PHOTOVOLTAIC ROOF MOUNT SYSTEM

45 MODULES-ROOF MOUNTED - 17.775 kW DC, 13.050 kW AC, 905 SYLVAN LANE, MAMARONECK, NY 10543

FENCE

(22) TRINA SOLAR VERTEX S 395W

SLOPE: 20°

AZIM.: 117°

PHOTOVOLTAIC SYSTEM SPECIFICATIONS:

SYSTEM SIZE: 17.775 kW DC 13.050 kW AC

MODULE TYPE & AMOUNT: (45) TRINA SOLAR VERTEX S 395W

MODULE DIMENSIONS: (L/W/H) 69.06"/43.15"/1.18"

INVERTER: (45) ENPHASE IQ8PLUS-72-2-US [240V]

INTERCONNECTION METHOD: LINE SIDE TAP
BATTERY: (01) ENPHASE IQ BATTERY 10T (ENCHARGE-10T-1P-NA)

BATTERY CAPACITY: 10.08 KWH
BATTERY POWER: 3.84 kVA

SMART SWITCH: ENPHASE IQ SYSTEM CONTROLLER 2 (EP200G101-M240US01)

! MAMARONECK VILLAGE

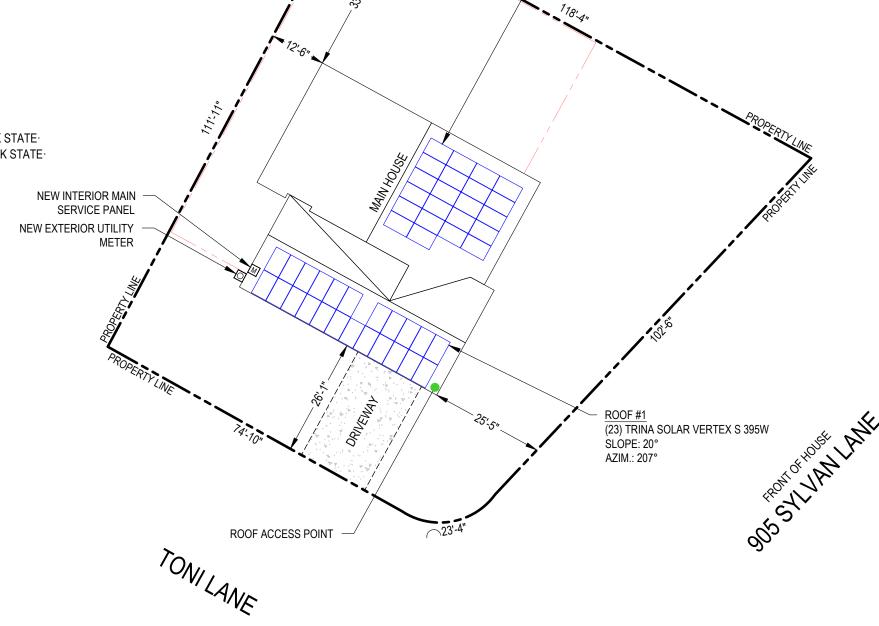
GOVERNING CODES

ADOPTED CONSTRUCTION CODES

- 2020 BUILDING CODE OF NEW YORK STATE.
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FUEL GAS CODE OF NEW YORK STATE-
- 2020 RESIDENTIAL CODE OF NEW YORK STATE-
- 2020 REGIDENTIAL GODE OF NEW YORK
- 2020 FIRE CODE OF NEW YORK STATE.
- 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE-
- 2020 PROPERTY MAINTENANCE CODE OF NEW YORK STATE
- 2017 NATIONAL ELECTRICAL CODE

GENERAL NOTES:

- a. INSTALLATION OF SOLAR PHOTOVOLTAIC SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 690, AND ALL OTHER APPLICABLE NEC CODES WHERE NOTED OR EXISTING.
- PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL COMPLY WITH NEC ARTICLE 110.
- c. ALL CONDUCTORS, INCLUDING THE GROUNDING ELECTRODE CONDUCTOR SHALL BE PROTECTED FROM PHYSICAL DAMAGE IN ACCORDANCE WITH NEC ARTICLE 250.
- d. THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE; THIS SYSTEM IS UTILITY INTERACTIVE PER UL 1741 AND ALSO INCLUDE STORAGE BATTERY.
- e. ALL DC WIRES SHALL BE SIZED ACCORDING TO [NEC 690.8]
- f. DC CONDUCTORS SHALL BE WITHIN PROTECTED RACEWAYS IN ACCORDANCE WITH [NEC 690.31]
- g. ALL SIGNAGE TO BE PLACED IN ACCORDANCE
 WITH LOCAL JURISDICTIONAL BUILDING CODE.
- PV MODULES TO BE RATED UL 1703 CLASS C FIRE RATING OR BETTER.
- . ALL EQUIPMENT TO BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.



