

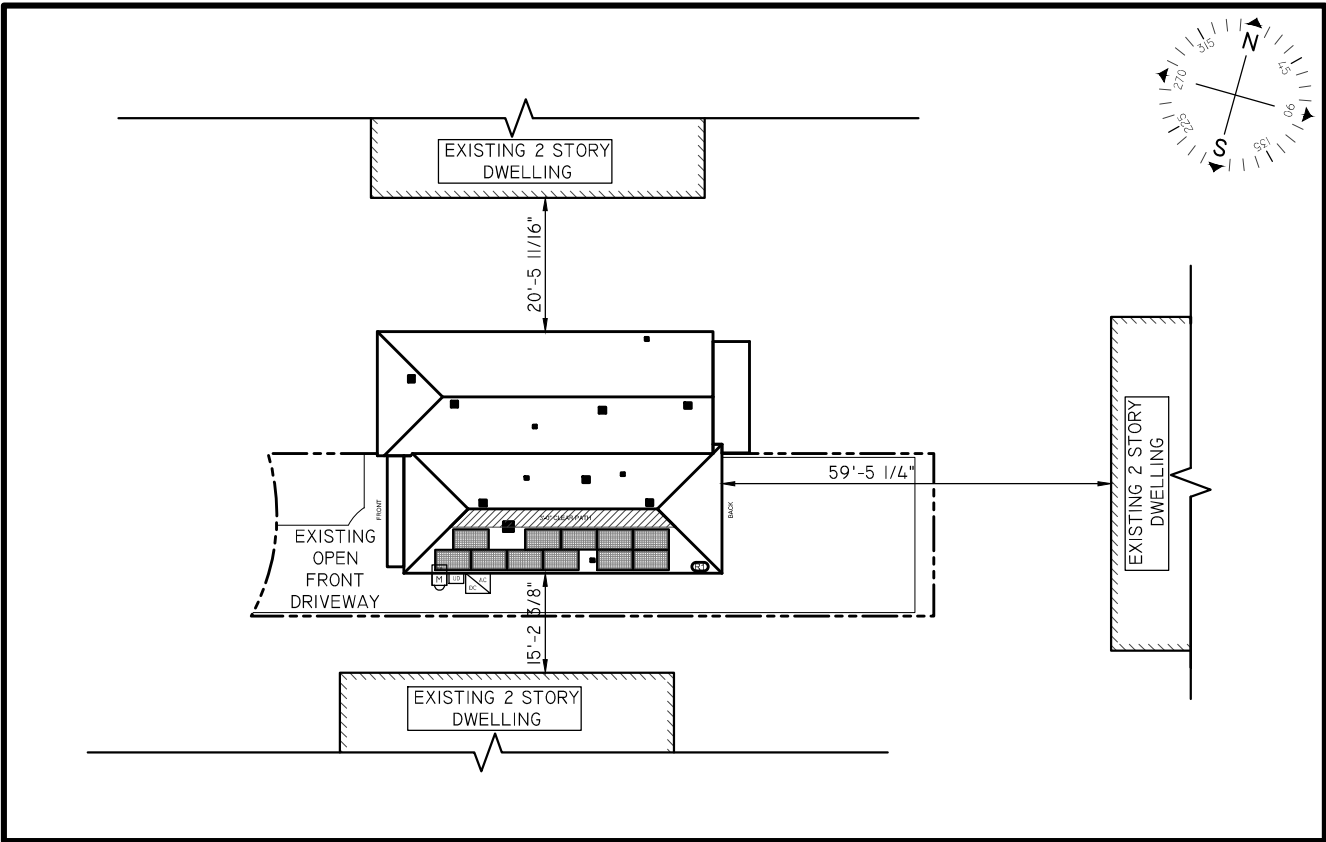
INSTALLATION OF NEW  
ROOF MOUNTED PV SOLAR SYSTEM  
23 N EDO COURT  
STATES ISLAND, NY 10309



VICINITY MAP  
SCALE: NTS



SATELLITE VIEW



LOT DIAGRAM  
SCALE: 1"=350'

GENERAL NOTES

1. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTIONS CONTAINED IN THE DRAWING PACKAGE AND INFORMATION RECEIVED FROM TRINITY.
2. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTION CONTAINED IN THE COMPLETE MANUAL.
3. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING ALL DRAWINGS, COMPONENT AND INVERTER MANUALS PRIOR TO INSTALLATION. THE INSTALLATION CONTRACTOR IS ALSO REQUIRED TO HAVE ALL COMPONENT SWITCHES IN THE OFF POSITION AND FUSES REMOVED PRIOR TO THE INSTALLATION OF ALL FUSE BEARING SYSTEM COMPONENTS.
4. ONCE THE PHOTOVOLTAIC MODULES ARE MOUNTED, THE INSTALLATION CONTRACTOR SHOULD HAVE A MINIMUM OF ONE ELECTRICIAN WHO HAS ATTENDED A SOLAR PHOTOVOLTAIC INSTALLATION COURSE ON SITE.
5. FOR SAFETY, IT IS RECOMMENDED THAT THE INSTALLATION CREW ALWAYS HAVE A MINIMUM OF TWO PERSONS WORKING TOGETHER AND THAT EACH OF THE INSTALLATION CREW MEMBERS BE TRAINED IN FIRST AID AND CPR.
6. THIS SOLAR PHOTOVOLTAIC SYSTEM IS TO BE INSTALLED FOLLOWING THE CONVENTIONS OF THE NATIONAL ELECTRICAL CODE. ANY LOCAL CODE WHICH MAY SUPERSEDE THE NEC SHALL GOVERN.
7. ALL SYSTEM COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE "UL" LISTED. ALL EQUIPMENT WILL BE NEMA 3R OUTDOOR RATED UNLESS INDOORS.

GENERAL NOTES CONTINUED

8. THE DC VOLTAGE FROM THE PANELS IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. ALL PERSONS WORKING ON OR INVOLVED WITH THE PHOTOVOLTAIC SYSTEM ARE WARNED THAT THE SOLAR MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT.
9. ALL PORTIONS OF THIS SOLAR PHOTOVOLTAIC SYSTEM SHALL BE MARKED CLEARLY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 690 & 705.
10. PRIOR TO THE INSTALLATION OF THIS PHOTOVOLTAIC SYSTEM, THE INSTALLATION CONTRACTOR SHALL ATTEND A PRE-INSTALLATION MEETING FOR THE REVIEW OF THE INSTALLATION PROCEDURES, SCHEDULES, SAFETY AND COORDINATION.
11. PRIOR TO THE SYSTEM START UP THE INSTALLATION CONTRACTOR SHALL ASSIST IN PERFORMING ALL INITIAL HARDWARE CHECKS AND DC WIRING CONDUCTIVITY CHECKS.
12. FOR THE PROPER MAINTENANCE AND ISOLATION OF THE INVERTERS REFER TO THE ISOLATION PROCEDURES IN THE OPERATION MANUAL.
13. THE LOCATION OF PROPOSED ELECTRIC AND TELEPHONE UTILITIES ARE SUBJECT TO FINAL APPROVAL OF THE APPROPRIATE UTILITY COMPANIES AND OWNERS.
14. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
  - A) CURRENT PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS AND REQUIREMENTS

GENERAL NOTES CONTINUED

14. B) CURRENT PREVAILING UTILITY COMPANY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS
15. THIS SET OF PLANS HAVE BEEN PREPARED FOR THE PURPOSE OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DRAWINGS UNTIL REVISED TO INDICATE "ISSUED FOR CONSTRUCTION".
16. ALL INFORMATION SHOWN MUST BE CERTIFIED PRIOR TO USE FOR CONSTRUCTION ACTIVITIES.

NOTES

1. PV INSTALLATION TO COMPLY WITH ARTICLE 690 OF THE NEC.
2. PV INSTALLATION TO COMPLY WITH NYSEDA REQUIREMENTS.
3. PV INSTALLATION TO COMPLY WITH NEW YORK STAT STANDARDIZED INTERCONNECTION REQUIREMENTS.

2008 NOTES

1. PV INSTALLATION TO COMPLY WITH NYC ELECTRIC CODE 2011.

PLAN NOTES

1. SCOPE OF WORK IS SOLEY 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 DOB

SPECIAL INSPECTIONS:

- STRUCTURAL  
STABILITY  
FIRE STOP  
PROGRESS INSPECTIONS:  
ENERGY CODE  
COMPLIANCE  
FINAL INSPECTION  
VISUAL AIR SEALING

TENANT SAFETY NOTES

1. CONSTRUCTION WORK WILL BE CONFINED TO THE ROOF / OUTSIDE & WILL NOT CREATE DUST, DIRT OR OTHER INCONVENIENCES TO NEIGHBORING PROPERTIES OR APARTMENT UNITS WITHIN THE BUILDING.
2. CONSTRUCTION WORK WILL NOT BLOCK HALLWAYS OR MEANS OF EGRESS FOR NEIGHBORING PROPERTIES OR TENANTS OF THE BUILDING.
3. CONSTRUCTION WORK WILL NOT INVOLVE INTERRUPTION OF HEATING, WATER OR ELECTRIC SERVICES TO NEIGHBORING PROPERTIES OR TENANTS OF THE BUILDING.
4. CONSTRUCTION WORK WILL BE CONFINED TO NORMAL WORKING HOURS, 8AM - 5PM MONDAY THRU FRIDAY EXCEPT LEGAL HOLIDAYS.

TENANT PROTECTION PLAN

SPECIAL PRECAUTION SHALL BE TAKEN BY THE CONTRACTOR SO THAT EQUIPMENT ON THIS APPLICATION AND ITS INSTALLATION WILL NOT AFFECT THE FOLLOWING:

- A. TENANT EGRESS TO AND FROM THE BUILDING.
- B. FIRE SAFETY, OR CREATE A FIRE HAZARD.
- C. STRUCTURAL SAFETY OF THE BUILDING
- D. ACCUMULATION OF DUST. THE CONTRACTOR SHALL LEAVE THE WORK SITE BROOM CLEAN EACH DAY. IN THE EVENT THAT ASBESTOS IS FOUND ON THE JOBSITE, ITS REMOVAL SHALL TAKE PLACE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS OF O.S.H.A SECTION 1901.1, INCLUDING STAT AND FEDERAL DUMPING GROUNDS
- E. THERE SHALL BE NO CREATION OF NOISE OUTSIDE THE NORMAL HOURS OF 8AM TO 5PM MONDAY THRU FRIDAY EXCEPT LEGAL HOLIDAYS

ABBREVIATIONS

AMP	AMPERE
AC	ALTERNATING CURRENT
AL	ALUMINUM
AF	AMP. FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT ( GENERIC TERM OF SPECIFIED)
CB	COMBINER BOX
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT SWITCH
DWG	DRAWING
EC	ELECTRICAL SYSTEM INSTALLER
EMT	ELECTRICAL METALLIC TUBING
FS	FUSIBLE SWITCH
FU	FUSE
GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HZ	FREQUENCY (CYCLES PER SECOND)

ABBREVIATIONS CONTINUED

JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
kVA	KILO-VOLT AMPERE
KW	KILO-WATT
KWH	KILO-WATT HOUR
L	LINE
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MTD	MOUNTED
MTG	MOUNTING
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO #	NUMBER
NTS	NOT TO SCALE
OCP	OVER CURRENT PROTECTION
P	POLE
PB	PULL BOX
PH Ø	PHASE
PVC	POLY-VINYL CHLORIDE CONDUIT
PWR	POWER
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
SN	SOLID NEUTRAL

ABBREVIATIONS CONTINUED

JSWBD	SWITCHBOARD
TYP	TYPICAL
U.O.I.	UNLESS OTHERWISE INDICATED
WP	WEATHERPROOF
XFMR	TRANSFORMER
+72	MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE

DRAWING INDEX

T- 001.00 -	COVER SHEET
S- 001.00 -	ROOF LAYOUT
S- 002.00 -	ELEVATION DRAWING
S- 003.00 -	ELEVATION DRAWING
S- 004.00 -	ELEVATION DRAWING
E- 001.00 -	ELECTRICAL 3-LINE DRAWING
APP	APPENDIX

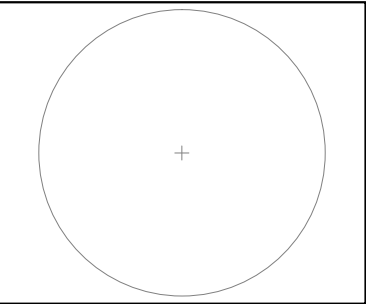
DEPARTMENT OF BUILDING NOTES

NYC FC504 EXEMPT - PITCH GREATER THAN 5/12  
BC 109.3.3  
RCNY 5000-01 (H) (IA6) IIA6)  
28-116.2.4.2 AND DIRECTIVE 14 OF 1975  
RCNY 101-10

PLAN NOTES

1. SCOPE OF WORK IS SOLEY 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 DOB

\* THE WORK PROPOSED IN THIS APPLICATION IS COMPLIANT WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY  
\* TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY 2010



Issued / Revisions		
P1	ISSUED TO TOWNSHIP FOR PERMIT	1/23/2018
NO.	DESCRIPTION	DATE

Project Title:  
  
CAPPELLO, JAIME  
TRINITY ACCT #: 2017-11-210166

Project Address:  
  
23 N EDO COURT  
STATES ISLAND, NY 10309  
40.546396,-74.215245

Drawing Title:  
  
COVER SHEET

Drawing Information	
DRAWING DATE:	1/23/2018
DRAWN BY:	JC
REVISED BY:	

System Information:	
DC SYSTEM SIZE:	3.245kW
AC SYSTEM SIZE:	3kW
TOTAL MODULE COUNT:	11
MODULES USED:	HANWHA 295
MODULE SPEC #:	Q.PEAK-BLK G4.1 295
UTILITY COMPANY:	CON EDISON
UTILITY ACCT #:	7011 806 0230 0032
UTILITY METER #:	9077378
DEAL TYPE:	SUNRUN

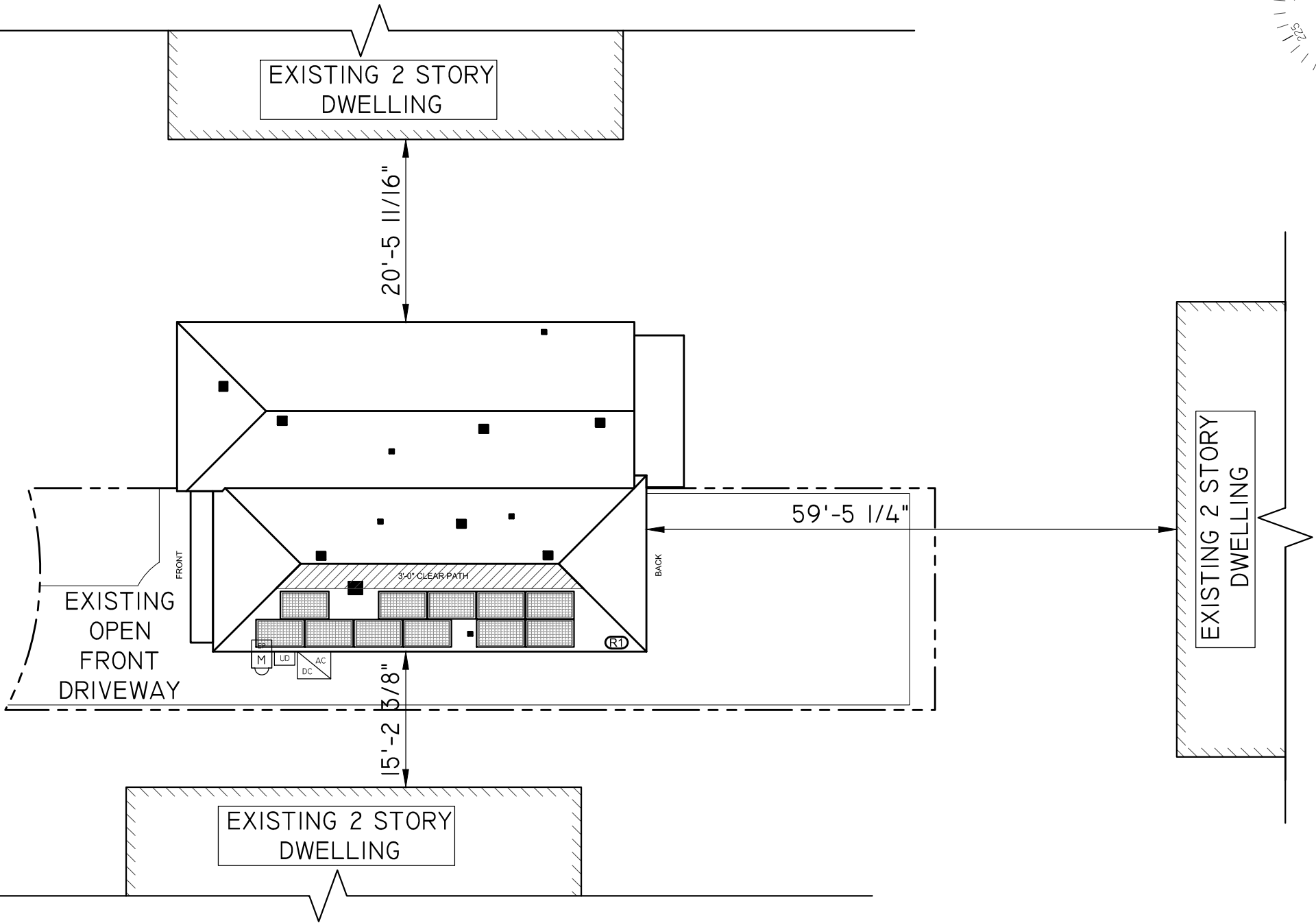
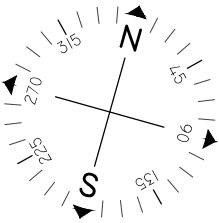
DWG No:  
**T-001.00**  
PAGE: 1 OF 5



2211 Allenwood Road  
Wall, New Jersey 07719  
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NYC DEPT OF BUILDING APPROVAL STAMP

SIZE OF EXISTING RAFTER: 2" x 6"  
RAFTER SPACING: 16" o.c.  
ROOF PITCH R1: 23° (ASPHALT SHINGLE)  
ADDITIONAL SUPPORT PROVIDED: NO  
THE EXISTING ROOF RAFTERS AT THIS  
RESIDENCE CAN ADEQUATELY SUPPORT  
THE PROPOSED SOLAR PV PANEL  
ASSEMBLY (4.3 LBS. PSF) AND THE  
SNOW LOADS (16 LBS. PSF). IN  
ADDITION, THE 3" STAINLESS STEEL  
LAG SCREWS INSTALLED AT 4' o.c. MEET  
THE UPLIFT REQUIREMENTS OF 4 SCREW  
MINIMUM PER ASSEMBLY, 6 SCREWS ARE  
PROVIDED. THIS INSTALLATION MEETS  
THE REQUIREMENTS OF THE RESIDENTIAL  
CODE OF NEW YORK STATE AND HAS  
BEEN FOUND TO BE ACCEPTABLE BY MY  
OFFICE.



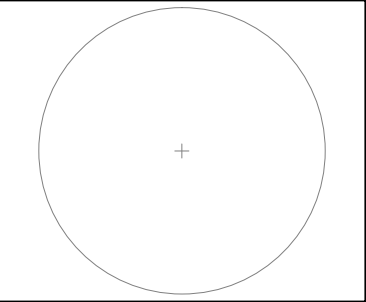
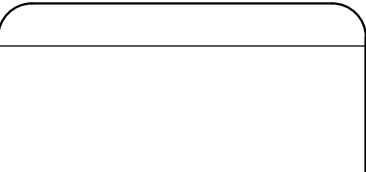
NOTES:

- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2.) ARRAY BONDING TO COMPLY WITH MANUFACTURER SPECIFICATION.
- 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
- 4.) AN AC DISCONNECT SHALL BE GROUPED WITH INVERTER (S) NEC 690.13 (E).
- 5.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN TIGHT WITH MINIMUM NEMA 3R RATING.
- 6.) ROOFTOP SOLAR INSTALLATION ONLY PV ARRAY SHALL NOT EXTEND BEYOND THE EXISTING ROOF EDGE.

PLAN NOTES

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ARRAY SCHEDULE		SYMBOL LEGEND		PLUMBING SCHEDULE	EQUIPMENT SCHEDULE	
R1	ARRAY ORIENTATION = 165° MODULE PITCH = 23°	INDICATES ROOF DESIGNATION . REFER TO ARRAY SCHEDULE FOR MORE INFORMATION	INDICATES NEW UTILITY DISCONNECT TO BE INSTALLED OUTSIDE		QTY	SPEC #
		INDICATES EXISTING METER LOCATION	INDICATES NEW PV SUBPANEL TO BE INSTALLED		11	HANWHA 295 (Q.PEAK-BLK G4.1
		INDICATES EXISTING ELECTRICAL PANEL LOCATION: IN BASEMENT	INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.		1	SE3000H-US000NNC2
		INDICATES NEW MAIN DISCONNECT	INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS.			



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CAPPELO, JAIME

TRINITY ACCT #: 2017-11-210166

Project Address:

23 N EDO COURT  
STATES ISLAND, NY 10309  
40.546396,-74.215245

Drawing Title:

ROOF LAYOUT

Drawing Information

DRAWING DATE:	1/23/2018
DRAWN BY:	JC
REVISED BY:	

System Information:

DC SYSTEM SIZE:	3.245kW
AC SYSTEM SIZE:	3kW
TOTAL MODULE COUNT:	11
MODULES USED:	HANWHA 295
MODULE SPEC #:	Q.PEAK-BLK G4.1 295
UTILITY COMPANY:	CON EDISON
UTILITY ACCT #:	7011 806 0230 0032
UTILITY METER #:	9077378
DEAL TYPE:	SUNRUN

DWG No.

S-001.00

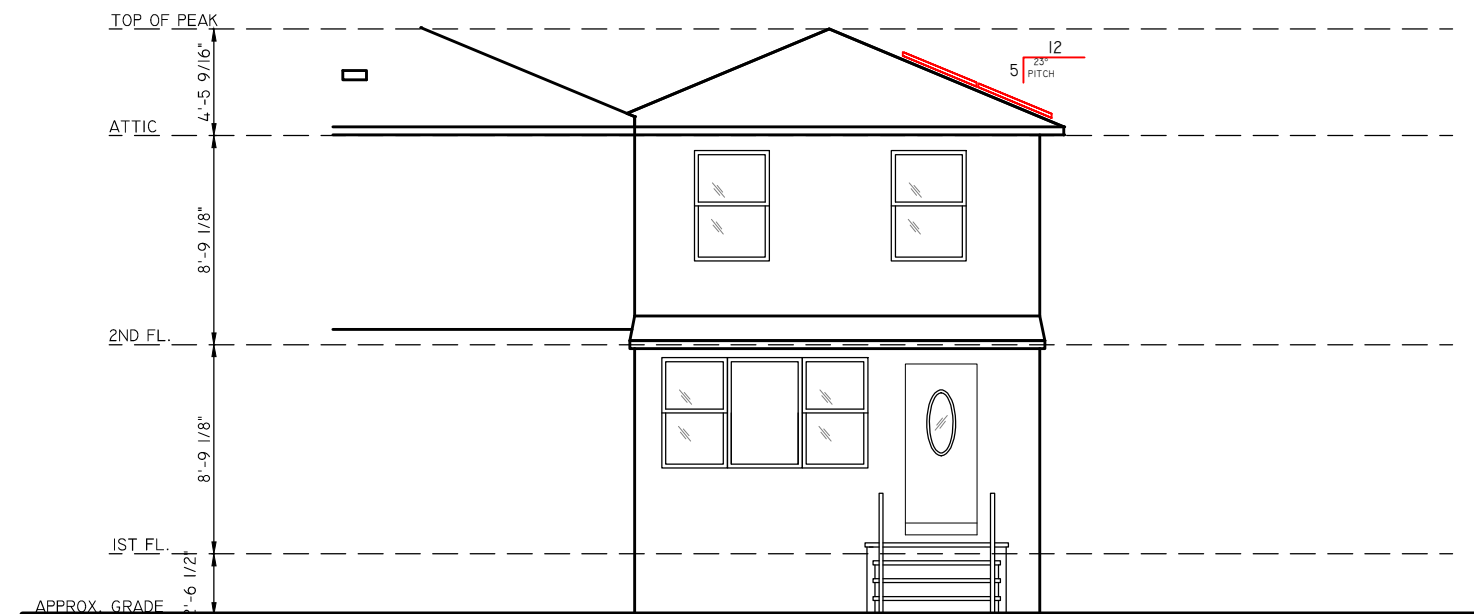
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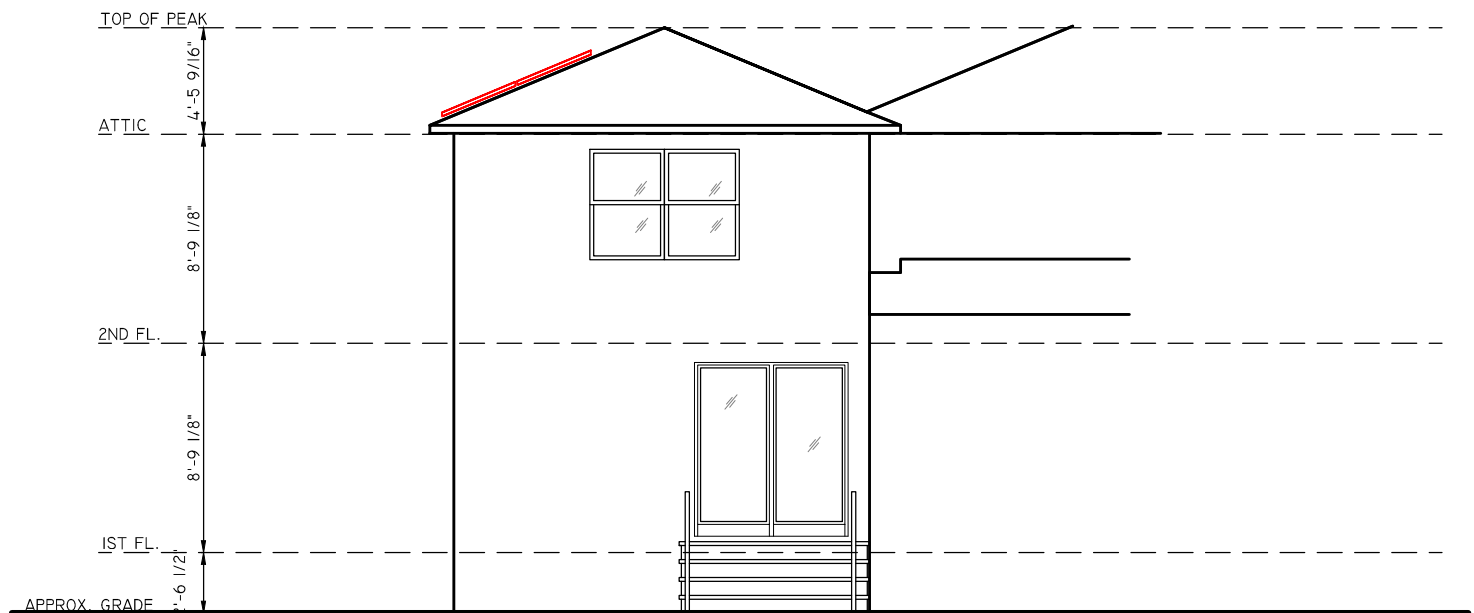
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 WEST ELEVATION  
SCALE: 1/8"=1'-0"

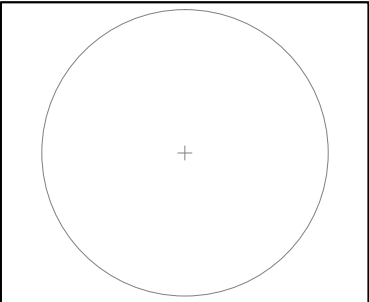
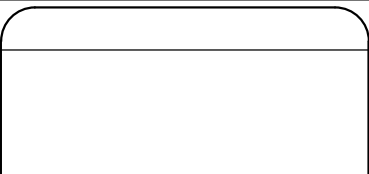


 EAST ELEVATION  
SCALE: 1/8"=1'-0"

**PLAN NOTES**

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23 N EDO COURT

STATES ISLAND, NY 10309

40.546396,-74.215245

Drawing Title:

ELEVATION DRAWING

Drawing Information	
DRAWING DATE:	1/23/2018
DRAWN BY:	JC
REVISED BY:	

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AC SYSTEM SIZE:	3kW
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MODULE SPEC #:	Q.PEAK-BLK G4.1 295
UTILITY COMPANY:	CON EDISON
UTILITY ACCT #:	7011 806 0230 0032
UTILITY METER #:	9077378
DEAL TYPE:	SUNRUN

DWG No.

S-002.00

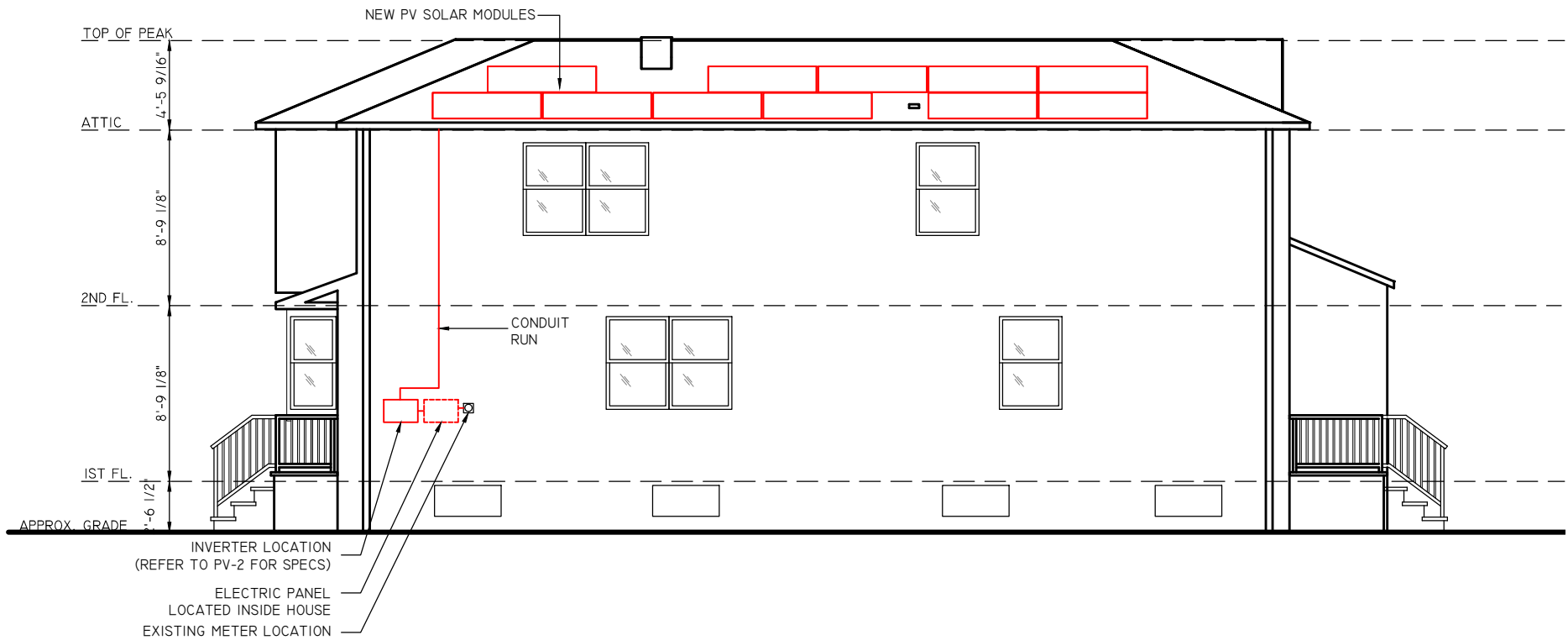
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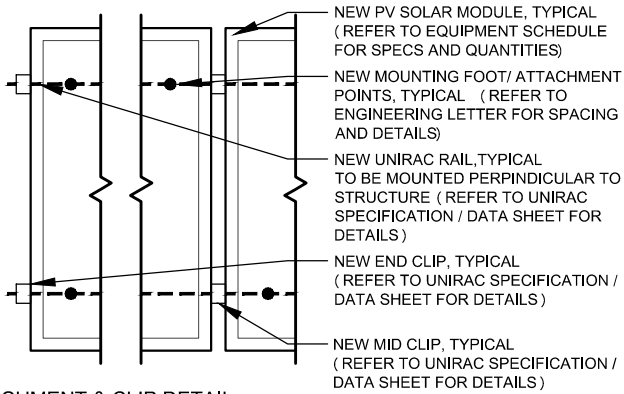
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ZR 23-62 (m) - PANEL PLACEMENT COMPLIES WITH ALL SECTIONS OF ZR 23-62 (m)

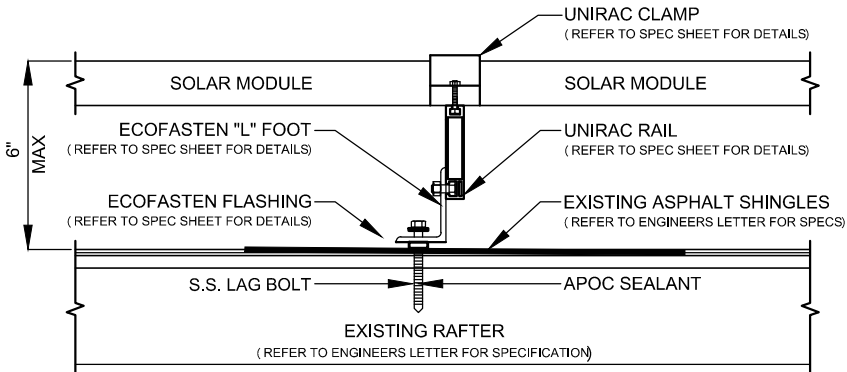


 SOUTH ELEVATION  
SCALE: 1/8"=1'-0"

NOTES : \*REFER TO MODULE SPECS FOR MODULE DIMENSIONS  
\*DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



 ATTACHMENT & CLIP DETAIL  
SCALE: NOT TO SCALE

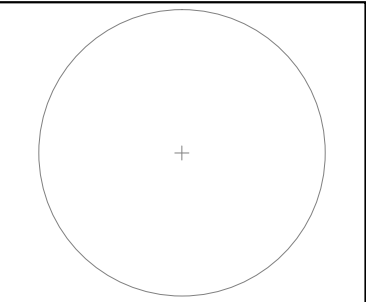
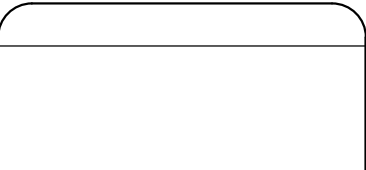


 PV MODULE ATTACHMENT ON ASPHALT SHINGLE ROOF  
SCALE: NOT TO SCALE

PLAN NOTES

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23 N EDO COURT  
STATES ISLAND, NY 10309  
40.546396,-74.215245

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ELEVATION DRAWING

Drawing Information	
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DRAWN BY:	JC
REVISED BY:	

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AC SYSTEM SIZE:	3kW
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UTILITY COMPANY:	CON EDISON
UTILITY ACCT #:	7011 806 0230 0032
UTILITY METER #:	9077378
DEAL TYPE:	SUNRUN

DWG No.  
**S-003.00**  
PAGE: 4 OF 5



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**1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ONSITE CONDITIONS AND EXECUTING INSTALLATION IN ACCORDANCE WITH NEC 2014**

3.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMP = **33°C**

5.) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION THAT CONTROLS SPECIFIC CONDUCTORS IN ACCORDANCE WITH NEC 690.12(1) THROUGH (5)

7.) UNGROUNDED DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED WITH THE FOLLOWING OUTER FINISH:  
POSITIVE CONDUCTORS = RED  
NEGATIVE CONDUCTORS = BLACK  
**NEC 210.5(C)(2)**

9.) ALL WIRE LENGTHS SHALL BE LESS THAN 100' UNLESS OTHERWISE NOTED

11.)OVERCURRENT PROTECTION FOR CONDUCTORS  
CONNECTED TO THE SUPPLY SIDE OF A SERVICE SHALL BE  
LOCATED WITHIN 10' OF THE POINT OF CONNECTION NEC  
705.31

13.) ALL SOLAR SYSTEM LOAD CENTERS TO CONTAIN ONLY GENERATION CIRCUITS AND NO UNUSED POSITIONS OR LOADS

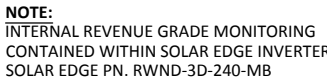
**CALCULATIONS FOR CURRENT CARRYING CONDUCTORS**  
**REQUIRED CONDUCTOR AMPACITY PER STRING**  
**[NEC 690.8(B)(1)]:  $(15.00 \times 1.25)1 = 18.75\text{A}$**

$38.40A \geq 18.75A$ , THEREFORE WIRE SIZE IS VALID

AWG #10, DERATED AMPACITY  
 AMBIENT TEMP: 30°C, TEMP DERATING: 1.0  
 RACEWAY DERATING  $\leq 3$  CCC: N/A  
 $40A \times 1.0 = 40A$

**CALCULATION FOR PV OVERCURRENT PROTECTION**  
**TOTAL INVERTER CURRENT: 12.50A**

--> 20A OVERCURRENT PROTECTION IS VALID



INVERTER #1 - SE3000H-US000NNC2			
DC		AC	
Imp	8.5	Pout	3000
Vmp	380	Imax	12.5
Voc	480	OC PDmin	15.625
Isc	15	Vnom	240

FC 512.4.2 - INDOOR AND OUTDOOR DIRECT CURRENT CONDUIT, ENCLOSURE, RACEWAYS, CABLE ASSEMBLIES, JUNCTION BOXES, COMBINER BOXES, AND MAIN SERVICE AND OTHER DISCONNECTS SHALL HAVE DURABLE, RETROREFLECTIVE, AND, IF OUTDOORS, WEATHERPROOF, MARKINGS, IN WHITE CAPITAL LETTERS WITH A HEIGHT OF NOT LESS THAN  $\frac{3}{8}$  INCH (9.5 MM) ON A RED BACKGROUND, READING "WARNING: PHOTOVOLTAIC POWER SOURCE."

A	#6 THWN-2 GEC TO EXISTING GROUND ROD
B	3/4" CONDUIT W/ 3-#10 THWN-2, 1-#10 THWN-2 GROUND
C	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND
D	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND
E	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND
F	#10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY

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NYC DEPT OF BUILDING APPROVAL STAMP

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TRINITY ACCT #: 2017-11-210166

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23 N EDO COURT STATES ISLAND, NY 10309 40.546396,-74.215245

Drawing Title:
<div>ELECTRICAL 3-LINE DRAWING</div>

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DRAWN BY:	JC
REVISED BY:	

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**E-001.00**  
PAGE: 5 OF 5



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