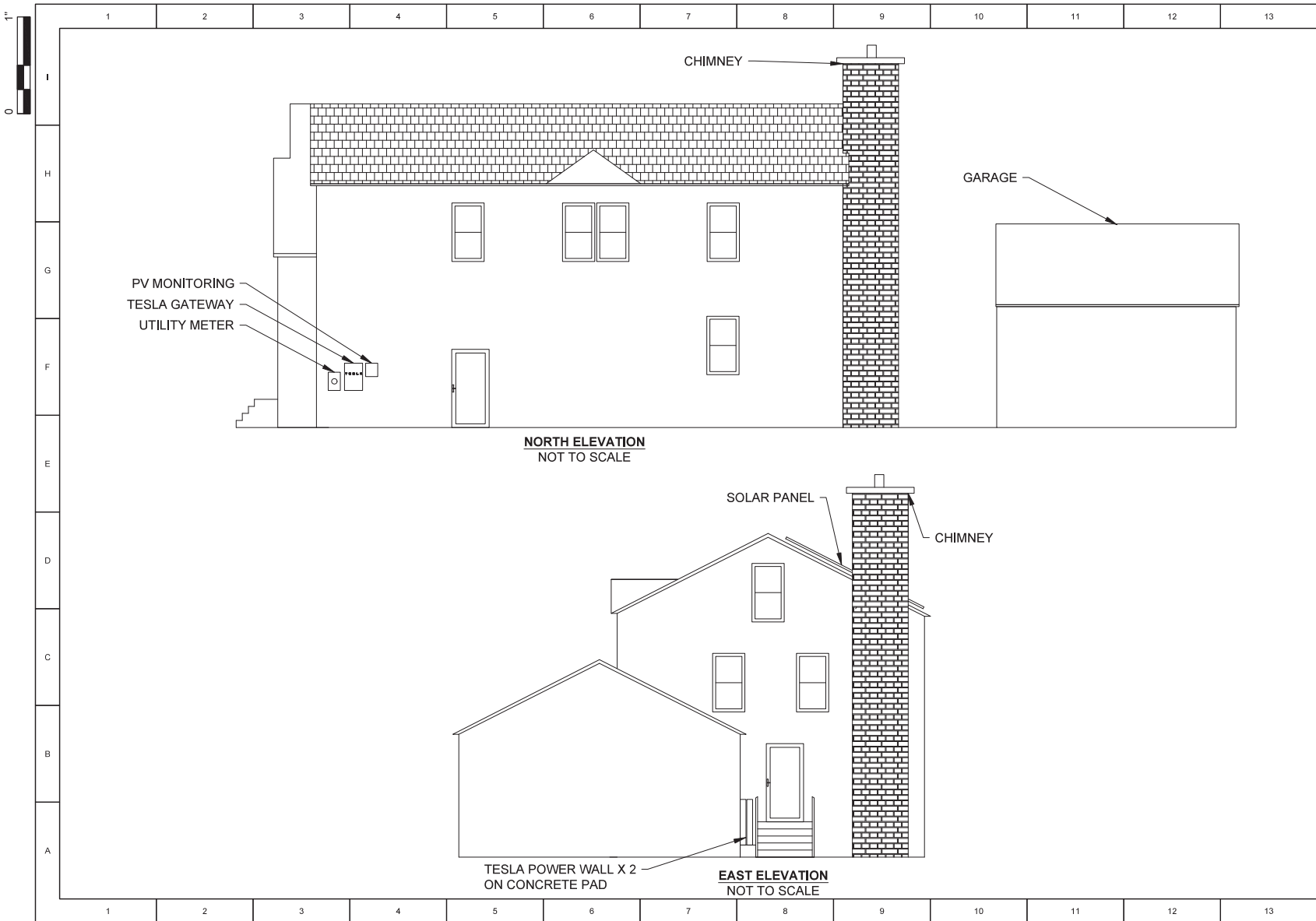
PROJECT NAME:
 BUYSON RESIDENCE

PROJECT LOCATION:
 26 ELM AVENUE
 FLORAL PARK, NY 11001

PROJECT#:
 PROJ. PHASE: PERMIT
 DATE: 07/28/2023
 DESIGNED BY: ED
 CHECKED BY: GS
 SCALE: NTS

TITLE:
 ELEVATIONS

SHEET:
S-05



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PROFESSIONAL SEAL



REV:	DESCRIPTION:	DATE:

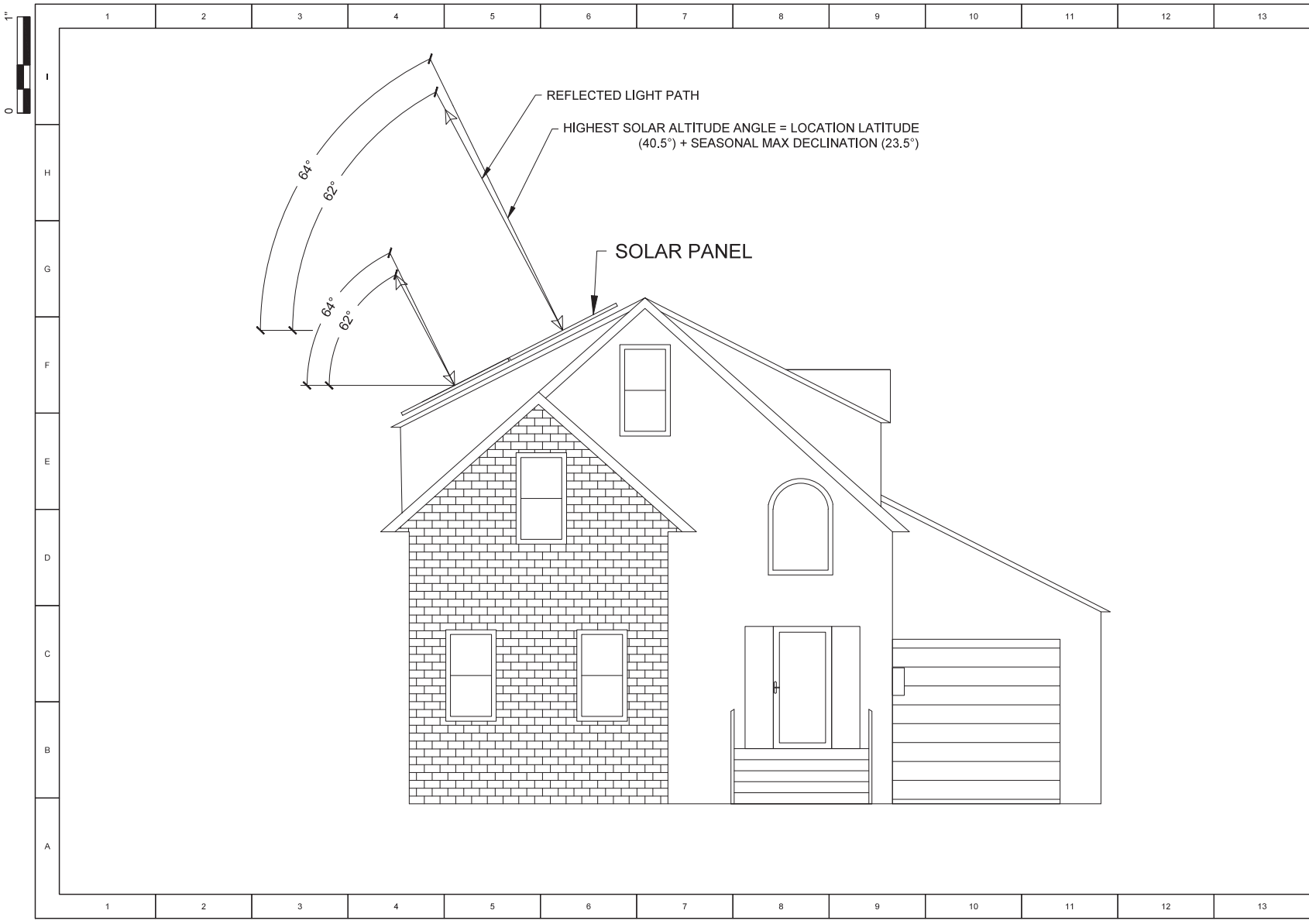
PROJECT NAME:
 BUYSON RESIDENCE

PROJECT LOCATION:
 26 ELM AVENUE
 FLORAL PARK, NY 11001

PROJECT#: _____
 PROJ. PHASE: PERMIT
 DATE: 07/28/2023
 DESIGNED BY: ED
 CHECKED BY: GS
 SCALE: NTS

TITLE:
 ELEVATIONS

SHEET:
 S-06



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PROFESSIONAL SEAL



REV:	DESCRIPTION:	DATE:

PROJECT NAME:
 BUYSON RESIDENCE

PROJECT LOCATION:
 26 ELM AVENUE
 FLORAL PARK, NY 11001

PROJECT#: _____
 PROJ. PHASE: PERMIT
 DATE: 07/28/2023
 DESIGNED BY: ED
 CHECKED BY: GS
 SCALE: NTS

TITLE:
 GLARE ANALYSIS

SHEET:
S-04

ARKA SERIES

WSMDi-395 to WSMDi-415

WAAREE®

One with the Sun



Highest reliability & enhanced crack tolerant 9BB module



Better performance under all climatic conditions



Split junction box



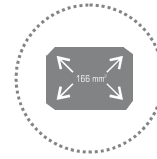
Reduced power losses up to 1/4 times



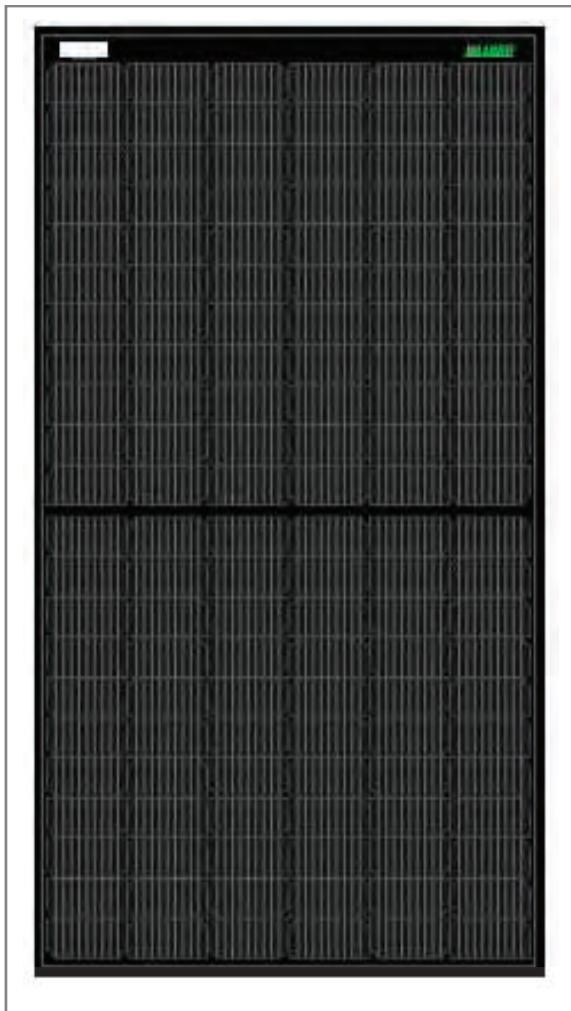
PID resistant with long term reliability



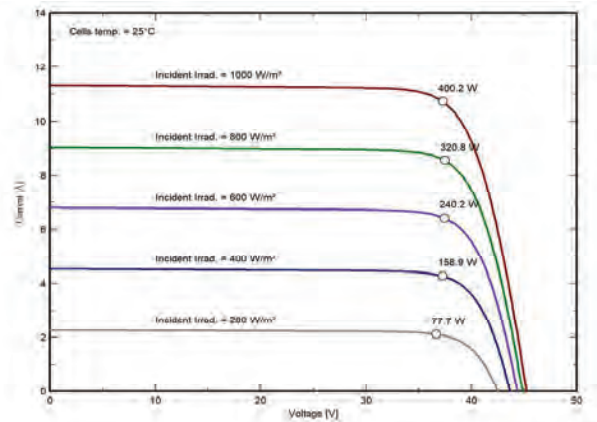
Sustain heavy wind & snow loads (2400 pa & 5400 pa)



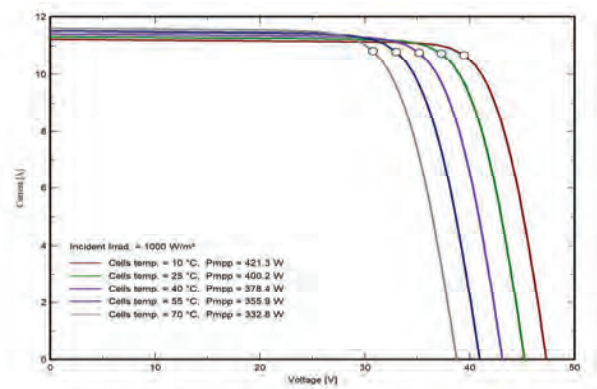
M6 Mono PERC cells



I-V VARIATION WITH IRRADIANCE



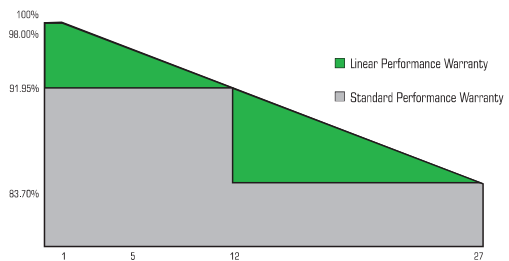
I-V VARIATION WITH TEMPERATURE



The Graphs are for reference purpose only. Please consult Waaree technical team for further clarifications.

INTERNATIONAL & NATIONAL CERTIFICATIONS ^

IEC 61215 | IEC 61730 | UL61730
IEC TS 62804-1

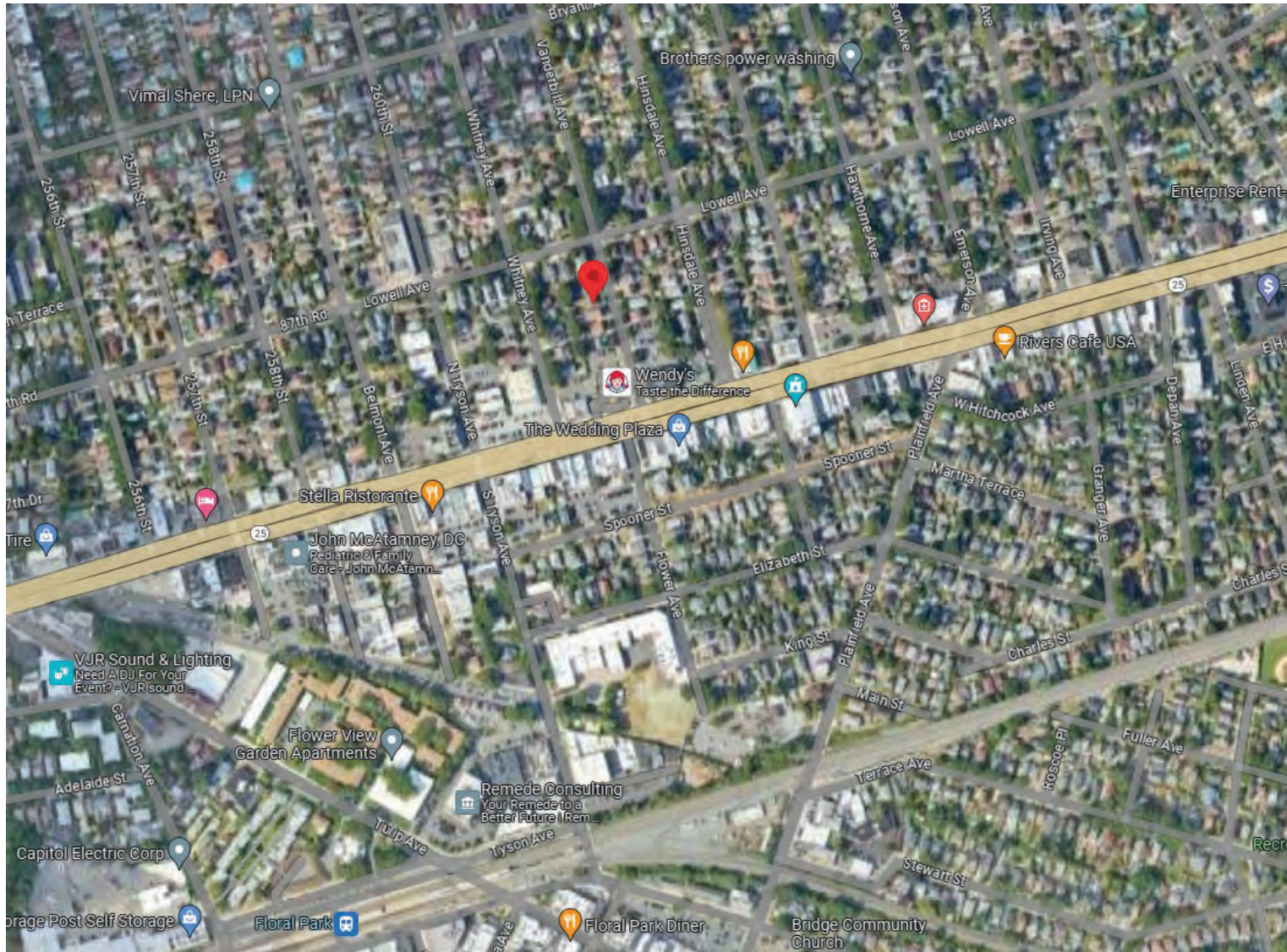


ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018
Independent assessment of factories by BLACK & VEATCH

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
3	8:10 p.m.	28	Vanderbilt Avenue	Solar	Dane Mccarthy	Momentum Solar



28 Vanderbilt Avenue (Aerial View)



PLAN KEY	
PV-1	COVER PAGE
PV-1(2)	COVER PAGE CONT.
PV-2	PANEL LAYOUT
PV-2(2)	PLOT PLAN
PV-3	ELECTRICAL
PV-4	EQUIPMENT LABELS
PV-5	ELEVATION
PV-6	ELEVATION
PV-7	ELEVATION
PV-8	SUPERIMPOSED PHOTOS
PV-9	SUPERIMPOSED PHOTOS
PV-10	SUPERIMPOSED PANELS

SYSTEM INFORMATION	
MODULE	HANWHA Q.PEAK DUO BLK ML-G10+ 400
INVERTER	ENPHASE IQ8PLUS-72-2-US
RACKING	ROOFTECH RT-MINI W/UNIRAC 2-RAIL SYSTEM
SYSTEM SIZE (DC)	4.4 KW
LOCATION	40.7297765,-73.7037664

GENERAL NOTES:

THIS PV SYSTEM HAS BEEN DESIGNED TO MEET THE MINIMUM DESIGN STANDARDS FOR BUILDING AND OTHER STRUCTURES OF THE ASCE 7-16, 2020 NYS BUILDING CODE AND 2020 NYS RESIDENTIAL CODE, NEC 2017 AND ALL LOCAL CODES & ORDINANCES.

AN 18" WIDE (FREE OF SOLAR EQUIPMENT) SHALL BE PROVIDED ON BOTH SIDES OF THE ROOF. NOT FEWER THAN TWO PATHWAYS, ON SEPARATE ROOF PLANES FROM LOWEST ROOF EDGE TO RIDGE AND NOT LESS THAN 36 INCHES (914 MM) WIDE, SHALL BE PROVIDED ON ALL BUILDINGS. NOT FEWER THAN ONE PATHWAY SHALL BE PROVIDED ON THE STREET OR DRIVEWAY SIDE OF THE ROOF. FOR EACH ROOF PLANE WITH A PHOTOVOLTAIC ARRAY, A PATHWAY NOT LESS THAN 36 INCHES WIDE (914 MM) SHALL BE PROVIDED FROM THE LOWEST ROOF EDGE TO RIDGE ON THE SAME ROOF PLANE AS THE PHOTOVOLTAIC ARRAY, ON AN ADJACENT ROOF PLANE, OR STRADDLING THE SAME AND ADJACENT ROOF PLANES.

ROOF SHALL HAVE NO MORE THAN TWO LAYERS OF COVERING IN ADDITION TO THE SOLAR EQUIPMENT.

INSTALLATION OF SOLAR EQUIPMENT SHALL BE FLUSH MOUNTED, PARALLEL TO AND NO MORE THAN 6-INCHES ABOVE THE SURFACE OF THE ROOF.

WEIGHT OF THE INSTALLED SYSTEM SHALL NOT EXCEED MORE THAN 5-PSF FOR PHOTOVOLTAIC AND NO MORE THAN 6-PSF FOR RESIDENTIAL SOLAR HOT WATER SYSTEMS.

ANY PLUMBING VENTS ARE NOT TO BE CUT OR COVERED FOR SOLAR EQUIPMENT INSTALLATION. ANY RELOCATION OR MODIFICATION OF THE VENT REQUIRES A PLUMBING PERMIT AND INSPECTION.

INVERTER PLACEMENT:

SYSTEM UTILIZES "ENPHASE" MICRO-INVERTERS WITH RAPID SHUTDOWN CONTROL LOCATED ON THE BACK SIDE OF EACH MODULE.

BUILDING REVIEW NOTE:

TOWN BUILDING PLANS EXAMINER HAS RECEIVED THE ENCLOSED DOCUMENT FOR MINIMUM ACCEPTABLE PLAN SUBMITTAL REQUIREMENTS OF THE TOWN AS SPECIFIED IN THE BUILDING AND/OR RESIDENTIAL CODE OF THE STATE OF NEW YORK. THIS REVIEW DOES NOT GUARANTEE COMPLIANCE OF THAT CODE. THAT RESPONSIBILITY IS GUARANTEED UNDER THE SEAL AND SIGNATURE OF THE NEW YORK LICENSED DESIGN PROFESSIONAL OF RECORD. THAT SEAL AND SIGNATURE HAS BEEN INTERPRETED AS AN ATTESTATION THAT, TO THE BEST OF THE LICENSEE'S BELIEF AND INFORMATION, THE WORK IN DOCUMENT IS:

1. ACCURATE
2. CONFORMS WITH GOVERNING CODES APPLICABLE AT THE TIME OF THE SUBMISSION.
3. CONFORMS WITH REASONABLE STANDARDS OF PRACTICE AND WITH VIEW TO THE SAFEGUARDING OF LIFE, HEALTH, PROPERTY AND PUBLIC WELFARE IS THE RESPONSIBILITY OF THE LICENSEE.

THE RESPONSIBLE LICENSED DESIGN PROFESSIONAL SHALL PROVIDE A SIGNED AND SEALED LETTER CERTIFYING THE INSTALLATION WAS INSPECTED AND CONFORMS TO THE PLANS AND REQUIREMENTS OF THE 2020 NYS BUILDING CODE AND 2020 NYS RESIDENTIAL CODE. THIS INSPECTION AND CERTIFICATION LETTER SHALL BE PERFORMED AFTER INSTALLATIONS ARE COMPLETED AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO SCHEDULING OF FINAL INSPECTION.

THE UL CERTIFICATE OF ELECTRICAL INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO SCHEDULING OF FINAL INSPECTION.

BILL OF MATERIALS	
NON SH MODULES	11
SH MODULES	0
INVERTERS	11
L-FOOT ATTACHMENT W/ RT-MINI	27
ENPHASE COMBINER BOX	1
SOLAR AC DISCONNECT	1
20A OCPD	1
125A LINE TAPS	2
171" RAIL	6



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
(732) 902-6224, MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
3096 HAMILTON BLVD SOUTH PLAINFIELD, NJ 07060
ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS & ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE COMPLIANCE. WARNING THAT IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL, TO ALTER AN ITEM IN ANY WAY.

CUSTOMER INFORMATION

DANE MCCARTHY - MS132639
28 VANDERBILT AVENUE
FLORAL PARK, NY 11001
(808) 753-6380

JURISTDICTION: NASSAU
UTILITY: PSEGI
UTILITY ACCT #:
UTILITY METER #: 98479979

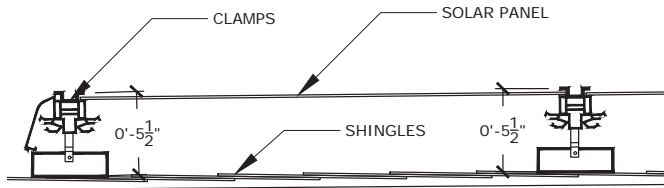
PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 4.4 KW
SYSTEM SIZE (AC): 3.19 KVA
11 MODULES: HANWHA Q.PEAK DUO BLK ML-G10+ 400
(SAFE HARBOR MODULES: 0)
11 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION		
INITIAL	DATE: 8/8/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

COVER PAGE
PV-1

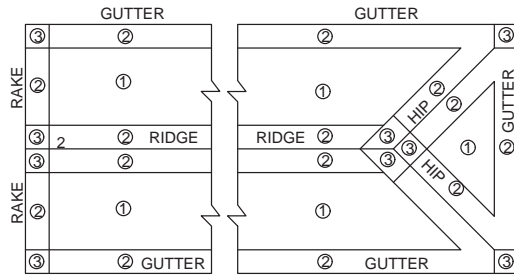
1. ALL WIND DESIGN CRITERIA ARE FOR LOW SLOPE ROOFS, GABLE AND HIP ROOFS CONSIDERED FROM AN ANGLE OF MIN. 9.5 ° TO MAX. 60° NOT TO EXCEED 30' MEAN ROOF HEIGHT ATTACHED WITH FASTENERS AS SPECIFIED BY THE MANUFACTURER.
2. SPAN TABLES ARE DERIVED FROM MECHANICAL LOAD TESTS PERFORMED BY THE MANUFACTURERS INDEPENDENT TESTING AGENCIES ON BEHALF OF THE MANUFACTURER.
3. ROOF SEALANTS SHALL CONFORM TO ASTM C920 AND ASTM 6511
4. ALL ATTACHMENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.



