



WESTWOOD BOARD OF APPEALS APPLICATION FOR HEARING

	1.	Name of Applicant: BLUESEL Home SOLAR, INC.
		Applicant is (check one): Owner Tenant Abutter Purchaser Other Tenant Abutter Tena
	3.	Mailing address of Applicant: SANDWICH, MA 62563
	4.	Telephone - Home: Business:
	5.	E-Mail Address of Applicant: Cylese bluesel. com (4) mlanghee
	6.	Address of Property subject to Hearing: 281 GROVE ST., WESTWOOD, MA 02090 WILLIAM & MARY-TO HANNIGAN (TR.) Owner of Property: GROVE STREET MEADOW 281 NOMINEE TRUST
	7.	Owner of Property: GROVE SPLEET MEADOW 28 NOMENEE TRUST
	8	Mailing Address of Property Owner: 245 GROVE ST., WESTWOOD, MA 02090
	9.	Telephone - Home: 617 -842 - 4448 Business:
	10.	Deed recorded in: Norfolk County Registry of Deeds: Book # Page #
	(or	Land Court Registry: Certificate # Book # NA Page # NA
	11.	Land Court Registry: Certificate # 184382 Book # NIA Page # NIA Property MAP # 5 LOT # 19 A DISTRICT SINGLE RESIDENCE E (SRE
	12.	Has an appeal/application ever been filed with the ZBA on this property? (Y/N) N If yes, when:
	13.	NATURE of Application (check one): Appeal in accordance with MA G.L.Ch. 40A, Sec. 8 as amended Special Permit in accordance with MA G.L.Ch.40A, Sec. 9 as amended Variance in accordance with MA G.L. Ch. 40A, Sec. 10 as amended
		When applying for a Special Permit under Section 9.3 of the Westwood Zoning Bylaw, please make sure that you and/or your attorney refer to the specific bylaw regarding this section.
ST Zo	ning	The EXACT NATURE of this application including the applicable section number(s) of the Westwood Bylaw: PER THE TOWN OF WESTWOOD ZONING BYLAW; SECTION 4.1.7.5, WE ARE REQUESTING APPROVAL FOR A SPECIAL PERMIT B TO INSTALL A LARGE SCALE ESTDENTIAL SOLAR GROUND MOUNT PHOTOYOLTATE ARRAY HA INNER TERS. THE REASON IS THIS SOLAR SYSTEM IS OVER IS KWH DC IN TOTAL SIZE, AS IT IS 26.9 KWH DC TOTAL. THE SOLAR SYSTEM WOULD BE PLACED IN A PIELD ON AN UNDEVELOPED RESIDENTIAL LOT IN ASTNOLE RESIDENCE E DISTRICT (BYLAW)
3-9	-16	Di si
		Plan on a minimum or three months to complete the process. 55LAR PV PANELS WOLD PRODUCE ELECTRICITY.

I hereby request a hearing before the Westwood Board of Appeals with reference to the subject property.

I am aware that the cost of legal advertising will be billed to me directly as the Applicant, by the newspaper at a later date. I am also aware of the provisions in the Zoning Bylaw with regard to Reimbursement for Consultants, and I agree to reimburse the Board of Appeals and the Town of Westwood for all costs incurred by the Town or its' Boards for all fees, expenses and costs in connection with the review and evaluation of the Application for Special Permit and/or Variance.

I have reviewed the Zoning Board of Appeals Instructions and Information and understand the time requirements.

Signed: Mary Jo Harrigan Lustee Date: March 14, 2017

PROPERTY OWNER (if different from applicant)

SCHEDULE OF FILING FEES FOR THE BOARD OF APPEALS

Residential Properties - \$165.00

Business Properties - \$330.00

Comprehensive Permits - \$2530.00

CHECKLIST:

- 6 copies of the Application
- 6 copies of the OPTIONAL Appendices (if completed)
- 6 copies of a Certified Plot Plan size 11" x 17"
- 6 copies of the Building Plans (interior and/or exterior as applicable) size 11" x 17"
- 6 copies of the Building Commissioner's denial of a building permit or equivalent

File the six (6) packets in the Town Clerk's office located at 580 High Street making sure to include a check for the filing fee in the correct amount.

Deliver one (1) electronic copy of the Application with attachments to the Office of the Board of Appeals at 50 Carby Street.

HANNIGAN

BlueSel Home Solar, Inc.'s Town of Westwood Zoning Board of Appeals Application Appendix B – Special Permit Optional Information- for Customer William & Mary – Jo Hannigan, Trustee & Grove Street Meadow 281 Nominee Trust, for 281 Grove St., Westwood, MA 02090 /March 21, 2017

OPTIONAL

APPENDIX B - Special Permit Considerations

1) The structure is in harmony with the general purpose and intent of the bylaw.

