7. CASE 23.085, 177 GEORGE STREET, Frederick M. Sackett House, 1894 (POWER-COOKE)

Stone, Carpenter& Wilson, architects. Colonial Revival; 2-1/2stories; clapboard; gambrel roof with pedimented dormers, balustrade, modillion cornice; Three-bay façade with pedimented central section including Palladian window and semi-circular Doric entrance portico flanked by major order Ionic pilasters. CONTRIBUTING



Arrow indicates 177 George Street.



Arrow indicates project location, looking north.

PHDC Staff Report July 24, 2023

Applicant/Contractor: Rooftop Power, Dan Fisher, 275 West Natick Rd, Suite 800, Warwick, RI 02886

Owner: David Keefe, 177 George Street, Providence, RI 02906

Proposal: The scope of work proposed consists of Minor Alterations and includes:

• installation of 19 solar panels to the upper south slope of the gambrel roof and eight panels to the south slope of the detached garage's side-gable roof.

Issues: The following issues are relevant to this application:

- The proposed installation will not be visible from the public rights-of-way;
- The proposed conduit runs over the roof to the north slope. Staff recommends this be relocated to running of the south slope and down the West elevation of the building;
- The modifications as proposed meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, in the following manner: Panel layout shall be sympathetic or appropriate to design and scale of building. Rectangular configurations are preferred, with ample setback from edge of roof, dormers, chimneys, etc. (2.A); Panels shall be installed parallel to the existing roof slope and matched as closely as possible to the roof plane (2.B); Panels shall be installed without destroying or replacing original or historic materials or significantly compromising or altering the building's structural integrity (2.C); Panels shall be compatible in color to existing roofing insofar as possible (2.D); Installation of panels shall be as inconspicuous as possible when viewed from public right-of-way (2.E); Installation shall be reversible. Panels shall be removed when no longer viable or functioning and roofing restored to pre-existing conditions (2.F); and,
- Plans, specifications and pictures have been submitted.

Recommendations: The staff recommends the PHDC make the following findings of fact:

- a) 177 George Street is a structure of historical and architectural significance that contributes to the significance of the College Hill local historic district, having been recognized as a contributing structure to the College Hill National Historic Landmarks District;
- b) The modifications as proposed meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, and the application is considered complete; and,
- c) The work as proposed is in accord with PHDC Standards 8 & 9 as follows: 8) the work will be done so that it does not destroy the historic character of the property or the district as they are not on the primary elevation and will not visible from the public rights-of-way; and, 9) Whenever possible... alterations to structures shall be done in such a manner that if removed in the future, the essential form and integrity of the structure and the site will be unimpaired.

Staff recommends a motion be made stating that: The application is considered complete. 177 George Street is a structure of historical and architectural significance that contributes to the significance of the College Hill local historic district, having been recognized as a contributing structure to the College Hill National Historic Landmarks District. The Commission grants Final Approval of the proposal as submitted as the proposed alteration is appropriate having determined that the proposed alteration does not destroy the historic character of the property or the district and are historically and architecturally compatible with the property and district as the proposed alteration meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, is reversible and will not have an adverse effect on the property or district as they are not on the primary elevation and will not be visible from the public rights-of-way (Standards 8 & 9), and the recommendations in the staff report, with staff to review any additional required details.

SCOPE OF WORK

TO INSTALL A ROOF MOUNTED SOLAR PHOTOVOLTAIC SYSTEM AT THE OWNER RESIDENCE
COATED AT 177 GEORGE ST. PROVIDENCE, RI 02906, USA.
COATED AT 177 GEORGE ST. PROVIDENCE, RI 02906, USA.
THE POWER GENERATED BY THE PV SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY
HIE POWER GENERATING ELECTRICAL SERVICE COULPMENT.
HE PV SYSTEM DOES NOT INCLUDE STORAGE BATTERIES.

QUIPMENT SUMMARY

27 REC REC420AA PURE-R MODULES

ENPHASE IQ7X-96-2-US [240V] MICROINVERTERS

NERAL NOTES

THESE CONSTRUCTION DOCUMENTS HAVE BEEN BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS IN CONSTRUCTION DETAILS.

ARCHITECT HAS NOT BEEN RETAINED TO SUPERVISE ANY CONSTRUCTION OR NSTALLATION OF ANY EQUIPMENT AT SITE.

