



70 TAPLEY STREET
SPRINGFIELD, MA 01104
413.787.6020
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MEETING AGENDA

DATE: Thursday, December 4, 2025

TIME: 5:30 PM

PLACE: Congressman Richard E. Neal Municipal Operations Center
Video Conference Room
70 Tapley Street, Springfield, MA 01104

I. ROLL CALL & PROCEDURES

II. ACCEPTANCE OF MINUTES

- 1) *SPRINGFIELD HISTORICAL COMMISSION MEETING HELD ON NOVEMBER 6, 2025*

III. OTHER MATTERS PROPERLY BEFORE THE COMMISSION

- 1) *INDIAN ORCHARD FIRE STATION (E S OAK STREET 10 / 09182-0219):* Replace Overhead Doors

IV. PUBLIC HEARINGS (Continued)

- 1) *102 THOMPSON STREET:* Porch Renovations (In Response to Stop Work Order)
- 2) *47 WESTMINSTER STREET:* Construction of Rear Deck (In Response to Stop Work Order)
- 3) *137 BELLEVUE AVENUE:* Replace Roof & Install Solar Powered Panels
- 4) *238 SUMNER AVENUE:* Windows and Siding
- 5) *104 BOWDOIN STREET:* Installation of a Fence (In Response to a Violation)

V. PUBLIC HEARINGS (New)

- 1) *257 PINE STREET:* Solar Powered Panels
- 2) *114 HARVARD STREET:* Solar Powered Panels
- 3) *165 WESTMINSTER STREET:* Solar Powered Panels
- 4) *92 FIRGLADE AVENUE:* Solar Powered Panels
- 5) *17 OXFORD STREET:* Windows

VI. OTHER MATTERS PROPERLY BEFORE THE COMMISSION

- 1) *2026 HISTORIC COMMISSION SCHEDULE*
- 2) *ADMINISTRATIVE UPDATES*
- 3) *CORRESPONDENCE TO COMMISSION*
- 4) *DECEMBER 4, 2025 QUORUM CALL*
- 5) *PUBLIC SPEAK-OUT SESSION*

SPRINGFIELD HISTORICAL COMMISSION

THURSDAY, DECEMBER 4, 2025 | HEARING OVERVIEWS

CONTINUED HEARINGS

102 THOMPSON STREET (HARDSHIP) – DE FACTO APPROBAL

- **STAFF NOTES:**
 - Staff was unable to coordinate a site visit with the landowner after multiple efforts.
 - Staff has been unable to follow-up with the applicant about extending the application at the time of this writing; since the Commission only extended this application to the November 20, 2025 meeting, and Staff is unable to contact the Petitioner, the application should move into a de facto approval state.
- **REASON FOR CONTINUANCE:** The hearing was continued for the purpose of allowing the Petitioner to research how to recreate and restore the historic railing, and then continued again to allow the Petitioner to attend to a matter in California for the month of September.
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Hardship for the purposes of obtaining approval for the already completed exterior renovations of the first- and second-floor front porches. When comparing the completed work with what previously existed:
 - **First Floor Front Porch**
 - The front porch steps black pipe handrail was replaced with what appears to be two wooden railings, presumably pressure treated, with the spindles/balusters affixed to the front of the rails instead of sitting in-between the two rails;
 - The porch railings were completely replaced with what appears to be pressure-treated wood, with the spindles/balusters affixed to the front of the rails instead sitting in-between the two rails; and
 - The wood decking was replaced with pressure-treated wood.
 - **Second Floor Front Porch**
 - The porch railings were completely replaced with presumably pressure-treated wood. The spindles/balusters appear to be affixed to the back of the rails instead of sitting in-between the two rails;
 - The wood shakes could potentially have been replaced
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:**
 - Jim Boone

223 LONGHILL STREET (APPROPRIATENESS) – DE FACTO APPROVAL

- **STAFF NOTES:**

- The Petitioner chose not to request a 30-day extension, and instead elected automatic approval since the 60-day review period had expired. The application will therefore be approved after November 28, 2025.
- Staff was informed by the Petitioner, which was subsequently confirmed, that the meter was already installed. The meter had been installed towards the front northwest corner of the building.
- **LOCAL HISTORIC DISTRICT:** Forest Park Heights
- **APPLICATION SUBMISSION DATE:** Monday, September 29, 2025
- **APPLICATION EXPIRATION DATE:** Friday, November 28, 2025
- **REASON FOR CONTINUANCE:** The hearing was continued because the Petitioner was unable to attend the Commission's last meeting.
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing an electric meter onto the north side of the building, as far back from the front of the building as possible.
- **STAFF NOTES:** Staff was informed by the Petitioner, which was subsequently confirmed, that the meter was already installed. The meter has been installed towards the front northwest corner of the building.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** n/a

79 THOMPSON STREET (HARDSHIP) – CONTINUED TO DECEMBER 18, AGENDA

- **STAFF NOTE:** The Petitioner requested a 30-day extension and to be moved to the December 18, 2025 meeting agenda.
- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Wednesday, October 1, 2025
- **APPLICATION EXPIRATION DATE:** Sunday, November 30, 2025
- **REASON FOR CONTINUANCE:** The hearing was continued to allow the Petitioner to ascertain the definitive location of where the utility equipment and conduit will be installed.
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Hardship for the purposes of installing four (4) solar powered panels onto the west facing side of the roof of the detached garage with the utility equipment being placed onto the north side of the principal building (the single-family dwelling); and the conduit is to be placed on the north side of the detached garage.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** None
- **DRAFT EXTENSION& CONTINUANCE MOTION:**

To accept the proposed 30-day extension request and continue the hearing to the December 18, 2025 meeting agenda.

47 WESTMINSTER STREET (HARDSHIP)

- **Staff Note:**
 - The Building Department confirmed that the rear porch was not constructed to code.
 - The Petitioner had requested a 30-day extension.
- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Thursday, September 25, 2025
- **APPLICATION EXPIRATION DATE:** Monday, November 24, 2025
- **REASON FOR CONTINUANCE:** The hearing was continued to allow Staff to get confirmation from the Building Department that the structure being reviewed was legal and could remain should the Commission grant approval.
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Hardship in response to a Stop Work Order for the purposes of getting approval for an already constructed rear entry deck. The deck is comprised of pressure-treated wood. The Petitioner's position is that to demo and rebuild a porch with historic features would cause a financial hardship.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:**
 - Jim Boone
- **DRAFT HARDSHIP MOTION:**
 - The Commission should ascertain and make findings about the hardship.
- **DRAFT APPROVAL MOTION:**
 - The Commission should ascertain the information needed to formulate a motion for approval.

137 BELLEVUE AVENUE (APPROPRIATENESS/HARDSHIP)

- **LOCAL HISTORIC DISTRICT:** Forest Park Heights
- **APPLICATION SUBMISSION DATE:** Monday, October 27, 2025
- **APPLICATION EXPIRATION DATE:** Friday, December 26, 2025
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness/Hardship for the purpose of installing 26 solar powered panels onto the south side of the primary building and all sides of the detached garage, with the utility equipment being placed at the back west side of the building. The conduit will be trenched from the garage to the west side of the primary building. The conduit on the primary building is presumed located at the back west side of the building.
- **STAFF COMMENTS:**
 - The Commission should ascertain the location of the conduit on the primary building.
 - The Commission should see if the utility equipment and conduit on the primary building can be located to the rear of the building.
- **LETTER OF AUTHORIZATION:** Yes (Trinity Solar on behalf of Fred Swan)
- **SUBMITTED WRITTEN COMMENT:** n/a

- **DRAFT APPROVAL MOTION:**

To approve the proposed installation of 26 solar powered panels onto the south side of the primary building and all sides of the detached garage, with the utility equipment being placed at the back west side of the primary building; the conduit from the garage will be trenched to the rear west side of the primary building; and the conduit on the primary building will traverse the rear west side of the building, as presented in the application and during this evening's hearing.

238 SUMNER AVENUE (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** Forest Park Heights
 - **APPLICATION SUBMISSION DATE:** Tuesday, November 4, 2025
 - **APPLICATION EXPIRATION DATE:** Saturday, January 3, 2025
 - **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purposes of:
 - **Windows:** Replacing 33 double-hung, single-pane green, tan, and unpainted wooden windows with Simonton 5500 Reflections (Model #: 5500) double-hung, double-pane, tan vinyl windows.
 - **Bathroom Window:** Reducing the size of the bathroom window from a full-sized window to a smaller stationary window, which would also require siding installation, which will match the existing siding currently in place.
 - **LETTER OF AUTHORIZATION:** n/a
 - **SUBMITTED WRITTEN COMMENT:** None
 - **DRAFT APPROVAL MOTION:**

To approve the proposed replacement of 33 double-hung, single-pane green, tan, and unpainted wooden windows with Simonton 5500 Reflections (Model #: 5500) double-hung, double-pane, tan vinyl windows, which includes reducing the size of the bathroom window from a full-sized window to a small stationary window, resulting in siding installation, which will match the existing siding currently in place, as presented in the application and during this evening's hearing.
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104 BOWDOIN STREET (APPROPRIATENESS/HARDSHIP)

- **LOCAL HISTORIC DISTRICT:** McKnight
 - **APPLICATION SUBMISSION DATE:** Wednesday, October 29, 2025
 - **APPLICATION EXPIRATION DATE:** Sunday, December 28, 2025
 - **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness/Hardship in response to a violation for the purposes of obtaining approval for an already installed cedar fence between the foundation line and the public right-of-way.
 - **LETTER OF AUTHORIZATION:** n/a
 - **SUBMITTED WRITTEN COMMENT:** None
 - **DRAFT APPROVAL MOTION:**

To approve the already installed cedar fence, which has been placed between the foundation line and the public right-of-way, as presented in the application during the evening's hearing.
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NEW HEARINGS

257 PINE STREET (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** Maple Hill
- **APPLICATION SUBMISSION DATE:** Monday, November 10, 2025
- **APPLICATION EXPIRATION DATE:** Friday, January 9, 2025
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing 56 solar powered panels onto the east rear side of the primary building, as well as on the entire roof of the detached garage, with the utility equipment being placed at the south side of the primary building towards the front of the building. The conduit will be trenched from the garage to the east rear side of the primary building. The conduit on the primary building is presumed located at the south side of the building.
- **STAFF COMMENTS:**
 - The Commission should ascertain the location of the conduit on the primary building.
 - Sunrun confirmed that the equipment could be relocated onto either the rear or north side of the building; the Commission should see if the utility equipment and conduit on the primary building will be located as advised.
- **LETTER OF AUTHORIZATION:** Yes (Sunrun on behalf of Freddy Lewis)
- **SUBMITTED WRITTEN COMMENT:** n/a
- **DRAFT APPROVAL MOTION:**

To approve the proposed installation of 56 solar powered panels onto the east rear side of the primary building and all sides of the detached garage, with the utility equipment being placed at the south side of the primary building; the conduit from the garage will be trenched to the east rear side of the primary building; and the conduit on the primary building being affixed to the [REDACTED] side of the building, as presented in the application and during this evening's hearing.

114 HARVARD STREET (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Thursday, November 13, 2025
- **APPLICATION EXPIRATION DATE:** Monday, January 12, 2025
- **STAFF COMMENTS:**
 - The application provides that the conduit will be determined at installation; the Commission should ascertain the location of the conduit on the primary building.
- **APPLICATION OVERVIEW:** **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing 13 solar powered panels onto all sides the detached garage located at the rear (south) side of the property, with the utility equipment being placed at the south rear side of the primary building. The conduit will be trenched from the garage to the south rear side of the primary building.

- **LETTER OF AUTHORIZATION:** Yes (Trinity Solar on behalf of Charles Muthua)
- **SUBMITTED WRITTEN COMMENT:** None
- **DRAFT APPROVAL MOTION:**

To approve the proposed installation of 13 solar powered panels onto all sides of the detached garage located at the rear (south) side of the property, with the utility equipment being placed at the south rear side of the primary building; the conduit from the garage will be trenched to the south rear side of the primary building, as presented in the application and during this evening's hearing.

165 WESTMINSTER STREET (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Thursday, November 13, 2025
- **APPLICATION EXPIRATION DATE:** Monday, January 12, 2025
- **APPLICATION OVERVIEW: APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing 17 solar powered panels onto all sides the primary building, with the utility equipment being placed at the south side of the primary building, tucked behind the front porch – minimally visible from the public way. The conduit will be located inside the building and presumed be connecting with the equipment at the south side of the building.
- **STAFF COMMENTS:**
 - The Commission should ascertain the location of the conduit on the primary building.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** None
- **DRAFT APPROVAL MOTION:**

To approve the proposed installation of 17 solar powered panels onto all sides of the primary building, with the utility equipment being placed at the south side of the primary building, tucked behind the front porch; the conduit will presumably be located on the south side of the building connecting with the installed equipment there, as presented in the application and during this evening's hearing.

92 FIRGLADE AVENUE (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** Forest Park Heights
- **APPLICATION SUBMISSION DATE:** TBA
- **APPLICATION EXPIRATION DATE:** TBD
- **APPLICATION OVERVIEW: APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing [REDACTED] solar powered panels onto the [REDACTED] side the primary building, with the utility equipment being placed at the [REDACTED] side of the primary building. The conduit will presumably be located on the [REDACTED] of the building connecting with the equipment.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** None

- **DRAFT APPROVAL MOTION:**

The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing [REDACTED] solar powered panels onto the [REDACTED] side the primary building, with the utility equipment being placed at the [REDACTED] side of the primary building; The conduit will presumably be located on the [REDACTED] of the building connecting with the equipment, as presented in the application and during this evening's hearing.

17 OXFORD STREET (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** Forest Park Heights
- **APPLICATION SUBMISSION DATE:** Thursday, November 13, 2025
- **APPLICATION EXPIRATION DATE:** Monday, January 12, 2025
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purposes of replacing eight (8) white basement single-pane wooden hooper windows containing exterior grids with eight (8) white basement double-pane Window World (Series 4000) vinyl slider windows containing no grids.
- **LETTER OF AUTHORIZATION:** Yes (Window World on behalf of Patrick Markey)
- **SUBMITTED WRITTEN COMMENT:** None
- **DRAFT APPROVAL MOTION:**

To approve the proposed replacement of eight (8) white basement single-pane wooden hooper windows containing exterior grids with eight (8) white basement double-pane Window World (Series 4000) vinyl slider windows containing no grids, as presented in the application during the evening's hearing.

SECTION 106 REVIEW

PROPERTY LYING SOUTH OF HALL OF FAME AVENUE FROM THE ENTRANCE TO SPRINGFIELD RIVERFRONT PARK TO THE PARKING LOT TO THE PARK (SECTION 106) - WITHDRAWN

- **STAFF COMMENTS:**
 - The Petitioner has requested that this application be withdrawn.
- **LOCAL HISTORIC DISTRICT:** None
- **APPLICATION SUBMISSION DATE:** Friday, November 14, 2025
- **APPLICATION EXPIRATION DATE:** Friday, December 14, 2025
- **APPLICATION OVERVIEW:** The Petitioner has submitted a Section 106 Review relating to property lying south of Hall of Fame Avenue – from the entrance to Springfield Riverfront Park to the Parking Lot to the Park. Renovations include reconstructing the existing parking area and install a new ADA compliant pathway from the parking area to the entrance of Riverfront Park.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** n/a
- **DRAFT APPROVAL MOTION:**

To find that the proposed project, as presented in the submitted materials and during the evening's meeting, will not be detrimental to the building and that the project will have no adverse impact.

OTHER MATTERS BEFORE THE COMMISSION

NONE

ADMINISTRATIVE UPDATES

- **QUESTIONS TO THE COMMISSION**

- *NONE*

- **RECENTLY APPROVED CERTIFICATES OF NON-APPLICABILITY**

- **39 BELLEVUE AVENUE** → Pallet Fence Behind Front Foundation Line
- **164 SHERMAN STREET** → White Vinyl Fence Behind Front Foundation Line
- **65 FIRGLADE AVENUE** → Repair Existing Rotted Front Porch Steps Floorboards
- **65 FIRGLADE AVENUE** → Replacement of Windows with Same Model Windows
- **34 WESTMINSTER STREET** → Replacement of Front Storm Door

- **NEW VIOLATIONS ISSUED**

- *NONE*

- **VIOLATION RESOLUTION IN PROGRESS**

- **104 BOWDOIN STREET** → Installation of a Wooden Fence (*Application on 11/20 Agenda*)
- **174 PINEYWOODS AVENUE** → Installation of Compressor Unit (*Contacted by Landowner*)
- **207 PINE STREET** → Deviations from Issued Certificate (*Expected on Future Agenda*)

- **UNRESOLVED VIOLATIONS**

- **21 MOUNTAIN VIEW STREET** → Did not resolve replacement windows that were part of the original 2023 application
- **158 SHERMAN STREET** → Replacement of Side and Front Porch Railings
- **19 NORMANDY STREET** → Foundation Painted; Replaced Front Door
- **275 PINE STREET** → Replacement of Rear Porch Railings

- **RESOLVED VIOLATIONS**

- **164 SHERMAN STREET** → Installation of a White Vinyl Fence (*Certificate of Non-Applicability Issued*)
- **34 WESTMINSTER** → Replacement of Front Storm Door (*Certificate of Non-Applicability*)
- **39 BELLEVUE AVENUE** → Installation of a Pallet Fence (*Certificate of Non-Applicability*)

- **STOP-WORK ORDERS ISSUED**

- *NONE*

- **INQUIRIES ISSUED**

- *NONE*



SPRINGFIELD HISTORICAL COMMISSION MEETING MINUTES

TUESDAY, NOVEMBER 6, 2025

COMMISSIONERS IN ATTENDANCE:

Judith Crowell (in-person)
Walter Kroll, Vice Chair (in-person)
Alfonso Nardi, Chair (in-person)
Vana Nespor (in-person)
Vincent Walsh (remote)
Marisa Zorzi (absent)

STAFF IN ATTENDANCE:

Andrew Strniste, Director of Community Planning (in-person)
Attorney Robert Shewchuk, Associate City Solicitor

PUBLIC IN ATTENDANCE:

April Mitchell-Edmonds (81 Clarendon Street | in-person)
Jose Claudio (100 Clayton Street | in-person)
Carol Dooney (Chicago | in-person)
Julian Loney (Maryland | in-person)
Cuck Kennedy (Unknown | in person)
Paul Jones (79 Thompson Street | in-person)
Harry Seymour (68 Washington Road | in-person)
Alan Vier (1041 Saint James Avenue | in-person)
Tim Dros (Pineywoods Avenue | in-person)
Melissa Mirhej (82 Pineywoodds Avenue | in-person)
Tracy Janik (2 Belmont Avenue, South Hadley | in-person)
Dwight Bell (243 Wilbraham Road | in-person)
Sarah Bell (243 Wilbraham Road | in-person)
Ovidia Lopez (47 Westminster Street | in-person)
J. Lopez (47 Westminster Street | in-person)
Rolando Meono (47 Westminster Street | in-person)

I. OPENING REMARKS

- Chair A. Nardi opened the meeting at 5:30 PM and informed the public of the Commission's meeting procedures for reviewing applications.

II. ROLL CALL

- Chair A. Nardi proceed with the evening's roll call:

<i>COMMISSIONER</i>	<i>ATTENDANCE</i>
<i>Chair Alfonso Nardi</i>	<i>Present – In-Person</i>

<i>Vice Chair Walter Kroll</i>	<i>Present – In-Person</i>
<i>Judi Crowell</i>	<i>Present – In-Person</i>
<i>Vana Nespor</i>	<i>Late – Entered at 5:35 PM</i>
<i>Vincent Walsh</i>	<i>Present – Remote</i>
<i>Marisa Zorzi</i>	<i>Absent</i>

III. **ACCEPTANCE OF MINUTES – OCTOBER 2, 2025**

MOTION TO APPROVE THE MINUTES OF OCTOBER 2, 2025	
CHAIR ALFONSO NARDI	YAY
VICE CHAIR WALTER KROLL	MOTION – YAY
JUDI CROWELL	SECONDER – YAY
VANA NESPOR	NOT PRESENT
VINCENT WALSH	YAY
MARISA ZORZI	ABSENT

- Commissioner W. Kroll made a motion to accept the Commissioner’s meeting minutes of October 2, 2025. The motion was seconded by Commissioner J. Crowell. With no discussion on the motion, the motion was approved unanimously.

IV. **OTHER MATTERS PROPERLY BEFORE THE COMMISSION – REDEVELOPMENT OF 113-115 STATE STREET (11110-0643), 1163 MAIN STREET (08130-0570), AND 11-21 STOCKBRIDGE STREET (11190-0044) OVERVIEW**

- Carol Dooney, from Chicago, Illinois, as well as Julian Looney, from College Park, Maryland, were before the Commission to provide an overview of the proposed project at the aforementioned addresses. Specifically, the addresses above are not located in a Local Historic District, nor listed on the National Register of Historic Places, thus not requiring formal approval by the Commission; however, a National Historic District is expected to be approved in the near future that would include the subject properties, and therefore, the representatives wanted to present the project to the Commission for transparency purposes and demonstrate that there will be no adverse impact to the subject buildings.
- C. Dooney commenced with informing the Commission that the recently approved project pertaining to the building at 1155 Main Street has commenced, and just recently, the clock had been restored and was lit.
- J. Looney informed the Commission that the subject properties spanned multiple blocks, and that there is a mindset to connect everything together, specifically with residential lobbies to enter both buildings on both opposing sides of Stockbridge Street. Retail space along Main Street, including space for restaurants, are proposed. There is a deliberate effort to reference back to what was there in the late-1800s and early-1900s, as the project team is researching what the store fronts looked like in that era.
- C. Dooney informed the Commission that the building at 1163 Main Street once contained residential units on the second floor.
- Chair A. Nardi confirmed with J. Looney that Stockbridge Street will remain one-way; that there is a deliberate effort to keep traffic slow. C. Dooney advised that there is an effort to be sensitive to the Music School’s needs along Stockbridge Street.

- J. Looney then informed the Commission that the existing garage will be eliminated, which did not previously exist in the early-1900s. C. Dooney advised that the windows that were removed and replaced with bricks will be restored back to being windows.
- J. Looney provided a brief overview of the previously approved Colonial Block project, specifically noting that they are looking to restore the façade back to how it appeared in the early-1900s. There is an emphasis on restoring light and providing more glass.
- Chair A. Nardi opined that he liked the proposal and that he appreciated the project team's transparency. He also opined that he thought the designers were being sensitive to the historic character of the buildings.

V. NEW PUBLIC HEARING – 81 CLARENDON STREET

MOTION TO APPROVE THE ADA ACCESSIBLE LIFT AT 81 CLARENDON STREET	
CHAIR ALFONSO NARDI	<i>YAY</i>
VICE CHAIR WALTER KROLL	<i>MOTION – YAY</i>
JUDI CROWELL	<i>SECONDER – YAY</i>
VANA NESPOR	<i>YAY</i>
VINCENT WALSH	<i>YAY</i>
MARISA ZORZI	<i>ABSENT</i>

- Due to the Petitioner having a conflict later in the evening, the Commission agreed to move this hearing up on the agenda. April Mitchell-Edmonds, the landowner of 81 Clarendon Street, was before the Commission to present the proposed project.
- A. Mitchell-Edmonds informed the Commission that the request was to install a wheelchair lift instead of a ramp, as it would be less disruptive and would be easily shielded behind vegetation. Her mother was aging in place and in need of an ADA accessible way of entering the residence, and that a ramp would encumber the walkway, noting the only feasible entrance was through the front entry double doors. A master carpenter was obtained to help with the design – a concrete pad will be poured with the lift being installed on-top; the railings will remain in place, a swinging gate railing to replicate the railings will be installed. The remaining railings will be repaired; all materials are obtained. A licensed contractor will be commissioned to help rebuild the deck.
- Chair A. Nardi inquired about the decking; A. Mitchell-Edmonds advised that the material will change to a composite material that is tongue and groove. She advised that higher quality materials were being obtained.
- Chair A. Nardi asked a clarifying question about the railing; A. Mitchell-Edmonds confirmed that the railing accessing the lift will be a swinging railing that will look exactly the same as the existing railing.
- Chair A. Nardi inquired as to whether the lift would be temporary; A. Mitchell-Edmonds responded in the affirmative noting that it would be good for the next generation in the event it was needed.
- Commissioner W. Kroll asked about the material of the decking, noting that the Commission generally does not approve a product without knowing the specifics about the product.

- Commissioner V. Nespor advised that the contractor would likely know the specifics about the materials. Staff Member A. Strniste could review previous approvals to see what materials have been previously approved.
- No public comment was provided.
- Chair A. Nardi advised that they could approve the application based on the sample presented during the evening's hearing.
- Commissioner V. Walsh opined that the lift is not the issue. Discussion about the composite tongue and groove sample product commenced. Commissioner V. Walsh opined that the direction of the decking boards was important. A. Mitchell-Edmonds advised that the boards would remain the same direction – perpendicular; that there is an effort being made to replicating and reinforcing the deck.
- Commissioner W. Kroll made a motion to approve the proposed construction of an ADA accessible lift onto the west side of the first-floor front porch, as presented in the application and during the evening's hearing with the condition of removing the lift when it is no longer required, and that the proposed reconstruction of the deck be comprised of the tongue and groove composite board presented at the evening hearing, ensuring that the boards are perpendicular as discussed. The motion was seconded by Commissioner J. Crowell. Commissioner V. Walsh informed the Petitioner that should anything change, include the lattice work, etc., the change will need to be reviewed. The motion was approved unanimously.

VI. **CONTINUED HEARING – 223 LONGHILL STREET**

- The landowner relating to 223 Longhill Street was unable to attend the evening's meeting. The Commission had tabled the hearing, but did not return to the item. With no action taken on the hearing, it will be heard at the Commission's next meeting – Thursday, November 20, 2025.

VII. **CONTINUED HEARING – 301 LONGHILL STREET**

MOTION TO APPROVE THE REPLACEMENT DOOR AT 301 LONGHILL STREET	
CHAIR ALFONSO NARDI	<i>YAY</i>
VICE CHAIR WALTER KROLL	<i>SECONDER – YAY</i>
JUDI CROWELL	<i>YAY</i>
VANA NESPOR	<i>MOTION – YAY</i>
VINCENT WALSH	<i>YAY</i>
MARISA ZORZI	<i>ABSENT</i>

- Joseph Bernard was before the Commission to discuss the proposed replacement door application.
- J. Bernard informed the Commission that he was looking to replace the front entry door. Prior to purchasing the building, the house was breached via the front door by the police leaving interior and exterior damage to the door. After researching front doors, J. Bernard opined that the proposed style was consistent with the era of the residence.
- Chair A. Nardi confirmed with J. Bernard that the subject door was the front door. Commissioner W. Kroll confirmed with J. Bernard that the proposed door was not thinner than what existed.

- J. Bernard informed the Commission that the paneling on the bottom of the door was the same; however, additional glass would be added; hopefully a mail slot would be added to the proposed door.
- Commissioner V. Walsh asked if J. Bernard was concerned about the additional light; J. Bernard responded that the hallway was dark and that they were looking to add light.
- Commissioner W. Kroll asked if the storm door would remain, as it may be easier to break in; the storm door adds additional security. J. Bernard responded that the storm door would probably remain.
- During public comment, Paul Jones from 79 Thompson Street opined that the replacement door would be good to the community and that the damaged caused to the door was the result of a misfortune.
- Commissioner V. Nespor made a motion to approve the application as presented. Commissioner W. Kroll seconded the motion. With no discussion on the motion, it was approved unanimously.

VIII. CONTINUED PUBLIC HEARING – 79 THOMPSON STREET

MOTION TO CONTINUE THE 79 THOMPSON STREET APPLICATION	
CHAIR ALFONSO NARDI	<i>YAY</i>
VICE CHAIR WALTER KROLL	<i>MOTION – YAY</i>
JUDI CROWELL	<i>YAY</i>
VANA NESPOR	<i>SECONDER – YAY</i>
VINCENT WALSH	<i>YAY</i>
MARISA ZORZI	<i>ABSENT</i>

- Paul Jones, landowner of 79 Thompson Street, was before the Commission to present his application relating to the installation of solar powered panels onto the detached garage.
- P. Jones informed the Commission that he was previously before the Commission to install solar powered panels onto the main building; however, since that application the cost of the project went up \$10,000. As a result, he determined to relocate and downsize the project to the detached garage. The application was submitted as a hardship; that he was looking to do the small project first and come back with the bigger project in the future.
- Chair A. Nardi asked if the project would contain eight panels and Commissioner W. Kroll asked if the garage was staying put. P. Jones responded that the garage will remain unchanged and that the project will only contain three panels – that the rendering was just to give an idea. He was looking to have a low profile; the panels will be on the side of the garage rather than the front; black and silver in color.
- P. Jones informed the Commission that he interviewed three different licensed electricians and will be looking to choose one shortly. The conduit will be placed behind the main house and painted the same color as the house.
- Commissioner W. Kroll informed P. Jones that the Commission is concerned what the project looks like, and expressed concerns about the location of the utility equipment and conduit. Since an electrician has not yet been selected, the location

of the utility equipment and conduit could potentially change; the Commission approves the specific location of the conduit and equipment.

- Chair A. Nardi advised that the hearing could be continued so the Petitioner could obtain that information. Commissioner W. Kroll advised that while the Commission could approve the project that evening, if anything changes, he would have to come back.
- During public comment, Harry Seymour from 68 Washington Road provided support for the application upon learning where the conduit and equipment will be located. Jose Claudio, from 100 Clayton Street, expressed support for the project and opined it was a great opportunity.
- Commissioner W. Kroll made a motion to continue the hearing to the November 20, 2025 meeting agenda. The motion was seconded by Commissioner V. Nespor. With no discussion on the motion, it was approved unanimously.

IX. CONTINUED PUBLIC HEARING – 353 MAPLE STREET

MOTION TO APPROVE THE EXTERIOR RENOVATIONS AT 353 MAPLE STREET	
CHAIR ALFONSO NARDI	<i>YAY</i>
VICE CHAIR WALTER KROLL	<i>SECONDER – YAY</i>
JUDI CROWELL	<i>YAY</i>
VANA NESPOR	<i>MOTION – YAY</i>
VINCENT WALSH	<i>YAY</i>
MARISA ZORZI	<i>ABSENT</i>

- Jeff McGeary, Jonathan Slater, and Rafal Toczko were before the Commission to present the application relating to exterior renovations to the building at 353 Maple Street.
- Jeff McGeary informed the Commission that the model of the program at 353 Maple Street has changed, thus invoking some upgrades, including accessibility requirements. In addition, windows and doors are to be replaced.
- Jonathan Slater advised that a ramp would also be installed, and due to the configuration of the property, visibility of the ramp is inevitable and hard to disguise. The windows are diamond grids, aluminum facing; with a financial challenge, restoring the 59 windows is challenging. Exhaust vents relating to the commercial kitchen on the roof will be required.
- Commissioner J. Crowell asked for clarification about what is being replaced; Jeff McGeary advised that all of the windows would be replaced. Commissioner V. Nespor asked if any of the windows were stained-glass; the Petitioners responded no. J. Slater advised that they looked at many different windows; that the proposed vinyl windows do provide diamond grids.
- R. Toczko provided an overview of the proposed ramp construction plan – that a concrete path will be installed to meet the ramp on the Maple Street side of the building. The ramp is intended to be a permanent fixture, black satin aluminum.
- Chair A. Nardi asked if the porch railing and post were to be removed; R. Toczko advised that the railing and post were wide enough apart to where they would not need to be removed and that a platform will be extended from the porch.

Commissioner V. Nespor inquired about the permanent-ness of the ramp; J. Slater advised that it would be permanent for as long as the program exists.

- Chair A. Nardi sought clarification about the diamond grid patterns; J. Slater advised that their team was making an effort to stay as consistent as possible and will have diamonds. Commissioner V. Nespor inquired as to whether the grids would be on the interior or exterior of the window; J. Slater responded that they are proposing exterior grids.
- No public comment from those in attendance was provided. Chair A. Nardi then read J. Boone's written public comment into the record.
- Commissioner W. Kroll asked what would happen with the original aluminum windows once replaced and asked if they could be stored; the Petitioners advised that they would be able to store them in a warehouse.
- Commissioner V. Nespor asked if the windows were in such bad shape that they could not be restored; the Petitioners responded in the affirmative. Commissioner V. Walsh opined that even if some of the windows were mismatched, if they could try to retain them as much as possible; the ramp is fine; and asked if replacing the windows was a requirement of the new program. The Petitioners responded that replacing the windows was not a requirement of the program.
- Commissioner V. Walsh recommended trying to keep the historic windows, if possible, as well as ensure that the grids are not just attached to the windows. J. Slater agreed to if the windows could be repurposed, they would try.
- Commissioner W. Kroll confirmed the model number of the window from the submitted application.
- Commissioner V. Nespor made a motion to accept the application with the stipulation that the windows be kept if possible and repurposed to the most visible side of the building if possible, noting that the diamond grids are to be on the exterior of the window.

X. **CONTINUED PUBLIC HEARING – 47 WESTMINSTER STREET**

MOTION TO CONTINUE THE 47 WESTMINSTER STREET APPLICATION	
CHAIR ALFONSO NARDI	<i>YAY</i>
VICE CHAIR WALTER KROLL	<i>SECONDER – YAY</i>
JUDI CROWELL	<i>ABSENT</i>
VANA NESPOR	<i>YAY</i>
VINCENT WALSH	<i>MOTION – YAY</i>
MARISA ZORZI	<i>ABSENT</i>

- J. Lopez, Ovidia Lopez, and Rolando Meono were before the Commission to present the application relating to the construction of a rear porch 47 Westminster Street. Jose Claudio, from 100 Clayton Street, who was in attendance for another agenda item, helped translate for the Petitioners.
- Chair A. Nardi provided an overview of the application. R. Meono informed the Commission that after purchasing the building, they noticed an opening at the rear of the building and thought they could place a deck at what appeared to be a rear entry way at some point.

- Commissioner V. Walsh asked if the Petitioners received a permit; the Petitioners responded that they did not receive a permit. Commissioner V. Walsh opined that he would be unable to vote in favor of the application as a hardship. The Petitioners advised that the hardship was to demolish the porch.
- Commissioners V. Walsh and W. Kroll inquired as to whether the structure would satisfy the building code, and opined that they would like acknowledgement from the Building Department prior to making a decision on the application. The Petitioners advised that the Building Department informed them that approval from the Commission was required prior to the Building Permit being approved; if the Historical Commission says it can stay, then the Building Department can issue the permit.
- Commissioner V. Walsh reiterated that he could not vote on the application. Chair A. Nardi opined that the railings were likely to low. Commissioner V. Walsh opined that the Commission should not get into the details and asked if the structure was a legal structure.
- Staff Member A. Strniste advised that he would ask the Building Department the next day about the structure's ability to obtain approval. Attorney R. Shewchuk advised that the Commission should not vote on the application until they heard from the Building Department.
- No public comment from those in attendance was provided. Chair A. Nardi then read J. Boone's written public comment into the record.
- Chair A. Nardi recommended postponing the hearing.
- Commissioner V. Walsh made a motion to continue the hearing to the November 20, 2025 meeting agenda. The motion was seconded by Commissioner W. Kroll. With no other discussion, the motion was approved unanimously.

XI. NEW PUBLIC HEARING – 82 PINEYWOODS AVENUE

MOTION TO APPROVE THE WINDOW PROJECT AT 82 PINEYWOODS AVENUE	
CHAIR ALFONSO NARDI	<i>YAY</i>
VICE CHAIR WALTER KROLL	<i>MOTION – YAY</i>
JUDI CROWELL	<i>ABSENT</i>
VANA NESPOR	<i>SECONDER – YAY</i>
VINCENT WALSH	<i>YAY</i>
MARISA ZORZI	<i>ABSENT</i>

- Melissa Mirhej, Alan Vier, and Tim Dros were before the Commission to present the application relating to replacing two windows, siding, and shingles pertaining to the building at 82 Pineywoods Avenue.
- T. Dros advised that they were proposing to replace two windows due to extensive water damage. Since they were planning to replace the entirety of the windows, the rotted cedar shakes and shingles would be rebuilt back to its original design and replicated. Tim Dros advised that they were passionate about historic properties and will follow what was existing – putting everything back together as it originally was.

- When opened to public comment, Harry Seymour from 82 Washington Road asked what the replacement siding would be; T. Dros advised that it would be cedar.
- Commissioner W. Kroll made a motion to approve the application as presented. The motion was seconded by Commissioner V. Nespor. No discussion was had and the motion was approved unanimously.

XII. NEW PUBLIC HEARING – 262 BRIDGE STREET

MOTION TO FIND APPROVAL NOT NEEDED FOR 262 BRIDGE STREET	
CHAIR ALFONSO NARDI	<i>YAY</i>
VICE CHAIR WALTER KROLL	<i>MOTION – YAY</i>
JUDI CROWELL	<i>ABSENT</i>
VANA NESPOR	<i>SECONDER – YAY</i>
VINCENT WALSH	<i>YAY</i>
MARISA ZORZI	<i>ABSENT</i>

- Tracy Janik from 2 Belmont Avenue, South Hadley was before the Commission to present the sign application relating to 262 Bridge Street.
- Staff Member A. Strniste informed the Commission that when he was reviewing the application, he discovered that the City's GIS resource selected the property at 266 Bridge Street when searching for "262 Bridge Street." 266 Bridge Street is located in the Trinity Block Local Historic District; however, the subject property – 262 Bridge Street – is located directly adjacent to the Trinity Block Local Historic District (outside of the District). Therefore, the property is not subject to Historical Commission Review.
- Commissioner W. Kroll made a motion to find that the submitted application does not require approval from the Historical Commission since the property is not located in a Local Historic District, nor on the National Register of Historic Places. The motion was seconded by Commissioner V. Nespor. With no discussion on the motion, it was approved unanimously.

XIII. ENVIRONMENTAL REVIEW – 1402 MAIN STREET

MOTION TO APPROVE THE SIGN INSTALLED AT 1402 MAIN STREET	
CHAIR ALFONSO NARDI	<i>YAY</i>
VICE CHAIR WALTER KROLL	<i>SECONDER – YAY</i>
JUDI CROWELL	<i>ABSENT</i>
VANA NESPOR	<i>MOTION – YAY</i>
VINCENT WALSH	<i>YAY</i>
MARISA ZORZI	<i>ABSENT</i>

- Sarah and Dwight Bell, from 243 Wilbraham Road, were before the Commission to discuss the already approved installation of a sign at 1402 Main Street.
- D. Bell informed the Commission that their business used to be at 5 Taylor Street; the sign subject to the application was silver with black lettering, and was moved from Taylor Street to Main Street. Commissioner V. Walsh confirmed that the sign was the same sign from 5 Taylor Street.

- D. Bell informed the Commission that they were thinking of painting the sign, as well as illuminating the sign.
- Staff Member A. Strniste informed the Commission that the standard they are reviewing the application was whether it caused an adverse impact to the building.
- D. Bell asked the Commission if he would be required to come back before the Commission for façade improvements and installing an awning; the Commission responded in the affirmative. D. Bell then asked for recommendations; however, Chair. A Nardi informed him that the Commission cannot provide recommendations. Commissioner W. Kroll informed D. Bell to contact Staff Member A. Strniste with questions or examples with what has been approved in the past.
- D. Bell inquired as to who should address deteriorating brick issues; Commissioner W. Kroll responded that since the deteriorating bricks related to the building, that the responsibility was on the landowner. Commissioner V. Walsh reminded the Commission that what can be discussed should really only relate to the application itself – the sign. He then opined that he could not approve the sign as is if it were to be permanent because he felt as if it does negatively impact the aesthetics of the building.
- D. Bell asked if painting the sign black would help. Commissioner V. Walsh opined that the way the sign was installed did not really fit with the building, but painting would help. He then informed the Petitioners that he could vote to approve if the sign was considered temporary. D. Bell then advised that he could place black aluminum on the sides of the sign.
- Commissioner V. Nespor made a motion to accept the sign as temporary with the understanding that the Petitioners would be returning to the Commission in the future with other façade improvements. The approval is effective for up to one year. The motion was seconded by Commissioner Kroll. Commissioner V. Walsh clarified that the Petitioners were going to be returning with façade details relating to a submitted grant. The motion was approved unanimously.

XIV. *OTHER MATTERS PROPERLY BEFORE THE COMMISSION – 207 PINE STREET PROJECT STATUS OVERVIEW*

- Jose Claudio, a representative of the landowner for 207 Pine Street informed the Commission about the status of the project at 207 Pine Street, which was approved by the Commission in 2022. Specifically, J. Claudio went through the various pictures submitted providing an in-depth overview. He also informed the Commission that the landowner is cognizant in trying to revitalize the area having bought neighboring property and making the building at 207 Pine Street historically friendly.
- Staff Member A. Strniste provided the Commission an overview as to why the landowner was asked to attend the Commission’s meeting. During a site visit along Pine Street, Commissioners opined work was being performed that was not necessarily approved.
- Chair A. Nardi confirmed with J. Claudio that the first-floor porch was the same, that it was lifted up. Staff Member A. Strniste reviewed the certificates of approval and compared them to what was completed; thus, the second-floor door, porch railings, and steps all need approval from the Historical Commission. The porch requires a Certificate of Non-Applicability since work has been conducted on the porch that was not covered in the certificates.

- Commissioner W. Kroll informed J. Claudio that the reason the Commission likes to follow-up with Petitioners after long stints of time is because sometimes what was approved was forgotten.
- Chair A. Nardi confirmed with J. Claudio that the landowner would be returning, especially with regards to the second-floor door.
- J. Claudio asked if the Stop-Work Order could be lifted. Staff Member A. Strniste advised the Building Department must have issued a Stop-Work Order and that he would speak to the Building Department the next day and let them know that the Historical Commission is okay lifting the order. J. Claudio advised that they would be back before the Commissioner in December.

XV. OTHER MATTERS PROPERLY BEFORE THE COMMISSION – ADMINISTRATIVE UPDATE

- Staff Member A. Strniste provided the Commission an overview of various updates:
 - The project manager for the project at 32 Hampden Street inquired as to what color they should paint the metal atop the parapet, which is being replaced, and whether it needs approval from the Commission. The Commission advised that they should try to match the color to what currently exists, and should it change, they should come before the Commission.
 - Staff Member A. Strniste issued the following Certificates of Non-Applicability since the last meeting:
 - **301 Longhill Street** → Repaint Front Façade.
 - **1104 Worthington Street** → Fixing/Repairing Black Metal Fence Hit by Car.
 - **238 Sumner Avenue** → Exterior Repairs.
 - **60 Ingersoll Grove** → Replace Asphalt Shingle Roof with Asphalt Shingle Roof.
 - **47 Garfield Street** → Installation of Black Metal Railing.
 - Staff Member A. Strniste issued the following violations since the last meeting:
 - **21 Mountainview Street** → Did not resolve replacement windows that were part of the original 2023 application.
 - **158 Sherman Street** → Replacement of Side and Front Porch Railings.
 - **164 Sherman Street** → Installation of a White Vinyl Fence.
 - **104 Bowdoin Street** → Installation of a Wooden Fence.
 - **19 Normandy Street** → Foundation Painted; Replaced Front Door.
 - **39 Bellevue Avenue** → Installation of a Pallet Fence.
 - **275 Pine Street** → Replacement of Rear Porch Railings.
 - **174 Pinewoods Avenue** → Installation of a Compressor Unit.
 - Staff Member A. Strniste sent inquiries about the following possible projects:
 - **207 Pine Street** → Deviations from Issued Certificate.
 - **34 Westminster Street** → Possible Future Window Replacement.

XVI. OTHER MATTERS PROPERLY BEFORE THE COMMISSION – NOVEMBER 20, 2025 QUORUM CALL

- Chair A. Nardi informed the Commission that he is tentative for the November 20, 2025 meeting. Commissioners W. Kroll, V. Walsh, and V. Nespor all responded that they will be in attendance.
 - Staff Member A. Strniste informed the Commission that K. Coffee has been forwarded as a nominee to the Commission to the City Council with a subcommittee meeting expected to be scheduled soon.
-

XVII. *OTHER BUSINESS – PUBLIC SPEAK-OUT SESSION*

- No attending public provided comment.
- Chair A. Nardi moved to adjourn. The motion was approved unanimously. The Commission adjourned at 7:43 PM.

DRAFT



INDIAN ORCHARD FIRE STATION EXTERIOR RENOVATIONS



CAOLO & BIENIEK ASSOCIATES, INC.

ARCHITECTURE · PLANNING · INTERIOR DESIGN

521 East Street
Chicopee, Massachusetts

1.413.594.2800
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INDIAN ORCHARD FIRE STATION EXTERIOR RENOVATIONS

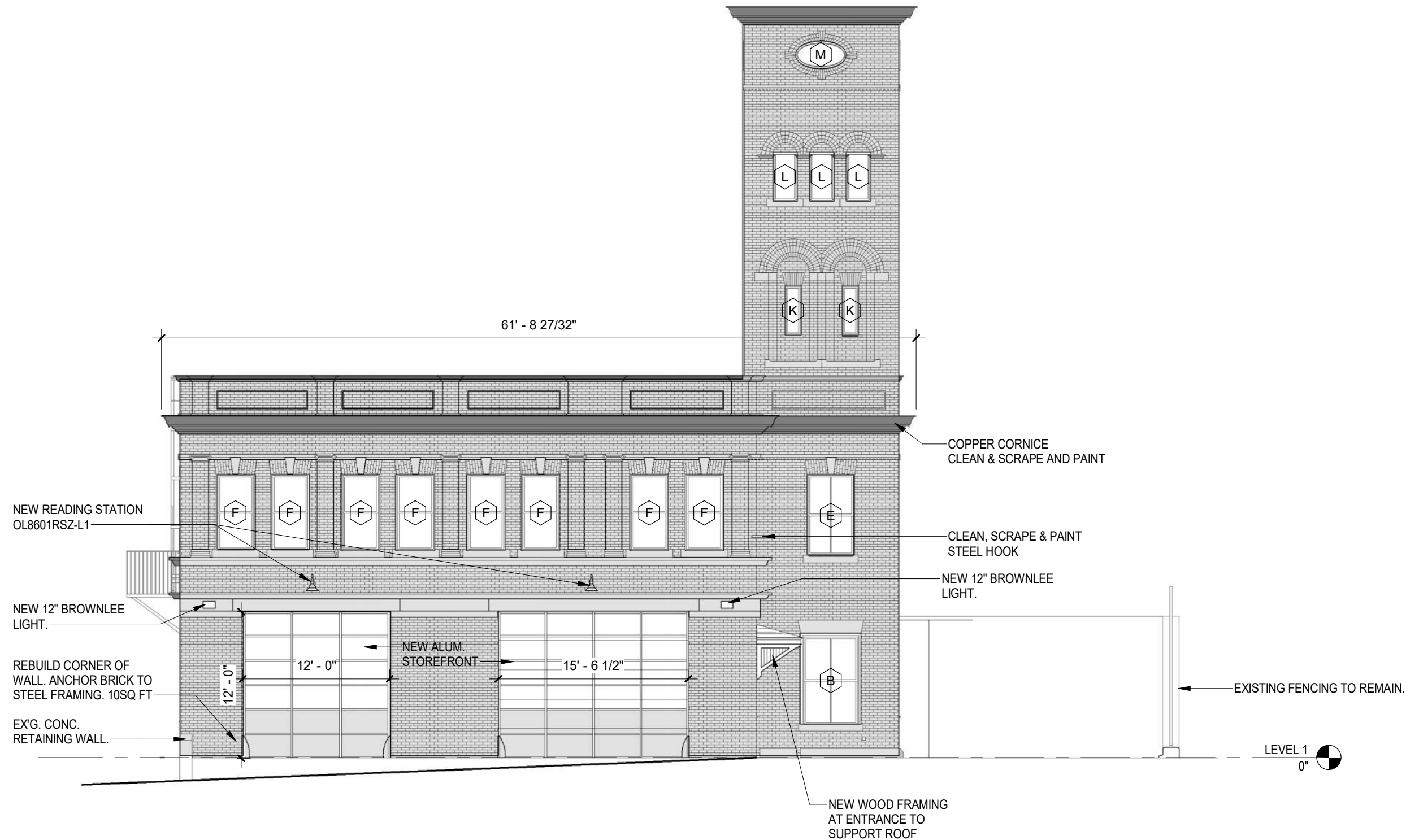


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1

SOUTH ELEVATION-PRESENTATION 2

1/8" = 1'-0"

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TRIFAB® VERSAGLAZE® 450, 451 & 451T (THERMAL) FRAMING SYSTEMS & TRIFAB® 451UT (ULTRA THERMAL) FRAMING SYSTEM

Trifab® VersaGlaze® is built on the proven and successful Trifab® platform – with all the versatility its name implies. There are enough framing system choices, fabrication methods, design options and performance levels to please the most discerning building owner, architect and installer. The 4.5" depth Trifab® VersaGlaze® Framing System family is available with non-thermal, thermal and ultra-thermal performance levels. The ultra-thermal Trifab® 451UT Framing System, is designed for the most demanding thermal performance and employs actual Isolock® thermal break.

AESTHETICS

Trifab® VersaGlaze® Framing Systems offer designers a choice of front-, center-, back- or multi-plane glass applications. Structural silicone glazing (SSG) and weatherseal glazing options further expand designers' choice, allowing for a greater range of possibilities for specific project requirements and architectural styles. All systems have a 4-1/2" frame depth; Trifab® VersaGlaze® 450 has 1-3/4" sightlines, while Trifab® VersaGlaze® 451/451T and Trifab® 451UT have 2" sightlines.

With seamless incorporation of Kawneer entrances or windows, including GLASSvent® visually frameless ventilators, Trifab® framing can be used on almost any project. These framing systems can also be packaged with Kawneer curtain walls and overhead glazing, thereby providing a full range of proven, and tested, quality products for the owner, architect and installer from a single-source supplier.

ECONOMY

Trifab® VersaGlaze® 450/451/451T/451UT Framing Systems offer a variety of fabrication choices to suit your project:

- **Screw Spline** – for economical continuous runs utilizing two-piece vertical members that provide the option to pre-assemble units for efficient handling and installation. (available for all Trifab systems)
- **Shear Block** – for punched openings or continuous runs using tubular verticals with shear blocks to connect horizontal members. (available for 450/451/451T systems)
- **Stick** – for fast, easy field fabrication. Continuous sill and head receptors are installed with horizontals connected to tubular verticals with shear blocks. (available for 450/451/451T systems)
- **Pre-glazed** – The combination of screw spline construction with pre-glazing in the shop accelerates installation and reduces field labor time while minimizing disruption to the surrounding area or existing tenants. Making it an exceptional choice for new or retrofit applications, particularly in urban areas or where space is limited. (available for 451/451T/451UT framing)



Photography: © Ben Gancsos

All systems can be flush glazed from either the inside or outside. The weatherseal option provides an alternative to SSG vertical mullions for Trifab® VersaGlaze® 450/451/451T. This ABS/ASA rigid polymer extrusion allows complete inside glazing and creates a flush glass appearance on the building exterior without the added labor of scaffolding or swing stages. Additionally, high-performance flashing options are engineered to eliminate perimeter sill fasteners and associated blind seals.

FOR THE FINISHING TOUCH

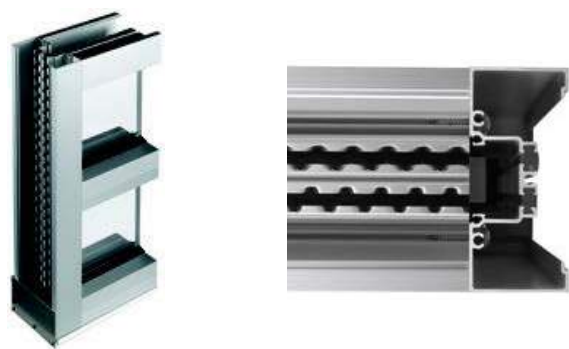
Architectural Class I anodized aluminum and painted finishes in fluoropolymer (AAMA 2605) and solvent-free powder coatings (AAMA 2604) offer a variety of color choices.

PERFORMANCE

Kawneer’s Isolock® thermal break technology creates a composite section, prevents dry shrinkage and is available on Trifab® VersaGlaze® 451T. For even greater thermal performance, a dual Isolock® thermal break is used on Trifab® 451UT.

U-factor, CRF values and STC ratings for Trifab® framing systems vary depending upon the glass plane application. Project-specific U-factors can be determined for each individual project.

(See the Kawneer Architectural Manual or Kawneer.com for additional information.)

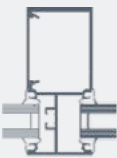
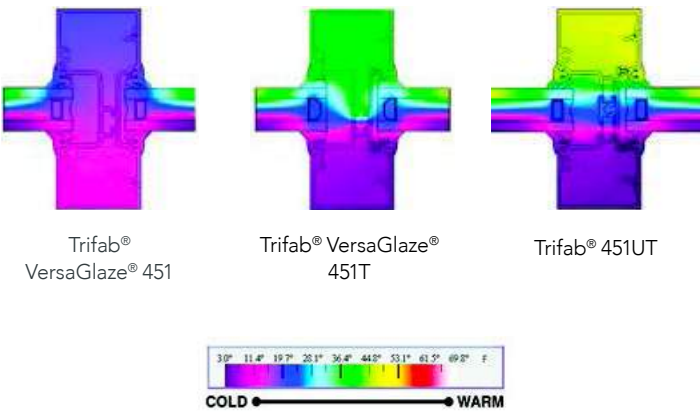


Trifab® 451UT uses a dual Isolock® thermal break (right) and features a new high performance sill design, which incorporates a screw-applied end dam (left), ensuring positive engagement and tight joints between the sill flashing and end dam.

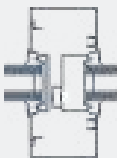
PERFORMANCE TEST STANDARDS

Air Infiltration	ASTM E283
Water	AAMA 501, ASTM E331
Structural	ASTM E330
Thermal	AAMA 1503
Thermal Break	AAMA 505, AAMA TIR-A8
Acoustical	AAMA 1801, ASTM E1425

Thermal simulations showing temperature variations from exterior/cold side to interior/warm side.



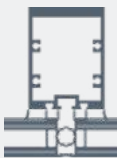
Front



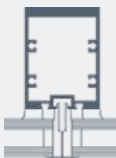
Center



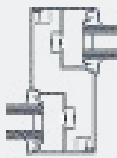
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SSG



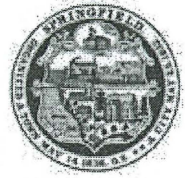
Weatherseal



Multi-Plane



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS:

102 Thompson St. Springfield, MA 01109

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST

☐

APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**

☐

PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.

☐

RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.

☐

PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*

☐

LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY

LOCAL HISTORIC DISTRICT:

McKnight

DECISION:

DATE RECEIVED:

June 30, 2025

DECISION DATE:

HEARING DATE:

July 17, 2025

DATE DISCUSSED (NO HEARING):

DATE NOTICE POSTED:

July 3, 2025

WAIVED BY COMMISSION:

DATE NOTICE MAILED:

July 3, 2025

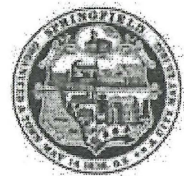
WAIVED BY ABUTTERS:

Hello, how are you? I would like you to postpone the appointment for 45 days. I will go to California because I have circumstances. I will inform you of the appointment. Thank you for your understanding.

م 4:35



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION INFORMATION

PROPERTY ADDRESS: 142 Thompson Street

1. **WHAT DOES HISTORIC STATUS MEAN?**

Properties within a Local Historic District are architecturally protected by the Springfield Historical Commission. Any exterior architectural feature that is visible from the public street or park is protected. Therefore, prior to any exterior change, approval by the Springfield Historical Commission must be obtained.

2. **WHAT IS THE PROCESS FOR OBTAINING APPROVAL BY THE SPRINGFIELD HISTORICAL COMMISSION?**

- To determine if the Springfield Historical Commission must review an application, contact the City's Office of Planning & Economic Development at (413) 787-6020 and ask for the Staff member who oversees the Historical Commission. The Staff Member will determine if review is required.
- If the proposed project is subject to review, an "Application for a Certificate" must be submitted prior to the commencement of any project.
- Fill out the attached application and submit it to the City's Office of Planning & Economic Development along with any supporting information (as requested in this application).
- Upon receipt of a complete application (the application itself and the necessary supporting documents), Staff will schedule a public hearing with the Springfield Historical Commission to discuss the proposed project. Notice of the public hearing will be sent by mail to the abutting neighbors at least fourteen (14) days in advance of the hearing. For most applications, the Commission has sixty (60) days from receipt of the application to render a decision. Failure to issue a decision within the requisite time period will result in the application being automatically granted.

3. **WHAT INFORMATION IS REQUIRED TO ENSURE THE APPLICATION IS COMPLETE?**

- The address of the property subject to the application shall be clearly provided;
- The name of the property owner;
- The address of the property owner (if different);
- The type of application being requested (see Page 1)
- A written description of the project and the relevant section of this application completed.

Note: Incomplete applications will not be processed by the Office of Planning & Economic Development.

4. **WHAT OTHER INFORMATION IS REQUIRED FOR AN APPLICATION?**

- Drawings for alterations and/or additions to existing structures, or for new constructions. Drawings shall be plans or elevations drawn to scale with sufficient details to show the architectural design of buildings, including proposed materials, textures and colors. Sample of materials or colors, and the plot plan or site layout, indicating all improvements affecting appearances such as walls, walks, terraces, plantings, accessory buildings, signs, lights and other elements, shall also be included.
- Photographs required with application to demolish existing structures. Applicant shall submit photographs showing all sides of the property and contiguous properties on either side and across the street.
- Photographs required with applications for new construction. Applicant shall submit photographs of adjoining properties on either side and across the street.
- Photographs required with application for repair, alterations, and/or additions to existing structures. Applicant shall submit photographs of all sides of the structure to be affected by proposed action.
- Sample of materials and designs (e.g. brochures, specification sheets, physical samples, etc.)
- If applying under for a Certificate of Hardship, the applicant shall submit sufficient materials to support the hardship claim. Photographs, financial records, and health records are some suggested supporting materials.
- Requests for demolition under a Certificate of Hardship must be accompanied by a contract line item estimate for demolition and a contractor line item estimate for rehabilitation.



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS:

142 Thompson Street

APPLICATION TYPE (Select Application Type)

☐

CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.

☐

CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.

☐

CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).

☐

ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.

☐

PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.

☐

PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.

☐

MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).

☐

SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00).



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 102 Thompson St, Springfield, MA 01109		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: Zaitoun MHD Munir		
OWNER ADDRESS: ☐ Check box if same as property address 30 Massachusetts St, Springfield, MA 01107		
OWNER PHONE NUMBER: 413-316-4793		REPRESENTATIVE/CONTRACTOR NAME:
OWNER EMAIL ADDRESS:		REPRESENTATIVE/CONTRACTOR PHONE NUMBER:
PROPERTY CODE:		REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): See Attached ARS-7/2/2023		PROPOSED MODIFICATIONS (Please check all that apply) ☐ Windows (see Page 3) ☐ Doors (see Page 4) ☐ Siding (see Page 5) ☐ Roofing (see Page 6) ☐ Solar (see Page 6) ☐ Signs (see Page 7) ☐ Heat Pumps (see page 7) ☐ Paint (see Page 8) ☒ Renovations (e.g. Porches) (see Page 8) ☐ New Construction (all of the above) ☒ Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

☐ Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

PROPERTY OWNER'S SIGNATURE

6/28/2023
DATE

OTHER PROJECTS

EXISTING CONDITIONS/DESCRIPTION

The Old Porch Balustrades was Broken that cannot protect anyone who is trying to Touch Them, also cannot be safe if There is a windstorm.

The Old Deck Board was Broken^{totally} as well.
Please Note: the First Floor Deck^{Balustrades} and The Second Floor Balustrades, Deck been fixed.

PROPOSED CONDITIONS/DESCRIPTION

The New Porch has a New Balustrades and Deck Board. It has Brown Deck Board and Brown Balustrades as well in the First Floor and the Second Floor. Both Porches Balustrades and Deck Boards Been tighten using strong Bolts attach to the Deck posts. First and Second Floor Porches is in Really New condition and safe to be ~~on~~^{on}. Materials Are the same old Porches Materials

**102 THOMPSON ST
SPRINGFIELD, MA 01109
#1 PORCH FIRST FLOOR
#2 PORCH SECOND FLOOR**

**I FOUND THE BALUSTERS AND THE DECK BOARD BROKEN ON THE
FIRST FLOOR PORCH AND IN THE SECOND FLOOR LITTLE PORCH, ALSO NOT SAFE
TO STAND ON BOTH BOARDS THAT CAN CAUSE SOMEONE INJURES SO THAT LEAD
ME TO REPLACE THE DECK BOARDS TO #2 PRIME PRESSURE-TREATED GROUND
CONTACT SOUTHERN PINE LUMBER WAS BOUGHT FROM HOME DEPOT AND
REPLACE THE BALUSTERS TO PRESSURE-TREATED SOUTHERN YELLOW PINE WOOD
SQUARE END BALUSTERS WAS BOUGHT FROM HOME DEPOT AS WELL.**

Jim Boone
97 Florida St
McKnight

July 14, 2025

Historic Commission

Re: 102 Thompson St

Dear Commissioners

This house has undergone significant changes by the owner of record who is Ziyad Jarod. He purchased property 11/30/23. He was sent a letter telling him it was in a Historic District. (attached) The realtor who had listed the property was told of the Historic District rules in letter of 7/21/23 (attached)

Google Street View of June 2024 shows that changes had not been made. Assessors records say property was a "transfer of convenience" to Zaitoun Munir on 3/19/24. Registry of deeds does not record this transfer so owner is legally Ziyad Jarod. Changes were made after this "transfer"

The change of the front porch railings on first and second floor are totally inappropriate to the house, The change to the door on the second floor is improper and neither were done with permission of the Commission. The decorative shingles on the second floor porch were covered with asphalt shingles, again not approved. Asphalt should be removed and shingles restored.

These four changes must be restored back to the way they were when purchased and are original to the house. Porch railings can be same height as originals as it is in Historic District. Leaving these changes as they are is a detriment to the District and counter to all of its rules.

These changes were reported to the Commission October 19, 2024.

Thank you for your attention to this matter.

Jim Boone

July 21, 2023

Becky Thompson

Caldwell Banker

136 Dwight Rd Longmeadow, Ma 01106

Dear Becky

Re: Listing at 102 Thompson St Springfield

Congratulations on your listing in the McKnight Historic District in Springfield Ma. This is a wonderful neighborhood where everyone takes great pride in their properties. I think you will find a lot of interest in the property.

As the house is in a Local Historic District, it is subject to the rules set forth by the City and administered by the Springfield Historical Commission. This means any work done to the exterior, including windows and doors porches, must have the approval of the Historical Commission.

As this house is priced in a way that will attract Flippers, it is especially important that they understand rules of the Hisotric District.

As this is a benefit to the property it is also a restriction and thus must be disclosed to all potential buyers.

In full disclose of property restrictions, your listing should disclose this so that all potential buyers are informed. By having this in your listing, all Realtors showing the property are duly informed also.

The rules of the McKnight Historic District can be found on the City of Springfield's Planning Department website. [Microsoft Word - MCKNIGHT-rev_Dec_07.doc \(springfield-ma.gov\)](#) Map of the Local Historic District [ArcView Print Job \(springfield-ma.gov\)](#)

Thank you for your work in promoting this wonderful neighborhood.

Your listing was built in 1885 in the Queen Anne/Stick Style and is listed on the National Register of Historic Places

Jim Boone

97 Florida St

McKnight

jimboone@hotmail.com

Dec 1, 2023
Ziyad Issa Jarad
102 Thompson St
Springfield, Ma 01109

Welcome to the McKnight Historic District and our wonderful neighborhood. We hope you will enjoy it as much as we have over the past 47 years.

Your Single Family home was built in 1885 and its first owner was named Andrew Titus. It is Queen Anne/Stick Style architecture. You are located in the McKnight Historic District. The Realtor listing this property had been notified as you can see by the attached letter.

A reminder that all work to the house requires Building Permits.

Any change to the exterior of the house, including siding, windows and doors must be approved by the Historical Commission.

You can see an picture of your home in 1939 at springfieldpreservation.org Resources, WPA and go to Thompson Street

You have wonderful neighbors all around you, hope you enjoy McKnight.

Welcome

Jim and Merry Boone
97 Florida St.





www.zillow.com



تم



الإنجليزية

العربية



تم

...

الإنجليزية

العربية



 البحث في محتوى هذه الشاشة









70 Tapley Street
Springfield
Massachusetts
01104

STOP WORK ORDER

5/20/2025

Zaitoun MHD Munir
30 Massasoit Street
Springfield, MA 01107

Dear Zaitoun MHD Munir:

The Springfield Historical Commission has recently become aware of the, and has reason to believe that there has been an, **unauthorized replacement of porch railings and a second-floor door** that have been installed on your property at **102 Thompson Street**. Your property is located within the McKnight Local Historic District, and any proposed work to the exterior of the building is not allowed without the approval of the Commission. Once the Commission has granted approval, any exterior modifications and renovations can be completed after getting any other necessary building permits.

Enclosed is a copy of the McKnight Local Historic District guidelines and an application and application instruction sheet. Please fill out the application completely, attaching the appropriate information (pictures, sample materials, site map, etc.) and return all materials to the address below. The next available Springfield Historical Commission meeting is **Thursday, June 26, 2025 at 5:30pm** and the application needs to be submitted two weeks in advance of the meeting (**by Wednesday, June 11, 2025 at 4:30pm**). If you cannot make this meeting, please contact me for future meeting dates. However, your work cannot continue until you receive the approval from the Commission.

If you do not comply, the Commission will be forced to take further action. In addition, the Building Department has been notified of the work that is occurring to determine if permitting is required on their end.

If you have any questions, please feel free to contact me at (413) 787-6525.

Sincerely,

Andrew Strniste
Director of Community Planning

Return Address:
Springfield Historical Commission
70 Tapley Street
Springfield, MA 01104

cc: file, Springfield Law Department, Springfield Building Department





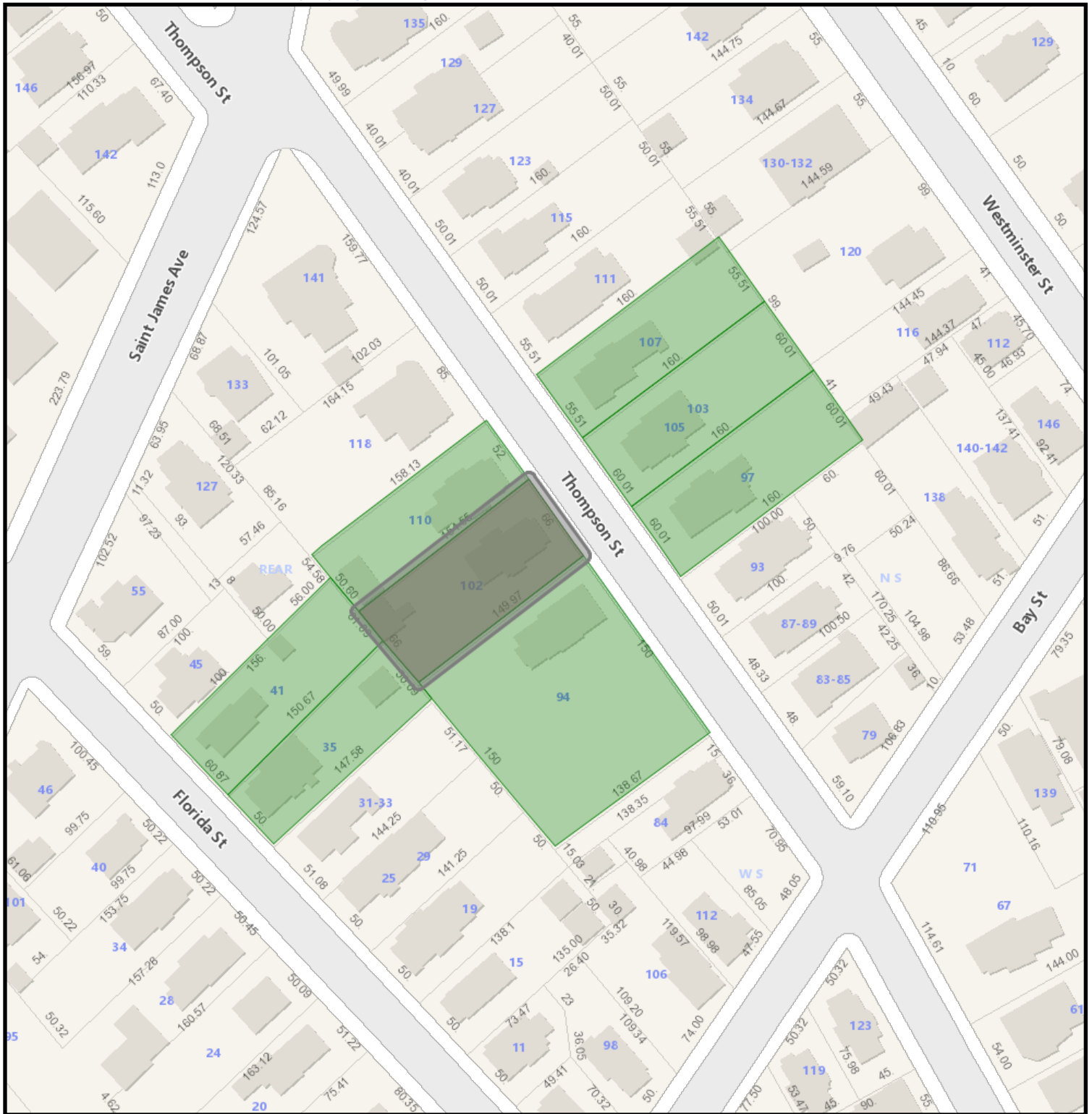
04/09/2025 12:26



04/09/2025 12:27



04/09/2025 12:27



102 Thompson Street GIS

7/2/2025 11:35:45 AM

Scale: 1"=100'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

115250062
ARROYO SERGIO
103 THOMPSON ST
SPRINGFIELD, MA 01109

115250020
BENERAKIS MELISSA L
94 THOMPSON ST
SPRINGFIELD, MA 01109

115250023
CRAWFORD PARKINSON
7407 SUNSET BEND LANE
RICHMOND, TX 77407

052200078
FIGUEROA SARIANN
41 FLORIDA ST
SPRINGFIELD, MA 01109

115250063
HARVEY CAROL J
97 THOMPSON ST
SPRINGFIELD, MA 01109

052200079
MCMULLEN KEISHA J & INDIA
35 FLORIDA ST
SPRINGFIELD, MA 01109

115250061
RBT ENTERPRISE LLC
268 COLD SPRING AVE STE B
WEST SPRINGFIELD, MA 01089

115250022
ZAITOUN MHD MUNIR
30 MASSASOIT ST
SPRINGFIELD, MA 01107



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 47 Westminister Street

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST

☐

APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**

☐

PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.

☐

RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.

☐

PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*

☐

LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <u>McKnight</u>	DECISION:
DATE RECEIVED: <u>September 25, 2025</u>	DECISION DATE:
HEARING DATE: <u>October 16, 2025</u>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <u>October 2, 2025</u>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <u>October 2, 2025</u>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 47 Westminister Street

APPLICATION TYPE (Select Application Type)

☐

CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.

☒

CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.

☐

CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).

☐

ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.

☐

PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.

☐

PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.

☐

MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).

☐

SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00).



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: → 47 Westminister Street		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☒
PROPERTY OWNER: → Ovidia Lopez		
OWNER ADDRESS: ☒ Check box if same as property address		
OWNER PHONE NUMBER:	REPRESENTATIVE/CONTRACTOR NAME:	
OWNER EMAIL ADDRESS:	REPRESENTATIVE/CONTRACTOR PHONE NUMBER:	
PROPERTY CODE: 12201-0066	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Rear porch was built. Now there is a second floor stair way already built. There is some visibility from public view. This stair/porch was built over existing small porch. Build with pressure treated wood.		PROPOSED MODIFICATIONS (Please check all that apply) ☐ Windows (see Page 3) ☐ Doors (see Page 4) ☐ Siding (see Page 5) ☐ Roofing (see Page 6) ☐ Solar (see Page 6) ☐ Signs (see Page 7) ☐ Heat Pumps (see page 7) ☐ Paint (see Page 8) ☐ Renovations (e.g. Porches) (see Page 8) ☐ New Construction (all of the above) ☐ Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED): We are not able to demo and rebuild with historic features. I work as a cook for about 20-25 hour per week. I was not aware of any historical guidelines before buying this house.		

☐ Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

Ovidia Lopez

PROPERTY OWNER'S SIGNATURE

9-23-25

DATE

Jim Boone
97 Florida St
McKnight

October 7, 2025

Springfield Historic Commission

Re: 47 Westminster St Rear Deck

Dear Commissioners

There has been a large back stair way going to the second floor of this Single Family Home in the Historic District. This was done without review of the Commission and I assume without a Building Permit.

Owner was notified about District rules when they purchased house. (attached)

This type of stairway would suggest a second floor apartment access.

This stairway is very visible from the street and not in keeping with any guideline in the District. Materials and design not appropriate. Change is needed.

Thank you

Jim Boone

March 10, 2024

Stephen Byrne

First Place Realty

Re: Listing at 47 Westminster St McKnight Historic District.

Congratulations on your listing in the McKnight Historic District in Springfield Ma. This is a wonderful neighborhood where everyone takes great pride in their properties. I think you will find a lot of interest in the property.

As the house is in a Local Historic District, it is subject to the rules set forth by the City and administered by the Springfield Historical Commission. This means any work done to the exterior, including windows and doors, must have the approval of the Historical Commission.

I have enclosed pictures of the house in 1939 and 1975. You can see what a beautiful house it was. I imagine much of the porch detail is underneath that awful enclosed porch. Your buyers would enhance the value of the house by restoring the front porch. The rest of your street is very well restored.

As this is a benefit to the property it is also a restriction and thus must be disclosed to all potential buyers.

In full disclosure of property restrictions, your listing should disclose this so that all potential buyers are informed. By having this in your listing, all Realtors showing the property are duly informed also.

The rules of the McKnight Historic District can be found on the City Of Springfield's Planning Department website. [Microsoft Word - MCKNIGHT-rev Dec 07.doc \(springfield-ma.gov\)](#) Map of the Local Historic District [ArcView Print Job \(springfield-ma.gov\)](#)

[The house was built in 1876 and the first owner was W S Buxton, built in the Gothic Revival Style. This street was one of the first built by the McKnight Brothers.](#)

Thank you for your work in promoting this wonderful neighborhood.

Jim Boone

97 Florida St

McKnight

jimboone@hotmail.com

Ovida Catalina Lopez Marcarlo
47 Westminster St
Springfield, Ma 01109

Welcome to the McKnight Historic District and our wonderful neighborhood. We hope you will enjoy it as much as we have over the past 47 years.

Visit springfieldpreservation.org This website also has a list of Contractors that have been used by Preservation Trust members as well as lots of local history and other information. On this website you can see a picture of your home in 1939, go to Resources and WPA photos and Westminster St

Your home was built in 1876 in the Gothic Revival style. The first owner was W S Buxton. This was one of the first houses built by the McKnight Brothers who developed the whole neighborhood.

Your wonderful house is located in the McKnight Historic District and all work to the house visible from the street must be approved by the Springfield Historical Commission. I have included in this packet those guidelines.

You have wonderful neighbors all around you, hope you enjoy McKnight.

Any questions, please feel free to email me.

Welcome

Jim and Merry Boone
97 Florida St.
jimboone@hotmail.com



70 Tapley Street
Springfield
Massachusetts
01104

STOP WORK ORDER

5/20/2025

Ovidia Catalina Lopez-Macario
47 Westminster Street
Springfield, MA 01109

Dear Ovidia Catalina Lopez-Macario:

The Springfield Historical Commission has recently become aware of the **unauthorized construction of a rear stairway** onto the rear of the building on your property at **47 Westminster Street**. Your property is located within the McKnight Local Historic District, and any proposed work relating to the exterior of the building is not allowed without the approval of the Commission. Once the Commission has granted approval, any exterior modifications and renovations can be completed after getting any other necessary building permits.

Enclosed is a copy of the McKnight Local Historic District guidelines and an application. Please fill out the application completely, attaching the appropriate information (pictures, sample materials, site map, etc.) and return all materials to the address below. The next available Springfield Historical Commission meeting is **Thursday, June 26, 2025 at 5:30pm**, and the application needs to be submitted two weeks in advance of the meeting (**by June 11, 2025 at 4:30pm**). If you cannot make this meeting, please contact me for future meeting dates. However, your work cannot continue until you receive the approval from the Commission.

If you do not comply, the Commission will be forced to take further action. In addition, the Building Department has been notified of the work that is occurring to determine if permitting is required on their end.

If you have any questions, please feel free to contact me at (413) 787-6525.

Sincerely,

Andrew Strniste
Director of Community Planning

Return Address:
Springfield Historical Commission
70 Tapley Street
Springfield, MA 01104

cc: file, Springfield Law Department, Springfield Building Department





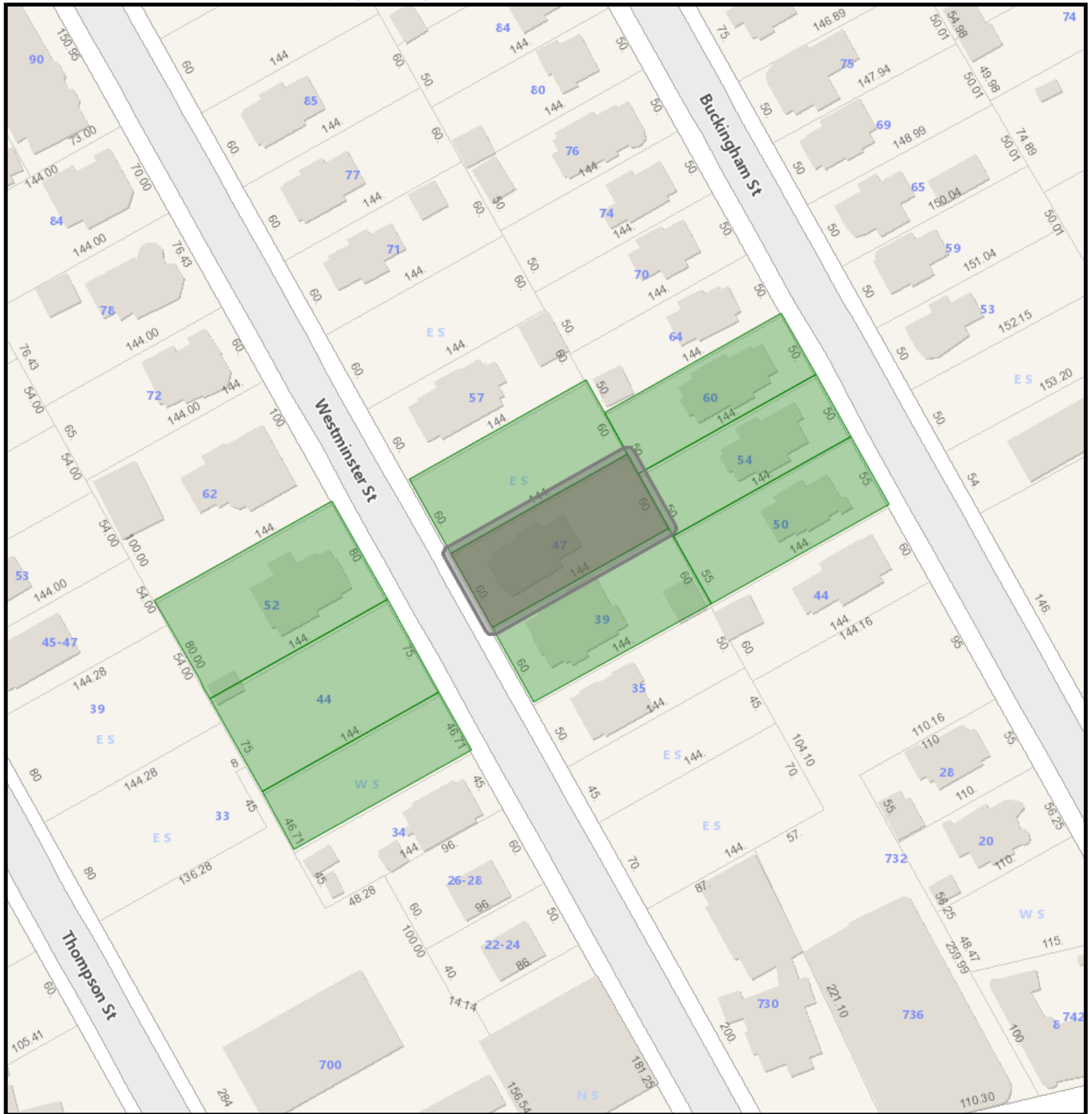




05/20/2025 12:07



05/20/2025 12:08



47 Westminister Street GIS

9/24/2025 11:39:54 AM

Scale: 1"=100'

Scale is approximate



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122010011
BHUIYA BOKUL HUQ &
52 WESTMINSTER ST
SPRINGFIELD, MA 01109

122010065
BOWEN COLEEN F
57 WESTMINSTER ST
SPRINGFIELD, MA 01109

020420010
EDWARDS RUTH
54 BUCKINGHAM ST
SPRINGFIELD, MA 01109

122010067
KELLY GERALDINE ESTATE
39 WESTMINSTER ST
SPRINGFIELD, MA 01109

122010066
LOPEZ-MACARIO OVIDIA
47 WESTMINSTER ST
SPRINGFIELD, MA 01109

020420011
NEW VISION REALTY LLC
PO BOX 14
LYNN, MA 01905

020420009
RIVERA ANGEL
23 BESTON ST
CHICOPEE, MA 01013

122010009
SPRINGFIELD CITY OF
36 COURT ST
SPRINGFIELD, MA 01103

122010007
TAIMANGLO DAVID B &
34 WESTMINSTER ST
SPRINGFIELD, MA 01109



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 137 Bellevue Avenue, Springfield, MA 01108

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST

☐

APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**

☐

PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.

☐

RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.

☐

PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. If available, please bring physical samples of the product to the meeting date.

☐

LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <i>Forest Park Heights</i>	DECISION:
DATE RECEIVED: <i>October 27, 2025</i>	DECISION DATE:
HEARING DATE: <i>November 20, 2025</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>November 6, 2025</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>November 6, 2025</i>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 137 Bellevue Avenue, Springfield, MA 01108

APPLICATION TYPE Certificate of Appropriateness



CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.



CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.



CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).



ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.



PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.



PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.



MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).



SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00).



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 137 Bellevue Avenue, Springfield, MA 01108		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: Fred Swan		
OWNER ADDRESS: ☒ Check box if same as property address		
OWNER PHONE NUMBER: (413) 297-4268	REPRESENTATIVE/CONTRACTOR NAME: Trinity Solar/Michael Blanchard	
OWNER EMAIL ADDRESS: fredallenswan@yahoo.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: 413-203-9088	
PROPERTY CODE: Ø1225-ØØ45	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: applications.westma@trinity-solar.com	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Due to high electrical bills, the homeowner proposes to have solar panels installed. Trinity Solar would be installing 10.66 kW DC (26 panels).		PROPOSED MODIFICATIONS (Please check all that apply) ☐ Windows (see Page 3) ☐ Doors (see Page 4) ☐ Siding (see Page 5) ☒ Roofing (see Page 6) ☒ Solar (see Page 6) ☐ Signs (see Page 7) ☐ Heat Pumps (see page 7) ☐ Paint (see Page 8) ☐ Renovations (e.g. Porches) (see Page 8) ☐ New Construction (all of the above) ☐ Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED): Due to high electrical bills, the homeowner proposes to have solar panels installed. Roof shingles need to be replaced for solar installation.		

☐ Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

FRED ALLEN SWAN
FRED ALLEN SWAN (Oct 25, 2025 13:11:12 EDT)

PROPERTY OWNER'S SIGNATURE

10/25/25

DATE

ROOFING

☒ Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.

☒ Check box indicating that you are submitting photographs of the existing roofing.

	EXISTING	PROPOSED
ROOF STYLE (e.g. gable, hip, mansard, etc):	Pitched	Pitched
MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	Asphalt	Asphalt
PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:		
PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING:		
Re-roof needed to install solar panels		
ADDITIONAL INFORMATION:		

SOLAR

WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?

☒
☐

YES (PLEASE PROVIDE MORE INFO ABOVE)
No

☒ Check box indicating that you are submitting plans of the proposed solar project.

☒ Check box indicating that you are submitting photographs of the existing roofing.

ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	Asphalt
NUMBER OF SOLAR POWERED PANELS:	26
SOLAR MANUFACTURER:	SolarEdge Technologies
LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):	12 panels on garage. 14 panels on east and west sides of house. All panels on roof.
LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):	West side of house
LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):	West side of house, disconnect on west side of garage.
LOCATION OF CONDUIT (e.g. side of building, inside the house):	Trench from west side of house to garage.
PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):	EMT type, silver



NJ, Electrical Contractor business permit number 34EB00839200

NJ, HIC reg. # 13VH12957000

For other jurisdictions, please visit: <http://www.trinity-solar.com/about-us/locations-and-licenses>

HOMEOWNER AUTHORIZATION FORM

I, Fred Swan,
(print name)

am the owner of the property located at address:

137 Bellevue Avenue Springfield, Massachusetts 01108 United States
(print address)

I hereby authorize Trinity Solar, LLC ("Trinity Solar") and its employees, agents, and subcontractors, including without limitation, _____, to act as my Agent for the limited purpose of applying for and obtaining local building and other permits from the Authority Having Jurisdiction as required for the installation of a Photovoltaic System, Battery System, roofing or other Trinity Solar offerings located on my property, applying and obtaining permission and approval for interconnection with the electric utility company, and registration with any state and/or local incentive program(s).

This authorization includes the transfer/re-administering, and/or cancellation of any existing permits on file for the purpose of updating/applying with an alternate subcontractor.

Without limitation to the generality of the foregoing I specifically authorize Trinity Solar et al. to populate technical details, fill-in, edit, compile, attach drawings, plans, data sheets and other documentation to, date, submit, re-submit, revise, amend, and modify application, submission and certification documents ("Approvals Paperwork"), including those for which signature pages are included herewith for my signature, in furtherance of the related transaction, and I am providing any signatures to Approvals Paperwork for purposes of the foregoing. Trinity Solar will provide copies of Approvals Paperwork upon request by the homeowner. My authorizations memorialized herein shall remain in full force and effect until revoked. I acknowledge that these authorizations are not required to proceed with the transaction and are not a condition of the related agreement included herewith but are being given for my own convenience and benefit in order to expedite the approvals processes.

Electric Utility Company: Eversource (Formerly WMECO)

Electric Utility Account No.: 72001961761

Electric Meter No.: 034698092

Name on Electric Utility Account: Fred Swan

Customer Signature

Fred Swan

Print Name

April 24, 2025

Date

Corporate Headquarters

2211 Allenwood Road
Wall, New Jersey 07719
www.Trinity-Solar.com

1-877-SUN-SAVES

Ph: 732-780-3779
Fax: 732-780-6671

**FOR INFORMATION ABOUT CONTRACTORS AND THE CONTRACTORS' REGISTRATION ACT,
CONTACT THE NEW JERSEY DEPARTMENT OF LAW AND PUBLIC SAFETY,
DIVISION OF CONSUMERS AFFAIRS AT 1-888-656-6225.**

INSTALLATION OF NEW ROOF MOUNTED PV SOLAR SYSTEM

137 BELLEVUE AVE
SPRINGFIELD, MA 01108

BELLEVUE AVE ●



 **VICINITY MAP**
SCALE: NTS

SITE

GENERAL NOTES

1. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTIONS CONTAINED IN THE DRAWING PACKAGE AND INFORMATION RECEIVED FROM TRINITY.
2. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTION CONTAINED IN THE COMPLETE MANUAL.
3. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING ALL DRAWINGS, COMPONENT AND INVERTER MANUALS PRIOR TO INSTALLATION. THE INSTALLATION CONTRACTOR IS ALSO REQUIRED TO HAVE ALL COMPONENT SWITCHES IN THE OFF POSITION AND FUSES REMOVED PRIOR TO THE INSTALLATION OF ALL FUSE BEARING SYSTEM COMPONENTS.
4. ONCE THE PHOTOVOLTAIC MODULES ARE MOUNTED, THE INSTALLATION CONTRACTOR SHOULD HAVE A MINIMUM OF ONE ELECTRICIAN WHO HAS ATTENDED A SOLAR PHOTOVOLTAIC INSTALLATION COURSE ON SITE.
5. FOR SAFETY, IT IS RECOMMENDED THAT THE INSTALLATION CREW ALWAYS HAVE A MINIMUM OF TWO PERSONS WORKING TOGETHER AND THAT EACH OF THE INSTALLATION CREW MEMBERS BE TRAINED IN FIRST AID AND CPR.
6. THIS SOLAR PHOTOVOLTAIC SYSTEM IS TO BE INSTALLED FOLLOWING THE CONVENTIONS OF THE NATIONAL ELECTRICAL CODE. ANY LOCAL CODE WHICH MAY SUPERSEDE THE NEC SHALL GOVERN.
7. ALL SYSTEM COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE "UL" LISTED. ALL EQUIPMENT WILL BE NEMA 3R OUTDOOR RATED UNLESS INDOORS.

GENERAL NOTES

IF ISSUED DRAWING IS MARKED WITH A REVISION CHARACTER OTHER THAN "A", PLEASE BE ADVISED THAT FINAL EQUIPMENT AND/OR SYSTEM CHARACTERISTICS ARE SUBJECT TO CHANGE DUE TO AVAILABILITY OF EQUIPMENT.

GENERAL NOTES CONTINUED

8. THE DC VOLTAGE FROM THE PANELS IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. ALL PERSONS WORKING ON OR INVOLVED WITH THE PHOTOVOLTAIC SYSTEM ARE WARNED THAT THE SOLAR MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT.
9. ALL PORTIONS OF THIS SOLAR PHOTOVOLTAIC SYSTEM SHALL BE MARKED CLEARLY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 690 & 705.
10. PRIOR TO THE INSTALLATION OF THIS PHOTOVOLTAIC SYSTEM, THE INSTALLATION CONTRACTOR SHALL ATTEND A PRE-INSTALLTION MEETING FOR THE REVIEW OF THE INSTALLATION PROCEDURES, SCHEDULES, SAFETY AND COORDINATION.
11. PRIOR TO THE SYSTEM START UP THE INSTALLATION CONTRACTOR SHALL ASSIST IN PERFORMING ALL INITIAL HARDWARE CHECKS AND DC WIRING CONDUCTIVITY CHECKS.
12. FOR THE PROPER MAINTENANCE AND ISOLATION OF THE INVERTERS REFER TO THE ISOLATION PROCEDURES IN THE OPERATION MANUAL.
13. THE LOCATION OF PROPOSED ELECTRIC AND TELEPHONE UTILITIES ARE SUBJECT TO FINAL APPROVAL OF THE APPROPRIATE UTILITY COMPANIES AND OWNERS.
14. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
 - A) CURRENT PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS AND REQUIREMENTS

GENERAL NOTES CONTINUED

14. B) CURRENT PREVAILING UTILITY COMPANY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS
- 15 THIS SET OF PLANS HAVE BEEN PREPARED FOR THE PURPOSE OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. ONCE APPROVED, THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL SYSTEM COMPONENTS AS DESCRIBED IN THE DRAWING PACKAGE.
- 16 ALL INFORMATION SHOWN MUST BE CERTIFIED PRIOR TO USE FOR CONSTRUCTION ACTIVITIES.

ABBREVIATIONS

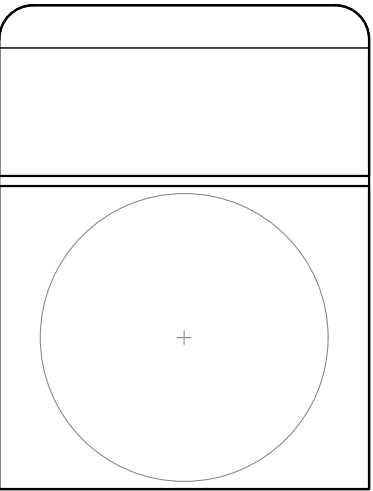
AMP	AMPERE
AC	ALTERNATING CURRENT
AL	ALUMINUM
AF	AMP. FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT (GENERIC TERM OF RACEWAY, PROVIDE AS SPECIFIED)
CB	COMBINER BOX
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT SWITCH
DWG	DRAWING
EC	ELECTRICAL SYSTEM INSTALLER
EMT	ELECTRICAL METALLIC TUBING
FS	FUSIBLE SWITCH
FU	FUSE
GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HZ	FREQUENCY (CYCLES PER SECOND)

ABBREVIATIONS CONTINUED

JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILO-VOLT AMPERE
KW	KILO-WATT
KWH	KILO-WATT HOUR
L	LINE
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MTD	MOUNTED
MTG	MOUNTING
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO #	NUMBER
NTS	NOT TO SCALE
OCP	OVER CURRENT PROTECTION
P	POLE
PB	PULL BOX
PH Ø	PHASE
PVC	POLY-VINYL CHLORIDE CONDUIT
PWR	POWER
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
SN	SOLID NEUTRAL
JSWBD	SWITCHBOARD
TYP	TYPICAL
U.O.I.	UNLESS OTHERWISE INDICATED
WP	WEATHERPROOF
XFMR	TRANSFORMER
+72	MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE

SHEET INDEX

- PV-1 COVER SHEET W/ SITE INFO & NOTES
PV-2 ROOF PLAN W/ MODULE LOCATIONS
PV-3 ELECTRICAL 3 LINE DIAGRAM
AP APPENDIX



Issued / Revisions

R1	UTILITY INFO	9/5/2025
P1	ISSUED TO TOWNSHIP FOR PERMIT	08/21/2025
NO.	DESCRIPTION	DATE

Project Title:

SWAN, FREDERICK-
TRINITY ACCT #: 2025-04-1321327

Project Address:

137 BELLEVUE AVE
SPRINGFIELD, MA 01108
42.0914, -72.5682

Drawing Title:

PROPOSED PV SOLAR SYSTEM

Drawing Information

DRAWING DATE:	08/21/2025
DRAWN BY:	KTD
REVISED BY:	DMR

System Information:

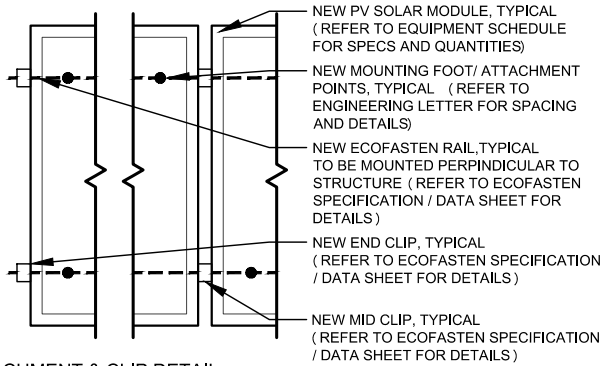
DC SYSTEM SIZE:	10.66kW
AC SYSTEM SIZE:	10kW
MODULE COUNT:	26
MODULES USED:	HANWHA 410
MODULE SPEC #:	Q.PEAK DUO BLK ML-G10.C+ 410
UTILITY COMPANY:	EVERSOURCE
UTILITY ACCT #:	7200 356 4092
UTILITY METER #:	034698092
DEAL TYPE:	IGS SOLAR, LLC

Rev. No.	Sheet
R1	PV - 1

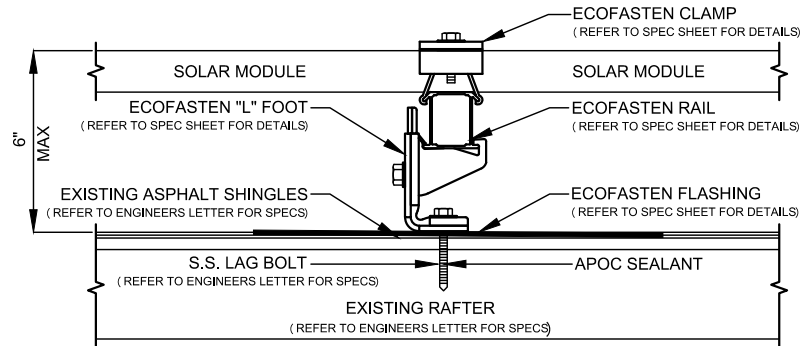


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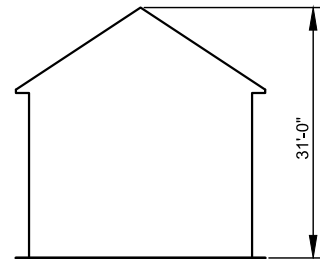
NOTES : *REFER TO MODULE SPECS FOR MODULE DIMENSIONS
*DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



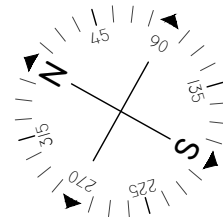
ATTACHMENT & CLIP DETAIL
SCALE: NOT TO SCALE



PV MODULE ATTACHMENT ON ASPHALT SHINGLE ROOF
SCALE: NOT TO SCALE



HEIGHT FROM GROUND LEVEL TO PEAK OF ROOF
SCALE: NOT TO SCALE



ARRAY SCHEDULE

ROOF 1
MODULES: 0
PITCH: 34°
ORIENTATION: 331°

ROOF 2
MODULES: 12
PITCH: 34°
ORIENTATION: 151°

ROOF 3
MODULES: 0
PITCH: 0°
ORIENTATION: 151°

ROOF 4
MODULES: 0
PITCH: 45°
ORIENTATION: 331°

ROOF 5
MODULES: 2
PITCH: 34°
ORIENTATION: 61°

ROOF 6
MODULES: 0
PITCH: 34°
ORIENTATION: 241°

ROOF 7
MODULES: 0
PITCH: 32°
ORIENTATION: 241°

ROOF 8
MODULES: 0
PITCH: 32°
ORIENTATION: 61°

ROOF 9
MODULES: 0
PITCH: 23°
ORIENTATION: 151°

ROOF 10
MODULES: 0
PITCH: 23°
ORIENTATION: 61°

ROOF 11
MODULES: 0
PITCH: 23°
ORIENTATION: 241°

ROOF 12
MODULES: 0
PITCH: 27°
ORIENTATION: 151°

ROOF 13
MODULES: 0
PITCH: 27°
ORIENTATION: 61°

ROOF 14
MODULES: 0
PITCH: 27°
ORIENTATION: 331°

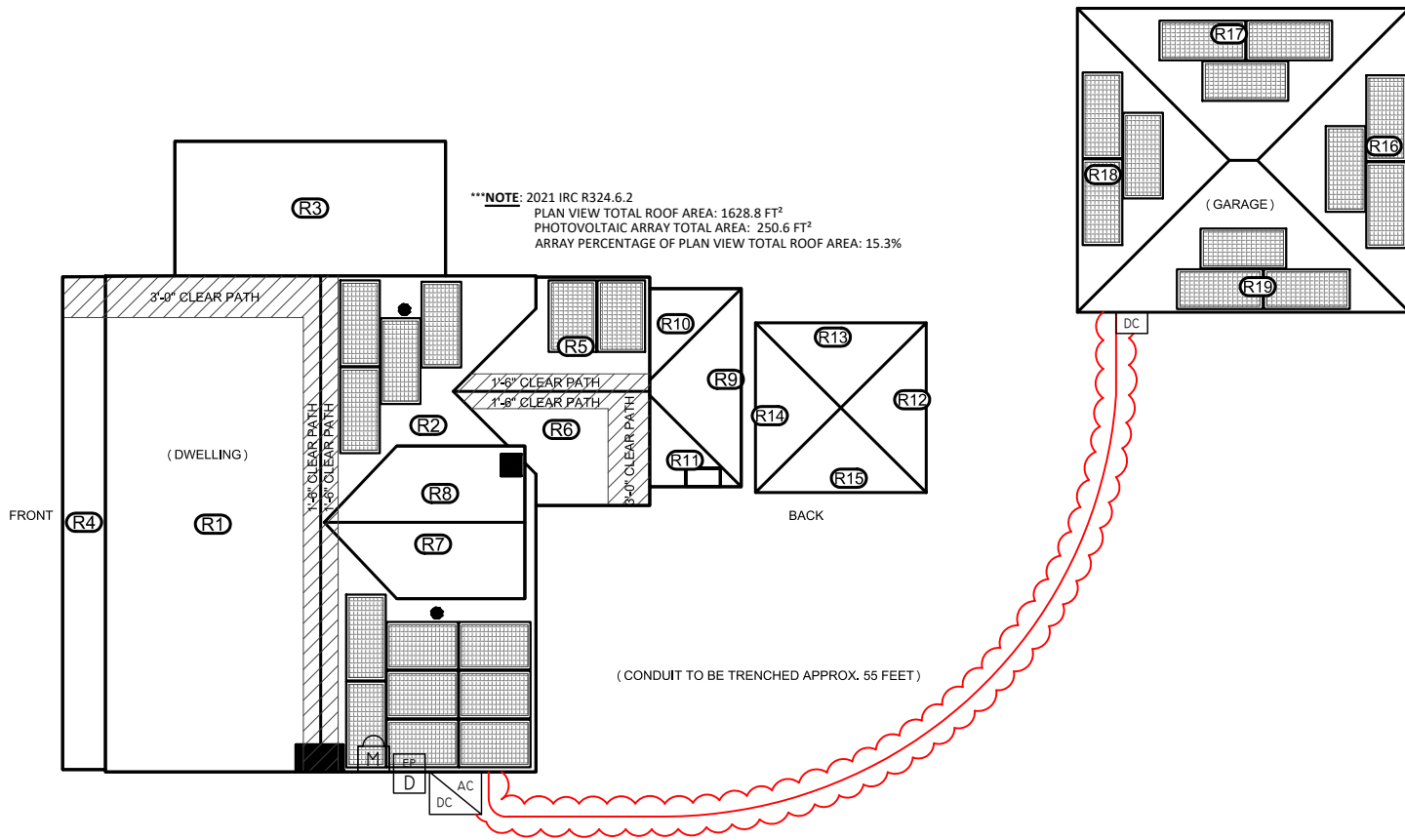
ROOF 15
MODULES: 0
PITCH: 27°
ORIENTATION: 241°

ROOF 16
MODULES: 3
PITCH: 34°
ORIENTATION: 151°

ROOF 17
MODULES: 3
PITCH: 34°
ORIENTATION: 61°

ROOF 18
MODULES: 3
PITCH: 34°
ORIENTATION: 331°

ROOF 19
MODULES: 3
PITCH: 34°
ORIENTATION: 241°



NOTES:

- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2.) ARRAY BONDING TO COMPLY WITH MANUFACTURER SPECIFICATION.
- 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
- 4.) AN AC DISCONNECT SHALL BE GROUPED WITH INVERTER (S) NEC 690.13 (E) .
- 5.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN TIGHT WITH MINIMUM NEMA 3R RATING.
- 6.) ROOFTOP SOLAR INSTALLATION ONLY PV ARRAY SHALL NOT EXTEND BEYOND THE EXISTING ROOF EDGE.

SYMBOL LEGEND

	INDICATES ROOF DESIGNATION . REFER TO ARRAY SCHEDULE FOR MORE INFORMATION		INDICATES NEW UNFUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)		INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED
	INDICATES EXISTING METER LOCATION		INDICATES NEW PV SOLAR MODULE. RED MODULES INDICATE PANELS THAT USE MICRO INVERTERS. REFER TO EQUIPMENT SCHEDULE FOR SPECS.		INDICATES NEW DC DISCONNECT
	INDICATES EXISTING ELECTRICAL PANEL LOCATION: INSIDE		INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.		INDICATES EXISTING SERVICE DISCONNECT
	INDICATES NEW FUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)		INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS		INDICATES EXISTING TRANSFER SWITCH

PLUMBING SCHEDULE

QTY	SPEC #
26	HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)
1	USE10000H-USMNB175
26	U650 OPTIMIZER
24	ECOFASTEN 2012035 CF STD US RAIL AL MLL 171.5
3	ECOFASTEN 2012045 CF US RAIL SPLICE SS
100	ECOFASTEN 2012036 CF US SMART FOOT AL MLL W/ (2)#14 SCREWS
26	ECOFASTEN 2012019 CF MLPE MOUNT
60	ECOFASTEN 2099017 CF END CLAMP 32MM BLK
22	ECOFASTEN 2099022 CF MID CLAMP SHORT BLK

EQUIPMENT SCHEDULE

QTY	SPEC #
26	HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)
1	USE10000H-USMNB175
26	U650 OPTIMIZER
24	ECOFASTEN 2012035 CF STD US RAIL AL MLL 171.5
3	ECOFASTEN 2012045 CF US RAIL SPLICE SS
100	ECOFASTEN 2012036 CF US SMART FOOT AL MLL W/ (2)#14 SCREWS
26	ECOFASTEN 2012019 CF MLPE MOUNT
60	ECOFASTEN 2099017 CF END CLAMP 32MM BLK
22	ECOFASTEN 2099022 CF MID CLAMP SHORT BLK

OTHER OBSTRUCTIONS

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Issued / Revisions

NO.	DESCRIPTION	DATE
R1	UTILITY INFO	9/5/2025
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UTILITY COMPANY:	EVERSOURCE
UTILITY ACCT #:	7200 356 4092
UTILITY METER #:	034698092
DEAL TYPE:	IGS SOLAR, LLC

Rev. No.

R1

Sheet

PV - 2



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Wall, New Jersey 07719

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ARRAY CIRCUIT WIRING NOTES
1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ONSITE CONDITIONS AND EXECUTING INSTALLATION IN ACCORDANCE WITH
NEC 2023

2.) LOWEST EXPECTED AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP = -16°C

3.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMP = 33°C

4.) 2005 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN A ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES)

5.) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION THAT CONTROLS SPECIFIC CONDUCTORS IN ACCORDANCE WITH **NEC 690.12(A) THROUGH (D)**

6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT PER **NEC 690.41 (A)(4)**

7.) UNGROUNDED DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED WITH THE FOLLOWING OUTER FINISH:
POSITIVE CONDUCTORS = RED
NEGATIVE CONDUCTORS = BLACK
NEC 210.5(C)(2)

8.) ARRAY AND SUB ARRAY CONDUCTORS SHALL BE #10 PV WIRE TYPE RHW-2 OR EQUIVELANT AND SHALL BE PROTECTED BY CONDUIT WHERE EXPOSED TO DIRECT SUNLIGHT. SUB ARRAY CONDUIT LONGER THAN 24" SHALL CONTAIN ≤ 20 CURRENT CARRYING CONDUCTORS AND WHERE EXPOSED TO DIRECT SUNLIGHT SHALL CONTAIN ≤ 9 CURRENT CARRYING CONDUCTORS.

9.) ALL WIRE LENGTHS SHALL BE LESS THAN 100' UNLESS OTHERWISE NOTED

10.) FLEXIBLE CONDUIT SHALL NOT BE INSTALLED ON ROOFTOP AND SHALL BE LIMITED TO 12" IF USED OUTDOORS

11.) DISCONNECTS FED BY SUPPLY-SIDE SOURCE CONDUCTORS SHALL BE BONDED AND CONNECTED TO GROUNDING SYSTEM IN ACCORDANCE WITH **NEC 250.24**

12.) OVERCURRENT PROTECTION FOR CONDUCTORS CONNECTED TO THE SUPPLY SIDE OF A SERVICE SHALL BE LOCATED WITHIN 10' OF THE POINT OF CONNECTION **NEC 690.9(A)(3)(2)**

13.) WHERE TWO SOURCES FEED A BUSSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKER(S) SHALL BE LOCATED OPPOSITE FROM UTILITY **NEC 705.12(B)(2)**

14.) ALL SOLAR SYSTEM LOAD CENTERS TO CONTAIN ONLY GENERATION CIRCUITS AND NO UNUSED POSITIONS OR LOADS

15.) ALL EQUIPMENT INSTALLED OUTDOORS SHALL HAVE A **NEMA 3R** RATING

CALCULATIONS FOR CURRENT CARRYING CONDUCTORS
REQUIRED CONDUCTOR AMPACITY PER STRING
[NEC 690.8(B)(1)]: (15.00*1.25)1 = 18.75A

AWG #10, DERATED AMPACITY
AMBIENT TEMP: 33°C, TEMP DERATING FACTOR: .96
RACEWAY DERATING = 4 CCC: 0.80
(40*.96)0.80 = 30.72A

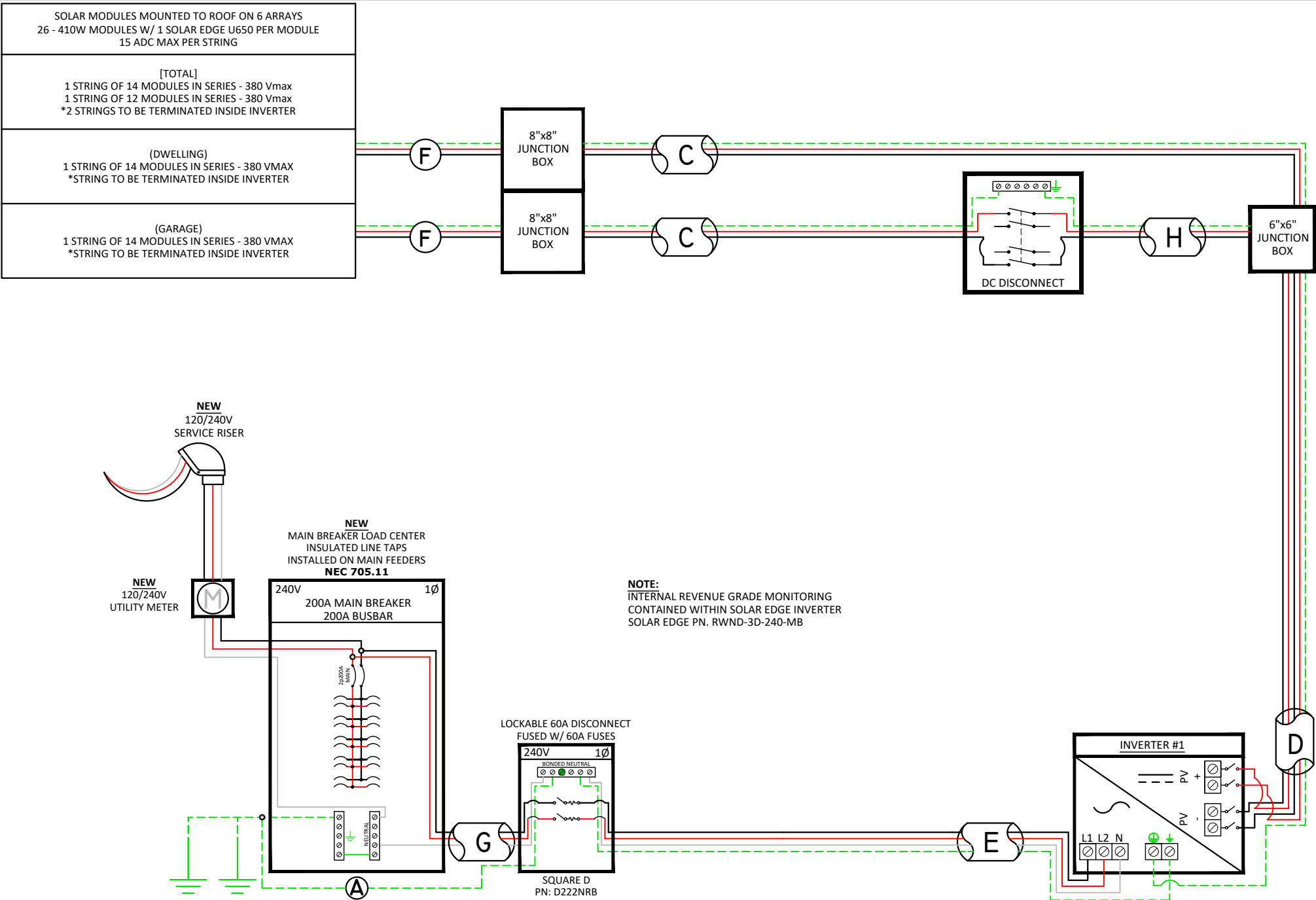
30.72A ≥ 18.75A, THEREFORE WIRE SIZE IS VALID

TOTAL AC REQUIRED CONDUCTOR AMPACITY
42.00A*1.25 = 52.50A

AWG #6, DERATED AMPACITY
AMBIENT TEMP: 30°C, TEMP DERATING: 1.0
RACEWAY DERATING ≤ 3 CCC: N/A
75A*1.0 = 75A

75A ≥ 52.50A, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION
TOTAL INVERTER CURRENT: 42.00A
42.00A*1.25 = 52.50A
--> 60A OVERCURRENT PROTECTION IS VALID



NOTE:
INTERNAL REVENUE GRADE MONITORING
CONTAINED WITHIN SOLAR EDGE INVERTER
SOLAR EDGE PN. RWND-3D-240-MB

PV MODULE SPECIFICATIONS	
HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)	
Imp	10.89
Vmp	37.64
Voc	45.37
Isc	11.2

INVERTER #1 - USE10000H-USMNB175			
DC		AC	
Imp	28.05	Pout	10000
Vmp	380	Imax	42
Voc	480	OCPDmin	52.5
Isc	30	Vnom	240

NOTE: CONDUIT TYPE SHALL BE CHOSEN BY THE INSTALLATION CONTRACTOR TO MEET OR EXCEED NEC AND LOCAL AHJD REQUIREMENTS

A	#6 THWN-2 TO GEC	G	3/4" CONDUIT W/ 2-#6 THWN-2, 1-#6 THWN-2
B	3/4" CONDUIT W/ 2-#6 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND	H	1" PVC W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND (TRENCHED APPROX. 55')
C	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND		
D	3/4" CONDUIT W/ 4-#10 THWN-2, 1-#10 THWN-2 GROUND		
E	3/4" CONDUIT W/ 2-#6 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND		
F	#10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY		

Engineer / License Holder:

+

Issued / Revisions

R1	UTILITY INFO	9/5/2025
P1	ISSUED TO TOWNSHIP FOR PERMIT	08/21/2025
NO.	DESCRIPTION	DATE

Project Title:

SWAN, FREDERICK-
TRINITY ACCT #: 2025-04-1321327

Project Address:

137 BELLEVUE AVE
SPRINGFIELD, MA 01108
42.0914, -72.5682

Drawing Title:

PROPOSED PV SOLAR SYSTEM

Drawing Information

DRAWING DATE:	08/21/2025
DRAWN BY:	KTD
REVISED BY:	DMR

System Information:

DC SYSTEM SIZE:	10.66kW
AC SYSTEM SIZE:	10kW
MODULE COUNT:	26
MODULES USED:	HANWHA 410
MODULE SPEC #:	Q.PEAK DUO BLK ML-G10.C+ 410
UTILITY COMPANY:	EVERSOURCE
UTILITY ACCT #:	7200 356 4092
UTILITY METER #:	034698092
DEAL TYPE:	IGS SOLAR, LLC

Rev. No.

R1

Sheet

PV - 3

Trinity
SOLAR

2211 Allenwood Road
Wall, New Jersey 07719

877-786-7283
www.Trinity-Solar.com

- NOTES:**
- 1.) COMPLIES WITH NEC 2023
 - 2.) REFER TO SHEET PV-3 FOR SITE SPECIFIC VALUES REQUIRED BY NEC 690
 - 3.) STICKERS, LABELS, AND PLACKARDS SHALL BE OF SUFFICIENT DURRABILITY TO WITHSTAND THE ENVIROMENT INVOLVED

To be located on all DC junction boxes
and every 10' on DC conduit

**WARNING: PHOTOVOLTAIC
POWER SOURCE**

NEC 690.31(D)(2)



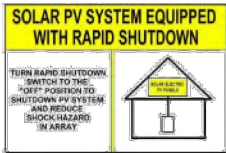
DC Junction Box



Soladeck



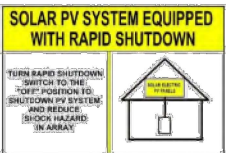
DC Conduit



NEC 690.13



Service Disconnect



NEC 690.13

If System is Backfed Breaker

WARNING
UNEXPECTED CONTACT HAZARD. DO NOT
RELOCATE THIS DISCONNECT BRIDGE.

NEC 705.12(B)(2)

PHOTOVOLTAIC AC DISCONNECT
DANGER: AC OVER 120 VOLT
DANGER: AC OVER 120 VOLT

NEC 690.4(B)



Main Service Panel

WARNING: DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

Utility



Utility Meter
Socket

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

NEC 690.13(B)



Solar Meter Socket

**RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM**

690.56(D)(2)

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

NEC 690.13(B)

PHOTOVOLTAIC AC DISCONNECT
DANGER: AC OVER 120 VOLT
DANGER: AC OVER 120 VOLT

NEC 690.4(B)



Photovoltaic
AC Disconnect

PHOTOVOLTAIC AC DISCONNECT
DANGER: AC OVER 120 VOLT
DANGER: AC OVER 120 VOLT

NEC 690.4(B)



Load Center
(To Combine Inverters)

**RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM**

690.56(D)(2)

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

NEC 690.13(B)

**PHOTOVOLTAIC
DC DISCONNECT**

NEC 690.4(B)

**MAXIMUM DC VOLTAGE
OF PV SYSTEM**

NEC 690.7(D)



Inverter(s)



**PHOTOVOLTAIC
DC DISCONNECT**

NEC 690.4(B)

**MAXIMUM DC VOLTAGE
OF PV SYSTEM**

NEC 690.7(D)



DC Disconnect

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

NEC 690.13(B)



Enphase Envoy Box

Trinity[®]
SOLAR

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www.Trinity-Solar.com

Q.PEAK DUO BLK ML-G10+ SERIES

395-415 Wp | 132 Cells
21.1% Maximum Module Efficiency
Domestic Content Option Available

MODEL *Q.PEAK DUO BLK ML-G10+
Q.PEAK DUO BLK ML-G10.C+



Includes Domestic Content
This product contains U.S. manufactured components which can contribute to qualifying for the 10% domestic content bonus to applicable tax credits under the Inflation Reduction Act of 2022.¹



Breaking the 21% efficiency barrier
Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.1%.



A reliable investment
Inclusive 25-year product warranty and 25-year linear performance warranty.²



Enduring high performance
Long-term yield security with Anti LeTID Technology, Anti PID Technology³ and Hot-Spot Protect.



Extreme weather rating
High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



Far beyond the standard
Qcells' comprehensive quality program ensures high long-term yields and the reliability of your solar system.

¹ This statement should not be relied on as tax advice and is subject to change based on changes made to the Inflation Reduction Act and its implementing rules and regulations. Please consult a qualified tax professional for specific guidance.
² See data sheet on rear for further information.
³ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96h)

The ideal solution for:
Rooftop arrays on residential buildings

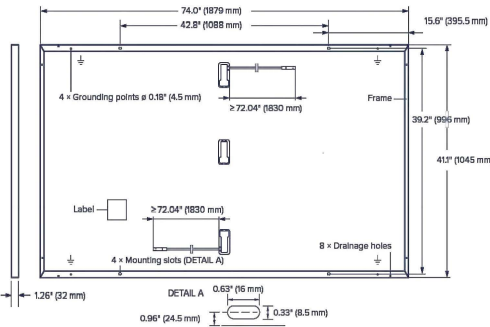
*DCA Module Option:
DCA 17 module has material code 'MD06G100A-017' printed on the module power label.



Q.PEAK DUO BLK ML-G10+ SERIES

Mechanical Specification

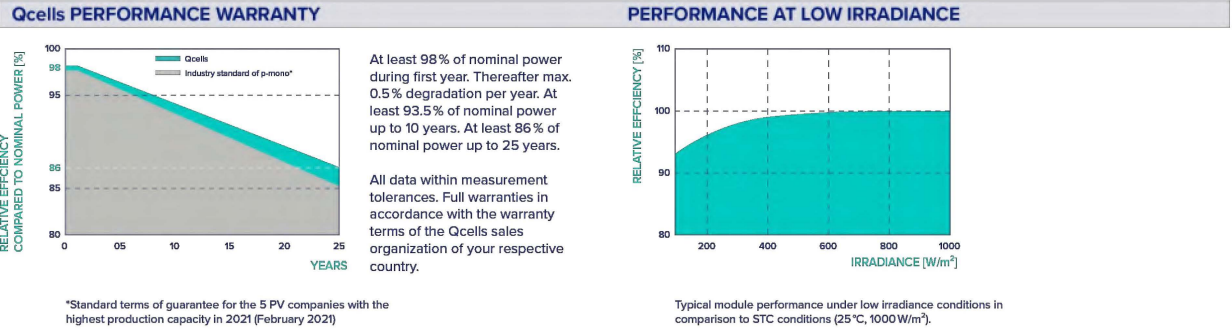
Format	74.0 in × 41.1 in × 1.26 in (including frame) (1879 mm × 1045 mm × 32 mm)
Weight	48.5 lbs (22.0 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 72.04 in (1830 mm), (-) ≥ 72.04 in (1830 mm)
Connector	Stäubli MC4; IP68



Electrical Characteristics

POWER CLASS			395	400	405	410	415
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W/-0W)							
Minimum	Power at MPP ¹	P _{MPP} [W]	395	400	405	410	415
	Short Circuit Current ¹	I _{SC} [A]	11.10	11.14	11.17	11.20	11.23
	Open Circuit Voltage ¹	V _{OC} [V]	45.27	45.30	45.34	45.37	45.41
	Current at MPP	I _{MPP} [A]	10.71	10.77	10.83	10.89	10.95
	Voltage at MPP	V _{MPP} [V]	36.88	37.13	37.39	37.64	37.89
	Efficiency ¹	η [%]	≥20.1	≥20.4	≥20.6	≥20.9	≥21.1
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²							
Minimum	Power at MPP	P _{MPP} [W]	296.3	300.1	303.8	307.6	311.3
	Short Circuit Current	I _{SC} [A]	8.95	8.97	9.00	9.03	9.05
	Open Circuit Voltage	V _{OC} [V]	42.69	42.72	42.76	42.79	42.83
	Current at MPP	I _{MPP} [A]	8.46	8.51	8.57	8.62	8.68
	Voltage at MPP	V _{MPP} [V]	35.03	35.25	35.46	35.68	35.89

¹Measurement tolerances P_{MPP} ±3%; I_{SC}; V_{OC} ±5% at STC: 1000 W/m², 25 ±2 °C, AM 1.5 according to IEC 60904-3 • ²800 W/m², NMOT, spectrum AM 1.5



TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V _{oc}	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

Properties for System Design

Maximum System Voltage	V _{sys} [V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2
Max. Design Load, Push/Pull ³	[lbs/ft ²]	75 (3600 Pa)/55 (2660 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push/Pull ³	[lbs/ft ²]	113 (5400 Pa)/84 (4000 Pa)		

³ See Installation Manual

Qualifications and Certificates

UL61730-1 & UL61730-2, CE-compliant,
IEC 61215:2016, IEC 61730:2016,
U.S. Patent No. 9,893,215 (solar cells),



*Contact your Qcells Sales Representative for details regarding the module's eligibility to be Buy American Act (BAA) compliant.

Qcells pursues minimizing paper output in consideration of the global environment.
Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.
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/ SolarEdge Home Hub Inverter
USA Domestic Content Eligible
Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	SExxxxxH-USMNxBLx5 / USExxxxxH-USMNBŁ75					
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US	
OUTPUT – AC ON GRID						
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	7600 @ 240V	10,000 @ 240V	11,400 @ 240V 10,000 @ 208V	W
AC Output Voltage (Nominal)	208 / 240					Vac
AC Output Voltage (Range)	183 – 264					Vac
AC Frequency Range (min - nom - max)	59.3 – 60 – 60.5 ⁽²⁾					Hz
Maximum Continuous Output Current	16 @ 240V 16 @ 208V	24 @240V 24 @ 208V	32 @ 240V	42 @ 240V	47.5 @ 240V 48 @208V	A
GFDI Threshold	1					A
Total Harmonic Distortion (THD)	< 3					%
Power Factor	1, adjustable -0.85 to 0.85					
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes					
Charge Battery from AC (if allowed)	Yes					
Typical Nighttime Power Consumption	< 2.5					W
OUTPUT – AC STANDALONE (BACKUP) ⁽³⁾						
Rated AC Power in Standalone Operation ⁽⁴⁾	11,400					W
Maximum Continuous Output Current in Standalone Operation	48					A
Locked Rotor Amperage (LRA) ⁽⁵⁾	Up to 106					A
AC L-L Output Voltage Range in Standalone Operation	211 – 264					Vac
AC L-N Output Voltage Range in Standalone Operation	105 – 132					Vac
AC Frequency Range in Standalone Operation (min - nom - max)	55 – 60 – 65					Hz
GFDI	1					A
THD	< 5					%
INPUT – DC (PV AND BATTERY)						
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage	480					Vdc
Nominal DC Input Voltage	380					Vdc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	600kQ Sensitivity					
Maximum Input Short Circuit Current	45					Adc
Maximum Inverter Efficiency	99.2					%
CEC Weighted Efficiency	98.5		99		99 @ 240V 98.5 @ 208V	%
2-Pole Disconnection	Yes					
DC CONNECTION – PV						
Maximum Input Power	7600 @ 240V 6600 @ 208V	11,520 @ 240V 10,000 @ 208V	15,200 @ 240V	20,000 @ 240V	22,800 @ 240V 20,000 @ 208V	W
Maximum Input Current	20 @ 240V 17 @ 208V	30 @ 240V 26 @ 208V	40 @ 240V	53 @ 240V	60 @ 240V 53 @ 208V	Adc
Number of Ports	3					
Maximum Current per Port	40					Adc

(1) These specifications apply to inverters with part number SExxxxxH-USMNxBLx5 and USExxxxxH-USMNB�75 and connection unit model number DCD-1PH-US-PxH-F-x.
(2) For other regional settings please refer to the [SolarEdge Inverters, Power Control Options](#) application note.
(3) Not designed for non-grid connected applications and requires AC for commissioning. Standalone (backup) functionality is only supported for the 240V grid.
(4) For models SE7600H-US and below, the Rated AC Power in Standalone Operation is configurable between 7,600W with a Maximum Continuous Output Current of 32A or 11,400W with a Maximum Continuous Output Current of 48A, from firmware version 4.20.xx.
(5) For more information about LRA (Locked Rotor Amperage) values, see the [SolarEdge Home Hub Inverter LRA](#) application note.

/ SolarEdge Home Hub Inverter
USA Domestic Content Eligible
Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	SExxxxxH-USMNxBLx5 / USExxxxxH-USMNB175					
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US	
DC CONNECTION – BATTERY						
Supported Battery Types	SolarEdge Home Battery 400V					
Number of Batteries per Inverter	Up to 3					
Maximum Continuous Power (Charge and Discharge) ⁽⁶⁾	11,400					W
Number of Ports	2					
Maximum Current per Port	40					Adc
2-pole Disconnection	Up to the inverter's rated standalone power					
SMART ENERGY CAPABILITIES						
Consumption Metering	Built-in ⁽⁷⁾					
Standalone & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; up to 3 inverters					
EV Charging	Direct connection to the SolarEdge Home EV Charger ⁽⁸⁾					
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁽⁹⁾ , Wi-Fi ⁽¹⁰⁾ (optional), SolarEdge Home Network ⁽¹⁰⁾ (optional)					
Revenue Grade Metering, ANSI C12.20	Built-in ⁽⁷⁾					
Integrated AC, DC, and Communication Connection Unit	Yes					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection					
DC Voltage Rapid Shutdown (PV and Battery)	Yes, NEC 690.12					
STANDARD COMPLIANCE						
Safety	UL 1741, UL 1741SA, UL 1741SB, UL 1699B, CSA 22.2#107.1, C22.2#330, C22.3#9, ANSI/CAN/UL 9540					
Grid Connection Standards	IEEE1547-2018 and IEEE-1547.1 Rule 21, Rule 14H					
Emissions	FCC Part 15 Class B					
Power Control System (PCS)	UL 1741 PCS ⁽¹¹⁾					
INSTALLATION SPECIFICATIONS						
AC Terminals	L1, L2, N terminal blocks, PE busbar for inverter connection L1, L2 terminal blocks, PE busbar for EV Charger AC connection					
DC Terminals	3 x terminal block pairs for PV input, 2 x terminal block pair for battery input					
AC Output and EV AC Output Conduit Size / AWG Range	1" maximum / 14 – 4 AWG					
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14 – 6 AWG					
Dimensions with Connection Unit (H x W x D)	21.06 x 14.6 x 8.2 / 535 x 370 x 208					in / mm
Weight with Connection Unit	44.9 / 20.3					lb / kg
Noise	< 50					dBA
Cooling	Natural Convection					
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹²⁾					°F / °C
Protection Rating	NEMA 4X					

(6) Discharge power is limited up to the inverter’s rated AC power for on-grid and standalone applications, as well as up to the installed batteries’ rating.
(7) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT1250-400NA-20. Revenue grade metering is only for production metering.
(8) For more information about the SolarEdge Home EV Charger, refer to the [SolarEdge Home EV Charger](#) datasheet.
(9) Information concerning the data plan terms & conditions is available in [SolarEdge Communication Plan Terms and Conditions](#).
(10) SolarEdge Home Network Plugin ENET-HBNP-01 and Wi-Fi Antenna SE-ANT-ZBWIFI-KIT purchased separately. For more information, refer to the [SolarEdge Home Network Plugin](#) datasheet and the [Antenna for Wi-Fi and ZigBee Wireless Communications](#) datasheet.
(11) Only part numbers SExxxxxH-USMNxx7x and USExxxxxH-USMNxx7x support the PCS meter.
(12) Full power up to at least 122°F / 50°C; for power derating information refer to the [Temperature Derating for North America](#) technical note.

Power Optimizer

USA Domestic Content Eligible*

For North America

U650 / U650B



POWER OPTIMIZER

SolarEdge's USA-manufactured offering for PV power optimization at the module level

- Eligible for domestic content: SolarEdge USA-manufactured Power Optimizers*, when paired with certain SolarEdge inverters, are intended to be eligible for the enhanced federal income tax credit for domestic content
 - Specifically designed to work with SolarEdge inverters
 - Supports high open circuit voltage (Voc) modules with U650B
 - U650B provides improved design flexibility of multifaceted, complex roofs, with extended output voltage that reduces yield factor losses
 - Superior efficiency (99.5%)
 - Mitigates diverse types of module mismatch loss, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
 - Faster installations with simplified wire management and easy assembly using a single bolt
 - Compatible with a wide range of modules, including high-powered and bifacial PV modules
 - Advanced safety:
 - Patented Sense Connect technology, designed to automatically detect and prevent potential electric arcs at the connector level before an arc is created
 - Patented SafeDC™ – module-level voltage shutdown, for installer and firefighter safety
 - Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)

* Manufactured by SolarEdge with the intent to be eligible for inclusion under the elective safe harbor in calculating the Domestic Cost Percentage under the “Rooftop (MLPE)” category (under IRS Notice 2024-41). The PCBA, Electrical Parts, and Enclosure are domestically manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% domestic content bonus, to determine how the applicable rules apply to your particular project. The forward-looking statements in this datasheet are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative

Power Optimizer

USA Domestic Content Eligible, for North America

U650 / U650B

	U650	U650B	Units
INPUT			
Rated Input DC Power ⁽¹⁾	650		W
Absolute Maximum Input Voltage (Voc)	60	100	Vdc
MPPT Operating Range	8 – 60	12.5 – 100	Vdc
Maximum Input Current (Maximum Isc of Connected PV Module)	15		Adc
Maximum Input Short Circuit Current ⁽²⁾	18.75		Adc
Maximum Efficiency	99.5		%
Weighted Efficiency	98.6		%
Overvoltage Category	II		
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)			
Maximum Output Current	15		Adc
Maximum Output Voltage	60	80	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR INVERTER OFF)			
Safety Output Voltage per Power Optimizer	1 ± 0.1		Vdc
STANDARD COMPLIANCE			
Photovoltaic Rapid Shutdown System	CSA C22.2#330, NEC 2014 – 2023		
EMC	FCC Part 15 Class B, IEC 61000-6-2, IEC 61000-6-3		
Safety	CSA C22.2#107.1, IEC 62109-1 (Class II safety), UL 1741		
Material	UL 94 V-0, UV Resistant		
RoHS	Yes		
Fire Safety	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	1000		Vdc
Dimensions (W x L x H)	129 x 155 x 30 / 5.07 x 6.10 x 1.18	129 x 165 x 45 / 5.07 x 6.49 x 1.77	mm / in
Weight	720 / 1.6	790 / 1.74	gr / lb
Input Connector	MC4		
Input Wire Length	0.1 / 0.32		m / ft
Output Connector	MC4		
Output Wire Length	(+) 2.3, (-) 0.10 / (+) 7.54, (-) 0.32		m / ft
Operating Temperature Range ⁽³⁾	-40 to +85		°C
Protection Rating	IP68 / NEMA6P		
Relative Humidity	0 – 100		%

(1) The Rated Power of the module at STC will not exceed the power optimizer's Rated Input DC Power. Modules with up to +5% power tolerance are allowed.
(2) The Maximum Input Short Circuit Current is adjusted for worst case conditions of ambient temperature, irradiance, bifacial gain, and so on, in accordance with NEC and CSA.
(3) Power derating is applied for ambient temperatures above +85°C / +185°F for U650 and for ambient temperatures above +75°C / 167°F for U650B. Refer to the [Power Optimizers Temperature Derating](#) technical note for details.

PV System Design Using a SolarEdge Inverter ⁽⁴⁾		SolarEdge Home Wave / Hub Single Phase	Three Phase for 208V Grid	Three Phase for 277/480V Grid	Units
Minimum String Length	U650	8	10	18	
(Power Optimizers)	U650B	6	8	14	
Maximum String Length (Power Optimizers)		25		50 ⁽⁵⁾	
Maximum Usable Power Delivered per String		5700	6000	12,750	W
Maximum Allowed Connected Power per String ⁽⁶⁾⁽⁷⁾	Inverters with Rated AC Power ≤ 5700W	Per the inverter's maximum input DC power ⁽⁸⁾	One string: 7200 Two strings or more: 7800	15,000	W
	Inverters with Rated AC Power of 6000W	5700			
	Inverters with Rated AC Power ≥ 7600W	6800, only when connected to at least two strings			
Parallel Strings of Different Lengths or Orientations		Yes			

(4) It is not allowed to mix U650 or U650B Power Optimizers with P-series Power Optimizers in new installations in the same string.
(5) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.
(6) For the 208V grid, the maximum is permitted only when the difference in connected power between strings is 1,000W or less.
(7) For the 240V or 277/480V grids, the maximum is permitted only when the difference in connected power between strings 2,000W or less.
(8) Refer to the [Single String Design Guidelines](#) application note for more details.

INSULATION-PIERCING TAP CONNECTORS CONECTORES DE DERIVACIÓN QUE PERFORAN EL AISLAMIENTO

Installation Instructions:



Warning

Improperly installed electrical wiring can be dangerous and cause electrical fires. The connector chosen must be sized to the wires being used. Consult local building code before doing any electrical work. For assistance, refer to an instructional book or consult a qualified electrician.



Warning

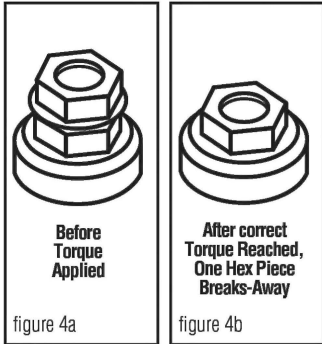
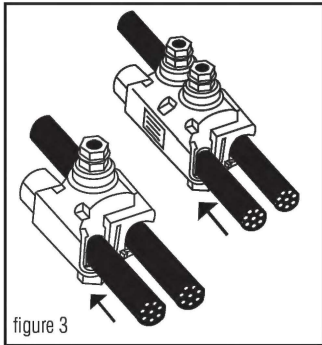
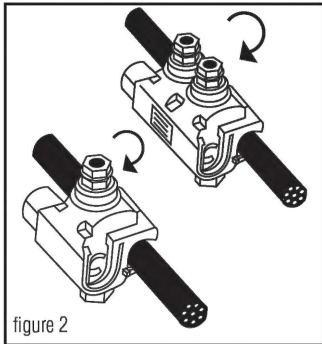
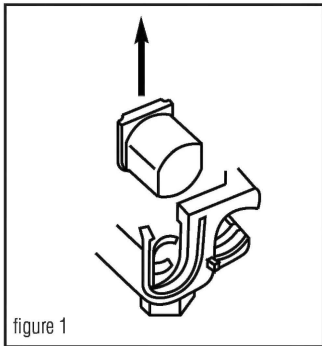
Contact with electricity can cause serious injury or death. Use on insulated cable only. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2)]. Consult factory for other insulation types]. If the installation is to be made on an energized run, the tap conductor must be under no load and must not be grounded. Use electrically insulated gloves. De-energize the run cable if there are any questions of these conditions being met.

- Determine the direction for the tap conductor to exit and discard one end cap. **See figure 1.**
- Position the main (or feeder) side of the connector around the run cable and tighten the bolt finger tight. **See figure 2.** If required, loosen the bolt slightly to allow the connector to open completely. **DISASSEMBLY NOT RECOMMENDED.** The plastic "Turbo" spacer must be under no load and must not be grounded. Use electrically insulated gloves. De-energize the run cable if there are any questions of these conditions being met.
- Cut the end of the tap cable squarely. **DO NOT STRIP CABLE INSULATION.**
- Insert the tap cable into the tap side of the connector until it is seated in the remaining end cap. **See figure 3.**
- Continue tightening the torque regulating bolt with a standard box or socket wrench until the torque regulating piece breaks away. If the connector has two (2) assembly bolts, alternately tighten until the hexagonal torque devices break away. **See figures 4a & 4b.** Note that the plastic "turbo" spacer on the side will also break. To make the installation even easier and to relieve torque from the cables, a second wrench can be used on the hexagonal piece on the bottom of the connector.

DO NOT use gripping type pliers, pipe, open ended or adjustable wrenches as these may damage the hexagonal torque regulating device. A torque wrench is not required.

MAKE SURE ONLY THE TOP HEXAGONAL TORQUE DEVICE OF THE BOLT HEAD IS USED FOR ASSEMBLY. THE SECOND HEX PIECE [CLOSER TO THE BODY OF THE CONNECTOR] IS USED FOR DISASSEMBLY.

Note: The torque regulating bolt ensures the correct torque is applied to the conductors without using a torque wrench. Important information such as run and tap ranges, voltage ratings and material/temperature ratings is marked on the connector.



Instalación Instrucciones:



Advertencia

Los cables eléctricos mal instalados pueden ser peligrosos y provocar incendios. El conector escogido debe ser de un tamaño adecuado para los cables que se utilicen. Consulte los códigos de construcción locales antes de efectuar trabajos eléctricos. Si necesita ayuda, consulte un libro de instrucciones o consulte con un electricista capacitado.



Advertencia

Use sólo en cable aislado. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2)]. Consulte con la fábrica para obtener información sobre otros tipos de aislamiento]. Si se va a hacer la instalación sobre un cable con corriente el conductor derivado debe estar libre de carga y no debe estar aterado. Use guantes con aislamiento eléctrico. Quite le la corriente al cable del cual se hace la derivación si no se pueden cumplir estas condiciones. El contacto con electricidad puede producir lesiones graves o mortales.

- Determine la dirección en la que el conductor derivado saldrá y deseche la tapa terminal sobrante. **Vea la ilustración 1.**
- Coloque el lado principal (o de alimentación) del conector alrededor del cual se hace la derivación y apriete firmemente el dedo del perno. **Vea la ilustración 2.** Si hace falta, afloje el perno ligeramente para permitir que el conector se abra completamente. **NO ES RECOMENDABLE DESARMAR EL CONECTOR.** El espaciador "Turbo" de plástico mantiene al conector abierto, lo cual facilita la instalación y asegura que las conexiones se hagan correctamente.
- Corte el extremo del cable de derivación perpendicularmente a su eje. **NO PELE EL AISLAMIENTO DEL CABLE.**
- Inserte el cable de derivación en el lado de derivación del conector hasta que tope contra la tapa terminal que queda. **Vea la ilustración 3.**
- Continué apretando este perno que regula la torsión con una llave estándar o de cubo hasta que la pieza que regula la torsión se parta y se separe. Si el conector tiene dos (2) pernos de ensamblaje, apriéte los alternativamente hasta que el dispositivo de regulación de torció se parta. **Vea la ilustración 4a y 4b.** Observe que el espaciador "turbo" de plástico en el costado también se fracturará. Para hacer esta instalación aún más fácil y para aliviar la torsión de los cables, se puede usar una segunda llave sobre la pieza hexagonal al fondo del conector.

NO USE alicates de presión, llaves de turbo, llaves comunes o ajustables ya que éstas pueden dañar el dispositivo hexagonal que regula la torsión. No se requiere una llave de torsión.

ASEGÚRESE QUE SE USE, PARA EL ENSAMBLADO, SÓLO EL DISPOSITIVO SUPERIOR DE REGULACIÓN DE TORSIÓN DE LA CABEZA DEL PERNO. LA SEGUNDA PIEZA HEXAGONAL (LA MÁS CERCANA AL CUERPO DEL CONECTOR) SE USA SÓLO PARA DESARMAR EL CONECTOR.

Nota: El perno regulador de torsión garantiza la aplicación de la torsión correcta a los conductores sin usar una llave de torsión. La información importante de longitud de cable pelado y de toma, las clasificaciones de materiales y temperatura está marcada en el conector.

B-TAP[®] INSULATION PIERCING TAP CONNECTORS TORQUE AND CURRENT RATINGS

(Solid and/or Stranded)

CATALOG#	MAIN	TAP	NOMINAL TORQUE	TAP CURRENT RATING (IN AMPS)*
BTC2/0-14	2/0-4	10-14*	80 IN. LBS.	40
BTC1/0-10	1/0-8	2-10**	80 IN. LBS.	130
BTC4/0-10	4/0-3	2-10***	125 IN. LBS.	130
BTC4/0-6	4/0-2	1/0-6	160 IN. LBS.	170
BTC4/0-2	4/0-2	4/0-2	160 IN. LBS.	260
BTC250-6	250-4	4/0-6	160 IN. LBS.	260
BTC250-4	250-1	3/0-4	160 IN. LBS.	225
BTC250-2	250-1/0	4/0-2	160 IN. LBS.	260
BTC350-1/0	350-1/0	350-1/0	330 IN. LBS.	350
BTC500-4	500-2/0	4/0-4	330 IN. LBS.	260
BTC500-1/0	500-4/0	350-1/0	330 IN. LBS.	350
BTC500-14	750-3/0	10-14 +	80 IN. LBS.	40
BTC750-250	750-250	500-250	330 IN. LBS.	430

+10-14 Cu SOLID/STRANDED; 10-12 Al SOLID/STRANDED

++2-10 Cu SOLID/STRANDED; 2-10 Al STRANDED

+++2-10 Cu SOLID/STRANDED; 2-8 Al STRANDED

++++10-14 Cu SOLID/STRANDED; 10-12 Al STRANDED

Full line is 600V dual-rated, 194°F(90°C)

* Based on NEC Table 310-16 1996 (Not more than 3 insulated conductors in a raceway at ambient temperature of 30° C) for the largest tap wire size.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



ADVERTENCIA: Cáncer y Daño Reproductivo - www.P65Warnings.ca.gov.

One year limited warranty. See idealind.com for more information.

Garantía limitada de un año. Visite www.idealind.com para obtener detalles de la garantía.



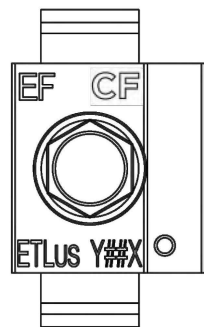
RATINGS

Fire Rating	Class A* and B** System Fire Rating
Max System Voltage	1500 VDC
Max Fuse Rating	40A
Certification	Conforms to UL STD 2703 and UL SUBJECT 2703A
Warranty	25 Year Material and Workmanship
UL 2703 Markings	Markings are located on End Clamp
Roof Pitch	1/4:12 – 21:12
UL 2703 Allowable Design Load Rating	10 psf downward, 5 psf upward, and 5 psf lateral
Max Module Size	25.6 sqft
Module Orientation	Portrait or Landscape
Multiple use Rated Components (Position Independent)	End Clamp, Mid Clamp, Frame MLPE Mount and MLPE Mount
UL 2703A Smart Foot Ratings	- Steep Slope Ratings applicable for Asphalt Shingle roofs with slopes 2:12 and up - Low Slope Ratings applicable for Roll Roofing (Rolled Comp) roofs with slopes 1:12 and up - Low Slope Ratings applicable for Modified Bitumen (Mod-Bit) roofs with slopes 1/4:12 and up

*Class A System fire rating with Steep and Low Slope roofs and Type 1, 2, 29 and 38 PV modules with no skirt required. Class A System fire rating with Steep Slope Roofs and Type 4 and 5 modules with south edge skirt required. Any roof-to-module gap is permitted. This rating is applicable with any roof attachment.

**Class B System fire rating with Steep Slope roofs and Type 4 and 5 modules, no skirt required. Any roof-to-module gap is permitted. This rating is applicable with any roof attachment.

UL 2703 MARKING EXAMPLE:



5028986, 5017913
CONFORMS TO UL STD 2703



MARKINGS
LOCATED ON
END CLAMP

TORQUE SPECIFICATIONS

Component	Torque (in-lb)	Notes
Lag Screw	N/A	Fully Seat. Use visual indicator of the black EPDM ring around the bonded washer for torquing.
Mid-Clamp	144	
End-Clamp	144	
Rail Clicker Leveling Bolt	144	Pre-torqued upon delivery. Applies to Tile Hook and L-Footer/Clicker
Hook Height Bolt	N/A	Lightly clamp hook to flush with top of next tile row
Ground Lug	N/A	Refer to specific ground lug manufacturer's installation manual
MLPE Clip	144	
MLPE Mount	144	

RATINGS



GF-1®

COMPLETE MOUNT & FLASHING ASSEMBLY

GF-1 is our most versatile solution for composition shingle roofs. The flashing installs with a single fastener for a quick and easy installation. When the GF-1 Flashing with Grommet is paired with an EcoFasten compression bracket, a watertight seal is created, maintaining the integrity of the roof.

FEATURES & BENEFITS

- Patented watertight technology
- Installs without removing shingles
- One lag bolt for a single-penetration attachment point
- Compatible with a variety of EcoFasten compression brackets
- Florida Product Approved for any combination of 8"x12" GF-1 flashing with the ClickFit L-foot & Lag Screw



VERSATILE WATERTIGHT MOUNT THAT INSTALLS IN SECONDS



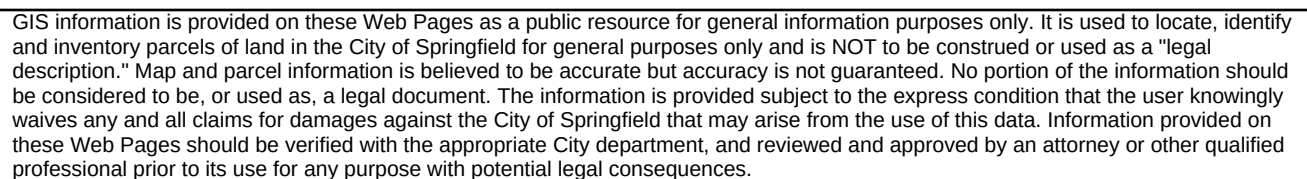
V 88
722



722







082500018
BRUNTON GEORGIEANNA
114 MARENGO PARK
SPRINGFIELD, MA 01108

012250047
CHERISCLAIR CHRISTIAN &
129 BELLEVUE AVE
SPRINGFIELD, MA 01108

012250035
COLSON GARY M
132 BELLEVUE AVE
SPRINGFIELD, MA 01108

082500020
GALVIN MEIYEH C & PAUL F
126 MARENGO PARK
SPRINGFIELD, MA 01108

012250043
MARTINEZ ANA & NANCY
149 BELLEVUE AVE
SPRINGFIELD, MA 01108

012250045
SWAN FRED ALLEN &
137 BELLEVUE AVE
SPRINGFIELD, MA 01108

082500019
TAI THI M
120 MARENGO PK
SPRINGFIELD, MA 01108

012250039
TROCZYNSKI KATHY E
146 BELLEVUE AVE
SPRINGFIELD, MA 01108

012250041
TROCZYNSKI KATHY E
146 BELLEVUE AVE
SPRINGFIELD, MA 01108

012250037
VALDEZ RODOLFO & ANNE
140 BELLEVUE AVE
SPRINGFIELD, MA 01108



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 238 Sumner Ave Springfield MA 01108

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST



APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**



PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.



RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.



PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*

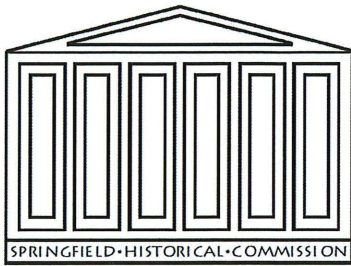


LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <i>Forest Park Heights</i>	DECISION:
DATE RECEIVED: <i>November 4, 2025</i>	DECISION DATE:
HEARING DATE: <i>November 20, 2025</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>November 6, 2025</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>November 6, 2025</i>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 238 Sumner Ave Springfield MA 01108

APPLICATION TYPE Certificate of Appropriateness



CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.



CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.



CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).



ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.



PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.



PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.



MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).



SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00).



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 238 Sumner Ave Springfield MA 01108		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: Real Estate Investments Northeast, LLC		
OWNER ADDRESS: 900 Riverdale St Ste 153 West. Spr. MA 01089 ☐ Check box if same as property address		
OWNER PHONE NUMBER: 413-316-5314	REPRESENTATIVE/CONTRACTOR NAME: Rich - Cedar Falls Construction	
OWNER EMAIL ADDRESS: reinortheast@outlook.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER:	
PROPERTY CODE: 1128P-0056	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Replacement of all windows with new replacement windows. 2nd floor bathtub surround full size window--replace with smaller stationary/picture window (same width as existing, but 12-18 inches high). Siding around the window will be patched with same kind wood material, same size, same style--to look seamless as the rest of the windows and trim around them.		PROPOSED MODIFICATIONS (Please check all that apply) ☒ Windows (see Page 3) ☐ Doors (see Page 4) ☒ Siding (see Page 5) ☐ Roofing (see Page 6) ☐ Solar (see Page 6) ☐ Signs (see Page 7) ☐ Heat Pumps (see page 7) ☐ Paint (see Page 8) ☐ Renovations (e.g. Porches) (see Page 8) ☐ New Construction (all of the above) ☐ Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

☒ Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

Dyachuk

PROPERTY OWNER'S SIGNATURE

11/5/2025

DATE

WINDOWS

☒ Check box indicating that you are submitting an order sheet with renderings/brochure of the proposed windows.

☒ Check box indicating that you are submitting photographs of the existing windows.

☒ Check box indicating that you are aware of the City's Window Guidelines (click [here](#)).

Will the Dimensions of the Windows Change: ☒ Yes (Please Provide Details Below Under Additional Information) ☐ No

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE CURRENT WINDOWS:

The existing windows appear to be extremely old and consist of single pane glass. These are not insulated windows, and have extreme signs of weathering. Most windows have developed gaps that previous owners have attempted to fill with caulking to attempt to seal drafts. Most windows do not open, many have weight ropes ripped or missing. Many window sills have rotted wood at the bottom. Some windows do not have storm windows. Several windows are missing entire sashes leaving rooms completely open to the elements. Some sashes have cracked glass also. Some windows are missing parts of locking mechanisms. Stained glass window has sagged and few pieces of glass are missing letting rain water through which has caused wood rot at the bottom of the window including the wall.

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE WINDOWS:

Considering the existing conditions of the windows and great difficulty in rebuilding existing windows as well as tremendous cost and time to restore such windows, which would remain single pane windows, we wish to propose to upgrade the home with brand new replacement windows. In addition, the cost of heating would create an ongoing financial hardship for us also due to the original windows lacking the modern energy efficiency of new windows. Beautiful new windows will not only make the exterior of the home look better but also provide the comfort and safety for occupants, since the windows will open smoothly, and tempered glass will be installed in bathrooms and staircase as required by code.

The proposed window will be Tan in color to nicely fit the historical color scheme as well as the trim color on the house, while window vinyl material being tan throughout, instead of painted, will ensure lasting longevity of the color for decades to come.

NUMBER OF WINDOWS TO BE REPLACED/ADDED:		33
NEW WINDOW MANUFACTURER:		Simonton 5500 Reflections
MODEL NUMBER(S):		5500
EXISTING		PROPOSED
MATERIAL (e.g. wood, vinyl, aluminum, etc):	wood	tan vinyl
EXTERNAL COLOR(S) (e.g. black, white, etc):	green, tan, some unpainted wood	tan
GRID PLACEMENT (Interior or Exterior):	no grids, one over one	same as existing
GRID PATTERN (e.g. two-over-two; six-over-one, etc):	none	none
WINDOW STYLE(S) (e.g. double-hung, etc):	double hung	double hung
GLASS TYPE(S) (e.g. single-pane, double-pane, etc):	single pane	double pane

ADDITIONAL INFORMATION:

All windows will remain the same size, keeping all original trim inside and outside. Windows are replacement windows style. NOTE: 2nd floor bathtub surround currently has a large, full size window in the shower. Due to the location being exposed to water and prone to rot and leaks and mold, we are proposing installing a smaller stationary/picture window up higher so direct water spray doesn't affect it. Window width will remain the same to minimize exterior siding repair. Window height to be reduced to 12-18 inches. Siding and trim around the window will be repaired to match the rest of the windows. Same kind of material, same pattern, same style will be matched for seamless repair.

SIDING

☐

Check box indicating that you are submitting an order sheet with renderings of the proposed siding.

☐

Check box indicating that you are submitting photographs of the existing siding.

NEW SIDING MANUFACTURER:	NA	
MODEL NUMBER(S):	NA	
BUILDING SIDE(S) FOR PROPOSED SIDING:	Greenleaf st facing	
	EXISTING	PROPOSED
MATERIAL (e.g. wood, stucco, brick, non-wood shingle):	wood	wood
SIDING PATTERN (e.g. clapboard, bevel etc):		
WINDOW CASING DIMENSIONS:		
DOOR CASING DIMENSIONS:		
CORNER BOARD DIMENSIONS:		
CORNICES DIMENSIONS:		
FRIEZE BOARD DIMENSIONS:		
SHUTTER DIMENSIONS:		

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING SIDING:

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE SIDING:

ADDITIONAL INFORMATION:

This page is to note a small siding patch/repair if the window size will be approved to replace full size window in the 2nd floor bathroom bathtub surround window with a smaller stationary window that will be installed higher up so the water doesn't spray onto it and cause rot damage and mold. If approved, siding will be repaired to seamlessly tie in and match existing siding. This is a repair of siding and trim.

Reflections

Vinyl Replacement
Windows

5050



 **SIMONTON**
Reflections®

Welcome the light of a new day.
Welcome the chance
to express your individuality.
Welcome a few extra bucks in your pocket
after the heating bill is paid.



From the warm, golden hues created by the morning sun to the soft, dreamlike silhouettes cast by the evening moon, your Simonton Reflections® 5050 windows enhance every moment of the day. Boasting classic designs and thoughtful features, Simonton Reflections® 5050 windows accent your home as well as your personality. Their sturdy, durable construction increases structural strength while improving weather resistance. And, with our advanced thermal efficiencies built right into the window, you can save a bundle on your heating and cooling costs. Which should make you more comfortable all year long.



Designing windows that deliver both structural strength and thermal protection is our job. Doing it with style is our pleasure.

Integrating classic designs, structural integrity, and thermal barriers into our windows is truly a labor of love. Because every time you gaze out your window upon a snowy backyard or witness a driving rainstorm from the comfort of your home, you'll know you made the right choice.

Attention to detail

Every inch of every Simonton Reflections® 5050 window is meticulously crafted with one thing in mind – you. Our classic, clean designs help you express your individual taste while maintaining their functionality.

- :: Traditional, streamlined options in Double Hung, Picture, 2-lite Slider, 3-lite Slider and Geometric styles provide unique and timeless looks
- :: Premium extruded vinyl is virtually maintenance free
- :: Tilt-in/lift-out sash promotes easy cleaning (Double Hung only)
- :: Choice of Colonial, Diamond, Prairie, and Perimeter grids give you the look you want

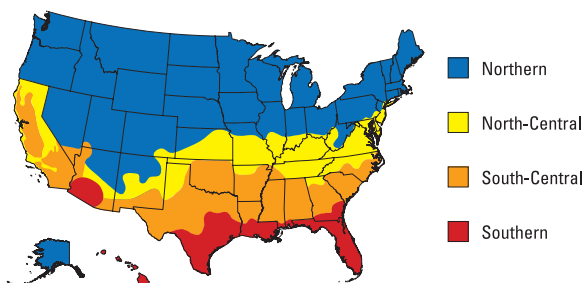


Energy savings



As an ENERGY STAR® partner, Simonton Windows® is committed to meeting the strict criteria of the U.S. Environmental Protection Agency to help conserve energy and reduce heating and cooling costs for all our customers. To ensure our windows and doors can be order to meet the regionally specific ENERGY STAR criteria, Simonton has developed

ENERGY STAR glass packages for each climate zone - Northern, North-Central, South-Central and Southern. These glass packages utilize insulating glass units with advanced Low E technology, an Argon gas fill and durable spacer systems that drastically reduce the transfer of heat and cold. Low E also helps block damaging ultraviolet rays, which can fade carpets, draperies and artwork.



Strength that performs



Utilizing the most advanced technology in North America, each Simonton Reflections® 5050 window is manufactured under our own stringent quality-control systems and then independently tested to the highest industry standards. Constructed from the finest materials, you'll get more than replacement vinyl windows. You'll get peace of mind.

- :: Fusion-welded frame and sash construction provides rigidity for increased strength and weather resistance
- :: Denny Clip™ pivot system maintains perfect alignment of the sash
- :: Stainless steel coil spring balance system never needs adjusting
- :: Choose standard single-strength or optional double-strength glass in tempered, obscure, or tinted styles

Thermal enhancements

You'll appreciate how the built-in thermal components work together in Simonton Reflections® 5050 products to help lower energy costs and provide year-round comfort for your home.

- :: Fin seal weatherstripping creates multiple barriers against air infiltration
- :: Lap-Lok® meeting rail overlaps and interlocks the top and bottom sash to create a tight and secure seal
- :: Optional ProSolar® soft coat Low E glass works in conjunction with an Argon gas fill to reduce heat loss in the winter and maintain air-conditioned air during the summer
- :: The optional Supercept™ spacer system delivers thermal performance and structural integrity to help maximize the performance of your window

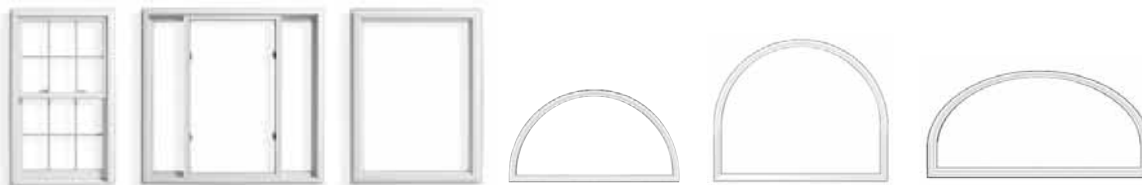


As you stand in front of your window, take solace in knowing we're standing behind it.

We know buying windows is a big investment. An investment you want protected. That's why we back all Simonton Reflections® windows and doors with a Double-Lifetime Limited Warranty covering vinyl, hardware, screens and insulating glass units. And, since all warranties are transferable, your windows add yet another great selling feature to any prospective home buyer.

Styles

Simonton Reflections® 5050 windows come in multiple designs, giving you the flexibility to express your unique taste and style. Available styles include Double Hung, 2-lite Slider, 3-lite Slider, Picture, Half-round, Half-round w/leg and Eyebrow w/leg.



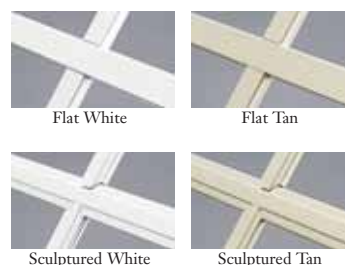
Standard Features

- | | | |
|---------------------------------|--|-------------------------------|
| :: Fusion-welded Frame and Sash | :: Single Cam Locks
(windows less than 28" wide) | :: Single-strength Glass |
| :: Raised Exterior Design | :: Dual Cam Locks
(windows 28" wide or greater) | :: 3/4" Insulating Glass Unit |
| :: Sloped Sill | :: Fin Seal Weatherstripping | :: Intercept® Spacer System |
| :: Extruded Lift Rails | :: Tilt-in/lift-out Sash | :: Rollformed Screen Frame |
| :: Air Lok™ | :: Stainless Steel Constant Force
3/4" Coil Spring Balance System | :: Fiberglass Screen Mesh |
| :: Lap-Lok® Meeting Rail | :: Denny Clip™ Pivot System | :: Lifetime Limited Warranty |
| :: Flush-mount Tilt Latches | | :: White Interior/Exterior |

Optional Upgrades

- | | |
|---|--|
| :: ProSolar® Soft Coat Low E Glass with an Argon Gas Fill | :: Colonial Grids available in Flat White or Tan, and Sculptured White or Tan |
| :: Supercept™ Spacer System | :: Diamond Grids available in Flat White or Tan |
| :: Double-strength Glass | :: Prairie and Perimeter Grids available in Flat White or Tan, and Sculptured White or Tan |
| :: Tempered, Obscure, or Tinted Glass | :: All grids come in standard 5/8" width. Sculptured White and Tan are also available in 1" width. |
| :: Dual Cam Locks
(windows 21" – 28" wide) | |
| :: Tan Interior/Exterior | |

Grid and Color Options



All this and a Simonton dealer nearby to help you, too.



