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**TOWN OF ACTON
HISTORIC DISTRICT COMMISSION**
472 Main Street, Acton, MA 01720

CERTIFICATE 2540

Pursuant to Chapter 40C of the General Laws of Massachusetts and the Historic Districts Bylaw of the Town of Acton, the Acton Historic District Commission hereby issues a

CERTIFICATE OF APPROPRIATENESS

For the work described in the Application of the same number.

Applicant: Michael Chaves, EcoSave Home Solutions Telephone: (508) 233-2449

Address: 70 Princeton St. N Chelmsford MA 0863

Email: engineeringteam@ecosave-group.com

Property Owner: Sameep Shah Owner Contact Info: (216) 235-3053
85 River Street, Unit 3, Acton Ma 01720

Location of Work: Same District: Center ___ West ___ South X

Description of Proposed work: Install 16 solar panels and associated equipment on house as described in application and attachments, attached hereto.

Findings, Conclusions and Requirements:

Findings:

1. The building in question is a gable-end house with a two-car garage attached by a connector. The house was built in 2009 and faces River Street at the end of a relatively long driveway which it shares with two other houses of similar architecture apparently built as part of a development at or about the same time.
2. The Applicant seeks to mount 16 solar panels on the house's roof surface that faces south. Due to the position of that roof surface and the location of a house between it and River Street, that roof surface is not visible from River Street.
3. The front facade of the house, including the eave of the roof surface in question, is visible from River Street.
4. As of December 9, 2025, at approximately 4:00 pm, some three hours before the scheduled public hearing on this matter, the installation of the 16 panels here in question was being completed or was complete. At that time, the Applicant had neither a Certificate of Appropriateness from the HDC nor a Building Permit from the Acton Building Department.

Conclusions:

1. The governing way is River Street.
2. The roof surface on which the panels have been installed is not visible from River Street, and the panels are thus not within the jurisdiction of the HDC.
3. The eave of the roof surface on which the panels have been installed and the front facade of the house are visible from River Street, and any part of the solar energy system's installation here in question, including without limitation any associated wiring, conduits, etc., would be within the jurisdiction of the HDC.
4. The installation of any solar energy equipment over which the HDC has jurisdiction without prior approval of the HDC and the issuance of a Certificate of Appropriateness approving that installation would be a violation of both GL Ch. 40C and Acton Town Bylaw P, Local Historic District Bylaw, Sec. 6.1, and as such would be subject to a daily fine of up to \$500 per day and/or a court order until the violation is corrected. See Bylaw P, Sec. 11; GL 40C, Sec. 13.

Requirements

No piping, conduits or other equipment associated with this solar energy installation may be attached to the front facade of the house or to any part of the house, connector or garage visible from River Street unless approved by the HDC after a public hearing as required by GL Ch 40C and Bylaw P, Sec. 6.1.

The Applicant may proceed with any work consistent with this Certificate provided all other approvals have been obtained, including a Building Permit if necessary. This Decision only applies to matters within the HDC's jurisdiction. Any action permitted hereunder may still be subject to or require other approval or permits from other governmental boards, agencies or bodies having jurisdiction such as the Building Department, Planning Department, Health Department, Planning Board, Conservation Commission or Zoning Board of Appeals, as the case may be.

Any appeal of this decision or any part thereof must be filed in accordance with the provisions of Bylaw P, Section 12, which requires filing a written request with the Town Clerk within 20 days of the issuance of this Certificate.

Application received: November 13, 2025 Date of Public Meeting: December 9, 2025
Certificate approved by HDC Vote (4-0) Date of approval: December 9, 2025

Arthur Leavens

Filed by Arthur Leavens, Member
for Historic District Commission

Date: December 12, 2025

Copies to: Applicant, Owner, Building Commissioner, Planning Board, Select Board,
HDC File

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2025 NOV 13 PM 3:22

Application # 2540

TOWN OF ACTON
HISTORIC DISTRICT COMMISSION
472 Main Street, Acton, MA 01720

APPLICATION FOR CERTIFICATE

This information will be publicly posted on the Town of Acton website docushare.

Pursuant to Ch. 40C of the General Laws of Massachusetts, application is hereby made for issuance of the following Certificate for work within a Local Historic District (please check one):
Cert. of Appropriateness (Building Alteration/Sign/Fence/Change of Ownership) Fee: \$10 ☒
Cert. of Appropriateness (Building Addition other than deck/New Bldg/Demolition) Fee: \$50 ☐
Cert. of Hardship (for either category of Appropriateness) Fee: \$10 or \$50 (as appropriate) ☐
Cert. of Non-Applicability No Fee ☐

Fees waived for non-profit or municipal applicants.

Applicant: Michael Chaves

Telephone: 508 233 2449

Address: 70 Princeton St, N Chelmsford, MA 01863 E-mail: engineeringteam@ecosave-group.com

Property owner and address: Sameep Shah
(if different from applicant) 85 River St, Acton, MA 01720 Contact information: 216 235 3053

Location of Work: District: Center ☐ West ☐ South ☒
No. 85 Street River St

Description of Work: (See website Instructions regarding information that is here required)

PV Solar System Install: 7.04 kW-DC; 7.60 kE-AC; 16 Modules; 1 Inverter; Roof-Mounted; No ESS; No Structural
All panels facing south (left side of the main roof)

The undersigned hereby certifies that the information on this application and any plans submitted herewith are correct, and constitute a complete description of the work proposed. By my signature below, I acknowledge that this application and all its data will be publicly posted on the Town of Acton website docushare.