As per the Town of Westwood Bylaw Section 1.1 "Purpose", we respect and wish to adhere to the regulations enacted to protect health, safety, (including fire hazard), and the natural environment, as well as appropriate land use. "Per the Town of Westwood Zoning Bylaw Section 4.1.7.5 on "Principal Use & Districts", identifying this project as in a "Single Residence Use 5 District" & "Large Scale Solar", we understand that this use may be permitted by Special Permit from the Zoning Board of Appeals (ZBA), as denoted by the letter "BA" on the applicable table.

BlueSel Home Solar, Inc. proposes to install a large scale, 26.9 kWh DC, residential solar ground-mounted photovoltaic (PV) array, within an existing maintained field on the undeveloped lot # 122 at 281 Grove St., Westwood, MA 02090 for the property owners, William & Mary-Jo Hannigan. The solar system would be placed low to the ground, with the lower edge about 2 feet off the ground & the upper edge about 10 feet off the ground. So it will not be visible from all over, as for example, a cell tower would be. The residential property owners' intended use for the solar electricity generated at this site is to help offset their personal residential electrical needs, at their adjoining lot # 124 located at 245 Grove Street.

2) The structure is in an appropriate location and is not detrimental to the neighborhood and does not significantly alter the character of the zoning district.

The ZBA classifies the **Zoning District** for this solar project located at 281 Grove Street as "Single Residence Use District 5", which is a vacant, undeveloped residential lot. The locus has an area of 7.92 acres and was historically part of a much larger parcel of land. In order to respect the residential character of this Zoning District & the neighborhood, the solar PV ground mount will be installed within an existing field, that has been maintained for many years, mainly in the northwest section of the parcel. No tree or natural vegetation removal is proposed.

3) Adequate and appropriate facilities will be provided for the proper operation of the proposed structure.

The BlueSel Home Solar, Inc. project includes installing solar panels and a utility pedestal, and **temporary** trenching for electrical conduits. The electricity needed for the work will be supplied by the transformer, located near the **adjoining residential property** at 245 Grove Street, with the **same property owners**.

BlueSel Home Solar, Inc.'s Town of Westwood Zoning Board of Appeals Application Appendix B – Special Permit Optional Information- for Customer William & Mary – Jo Hannigan, Trustee & Grove Street Meadow 281 Nominee Trust, for 281 Grove St., Westwood, MA 02090 /March 21, 2017

4) The proposed structure will not be detrimental or offensive to the adjoining zoning districts and neighboring properties due to the effects of lighting, odors, smoke, noise, sewage, refuse material, visual or other nuisances.

BlueSel Home Solar, Inc. is has carefully considered the potential visual nuisance & the safety, including fire hazards of the solar PV installation, and planned to mitigate those as much as possible. We intend to construct the residential solar PV ground mount array in an area well hidden, due to vegetation surrounding the field, therefore minimizing visual impact to the abutters, such as reflection off the solar panels. No vegetation is required for the installation of the solar panels and transformer. Also, since the upper edge is only 10 feet off the ground, sliding snow should not be an issue, as it might be in the case of a roof-mount solar system.

Also, to avoid possible **fire hazards**, all electrical components will be locked so there is no chance for anyone to touch live wires. Furthermore, it will meet the Town of Westwood Structural Requirements for wind & snow loads.

5) The proposed structure will not cause undue traffic congestion in the immediate area.

The proposed solar PV ground mount is being set up in a field on an undeveloped residential lot, which is privately owned, so it should not affect traffic in the immediate area, or cause the number of visitors to that area to increase.

