

Building Address: 12300 Folly Quarter Road  
Ellicott City, MD 21042

Suite/Apt. # \_\_\_\_\_ (SDP) WP/BA #: 04-64

Census Tract: \_\_\_\_\_ Subdivision: 0000

Section: \_\_\_\_\_ Area: \_\_\_\_\_ Lot: \_\_\_\_\_

Tax Map: 0022 Parcel: 0046 Grid: 0024

Zoning: \_\_\_\_\_ Map Coordinates: \_\_\_\_\_ Lot Size: 196.26 Acres

Existing Use: Religious Facility

Proposed Use: No Change

Estimated Construction Cost: \$ 415,000

Description of Work: Installation of 244 kilowatt solar photovoltaic system, ground mounted, consisting of (800) 305-watt solar panels and (10) 18-kilowatt inverters

Occupant or Tenant: \_\_\_\_\_

Was tenant space previously occupied?  Yes  No

Contact Name: Matt Gitt

Address: 9000 VIRGINIA MANOR ROAD, SUITE 250

City: BELTSVILLE State: MD Zip Code: 20705

Phone: 301-875-5532 Fax: 866-269-8329

Email: mgitt@solarcity.com

Property Owner's Name: Novitate of Franciscan Fathers Minor Conventuals

Address: 12300 Folly Quarter Road

City: Ellicott City State: MD Zip Code: 21042

Home Phone: 410-531-1400 Work Phone: \_\_\_\_\_

Applicant's Name & Mailing Address, (If other than stated herein):  
MATT GITT/ SOLARCITY CORPORATION, 9000 VIRGINIA MANOR ROAD, SUITE 250  
Beltsville, MD 20705

Phone: 301-875-5532 Fax: 866-269-8329

Email: mgitt@solarcity.com

Contractor Company: SolarCity Corporation

Contact Person: MATT GITT

Address: 9000 VIRGINIA MANOR ROAD, SUITE 250

City: BELTSVILLE State: MD Zip Code: 20705

License No.: MHIC 128948

Phone: 301-875-5532 Fax: 866-269-8329

Email: mgitt@solarcity.com

Engineer/Architect Company: SolarCity Corporation

Responsible Design Prof.: Allen Chang

Address: 3055 Clearview Way

City: San Mateo State: CA Zip Code: 94402

Phone: 888-765-2489 x55783 Fax: 650-362-2136

Email: achang@solarcity.com

**BUILDING DESCRIPTION - COMMERCIAL**

Building Characteristics	Utilities
Height: <u>8'</u>	<u>Water Supply</u>
No. of stories: _____	<input type="checkbox"/> Public
Gross area, sq. ft./floor: _____	<input checked="" type="checkbox"/> Private
<u>30,360</u>	<u>Sewage Disposal</u>
Area of construction (sq. ft.): _____	<input type="checkbox"/> Public
_____	<input checked="" type="checkbox"/> Private
Use group: _____	Electric: <input type="checkbox"/> Yes <input type="checkbox"/> No
_____	Gas: <input type="checkbox"/> Yes <input type="checkbox"/> No
<u>Construction type:</u>	<u>Heating System</u>
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Electric <input type="checkbox"/> Oil
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas
<input type="checkbox"/> Masonry	<u>Sprinkler System:</u>
<input type="checkbox"/> Wood Frame	<input type="checkbox"/> N/A
<input type="checkbox"/> State Certified Modular	<input type="checkbox"/> Full
<input checked="" type="checkbox"/> <u>Roadside Tree Project Permit</u>	<input type="checkbox"/> Partial
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Other Suppression
<u>Roadside Tree Project Permit #</u>	No. of Heads: _____

**BUILDING DESCRIPTION - RESIDENTIAL**

Building Characteristics	Utilities
<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	<u>Water Supply</u>
<u>Depth</u> <u>Width</u>	<input type="checkbox"/> Public
<u>1st floor:</u>	<input type="checkbox"/> Private
<u>2nd floor:</u>	<u>Sewage Disposal</u>
Basement: _____	<input type="checkbox"/> Public
<input type="checkbox"/> Finished Basement	<input type="checkbox"/> Private
<input type="checkbox"/> Unfinished Basement	Electric: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Crawl Space	Gas: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Slab on Grade	<u>Heating System</u>
No. of Bedrooms: _____	<input type="checkbox"/> Electric
<u>Multi-family Dwelling</u>	<input type="checkbox"/> Oil
No. of efficiency units: _____	<input type="checkbox"/> Natural Gas
No. of 1 BR units: _____	<input type="checkbox"/> Propane Gas
No. of 2 BR units: _____	
No. of 3 BR units: _____	
Other Structure: _____	
Dimensions: _____	
Footings: _____	<input checked="" type="checkbox"/> <u>Roadside Tree Project Permit</u>
Roof: _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> State Certified Modular	<u>Roadside Tree Project Permit #</u>
<input type="checkbox"/> Manufactured Home	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Matt Gitt  
 Applicant's Signature  
 mgitt@solarcity.com  
 Email Address  
 Project Manager/SolarCity Corporation  
 Title/Company