Signature of applicant Michael Chaves Date: 11/13/25

Application received by _____ for HDC Date: _____

COA approved/CNA issued by _____ for HDC Date: _____

INSTRUCTIONS AND INFORMATION for filing an application for a CERTIFICATE for work in a Local Historic District

I. CONTACT THE HISTORIC DISTRICT COMMISSION BEFORE YOU BEGIN

Anyone contemplating exterior work within a Historic District may contact the Commission to discuss a project before making an application. We can tell you what types of work require a Certificate, whether you need to submit an application, and give you an idea of the types of things that will be approved. A list of Commission members is available on the website, and any member will be glad to answer your questions, or to set up an appointment on the Commission's meeting agenda to discuss your plans. The Commission ordinarily meets on the second and fourth Tuesday of the month at 7:30 p.m. in Town Hall, 472 Main Street. Meetings are posted on the HDC website at least 48 hours in advance of the meeting along with the agenda for the meeting.

II. HOW TO FILL OUT AN APPLICATION FORM Application forms can be downloaded from the HDC website (see above), obtained from the Town Clerk's office, or by calling the Commission.

1. Describe the work as fully as possible, attaching separate sheets as necessary.
2. If you are applying to update a Certificate of Appropriateness (COA) currently in force to reflect a change in ownership of the property, attach a copy of that COA to your application and state in your application: (a) your name(s), (b) the date your ownership of the property became effective, and -- under "Description of Proposed work" -- (c) your intent to complete the project under the terms approved in the COA, signing the application where indicated. If you anticipate that you will need more time to complete the project than the COA permits, please include that request, stating the reason(s) for such an extension. Depending on the complexity of the approved project, the Commission may ask to meet with you concerning the project before issuing a new COA reflecting the change in ownership.

A COA issued to reflect a change in ownership of the property simply permits the new owner to complete the project under the terms of that COA, including its expiration date. Before engaging in any work within the Commission's jurisdiction which differs in any respect from that approved in the current COA, you must apply for a new COA and undergo full review of the project by the Commission.

3. Each application, other than one that simply updates a COA to reflect a change in ownership, must be accompanied by the following information:

A. Diagram(s) or sketch(es) of the proposed work:

-- for some minor alterations such as doors, windows, and lighting fixtures, one sketch showing the proposed location on the building or property, along with a manufacturer's information page, is usually sufficient;

-- for all new construction, including an addition to an existing building, please submit views drawn to scale (1/4"=1') of all visible exterior elevations, applicable floor plans, along with explanatory notes, sections, and details of architectural trim, door and window types, etc. Include a plot plan, showing the existing building(s) and the location of the new construction;

-- for a sign, please submit a scale drawing of the proposed design, a representation of the lettering style, information on materials to be used, and a sketch of the sign's position on the building. For a free-standing sign, a plot plan, showing proposed location of the sign, with all distances from the building and lot lines, must be provided;

B. Photographs of the existing conditions. Photos taken with your phones are fine; if you do not have access to a camera, let us know and we will take a photograph;

C. Any additional drawings, diagrams, photos, product samples, and specifications requested by the Commission.

4. Date, sign, and fill in all requested information on the application form. The date of the filing of an application shall be the date on which a copy of such application is received by the office of the Town Clerk.

5. Mail or deliver two copies of the full application to the Town Clerk at Town Hall, 472 Main St., Acton. With the exception of municipal or non-profit applicants, an application fee, payable to the Town of Acton, is required for a Certificate of Appropriateness or a Certificate of Hardship, as follows: Alterations (new windows, doors, roofing, decks, fencing, signs, etc.) or Change of Ownership: \$10; Additions that increase the building's square footage (including attached garages), New buildings, Demolitions: \$50. No fee is required for a Certificate of Non-applicability. In addition to the application fee, if a Public Hearing is held on an application, the applicant will be billed for the Legal Notice.