Corporate Headquarters · 3948 Townsfair Way, Suite 200 · Columbus, Ohio 43219
www.simonton.com · 1-800-SIMONTON (1-800-746-6686)

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CUSTOMER COPY

QUOTE / ORDER #3430646

Date Entered: 11/4/2025

Date Printed: 11/4/2025

Printed By: Bill Bonini

SOLD TO:

KF Window remodelers

SHIP TO:

Kelly-Fradet Lumber #1
587 North Main St
East Longmeadow, MA 01028
(413) 785-1558

Phone:
Fax:

Phone:
Fax:

PO NUMBER

QUOTE NAME

PROJECT NAME

5050 TAN inserts

238 Sumner

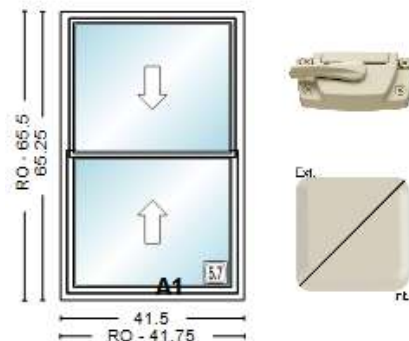
LineItem #	Qty.	Description	Unit Price	Ext. Price
100-1	1	5050 Reflections Double Hung 41.5" X 65.25"	\$310.06	\$310.06

RO:

41.75 x 65.5

Room ID:

Operation = Operating, Frame = Replacement, Ext.
Color = Tan, Int. Color = Tan, Glass Package =
Standard Glass Options, ProSolar Low E, Argon,
Intercept, 3/4"IGU, Glass Thickness = 3/32 in - 3/32
out SS, Upper = Annealed, Lower = Annealed,
Locks = 2, Tan, Cam, Air Latches = 1, Sill Extender,
Screen Coverage = Half, Fiberglass, Roll-Formed,
U-Factor = 0.3, SHGC = 0.29, VT = 0.52, STC = 0,
CPD Number = SBP-A-47-13030-00001, Meets
Energy Star Zones = None, DP = 25, AAMA,



Initials: _____

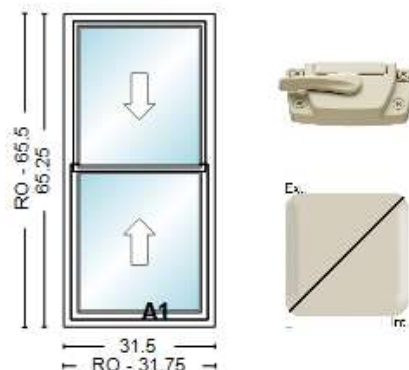
LineItem #	Qty.	Description	Unit Price	Ext. Price
200-1	6	5050 Reflections Double Hung 31.5" X 65.25"	\$286.66	\$1,719.96

RO:

31.75 x 65.5

Room ID:

Operation = Operating, Frame = Replacement, Ext.
Color = Tan, Int. Color = Tan, Glass Package =
Standard Glass Options, ProSolar Low E, Argon,
Intercept, 3/4"IGU, Glass Thickness = 3/32 in - 3/32
out SS, Upper = Annealed, Lower = Annealed,
Locks = 2, Tan, Cam, Air Latches = 1, Sill Extender,
Screen Coverage = Half, Fiberglass, Roll-Formed,
U-Factor = 0.3, SHGC = 0.29, VT = 0.52, STC = 0,
CPD Number = SBP-A-47-13030-00001, Meets
Energy Star Zones = None, DP = 30, AAMA, TDI =
WIN-1213, Florida Approval Code = 5167



Initials: _____

PO NUMBER

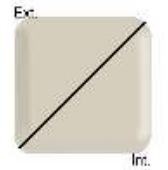
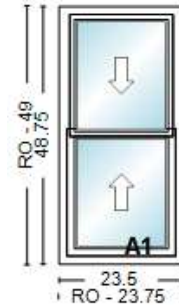
QUOTE NAME

PROJECT NAME

5050 TAN inserts

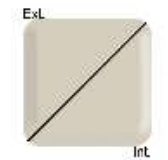
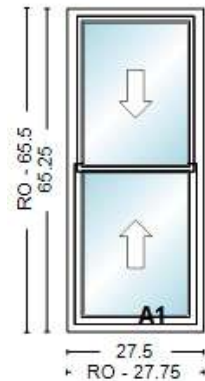
238 Sumner

LineItem #	Qty.	Description	Unit Price	Ext. Price
300-1	1	5050 Reflections Double Hung 23.5" X 48.75"	\$286.66	\$286.66
RO: Operation = Operating, Frame = Replacement, Ext. Color = Tan, Int. Color = Tan, Glass Package = Standard Glass Options, ProSolar Low E, Argon, Intercept, 3/4"IGU, Glass Thickness = 3/32 in - 3/32 Room ID: out SS, Upper = Annealed, Lower = Annealed, Locks = 1, Tan, Cam, Air Latches = 1, Sill Extender, Screen Coverage = Half, Fiberglass, Roll-Formed, U-Factor = 0.3, SHGC = 0.29, VT = 0.52, STC = 0, CPD Number = SBP-A-47-13030-00001, Meets Energy Star Zones = None, DP = 50, AAMA, TDI = WIN-1213, Florida Approval Code = 5167				



Initials: _____

LineItem #	Qty.	Description	Unit Price	Ext. Price
400-1	1	5050 Reflections Double Hung 27.5" X 65.25"	\$286.66	\$286.66
RO: Operation = Operating, Frame = Replacement, Ext. Color = Tan, Int. Color = Tan, Glass Package = Standard Glass Options, ProSolar Low E, Argon, Intercept, 3/4"IGU, Glass Thickness = 3/32 in - 3/32 Room ID: out SS, Upper = Annealed, Lower = Annealed, Locks = 1, Tan, Cam, Air Latches = 1, Sill Extender, Screen Coverage = Half, Fiberglass, Roll-Formed, U-Factor = 0.3, SHGC = 0.29, VT = 0.52, STC = 0, CPD Number = SBP-A-47-13030-00001, Meets Energy Star Zones = None, DP = 30, AAMA, TDI = WIN-1213, Florida Approval Code = 5167				



Initials: _____

PO NUMBER

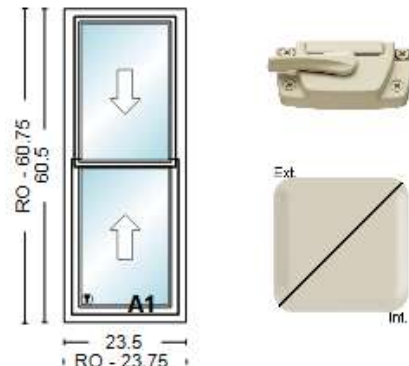
QUOTE NAME

PROJECT NAME

5050 TAN inserts

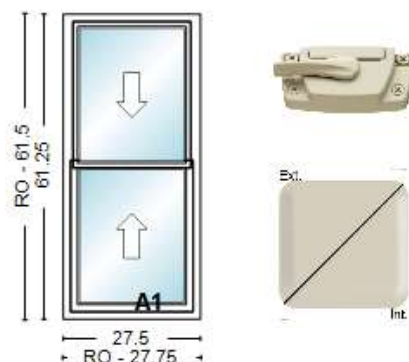
238 Sumner

LineItem #	Qty.	Description	Unit Price	Ext. Price
500-1	1	5050 Reflections Double Hung 23.5" X 60.5"	\$339.30	\$339.30
RO: 23.75 x 60.75 Room ID: Custom stairs				
Operation = Operating, Frame = Replacement, Ext. Color = Tan, Int. Color = Tan, Glass Package = Standard Glass Options, ProSolar Low E, Argon, Intercept, 3/4"IGU, Glass Thickness = 1/8 in - 1/8 out DS, Upper = Annealed, Lower = Tempered, Locks = 1, Tan, Cam, Air Latches = 1, Sill Extender, Screen Coverage = Half, Fiberglass, Roll-Formed, U-Factor = 0.3, SHGC = 0.29, VT = 0.51, STC = 0, CPD Number = SBP-A-47-13033-00001, Meets Energy Star Zones = None, DP = 50, AAMA, TDI = WIN-1213, Florida Approval Code = 5167				



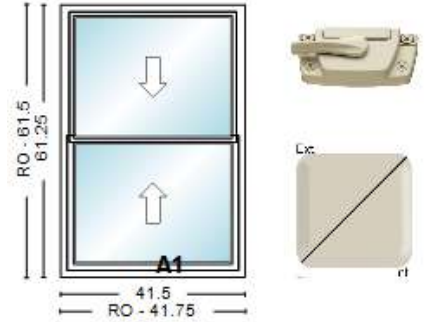
Initials: _____

LineItem #	Qty.	Description	Unit Price	Ext. Price
600-1	5	5050 Reflections Double Hung 27.5" X 61.25"	\$286.66	\$1,433.30
RO: 27.75 x 61.5 Room ID:				
Operation = Operating, Frame = Replacement, Ext. Color = Tan, Int. Color = Tan, Glass Package = Standard Glass Options, ProSolar Low E, Argon, Intercept, 3/4"IGU, Glass Thickness = 3/32 in - 3/32 out SS, Upper = Annealed, Lower = Annealed, Locks = 1, Tan, Cam, Air Latches = 1, Sill Extender, Screen Coverage = Half, Fiberglass, Roll-Formed, U-Factor = 0.3, SHGC = 0.29, VT = 0.52, STC = 0, CPD Number = SBP-A-47-13030-00001, Meets Energy Star Zones = None, DP = 50, AAMA, TDI = WIN-1213, Florida Approval Code = 5167				



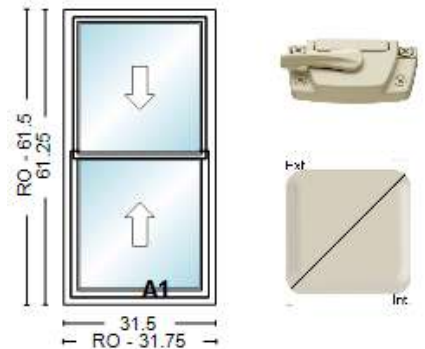
Initials: _____

LineItem #	Qty.	Description	Unit Price	Ext. Price
700-1	1	5050 Reflections Double Hung 41.5" X 61.25"	\$286.66	\$286.66
RO: Operation = Operating, Frame = Replacement, Ext. 41.75 x 61.5 Color = Tan, Int. Color = Tan, Glass Package = Room ID: Standard Glass Options, ProSolar Low E, Argon, Intercept, 3/4"IGU, Glass Thickness = 3/32 in - 3/32 out SS, Upper = Annealed, Lower = Annealed, Locks = 2, Tan, Cam, Air Latches = 1, Sill Extender, Screen Coverage = Half, Fiberglass, Roll-Formed, U-Factor = 0.3, SHGC = 0.29, VT = 0.52, STC = 0, CPD Number = SBP-A-47-13030-00001, Meets Energy Star Zones = None, DP = 35, AAMA, TDI = WIN-1213, Florida Approval Code = 5167				



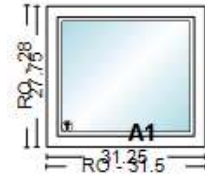
Initials: _____

LineItem #	Qty.	Description	Unit Price	Ext. Price
800-1	6	5050 Reflections Double Hung 31.5" X 61.25"	\$286.66	\$1,719.96
RO: Operation = Operating, Frame = Replacement, Ext. 31.75 x 61.5 Color = Tan, Int. Color = Tan, Glass Package = Room ID: Standard Glass Options, ProSolar Low E, Argon, Intercept, 3/4"IGU, Glass Thickness = 3/32 in - 3/32 out SS, Upper = Annealed, Lower = Annealed, Locks = 2, Tan, Cam, Air Latches = 1, Sill Extender, Screen Coverage = Half, Fiberglass, Roll-Formed, U-Factor = 0.3, SHGC = 0.29, VT = 0.52, STC = 0, CPD Number = SBP-A-47-13030-00001, Meets Energy Star Zones = None, DP = 50, AAMA, TDI = WIN-1213, Florida Approval Code = 5167				



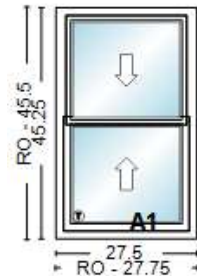
Initials: _____

LineItem #	Qty.	Description	Unit Price	Ext. Price
900-1	1	5050 Reflections Picture Window 31.25" X 27.75"	\$331.94	\$331.94
RO:		Operation = Fixed, Frame = Replacement, Ext. Color = Tan, Int. Color = Tan, Glass Package = Standard		
31.5 x 28		Glass Options, ProSolar Low E, Argon, Intercept,		
Room ID:		3/4"IGU, Glass Thickness = 1/8 in - 1/8 out DS,		
Custom		Tempered, Sill Extender, Screen Coverage = None,		
stairs		U-Factor = 0.27, SHGC = 0.3, VT = 0.55, STC = 0,		
		CPD Number = SBP-A-92-11887-00001, Meets		
		Energy Star Zones = None, DP = 50, AAMA, TDI =		
		WIN-1065, Florida Approval Code = 5177		



Initials: _____

LineItem #	Qty.	Description	Unit Price	Ext. Price
1000-1	1	5050 Reflections Double Hung 27.5" X 45.25"	\$332.41	\$332.41
RO:		Operation = Operating, Frame = Replacement, Ext. Color = Tan, Int. Color = Tan, Glass Package = Standard		
27.75 x 45.5		Glass Options, ProSolar Low E, Argon, Intercept, 3/4"IGU, Glass Thickness = 1/8 in - 1/8 out DS, Upper = Annealed, Lower = Tempered,		
Room ID:		Locks = 1, Tan, Cam, Air Latches = 1, Sill Extender, Screen Coverage = Half, Fiberglass, Roll-Formed,		
Custom		U-Factor = 0.3, SHGC = 0.29, VT = 0.51, STC = 0,		
3rd fl Temp		CPD Number = SBP-A-47-13033-00001, Meets		
Lower		Energy Star Zones = None, DP = 50, AAMA, TDI =		
		WIN-1213, Florida Approval Code = 5167		



Initials: _____

PO NUMBER

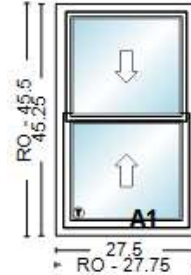
QUOTE NAME

PROJECT NAME

5050 TAN inserts

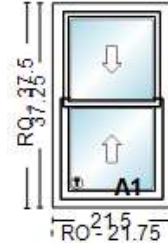
238 Sumner

LineItem #	Qty.	Description	Unit Price	Ext. Price
1100-1	7	5050 Reflections Double Hung 27.5" X 45.25"	\$332.41	\$2,326.87
RO: Operation = Operating, Frame = Replacement, Ext. Color = Tan, Int. Color = Tan, Glass Package = 27.75 x 45.5 Standard Glass Options, ProSolar Low E, Argon, Room ID: Intercept, 3/4"IGU, Glass Thickness = 1/8 in - 1/8 Custom out DS, Upper = Annealed, Lower = Tempered, 3rd fl Temp Locks = 1, Tan, Cam, Air Latches = 1, Sill Extender, Lower Screen Coverage = Half, Fiberglass, Roll-Formed, U-Factor = 0.3, SHGC = 0.29, VT = 0.51, STC = 0, CPD Number = SBP-A-47-13033-00001, Meets Energy Star Zones = None, DP = 50, AAMA, TDI = WIN-1213, Florida Approval Code = 5167				



Initials: _____

LineItem #	Qty.	Description	Unit Price	Ext. Price
1200-1	2	5050 Reflections Double Hung 21.5" X 37.25"	\$323.63	\$647.26
RO: Operation = Operating, Frame = Replacement, Ext. Color = Tan, Int. Color = Tan, Glass Package = 21.75 x 37.5 Standard Glass Options, ProSolar Low E, Argon, Room ID: Intercept, 3/4"IGU, Glass Thickness = 1/8 in - 1/8 Custom out DS, Upper = Annealed, Lower = Tempered, 3rd fl Temp Locks = 1, Tan, Cam, Air Latches = 1, Sill Extender, Lower Screen Coverage = Half, Fiberglass, Roll-Formed, U-Factor = 0.3, SHGC = 0.29, VT = 0.51, STC = 0, CPD Number = SBP-A-47-13033-00001, Meets Energy Star Zones = None, DP = 50, AAMA, TDI = WIN-1213, Florida Approval Code = 5167				



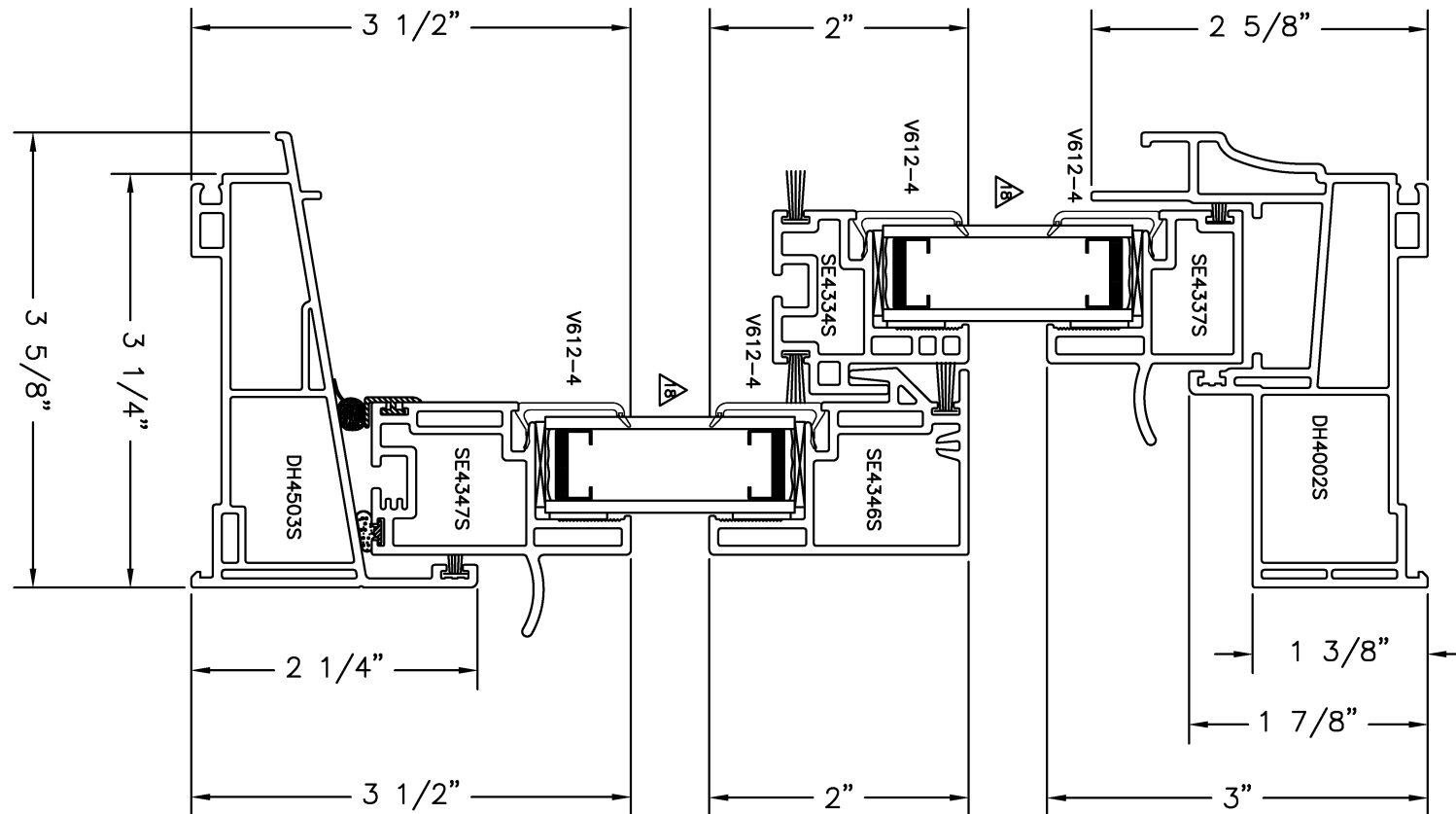
Initials: _____

33 Total Qty Units

SUB-TOTAL: \$10,021.04**Comment:****TOTAL TAX:** \$0.00**TOTAL LABOR:** \$0.00**TOTAL FREIGHT:** \$0.00**DIST/DLR DISC:** (\$0.00)**TOTAL:** \$10,021.04**DEPOSIT PAID:** (\$0.00)**AMOUNT DUE:** \$10021.04

Submitted by: _____ Accepted by: _____ Date: _____

REV. #	REVISIONS:	REVISED BY:	DATE:
14	UPDATED PROFILE DH4002S.	T.D.D.	02/15/06
15	REMOVED 4500 & 7300 FROM THE TITLE BLOCK.	T.D.D.	09/12/07
16	ADDED "GRAND ESTATES" TO THE SERIES IN THE TITLE BLOCK.	T.D.D.	08/20/08
17	CHANGED TOP & BOT SASH, LIFT RAIL ALUMINUM REINFORCEMENTS.	B.L.Z.	11/06/09
18	Replaced V551 with V612-4.	RTW	2/17/12



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FILE: 1436

MATERIAL:

RMS FINISH:

EXCEPT AS NOTED

ALLOY & TEMPER:

WEIGHT:

VOLUME:

SURFACE AREA:

PERIMETER:

FINISH TREATMENT:

Dimensional Tolerances
Unless Otherwise Specified

Decimals

Angles

.X ± .03

.XX ± .01

.XXX ± .005

0° ± 30 min.



1 Cochrane Avenue
Pennsboro, WV 26415

SIZE: DRAWING NO.:

A 1436

REV.:

18

DRAWN BY: DATE:

G.L.S. 07/10/98

CHECKED BY: DATE:

APPR'D BY: DATE:

SCALE:

FIT

SHEET:

1 of 1

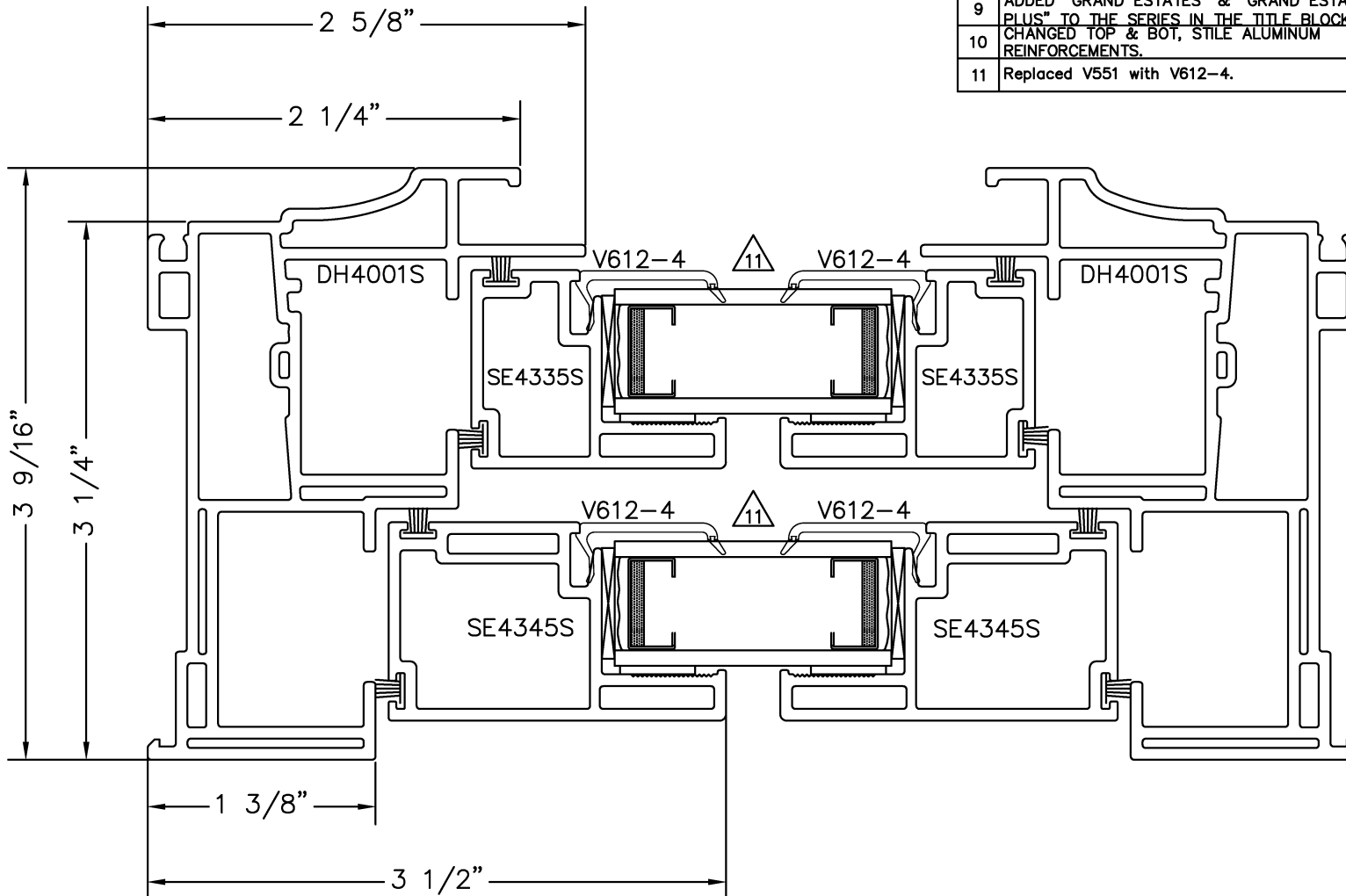
SERIES:

5050, 6100, 9400, PB, GRAND ESTATES - DH

TITLE:

VERTICAL ASSEMBLY DRAWING

REV. #	REVISIONS:	REVISED BY:	DATE:
7	UPDATED ENTIRE SASH SYSTEM	GLS	11-16-04
8	REMOVED 4500, 7300, AND 9200 FROM THE TITLE BLOCK.	T.D.D.	09/12/07
9	ADDED "GRAND ESTATES" & "GRAND ESTATES PLUS" TO THE SERIES IN THE TITLE BLOCK.	T.D.D.	08/20/08
10	CHANGED TOP & BOT, STILE ALUMINUM REINFORCEMENTS.	B.L.Z.	11/06/09
11	Replaced V551 with V612-4.	RTW	06/12/12

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FILE: 0604

MATERIAL:

RMS FINISH:

EXCEPT AS NOTED

ALLOY & TEMPER:

WEIGHT:

VOLUME:

SURFACE AREA:

PERIMETER:

FINISH TREATMENT:

Dimensional Tolerances
Unless Otherwise Specified

Decimals

Angles

.X ± .03

.XX ± .01

.XXX ± .005

0° 30 min.

**SIMONTON®**
W I N D O W S1 Cochrane Avenue
Pennsboro, WV 26415

SIZE: DRAWING NO.:

A 0604

REV.:

11

DRAWN BY:

GLS

DATE:

05/08/97

CHECKED BY:

DATE:

SCALE:

FIT

SHEET:

1 of 1

APPRVD BY:

DATE:

SERIES:

5050, 53, 61, 94, PB, PUG, GR. EST, G.E. PLUS - DH

TITLE:

HORIZONTAL ASSEMBLY

HEARTWOOD WINDOW RESTORATION

PO Box 114 1605 Mohawk Trail

Charlemont, MA 01339

Jade L. Mortimer 413-625-8680

Jade@Heartwoodrestoration.com

Dmitriy Dyachuk
Springfield, MA

October 23, 2025

Project: Window Sash Restoration

~PROPOSAL~

- Remove sash and transport to Heartwood's shop
- Existing storm windows to remain in place or cover in 6 mil plastic
- Stamp window location at side of sash
- Mark location of glass to assure reinstallation in same location
- Remove all glass and glazing putty using a steam heat method
- Clean glass
- Remove all paint to bare wood using a dry heat method
- Make minor repairs to wood
- Apply a 50/50 blend of boiled linseed oil/turpentine to entire sash for conditioning purposes
- Set glass with a traditional linseed oil glazing putty
- Apply one coat of Ben Moore oil based primer
- Apply two coats of Ben Moore oil based finish paint at the interior and exterior of sash
- Clean glass
- Transport and install sash with new rope where necessary

This proposal reflects pricing for sash only, it does not include frame, trim, sill or jamb.

Six over One	Double Hung Sash Set	\$ 1,575
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Contingencies

Significant repairs/per hour	\$ 70
Weather stripping/per opening	135

























































































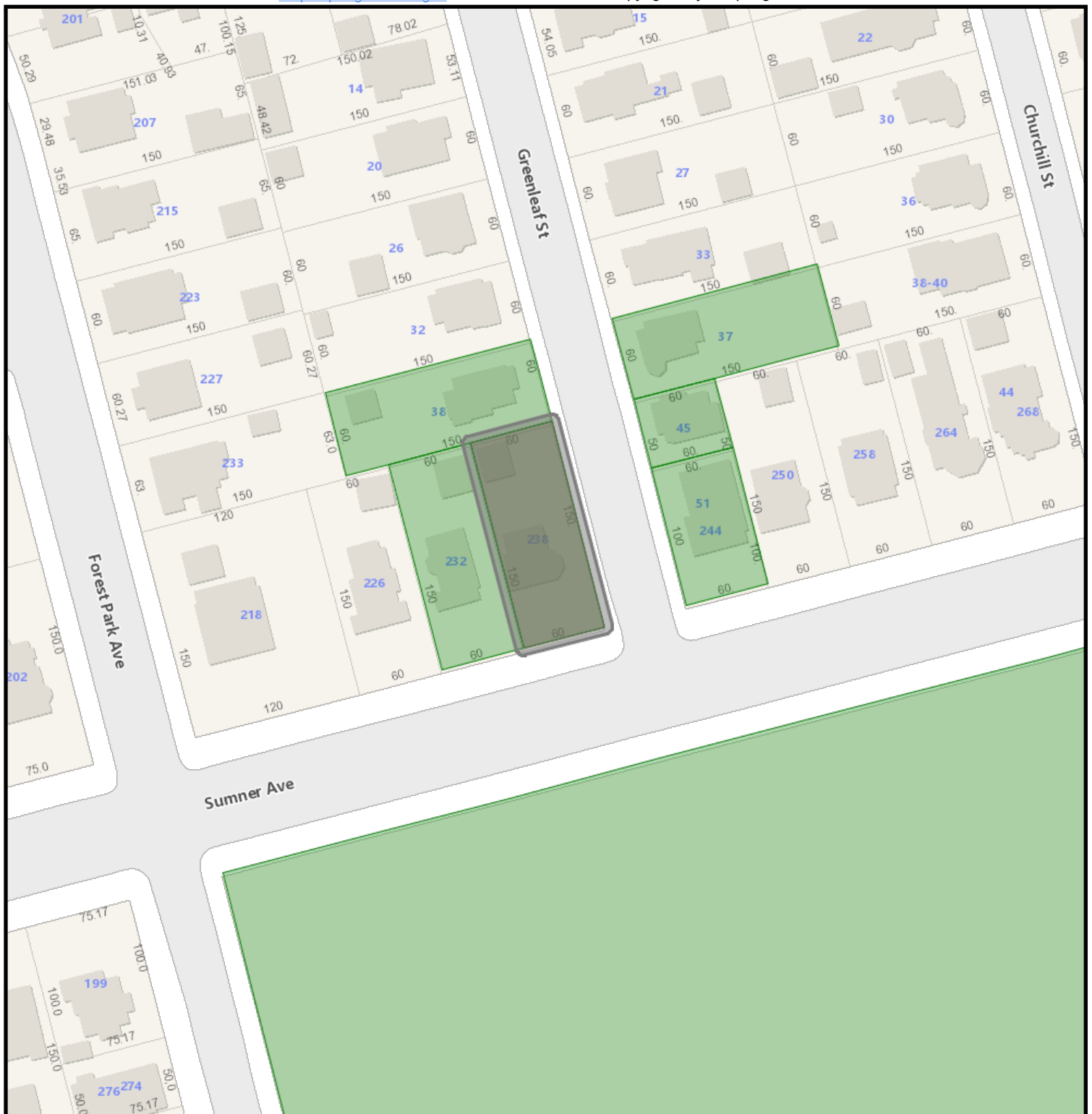












238 Sumner Avenue GIS

11/5/2025 9:16:45 AM

Scale: 1"=100'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

060400013
FAOUR JAHAIRA E
38 GREENLEAF ST
SPRINGFIELD, MA 01108

112800056
GIBSON ROBERT L
238 SUMNER AVE
SPRINGFIELD, MA 01108

112800054
LOZADA EDUARDO & MARIA
232 SUMNER AVE
SPRINGFIELD, MA 01108

060400019
OWUSU EMMANUEL S
45 GREENLEAF ST
SPRINGFIELD, MA 01108

112800460
SPRINGFIELD CITY OF
36 COURT ST
SPRINGFIELD, MA 01103

060400021
STILES JEFFREY S
37 GREENLEAF ST
SPRINGFIELD, MA 01109

112800057
WANG BRIAN XIAOMAO &
2334 W. MAYA WAY
PHOENIX, AZ 85085



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 104 Bowdoin St Springfield MA 01109

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST

☐

APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**

☐

PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.

☐

RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.

☐

PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. If available, please bring physical samples of the product to the meeting date.

☐

LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <u>McKnight</u>	DECISION:
DATE RECEIVED: <u>October 29, 2025</u>	DECISION DATE:
HEARING DATE: <u>November 20, 2025</u>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <u>November 6, 2025</u>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <u>November 6, 2025</u>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 104 Bowdoin Street QPS 10/29/2025

APPLICATION TYPE (Select Application Type)



CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.



CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.



CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).



ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.



PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.



PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.



MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).



SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00).



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 104 Bowdoin St Springfield MA 01109		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: MAUDELINE DUVERT		
OWNER ADDRESS: ☒ Check box if same as property address		
OWNER PHONE NUMBER: 781-4134-2679	REPRESENTATIVE/CONTRACTOR NAME: Mark Arena A Signature Fence	
OWNER EMAIL ADDRESS: duvert20@gmail.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: 413-232-9125	
PROPERTY CODE: 01680-0017	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: asignaturefence@comcast.net	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): New wooden privacy fencing		PROPOSED MODIFICATIONS (Please check all that apply) ☐ Windows (see Page 3) ☐ Doors (see Page 4) ☐ Siding (see Page 5) ☐ Roofing (see Page 6) ☐ Solar (see Page 6) ☐ Signs (see Page 7) ☐ Heat Pumps (see page 7) ☐ Paint (see Page 8) ☐ Renovations (e.g. Porches) (see Page 8) ☐ New Construction (all of the above) ☒ Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

☐ Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

Maudeline Duvert
PROPERTY OWNER'S SIGNATURE

10/29/2025
DATE

OTHER PROJECTS

EXISTING CONDITIONS/DESCRIPTION

PROPOSED CONDITIONS/DESCRIPTION

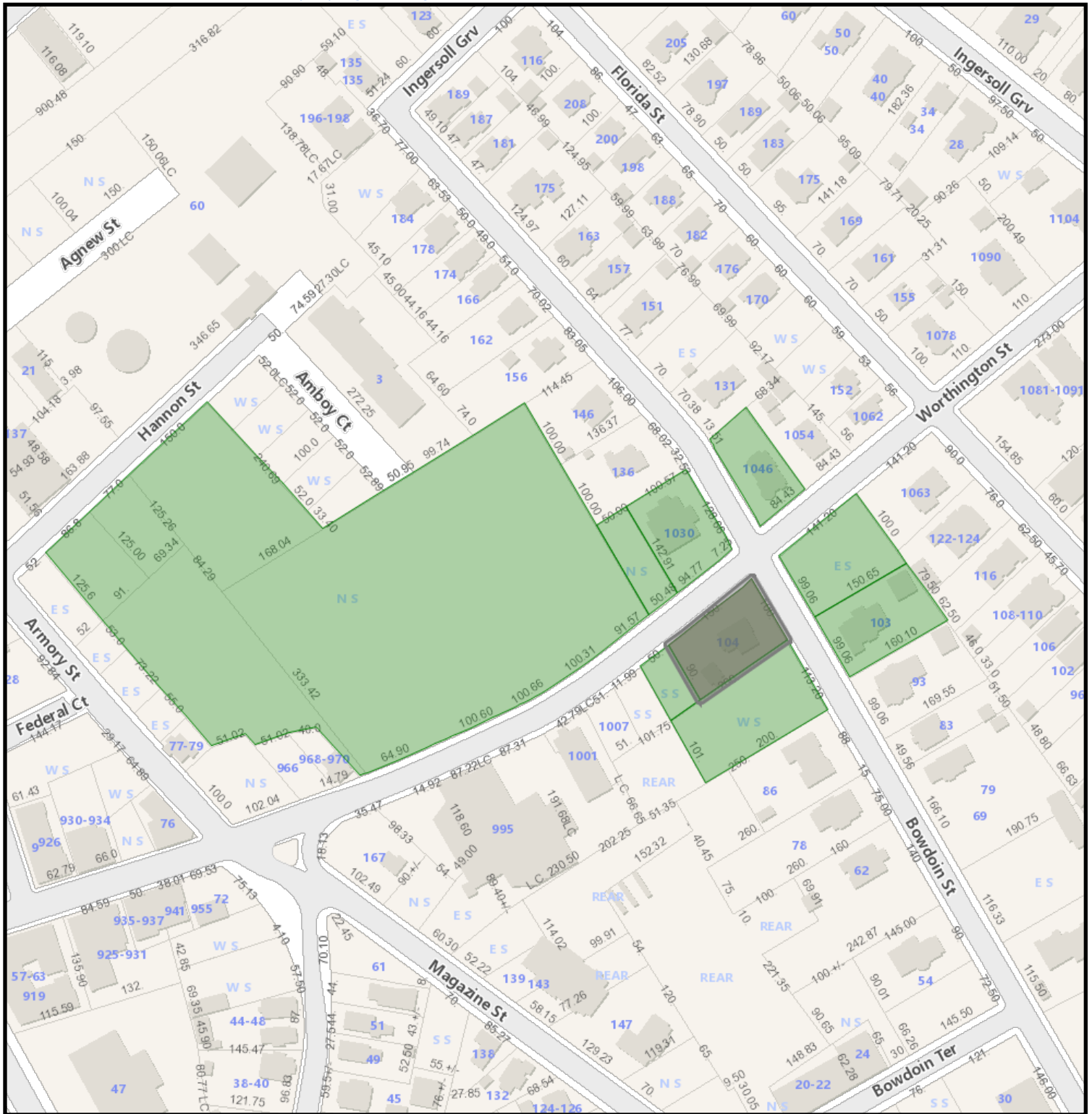
I installed new "Fence" is an excellent step
Toward ensuring the safety for my two
dogs and visiting children.

The new Fence cost \$8000⁰⁰
To remove the fence and reposition that
can cost a lot money.









104 Bowdoin Street GIS Map

10/29/2025 1:49:36 PM

Scale: 1"=200'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

016800052
CRUZ-VELEZ LIZBETH
103 BOWDOIN ST
SPRINGFIELD, MA 01109

016800054
CRUZ-VELEZ LIZBETH
103 BOWDOIN ST
SPRINGFIELD, MA 01109

016800017
DUVERT MAUDELINE
104 BOWDOIN ST
SPRINGFIELD, MA 01109

016800015
GUIDEWIRE INC
551 E COLUMBUS AVE
SPRINGFIELD, MA 01105

125350186
IGLESIA EVANGELISTICA
19 HICKOX ST
SPRINGFIELD, MA 01104

125350125
KIBBE HOUSE RESTORATION
1030 WORTHINGTON ST
SPRINGFIELD, MA 01109

125350127
KIBBE HOUSE RESTORATION
1030 WORTHINGTON ST
SPRINGFIELD, MA 01109

125350129
ROSADO RAFAEL
1046 WORTHINGTON ST
SPRINGFIELD, MA 01109

125350124
WESTERN MASSACHUSETTS
P O BOX 270
HARTFORD, CT 06141



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 257 Pine Street

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

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For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <u>Maple Hill</u>	DECISION:
DATE RECEIVED: <u>November 10, 2025</u>	DECISION DATE:
HEARING DATE: <u>December 4, 2025</u>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <u>November 20, 2025</u>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <u>November 20, 2025</u>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 257 PINE ST

APPLICATION TYPE (Select Application Type)

☒

CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.

☐

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☐

SECTION 106 REVIEW

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Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00).



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 257 PINE ST		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: FREDDY LEWIS		
OWNER ADDRESS: ☒ Check box if same as property address		
OWNER PHONE NUMBER: 4139496224	REPRESENTATIVE/CONTRACTOR NAME: SUNRUN/ROBERT J DECKER IV IV	
OWNER EMAIL ADDRESS: FREDLEW@ME.COM	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: 559-240-9370	
PROPERTY CODE: 09715-0127	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: PIONEERVALLEYPERMITS@SUNRUN.COM	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): INSTALLATION OF ROOFTOP SOLAR SYSTEM # OF PANELS 56 22.68KW 1 FRANKLIN BATTERY TO BE INSTALLED 15KW TRENCHING REQ 45FT IN DIRT MATERIAL		PROPOSED MODIFICATIONS (Please check all that apply) ☐ Windows (see Page 3) ☐ Doors (see Page 4) ☐ Siding (see Page 5) ☐ Roofing (see Page 6) ☒ Solar (see Page 6) ☐ Signs (see Page 7) ☐ Heat Pumps (see page 7) ☐ Paint (see Page 8) ☐ Renovations (e.g. Porches) (see Page 8) ☐ New Construction (all of the above) ☐ Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

☐ Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

X Signed by:

6861C8BA3799481...
PROPERTY OWNER'S SIGNATURE

10/30/2025
DATE

ROOFING		
☐ Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.		
☐ Check box indicating that you are submitting photographs of the existing roofing.		
EXISTING		PROPOSED
ROOF STYLE (e.g. gable, hip, mansard, etc):		
MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):		
PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:		
PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING:		
ADDITIONAL INFOMRATION:		

SOLAR	
WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?	☐ YES (PLEASE PROVIDE MORE INFO ABOVE) ☒ No
☒ Check box indicating that you are submitting plans of the proposed solar project.	
☒ Check box indicating that you are submitting photographs of the existing roofing.	
ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	ASPHALT
NUMBER OF SOLAR POWERED PANELS:	56
SOLAR MANUFACTURER:	JA SOLAR
LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):	ROOF BACK OF HOUSE AND GARAGE ROOF
LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):	REAR
LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):	REAR
LOCATION OF CONDUIT (e.g. side of building, inside the house):	SIDE OF HOUSE
PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):	SAME AS HOUSE

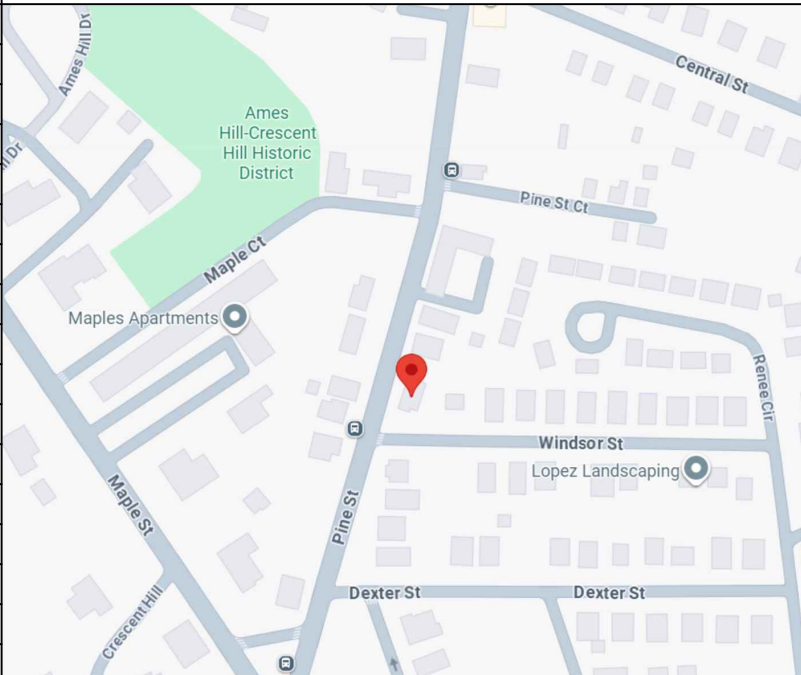
I, **Freddy Lewis**, at 257 pine street Springfield MA 01105 authorize

Sunrun will represent me at all Historical Committee meetings, acting as my authorized spokesperson for matters related to the solar project.

Signed by:

6861C8BA5799481...

11/4/2025

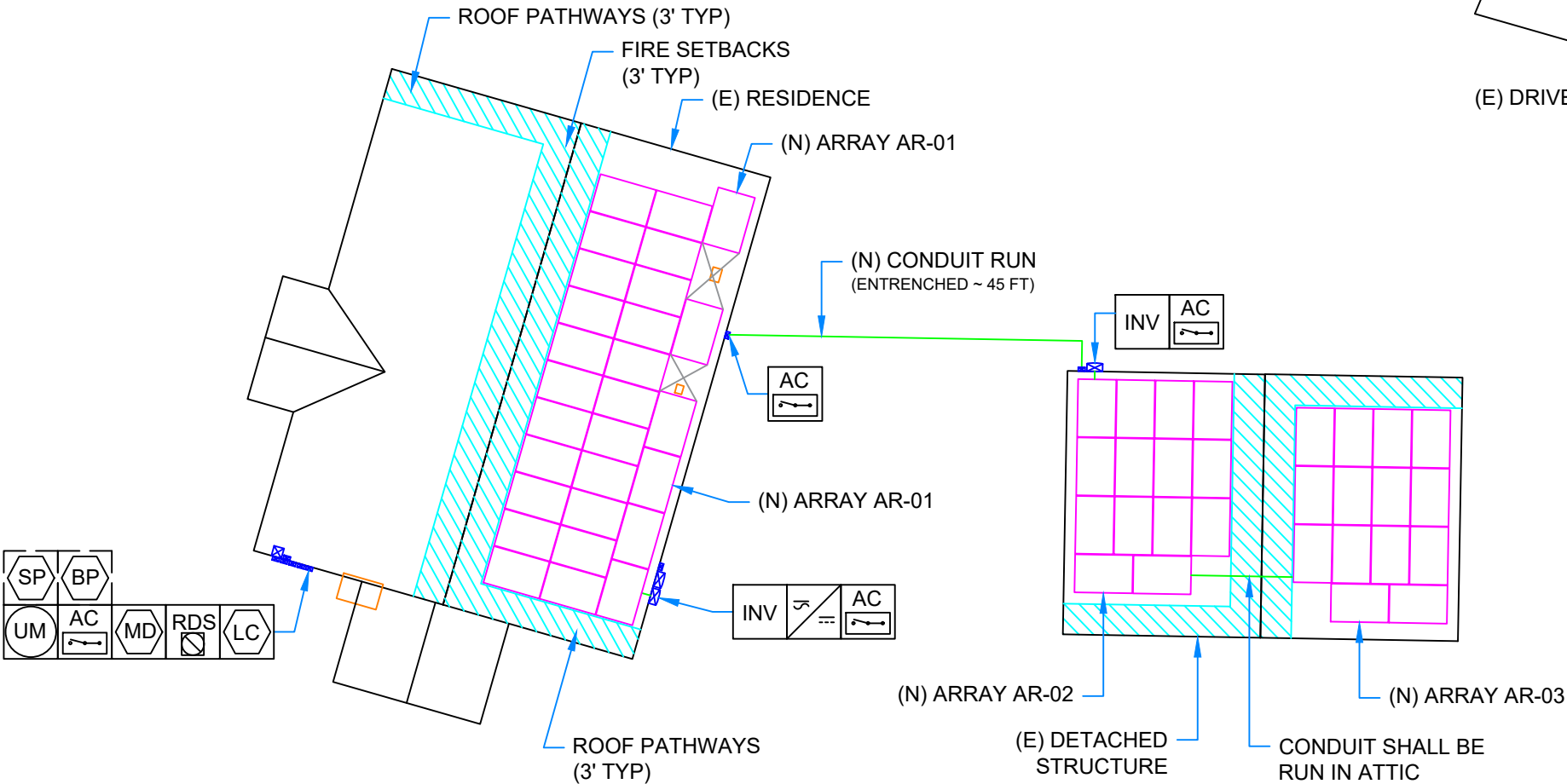
SHEET INDEX		SCOPE OF WORK	GENERAL NOTES		SUNRUN #180120 734 FOREST STREET #400, MARLBOROUGH, MA 01752 PHONE 888.657.6527 FAX 805.528.9701 CUSTOMER RESIDENCE: FREDDY LEWIS 257 PINE ST, SPRINGFIELD, MA, 01105 TEL. (413) 949-6224 APN: SPRI-009715-000000-000127 PROJECT NUMBER: 221R-257LEWI DESIGNER: (415) 580-6920 ex3 HAZEL BARCIBAL SHEET COVER SHEET REV: A210/23/2025 PAGE PV-1.0																
PAGE #	DESCRIPTION	• SYSTEM SIZE: 22.68KW DC, 15.2KW AC • MODULES: (56) JA SOLAR: JAM54S31-405/MR • INVERTERS: (2) SOLAREDGE TECHNOLOGIES: SE7600H-USMN • ENERGY STORAGE SYSTEM: (1) FRANKLIN: APOWER XYYY 15KWH, 10KW INVERTER OUTPUT, LITHIUM IRON PHOSPHATE BATTERY (WEIGHT: 357LB EACH) • MICROGRID INTERCONNECT DEVICE: (1) 280A AGATE X CONTROL PANEL • RACKING: ALPHATRACK TO FRAMING - SNR-DC-00370 • TRENCHING REQUIRED: AC WIRE TO BE TRENCHED 45 FT IN DIRT MATERIAL. • ADD NEW 200 AMP NON-BACKUP LOAD PANEL.	• ALL WORK SHALL COMPLY WITH MA 10TH ED. CMR 780 (2021 IRC/IBC/IEBC), 7-16 ASCE & 2018 NDS, , 2023 NEC AND 2023 MA ELECTRICAL CODE 527 CMR 12.00 (2023 NFPA 70 WITH MA AMENDMENTS), MUNICIPAL CODE, AND ALL MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS. • PHOTOVOLTAIC SYSTEM WILL COMPLY WITH NEC 2023. • ELECTRICAL SYSTEM GROUNDING WILL COMPLY WITH NEC 2023. • PHOTOVOLATIC SYSTEM IS UNGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER. SYSTEM COMPLIES WITH 690.41(A) • MODULES CONFORM TO AND ARE LISTED UNDER UL 61730. • INVERTER CONFORMS TO AND IS LISTED UNDER UL 1741. • RACKING CONFORMS TO AND IS LISTED UNDER UL 2703. • SNAPNRACK RACKING SYSTEMS, IN COMBINATION WITH TYPE I, OR TYPE II MODULES, ARE CLASS A FIRE RATED. • RAPID SHUTDOWN REQUIREMENTS MET WHEN INVERTERS AND ALL CONDUCTORS ARE WITHIN ARRAY BOUNDARIES PER NEC 690.12(1). • CONSTRUCTION FOREMAN TO PLACE CONDUIT RUN PER 690.31(D). • ARRAY DC CONDUCTORS ARE SIZED FOR DERATED CURRENT. • 13.93 AMPS MODULE SHORT CIRCUIT CURRENT. • 17.41 AMPS DERATED SHORT CIRCUIT CURRENT [690.8 (a) & 690.8 (b)]. • PV INSTALLATION COMPLIES WITH THE NEC 2023 ARTICLE 690.12(B)(2)(2). CONTROLLED CONDUCTORS LOCATED INSIDE THE ARRAY BOUNDARY ARE LIMITED TO 80 VOLTS WITHIN 30 SECOND OF A RAPID SHUTDOWN INITIATION • THE CAPACITY OF THE STANDALONE SYSTEM SUPPLY SHALL BE EQUAL TO OR GREATER THAN THE LOAD POSED BY THE SINGLE LARGEST UTILIZATION EQUIPMENT CONNECTED TO THE SYSTEM PER NEC ARTICLE 710.15(A) • ALL PASS-THROUGH CONDUCTORS MUST COMPLY WITH NEC 312.8																		
PV-1.0	COVER SHEET																				
PV-2.0	SITE PLAN																				
PV-2.1	ESS ELEVATION DETAIL																				
PV-3.0	LAYOUT																				
PV-4.0	ELECTRICAL																				
PV-5.0	SIGNAGE 1																				
PV-5.1	SIGNAGE 2																				
ABBREVIATIONS		VICINITY MAP	<table><tr><th>REV</th><th>NAME</th><th>DATE</th><th>COMMENTS</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>			REV	NAME	DATE	COMMENTS												
REV	NAME	DATE				COMMENTS															
A	AMPERE																				
AC	ALTERNATING CURRENT																				
AFC	ARC FAULT CIRCUIT INTERRUPTER																				
AZIM	AZIMUTH																				
COMP	COMPOSITION																				
DC	DIRECT CURRENT																				
(E)	EXISTING																				
ESS	ENERGY STORAGE SYSTEM																				
MSP	MAIN SERVICE PANEL																				
(N)	NEW																				
PRE-FAB	PRE-FABRICATED																				
PSF	POUNDS PER SQUARE FOOT																				
PV	PHOTOVOLTAIC																				
RSD	RAPID SHUTDOWN DEVICE																				
TL	TRANSFORMERLESS																				
V	VOLTS																				
W	WATTS																				

- NOTES:**
- RESIDENCE DOES NOT CONTAIN ACTIVE FIRE SPRINKLERS.

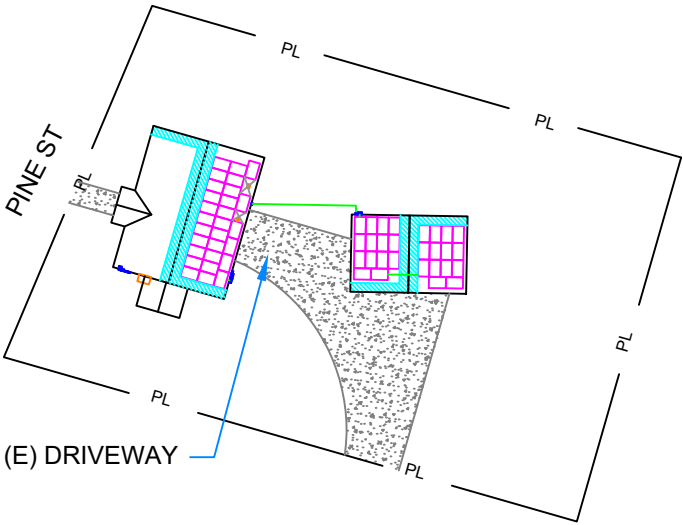
- ARRAY DETAILS:**
- TOTAL ROOF SURFACE AREA: 3168 SQ FT.
 - TOTAL PV ARRAY AREA: 1177.3 SQ FT.
 - PERCENTAGE PV COVERAGE:
(TOTAL PV ARRAY AREA/TOTAL ROOF SURFACE AREA) * 100 = 37.2%

	ARRAY PITCH	TRUE AZIM	MAG AZIM	PV AREA (SQFT)
AR-01	34°	106°	120°	588.64
AR-02	34°	271°	285°	294.32
AR-03	34°	91°	105°	294.32

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



SITE PLAN DETAIL - SCALE = 1/64" = 1'-0"



SUNRUN

#180120
734 FOREST STREET #400, MARLBOROUGH, MA 01752
PHONE 888.657.6527
FAX 805.528.9701

CUSTOMER RESIDENCE:
FREDDY LEWIS
257 PINE ST, SPRINGFIELD, MA,
01105

TEL. (413) 949-6224
APN: SPRI-009715-000000-000127

PROJECT NUMBER:
221R-257LEWI

DESIGNER: (415) 580-6920 ex3
HAZEL BARCIBAL

SHEET
SITE PLAN

REV: A2 10/23/2025

PAGE
PV-2.0

LEGEND

SCALE: NTS
NOTE: NOT ALL ITEMS IN LEGEND
WILL APPEAR IN SITE PLAN

UTILITY METER
MAIN PANEL

SUNRUN METER
DEDICATED PV METER
SUB-PANEL
PV LOAD CENTER

AC DISCONNECT(S)
DC DISCONNECT(S)
INVERTER(S)
REMOTE DISCONNECT SWITCH

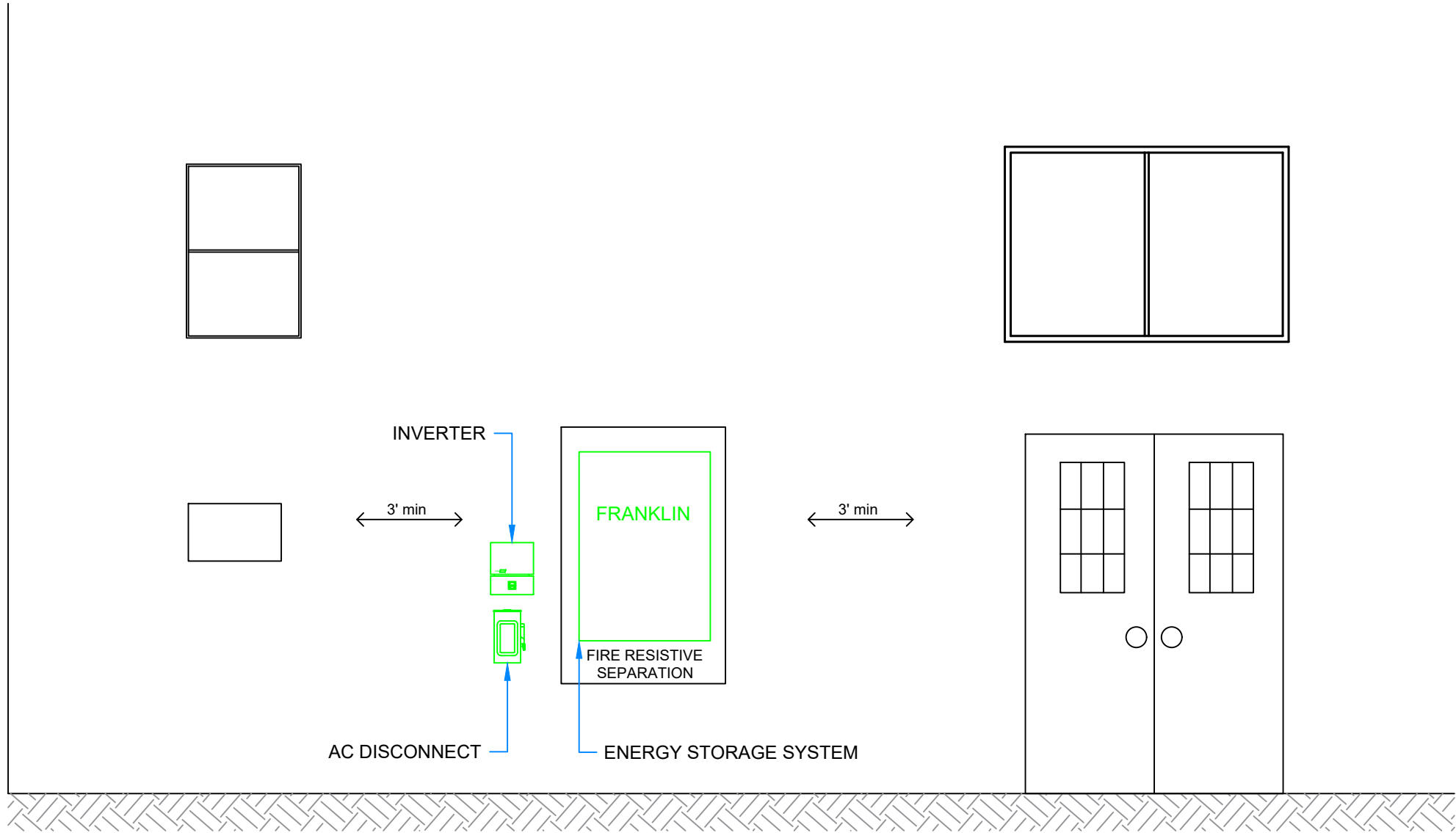
ELECTRIC VEHICLE
SUPPLY EQUIPMENT
ENERGY STORAGE
SYSTEM
ACREL METER
IQ COMBINER BOX

MICROGRID
INTERCONNECT DEVICE
METER ADAPTER
BACKUP INTERFACE
BACKUP LOADS PANEL

GROUNDING
ELECTRODE
INTERIOR EQUIPMENT
SHOWN AS DASHED
COMMUNICATION
WIRES
ENERGY STORAGE
SYSTEM (ESS)

SOLAR
MODULES
SNR MOUNT
SNR MOUNT & SKIRT

ESS ELEVATION DETAIL - SCALE = 1/4" = 1'-0"



- NOTE:**
- ENERGY STORAGE SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND LISTING REQUIREMENTS.
 - ENERGY STORAGE UNIT TO BE INSTALLED 3 FEET AWAY FROM ANY WINDOW AND/OR DOOR ENTERING THE DWELLING.
 - ENERGY STORAGE UNIT TO BE INSTALLED ON THE EXTERIOR OF BUILDING
 - FIRE DETECTION REGULATION NOT APPLICABLE DUE TO EXTERIOR INSTALLATION
 - ENERGY STORAGE SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS AND LISTING REQUIREMENTS
 - FIRE RESISTIVE SEPARATION TO BE INSTALLED BETWEEN THE BATTERY MOUNTING BRACKET AND THE SUPPORTING WALL. THE FIRE BARRIER THICKNESS SHALL NOT EXCEED 3/4"

SUNRUN

#180120

734 FOREST STREET #400, MARLBOROUGH, MA 01752
PHONE 888.657.6527
FAX 805.528.9701

CUSTOMER RESIDENCE:
FREDDY LEWIS
257 PINE ST, SPRINGFIELD, MA,
01105

TEL. (413) 949-6224
APN: SPRI-009715-000000-000127

PROJECT NUMBER:
221R-257LEWI

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HAZEL BARCIBAL

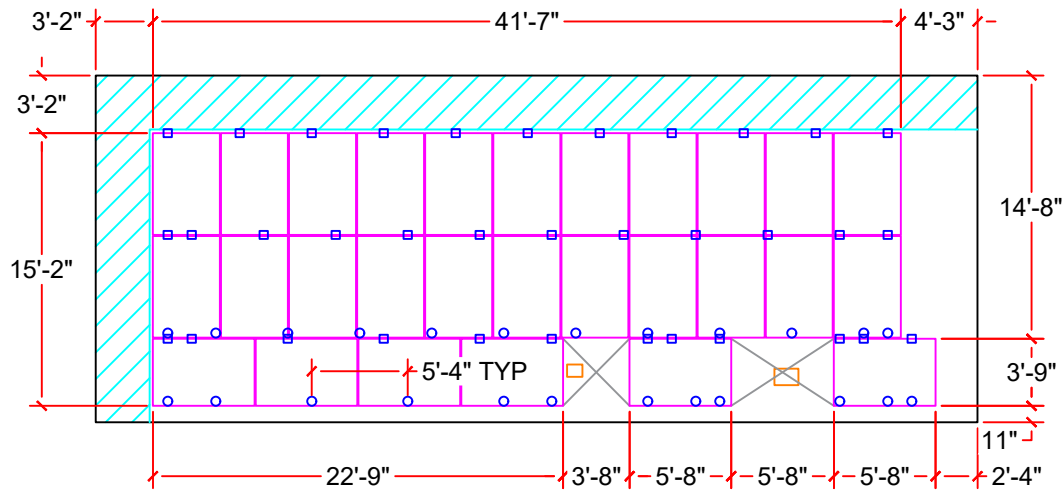
SHEET
ESS ELEVATION DETAIL

REV: A2 10/23/2025

PAGE
PV-2.1

ROOF INFO			FRAMING INFO			ATTACHMENT INFORMATION					
Name	Type	Height	Type	Max Span	OC Spacing	Detail	Max Landscape OC Spacing	Max Landscape Overhang	Max Portrait OC Spacing	Max Portrait Overhang	Configuration
AR-01	COMP SHINGLE - ALPHATRACK	1-Story	2X8 RAFTERS	15'-5"	16"	ALPHATRACK TO FRAMING - SNR-DC-00370	5'-4"	2'-1"	4'-0"	2'-0"	STAGGERED
AR-02	COMP SHINGLE - ALPHATRACK	1-Story	2X8 RAFTERS	15'-5"	16"	ALPHATRACK TO FRAMING - SNR-DC-00370	5'-4"	2'-1"	4'-0"	2'-0"	STAGGERED
AR-03	COMP SHINGLE - ALPHATRACK	1-Story	2X8 RAFTERS	15'-5"	16"	ALPHATRACK TO FRAMING - SNR-DC-00370	5'-4"	2'-1"	4'-0"	2'-0"	STAGGERED

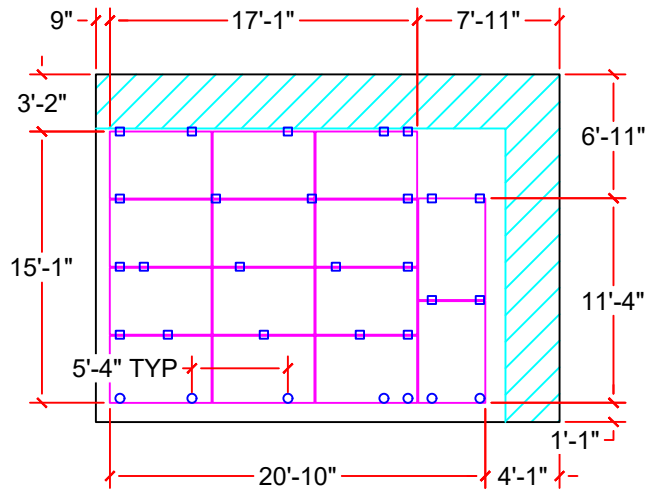
D1 - AR-01 - SCALE: 3/32" = 1'-0"
AZIM: 106°
PITCH:34°



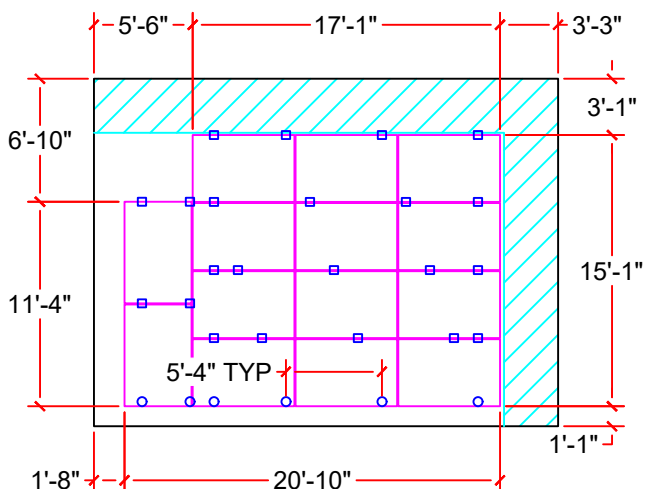
INSTALLERS SHALL NOTIFY ENGINEER OF ANY POTENTIAL STRUCTURAL ISSUES OBSERVED PRIOR TO PROCEEDING W/ INSTALLATION.

- IF ARRAY (EXCLUDING SKIRT) IS WITHIN 12" BOUNDARY REGION OF ANY ROOF PLANE EDGES (EXCEPT VALLEYS), THEN ATTACHMENTS NEED TO BE ADDED AND OVERHANG REDUCED WITHIN THE 12" BOUNDARY REGION ONLY AS FOLLOWS:
 - ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS TO BE REDUCED BY 50%.
 - ALLOWABLE OVERHANG INDICATED ON PLANS TO BE 1/5TH OF ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS.

D2 - AR-02 - SCALE: 3/32" = 1'-0"
AZIM: 271°
PITCH:34°



D3 - AR-03 - SCALE: 3/32" = 1'-0"
AZIM: 91°
PITCH:34°



DESIGN CRITERIA

MAX DISTRIBUTED LOAD: 3 PSF

SNOW LOAD: 35 PSF

WIND SPEED: 115 MPH 3-SEC GUST.

FASTENERS: (1) 5/16" DIA S.S. LAG SCREW: 2.5" MIN EMBEDMENT INTO FRAMING

Exp. 6/30/2026
Digitally Signed On: 11/07/25

SUNRUN

#180120

734 FOREST STREET #400, MARLBOROUGH, MA 01752
PHONE 888.657.6527
FAX 805.528.9701

CUSTOMER RESIDENCE:
FREDDY LEWIS
257 PINE ST, SPRINGFIELD, MA, 01105

TEL. (413) 949-6224
APN: SPRI-009715-000000-000127

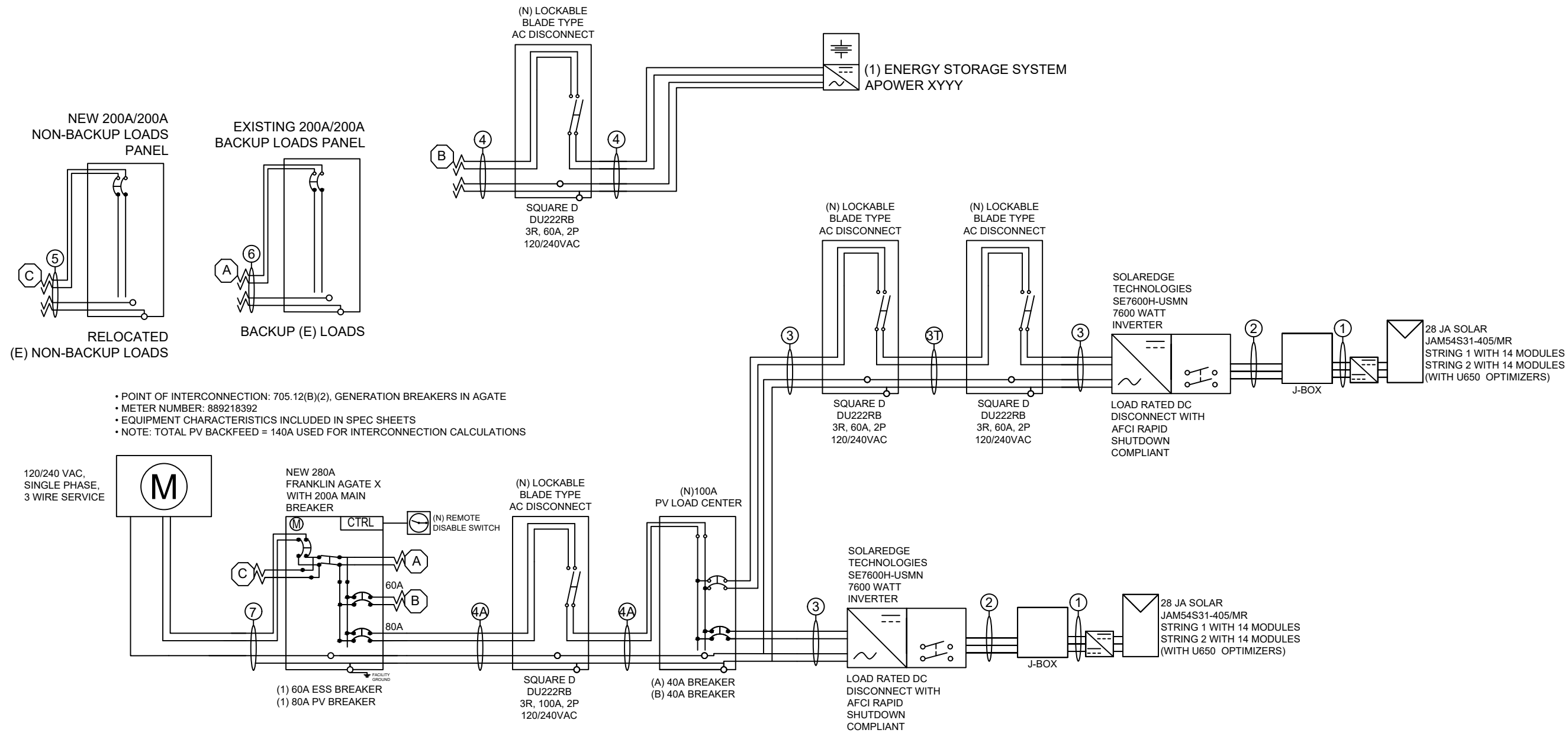
PROJECT NUMBER:
221R-257LEWI

DESIGNER: (415) 580-6920 ex3
HAZEL BARCIBAL

SHEET
LAYOUT

REV: A2 10/23/2025

PAGE
PV-3.0



- POINT OF INTERCONNECTION: 705.12(B)(2), GENERATION BREAKERS IN AGATE
- METER NUMBER: 889218392
- EQUIPMENT CHARACTERISTICS INCLUDED IN SPEC SHEETS
- NOTE: TOTAL PV BACKFEED = 140A USED FOR INTERCONNECTION CALCULATIONS

CONDUIT SCHEDULE

TAG	CIRCUIT DESCRIPTION	CONDUCTOR	NEUTRAL	GROUND	CONDUIT
1	Inverter Input	(4) 10 AWG (PV WIRE)	N/A	6 AWG (BARE)	Open Air
2	Inverter Input	(4) 10 AWG THHN/THWN-2	N/A	8 AWG THHN/THWN-2	3/4 EMT
3	Inverter Output	(2) 8 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2	8 AWG THHN/THWN-2	3/4 EMT
3T	Inverter Output	(2) 8 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2	8 AWG THHN/THWN-2	1" SCH 40 PVC (BELOW GROUND) 1" SCH 80 PVC (ABOVE GROUND)
4A	Load Center Output	(2) 4 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2	8 AWG THHN/THWN-2	1 EMT
4	Battery Output	(2) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2	8 AWG THHN/THWN-2	3/4 EMT
5	Non-backup Panel Feeder	(2) 3/0 AWG THHN/THWN-2	(1) 3/0 AWG THHN/THWN-2	4 AWG THHN/THWN-2	2 EMT
6	Backup Panel Feeder	(2) 3/0 AWG THHN/THWN-2	(1) 3/0 AWG THHN/THWN-2	4 AWG THHN/THWN-2	2 EMT
7	aGate Feeder	(2) 3/0 AWG THHN/THWN-2	(1) 3/0 AWG THHN/THWN-2	NONE	2 EMT

ENERGY STORAGE DOES NOT CHARGE FROM THE GRID AND IS DESIGNED TO EXPORT TO THE UTILITY GRID.

SUNRUN

#180120

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FAX 805.528.9701

CUSTOMER RESIDENCE:
FREDDY LEWIS
257 PINE ST, SPRINGFIELD, MA,
01105

TEL. (413) 949-6224
APN: SPRI-009715-000000-000127

PROJECT NUMBER:
221R-257LEWI

DESIGNER: (415) 580-6920 ex3
HAZEL BARCIBAL

SHEET
ELECTRICAL

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PV-4.0

!WARNING

ELECTRICAL SHOCK HAZARD

TERMINALS ON LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION:
INVERTER(S), AC/DC DISCONNECT(S),
AC COMBINER PANEL (IF APPLICABLE).
PER CODE(S): NEC 2023: 690.13(B),
705.20(7), 706.15(C)

!WARNING

THREE POWER SUPPLY

SOURCES: UTILITY GRID,
BATTERY AND PV SOLAR
ELECTRIC SYSTEM

LABEL LOCATION:
UTILITY SERVICE METER AND MAIN
SERVICE PANEL.
PER CODE(S): NEC 2023: 705.12(C)

!WARNING

POWER SOURCE OUTPUT CONNECTION

DO NOT RELOCATE THIS
OVERCURRENT DEVICE

LABEL LOCATION:
ADJACENT TO PV BREAKER AND ESS
OCPD (IF APPLICABLE).
PER CODE(S): NEC 2023: 705.12(B)(2)

RAPID SHUTDOWN SWITCH
FOR SOLAR PV SYSTEM

LABEL LOCATION:
INSTALLED WITHIN 3' OF RAPID SHUT DOWN
SWITCH PER CODE(S): NEC 2023: 690.12(D)(2), IFC
2021: 1204.5.3

WARNING: PHOTOVOLTAIC
POWER SOURCE

LABEL LOCATION:
INTERIOR AND EXTERIOR DC CONDUIT EVERY 10 FT,
AT EACH TURN, ABOVE AND BELOW PENETRATIONS,
ON EVERY JB/PULL BOX CONTAINING DC CIRCUITS.
PER CODE(S): NEC 2023: 690.31(D)(2)

INVERTER 1

PHOTOVOLTAIC DC DISCONNECT

MAXIMUM SYSTEM VOLTAGE:

480

VDC

LABEL LOCATION:
INVERTER(S), DC DISCONNECT(S).
PER CODE(S): NEC 2023: 690.7(D)

INVERTER 2

PHOTOVOLTAIC DC DISCONNECT

MAXIMUM SYSTEM VOLTAGE:

480

VDC

LABEL LOCATION:
INVERTER(S), DC DISCONNECT(S).
PER CODE(S): NEC 2023: 690.7(D)

ENERGY STORAGE SYSTEM DISCONNECT

NOMINAL ESS VOLTAGE

120/240

VAC

MAXIMUM ESS DC VOLTAGE:

60

VDC

LABEL LOCATION:
ENERGY STORAGE SYSTEM
PER CODE(S): NEC 2023: 706.15(C)

Emergency responders, for 24 hour emergency service call:
1.833.607.6937 ext. 0
For customer questions or service issues, call our Customer Care team at:
1.855.478.6786
For customers in case of emergency, call:
911
This solar PV system is owned and operated by:
Sunrun

*Prior authorization from Sunrun is required for any maintenance/service activity.HIC 180120

LABEL LOCATION:
MAIN SERVICE DISCONNECT

!CAUTION

ENERGY STORAGE SYSTEM

PREMISES WIRING MAY REMAIN
ENERGIZED AFTER LOSS OF
UTILITY POWER

LABEL LOCATION:
INVERTER(S), AC/DC DISCONNECT(S), AC COMBINER PANEL (IF APPLICABLE).
PER CODE(S): NEC 2023: 706.15(C)

SOLAR PV SYSTEM EQUIPPED
WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN
SWITCH TO THE "OFF"
POSITION TO SHUT DOWN PV
SYSTEM AND REDUCE SHOCK
HAZARD IN THE ARRAY.

SOLAR
ELECTRIC PV
PANELS

LABEL LOCATION:
ON OR NO MORE THAT 1 M (3 FT) FROM THE SERVICE
DISCONNECTING MEANS TO WHICH THE PV SYSTEMS
ARE CONNECTED.
PER CODE(S): NEC 2023: 690.12(D)

ENERGY STORAGE SYSTEM
DISCONNECT

LABEL LOCATION:
ENERGY STORAGE SYSTEM DISCONNECT
PER CODE(S): NEC 2023: 706.15(C)

- NOTES AND SPECIFICATIONS:
- SIGNS AND LABELS SHALL MEET THE REQUIREMENTS OF THE NEC 2023 ARTICLE 110.21(B), UNLESS SPECIFIC INSTRUCTIONS ARE REQUIRED BY SECTION 690, OR IF REQUESTED BY THE LOCAL AHJ.
 - SIGNS AND LABELS SHALL ADEQUATELY WARN OF HAZARDS USING EFFECTIVE WORDS, COLORS AND SYMBOLS.
 - LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HAND WRITTEN.
 - LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
 - SIGNS AND LABELS SHALL COMPLY WITH ANSI Z535.4-2011, PRODUCT SAFETY SIGNS AND LABELS, UNLESS OTHERWISE SPECIFIED.
 - DO NOT COVER EXISTING MANUFACTURER LABELS.

Sunrun

#180120

734 FOREST STREET #400, MARLBOROUGH, MA 01752
PHONE 888.657.6527
FAX 805.528.9701

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FREDDY LEWIS
257 PINE ST, SPRINGFIELD, MA,
01105

TEL. (413) 949-6224
APN: SPRI-009715-000000-000127

PROJECT NUMBER:
221R-257LEWI

DESIGNER: (415) 580-6920 ex3
HAZEL BARCIBAL

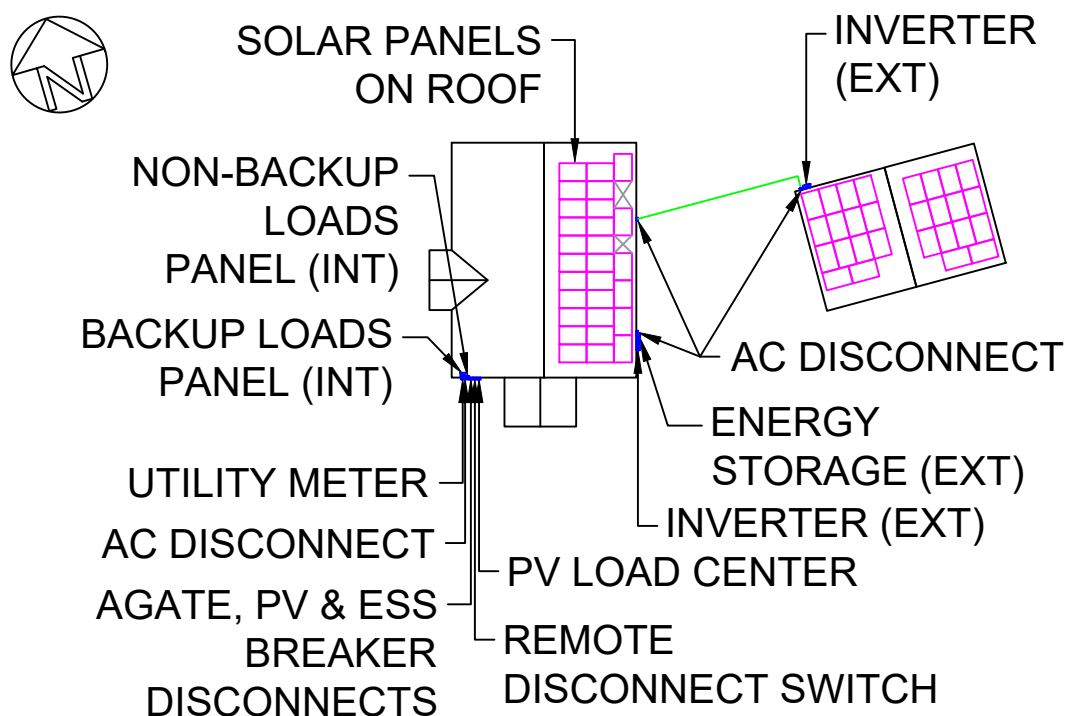
SHEET
SIGNAGE 1

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PV-5.0

CAUTION:

MULTIPLE SOURCES OF POWER



257 PINE ST, SPRINGFIELD, MA, 01105

PER CODE(S): NEC 2023 : 705.12(B)(2)

LABELING FORMAT

LABELS SHALL BE RED PLASTIC MATERIAL WITH ENGRAVED WHITE LETTERS
MADE OF DURABLE ADHESIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR
THE ENVIRONMENT. LETTERS SHALL BE MINIMUM 3/8" IN SIZE.