Matt Gitt  
 Print Name  
 10/6  
 09/02/2014  
 Date

**RECEIVED**

OCT 06 2014

LICENSES & PERMITS  
 DIVISION

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

\*\*PLEASE WRITE NEATLY & LEGIBLY\*\*

FOR OFFICE USE ONLY

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	10/31/14	H. Oswald
Fire Protection		

Is Sediment Control approval required for issuance?  Yes  No  
 CONTINGENCY CONSTRUCTION START  
 ONE STOP SHOP

Per DED (applicant said)  
 DED form not required

DPZ SETBACK INFORMATION

Front: \_\_\_\_\_

Rear: \_\_\_\_\_

Side: \_\_\_\_\_

Side St.: \_\_\_\_\_

All minimum setbacks met?  Yes  No

Is Entrance Permit Required?  Yes  No

Historic District?  Yes  No

Lot Coverage for New Town Zone: \_\_\_\_\_

SDP/Red-line approval date: \_\_\_\_\_

Filling Fee	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$ 110
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$

Check 751920

# 244 KW SOLAR PV SYSTEM FOR ORDER OF FRIARS MINOR CONVENTUAL, ST. ANTHONY OF PADUA PROVINCE

## APN: 1403285332

### PROJECT TEAM

DESIGN PROFESSIONAL  
IN RESPONSIBLE CHARGE:

ALLEN CHANG  
SOLARCITY, INC.  
3055 CLEARVIEW WAY  
SAN MATEO, CA 94402  
TEL: (888) 765-2489 x55783  
FAX: (650) 362-2136  
ACHANG@SOLARCITY.COM

ELECTRICAL ENGINEER:

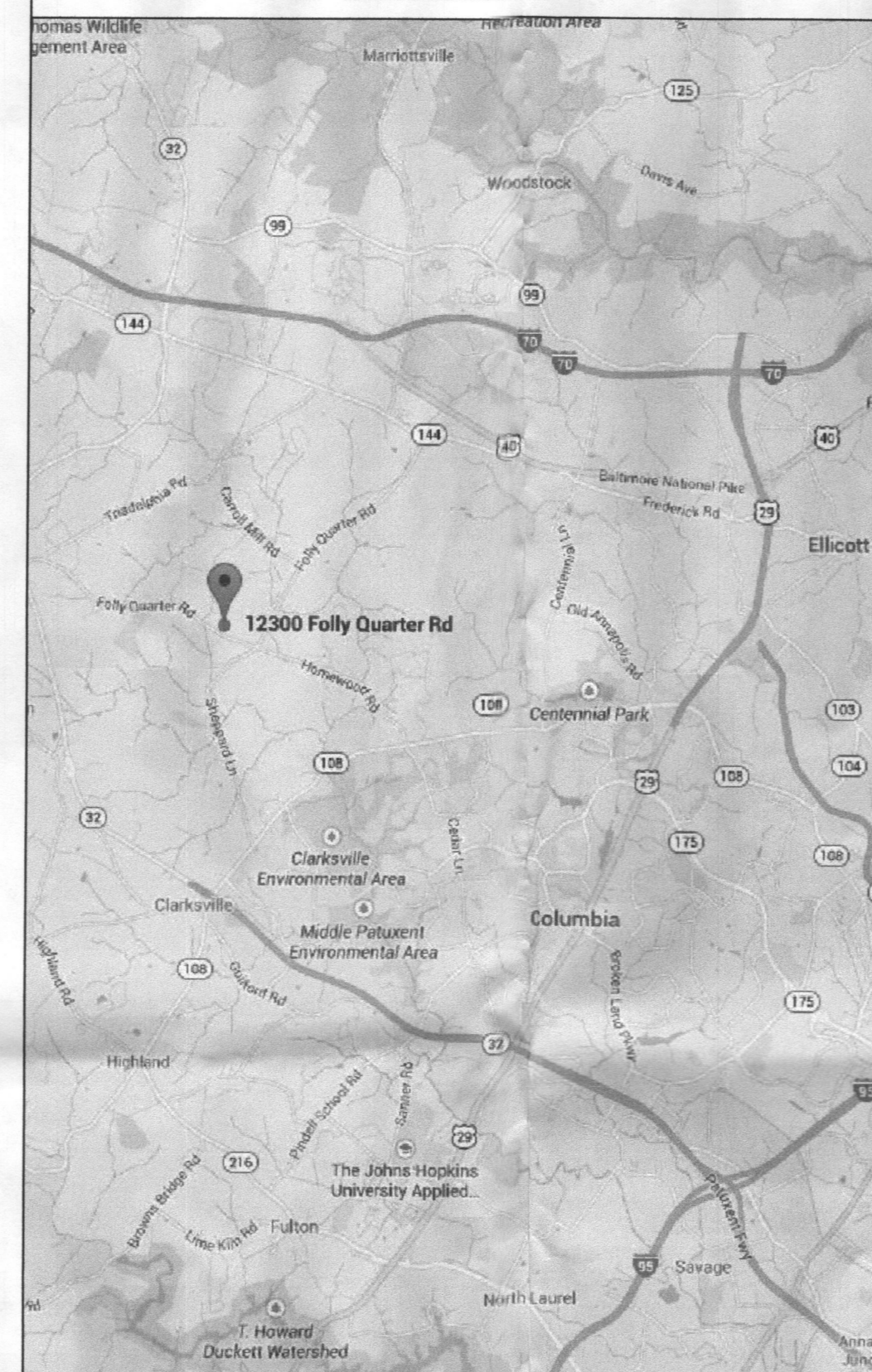
MATTHEW BAILEY  
SOLARCITY, INC.  
3055 CLEARVIEW WAY  
SAN MATEO, CA 94402  
TEL: (720) 292-1521  
FAX: (650) 362-2136  
MBAILEY@SOLARCITY.COM