III. COMMISSION REVIEW OF APPLICATIONS

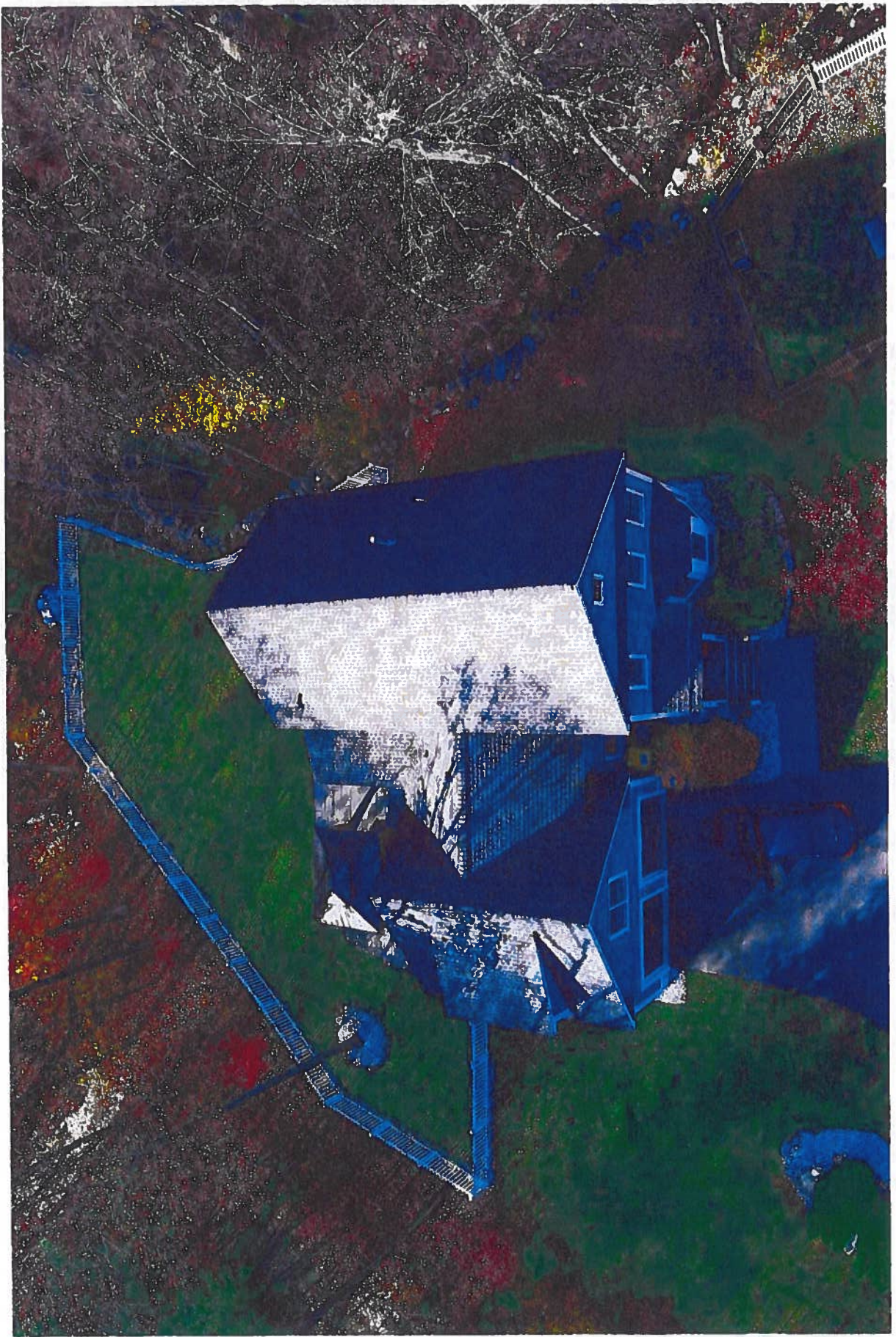
The Commission may appoint one or more of its members to initially screen applications to informally determine whether any application includes and/or is submitted with sufficient information upon which the Commission may conduct its review. Within 14 days following the first filing of an application, the Commission or its appointee/s may determine that insufficient

information has been provided, in which case the application may be once returned to the applicant, with written advice as to what was considered to be lacking. The applicant will then be required to re-file the application before any further Commission action is required. The Commission will consider applications in the order of their receipt. The Commission may hold a public hearing on the application, or, if the proposed work is minor in nature, may undertake to review it without a public hearing. In either case, your presence at the meeting at which your application is discussed will help its processing, as the Commission may need more information before it can make a decision, or might request minor changes that will make your application subject to quick approval.

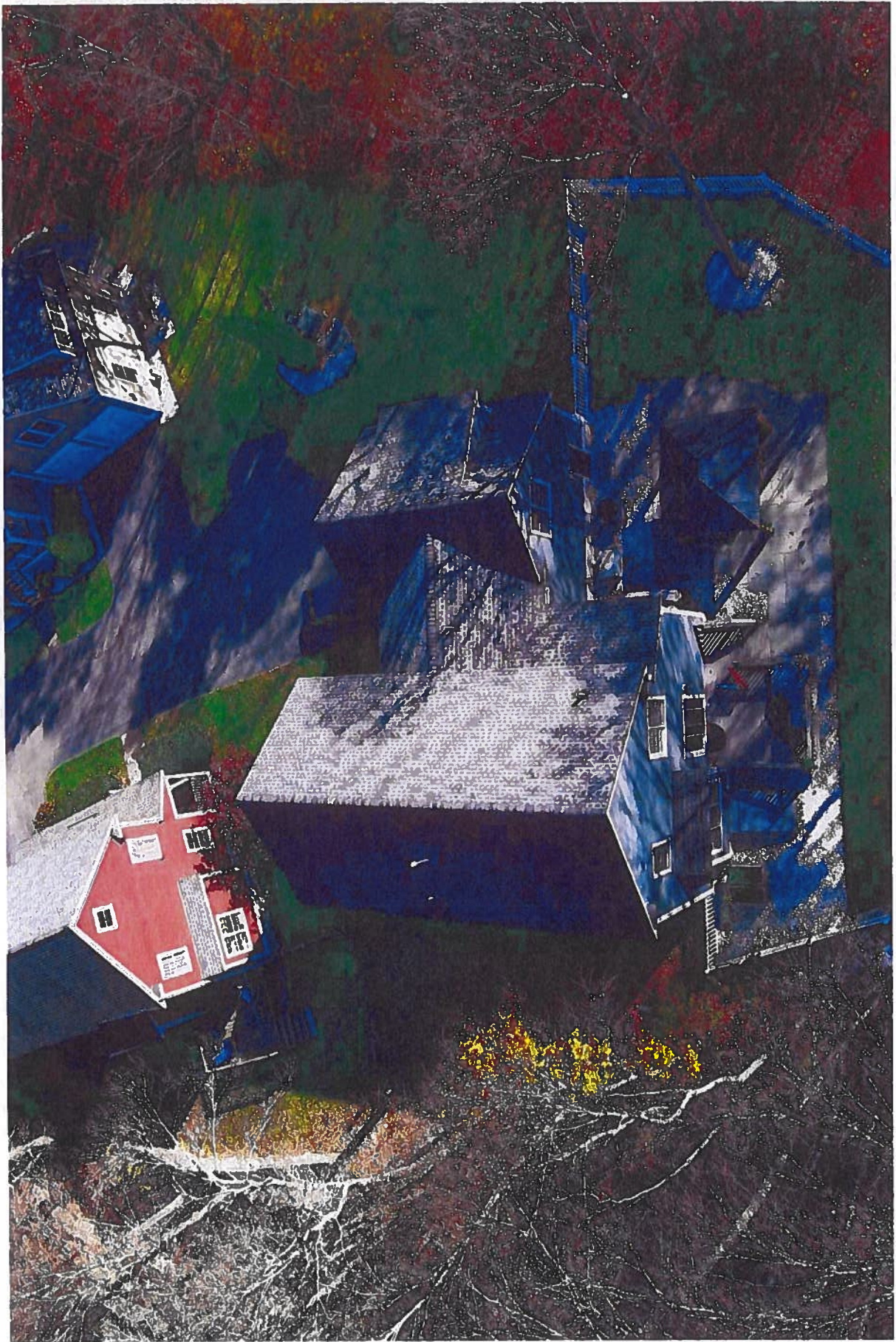
IV. GENERAL INFORMATION ABOUT EXTERIOR WORK IN A LOCAL HISTORIC DISTRICT

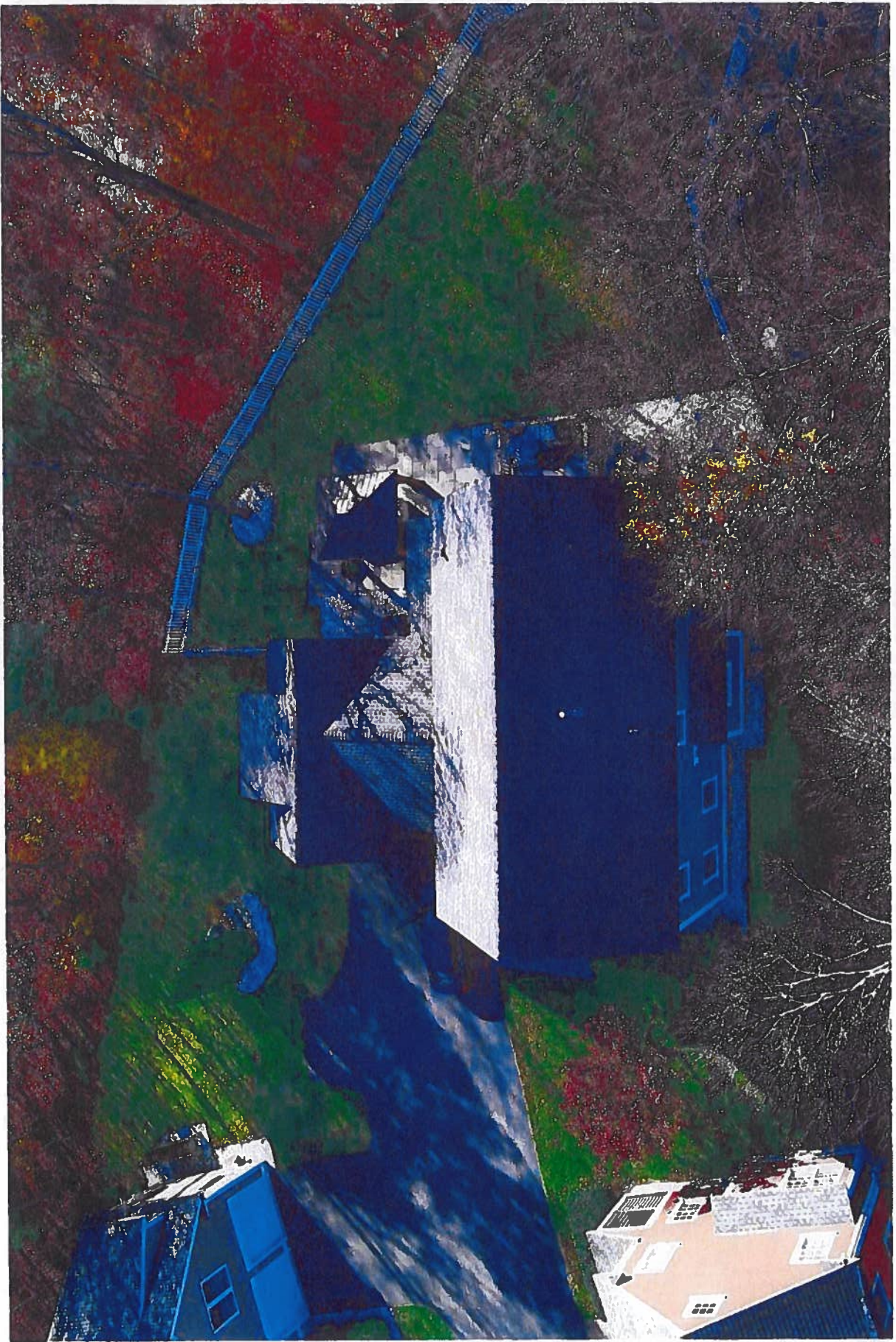
1. Work on a project requiring Commission approval shall not be started until the required Certificate, as well as any other applicable permit or license, has been issued.
2. Changes may be made from the work described in the approved Certificate only with the Commission's written approval, usually in the form of an amended Certificate.
3. All Certificates are valid for work commenced within one year from the date of issuance. An extension or renewal of a Certificate will be granted at the discretion of the Commission. If a property changes ownership during the time a Certificate is in force, a new owner who wishes to continue the authorized work must apply to have a new Certificate issued in his or her name.
4. Types of Certificates: The Commission has a maximum of 14 days to determine if work proposed in an application is within its jurisdiction. If the work is not under the Commission's jurisdiction, a Certificate of Non-applicability will be issued. A Certificate of Non-applicability is not always needed, but if the applicant is seeking other permits, such as a roofing or building permit, it is issued to show the permitting department that the Historic District Commission has checked the plans. If the work proposed in an application falls under the Commission's review, it will need a Certificate of Appropriateness. This is the Certificate that shows that the proposed work has been found to be compatible with the character of the property and the Historic District. In rare cases, the Commission may issue a Certificate of Hardship. In this case, the applicant will be asked to indicate on a separate sheet the reasons why (a) owing to conditions affecting the building or structure, but not affecting the district as a whole, failure to approve an application will involve a substantial hardship, financial or otherwise, to the applicant, and (b) no substantial detriment to the public welfare, and no substantial derogation from the intent and purpose of the Acton Historic District Bylaw would result from approval of the application.
5. The Commission reserves the right to defer its final decision on a proposal up to 60 days from the recorded date of an application.
6. A person aggrieved by a determination of the Commission may, within twenty days of the

issuance of a Certificate or disapproval, file a written request with the Commission for a review by a person or persons of competence and experience in such matters, acting as arbitrator and designated by the Metropolitan Area Planning Council.