CROSS SECTION OF ROOF SHOWING ATTACHMENT DETAILS

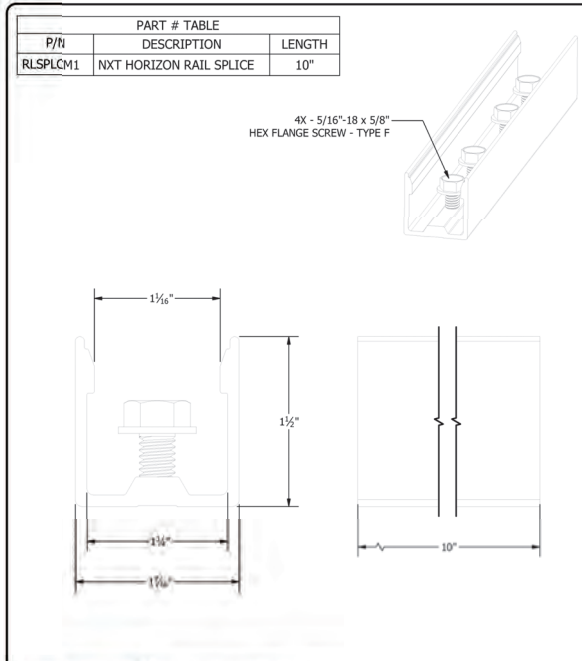
SCALE: 1-1/2" = 1"

ATTACHMENT SPACING EXCEED MANUFACTURERS SPECIFICATIONS FOR WIND LOADS AS PER ASCE 07-16. RISK CATEGORY II TOPOGRAPHIC EFFECTS B, C, & D AND ROOF WIND ZONES 1, 2, & 3. ROOF ZONES 2 & 3 ARE WITHIN 48" OF ANY OUTER EDGE, HIP, RIDGE, OR GUTTER LINE FOR STRUCTURES 30'-0" OR LESS MEAN ROOF HEIGHT.



ROOF WIND ZONES AS PER IRC R301.2(7)
 ROOF ZONES 2 & 3 ARE 48" FROM OUTER ROOF EDGES,
 RIDGES, HIPs, RAKES, AND GUTTER EDGES FOR STRUCTURES
 BELOW 30'-0" MEAN ROOF HT.

TOTAL WEIGHT OF PV MODULES AND RAILS	460.35 LBS
TOTAL NUMBER OF ATTACHMENT POINTS	34
WEIGHT PER ATTACHMENT POINT	13.539705882352 9 LBS
TOTAL SURFACE AREA OF PV MODULES	199.54 SQFT
DISTRIBUTED WEIGHT OF PV MODULE ON ROOF	2.31 LBS./SQFT



 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM	PRODUCT LINE: NXT HORIZON	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL	NH-PO2 SHEET
	DRAWING TYPE: PART DETAIL		
	DESCRIPTION: RAIL SPLICE		
	REVISION DATE: 9/22/2021		

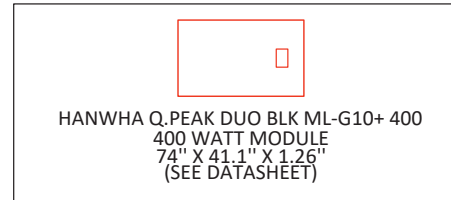
**CLIMATIC & GEOGRAPHIC DESIGN CRITERIA
 TABLE R301.2(1)**

GROUND SNOW LOAD(LBS/SF)	25
SPEED (MPH)	120
TOPOGRAPHIC EFFECTS	B
SPECIAL WIND REGION	NO
WIND BORNE DEBRIS ZONE	2
SEISMIC DESIGN CATEGORY	B
CLIMATE ZONE	4A
WIND EXPOSURE CATEGORY	B

STRUCTURAL STATEMENT:

THE EXISTING STRUCTURE IS ADEQUATE TO SUPPORT THE NEW LOADS IMPOSED BY THE PHOTOVOLTAIC MODULE SYSTEM INCLUDING UPLIFT & SHEAR. EXISTING RAFTER SIZES & DIMENSIONS CONFIRM TO 2020 NYS BUILDING CODE AND RESIDENTIAL CODE TABLE R802.5(1)-JOIST SPANS.

MOUNTING BRACKETS AND HARDWARE MEET OR EXCEED NEW YORK STATE CODE REQUIREMENTS FOR THE DESIGN CRITERIA OF THE TOWN.



RT-MINI II
 A Self-flashing PV Mount Featuring Roof Tech's AlphaSeal™ Technology

RT-MINI II
 Flexible Flashing Certified by the International Code Council (ICC)

Components
 RT-MINI II MOUNTING KIT

Dimensions in (mm)

Options:
 • Custom Aluminum System (9000-00-0000) - 1000mm Rail
 • 1/2" x 1/8" Flat Head Screws (No. 9-18 x 1.25) - 1000mm Rail
 • RT Sealant (RT-MINI II) - 1000mm Rail

Deck Installation **Rafter Installation** **Offset Rafter Installation**

Other Rafter Attachment Options

Roof Tech Inc.
 10620 Trenna Street, Suite 230, San Diego, CA 92131
 619.442.5000

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PROFESSIONAL ENGINEERING

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DANE MCCARTHY - MS132639
 28 VANDERBILT AVENUE
 FLORAL PARK, NY 11001
 (808) 753-6380

JURISTDICTION: NASSAU
 UTILITY: PSE&I
 UTILITY ACCT #: _____
 UTILITY METER #: 984799979

PV SYSTEM INFORMATION

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 SYSTEM SIZE (AC): 3.19 KVA
 11 MODULES: HANWHA Q.PEAK DUO BLK ML-G10+ 400
 (SAFE HARBOR MODULES: 0)
 11 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE: 8/8/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

**ATTACHMENT DETAIL
 PV-1(2)**

SCALE: 1/8" = 1'-0"



ROOF	MODULE COUNT	TILT	AZIMUTH	SHADING	LANDSCAPE MAX SPAN (ROOF AREA 1/2/3)	PORTRAIT MAX SPAN (ROOF AREA 1/2/3)
R1	11	33°	255°	83%	48 /32 /32	48 /32 /32



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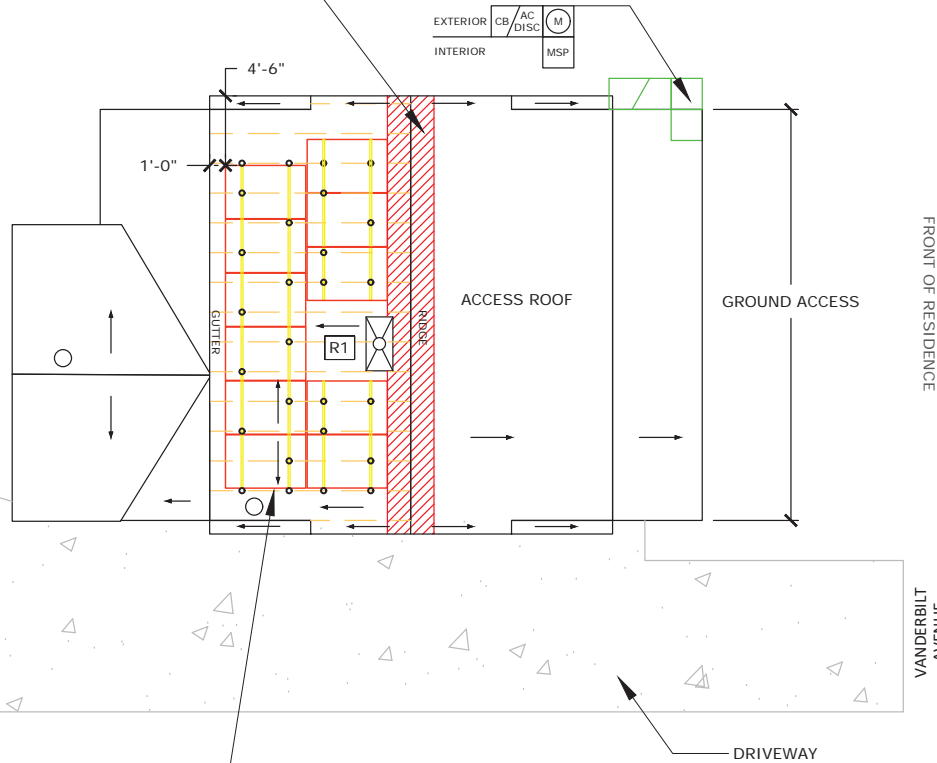
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REV:	DATE:	DESIGNER:

PANEL LAYOUT

PV-2

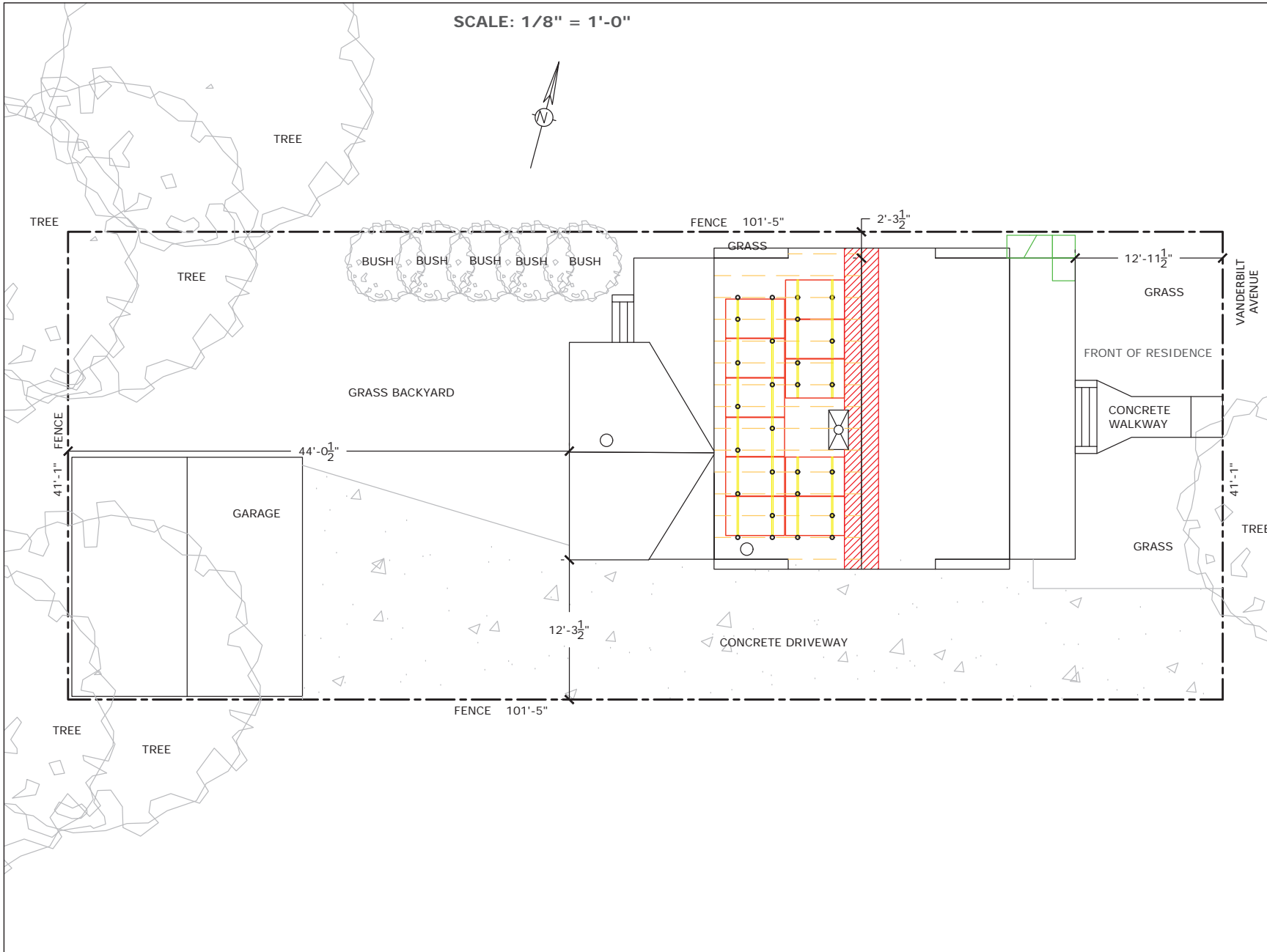
FIRE SETBACK
(18" VENTILATION)



ROOF MATERIAL: ASPHALT SHINGLES
EXISTING ROOF STRUCTURE: 2"x6" @24" O.C

SYMBOL LEGEND			
MSP	MAIN SERVICE PANEL		CHIMNEY
SP	SUB-PANEL		SKYLIGHT
M	UTILITY METER		VENT
CB/AC DISC	COMBINER BOX/AC DISCONNECT		PIPE VENT
UDC	UTILITY DISCONNECT		FAN
LC	LOAD CENTER		SATELLITE DISH
N3R	NEMA 3R BOX W/ ENVOY-S		FIRE SETBACKS
CB	COMBINER BOX		GROUND ACCESS
PF	PERFORMANCE METER		PITCH DIRECTION
	MODULE		

SCALE: 1/8" = 1'-0"



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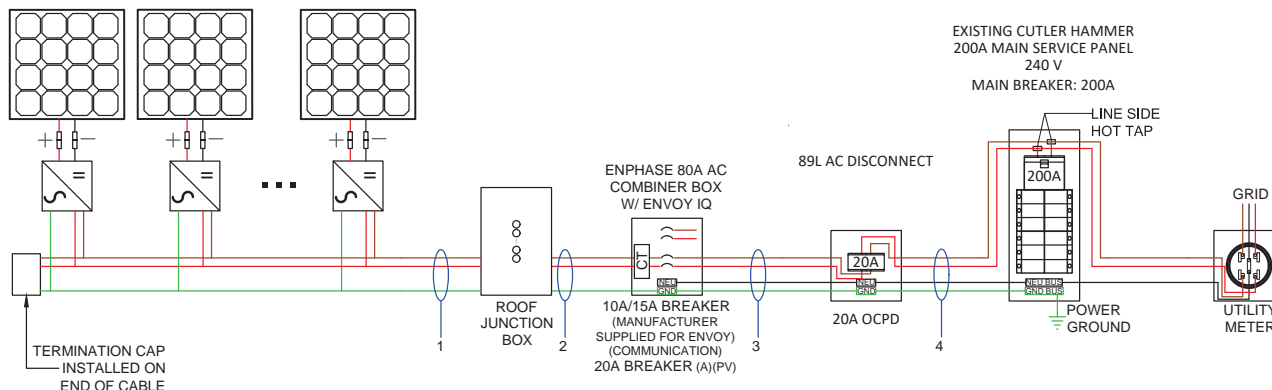
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REV:	DATE:	DESIGNER:

PLOT PLAN
PV-2(2)

11 HANWHA Q.PEAK DUO BLK ML-G10+ 400 400W MODULES PAIRED WITH
11 ENPHASE IQ8PLUS-72-2-US MICRO-INVERTERS

BRANCH CIRCUIT A
11 MICRO-INVERTERS



ELECTRICAL NOTES:

1. ALL CALCULATIONS FOR VOC, VMAX, IMP AND ISC HAVE BEEN CALCULATED USING THE MANUFACTURED STRING CALCULATOR BASED ON ASHRAE 2% HIGH AND EXTREME MINIMUM TEMPERATURE COEFFICIENTS.
2. THE ENTIRE ARRAY IS BONDED ACCORDING TO (NEC 690.46 - 250.120 PARAGRAPH C).
3. BRANCH CIRCUIT CALCULATION FOR WIRE TAG 1 DISPLAYS THE LARGEST BRANCH CIRCUIT IN SYSTEM. OTHER BRANCH CIRCUITS WILL HAVE LOWER DESIGN CURRENT THAN THE ONE SHOWN.
4. THIS SYSTEM COMPLIES WITH NEC 2017 89L LESS THAN 10FT TO THE MAIN BREAKER/METER.

5. ALL CONDUCTORS ARE SIZED BASED ON NEC 2017 ARTICLE 310
6. ALL EQUIPMENT INSTALLED IS RATED AT 75°C UNLESS NOTED
7. INVERTER NOC (NOMINAL OPEN CURRENT) OBTAINED FROM EQUIPMENT DATA SHEET
8. GROUNDING CONDUCTOR RUN WITH PHASE CONDUCTOR IN THE SAME CONDUIT.
9. SYSTEM IS CONSIDERED AN AC MODULE SYSTEM. NO DC CONDUCTORS ARE PRESENT IN CONDUIT, COMBINER, JUNCTION BOX, DISCONNECT. AND COMPILES WITH 690.6- NO DC. DISCONNECT AND ASSOCIATED DC CABLING ARE REQUIRED.

10. SYSTEM COMPLIES WITH 690.12 RAPID SHUTDOWN AND ASSOCIATED LABELING AS PER 690.56(C)(3). AC VOLTAGE AND SYSTEM OPERATING CURRENT SHALL BE PROVIDED AS PER 690.52.
11. CONDUCTORS IN CONDUIT ARE AC CONDUCTORS - BRANCH CIRCUITS AND NOT PV SOURCE CIRCUITS 690.6.
12. ALL GROUNDING SHALL COMPLY WITH 690.47(A) IN THAT THE AC MODULES SHALL COMPLY WITH 250.64.
13. NO TERMINALS WILL BE ENERGIZED IN THE OPEN POSITION IN THIS AC MODULE SYSTEM 690.6, 690.17.
14. WHERE APPLICABLE, INTERCONNECTION SHALL COMPLY WITH 705.12(A) OR 705.12(B) AS PERMITTED BY 230.82(6)

Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type	Temp. Rating	Wire Ampacity (A)	Temp. Derate	Conduit Fill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type
1	OPEN AIR	2	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	11	1.21	1.25	16.64	12 AWG	Trunk Cable
2	3/4" PVC	2	10 AWG	THWN-2	90°C	40	0.96	1	38.40	11	1.21	1.25	16.64	08 AWG	THWN-2
3	3/4" PVC	3	10 AWG	THWN-2	75°C	35	0.96	1	33.60	11	1.21	1.25	16.64	08 AWG	THWN-2
4	3/4" PVC	3	06 AWG	THWN-2	75°C	65	0.96	1	62.40	11	1.21	1.25	16.64	08 AWG	THWN-2



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ELECTRICIAN

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JEFFREY MARINELLO, (732) 902-6224
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CUSTOMER INFORMATION

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(808) 753-6380

JURISDICTION: NASSAU
UTILITY: PSE&I
UTILITY ACCT #:
UTILITY METER #: 98479979

PV SYSTEM INFORMATION







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(SAFE HARBOR MODULES: 0)
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PROJECT INFORMATION

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REV:	DATE:	DESIGNER:

ELECTRICAL

PV-3

TAG	LABEL	QUANTITY	LOCATION	NOTE	EXAMPLES
(A)		12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'	
(B)		1	COMBINER BOX	1 AT ANY COMBINER BOX	
(C)		1	JUNCTION BOX	1 AT ANY JUNCTION BOX	
(D)		1	AC DISCONNECT	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL	 
(E)		1	PV METER SOCKET	1 AT PV METER SOCKET AND ONE DIRECTORY PLACARD	
(F)		1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD	
(G)		1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT AND ONE DIRECTORY PLACARD	
(H)		1	AC CURRENT PV MODULES		



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EQUIPMENT LABELS

PV-4



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PROJECT INFORMATION

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ELEVATION

PV-5



FRONT ELEVATION
 3/16" = 1'-0"



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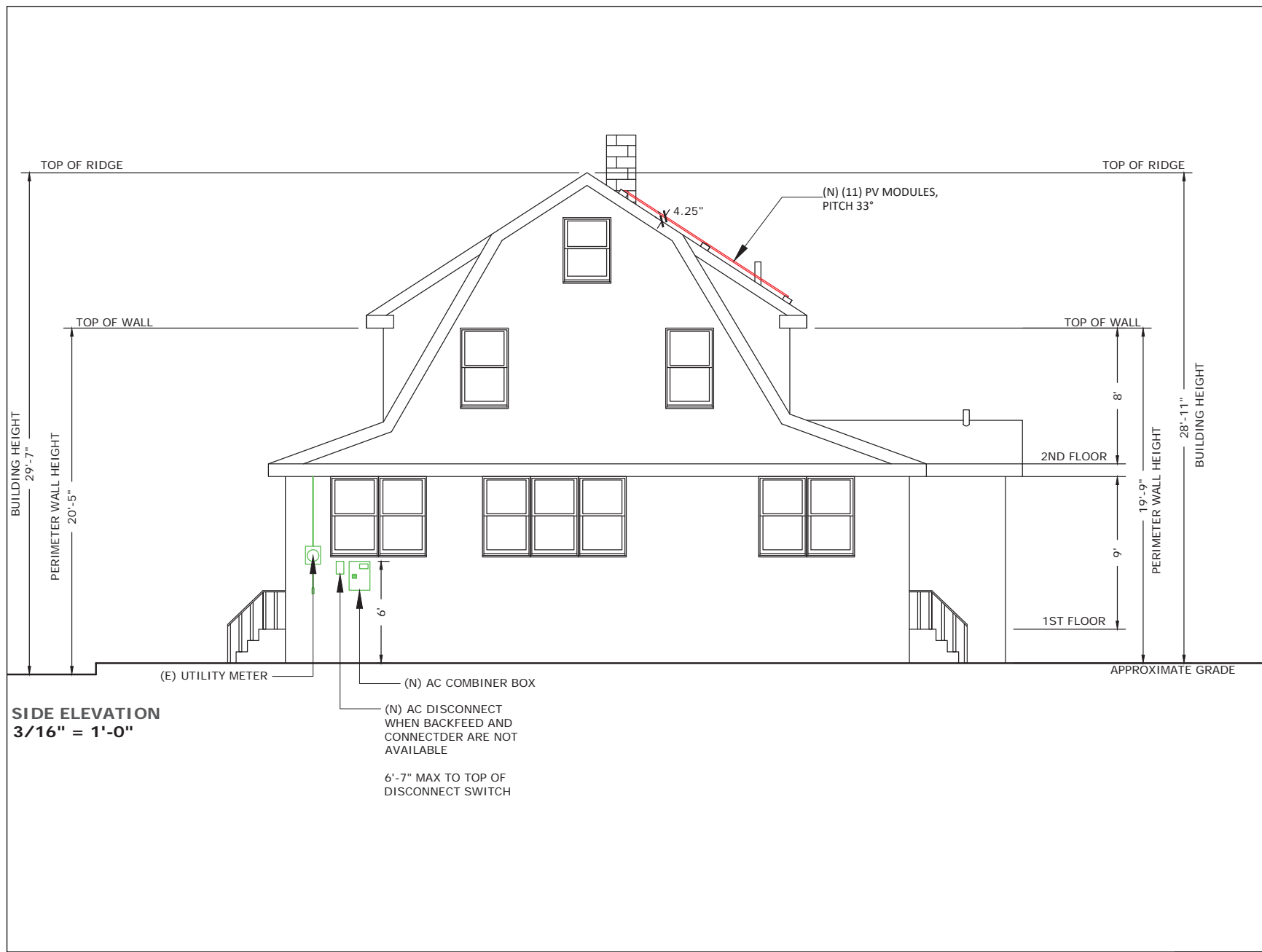
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ELEVATION

PV-6



SIDE ELEVATION
 3/16" = 1'-0"