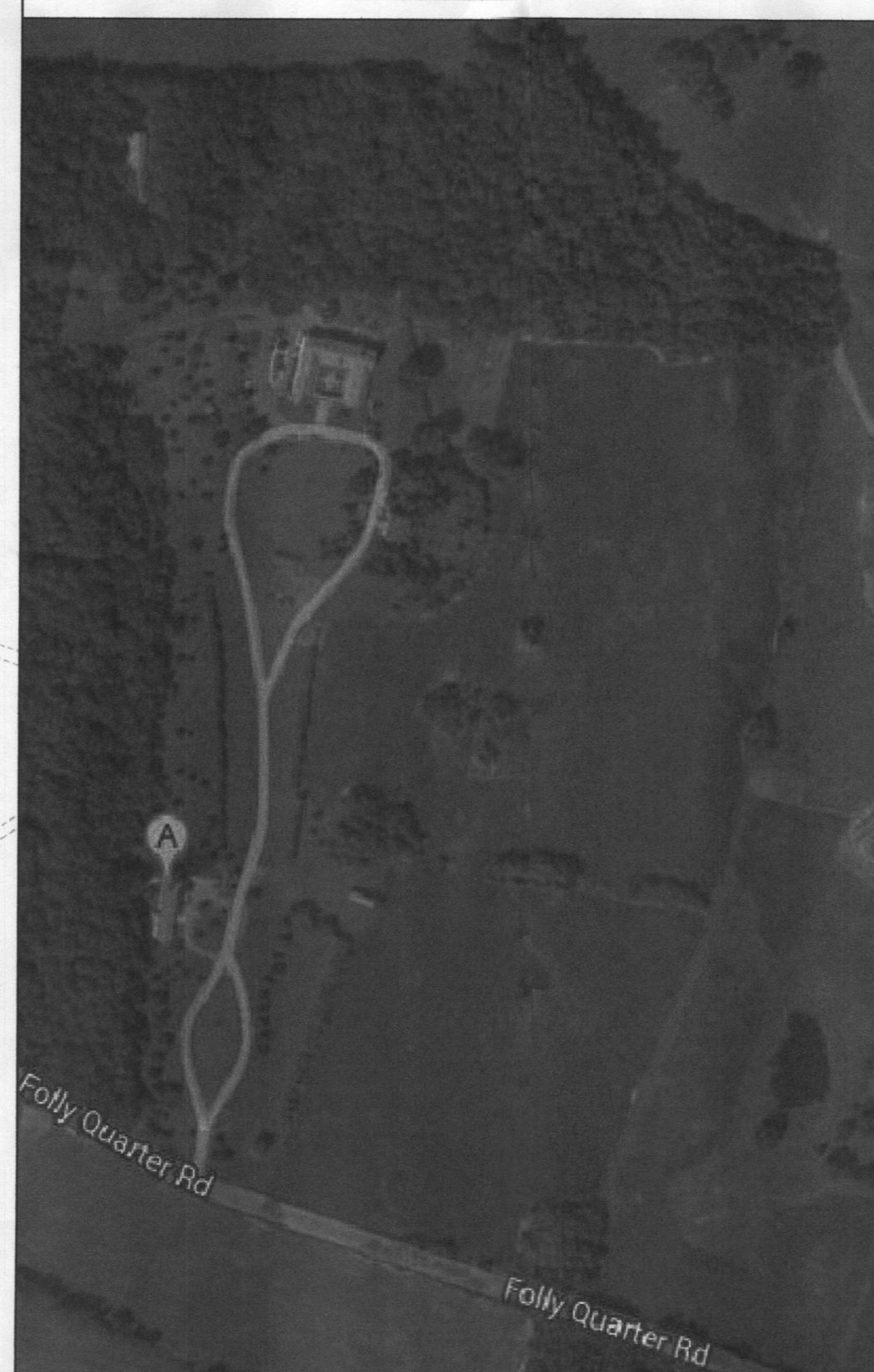
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T: (888) 765-2489 | F: (650) 362-2136  
(888) SOL-CITY (765-2489) | www.solarcity.com