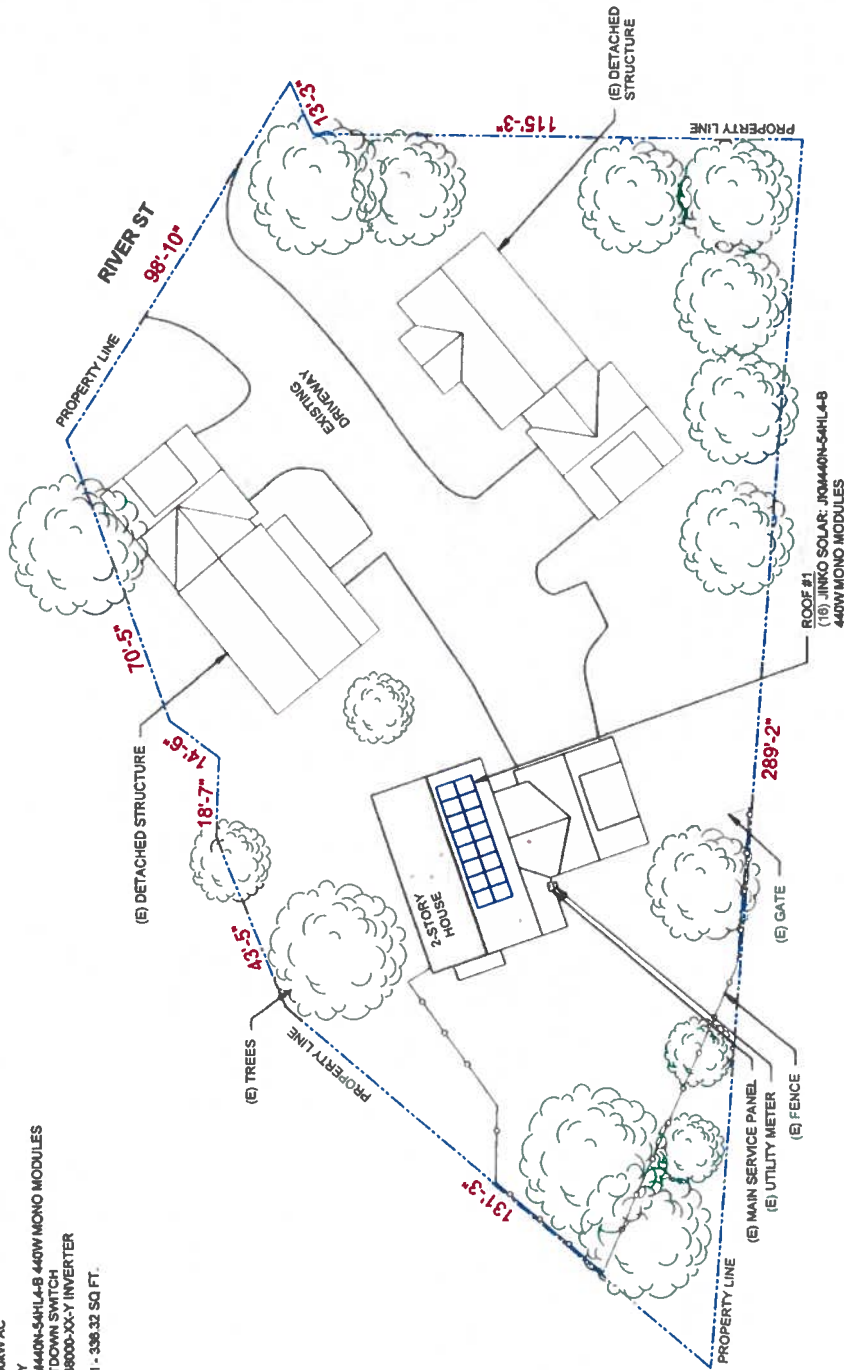






PROJECT DESCRIPTION:

16 x JINKO SOLAR JKM440N-S4HL4-B 440W MONO MODULES
 ROOF MOUNTED SOLAR PHOTOVOLTAIC MODULES
 DC SYSTEM SIZE: 7.040KW DC
 AC SYSTEM SIZE: 7.800KW AC
 EQUIPMENT SUMMARY
 16 JINKO SOLAR JKM440N-S4HL4-B 440W MONO MODULES
 06 MC2 P40PD SHUTDOWN SWITCHES
 01 TESLA 7.6 KW 1536000-XX-T INVERTER
 ROOF ARRAY AREA #1 = 336.32 SQ FT.



SHO SLOAN SOLAR LLC
 210 ADDRESS STREET
 TEL: 878-888-4411
 INFO@SHOSLOAN.COM

REVISIONS	DATE	REV



STRUCTURAL ONLY
 11/10/2025

DATE: 11/09/2025
 PROJECT NAME & ADDRESS

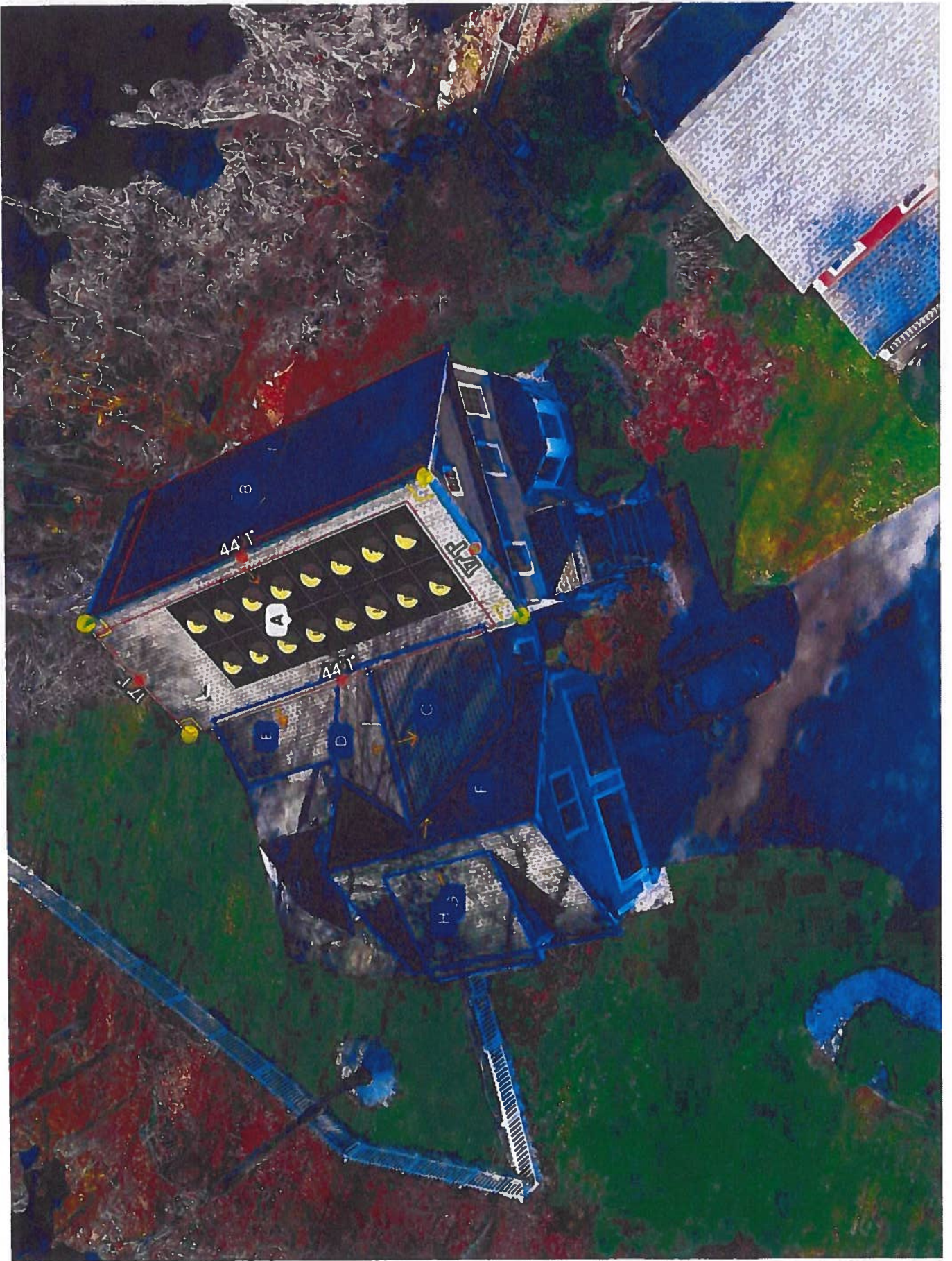
SAMEEP SHAH
 RESIDENCE
 85 RIVER ST.
 ACTON, MA 01720