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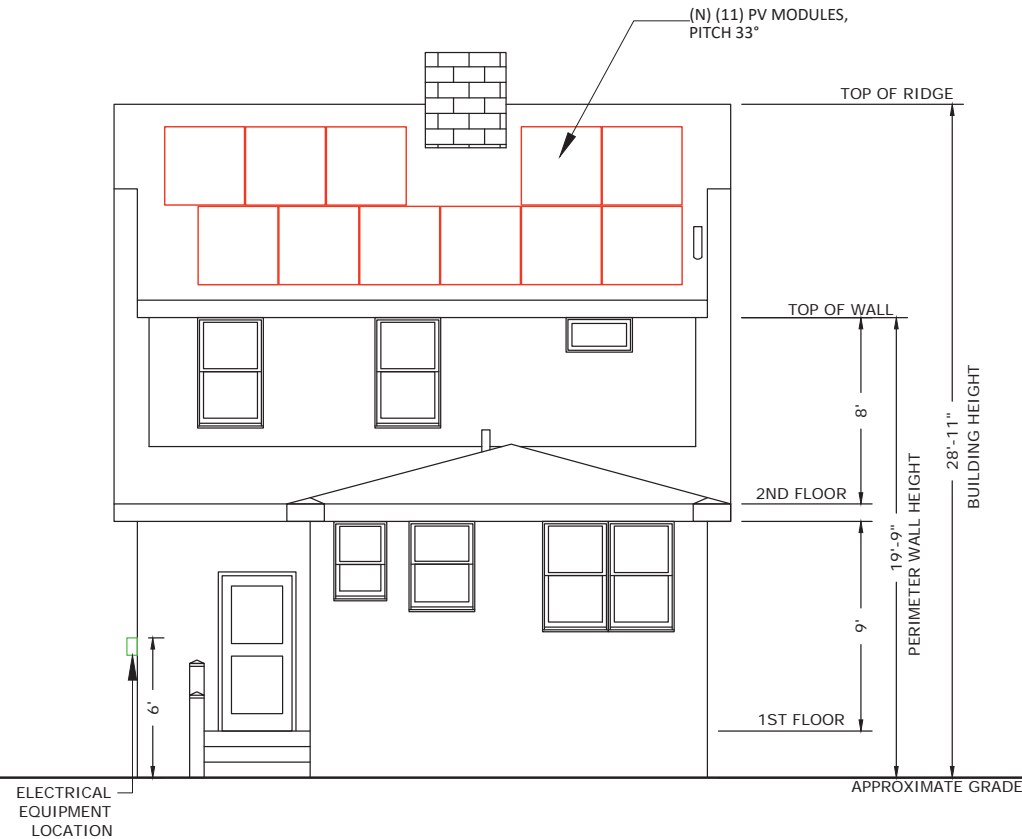
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ELEVATION

PV-7



REAR ELEVATION
SCALE: 3/16" = 1'-0"



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PROJECT INFORMATION

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SUPERIMPOSED PHOTOS

PV-8



FRONT OF HOUSE

PANELS ARE NOT VISIBLE FROM FRONT OF HOUSE



REAR VIEW



SOUTHEAST VIEW



NORTHWEST VIEW



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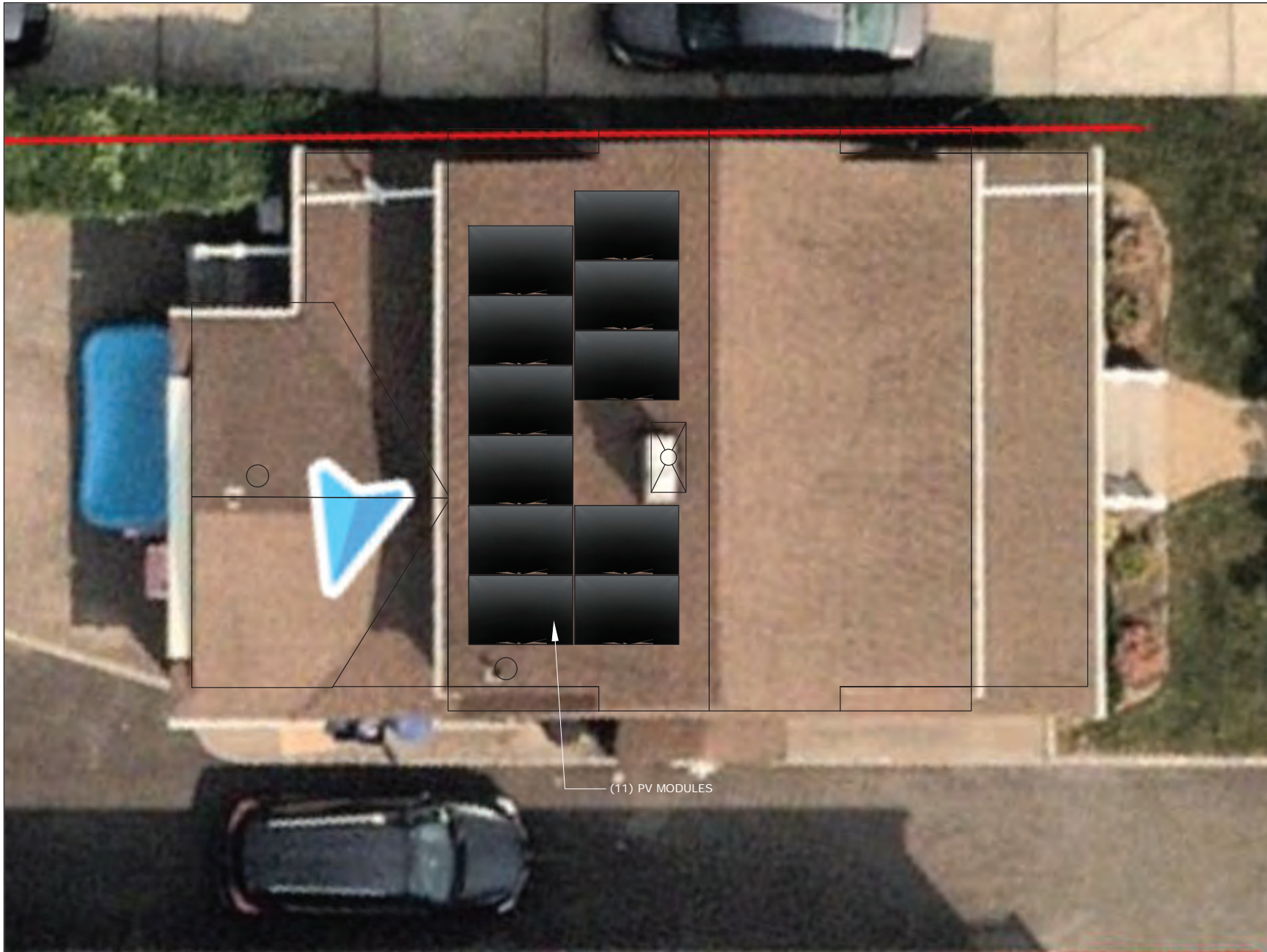
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SUPERIMPOSED PHOTOS

PV-9



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SUPERIMPOSED PANELS

PV-10

powered by

Q.ANTUM DUO Z

Q.PEAK DUO BLK ML-G10+ 385-405

ENDURING HIGH
PERFORMANCE



BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.



THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY

Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400Pa) and wind loads (4000Pa).



A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty².

¹ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96h)

² See data sheet on rear for further information.



THE IDEAL SOLUTION FOR:



Rooftop arrays on
residential buildings

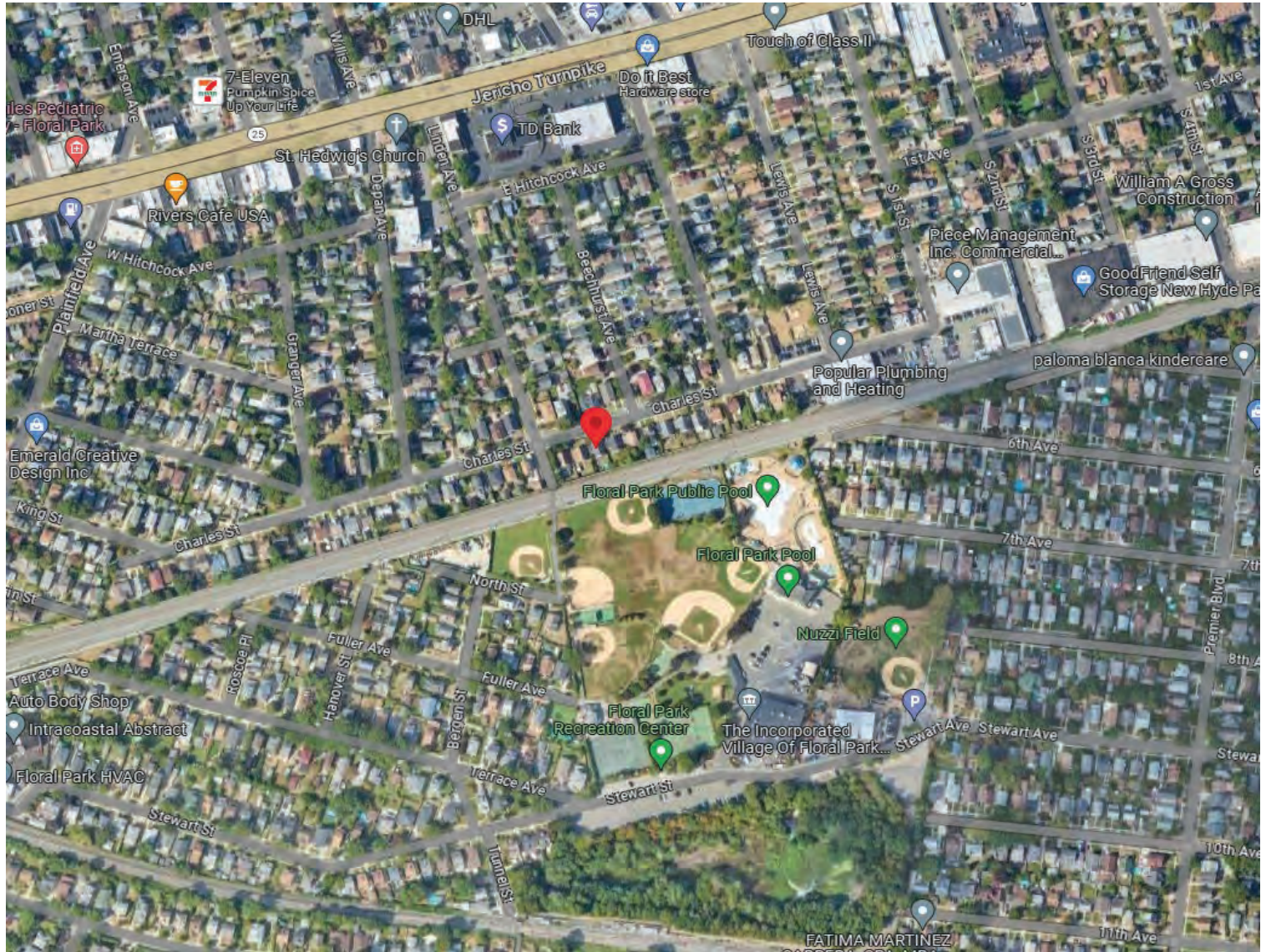
Engineered in Germany

Q CELLS

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
4	8:15 p.m.	106	Charles Street	Solar	Priyasharan Sharma	Momentum Solar



106 Charles Street (Aerial View)



PLAN KEY	
PV-1	COVER PAGE
PV-1(2)	ATTACHMENT DETAIL
PV-2	PANEL LAYOUT
PV-2(2)	PLOT PLAN
PV-3	ELECTRICAL
PV-4	EQUIPMENT LABELS
PV-5	ELEVATION
PV-6	ELEVATION
PV-7	ELEVATION
PV-8	SUPERIMPOSED PHOTOS
PV-9	SUPERIMPOSED PHOTOS
PV-10	SUPERIMPOSED PANELS

SYSTEM INFORMATION	
MODULE	HANWHA Q.PEAK DUO BLK ML-G10+ 400
INVERTER	ENPHASE IQ8PLUS-72-2-US
RACKING	ROOFTECH RT-MINI W/UNIRAC 2-RAIL SYSTEM
SYSTEM SIZE (DC)	7.2 KW
LOCATION	40.7275559,-73.6955523

GENERAL NOTES:

THIS PV SYSTEM HAS BEEN DESIGNED TO MEET THE MINIMUM DESIGN STANDARDS FOR BUILDING AND OTHER STRUCTURES OF THE ASCE 7-16, 2020 NYS BUILDING CODE AND 2020 NYS RESIDENTIAL CODE, NEC 2017 AND ALL LOCAL CODES & ORDINANCES.

AN 18" WIDE (FREE OF SOLAR EQUIPMENT) SHALL BE PROVIDED ON BOTH SIDES OF THE ROOF. NOT FEWER THAN TWO PATHWAYS, ON SEPARATE ROOF PLANES FROM LOWEST ROOF EDGE TO RIDGE AND NOT LESS THAN 36 INCHES (914 MM) WIDE, SHALL BE PROVIDED ON ALL BUILDINGS. NOT FEWER THAN ONE PATHWAY SHALL BE PROVIDED ON THE STREET OR DRIVEWAY SIDE OF THE ROOF. FOR EACH ROOF PLANE WITH A PHOTOVOLTAIC ARRAY, A PATHWAY NOT LESS THAN 36 INCHES WIDE (914 MM) SHALL BE PROVIDED FROM THE LOWEST ROOF EDGE TO RIDGE ON THE SAME ROOF PLANE AS THE PHOTOVOLTAIC ARRAY, ON AN ADJACENT ROOF PLANE, OR STRADDLING THE SAME AND ADJACENT ROOF PLANES.

ROOF SHALL HAVE NO MORE THAN TWO LAYERS OF COVERING IN ADDITION TO THE SOLAR EQUIPMENT.

INSTALLATION OF SOLAR EQUIPMENT SHALL BE FLUSH MOUNTED, PARALLEL TO AND NO MORE THAN 6-INCHES ABOVE THE SURFACE OF THE ROOF.

WEIGHT OF THE INSTALLED SYSTEM SHALL NOT EXCEED MORE THAN 5-PSF FOR PHOTOVOLTAIC AND NO MORE THAN 6-PSF FOR RESIDENTIAL SOLAR HOT WATER SYSTEMS.

ANY PLUMBING VENTS ARE NOT TO BE CUT OR COVERED FOR SOLAR EQUIPMENT INSTALLATION. ANY RELOCATION OR MODIFICATION OF THE VENT REQUIRES A PLUMBING PERMIT AND INSPECTION.

INVERTER PLACEMENT:

SYSTEM UTILIZES "ENPHASE" MICRO-INVERTERS WITH RAPID SHUTDOWN CONTROL LOCATED ON THE BACK SIDE OF EACH MODULE.

BUILDING REVIEW NOTE:

TOWN BUILDING PLANS EXAMINER HAS RECEIVED THE ENCLOSED DOCUMENT FOR MINIMUM ACCEPTABLE PLAN SUBMITTAL REQUIREMENTS OF THE TOWN AS SPECIFIED IN THE BUILDING AND/OR RESIDENTIAL CODE OF THE STATE OF NEW YORK. THIS REVIEW DOES NOT GUARANTEE COMPLIANCE OF THAT CODE. THAT RESPONSIBILITY IS GUARANTEED UNDER THE SEAL AND SIGNATURE OF THE NEW YORK LICENSED DESIGN PROFESSIONAL OF RECORD. THAT SEAL AND SIGNATURE HAS BEEN INTERPRETED AS AN ATTESTATION THAT, TO THE BEST OF THE LICENSEE'S BELIEF AND INFORMATION, THE WORK IN DOCUMENT IS:

1. ACCURATE
2. CONFORMS WITH GOVERNING CODES APPLICABLE AT THE TIME OF THE SUBMISSION.
3. CONFORMS WITH REASONABLE STANDARDS OF PRACTICE AND WITH VIEW TO THE SAFEGUARDING OF LIFE, HEALTH, PROPERTY AND PUBLIC WELFARE IS THE RESPONSIBILITY OF THE LICENSEE.

THE RESPONSIBLE LICENSED DESIGN PROFESSIONAL SHALL PROVIDE A SIGNED AND SEALED LETTER CERTIFYING THE INSTALLATION WAS INSPECTED AND CONFORMS TO THE PLANS AND REQUIREMENTS OF THE 2020 NYS BUILDING CODE AND 2020 NYS RESIDENTIAL CODE. THIS INSPECTION AND CERTIFICATION LETTER SHALL BE PERFORMED AFTER INSTALLATIONS ARE COMPLETED AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO SCHEDULING OF FINAL INSPECTION.

THE UL CERTIFICATE OF ELECTRICAL INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO SCHEDULING OF FINAL INSPECTION.

BILL OF MATERIALS	
NON SH MODULES	18
SH MODULES	0
INVERTERS	18
L-FOOT ATTACHMENT W/ RT-MINI	52
ENPHASE COMBINER BOX	1
SOLAR AC DISCONNECT	1
30A OCPD	1
125A LINE TAPS	2
171" RAIL	9



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
(732) 902-6224, MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



MINA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
3096 HAMILTON BLVD SOUTH PLAINFIELD, NJ 07060
ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS & ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE COMPLIANCE. WARNING THAT IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL, TO ALTER AN ITEM IN ANY WAY.

CUSTOMER INFORMATION

PRİYASHARAN SHARMA - MS131456
106 CHARLES ST
FLORAL PARK, NY 11001
5168209158

JURISDICTION: NASSAU
UTILITY: PSE&I
UTILITY ACCT #:
UTILITY METER #:

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SYSTEM SIZE (AC): 5.22 KVA
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(SAFE HARBOR MODULES: 0)
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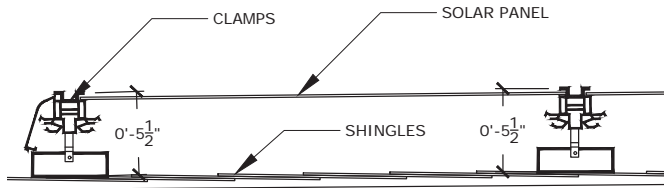
PROJECT INFORMATION

INITIAL	DATE: 8/10/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
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COVER PAGE

PV-1

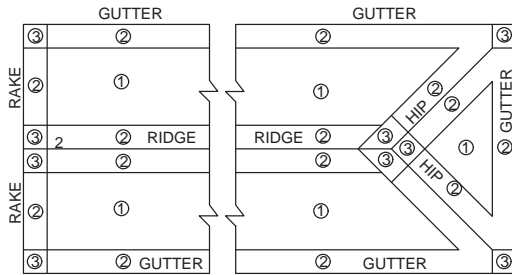
1. ALL WIND DESIGN CRITERIA ARE FOR LOW SLOPE ROOFS, GABLE AND HIP ROOFS CONSIDERED FROM AN ANGLE OF MIN. 9.5 ° TO MAX. 60° NOT TO EXCEED 30' MEAN ROOF HEIGHT ATTACHED WITH FASTENERS AS SPECIFIED BY THE MANUFACTURER.
2. SPAN TABLES ARE DERIVED FROM MECHANICAL LOAD TESTS PERFORMED BY THE MANUFACTURERS INDEPENDENT TESTING AGENCIES ON BEHALF OF THE MANUFACTURER.
3. ROOF SEALANTS SHALL CONFORM TO ASTM C920 AND ASTM 6511
4. ALL ATTACHMENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.



CROSS SECTION OF ROOF SHOWING ATTACHMENT DETAILS

SCALE: 1-1/2" = 1"

ATTACHMENT SPACING EXCEED MANUFACTURERS SPECIFICATIONS FOR WIND LOADS AS PER ASCE 07-16. RISK CATEGORY II TOPOGRAPHIC EFFECTS B, C, & D AND ROOF WIND ZONES 1, 2, & 3. ROOF ZONES 2 & 3 ARE WITHIN 48" OF ANY OUTER EDGE, HIP, RIDGE, OR GUTTER LINE FOR STRUCTURES 30'-0" OR LESS MEAN ROOF HEIGHT.



ROOF WIND ZONES AS PER IRC R301.2(7)
 ROOF ZONES 2 & 3 ARE 48" FROM OUTER ROOF EDGES,
 RIDGES, HIPs, RAKES, AND GUTTER EDGES FOR STRUCTURES
 BELOW 30'-0" MEAN ROOF HT.

TOTAL WEIGHT OF PV MODULES AND RAILS	753.3 LBS
TOTAL NUMBER OF ATTACHMENT POINTS	56
WEIGHT PER ATTACHMENT POINT	13.4517857142857
	7 LBS
TOTAL SURFACE AREA OF PV MODULES	326.52 SQFT
DISTRIBUTED WEIGHT OF PV MODULE ON ROOF	2.31 LBS./SQFT

PART # TABLE		
P/N	DESCRIPTION	LENGTH
RLSPLCM1	NXT HORIZON RAIL SPLICE	10"

UNIRAC
 1411 BROADWAY BLVD. NE
 ALBUQUERQUE, NM 87102 USA
 PHONE: 505.242.6411
 WWW.UNIRAC.COM

PRODUCT LINE: NXT HORIZON
 DRAWING TYPE: PART DETAIL
 DESCRIPTION: RAIL SPLICE
 REVISION DATE: 9/22/2021

DRAWING NOT TO SCALE
 ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY
 ONE OR MORE US PATENTS

LEGAL NOTICE

NH-PO2
 SHEET

RT-MINI II

A Self-flashing PV Mount Featuring Roof Tech's AlphaSeal™ Technology

Loss Aluminum
 More Efficient Design
 Additional Mounting Options
 Min. EPDM, TPO, & Asphalt Roofs

RT-MINI II is suitable for all systems with a conventional L-Flash.
 1/4" x 1" Coverage Bolt - EMT Accessory
 RT Serrated Hex Flange Bolt/Nut: 5/16-18 x 1"

ICC ESR 3575
 Installation Manual

Roof Tech Inc.
 Flexible Flashing Certified by the International Code Council (ICC)

RT-MINI II
 Flexible Flashing Certified by the International Code Council (ICC)

Components
 RT-1100-00000000

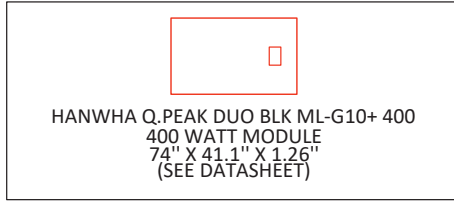
Dimensions in (mm)

Deck Installation, Rafter Installation, Offset Rafter Installation, Offset Rafter Attachment Options, Metal Flashing Rebuild, Flexible Flashing

Roof Tech Inc.
 10627 Trenna Street, Suite 230, San Diego, CA 92131
 619.442.5068

STRUCTURAL STATEMENT:
 THE EXISTING STRUCTURE IS ADEQUATE TO SUPPORT THE NEW LOADS IMPOSED BY THE PHOTOVOLTAIC MODULE SYSTEM INCLUDING UPLIFT & SHEAR. EXISTING RAFTER SIZES & DIMENSIONS CONFIRM TO 2020 NYS BUILDING CODE AND RESIDENTIAL CODE TABLE R802.5(1)-JOIST SPANS.