SUNRUN

#180120

734 FOREST STREET #400, MARLBOROUGH, MA 01752
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257 PINE ST, SPRINGFIELD, MA,
01105

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PROJECT NUMBER:
221R-257LEWI

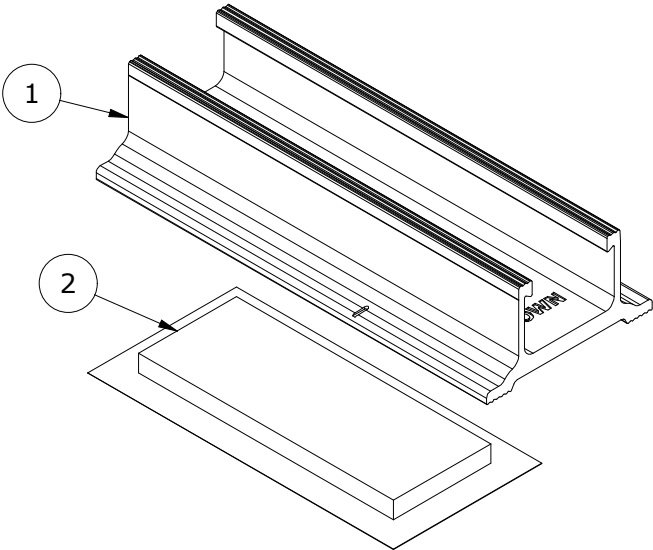
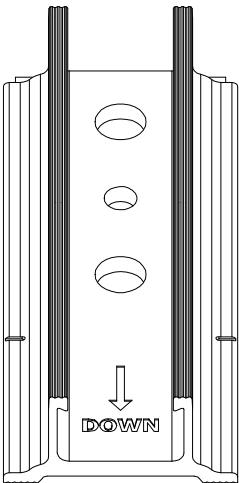
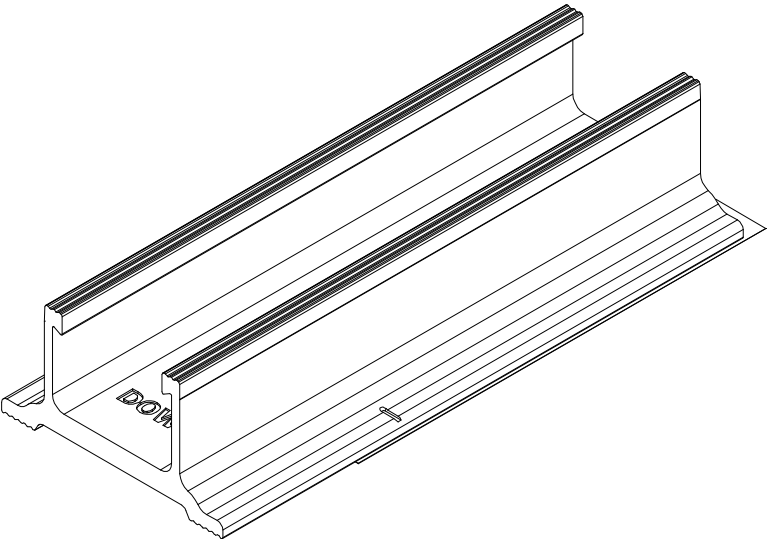
DESIGNER: (415) 580-6920 ex3
HAZEL BARCIBAL

SHEET
SIGNAGE 2

REV: A2 10/23/2025

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PV-5.1

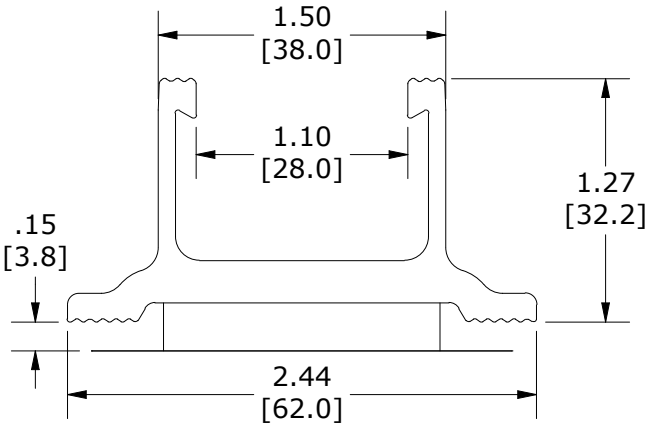
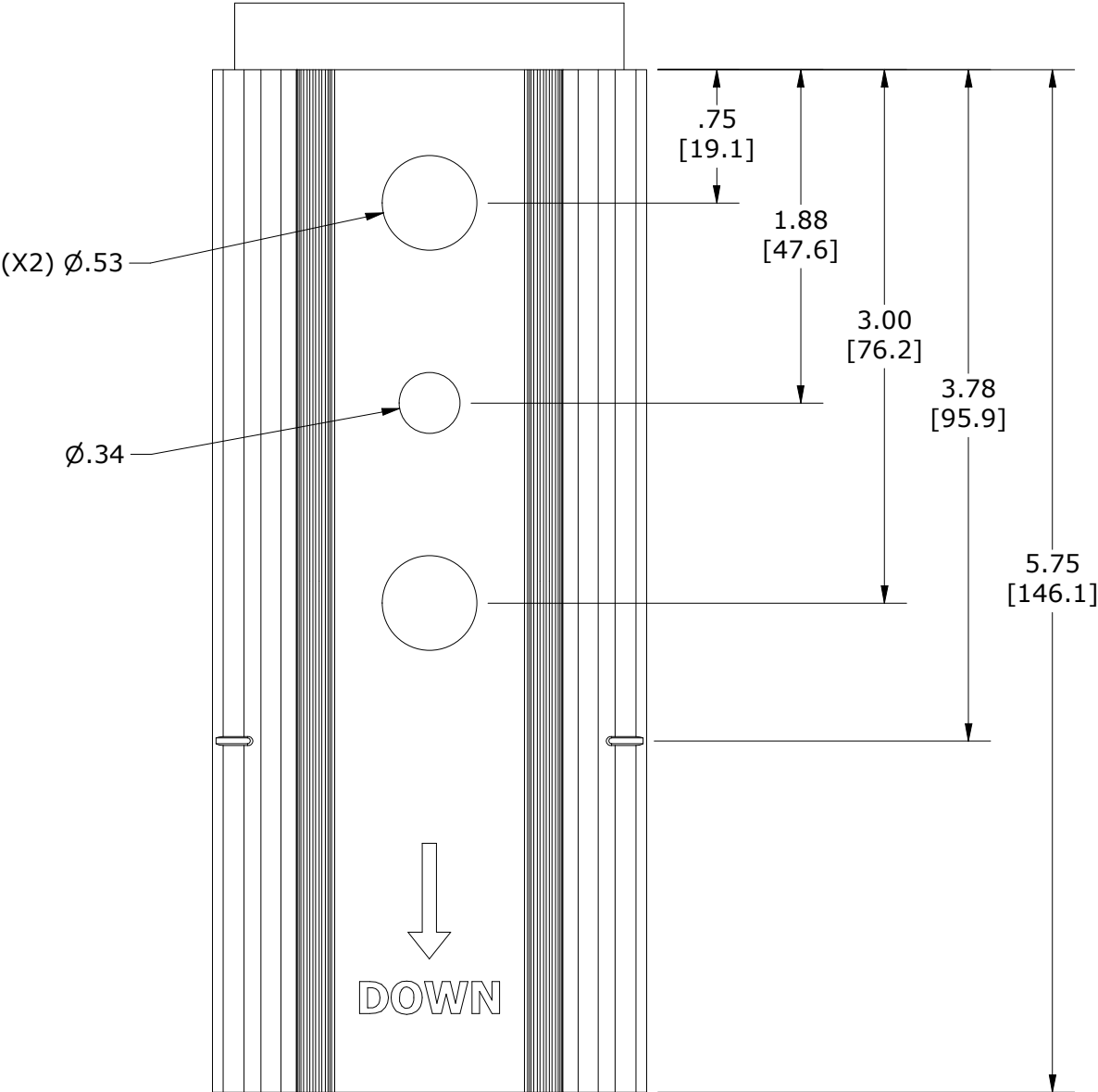
DESCRIPTION: SNAPNRACK, TDS, ALPHATRACK (USA)		DOC NUMBER: SNR-DC-01452		SnapNrack®
		DRAWN BY: H.WULFEKOETTER		
PART NUMBER(S): 242-10063-USA		REV: A	DATE: 11/21/2024	
		UNITS: IN, LB, DEG [MM, KG, DEG] SHEET: 1:2		
SNR SOLAR LLC 775 FIERO LANE, SUITE 200 SAN LUIS OBISPO, CA 93401 USA EMAIL: CONTACT@SNAPNRACK.COM THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY. ANY REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF SNR SOLAR LLC.				



PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	SNAPNRACK, ALPHATRACK, MILL
2	1	SNAPNRACK, BUTYL PAD, 3.75IN X 1.50IN X .25IN

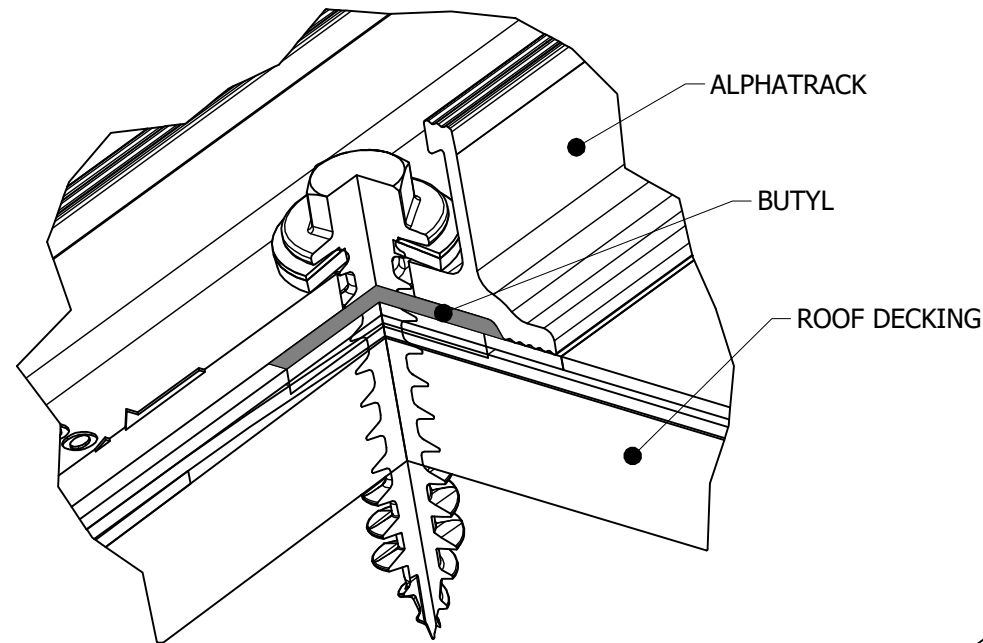
MATERIALS:	6000 SERIES ALUMINUM, BUTYL
DESIGN LOAD (LBS):	VARIES, REFER TO SNAPNRACK ENGINEERING
ULTIMATE LOAD (LBS):	VARIES, REFER TO SNAPNRACK ENGINEERING
TORQUE SPECIFICATION:	N/A FT-LBS
CERTIFICATION:	UL 2703, FILE E359313, DOMESTIC CONTENT COMPLIANT
WEIGHT (LBS):	0.43

DESCRIPTION: SNAPNRACK, TDS, ALPHATRACK (USA)		DOC NUMBER: SNR-DC-01452		SnapNrack®
PART NUMBER(S): 242-10063-USA		DRAWN BY: H.WULFEKOETTER		
		REV: A	DATE: 11/21/2024	
UNITS: IN, LB, DEG [MM, KG, DEG]		SHEET: 2:2		SNR SOLAR LLC 775 FIERO LANE, SUITE 200 SAN LUIS OBISPO, CA 93401 USA EMAIL: CONTACT@SNAPNRACK.COM THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY. ANY REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF SNR SOLAR LLC.

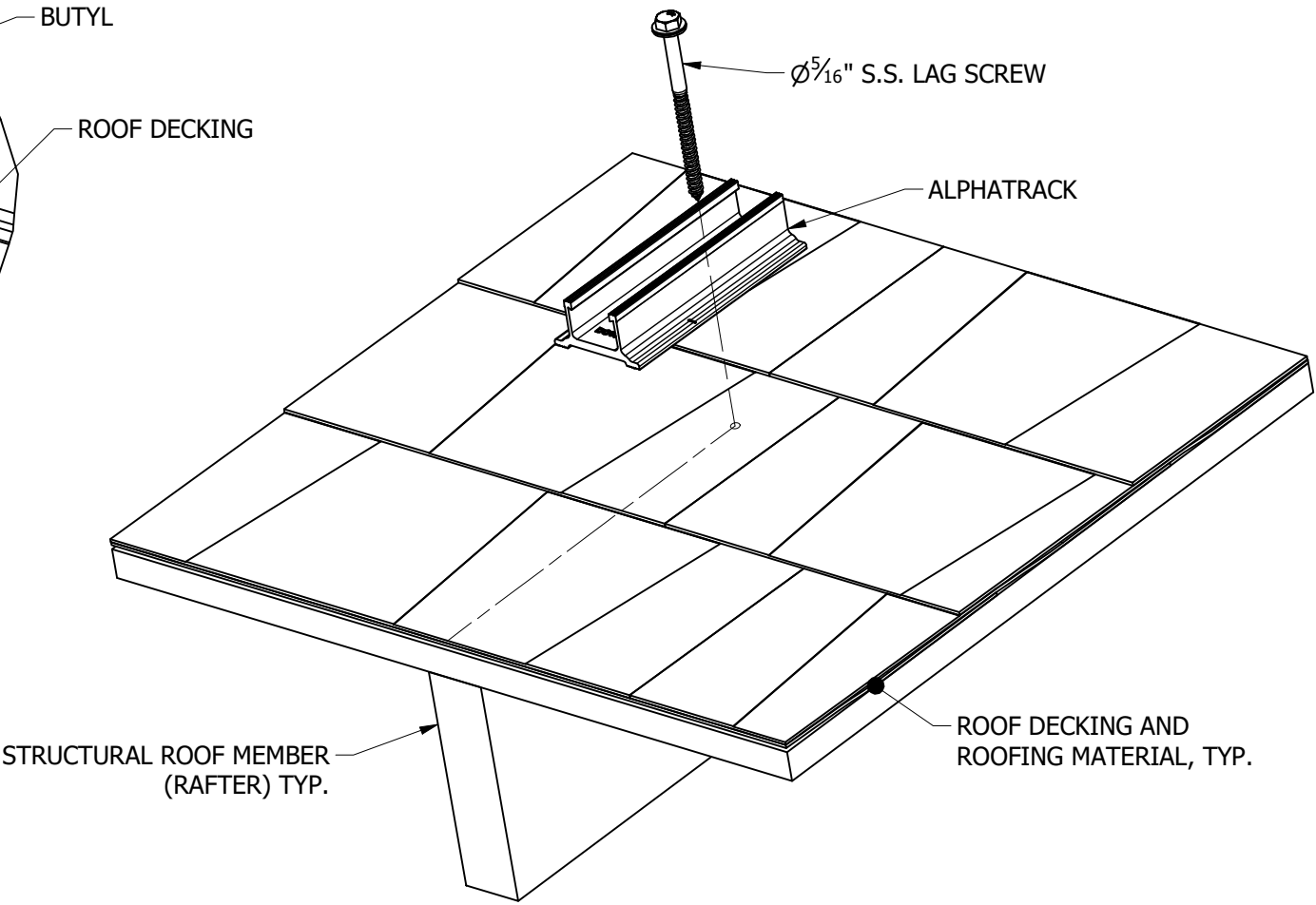
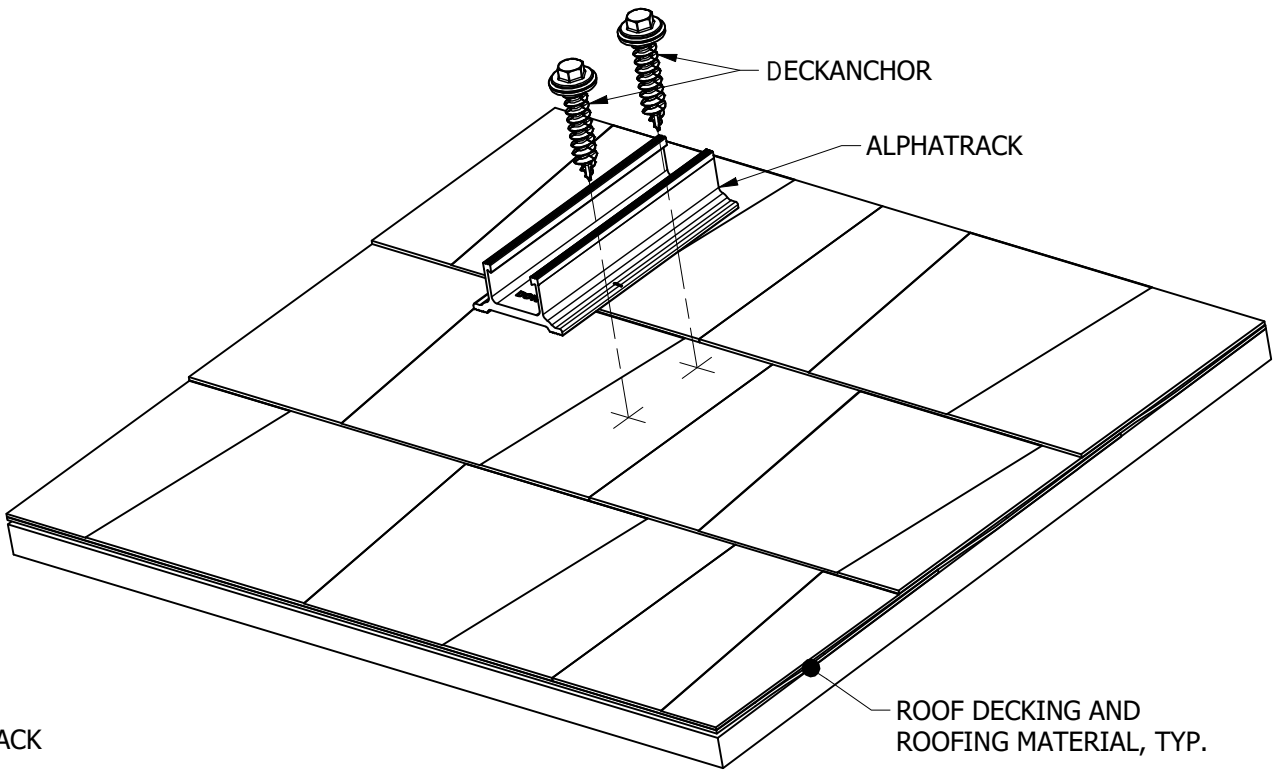


FOR SNAPRACK ENGINEERING TO APPLY, THE EMBEDMENT CRITERIA SHOWN HEREIN MUST BE MET (IF CRITERIA CANNOT BE MET OR SPANS ARE NOT SUFFICIENT, CONTACT SNAPRACK FOR SUPPORT).

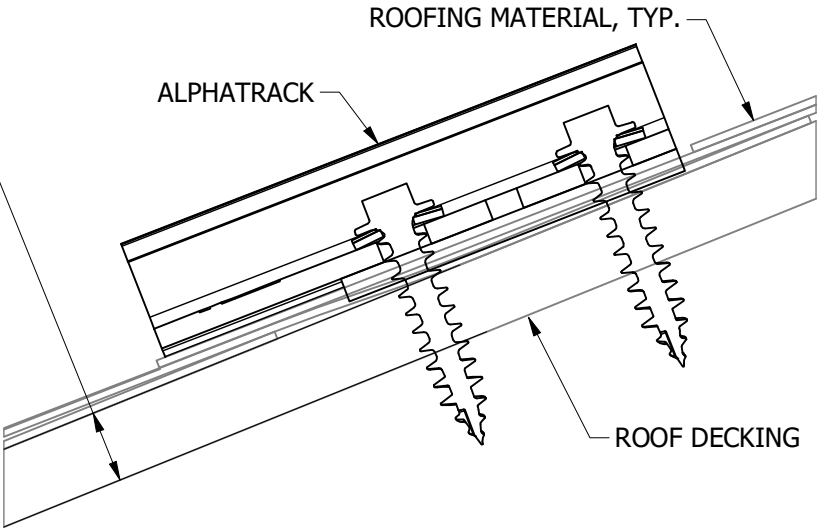
REFER TO SNAPRACK INSTALLATION MANUAL FOR 5/16"Ø HARDWARE TORQUE SPECIFICATIONS. REFER TO MANUFACTUER SPECIFICATIONS FOR OTHER FASTENER TORQUE REQUIREMENTS.



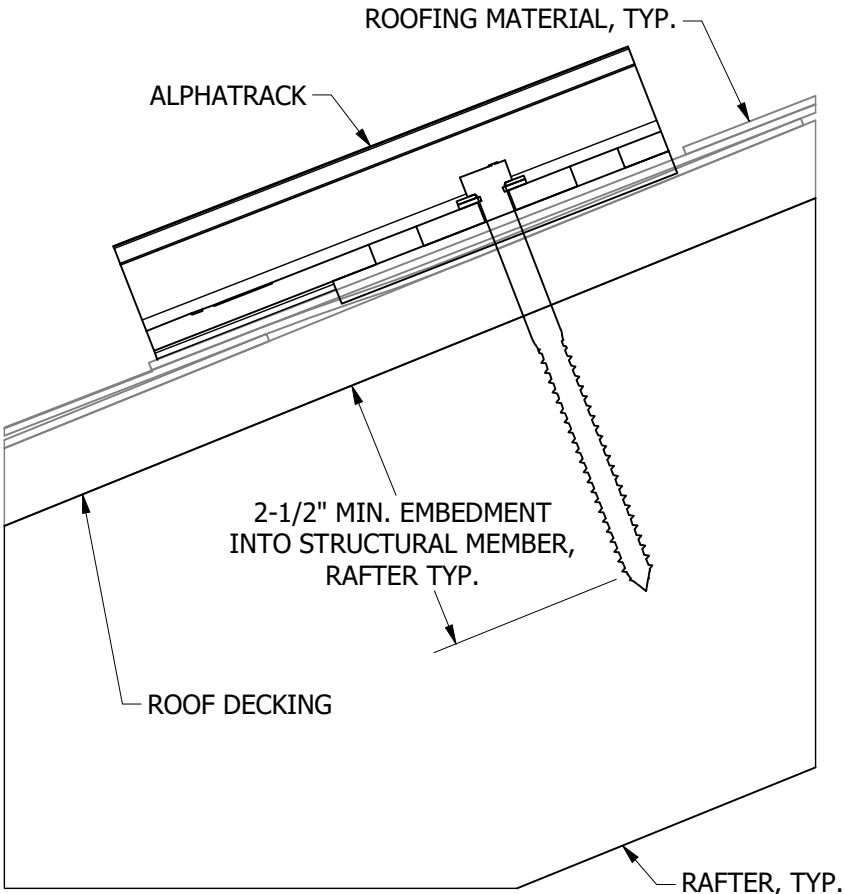
BUTYL DETAIL
(DECKANCHOR SHOWN)



MINIMUM DECK THICKNESS:
PLYWOOD: 15/32"
OSB: 7/16"



COMPLETED DECK INSTALLATION



COMPLETED RAFTER INSTALLATION

REVISION:			
A	8/9/2024	DC004258	MKW
A	9/16/2024	DC004258	MKW

Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US /
SE10000H-US / SE11400H-US⁽¹⁾



Optimized battery storage with HD-Wave technology

- / Record-breaking 99% weighted efficiency with 200% DC oversizing
- / Small, lightweight, and easy to install
- / Modular design, future ready with optional upgrades to:
 - / DC-coupled storage for full or partial home backup
 - / Built-in consumption monitoring
 - / Direct connection to the SolarEdge smart EV charger
- / Multi-inverter, scalable storage solution
 - / With enhanced battery power up to 10kW
- / Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020, per article 690.11 and 690.12
- / Embedded revenue grade production data, ANSI C12.20 Class 0.5

/ Single Phase Energy Hub Inverter with Prism Technology For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNITS
OUTPUT - AC ON GRID							
Rated AC Power	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
AC Frequency Range (min - nom - max)	59.3 - 60 - 60.5 ⁽²⁾						Hz
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	A
Maximum Continuous Output Current @ 208V	-	16	24	-	-	48.5	A
GFDI Threshold	1						A
Total Harmonic Distortion (THD)	<3						%
Power Factor	1, adjustable -0.85 to 0.85						
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes						
Charge Battery from AC (if allowed)	Yes						
Typical Nighttime Power Consumption	<2.5						W
OUTPUT - AC BACKUP ⁽³⁾							
Rated AC Power in Backup Operation ⁽⁴⁾	3000	3800 7600*	6000	7600 10300*	10000	10300	W
AC L-L Output Voltage Range in Backup	211 - 264						Vac
AC L-N Output Voltage Range in Backup	105 - 132						Vac
AC Frequency Range in Backup (min - nom - max)	55 - 60 - 65						Hz
Maximum Continuous Output Current in Backup Operation	12.5	16 32*	25	32 43*	42	43	A
GFDI	1						A
THD	<5						%
OUTPUT - SMART EV CHARGER AC							
Rated AC Power	9600						W
AC Output Voltage Range	211 - 264						Vac
On-Grid AC Frequency Range (min - nom - max)	59.3 - 60 - 60.5						Hz
Maximum Continuous Output Current @240V (grid, PV and battery)	40						Aac
INPUT - DC (PV AND BATTERY)							
Transformer-less, Ungrounded	Yes						
Max Input Voltage	480						Vdc
Nom DC Input Voltage	380						Vdc
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	600kΩ Sensitivity						
INPUT - DC (PV)							
Maximum DC Power @ 240V	6000	7600 15200*	12000	15200 22800*	22000	22800	W
Maximum DC Power @ 208V	-	6600	10000	-	-	20000	W
Maximum Input Current ⁽⁵⁾ @ 240V	8.5	10.5 20*	16.5	20 31*	27	31	Adc
Maximum Input Current ⁽⁵⁾ @ 208V	-	9	13.5	-	-	27	Adc
Max. Input Short Circuit Current	45						Adc
Maximum Inverter Efficiency	99	99.2					%
CEC Weighted Efficiency	99					99 @ 240V 98.5 @ 208V	%
2-pole Disconnection	Yes						

* Supported with PN SExxxxH-USMMxxxxxx or SExxxxH-USMNxxxxxx

(1) These specifications apply to inverters with part numbers SExxxxH-USMMxxxxxx or SExxxxH-USMNxxxxxx and connection unit model number DCD-1PH-US-PxH-F-x

(2) For other regional settings please contact SolarEdge support

(3) Not designed for standalone applications and requires AC for commissioning. Backup functionality is only supported for 240V grid

(4) Rated AC power in Backup Operation are valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of the value stated

(5) A higher current source may be used; the inverter will limit its input current to the values stated

/ Single Phase Energy Hub Inverter with Prism Technology For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNITS
INPUT - DC (BATTERY)							
Supported Battery Types	SolarEdge Energy Bank, LG RESU Prime ⁽⁶⁾						
Number of Batteries per Inverter	Up to 3 SolarEdge Energy Bank, up to 2 LG RESU Prime						
Continuous Power ⁽⁷⁾	6000	7600	10000				W
Peak Power ⁽⁷⁾	6000	7600	10000				W
Max Input Current	16	20	26.5				Adc
2-pole Disconnection	Yes						
SMART ENERGY CAPABILITIES							
Consumption Metering	Built - in ⁽⁸⁾						
Backup & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; Up to 3 inverters						
EV Charging	Direct connection to Smart EV charger						
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁽⁹⁾ , Wi-Fi (optional),SolarEdge Energy Net (optional)						
Revenue Grade Metering, ANSI C12.20	Built - in ⁽⁸⁾						
Integrated AC, DC and Communication Connection Unit	Yes						
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection						
DC Voltage Rapid Shutdown (PV and Battery)	Yes, according to NEC 2014, NEC 2017 and NEC 2020 690.12						
STANDARD COMPLIANCE							
Safety	UL1741, UL1741 SA, UL1741 PCS, UL1699B, UL1998, UL9540, CSA 22.2						
Grid Connection Standards	IEEE1547, Rule 21, Rule 14H						
Emissions	FCC part 15 class B						
INSTALLATION SPECIFICATIONS							
AC Output and EV AC Output Conduit Size / AWG Range	1" maximum / 14-4 AWG						
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14-6 AWG						
Dimensions with Connection Unit (H x W x D)	17.7 x 14.6 x 6.8 / 450 x 370 x 174			17.7 x 14.6 x 6.8 / 450 x 370 x 174	17.7 x 14.6 x 6.8 / 450 x 370 x 174		in / mm
				17.7 x 14.6 x 6.8 / 450 x 370 x 174*			
Weight with Connection Unit	26 / 11.8			26 / 11.8	30.2 / 13.7		lb / kg
				30.2 / 13.7*			
Noise	< 25	< 25	< 25	< 50			dBA
< 50*							
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹⁰⁾						°F / °C
Protection Rating	NEMA 4						

(6) The part numbers SExxxxH-USxMxxxx only support the SolarEdge Energy Bank. The part numbers SExxxxH-USxNxxxx support both SolarEdge Energy Bank and LG RESU Prime batteries
Requires supporting inverter firmware

(7) Discharge power is limited up to the inverter rated AC power for on-grid and backup applications

(8) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT0750-400NA-20 units per box. Revenue grade metering is only for production metering

(9) Information concerning the Data Plan's terms & conditions is available in the following link:

<https://www.solaredge.com/sites/default/files/se-communication-plan-terms-and-conditions-eng.pdf>

(10) Full power up to at least 50°C / 122°F; for power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>

Power Optimizer

For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505

POWER OPTIMIZER



PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Fast installation with a single bolt
- Next generation maintenance with module-level monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety

Power Optimizer

For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505

Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high-power 60-cell modules)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96-cell modules)	P401 (for high power 60 and 72 cell modules)	P405 (for high-voltage modules)	P485 (for high-voltage modules)	P505 (for higher current modules)	
INPUT									
Rated Input DC Power ⁽¹⁾	320	340	370	400	405	485	505	W	
Absolute Maximum Input Voltage (Voc at lowest temperature)	48	60	80	60	125 ⁽²⁾	83 ⁽²⁾	Vdc		
MPPT Operating Range	8 - 48	8 - 60	8 - 80	8-60	12.5 - 105	12.5 - 83	Vdc		
Maximum Short Circuit Current (Isc)	11	10.1	11.75	11	14	Adc			
Maximum DC Input Current	13.75	12.5	14.65	12.5	17.5	Adc			
Maximum Efficiency	99.5	%							
Weighted Efficiency	98.8	98.6	%						
Overvoltage Category	II								
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)									
Maximum Output Current	15	Adc							
Maximum Output Voltage	60	85	Vdc						
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)									
Safety Output Voltage per Power Optimizer	1 ± 0.1	Vdc							
STANDARD COMPLIANCE									
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3								
Safety	IEC62109-1 (class II safety), UL1741								
Material	UL94 V-0, UV Resistant								
RoHS	Yes								
INSTALLATION SPECIFICATIONS									
Maximum Allowed System Voltage	1000	Vdc							
Compatible inverters	All SolarEdge Single Phase and Three Phase inverters								
Dimensions (W x L x H)	129 x 153 x 27.5 / 5.1 x 6 x 1.1	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 153 x 29.5 / 5.1 x 6 x 1.16	129 x 159 x 49.5 / 5.1 x 6.3 x 1.9	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm / in			
Weight (including cables)	630 / 1.4	750 / 1.7	655 / 1.5	845 / 1.9	1064 / 2.3	gr / lb			
Input Connector	MC4 ⁽³⁾	Single or dual MC4 ⁽³⁾⁽⁴⁾	MC4 ⁽³⁾						
Input Wire Length	0.16 / 0.52	0.16 or 0.9 / 0.52 or 2.95 ⁽⁵⁾	0.16 / 0.52	m / ft					
Output Wire Type / Connector	Double Insulated / MC4								
Output Wire Length	0.9 / 2.95	1.2 / 3.9	m / ft						
Operating Temperature Range ⁽⁶⁾	-40 - +85 / -40 - +185	°C / °F							
Protection Rating	IP68 / NEMA6P								
Relative Humidity	0 - 100	%							

(1) Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed

(2) NEC 2017 requires max input voltage be not more than 80V

(3) For other connector types please contact SolarEdge

(4) For dual version for parallel connection of two modules use P485-4NMDMRM. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer connected to one PV module. When connecting a single module seal the unused input connectors with the supplied pair of seals.

(5) Longer inputs wire length are available for use. For 0.9m input wire length order P401-xxxLxxx.

(6) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details.

PV System Design Using a SolarEdge Inverter ⁽⁷⁾⁽⁸⁾	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length (Power Optimizers)	P320, P340, P370, P400, P401	8	10	18	
	P405, P485, P505	6	8	14	
Maximum String Length (Power Optimizers)		25	25	50 ⁽⁹⁾	
Maximum Power per String	5700 (6000 with SE7600-US - SE11400-US)	5250	6000 ⁽¹⁰⁾	12750 ⁽¹¹⁾	W
Parallel Strings of Different Lengths or Orientations	Yes				

(7) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf

(8) It is not allowed to mix P405/P485/P505 with P320/P340/P370/P400/P401 in one string

(9) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement

(10) For 208V grid: it is allowed to install up to 6,500W per string when the maximum power difference between each string is 1,000W

(11) For 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W

DEEP BLUE 3.0

Mono

405 W MBB
Half-cell Black Module
JAM54S31 380-405/MR/1000V Series

Introduction

Assembled with 11BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



Higher output power



Lower LCOE



Less shading and lower resistive loss

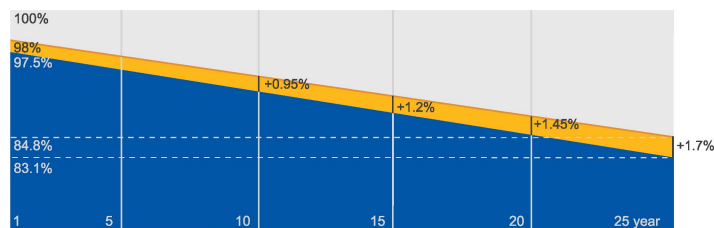


Better mechanical loading tolerance

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty

0.55% Annual Degradation
Over 25 years



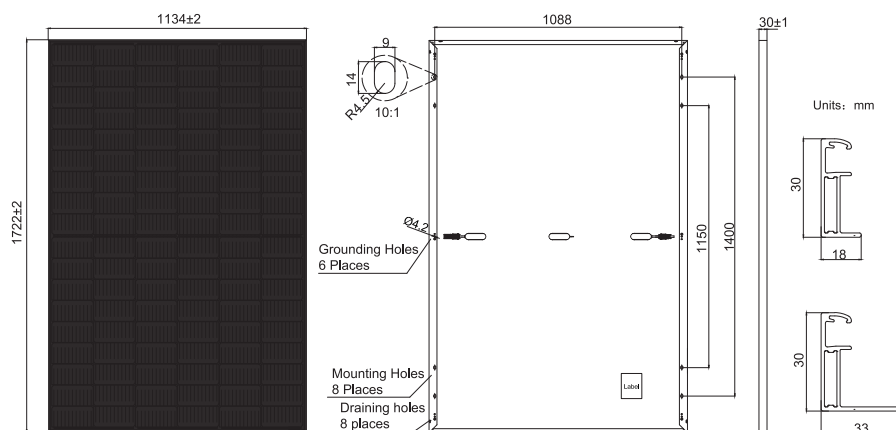
■ New linear power warranty ■ Standard module linear power warranty

Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems



MECHANICAL DIAGRAMS



SPECIFICATIONS

Cell	Mono
Weight	21.5kg±3%
Dimensions	1722±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC) , 12 AWG(UL)
No. of cells	108(6x18)
Junction Box	IP68, 3 diodes
Connector	Genuine MC4 QC4.10
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-)
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM54S31 -380/MR/1000V	JAM54S31 -385/MR/1000V	JAM54S31 -390/MR/1000V	JAM54S31 -395/MR/1000V	JAM54S31 -400/MR/1000V	JAM54S31 -405/MR/1000V
Rated Maximum Power(P _{max}) [W]	380	385	390	395	400	405
Open Circuit Voltage(V _{oc}) [V]	36.58	36.71	36.85	36.98	37.07	37.23
Maximum Power Voltage(V _{mp}) [V]	30.28	30.46	30.64	30.84	31.01	31.21
Short Circuit Current(I _{sc}) [A]	13.44	13.52	13.61	13.70	13.79	13.87
Maximum Power Current(I _{mp}) [A]	12.55	12.64	12.73	12.81	12.90	12.98
Module Efficiency [%]	19.5	19.7	20.0	20.2	20.5	20.7
Power Tolerance	0~+5W					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.275%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.350%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

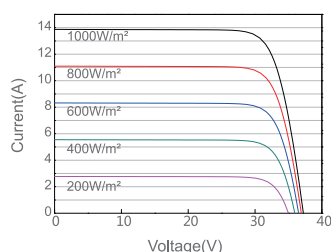
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.
Measurement tolerance at STC: P_{max} ±3%, V_{oc} ±3% and I_{sc} ±4%.

ELECTRICAL PARAMETERS AT NOCT

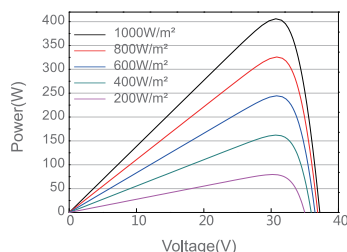
TYPE	JAM54S31 -380/MR/1000V	JAM54S31 -385/MR/1000V	JAM54S31 -390/MR/1000V	JAM54S31 -395/MR/1000V	JAM54S31 -400/MR/1000V	JAM54S31 -405/MR/1000V	OPERATING CONDITIONS
Rated Max Power(P _{max}) [W]	286	290	294	298	302	306	Maximum System Voltage 1000V DC(IEC)
Open Circuit Voltage(V _{oc}) [V]	34.36	34.49	34.62	34.75	34.88	35.12	Operating Temperature -40°C~+85°C
Max Power Voltage(V _{mp}) [V]	28.51	28.68	28.87	29.08	29.26	29.47	Maximum Series Fuse Rating 25A
Short Circuit Current(I _{sc}) [A]	10.75	10.82	10.89	10.96	11.03	11.10	Maximum Static Load, Front* 3600Pa, 1.5 Maximum Static Load, Back* 1600Pa, 1.5
Max Power Current(I _{mp}) [A]	10.03	10.11	10.18	10.25	10.32	10.38	NOCT 45±2°C
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G						Safety Class Class II
							Fire Performance UL Type 1

CHARACTERISTICS

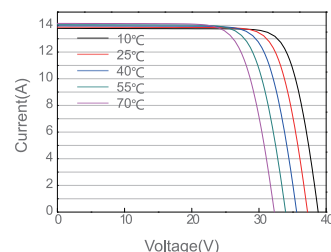
Current-Voltage Curve JAM54S31-405/MR/1000V



Power-Voltage Curve JAM54S31-405/MR/1000V



Current-Voltage Curve JAM54S31-405/MR/1000V



11/7/2025 07:38 AM

Subject: Structural Certification for Proposed Residential Solar Installation.

Job Number: 221R-257LEWI; Rev A3

Client: Freddy Lewis

Address: 257 Pine St, Springfield, MA 01105



SUNRUN

Attn: To Whom It May Concern

Exp. 6/30/2026
Digitally Signed On: 11/07/25

A field observation of the existing structure at the address indicated above was performed. Structural evaluation of the loading was based on the site observations and the design criteria listed below.

Design Criteria:

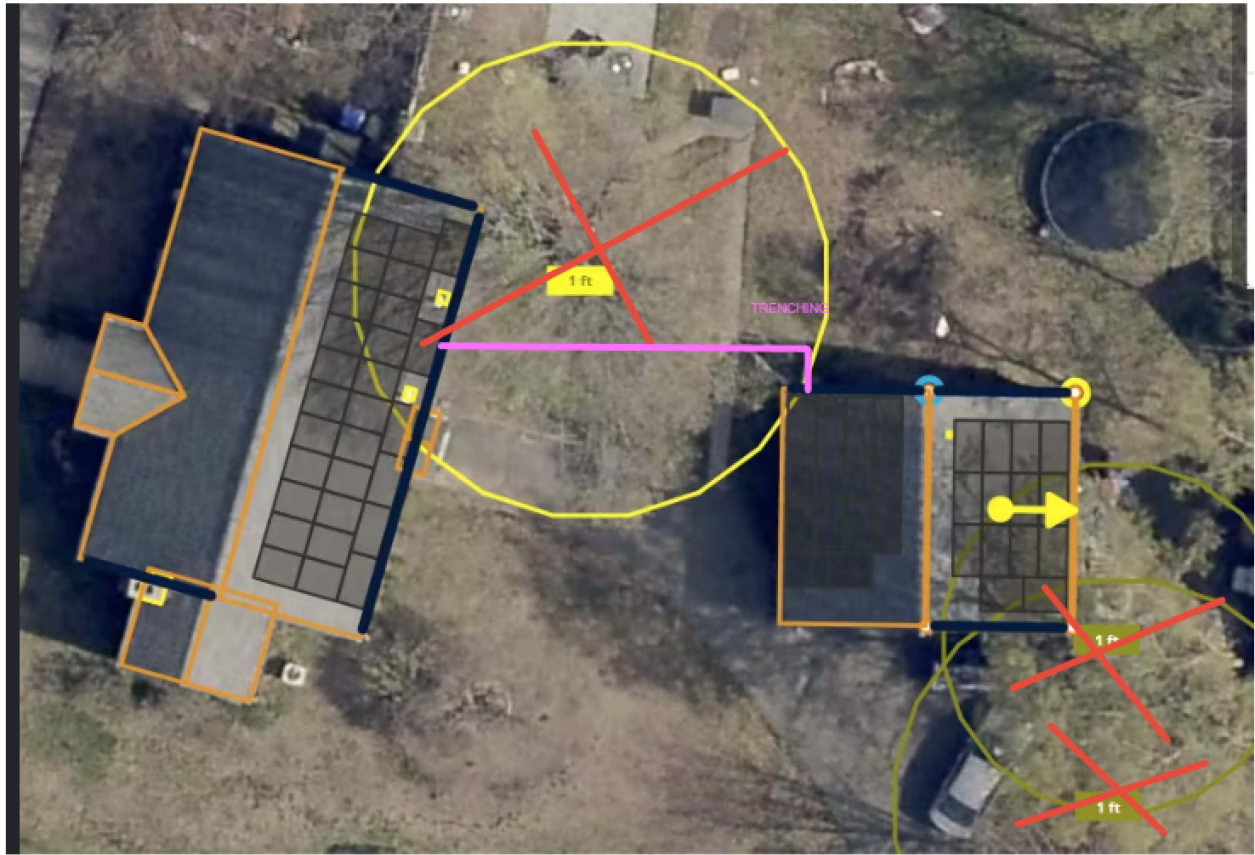
- MA 10TH ED. CMR 780 (2021 IRC/IBC/IEBC), 7-16 ASCE & 2018 NDS
- Basic (Category II) Wind Speed V=115 mph, Exposure B
- Ground Snow Load = 35 psf, Min Flat Roof Snow Load = 35 psf

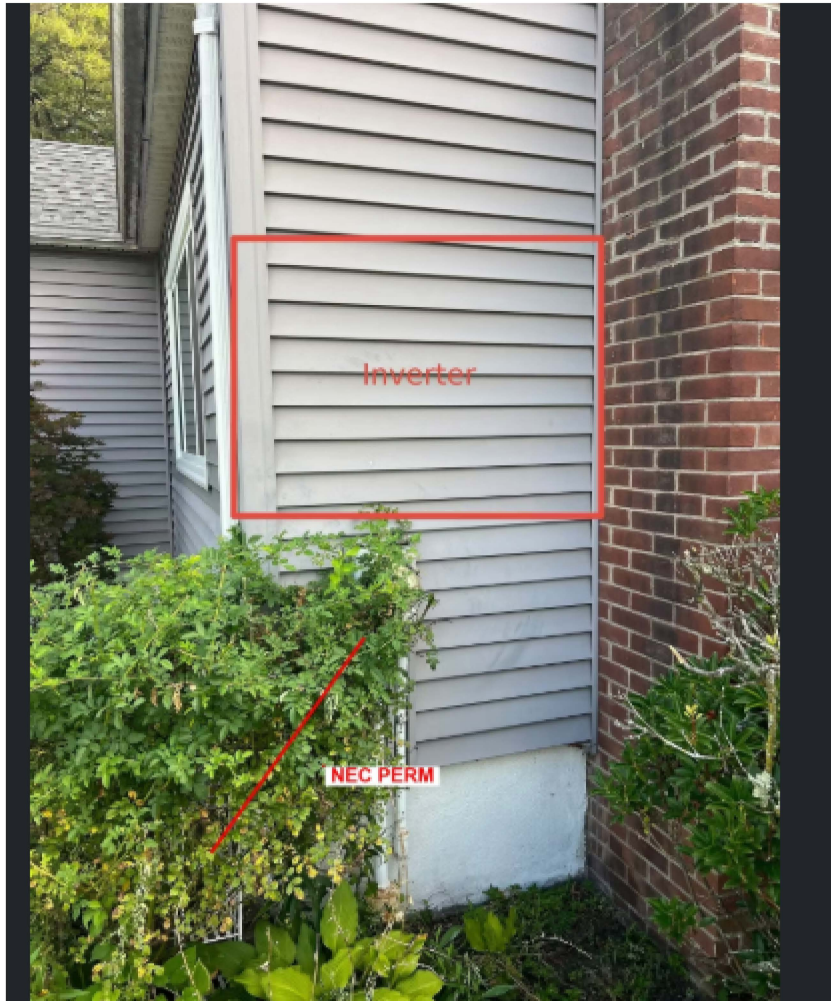
Based on this evaluation, I certify that the alteration to the existing structure by the installation of the PV system meets the requirements of the applicable existing and/or new building code provisions referenced above.

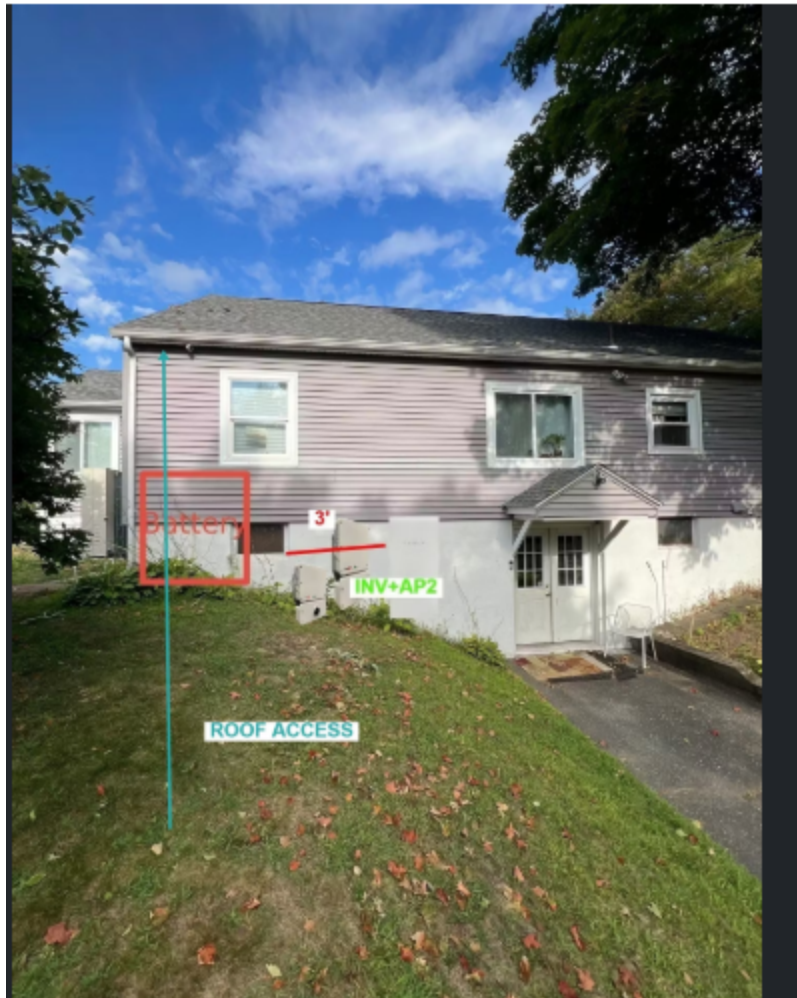
Additionally, I certify that the PV module assembly including all attachments supporting it have been reviewed to be in accordance with the manufacturer's specifications.

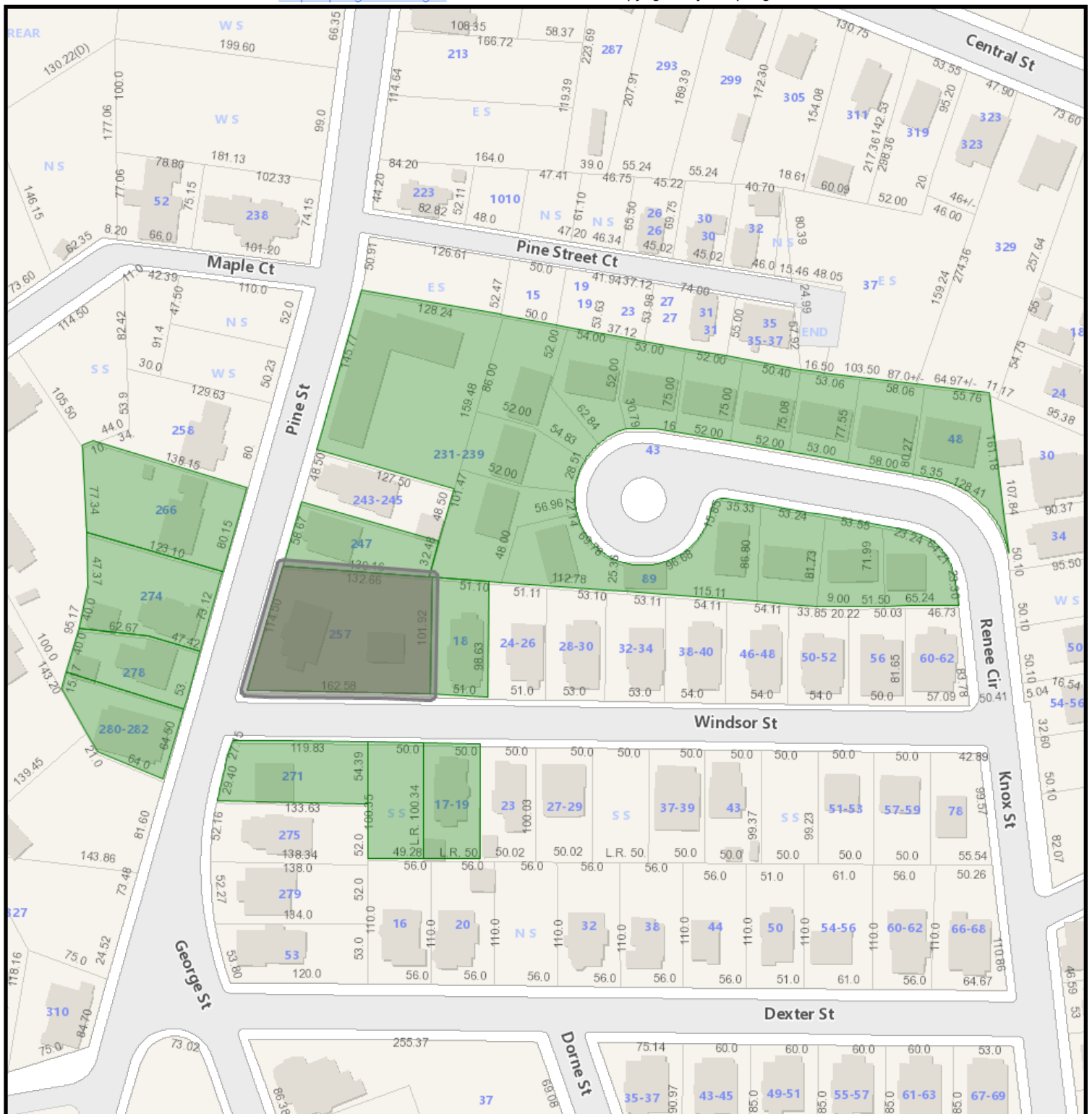
Results Summary (Hardware Check Includes Uplift Check on Attachments/Fastener, Structure Check Considers Main Structure)					
AR-01	Orientation	Attachment Spacing/Cantilever	Configuration	Max DCR	Result
	Landscape	64 / 25	Staggered	66%	Pass
	Portrait	48 / 24	Staggered	66%	Pass
	Roofing Material		Pitch	Structure Check	
	Comp Shingle		34°	Pass	
AR-02	Orientation	Attachment Spacing/Cantilever	Configuration	Max DCR	Result
	Landscape	64 / 25	Staggered	66%	Pass
	Portrait	48 / 24	Staggered	66%	Pass
	Roofing Material		Pitch	Structure Check	
	Comp Shingle		34°	Pass	
AR-03	Orientation	Attachment Spacing/Cantilever	Configuration	Max DCR	Result
	Landscape	64 / 25	Staggered	66%	Pass
	Portrait	48 / 24	Staggered	66%	Pass
	Roofing Material		Pitch	Structure Check	
	Comp Shingle		34°	Pass	











257 Pine Street GIS Map

11/12/2025 3:22:48 PM

Scale: 1"=125'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

097150070
BARTLETT JAMES L & LINDA
280 PINE ST
SPRINGFIELD, MA 01105

097150066
GARVIN CAROLYN A
266 PINE ST
SPRINGFIELD, MA 01105

123700005
GUZMAN-ALCEQUIEZ
18 WINDSOR ST
SPRINGFIELD, MA 01105

097150127
LEWIS FREDDY & LESLIE
257 PINE ST
SPRINGFIELD, MA 01105

123700024
MLB PROPERTY
44 LOOMIS ST
MALDEN, MA 02148

097150069
MONTEFORTE CATHY
278 PINE ST
SPRINGFIELD, MA 01105

097150128
RAGLAND ABIGAIL
247 PINE ST
SPRINGFIELD, MA 01105

097150124
RODRIGUEZ JENNIFER MARIE
271 PINE ST
SPRINGFIELD, MA 01105

123700025
SPRINGFIELD CITY OF
36 COURT ST
SPRINGFIELD, MA 01103

097150131
SPRINGFIELD HOUSING
25 SAAB CT
SPRINGFIELD, MA 01104

097150068
VAZQUEZ-NEGRON GABRIEL I
274 PINE ST
SPRINGFIELD, MA 01105



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 114 Harvard Street, Springfield, MA 01109

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST

☐

APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**

☐

PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.

☐

RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.

☐

PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*

☐

LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: McKnight	DECISION:
DATE RECEIVED: November 13, 2025	DECISION DATE:
HEARING DATE: December 4, 2025	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: November 20, 2025	WAIVED BY COMMISSION:
DATE NOTICE MAILED: November 20, 2025	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 114 Harvard Street, Springfield, MA 01109

APPLICATION TYPE Certificate of Appropriateness



CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.



CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.



CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).



ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.



PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.



PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.



MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).



SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00).



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 114 Harvard Street, Springfield, MA 01109		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: Charles Muthua		
OWNER ADDRESS: ☒ Check box if same as property address		
OWNER PHONE NUMBER: (781) 254-3806	REPRESENTATIVE/CONTRACTOR NAME: Trinity Solar/Michael Blanchard	
OWNER EMAIL ADDRESS: muthdee@yahoo.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: 413-203-9088	
PROPERTY CODE: 06380-0021	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: applications.westma@trinity-solar.com	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Due to high electrical bills, the homeowner proposes to have solar panels installed. Trinity Solar would be installing 5.33 kW DC (13 panels).		PROPOSED MODIFICATIONS (Please check all that apply) ☐ Windows (see Page 3) ☐ Doors (see Page 4) ☐ Siding (see Page 5) ☐ Roofing (see Page 6) ☒ Solar (see Page 6) ☐ Signs (see Page 7) ☐ Heat Pumps (see page 7) ☐ Paint (see Page 8) ☐ Renovations (e.g. Porches) (see Page 8) ☐ New Construction (all of the above) ☐ Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

☐ Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

Charles Muthua

Charles Muthua (Nov 12, 2025 20:26:20 EST)

PROPERTY OWNER'S SIGNATURE

11/12/2025

DATE

ROOFING



Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.



Check box indicating that you are submitting photographs of the existing roofing.

	EXISTING	PROPOSED
ROOF STYLE (e.g. gable, hip, mansard, etc):	Pitched	Pitched
MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	Asphalt	Asphalt
PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:		
PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING: Re-roof needed to install solar panels		
ADDITIONAL INFORMATION:		

SOLAR

WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?



YES (PLEASE PROVIDE MORE INFO ABOVE)



No



Check box indicating that you are submitting plans of the proposed solar project.



Check box indicating that you are submitting photographs of the existing roofing.

ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	Asphalt
NUMBER OF SOLAR POWERED PANELS:	26
SOLAR MANUFACTURER:	SolarEdge Technologies
LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):	12 panels on garage. 14 panels on east and west sides of house. All panels on roof.
LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):	West side of house
LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):	West side of house, disconnect on west side of garage.
LOCATION OF CONDUIT (e.g. side of building, inside the house):	Trench from west side of house to garage.
PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):	EMT type, silver



NJ, Electrical Contractor business permit number 34EB00839200

NJ, HIC reg. # 13VH12957000

For other jurisdictions, please visit: <http://www.trinity-solar.com/about-us/locations-and-licenses>**HOMEOWNER AUTHORIZATION FORM**

I, Charles Muthua,
(print name)

am the owner of the property located at address:

114 Harvard Street Springfield MA
(print address)

I hereby authorize Trinity Solar, LLC ("Trinity Solar") and its employees, agents, and subcontractors, to act as my Agent for the limited purpose of applying for and obtaining local building and other permits from the Authority Having Jurisdiction as required for the installation of a Photovoltaic System, Battery System, roofing or other Trinity Solar offerings located on my property, applying and obtaining permission and approval for interconnection with the electric utility company, and registration with any state and/or local incentive program(s).

This authorization includes the transfer/re-administering, and/or cancellation of any existing permits on file for the purpose of updating/applying with an alternate subcontractor.

Without limitation to the generality of the foregoing I specifically authorize Trinity Solar et al. to populate technical details, fill-in, edit, compile, attach drawings, plans, data sheets and other documentation to, date, submit, re-submit, revise, amend, and modify application, submission and certification documents ("Approvals Paperwork"), including those for which signature pages are included herewith for my signature, in furtherance of the related transaction, and I am providing any signatures to Approvals Paperwork for purposes of the foregoing. Trinity Solar will provide copies of Approvals Paperwork upon request by the homeowner. Should I cancel the project, for reasons within my control, after Trinity Solar has paid for any permitting fees, I shall reimburse Trinity Solar for all expenses incurred related hereto.

My authorizations memorialized herein shall remain in full force and effect until revoked. I acknowledge that these authorizations are not required to proceed with the transaction and are not a condition of the related agreement included herewith but are being given for my own convenience and benefit in order to expedite the approvals processes.

Electric Utility Company: Eversource (Formerly WMECO)

Electric Utility Account No.: 72000869627

Electric Meter No.: 988772262

Name on Electric Utility Account: Dorcas Hudson


Charles Muthua (Oct 14, 2025 18:06:01 EDT)

Customer Signature
Charles Muthua

Print Name
Oct 14, 2025

Date

Corporate Headquarters

2211 Allenwood Road
Wall, New Jersey 07719
www.Trinity-Solar.com

1-877-SUN-SAVES

Ph: 732-780-3779
Fax: 732-780-6671

**FOR INFORMATION ABOUT CONTRACTORS AND THE CONTRACTORS' REGISTRATION ACT,
CONTACT THE NEW JERSEY DEPARTMENT OF LAW AND PUBLIC SAFETY,
DIVISION OF CONSUMERS AFFAIRS AT 1-888-656-6225.**

INSTALLATION OF NEW ROOF MOUNTED PV SOLAR SYSTEM

114 HARVARD STREET
SPRINGFIELD, MA 01109

HARVARD STREET ●



 VICINITY MAP
SCALE: NTS

SITE

GENERAL NOTES

1. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTIONS CONTAINED IN THE DRAWING PACKAGE AND INFORMATION RECEIVED FROM TRINITY.
2. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTION CONTAINED IN THE COMPLETE MANUAL.
3. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING ALL DRAWINGS, COMPONENT AND INVERTER MANUALS PRIOR TO INSTALLATION. THE INSTALLATION CONTRACTOR IS ALSO REQUIRED TO HAVE ALL COMPONENT SWITCHES IN THE OFF POSITION AND FUSES REMOVED PRIOR TO THE INSTALLATION OF ALL FUSE BEARING SYSTEM COMPONENTS.
4. ONCE THE PHOTOVOLTAIC MODULES ARE MOUNTED, THE INSTALLATION CONTRACTOR SHOULD HAVE A MINIMUM OF ONE ELECTRICIAN WHO HAS ATTENDED A SOLAR PHOTOVOLTAIC INSTALLATION COURSE ON SITE.
5. FOR SAFETY, IT IS RECOMMENDED THAT THE INSTALLATION CREW ALWAYS HAVE A MINIMUM OF TWO PERSONS WORKING TOGETHER AND THAT EACH OF THE INSTALLATION CREW MEMBERS BE TRAINED IN FIRST AID AND CPR.
6. THIS SOLAR PHOTOVOLTAIC SYSTEM IS TO BE INSTALLED FOLLOWING THE CONVENTIONS OF THE NATIONAL ELECTRICAL CODE. ANY LOCAL CODE WHICH MAY SUPERSEDE THE NEC SHALL GOVERN.
7. ALL SYSTEM COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE "UL" LISTED. ALL EQUIPMENT WILL BE NEMA 3R OUTDOOR RATED UNLESS INDOORS.

GENERAL NOTES

IF ISSUED DRAWING IS MARKED WITH A REVISION CHARACTER OTHER THAN "A", PLEASE BE ADVISED THAT FINAL EQUIPMENT AND/OR SYSTEM CHARACTERISTICS ARE SUBJECT TO CHANGE DUE TO AVAILABILITY OF EQUIPMENT.

GENERAL NOTES CONTINUED

8. THE DC VOLTAGE FROM THE PANELS IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. ALL PERSONS WORKING ON OR INVOLVED WITH THE PHOTOVOLTAIC SYSTEM ARE WARNED THAT THE SOLAR MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT.
9. ALL PORTIONS OF THIS SOLAR PHOTOVOLTAIC SYSTEM SHALL BE MARKED CLEARLY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 690 & 705.
10. PRIOR TO THE INSTALLATION OF THIS PHOTOVOLTAIC SYSTEM, THE INSTALLATION CONTRACTOR SHALL ATTEND A PRE-INSTALLTION MEETING FOR THE REVIEW OF THE INSTALLATION PROCEDURES, SCHEDULES, SAFETY AND COORDINATION.
11. PRIOR TO THE SYSTEM START UP THE INSTALLATION CONTRACTOR SHALL ASSIST IN PERFORMING ALL INITIAL HARDWARE CHECKS AND DC WIRING CONDUCTIVITY CHECKS.
12. FOR THE PROPER MAINTENANCE AND ISOLATION OF THE INVERTERS REFER TO THE ISOLATION PROCEDURES IN THE OPERATION MANUAL.
13. THE LOCATION OF PROPOSED ELECTRIC AND TELEPHONE UTILITIES ARE SUBJECT TO FINAL APPROVAL OF THE APPROPRIATE UTILITY COMPANIES AND OWNERS.
14. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
 - A) CURRENT PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS AND REQUIREMENTS

GENERAL NOTES CONTINUED

14. B) CURRENT PREVAILING UTILITY COMPANY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS
15. THIS SET OF PLANS HAVE BEEN PREPARED FOR THE PURPOSE OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. ONCE APPROVED, THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL SYSTEM COMPONENTS AS DESCRIBED IN THE DRAWING PACKAGE.
16. ALL INFORMATION SHOWN MUST BE CERTIFIED PRIOR TO USE FOR CONSTRUCTION ACTIVITIES.

ABBREVIATIONS

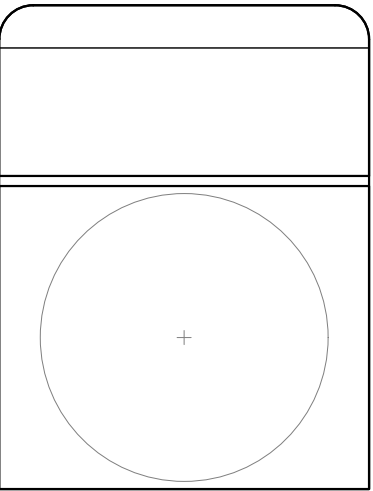
AMP	AMPERE
AC	ALTERNATING CURRENT
AL	ALUMINUM
AF	AMP. FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT (GENERIC TERM OF RACEWAY, PROVIDE AS SPECIFIED)
CB	COMBINER BOX
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT SWITCH
DWG	DRAWING
EC	ELECTRICAL SYSTEM INSTALLER
EMT	ELECTRICAL METALLIC TUBING
FS	FUSIBLE SWITCH
FU	FUSE
GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HZ	FREQUENCY (CYCLES PER SECOND)

ABBREVIATIONS CONTINUED

JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILO-VOLT AMPERE
KW	KILO-WATT
KWH	KILO-WATT HOUR
L	LINE
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MTD	MOUNTED
MTG	MOUNTING
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO #	NUMBER
NTS	NOT TO SCALE
OCP	OVER CURRENT PROTECTION
P	POLE
PB	PULL BOX
PH Ø	PHASE
PVC	POLY-VINYL CHLORIDE CONDUIT
PWR	POWER
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
SN	SOLID NEUTRAL
JSWBD	SWITCHBOARD
TYP	TYPICAL
U.O.I.	UNLESS OTHERWISE INDICATED
WP	WEATHERPROOF
XFMR	TRANSFORMER
+72	MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE

SHEET INDEX

PV-1	COVER SHEET W/ SITE INFO & NOTES
PV-2	ROOF PLAN W/ MODULE LOCATIONS
PV-3	PROPERTY LINE
PV-4	ELECTRICAL 3 LINE DIAGRAM
AP	APPENDIX



Issued / Revisions

P1	ISSUED TO TOWNSHIP FOR PERMIT	10/31/2025
NO.	DESCRIPTION	DATE

Project Title:

MUTHUA, CHARLES

TRINITY ACCT #: 2025-08-1387576

Project Address:

114 HARVARD STREET
SPRINGFIELD, MA 01109
42.1177, -72.5722

Drawing Title:

PROPOSED PV SOLAR SYSTEM

Drawing Information

DRAWING DATE:	10/31/2025
DRAWN BY:	MR
REVISED BY:	

System Information:

DC SYSTEM SIZE:	5.33kW
AC SYSTEM SIZE:	5.76kW
MODULE COUNT:	13
MODULES USED:	HANWHA 410
MODULE SPEC #:	Q.PEAK DUO BLK ML-G10.C+ 410
UTILITY COMPANY:	EVERSOURCE
UTILITY ACCT #:	72000869627
UTILITY METER #:	988772262
DEAL TYPE:	GOODLEAP

Rev. No.	Sheet
P1	PV - 1



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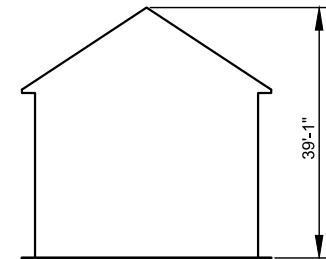
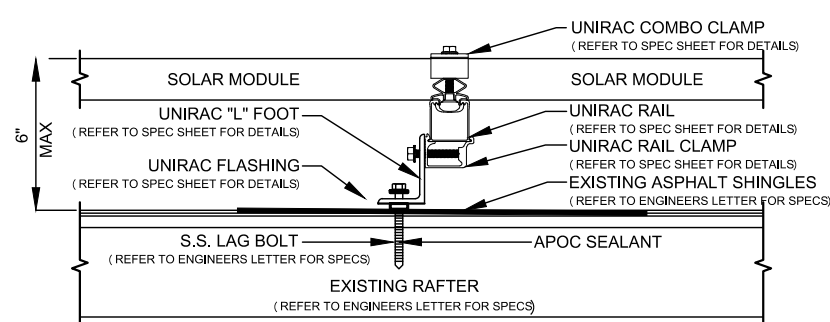
NEW PV SOLAR MODULE, TYPICAL
(REFER TO EQUIPMENT SCHEDULE
FOR SPECS AND QUANTITIES)

NEW MOUNTING FOOT/ ATTACHMENT
POINTS, TYPICAL (REFER TO
ENGINEERING LETTER FOR SPACING
AND DETAILS)

NEW UNIRAC RAIL, TYPICAL
TO BE MOUNTED PERPENDICULAR TO
STRUCTURE (REFER TO UNIRAC
SPECIFICATION / DATA SHEET FOR
DETAILS)

NEW END CLIP, TYPICAL
(REFER TO UNIRAC SPECIFICATION /
DATA SHEET FOR DETAILS)

NEW MID CLIP, TYPICAL
(REFER TO UNIRAC SPECIFICATION /
DATA SHEET FOR DETAILS)



ARRAY SCHEDULE

ROOF 27
MODULES: 0
PITCH: 18°
ORIENTATION: 332°

The diagram shows a complex environment with five rooms and a data center (DC). Room R1 is a long horizontal corridor at the bottom. Room R2 is a vertical corridor on the right. Room R3 is a large triangular room at the top right. Room R4 is a small room in the center. Room R5 is a large room on the left. A DC source is located at the top left. The rooms are separated by walls, and the DC source is connected to the environment via a cloud icon.

- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2.) ARRAY BONDING TO COMPLY WITH MANUFACTURER SPECIFICATION.
- 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
- 4.) AN AC DISCONNECT SHALL BE GROUPED WITH INVERTER (S) NEC 690.13 (E) .
- 5.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN TIGHT WITH MINIMUM NEMA 3R RATING.
- 6.) ROOFTOP SOLAR INSTALLATION ONLY PV ARRAY SHALL NOT EXTEND BEYOND THE EXISTING ROOF EDGE.

SYMBOL LEGEND					
	INDICATES ROOF DESIGNATION . REFER TO ARRAY SCHEDULE FOR MORE INFORMATION		INDICATES NEW UNFUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)		INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED
	INDICATES EXISTING METER LOCATION		INDICATES NEW PV SOLAR MODULE. RED MODULES INDICATE PANELS THAT USE MICRO INVERTERS. REFER TO EQUIPMENT SCHEDULE FOR SPECS.		INDICATES NEW DC DISCONNECT
	INDICATES EXISTING ELECTRICAL PANEL LOCATION: INSIDE		INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.		INDICATES EXISTING SERVICE DISCONNECT
	INDICATES NEW FUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)		INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS		INDICATES EXISTING TRANSFER SWITCH

PLUMBING SCHEDULE	EQUIPMENT SCHEDULE	
	QTY	SPEC #
	13	HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)
	1	USE5700H-USMNB78
	13	U650 SE OPTIMIZERS
	8	UNIRAC 171RLM1-US NXT UMount RAIL - 171" MILL (US)
OTHER OBSTRUCTIONS	3	UNIRAC RLSPLCM2-US NXT UMount RAIL SPLICE (US)

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UTILITY COMPANY:	EVERSOURCE
UTILITY ACCT #:	72000869627
UTILITY METER #:	988772262
DEAL TYPE:	GOODLEAP

P1

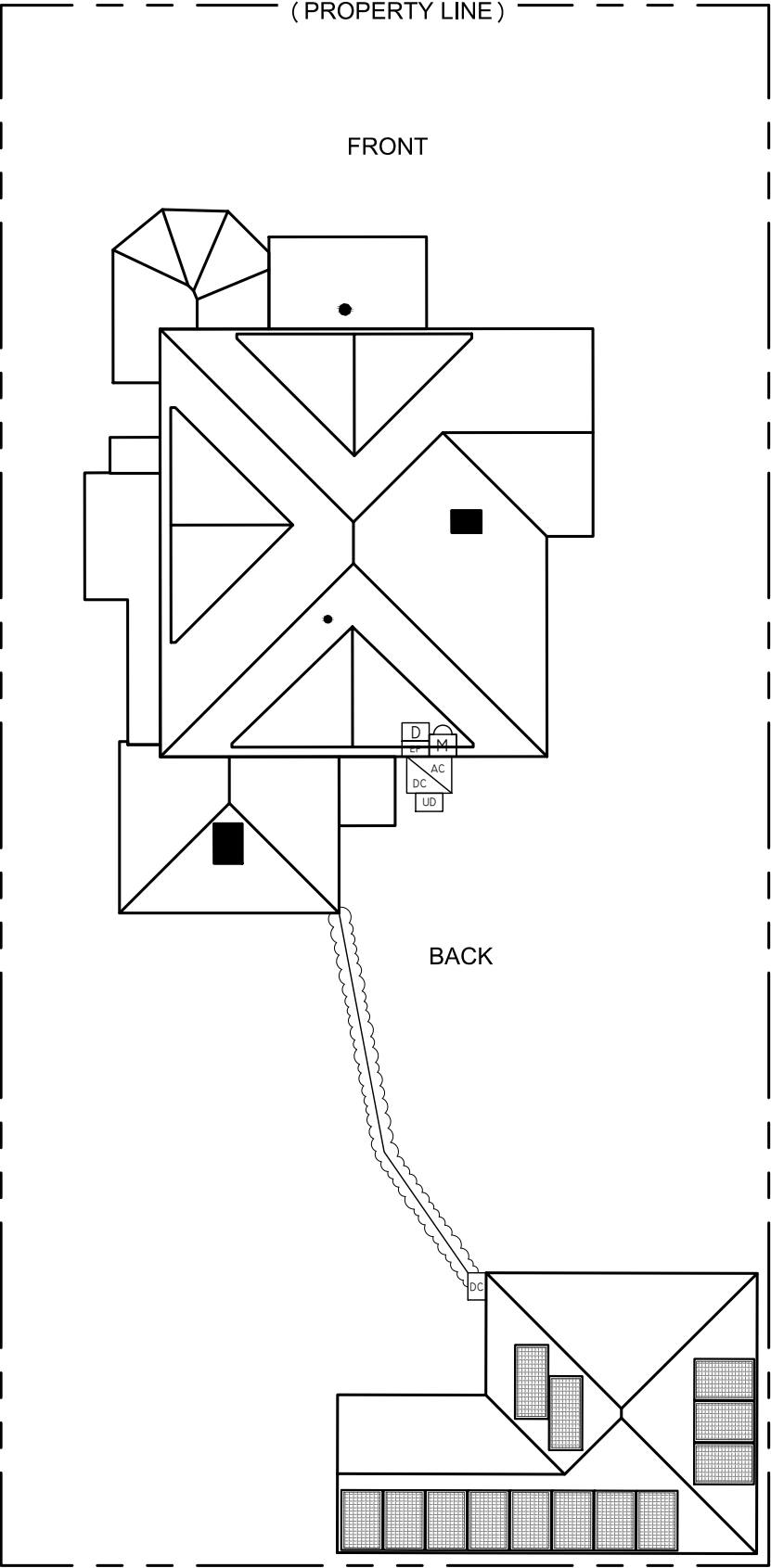
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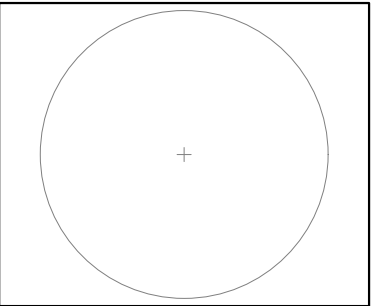
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Engineer / License Holder:



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UTILITY METER #:	988772262
DEAL TYPE:	GOODLEAP

Rev. No.	Sheet
P1	PV - 3

ARRAY CIRCUIT WIRING NOTES
1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ONSITE CONDITIONS AND EXECUTING INSTALLATION IN ACCORDANCE WITH
NEC 2023

2.) LOWEST EXPECTED AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP = -16°C

3.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMP = 33°C

4.) 2005 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN A ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES)

5.) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION THAT CONTROLS SPECIFIC CONDUCTORS IN ACCORDANCE WITH **NEC 690.12(A) THROUGH (D)**

6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT PER **NEC 690.41 (A)(4)**

7.) UNGROUNDED DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED WITH THE FOLLOWING OUTER FINISH:
POSITIVE CONDUCTORS = RED
NEGATIVE CONDUCTORS = BLACK
NEC 210.5(C)(2)

8.) ARRAY AND SUB ARRAY CONDUCTORS SHALL BE #10 PV WIRE TYPE RHW-2 OR EQUIVELANT AND SHALL BE PROTECTED BY CONDUIT WHERE EXPOSED TO DIRECT SUNLIGHT. SUB ARRAY CONDUIT LONGER THAN 24" SHALL CONTAIN ≤ 20 CURRENT CARRYING CONDUCTORS AND WHERE EXPOSED TO DIRECT SUNLIGHT SHALL CONTAIN ≤ 9 CURRENT CARRYING CONDUCTORS.

9.) ALL WIRE LENGTHS SHALL BE LESS THAN 100' UNLESS OTHERWISE NOTED

10.) FLEXIBLE CONDUIT SHALL NOT BE INSTALLED ON ROOFTOP AND SHALL BE LIMITED TO 12" IF USED OUTDOORS

11.) DISCONNECTS FED BY SUPPLY-SIDE SOURCE CONDUCTORS SHALL BE BONDED AND CONNECTED TO GROUNDING SYSTEM IN ACCORDANCE WITH **NEC 250.24**

12.) OVERCURRENT PROTECTION FOR CONDUCTORS CONNECTED TO THE SUPPLY SIDE OF A SERVICE SHALL BE LOCATED WITHIN 10' OF THE POINT OF CONNECTION **NEC 690.9(A)(3)(2)**

13.) WHERE TWO SOURCES FEED A BUSSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKER(S) SHALL BE LOCATED OPPOSITE FROM UTILITY **NEC 705.12(B)(2)**

14.) ALL SOLAR SYSTEM LOAD CENTERS TO CONTAIN ONLY GENERATION CIRCUITS AND NO UNUSED POSITIONS OR LOADS

15.) ALL EQUIPMENT INSTALLED OUTDOORS SHALL HAVE A **NEMA 3R** RATING

CALCULATIONS FOR CURRENT CARRYING CONDUCTORS
REQUIRED CONDUCTOR AMPACITY PER STRING
[NEC 690.8(B)(1)]: (15.00*1.25)1 = 18.75A

AWG #10, DERATED AMPACITY
AMBIENT TEMP: 33°C, TEMP DERATING FACTOR: .96
RACEWAY DERATING = 2 CCC: 1.00
(40*.96)1.00 = 38.40A

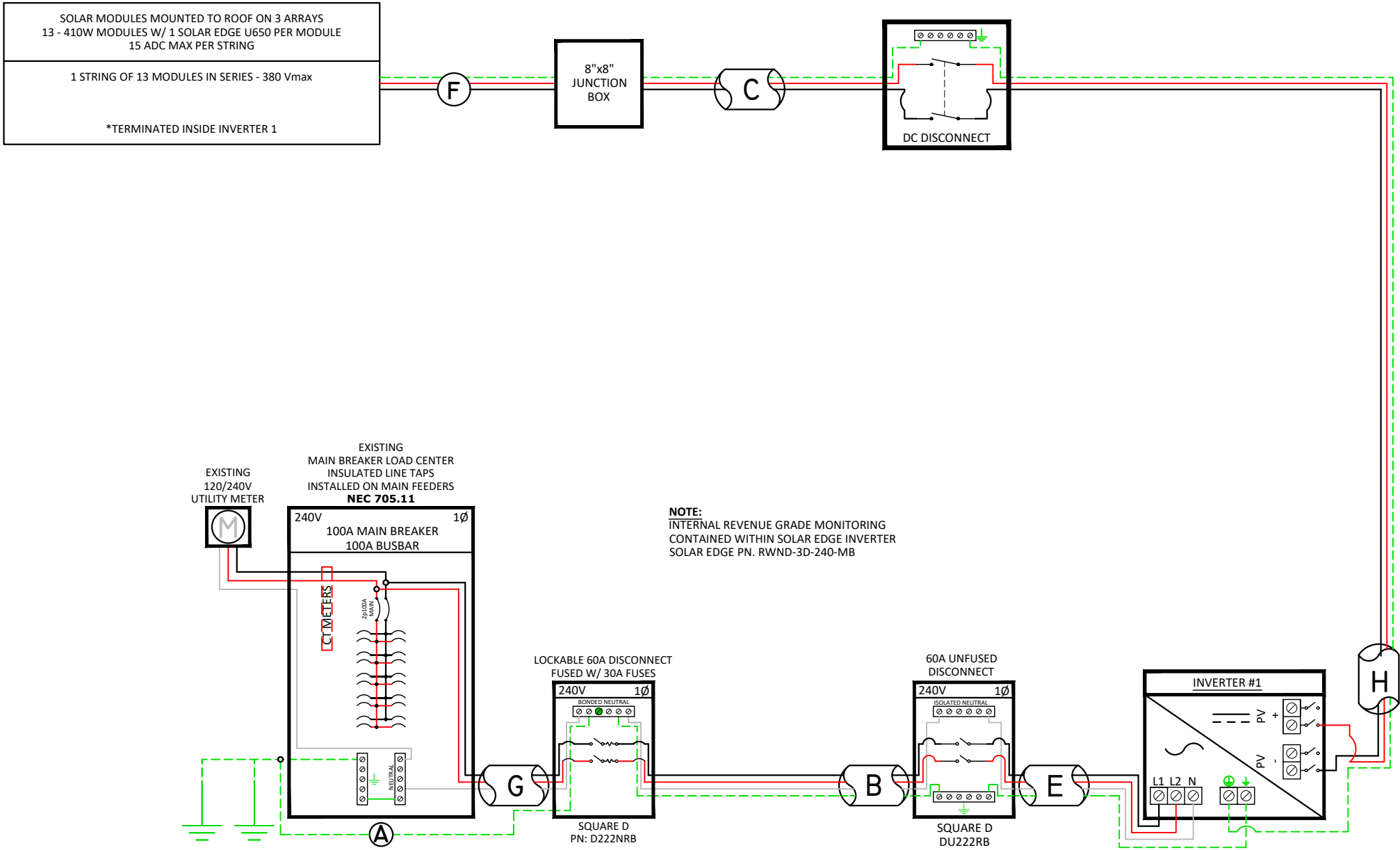
38.40A ≥ 18.75A, THEREFORE WIRE SIZE IS VALID

TOTAL AC REQUIRED CONDUCTOR AMPACITY
24.00A*1.25 = 30.00A

AWG #10, DERATED AMPACITY
AMBIENT TEMP: 30°C, TEMP DERATING: 1.0
RACEWAY DERATING ≤ 3 CCC: N/A
40A*1.0 = 40A

40A ≥ 30.00A, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION
TOTAL INVERTER CURRENT: 24.00A
24.00A*1.25 = 30.00A
--> 30A OVERCURRENT PROTECTION IS VALID



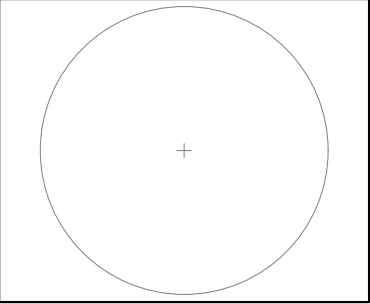
PV MODULE SPECIFICATIONS	
HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)	
Imp	10.89
Vmp	37.64
Voc	45.37
Isc	11.2

INVERTER #1 - USE5700H-USMNBET8			
DC		AC	
Imp	14.03	Pout	5760
Vmp	380	Imax	24
Voc	480	OCpDmin	30
Isc	15	Vnom	240

NOTE: CONDUIT TYPE SHALL BE CHOSEN BY THE INSTALLATION CONTRACTOR TO MEET OR EXCEED NEC AND LOCAL AHJD REQUIREMENTS

A	#6 THWN-2 TO GEC	G	3/4" CONDUIT W/ 2-#6 THWN-2, 1-#6 THWN-2
B	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND	H	1" PVC W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND (TRENCHED APPROX. 25')
C	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND		
D	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND		
E	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND		
F	#10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY		

Engineer / License Holder:



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MODULE SPEC #: Q.PEAK DUO BLK ML-G10.C+ 410
UTILITY COMPANY: EVERSOURCE
UTILITY ACCT #: 72000869627
UTILITY METER #: 988772262
DEAL TYPE: GOODLEAP

Rev. No.