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HEREIN CONTAINED SHALL NOT BE USED  
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SOLARCITY INC., NOR SHALL IT BE  
DISCLOSED IN WHOLE OR IN PART TO  
OTHERS OUTSIDE THE RECIPIENT'S  
ORGANIZATION, EXCEPT IN CONNECTION  
WITH THE SALE AND USE OF THE  
RESPECTIVE SOLARCITY EQUIPMENT,  
WITHOUT THE WRITTEN PERMISSION OF  
SOLARCITY INC.

### VICINITY MAP



### AERIAL MAP



### GENERAL NOTES

ALL WORK SHALL COMPLY WITH ALL STATE  
AND LOCAL CODES AND ANY OTHER  
REGULATING AUTHORITIES WHICH HAVE  
AUTHORITY OVER ANY PORTION OF THE  
WORK.

DRAWINGS HAVE BEEN DETAILED IN  
COMPLIANCE WITH UL LISTING  
REQUIREMENTS, OSFM SOLAR  
PHOTOVOLTAIC INSTALLATION  
REQUIREMENTS, AND BUILDING CODES  
FOR THE MATERIALS SPECIFIED.

PRIOR TO COMMENCEMENT OF ANY WORK,  
THE CONTRACTOR SHALL VERIFY EXISTING  
CONDITIONS AND NOTIFY THE DESIGN  
PROFESSIONAL IN RESPONSIBLE CHARGE  
FROM SOLARCITY OF ANY DISCREPANCIES.  
ANY WORK PERFORMED IN CONFLICT WITH  
THE CONTRACT DOCUMENTS SHALL BE  
CORRECTED AT THE SUBCONTRACTORS  
SOLE EXPENSE.

SUBCONTRACTOR INITIATED CHANGES  
SHALL BE SUBMITTED IN WRITING TO  
SOLARCITY FOR APPROVAL BEFORE MAKING  
ANY CHANGES. DEVIATION FROM PLANS  
BEFORE WRITTEN APPROVAL FROM  
SOLARCITY PLACES LIABILITY ON THE  
SUBCONTRACTOR.

ALL EQUIPMENT SHALL BE MOUNTED AS  
SHOWN. WHERE DETAILS ARE NOT  
PROVIDED, CONTRACTOR SHALL USE  
STANDARD CONSTRUCTION PRACTICES.

ALL SURFACES SHALL BE PATCHED AND  
PAINTED AROUND NEW DEVICES AND  
EQUIPMENT TO MATCH EXISTING FINISHES.

ANY METAL SHAVINGS FROM SITE WORK  
SHALL BE CLEANED FROM ALL SURFACES  
WHERE OXIDIZED OR CONDUCTIVE METAL  
SHAVINGS MY CAUSE RUST, ELECTRICAL  
SHORT CIRCUITS, OR OTHER DAMAGE.

BEAMS OR PURLINS SHALL NOT BE DRILLED  
UNLESS AUTHORIZED BY SOLARCITY OR  
SHOWN IN THE DRAWINGS.

APPROVALS FROM BUILDING INSPECTORS  
SHALL NOT CONSTITUTE AUTHORITY TO  
DEVIATE FROM THE DRAWINGS.

### ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BLDG	BUILDING
CLR	CLEAR
CONC	CONCRETE
DC	DIRECT CURRENT
DIA	DIAMETER
DIST	DISTANCE
EQ	EQUAL
EGC	EQUIPMENT GROUNDING CONDUCTOR
(E)	EXISTING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
GALV	GALVANIZED
GEC	GROUNDING ELECTRODE CONDUCTOR
GND	GROUND
HDG	HOT DIPPED GALVANIZED CURRENT
I	CURRENT AT MAX POWER
Imp	INVERTERS
INVS	SHORT CIRCUIT CURRENT
Isc	KILOVOLT AMPERE
kVA	KILOWATT
kW	KILOWATT-HOUR
LBW	LOAD BEARING WALL
MAX	MAXIMUM
MIN	MINIMUM
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OCIP	OVERCURRENT PROTECTION
PL	PROPERTY LINES
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
SCH	SCHEDULE
SQ. IN.	SQUARE INCHES
SS	STAINLESS STEEL
SSD	SEE STRUCTURAL DRAWINGS
STC	STANDARD TESTING CONDITIONS
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
VIF	VERIFY IN FIELD
V	VOLT
Vmp	VOLTAGE AT MAX POWER
Voc	VOLTAGE AT OPEN CIRCUIT
W	WATT
3R	NEMA 3R, RAIN TIGHT

### SYSTEM SUMMARY

MODULE: (800) CANADIAN SOLAR  
CS6X-305-P

INVERTER:  
(10) SOLARMAX MTA 18KW

RACK TYPE: RBI

ARRAY TILT: 180

AZIMUTH: 30

### DESIGN CRITERIA

GROSS ARRAY AREA: 30,360 SQFT

WIND SPEED: 90 MPH

EXPOSURE: CATEGORY B

SNOW LOAD: 30 PSF

### CODE SUMMARY

**BUILDING CODE**  
ALL WORK SHALL COMPLY WITH  
THE 2012 INTERNATIONAL  
BUILDING CODE.

**ELECTRICAL CODE**  
ALL ELECTRICAL WORK SHALL  
COMPLY WITH THE 2011  
NATIONAL ELECTRIC CODE.

### INDEX

PV1	COVER SHEET
PV2	ELECTRICAL SITE PLAN
PV3	ARRAY PLAN
PV4	ACCESS PLAN
PV5	DEMOLITION PLAN
PV6	EQUIPMENT MOUNTING DETAILS
PV7	EQUIPMENT DETAILS
PV8	ELECTRICAL SYMBOLS & NOTES
PV9	LINE DIAGRAM
PV10	LINE DIAGRAM
PV11	MONITORING LINE DIAGRAM
PV12	WARNING LABELS

RBI GROUND MOUNT RACKING  
DRAWINGS AND CALCULATIONS BY  
OTHERS

**RECEIVED**

OCT 6 2014

LICENSES & PERMITS  
DIVISION

APPROVED : DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

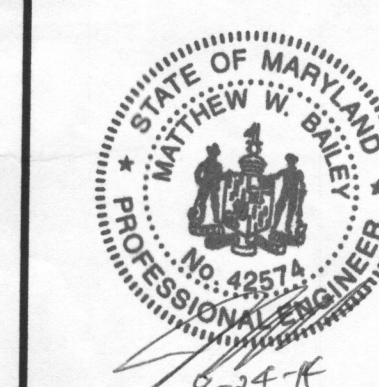
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DIRECTOR DATE

DATE	NO.	REVISION

ORDER OF FRIARS MINOR CONVENTUAL  
244 KW GROUND MOUNT PV SYSTEM

ORDER OF FRIARS MINOR CONVENTUAL,  
ST ANTHONY OF PADUA PROVINCE  
12300 FOLLY QUARTER ROAD, ELLICOTT CITY, MD 21042  
(410) 531-1400



### REVISIONS

REV	BY	DATE	COMMENTS
REV A	AC	9/28/14	PWIRE UPDATED TO #10

### JOB DETAILS

JOB: Howard County  
WORKS: (800) CANADIAN SOLAR CS6X-305-P

### WORKING SYSTEM

GROUND MOUNT  
INVERTER: (10) SolarMax # MTA 18  
RACK: ALLEN CHANG

CREATED BY: MATT GITT

MARKET: COMM PROJECT MANAGER: MATT GITT

DATE: 7/21/2014 PAYMENT TYPE: PPA

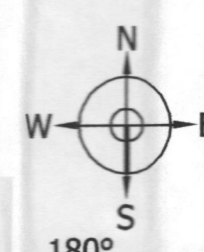
SHEET NAME: COVER SHEET

JOB NUMBER: JB-210889-00

SHEET: PV 1 REV: A

### PROPERTY PLAN

1"=300'-0"