MOUNTING BRACKETS AND HARDWARE MEET OR EXCEED NEW YORK STATE CODE REQUIREMENTS FOR THE DESIGN CRITERIA OF THE TOWN.



momentum SOLAR

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 106 CHARLES ST
 FLORAL PARK, NY 11001
 5168209158

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ATTACHMENT DETAIL

PV-1(2)

SCALE: 1/8" = 1'-0"

ROOF	MODULE COUNT	TILT	AZIMUTH	SHADING	LANDSCAPE MAX SPAN (ROOF AREA 1/2/3)	PORTRAIT MAX SPAN (ROOF AREA 1/2/3)
R1	18	44°	253°	89%	48 /32 /32	48 /32 /32



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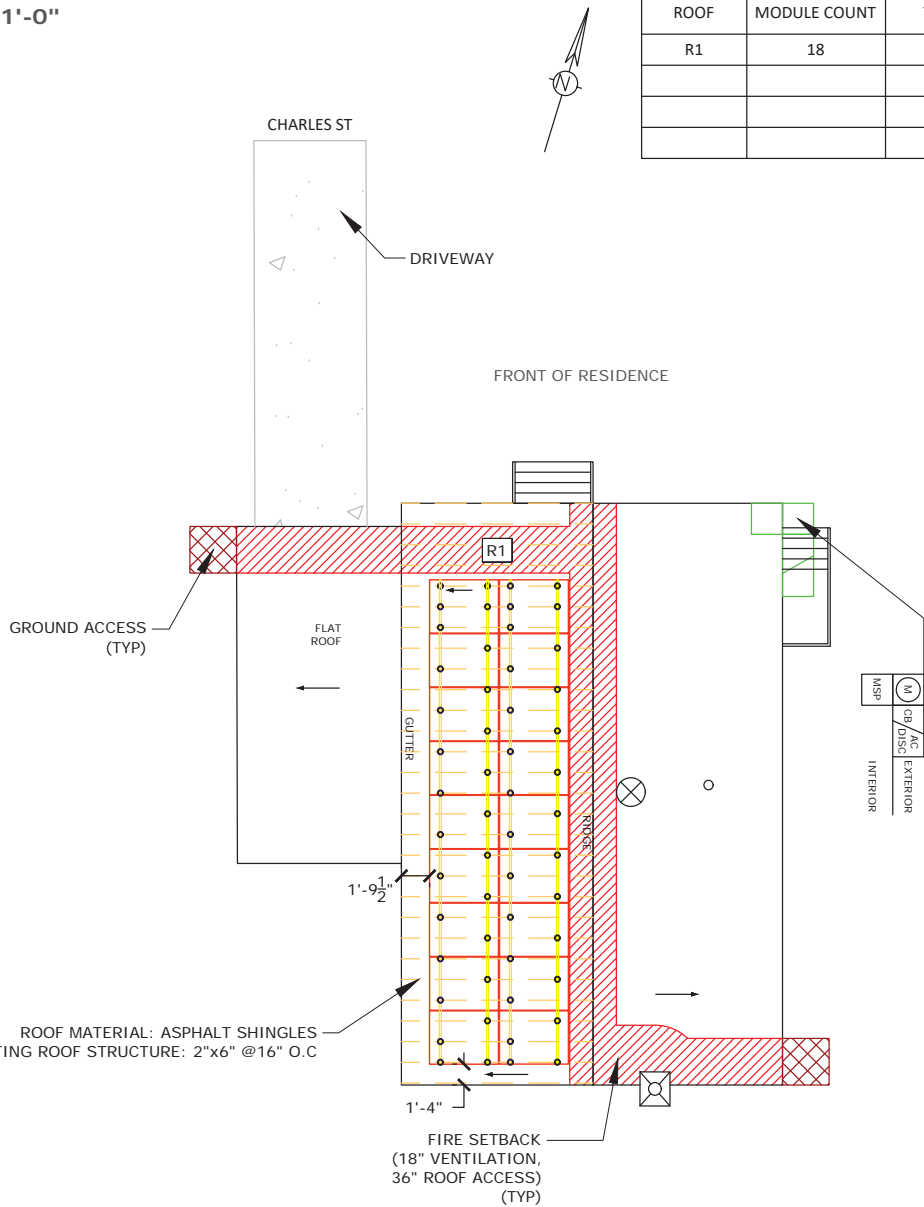
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PANEL LAYOUT

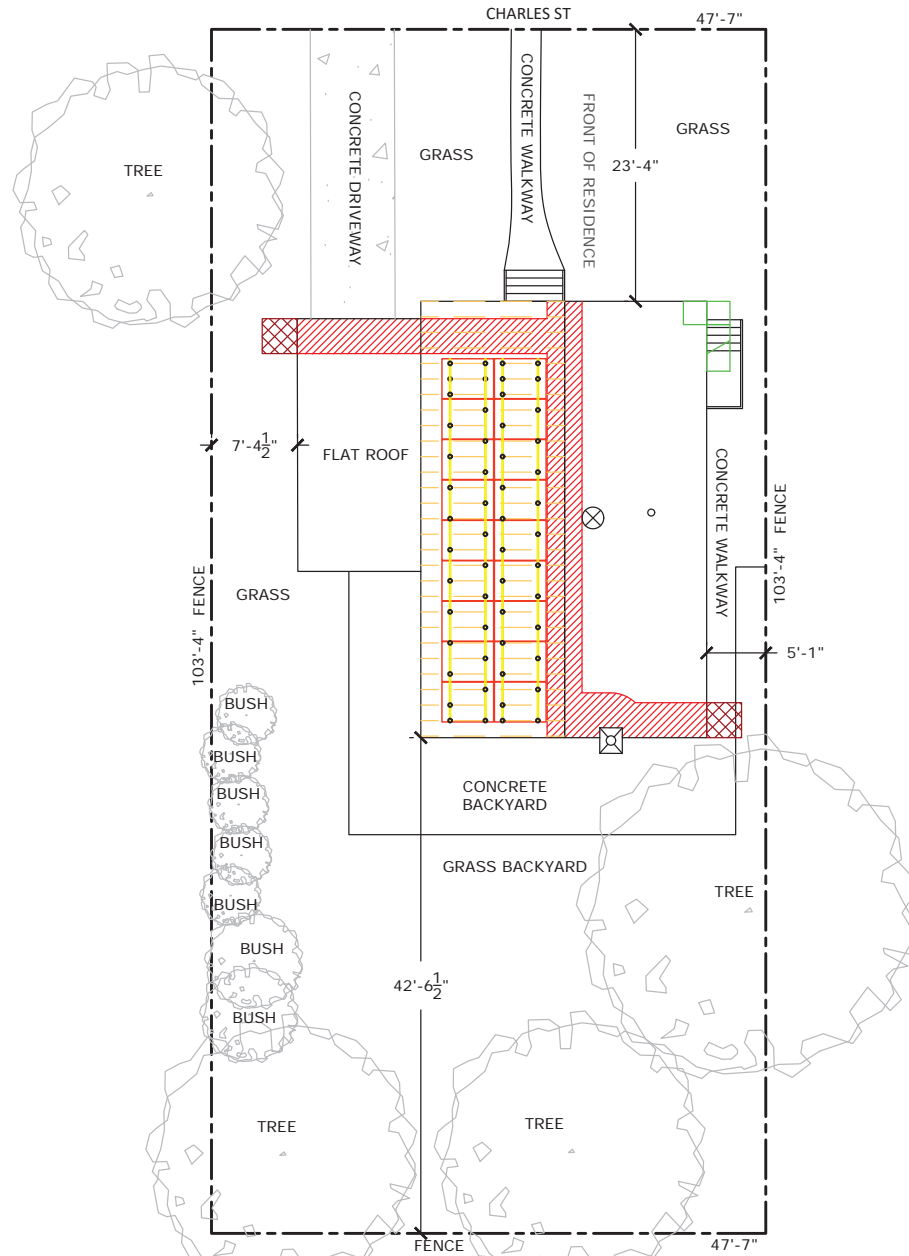
PV-2



SYMBOL LEGEND

MSP	MAIN SERVICE PANEL		CHIMNEY
SP	SUB-PANEL		SKYLIGHT
M	UTILITY METER		VENT
CB / AC / DISC	COMBINER BOX/AC DISCONNECT		PIPE VENT
UDC	UTILITY DISCONNECT		FAN
LC	LOAD CENTER		SATELLITE DISH
N3R	NEMA 3R BOX W/ ENVOY-S		FIRE SETBACKS
CB	COMBINER BOX		GROUND ACCESS
PF	PERFORMANCE METER		PITCH DIRECTION
	MODULE		

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



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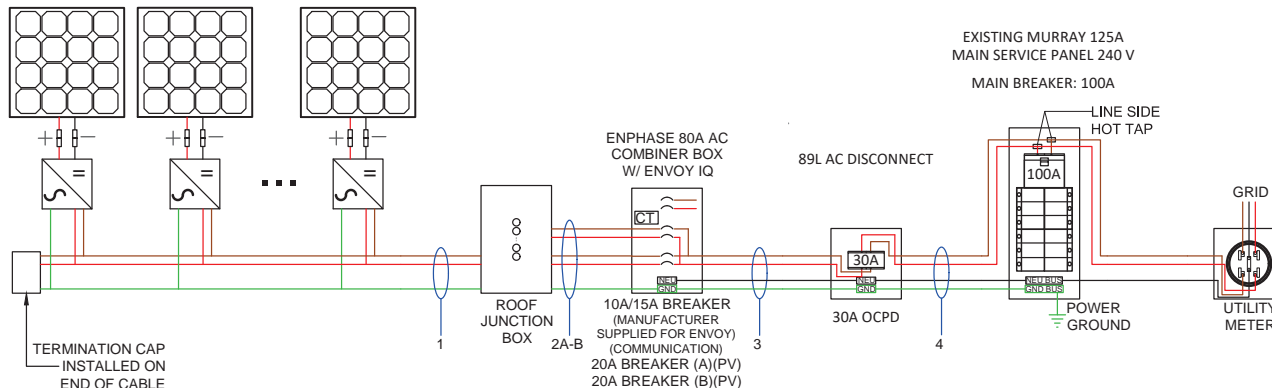
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PLOT PLAN

PV-2(2)

18 HANWHA Q.PEAK DUO BLK ML-G10+ 400 400W MODULES PAIRED WITH
18 ENPHASE IQ8PLUS-72-2-US MICRO-INVERTERS

BRANCH CIRCUIT A
9 MICRO-INVERTERS
BRANCH CIRCUIT B
9 MICRO-INVERTERS



ELECTRICAL NOTES:

1. ALL CALCULATIONS FOR VOC, VMAX, IMP AND ISC HAVE BEEN CALCULATED USING THE MANUFACTURED STRING CALCULATOR BASED ON ASHRAE 2% HIGH AND EXTREME MINIMUM TEMPERATURE COEFFICIENTS.
2. THE ENTIRE ARRAY IS BONDED ACCORDING TO (NEC 690.46 - 250.120 PARAGRAPH C).
3. BRANCH CIRCUIT CALCULATION FOR WIRE TAG 1 DISPLAYS THE LARGEST BRANCH CIRCUIT IN SYSTEM. OTHER BRANCH CIRCUITS WILL HAVE LOWER DESIGN CURRENT THAN THE ONE SHOWN.
4. THIS SYSTEM COMPLIES WITH NEC 2017 89L LESS THAN 10FT TO THE MAIN BREAKER/METER.

5. ALL CONDUCTORS ARE SIZED BASED ON NEC 2017 ARTICLE 310
6. ALL EQUIPMENT INSTALLED IS RATED AT 75°C UNLESS NOTED
7. INVERTER NOC (NOMINAL OPEN CURRENT) OBTAINED FROM EQUIPMENT DATA SHEET
8. GROUNDING CONDUCTOR RUN WITH PHASE CONDUCTOR IN THE SAME CONDUIT.
9. SYSTEM IS CONSIDERED AN AC MODULE SYSTEM. NO DC CONDUCTORS ARE PRESENT IN CONDUIT, COMBINER, JUNCTION BOX, DISCONNECT. AND COMPILES WITH 690.6- NO DC. DISCONNECT AND ASSOCIATED DC CABLING ARE REQUIRED.

10. SYSTEM COMPLIES WITH 690.12 RAPID SHUTDOWN AND ASSOCIATED LABELING AS PER 690.56(C)(3). AC VOLTAGE AND SYSTEM OPERATING CURRENT SHALL BE PROVIDED AS PER 690.52.
11. CONDUCTORS IN CONDUIT ARE AC CONDUCTORS - BRANCH CIRCUITS AND NOT PV SOURCE CIRCUITS 690.6.
12. ALL GROUNDING SHALL COMPLY WITH 690.47(A) IN THAT THE AC MODULES SHALL COMPLY WITH 250.64.
13. NO TERMINALS WILL BE ENERGIZED IN THE OPEN POSITION IN THIS AC MODULE SYSTEM 690.6, 690.17.
14. WHERE APPLICABLE, INTERCONNECTION SHALL COMPLY WITH 705.12(A) OR 705.12(B) AS PERMITTED BY 230.82(6)

Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type	Temp. Rating	Wire Ampacity (A)	Temp. Derate	Conduit Fill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type
1	OPEN AIR	2	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	9	1.21	1.25	13.61	12 AWG	Trunk Cable
2A	3/4" PVC	2	10 AWG	THWN-2	90°C	40	0.96	0.8	30.72	9	1.21	1.25	13.61	08 AWG	THWN-2
2B	3/4" PVC	2	10 AWG	THWN-2	90°C	40	0.96	0.8	30.72	9	1.21	1.25	13.61	08 AWG	THWN-2
3	3/4" PVC	3	10 AWG	THWN-2	75°C	35	0.96	1	33.60	18	1.21	1.25	27.23	08 AWG	THWN-2
4	3/4" PVC	3	06 AWG	THWN-2	75°C	65	0.96	1	62.40	18	1.21	1.25	27.23	08 AWG	THWN-2



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ELECTRICIAN

PRO CUSTOM SOLAR DBA MOMENTUM SOLAR
JEFFREY MARINELLO, (732) 902-6224
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**ELECTRICAL
PV-3**

TAG	LABEL	QUANTITY	LOCATION	NOTE	EXAMPLES
(A)		12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'	
(B)	 	1	COMBINER BOX	1 AT ANY COMBINER BOX	
(C)	 ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION	1	JUNCTION BOX	1 AT ANY JUNCTION BOX	
(D)	 PV SYSTEM AC DISCONNECT RATED AC OUTPUT CURRENT A NOMINAL OPERATING AC VOLTAGE 240 V POWER TO THIS SERVICE IS ALSO SUPPLIED FROM ON-SITE SOLAR GENERATION AC SYSTEM DISCONNECT 	1	AC DISCONNECT	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL	
(E)		1	PV METER SOCKET	1 AT PV METER SOCKET AND ONE DIRECTORY PLACARD	
(F)	 DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM 	1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD	
(G)	 TURN RAPID SHUTDOWN SWITCH TO THE 'OFF' POSITION TO SHUTDOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM 	1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT AND ONE DIRECTORY PLACARD	
(H)	 NOMINAL OPERATING AC VOLTAGE : 240V NOMINAL OPERATING AC FREQUENCY : 60HZ MAXIMUM AC POWER : 230VA MAXIMUM AC CURRENT : A MAXIMUM OVERCURRENT DEVICE RATING FOR AC MODULE PROTECTION : 20A	1	AC CURRENT PV MODULES		



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REV:	DATE:	DESIGNER:

EQUIPMENT LABELS

PV-4



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
 3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
 (732) 902-6224, MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
 3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080
 ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND
 AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS &
 ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE
 COMPLIANCE. WARNING THAT IT IS A VIOLATION OF THE LAW FOR
 ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A
 LICENSED PROFESSIONAL, TO ALTER AN ITEM IN ANY WAY.

CUSTOMER INFORMATION

PRIYASHARAN SHARMA - MS131456
 106 CHARLES ST
 FLORAL PARK, NY 11001
 5168209158

JURISDICTION: NASSAU
 UTILITY: PSEGLI
 UTILITY ACCT #:
 UTILITY METER #:

PV SYSTEM INFORMATION

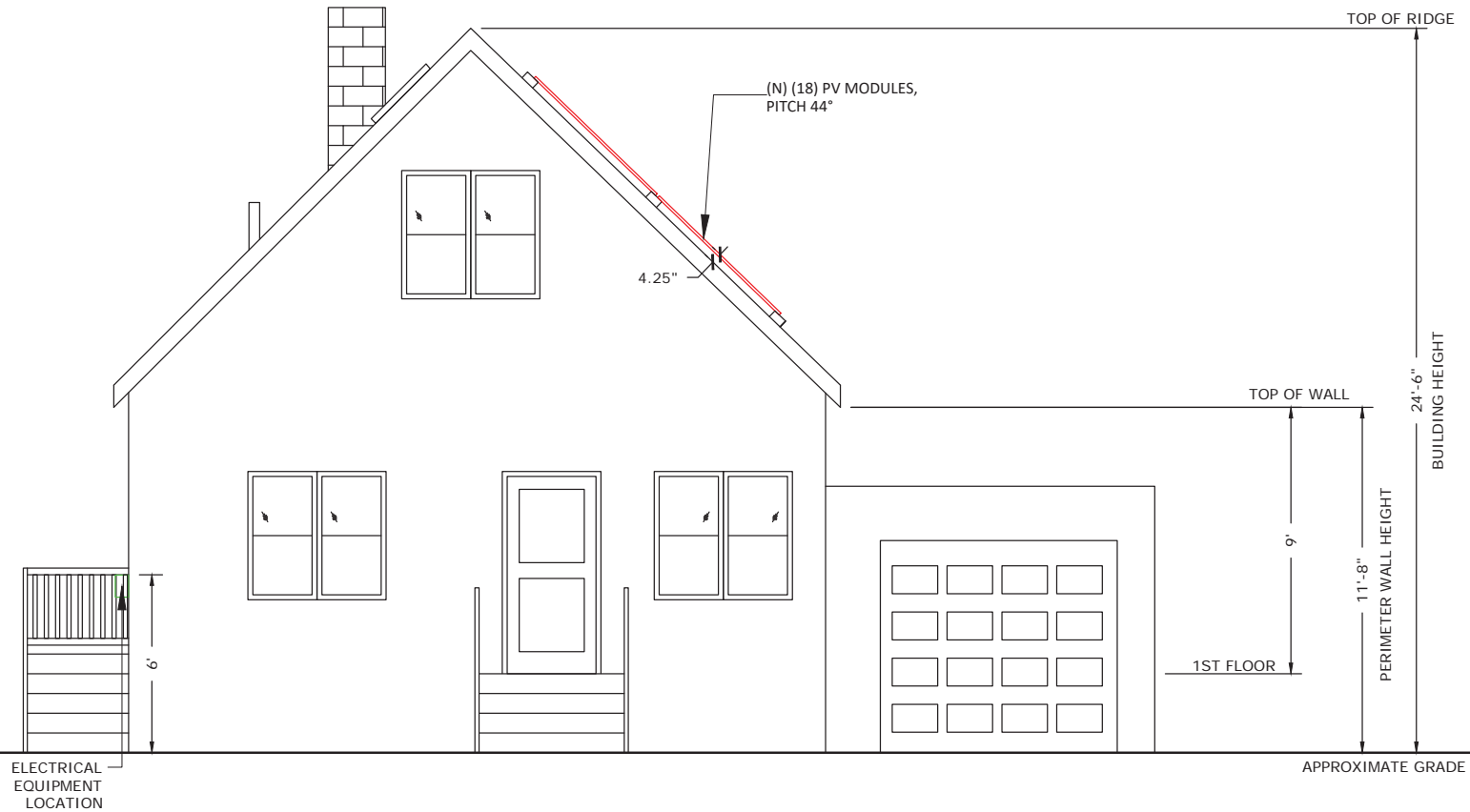
SYSTEM SIZE (DC): 7.2 KW
 SYSTEM SIZE (AC): 5.22 KVA
 18 MODULES: HANWHA Q.PEAK DUO BLK
 ML-G10+ 400
 (SAFE HARBOR MODULES: 0)
 18 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE: 8/10/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ELEVATION

PV-5



FRONT ELEVATION
SCALE: 1/4" = 1'-0"



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PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
 3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07060
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 106 CHARLES ST
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 5168209158

JURISTDICTION: NASSAU
 UTILITY: PSEGLI
 UTILITY ACCT #:
 UTILITY METER #:

PV SYSTEM INFORMATION

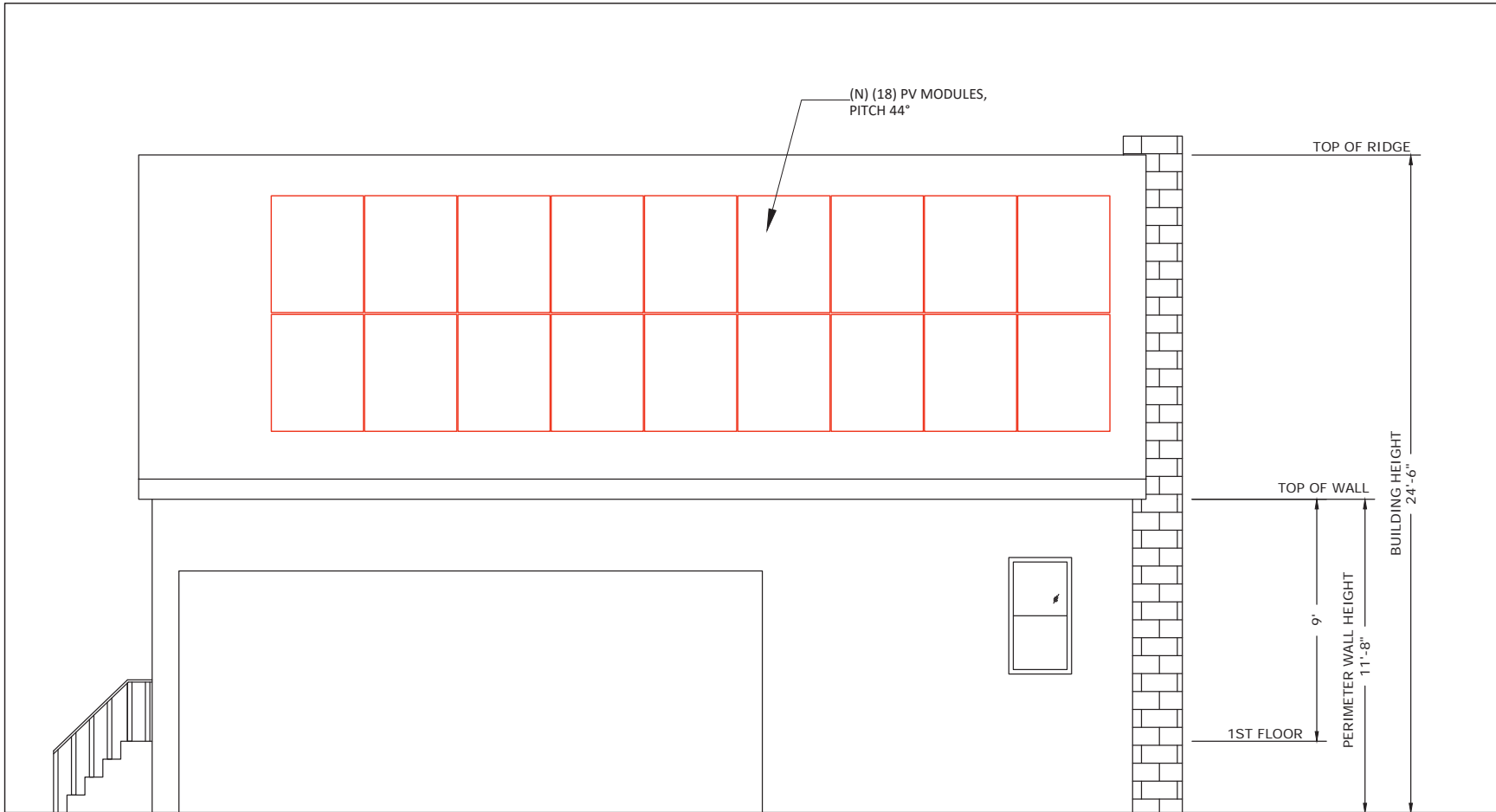
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 ML-G10+ 400
 (SAFE HARBOR MODULES: 0)
 18 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE: 8/10/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ELEVATION

PV-6



SOUTHWEST ELEVATION
SCALE: 1/4" = 1'-0"



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PROFESSIONAL ENGINEERING



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 106 CHARLES ST
 FLORAL PARK, NY 11001
 5168209158

JURISDICTION: NASSAU
 UTILITY: PSE&I
 UTILITY ACCT #:
 UTILITY METER #:

PV SYSTEM INFORMATION

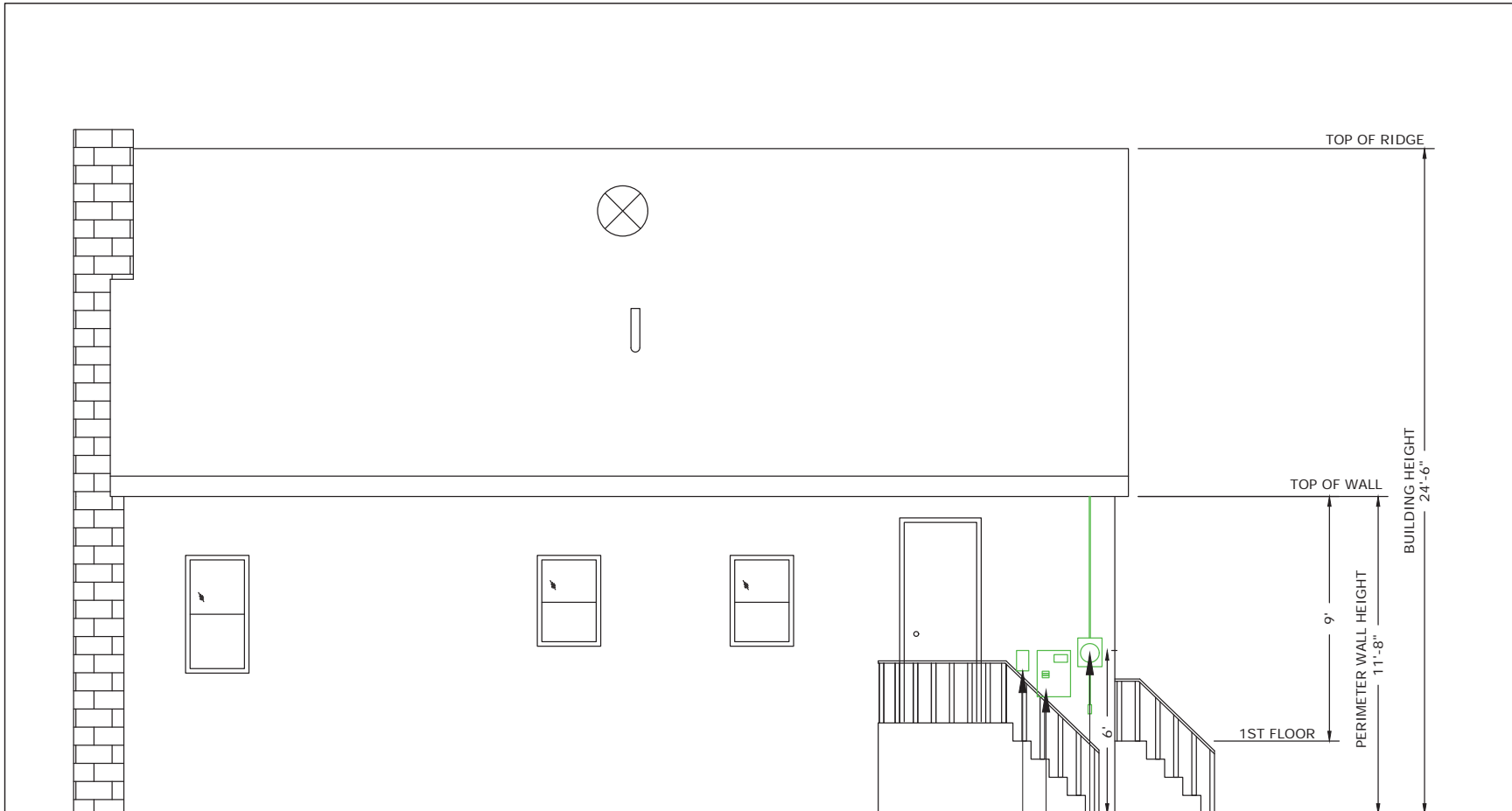
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 (SAFE HARBOR MODULES: 0)
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PROJECT INFORMATION

