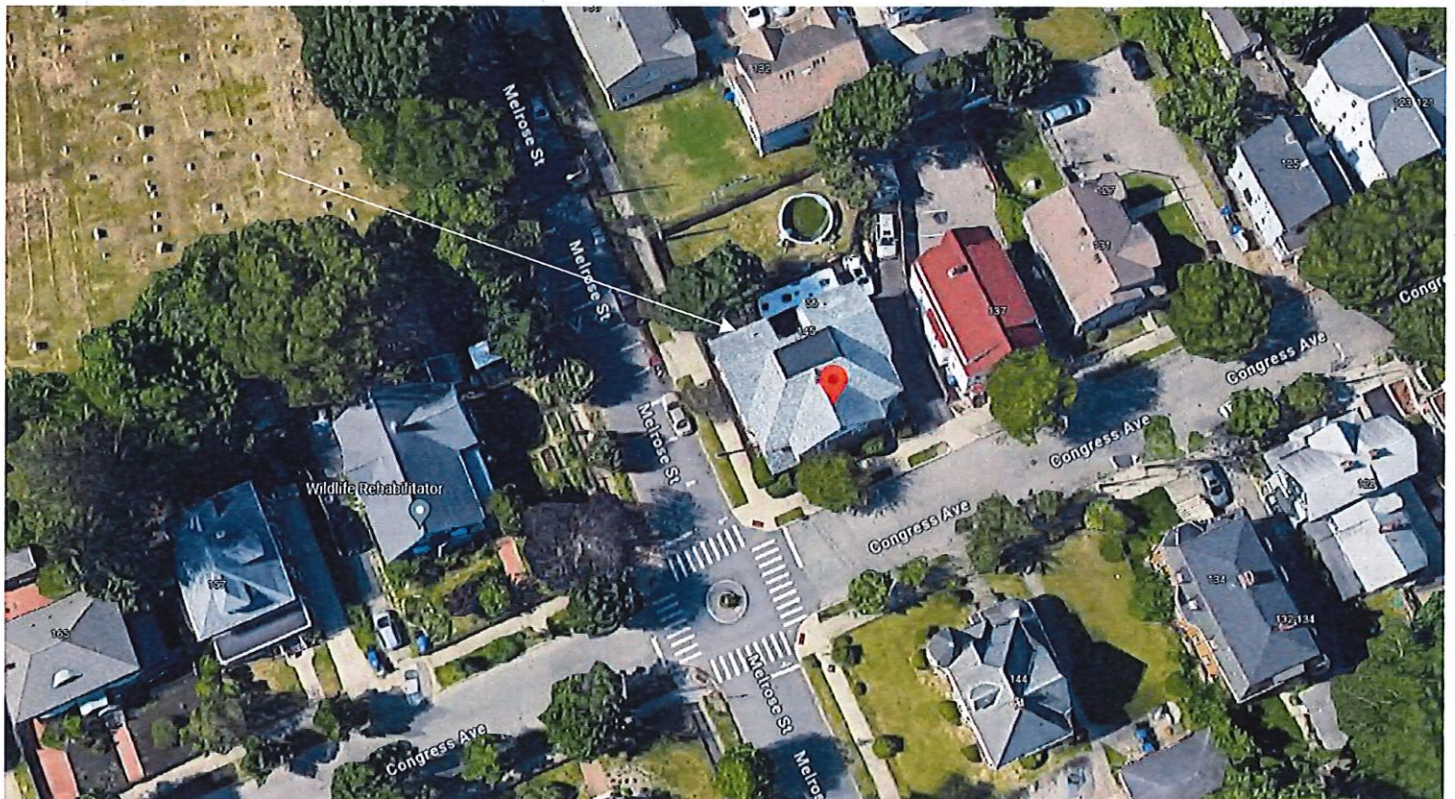


5. CASE 23.132, 143 CONGRESS AVENUE, House, 1905 (SOUTH ELMWOOD)
CONTRIBUTING



Arrow indicates 143 Congress Avenue.