P1

Sheet

PV - 4

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- NOTES:**
- 1.) COMPLIES WITH NEC 2023
 - 2.) REFER TO SHEET PV-3 FOR SITE SPECIFIC VALUES REQUIRED BY NEC 690
 - 3.) STICKERS, LABELS, AND PLACKARDS SHALL BE OF SUFFICIENT DURRABILITY TO WITHSTAND THE ENVIROMENT INVOLVED

To be located on all DC junction boxes
and every 10' on DC conduit

**WARNING: PHOTOVOLTAIC
POWER SOURCE**

NEC 690.31(D)(2)



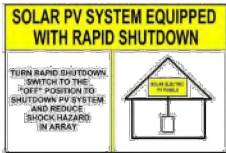
DC Junction Box



Soladeck



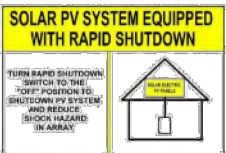
DC Conduit



NEC 690.13



Service Disconnect



NEC 690.13

If System is Backfed Breaker

WARNING
UNEXPECTED CONTACT HAZARD. DO NOT
RELOCATE THIS DISCONNECT BRIDGE.

NEC 705.12(B)(2)

PHOTOVOLTAIC AC DISCONNECT
DANGER: AC OVER 120 VOLTS
DANGER: AC OVER 120 VOLTS

NEC 690.4(B)



Main Service Panel

WARNING: DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

Utility



Utility Meter
Socket

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

NEC 690.13(B)



Solar Meter Socket

**RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM**

690.56(D)(2)

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

NEC 690.13(B)

PHOTOVOLTAIC AC DISCONNECT
DANGER: AC OVER 120 VOLTS
DANGER: AC OVER 120 VOLTS

NEC 690.4(B)



Photovoltaic
AC Disconnect

PHOTOVOLTAIC AC DISCONNECT
DANGER: AC OVER 120 VOLTS
DANGER: AC OVER 120 VOLTS

NEC 690.4(B)



Load Center
(To Combine Inverters)

**RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM**

690.56(D)(2)

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

NEC 690.13(B)

**PHOTOVOLTAIC
DC DISCONNECT**

NEC 690.4(B)

**MAXIMUM DC VOLTAGE
OF PV SYSTEM**

NEC 690.7(D)



Inverter(s)



**PHOTOVOLTAIC
DC DISCONNECT**

NEC 690.4(B)

**MAXIMUM DC VOLTAGE
OF PV SYSTEM**

NEC 690.7(D)



DC Disconnect

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

NEC 690.13(B)



Enphase Envoy Box

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Q.PEAK DUO BLK ML-G10+ SERIES

395-415 Wp | 132 Cells
21.1% Maximum Module Efficiency
Domestic Content Option Available

MODEL *Q.PEAK DUO BLK ML-G10+
Q.PEAK DUO BLK ML-G10.C+



Includes Domestic Content
This product contains U.S. manufactured components which can contribute to qualifying for the 10% domestic content bonus to applicable tax credits under the Inflation Reduction Act of 2022.¹



Breaking the 21% efficiency barrier
Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.1%.



A reliable investment
Inclusive 25-year product warranty and 25-year linear performance warranty.²



Enduring high performance
Long-term yield security with Anti LeTID Technology, Anti PID Technology³ and Hot-Spot Protect.



Extreme weather rating
High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



Far beyond the standard
Qcells' comprehensive quality program ensures high long-term yields and the reliability of your solar system.

¹ This statement should not be relied on as tax advice and is subject to change based on changes made to the Inflation Reduction Act and its implementing rules and regulations. Please consult a qualified tax professional for specific guidance.
² See data sheet on rear for further information.
³ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96 h)

The ideal solution for:
Rooftop arrays on residential buildings

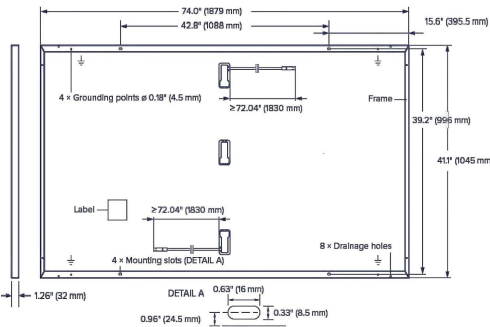
*DCA Module Option:
DCA 17 module has material code 'MD06G100A-017' printed on the module power label.



Q.PEAK DUO BLK ML-G10+ SERIES

Mechanical Specification

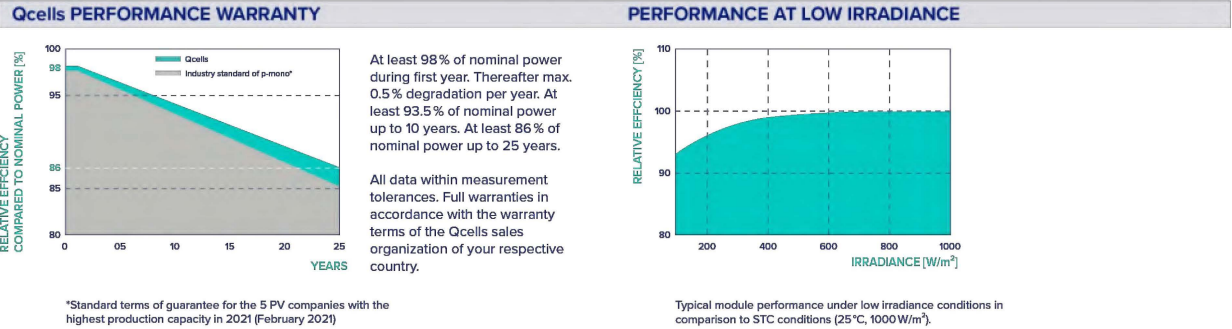
Format	74.0 in × 41.1 in × 1.26 in (including frame) (1879 mm × 1045 mm × 32 mm)
Weight	48.5 lbs (22.0 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 72.04 in (1830 mm), (-) ≥ 72.04 in (1830 mm)
Connector	Stäubli MC4; IP68



Electrical Characteristics

POWER CLASS			395	400	405	410	415
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W/-0 W)							
Minimum	Power at MPP ¹	P _{MPP} [W]	395	400	405	410	415
	Short Circuit Current ¹	I _{SC} [A]	11.10	11.14	11.17	11.20	11.23
	Open Circuit Voltage ¹	V _{OC} [V]	45.27	45.30	45.34	45.37	45.41
	Current at MPP	I _{MPP} [A]	10.71	10.77	10.83	10.89	10.95
	Voltage at MPP	V _{MPP} [V]	36.88	37.13	37.39	37.64	37.89
	Efficiency ¹	η [%]	≥20.1	≥20.4	≥20.6	≥20.9	≥21.1
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²							
Minimum	Power at MPP	P _{MPP} [W]	296.3	300.1	303.8	307.6	311.3
	Short Circuit Current	I _{SC} [A]	8.95	8.97	9.00	9.03	9.05
	Open Circuit Voltage	V _{OC} [V]	42.69	42.72	42.76	42.79	42.83
	Current at MPP	I _{MPP} [A]	8.46	8.51	8.57	8.62	8.68
	Voltage at MPP	V _{MPP} [V]	35.03	35.25	35.46	35.68	35.89

¹Measurement tolerances P_{MPP} ± 3%; I_{SC}; V_{OC} ± 5% at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • ²800 W/m², NMOT, spectrum AM 1.5



TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of V _{OC}	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3 °C)

Properties for System Design

Maximum System Voltage	V _{sys} [V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2
Max. Design Load, Push/Pull ³	[lbs/ft ²]	75 (3600 Pa)/55 (2660 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push/Pull ³	[lbs/ft ²]	113 (5400 Pa)/84 (4000 Pa)		

³ See Installation Manual

Qualifications and Certificates

UL61730-1 & UL61730-2, CE-compliant,
IEC 61215:2016, IEC 61730:2016,
U.S. Patent No. 9,893,215 (solar cells),



*Contact your Qcells Sales Representative for details regarding the module's eligibility to be Buy American Act (BAA) compliant.

Qcells pursues minimizing paper output in consideration of the global environment.
Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.
Hanwha Q CELLS America Inc. 300 Spectrum Center Drive, Suite 500, Irvine, CA 92618, USA | TEL +1 (949) 748 5996 | EMAIL na.support@qcells.com | WEB www.qcells.com



/ SolarEdge Home Hub Inverter

USA Domestic Content Eligible

Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	USExxxxH-USMNB78					
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US	
OUTPUT – AC ON GRID						
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	7600 @ 240V 6600 @208V	10,000 @ 240V 8700 @ 208V	11,400 @ 240V 10,000 @ 208V	W
AC Output Voltage (Nominal)	208 / 240					Vac
AC Output Voltage (Range)	183 – 264					Vac
AC Frequency Range (min - nom - max)	59.3 – 60 – 60.5 ⁽²⁾					Hz
Maximum Continuous Output Current	16	24	32	42	47.8	A
Maximum Fault Current / Duration	74 / 50					Aac / μs
GFDI Threshold	1					A
Total Harmonic Distortion (THD)	< 3					%
Power Factor	1, adjustable -0.85 to 0.85					
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes					
Charge Battery from AC (if allowed)	Yes					
Typical Nighttime Power Consumption	< 2.5					W
OUTPUT – AC STANDALONE (BACKUP) ⁽³⁾						
Rated AC Power in Standalone Operation ⁽⁴⁾	12,500 ⁽⁵⁾⁽⁶⁾					W
Maximum Continuous Output Current in Standalone Operation	52					A
Locked Rotor Amperage (LRA) ⁽⁷⁾	Up to 106					A
AC L-L Output Voltage Range in Standalone Operation	211 – 264					Vac
AC L-N Output Voltage Range in Standalone Operation	105 – 132					Vac
AC Frequency Range in Standalone Operation (min - nom - max)	55 – 60 – 65					Hz
GFDI	1					A
THD	< 5					%
INPUT – DC (PV AND BATTERY)						
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage	480					Vdc
Nominal DC Input Voltage	380					Vdc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	600kΩ Sensitivity					
Maximum Input Short Circuit Current	45					Adc
Maximum Inverter Efficiency	99.2					%
CEC Weighted Efficiency	98.5	99			99 @ 240V 98.5 @ 208V	%
2-Pole Disconnection	Yes					
DC CONNECTION – PV						
Maximum Input Power	7600 @ 240V 6600 @ 208V	11,520 @ 240V 10,000 @ 208V	15,200 @ 240V 13,200 @ 208V	20,000 @ 240V 17,400 @ 208V	22,800 @ 240V 20,000 @ 208V	W
Maximum Input Current	20 @ 240V 17 @ 208V	30 @ 240V 26 @ 208V	40 @ 240V 35 @ 208V	53 @ 240V 46 @ 208V	60 @ 240V 53 @ 208V	Adc
Number of Ports	3					
Maximum Current per Port	40					Adc

(1) These specifications apply to inverters with part number SExxxxH-USMNB78 and connection unit model number DCD-1PH-US-PxH-F-x.
(2) For other regional settings please refer to the [SolarEdge Inverters, Power Control Options](#) application note.
(3) Not designed for non-grid connected applications and requires AC for commissioning. Standalone (backup) functionality is only supported for the 240V grid.
(4) For models SE7600H-US and below, the Rated AC Power in Standalone Operation is configurable between 7,600W with a Maximum Continuous Output Current of 32A or 12,500W with a Maximum Continuous Output Current of 52A, from firmware version 4.23.xx.
(5) Operational only at ambient temperatures up to 86°F / 30°C. Above 86°F / 30°C, the Maximum Rated AC Power in Standalone Operation is 11,400W.
(6) Available only for single inverter installations. In multi-inverter installations, the Maximum Rated AC Power in Standalone Operation is 11,400W.
(7) For more information about LRA (Locked Rotor Amperage) values, see the [SolarEdge Home Hub Inverter LRA](#) application note.

/ SolarEdge Home Hub Inverter

USA Domestic Content Eligible

Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	USExxxxH-USMNB78					
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US	
DC CONNECTION – BATTERY						
Supported Battery Types	SolarEdge Home Battery 400V					
Number of Batteries per Inverter	Up to 3					
Maximum Continuous Power (Charge and Discharge) ⁽⁸⁾	12,500					W
Number of Ports	2					
Maximum Current per Port	40					Adc
2-pole Disconnection	Up to the inverter's rated standalone power					
SMART ENERGY CAPABILITIES						
Consumption Metering	Built-in ⁽⁹⁾					
Standalone & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; up to 3 inverters					
EV Charging	Direct connection to the SolarEdge Home EV Charger ⁽¹⁰⁾					
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁽¹¹⁾ , Wi-Fi (optional) ⁽¹²⁾ , SolarEdge Home Network ⁽¹³⁾ (optional)					
Revenue Grade Metering, ANSI C12.20	Built-in ⁽⁹⁾					
Integrated AC, DC, and Communication Connection Unit	Yes					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection					
DC Voltage Rapid Shutdown (PV and Battery)	Yes, NEC 690.12					
STANDARD COMPLIANCE						
Safety	UL 1741, UL 1741SA, UL 1741SB, UL 1699B, CSA 22.2#107.1, C22.2#330, C22.3#9, ANSI/CAN/UL 9540					
Grid Connection Standards	IEEE1547-2018 and IEEE-1547.1 Rule 21, Rule 14H					
Emissions	FCC Part 15 Class B					
Power Control System (PCS)	UL 1741 PCS ⁽¹⁴⁾					
INSTALLATION SPECIFICATIONS						
AC Terminals	L1, L2, N terminal blocks, PE busbar for inverter connection L1, L2 terminal blocks, PE busbar for EV Charger AC connection					
DC Terminals	3 x terminal block pairs for PV input, 2 x terminal block pair for battery input					
AC Output and EV AC Output Conduit Size / AWG Range	1" maximum / 14 – 4 AWG					
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14 – 6 AWG					
Dimensions with Connection Unit (H x W x D)	21.06 x 14.6 x 8.2 / 535 x 370 x 208					in / mm
Weight with Connection Unit	44.9 / 20.3					lb / kg
Noise	< 50					dBA
Cooling	Natural Convection					
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹⁵⁾					°F / °C
Protection Rating	NEMA 4X					

(8) Discharge power is limited up to the inverter's rated AC power for on-grid applications, and up to 12.5 kW for standalone applications, as well as up to the installed batteries' rating.
(9) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT1250-400NA-20. Revenue grade metering is only for production metering.
(10) For more information about the SolarEdge Home EV Charger, refer to the [SolarEdge Home EV Charger](#) datasheet.
(11) Purchased separately. Information concerning the data plan terms & conditions is available in [SolarEdge Communication Plan Terms and Conditions](#).
(12) External Wi-Fi antenna for wider range provided with the inverter's package. Refer to the [Antenna for Wi-Fi and ZigBee Wireless Communications](#) datasheet.
(13) SolarEdge Home Network Plugin ENET-HBNP-01 purchased separately. For more information, refer to the [SolarEdge Home Network Plugin](#) datasheet.
(14) Only part numbers USExxxxH-USMNB7x support the PCS meter.
(15) Full power up to at least 122°F / 50°C. For power derating information refer to the [Temperature Derating for North America](#) technical note.

Power Optimizer

USA Domestic Content Eligible*

For North America

U650 / U650B



POWER OPTIMIZER

SolarEdge's USA-manufactured offering for PV power optimization at the module level

- Eligible for domestic content: SolarEdge USA-manufactured Power Optimizers*, when paired with certain SolarEdge inverters, are intended to be eligible for the enhanced federal income tax credit for domestic content
 - Specifically designed to work with SolarEdge inverters
 - Supports high open circuit voltage (Voc) modules with U650B
 - U650B provides improved design flexibility of multifaceted, complex roofs, with extended output voltage that reduces yield factor losses
 - Superior efficiency (99.5%)
 - Mitigates diverse types of module mismatch loss, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
 - Faster installations with simplified wire management and easy assembly using a single bolt
 - Compatible with a wide range of modules, including high-powered and bifacial PV modules
 - Advanced safety:
 - Patented Sense Connect technology, designed to automatically detect and prevent potential electric arcs at the connector level before an arc is created
 - Patented SafeDC™ – module-level voltage shutdown, for installer and firefighter safety
 - Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)

* Manufactured by SolarEdge with the intent to be eligible for inclusion under the elective safe harbor in calculating the Domestic Cost Percentage under the “Rooftop (MLPE)” category (under IRS Notice 2024-41). The PCBA, Electrical Parts, and Enclosure are domestically manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% domestic content bonus, to determine how the applicable rules apply to your particular project. The forward-looking statements in this datasheet are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative

Power Optimizer

USA Domestic Content Eligible, for North America

U650 / U650B

	U650	U650B	Units
INPUT			
Rated Input DC Power ⁽¹⁾	650		W
Absolute Maximum Input Voltage (Voc)	60	100	Vdc
MPPT Operating Range	8 – 60	12.5 – 100	Vdc
Maximum Input Current (Maximum Isc of Connected PV Module)	15		Adc
Maximum Input Short Circuit Current ⁽²⁾	18.75		Adc
Maximum Efficiency	99.5		%
Weighted Efficiency	98.6		%
Overvoltage Category	II		
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)			
Maximum Output Current	15		Adc
Maximum Output Voltage	60	80	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR INVERTER OFF)			
Safety Output Voltage per Power Optimizer	1 ± 0.1		Vdc
STANDARD COMPLIANCE			
Photovoltaic Rapid Shutdown System	CSA C22.2#330, NEC 2014 – 2023		
EMC	FCC Part 15 Class B, IEC 61000-6-2, IEC 61000-6-3		
Safety	CSA C22.2#107.1, IEC 62109-1 (Class II safety), UL 1741		
Material	UL 94 V-0, UV Resistant		
RoHS	Yes		
Fire Safety	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	1000		Vdc
Dimensions (W x L x H)	129 x 155 x 30 / 5.07 x 6.10 x 1.18	129 x 165 x 45 / 5.07 x 6.49 x 1.77	mm / in
Weight	720 / 1.6	790 / 1.74	gr / lb
Input Connector	MC4		
Input Wire Length	0.1 / 0.32		m / ft
Output Connector	MC4		
Output Wire Length	(+) 2.3, (-) 0.10 / (+) 7.54, (-) 0.32		m / ft
Operating Temperature Range ⁽³⁾	-40 to +85		°C
Protection Rating	IP68 / NEMA6P		
Relative Humidity	0 – 100		%

(1) The Rated Power of the module at STC will not exceed the power optimizer's Rated Input DC Power. Modules with up to +5% power tolerance are allowed.
(2) The Maximum Input Short Circuit Current is adjusted for worst case conditions of ambient temperature, irradiance, bifacial gain, and so on, in accordance with NEC and CSA.
(3) Power derating is applied for ambient temperatures above +85°C / +185°F for U650 and for ambient temperatures above +75°C / 167°F for U650B. Refer to the [Power Optimizers Temperature Derating](#) technical note for details.

PV System Design Using a SolarEdge Inverter ⁽⁴⁾		SolarEdge Home Wave / Hub Single Phase	Three Phase for 208V Grid	Three Phase for 277/480V Grid	Units
Minimum String Length (Power Optimizers)	U650	8	10	18	
	U650B	6	8	14	
Maximum String Length (Power Optimizers)		25		50 ⁽⁵⁾	
Maximum Usable Power Delivered per String		5700	6000	12,750	W
Maximum Allowed Connected Power per String ⁽⁶⁾⁽⁷⁾	Inverters with Rated AC Power ≤ 5700W	Per the inverter's maximum input DC power ⁽⁸⁾	One string: 7200 Two strings or more: 7800	15,000	W
	Inverters with Rated AC Power of 6000W	5700			
	Inverters with Rated AC Power ≥ 7600W	6800, only when connected to at least two strings			
Parallel Strings of Different Lengths or Orientations		Yes			

(4) It is not allowed to mix U650 or U650B Power Optimizers with P-series Power Optimizers in new installations in the same string.
(5) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.
(6) For the 208V grid, the maximum is permitted only when the difference in connected power between strings is 1,000W or less.
(7) For the 240V or 277/480V grids, the maximum is permitted only when the difference in connected power between strings 2,000W or less.
(8) Refer to the [Single String Design Guidelines](#) application note for more details.

INSULATION-PIERCING TAP CONNECTORS CONECTORES DE DERIVACIÓN QUE PERFORAN EL AISLAMIENTO

Installation Instructions:



Warning

Improperly installed electrical wiring can be dangerous and cause electrical fires. The connector chosen must be sized to the wires being used. Consult local building code before doing any electrical work. For assistance, refer to an instructional book or consult a qualified electrician.



Warning

Contact with electricity can cause serious injury or death. Use on insulated cable only. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2). Consult factory for other insulation types]. If the installation is to be made on an energized run, the tap conductor must be under no load and must not be grounded. Use electrically insulated gloves. De-energize the run cable if there are any questions of these conditions being met.

- Determine the direction for the tap conductor to exit and discard one end cap. **See figure 1.**
- Position the main (or feeder) side of the connector around the run cable and tighten the bolt finger tight. **See figure 2.** If required, loosen the bolt slightly to allow the connector to open completely. **DISASSEMBLY NOT RECOMMENDED.** The plastic "Turbo" spacer must be under no load and must not be grounded. Use electrically insulated gloves. De-energize the run cable if there are any questions of these conditions being met.
- Cut the end of the tap cable squarely. **DO NOT STRIP CABLE INSULATION.**
- Insert the tap cable into the tap side of the connector until it is seated in the remaining end cap. **See figure 3.**
- Continue tightening the torque regulating bolt with a standard box or socket wrench until the torque regulating piece breaks away. If the connector has two (2) assembly bolts, alternately tighten until the hexagonal torque devices break away. **See figures 4a & 4b.** Note that the plastic "turbo" spacer on the side will also break. To make the installation even easier and to relieve torque from the cables, a second wrench can be used on the hexagonal piece on the bottom of the connector.

DO NOT use gripping type pliers, pipe, open ended or adjustable wrenches as these may damage the hexagonal torque regulating device. A torque wrench is not required.

MAKE SURE ONLY THE TOP HEXAGONAL TORQUE DEVICE OF THE BOLT HEAD IS USED FOR ASSEMBLY. THE SECOND HEX PIECE [CLOSER TO THE BODY OF THE CONNECTOR] IS USED FOR DISASSEMBLY.

Note: The torque regulating bolt ensures the correct torque is applied to the conductors without using a torque wrench. Important information such as run and tap ranges, voltage ratings and material/temperature ratings is marked on the connector.

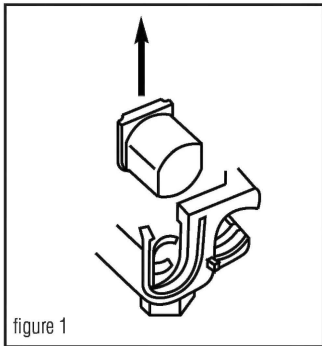


figure 1

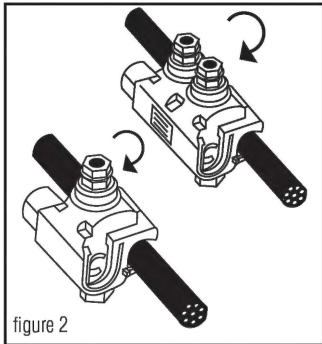


figure 2

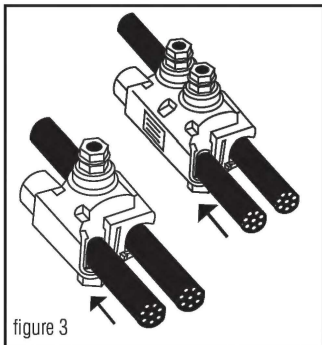


figure 3

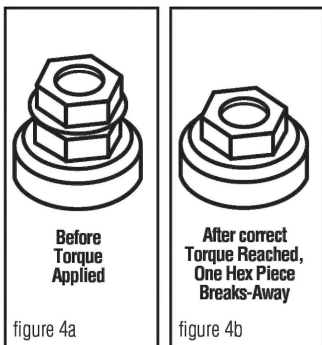


figure 4a

figure 4b

Instalación Instrucciones:



Advertencia

Los cables eléctricos mal instalados pueden ser peligrosos y provocar incendios. El conector escogido debe ser de un tamaño adecuado para los cables que se utilicen. Consulte los códigos de construcción locales antes de efectuar trabajos eléctricos. Si necesita ayuda, consulte un libro de instrucciones o consulte con un electricista capacitado.



Advertencia

Use sólo en cable aislado. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2). Consulte con la fábrica para obtener información sobre otros tipos de aislamiento]. Si se va a hacer la instalación sobre un cable con corriente el conductor derivado debe estar libre de carga y no debe estar aterado. Use guantes con aislamiento eléctrico. Quite le la corriente al cable del cual se hace la derivación si no se pueden cumplir estas condiciones. El contacto con electricidad puede producir lesiones graves o mortales.

- Determine la dirección en la que el conductor derivado saldrá y deseche la tapa terminal sobrante. **Vea la ilustración 1.**
 - Coloque el lado principal (o de alimentación) del conector alrededor del cual se hace la derivación y apriete firmemente el dedo del perno. **Vea la ilustración 2.** Si hace falta, afloje el perno ligeramente para permitir que el conector se abra completamente. **NO ES RECOMENDABLE DESARMAR EL CONECTOR.** El espaciador "Turbo" de plástico mantiene al conector abierto, lo cual facilita la instalación y asegura que las conexiones se hagan correctamente.
 - Corte el extremo del cable de derivación perpendicularmente a su eje. **NO PELE EL AISLAMIENTO DEL CABLE.**
 - Inserte el cable de derivación en el lado de derivación del conector hasta que tope contra la tapa terminal que queda. **Vea la ilustración 3.**
 - Continué apretando este perno que regula la torsión con una llave estándar o de cubo hasta que la pieza que regula la torsión se parta y se separe. Si el conector tiene dos (2) pernos de ensamblaje, apriéte los alternativamente hasta que el dispositivo de regulación de torció se parta. **Vea la ilustración 4a y 4b.** Observe que el espaciador "turbo" de plástico en el costado también se fracturará. Para hacer esta instalación aún más fácil y para aliviar la torsión de los cables, se puede usar una segunda llave sobre la pieza hexagonal al fondo del conector.
- NO USE alicates de presión, llaves de turbo, llaves comunes o ajustables** ya que éstas pueden dañar el dispositivo hexagonal que regula la torsión. No se requiere una llave de torsión.

ASEGÚRESE QUE SE USE, PARA EL ENSAMBLADO, SÓLO EL DISPOSITIVO SUPERIOR DE REGULACIÓN DE TORSIÓN DE LA CABEZA DEL PERNO. LA SEGUNDA PIEZA HEXAGONAL (LA MÁS CERCANA AL CUERPO DEL CONECTOR) SE USA SÓLO PARA DESARMAR EL CONECTOR.

Nota: El perno regulador de torsión garantiza la aplicación de la torsión correcta a los conductores sin usar una llave de torsión. La información importante de longitud de cable pelado y de toma, las clasificaciones de materiales y temperatura está marcada en el conector.

B-TAP[®] INSULATION PIERCING TAP CONNECTORS TORQUE AND CURRENT RATINGS

(Solid and/or Stranded)

CATALOG#	MAIN	TAP	NOMINAL TORQUE	TAP CURRENT RATING (IN AMPS)*
BTC2/0-14	2/0-4	10-14*	80 IN. LBS.	40
BTC1/0-10	1/0-8	2-10**	80 IN. LBS.	130
BTC4/0-10	4/0-3	2-10***	125 IN. LBS.	130
BTC4/0-6	4/0-2	1/0-6	160 IN. LBS.	170
BTC4/0-2	4/0-2	4/0-2	160 IN. LBS.	260
BTC250-6	250-4	4/0-6	160 IN. LBS.	260
BTC250-4	250-1	3/0-4	160 IN. LBS.	225
BTC250-2	250-1/0	4/0-2	160 IN. LBS.	260
BTC350-1/0	350-1/0	350-1/0	330 IN. LBS.	350
BTC500-4	500-2/0	4/0-4	330 IN. LBS.	260
BTC500-1/0	500-4/0	350-1/0	330 IN. LBS.	350
BTC500-14	750-3/0	10-14 +	80 IN. LBS.	40
BTC750-250	750-250	500-250	330 IN. LBS.	430

+10-14 Cu SOLID/STRANDED; 10-12 Al SOLID/STRANDED

++2-10 Cu SOLID/STRANDED; 2-10 Al STRANDED

+++2-10 Cu SOLID/STRANDED; 2-8 Al STRANDED

++++10-14 Cu SOLID/STRANDED; 10-12 Al STRANDED

Full line is 600V dual-rated, 194°F(90°C)

* Based on NEC Table 310-16 1996 (Not more than 3 insulated conductors in a raceway at ambient temperature of 30° C) for the largest tap wire size.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



ADVERTENCIA: Cáncer y Daño Reproductivo - www.P65Warnings.ca.gov.

One year limited warranty. See idealind.com for more information.

Garantía limitada de un año. Visite www.idealind.com para obtener detalles de la garantía.



DESIGN & INTEGRATION

- Seamless, integrated wire management system elevates the install via the new open channel rail.
- State-of-the-art internal splice is interference free and offers true structural integrity that can even be installed in a cantilever!

VERSATILITY & AESTHETICS

- Unparalleled versatility supporting a vast array of roof attachments. Whether it's flashing or no flashing, the NXT UMOUNT™ system has got you covered!
- Refined finishing touches are visually sleek and functionally superior.

EFFICIENCY & EASE OF INSTALLATION

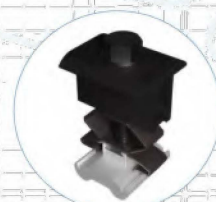
- Universal module clamps and combo lug / MLPE mounts result in fewer SKUs and maximum component value.
- Open-slot STRONGHOLD attachments deliver quick, reliable, waterproof installations via Flashloc or pre-applied butyl sealants.
- With our click-in rail & clamps, you'll spend significantly less time on the roof, making installations quicker and hassle-free.

WHY NXT UMOUNT?

Introducing NXT UMOUNT™, a revolutionary product by Unirac that stands as the ultimate testament to over two decades of engineering experience. Its thoughtful design, backed by rigorous engineering, world-class support, and a reliable supply chain, encapsulates the best of DESIGN, SIMPLICITY, and VALUE. This innovative solar racking solution brings unparalleled versatility to solar installations, effectively representing the NXT level of solar mounting systems.



NXT UMOUNT™
HIDDEN END CLAMP



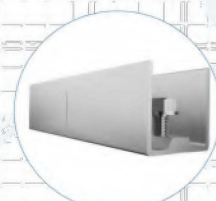
NXT UMOUNT™
COMBO CLAMP
Available in Dark
and Mill



STRONGHOLD™
RAIL CLAMP
Available in Dark
and Mill



NXT UMOUNT™ RAIL
Available in
Dark and Mill



NXT UMOUNT™ RAIL SPLICE



NXT UMOUNT™
MLPE & LUG CLAMP



STRONGHOLD™
ATTACHMENT KIT
Available in Dark
and Mill



STRONGHOLD™ BUTYL
ATTACHMENT KIT
Available in Dark
and Mill



NXT UMOUNT™
METAL ROOF RAIL CLAMP

FLASHKIT PRO



FLASHKIT PRO is the complete attachment solution for composition shingle roofs. Featuring Unirac's patented **SHED & SEAL** technology, a weather proof system which provides the ultimate protection against roof leaks. Kitted in 10 packs for maximum convenience, flashings and hardware are available in Mill or Dark finishes. With **FLASHKIT pro**, you have everything you need for a quick, professional installation.



TRUSTED WATER SEAL FLASHINGS
FEATURING **SHED & SEAL** TECHNOLOGY



YOUR COMPLETE SOLUTION
Flashings, lugs, continuous slot L-Feet and hardware



CONVENIENT 10 PACKS
Packaged for speed and ease of handling

THE COMPLETE ROOF ATTACHMENT SOLUTION

FOR QUESTIONS OR CUSTOMER SERVICE VISIT UNIRAC.COM OR CALL (505) 248-2702

FOR QUESTIONS OR CUSTOMER SERVICE CONTACT:
505-242-6411 | SALES@UNIRAC.COM | WWW.UNIRAC.COM
PUB2024JUL17-V1

CONFORMS TO
UL2703



9001:2015
14001:2015
CERTIFIED







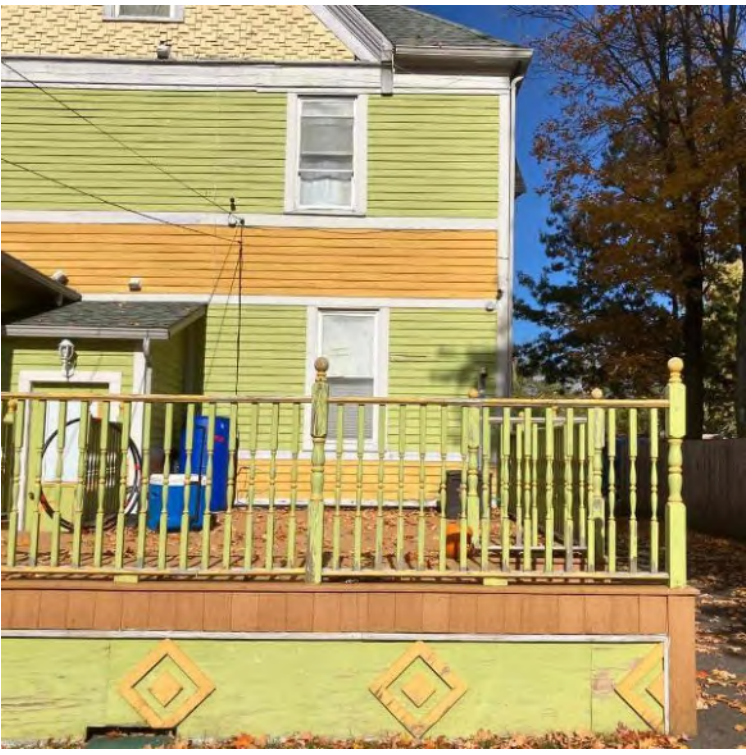
Adam Brunault
Loc: 42.1176, -72.5722



Adam Brunault
Loc: 42.1176, -72.5722



Adam Brunault
Loc: 42.1176, -72.5722



Adam Brunault
Loc: 42.1176, -72.5722



Adam Brunault
Loc: 42.1179, -72.5721



Adam Brunault
Loc: 42.1176, -72.5722



Adam Brunault
Loc: 42.1176, -72.5722



Adam Brunault
Loc: 42.1176, -72.5722



114 Harvard Street GIS Map

11/17/2025 3:27:29 PM

Scale: 1"=75'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

063800037
BONGIOVANNI CORINNE
113 HARVARD ST
SPRINGFIELD, MA 01109

063800021
HUDSON DORCUS N
114 HARVARD ST
SPRINGFIELD, MA 01109

036420024
LOVE LOUIS A & TIFFANY J
PO BOX 90544
SPRINGFIELD, MA 01139

036420022
MERRILL-BAKER BARRY D &
129 DARTMOUTH TER
SPRINGFIELD, MA 01109

063800022
MUTHUA CHARLES
114 HARVARD ST
SPRINGFIELD, MA 01109

063800019
SMALL MARGARET A
108 HARVARD ST
SPRINGFIELD, MA 01109

063800035
ZAGARINS JURIS & ROBIN
121 HARVARD ST
SPRINGFIELD, MA 01109



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 165 WESTMINSTER ST APT 1 SPRINGFIELD, MA 01109

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST



APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**



PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.



RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.



PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*



LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <i>McKnight</i>	DECISION:
DATE RECEIVED: <i>November 13, 2025</i>	DECISION DATE:
HEARING DATE: <i>December 4, 2025</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>November 20, 2025</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>November 20, 2025</i>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
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APPLICATION TYPE

PROPERTY ADDRESS: 165 WESTMINSTER ST APT 1 SPRINGFIELD, MA 01109

APPLICATION TYPE (Select Application Type)



CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.



CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.



CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).



ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.



PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.



PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.



MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).



SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00).



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 165 WESTMINSTER ST APT 1 SPRINGFIELD, MA 01109		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: FRANK ROBINSON		
OWNER ADDRESS: ☒ Check box if same as property address		
OWNER PHONE NUMBER: 14135316799	REPRESENTATIVE/CONTRACTOR NAME: BENJEMIN CARROLL / TEAM SUNSHINE CONSTRUCTION LLC	
OWNER EMAIL ADDRESS: f.robinson@me.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: 617 202-3226	
PROPERTY CODE: 12201-0043	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: permits@teamsunshine.solar	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): SOLAR PV (17 PANELS), ROOF MOUNTED SYSTEM, 7.310 KWDC, NO BATTERY,		PROPOSED MODIFICATIONS (Please check all that apply) ☐ Windows (see Page 3) ☐ Doors (see Page 4) ☐ Siding (see Page 5) ☐ Roofing (see Page 6) ☒ Solar (see Page 6) ☐ Signs (see Page 7) ☐ Heat Pumps (see page 7) ☐ Paint (see Page 8) ☐ Renovations (e.g. Porches) (see Page 8) ☐ New Construction (all of the above) ☐ Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

☐ Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

FRANK ROBINSON

PROPERTY OWNER'S SIGNATURE

11/13/2025

DATE

ROOFING

Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.



Check box indicating that you are submitting photographs of the existing roofing.

EXISTING**PROPOSED****ROOF STYLE** (e.g. gable, hip, mansard, etc):

Pitched

Pitched

MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):

Asphalt

Asphalt

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:**PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING:**

Re-roof needed to install solar panels

ADDITIONAL INFORMATION:**SOLAR****WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?****YES (PLEASE PROVIDE MORE INFO ABOVE)****No**

Check box indicating that you are submitting plans of the proposed solar project.



Check box indicating that you are submitting photographs of the existing roofing.

ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):

Asphalt

NUMBER OF SOLAR POWERED PANELS:

26

SOLAR MANUFACTURER:

SolarEdge Technologies

LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):

12 panels on garage. 14 panels on east and west sides of house. All panels on roof.

LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):

West side of house

LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):

West side of house, disconnect on west side of garage.

LOCATION OF CONDUIT (e.g. side of building, inside the house):

Trench from west side of house to garage.

PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):

EMT type, silver

SCOPE OF WORK:
CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTION OF EXISTING ONSITE CONDITIONS TO DESIGN, SPECIFY, AND INSTALL THE ROOF-MOUNTED PHOTOVOLTAIC SYSTEM DETAILED IN THIS DOCUMENT.

SYSTEM SIZE: 7.310 KWDC / 7.600 KWAC

SYSTEM DESCRIPTION:
MODULE MAKE - (17) JINKO SOLAR JKM430N-54HL4-B [430W]
DIMENSIONS (L/W/H) - 67.79"/44.65"/1.38"
INVERTER MAKE - (1) SOLAREEDGE TECHNOLOGIES ENERGYHUB USE7600H-USMNBET8
INVERTER MAX. CONTINUOUS OUTPUT POWER - 7600VA

SHEET INDEX:
D-00: COVER SHEET
D-01: SITE PLAN
D-02: ROOF PLAN
D-03: STRINGING
D-04: MOUNTING PLAN
A-00: ATTACHMENT DETAILS
A-01: ATTACHMENT DETAILS
E-00: ELECTRICAL LINE DIAGRAM
E-01: WIRE CALCULATION
P-01: NOTES
P-02: SIGNAGE
P-03: REFERENCE PAGE
P-04: MLPE MAP
S-01+: EQUIPMENT SPECIFICATION

GOVERNING CODES:
ALL WORK SHALL CONFORM TO THE FOLLOWING CODES:
2021 INTERNATIONAL BUILDING CODE W/ 780 CMR
2021 INTERNATIONAL RESIDENTIAL CODE W/ 780 CMR
2021 INTERNATIONAL EXISTING BUILDING CODE W/ 780 CMR
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2018 INTERNATIONAL FIRE CODE
2021 NFPA 1 WITH MASSACHUSSETTS AMENDMENTS
2023 NATIONAL ELECTRICAL CODE W/ MASS AMENDMENTS
AS ADOPTED BY SPRINGFIELD

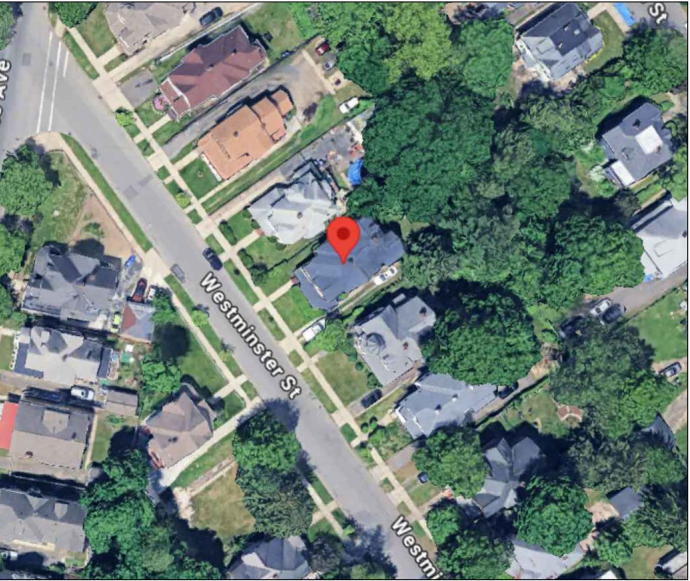
DESIGN BRIEF	
RISK CATEGORY:	AS PER P.E.
BUILDING STORY:	2
ZONING:	RESIDENTIAL
SNOW LOAD:	35 PSF
EXPOSURE CATEGORY:	AS PER P.E.
WIND SPEED:	120 MPH

NEW PHOTOVOLTAIC ROOF MOUNTED SYSTEM

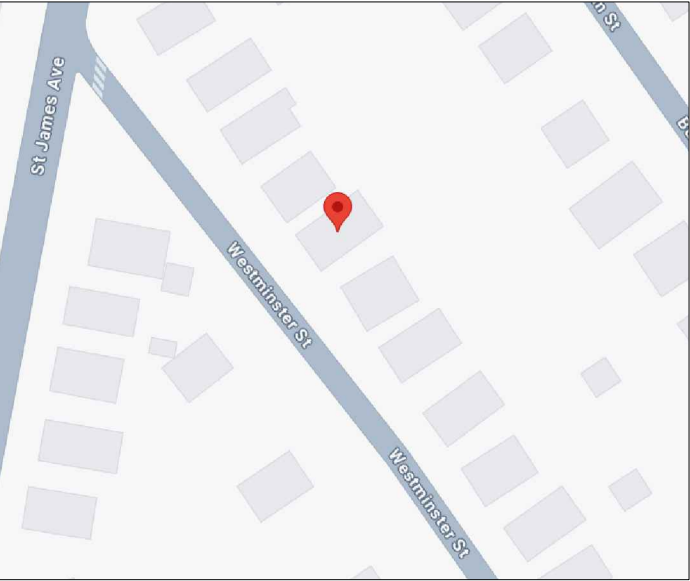
7.310 KWDC/7.600 KWAC

- GENERAL 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 INSTALLATION OF ANY EQUIPMENT AT SITE.
 - CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, OBTAINS ALL PERMITS, LICENSES AND PAY ALL REQUIRED FEES AND COMPLETE INSTALLATION.
 - CONTRACTOR HAS THE FULL RESPONSIBILITY TO CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ANY WORK STARTED 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 COMPENSATION.
 - 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 BUILDING 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.
 - IT IS 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.
 - ALL EXPOSED PLUMBING, HVAC, ELECTRICAL DUCTWORK, PIPING AND CONDUITS ARE TO BE PAINTED BY GENERAL CONTRACTOR.
 - THE CONTRACTOR SHALL PERFORM THE WORK IN STRICT CONFORMANCE WITH THE LOCAL LAWS, REGULATIONS AND THE NATIONAL ELECTRIC CODE.
 - 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.

- PROJECT NOTES:**
- THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE RELEVANT YEAR OF THE NATIONAL ELECTRIC CODE (NEC), ALL MANUFACTURER'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
 - THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND THE PV SYSTEM MUST BE INSPECTED PRIOR TO OPERATION
 - ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC AND OTHER GOVERNING CODES
 - ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.



1 AERIAL VIEW
D-00 CALE: NTS}



1 VICINITY MAP
D-00 CALE: NTS}



TEAM SUNSHINE CONSTRUCTION LLC
24 SPICE ST BOSTON, MA02129
PHONE - (617) 580-8649
LIC. NO. - 115062

SIGNATURE AND SEAL

STRUCTURAL ONLY

COMMONWEALTH OF MASSACHUSETTS

VINCENT MWUMVANEZA CIVIL NO. 54772

REGISTERED PROFESSIONAL ENGINEER

REVISIONS		
DESCRIPTION	DATE	REV
CAD	22-AUG-25	00

PROJECT NAME & ADDRESS

FRANK ROBINSON 1 RESIDENCE

165 WESTMINSTER ST APT 1
SPRINGFIELD, MA 01109,USA

APN#:
122010043

AHJ NAME
SPRINGFIELD

SHEET NAME
COVER PAGE

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
D-00

- EQUIPMENT LOCATIONS:
- ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS IN ACCORDANCE WITH NEC 110.26.
 - WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31 (A),(C) AND NEC TABLES 310.15 (B)(2)(A) AND 310.15 (B)(3)(C).
 - JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES IN ACCORDANCE WITH NEC 690.34.
 - ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE TAHE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT.
 - ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL IN ACCORDANCE WITH NEC APPLICABLE CODES.
 - ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

- SITE NOTES:
- A LADDER WILL BE IN PLACE FOR INSPECTION IN ACCORDANCEWITH OSHA REGULATIONS.
 - THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THISSYSTEM IS A UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES.
 - THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
 - PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED IN ACCORDANCE WITH SECTION NEC 110.26.
 - ROOF COVERINGS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTRUCTIONS SUCH THAT THE ROOF COVERING SERVES TO PROTECT THE BUILDING OR STRUCTURE.

LEGEND

- PROPERTY LINE
- FENCE



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24 SPICE ST BOSTON, MA02129
PHONE - (617) 580-8649
LIC. NO. - 115062

SIGNATURE AND SEAL



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CAD	22-AUG-25	00

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FRANK ROBINSON 1
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AHJ NAME
SPRINGFIELD

SHEET NAME

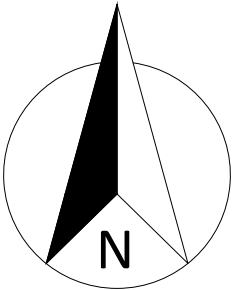
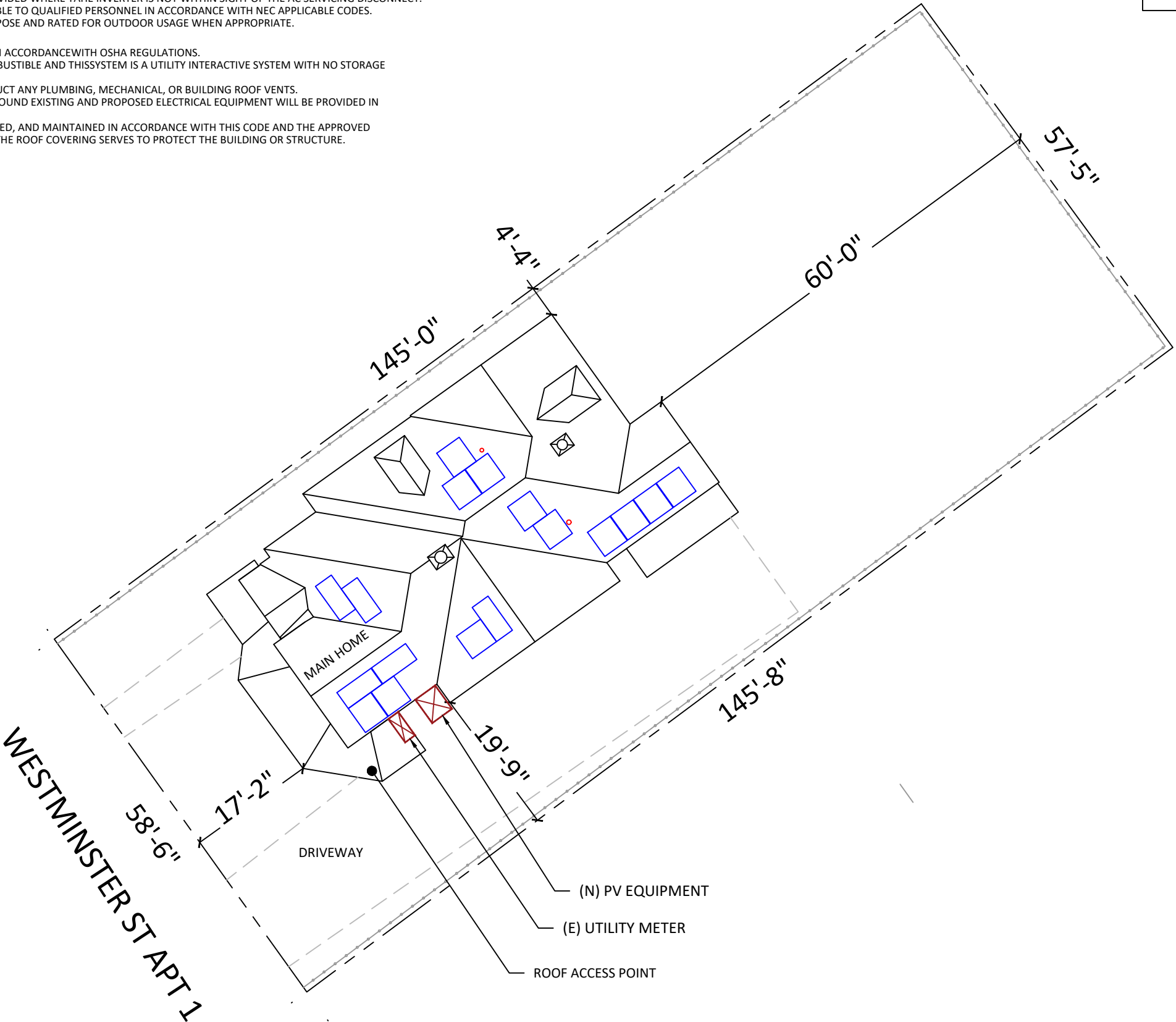
SITE PLAN

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

D-01



1

D-01

SITE PLAN

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

UM

(E) UTILITY METER

MSP

(E) MAIN SERVICE PANEL

AC

(N) UTILITY ACCESSIBLE AC DISCONNECT:
VISIBLE, LOCKABLE, LABELED

INV

(N) SOLAREEDGE TECHNOLOGIES ENERGYHUB
USE7600H-USMNB78

- (17) JINKO SOLAR JKM430N-54HL4-B
[430W] MODULES
OPTIMIZER (1 PER MODULE)

- VENT, ATTIC FAN (ROOF OBSTRUCTION)

- (N) JUNCTION BOX

- ROOF RUN CONDUIT

NOTE: TO AVOID ADDITIONAL TEMPERATURE DERATE CORRECTIONS, CONDUIT MUST BE A MINIMUM OF 7/8" ABOVE THE ROOF SURFACE (EXTERIOR) OR 18" BELOW ROOF THROUGH ATTIC (INTERIOR).

ROOF DESCRIPTION				
ROOF	ROOF TILT	AZIMUTH	FRAMING	ROOF MATERIAL
#1	45°	234°	RAFTER 2"X 6" @ 18"/22"/24" O.C.	COMP. SHINGLE
#2	45°	144°	RAFTER 2"X 6" @ 18"/22"/24" O.C.	COMP. SHINGLE
#3	45°	234°	RAFTER 2"X 6" @ 18"/22"/24" O.C.	COMP. SHINGLE
#4	45°	144°	RAFTER 2"X 6" @ 18"/22"/24" O.C.	COMP. SHINGLE
#5	45°	324°	RAFTER 2"X 6" @ 18"/22"/24" O.C.	COMP. SHINGLE



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SIGNATURE AND SEAL

STRUCTURAL ONLY



REVISIONS

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CAD	22-AUG-25	00

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RESIDENCE

165 WESTMINSTER ST APT 1
SPRINGFIELD, MA 01109,USA

APN#:
122010043

AHJ NAME
SPRINGFIELD

SHEET NAME
ROOF PLAN

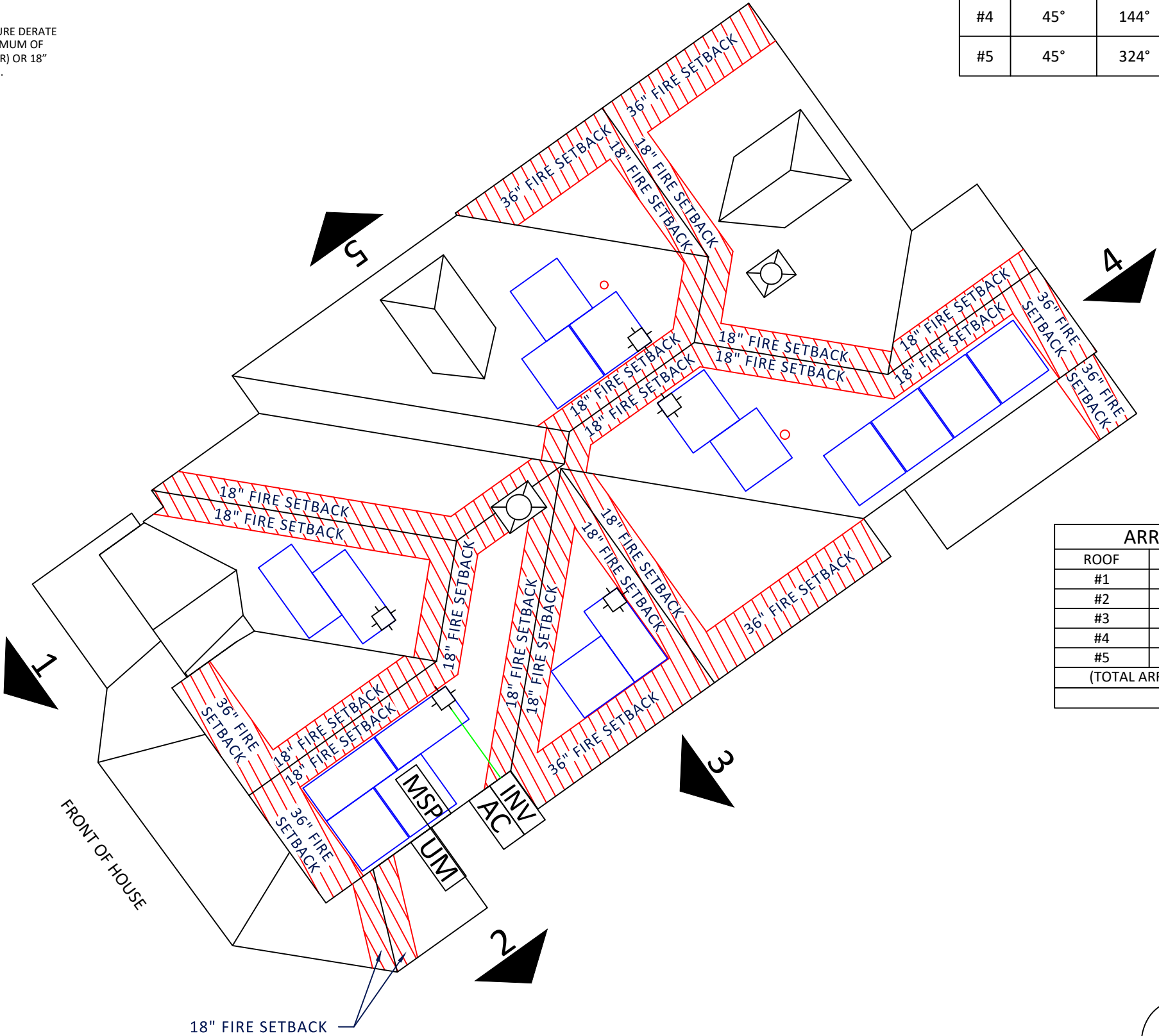
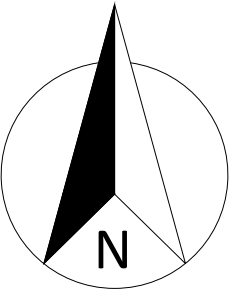
SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

D-02

ARRAY AREA & ROOF AREA CALC'S		
ROOF	# OF MODULES	ARRAY AREA (Sqft)
#1	2	42.04
#2	4	84.08
#3	2	42.04
#4	6	126.12
#5	3	63.06
(TOTAL ARRAY AREA sqft / TOTAL ROOF AREA sqft) X 100%		
(357.33/ 2512) X 100% = 14.23%		



1

ROOF PLAN

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

PV STRINGS / CIRCUIT

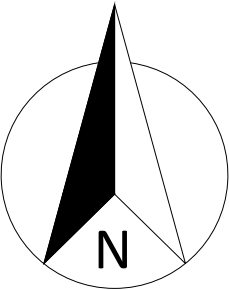
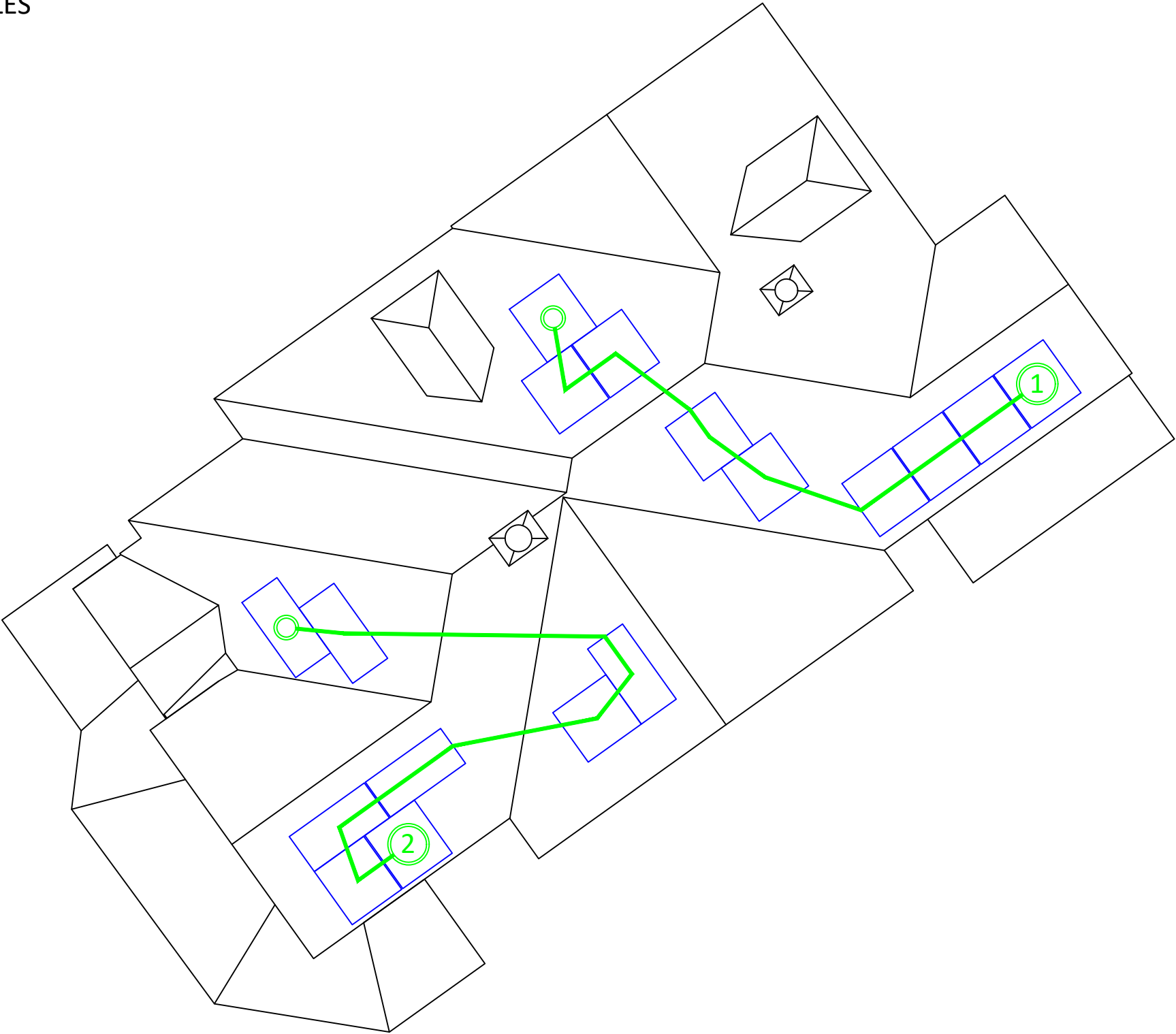
- 1

09 MODULES
- 2

08 MODULES

LEGEND

- (N) (17) JINKO SOLAR JKM430N-54HL4-B [430W] MODULES



1

STRINGING

D-03

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



TEAM SUNSHINE CONSTRUCTION LLC
24 SPICE ST BOSTON, MA02129
PHONE - (617) 580-8649
LIC. NO. - 115062

SIGNATURE AND SEAL



Signed 10/24/2025

REVISIONS

DESCRIPTION	DATE	REV
CAD	22-AUG-25	00

PROJECT NAME & ADDRESS

FRANK ROBINSON 1
RESIDENCE

165 WESTMINSTER ST APT 1
SPRINGFIELD, MA 01109,USA

APN#:
122010043

AHJ NAME
SPRINGFIELD

SHEET NAME
STRINGING

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

D-03

LEGEND

- VENT, ATTIC FAN (ROOF OBSTRUCTION)

- (N) 78 nos ROOF ATTACHMENT
STRONGHOLD W/ BUTYL (SHBUTYLM2-US)

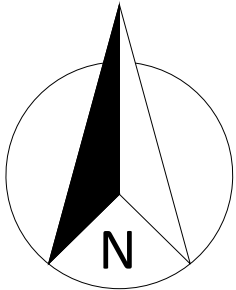
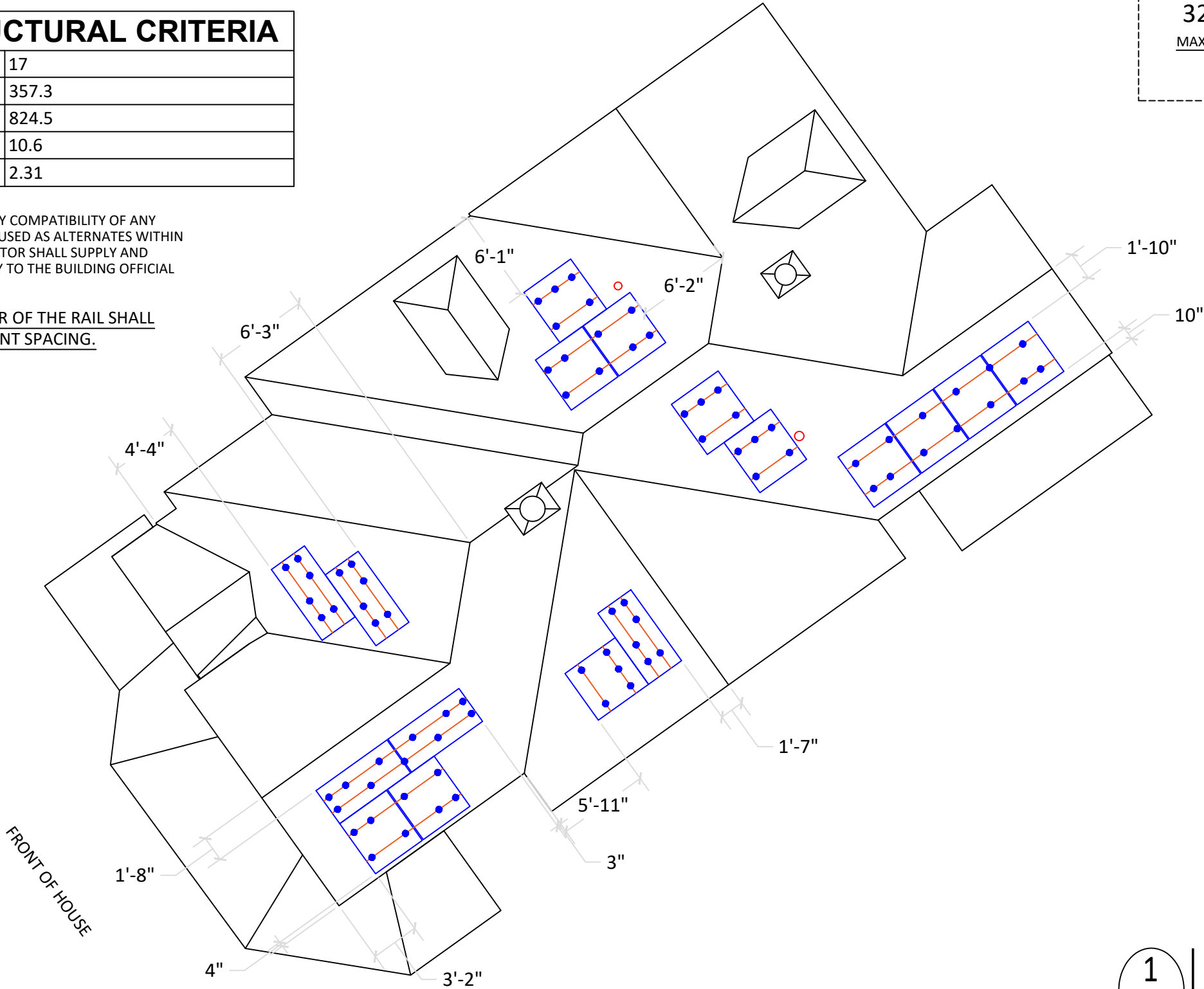
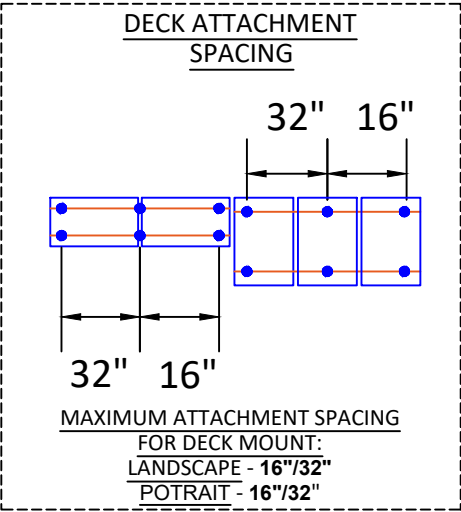
- ROOF RAIL [UNIRAC NXT UMount RAIL(185RLM1-US)]

- (N) (17) JINKO SOLAR JKM430N-54HL4-B [430W] WEIGHT - 48.5 (LBS)

PV ARRAY STRUCTURAL CRITERIA	
PV MODULE COUNT	17
TOTAL ARRAY AREA (Sq ft)	357.3
ARRAY WEIGHT(lbs)	824.5
POINT LOAD (lbs)	10.6
DISTRIBUTED LOAD (lbs/sqft)	2.31

NOTE: CONTRACTOR/INSTALLER TO VERIFY COMPATIBILITY OF ANY BRANDS OR PRODUCTS SUBSTITUTED OR USED AS ALTERNATES WITHIN ANY BRAND-SPECIFIC SYSTEMS. CONTRACTOR SHALL SUPPLY AND PRESENT CERTIFICATES OF COMPATIBILITY TO THE BUILDING OFFICIAL UPON INSPECTION AS NEEDED.

NOTE: THE MAXIMUM CANTILEVER OF THE RAIL SHALL BE 1/3 OF THE ATTACHMENT SPACING.



1

D-04

ATTACHMENT PLAN

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



TEAM SUNSHINE CONSTRUCTION LLC
24 SPICE ST BOSTON, MA02129
PHONE - (617) 580-8649
LIC. NO. - 115062

SIGNATURE AND SEAL

STRUCTURAL
ONLY



Signed 10/24/2025

REVISIONS

DESCRIPTION	DATE	REV
CAD	22-AUG-25	00

PROJECT NAME & ADDRESS

FRANK ROBINSON 1
RESIDENCE

165 WESTMINSTER ST APT 1
SPRINGFIELD, MA 01109,USA

APN#:
122010043

AHJ NAME
SPRINGFIELD

SHEET NAME
MOUNTING PLAN

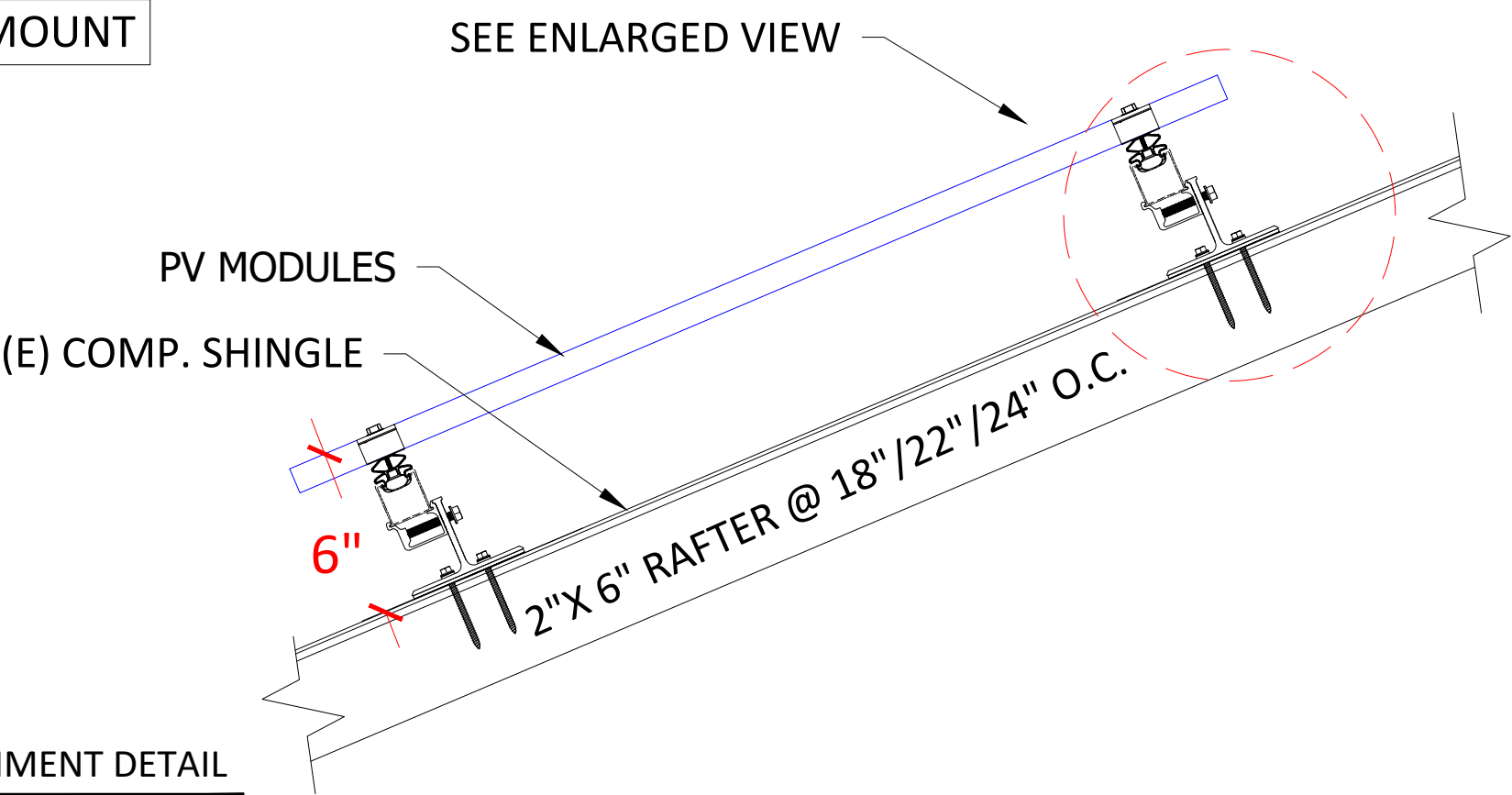
SHEET SIZE

ANSI B
11" X 17"

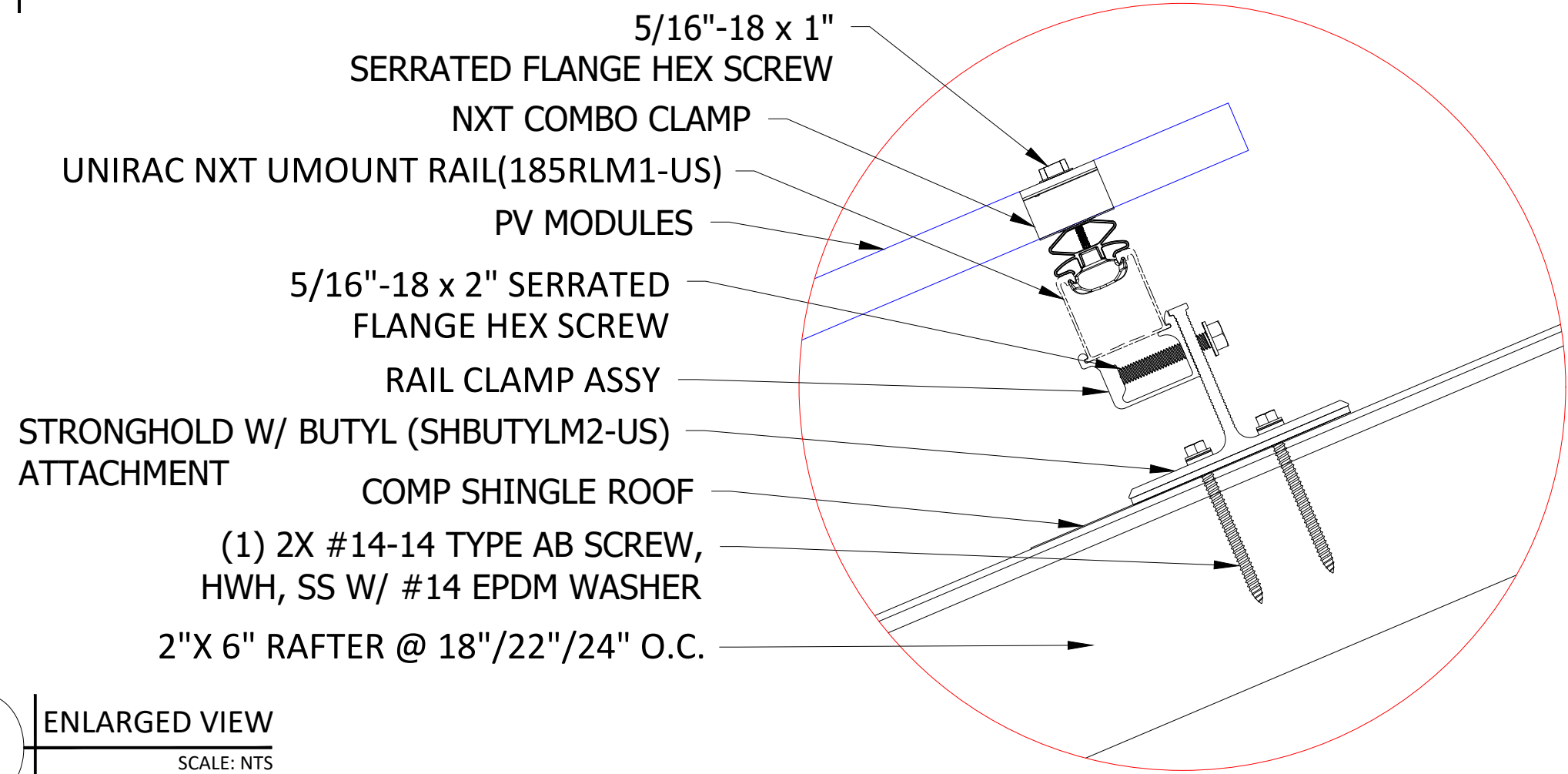
SHEET NUMBER

D-04

RAFTER/ TRUSS MOUNT



1 ATTACHMENT DETAIL
A-00 SCALE: NTS



2 ENLARGED VIEW
A-00 SCALE: NTS



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SPRINGFIELD

SHEET NAME
ATTACHMENTDETAILS

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

A-00

DECK MOUNT

BRACKET IS TO BE DECK MOUNTED AND WON'T BE ATTACHED TO THE RAFTER

SEE ENLARGED VIEW

PV MODULES
(E) COMP. SHINGLE ROOF

6"

2"X 6" RAFTER @ 18"/22"/24" O.C.

1

ATTACHMENT DETAIL

A-01

SCALE: NTS

5/16"-18 x 1" SERRATED
FLANGE HEX SCREW

NXT COMBO CLAMP

UNIRAC NXT UMOUNT RAIL(185RLM1-US)

PV MODULES

5/16"-18 x 2" SERRATED
FLANGE HEX SCREW

RAIL CLAMP ASSY

STRONGHOLD W/ BUTYL (SHBUTYLM2-US)
ATTACHMENT

COMP SHINGLE ROOF

(3) 2X #14-14 TYPE AB SCREW,
HWH, SS W/ #14 EPDM WASHER

2"X 6" RAFTER @ 18"/22"/24" O.C.

2

ENLARGED VIEW

A-01

SCALE: NTS



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SHEET NAME
ATTACHMENTDETAILS

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

A-01

SERVICE INFO

AHJ NAME: SPRINGFIELD
UTILITY PROVIDER: EVERSOURCE
MAIN SERVICE VOLTAGE: 240V
MAIN SERVICE PANEL: 100A
MAIN BREAKER RATING: 100A
SERVICE FEED SOURCE: OVERHEAD
MSP MANUFACTURER: SQUARE D- HOMELINE

SYSTEM SIZE: 7.310 KWDC
7.600 KWAC

ROMEX CAN BE USED IN LIEU OF CONDUIT FOR INTERIOR BUILDING AND ATTIC RUNS ONLY. DO NOT USE ROMEX IN CONDUIT OR OUTDOOR ENVIRONMENTS.