SHEET INDEX:

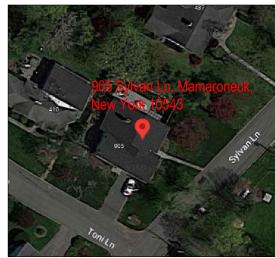
PV 0.0: **COVER SHEET** SITE PLAN PV 1.0: S 1.1: MOUNT DETAILS S 1.2: **ROOF SECTION** 3-LINE DIAGRAM E 1.1: WIRE CALCULATIONS E 1.1A: E 1.2: NOTES E 1.3: WARNING LABELS

ROOF ACCESS POINT

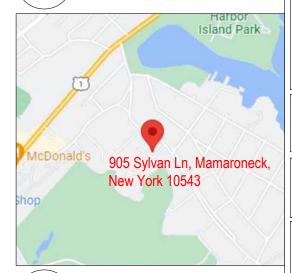
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ROOF ACCESS POINT SHALL NOT BE LOCATED IN AREAS THAT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION IN LOCATIONS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES OR SIGNS.

EQUIPMENT SPEC SHEET







VICINITY MAP

PV 0.0

InfinityEr InfinityEr InFinityEr InFinity English S75 CORPORATE DR. SUIT MAHWAH, NJ 07430

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COVER SHEET

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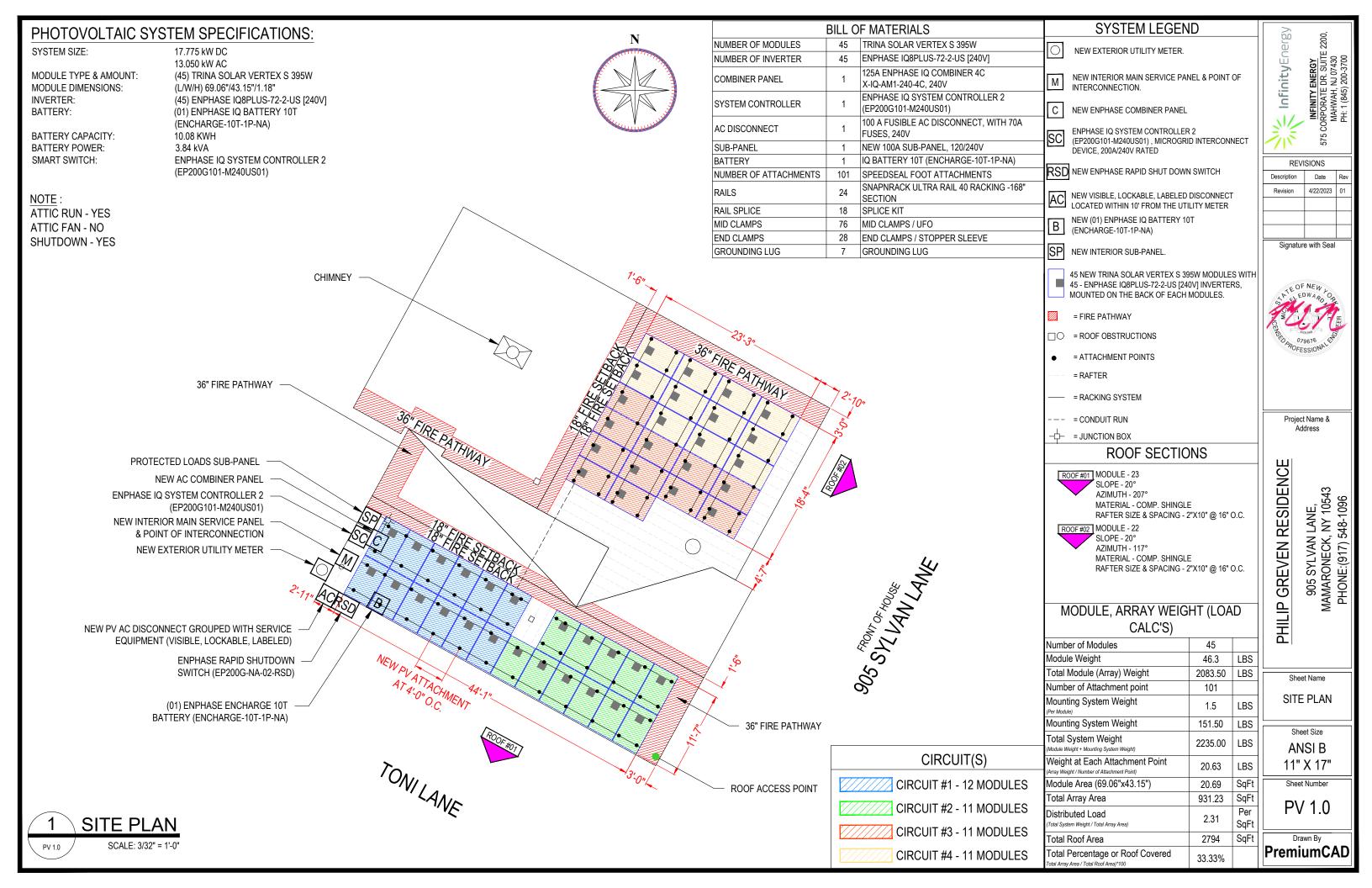
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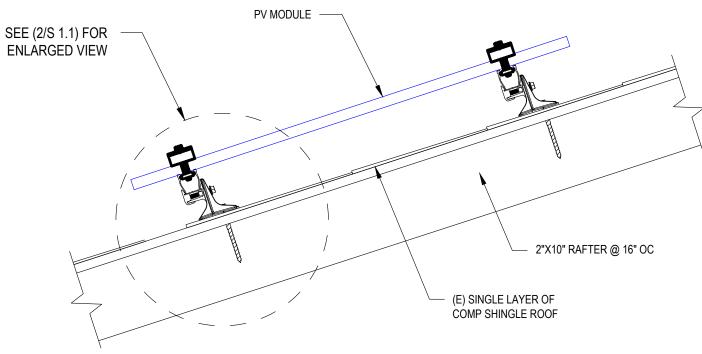
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1 PLOT PLAN