CONTRACTOR HAS THE FULL RESPONSIBILITY TO CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS, ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE PROCECEDING WITH THE WORK, ANY WORK STATTED BEFORE CONSULTATION AND ACCEPTANCE BY THE ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CORRECTION BY THEM WITHOUT ADDITIONAL ONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, OBTAINS ALL SEMITS, LICENSES AND PAY ALL REQUIRED FEES AND COMPLETE INSTALLATION. OMPENSATION

DAMAGE CAUSED TO THE EXISTING STRUCTURE. PIPES, DUCTS, WINDOWS, WALL, FLOORS, ETC. SHALL BE REPAIRED TO THE ORIGINAL CONDITION OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK WITH APPROVED MATERIALS.

NO CHANGES ARE TO BE MADE WITHOUT THE CONSULTATION AND APPROVAL OF THE ARCHITECT.

CONTRACTOR SHALL OBTAIN BULDING PERMIT. NO WORK TO START UNLESS BUILDING PERMIT IS PROPERLY DISPLAYED.

ALL WORKMANSHIP AND MATERIALS SHALL BE OF FIRST QUALITY AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL BUILDING CODE, THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ALL PERTINENT AGENCIES.

THE CONTRACTOR SHALL PERFORM THE WORK IN STRICT CONFORMANCE WITH THE LOCAL LAWS, REGULATIONS AND THE NATIONAL ELECTRIC CODE. IT 1S ESSENTIAL THAT ALL WORK PROCEED WITH THE MAXIMUM COOPERATION OF ALL PARTIES AND WITH MINIMUM INTERFERENCE TO THE OCCUPANTS WITHIN THE BUILDING. THE OWNER'S DIRECTIONS IN THIS REGARD SHALL BE FULLY COMPLIED WITH.

THE CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, AFFIDAVITS, CERTIFICATIONS ETC. AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITIES. CONTRACTORS SHALL OBTAIN FIRE CERTIF, UPON COMPLETION OF WORK.

ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT. LECTRICAL NOTES

ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.

WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26. WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.

WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.

MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURERS INSTRUCTION. MODULE SUPPORT RAIL SHALL BE BONDED TO THE MODULE ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE

> 76 N Meadowbrook Drive, Alpine UT 8400 Myssling Consulting, PLLC Rhode Island COA #9333

Signed 6/13/2023

VICINITY MAP

SCALE: NTS

ANSI B 11" X 17"

SHEET SIZE

SHEET NUMBER

PV-1

OPPER SOUTH

DEESSIONAL ENGINEER

rovidence

Hope St

is ones

Trader Joe's

Point Park

COVER PAGE

SHEET NAME DATE: 6/13/2023 REGISTERED

TE. WYSSLIN

Olney St

Lloyd Ave

University Brown

SI Ist

GOVERNING CODES

SYSTEM RATING

PHOTOV

OLTAIC SYSTEM FIRE FICATION LISTING IN 1703

Smart Green Sol

1.340 KWDC

8.505 KWAC

SHEET INDEX

COVER PAGE

2020 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL BLIDING CODE
2018 INTERNATIONAL RESIDENTIAL CODE
2021 RHODE ISLAND STATE BUILDING CODE

- WIRING AND CONDUIT NOTES

 ALL CONDUIT SIZES AND TYPES SHALL BE LISTED FOR ITS PURPOSE AND APPROVAL FOR THE SITE APPLICATIONS
- ALL PV CABLES AND HOMERUN WIRES BE #10AWG *USE-2; PV WIRE, OR PROPRIETARY SOLAR CABLING SPECIFIED BY MFR, OR EQUIVALENT; ROUTED TO SOURCE CIRCUIT COMBINER BOXES AS REQUIRED
- ALL PV DC CONDUCTORS IN CONDUIT EXPOSED TO SUNLIGHT SHALL BE DERATED ACCORDING TO AS PER LATEST NEC CODE.
- EXPOSED ROOF PV DC CONDUCTORS SHALL BE USE-2, 90°C RATED, WET AND UV RESISTANT, AND UL LISTED RATED FOR 600V, UV RATED SPIRAL WRAP SHALL BE USED TO PROTECT WIRE FROM SHARP EDGES