UNLESS OTHERWISE SPECIFIED, THE CONDUCTORS SHALL BE COPPER. THIS IS THE DEFAULT ASSUMPTION FOR THE CONDUIT CONDUCTOR SCHEDULE

TAG #	DESCRIPTION (OUTPUT)	WIRE GAUGE	NO. OF CONDUCTORS	CONDUIT TYPE	CONDUIT SIZE	CONDUCTOR TYPE
1	PV ARRAY	10 AWG	2L1, 2L2	OPEN AIR	N/A	PV WIRE
1	EGC	6 AWG	1	OPEN AIR	N/A	BARE COPPER
2	PV ARRAY	10 AWG	2L1, 2L2	EMT	3/4"	THWN-2
2	EGC	6 AWG	1	EMT	3/4"	THWN-2
3	INVERTER	8 AWG	1L1, 1L2, 1N	EMT	3/4"	THWN-2
3	EGC	8 AWG	1	EMT	3/4"	THWN-2
4	FUSED AC DISCONNECT	6 AWG	1L1, 1L2, 1N	EMT	3/4"	THWN-2

TEAM Sunshine

TEAM SUNSHINE CONSTRUCTION LLC
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AHJ NAME
SPRINGFIELD

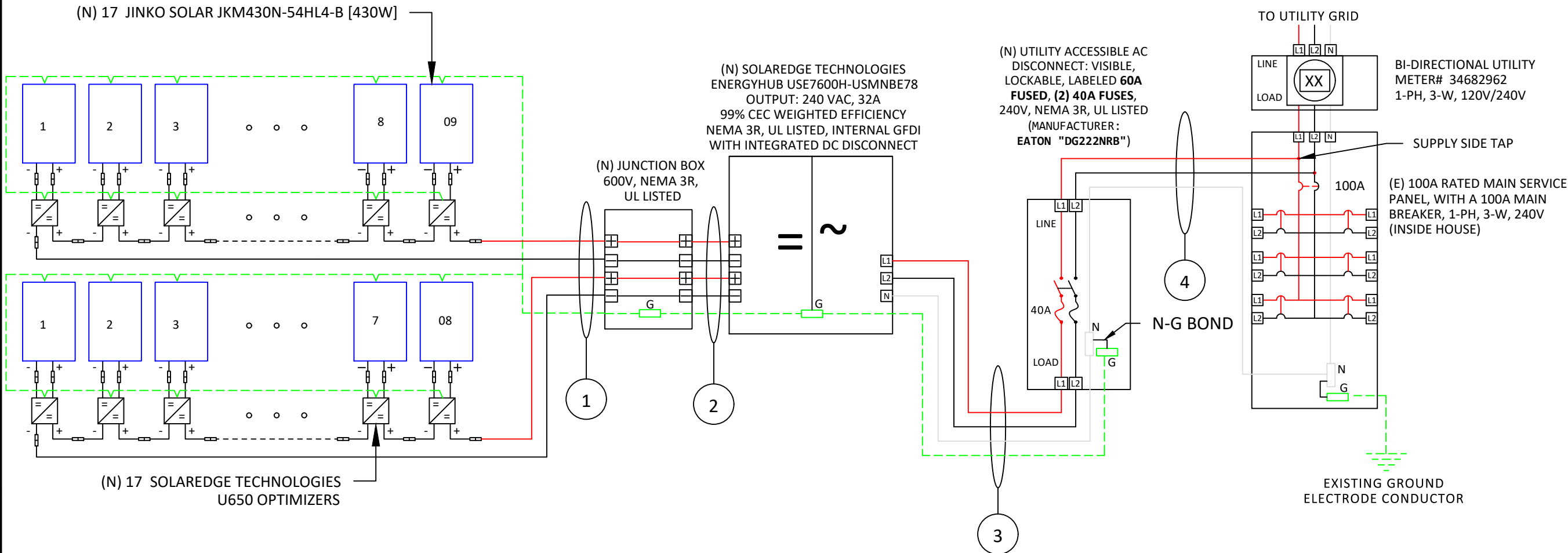
SHEET NAME
**ELECTRICAL
LINE**

SHEET SIZE

**ANSI B
11" X 17"**

SHEET NUMBER

E-00



OCPD CALCULATIONS

PV OVERCURRENT PROTECTION NEC 690.9(B)
INVERTER CONTINUOUS DUTY OUTPUT CURRENT RATING = 32 X 1.25 = 40.00 <= 40A OCPD

CONDUCTOR SIZING

(TAG 2 ON ROOF):
10 GAUGE WIRE RATED FOR 40A, 40A X 0.96 X 0.8 (4 CONDUCTORS) = 30.72A > 15 A
(TAG 3 OFF ROOF):
8 GAUGE WIRE RATED FOR 50A , 50A X 0.94 = 47A > 40.00A (SYSTEM OCPD)
(TAG 4 OFF ROOF):
6 GAUGE WIRE RATED FOR 65A , 65A X 0.94 = 61.1A > 40.00A (SYSTEM OCPD)

PV MODULE RATING @ STC	
MANUFACTURER	JINKO SOLAR JKM430N-54HL4-B [430W]
MAX. POWER-POINT CURRENT (IMP)	13.20 AMPS
MAX. POWER-POINT VOLTAGE (VMP)	32.58 VOLTS
OPEN-CIRCUIT VOLTAGE (VOC)	39.16 VOLTS
SHORT-CIRCUIT CURRENT (ISC)	13.65 AMPS
MAX. SERIES FUSE (OCPD)	25 AMPS
NOM. MAX. POWER AT STC (PMAX)	430 WATTS
MAX. SYSTEM VOLTAGE	1000 (IEC)/1000 (UL)
VOC TEMPERATURE COEFFICIENT	-0.25%/°C

AMBIENT TEMPERATURE SPECS	
RECORD LOW TEMP	-18°
AMBIENT TEMP (HIGH TEMP 2%)	32°
CONDUIT HEIGHT	7/8"
ROOF TOP TEMP	90°C

PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT
0.80	4-6
0.70	7-9
0.50	10-20

INVERTER SPECIFICATIONS	
MANUFACTURER / MODEL	SOLAREEDGE TECHNOLOGIES ENERGYHUB USE7600H-USMNB E78
MAX DC SHORT CIRCUIT CURRENT	45 A
CONTINUOUS OUTPUT CURRENT	32 A (240V)

OPTIMIZER SPECIFICATION	
MANUFACTURER / MODEL	SOLAREEDGE TECHNOLOGIES U650
DC INPUT POWER	650
MAXIMUM INPUT VOLTAGE	60 VDC
MPPT RANGE	8 TO 60 VDC
MAXIMUM INPUT CURRENT	15 ADC
MAXIMUM OUTPUT CURRENT	15 ADC STRING
LIMITATIONS	8 TO 25 OPTIMIZERS
5700 WATTS STC PER STRING MAXIMUM	



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AHJ NAME
SPRINGFIELD

SHEET NAME

WIRE SIZING

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

E-01

WIRING & CONDUIT NOTES:

- ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE.
- CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- CONDUCTORS SIZED IN ACCORDANCE WITH THE NEC
- AC CONDUCTORS TO BE COLORED OR MARKED PER NEC
- LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING PER NEC

DISCONNECTION AND OVERCURRENT PROTECTION NOTES:

- DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED “LINE SIDE” (TYPICALLY THE UPPER TERMINALS).
- DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH
- PV SYSTEM CIRCUITS INSTALLED ON OR IN HABITABLE BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS IN ACCORDANCE WITH 690.12
- ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8, 690.9, AND 240.
- INVERTER ON-GRID BRANCHES SHALL BE CONNECTED TO A SINGLE BREAKER OR GROUPED FUSE DISCONNECT(S) IN ACCORDANCE WITH NEC 110.3(B).
- IF REQUIRED BY THE AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION IN ACCORDANCE WITH NEC 690.11 AND UL1699B

INTERCONNECTION NOTES:

- LOAD SIDE INTERCONNECTION SHALL BE INACCORDANCE WITH NEC 705.12.
- THE SUM OF THE UTILITY OCPD AND INVERTERCONTINUOUS OUTPUT MAY NOT EXCEED 120 PERCENT OF BUSBAR RATING PER NEC 705.12.
- THE SUM OF 125 PERCENT OF THE POWER SOURCE(S) OUTPUT CIRCUIT CURRENT AND THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR SHALL NOT EXCEED 120 PERCENT OF THE AMPACITY OF THE BUSBAR, PV DEDICATED BACKFEED BREAKERS MUST BE LOCATED OPPOSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD IN ACCORDANCE WITH NEC 705.12.
- AT MULTIPLE ELECTRIC POWER SOURCES OUTPUT COMBINER PANEL, TOTAL RATING OF ALL OVERCURRENT PROTECTION DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR. HOWEVER, THE MAIN OVERCURRENT PROTECTION DEVICE MAY BE EXCLUDED IN ACCORDANCE WITH NEC 705.12.
- FEEDER TAP INTERCONNECTION (LOAD SIDE) IN ACCORDANCE WITH NEC 705.12.
- SUPPLY SIDE TAP INTERCONNECTION IN ACCORDANCE WITH TO NEC 705.12 WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42.
- BACKFEEDING BREAKER FOR ELECTRIC POWER SOURCES OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING PER NEC 705.12.

GROUNDING NOTES:

- GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FORTHEIR PURPOSE, AND GROUNDING DEVICES EXPOSED TO THEELEMENTS SHALL BE RATED FOR SUCH USE.
- PV EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NEC 690.43 AND NEC TABLE 250.122.
- METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORDANCE WITH NEC 250.134 AND 250.136(A).
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NEC 690.45 AND INVERTER MANUFACTURER'S INSTALLATION PRACTICES
- EACH MODULE WILL BE GROUNDED AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ.
- THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE.
- GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER PER NEC 250.119
- THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, A GROUNDING ELECTRODE SYSTEM PROVIDED IN ACCORDANCE WITH NEC 250, NEC 690.47 AND THE AHJ.
- GROUND-FAULT DETECTION SHALL COMPLY WITH NEC 690.41(B)(1) AND (2) TO REDUCE FIRE HAZARDS



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SPRINGFIELD, MA 01109,USA

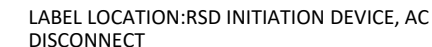
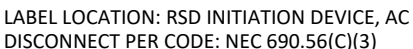
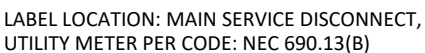
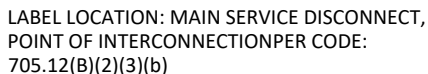
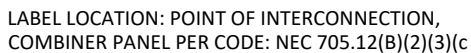
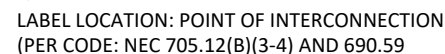
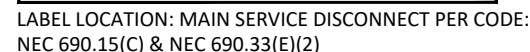
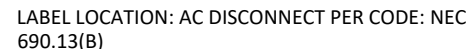
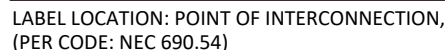
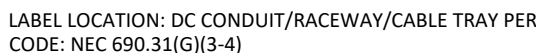
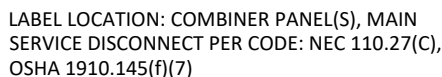
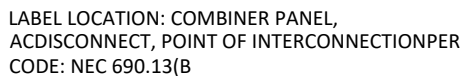
APN#:
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AHJ NAME
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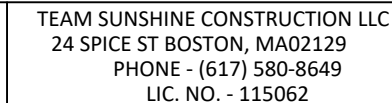
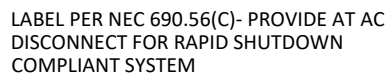
SHEET NAME
NOTES

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
P-01



- ADHESIVE FASTENED SIGNS:**
- THE LABEL SHALL BE SUITABLE FOR THE ENVIRONMENT WHERE IT IS INSTALLED.
 - WHERE REQUIRED ELSEWHERE IN THIS CODE, ALL FIELD APPLIED LABELS, WARNINGS, AND MARKINGS SHOULD COMPLY WITH ANSI Z535.4 [NEC 110.21(B) FIELD MARKING].
 - ADHESIVE FASTENED SIGNS MAY BE ACCEPTABLE IF PROPERLY ADHERED. VINYL SIGNS SHALL BE WEATHER RESISTANT [IFC 605.11.3]



SIGNATURE AND SEAL

[illegible]

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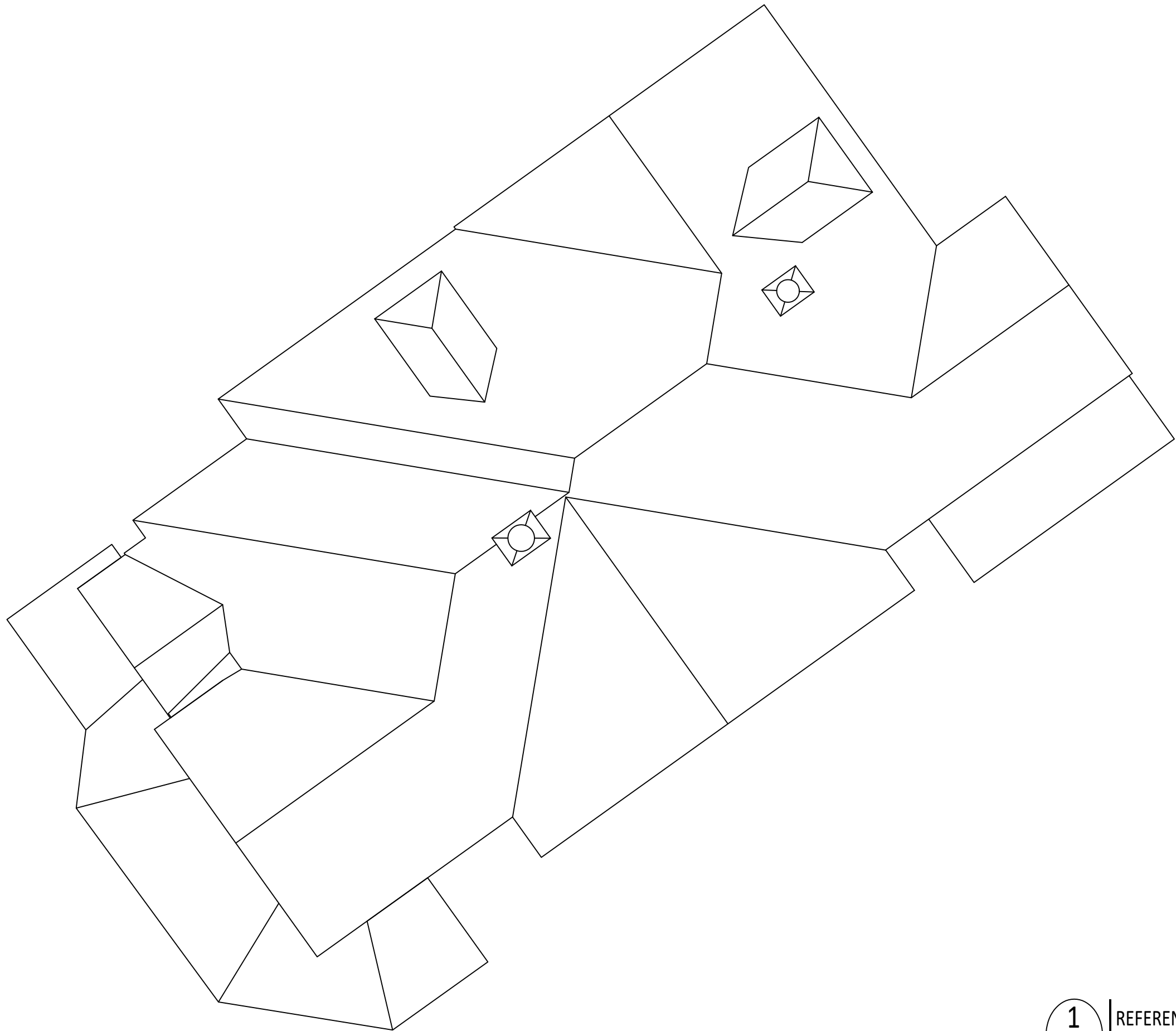
SHEET NAME
SIGNAGE

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

P-02



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AHJ NAME
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SHEET NAME
REFERENCE PAGE

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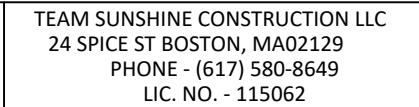
SHEET NUMBER

P-03

Inverter		ZigBee Sticker
Model		
Serial #		
#of Modules per Inverter :		

2. Write the corresponding number on the appropriate panel within the provided array.

3. Attach the square Inverter sticker (and ZigBee sticker if req'd) in space

[illegible]

APN#:
122010043

ANSI B
11" X 17"

P-04



THE MOST DEPENDABLE SOLAR PRODUCT

EAGLE 54HM G6

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.



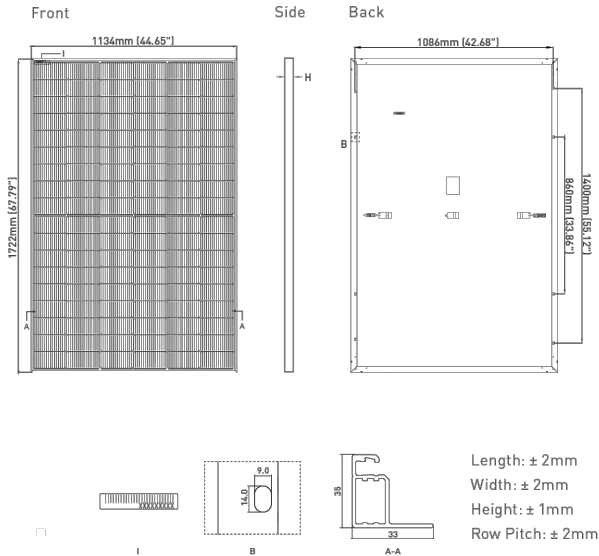
- ISO9001:2015 Quality Standards
 - ISO14001:2015 Environmental Standards
 - IEC61215, IEC61730 certified products
- ISO45001: 2018 Occupational Health & Safety Standards
 - UL61730 certified products



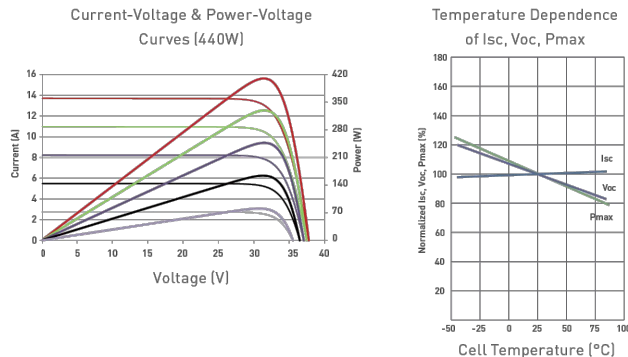
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ENGINEERING DRAWINGS



ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



MECHANICAL CHARACTERISTICS

No. of Half Cells	108 (2 x 54)
Dimensions	1722 × 1134 × 35mm (67.79 × 44.65 × 1.38 inch)
Weight	22.0kg (48.5lbs)
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	Staubli MC4
Fire Type	Type 1
Pressure Rating	5400Pa (Snow) & 2400Pa (Wind)

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

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 0.4%, minimum power at year 30 is 87.4% or greater.

ELECTRICAL CHARACTERISTICS

Module Type	JKM420N-54HL4-B		JKM425N-54HL4-B		JKM430N-54HL4-B		JKM435N-54HL4-B		JKM440N-54HL4-B	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	420Wp	316Wp	425Wp	320Wp	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp
Maximum Power Voltage (Vmp)	32.16V	29.95V	32.37V	30.19V	32.58V	30.30V	32.78V	30.50V	32.99V	30.73V
Maximum Power Current (Imp)	13.06A	10.55A	13.13A	10.60A	13.20A	10.66A	13.27A	10.72A	13.34A	10.77A
Open-circuit Voltage (Voc)	38.74V	36.80V	38.95V	37.00V	39.16V	37.20V	39.36V	37.39V	39.57V	37.59V
Short-circuit Current (Isc)	13.51A	10.91A	13.58A	10.96A	13.65A	11.02A	13.72A	11.08A	13.80A	11.14A
Module Efficiency STC (%)	21.51%		21.76%		22.02%		22.28%		22.53%	

*STC: ☀ Irradiance 1000W/m²
NOCT: ☀ Irradiance 800W/m²

🌡 Cell Temperature 25°C
🌡 Ambient Temperature 20°C

☁ AM = 1.5
☁ 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. JKM420-440N-54HL4-B-F1-US

BUILDING YOUR TRUST IN SOLAR. WWW.JINKOSOLAR.US



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AHJ NAME
SPRINGFIELD

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

S-01

SolarEdge Home Hub Inverter
USA Domestic Content Eligible*
Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US /
SE11400H-US



SolarEdge's USA-manufactured residential single phase inverter
offering for storage and backup applications

- Eligible for domestic content: SolarEdge USA-manufactured inverters*, when paired with certain SolarEdge power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
 - The ultimate home energy manager in charge of PV production, battery storage, backup operation during a power outage**, EV Charging, and smart energy devices
 - Record-breaking 99% weighted efficiency with up to 200% DC oversizing
 - Able to start high LRA HVAC systems during backup operation
 - Integrates seamlessly with the complete SolarEdge Home Smart Energy Ecosystem, through SolarEdge Home Network
 - Module-level monitoring and visibility of battery status, PV production, and self-consumption data
- Fast and easy installation – small and lightweight, with reduced commissioning time
 - A scalable solution that supports future homeowner needs through easy connection to a growing ecosystem of products
 - Advanced safety features with integrated arc fault protection and rapid shutdown for 690.11 and 690.12
 - Advanced reliability with automotive-grade components
 - Embedded revenue grade production data, ANSI C12.20 Class 0.5
 - NEMA 4X-rated, for indoor and outdoor installations
 - Embedded Power Control System (PCS) – install larger systems while avoiding main panel upgrade

* Manufactured by SolarEdge with the intent to be eligible for inclusion under the selective safe harbor in calculating the Domestic Cost Percentage under the "Roof-top (MLP)" category (under IRS Notice 2024-43). For inverters with part number SExxxxxH-USMNB75, the PCBA, Electrical Parts, and Enclosure are domestically produced and manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. For inverters with part number SExxxxxH-USMNBx5, the PCBA and Enclosure are domestically manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% domestic content bonus, to determine how the applicable rules apply to your particular project. The forward-looking statements in this datasheet are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

** Requires additional hardware and firmware version upgrade.

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HOME BACKUP

SolarEdge Home Hub Inverter
USA Domestic Content Eligible
Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number		SExxxxH-USMNBx5 / USExxxxH-USMNB75					
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US		
OUTPUT – AC ON GRID							
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	7600 @ 240V	10,000 @ 240V	11,400 @ 240V 10,000 @ 208V	W	
AC Output Voltage (Nominal)	208 / 240					Vac	
AC Output Voltage (Range)	183 – 264					Vac	
AC Frequency Range (min - nom - max)	59.3 – 60 – 60.5 ⁽²⁾					Hz	
Maximum Continuous Output Current	16 @ 240V 16 @ 208V	24 @240V 24 @ 208V	32 @ 240V	42 @ 240V	47.5 @ 240V 48 @208V	A	
GFDI Threshold	1					A	
Total Harmonic Distortion (THD)	< 3					%	
Power Factor	1, adjustable -0.85 to 0.85						
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes						
Charge Battery from AC (if allowed)	Yes						
Typical Nighttime Power Consumption	< 2.5					W	
OUTPUT – AC STANDALONE (BACKUP) ⁽³⁾							
Rated AC Power in Standalone Operation ⁽⁴⁾	11,400					W	
Maximum Continuous Output Current in Standalone Operation	48					A	
Locked Rotor Amperage (LRA) ⁽⁵⁾	Up to 106					A	
AC L-L Output Voltage Range in Standalone Operation	211 – 264					Vac	
AC L-N Output Voltage Range in Standalone Operation	105 – 132					Vac	
AC Frequency Range in Standalone Operation (min - nom - max)	55 – 60 – 65					Hz	
GFDI	1					A	
THD	< 5					%	
INPUT – DC (PV AND BATTERY)							
Transformer-less, Ungrounded	Yes						
Maximum Input Voltage	480					Vdc	
Nominal DC Input Voltage	380					Vdc	
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	600kΩ Sensitivity						
Maximum Input Short Circuit Current	45					Adc	
Maximum Inverter Efficiency	99.2					%	
CEC Weighted Efficiency	98.5	99			99 @ 240V 98.5 @ 208V	%	
2-Pole Disconnection	Yes						
DC CONNECTION – PV							
Maximum Input Power	7600 @ 240V 6600 @ 208V	11,520 @ 240V 10,000 @ 208V	15,200 @ 240V	20,000 @ 240V	22,800 @ 240V 20,000 @ 208V	W	
Maximum Input Current	20 @ 240V 17 @ 208V	30 @ 240V 26 @ 208V	40 @ 240V	53 @ 240V	60 @ 240V 53 @ 208V	Adc	
Number of Ports	3						
Maximum Current per Port	40					Adc	

(1) These specifications apply to inverters with part number SExxxxxH-USMNBx5 and USExxxxxH-USMNB75 and connection unit model number DCD-1PH-US-PW-F-x.
(2) For other regional settings please refer to the SolarEdge Inverters Power Control Options application note.
(3) Not designed for non-grid connected applications and requires AC for commissioning. Standalone (backup) functionality is only supported for the 240V grid.
(4) For models SE7600H-US and below, the Rated AC Power in Standalone Operation is configurable between 7,600W with a Maximum Continuous Output Current of 32A or 11,400W with a Maximum Continuous Output Current of 48A, from firmware version 4.20.xx.
(5) For more information about LRA (Locked Rotor Amperage) values, see the SolarEdge Home Hub Inverter LRA application note.

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SolarEdge Home Hub Inverter
USA Domestic Content Eligible
Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	SExxxxH-USMNBx5 / USExxxxH-USMNB75					
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US	
DC CONNECTION – BATTERY						
Supported Battery Types	SolarEdge Home Battery 400V					
Number of Batteries per Inverter	Up to 3					
Maximum Continuous Power (Charge and Discharge) ⁽⁶⁾	11,400					W
Number of Ports	2					
Maximum Current per Port	40					Adc
2-pole Disconnection	Up to the inverter's rated standalone power					
SMART ENERGY CAPABILITIES						
Consumption Metering	Built-in ⁽⁷⁾					
Standalone & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; up to 3 inverters					
EV Charging	Direct connection to the SolarEdge Home EV Charger ⁽⁸⁾					
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁽⁹⁾ , Wi-Fi ⁽¹⁰⁾ (optional), SolarEdge Home Network ⁽¹⁰⁾ (optional)					
Revenue Grade Metering, ANSI C12.20	Built-in ⁽⁷⁾					
Integrated AC, DC, and Communication Connection Unit	Yes					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection					
DC Voltage Rapid Shutdown (PV and Battery)	Yes, NEC 690.12					
STANDARD COMPLIANCE						
Safety	UL 1741, UL 1741SA, UL 1741SB, UL 1699B, CSA 22.2#107.1, C22.2#330, C22.3#9, ANSI/CAN/UL 9540					
Grid Connection Standards	IEEE1547-2018 and IEEE-1547.1 Rule 21, Rule 14H					
Emissions	FCC Part 15 Class B					
Power Control System (PCS)	UL 1741 PCS ⁽¹¹⁾					
INSTALLATION SPECIFICATIONS						
AC Terminals	L1, L2, N terminal blocks, PE busbar for inverter connection L1, L2 terminal blocks, PE busbar for EV Charger AC connection					
DC Terminals	3 x terminal block pairs for PV input, 2 x terminal block pair for battery input					
AC Output and EV AC Output Conduit Size / AWG Range	1" maximum / 14 – 4 AWG					
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14 – 6 AWG					
Dimensions with Connection Unit (H x W x D)	21.06 x 14.6 x 8.2 / 535 x 370 x 208					in / mm
Weight with Connection Unit	44.9 / 20.3					lb / kg
Noise	< 50					dBA
Cooling	Natural Convection					
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹²⁾					°F / °C
Protection Rating	NEMA 4X					

(6) Discharge power is limited up to the inverter's rated AC power for on-grid and standalone applications, as well as up to the installed batteries' rating.
(7) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT1250-400NA-20. Revenue grade metering is only for production metering.
(8) For more information about the SolarEdge Home EV Charger, refer to the SolarEdge Home EV Charger datasheet.
(9) Information concerning the data plan terms & conditions is available in SolarEdge Communication Plan Terms and Conditions.
(10) SolarEdge Home Network Plug-in ENET-HBNP-01 and Wi-Fi Antenna SE-ANT-ZBWIFI-KIT purchased separately. For more information, refer to the SolarEdge Home Network Plug-in datasheet and the Antenna for Wi-Fi and ZigBee Wireless Communications datasheet.
(11) Only part numbers SExxxxxH-USMNBx5 and USExxxxxH-USMNB75 support the PCS meter.
(12) Full power up to at least 122°F / 50°C; for power derating information refer to the Temperature Derating for North America technical note.

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LIC. NO. - 115062

SIGNATURE AND SEAL

REVISIONS

DESCRIPTION	DATE	REV
CAD	22-AUG-25	00

PROJECT NAME & ADDRESS

FRANK ROBINSON 1
RESIDENCE

165 WESTMINSTER ST APT 1
SPRINGFIELD, MA 01109,USA

APN#:
122010043

AHJ NAME
SPRINGFIELD

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

S-02

Power Optimizer

USA Domestic Content Eligible*

For North America

U650 / U650B



SolarEdge's USA-manufactured offering for PV power optimization at the module level

- Eligible for domestic content: SolarEdge USA-manufactured Power Optimizers*, when paired with certain SolarEdge inverters, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Specifically designed to work with SolarEdge inverters
- Supports high open circuit voltage (Voc) modules with U650B
- U650B provides improved design flexibility of multifaceted, complex roofs, with extended output voltage that reduces yield factor losses
- Superior efficiency (99.5%)
- Mitigates diverse types of module mismatch loss, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Faster installations with simplified wire management and easy assembly using a single bolt
- Compatible with a wide range of modules, including high-powered and bifacial PV modules
- Advanced safety:

Patented Sense Connect technology, designed to automatically detect and prevent potential electric arcs at the connector level before an arc is created

Patented SafeDC™ – module-level voltage shutdown, for installer and firefighter safety

Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)

* Manufactured by SolarEdge with the intent to be eligible for inclusion under the elective safe harbor in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notice 2024-41). The PCBA, Electrical Parts, and Enclosure are domestically manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% domestic content bonus, to determine how the applicable rules apply to your particular project. The forward-looking statements in this datasheet are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative

solaredge.com



Power Optimizer

USA Domestic Content Eligible, for North America

U650 / U650B

	U650	U650B	Units
INPUT			
Rated Input DC Power ⁽¹⁾	650		W
Absolute Maximum Input Voltage (Voc)	60	100	Vdc
MPPT Operating Range	8 – 60	12.5 – 100	Vdc
Maximum Input Current (Maximum Isc of Connected PV Module)	15		Adc
Maximum Input Short Circuit Current ⁽²⁾	18.75		Adc
Maximum Efficiency	99.5		%
Weighted Efficiency	98.6		%
Overvoltage Category	II		
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)			
Maximum Output Current	15		Adc
Maximum Output Voltage	60	80	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR INVERTER OFF)			
Safety Output Voltage per Power Optimizer	1 ± 0.1		Vdc
STANDARD COMPLIANCE			
Photovoltaic Rapid Shutdown System	CSA C22.2#330, NEC 2014 – 2023		
EMC	FCC Part 15 Class B, IEC 61000-6-2, IEC 61000-6-3		
Safety	CSA C22.2#107.1, IEC 62109-1 (Class II safety), UL 1741		
Material	UL 94 V-0, UV Resistant		
RoHS	Yes		
Fire Safety	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	1000		Vdc
Dimensions (W x L x H)	129 x 155 x 30 / 5.07 x 6.10 x 1.18	129 x 165 x 45 / 5.07 x 6.49 x 1.77	mm / in
Weight	720 / 1.6	790 / 1.74	gr / lb
Input Connector	MC4		
Input Wire Length	0.1 / 0.32		m / ft
Output Connector	MC4		
Output Wire Length	(+) 2.3, (-) 0.10 / (+) 7.54, (-) 0.32		m / ft
Operating Temperature Range ⁽³⁾	-40 to +85		°C
Protection Rating	IP68 / NEMA6P		
Relative Humidity	0 – 100		%

(1) The Rated Power of the module at STC will not exceed the power optimizer's Rated Input DC Power. Modules with up to +5% power tolerance are allowed.
(2) The Maximum Input Short Circuit Current is adjusted for worst case conditions of ambient temperature, irradiance, bifacial gain, and so on, in accordance with NEC and CSA.
(3) Power derating is applied for ambient temperatures above +85°C / +185°F for U650 and for ambient temperatures above +75°C / 167°F for U650B. Refer to the [Power Optimizers Temperature Derating](#) technical note for details.

PV System Design Using a SolarEdge Inverter ⁽⁴⁾		SolarEdge Home Wave / Hub Single Phase	Three Phase for 208V Grid	Three Phase for 277/480V Grid	Units
Minimum String Length (Power Optimizers)	U650	8	10	18	
	U650B	6	8	14	
Maximum String Length (Power Optimizers)		25		50 ⁽⁵⁾	
Maximum Usable Power Delivered per String		5700	6000	12,750	W
Maximum Allowed Connected Power per String ⁽⁶⁾⁽⁷⁾	Inverters with Rated AC Power ≤ 5700W	Per the inverter's maximum input DC power ⁽⁸⁾	One string: 7200 Two strings or more: 7800	15,000	W
	Inverters with Rated AC Power of 6000W	5700			
	Inverters with Rated AC Power ≥ 7600W	6800, only when connected to at least two strings			
Parallel Strings of Different Lengths or Orientations		Yes			

(4) It is not allowed to mix U650 or U650B Power Optimizers with P-series Power Optimizers in new installations in the same string.
(5) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.
(6) For the 208V grid, the maximum is permitted only when the difference in connected power between strings is 1,000W or less.
(7) For the 240V or 277/480V grids, the maximum is permitted only when the difference in connected power between strings 2,000W or less.
(8) Refer to the [Single String Design Guidelines](#) application note for more details.

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CAD	22-AUG-25	00

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FRANK ROBINSON 1
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165 WESTMINSTER ST APT 1
SPRINGFIELD, MA 01109,USA

APN#:
122010043

AHJ NAME
SPRINGFIELD

SHEET NAME
EQUIPMENT
SPECIFICATION

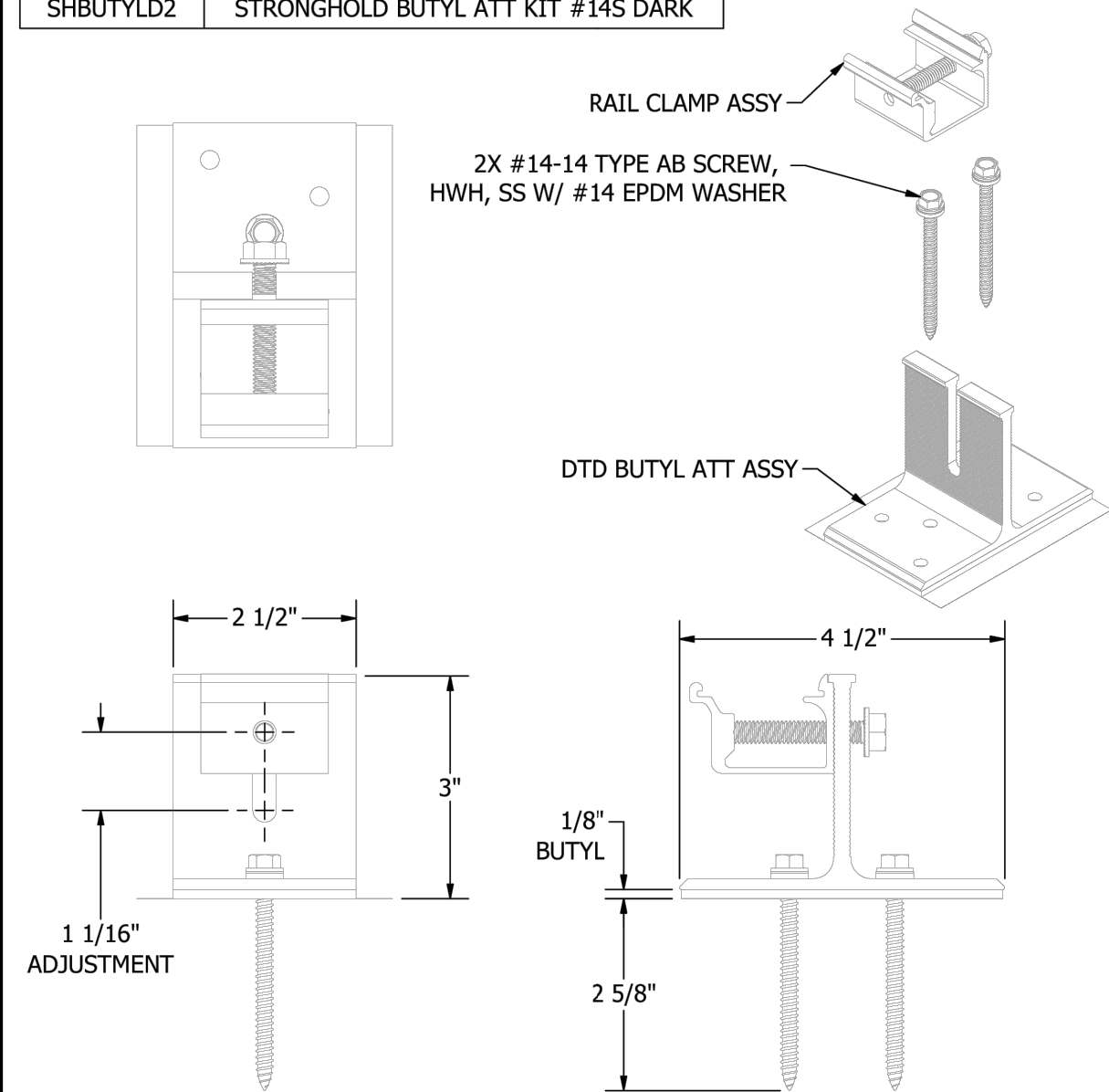
SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

S-02 (A)

PART # TABLE	
P/N	DESCRIPTION
SHBUTYLM2	STRONGHOLD BUTYL ATT KIT #14S MILL
SHBUTYLD2	STRONGHOLD BUTYL ATT KIT #14S DARK





1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

PRODUCT LINE: NXT UMount

DRAWING TYPE: PARTS

DESCRIPTION: SH BUTYL ATTACHMENT

REVISION DATE: 7/14/2023

DRAWING NOT TO SCALE
ALL DIMENSIONS ARE NOMINAL

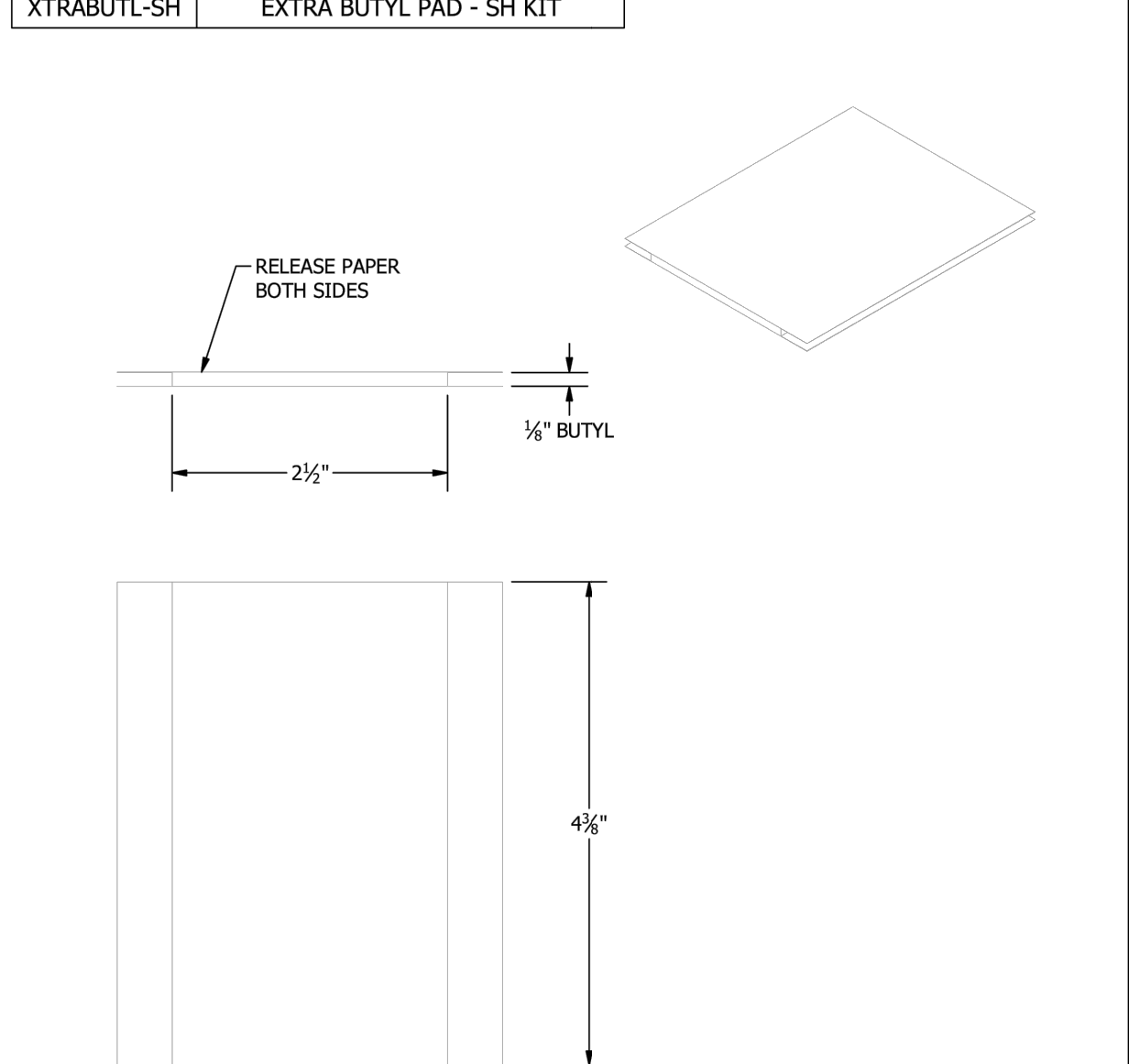
PRODUCT PROTECTED BY
ONE OR MORE US PATENTS

LEGAL NOTICE

NU-A10-1

SHEET

PART # TABLE	
P/N	DESCRIPTION
XTRABUTL-SH	EXTRA BUTYL PAD - SH KIT





1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

PRODUCT LINE: NXT UMount

DRAWING TYPE: PARTS

DESCRIPTION: BUTYL PAD

REVISION DATE: 1/10/2023

DRAWING NOT TO SCALE
ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY
ONE OR MORE US PATENTS

LEGAL NOTICE

NU-P03

SHEET



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SHEET NAME
**EQUIPMENT
SPECIFICATION**

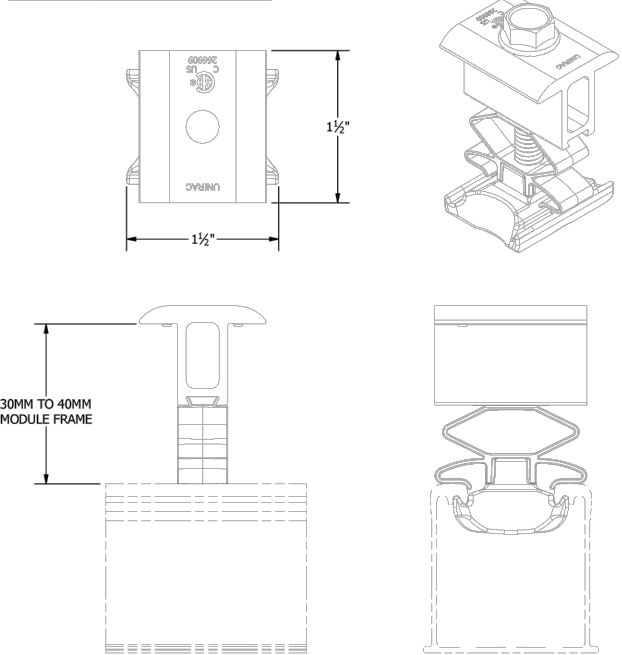
SHEET SIZE

**ANSI B
11" X 17"**

SHEET NUMBER

S-03

PART # TABLE	
P/N	DESCRIPTION
CCLAMP1	NXT COMBO CLAMP - MILL
CCLAMPD1	NXT COMBO CLAMP - DARK



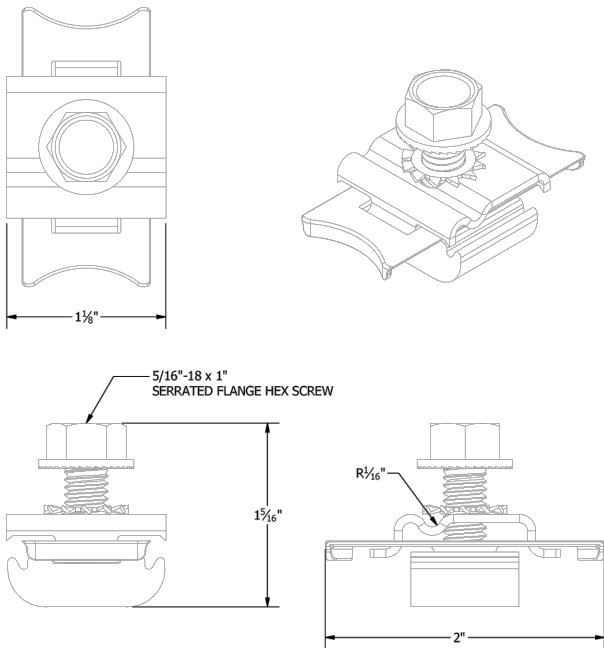
PRODUCT LINE:	NXT UMount
DRAWING TYPE:	PART & ASSEMBLY
DESCRIPTION:	COMBO CLAMP
REVISION DATE:	11/17/2022

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL
PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE

NU-A03

SHEET

PART # TABLE	
P/N	DESCRIPTION
LUGMLPE1	NXT UMount MLPE & LUG CLAMP



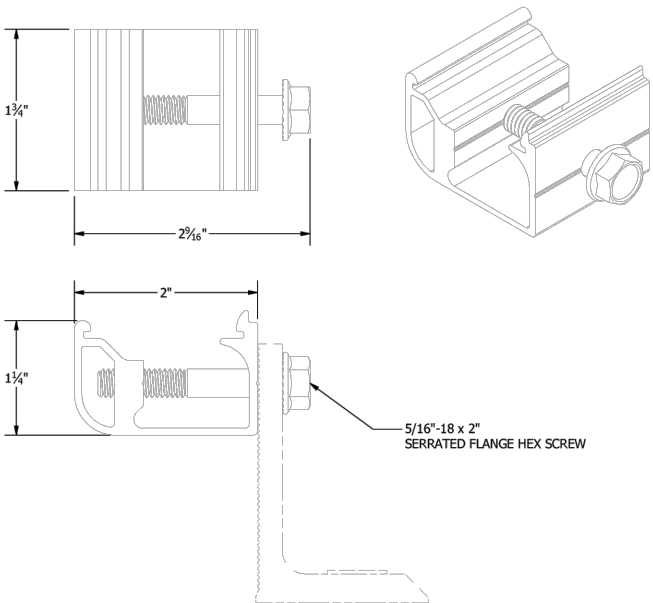
PRODUCT LINE:	NXT UMount
DRAWING TYPE:	PARTS ASSEMBLY
DESCRIPTION:	MLPE & LUG CLAMP
REVISION DATE:	11/17/2022

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL
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NU-A06

SHEET

PART # TABLE	
P/N	DESCRIPTION
SHCLMPM1	STRONGHOLD RAIL CLAMP MILL
SHCLMPD1	STRONGHOLD RAIL CLAMP DRK



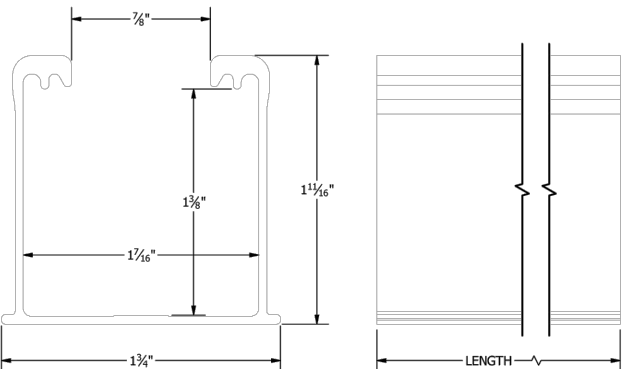
PRODUCT LINE:	NXT UMount
DRAWING TYPE:	PARTS ASSEMBLY
DESCRIPTION:	STRONGHOLD RAIL CLAMP
REVISION DATE:	11/17/2022

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL
PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE

NU-A05

SHEET

PART # TABLE		
P/N	DESCRIPTION	LENGTH
084RLM1	NXT UMount RAIL 84" MILL	84"
084RLD1	NXT UMount RAIL 84" DARK	84"
168RLM1	NXT UMount RAIL 168" MILL	168"
168RLD1	NXT UMount RAIL 168" DARK	168"
208RLM1	NXT UMount RAIL 208" MILL	208"
208RLD1	NXT UMount RAIL 208" DARK	208"
246RLM1	NXT UMount RAIL 246" MILL	246"
246RLD1	NXT UMount RAIL 246" DARK	246"
171RLM1	NXT UMount RAIL 171" MILL	171.50"
171RLD1	NXT UMount RAIL 171" DARK	171.50"



PRODUCT LINE:	NXT UMount
DRAWING TYPE:	PART DETAIL
DESCRIPTION:	RAIL
REVISION DATE:	11/17/2022

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL
PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE

NU-P01

SHEET



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SPRINGFIELD, MA 01109,USA

APN#:
122010043

AHJ NAME
SPRINGFIELD

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

S-05



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PROJECT NAME & ADDRESS

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RESIDENCE

165 WESTMINSTER ST APT 1
SPRINGFIELD, MA 01109,USA

APN#:
122010043

AHJ NAME
SPRINGFIELD

SHEET NAME
EXISTING MSP AND
METER PHOTOS

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

S-06

Product specifications

Eaton DG222NRB

Catalog Number: DG222NRB

Eaton General duty cartridge fuse safety switch, 60 A, NEMA 3R, Painted galvanized steel, Class H fuses, Fusible with neutral, Two-pole, Three-wire, Category: general duty safety switch, 240 V

General specifications

Product Name	Catalog Number
Eaton general duty cartridge fuse safety switch	DG222NRB
	UPC
	782113144221
Product Length/Depth	Product Height
7.35 in	14.37 in
Product Width	Product Weight
8.4 in	10 lb
Warranty	Compliances
Eaton Selling Policy 25-000, one (1) year NEC 230.62 (C) Compliant Barrier from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.	Certifications
	UL Listed
	Catalog Notes
	Maximum hp ratings apply only when dual element fuses are used. 3-Phase hp rating shown is a grounded B phase rating, UL listed.



Physical Attributes

Enclosure
NEMA 3R
Enclosure material
Painted galvanized steel
Fuse configuration
Fusible with neutral
Number Of Poles
Two-pole
Number of wires
3
Type
General duty, cartridge fused

Performance Ratings

Amperage Rating
60A
Fuse class provision
Class H fuses
Voltage rating
240V

Miscellaneous

Product Category
General duty safety switch

Resources

Catalogs
Eaton's Volume 2—Commercial Distribution
Multimedia
Switching Devices Flex Center
Double Up on Safety
Specifications and datasheets
Eaton Specification Sheet - DG222NRB



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Dublin 4, Ireland
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AHJ NAME
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SHEET NAME
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SPECIFICATION

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

S-07



INSULATION-PIERCING TAP CONNECTORS | CONECTORES DE DERIVACIÓN QUE PERFORAN EL AISLAMIENTO

Self-declared by IDEAL Industries, Inc. to be “Suitable for use on the line side of service equipment” based on ANSI C119.5 testing conducted in an ISO 17025 accredited lab.

Installation Instructions:

Warning

Improperly installed electrical wiring can be dangerous and cause electrical fires. The connector chosen must be sized to the wires being used. Consult local building code before doing any electrical work. For assistance, refer to an instructional book or consult a qualified electrician.

Warning

Contact with electricity can cause serious injury or death. Use on insulated cable only. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2). Consult factory for other insulation types]. If the installation is to be made on an energized run, the tap conductor must be under no load and must not be grounded. Use electrically insulated gloves. De-energize the run cable if there are any questions of these conditions being met.

- Determine the direction for the tap conductor to exit and discard one end cap. **See figure 1.**
- Position the main (or feeder) side of the connector around the run cable and tighten the bolt finger tight. **See figure 2.** If required, loosen the bolt slightly to allow the connector to open completely. **DISASSEMBLY NOT RECOMMENDED.** The plastic “Turbo” spacer holds the connector open which eases installation and ensures proper connections.
- Cut the end of the tap cable squarely. **DO NOT STRIP CABLE INSULATION.**
- Insert the tap cable into the tap side of the connector until it is seated in the remaining end cap. **See figure 3.**
- Continue tightening the torque regulating bolt with a standard box or socket wrench until the torque regulating piece breaks away. If the connector has two (2) assembly bolts, alternately tighten until the hexagonal torque devices break away. **See figures 4a & 4b.** Note that the plastic “turbo” spacer on the side will also break. To make the installation even easier and to relieve torque from the cables, a second wrench can be used on the hexagonal piece on the bottom of the connector.

DO NOT use gripping type pliers, pipe, open ended or adjustable wrenches as these may damage the hexagonal torque regulating device. A torque wrench is not required.

MAKE SURE ONLY THE TOP HEXAGONAL TORQUE DEVICE OF THE BOLT HEAD IS USED FOR ASSEMBLY. THE SECOND HEX PIECE [CLOSER TO THE BODY OF THE CONNECTOR] IS USED FOR DISASSEMBLY.

Note: The torque regulating bolt ensures the correct torque is applied to the conductors without using a torque wrench. Important information such as run and tap ranges, voltage ratings and material/temperature ratings is marked on the connector.

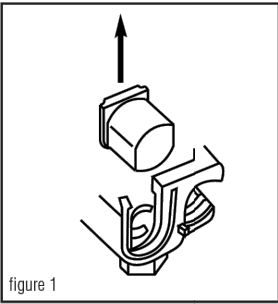


figure 1

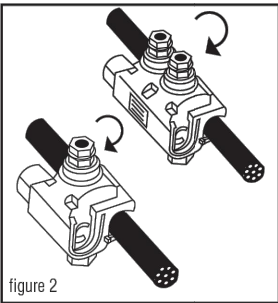


figure 2

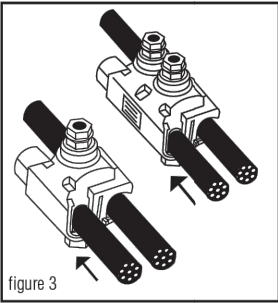


figure 3

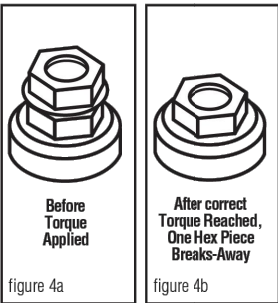


figure 4a

After correct Torque Reached, One Hex Piece Breaks-Away

figure 4b

Autodeclarado por IDEAL Industries, Inc. como “Adecuado para usar en el lado de la línea del equipo de servicio” según las pruebas ANSI C119.5 realizadas en un laboratorio acreditado ISO 17025.

Instalación Instrucciones:

Advertencia

Los cables eléctricos mal instalados pueden ser peligrosos y provocar incendios. El conector escogido debe ser de un tamaño adecuado para los cables que se utilicen. Consulte los códigos de construcción locales antes de efectuar trabajos eléctricos. Si necesita ayuda, consulte un libro de instrucciones o consulte con un electricista capacitado.

Advertencia

Use sólo en cable aislado. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2). Consulte con la fábrica para obtener información sobre otros tipos de aislamiento]. Si se va a hacer la instalación sobre un cable con corriente el conductor derivado debe estar libre de carga y no debe estar aterado. Use guantes con aislamiento eléctrico. Quite le la corriente al cable del cual se hace la derivación si no se pueden cumplir estas condiciones. El contacto con electricidad puede producir lesiones graves o mortales.

- Determine la dirección en la que el conductor derivado saldrá y deseche la tapa terminal sobrante. **Vea la ilustración 1.**
- Coloque el lado principal (o de alimentación) del conector alrededor del cual se hace la derivación y apriete firmemente el dedo del perno. **Vea la ilustración 2.** Si hace falta, afloje el perno ligeramente para permitir que el conector se abra completamente. **NO ES RECOMENDABLE DESARMAR EL CONECTOR.** El espaciador “Turbo” de plástico mantiene al conector abierto, lo cual facilita la instalación y asegura que las conexiones se hagan correctamente.
- Corte el extremo del cable de derivación perpendicularmente a su eje. **NO PELE EL AISLAMIENTO DEL CABLE.**
- Inserte el cable de derivación en el lado de derivación del conector hasta que tope contra la tapa terminal que queda. **Vea la ilustración 3.**
- Continué apretando este perno que regula la torsión con una llave estándar o de cubo hasta que la pieza que regula la torsión se parta y se separe. Si el conector tiene dos (2) pernos de ensamblaje, apriételes alternativamente hasta que el dispositivo de regulación de torción se parta. **Vea la ilustración 4a y 4b.** Observe que el espaciador “turbo” de plástico en el costado también se fracturará. Para hacer esta instalación aún más fácil y para aliviar la torsión de los cables, se puede usar una segunda llave sobre la pieza hexagonal al fondo del conector.

NO USE alicates de presión, llaves de turbo, llaves comunes o ajustables ya que éstas pueden dañar el dispositivo hexagonal que regula la torsión. No se requiere una llave de torsión.

ASEGÚRESE QUE SE USE, PARA EL ENSAMBLADO, SÓLO EL DISPOSITIVO SUPERIOR DE REGULACIÓN DE TORSIÓN DE LA CABEZA DEL PERNO. LA SEGUNDA PIEZA HEXAGONAL (LA MÁS CERCANA AL CUERPO DEL CONECTOR) SE USA SÓLO PARA DESARMAR EL CONECTOR.

Nota: El perno regulador de torsión garantiza la aplicación de la torsión correcta a los conductores sin usar una llave de torsión. La información importante de longitud de cable pelado y de toma, las clasificaciones de materiales y temperatura está marcada en el conector.

B-TAP® INSULATION PIERCING TAP CONNECTORS TORQUE AND CURRENT RATINGS

(Solid and/or Stranded)

CATALOG#	MAIN	TAP	NOMINAL TORQUE	TAP CURRENT RATING (IN AMPS)*
BTC2/0-14	2/0-4	10-14+	80 IN. LBS.	40
BTC1/0-10	1/0-8	2-10++	80 IN. LBS.	130
BTC4/0-10	4/0-3	2-10+++	125 IN. LBS.	130
BTC4/0-6	4/0-2	1/0-6	160 IN. LBS.	170
BTC4/0-2	4/0-2	4/0-2	160 IN. LBS.	260
BTC250-6	250-4	4/0-6	160 IN. LBS.	260
BTC250-4	250-1	3/0-4	160 IN. LBS.	225
BTC250-2	250-1/0	4/0-2	160 IN. LBS.	260
BTC350-1/0	350-1/0	350-1/0	330 IN. LBS.	350
BTC500-4	500-2/0	4/0-4	330 IN. LBS.	260
BTC500-1/0	500-4/0	350-1/0	330 IN. LBS.	350
BTC500-14	750-3/0	10-14 +++	80 IN. LBS.	40
BTC750-250	750-250	500-250	330 IN. LBS.	430

+10-14 Cu SOLID/STRANDED; 10-12 Al SOLID/STRANDED

++2-10 Cu SOLID/STRANDED; 2-10 Al STRANDED

+++2-10 Cu SOLID/STRANDED; 2-8 Al STRANDED

+++10-14 Cu SOLID/STRANDED; 10-12 Al STRANDED

Full line is 600V dual-rated, 194°F(90°C)

* Based on NEC Table 310-16 1996 (Not more than 3 insulated conductors in a raceway at ambient temperature of 30° C) for the largest tap wire size.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



ADVERTENCIA: Cáncer y Daño Reproductivo - www.P65Warnings.ca.gov.

One year limited warranty. See idealind.com for more information.

Garantía limitada de un año. Visite www.idealind.com para obtener detalles de la garantía.



1800 S. Prairie Drive
Sycamore, IL., U.S.A.
800-435-0705 • www.idealind.com

ND 9053-3
1839420



TEAM SUNSHINE CONSTRUCTION LLC
24 SPICE ST BOSTON, MA02129
PHONE - (617) 580-8649
LIC. NO. - 115062

SIGNATURE AND SEAL

REVISIONS

DESCRIPTION	DATE	REV
CAD	22-AUG-25	00

PROJECT NAME & ADDRESS

FRANK ROBINSON 1
RESIDENCE

165 WESTMINSTER ST APT 1
SPRINGFIELD, MA 01109,USA

APN#:
122010043

AHJ NAME
SPRINGFIELD

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

S-08

10/24/2025

RE: Structural Certification for Installation of Residential Solar
FRANK ROBINSON 1:165 WESTMINSTER ST APT 1, SPRINGFIELD, MA 01109,USA

Attn: To Whom It May Concern

This Letter is for the existing roof framing which supports the new PV modules as well as the attachment of the PV system to existing roof framing. From the field observation report, the roof is made of Composition shingle roofing over roof plywood supported by 2X6 Rafters at 20 inches, 2X6 Rafters at 18 inches and 2X6 Rafters at 24 inches. The slope of the roof was approximated to be 45 degrees.

After review and based on our structural capacity calculation, the existing roof framing has been determined to be adequate to support the imposed loads without structural upgrades. Contractor shall verify that existing framing is consistent with the described above before install. Should they find any discrepancies, a written approval from SEOR is mandatory before proceeding with install. Capacity calculations were done in accordance with applicable building codes.

Design Criteria

Code	2021 IRC (ASCE 7-16)-CMR 780 10th Ed			
<u>Risk category</u>		II	<u>Wind Load</u>	(component and Cladding)
<u>Roof Dead Load</u>	Dr	10 psf	V	120 mph
<u>PV Dead Load</u>	DPV	3 psf	Exposure	B
<u>Roof Live Load</u>	Lr	20 psf		
<u>Ground Snow</u>	S	35 psf		

If you have any questions on the above, please do not hesitate to call.

Sincerely,

Vincent Mwumvaneza, P.E.
EV Engineering, LLC
projects@evengineersnet.com
<http://www.evengineersnet.com>



Signed: 10/24/2025

Structural Letter for PV Installation

10/24/2025

Job Address: 165 WESTMINSTER ST APT 1
SPRINGFIELD, MA 01109,USA

Job Name: FRANK ROBINSON 1

Job Number: 102425FR1

Scope of Work

This Letter is for the existing roof framing which supports the new PV modules as well as the attachment of the PV system to existing roof framing. All PV mounting equipment shall be designed and installed per manufacturer's approved installation specifications.

Table of Content

Sheet

- | | |
|---|---------------------------------|
| 1 | Cover |
| 2 | Attachment checks |
| 3 | Snow and Roof Framing Check |
| 4 | Seismic Check and Scope of work |

Engineering Calculations Summary

<u>Code</u>	2021 IRC (ASCE 7-16)-CMR 780 10th Ed	
<u>Risk category</u>	II	
<u>Roof Dead Load</u>	Dr	10 psf
<u>PV Dead Load</u>	DPV	3 psf
<u>Roof Live Load</u>	Lr	20 psf
<u>Ground Snow</u>	S	35 psf
<u>Wind Load</u>	(component and Cladding)	
	V	120 mph
	Exposure	B

References

NDS for Wood Construction

Signed: 10/24/2025

Sincerely,

Vincent Mwumvaneza, P.E.

EV Engineering, LLC

projects@evengineersnet.com

<http://www.evengineersnet.com>



Wind Load Cont.

Risk Category =	II	
Wind Speed (3s gust), V =	120 mph	ASCE 7-16 Figure 26.5-1B
Exposure =	B	
K_{zt} =	1.0	ASCE 7-16 Sec 26.8.2
K_z =	0.61	ASCE 7-16 Table 26.10-1
K_d =	0.85	ASCE 7-16 Table 26.6-1
K_e =	1.00	ASCE 7-16 Table 26.9-1
$q_h = 0.00256 K_z K_{zt} K_d K_e V^2$ =	18.94 psf	
Pitch =	45.0 Degrees	
γ_E =	1.5	Conservatively assuming all exposed
γ_a =	0.8	conservatively assuming 10 ft ² effective area

		Zone(1,2e,2r)	Zone(2n)	Zone(3r)	Zone(3e)
Uplift (W)					
Fig. 30-3-2	GC_p =	-1.1	-1.1	-1.45	-1.8
Eq. 29.4-7	$P = q_h(GC_p)(\gamma_E)(\gamma_a)$ =	-25.00	-25.00	-32.95	-40.90
	GC_p =	0.9			
	$P = q_h(GC_p)(\gamma_E)(\gamma_a)$ =	20.45			

Figure 30.3-2
Equation 29.4-7

Rafter Attachments: 0.6D+0.6W (CD=1.6)

Connection Check

Attachment max. spacing =	3 ft	
UNIRAC Stronghold Butyl Withdrawal Value =	166 lbs	Manufacturer Test

Safety Factor

		Allowable Capacity =	166 lbs	
Zone	Trib Width	Area (ft)	Uplift (lbs)	Down (lbs)
Zone(1,2e,2r)	3	8.5	86.0	120.0
Zone(2n)	3	4.9	49.1	120.0
Zone(3r)	3	4.9	63.1	120.0
Zone(3e)	3	4.9	77.1	120.0
	Conservative Max =		86.0	< 166
CONNECTION IS OK				

1. Pv seismic dead weight is negligible to result in significant seismic uplift, therefore the wind uplift governs

Vertical Load Resisting System Design

Roof Framing

Rafters

$$\begin{aligned}
 P_g &= 35 \text{ psf} & p_f &= 24 \text{ psf} \\
 C_e &= 0.9 & p_{fmin.} &= 35.0 \text{ psf} \\
 C_t &= 1.1 & p_s &= 35 \text{ psf} & 24.3 \text{ plf} \\
 I_s &= 1.0 & CS &= 0.42 \\
 \text{Max Length, } L &= 9.0 \text{ ft} \\
 \text{Tributary Width, } W_T &= 20 \text{ in} \\
 D_r &= 10 \text{ psf} & 16.7 \text{ plf} \\
 P_vDL &= 3 \text{ psf} & 5 \text{ plf}
 \end{aligned}$$

Load Case: DL+0.6W

$$\begin{aligned}
 P_{net} + P_{pv}\cos(\theta) + P_{DL} &= 42.1 \text{ plf} \\
 \text{Max Moment, } M_u &= 190 \text{ lb-ft} & \text{Conservatively} \\
 P_v \text{ max Shear} &= 120.0 \text{ lbs} \\
 \text{Max Shear, } V_u = wL/2 + P_v \text{ Point Load} &= 218 \text{ lbs}
 \end{aligned}$$

Load Case: DL+0.75(0.6W+S)

$$\begin{aligned}
 0.75(P_{net} + P_s) + P_{pv}\cos(\theta) + P_{DL} &= 54 \text{ plf} \\
 M_{down} &= 242 \text{ lb-ft} \\
 \text{Mallowable} = S_x \times F_b' \text{ (wind)} &= 1319 \text{ lb-ft} > 242 \text{ lb-ft} \quad \text{OK}
 \end{aligned}$$

Load Case: DL+S

$$\begin{aligned}
 P_s + P_{pv}\cos(\theta) + P_{DL} &= 45 \text{ plf} \\
 M_{down} &= 200 \text{ lb-ft} \\
 \text{Mallowable} = S_x \times F_b' \text{ (wind)} &= 948 \text{ lb-ft} > 200 \text{ lb-ft} \quad \text{OK}
 \end{aligned}$$

$$\text{Max Shear, } V_u = wL/2 + P_v \text{ Point Load} = 242 \text{ lbs}$$

Member Capacity

SPF #1/#2

2X6	Design Value	C_L	C_F	C_i	C_r				Adjusted Value
$F_b =$	875 psi	1.0	1.3	1.0	1.15				1308 psi
$F_v =$	135 psi	N/A	N/A	1.0	N/A				135 psi
$E =$	1400000 psi	N/A	N/A	1.0	N/A				1400000 psi

$$\text{Depth, } d = 5.5 \text{ in}$$

$$\text{Width, } b = 1.5 \text{ in}$$

$$\text{Cross-Sectional Area, } A = 8.25 \text{ in}^2$$

$$\text{Moment of Inertia, } I_{xx} = 20.797 \text{ in}^4$$

$$\text{Section Modulus, } S_{xx} = 7.5625 \text{ in}^3$$

$$\text{Allowable Moment, } M_{all} = F_b' S_{xx} = 824.4 \text{ lb-ft} \quad DCR = M_u / M_{all} = 0.20 < 1$$

$$\text{Allowable Shear, } V_{all} = 2/3 F_v' A = 742.5 \text{ lb} \quad DCR = V_u / V_{all} = 0.22 < 1$$

Satisfactory

Satisfactory

Seismic Loads Check

Roof Dead Load	10 psf
% or Roof with Pv	14%
Dpv and Racking	3 psf
Average Total Dead Load	10.4 psf
Increase in Dead Load	1.7% OK

The increase in seismic Dead weight as a result of the solar system is less than 10% of the existing structure and therefore no further seismic analysis is required.

Limits of Scope of Work and Liability

We have based our structural capacity determination on information in pictures and a drawing set titled PV plans -FRANK ROBINSON 1. The analysis was according to applicable building codes, professional engineering and design experience, opinions and judgments. The calculations produced for this structure's assessment are only for the proposed solar panel installation referenced in the stamped plan set and were made according to generally recognized structural analysis standards and procedures.

To: City of Springfield, MA

Date: 11/17/2025

To Whom It May Concern,

I, Frank Robinson, am the legal owner of the property located at 165 Westminster St, Springfield, MA 01109, USA

I hereby authorize Team Sunshine Construction LLC, including its employees, contractors, and representatives, to act as my authorized agent for the purpose of:

- Applying for and obtaining all necessary permits
- To act as my representative at the historic approval meeting.

This authorization includes the right to sign permit applications, submit documentation, and perform other related duties as required by the jurisdiction for the successful completion of the solar installation project.

This authorization shall remain in effect until further notice.

Homeowner Information:

Full Name: Frank Robinson

Phone Number: (413) 5316799

Email: frank.robinson@me.com

Signature: _____

Date: _____

AUTHORIZED COMPANY INFORMATION:

Company Name: Team Sunshine Construction LLC

Company Address: 577 Main St, Suite 120, Hudson, MA, 01749

Phone: (617) 580-8649

Email: customerservice@teamsunshine.solar



Site Survey

Frank Robinson 1

165 Westminster St, Springfield, MA 01109,

Aug 17, 2025, 1:00pm EDT

0/39 Tasks Completed

Team Sunshine

,

Remi Vora

remion.v@teamsunshine.solar

6172093732

☐ **Homeowner Name**

Name and Last Name of the Home owner

☐ **Homeowner Email**

Email of the Home owner

☐ **Homeowner Phone**

Phone number for the Home owner

☐ **Home Address**

Full address of the House being surveyed

☐ **Financing Company**

Is this a Sunrun deal?

☐ **Theolite Pictures**

Only applicable to Sunrun projects. Download the Theolite application

☐ **Sold Design**



 Remi Vora

 07/31/2025, 12:38pm EDT

☐ **Type of Home**

☐ Single Family

☐ Multi Family

☐ Condominium

☐ Mobile/Modular

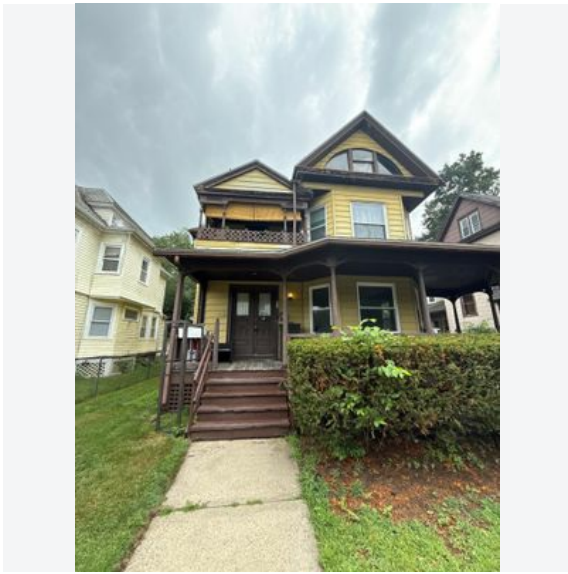
☐ **WiFi Password**

This is needed after the install so we can connect to the monitoring equipment

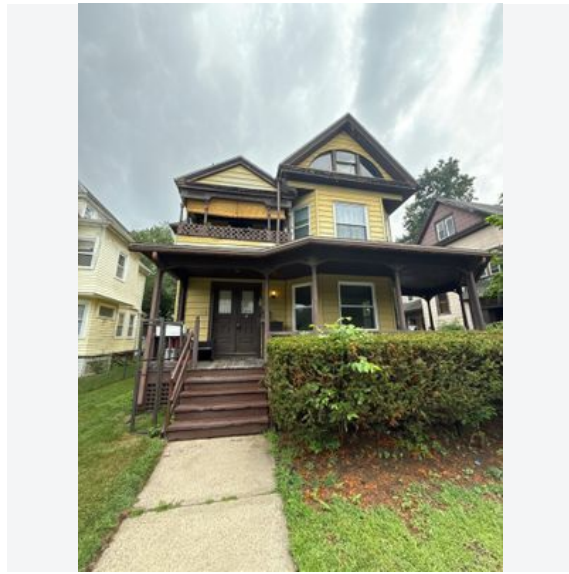
Home Photos

☐ **Front of the house**

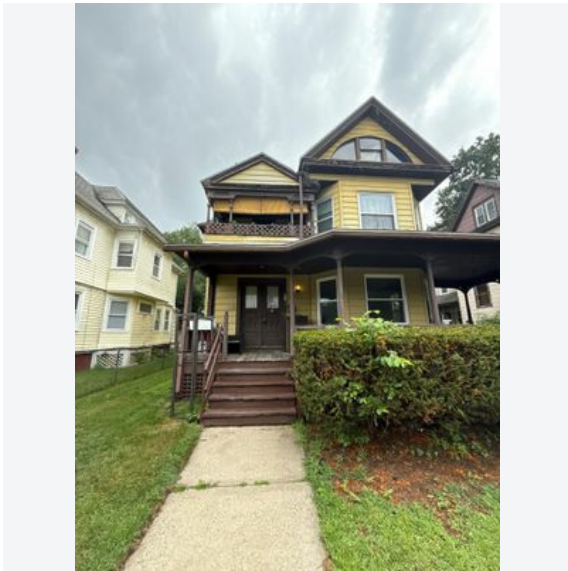
Make sure to include the full address as shown on site



📷 Nicholas Pereira
📅 08/01/2025, 10:31am EDT



📷 Nicholas Pereira
📅 08/01/2025, 10:31am EDT



📷 Nicholas Pereira
📅 08/01/2025, 10:31am EDT

☐ Left side of the house

Take pictures of each side of the house going clockwise starting left



📷 Nicholas Pereira
📅 08/01/2025, 10:31am EDT



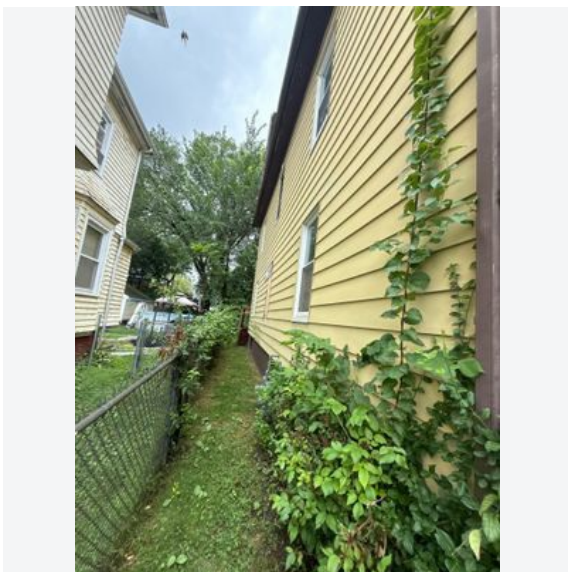
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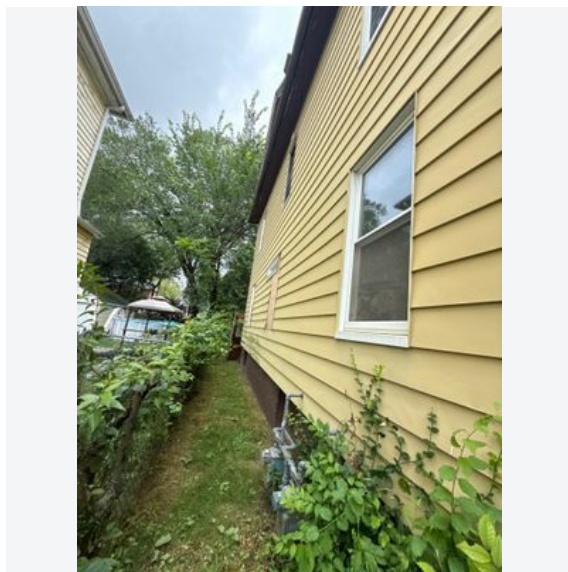
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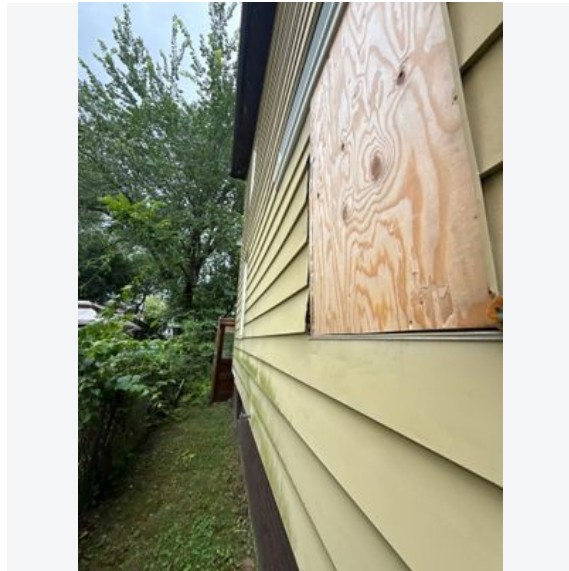
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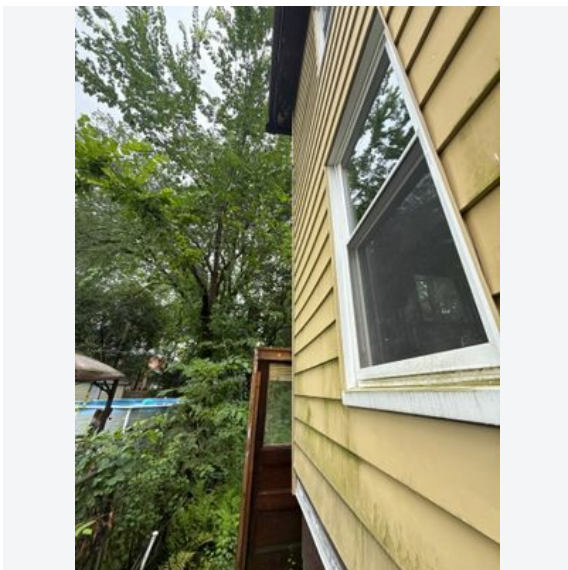
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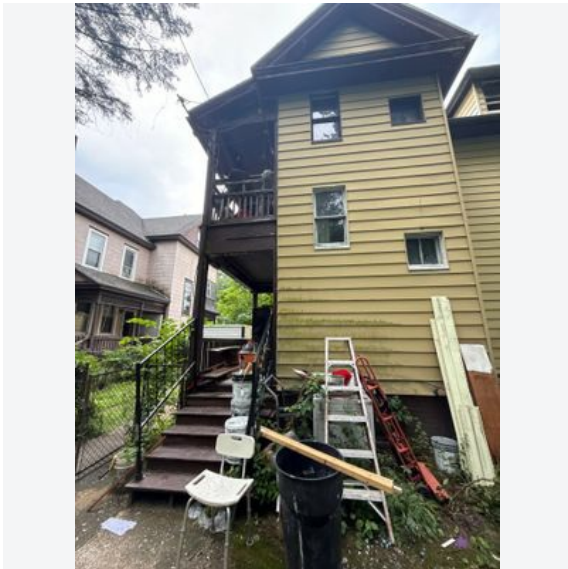
○ Back side of the house



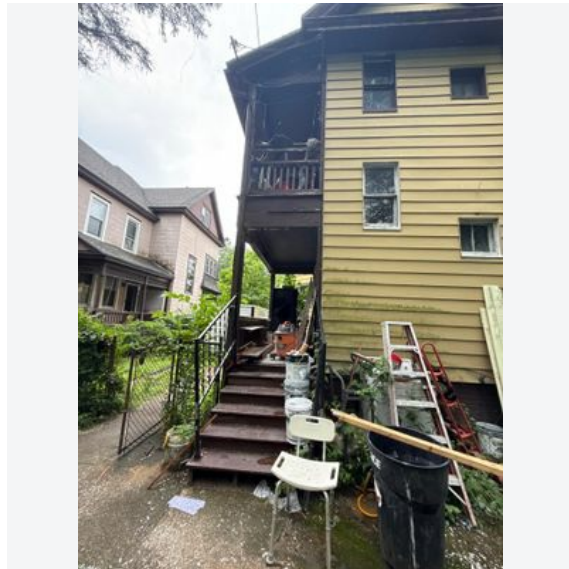
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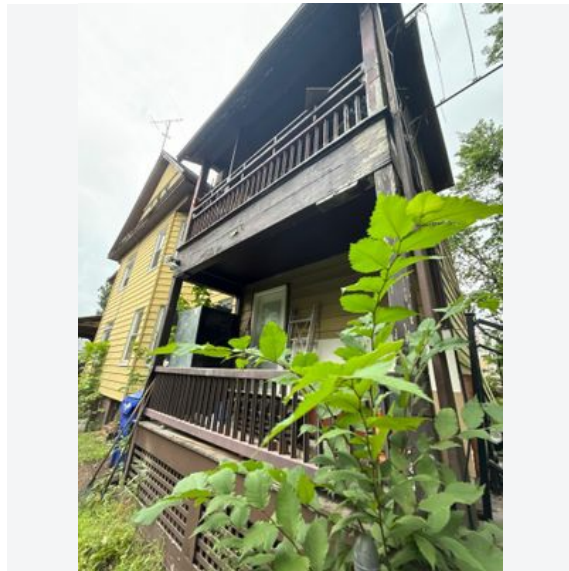


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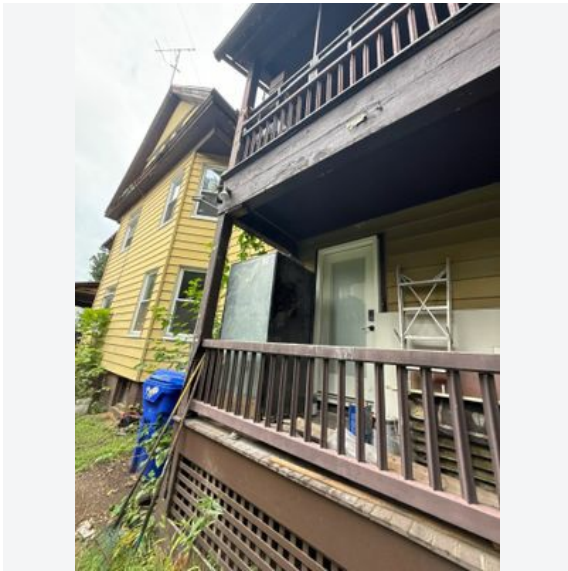
○ Right side of the house



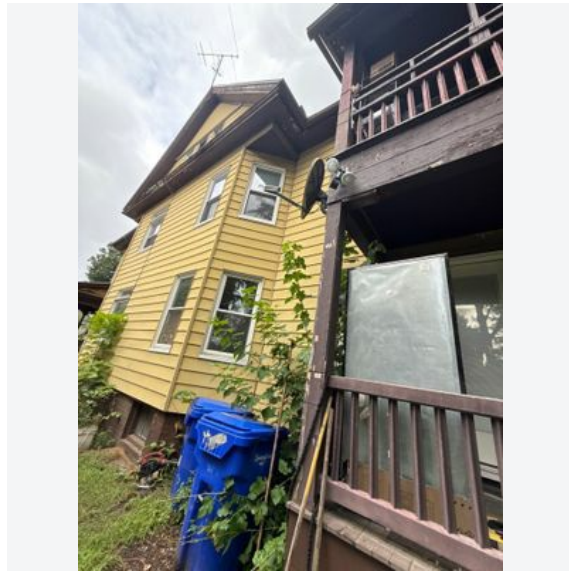
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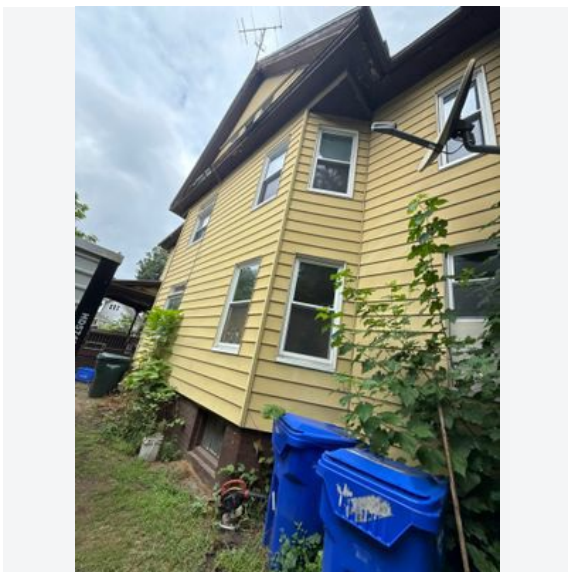
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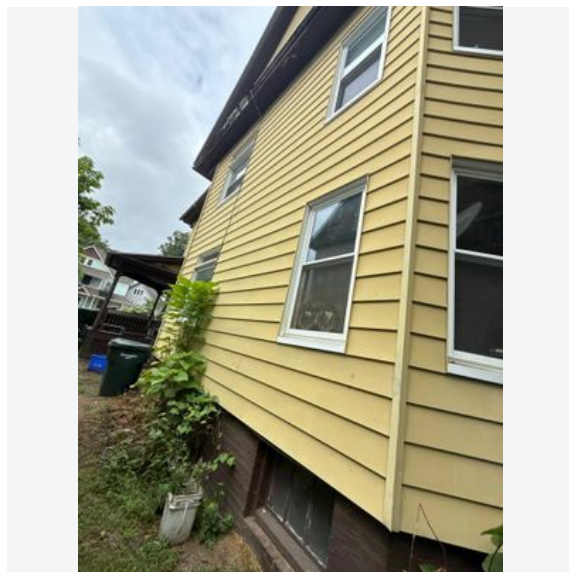
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📷 Nicholas Pereira
📅 08/01/2025, 10:32am EDT



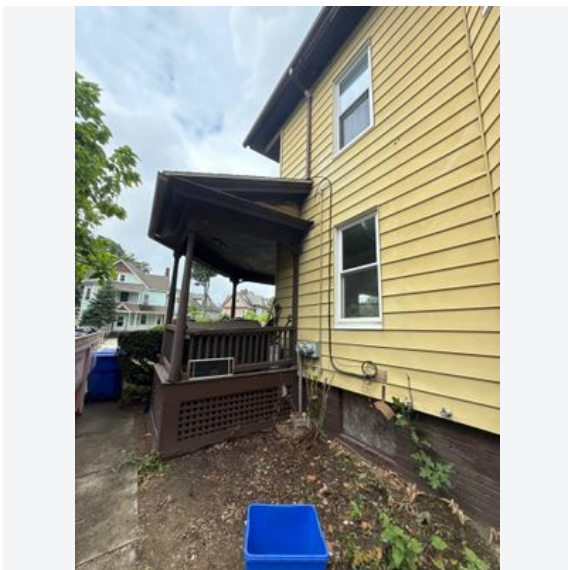
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📅 08/01/2025, 10:32am EDT



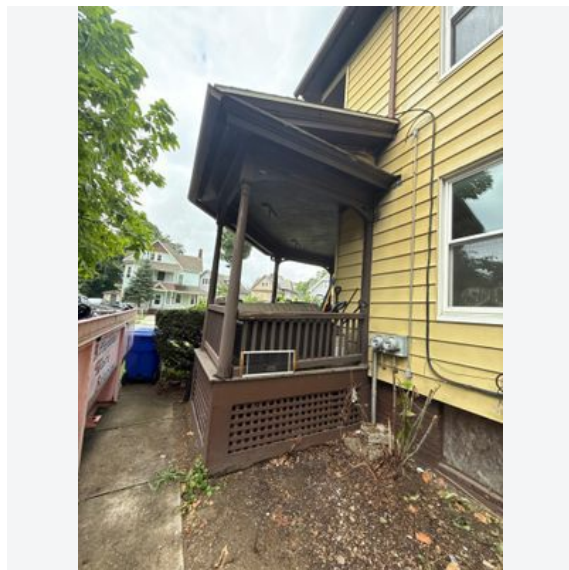
📷 Nicholas Pereira
📅 08/01/2025, 10:32am EDT



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📅 08/01/2025, 10:32am EDT



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📅 08/01/2025, 10:32am EDT



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📅 08/01/2025, 10:32am EDT

○ Service setup

Overhead or Underground Service

☐ Overhead

☒ Underground



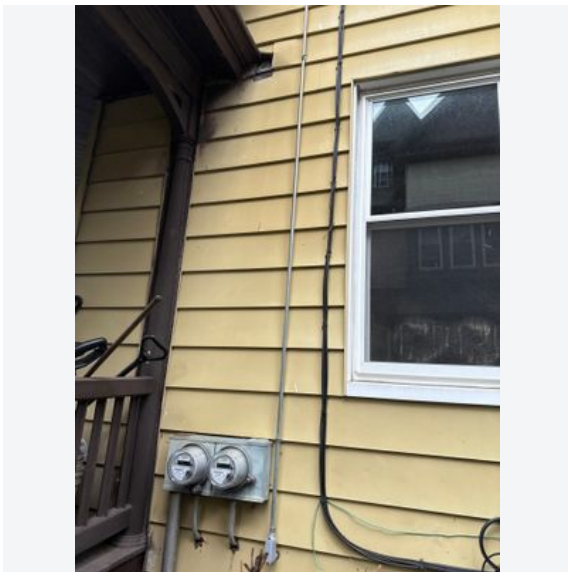
📷 Nicholas Pereira

📅 08/01/2025, 10:32am EDT



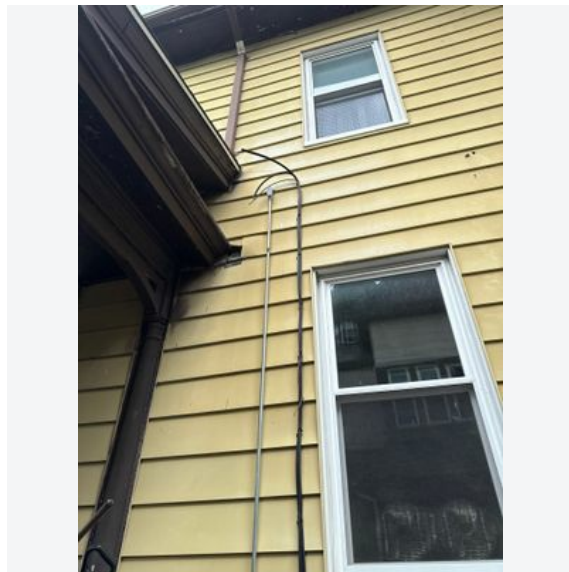
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📅 08/01/2025, 10:32am EDT



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📅 08/01/2025, 10:32am EDT



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📅 08/01/2025, 10:32am EDT

○ Utility Meter

Pictures should be taken from a far as well as close up so the serial numbers can be deciphered

Where is the utility meter located

☒ Left side

☐ Right side

☐ Back of the house

☐ Away from the house

☐ Inside the house

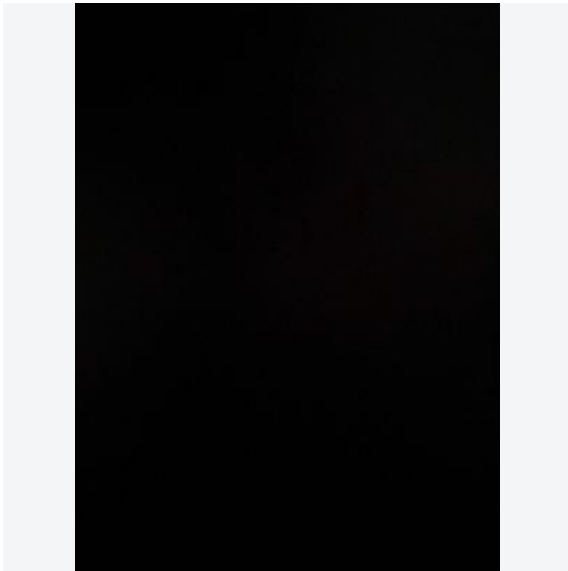
☐ Front of the house



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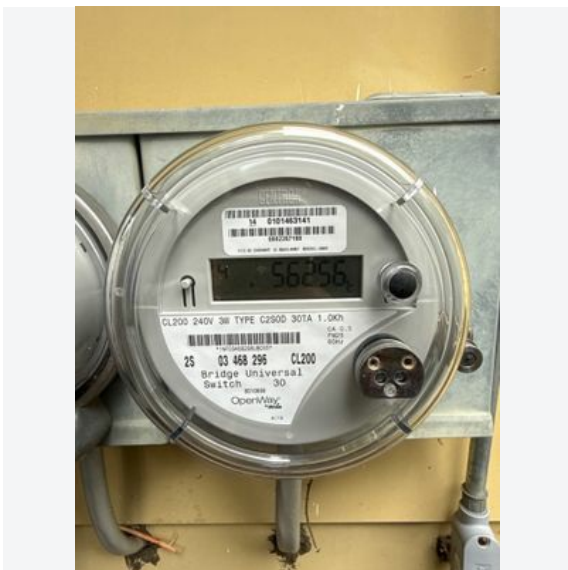
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Nicholas Pereira
 08/01/2025, 10:32am EDT



Nicholas Pereira
 08/01/2025, 10:32am EDT



Nicholas Pereira
 08/01/2025, 10:32am EDT

☐ **Tree Removal**

Take pictures of any trees surrounding the house

Are there trees that might need to be cut or trimmed?

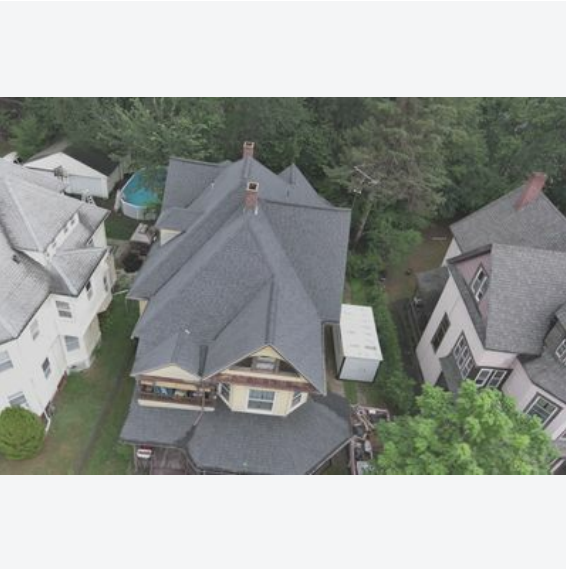
Yes

No

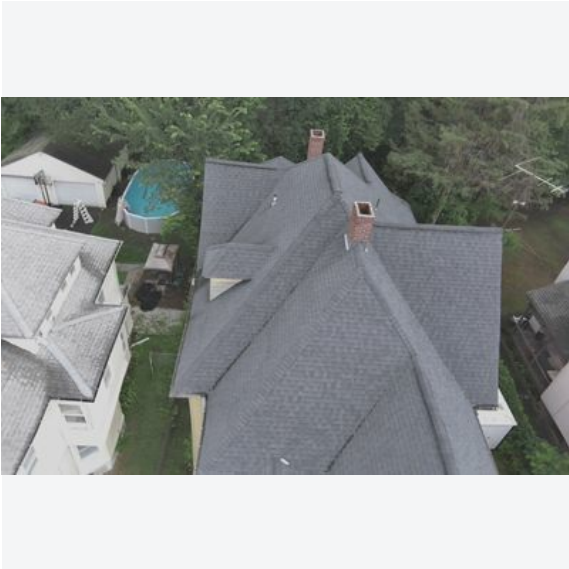
N/A

☐ **Drone Pictures**

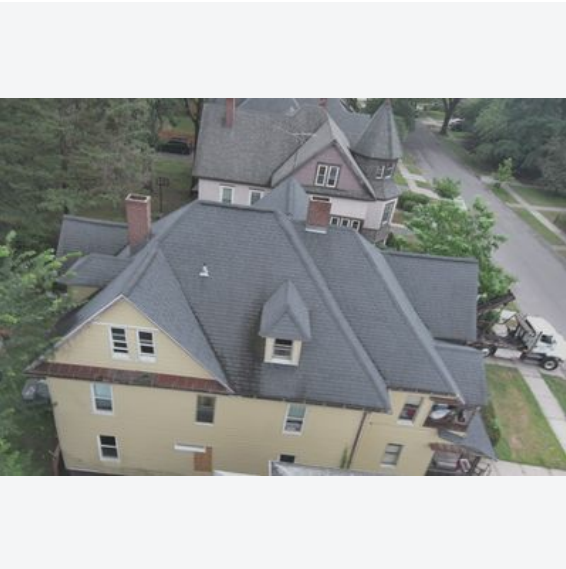
Exterior pictures and video of the house if possible



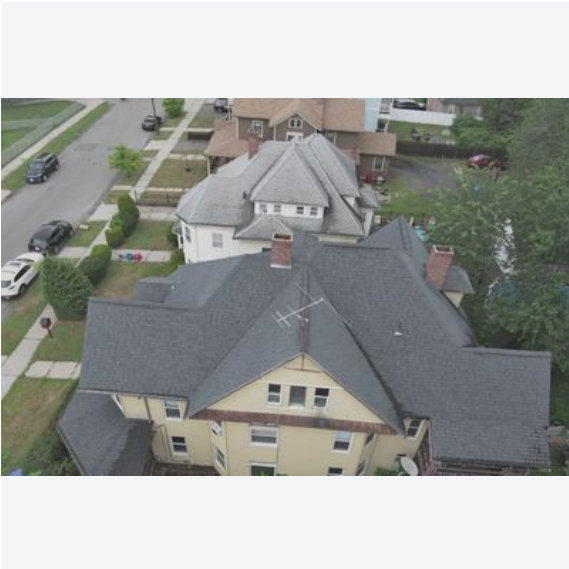
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 08/01/2025, 10:39am EDT



Nicholas Pereira
 08/01/2025, 10:39am EDT



Nicholas Pereira
 08/01/2025, 10:39am EDT



Nicholas Pereira
 08/01/2025, 10:39am EDT



📷 Nicholas Pereira
📅 08/01/2025, 10:41am EDT



📷 Nicholas Pereira
📅 08/01/2025, 10:41am EDT



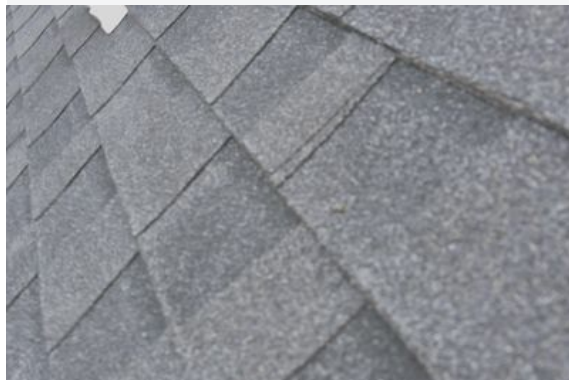
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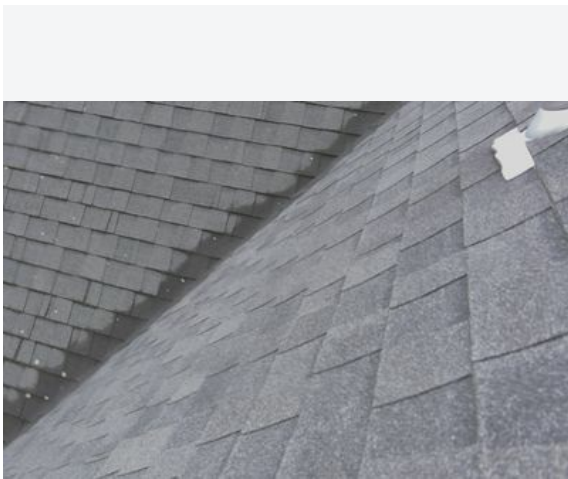
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📅 08/01/2025, 10:41am EDT



📷 Nicholas Pereira
📅 08/01/2025, 10:42am EDT

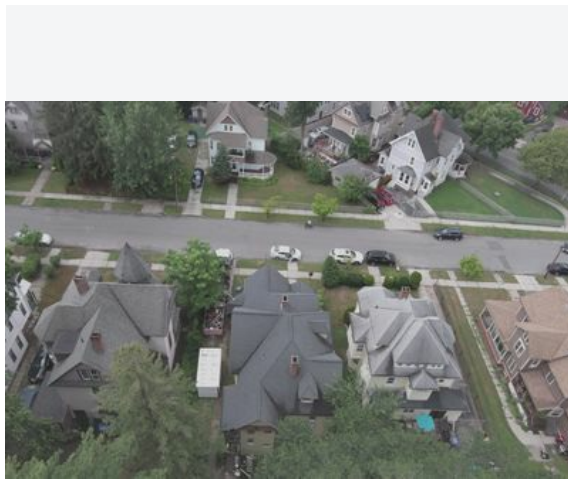


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📅 08/01/2025, 10:42am EDT



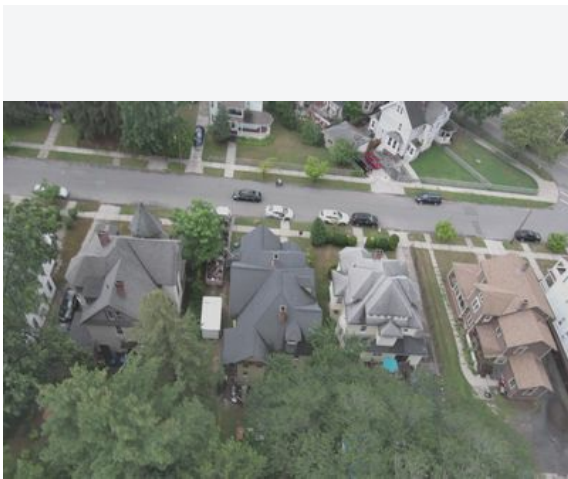
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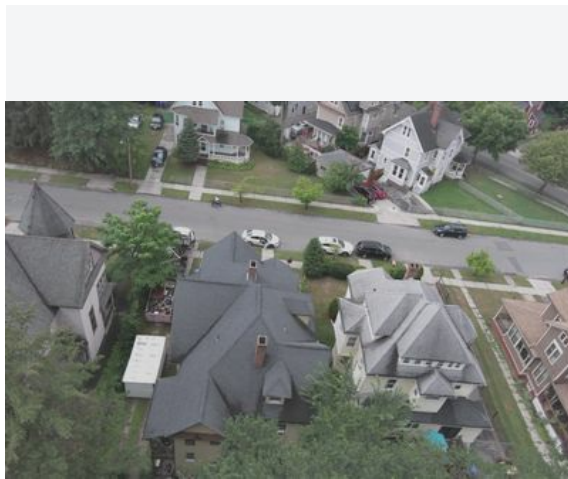
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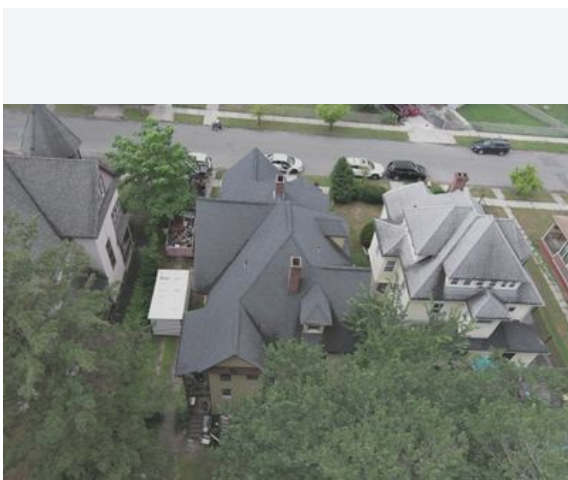
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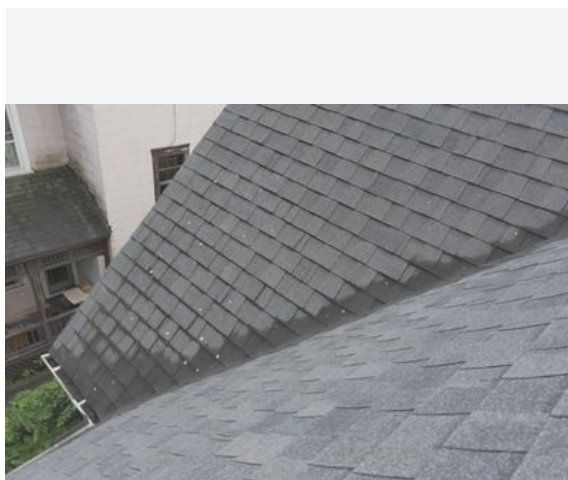
📷 Nicholas Pereira

📅 08/01/2025, 10:47am EDT



📷 Nicholas Pereira

📅 08/01/2025, 10:47am EDT



📷 Nicholas Pereira

📅 08/01/2025, 10:47am EDT

Roof and Attic Information

☐ Roof Plane/ Measurements

1. Roof measurement (Ridge to Eave Tape measure)
2. Obstruction(Tape measure from nearest Ridge/ Eave) for relevant Roof Plane.

☐ Attic Access

Is there access to the attic?

Yes

No

N/A

☐ Interior Conduit

Is an interior conduit possible

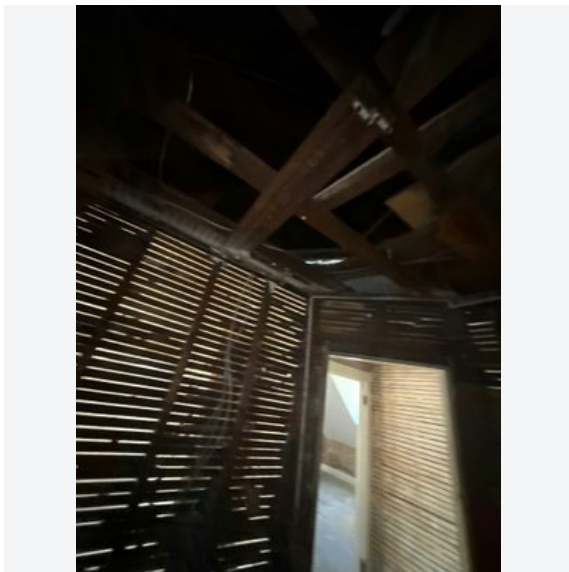
Yes

No

N/A

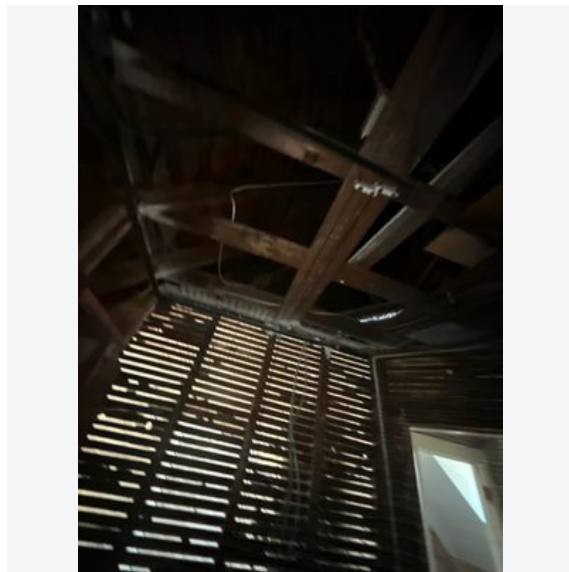
☐ Attic Pictures

Take as many pictures of the attic as possible



 Nicholas Pereira

 08/07/2025, 12:12pm EDT

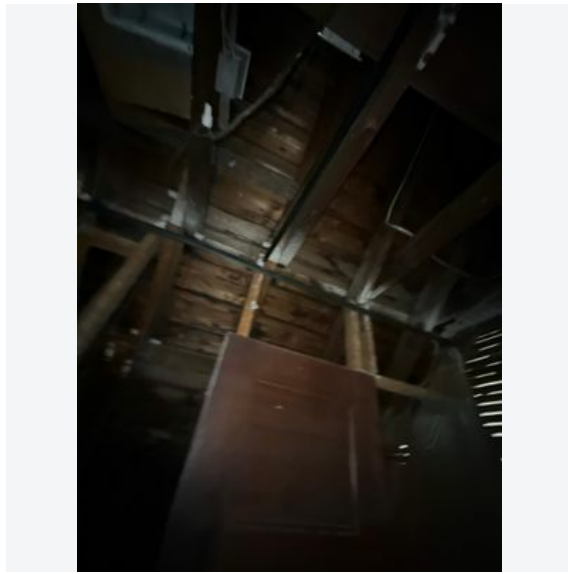


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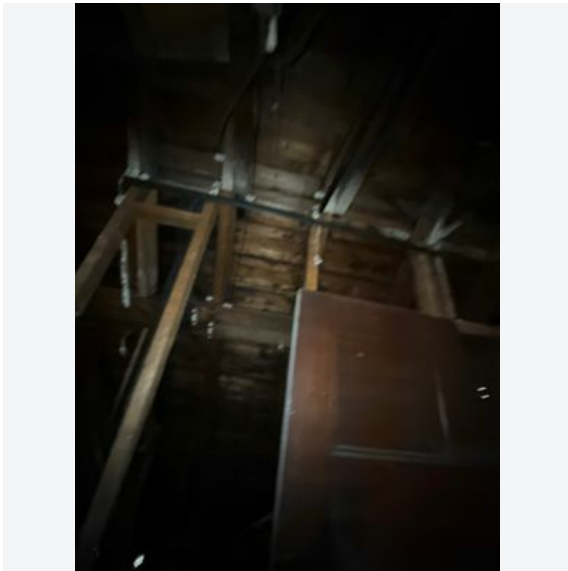
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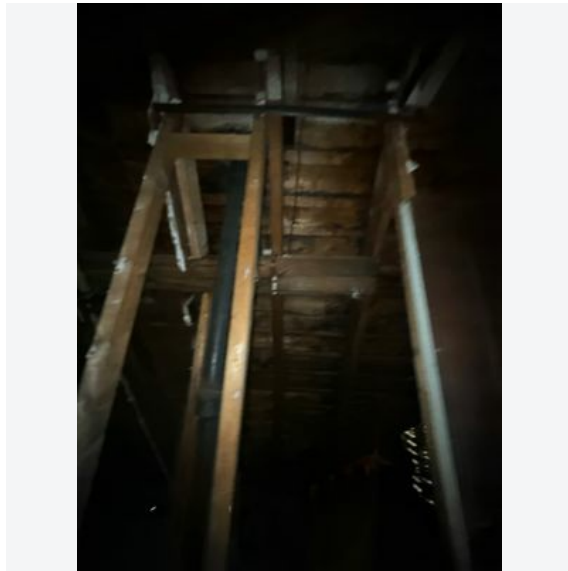
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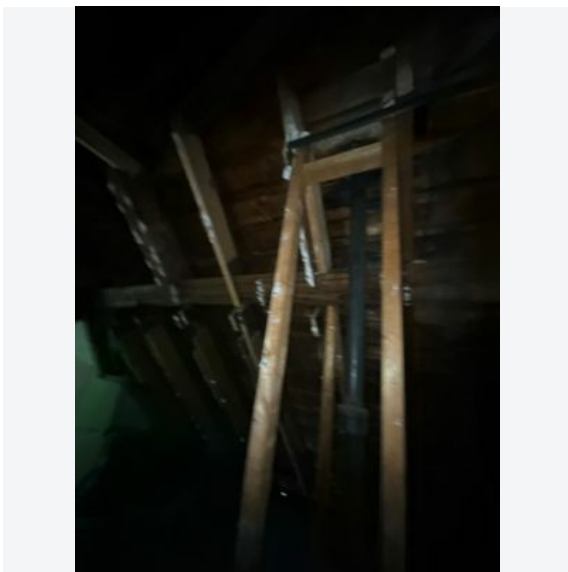
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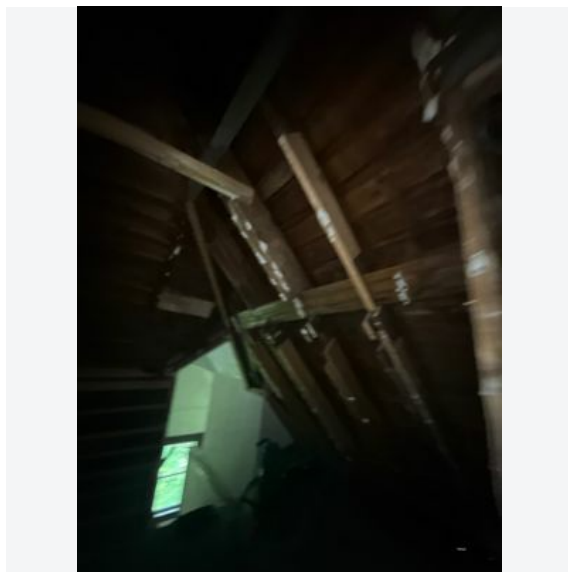
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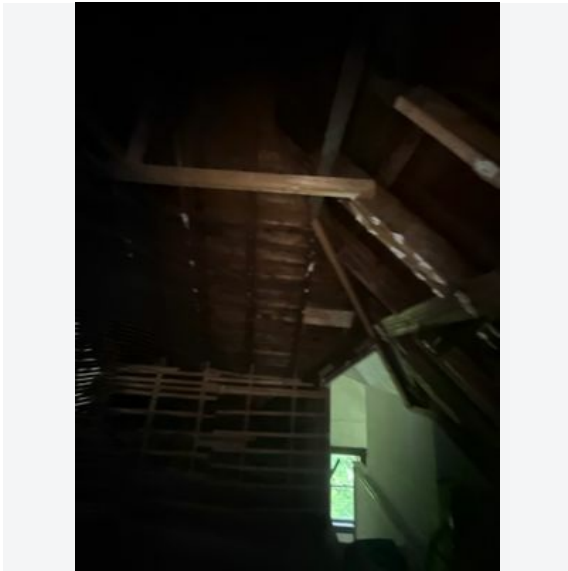
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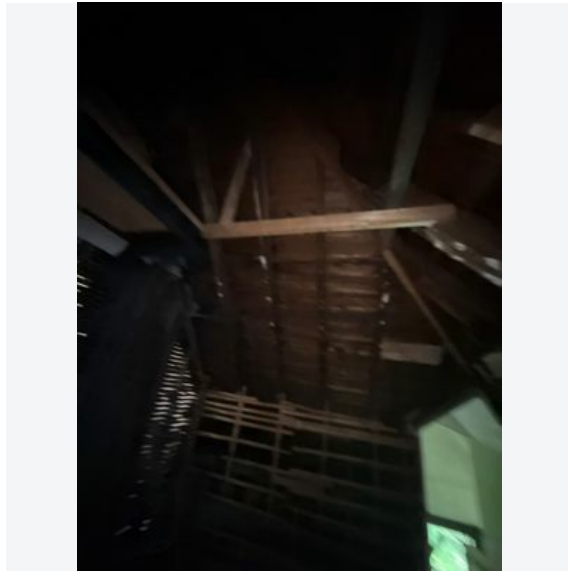
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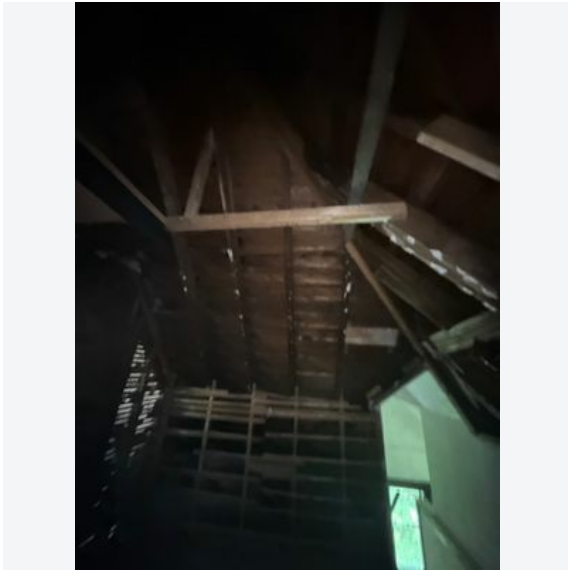
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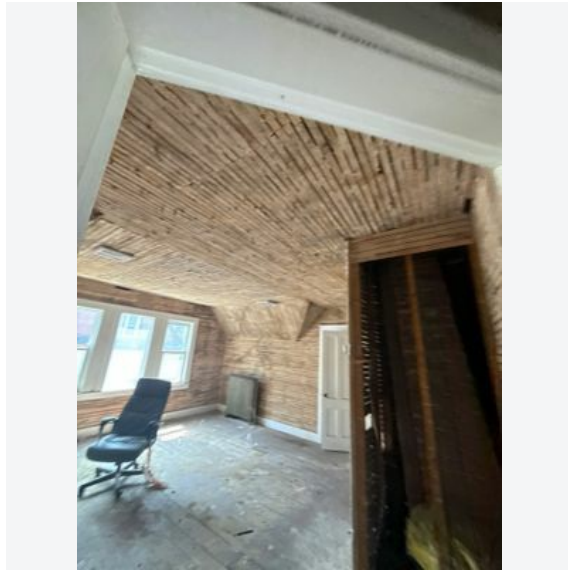
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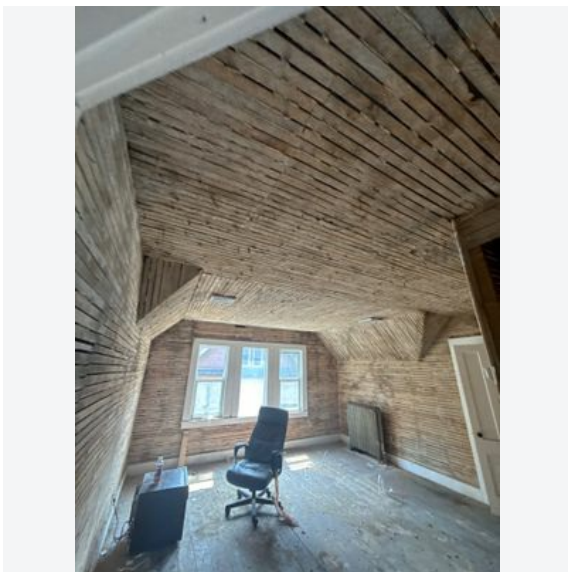
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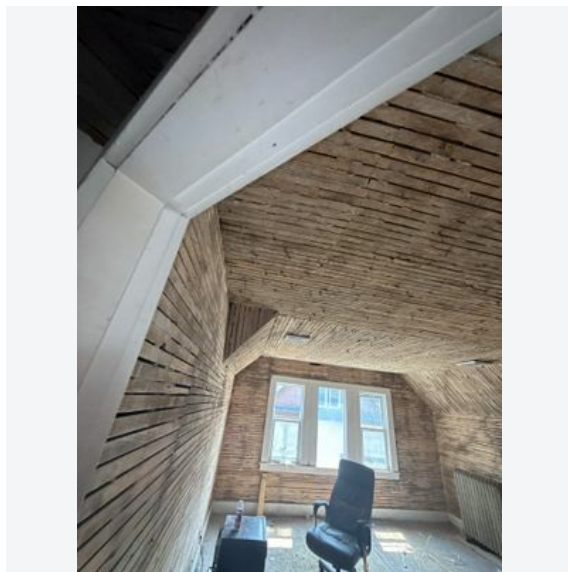
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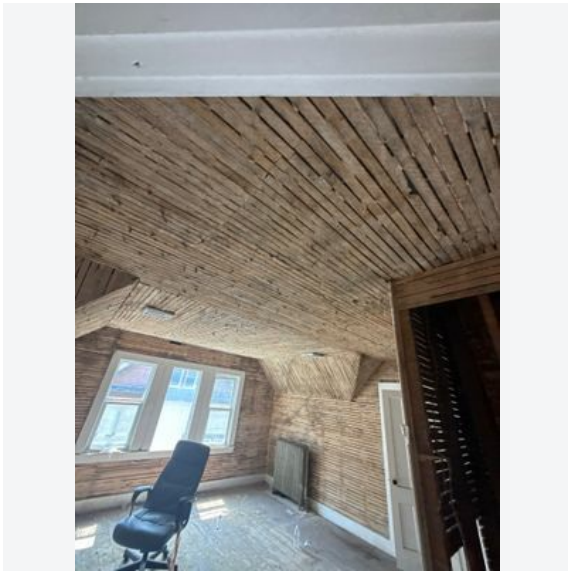
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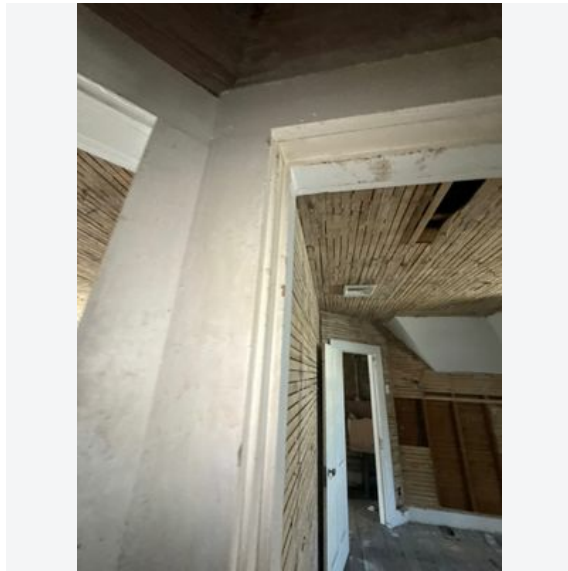
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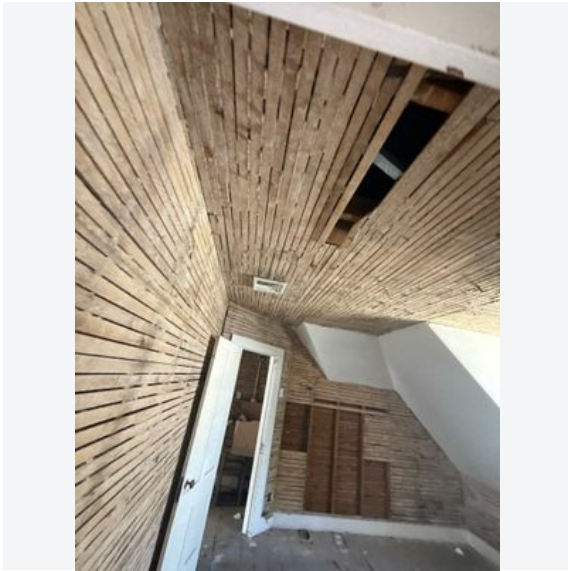
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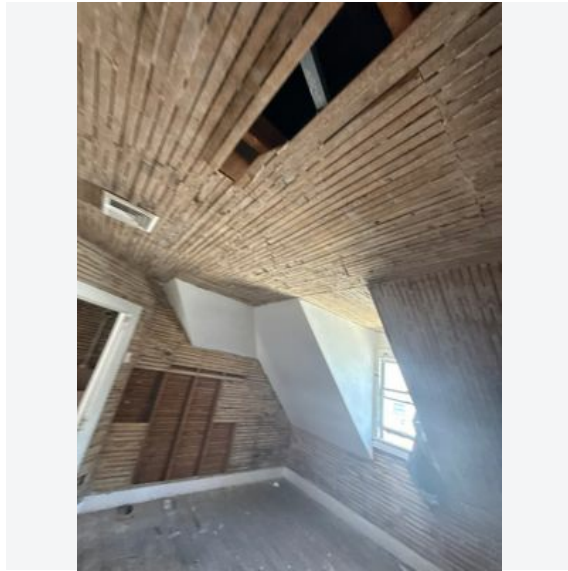
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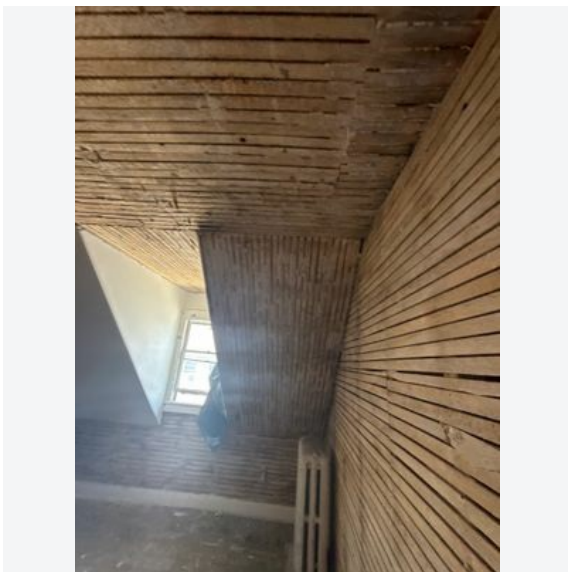
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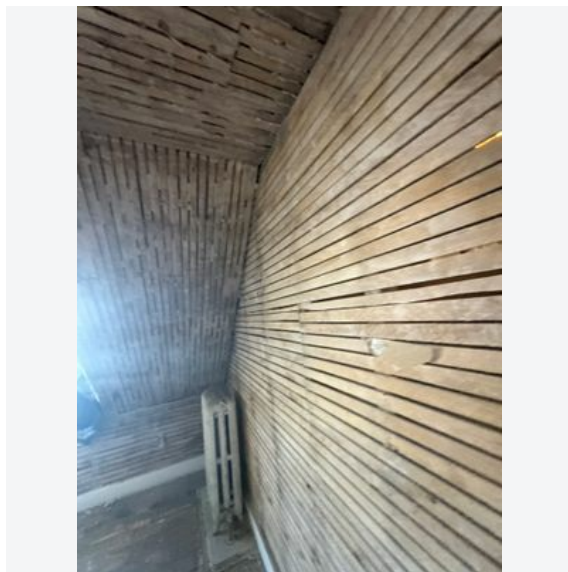
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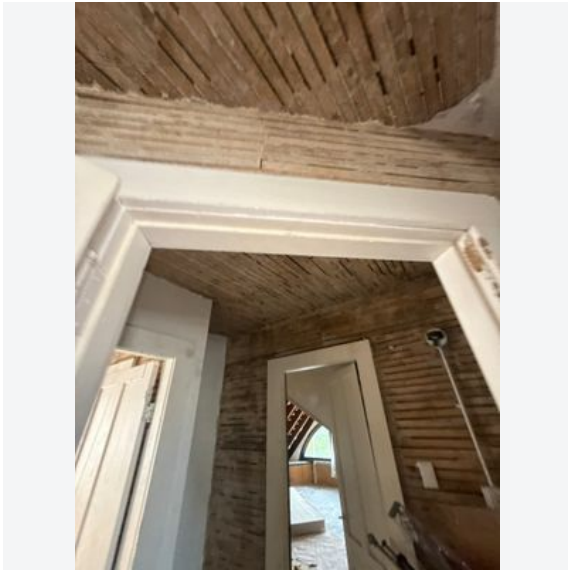
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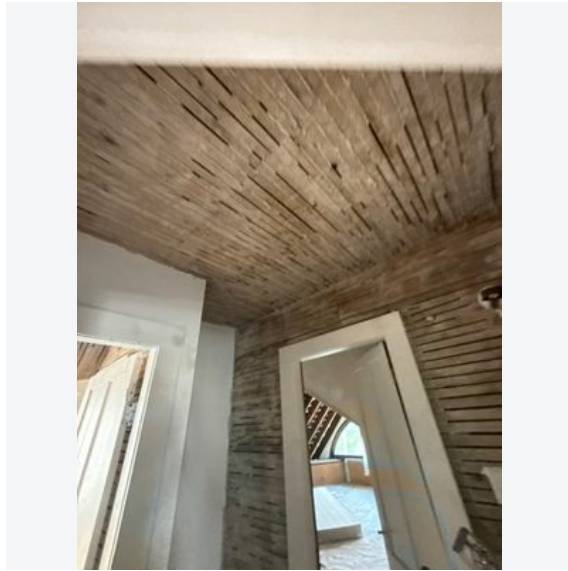
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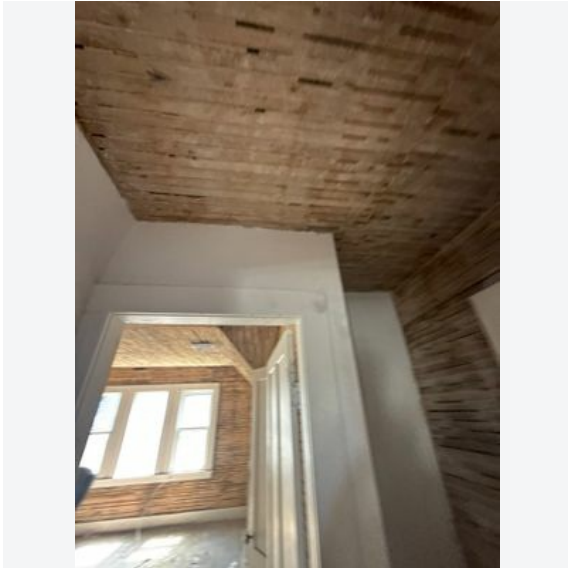
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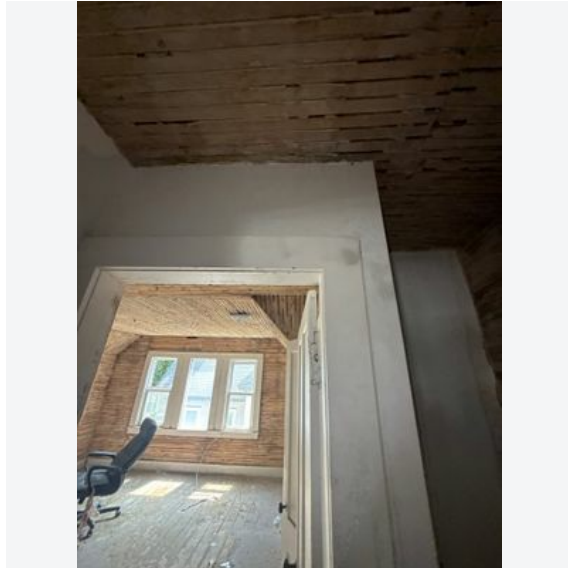
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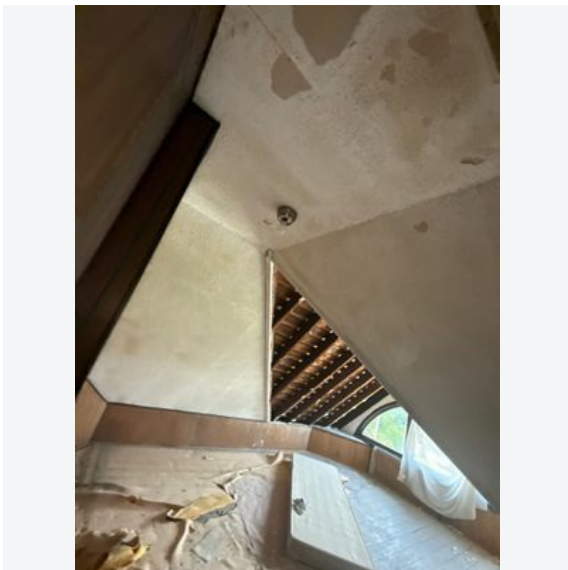
 Nicholas Pereira
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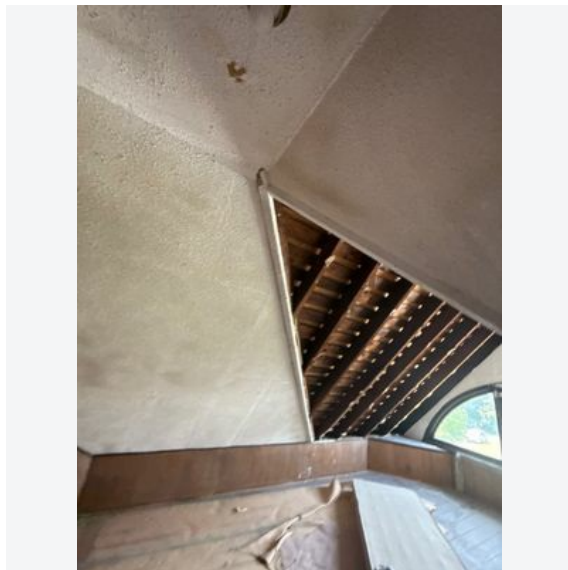
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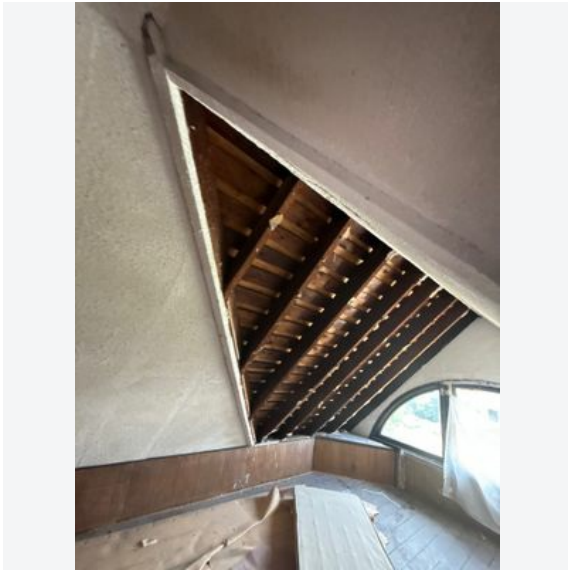
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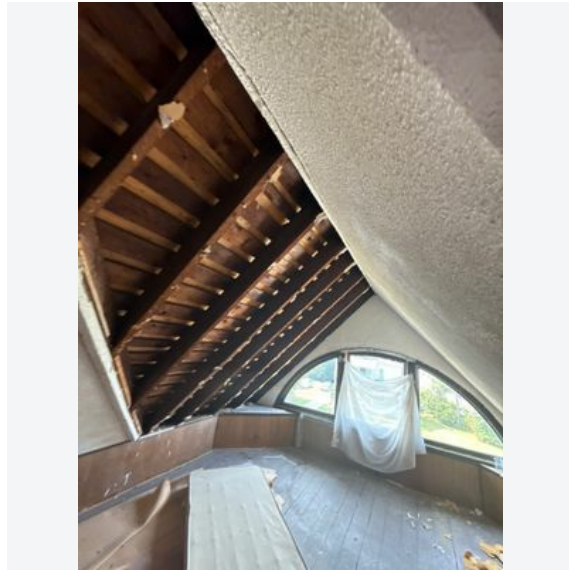
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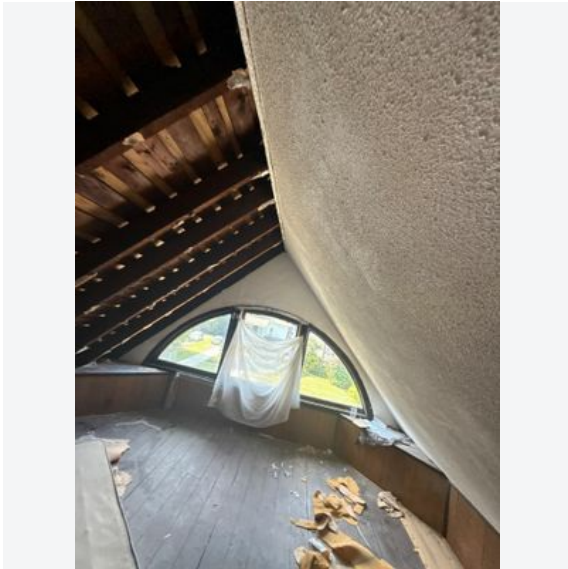
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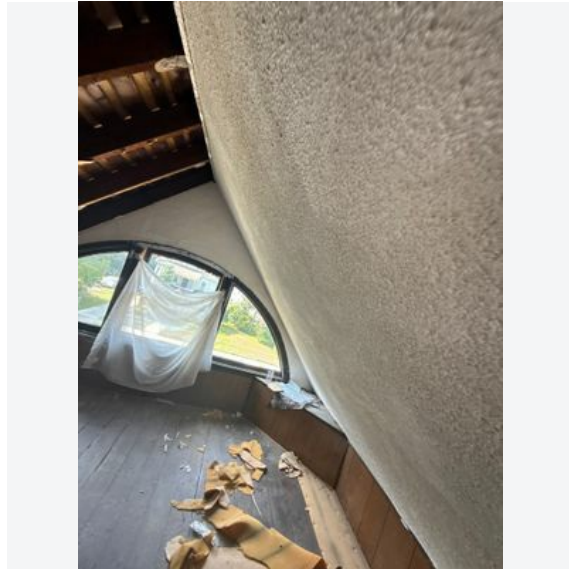
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Nicholas Pereira
 08/07/2025, 12:12pm EDT



Nicholas Pereira
 08/07/2025, 12:12pm EDT

☐ Truss pictures and measurements

Measure all rafters and any other support in length and width

Is this a truss system

Yes

No

N/A

☐ Rafter depth

The measurements of the rafters

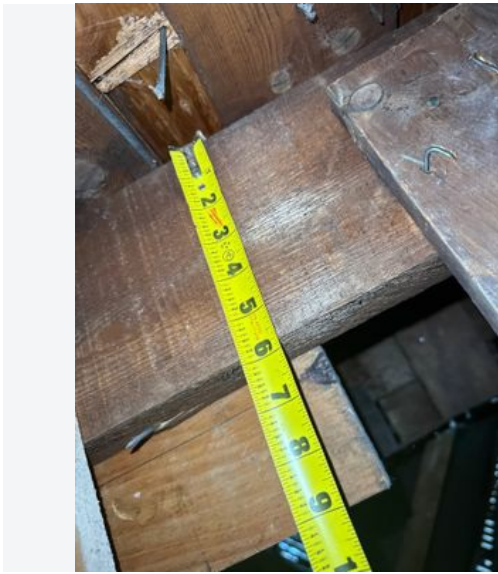
☐ 2x4

☒ 2x6

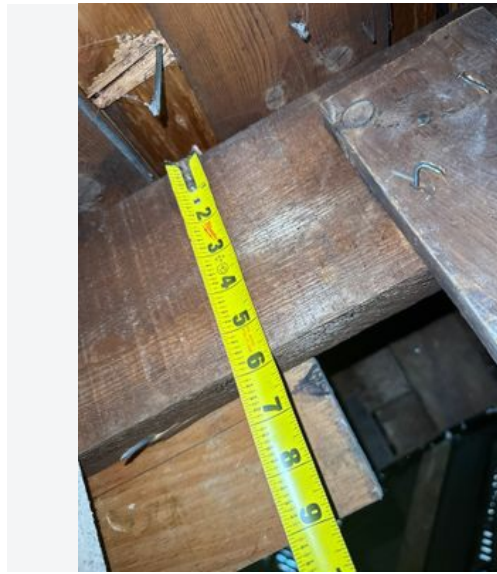
☐ 2x8

☐ 2x10

☐ 2x12



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 Nicholas Pereira
 08/07/2025, 12:10pm EDT

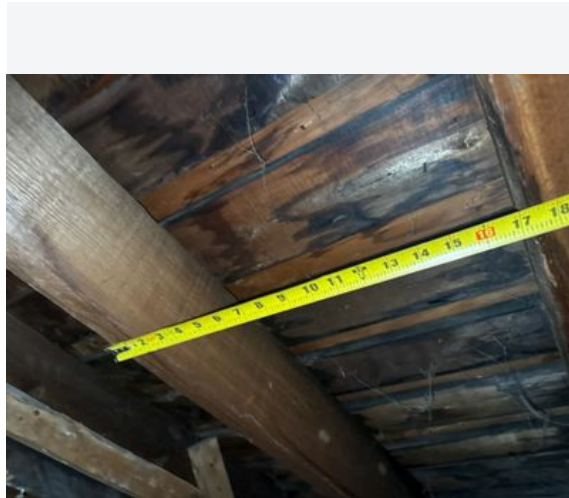
☐ Rafter spacing

Write down the space between rafters

Front side on the house is 24 and the back is 16s



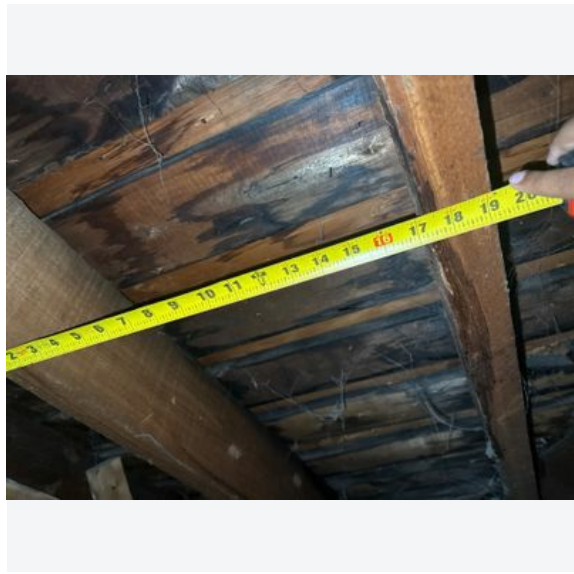
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 08/07/2025, 12:11pm EDT



 Nicholas Pereira
 08/07/2025, 12:11pm EDT



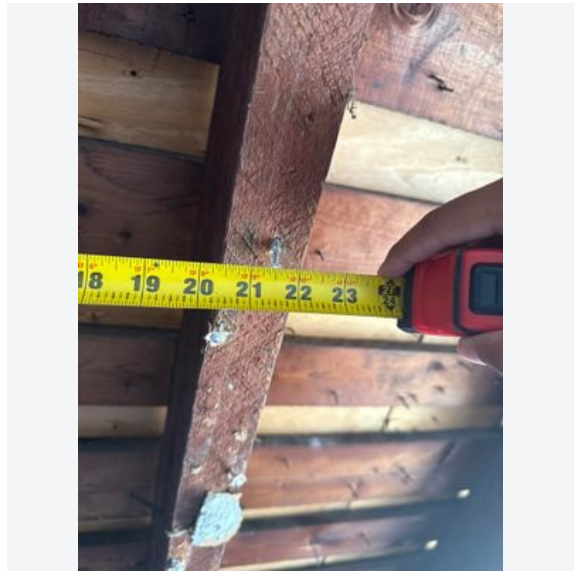
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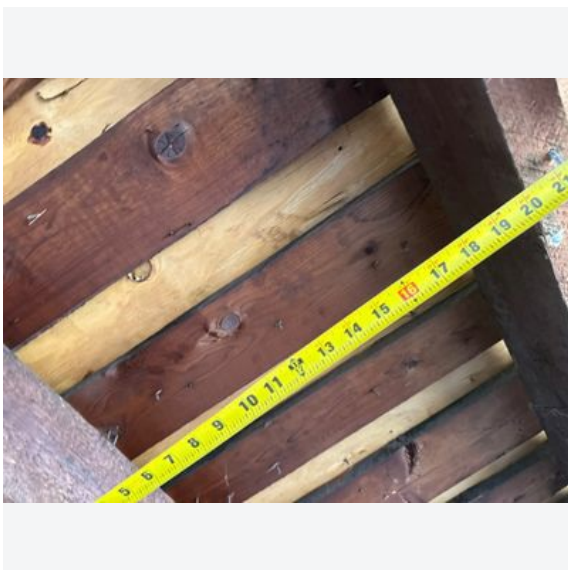
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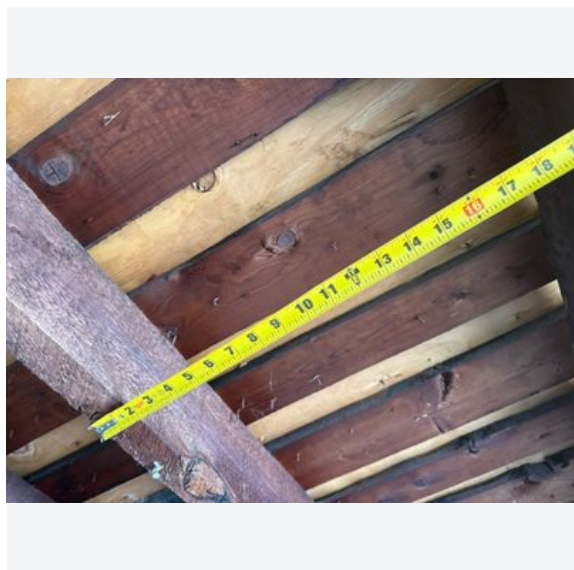
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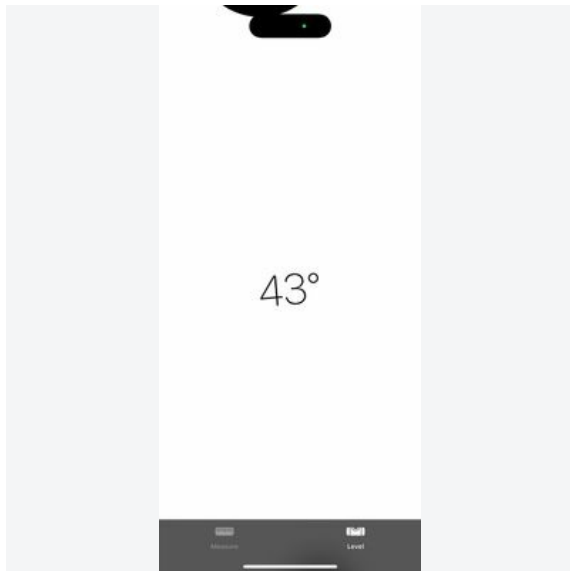
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☐ Roof tilt

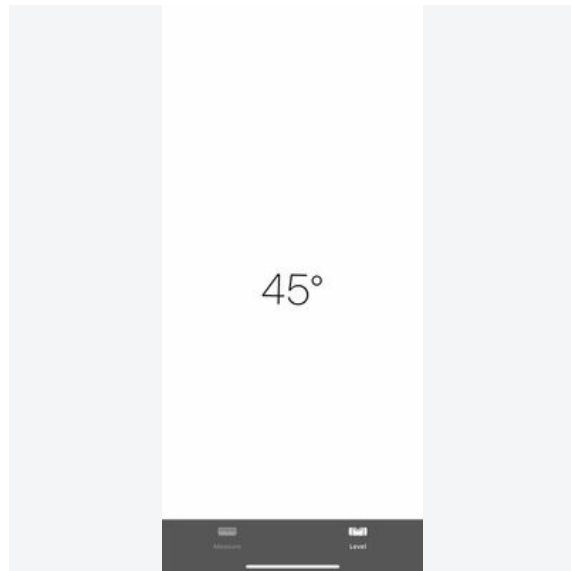
Take note of which array is being measured and the angle it shows

Is this the array where panels are being installed. If more than one array please measure and explain each array

Back side roof is 43 front are 45



Nicholas Pereira
 08/07/2025, 12:11pm EDT



Nicholas Pereira
 08/07/2025, 12:13pm EDT

☐ Steep roof

Is this a steep roof?

☐ Yes, over 38°

☒ Yes, over 45°

☐ Roof type

Roof Type

☒ Asphalt shingle

☐ Clay tile

☐ flat roof

☐ Wood shingle

☐ Corrugated metal

☐ Concrete tile

☐ Standing seam

☐ Metal

☐ Roof Condition

Condition of the roof at time of assessment

☐ New

☒ Good

☐ Poor

☐ Needs Replacement

☐ Roof Pictures/Drone pictures

Make sure to capture the state of the shingles up close

○ **Leyers of shingles**

How many layers of shingles on the roof

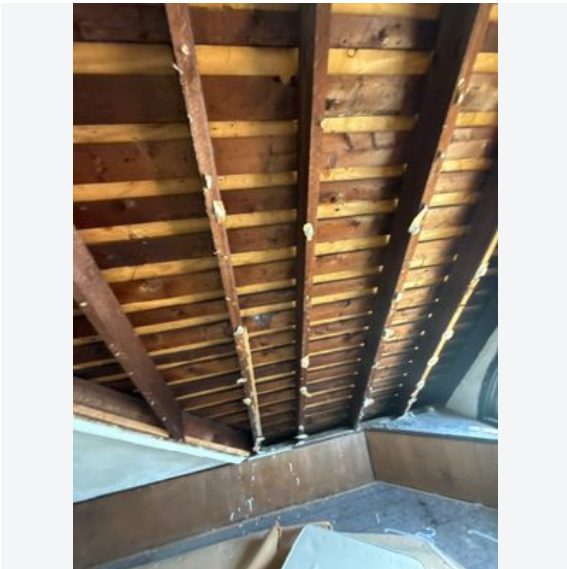
☐ 1

☐ 2

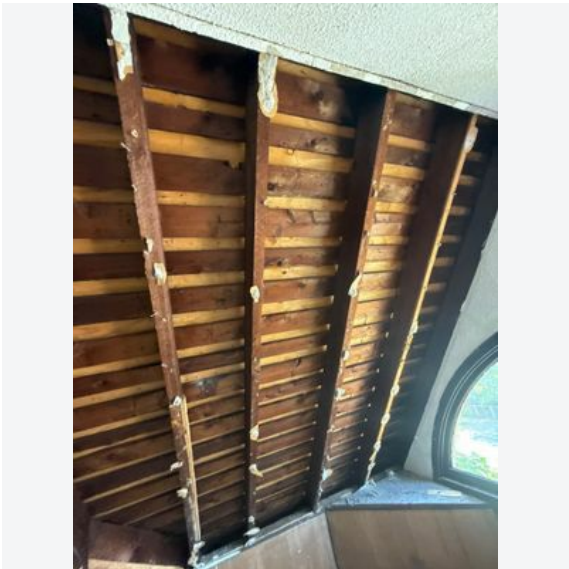
☐ 3

○ **Sheathing Information and pictures**

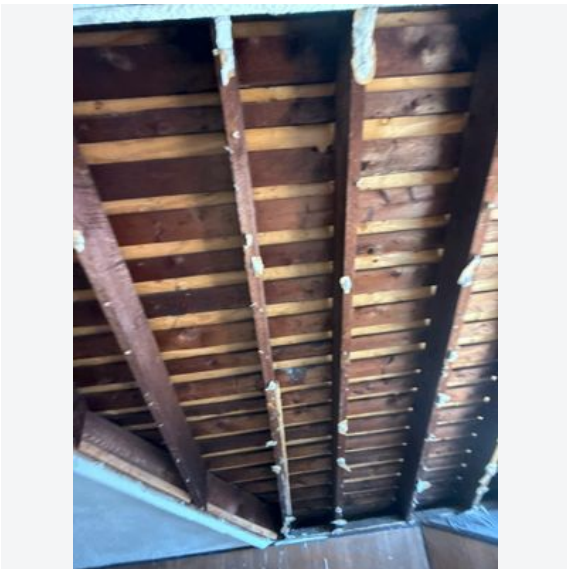
Take pictures and note potential issues with the sheathing aspect of the roof in the attic



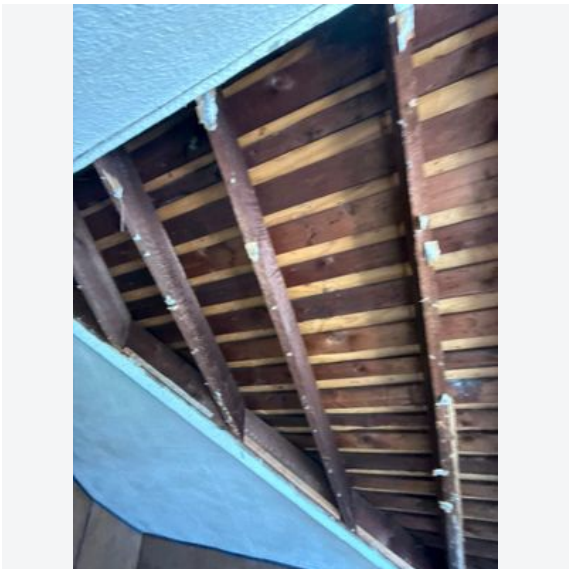
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📅 08/07/2025, 12:14pm EDT



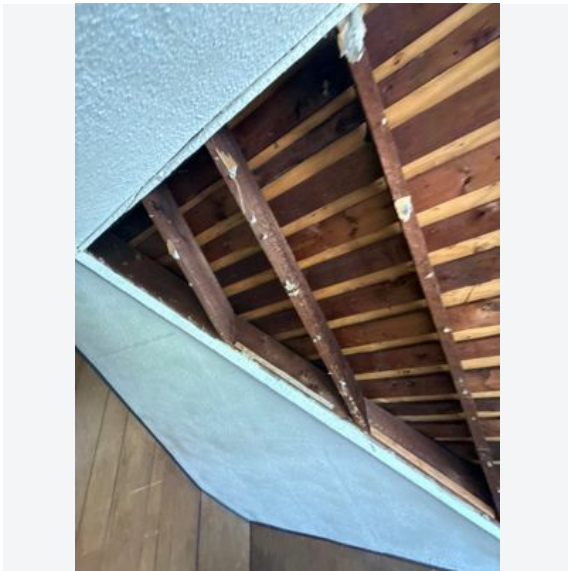
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📅 08/07/2025, 12:14pm EDT



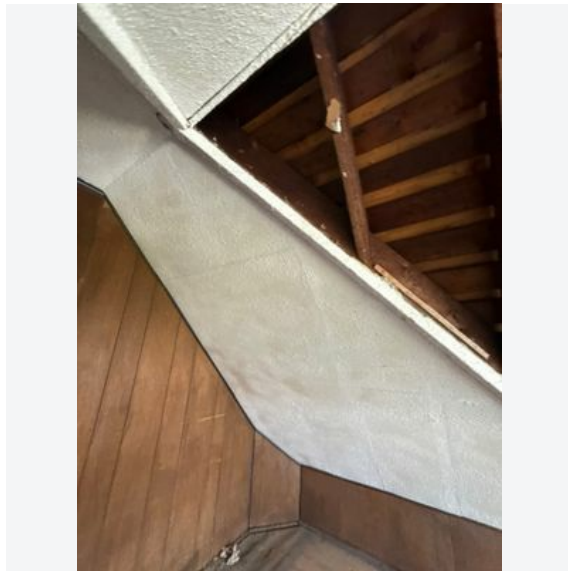
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📅 08/07/2025, 12:14pm EDT



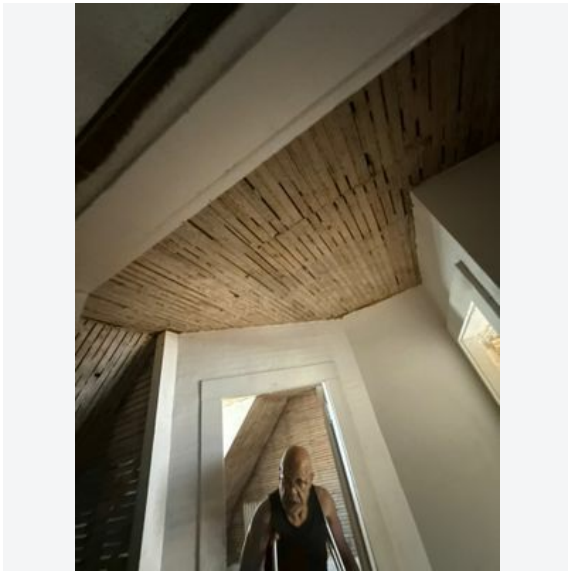
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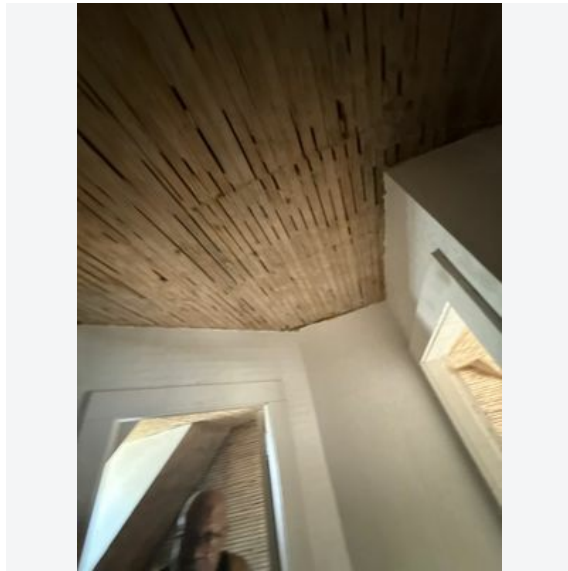
 Nicholas Pereira
 08/07/2025, 12:14pm EDT



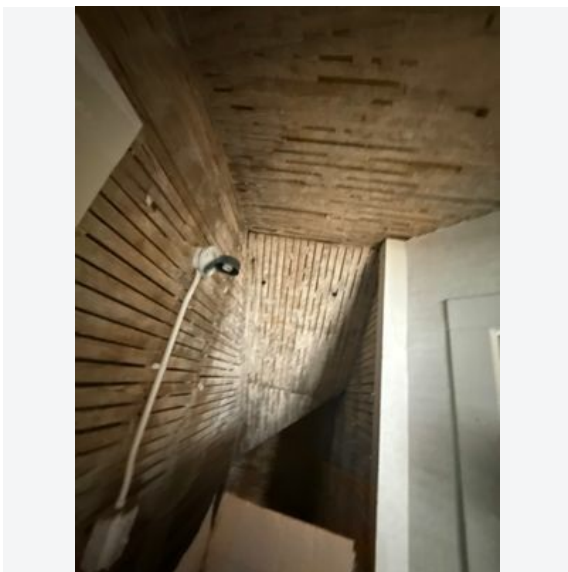
 Nicholas Pereira
 08/07/2025, 12:14pm EDT



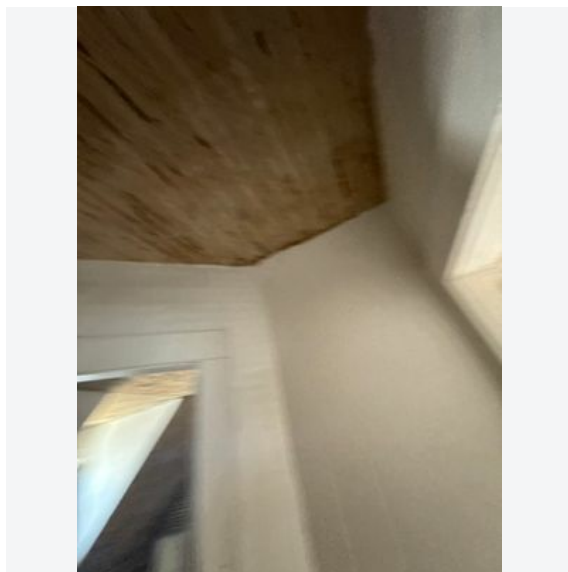
 Nicholas Pereira
 08/07/2025, 12:14pm EDT



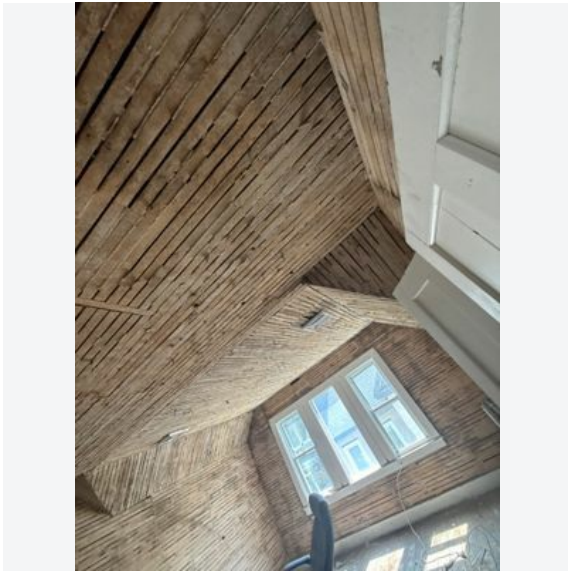
 Nicholas Pereira
 08/07/2025, 12:14pm EDT



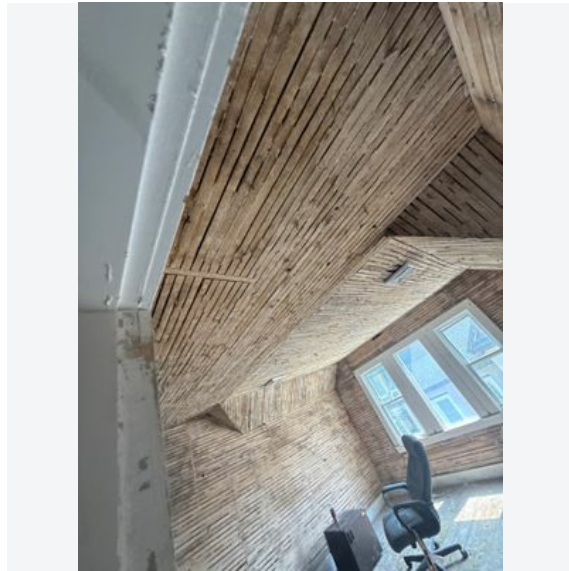
 Nicholas Pereira
 08/07/2025, 12:14pm EDT



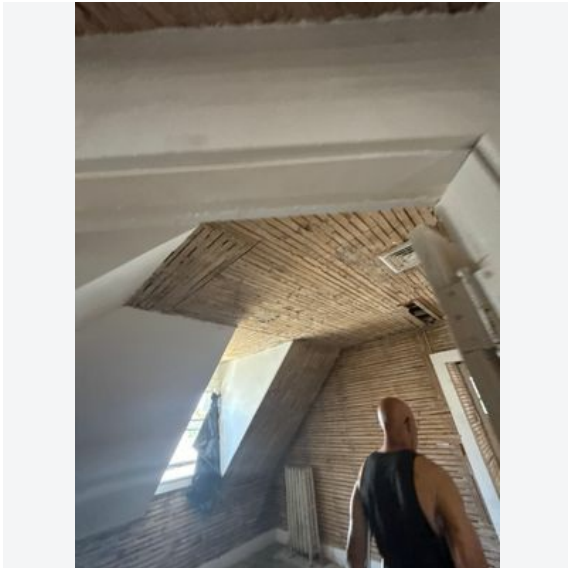
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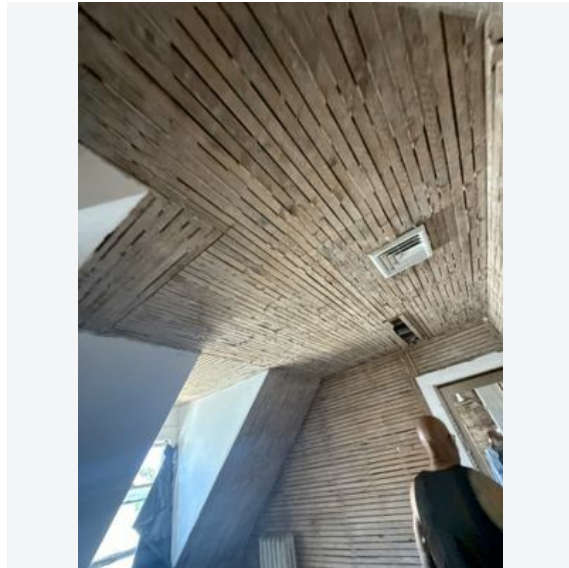
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📅 08/07/2025, 12:14pm EDT



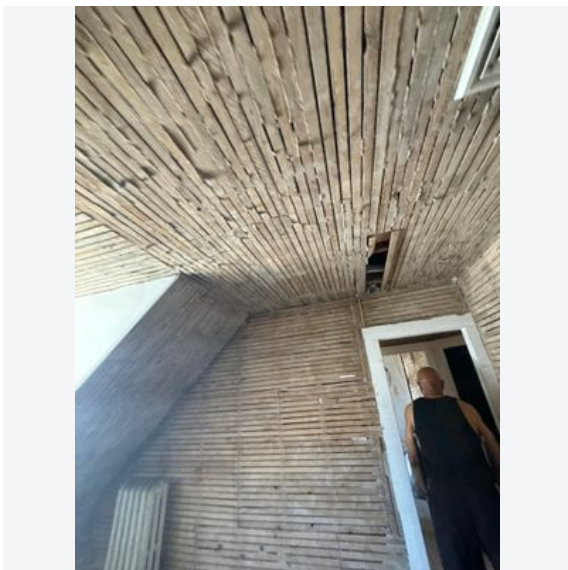
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📅 08/07/2025, 12:14pm EDT



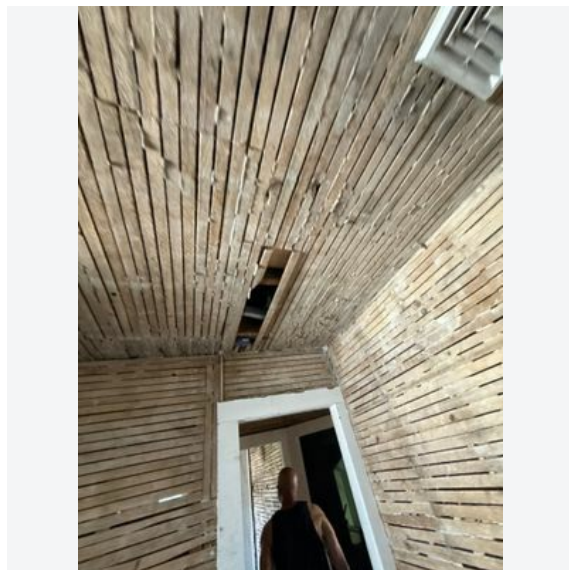
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📅 08/07/2025, 12:14pm EDT



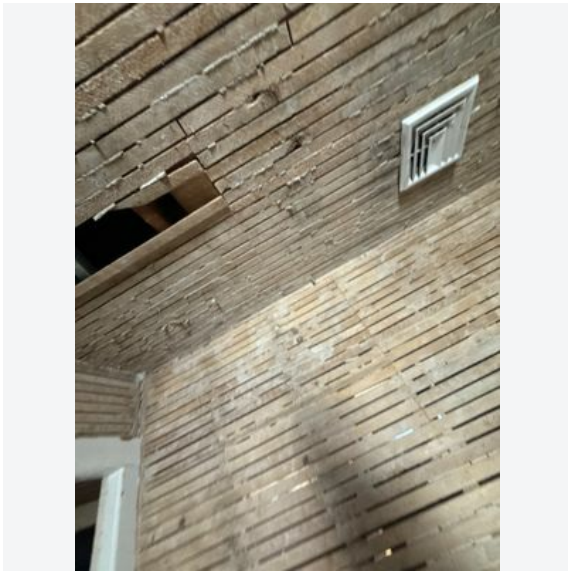
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📅 08/07/2025, 12:14pm EDT



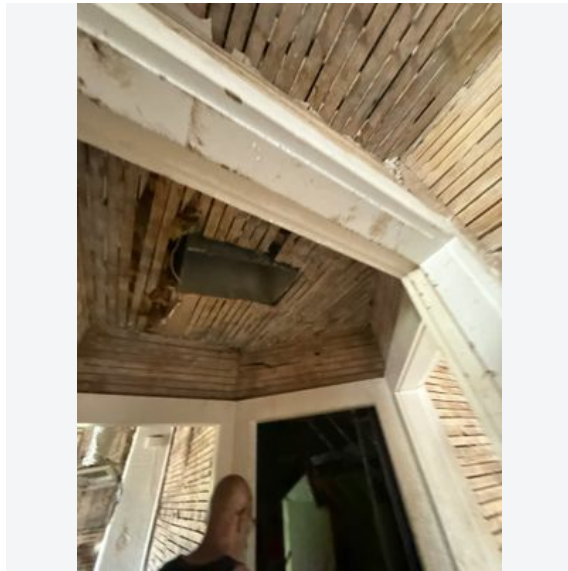
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📅 08/07/2025, 12:15pm EDT