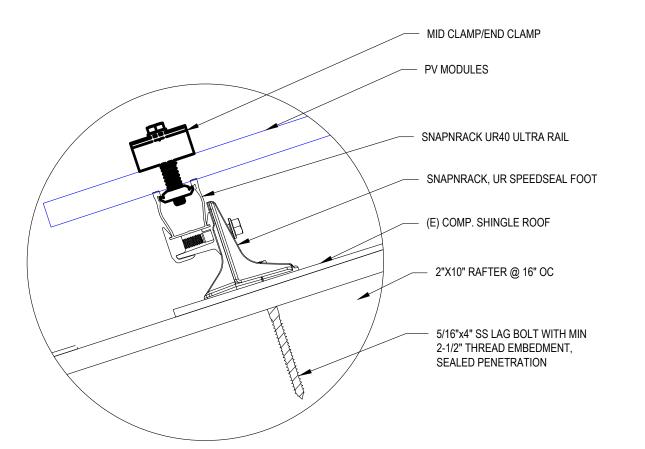


GENERAL STRUCTURAL NOTES:

- 1. THE SOLAR PANELS ARE TO BE MOUNTED TO THE ROOF FRAMING USING THE SNAPNRACK UR40 ULTRA RAIL WITH SPEEDSEAL FOOT ATTACHMENT. THE MOUNTING FEET ARE TO BE SPACED AS SHOWN IN THE DETAILS, AND MUST BE STAGGERED TO ADJACENT FRAMING MEMBERS TO SPREAD OUT THE ADDITIONAL LOAD.
- UNLESS NOTED OTHERWISE, MOUNTING ANCHORS SHALL BE 5/16" LAG SCREWS WITH A MINIMUM OF 2-1/2" PENETRATION INTO ROOF FRAMING.
- 3. THE PROPOSED PV SYSTEM ADDS 2.30 PSF TO THE ROOF FRAMING SYSTEM.
- ROOF LIVE LOAD = 20 PSF TYPICAL, 0 PSF UNDER NEW PV SYSTEM.
- 5. GROUND SNOW LOAD = 30 PSF
- 6. WIND SPEED = 117 MPH
- 7. EXPOSURE CATEGORY = B
- 8. RISK CATEGORY = II