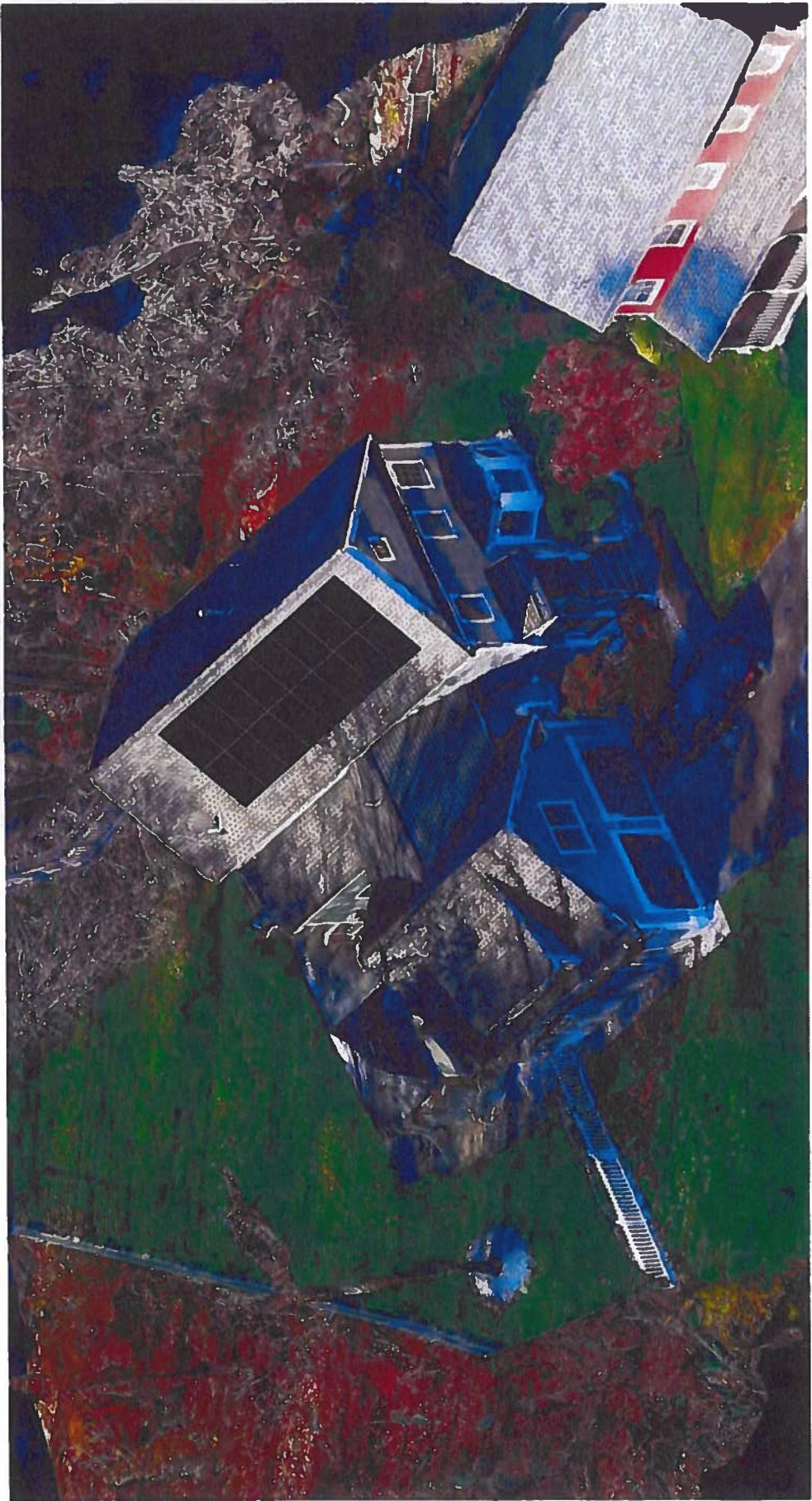
DRAWN BY
 VASO ENERGY

SHEET NAME
 PLOT PLAN WITH
 ROOF PLAN

SHEET SIZE
 ANSI B
 11" X 17"