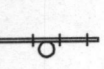
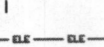


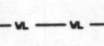
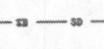


180°

-K- | -J- | -I- | -H- | -G- | -F- | -E- | -D- | -C- | -B- | -A-

**SHEET NOTES**

A. SEE PV12 FOR WARNING LABEL DETAILS.

**LEGEND**

-  (N) GROUND-MOUNTED SOLAR PV ARRAY
-  (E) GROUND-MOUNTED SOLAR PV ARRAY
-  (E) UTILITY POLE
-  (E) UG ELECTRIC LINE
-  (E) UG FIBER OPTIC LINE
-  (E) UG CABLE LINE
-  (E) UG WATER LINE
-  (E) UG STORM DRAIN
-  (E) TREE
-  (E) AREA WITH TREES

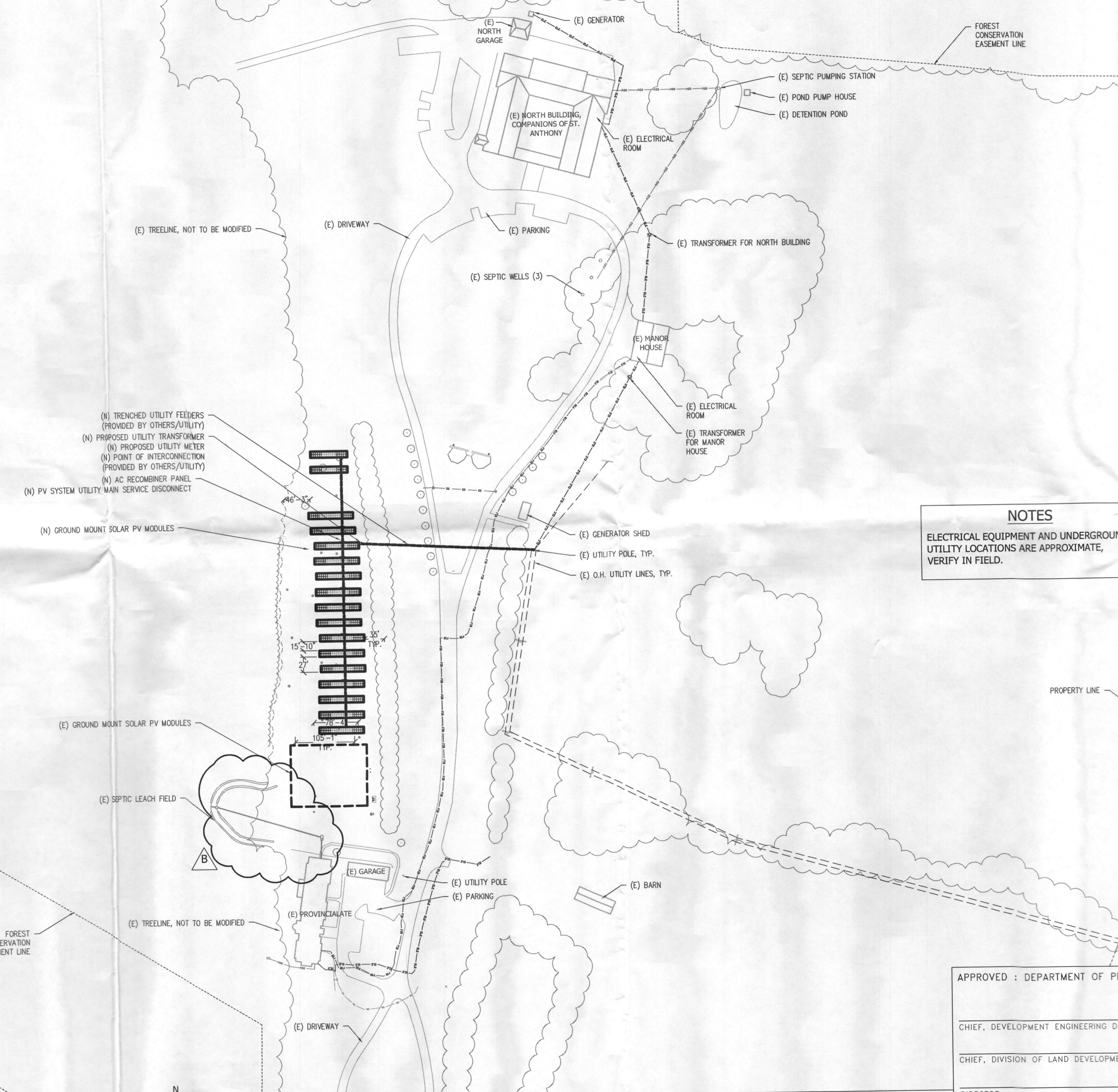


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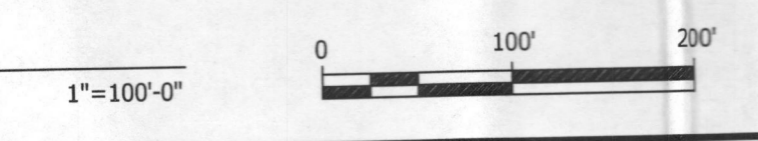
ORDER OF FRIARS MINOR CONVENTUAL  
 244 KW GROUND MOUNT PV SYSTEM

ORDER OF FRIARS MINOR CONVENTUAL,  
 ST ANTHONY OF PADUA PROVINCE  
 12300 FOLLY QUARTER ROAD, ELLICOTT CITY, MD 21042  