1 ATTACHMENT DETAIL (SIDE VIEW) SCALE: NTS



2 ATTACHMENT DETAIL ENLARGED VIEW

SCALE: NTS

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MOUNT DETAIL

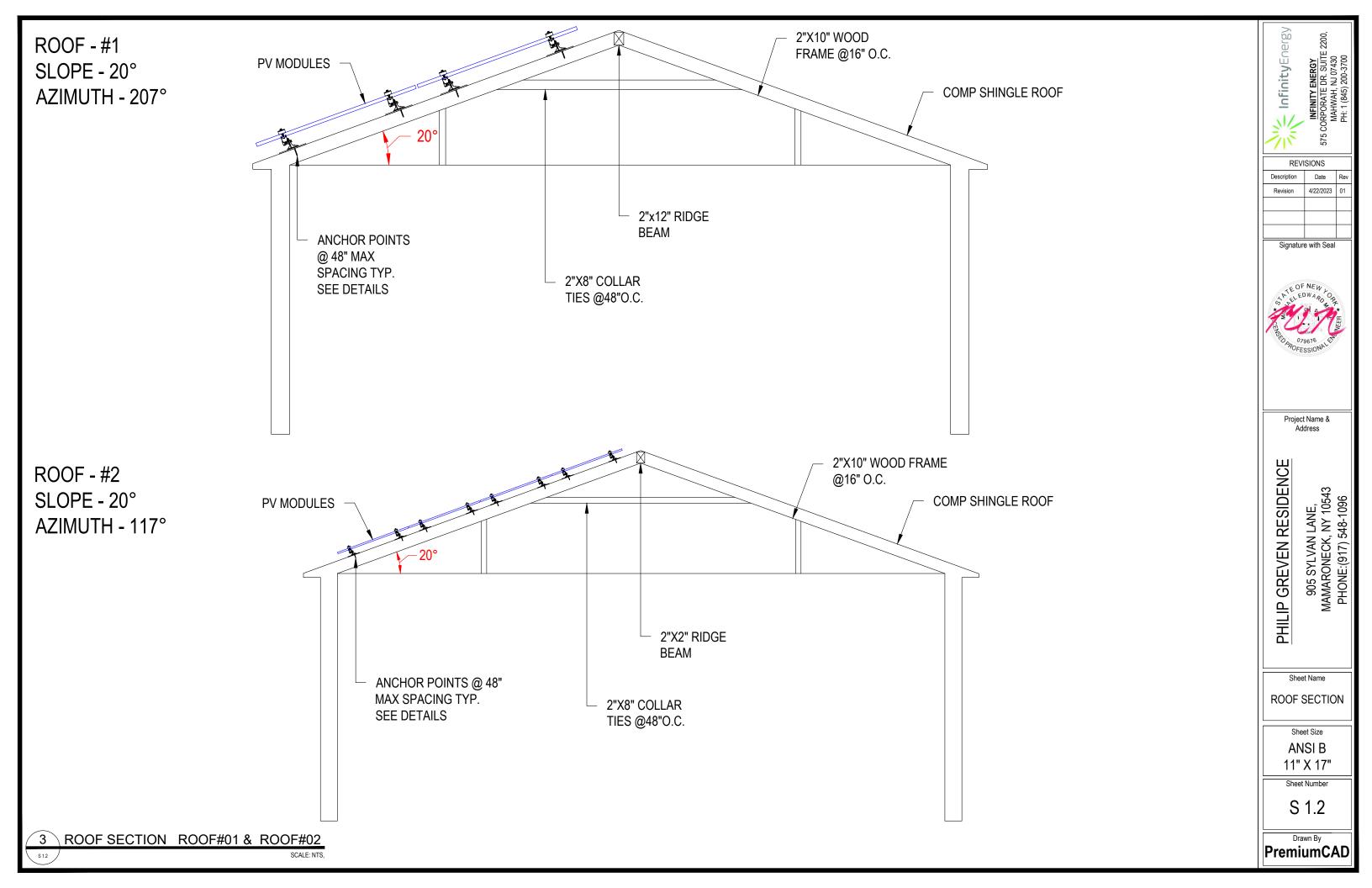
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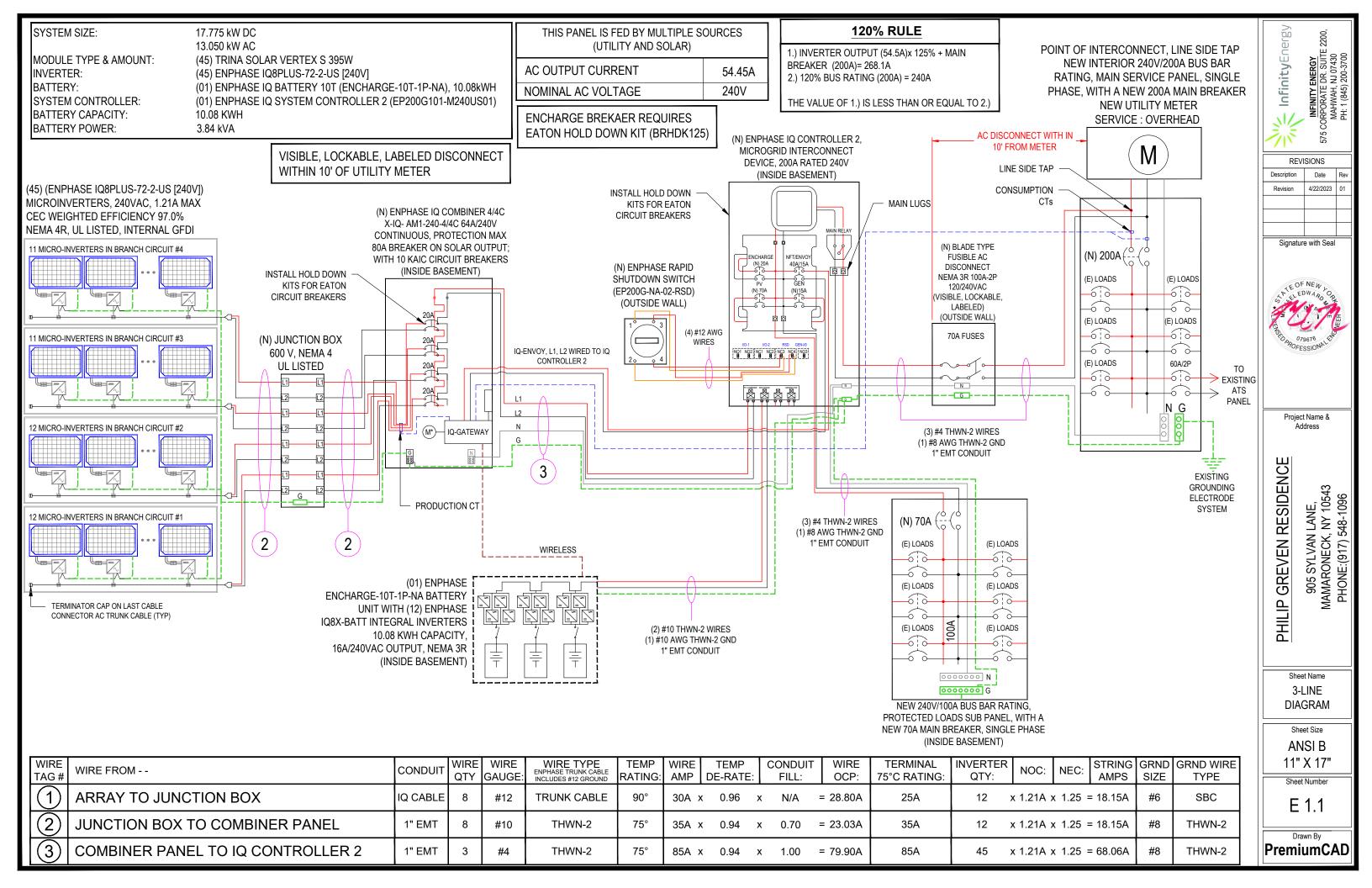
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SYSTEM SIZE: 17.775 kW DC 13.050 kW AC