SHEET NUMBER
 PV-2







THE MOST DEPENDABLE SOLAR PRODUCT

EAGLE® 54 G6R

420-440 WATT • N-TYPE TOPCON

Positive power tolerance of 0~+3%

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Top performance in the strictest 3rd party labs
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar factories in USA, Vietnam, and Malaysia

KEY FEATURES



Superior Aesthetics

Black backsheet and black frame create ideal look for residential applications



N-Type Technology

N-type cells with Jinko's in-house TOPCon technology offers better performance and improved reliability



Thick and Tough

Fire Type 1 rated module engineered with a thick frame, 3.2mm front side glass, and thick backsheet for added durability.



Shade Tolerant

Twin array design allows continued performance even with shading by trees or debris



Protected Against All Environments

Certified to withstand humidity, heat, rain, marine environments, wind, hailstorms, and packed snow



Warranty

25-year product and 30-year linear power warranty



- ISO9001:2015 Quality Standards
- ISO14001:2015 Environmental Standards
- IEC61215 IEC61730 certified products

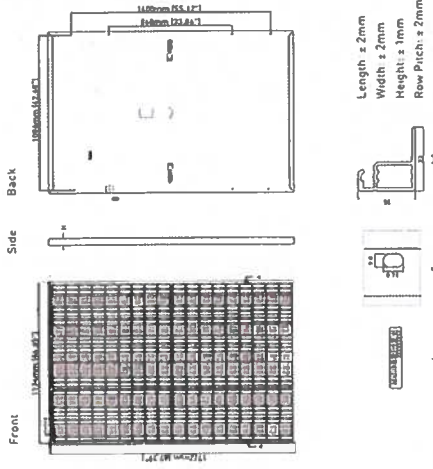
- ISO45001:2018 Occupational Health & Safety Standards
- UL61730 certified products



Jinko
Solar

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ENGINEERING DRAWINGS



MECHANICAL CHARACTERISTICS

No. of Half Cells	108 (2 x 54)
Dimensions	1722 ± 1134 ± 35mm (67.79 ± 44.65 ± 1.38 inch)
Weight	21.0kg (46.3lbs)
Front Glass	3.2mm, Anti-Reflection Coating High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Output Cables	12 AWG, 1400mm (55.12in) or Customized Length
Connector	StaUBL MC4
Fire Type	Type 1
Pressure Rating	5400Pa (Snow) & 2400Pa (Wind)*

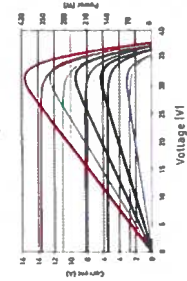
*See Supplemental Installation Manual for higher wind and pressure rating solutions

TEMPERATURE CHARACTERISTICS

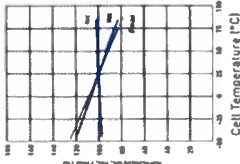
Temperature Coefficients of Pmax	-0.29%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	0.045%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE

Current Voltage & Power-Voltage Curves (420W)



Temperature Dependence of Isc, Voc, Pmax



MAXIMUM RATINGS

Operating Temperature (°C)	-40°C ~ +85°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	25A

PACKAGING CONFIGURATION

(Two pallets = One stack)
31pcs/pallets, 62pcs/stack, 806pcs/40 HQ Container

WARRANTY

25-year product and 30-year linear power warranty
1st year degradation not to exceed 1%, each subsequent year not to exceed 0.6%, minimum power at year 30 is 87.4% or greater.

ELECTRICAL CHARACTERISTICS

Module Type	JKM420N-S4HL4-B	JKM425N-S4HL4-B	JKM430N-S4HL4-B	JKM435N-S4HL4-B	JKM440N-S4HL4-B
STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	420Wp	425Wp	430Wp	435Wp	440Wp
Maximum Power Voltage (Vmp)	32.16V	32.37V	32.58V	32.78V	32.99V
Maximum Power Current (Imp)	13.06A	13.13A	13.20A	13.27A	13.34A
Open-circuit Voltage (Voc)	38.76V	38.95V	39.14V	39.34V	39.53V
Short-circuit Current (Isc)	13.51A	13.58A	13.65A	13.72A	13.80A
Module Efficiency STC (%)	21.51%	21.76%	22.02%	22.28%	22.53%

*STC: ☉ Irradiance 1000W/m²

☁ Cell Temperature 25°C

☀ AM = 1.5

☀ NOCT: ☉ Irradiance 800W/m²

☁ Ambient Temperature 20°C

☀ AM = 1.5

☀ Wind Speed 1m/s

*Power measurement tolerance ±3%

The company reserves the final right for explanation on any of the information presented hereby. JKM420N-S4HL4-B F4-US

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