INITIAL	DATE: 8/10/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ELEVATION

PV-7



NORTHEAST ELEVATION
SCALE: 1/4" = 1'-0"

(E) UTILITY METER
 (N) AC COMBINER BOX
 (N) AC DISCONNECT
 WHEN BACKFEED AND
 CONNECTER ARE NOT
 AVAILABLE
 6'-7" MAX TO TOP OF
 DISCONNECT SWITCH

TOP OF RIDGE
 TOP OF WALL
 BUILDING HEIGHT 24'-6"
 PERIMETER WALL HEIGHT 9'
 11'-8"
 APPROXIMATE GRADE
 1ST FLOOR



FRONT OF HOUSE

PANELS ARE NOT VISIBLE FROM FRONT OF HOUSE



REAR VIEW



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PROJECT INFORMATION

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REV:	DATE:	DESIGNER:

SUPERIMPOSED PHOTOS

PV-8



NORtheast VIEW



SOUTHWEST VIEW



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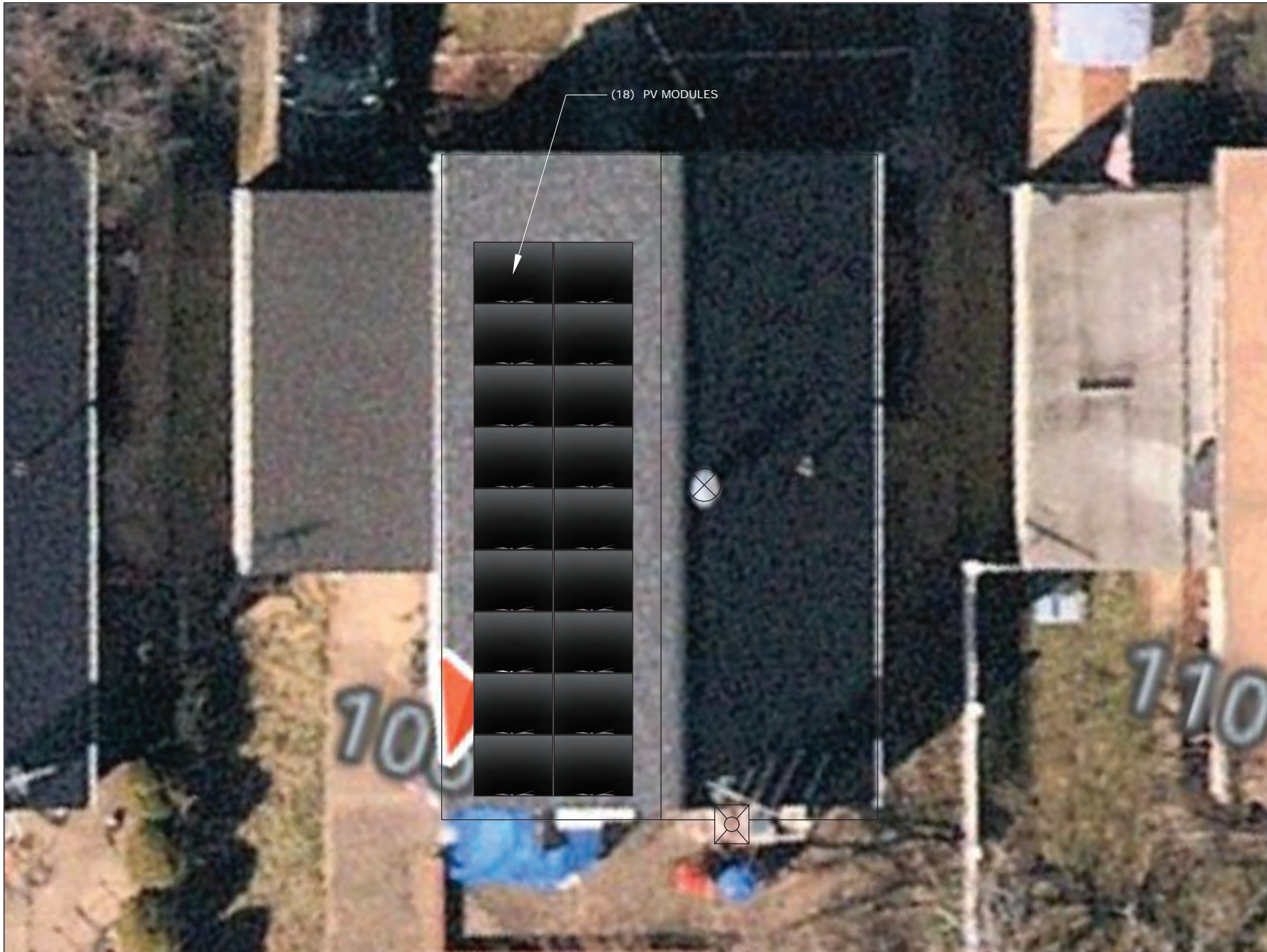
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 (SAFE HARBOR MODULES: 0)
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PROJECT INFORMATION

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REV:	DATE:	DESIGNER:

SUPERIMPOSED PHOTOS

PV-9



(18) PV MODULES



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PROFESSIONAL ENGINEERING



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 106 CHARLES ST
 FLORAL PARK, NY 11001
 5168209158
 JURISDICTION: NASSAU
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 UTILITY ACCT #:
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 ML-G10+ 400
 (SAFE HARBOR MODULES: 0)
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PROJECT INFORMATION

INITIAL	DATE: 8/10/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

SUPERIMPOSED PANELS

PV-10

powered by

Q.ANTUM DUO Z

Q.PEAK DUO BLK ML-G10+ 385-405

ENDURING HIGH
PERFORMANCE



BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.



THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY

Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400Pa) and wind loads (4000Pa).



A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty².

¹ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96h)

² See data sheet on rear for further information.



THE IDEAL SOLUTION FOR:



Rooftop arrays on
residential buildings

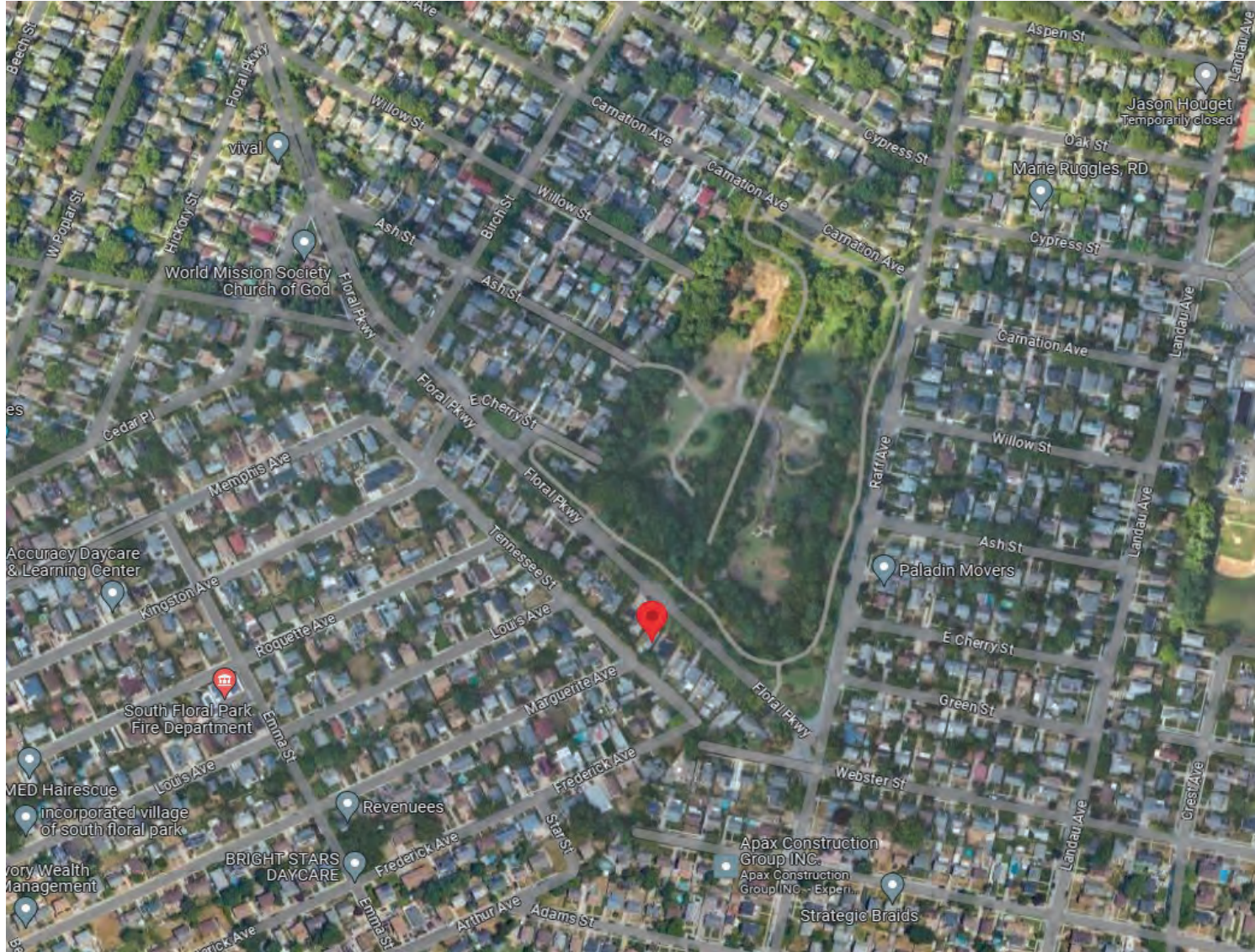
Engineered in Germany

Q CELLS

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
5	8:20 p.m.	232	Floral Parkway	Solar	Cesar Trinidad	Momentum Solar



232 Floral Parkway (Aerial View)



PLAN KEY	
PV-1	COVER PAGE
PV-1(2)	COVER PAGE CONT.
PV-2	PANEL LAYOUT
PV-2(2)	PLOT PLAN
PV-3	ELECTRICAL
PV-4	EQUIPMENT LABELS
PV-5	ELEVATION
PV-6	ELEVATION
PV-7	ELEVATION
PV-8	SUPERIMPOSED PHOTOS
PV-9	SUPERIMPOSED PHOTOS
PV-10	SUPERIMPOSED PANELS

SYSTEM INFORMATION	
MODULE	HANWHA Q.PEAK DUO BLK-G10+ 365
INVERTER	ENPHASE IQ8PLUS-72-2-US
RACKING	ROOFTECH RT-MINI W/UNIRAC 2-RAIL SYSTEM
SYSTEM SIZE (DC)	4.38 KW
LOCATION	40.7145273,-73.6965591

GENERAL NOTES:

THIS PV SYSTEM HAS BEEN DESIGNED TO MEET THE MINIMUM DESIGN STANDARDS FOR BUILDING AND OTHER STRUCTURES OF THE ASCE 7-16, 2020 NYS BUILDING CODE AND 2020 NYS RESIDENTIAL CODE, NEC 2017 AND ALL LOCAL CODES & ORDINANCES.

AN 18" WIDE (FREE OF SOLAR EQUIPMENT) SHALL BE PROVIDED ON BOTH SIDES OF THE ROOF. NOT FEWER THAN TWO PATHWAYS, ON SEPARATE ROOF PLANES FROM LOWEST ROOF EDGE TO RIDGE AND NOT LESS THAN 36 INCHES (914 MM) WIDE, SHALL BE PROVIDED ON ALL BUILDINGS. NOT FEWER THAN ONE PATHWAY SHALL BE PROVIDED ON THE STREET OR DRIVEWAY SIDE OF THE ROOF. FOR EACH ROOF PLANE WITH A PHOTOVOLTAIC ARRAY, A PATHWAY NOT LESS THAN 36 INCHES WIDE (914 MM) SHALL BE PROVIDED FROM THE LOWEST ROOF EDGE TO RIDGE ON THE SAME ROOF PLANE AS THE PHOTOVOLTAIC ARRAY, ON AN ADJACENT ROOF PLANE, OR STRADDLING THE SAME AND ADJACENT ROOF PLANES.

ROOF SHALL HAVE NO MORE THAN TWO LAYERS OF COVERING IN ADDITION TO THE SOLAR EQUIPMENT.

INSTALLATION OF SOLAR EQUIPMENT SHALL BE FLUSH MOUNTED, PARALLEL TO AND NO MORE THAN 6-INCHES ABOVE THE SURFACE OF THE ROOF.

WEIGHT OF THE INSTALLED SYSTEM SHALL NOT EXCEED MORE THAN 5-PSF FOR PHOTOVOLTAIC AND NO MORE THAN 6-PSF FOR RESIDENTIAL SOLAR HOT WATER SYSTEMS.

ANY PLUMBING VENTS ARE NOT TO BE CUT OR COVERED FOR SOLAR EQUIPMENT INSTALLATION. ANY RELOCATION OR MODIFICATION OF THE VENT REQUIRES A PLUMBING PERMIT AND INSPECTION.

INVERTER PLACEMENT:

SYSTEM UTILIZES "ENPHASE" MICRO-INVERTERS WITH RAPID SHUTDOWN CONTROL LOCATED ON THE BACK SIDE OF EACH MODULE.

BUILDING REVIEW NOTE:

TOWN BUILDING PLANS EXAMINER HAS RECEIVED THE ENCLOSED DOCUMENT FOR MINIMUM ACCEPTABLE PLAN SUBMITTAL REQUIREMENTS OF THE TOWN AS SPECIFIED IN THE BUILDING AND/OR RESIDENTIAL CODE OF THE STATE OF NEW YORK. THIS REVIEW DOES NOT GUARANTEE COMPLIANCE OF THAT CODE. THAT RESPONSIBILITY IS GUARANTEED UNDER THE SEAL AND SIGNATURE OF THE NEW YORK LICENSED DESIGN PROFESSIONAL OF RECORD. THAT SEAL AND SIGNATURE HAS BEEN INTERPRETED AS AN ATTESTATION THAT, TO THE BEST OF THE LICENSEE'S BELIEF AND INFORMATION, THE WORK IN DOCUMENT IS:

1. ACCURATE
2. CONFORMS WITH GOVERNING CODES APPLICABLE AT THE TIME OF THE SUBMISSION.
3. CONFORMS WITH REASONABLE STANDARDS OF PRACTICE AND WITH VIEW TO THE SAFEGUARDING OF LIFE, HEALTH, PROPERTY AND PUBLIC WELFARE IS THE RESPONSIBILITY OF THE LICENSEE.

THE RESPONSIBLE LICENSED DESIGN PROFESSIONAL SHALL PROVIDE A SIGNED AND SEALED LETTER CERTIFYING THE INSTALLATION WAS INSPECTED AND CONFORMS TO THE PLANS AND REQUIREMENTS OF THE 2020 NYS BUILDING CODE AND 2020 NYS RESIDENTIAL CODE. THIS INSPECTION AND CERTIFICATION LETTER SHALL BE PERFORMED AFTER INSTALLATIONS ARE COMPLETED AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO SCHEDULING OF FINAL INSPECTION.

THE UL CERTIFICATE OF ELECTRICAL INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO SCHEDULING OF FINAL INSPECTION.

BILL OF MATERIALS	
NON SH MODULES	12
SH MODULES	0
INVERTERS	12
L-FOOT ATTACHMENT W/ RT-MINI	47
ENPHASE COMBINER BOX	1
NON-FUSIBLE SOLAR AC DISCONNECT	1
20A BREAKER	1
171" RAIL	6



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
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PROFESSIONAL ENGINEERING



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CUSTOMER INFORMATION

CESAR TRINIDAD - MS134903
232 FLORAL PKWY
FLORAL PARK, NY 11001
6464579819

JURISDICTION: NASSAU
UTILITY: PSE&I
UTILITY ACCT #:
UTILITY METER #:

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 4.38 KW
SYSTEM SIZE (AC): 3.48 KVA
12 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365
(SAFE HARBOR MODULES: 0)
12 INVERTERS: ENPHASE IQ8PLUS-72-2-US

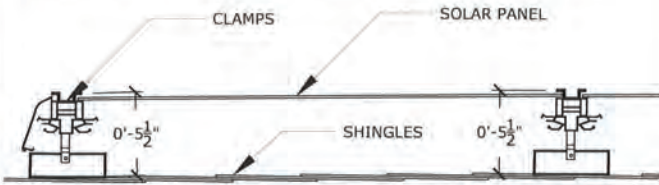
PROJECT INFORMATION

INITIAL	DATE: 8/25/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

COVER PAGE

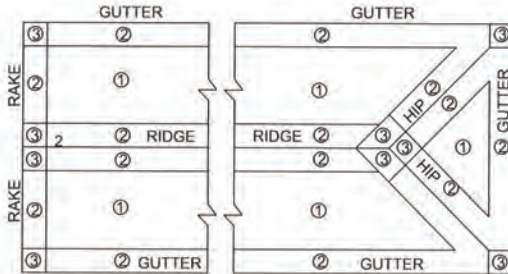
PV-1

1. ALL WIND DESIGN CRITERIA ARE FOR LOW SLOPE ROOFS, GABLE AND HIP ROOFS CONSIDERED FROM AN ANGLE OF MIN. 9.5° TO MAX. 60° NOT TO EXCEED 30' MEAN ROOF HEIGHT ATTACHED WITH FASTENERS AS SPECIFIED BY THE MANUFACTURER.
2. SPAN TABLES ARE DERIVED FROM MECHANICAL LOAD TESTS PERFORMED BY THE MANUFACTURERS INDEPENDENT TESTING AGENCIES ON BEHALF OF THE MANUFACTURER.
3. ROOF SEALANTS SHALL CONFORM TO ASTM C920 AND ASTM 6511
4. ALL ATTACHMENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.



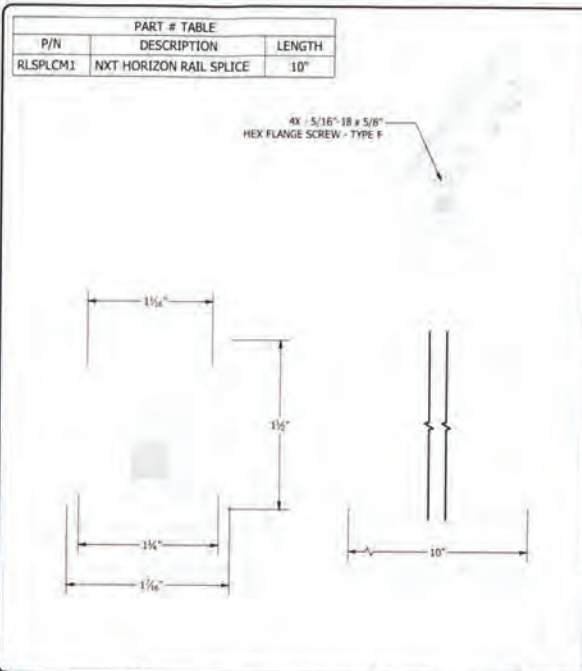
CROSS SECTION OF ROOF SHOWING ATTACHMENT DETAILS
SCALE: 1-1/2" = 1"

ATTACHMENT SPACING EXCEED MANUFACTURERS SPECIFICATIONS FOR WIND LOADS AS PER ASCE 07-16. RISK CATEGORY II TOPOGRAPHIC EFFECTS B, C, & D AND ROOF WIND ZONES 1, 2, & 3. ROOF ZONES 2 & 3 ARE WITHIN 48" OF ANY OUTER EDGE, HIP, RIDGE, OR GUTTER LINE FOR STRUCTURES 30'-0" OR LESS MEAN ROOF HEIGHT.



ROOF WIND ZONES AS PER IRC R301.2(7)
ROOF ZONES 2 & 3 ARE 48" FROM OUTER ROOF EDGES, RIDGES, HIPs, RAKES, AND GUTTER EDGES FOR STRUCTURES BELOW 30'-0" MEAN ROOF HT.

TOTAL WEIGHT OF PV MODULES AND RAILS	502.2 LBS
TOTAL NUMBER OF ATTACHMENT POINTS	37
WEIGHT PER ATTACHMENT POINT	13.572972972973 LBS
TOTAL SURFACE AREA OF PV MODULES	217.68 SQFT
DISTRIBUTED WEIGHT OF PV MODULE ON ROOF	2.31 LBS./SQFT

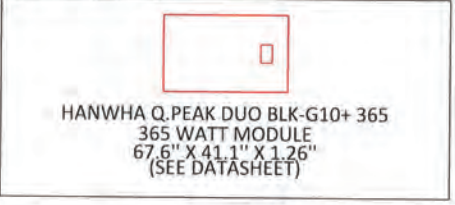


<p>UNIRAC 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM</p>	PRODUCT LINE: NXT HORIZON	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL	NH-P02 SHEET	
	DRAWING TYPE: PART DETAIL			
	DESCRIPTION: RAIL SPLICE			PRODUCT PROTECTED BY ONE OR MORE US PATENTS
	REVISION DATE: 9/22/2021			LEGAL NOTICE

GROUND SNOW LOAD(LBS/SF)	25
SPEED (MPH)	120
TOPOGRAPHIC EFFECTS	B
SPECIAL WIND REGION	NO
WIND BORNE DEBRIS ZONE	2
SEISMIC DESIGN CATEGORY	B
CLIMATE ZONE	4A
WIND EXPOSURE CATEGORY	B

STRUCTURAL STATEMENT:
THE EXISTING STRUCTURE IS ADEQUATE TO SUPPORT THE NEW LOADS IMPOSED BY THE PHOTOVOLTAIC MODULE SYSTEM INCLUDING UPLIFT & SHEAR. EXISTING RAFTER SIZES & DIMENSIONS CONFIRM TO 2020 NYS BUILDING CODE AND RESIDENTIAL CODE TABLE R802.5(1)-JOIST SPANS.

MOUNTING BRACKETS AND HARDWARE MEET OR EXCEED NEW YORK STATE CODE REQUIREMENTS FOR THE DESIGN CRITERIA OF THE TOWN.



RT-MINI II

A Ball-Flashing PV Mount Featuring Roof Tech's AlphaSeal™ Technology

- ✓ Less Aluminum
- ✓ More Efficient Design
- ✓ Additional Mounting Options
- ✓ Metal: EPDM, TPO, & Asphalt Roofs

RT-MINI II is suitable for all systems with a conventional L-foot

1/4" x 1" Carriage Bolt - EMT Accessory

RT Serrated Hex Flange Bolt/Flut: 616-28 x 1"

ICC ESR 3575

Roof Tech

Flexible Flashing Certified by the International Code Council (ICC)

Components	Dimensions (in mm)
RT-MINI II-MOUNT	114mm
RT-MINI II-FLASHING	114mm
RT-MINI II-FLANGE BOLT	114mm
RT-MINI II-CARRIAGE BOLT	114mm
RT-MINI II-EMT ACCESSORY	114mm

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momentum SOLAR

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ATTACHMENT DETAIL

PV-1(2)

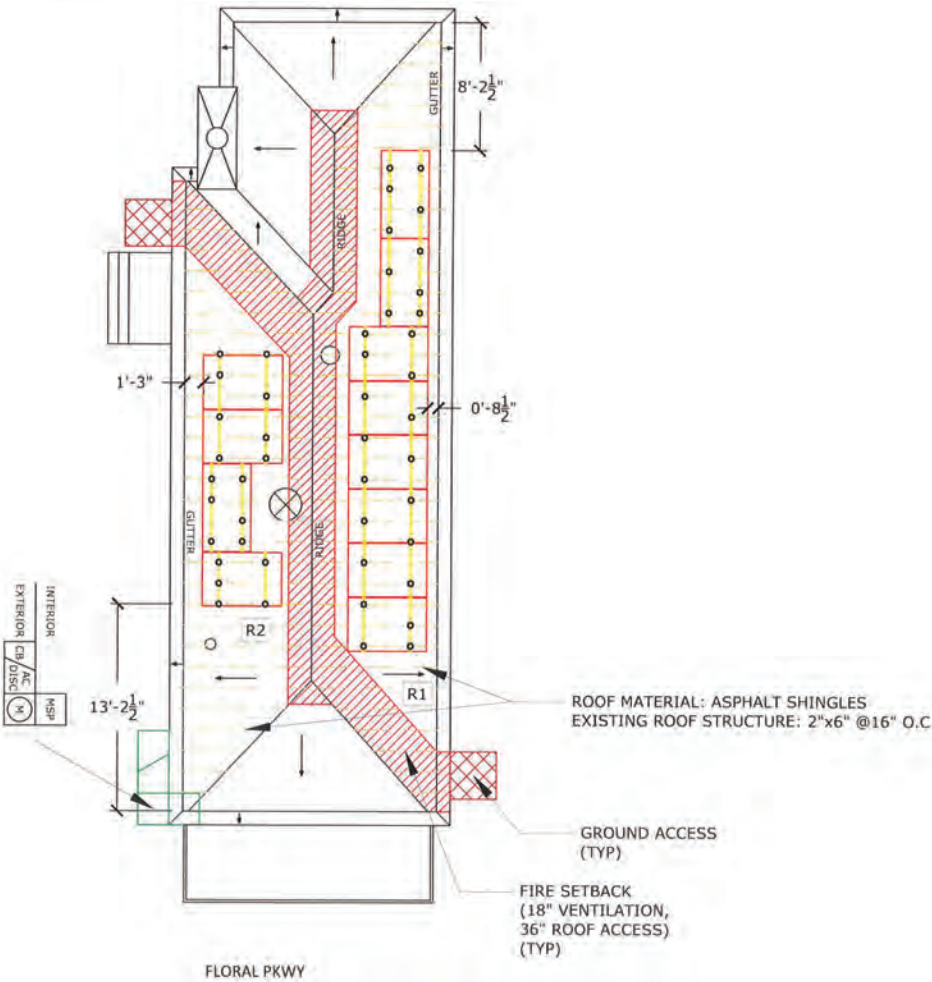
SCALE: 1/8" = 1'-0"

FLORAL PKWY



FRONT OF RESIDENCE

DRIVEWAY



ROOF	MODULE COUNT	TILT	AZIMUTH	SHADING	LANDSCAPE MAX SPAN (ROOF AREA 1/2/3)	PORTRAIT MAX SPAN (ROOF AREA 1/2/3)
R1	8	25°	120°	70%	48 /32 /32	48 /32 /32
R2	4	24°	300°	88%	48 /32 /32	48 /32 /32



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PROFESSIONAL ENGINEERING



MINA A. MAKAR, P.E. NY LICENSE # 104468 (732) 902-6224
3096 HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080
ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS & ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE COMPLIANCE. WARNING THAT IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL, TO ALTER AN ITEM IN ANY WAY.

CUSTOMER INFORMATION

CESAR TRINIDAD - MS134903
232 FLORAL PKWY
FLORAL PARK, NY 11001
6464579819

JURISDICTION: NASSAU
UTILITY: PSE&I
UTILITY ACCT #:
UTILITY METER #:

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 4.38 KW
SYSTEM SIZE (AC): 3.48 KVA
12 MODULES: HANWHA Q.PEAK DUO
BLK-G10+ 365
(SAFE HARBOR MODULES; 0)
12 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE: 8/25/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

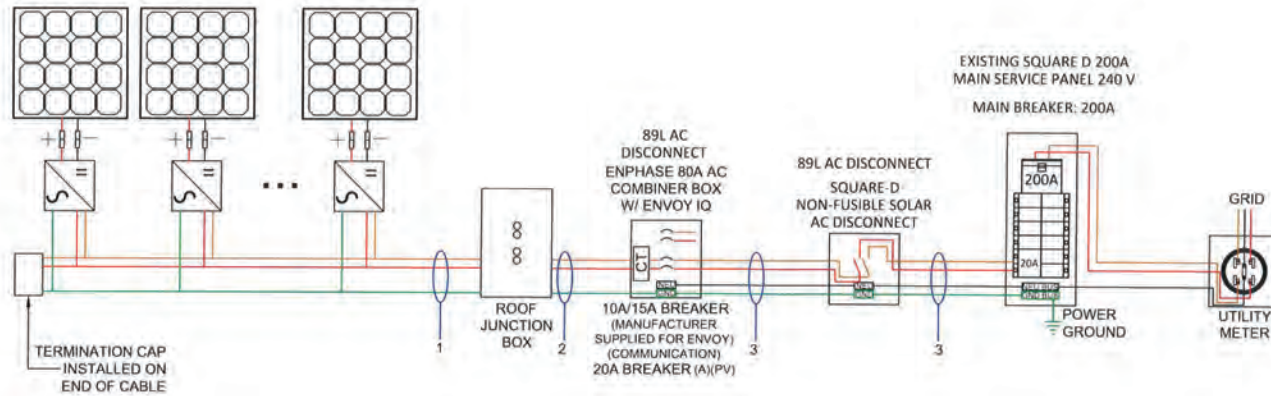
PANEL LAYOUT

PV-2

SYMBOL LEGEND			
MSP	MAIN SERVICE PANEL		CHIMNEY
SP	SUB-PANEL		SKYLIGHT
M	UTILITY METER		VENT
CB / AC / DISC	COMBINER BOX/AC DISCONNECT		PIPE VENT
UDC	UTILITY DISCONNECT		FAN
LC	LOAD CENTER		SATELLITE DISH
N3R	NEMA 3R BOX W/ ENVOY-S		FIRE SETBACKS
CB	COMBINER BOX		GROUND ACCESS
PF	PERFORMANCE METER		PITCH DIRECTION
	MODULE		

12 HANWHA Q.PEAK DUO BLK-G10+ 365 365W MODULES PAIRED WITH
12 ENPHASE IQ8PLUS-72-2-US MICRO-INVERTERS

BRANCH CIRCUIT A
12 MICRO-INVERTERS



120% RULE

(BUS RATING x 1.2) - MAIN BREAKER = BACKFEED AVAILABLE

(200A x 1.2) - 200A = 40A BACKFEED AVAILABLE

ELECTRICAL NOTES:

1. ALL CALCULATIONS FOR VOC, VMAX, IMP AND ISC HAVE BEEN CALCULATED USING THE MANUFACTURED STRING CALCULATOR BASED ON ASHRAE 2% HIGH AND EXTREME MINIMUM TEMPERATURE COEFFICIENTS.
2. THE ENTIRE ARRAY IS BONDED ACCORDING TO (NEC 690.46 - 250.120 PARAGRAPH C).
3. BRANCH CIRCUIT CALCULATION FOR WIRE TAG 1 DISPLAYS THE LARGEST BRANCH CIRCUIT IN SYSTEM. OTHER BRANCH CIRCUITS WILL HAVE LOWER DESIGN CURRENT THAN THE ONE SHOWN.
4. THIS SYSTEM COMPLIES WITH NEC 2017
- 89L VISIBLY BROKEN, LOCKABLE, LABELLED, GANG OPERATED LOAD BREAKER.

5. ALL CONDUCTORS ARE SIZED BASED ON NEC 2017 ARTICLE 310
6. ALL EQUIPMENT INSTALLED IS RATED AT 75°C UNLESS NOTED
7. INVERTER NOC (NOMINAL OPEN CURRENT) OBTAINED FROM EQUIPMENT DATA SHEET
8. GROUNDING CONDUCTOR RUN WITH PHASE CONDUCTOR IN THE SAME CONDUIT.
9. SYSTEM IS CONSIDERED AN AC MODULE SYSTEM. NO DC CONDUCTORS ARE PRESENT IN CONDUIT, COMBINER, JUNCTION BOX, DISCONNECT. AND COMPILES WITH 690.6- NO DC. DISCONNECT AND ASSOCIATED DC CABLING ARE REQUIRED.

10. SYSTEM COMPLIES WITH 690.12 RAPID SHUTDOWN AND ASSOCIATED LABELING AS PER 690.56(C)(3). AC VOLTAGE AND SYSTEM OPERATING CURRENT SHALL BE PROVIDED AS PER 690.52.
11. CONDUCTORS IN CONDUIT ARE AC CONDUCTORS - BRANCH CIRCUITS AND NOT PV SOURCE CIRCUITS 690.6.
12. ALL GROUNDING SHALL COMPLY WITH 690.47(A) IN THAT THE AC MODULES SHALL COMPLY WITH 250.64.
13. NO TERMINALS WILL BE ENERGIZED IN THE OPEN POSITION IN THIS AC MODULE SYSTEM 690.6, 690.17.
14. WHERE APPLICABLE, INTERCONNECTION SHALL COMPLY WITH 705.12(A) OR 705.12(B) AS PERMITTED BY 230.82(6)

Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type	Temp. Rating	Wire Ampacity (A)	Temp. Derate	Conduit Fill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type
1	OPEN AIR	2	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	12	1.21	1.25	18.15	12 AWG	Trunk Cable
2	3/4" PVC	2	10 AWG	THWN-2	90°C	40	0.96	1	38.40	12	1.21	1.25	18.15	08 AWG	THWN-2
3	3/4" PVC	3	10 AWG	THWN-2	75°C	35	0.96	1	33.60	12	1.21	1.25	18.15	08 AWG	THWN-2



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
(732) 902-6224, MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



MINA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080
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ELECTRICIAN

PRO CUSTOM SOLAR DBA MOMENTUM SOLAR
JEFFREY MARINELLO, (732) 902-6224
3096 HAMILTON BLVD. BUILDING B, SOUTH PLAINFIELD, NJ 07080

CUSTOMER INFORMATION

CESAR TRINIDAD - MS134903
232 FLORAL PKWY
FLORAL PARK, NY 11001
6464579819

JURISDICTION: NASSAU
UTILITY: PSE&I
UTILITY ACCT #:
UTILITY METER #:

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 4.38 KW
SYSTEM SIZE (AC): 3.48 KVA
12 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365
(SAFE HARBOR MODULES: 0)
12 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE: 8/25/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ELECTRICAL

PV-3

TAG	LABEL	QUANTITY	LOCATION	NOTE
(A)	CAUTION: AC SOLAR VOLTAGE	12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'
(B)	! WARNING PHOTOVOLTAIC POWER SOURCE	1	COMBINER BOX	1 AT ANY COMBINER BOX
(C)	! WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION	1	JUNCTION BOX	1 AT ANY JUNCTION BOX
(D)	<p>PV SYSTEM AC DISCONNECT RATED AC OUTPUT CURRENT A NOMINAL OPERATING AC VOLTAGE 240 V</p> <p>! CAUTION POWER TO THIS SERVICE IS ALSO SUPPLIED FROM ON-SITE SOLAR GENERATION AC SYSTEM DISCONNECT</p> <p>! WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION</p> <p>RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM</p>	1	AC DISCONNECT	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL
(E)	PV METER	1	PV METER SOCKET	1 AT PV METER SOCKET AND ONE DIRECTORY PLACARD
(F)	! WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM	1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD
(G)	<p>SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN</p> <p>TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUTDOWN PV SYSTEM AND REDUCE BROOD HEAT IN AREA</p> <p>! WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM</p> <p>! WARNING: INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE</p>	1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT AND ONE DIRECTORY PLACARD
(H)	NOMINAL OPERATING AC VOLTAGE : 240V NOMINAL OPERATING AC FREQUENCY : 60HZ MAXIMUM AC POWER : 230VA MAXIMUM AC CURRENT : A MAXIMUM OVERCURRENT DEVICE RATING FOR AC MODULE PROTECTION : 20A	1	AC CURRENT PV MODULES	

EXAMPLES



(A)



(B)



(C)



(D)




(E)



(F)




(G) BACKFEED

 **momentum SOLAR**

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PROFESSIONAL ENGINEERING



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CESAR TRINIDAD - MS134903
232 FLORAL PKWY
FLORAL PARK, NY 11001
6464579819

JURISDICTION: NASSAU
UTILITY: PSEGLI
UTILITY ACCT #:
UTILITY METER #:

PV SYSTEM INFORMATION

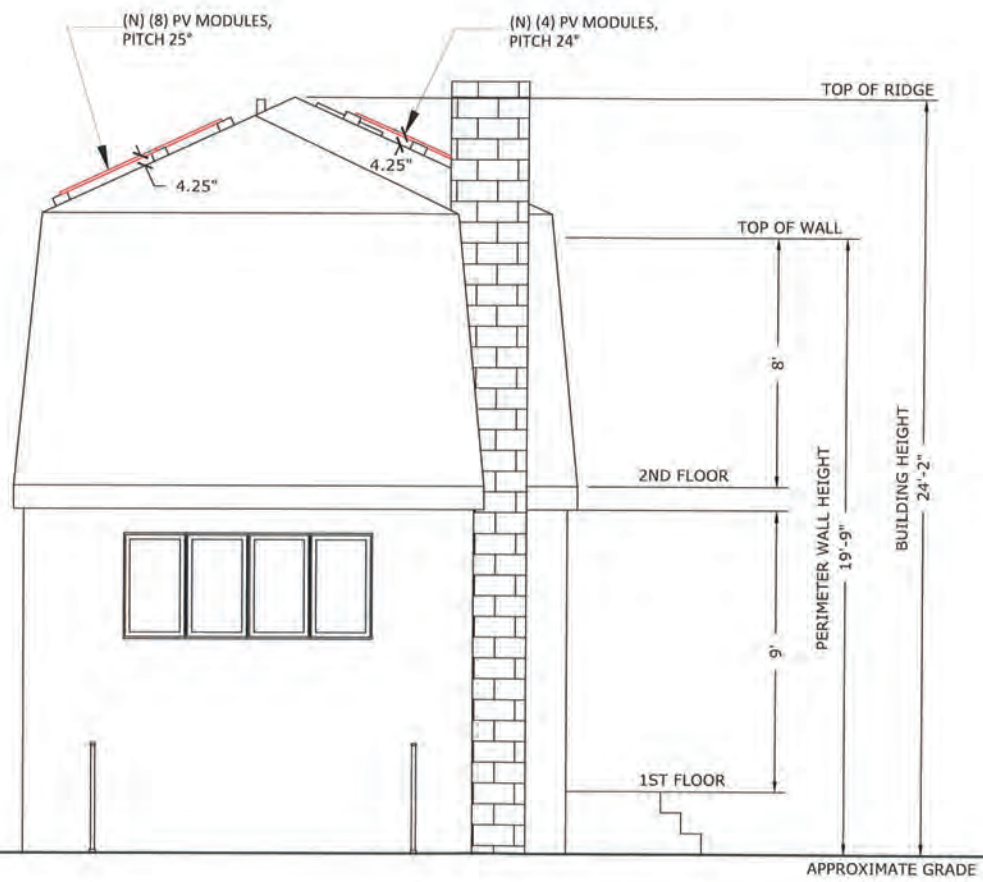
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(SAFE HARBOR MODULES: 0)
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PROJECT INFORMATION

INITIAL	DATE: 8/25/2023	DESIGNER: NA
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EQUIPMENT LABELS

PV-4



FRONT ELEVATION
SCALE: 1/4" = 1'-0"



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PROFESSIONAL ENGINEERING



MINA A. MAKAR, P.E. NY LICENSE # 104468 (732) 902-6224
 3096 HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080
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CUSTOMER INFORMATION

CESAR TRINIDAD - MS134903
 232 FLORAL PKWY
 FLORAL PARK, NY 11001
 6464579819
 JURISDICTION: NASSAU
 UTILITY: PSEGLI
 UTILITY ACCT #:
 UTILITY METER #:

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 (SAFE HARBOR MODULES: 0)
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PROJECT INFORMATION

INITIAL	DATE: 8/25/2023	DESIGNER: NA
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REV:	DATE:	DESIGNER:

ELEVATION

PV-5



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
 3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
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PROFESSIONAL ENGINEERING



MINA A. MAKAR, P.E. NY LICENSE # 104468 (7/23/2012-02/2024)
 3096 HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080
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CUSTOMER INFORMATION

CESAR TRINIDAD - MS134903
 232 FLORAL PKWY
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 6464579819

JURISDICTION: NASSAU
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 UTILITY ACCT #:
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PV SYSTEM INFORMATION

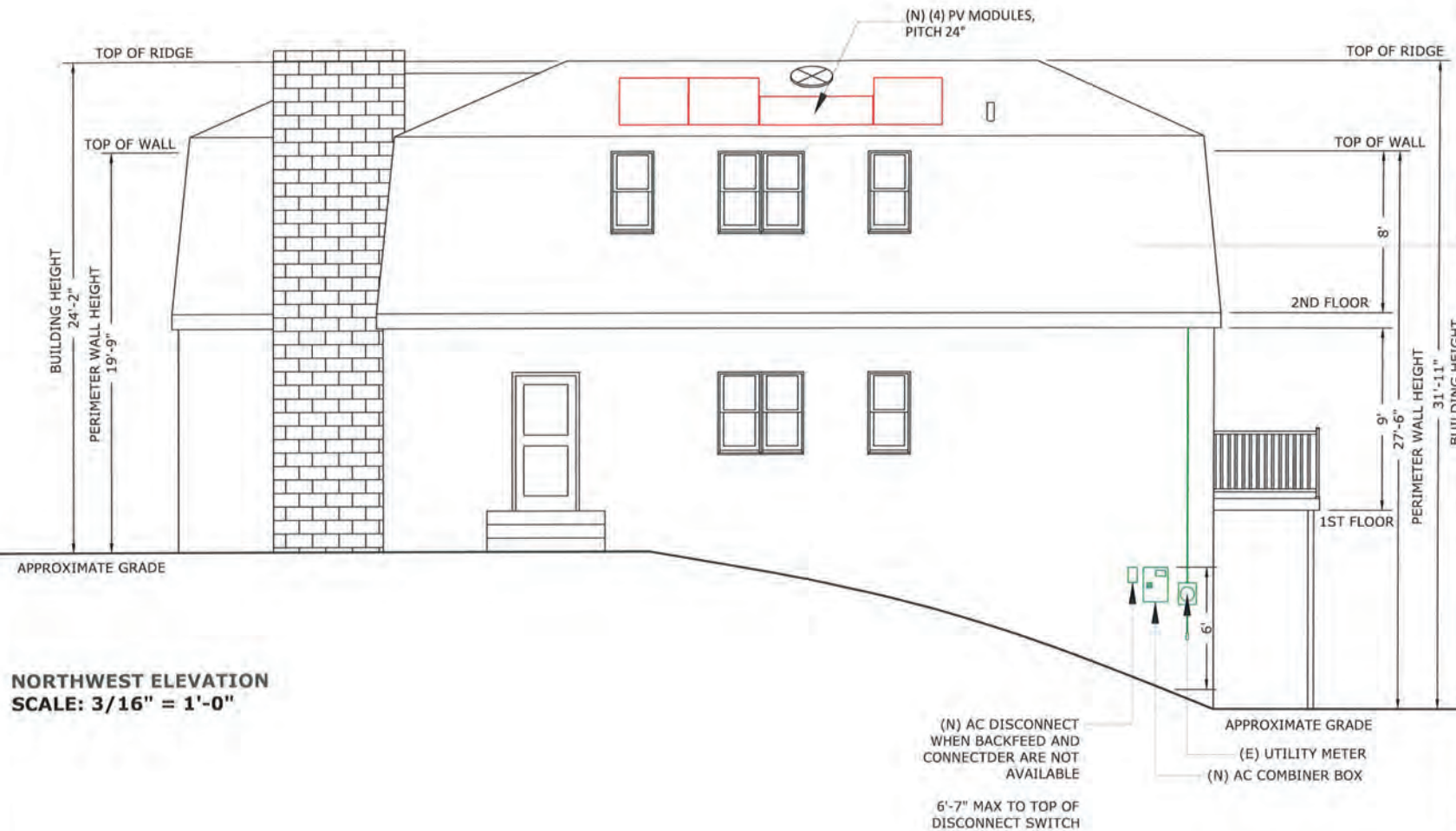
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 BLK-G10+ 365
 (SAFE HARBOR MODULES: 0)
 12 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE: 8/25/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ELEVATION

PV-6





PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
 3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
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PROFESSIONAL ENGINEERING



MINA A. MAKAR, P.E. BY LICENSE # 104468 (732)-902-6224
 3096 HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080
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 FLORAL PARK, NY 11001
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JURISDICTION: NASSAU
 UTILITY: PSEGLI
 UTILITY ACCT #:
 UTILITY METER #:

PV SYSTEM INFORMATION

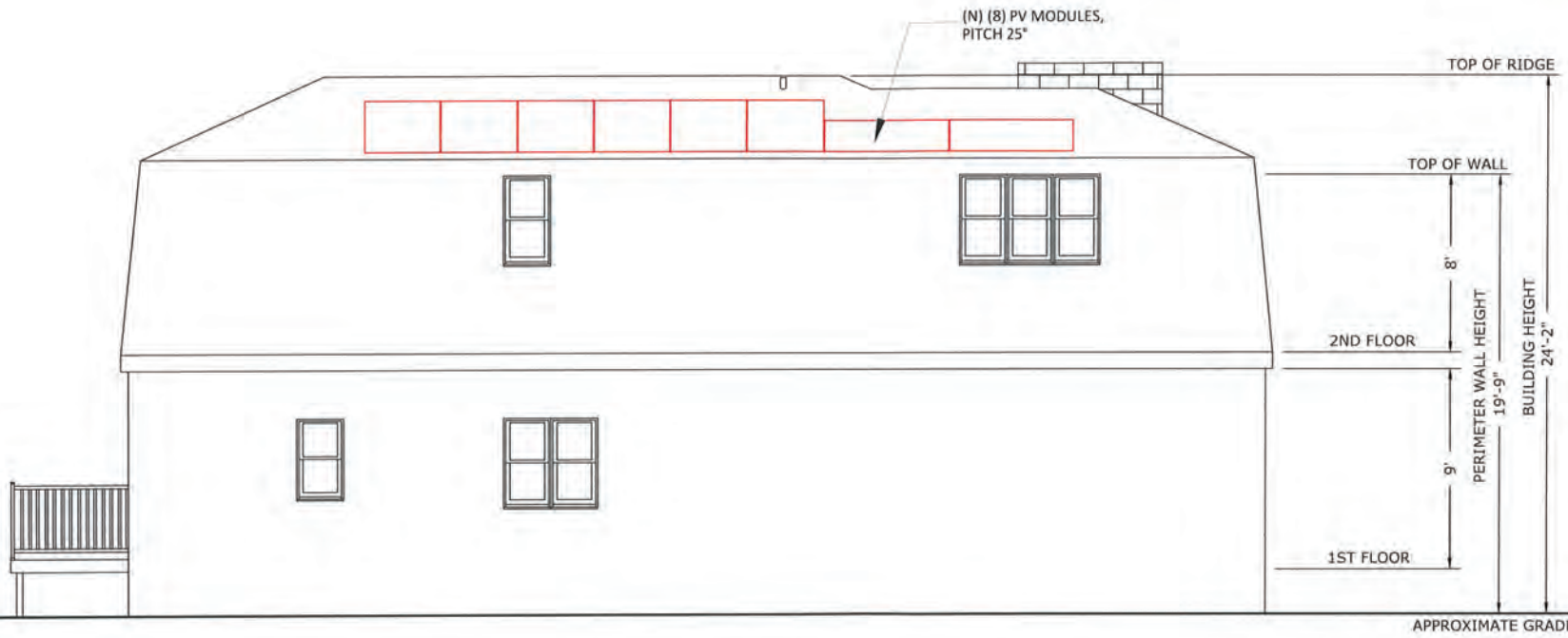
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 (SAFE HARBOR MODULES: 0)
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PROJECT INFORMATION

INITIAL	DATE: 8/25/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ELEVATION

PV-7



SOUTHEAST ELEVATION
SCALE: 3/16" = 1'-0"



FRONT OF HOUSE

PANELS CANNOT BE SEEN FROM FRONT OF HOUSE



REAR VIEW



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
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PROFESSIONAL ENGINEERING



MINA A. MAKAR, P.E. NY LICENSE # 104468 (132)-902-6224
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 (SAFE HARBOR MODULES: 0)
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PROJECT INFORMATION		
INITIAL	DATE: 8/25/2023	DESIGNER: NA
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REV:	DATE:	DESIGNER:

SUPERIMPOSED PHOTOS

PV-8



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
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PROFESSIONAL ENGINEERING



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PROJECT INFORMATION

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REV:	DATE:	DESIGNER:

SUPERIMPOSED PHOTOS

PV-9



SOUTHEAST VIEW



NORTHWEST VIEW



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 3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
 (732) 902-6224, MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732) 902-6224
 3096 HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080
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PROJECT INFORMATION		
INITIAL	DATE: 8/25/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

SUPERIMPOSED PANELS

PV-10

powered by
Q.ANTUM DUO Z

PRELIMINARY

Q.PEAK DUO BLK-G10+

350-370

ENDURING HIGH PERFORMANCE



BREAKING THE 20% EFFICIENCY BARRIER
Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.



THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY
Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry. The new "Quality Controlled PV" of the independent certification institute TUV Rheinland.



INNOVATIVE ALL-WEATHER TECHNOLOGY
Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



ENDURING HIGH PERFORMANCE
Long-term yield security with Anti-LID Technology, Anti-PID Technology, Hot-Spot Protect and Traceable Quality Tra Q™.



EXTREME WEATHER RATING
High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



A RELIABLE INVESTMENT
Inclusive 25-year product warranty and 25-year linear performance warranty¹⁾

¹⁾ LTP test conditions according to IEC 61215 & IEC 61730, method A, 1000V, 96 h.
See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:

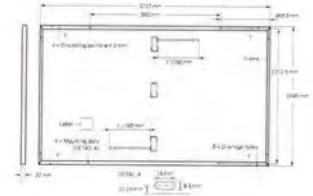


Engineered in Germany

Q CELLS

MECHANICAL SPECIFICATION

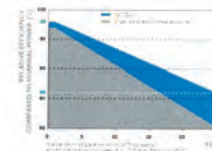
Format	1717mm x 1045mm x 30mm (including frame)
Weight	19.9kg
Front Cover	3.2mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 x 20 monocrystalline Q.ANTUM solar half cells
Junction box	53-113mm x 32-60mm x 15-16mm Protection class IP67, with bypass diodes
Cable	4x1mm ² Solar cable, (+)±150mm, (-)±125mm
Connector	Stäubli MCA, IP68



ELECTRICAL CHARACTERISTICS

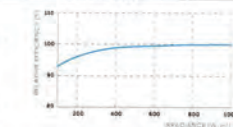
POWER CLASS		350	355	360	365	370	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE ±5W / -0.5V)							
Maximum	Power at MPV ¹⁾	P _{max} [W]	350	355	360	365	370
	Short Circuit Current	I _{sc} [A]	10.97	11.00	11.04	11.07	11.10
	Open Circuit Voltage	V _{oc} [V]	41.11	41.14	41.18	41.21	41.24
	Current at MPP	I _{mp} [A]	10.37	10.43	10.49	10.56	10.62
	Voltage at MPP	V _{mp} [V]	32.76	34.03	34.31	34.58	34.64
	Efficiency ²⁾	η [%]	>19.5	>19.8	>20.1	>20.3	>20.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT³⁾							
Minimum	Power at MPP	P _{max} [W]	262.6	266.3	270.1	273.8	277.6
	Short Circuit Current	I _{sc} [A]	8.64	8.87	8.89	8.92	8.95
	Open Circuit Voltage	V _{oc} [V]	36.77	38.20	38.63	38.86	38.90
	Current at MPP	I _{mp} [A]	8.14	8.20	8.26	8.31	8.37
	Voltage at MPP	V _{mp} [V]	32.24	32.48	32.71	32.94	33.17
Measurement tolerances P _{max} ±3% I _{sc} , V _{oc} ±5% at STC (1000W/m ² , 25±2°C, AM 1.5 according to IEC 60904-3 • 800W/m ² , NMOT ³⁾ ±1.5%							

Q CELLS PERFORMANCE WARRANTY



All data with measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organization of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{sc}	α [%/K]	+0.04	Temperature Coefficient of V _{oc}	β [%/K]	-0.27
Temperature Coefficient of P _{max}	γ [%/K]	-0.34	Nominal Module Operating Temperature	NMOT [°C]	43±3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V _{max} [V]	1000	PV module classification	Class II
Maximum Reverse Current	I _r [A]	20	Fire Rating based on ANSI / UL E1730	0 / TYPE 2
Max. Design Load, Push/Pull	[Pa]	2600/2660	Permitted Module Temperature at Continuous Duty	-40°C - +85°C
Max. Test Load, Push/Pull	[Pa]	5400/4200		

QUALIFICATIONS AND CERTIFICATES

Quality Controlled PV, TUV Rheinland
IEC 61215 2016, IEC 61730 2016
The partner comes
with DNV GL ISO 9000
GEP Certification logo



Note: Installer instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and site of this product.

Hanwha Q CELLS GmbH
Sommerallee 1, 701, 36766 Bielefeld-Wilster, Germany | TEL: +49 (0)3494 66 99-23444 | FAX: +49 (0)3494 66 99-23100 | EMAIL: sales@q-cells.com | WEB: www.q-cells.com

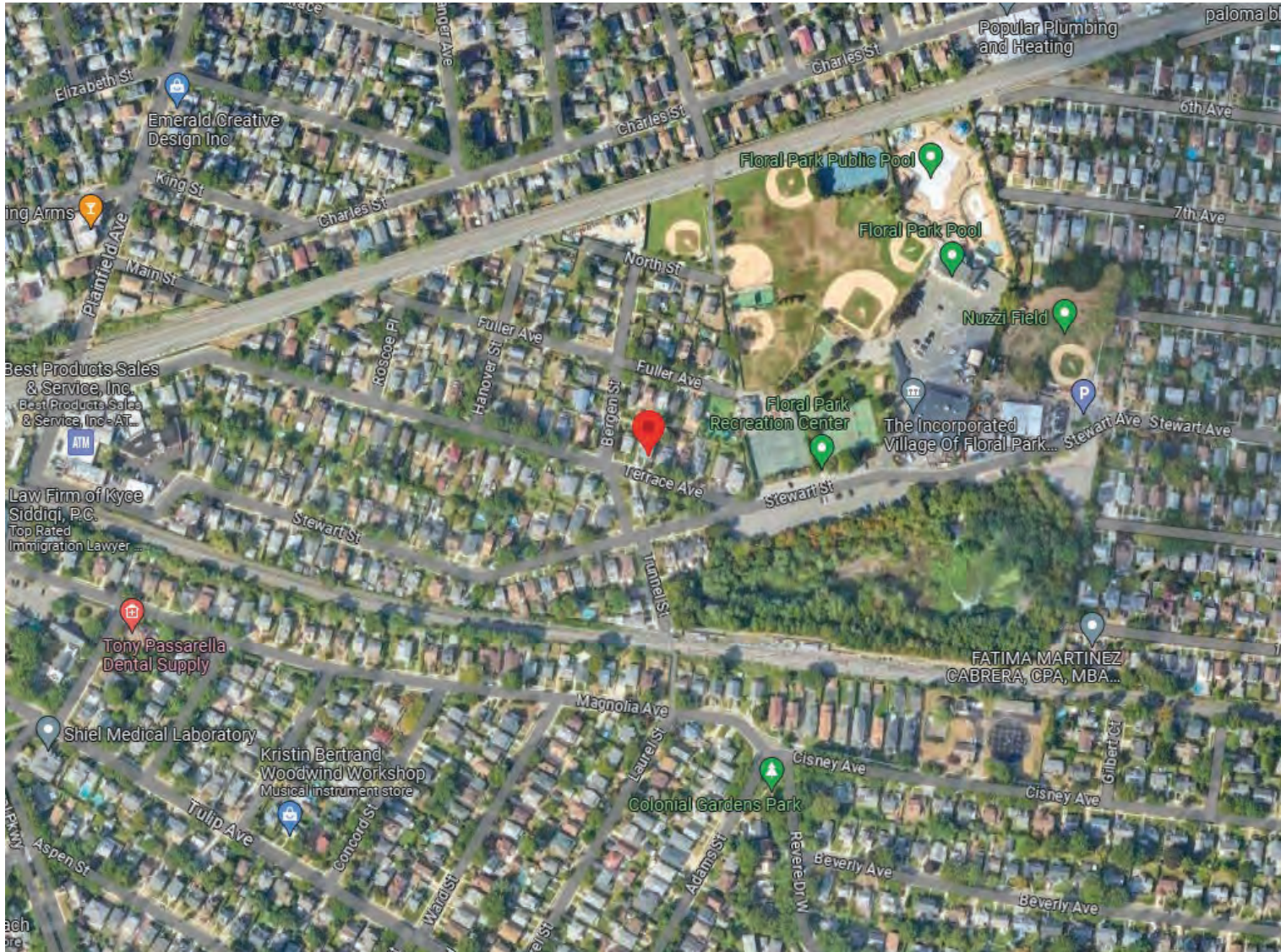
Engineered in Germany

Q CELLS

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
6	8:25 p.m.	101	Terrace Avenue	Exterior Alterations	Michael Sowinski	Mario R. Vergara Architect PC



101 Terrace Avenue (Aerial View)





101
TERRACE
AVE





97 TERRACE AVE



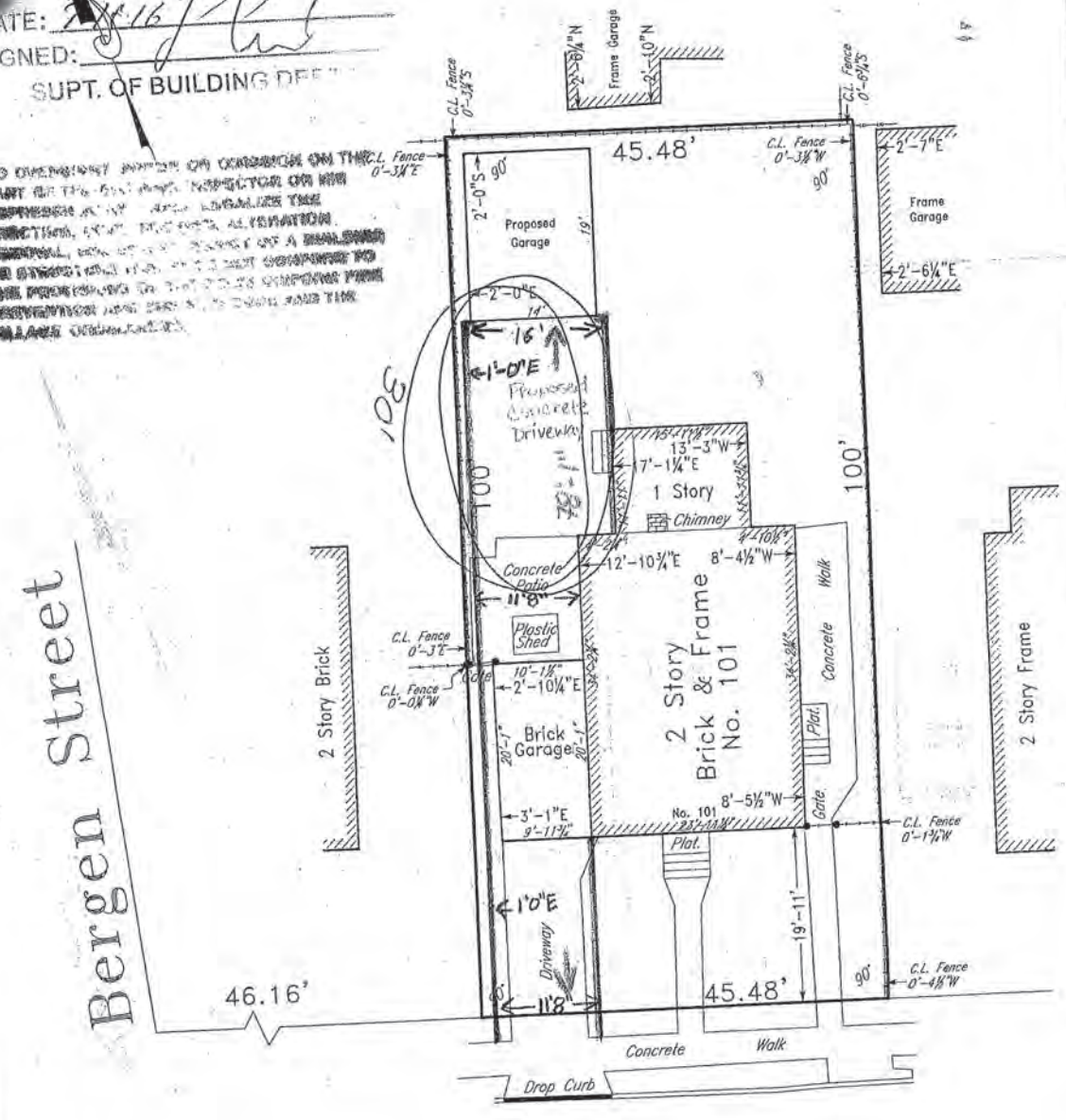
101 TERRACE AVE



111 KE 70000000
(516) 606-4715

REVIEWED AND ACCEPTED
FOR PERMIT
INC. VILLAGE OF FLORAL PARK
DATE: 4/16/16
SIGNED: [Signature]
Supt. of Building Dept.

NO OVERLAP OR INTERFERENCE ON THE PART OF THE SURVEYOR OR HIS ASSISTANTS IN ANY MANNER SHALL BE PERMITTED, AND THE SURVEYOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROPERTY AND THE PRESERVATION OF THE VILLAGE RECORDS.



Bergen Street

Terrace Avenue

RECEIVED
JUN 2 1 2016
Floral Park
City & Building



ERLANDSEN-CROWELL & SHAW
FOUNDED IN 1892 BY E.W. CONKLIN
Civil Engineers & City Surveyors
241 JERICHO TPKE NEW HYDE PARK, NY 11040 516-326-4353
718-526-0339

DATE: April 23, 2016

Floral Park, Nassau County
Tax Section 32 Block 113 Lot 318

Scale: 1"=16'

68981
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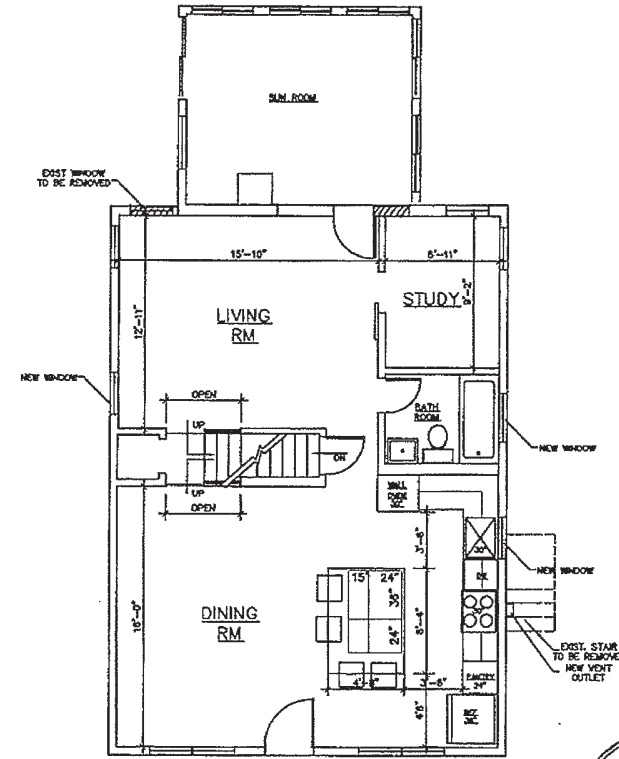
UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 2603 OF THE NEW YORK STATE EASEMENT LAW. THE ORIGINAL OF THIS SURVEY DRAWING WITH AN ORIGINAL OF THE LAND SURVEYOR'S PROFESSIONAL SEAL OR EMPLOYED SEAL SHALL BE CONSIDERED A VALID TRUE COPY. CERTIFICATIONS INDICATED HEREIN SHALL BE GIVEN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED AND ON HIS BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON, AND TO THE AGENTS OF THE LENDING INSTITUTION. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.



LEFT ELEVATION
SCALE: 1/8"=1'-0"



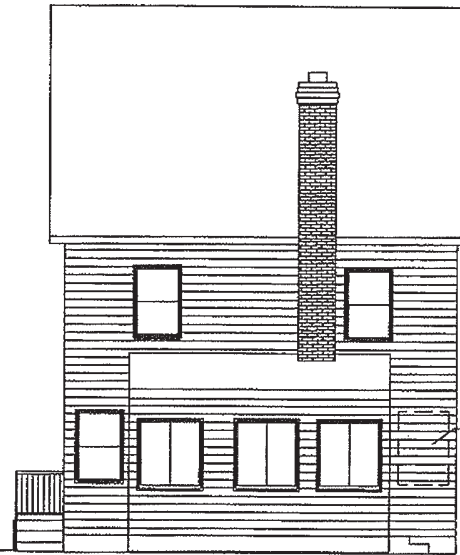
FRONT ELEVATION NO CHANGE
SCALE: 3/8"=1'-0"



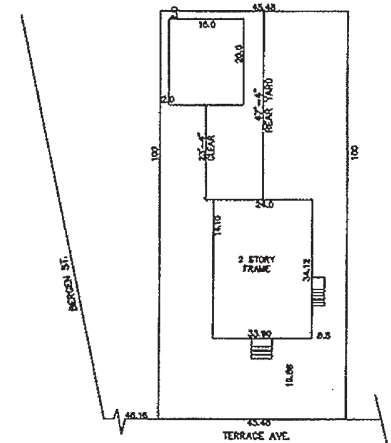
FIRST FLOOR PLAN
SCALE: 3/8"=1'-0"



RIGHT ELEVATION
SCALE: 1/8"=1'-0"



REAR ELEVATION
SCALE: 1/8"=1'-0"



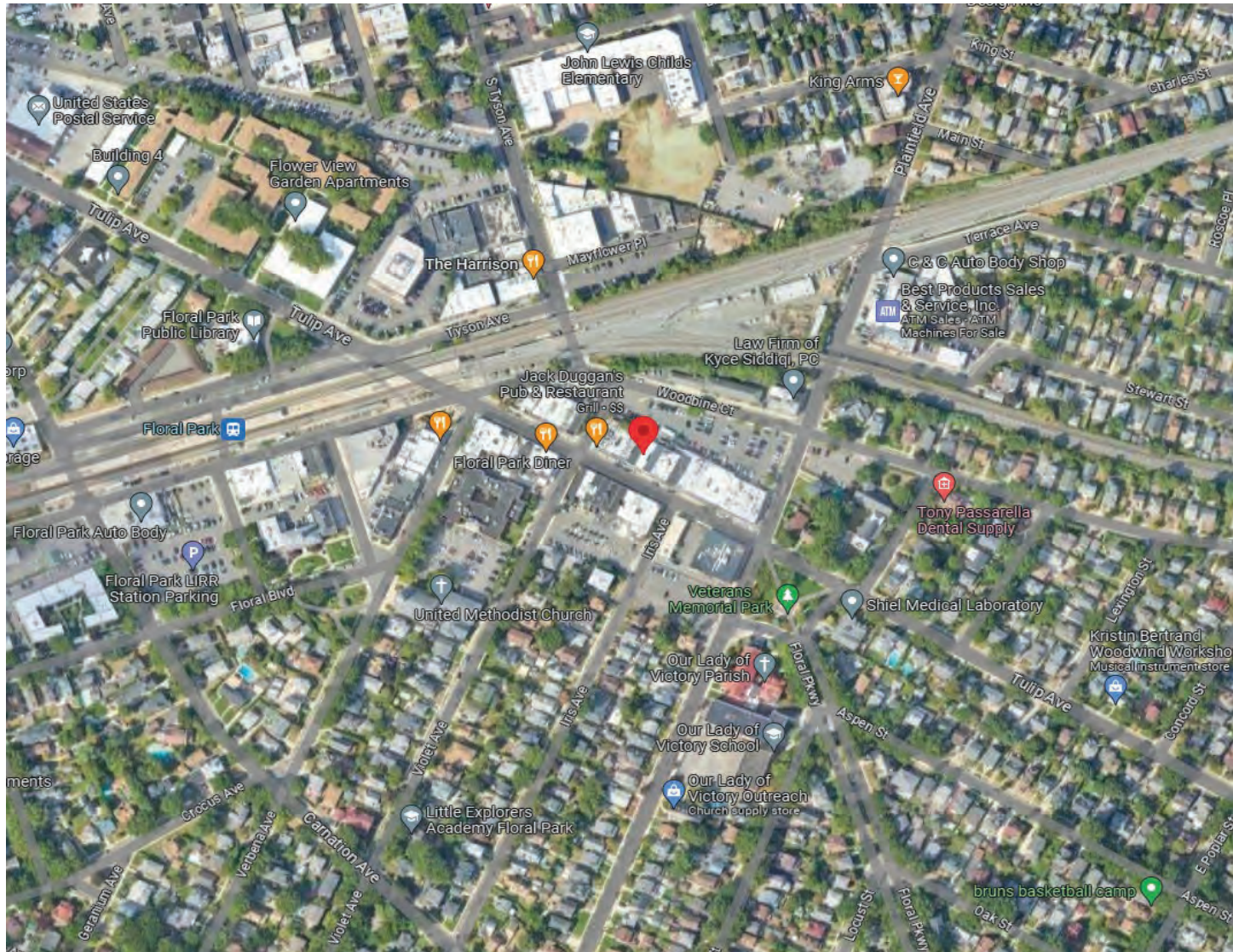
SITE PLAN



Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
7	8:30 p.m.	153	Tulip Avenue	2 Signs and Storefront	James Murphy	Graphic Reproduction South



153 Tulip Avenue (Aerial View)



CLIENT

Häagen-Dazs

PROJECT

Floral Park

Floral Park NY

CREATED 8.31.23 PROJECT NUMBER: FP83123

Häagen-Dazs

Location Signage Package

FLORAL PARK
153 TULIP AVE
FLORAL PARK, NY 11001



Graphic Reproduction South
Miami / Fort Lauderdale / West Palm Beach
561.396.5340
www.GRSouth.net

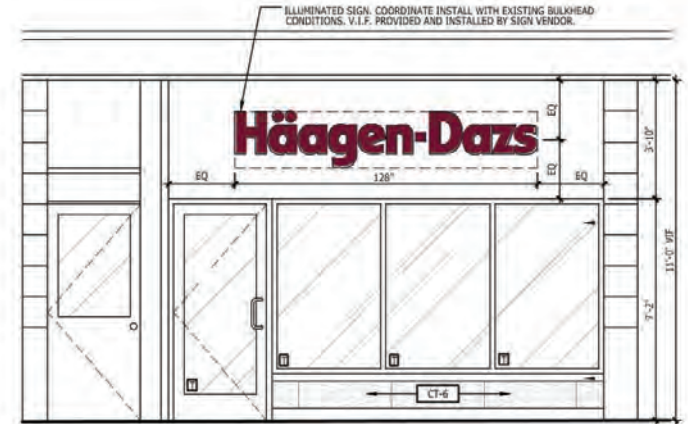
ARCHITECTURAL SIGNAGE & GRAPHICS

REP: Ken King | Designer: MP

SIGN TYPE: EX.1 | PRIMARY ID FRONT



DIMENSIONS TO BE VERIFIED BY CUSTOMER BEFORE CONSTRUCTION WILL BEGIN



1 PRIMARY ID
SCALE: NTS
QTY 1

ILLUMINATED SIDE LIT TRIMLESS LETTERS
ALUMINUM FACE BURGANDY
RETURNS 3" WHITE ACRYLIC
ILLUMINATED WITH WHITE LED
FLUSH MOUNT TO BACKER

○ WHITE

● PMS 7421C

BACKER PANEL 2" CONTOUR CUT
CABINET COLOR: WHITE



- BURGUNDY ALUMINUM FACE
- TRIMLESS FACE
- WHITE ACRYLIC RETURN

2 PRIMARY ID 3-D FRONT
SCALE: NTS



2 EXTERIOR ELEVATION
SCALE: NTS

SIGN TYPE: EX.1 | PRIMARY ID REAR



DIMENSIONS TO BE VERIFIED BY CUSTOMER BEFORE CONSTRUCTION WILL BEGIN

1 PRIMARY ID
SCALE: NTS
QTY 1

○ WHITE

● PMS 7421C

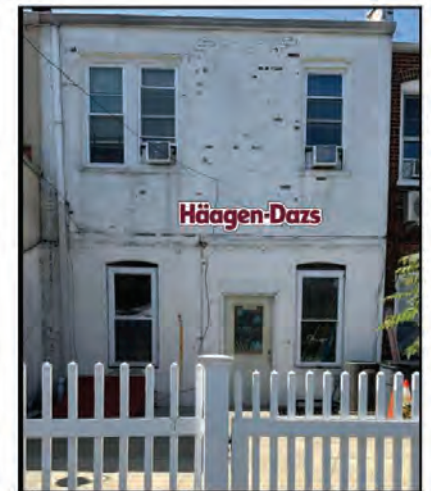
ILLUMINATED SIDE LIT TRIMLESS LETTERS
ALUMINUM FACE BURGANDY
RETURNS 3" WHITE ACRYLIC
ILLUMINATED WITH WHITE LED
FLUSH MOUNT TO BACKER