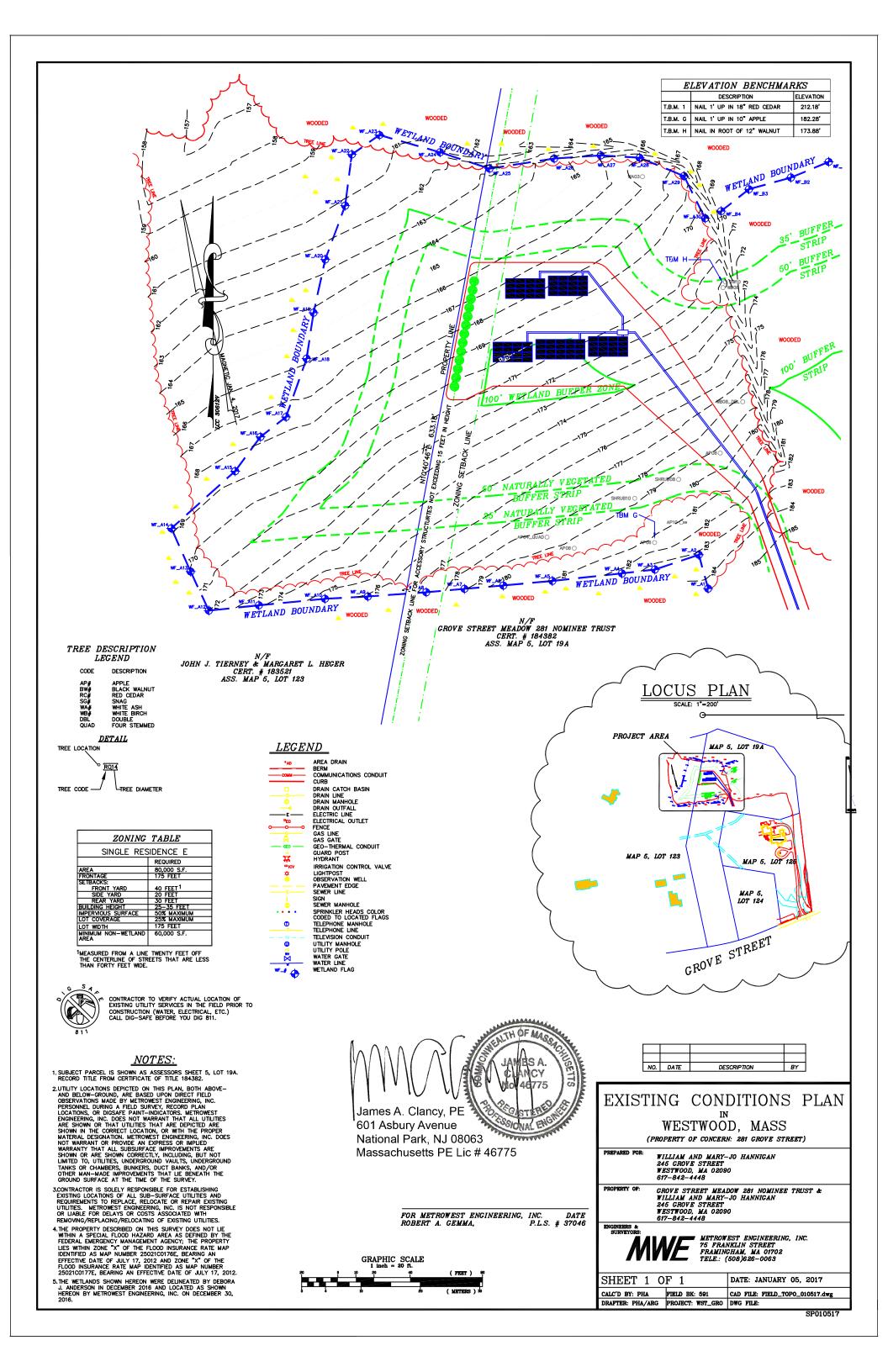
MAHI	VZ GAN - FOR 281 G	RUNE DI.	JULIA OKOVIV	N INON	VI	
			43	X U	181	
<i>l</i>	DATE ISSUED:	TEE	PAID: V	NW.TV	The second secon	
NWOT	OF WESTWOOD APP			17.7		
	To the Building Commissioner: The undersigned hereby applies for a permit to Bu			Date: _	this application and plans and applifications	
	The undersigned hereby applies for a permit to bu submitted herewith.	mo – Anei – Remod	der, etc., according to information	i indicated in	uns apprication and plans and specifications	
		PLEA	SE PRINT CLEARI	. Y		
	IMPORTANT – App	licant to co	omplete all items in	section	ns I, II, III, IV, AND V	
	I. LOCATION OF BUILDING					
	STREET ADDRESS 281	GROVE	55.	R. SIDE	YARD SETBACK	
	(NO.)	(STREET	T)	L. SIDE	ARD SETBACK	
	ZONING DISTRICT LOT	FRONTAGE		REAR YA	ARD SETBACK	
	ASSESSORS MAP # LOT	T# Li	OT SIZE	FRONT	YARD SETBACK	
	II. TYPE AND COST OF BU	ILDING – A	Il applicants comp	lete Par	ts A – D.	
	A. TYPE OF IMPROVEMENT		ED USE - For "Wrecking"			
	1 New Building	RESIDENTIA			SIDENTIAL	
*	2 Addition	13 One Famil	y	19 Amus	ement, recreational	
	3 Alteration - ADDING GROUND SOLAR		re family – Enter	20 Churc	h, other religious	
	4 Repair, replacement	number of	units	21 Indust	rial	
•	5 Wrecking		notel, motel, or	22 Parkir	ng garage	
	6 Moving (relocation)	domitory –	- Enter number of units		e station, repair garage	
	7 Foundation only	16 Garage			tal, Institutional	
	8 Pools, Fences, Towers Tennis Courts, etc.	17 Carport	tf		, bank, professional	
	B. OWNERSHIP	18 Other - Sp	OPED LOT-ADD	26 Public	ol, library, other educational	