 (410) 531-1400



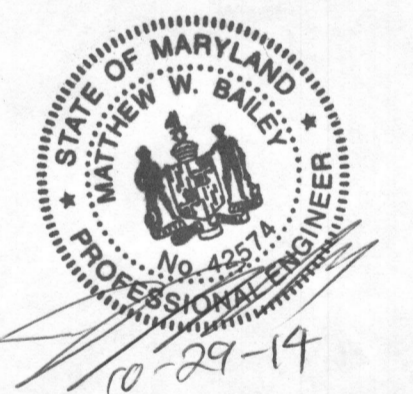
**NOTES**  
 ELECTRICAL EQUIPMENT AND UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE, VERIFY IN FIELD.

**ELECTRICAL SITE PLAN**



APPROVED : DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
DIRECTOR	DATE
DATE	NO.
REVISION	



10/2/14  
 Plan approved for solar photovoltaic ground mounted system installation. (B14003657) - H.O.

**REVISIONS**

REV	BY	DATE	COMMENTS
REV A	AC	8/28/14	POWER UP SIZED TO #10
REV B	AC	10/28/14	SPECTIC TANK UPDATED

**JOB DETAILS**  
 AREA: Howard County  
 ADDRESS: (800) CANADIAN SOLAR CS6X-305-P

Mounting System: GROUND MOUNT  
 Inverter: (10) SolarMax # MTA 18  
 Design: ALLEN CHANG  
 Checked By: [Signature]  
 Project Manager: MATT GITT  
 Date: 7/21/2014  
 Payment Type: PPA  
 Sheet Name: ELECTRICAL SITE PLAN  
 Job Number: JB-210889-00  
 Sheet: PV 2  
 Rev: B