Arrow indicates project location, looking north.

Applicant/Contractor: Melissa Fleming, Freedom Forever Massachusetts, LLC, 135 Robert Treat Paine Dr., Taunton, MA 02780
Owner: Jermaine Henry, 143-145 Congress Avenue, Providence, RI 02907

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

- the installation of 16 solar panels, seven on the west and nine on the east portion of the rear, south slope of the hip roof.

Issues: The following issues are relevant to this application:

- The modifications as proposed will be visible from the public rights-of-way, although they are at the rear of the building;
- The proposal before the Commission is a reduced plan. Staff requested the applicants reduce the number of panels originally proposed as there was a substantial number of panels on the front elevations, particularly the south east corner, that would have been highly visible from within the district due to the buildings prominent position on the corner of Melrose and Congress;
- 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) 143 Congress Avenue is a structure of historical and architectural significance that contributes to the significance of the South Elmwood local historic district, having been recognized as a contributing structure to the Elmwood National Register Historic 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 be minimally-to-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. Elmwood local historic district, having been recognized as a contributing structure to the Elmwood National Register Historic 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 be minimally 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.

ROOF MOUNT PHOTOVOLTAIC SYSTEM

CODES:

THIS PROJECT COMPLIES WITH THE FOLLOWING:
 2021 RHODE ISLAND BUILDING CODE
 2021 RHODE ISLAND RESIDENTIAL CODE
 2021 RHODE ISLAND FIRE CODE
 2021 RHODE ISLAND PLUMBING CODE
 2021 RHODE ISLAND MECHANICAL CODE
 2021 RHODE ISLAND ENERGY CODE
 2021 RHODE ISLAND ADMINISTRATIVE CODE
 2021 RHODE ISLAND ELECTRICAL CODE
 AS ADOPTED BY CITY OF PROVIDENCE (RI)

VICINITY MAP:

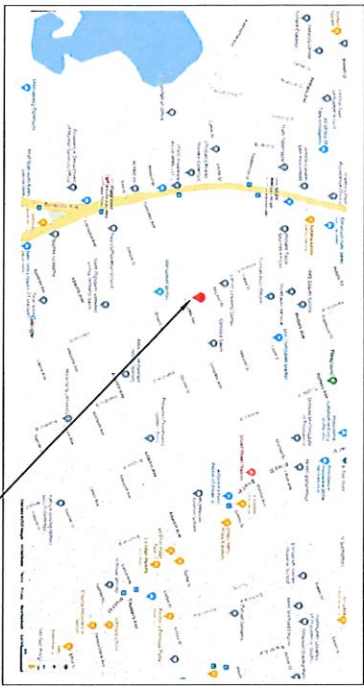


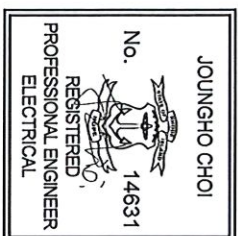
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PV-2	SITE PLAN
PV-2A	ROOF PLAN WITH MODULES LAYOUT
PV-2B	ROOF AND STRUCTURAL TABLES
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PV-4	THREE LINE DIAGRAM
PV-5	CONDUCTOR CALCULATIONS
PV-6	EQUIPMENT & SERVICE LIST
PV-7	LABELS
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PV-10	SAFETY PLAN
APPENDIX	MANUFACTURER SPECIFICATION SHEETS

CONSTRUCTION NOTES:

CONDUIT AND CONDUCTOR SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING AS REQUIRED BY FIELD CONDITIONS.
 ALL SOLAR ENERGY SYSTEM EQUIPMENT SHALL BE SCREENED TO THE MAXIMUM EXTENT POSSIBLE AND SHALL BE PAINTED A COLOR SIMILAR TO THE SURFACE UPON WHICH THEY ARE MOUNTED.
 MODULES SHALL BE TESTED, LISTED AND IDENTIFIED WITH FIRE CLASSIFICATION IN ACCORDANCE WITH UL 2703. SMOKE AND CARBON MONOXIDE ALARMS ARE REQUIRED PER SECTION R314 AND 315 TO BE VERIFIED AND INSPECTED BY INSPECTOR IN THE FIELD.
 DIG ALERT (811) TO BE CONTACTED AND COMPLIANCE WITH EXCAVATION SAFETY PRIOR TO ANY EXCAVATION TAKING PLACE
 PHOTOVOLTAIC SYSTEM GROUND WILL BE TIED INTO EXISTING GROUND AT MAIN SERVICE FROM DC DISCONNECT/INVERTER AS PER 2017 NEC SEC 250.168(A).
 SOLAR PHOTOVOLTAIC SYSTEM EQUIPMENT WILL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF ART. 690 OF THE 2017 NEC
 THE MAIN SERVICE PANEL WILL BE EQUIPPED WITH A GROUND ROD OR USER
 UTILITY COMPANY WILL BE NOTIFIED PRIOR TO ACTIVATION OF THE SOLAR PV SYSTEM

INSTALL CREW TO VERIFY ROOF STRUCTURE PRIOR TO COMMENCING WORK. EMT CONDUIT ATTACHED TO THE ROOF USING CONDUIT MOUNT.



Jounggho Choi
 Date: 2023.09.01 08:16:10

Digitally signed by Jounggho Choi
 Date: 2023.09.01 08:16:10
 +04100'

CLIENT:
 JERMANE HENRY
 145 CONGRESS AVENUE, PROVIDENCE, RI 02907
 CITY OF PROVIDENCE (RI)
 1111 RHOODE ISLAND ENERGY
 METER: 10294183
 PHONE: (401) 429-7593
 EMAIL: JERMANE.HENRY@YAHOO.COM
 FINANCE: SUNRUN

SYSTEM SIZE (DC): 14 X 380 = 5,320 W
 SYSTEM SIZE (AC): 4,640 W @ 240V
 MODULES: 16 X JINKO SOLAR JAKS04M4R1.3-B
 MICROINVERTERS: 16 X ENVISSURE (MPPLU5725-2US)

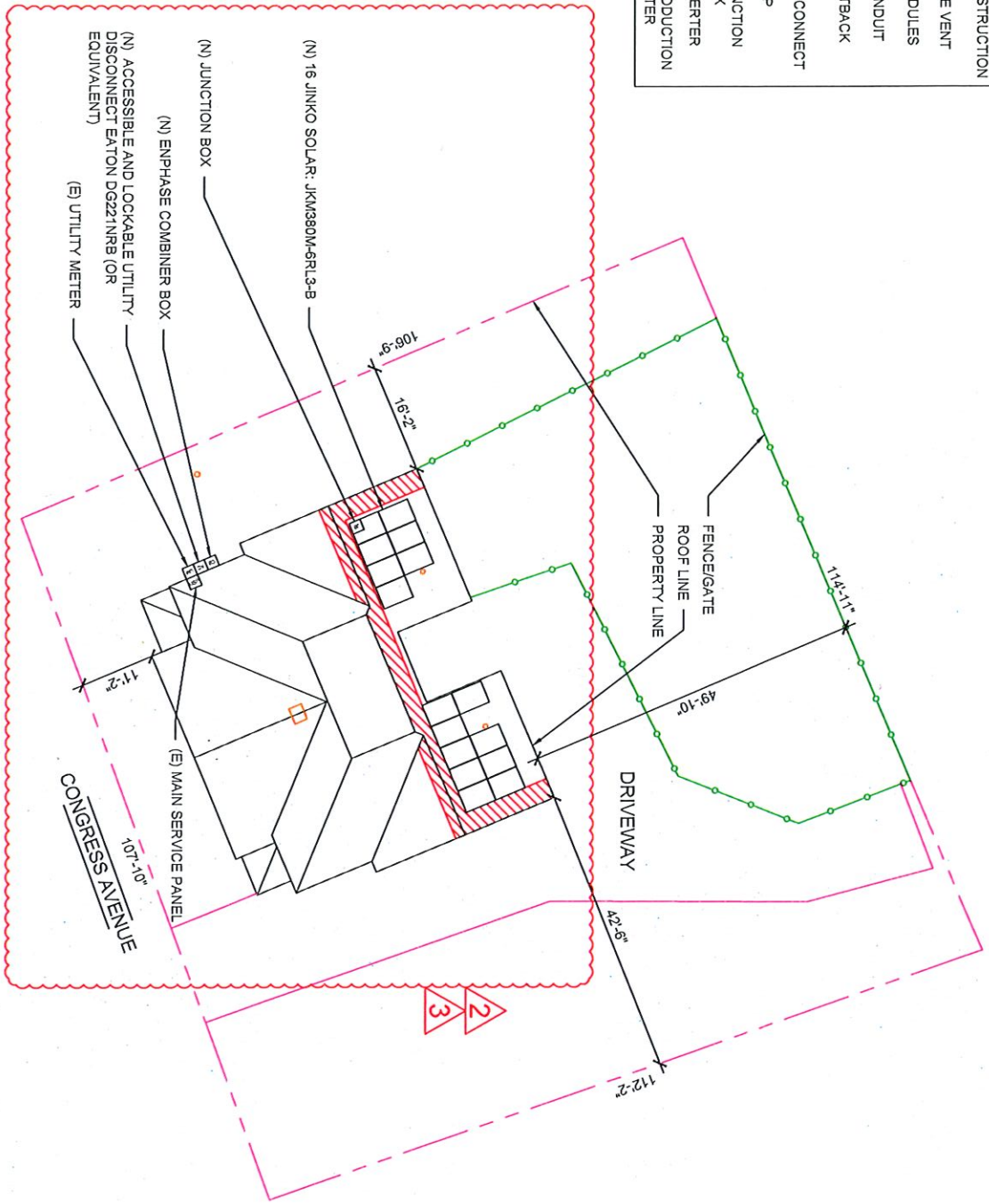
NO.	REVISIONS	DATE
1	R.K.	02/20/2023
2	R.K.	02/20/2023
3	R.K.	09/12/2023

135 ROBERT TRENT PAVINE DR., TAVANTON, RI 02907
 Tel: (800) 365-075
 GREG ALBRICHT

freedom FOREVER
 CONTRACTOR LICENSE
 E80163000 ELECTRICAL CONTRACTOR
 PROFESSIONAL CERTIFICATE REC-106
 GENERAL CONTRACTOR DC-4187

JOB NO.	DATE	DESIGNED BY	SHEET
348204	09/12/2023	R.K.	PV-1

LEGEND:	
	OBSTRUCTION
	PIPE VENT
	MODULES
	CONDUIT
	SETBACK
	AC DISCONNECT
	MSP
	JUNCTION BOX
	INVERTER
	PRODUCTION METER



SITE PLAN
SCALE: 1/16" = 1'-0"

1

JOUNGHO CHOI
 No. 14631

 REGISTERED
 PROFESSIONAL ENGINEER
 ELECTRICAL

ROOF AREA: 2882.37 SQ. FT.

CLIENT:
 JERMANE HENRY
 145 CONGRESS AVENUE, PROVIDENCE, RI 02907
 ATT: CITY OF PROVIDENCE (RI)
 CITY OF PROVIDENCE AND ENERGY METER: 10294183
 PHONE: (401) 428-7593
 EMAIL: JERMANE.HENRY@YAHOO.COM
 FINANCE: SUNRUN

SYSTEM SIZE (DC): 14 X 398 = 5,572 W
 SYSTEM SIZE (AC): 4,640 W @ 290V
 MODULES: 16 X JINKO SOLAR JKM390M-6R1.3-B
 MICROINVERTERS: 16 X ENPHASE MIPR-LU5725-2US

NO.	REVISIONS	DATE
1	R.K.	06/20/2023
2	R.K.	06/20/2023
3	R.K.	06/12/2023

freedom
 POWER

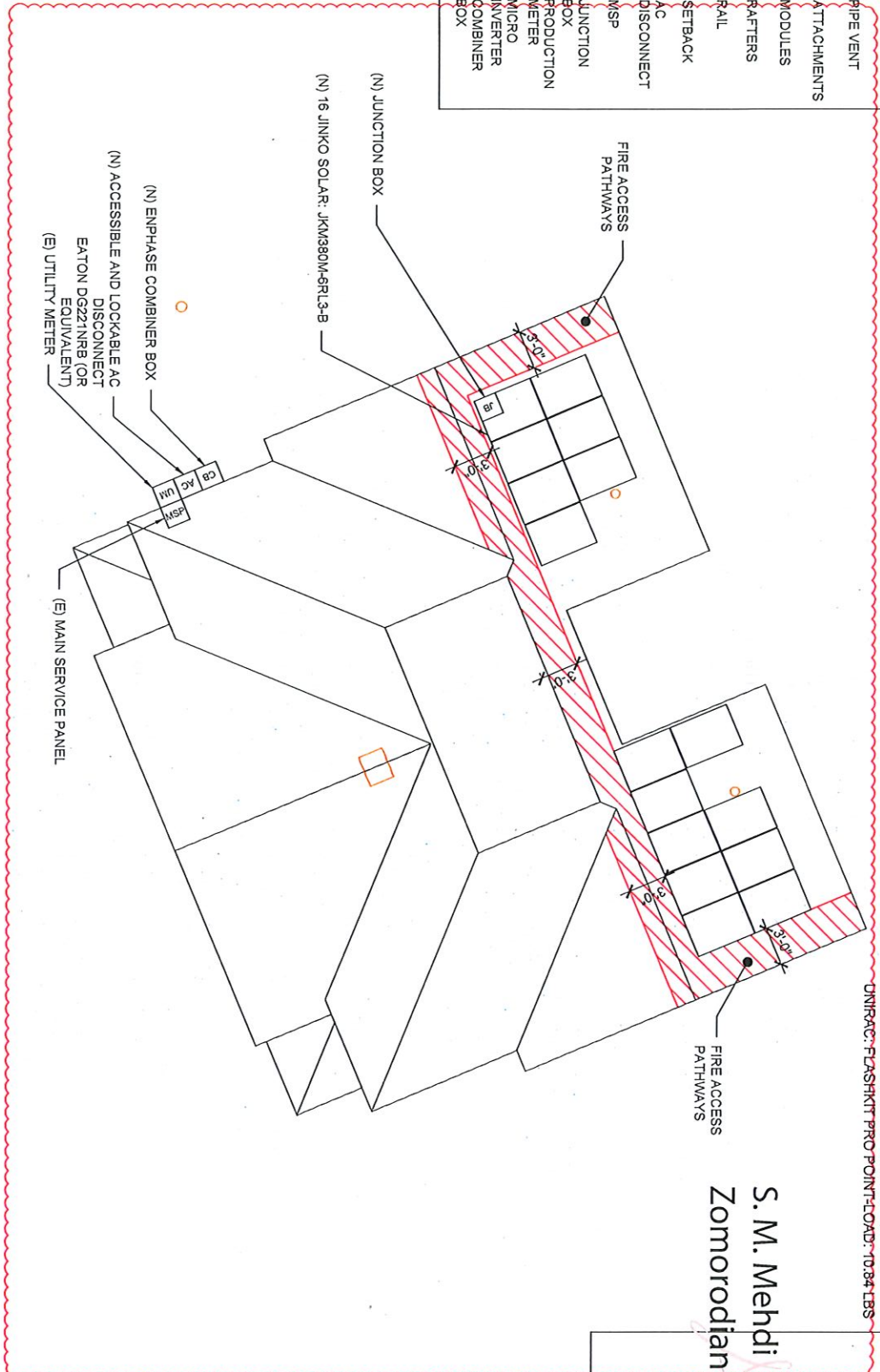
135 ROBERT TREAY PAVINE DR., TAUNTON, MA 01969
 Tel: (900) 365-1075
 GREG ALBRICHT