	9 Private (Individual, Corporation,		ROUND WENNI BY		ores, mercantile	
•	nonprofit Institution, ect.)		HIDN(84 PANELS	29 Tanks		
	10 Public (Federal, State or Local Government)	WITH 2 TWVEKTERS FOR 30 Other 26.880 KWH DC)			- Specify	
	C. COST	(Omit cents)	E. TYPE OF OCCUPANCY OR USE; NEW HOME, ETC.			
	11 Cost of Basic Contruction (56%)	\$57,168	Briefly outline scope ar	id nature (of work to be done.	
	To be installed but not included in the above cost	60.114	NIA			
	a. Electrical (50%)	\$ 57,167			RECEIVED	
	b. Plumbing				FFR 1.3 2017	
	c. Heating, air conditioning d. Other (elevator, etc.)				FEB IJ 2017	
	12 TOTAL COST OF IMPROVEMENT	\$ 114,335	1		TOWN OF WESTWOOD COMMISSIONER OF BUILDING	
SECTION	III. SELECTED CHARACTE	RISTICS OF	BUILDING For new I	ouildings and only Part J,	fadditions, complete Parts E-L; for wrecking, for all others skip to IV.	
NIA	F. PRINCIPAL TYPE OF FRAME		H. TYPE OF SEWAGE	ISPOSAL	K. DIMENSIONS	
	31 Masonry		41 Public Sewer		49 Number of stories	
	32 Wood frame		42 Private (septic tank, e	tc.)	50 Total sq.ft. of floor area,	
	33 Structural steel		I. TYPE OF WATER SU	PPLY	all floors, based on exterior dimensions	
	34 Reinforced concrete		43 Public or Private Com	pany	51 Total land area, sq.ft.	
	35 Other - Specify		44 Private (well)		L. NUMBER OF OFF - STREET	
	G. PRINCIPAL TYPE OF HEATING F	lifi	J. TYPE OF MECHANIC	CAL	PARKING SPACES	
	· ·	Other - Specify			52 Enclosed	
	37 Oil 39 Coal	enior - openny	45 Yes 46 No		53 Outdoors	
	35 354		Will there be an elevator	?	M. RESIDENTIAL BUILDINGS ONLY	
			47 Yes 48 No		54 No. of bedrooms	