-K- | -J- | -I- | -H- | -G- | -F- | -E- | -D- | -C- | -B- | -A-

- K - | - J - | - I - | - H - | - G - | - F - | - E - | - D - | - C - | - B - | - A -

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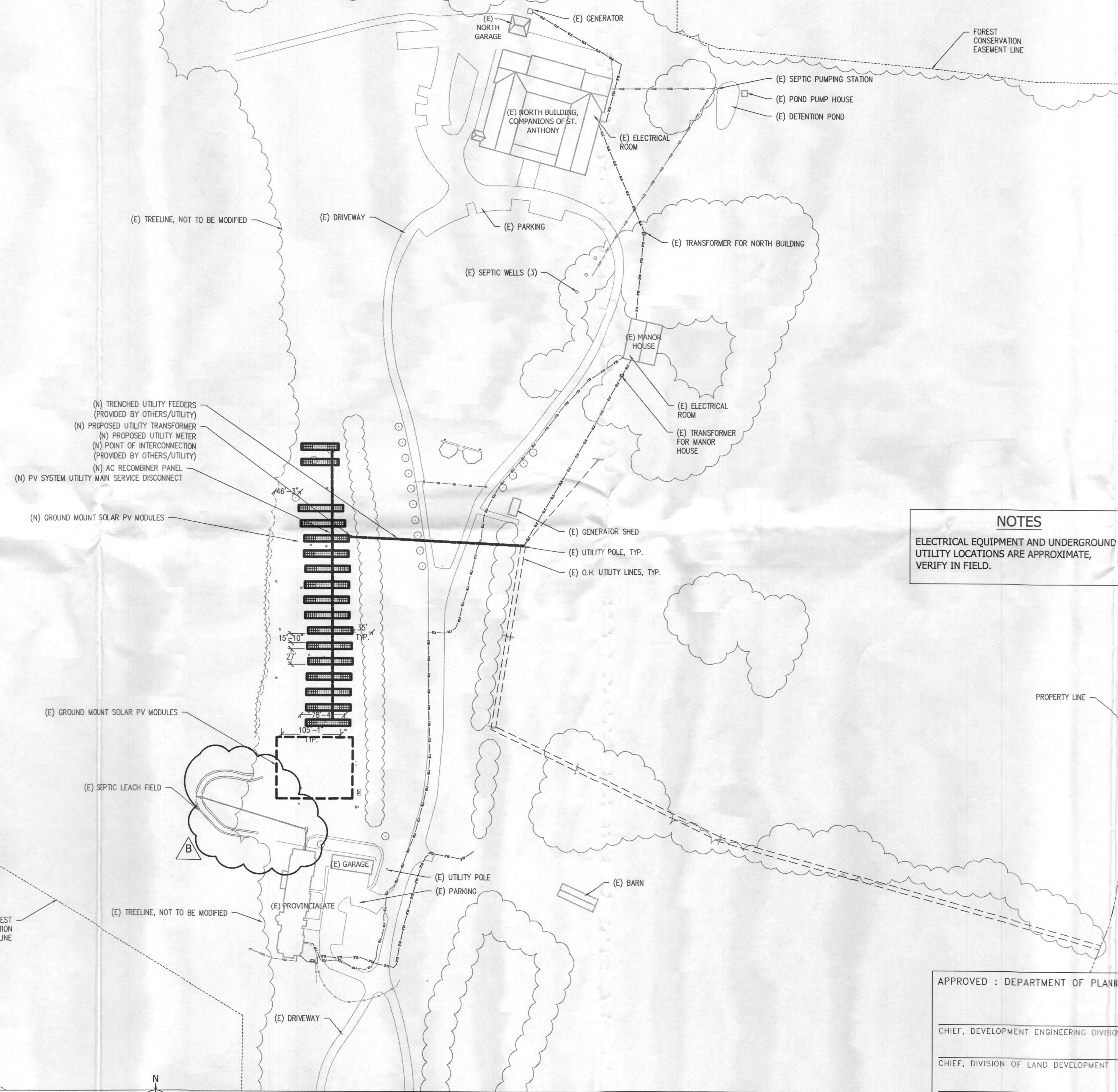
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- (E) UG CABLE LINE
- (E) UG WATER LINE
- (E) UG STORM DRAIN
- (E) TREE
- (E) AREA WITH TREES



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 T: (650) 638-1028 F: (650) 638-1029  
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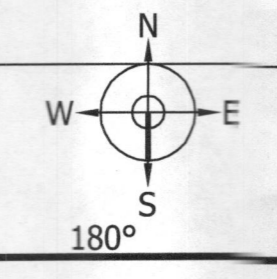
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APPROVED : DEPARTMENT OF PLANNING AND ZONING

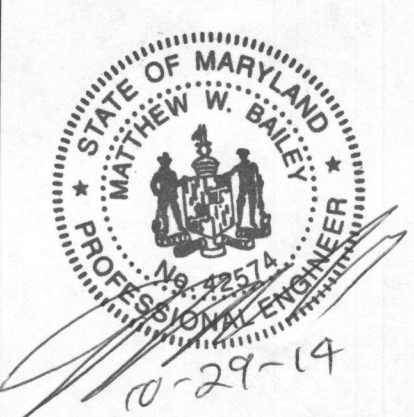
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
DIRECTOR	DATE
DATE	NO.
REVISION	

**ELECTRICAL SITE PLAN**

1"=100'-0"



- K - | - J - | - I - | - H - | - G - | - F - | - E - | - D - | - C - | - B - | - A -



10/31/14 -  
 Plan approved for solar photovoltaic ground mounted system installation (B44003657) - H.O.

REVISIONS			
REV	BY	DATE	COMMENTS
REV A	AC	8/28/14	PWME UPDATED TO #10
REV B	AC	10/29/14	SEPTIC TANK UPDATED

JOB DETAILS	
FILE: Howard County	
ADDRESS: (800) CANADIAN SOLAR CS6X-305-P	
MOUNTING SYSTEM: GROUND MOUNT	
PANELS: (10) SolarMax # MTA 18	
DESIGN: ALLEN CHANG	
CHECKED BY:	PROJECT MANAGER: MATT GITT
MARKET: COMM	DATE: 7/21/2014
SHEET NAME: ELECTRICAL SITE PLAN	
JOB NUMBER: JB-210889-00	
SHEET: PV 2	REV: B