CONTRACTOR LICENSE
 EPH168000 ELECTRICAL CONTRACTOR
 PROFESSIONAL CERTIFICATE REC-C-186
 GENERAL CONTRACTOR CC-4187

JOB NO.	DATE	DESIGNED BY	SHEET
348024	03/12/23	R.K.	P1-2

LEGEND:

- CHIMNEY
- PIPE VENT
- ATTACHMENTS
- MODULES
- RAFTERS
- RAIL
- SETBACK
- AC DISCONNECT
- MSP
- JB
- PRODUCTION BOX
- METER
- MICRO INVERTER
- COMBINER BOX



TOTAL ROOF AREA: 2882.37 SQ FT
 TOTAL ARRAY AREA: 328.74 SQ FT
 ARRAY COVERAGE: 11.41%
 SYSTEM DISTRIBUTED WEIGHT: 2.31 LBS
 UNIFORM: FLASHKIT PRO POINT-LOAD: 10.84 LBS

S. M. Mehdi
 Zomorodian

S. M. MEHDI ZOMORODIAN
 Digitally signed by S. M. Mehdi Zomorodian
 M. Mehdi Zomorodian 14323
 Date: 2013.09.01 11:50:00
 REGISTERED PROFESSIONAL ENGINEER
 STRUCTURAL

ROOF PLAN
 SCALE: 1/8" = 1'-0"

1

- NOTES:
1. EMT CONDUIT ATTACHED TO THE ROOF USING CONDUIT MOUNTS
 2. ATTACHED CLAMPS AT 25% FROM THE EDGE AND 50% FROM THE CENTER OF THE MODULES
 3. JUNCTION BOX IS MOUNTED TO THE RAIL.

NO.	REVISIONS	DATE
1	R.K.	02/20/2013
2	R.K.	02/20/2013
3	R.K.	09/15/2013

CLIENT:
 JERMANE HENRY
 145 CONGRESS AVENUE, PROVIDENCE, RI 02907
 ATTY: CITY OF PROVIDENCE (RI)
 145 CONGRESS AVENUE, PROVIDENCE, RI 02907
 METER: 10294151
 PHONE: (401) 429-7593
 EMAIL: JERMANE.HENRY@YAHOO.COM
 FINANCE: SUNRUN

SYSTEM:
 SIZE: 16 X 396 - 6.990 MW
 SYSTEM SIZE (AC): 14.400 MW @ 250V
 MODULES: 16 X JINKO SOLAR JKM390M-6RL3-B
 MICROINVERTERS: 16 X ENPHASE ICP1-UD725-240

135 ROBERT TRACY PAINE DR., TAUNTON, MA 01960
 Tel: (603) 365-1075
 GREG ALBRIGHT

CONTRACTOR LICENSE:
 EPH14000000 ELECTRICIAN CONTRACTOR
 PROFESSIONAL CERTIFICATE REC-C-106
 GENERAL CONTRACTOR OC-4187

ROOF PLAN WITH MODULES LAYOUT
 JOB NO: 135TRACYPAINE
 DATE: 09/15/2013
 DESIGNED BY: R.K.
 SHEET: PV-2A



← 143 congress avenue providen 🔍 ✕



Google

56 Melrose St
Providence, Rhode Island
Google Street View
Juli 2019 See more dates