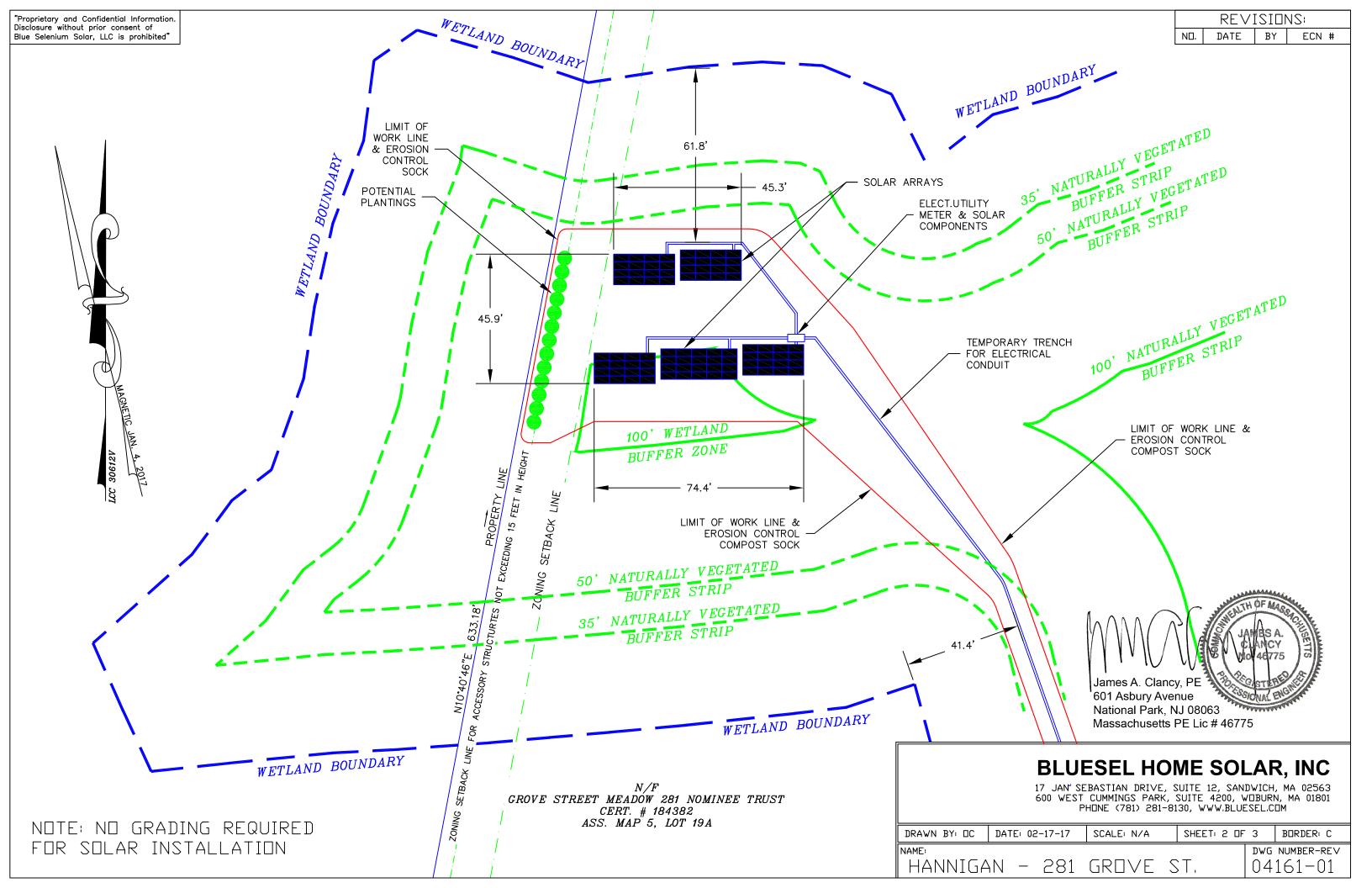
Partial

55 No. of baths: Full

,	IV. TO BE COMPLETED BY ALL APPLICANTS USE N/A IF NOT APPLICABLE
	1. Will building be erected on solid or filled land NA If filled land how long ago filled NA
	\mathcal{A}
	10 Foundation material NIA
	3. Foundation material N'A
	5. Roof covering NIA
	6. Will all construction to be performed conform to State and Local Building Codes YES
	7. Has the applicant complied with the Architectural Access Code
	8. Does this Building or Structure conform to the Zoning Bylaw YE5
	9. Has the applicant complied with the Energy Code
	10. Is this property in the FLOOD PLAIN AREA NIA
	THIS IS A TRUE STATEMENT SIGNED UNDER PENALTIES OF PERJURY
	V. IDENTIFICATION - To be completed by all applicants - Complete street and mailing addresses
	NAME COMPLETE ADDRESS HOME & BUS. PHONE
	OWNER OF MARY-JO HANNIGAN 245 GROVE ST. 02090 617-842-4448
; ;	Lessee
	Builder/
•	CONTRACTOR BLUESCI HOME SOLAR, INC 17 JAN SEBASTIAN DR. STE#12 508-833-9500
NIA	Architect/
14 117	Engineer
	I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this
	application as his authorized agent. Signature of Applicant BLUE SEL HoAddress 5 OLAR INC Application Date
	17 PARY SEGASTIAN DR. 376. 12 2-8-2017
	This permit is approved subject to the provisions of all Federal and State Laws, Rules & Regulations and Con. Com. approval.
	Sewer Permit No. NA COMMENTS - DEPARTMENT USE ONLY
	Sanitary Permit No. (Title V)
	Highway Dept. Permit NA
	Fire Dept. Permit NA
	Water District Permit NA
	CONTRACTOR LICENSING INFORMATION There reviewed the applicant's request for a pullding Permit and
	Construction supervisor License No. C 3 1 0 1 1 determined that it be forwarded to the Zoning Board of Amende
	Date of Expiration 63-26-2011
	Home Improvement Contractor No. 1 to to 151
	Date of Expiration 04-29 - 2018 2/25/17 3760
	GOS(II) PED
	A. I hereby certify under penalty of perjury that I carry Workers' Compensation Insurance Coverage.
	Signature:
	Name of the common of the comm
•	Name of Insurance Company:
	Policy Number:Expiration Date:
	B. I do not carry Workers' Compensation Coverage as I am an unincorporated sole proprietorship with no employees, using other self-employed sub-contractors for all work.
	Signature

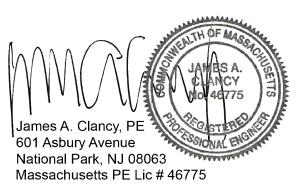
(2 of 3





"Proprietary and Confidential Information. Disclosure without prior consent of Blue Selenium Solar, LLC is prohibited" REVISIONS:

NO. DATE BY ECN #



RESIDENTIAL SOLAR GROUND MOUNTED PV INSTALLATION:

HANNIGAN, WILLIAM 281 GROVE ST., WESTWOOD, MA 02090

PANEL TILT = 35 DEG AZIMUTH = 180 DEG

AVERAGE TSRF = 90% ASSUMED

MDDULES: LG320N1C-G4

WESTWOOD, MA
WIND SPEED = 105 MPH
SNOW LOAD = 40 PSF



RACK: SUNMODO CORPORATION 4 ROWS PER COLUMN IN LANDSCAPE AUGER GROUND MOUNTED SYSTEM

84 MODULES x 320W = 26.9 KW-DC EST PROD = 32,885 KWH/YR (PV SIM 10% SHADE ASSUMED)

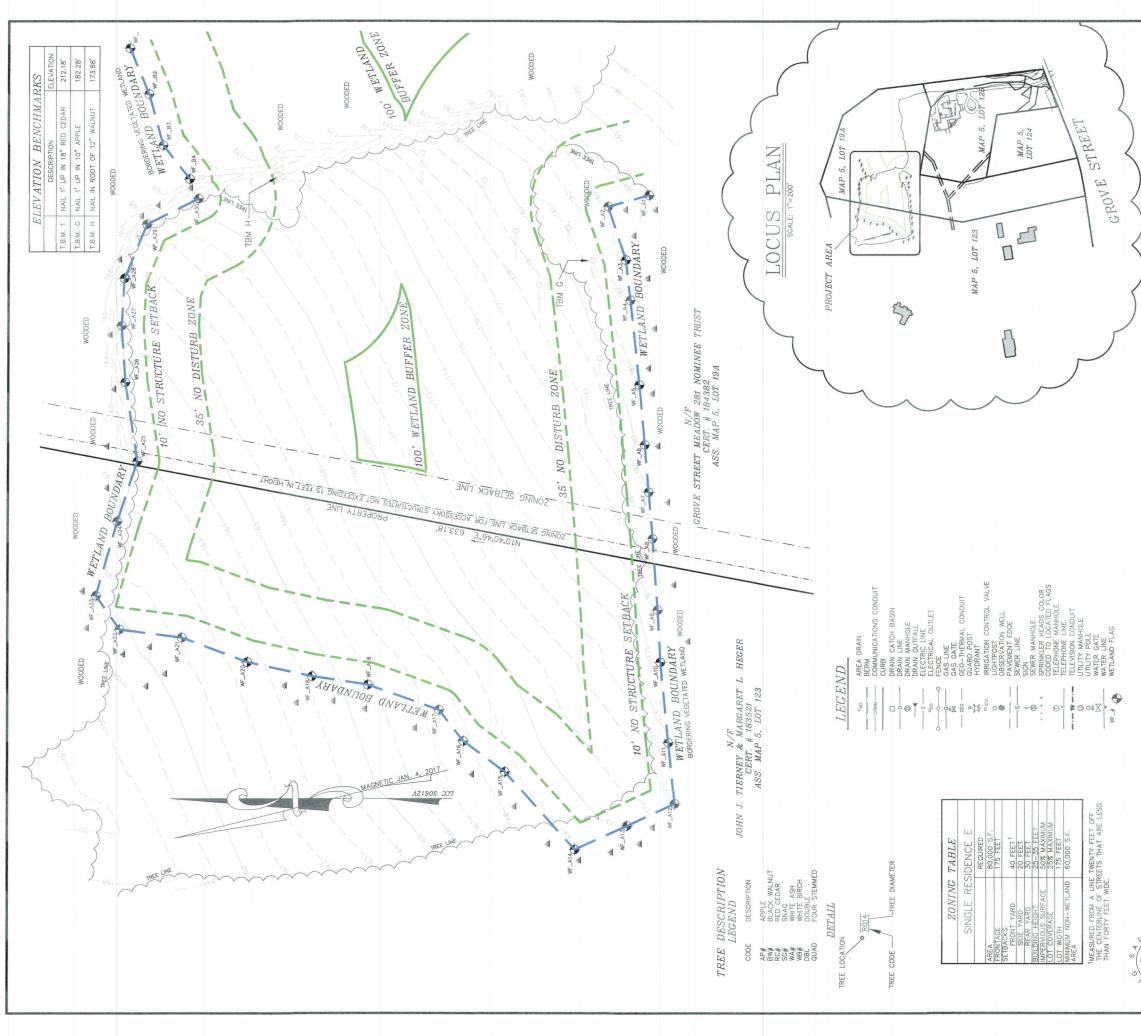
BLUESEL HOME SOLAR, INC

17 JAN SEBASTIAN DRIVE, SUITE 12, SANDWICH, MA 02563 600 WEST CUMMINGS PARK, SUITE 4200, WOBURN, MA 01801 PHONE (781) 281-8130, WWW.BLUESEL.COM

DRAWN BY: OC	DATE: 02-17-17	SCALE: N/A	SHEET: 3 DF	3	BORDER: C
NAME:				DWG	NUMBER-REV

HANNIGAN - 281 GROVE ST.