MODULE TYPE & AMOUNT: (45) TRINA SOLAR VERTEX S 395W MODULE DIMENSIONS: (L/W/H) 69.06"/43.15"/1.18"

INVERTER: (45) ENPHASE IQ8PLUS-72-2-US [240V]

BATTERY: (01) ENPHASE IQ BATTERY 10T (ENCHARGE-10T-1P-NA), 10.08kWH

BATTERY POWER: 3.84 kVA

SYSTEM CONTROLLER: (01) ENPHASE IQ SYSTEM CONTROLLER 2 (EP200G101-M240US01)

BATTERY CAPACITY: 10.08 KWH BATTERY POWER: 3.84 kVA

ENPHASE IQ10T BATTERY		
MANUFACTURER	ENCHARGE-10T-1P-NA	
NOMINAL VOLTAGE /RANGE	230/184-253 VAC	
PEAK OUTPUT POWER	5.76 KVA (10 SECONDS)	
RATED CONTINUOUS OUTPUT POWER	3.84 KVA	
RATED OUTPUT CURRENT	16 AMPS	
PEAK OUTPUT CURRENT	24.6A (10 SECONDS)	
NOMINAL DC VOLTAGE	67.2 V	
MAX. DC VOLTAGE	75.6 V	

INVERTER SPECIFICATIONS	
MANUFACTURER	ENPHASE ENERGY IQ8PLUS-72-2-US
MAX. DC VOLT RATING	60 VOLTS
MAX. POWER AT 40 C	235 WATTS
NOMINAL AC VOLTAGE	290 VOLTS
MAX. AC CURRENT	1.21 AMPS
MAX. OCPD RATING	20 AMPS
MAX. PANELS/CIRCUIT	13
SHORT CIRCUIT CURRENT	15 AMPS