PROJECT SITE

PV9-PV10

EQUIPMENT SPECIFICATIONS

DC SYSTEM SIZE: 11.340 KWDC

(27) ENPHASE IQ7X-96-2-US [240V] (27) REC REC420AA PURE-R

SYSTEM INFO

AC SYSTEM SIZE: 8.505 KWAC

METER: 10261683

PV5-PV6 8 8 PV4 S PV2 S

ELECTRICAL LINE & CALCS. SPECIFICATIONS & NOTES

STRING LAYOUT & BOM ATTACHMENT DETAILS

ROOF PLAN SITE PLAN

- PHASE AND NEUTRAL CONDUCTORS SHALL BE DUAL RATED THHWITHWIN-2 INSULATED, 90°C RATED, WET AND UV RESISTANT, RATED FOR 1000V AS PER APPLICABLE NEC
- 4-WIRE DELTA CONNECTED SYSTEMS HAVE THE PHASE WITH THE HIGHER VOLTAGE TO GROUND MARKED ORANGE OR IDENTIFIED BY OTHER EFFECTIVE MEANS
- ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE CIRCUIT PROTECTION

VOLTAGE DROP LIMITED TO 2%





SCALE: NTS

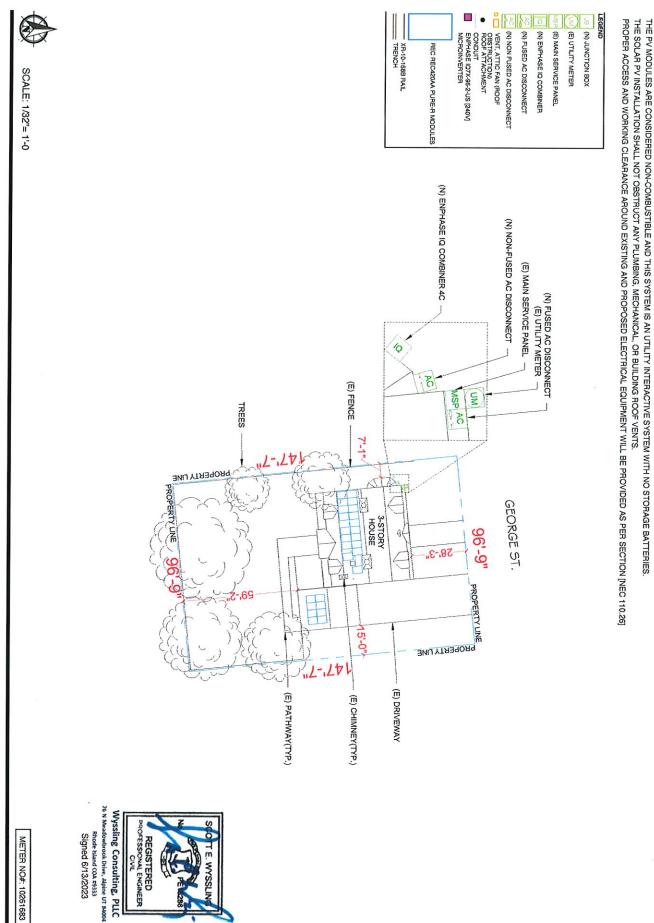
JACK GOLDSTEIN RESIDENCE



		DESCRIPTION	REV	
		DATE	REVISIONS	
				ı

EMAIL ID: JDGOLDSTEIN@GMAIL.COM PHONE NO. (401) 864-4468

177 GEORGE ST, PROVIDENCE, RI 02906, USA



PV-2

SHEET NUMBER ANSI B 11" X 17"

SITE PLAN SHEET SIZE

DATE: 6/13/2023

SHEET NAME

EMAIL ID: JDGOLDSTEIN@GMAIL.COM PHONE NO. (401) 864-4468

RESIDENCE 177 GEORGE ST, PROVIDENCE, RI 02906, USA

JACK GOLDSTEIN

METER: 10261683

PROJECT NAME & ADDRESS

(27) ENPHASE Q7X-96-2-US [240V] (27) REC REC420AA PURE-R SYSTEM INFO SMART GREEN 33 BROAD ST SUITE 500, PROVIDENCE, RI 02903, USA PH# : (774) 502-5948

Smart Green Sola

<u>NITE NOTES A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.</u>