04161-01



CONTRACTOR TO VERIFY ACTUAL LOCATION OF EXISTING UTILITY SERVIDES IN THE FIELD PRIOR TO CONSTRUCTION (WATER, ELECTRICAL, ETC.)
CALL DIG-SAFE BEFORE YOU DIG 811.

GRAPHIC SCALE 1 inch = 20 ft.

PLAN

EXISTING CONDITIONS

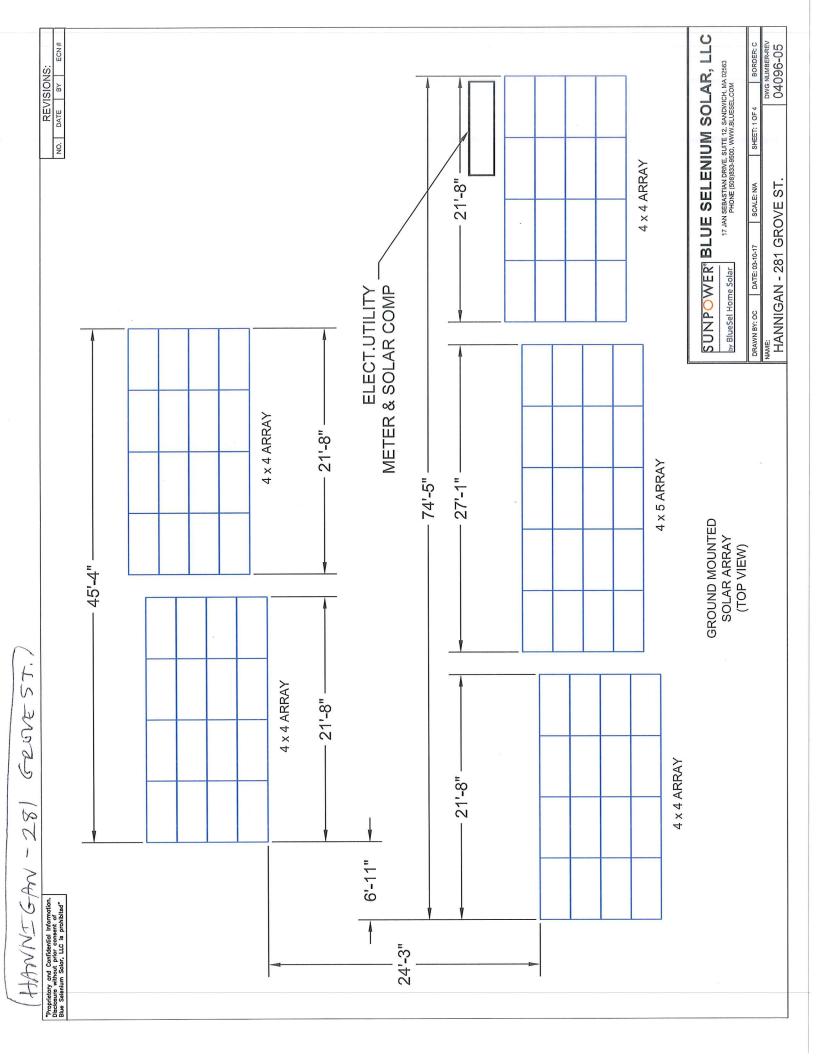
WESTWOOD, MASS

WILLIAM AND MARY-JO HANNICAN 245 GROVE STREET WETWOOD, MA 02021

GROVE STREET MEADOW 281 NOMINEE TRUST & CROVE STREET MEADOW 245 NOMINEE TRUST 454 CROVE STREET WESTWOOD, MA 02021

METROWEST ENCINEERIN
FOR FRANKINGHAM, MA 07702
TELE:: (508)626-0063

-	SHEET 1 OF	F 1	DATE: JANUARY 05, 2017
-	CALC'D BY: PHA	FIELD BK: 591	CAD FILE: FIELD_TOPO_010517.dwg
-	DRAFTER: PHA/ARG	PROJECT: WST_GRO	DWG FILE:
9			SP01051



NO. DATE BY ECN# REVISIONS: 21'-9" APPROX 21'-8" GROUND MOUNTED 27'-2" APPROX SOLAR ARRAY (FRONT VIEW) 12'-5" -- 9'-8" 21'-9" APPROX 21'-8" -GROUND MOUNT = 35 DEG TILT AZIMUTH = 180 DEG PHOTOVOLTAIC INSTALLATION: HANNIGAN, WILLIAM 281 GROVE ST., WESTWOOD, MA 02090 RESIDENTIAL SOLAR -- 1'-2" GROUND MOUNTED Proprietary and Confidential Information. Disclosure without prior consent of Blue Selenium Solar, LLC is prohibited" 7'-7<u>1</u>"

SUNPOWER BLUE SELENIUM SOLAR, LLC 17 JAN SEBASTIAN DRIVE, SUITE 12, SANDWICH, MA 02563 PHONE (509)833-9500, WWW.BLUESEL.COM