ENPHASE ENPOWER IQ CONTROLLER 2		
MANUFACTURER	EP200G101-M240US01	
SYSTEM VOLTAGE	120/240 VAC, 60HZ	
MAX. CONT. CURRENT	160 AMPS	
MAX. OUTPUT OCPD	200 AMPS	
MAX.OCPD FOR STORAGE BRANCH	80 AMPS	
MAX. OCPD FOR PV COMBINER BRANCH	80 AMPS	

PV MODULE RATING @ STC		
MANUFACTURER	TRINA SOLAR VERTEX S 395W	
MAX. POWER-POINT CURRENT (IMP)	11.62 AMPS	
MAX. POWER-POINT VOLTAGE (VMP)	34.0 VOLTS	
OPEN-CIRCUIT VOLTAGE (VOC)	41.0 VOLTS	
SHORT-CIRCUIT CURRENT (ISC)	12.21 AMPS	
NOM. MAX. POWER AT STC (PMAX)	395 WATT	
MAX. SYSTEM VOLTAGE	1500V	
VOC TEMPERATURE COEFFICIENT	-0.25° %/°C	

Rooftop conductor ampacities designed in compliance with
art. 690.8, Tables 310.15(B)(2)(a), 310.15(B)(3)(a),
310.15(B)(3)(c), 310.15(B)(16), Chapter 9 Table 4, 5, & 9.
Location specific temperature obtained from ASHRAE 2017
data tables

RECORD LOW TEMP	-17°C
AMBIENT TEMP (HIGH TEMP 2%)	32°C
CONDUIT HEIGHT	0.5"
ROOF TOP TEMP	54°C
CONDUCTOR TEMPERATURE RATE	90°C

COMMUNICATION NOTES:

- ETHERNET COMMUNICATION TO BE RUN FROM THE INTERNET ROUTER TO THE ENPHASE IQ COMBINER.
- WIRELESS COMMUNICATION KIT NEEDED FOR COMMUNICATION BETWEEN ENVOY (COMMS KIT-01). TO BE INSTALLED AT THE IQ ENVOY FOR COMMUNICATION WITH ENCHARGE AND ENPOWER.
 INCLUDES USB CABLE FOR CONNECTION TO ENVOY/IQ COMBINER AND ALLOWS WIRELESS COMMUNICATION WITH ENCHARGE AND ENPOWER.

IQ COMBINER NOTES:

- ETHERNET OR WIFI IS THE PRIMARY COMM'S FOR ENVOY TO ENLIGHTEN.
- COMM'S KIT FOR ENSEMBLE DEVICE COMMUNICATION TO BE INSTALLED.

EQUIPMENT LOCATION NOTES:

- 1. DISTANCE BETWEEN ENPOWER AND ENCHARGE SHOULE BE LESS THEN 5' ELSE AN AC DISCONNECT WILL BE REQUIRED.
- 2. ENCHARGE BATTERY SYSTEM SHOULDE NOT BE LOCATED IN DIRECT SUNLIGHT (SOUTH WALL).
- 3. MAX WIRELESS DISTANCE BETWEEN ENSEMBLE DEVICES IS 50'.
- 4. IF THERE IS COMMUNICATION ISSUE BETWEEN ENPOWER/ENCHARGE TO ENVOY, AN USB EXTENDER CAN BE USED TO RELOCATE THE COMMS KIT NEAR THE ENPOWER AND ENCHARGE.
- 5. THE PV ARRAY SHOULD NOT EXCEED THE MAX DISTANCE OF 150' FROM ENVOY.

NOTES:

- ENPOWER INPUT FEEDS UNDER 100A WILL NEED TO DIRECT CONNECTED TO LUGS. ALL MAIN BREAKERS NEED TO BE CSR TYPE.
- 2. ENPOWER'S MAIN INPUT & OUTPUT LUGS ARE RATED FOR #1-350 kcmil, FOR WIRES SMALLER THAN #1 REMOVE LUG AND USE AN APPROVED UL RING TERMINAL.



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> Sheet Name 3-LINE DIAGRAM

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SITE NOTES:

- A LADDER WILL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- 2. THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM WITH STORAGE BATTERIES.
- THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
- 4. PROPERACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PERSECTION NEC 110.26.
- 5. ROOF COVERINGS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTRUCTIONS SUCH THAT THE ROOF COVERING SERVES TO PROTECT THE BUILDING OR STRUCTURE.

EQUIPMENT LOCATIONS:

- 1. ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26.
- 2. WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31 (A),(C) AND NEC TABLES 310.15 (B)(2)(A) AND 310.15 (B)(3)(C).
- 3. JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34.
- 4. ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT. 2.2.6 ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES.
- 5. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

STRUCTURAL NOTES:

- RACKING SYSTEM & PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES, AND RAILS MUSTALSO EXTEND A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY, ACCORDING TO RAI MANUFACTURER'S INSTRUCTIONS.
- 2. JUNCTION BOX WILL BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & SEALED PER LOCAL REQUIREMENTS.
- 3. ROOFTOP PENETRATIONS FOR PV RACEWAY WILLBE COMPLETED AND SEALED W/ APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.
- 4. ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER. 2.3.6 WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.

WIRING & CONDUIT NOTES:

- 1. ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS AREBASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- 2. CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.
- 3. VOLTAGE DROP LIMITED TO 1.5%.
- 4. DC WIRING LIMITED TO MODULE FOOTPRINT. MICROINVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY W/ SUITABLE WIRING CLIPS.
- 5. AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK PHASE B OR L2- RED, OR OTHER CONVENTION IF THREE PHASE PHASE C OR L3- BLUE, YELLOW, ORANGE**, OR OTHER CONVENTION NEUTRAL- WHITE OR GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH HIGHER VOLTAGE TO BE MARKED ORANGE [NEC 110.15].

GROUNDING NOTES:

- GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVISES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE
- PV EQUIPMENT SHALL BE GROUNDED ACCORDING TO NEC 690.43 AND MINIMUM NEC TABLE 250.122.
- 3. METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORD WITH 250.134 AND 250.136(A).
- 4. EQUIPMENT GROUNDING CONDUCTORS SHALLBE SIZED ACCORDING TO NEC 690.45 AND MICROINVERTER MANUFACTORERS' INSTRUCTIONS.
- 5. EACH MODULE WILL BE GROUNDED USING WEEB GROUNDING CLIPS AS SHOWN IN MANUFACTURERDOCUMENTATION AND APPROVED BY THE AHJ. IF WEEBS ARE NOT USED, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE SPECIFIED GROUNDING LUG HOLES PER THE MANUFACTURERS' INSTALLATION REQUIREMENTS.
- 6. THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OFA MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE.
- 7. GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC 250.119]
- 8. THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, A GROUNDING ELECTRODE SYSTEM PROVIDED ACCORDING TO NEC 250, NEC 690.47 AND AHJ.
- 9. GROUND-FAULT DETECTION SHALL COMPLY WITH NEC 690.41(B)(1) AND (2) TO REDUCE FIRE HAZARDS

DISCONNECTION AND OVER-CURRENT PROTECTION NOTES:

- 1. DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHENTHE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARECONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS).
- 2. DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH
- . PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS IN ACCORDANCE WITH 690.12(A) THROUGH (D).
- ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8, 690.9, AND 240.
- 5. MICROINVERTER BRANCHES CONNECTED TO A SINGLE BREAKER OR GROUPED FUSES IN ACCORDANCE WITH NEC 110.3(B).
- IF REQUIRED BY AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION ACCORDING TO NEC 690.11 AND UL1699B.

INTERCONNECTION NOTES:

- 1. LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH [NEC 705.12 (B)]
- 2. THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS OUTPUT MAY NOT EXCEED 120% OF BUSBAR RATING [NEC 705.12(D)(2)(3)].
- 3. THE SUM OF 125 PERCENT OF THE POWER SOURCE(S) OUTPUT CIRCUIT CURRENT AND THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR SHALL NOT EXCEED 120 PERCENT OF THE AMPACITY OF THE BUSBAR, PV DEDICATED BACKFEED BREAKERS MUST BE LOCATED OPPOSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD [NEC 705.12(B)(2)(3)].
- 4. AT MULTIPLE ELECTRIC POWER SOURCES OUTPUT COMBINER PANEL, TOTAL RATING OF ALL OVERCURRENT DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR. HOWEVER, THE COMBINED OVERCURRENT DEVICE MAY BE EXCLUDED ACCORDING TO NEC 705.12 (B)(2)(3)(C).
- 5. FEEDER TAP INTERCONECTION (LOADSIDE) ACCORDING TO NEC 705.12 (B)(2)(1)
- SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO NEC 705.12 (A) WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42 2.7.8BACKFEEDING BREAKER FOR ELECTRIC POWER SOURCES OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING [NEC 705.12 (B)(5)].

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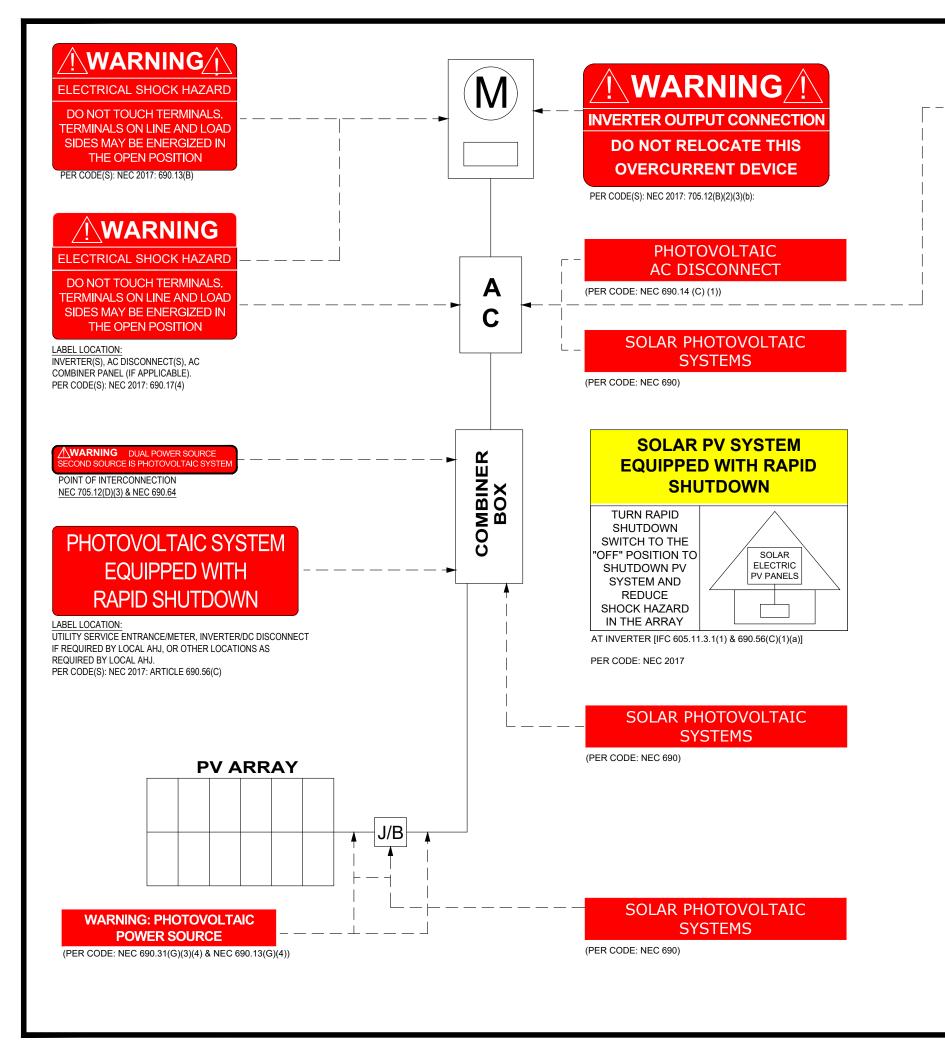
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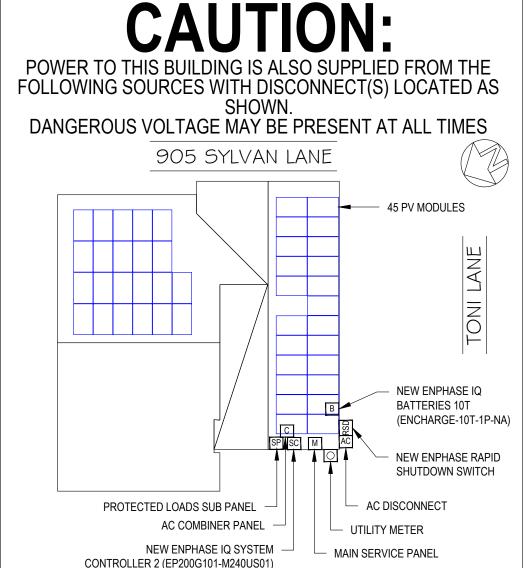
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PHOTOVOLTAIC SYSTEM AC DISCONNECT RATED AC OPERATING CURRENT 54.45 AMPS AC NOMINAL OPERATING VOLTAGE 240 VOLTS

AC DISCONNECT, POINT OF INTERCONNECTION (PER CODE: NEC 690.54)



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Sheet Name WARNING **LABELS**

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