BACKER PANEL 2" CONTOUR CUT
CABINET COLOR: WHITE



- BURGUNDY ALUMINUM FACE
- TRIMLESS FACE
- WHITE ACRYLIC RETURN

2 PRIMARY ID 3-D FRONT
SCALE: NTS

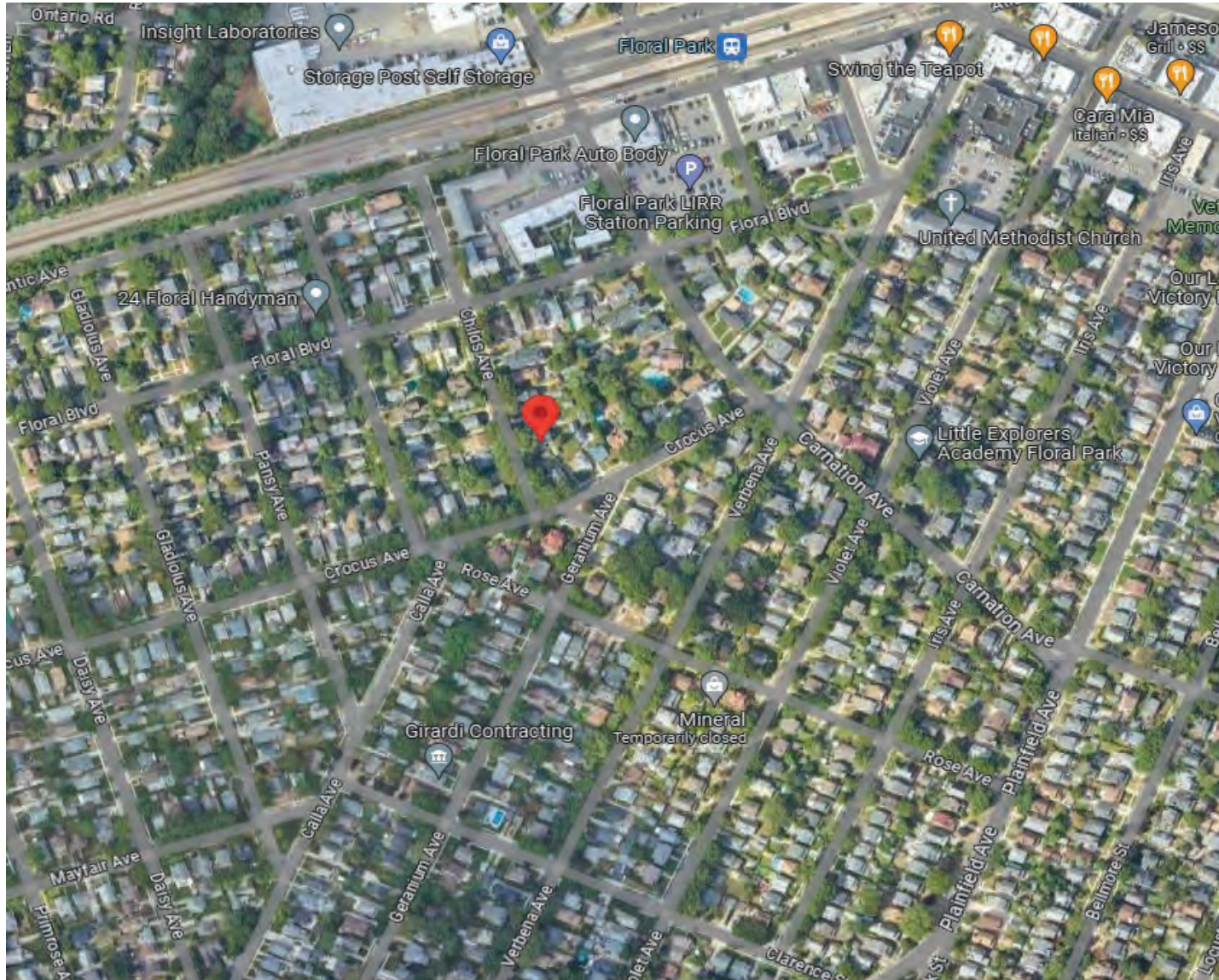


2 EXTERIOR ELEVATION
SCALE: NTS

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
8	8:35 p.m.	43	Childs Avenue	Resubmission: Roof Over Front Steps	Krunal Patel	Christopher Dowdell



43 Childs Avenue (Aerial View)



CHILDS AVENUE

CONSTRUCT ONE STORY OPEN FRAME PORTICO

BRICK PAVERS AT GRADE

FRONT YARD SETBACK
20'-0"

REAR YARD SETBACK
30'-0"

100.0'

5'-0"
SIDE YARD SETBACK

53.95'

15.78' TO PORTICO

29.76'

10'-0"
SIDE YARD SETBACK

CONCRETE DRIVEWAY

GARAGE

CONCRETE PATIO AT GRADE

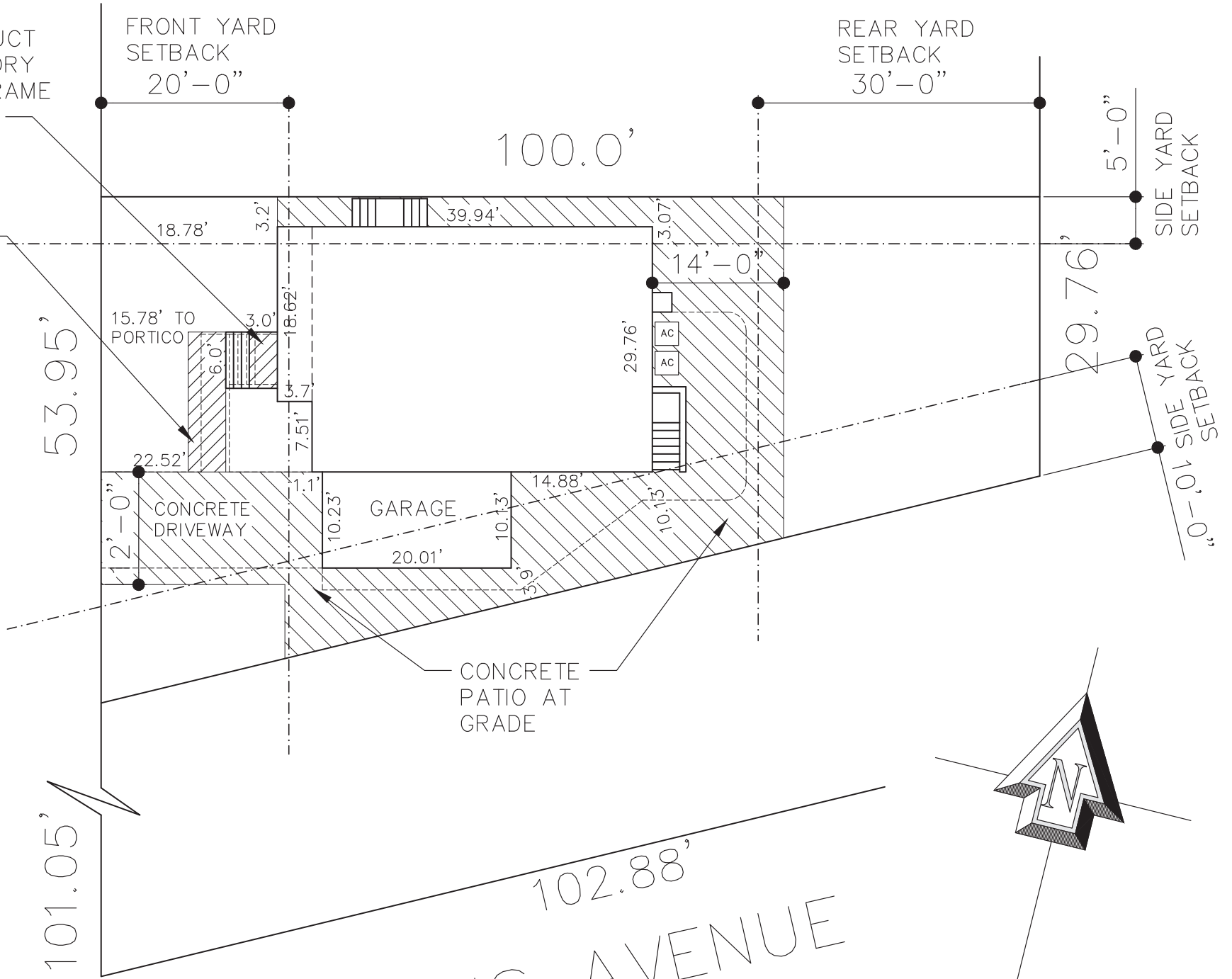
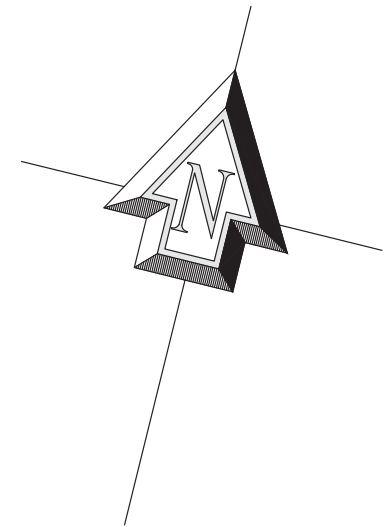
101.05'

102.88'

CROCUS AVENUE

SITE PLAN

SCALE: 1" = 10'-0"



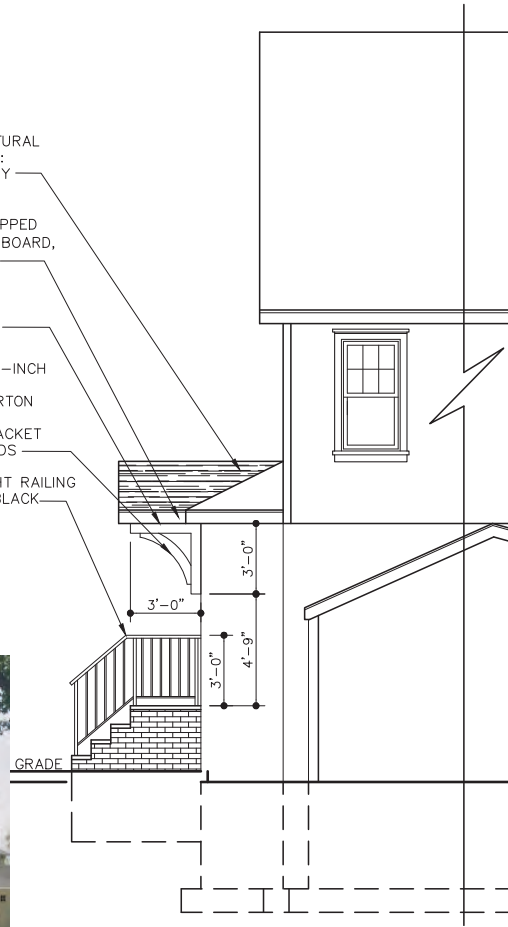


WEST ELEVATION

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

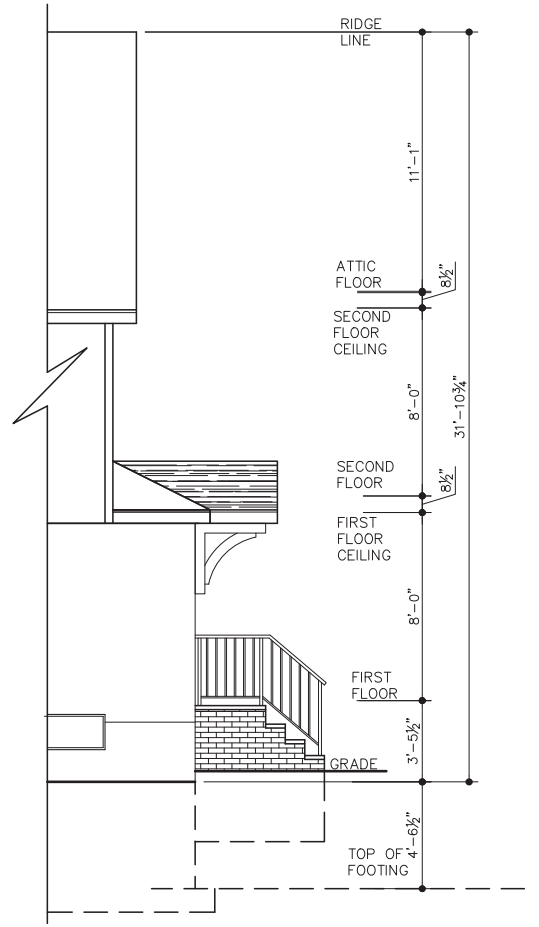


- ROOFING:
GAF ARCHITECTURAL
STYLE ROOFING:
CHARCOAL GREY
- FASCIA:
ALUMINUM WRAPPED
1" X 8" WOOD BOARD,
COLOR: WHITE
- SOFFITS:
VINYL, CENTER
VENTED SOFFIT,
WHITE
- 5-INCH W X 36-INCH
D X 36-INCH H
STANDARD THORTON
ARCHITECTURAL
GRADE PVC BRACKET
WITH BLOCK ENDS
- 3/4" X 3/4" WROUGHT RAILING
IRON PAINTED BLACK



SOUTH ELEVATION

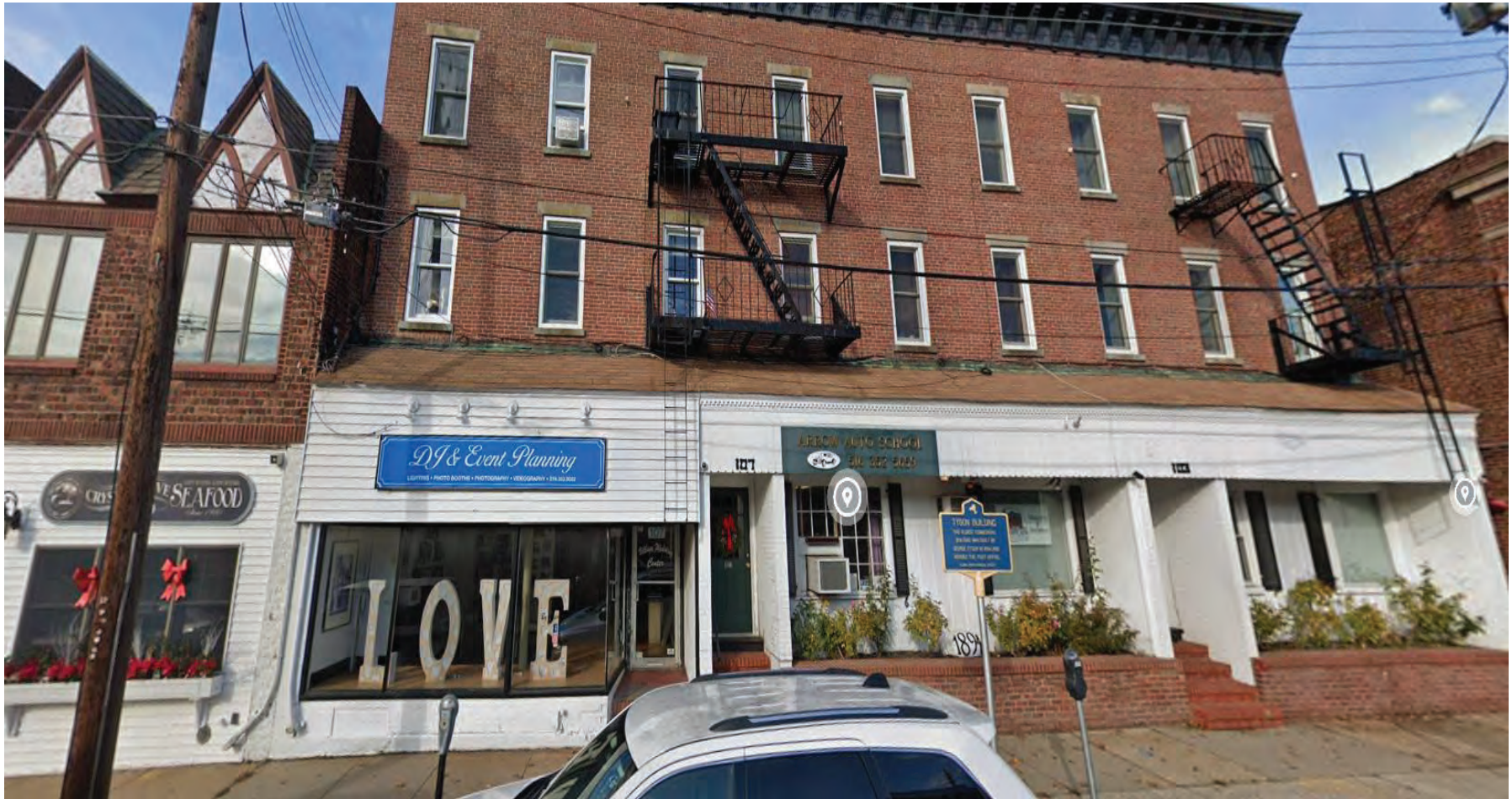
SCALE: 1/4" = 1'-0"



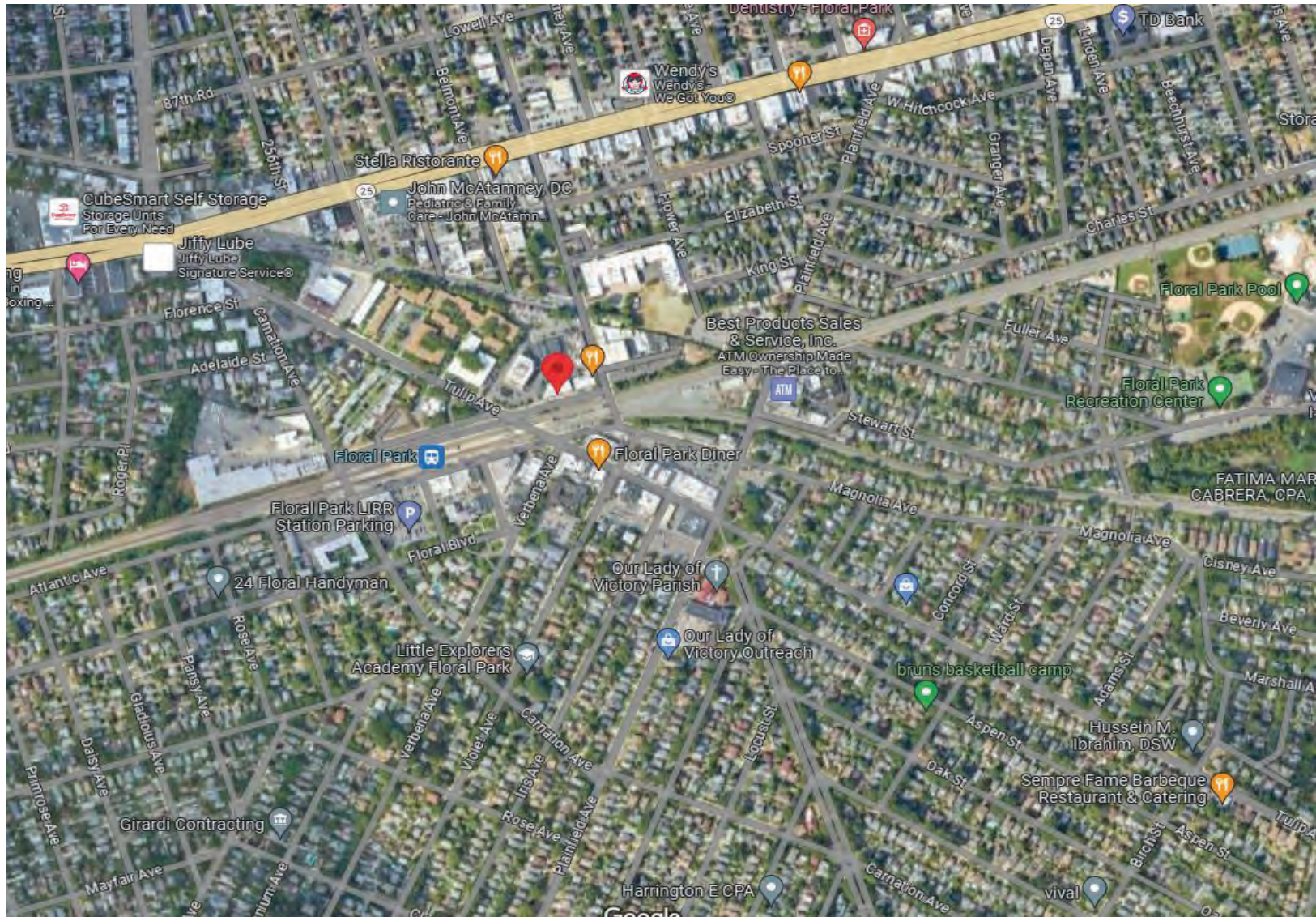
NORTH ELEVATION

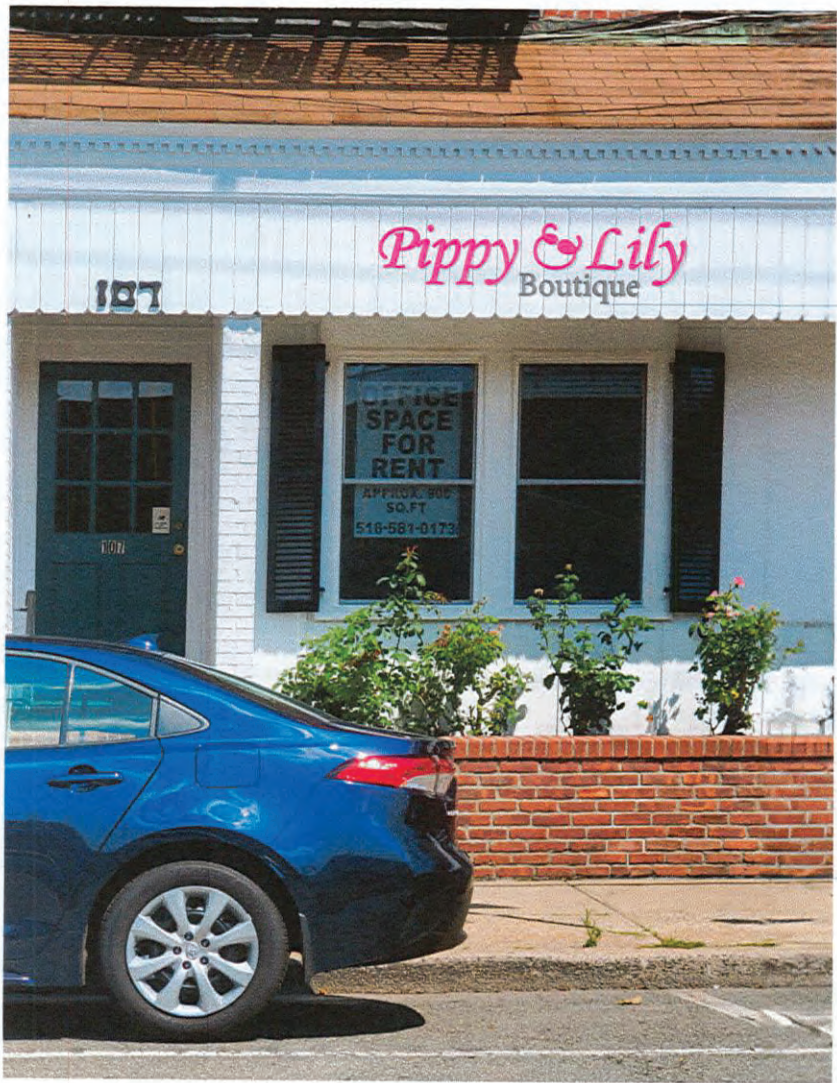
SCALE: 1/4" = 1'-0"

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
9	8:40 p.m.	107	South Tyson Avenue	Sign	Anita Manfredonia	Millenium Signs & Display



107 South Tyson Avenue (Aerial View)





OPTION A



DIMENSIONAL LOGO SIGNAGE (NON-ILLUMINATED)
 PAINTED GLOSSY FINISH
 PIN MOUNTED



MILLENNIUM
 SIGNS & DISPLAY, INC.

PROJECT NAME:

PIPPY & LILY BOUTIQUE : SIGNAGE

Location:

Project Manager: Saj Khalifa

Designer: Avin Rangopoul

Drawing No. 1

Revision No.

Date: 09/18/2023

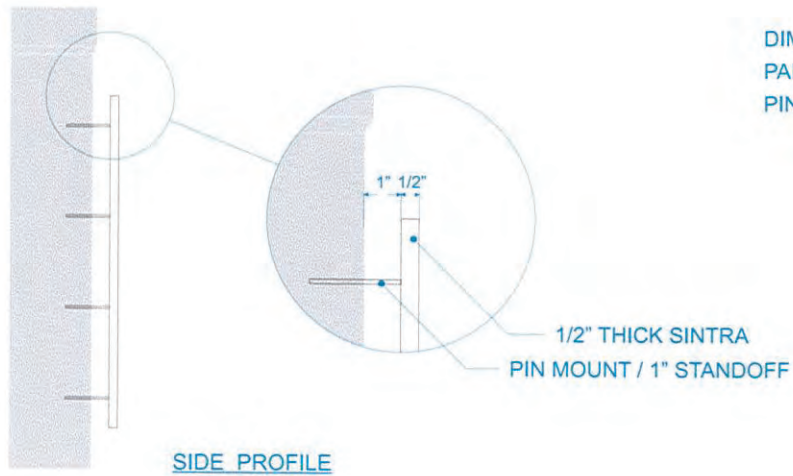
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Page

1

ALL DIMENSIONS ARE APPROVED FOR PRODUCTION. ANY CHANGES OR ALTERATIONS WILL INITIATE AN ADDITIONAL CHARGE.

OPTION A



DIMENSIONAL LOGO SIGNAGE (NON-ILLUMINATED)
 PAINTED GLOSSY FINISH
 PIN MOUNTED

SIDE PROFILE