4 ROWS PER COLUMN IN LANDSCAPE AUGER GROUND MOUNTED SYSTEM

SUNMODO CORPORATION

AVERAGE TSRF = 90% ASSUMED

84 MODULES × 320W = 26.9 KW-DC EST PROD = 32,885 KWH/YR (PV SIM 10% SHADE ASSUMED)

WIND SPEED = 105 MPH

WESTWOOD, MA

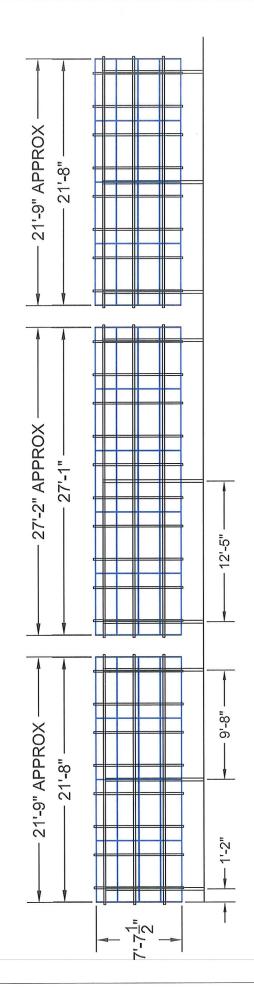
MODULES: LG320N1C-G4 SNOW LOAD = 40 PSF

 DRAWN BY: 0C
 DATE: 03-10-17
 SCALE: NA
 SHEET: 2 OF 4
 BORDER: C

 NAME:
 HANNIGAN - 281 GROVE ST.
 04096-05

"Proprietary and Confidential Information. Disclosure without prior consent of Blue Selenium Solar, LLC is prohibited"

ECN # REVISIONS: NO. DATE BY



GROUND MOUNTED PHOTOVOLTAIC INSTALLATION: RESIDENTIAL SOLAR

HANNIGAN, WILLIAM 281 GROVE ST., WESTWOOD, MA 02090

GROUND MOUNT = 35 DEG TILT AZIMUTH = 180 DEG

AVERAGE TSRF = 90% ASSUMED

LG320N1C-G4 MODULES:

WIND SPEED = 105 MPH SNOW LOAD = 40 PSF WESTWOOD, MA

GROUND MOUNTED SOLAR ARRAY (REAR VIEW)

SUNMODO CORPORATION 4 ROWS PER COLUMN IN LANDSCAPE AUGER GROUND MOUNTED SYSTEM

84 MODULES x 320W = 26.9 KW-DC EST PROD = 32,885 KWH/YR (PV SIM 10% SHADE ASSUMED)

SUNPOWER BLUE SELENIUM SOLAR, LLC

17 JAN SEBASTIAN DRIVE, SUITE 12, SANDWICH, MA 02563 PHONE (508)833-9500, WWW.BLUESEL.COM

by BlueSel Home Solar

DWG NUMBER-REV 04096-05 BORDER: C SHEET: 3 OF 4 HANNIGAN - 281 GROVE ST. SCALE: N/A DATE: 03-10-17 DRAWN BY: OC

BLUE SELENIUM SOLAR, LLC BORDER: C DWG NUMBER-REV 04096-05 ECN# 17 JAN SEBASTIAN DRIVE, SUITE 12, SANDWICH, MA 02563 PHONE (508)833-9500, WWW.BLUESEL.COM REVISIONS: NO. DATE BY -SHEET: 4 OF 4 9'-10" SCALE: N/A HANNIGAN - 281 GROVE ST. $3'-9\frac{1}{2}$ " DRAWN BY: OC DATE: 03-10-17
NAME: SUNPOWER by BlueSel Home Solar - GROUND GROUND MOUNTED SOLAR ARRAY (SIDE VIEW) 4 ROWS PER COLUMN IN LANDSCAPE AUGER GROUND MOUNTED SYSTEM 84 MODULES x 320W = 26.9 KW-DC EST PROD = 32,885 KWH/YR (PV SIM 10% SHADE ASSUMED) 35° SUNMODO CORPORATION $-3'-9\frac{1}{2}"$ AVERAGE TSRF = 90% ASSUMED GROUND MOUNT = 35 DEG TILT RESIDENTIAL SOLAR GROUND MOUNTED PHOTOVOLTAIC INSTALLATION: WIND SPEED = 105 MPH WESTWOOD, MA 02090 SNOW LOAD = 40 PSF HANNIGAN, WILLIAM 281 GROVE ST., AZIMUTH = 180 DEG WESTWOOD, MA "Proprietary and Confidential Information. Disclosure without prior consent of Blue Selenium Solar, LLC is prohibited" 7 LG320N1C-G4 MODULES: