













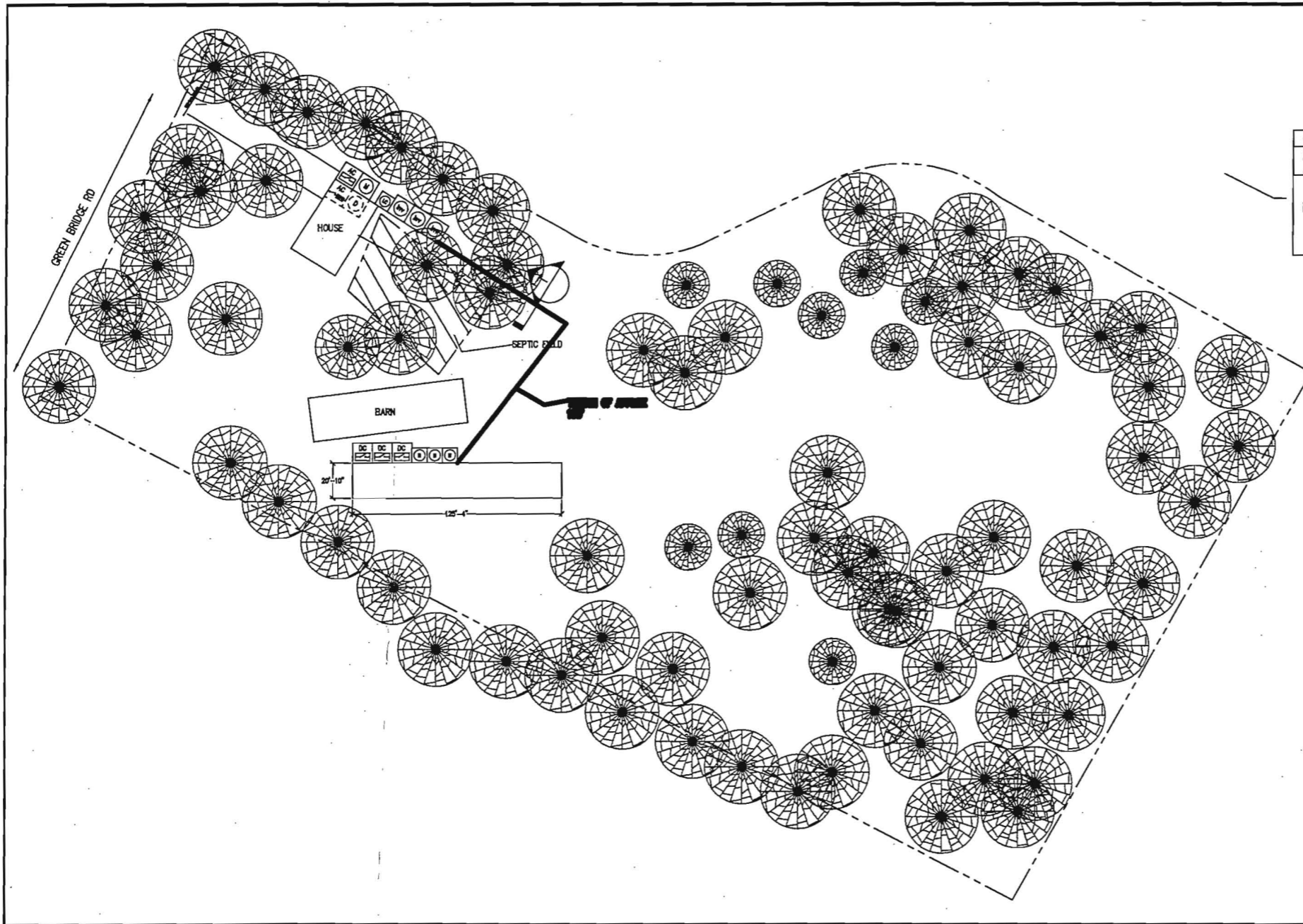
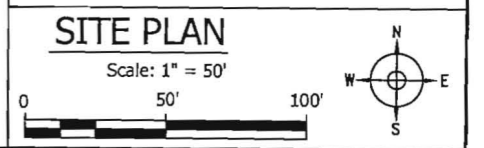


PITCH: 18 ARRAY PITCH: 18
 AZIMUTH: 180 ARRAY AZIMUTH: 180
 MATERIAL: Comp Shingle STORY: 2 Stories

REVISED
 Date: 3-9-15
 Comments: *per Health*
 B14004078
approved 3/12/15 gw
LEGEND

-  (E) UTILITY METER & WARNING LABEL
-  INVERTER W/ INTEGRATED DC DISCO & WARNING LABELS
-  DC DISCONNECT & WARNING LABELS
-  AC DISCONNECT & WARNING LABELS
-  DC JUNCTION/COMBINER BOX & LABELS
-  DISTRIBUTION PANEL & LABELS
-  LOAD CENTER & WARNING LABELS
-  DEDICATED PV SYSTEM METER
-  STANDOFF LOCATIONS
-  CONDUIT RUN ON EXTERIOR
-  CONDUIT RUN ON INTERIOR
-  GATE/FENCE
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-  INTERIOR EQUIPMENT IS DASHED



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JOB NUMBER: JB-210717 00
 MOUNTING SYSTEM:
 Comp Mount Type C
 MODULES:
 (148) YINGLI # YL250P-29b
 INVERTER:
 Multiple Inverters

PREMISE OWNER:
 MOY, REBECCA
 5159 GREEN BRIDGE RD
 DAYTON, MD 21036
 (301) 332-6914

DESCRIPTION:
 MOY RESIDENCE
 37 KW PV ARRAY
 PAGE NAME:
 SITE PLAN

DESIGN:
 Qais Feroz
 SHEET: PV 2
 REV: 2
 DATE: 2/19/2015

SolarCity
 3055 Clearview Way
 San Mateo, CA 94402
 T: (650) 638-1022 F: (650) 638-1029
 (888)-SOL-CITY (765-2498) www.solarcity.com

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Friday, March 06, 2015 1:22 PM
To: 'Ruslan Kudlai'
Cc: Femi Adegbite
Subject: RE: 5159 Green Bridge Rd solar permit B14004078

The revision plot plan from DILP shows the conduit running between the house and sewage area. The plan below is acceptable to me. You need to submit that plan to DILP and have them upload it into their system as an attachment. If you let me know when that has happened, I will be able to look it up and approve the BP at that time. Thanks
Jeff

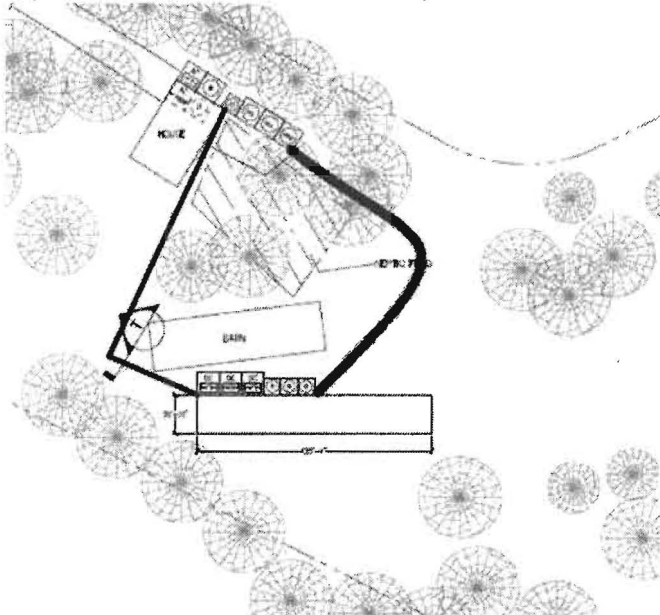
From: Ruslan Kudlai [<mailto:rkudlai@solarcity.com>]
Sent: Friday, March 06, 2015 11:53 AM
To: Williams, Jeffrey
Cc: Femi Adegbite
Subject: RE: 5159 Green Bridge Rd solar permit B14004078

Hello Jeffrey,

I'm Project manager in local SolarCity office supervising this particular job. I will be glad to answer all your questions. Our original design mistakenly shown trench going through septic system and it had to be changed. We re-routed trench to avoid septic system completely. Now it starts in the middle of the array going around barn on the East side of it towards corner of the house (see below):

Let me know if we need to provide you new copy of drawing.

If you need additional information please don't hesitate to call or email me or Femi. Thank you



Ruslan Kudlai | Sr. Crew Lead | NABCEP Certified Solar PV Professional | SolarCity | C: 202-802-0404 | rkudlai@solarcity.com | www.solarcity.com



From: Femi Adegbite
Sent: Friday, March 06, 2015 11:31 AM
To: Ruslan Kudlai
Subject: Fw: 5159 Green Bridge Rd solar permit B14004078

Sent from my BlackBerry 10 smartphone.

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Friday, March 6, 2015 11:02 AM
To: Femi Adegbite
Subject: 5159 Green Bridge Rd solar permit B14004078

Hello. I recently received the permit revision for B14004078, 5159 Green Bridge Rd. It appears that the conduit from the solar array to the equipment now runs between the house and the sewage disposal area. This path crosses the building sewer pipe leading from the house to the septic tank. Can you please respond with an answer to the following questions:

- What is the depth of the conduit trench
- What is your plan for making sure you avoid hitting the sewer line
- What is your plan for marking the conduit so it can be located and avoided during future sewage system repairs

Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

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Williams, Jeffrey

From: Williams, Jeffrey
Sent: Friday, March 06, 2015 10:49 AM
To: Femi Adegbite (badegbite@solarcity.com)
Subject: 5159 Green Bridge Rd solar permit B14004078

Hello. I recently received the permit revision for B14004078, 5159 Green Bridge Rd. It appears that the conduit from the solar array to the equipment now runs between the house and the sewage disposal area. This path crosses the building sewer pipe leading from the house to the septic tank. Can you please respond with an answer to the following questions:

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Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

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February 23, 2015

RECEIVED

FEB 24 2015

LICENSES & PERMITS
DIVISION

Howard County Government
Division of Plan Review
Department of Inspections, Licenses, and Permits
3430 Court House Drive
Ellicott City, MD 21043

check# 752423
invoice# 392170

Re: Residential Solar Permit Amendment:
Permit No. B14004078, E14006097
5159 Green Bridge Rd

Attn: Ms. Debbie Whalen,

I respectfully submit the following documents for the permit amendment of a residential solar electric project in your county:

- 1) Check No. 752423 in the amount of \$25.00 representing fees for the building permit revision.
- 2) (1) sets of Plans including:
 - a. Site Plan showing overhead view and location of equipment
 - b. Roof Plan showing overhead view and location of equipment
 - c. Structural views showing rack and attachment details
 - d. Uplift Calculations
 - e. Electrical 3-line diagram
 - f. PV Panel Spec Sheet
 - g. Inverter Spec Sheet
 - h. Mounting Spec Sheet

Reason(s) for amendment:

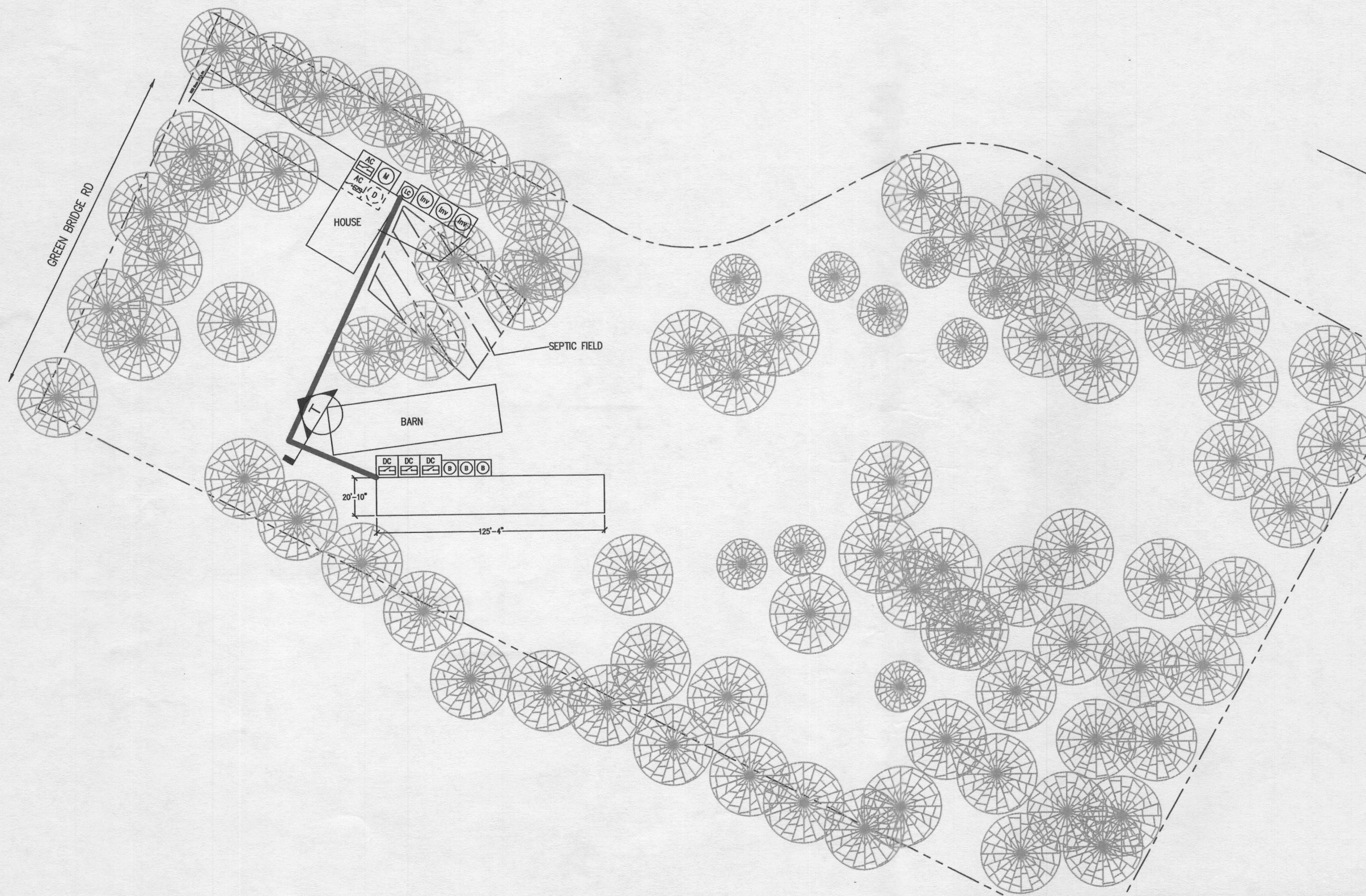
1. Change in solar array (ground mount) location.

Once the permits have been approved, please send all permits and receipts to my attention. Thank you for your assistance with this matter, and again, please feel free to contact me with any questions. I can be reached at (443) 451-3519 or badegbite@solarcity.com. I look forward to hearing from you soon.

Sincerely,

Femi Adegbite
Permits Coordinator

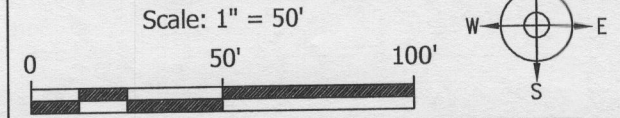
MP1 PITCH: 18 ARRAY PITCH: 18
 AZIMUTH: 180 ARRAY AZIMUTH: 180
 MATERIAL: Comp Shingle STORY: 2 Stories



LEGEND

- (M) (E) UTILITY METER & WARNING LABEL
- (Inv) INVERTER W/ INTEGRATED DC DISCO & WARNING LABELS
- DC DC DISCONNECT & WARNING LABELS
- AC AC DISCONNECT & WARNING LABELS
- (B) DC JUNCTION/COMBINER BOX & LABELS
- (D) DISTRIBUTION PANEL & LABELS
- (LC) LOAD CENTER & WARNING LABELS
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SITE PLAN



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 (148) YINGLI # YL250P-29b
 INVERTER:
 Multiple Inverters

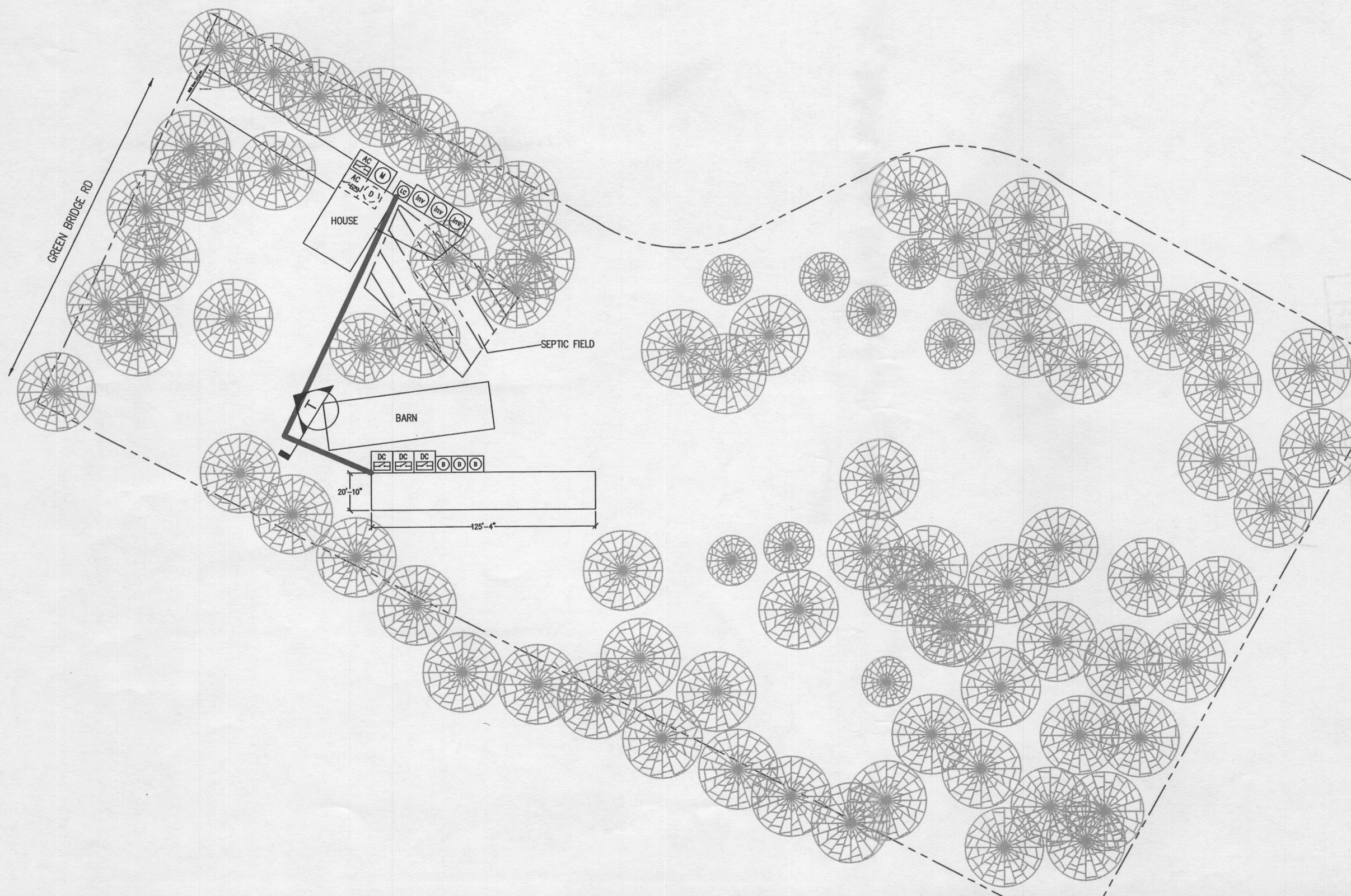
PREMISE OWNER:
 MOY, REBECCA
 5159 GREEN BRIDGE RD
 DAYTON, MD 21036
 (301) 332-6914

DESCRIPTION:
 MOY RESIDENCE
 37 KW PV ARRAY
 PAGE NAME:
 SITE PLAN

DESIGN:
 Qais Feroz
 SHEET: PV 2 REV: 2 DATE: 2/19/2015

3055 Clearview Way
 San Mateo, CA 94402
 T: (650) 638-1028 F: (650) 638-1029
 (888)-SOL-CITY (765-2489) www.solarcity.com

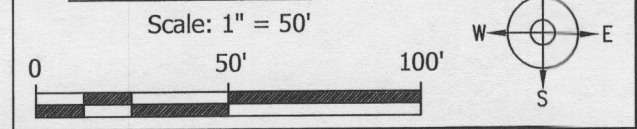
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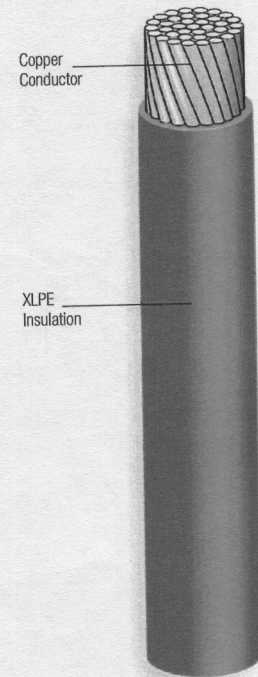
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TYPE USE-2/RHH/RHW-2 COPPER CONDUCTOR



Copper
Conductor

XLPE
Insulation

NOTE: Also available upon request
in SuperSlick Elite®.

ENGINEERING SPECIFICATIONS:

Standards:

Underwriters Laboratories Standards UL-44, UL-854
Federal Specification A-A-59544
NEMA WC70/ICEA S-95-658
NFPA 70: National Electrical Code (NEC)
UL 1685-FT4/IEEE 1202 (70,000 Btu/hr) Flame Test (1/0 AWG and larger)
ICEA T-29-520 (210,000 Btu/hr) Flame Test
NEMA RV4 2009
ARRA 2009; Section 1605 "Buy American" Compliant



CONSTRUCTION:

Conductors:

Stranded conductors, uncoated copper per ASTM-B787 and ASTM-B8

Insulation:

Cross-linked polyethylene (XLPE) insulation per UL-854

Applications:

Type USE-2 or RHH or RHW-2 copper conductors are suitable for use in conduit and raceways installed underground in conduit, wet locations, and where condensation and moisture accumulations within the conduit do not exceed 90°C. Applications requiring direct burial are permitted for Type USE-2, RHH, RHW-2 per UL-854. For applications requiring Type RHH or RHW-2, conductor temperatures shall not exceed 90°C in wet or dry locations. Type USE-2 or RHH or RHW-2 is permitted for 600 volt applications.

Features:

Rated VW-1. 6 AWG and larger rated for Sunlight Resistance in all colors. On 250 KCMIL and larger, sequential foot markings located every foot for easy measuring. For 1 AWG through 4/0 AWG, sequential foot markings on master reels only unless otherwise specified. 1/0 AWG and larger are rated for cable tray use and comply with IEEE 1202/FT4 (70,000 Btu/hr) flame test. When used as RHH or RHW-2, cable also complies with ICEA T-29-520 (210,000 Btu/hr) flame test.

Type USE-2/RHH/RHW-2 Copper Conductor

Size (AWG or KCMIL)	Number of Strands	Insulation Thickness XLPE (in)	Outside Diameter		Allowable Ampacity (Amps)**			Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)
			(in)	(mm)	60°C	75°C	90°C		
12	19	.045	.179	4.55	20	20	30	30	1000' carton (2x500), 2500' reels
10	19	.045	.202	5.13	30	30	30	43	500' 2500' reels
8	7*	.060	.266	6.76	40	50	55	72	500' 1000' 2500' 5000' reels
6	7*	.060	.304	7.73	55	65	75	106	500' 1000' 2500' 5000' reels
4	7*	.060	.352	8.94	70	85	95	157	500' 1000' 2500' 5000' reels
3	7*	.060	.380	9.66	85	100	110	201	500' 1000' 2500' 5000' reels
2	7*	.060	.412	10.47	95	115	130	237	500' 1000' 2500' 5000' reels
1	19	.080	.481	12.22	110	130	150	309	500' 1000' 2500' 5000' reels
1/0	19	.080	.520	13.21	125	150	170	382	500' 1000' 2500' 5000' reels
2/0	19	.080	.564	14.33	145	175	195	471	500' 1000' 2500' 5000' reels
3/0	19	.080	.614	15.60	165	200	225	587	500' 1000' 2500' 5000' reels
4/0	19	.080	.670	17.02	195	230	260	729	500' 1000' 2500' 5000' reels
250	37	.095	.732	18.60	215	255	290	861	500' 1000' 2500' 4000' reels
300	37	.095	.784	19.92	240	285	320	1029	500' 1000' 3500' reels
350	37	.095	.831	21.11	260	310	350	1193	500' 1000' 3000' reels
400	37	.095	.875	22.23	280	335	380	1354	500' 1000' 3000' reels
500	37	.095	.956	24.29	320	380	430	1672	500' 1000' 2500' reels
600	61	.110	1.086	27.59	355	420	475	2012	500' 1000' 2000' reels
750	61	.110	1.188	30.18	400	475	535	2493	500' 1000' 1500' reels
1000	61	.110	1.337	33.96	455	545	615	3287	500' 1000' reels

*8 AWG-2 AWG: 19/w is available by request.

**Allowable ampacity shown above is per the National Electrical Code. The above data is approximate and subject to normal manufacturing tolerances.

PRINT LEGEND:
STRANDED CONDUCTOR 12 AWG THROUGH 8 AWG: ENCORE WIRE CORPORATION (size) TYPE USE-2 OR RHH OR RHW-2 VW -1 600 VOLTS XLPE (UL) DATE/TIME/OPER/QC
STRANDED CONDUCTOR SIZES 6 AWG THROUGH 1 AWG: ENCORE WIRE CORPORATION (size) TYPE USE-2 OR RHH OR RHW-2 VW -1 SUN-RES 600 VOLTS XLPE (UL) DATE/TIME/OPER/QC
STRANDED CONDUCTOR SIZES 1/0 AWG THROUGH 1000 KCMIL: ENCORE WIRE CORPORATION (size) TYPE USE-2 OR RHH OR RHW-2 VW -1 SUN-RES 600 VOLTS XLPE (UL) FOR CT USE
DATE/TIME/OPER/QC

800.962.9473 www.encorewire.com



YGE-Z 60 CELL SERIES

YL260P-29b
YL255P-29b
YL250P-29b
YL245P-29b
YL240P-29b



THE IDEAL SOLUTION FOR HOMEOWNERS

The Zep Compatible™ YGE-Z 60 Cell Series delivers superior performance and an elegant aesthetic in residential applications. When mounted with Zep racking systems, it allows for lower balance of system costs and reduced installation times.



Trusted Partner

Yingli is one of the world's largest solar module manufacturers with over 10 GW deployed worldwide, and Yingli modules are trusted by leading energy providers and financial institutions in more than 85,000 projects in the Americas.



More Energy per Watt

Yingli modules deliver superior power output in a variety of temperature and irradiance conditions, and self-cleaning anti-reflective coated glass reduces soiling to help maximize power output. Performance is backed by our 25-year linear warranty.



Designed to Outlast

Tested to the industry's most rigorous durability standards, Yingli modules are PID-resistant in conformance with IEC 62804 (draft). To ensure reliable performance, Yingli uses quality components such as DuPont™ Tedlar® PVF film-based backsheets.



Best-In-Class Technical Support

Yingli's locally-based engineering team is trained in system design and operations to provide field-support and value-added after sales services, including commissioning and field-testing support. Our PV Testing Lab in California provides a resource for evaluating technical inquiries.

Warranty Information

Ten-year limited product warranty. Industry leading 25-year performance warranty adds value by guaranteeing power output on an annual basis, in compliance with our warranty terms and conditions.

Performance Modeling

For those interested in obtaining module performance modeling files for system energy yield simulation, please contact Yingli at simulation@yingliamericas.com.

Qualifications & Certificates

UL 1703 and UL 1703, CEC, FSEC, ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007, SA8000



16.0%
MAXIMUM EFFICIENCY

25 YEAR
LINEAR POWER WARRANTY

0-3%
POWER TOLERANCE

YINGLISOLAR.COM

YGE-Z 60 CELL SERIES

Powered by YINGLI

ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type			YL260P-29b	YL255P-29b	YL250P-29b	YL245P-29b	YL240P-29b
Power output	P_{max}	W	260	255	250	245	240
Power output tolerances	ΔP_{max}	%			-0 / +3		
Module efficiency	η_m	%	16.0	15.7	15.4	15.1	14.8
Voltage at P_{max}	V_{mpp}	V	30.3	30.0	29.8	29.6	29.3
Current at P_{max}	I_{mpp}	A	8.59	8.49	8.39	8.28	8.18
Open-circuit voltage	V_{oc}	V	37.7	37.7	37.6	37.5	37.5
Short-circuit current	I_{sc}	A	9.09	9.01	8.92	8.83	8.75

STC: 1000W/m² irradiance, 25°C cell temperature, AM 1.5G spectrum according to EN 60904-3

Maximum power output P_{max} at multiple rating conditions of temperature and irradiance

	Temperature	Irradiance	YL260P-29b	YL255P-29b	YL250P-29b	YL245P-29b	YL240P-29b	
	°C	W/m ²	W	W	W	W	W	
High Temperature Condition	HTC	75	1000	203.7	199.8	195.9	192.0	188.1
Nominal Operating Cell Temperature	NOCT	46	800	190.6	186.9	183.2	179.5	175.9
Low Temperature Condition	LTC	15	500	135.7	133.1	130.5	127.9	125.3
Low Irradiance Condition	LIC	25	200	50.3	49.4	48.4	47.4	46.5

OPERATING CONDITIONS

Max. system voltage	UL 1000Voc
Max. series fuse rating	15A
Limiting reverse current	15A
Operating temperature range	-40 to 185°F (-40 to 85°C)
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

THERMAL CHARACTERISTICS

Temperature coefficient of P_{max}	%/°C	-0.43
Temperature coefficient of V_{oc}	%/°C	-0.32
Temperature coefficient of I_{sc}	%/°C	0.04
Temperature coefficient of V_{mpp}	%/°C	-0.42

CONSTRUCTION MATERIALS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Cell (quantity / material / dimensions)	60 / multicrystalline silicon / 156mm x 156mm
Encapsulant (material)	ethylene vinyl acetate (EVA)
Backsheet (material / color)	fluoropolymer-based with EVA primer / white or black
Frame (material / color)	anodized aluminum / black
Junction box (ingress protection rating)	≥ IP65
Cable (length / cross-sectional area)	1200mm / 4mm ²
Connector (type / ingress protection rating)	Amphenol H4 / IP68

GENERAL CHARACTERISTICS

Module dimensions (L / W / H)	64.57in (1640mm) / 38.98in (990mm) / 1.57in (40mm)
Module weight	43.4lbs (19.7kg)
Number of modules per pallet	26
Number of pallets per 40' container	28
Packaging box dimensions (L / W / H)	67.32in (1710mm) / 45.67in (1160mm) / 46.38in (1178mm)
Packaging box weight	1202lbs (545kg)
Fire classification type	Type 1



Warning: Read the Installation and User Manual in its entirety before handling, installing, and operating Yingli modules.

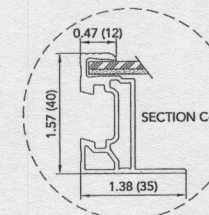
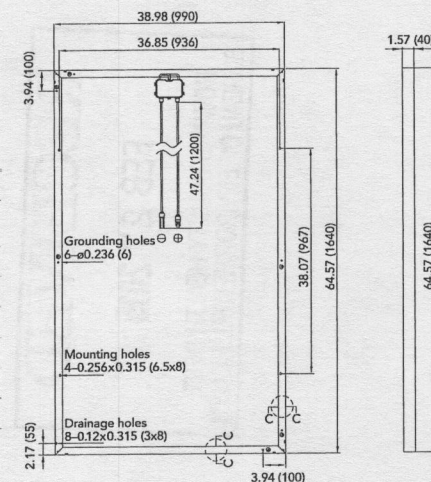
Yingli Green Energy Americas, Inc.
info@yingliamericas.com
Tel: +1 (888) 686-8820

YINGLISOLAR.COM | NYSE:YGE

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Units: inch (mm)



TECHNICAL DATA: FRONIUS IG PLUS ADVANCED(10.0-1_{UNI}, 11.4-1_{UNI}, 10.0-3_{UNI} DELTA, 11.4-3_{UNI} DELTA, 12.0-3 WYE277)

INPUT DATA	10.0 - 1 _{UNI}	11.4 - 1 _{UNI}	10.0 - 3 _{UNI} DELTA	11.4 - 3 _{UNI} DELTA	12.0 - 3 WYE277
Recommended PV-Power (kWp)	5.50 - 11.50	9.70 - 13.10	8.50 - 11.50	9.70 - 13.10	10.20 - 13.80
Nominal Input Current	27.6 A	31.4 A	27.6 A	31.4 A	33.1 A
Max. Usable Input Current	46.7 A	53.3 A	46.7 A	53.3 A	56.1 A
MPPT - Voltage Range	230 - 500 V				
DC Startup	260 V				
Max. Input Voltage	600 V				
Admissible Conductor Size (DC)	No. 14 to 6 AWG. For larger wire, use Fronius connecting distributor.				
Max. Current per DC Input Terminal	20 Amps. For higher input current, use Fronius connecting distributor.				

OUTPUT DATA	10.0 - 1 _{UNI}	11.4 - 1 _{UNI}	10.0 - 3 _{UNI} DELTA	11.4 - 3 _{UNI} DELTA	12.0 - 3 WYE277
Nominal Output Power	9,995 W	11,400 W	9,995 W	11,400 W	12,000 W
Max. Continuous Output Power	9,995 W	11,400 W	9,995 W	11,400 W	12,000 W
AC Output Voltage	208 / 240 / 277	208 / 240 / 277	208 / 240	208 / 240	480 / 277 WYE
Number of Phases	1	1	3	3	3
Admissible Conductor Size (AC)	No. 14 - 4 AWG				
Max. Continuous Utility Backfeed Current	0A				
Nominal Output Frequency	60 HZ				
Operating Frequency Range	59.3 - 60.5 Hz				
Total Harmonic Distortion	< 3 %				
Power Factor	0.85 - 1 ind. / cap.				

GENERAL DATA	10.0 - 1 _{UNI}	11.4 - 1 _{UNI}	10.0 - 3 _{UNI} DELTA	11.4 - 3 _{UNI} DELTA	12.0 - 3 WYE277
Max. Efficiency	96.2				
Unit Dimension (W x H x D)	17.1 x 49.7 x 9.9 in.				
CEC Efficiency	208 V	95.0 %	95.0 %	95.5 %	95.0 %
	240 V	95.5 %	95.5 %	95.5 %	96.0 %
	277 V	96.0 %	96.0 %	n.a.	n.a.
Consumption in Standby (Night)	< 1.5 W				
Consumption During Operation	20 W				
Cooling	Controlled forced ventilation, variable speed fan				
Enclosure Type	NEMA 3R				
Power Stack Weight	84 lbs. (38 kg)				
Wiring Compartment Weight	26 lbs. (12 kg)				
Admissible Ambient Operating Temperature	-13° F...+131° F (-25° C...+55° C)				
Advanced Grid Features	Active and reactive power control, low voltage ride-through				
Compliance	UL 1741-2010, IEEE 1547-2003, IEEE 1547.1, UL 1699B-2013, ANSI/IEEE C62.41, FCC Part 15 A & B, NEC Article 690, C22. 2 No. 107.1-01 (Sept. 2011) California Solar Initiative - Program Handbook - Appendix C: Inverter Integral 5% Meter Performance Specification				

TECHNICAL DATA: FRONIUS IG PLUS ADVANCED(10.0-1_{UNI}, 11.4-1_{UNI}, 10.0-3_{UNI} DELTA, 11.4-3_{UNI} DELTA, 12.0-3 WYE277)

EFFICIENCY	10.0 - 1 _{UNI}	11.4 - 1 _{UNI}	10.0 - 3 _{UNI} DELTA	11.4 - 3 _{UNI} DELTA	12.0 - 3 WYE277
Operating AC Voltage Range	208 V	183 - 229 V (-12 / +10 %)			
	240 V	211 - 264 V (-12 / +10%)			
	277 V	244 - 305 V (-12 / +10%)			
Max. Continuous Output Current	208 V	48.1 A	54.8 A	27.7 A*	31.6 A*
	240 V	41.7 A	47.5 A	24.0 A*	27.4 A*
	277 V	36.1 A	41.2 A	n.a.	n.a.

PROTECTIVE EQUIPMENT	10.0 - 1 _{UNI}	11.4 - 1 _{UNI}	10.0 - 3 _{UNI} DELTA	11.4 - 3 _{UNI} DELTA	12.0 - 3 WYE277
Ground Fault Protection	Internal GFDI (Ground Fault Detector/Interrupter) in accordance with UL 1741-2010 and NEC Art. 690				
DC Reverse Polarity Protection	Internal Diode				
Islanding Protection	Internal; in accordance with UL 1741-2010, IEEE 1547-2003 and NEC				
Over Temperature Protection	Output power derating / active cooling				
Arc-Fault Circuit Protection	Internal AFCI (Arc-Fault Circuit Interrupter); in accordance with UL 1699 Outline of Investigation for Photovoltaic (PV) DC Arc-Fault Circuit Protection (Issue Number 2, January 14, 2013)				

/ Battery Charging Systems / Welding Technology / Solar Electronics

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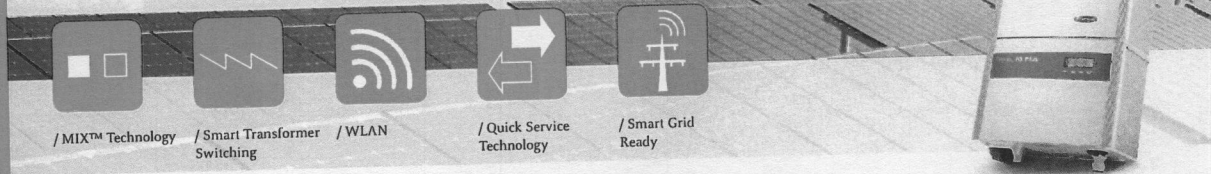
Fronius USA LLC
6797 Fronius Drive
Portage, IN 46368
USA
pv-usa@fronius.com
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M.06.0008.EN v01.2013.as11



FRONIUS IG PLUS ADVANCED INVERTER WITH INTEGRATED AFCI



/ The Fronius IG Plus Advanced is the first complete inverter lineup of the NEC 2011 compliant AFCI protected inverters in the United States. Power classes ranging from 3 to 12 kW in both single and true 3 phase applications with integrated Fronius MIX Technology and wide voltage windows are the perfect match for your system design.

TECHNICAL DATA: FRONIUS IG PLUS ADVANCED (3.0-1_{UNI}, 3.8-1_{UNI}, 5.0-1_{UNI}, 6.0-1_{UNI}, 7.5-1_{UNI})

INPUT DATA	3.0-1 _{UNI}	3.8-1 _{UNI}	5.0-1 _{UNI}	6.0-1 _{UNI}	7.5-1 _{UNI}
Recommended PV-Power (kWp)	2.50 - 3.45	3.20 - 4.40	4.25 - 5.75	5.10 - 6.90	6.35 - 8.60
Nominal Input Current	8.3 A	10.5 A	13.8 A	16.5 A	20.7 A
Max. Usable Input Current	14.0 A	17.8 A	23.0 - 500 V		
MPPT - Voltage Range	260 V				
DC Startup	600 V				
Max. Input Voltage	No. 14 to 6 AWG. For larger wire, use Fronius connecting distributor.				
Admissible Conductor Size (DC)	20 Amps. For higher input current, use Fronius connecting distributor.				
Max. Current per DC Input Terminal					
OUTPUT DATA	3.0-1 _{UNI}	3.8-1 _{UNI}	5.0-1 _{UNI}	6.0-1 _{UNI}	7.5-1 _{UNI}
Nominal Output Power	3,000 W	3,800 W	5,000 W	6,000 W	7,500 W
Max. Continuous Output Power	3,000 W	3,800 W	208 / 240 / 277		
AC Output Voltage	1				
Number of Phases	1				
Admissible Conductor Size (AC)	No. 14 - 4 AWG				
Max. Continuous Utility Backfeed Current	0A				
Nominal Output Frequency	60 Hz				
Operating Frequency Range	59.3 - 60.5 Hz				
Total Harmonic Distortion	< 3 %				
Power Factor	0.85 - 1 ind. / cap.				
GENERAL DATA	3.0-1 _{UNI}	3.8-1 _{UNI}	5.0-1 _{UNI}	6.0-1 _{UNI}	7.5-1 _{UNI}
Max. Efficiency	96.2				
Unit Dimensions (W x H x D)	17.1 x 26.5 x 9.9 in.	17.1 x 26.5 x 9.9 in.	17.1 x 38.1 x 9.9 in.	17.1 x 38.1 x 9.9 in.	17.1 x 38.1 x 9.9 in.
CEC Efficiency	208 V	95.0 %	95.0 %	95.0 %	95.0 %
	240 V	95.5 %	95.5 %	96.0 %	95.5 %
	277 V	96.0 %	96.0 %	96.0 %	96.0 %
Consumption in Standby (Night)	< 1.5 W				
Consumption During Operation	8 W	8 W	14 W	14 W	14 W
Cooling	Controlled forced ventilation, variable speed fan				
Enclosure Type	NEMA 3R				
Power Stack Weight	31 lbs. (14 kg)	31 lbs. (14 kg)	57 lbs. (26 kg)	57 lbs. (26 kg)	57 lbs. (26 kg)
Wiring Compartment Weight	24 lbs. (11 kg)				
Admissible Ambient Operating Temperature	-13° F...+131° F (-25° C...+55° C)				
Advanced Grid Features	Active and reactive power control, low voltage ride-through				
Compliance	UL 1741-2010, IEEE 1547-2003, IEEE 1547.1, UL 1699B-2013, ANSI/IEEE C62.41, FCC Part 15 A & B, NEC Article 690, C22. 2 No. 1071-01 (Sept. 2011) California Solar Initiative - Program Handbook - Appendix C. Inverter Integral 5% Meter Performance Specification				

TECHNICAL DATA: FRONIUS IG PLUS ADVANCED (3.0-1_{UNI}, 3.8-1_{UNI}, 5.0-1_{UNI}, 6.0-1_{UNI}, 7.5-1_{UNI})

EFFICIENCY	3.0-1 _{UNI}	3.8-1 _{UNI}	5.0-1 _{UNI}	6.0-1 _{UNI}	7.5-1 _{UNI}
Operating AC Voltage Range	208 V	183 - 229 V (-12 / +10%)			
	240 V	211 - 264 V (-12 / +10%)			
	277 V	244 - 305 V (-12 / +10%)			
Max. Continuous Output Current	208 V	14.4 A	18.3 A	24.0 A	28.8 A
	240 V	12.5 A	15.8 A	20.8 A	25.0 A
	277 V	10.8 A	13.7 A	18.1 A	21.7 A
PROTECTIVE EQUIPMENT	3.0-1 _{UNI}	3.8-1 _{UNI}	5.0-1 _{UNI}	6.0-1 _{UNI}	7.5-1 _{UNI}
Ground Fault Protection	Internal GFDI (Ground Fault Detector/Interrupter) in accordance with UL 1741-2010 and NEC Art. 690				
DC Reverse Polarity Protection	Internal Diode				
Islanding Protection	Internal; in accordance with UL 1741-2010, IEEE 1547-2003 and NEC				
Over Temperature Protection	Output power derating / active cooling				
Arc-Fault Circuit Protection	Internal AFCI (Arc-Fault Circuit Interrupter); in accordance with UL 1699 Outline of Investigation for Photovoltaic (PV) DC Arc-Fault Circuit Protection (Issue Number 2, January 14, 2013)				

WARNING: PHOTOVOLTAIC POWER SOURCE

Label Location:
(C)(CB)
Per Code:
NEC 690.31.G.3

PHOTOVOLTAIC DC
DISCONNECT

Label Location:
(DC) (INV)
Per Code:
NEC 690.14.C.2

MAXIMUM POWER-
POINT CURRENT (Imp) A
MAXIMUM POWER-
POINT VOLTAGE (Vmp) V
MAXIMUM SYSTEM
VOLTAGE (Voc) V
SHORT-CIRCUIT
CURRENT (Isc) A

Label Location:
(DC) (INV)
Per Code:
NEC 690.53

WARNING

ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION
DC VOLTAGE IS
ALWAYS PRESENT WHEN
SOLAR MODULES ARE
EXPOSED TO SUNLIGHT

Label Location:
(DC) (CB)
Per Code:
NEC 690.17(4)

WARNING

ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

Label Location:
(AC)(POI)
Per Code:
NEC 690.17.E

WARNING

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

Label Location:
(DC) (INV)
Per Code:
NEC 690.35(F)
TO BE USED WHEN
INVERTER IS
UNGROUNDING

WARNING

INVERTER OUTPUT
CONNECTION
DO NOT RELOCATE
THIS OVERCURRENT
DEVICE

Label Location:
(POI)
Per Code:
NEC 690.64.B.7

PHOTOVOLTAIC POINT OF
INTERCONNECTION
WARNING: ELECTRIC SHOCK
HAZARD. DO NOT TOUCH
TERMINALS. TERMINALS ON
BOTH THE LINE AND LOAD SIDE
MAY BE ENERGIZED IN THE OPEN
POSITION. FOR SERVICE
DE-ENERGIZE BOTH SOURCE
AND MAIN BREAKER.
PV POWER SOURCE
MAXIMUM AC A
OPERATING CURRENT
MAXIMUM AC V
OPERATING VOLTAGE

Label Location:
(POI)
Per Code:
NEC 690.17.4; NEC 690.54

WARNING

ELECTRIC SHOCK HAZARD
IF A GROUND FAULT IS INDICATED
NORMALLY GROUNDING
CONDUCTORS MAY BE
UNGROUNDING AND ENERGIZED

Label Location:
(DC) (INV)
Per Code:
NEC 690.5(C)

CAUTION

PHOTOVOLTAIC SYSTEM
CIRCUIT IS BACKFED

Label Location:
(D) (POI)
Per Code:
NEC 690.64.B.4

PHOTOVOLTAIC AC
DISCONNECT

Label Location:
(AC) (POI)
Per Code:
NEC 690.14.C.2

CAUTION
DUAL POWER SOURCE
SECOND SOURCE IS
PHOTOVOLTAIC SYSTEM

Label Location:
(POI)
Per Code:
NEC 690.64.B.4

MAXIMUM AC A
OPERATING CURRENT
MAXIMUM AC V
OPERATING VOLTAGE

Label Location:
(AC) (POI)
Per Code:
NEC 690.54

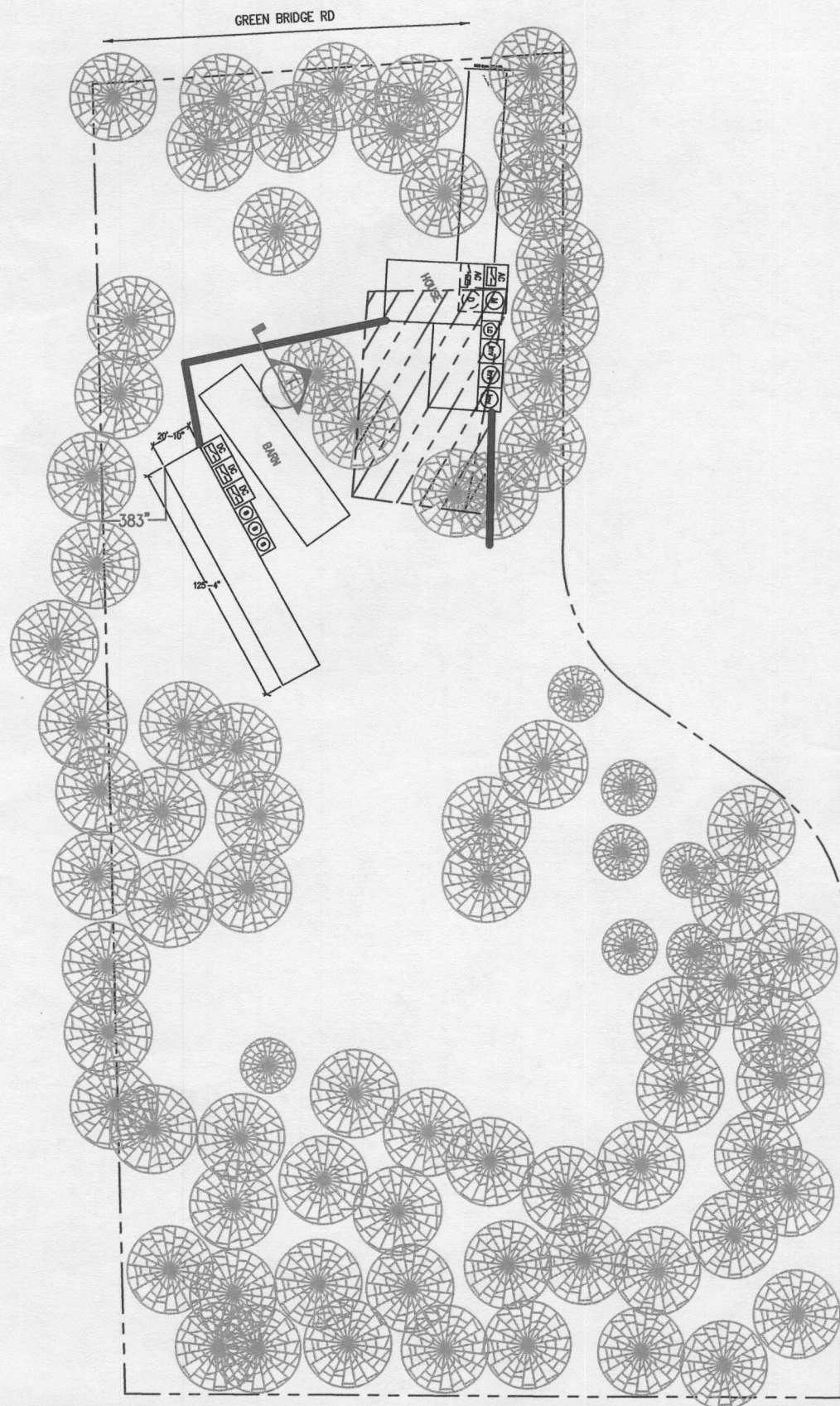
(AC): AC Disconnect
(C): Conduit
(CB): Combiner Box
(D): Distribution Panel
(DC): DC Disconnect
(IC): Interior Run Conduit
(INV): Inverter With Integrated DC Disconnect
(LC): Load Center
(M): Utility Meter
(POI): Point of Interconnection

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SC Label Set

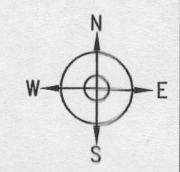
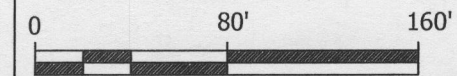


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PROPERTY PLAN

Scale: 1" = 80'-0"



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JOB NUMBER: JB-210717 00
 MOUNTING SYSTEM: Comp Mount Type C
 MODULES: (148) YINGLI # YL250P-29b
 INVERTER: Multiple Inverters

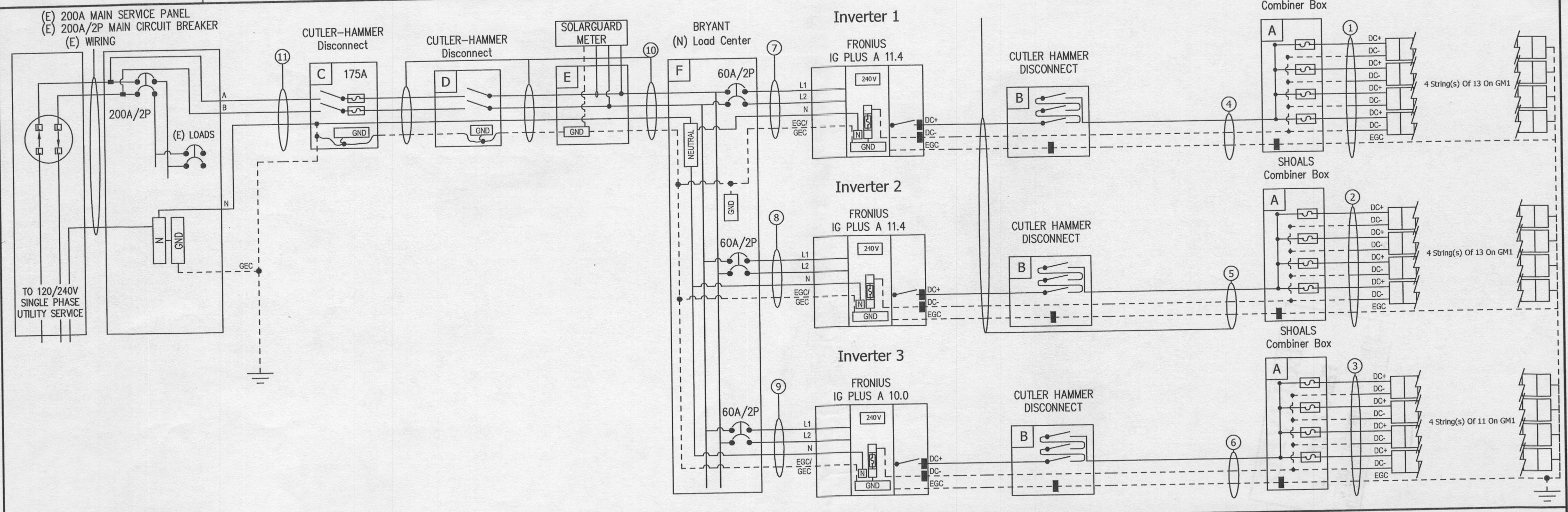
PREMISE OWNER:
 MOY, REBECCA
 5159 GREEN BRIDGE RD
 DAYTON, MD 21036
 (301) 332-6914

DESCRIPTION:
 MOY RESIDENCE
 37 KW PV ARRAY
 PAGE NAME:
 PROPERTY PLAN

DESIGN:
 Qais Feroz
 SHEET: PV 4
 REV: 4
 DATE: 2/19/2015

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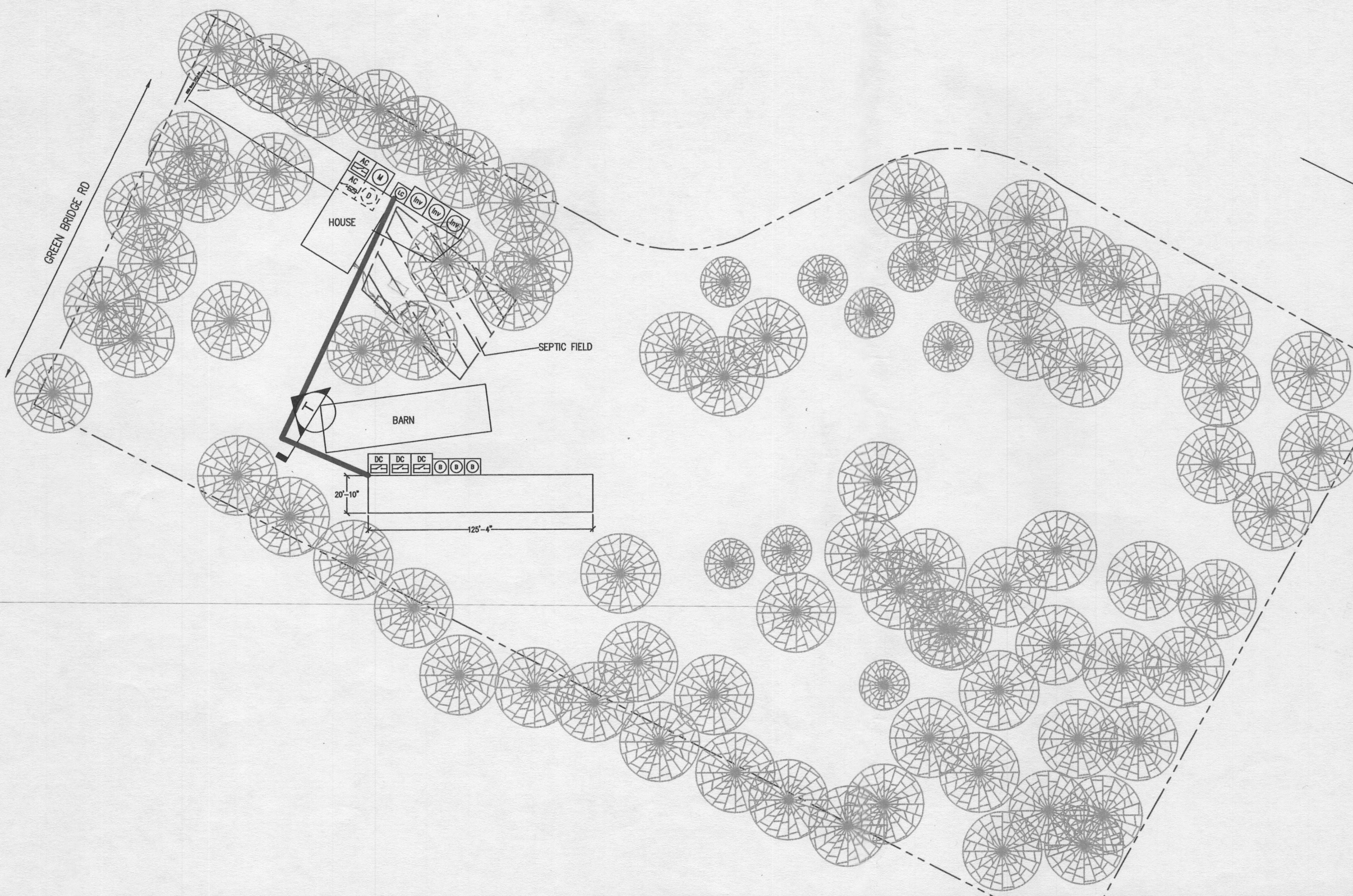
GROUND SPECS	MAIN PANEL SPECS	GENERAL NOTES	INVERTER SPECS	MODULE SPECS	LICENSE
BOND (N) #4 GEC TO (N) GROUND ROD AT PANEL WITH IRREVERSIBLE CRIMP	Panel Number: SQUARE D Meter Number: G156252333 Underground Service Entrance	Inv 1: DC Negatively Grounded Inv 2: DC Negatively Grounded Inv 3: DC Negatively Grounded Tie-In: Supply Side Connection	INV 1 - (1)FRONIUS # IG PLUS A 11.4 LABEL: A AFCI Inverter; 11400W, 240V, 95.5% INV 2 - (1)FRONIUS # IG PLUS A 11.4 LABEL: B AFCI Inverter; 11400W, 240V, 95.5% INV 3 - (1)FRONIUS # IG PLUS A 10.0 LABEL: C AFCI Inverter; 10000W, 240V, 95.5%	(4) YINGLI # YL250P-29b PV Module; 250W, 226.2W PTC, H4, 40mm, YGE-Z 60, Black Frame, ZEP Voc: 37.6 Vpmax: 29.8 Isc AND Imp ARE SHOWN IN THE DC STRINGS IDENTIFIER	#11805 MASTER ELECTRICIAN Enabled Nicholas Meyers



Voc* = MAX VOC AT MIN TEMP		AC		B		A		DC	
POI	(1) Ground Rod; 5/8" x 8', Copper (2) ILSCO # IPC 4/0-#6 Insulation Piercing Connector; Main 4/0-4, Tap 6-14	C	(1) CUTLER-HAMMER # DG224NRK Disconnect; 200A, 240Vdc, Fusible, NEMA 3R (1) CUTLER-HAMMER # DG200NK Ground/Neutral Kit; 200A General, Heavy Duty (DG, DH), NEMA 1, 3R (1) CUTLER-HAMMER # DS16FK Class R Fuse Kit	B	(3) CUTLER-HAMMER # DH162URKN Disconnect; 60A, 600Vdc, Non-Fusible, NEMA 3R	A	(3) SolarBOS CCS-06-15-4XP Combiner Box; 4 circuit, 15A, 600V, NEMA 4X, Polycarbonate (12) FERRAZ SHAWMUT # ATM15 Fuse; 15A, 600VDC, Midget (3) ZEP # 850-1196-002 Universal Box Bracket; [PKG B]		
F	(1) BRYANT # BR1224L200R Load Center; 200A, 120/240V, NEMA 3R (3) CUTLER-HAMMER # BR260 Breaker; 60A/2P, 2 Spaces	D	(1) CUTLER-HAMMER # DG324URK Disconnect; 200A, 240Vdc, Non-Fusible, NEMA 3R (1) CUTLER-HAMMER # DG200NK Ground/Neutral Kit; 200A General, Heavy Duty (DG, DH), NEMA 1, 3R			Gnd	(1) AWG #6, Solid Bare Copper (1) Ground Rod; 5/8" x 8', Copper		
SSC	SUPPLY SIDE CONNECTION. DISCONNECTING MEANS SHALL BE SUITABLE AS SERVICE EQUIPMENT AND SHALL BE RATED PER NEC.	E	SolarGuard Monitoring System			(N) ARRAY GROUND PER 690.47(D). NOTE: PER EXCEPTION NO. 2, ADDITIONAL ELECTRODE MAY NOT BE REQUIRED DEPENDING ON LOCATION OF (E) ELECTRODE.			
10	(1) AWG #2/0, THWN-2, Black (1) AWG #2/0, THWN-2, Black TAPE WIRE IN RED TAPE (1) AWG #2/0, THWN-2, Black NEUTRAL Vmp = 240 VAC Imp = 136.6 AAC (1) AWG #4, THWN-2, Green EGC/GEC - (1) Conduit Kit; 1-1/2" EMT	7	(1) AWG #6, THWN-2, Black (1) AWG #6, THWN-2, Red (1) AWG #10, THWN-2, White NEUTRAL Vmp = 240 VAC Imp = 47.5 AAC (1) AWG #4, THWN-2, Green EGC/GEC - (1) Conduit Kit; 3/4" EMT	4	(1) AWG #4, THWN-2, Black Voc* = 568.57VDC Isc = 35.68 ADC (1) AWG #4, THWN-2, White Vmp = 387.4 VDC Imp = 33.56 ADC (1) AWG #10, THWN-2, Green EGC - (1) Conduit Kit; 2" PVC, Sch. 40 (1) AWG #4, THWN-2, Black Voc* = 568.57VDC Isc = 35.68 ADC (1) AWG #4, THWN-2, White Vmp = 387.4 VDC Imp = 33.56 ADC	1	(8) AWG #10, USE-2/RHW-2, Black Voc* = 568.57VDC Isc = 8.92 ADC (1) AWG #10, Solid Bare Copper EGC Vmp = 387.4 VDC Imp = 8.39 ADC		
11	(1) AWG #2/0, THWN-2, Black TAPE WIRE IN RED TAPE (1) AWG #2/0, THWN-2, Black NEUTRAL Vmp = 240 VAC Imp = 136.6 AAC (1) AWG #2/0, THWN-2, Black EGC - (1) Conduit Kit; 1-1/2" EMT (1) AWG #4, Solid Bare Copper	8	(1) AWG #6, THWN-2, Black (1) AWG #6, THWN-2, Red (1) AWG #10, THWN-2, White NEUTRAL Vmp = 240 VAC Imp = 47.5 AAC (1) AWG #4, THWN-2, Green EGC/GEC - (1) Conduit Kit; 3/4" EMT	5	(1) AWG #4, THWN-2, Black Voc* = 481.1 VDC Isc = 35.68 ADC (1) AWG #4, THWN-2, White Vmp = 327.8 VDC Imp = 33.56 ADC (1) AWG #10, THWN-2, Green EGC	2	(8) AWG #10, USE-2/RHW-2, Black Voc* = 568.57VDC Isc = 8.92 ADC (1) AWG #10, Solid Bare Copper EGC Vmp = 387.4 VDC Imp = 8.39 ADC		
		9	(1) AWG #6, THWN-2, Black (1) AWG #6, THWN-2, Red (1) AWG #10, THWN-2, White NEUTRAL Vmp = 240 VAC Imp = 41.6 AAC (1) AWG #4, THWN-2, Green EGC/GEC - (1) Conduit Kit; 3/4" EMT	6	(1) AWG #4, THWN-2, Black (1) AWG #4, THWN-2, White (1) AWG #10, THWN-2, Green EGC	3	(8) AWG #10, USE-2/RHW-2, Black Voc* = 481.1 VDC Isc = 8.92 ADC (1) AWG #10, Solid Bare Copper EGC Vmp = 327.8 VDC Imp = 8.39 ADC		

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	MOUNTING SYSTEM: Comp Mount Type C MODULES: (148) YINGLI # YL250P-29b INVERTER: Multiple Inverters	PAGE NAME: THREE LINE DIAGRAM	SHEET: PV 3 REV: 2/19/2015 DATE:	3055 Clearview Way San Mateo, CA 94402 T: (650) 638-1028 F: (650) 638-1029 (888)-SOL-CITY (765-2489) www.solarcity.com	

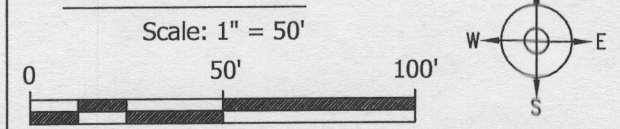
MP1 PITCH: 18 ARRAY PITCH: 18
 AZIMUTH: 180 ARRAY AZIMUTH: 180
 MATERIAL: Comp Shingle STORY: 2 Stories



LEGEND

- (E) UTILITY METER & WARNING LABEL
- INVERTER W/ INTEGRATED DC DISCO & WARNING LABELS
- DC DISCONNECT & WARNING LABELS
- AC DISCONNECT & WARNING LABELS
- DC JUNCTION/COMBINER BOX & LABELS
- DISTRIBUTION PANEL & LABELS
- LOAD CENTER & WARNING LABELS
- DEDICATED PV SYSTEM METER
- STANDOFF LOCATIONS
- CONDUIT RUN ON EXTERIOR
- CONDUIT RUN ON INTERIOR
- GATE/FENCE
- HEAT PRODUCING VENTS ARE RED
- INTERIOR EQUIPMENT IS DASHED

SITE PLAN



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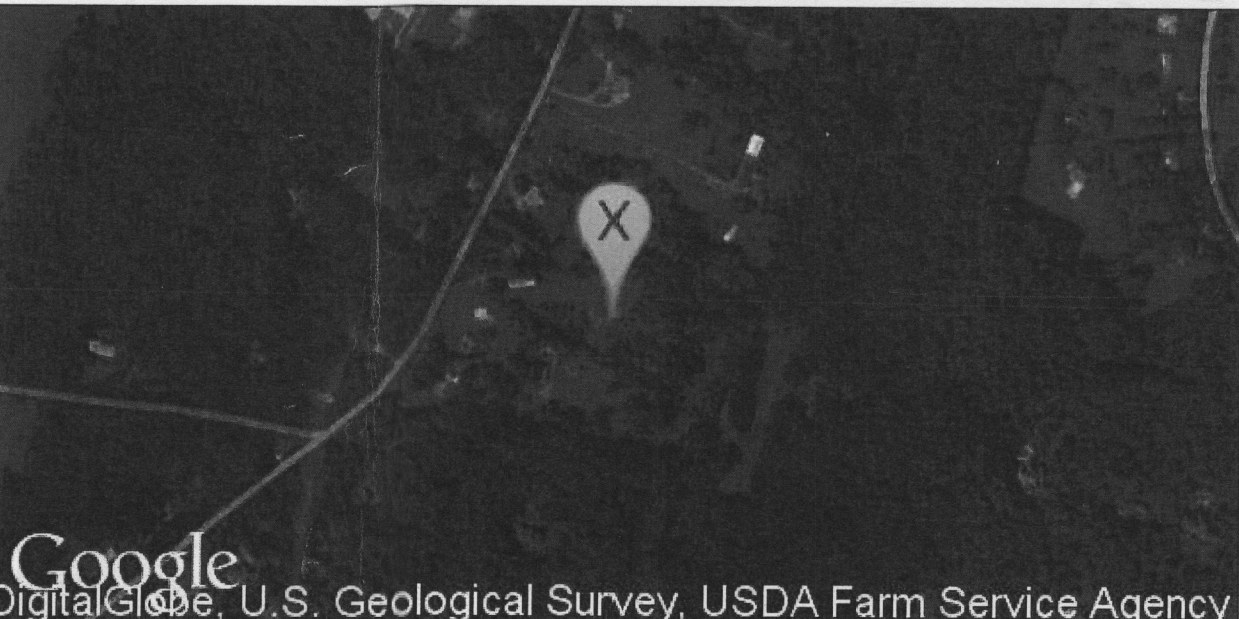
JOB NUMBER: JB-210717 00
 MOUNTING SYSTEM:
 Comp Mount Type C
 MODULES:
 (148) YINGLI # YL250P-29b
 INVERTER:
 Multiple Inverters

PREMISE OWNER:
 MOY, REBECCA
 5159 GREEN BRIDGE RD
 DAYTON, MD 21036
 (301) 332-6914

DESCRIPTION:
 MOY RESIDENCE
 37 KW PV ARRAY
 PAGE NAME:
 SITE PLAN

DESIGN:
 Qais Feroz
 SHEET: PV 2
 REV: 2
 DATE: 2/19/2015

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 San Mateo, CA 94402
 T: (650) 638-1028 F: (650) 638-1029
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ABBREVIATIONS	ELECTRICAL NOTES	JURISDICTION NOTES																								
<p>A AMPERE AC ALTERNATING CURRENT BLDG BUILDING CONC CONCRETE DC DIRECT CURRENT EGC EQUIPMENT GROUNDING CONDUCTOR (E) EXISTING EMT ELECTRICAL METALLIC TUBING GALV GALVANIZED GEC GROUNDING ELECTRODE CONDUCTOR GND GROUND HDG HOT DIPPED GALVANIZED I CURRENT Imp CURRENT AT MAX POWER Isc SHORT CIRCUIT CURRENT kVA KILOVOLT AMPERE kW KILOWATT LBW LOAD BEARING WALL MIN MINIMUM (N) NEW NEUT NEUTRAL NTS NOT TO SCALE OC ON CENTER PL PROPERTY LINE POI POINT OF INTERCONNECTION PV PHOTOVOLTAIC SCH SCHEDULE SS STAINLESS STEEL STC STANDARD TESTING CONDITIONS TYP TYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY V VOLT Vmp VOLTAGE AT MAX POWER Voc VOLTAGE AT OPEN CIRCUIT W WATT 3R NEMA 3R, RAIN TIGHT</p>	<p>1. WHERE ALL TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION, A SIGN WILL BE PROVIDED WARNING OF THE HAZARDS PER ART. 690.17. 2. EACH UNGROUNDED CONDUCTOR OF THE MULTIWIRED BRANCH CIRCUIT WILL BE IDENTIFIED BY PHASE AND SYSTEM PER ART. 210.5. 3. A NATIONALLY-RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH ART. 110.3. 4. CIRCUITS OVER 250V TO GROUND SHALL COMPLY WITH ART. 250.97, 250.92(B) 5. DC CONDUCTORS EITHER DO NOT ENTER BUILDING OR ARE RUN IN METALLIC RACEWAYS OR ENCLOSURES TO THE FIRST ACCESSIBLE DC DISCONNECTING MEANS PER ART. 690.31(E). 6. ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF AT ALL ENTRY INTO BOXES AS REQUIRED BY UL LISTING. 7. MODULE FRAMES SHALL BE GROUNDED AT THE UL-LISTED LOCATION PROVIDED BY THE MANUFACTURER USING UL LISTED GROUNDING HARDWARE. 8. MODULE FRAMES, RAIL, AND POSTS SHALL BE BONDED WITH EQUIPMENT GROUND CONDUCTORS AND GROUNDED AT THE MAIN ELECTRIC PANEL. 9. THE DC GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED ACCORDING TO ART. 250.166(B) & 690.47.</p>	<p>ALL WORK SHALL COMPLY WITH THE 2012 IRC.</p>																								
<p>LICENSE</p> <p>#11805 MASTER ELECTRICIAN Nicholaus Meyers</p> <p>MODULE GROUNDING METHOD: *</p> <p>AHJ: Howard County</p> <p>UTILITY: BGE (Baltimore Gas and Electric)</p>	<p>GENERAL NOTES</p> <p>1. THIS SYSTEM IS GRID-INTERTIED VIA A UL-LISTED POWER-CONDITIONING INVERTER. 2. THIS SYSTEM HAS NO BATTERIES, NO UPS. 3. SOLAR MOUNTING FRAMES ARE TO BE GROUNDED. 4. ALL WORK TO BE DONE TO THE 2012 INTERNATIONAL RESIDENTIAL CODE.</p>	<p>VICINITY MAP</p>  <p>INDEX</p> <p>PV1 COVER SHEET PV2 SITE PLAN PV3 THREE LINE DIAGRAM PV4 PROPERTY PLAN Cutsheets Attached</p> <table border="1"> <thead> <tr> <th>REV</th> <th>BY</th> <th>DATE</th> <th>COMMENTS</th> </tr> </thead> <tbody> <tr> <td>REV A</td> <td>NAME</td> <td>DATE</td> <td>COMMENTS</td> </tr> <tr> <td>*</td> <td>*</td> <td>*</td> <td>*</td> </tr> <tr> <td>*</td> <td>*</td> <td>*</td> <td>*</td> </tr> <tr> <td>*</td> <td>*</td> <td>*</td> <td>*</td> </tr> <tr> <td>*</td> <td>*</td> <td>*</td> <td>*</td> </tr> </tbody> </table>	REV	BY	DATE	COMMENTS	REV A	NAME	DATE	COMMENTS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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JOB NUMBER: JB-210717 00

MOUNTING SYSTEM:
Comp Mount Type C

MODULES:
(148) YINGLI # YL250P-29b

INVERTER:
Multiple Inverters

PREMISE OWNER:
MOY, REBECCA
5159 GREEN BRIDGE RD
DAYTON, MD 21036

(301) 332-6914

DESCRIPTION:
MOY RESIDENCE
37 KW PV ARRAY

PAGE NAME:
COVER SHEET

DESIGN:
Qais Feroz

SHEET: PV 1
REV: 1
DATE: 2/19/2015



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