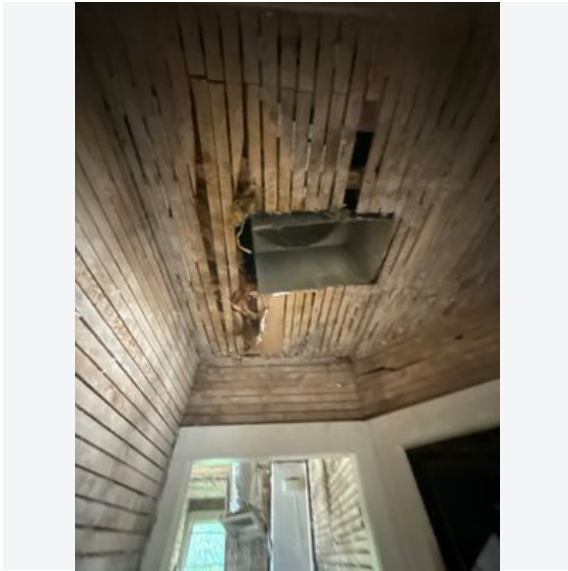
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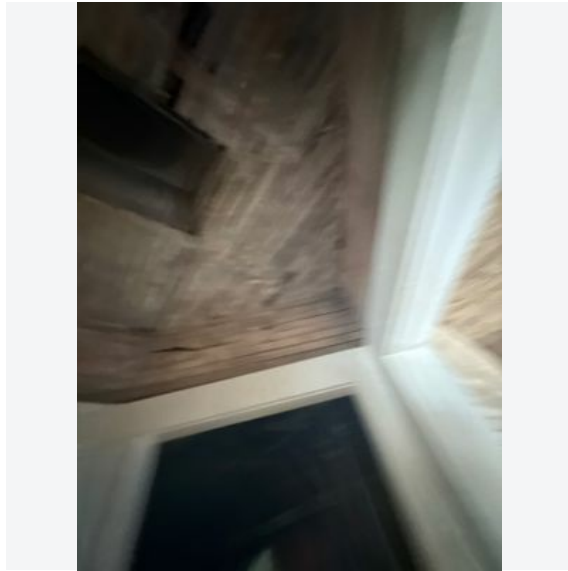
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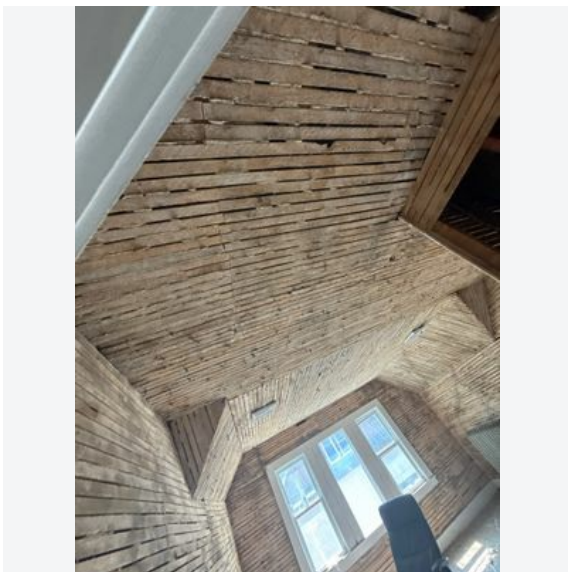
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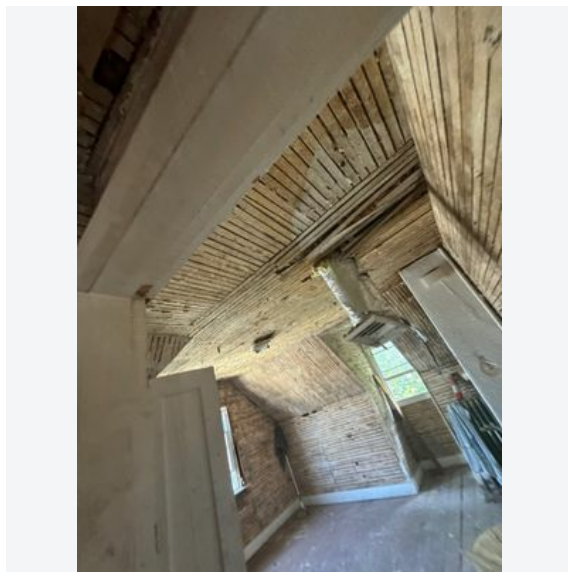
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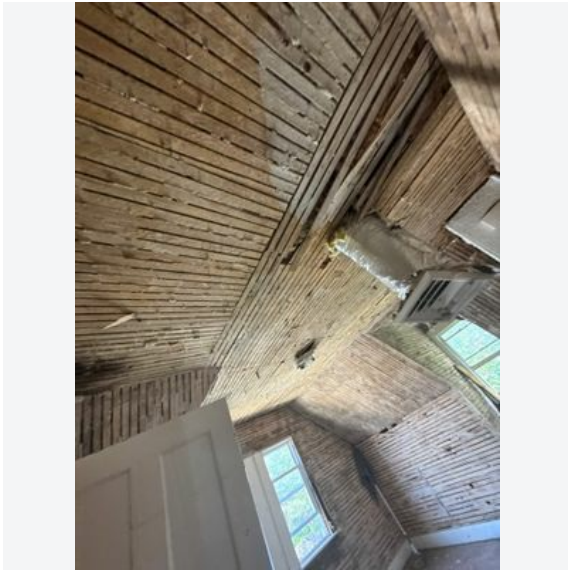
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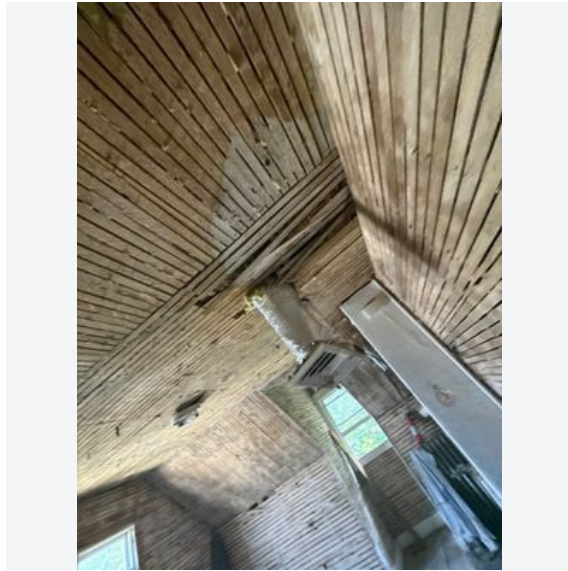
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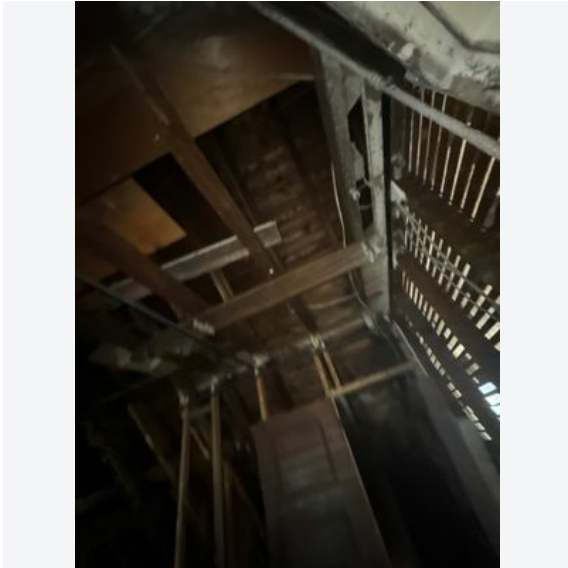
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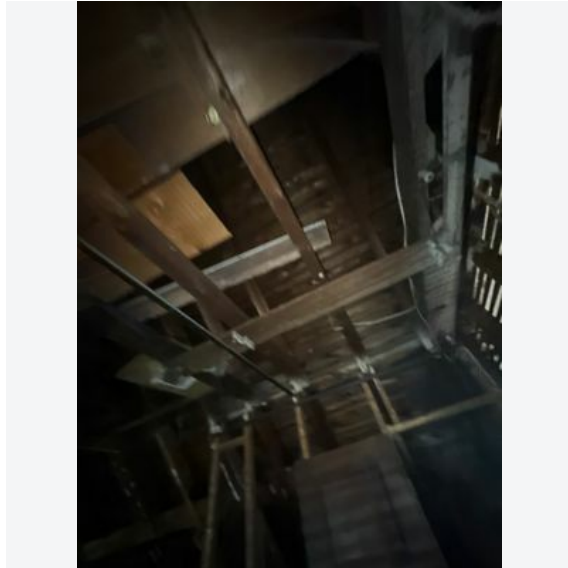
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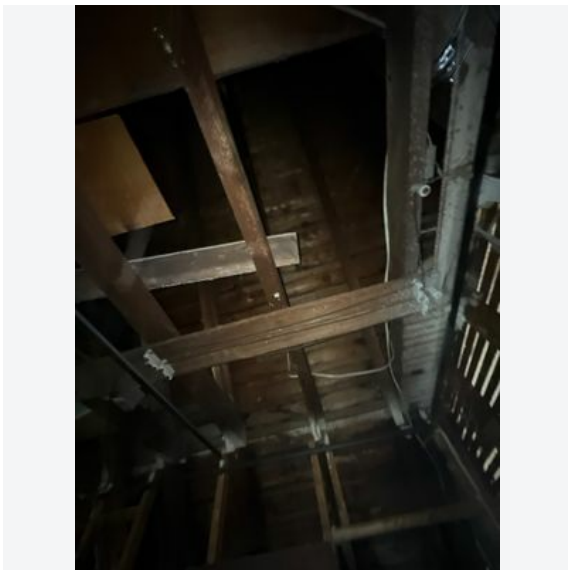
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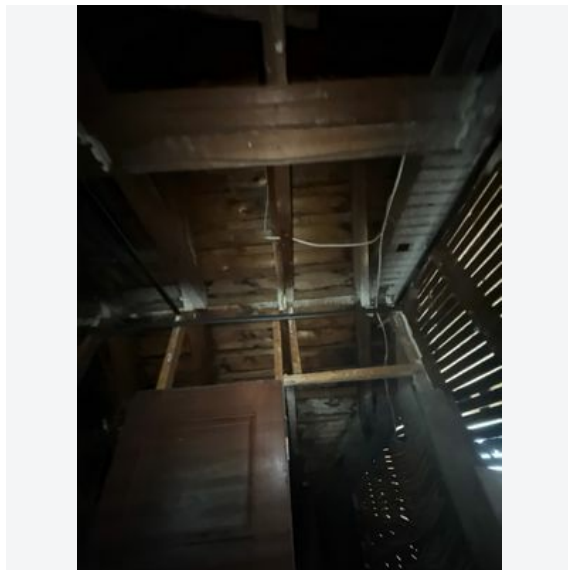
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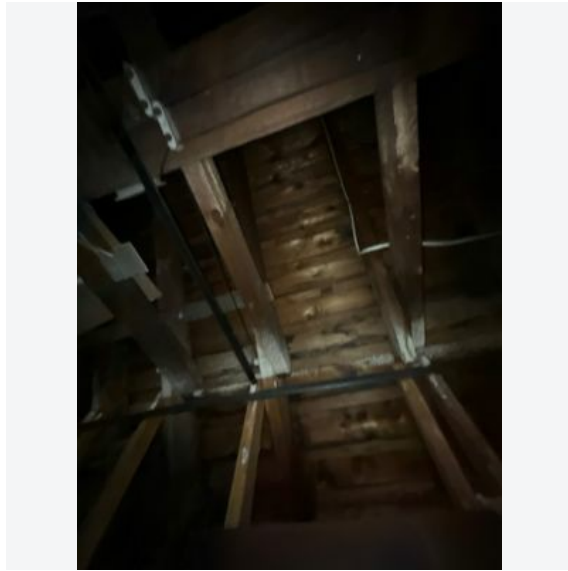
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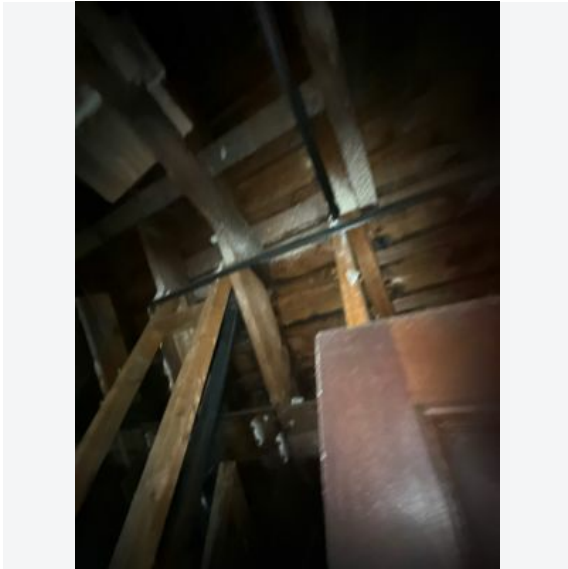
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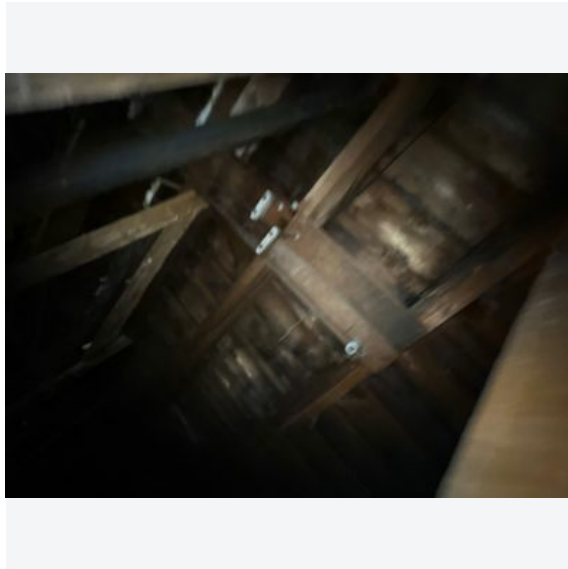
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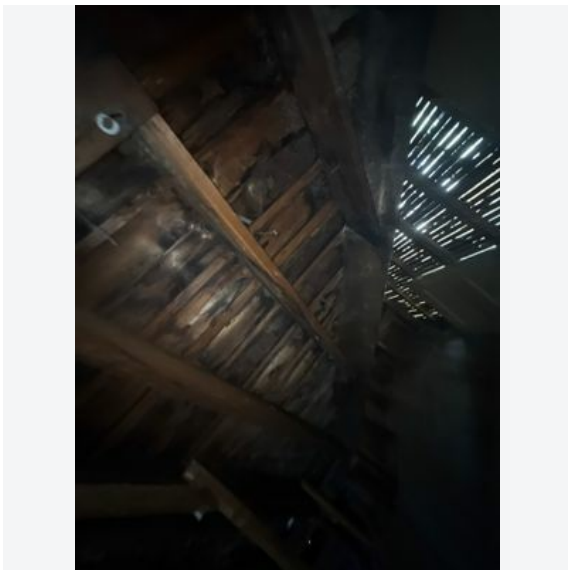
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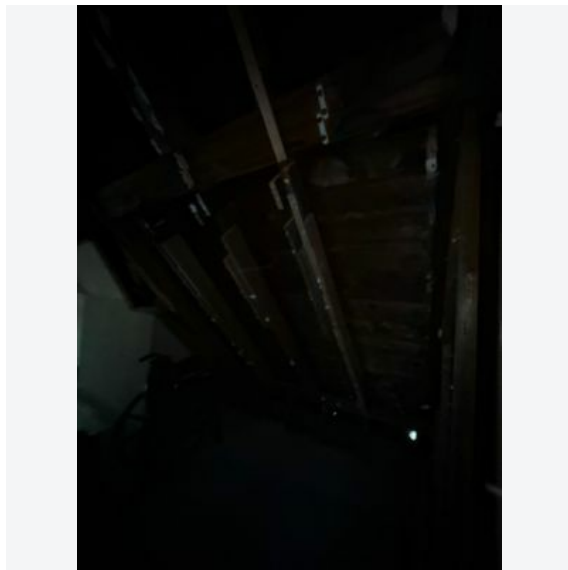
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 Nicholas Pereira
 08/07/2025, 12:15pm EDT



 Nicholas Pereira
 08/07/2025, 12:15pm EDT



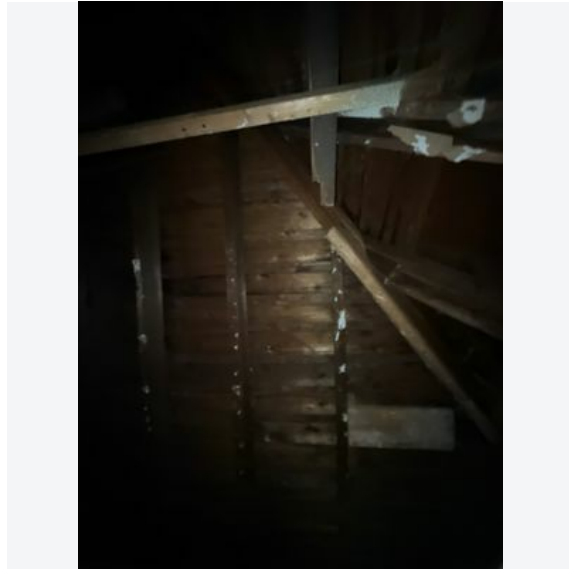
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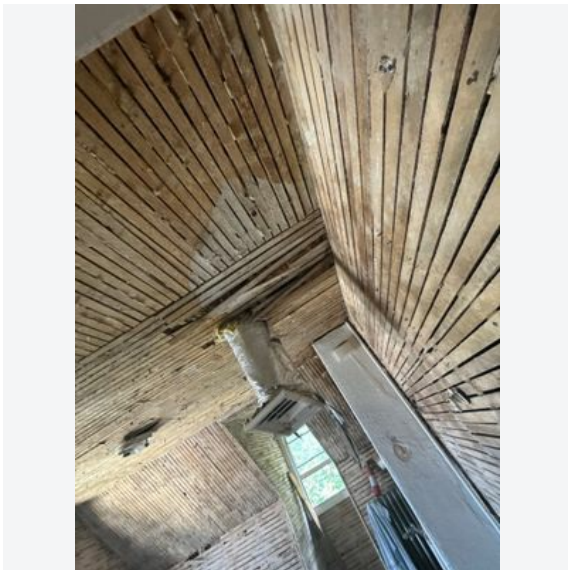
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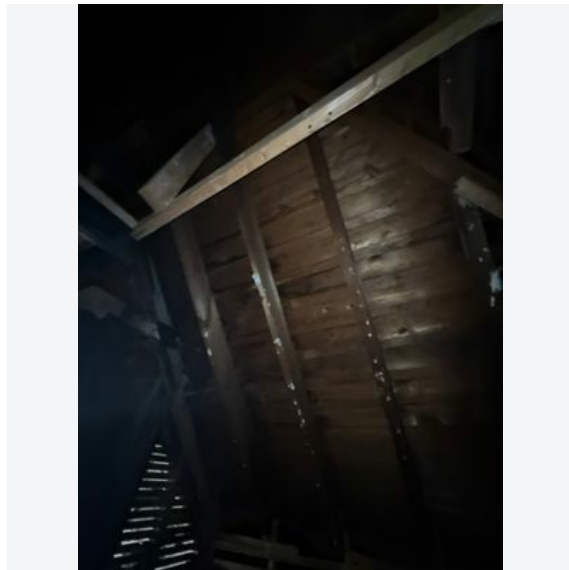
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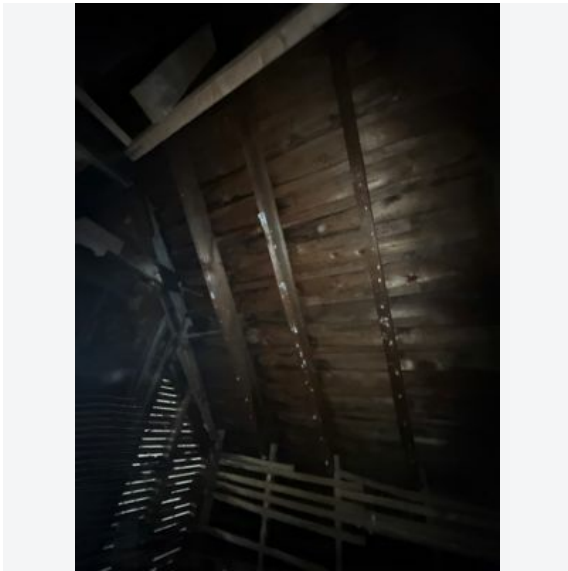
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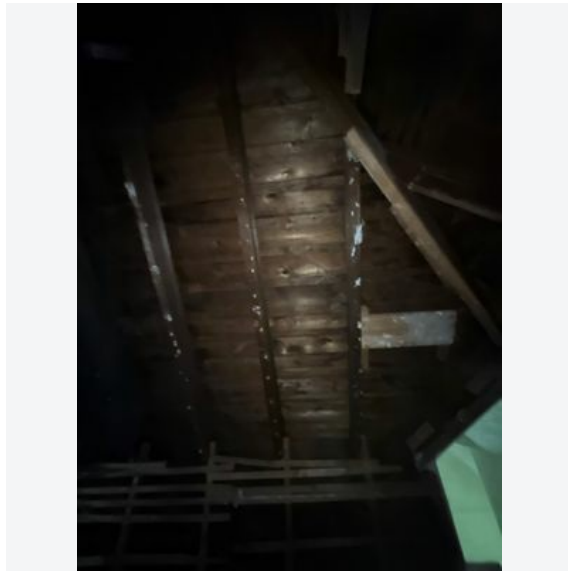
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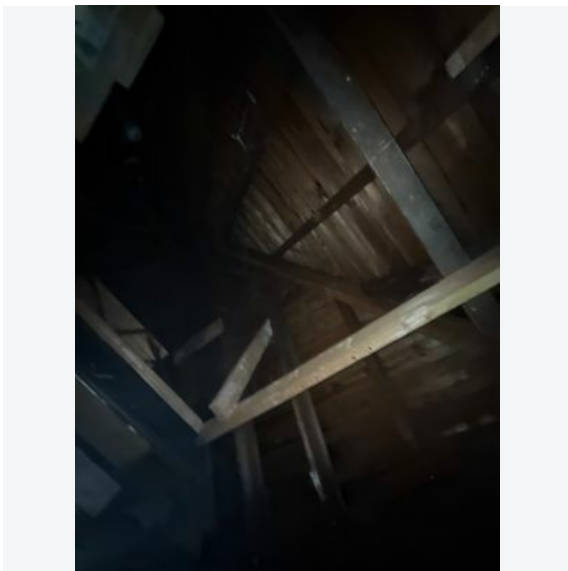
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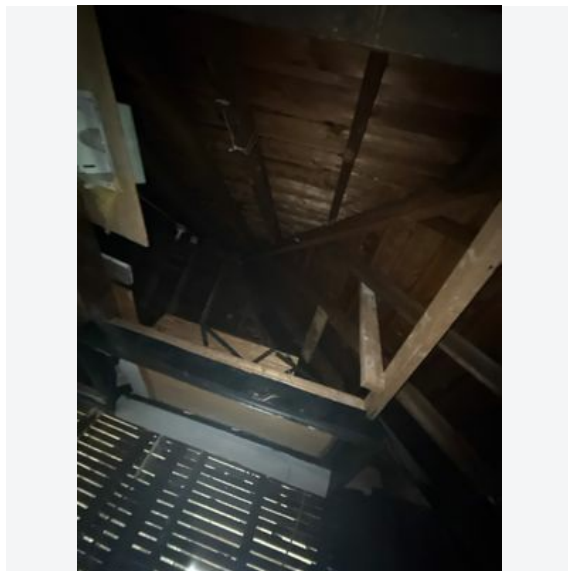
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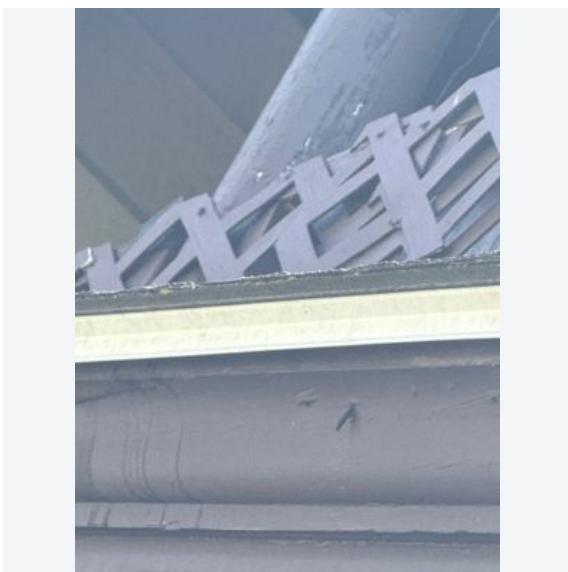
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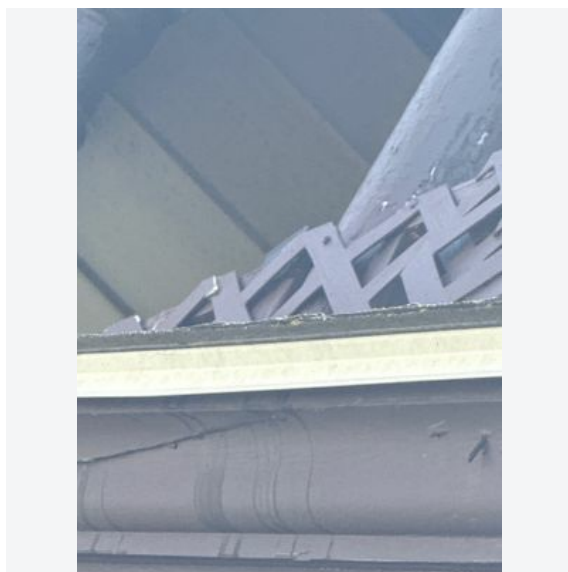
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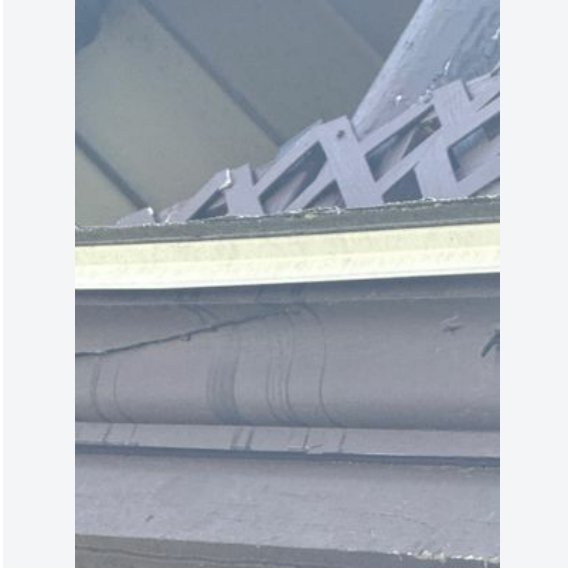
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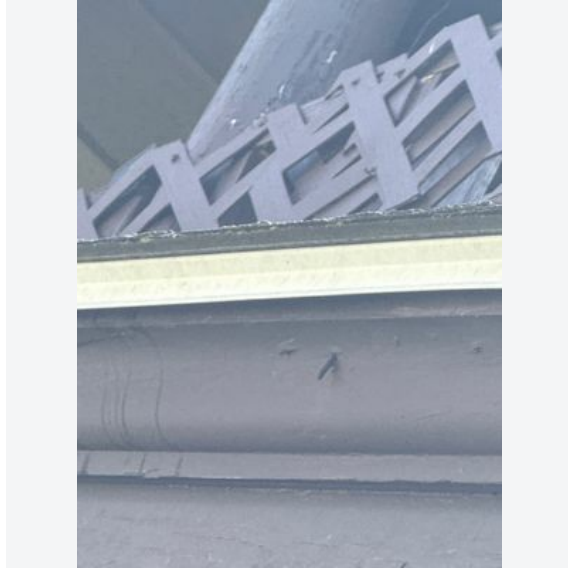
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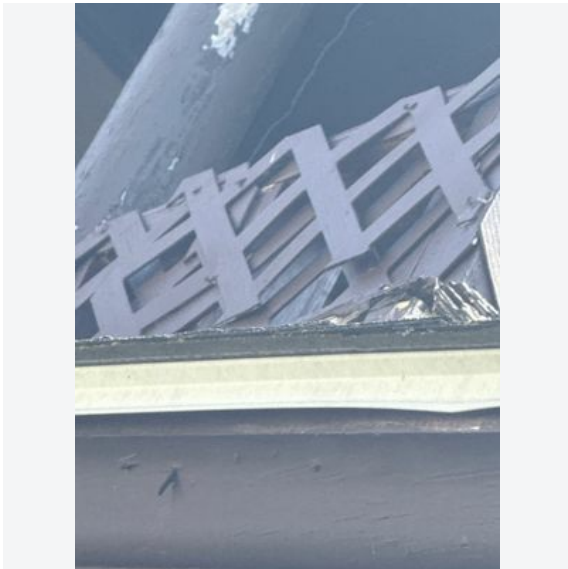
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 Nicholas Pereira
 08/07/2025, 12:18pm EDT



 Nicholas Pereira
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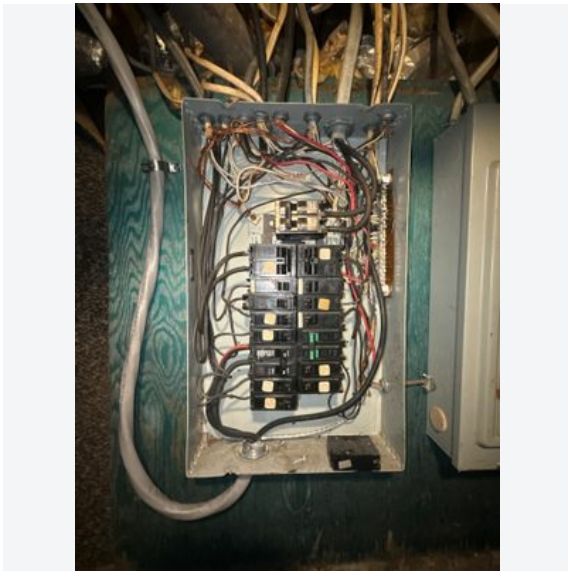


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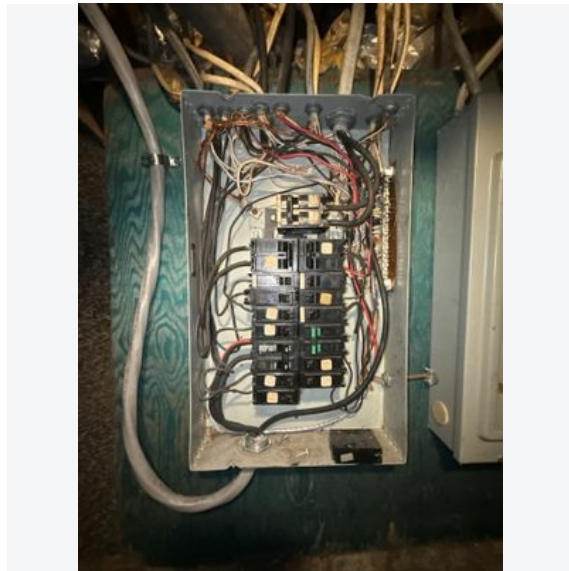
Electric Information

☐ Main Service Panel Location

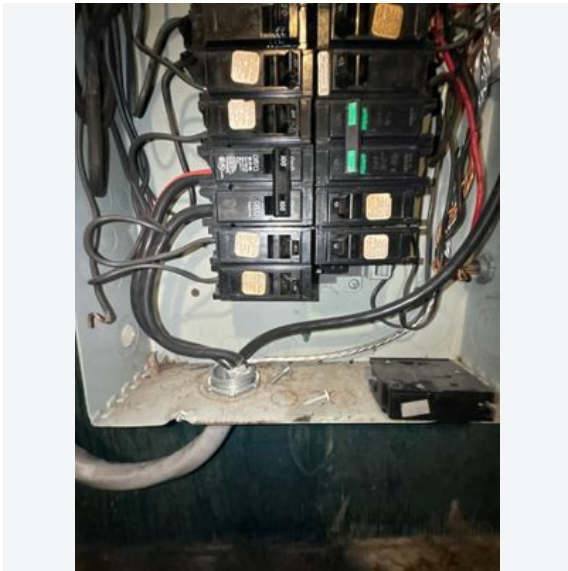
Surrounding pictures to show location of the panel



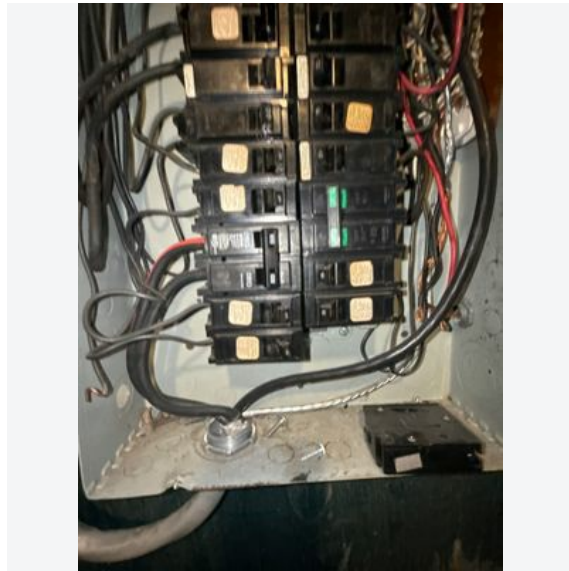
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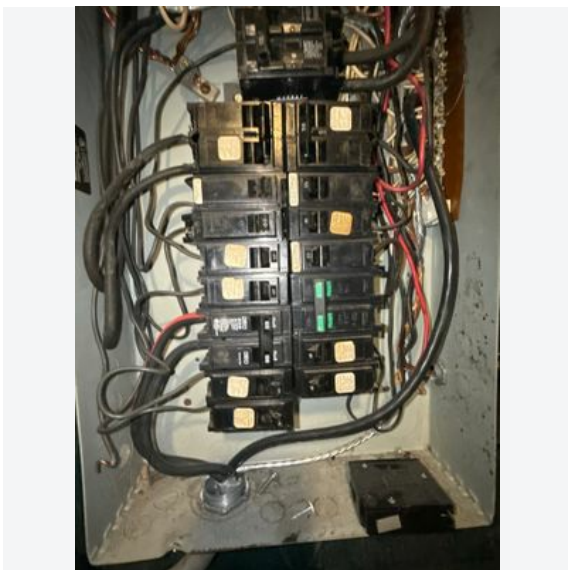
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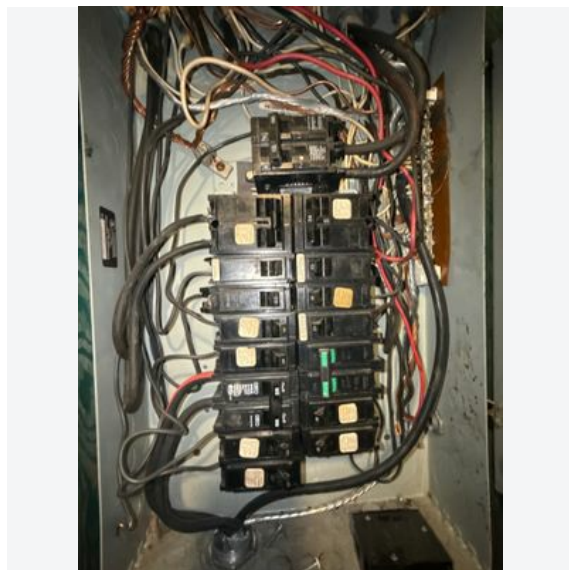
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📅 08/07/2025, 12:06pm EDT



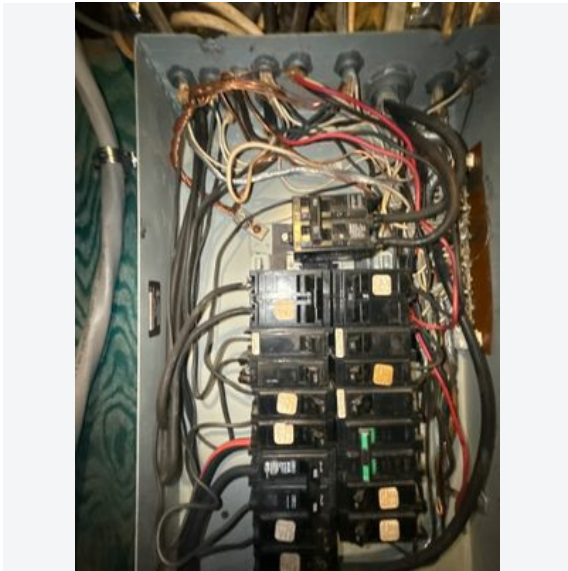
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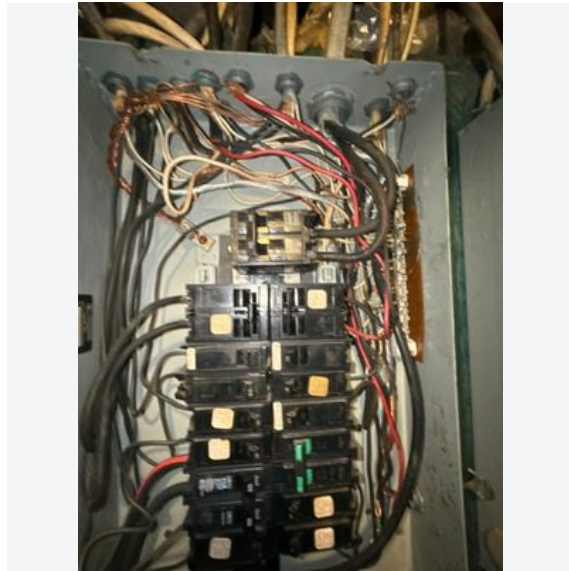
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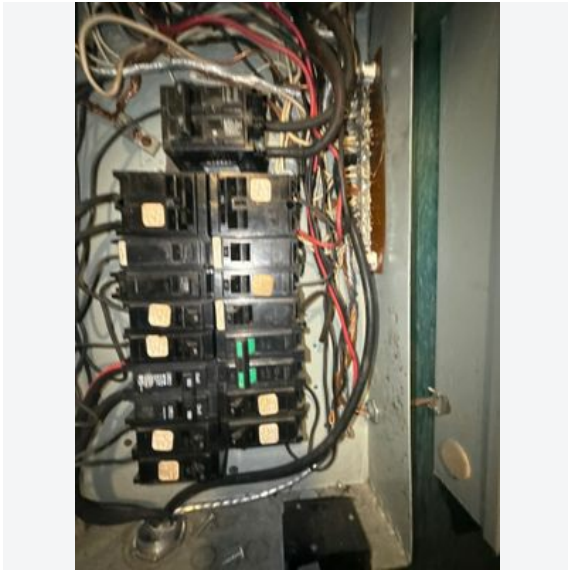
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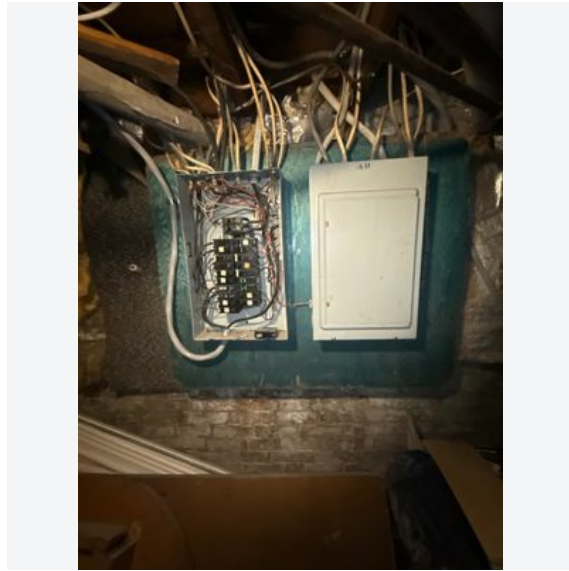
 Nicholas Pereira
 08/07/2025, 12:06pm EDT



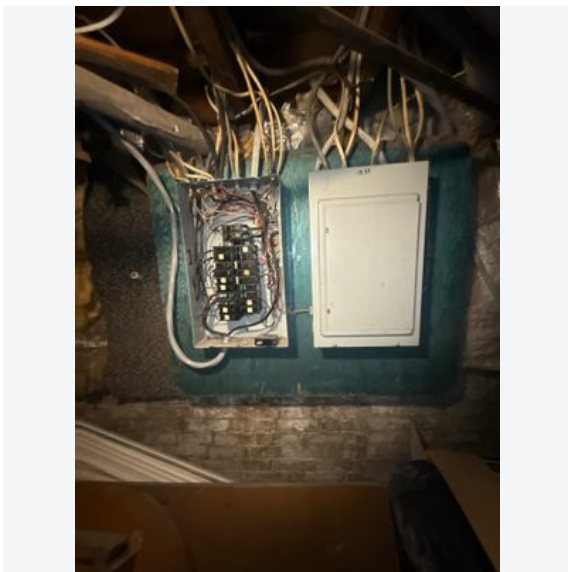
 Nicholas Pereira
 08/07/2025, 12:06pm EDT



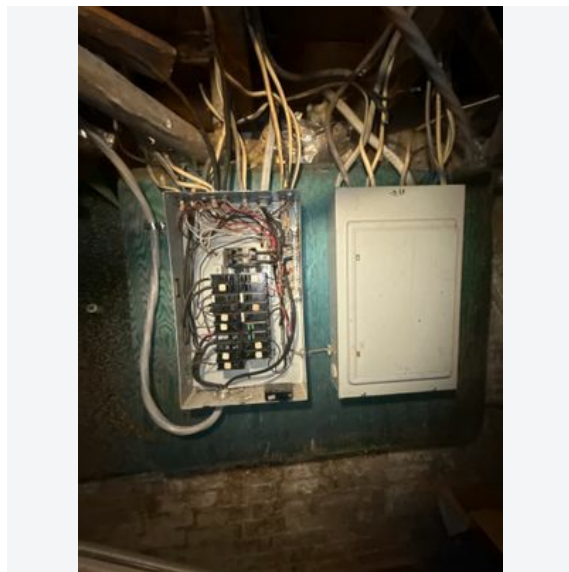
 Nicholas Pereira
 08/07/2025, 12:06pm EDT



 Nicholas Pereira
 08/07/2025, 12:08pm EDT



 Nicholas Pereira
 08/07/2025, 12:08pm EDT



 Nicholas Pereira
 08/07/2025, 12:08pm EDT

☐ **Main Service Panel with Cover removed**

☐ **Subpanel**

Is there a subpanel

Yes

No

N/A

☐ **Subpanel location and pictures**

Take pictures of the subpanel with the lid off and the surrounding area

☐ **Electrical Notes**

Describe any additional comments about the electrical system

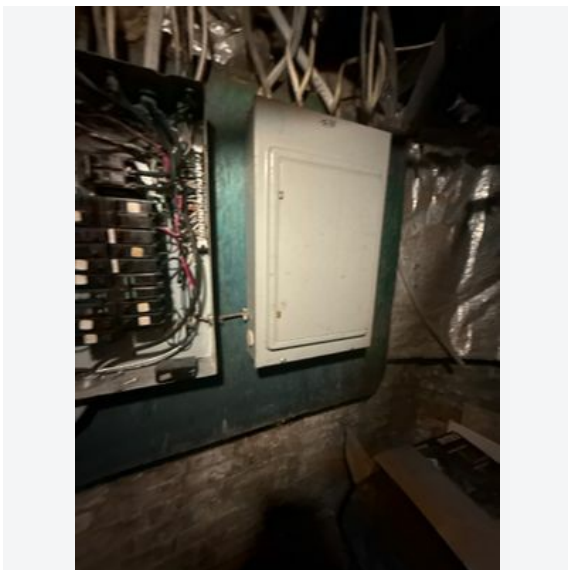
Additional Information

☐ **360° Video**

Take a surrounding video of the house

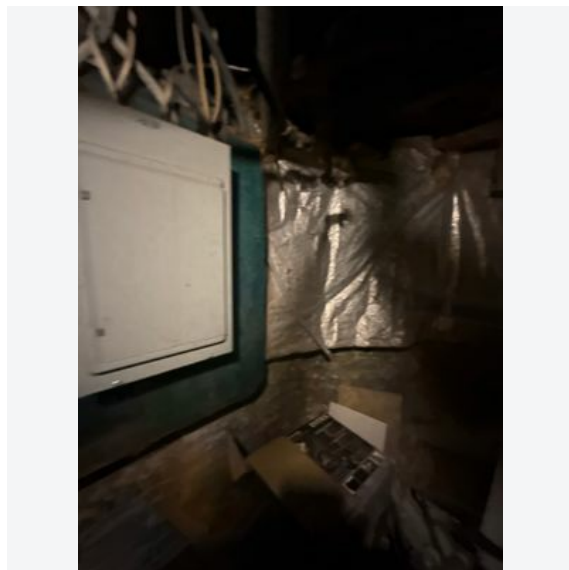
☐ **360° Video Basement**

Take a surrounding video of the Basement



 Nicholas Pereira

 08/07/2025, 12:08pm EDT



 Nicholas Pereira

 08/07/2025, 12:08pm EDT



📷 Nicholas Pereira
📅 08/07/2025, 12:08pm EDT



📷 Nicholas Pereira
📅 08/07/2025, 12:08pm EDT



📷 Nicholas Pereira
📅 08/07/2025, 12:08pm EDT



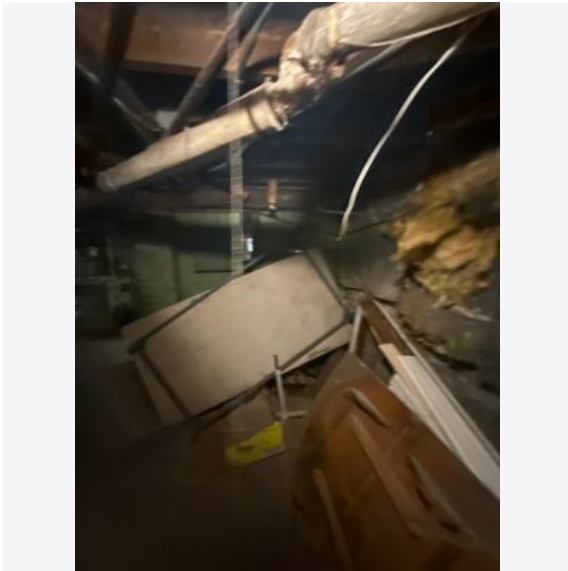
📷 Nicholas Pereira
📅 08/07/2025, 12:08pm EDT



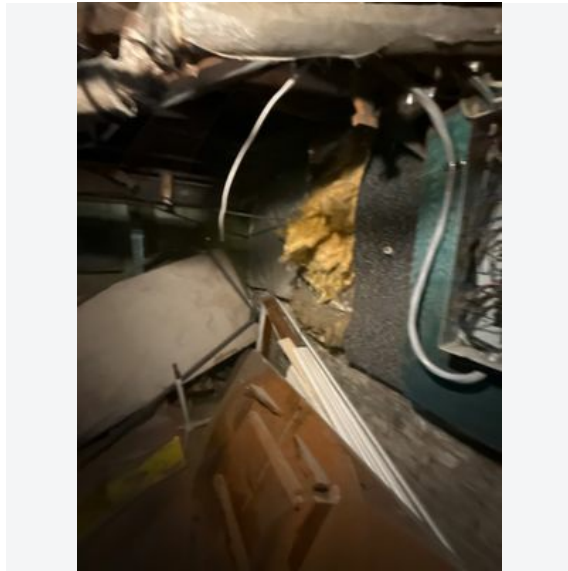
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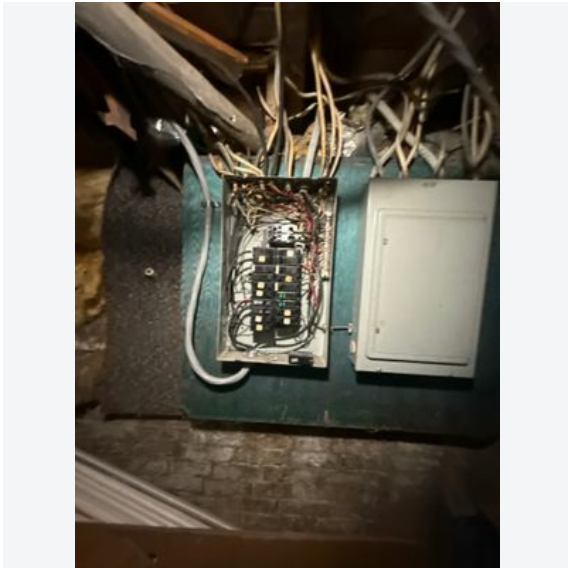
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📅 08/07/2025, 12:08pm EDT



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 08/07/2025, 12:08pm EDT



 Nicholas Pereira
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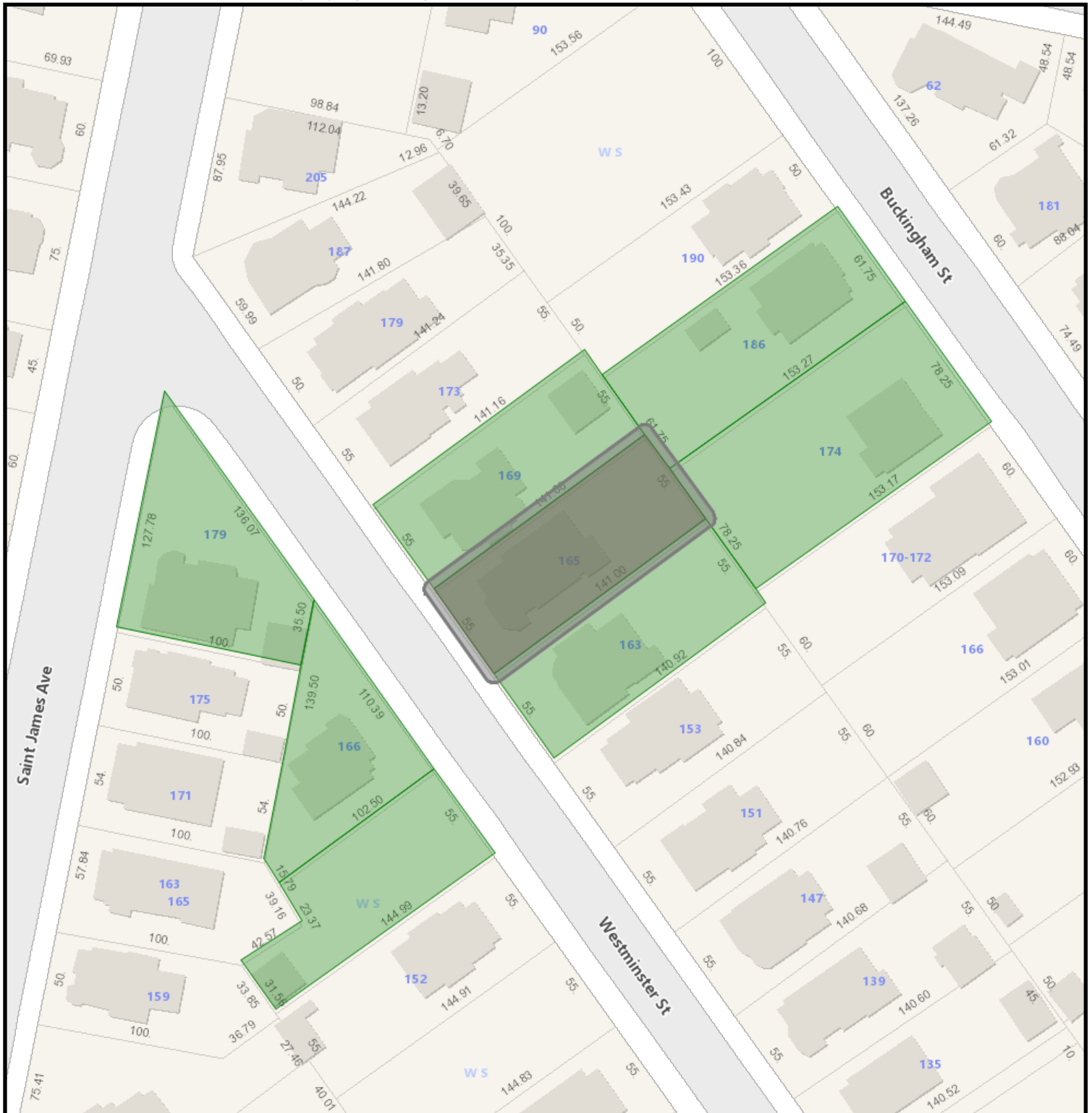


 Nicholas Pereira
 08/07/2025, 12:08pm EDT

☐ Final Comment

Any additional comment about the survey

Had no cover on panel



165 Westminster Street GIS

11/17/2025 3:40:45 PM

Scale: 1"=75'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

122010044
CRUZ ANGEL
163 WESTMINSTER ST
SPRINGFIELD, MA 01109

122010032
DOWELL WILLIAM A JR
515 GROVE ST
WORCESTER, MA 01602

122010035
MCDOWELL LATTOY F & ALI
166 WESTMINSTER ST
SPRINGFIELD, MA 01109

122010042
MYRICK TATIANA L
169 WESTMINSTER ST
SPRINGFIELD, MA 01109

111700383
RAMIREZ-FERRER LARRY G &
179 ST. JAMES
SPRINGFIELD, MA 01109

122010043
ROBINSON FRANK P III +
10 PONDVIEW DR
SPRINGFIELD, MA 01118

020420036
SANTIAGO GISSEL &
186 BUCKINGHAM ST
SPRINGFIELD, MA 01109

020420035
STRATTON ELLIOTT C AND
174 BUCKINGHAM ST
SPRINGFIELD, MA 01109



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 17 Oxford St

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST

☐

APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**

☐

PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.

☐

RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.

☐

PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*

☐

LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <i>Forest Park Heights</i>	DECISION:
DATE RECEIVED: <i>November 13, 2025</i>	DECISION DATE:
HEARING DATE: <i>December 4, 2025</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>November 20, 2025</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>November 20, 2025</i>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 17 Oxford St

APPLICATION TYPE Certificate of Appropriateness



CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.



CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.



CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).



ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.



PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.



PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.



MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).



SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00).



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 17 Oxford St		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: Patrick Markey		
OWNER ADDRESS: 17 Oxford St Springfield MA 01108 ☐ Check box if same as property address		
OWNER PHONE NUMBER: (413) 222-4037	REPRESENTATIVE/CONTRACTOR NAME: Window World of Western Mass	
OWNER EMAIL ADDRESS: pmarkey@markeybarrett.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: (413) 485-7335	
PROPERTY CODE: 09415-0028	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: permits@windowworld.com	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): basement windows replacement		PROPOSED MODIFICATIONS (Please check all that apply) ☒ Windows (see Page 3) ☐ Doors (see Page 4) ☐ Siding (see Page 5) ☐ Roofing (see Page 6) ☐ Solar (see Page 6) ☐ Signs (see Page 7) ☐ Heat Pumps (see page 7) ☐ Paint (see Page 8) ☐ Renovations (e.g. Porches) (see Page 8) ☐ New Construction (all of the above) ☐ Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

☐ Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

DocuSigned by:

Patrick Markey

FB83D02C2411458...

PROPERTY OWNER'S SIGNATURE

11/12/2025

DATE

WINDOWS

☒ Check box indicating that you are submitting an order sheet with renderings/brochure of the proposed windows.

☒ Check box indicating that you are submitting photographs of the existing windows.

☐ Check box indicating that you are aware of the City's Window Guidelines (click [here](#)).

Will the Dimensions of the Windows Change: ☐ Yes (Please Provide Details Below Under Additional Information) ☒ No

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE CURRENT WINDOWS:

see pictures

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE WINDOWS:

rotted-see pictures

NUMBER OF WINDOWS TO BE REPLACED/ADDED:

8

NEW WINDOW MANUFACTURER:

Window World

MODEL NUMBER(S):

4000/vinyl slider

	EXISTING	PROPOSED
MATERIAL (e.g. wood, vinyl, aluminum, etc):	wood	vinyl
EXTERNAL COLOR(S) (e.g. black, white, etc):	white	white
GRID PLACEMENT (Interior or Exterior):	exterior	none
GRID PATTERN (e.g. two-over-two; six-over-one, etc):	exterior	none
WINDOW STYLE(S) (e.g. double-hung, etc):	hopper	slider-2 panel
GLASS TYPE(S) (e.g. single-pane, double-pane, etc):	single-pane	double-pane

ADDITIONAL INFORMATION:

windows are on the left, right and back of the house - none on the front of the house

From: [Patrick Markey](#)
To: dbak@windowworld.com
Cc: [Strniste, Andrew](#)
Subject: [External] Re: Springfield Historical Commission Meeting | December 4, 2025 (Meeting Notice) 17 Oxford St
Date: Thursday, November 20, 2025 12:15:35 PM
Attachments: [image001.png](#)

You are authorized to appear for me.
Sent from my iPhone

On Nov 20, 2025, at 12:05 PM, dbak@windowworld.com wrote:

We will need your authorization to represent you, Andrew Strniste Director of Community Planning is included in this email. I'm assuming that if you reply to this email with the authorization that will be good. Thank you.

<image001.png>

Dorota Bak

Window World of Western Massachusetts
20 Daniel Shays Highway, Belchertown, MA 01007
975 North Road, Westfield, MA 01085
10 Center St, Adams, MA 01220 (Coming Soon)
DBak@windowworldofwesternmass.com
Office #: 413-485-7335 ext. 114

From: Patrick Markey <pmarkey@markeybarrett.com>
Sent: Thursday, November 20, 2025 11:34 AM
To: dbak@windowworld.com
Cc: AStrniste@springfieldcityhall.com
Subject: Re: Springfield Historical Commission Meeting | December 4, 2025 (Meeting Notice) 17 Oxford St

I am not planning to attend. Can you send someone?
Sent from my iPhone

On Nov 20, 2025, at 11:05 AM, dbak@windowworld.com wrote:

Hello Mr Markey – can you please confirm if you will be attending the meeting.
Thank you.

<image002.png>

Dorota Bak

Window World of Western Massachusetts
20 Daniel Shays Highway, Belchertown, MA 01007
975 North Road, Westfield, MA 01085
10 Center St, Adams, MA 01220 (Coming Soon)
DBak@windowworldofwesternmass.com
Office #: 413-485-7335 ext. 114

From: Strniste, Andrew <AStrniste@springfieldcityhall.com>

Sent: Thursday, November 20, 2025 10:39 AM

To: Undisclosed recipients:

Subject: Springfield Historical Commission Meeting | December 4, 2025
(Meeting Notice)

Good morning,

Please find the Historical Commission's upcoming meeting **NOTICE** attached to this email. The ***HISTORICAL COMMISSION*** will be meeting on:

Thursday, December 4, 2025 at 5:30 PM in the ***Congressman Richard E. Neal Municipal Operations Center, Video Conference Room*** located at ***70 Tapley Street*** (In-Person)

Should you have any questions, please do not hesitate to reach out.

*****PLEASE NOTE** – if you as the property owner will be unable to attend the hearing, or will not be present during the hearing, please forward me an email containing a letter of authorization for whomever may petition on your behalf; otherwise, your petition will not be heard during the meeting.***

Thank you and kind regards,

Andrew Strniste

*Director of Community Planning
Office of Planning & Economic Development
City of Springfield
70 Tapley Street
Springfield, MA 01104
(413) 787-6525*
<image001.png>

<December_04_2025_Meeting(Applicant_Notice).pdf>

<December_04_2025_Meeting(Notice).pdf>

CAUTION: This email originated outside our organization; please use caution.



Window World of Western Massachusetts
20 Daniel Shays, Hwy, Belchertown, MA 01007
975 North Road, Westfield, MA 01085
Office: (413) 485-7335
www.WindowWorldofWesternMA.com



Patrick Markey

Phone: 4132224037

Install Address: 17 Oxford St

Email: pmarkey@markeybarrett.com

Springfield, MA 01108

Contract Name: Patrick Markey - Sales - Windows

Design Consultant: Alan Vieu

Measured By:

☐ Measure Approved

Date: 10/31/2025

Status: Contract

Payment Method:

Lender:

Contract Type: Sales

Comments:

Product	Description	Txbl	Qty	Price	Extension
Permit & Administrative Fee	Permit & Administrative Fee	N	1	\$300.00	\$300.00
Setup and landfill disposal fee	Setup and landfill disposal fee	N	1	\$275.00	\$275.00
Basement Slider - 2 panel (Min 14")	Basement Slider - 2 panel	N	8	\$629.00	\$5,032.00
Full Exterior Capping	Full Exterior Capping (additional \$15 per wrap for any color aside from white) -- Color: White	N	9	\$199.00	\$1,791.00
Dryer Vent Wall	Dryer Vent Wall	N	1	\$225.00	\$225.00
Entry Door, Casing + Capping	Entry Door, Casing + Capping: Fiber Classic oak - full lite - 10 block SDL - pre finished interior/exterior TBA - Clear glass - Multipoint handset (style and finish TBA) Custom size Cut down	N	1	\$5,962.00	\$5,962.00

Total Information

Unit Total:	20
Subtotal:	\$13,585.00
Tax Rate:	0%
Tax:	\$0.00
Total:	\$13,585.00
Amount Financed:	\$0.00
Payment Method:	
Deposit Amount:	\$0.00
Balance Paid to Installer upon Completion:	\$13,585.00

Renovation, Repair and Paint Act (RRP) Compliance

RRP Pamphlet Provided Date:

Year Home Built:

RRP Signed Date:



Window World of Western Massachusetts
20 Daniel Shays, Hwy, Belchertown, MA 01007
975 North Road, Westfield, MA 01085
Office: (413) 485-7335
www.WindowWorldofWesternMA.com



Product Acknowledgements

☒ I have received a copy of the lead hazard information pamphlet informing me of the potential risk of the lead hazard exposure from renovation activity to be performed in my dwelling unit. I received this pamphlet before work began.

Primary Homeowner

Secondary Homeowner



Window World of Western Massachusetts
20 Daniel Shays, Hwy, Belchertown, MA 01007
975 North Road, Westfield, MA 01085
Office: (413) 485-7335
www.WindowWorldofWesternMA.com



Preparing for Your New Windows and Doors

Thank you for choosing Window World to complete your home improvement project. This letter is designed to simplify your upcoming installation experience by letting you know what to expect.

1. HOW LONG DOES IT TAKE? It takes approximately 4-20 weeks to receive your custom-made window order from the factory following your final measurement and your job exiting the Massachusetts State three day rescission period. A Window World associate will contact you shortly after your products have arrived to schedule the installation. Please note that we will make every effort to install your products within a reasonable time after they have arrived, but weather (rain, snow, high winds and extreme cold), high volume sales periods or other conditions (factory production delays, factory closure for holidays, shipping delays, etc.) beyond our control may govern the installation date. Homeowner understands and agrees that any such delays will not result in a discount from their contract total.

2. HOMEOWNER REQUIREMENTS: I understand that by signing this, I am certifying that I am the owner of the property listed on the contract. I agree that a property owner will be present for the duration of the installation to ensure that the work is performed to my satisfaction and to inspect the work completed. If a property owner is not present, the contractor will be released of liability for any installation issues. This allows us to better satisfy our customers and ensures that the windows or materials are installed in the correct openings. Customer must sign off on completion certificate and leave final payment with installer if he/she wishes to leave the job site prior to completion. Customer understands that by not being present at the time of installation may result in the automatic charging of the final payment to the credit card used for deposit.

3. UNFORESEEN CIRCUMSTANCES: If during the installation process a condition is found that would prohibit properly installing a window (i.e. wood rot, termite or other hidden damages, etc.), the installer will promptly notify the Homeowner as well as the Window World office of the problem. Any additional work that is required to properly complete the job will be discussed with the Homeowner and billed on a time and materials basis. In the event we have received the incorrect or damaged window for your job (due to an incorrect measurement or factory error), Window World will reorder the proper window and will schedule the installation as soon as possible. Window World expects payment on the work completed to date at the time of installation that is not affected by warranty issues.

4. WHAT YOU NEED TO DO PRIOR TO OUR STARTING THE INSTALLATION:

- You will need to remove all curtains, shades, blinds, window air conditioning units etc. from the existing windows.
- We also ask that you remove any pictures mirrors, etc. on nearby walls and tables.
- Move all furniture away from the area around each window leaving approximately 3 ft in front of the window and 1ft on either side of the window to be replaced.
- Secure any pets (and children) for their own safety and for the safety of our installers.

5. ALARM SYSTEMS: It is the responsibility of the Homeowner to inform the alarm company of the upcoming window or door installation and to arrange reconnection after installation is complete.

6. EPA-LEAD SAFE GUIDELINES: Homeowners of homes built before 1978 have received a copy of the lead hazard information pamphlet informing the Homeowner of lead hazard exposure from renovation activity to be performed in their home. The Homeowner understands and agrees to indemnify and hold Contractor, Contractor's representatives, and employees harmless for any lead paint health issues.

7. INSIDE INSTALLATION (Normal): If the windows are to be installed from the inside, the interior stop moldings will be removed from the existing windows and reused after the new windows are installed. Please note that the paint or stain on the trim/moldings may get chipped and would need to be touched up by the homeowner.

8. OUTSIDE INSTALLATION (Special): If the windows are to be installed from the outside, the existing window's wood "stops" will need to be removed. In addition, if there are existing storm windows in place outside of your current windows, these will need to be removed as well. Please note that the area(s) where the wood "stops" and/or storm windows were removed will need to be patched and painted by the Homeowner unless the exterior trim is to be installed by Window World.

9. UPON COMPLETION OF INSTALLATION: After the installation is complete, you will be asked to inspect the entire project with our Installer. An evaluation sheet will be provided for the Homeowner to sign after the final inspection is complete. Please make sure that any corrections have been made before the installer leaves the job site. When the job is complete, we ask that you pay the installer the remaining balance due on your contract.

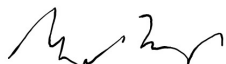
10. METHOD OF PAYMENT: Our installers will accept your final payment in the form of check, money order, Wells Fargo financing, or Visa/MasterCard/Discover Card authorization. As a courtesy and to ensure the safety of our installers; please **DO NOT** pay your final payment In Cash.

11. REFERRALS: Our goal is that you are pleased with the work we have done and will refer us to your friends and neighbors. You will receive a \$50 referral fee for each person you refer who purchases 8 or more windows. Please have your referral mention your name when contacting our office.

We trust that your remodeling experience will be a pleasant one. If for some reason you are not completely satisfied, please contact our office. Your comments are welcomed and will be used to better serve you.

Thank you for your business!

Primary Homeowner



Secondary Homeowner

Design Consultant

EPA "Renovate Right" Brochure can be viewed and printed from here:

Renovate Right Brochure

WW of W. Massachusetts anticipates starting this work on and being substantially completed in days. Any deposit required in advance of the start of the work SHALL NOT exceed 33 1/3% of the total contract price OR the actual cost of any material or equipment of a special order or custom-made nature, which must be ordered in advance of the start of the work to assure that the project will proceed on schedule. No final payment shall be demanded until the contract is completed to the satisfaction of all parties. All home improvement contractors and subcontractors shall be registered. No work shall begin prior to the signing of the contract and transmittal to the owner of a copy of such contract. WW of W. Massachusetts under provision of Chapter 142A of the general laws is required to apply for and obtain all construction-related permits. WW of W. Massachusetts shall not be deemed responsible for delays in the work described in this agreement caused by regulatory, permit granting agencies, authorities, or individuals. Notice: If the PURCHASER(S) obtains his own construction related permits for the work described under this agreement or deals with unregistered contractors, the PURCHASER(S) is hereby advised that in the event of a dispute, judgement and nonpayment, the PURCHASER(S) will not be entitled to make a claim or collection from the guaranty fund established by chapter 142A, M.G.L.

You the buyer may cancel this transaction at any time prior to midnight of the third business day after the date of this transaction. Notice of cancellation must be in writing postmarked no later than midnight of the following third business day.

THIS IS A CUSTOM ORDER NOT FOR RESALE This Window World® Franchise is independently owned and operated by Window World of Western Massachusetts, Inc. under license from Window World, Inc.



Bill Address: _____ E-mail _____

This Window World® Franchise is independently owned and operated by Window World of Western Massachusetts, Inc. under license from Window World, Inc.

Date

Date _____

Extra Work 1-07



Customer Name:

Address:

Phone:

Fax:

Customer Information:

Comments:

Project Name: Markey S309064

Quote Name: Markey S309064

Quote Number: 6052992

Order Date: Quote Not Ordered

PO Number: Markey S309064

RO size for Flange is for standard 1x buck with precast sill. Please contact your supplier for other Flange opening RO's.

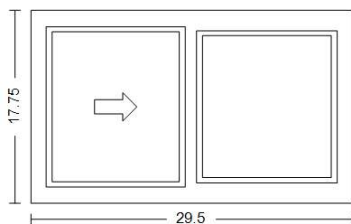
ITEM & SIZES	LOCATION / TAG	PRODUCT DESCRIPTION	UNIT PRICE / EXTENDED PRICE
--------------	----------------	---------------------	-----------------------------

Line Item: 100-1 Base

Quantity: 8

RO Size: 30" X 18.25"

Unit Size: 29.5" X 17.75"



*** PRODUCT ***

Row 1 2 Lite Single Slider - XO - 1 Units - 29.5W x 17.75H

*** DIMENSIONS ***

29.5W x 17.75H

*** FRAME ***

East, Vinyl, Frame Type - Finless, Foam Tape, Exterior Color - White

*** GLASS ***

Glazing Type - Insulated, Dual, Glass Tint - Clear, Low-E, Argon Gas, Glass Strength - DSB

*** SCREEN ***

Screen - Rollform Half, Screen Mesh Type - Clarity

*** WRAPPING ***

Extension Jambs - None

*** NFRC ***

Series SingleSlider, U-Factor::0.28, SHGC::0.29, VT::0.56

*** Performance ***

Series SingleSlider, Calculated Positive DP Rating::25.06,
 Calculated Negative DP Rating::35.09, DP Rule ID::3580 SLIDER2,
 Rating Type::DesignPressure, Performance Grade::R-PG25*, Water
 Rating::3.76, FL ID::13349, STC Rating::27, OITC Data::22

1280 2 Lite Single Slider - XO - No Call Width - No Call Height

Units are viewed from the Exterior

Total Unit Count: 8

Submitted By: _____ Please Print Name

Signature: _____

Date: _____

Accepted By: _____ Please Print Name

Signature: _____

Date: _____















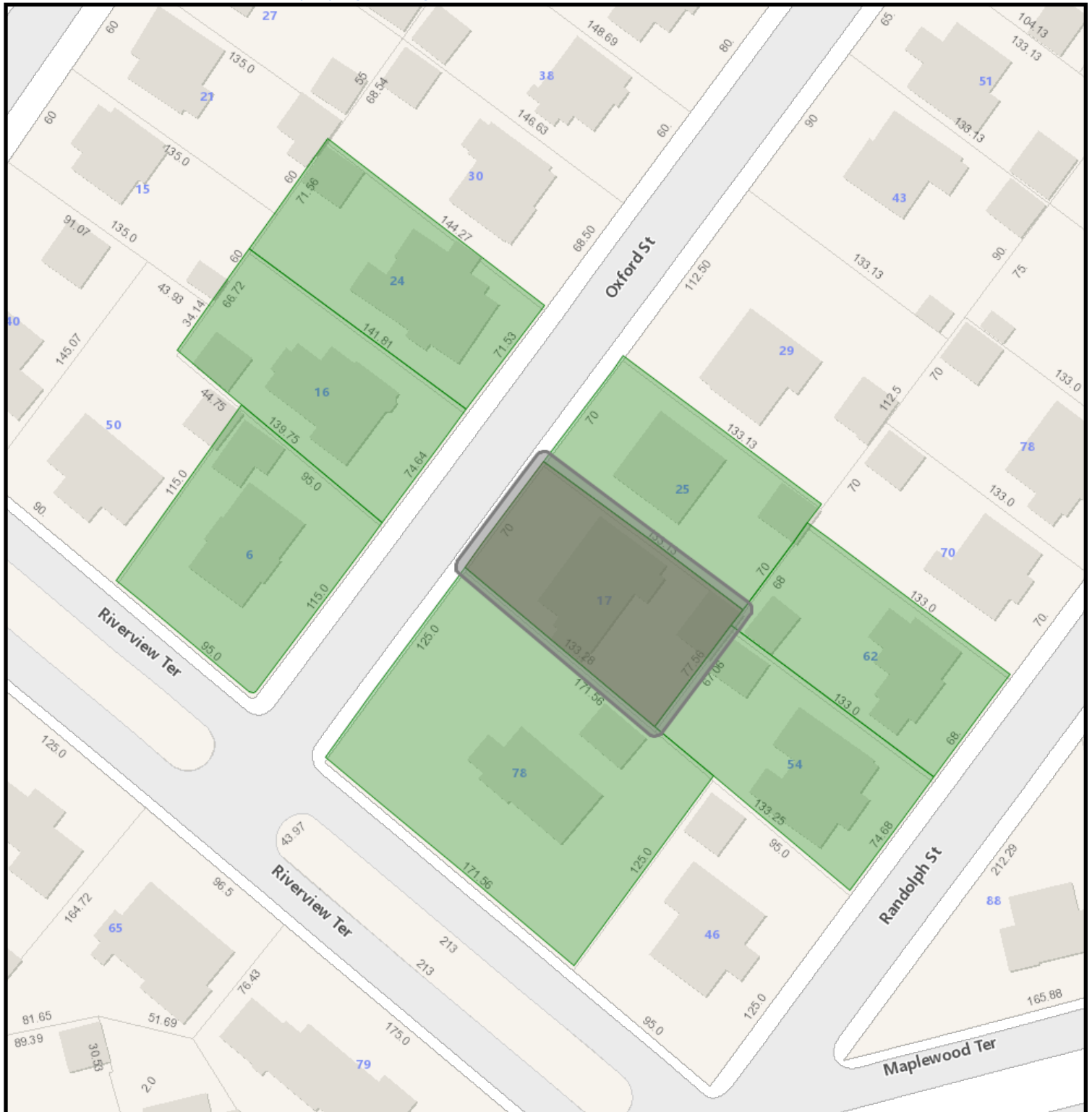












17 Oxford Street GIS Map

11/12/2025 3:18:53 PM

Scale: 1"=75'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

102870015
DOWNEY MICHAEL T & MARY
78 RIVERVIEW TER
SPRINGFIELD, MA 01108

094150002
KOUNTA MARIAME
6 OXFORD ST
SPRINGFIELD, MA 01108

100650011
LAVOIE SUSAN A
62 RANDOLPH ST
SPRINGFIELD, MA 01108

094150028
MARKEY PATRICK J &
17 OXFORD ST
SPRINGFIELD, MA 01108

094150026
MOISE MARJORIE & GREENE
25 OXFORD ST
SPRINGFIELD, MA 01108

094150006
SAENZ FELICITA
24 OXFORD ST
SPRINGFIELD, MA 01108

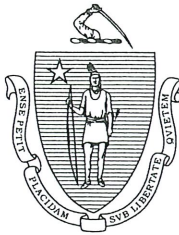
100650009
TOLPAROVA LIDIA TR
54 RANDOLPH ST
SPRINGFIELD, MA 01108

094150004
WONG MICHAEL S & YAN
16 OXFORD ST
SPRINGFIELD, MA 01108

2026 HISTORICAL COMMISSION SCHEDULED MEETINGS

(In-Person Meetings held at 5:30PM until further notice in Tapley Video Conference Room at 70 Tapley Street)

<i>Applications due by 4:00 PM</i>	<i>MEETING DATE</i>
n/a	January 1, 2026 (<i>Cancelled - New Year's Day</i>)
December 26, 2025	January 15, 2026
January 16, 2026	February 5, 2026
January 30, 2026	February 19, 2026
February 13, 2026	March 5, 2026
February 27, 2026	March 19, 2026
March 13, 2026	April 2, 2026
March 27, 2026	April 16, 2026
April 17, 2026	May 7, 2026
May 1, 2026	May 21, 2026
May 15, 2026	June 4, 2026
May 29, 2026	June 18, 2026
June 12, 2026	July 2, 2026
June 26, 2026	July 16, 2026
July 17, 2026	August 6, 2026
July 31, 2026	August 20, 2026
August 14, 2026	September 3, 2026
August 28, 2026	September 17, 2026
September 11, 2026	October 1, 2026
September 25, 2026	October 15, 2026
October 16, 2026	November 5, 2026
October 30, 2026	November 19, 2026
November 13, 2026	December 3, 2026
November 27, 2026	December 17, 2026
December 18, 2026	January 7, 2027



The Commonwealth of Massachusetts

November 19, 2025 William Francis Galvin, Secretary of the Commonwealth
Massachusetts Historical Commission

Alisa Augenstein
Senior Architectural Historian
The Public Archaeology Laboratory, Inc.
26 Main Street
Pawtucket, RI 02860

RE: Central Street Rowhouses Historic District, Springfield National Register nomination

Dear Ms. Augenstein:

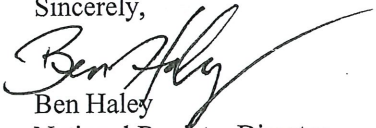
MHC National Register staff have completed our review of the National Register nomination that Public Archaeology Laboratory prepared for the Central Street Rowhouses Historic District in Springfield. We have detailed our comments and questions in the enclosed memorandum, and have also marked up the electronic version of the nomination using Track Changes, which we will email to you separately. If you have any questions about our comments, please do not hesitate to contact us. Our intent is to make the nomination as complete as possible prior to its submission to the State Review Board.

In addition to our comment memo, please also see the enclosed documents providing additional guidance regarding nominations submitted as part of the federal historic rehabilitation tax credit program. Once the revision has been submitted and reviewed, and is considered complete, and the project is also complete or near-complete, we will be able to schedule the nomination for presentation to the State Review Board of the Massachusetts Historical Commission as quickly as possible, followed by submission to the National Park Service/National Register program.

In addition to the revisions, we will need a presentation script with image references (photos, maps, etc.) timed to be given in ten minutes or less for us to develop the PowerPoint presentation for the State Review Board meeting. We hope you will be able to attend the meeting in order to answer any questions from the commissioners. If the meeting is held in person, we hope you will be able to attend.

If you have any questions about the National Register program, please do not hesitate to contact Liz King or me here at the MHC. We look forward to working with you and your client in moving ahead with the National Register designation of this historic district.

Sincerely,


Ben Haley
National Register Director
Massachusetts Historical Commission

enclosures

cc (with enclosures): Adam Stein, Northern Heights LP
Alfonso Nardi, Chair, Springfield Historical Commission



The Commonwealth of Massachusetts
William Francis Galvin, Secretary of the Commonwealth
Massachusetts Historical Commission

MEMORANDUM

TO: Alisa Augenstein, Public Archaeology Laboratory
FROM: Ben Haley, National Register Director
DATE: November 19, 2025
RE: Central Street Rowhouses Historic District, Springfield

The beginning of the memo below notes general comments and observations made following staff preliminary review, followed by section-specific comments. This memo provides a record of questions and comments that will accompany the nomination file when it is put in our archive.

We have also marked up the electronic version of the nomination with our comments and questions, using Track Changes, and will email that to you shortly. To expedite the review process, please keep the document in the Track Changes setting and make any corrections/changes in the document alongside our edits/comments so that we may see that they have been made. You may also wish to use Track Changes and comment bubbles/balloons to indicate additional comments. Please leave Track Changes on when you return the document to us and do not accept the changes—just leave them in the marked-up document. This will allow us to review the changes expeditiously and move the nomination along in the review process. Given the nature of marking up a document in Track Changes, not all changes will be noted in the memo since not all corrections/edits will be necessary to highlight. Note that comments are referenced to a page and paragraph.

General

Pagination has been edited to continue through all sections instead of restarting with each new section, and footers with section/page numbers have been included from Section 9 on.

The photo key map includes parcel IDs that are hyphenated. The boundary description and datasheet have parcel IDs that are not. Which is correct, or are they interchangeable?

Section 7

Please include the MHC numbers for each group of rowhouses in each section.

Update the information about the current rehabilitation project if anything has changed since the first draft submission.

p. 4, Section 7 summary: Please note that Second Empire was never “the” dominant style for houses constructed between 1860 and 1880. As stated in McAlester’s *Field Guide* (from which the statement in the draft appears derived), it was “a dominant style for American houses constructed between 1860 and 1880.”

Section 8

Period of Significance:

From what is presented in the draft, the existing period of significance ending 50 years from the present is not justifiable for Architecture and Community Planning & Development. We recommend limiting the period to the date range of the four phases of construction.

Criterion C:

Significance under Criterion C for the collection being “the largest extant block of rowhouses in Springfield” is contingent upon establishing that this type of resource is significant. That is not adequately accomplished in the Criterion C subsection. “Largest number of X type of resource” is not a way that something is eligible unless the resource type is established as significant and the nominated examples are significant.

The subsection should proceed as “the collection of rowhouses is significant for reasons X, Y, and Z, here is the context to support that.” At present, it is essentially “the collection of rowhouses is significant, here is context on rowhouses,” but no clear case for significance is provided. Why are rowhouses important? We are provided reasons rowhouses may be constructed and that Springfield did not have as many, proportionally speaking, as other urban areas in the second half of the 19th century, but we are not provided information about why this information relates to significance. The discussion of character-defining features of rowhouses is important and works to support eligibility under Architecture provided the argument is that they embody distinctive characteristics of type, but that will need to be made more explicit. Additionally, their significance as representing a particular style seems secondary to their significance as examples of a type or as a significant and distinguishable entity whose components lack individual distinction. As noted in the draft, they are, in any case, fairly modest examples of Second Empire architecture.

Upon reviewing the draft, MHC NR staff feel that significance under Community Planning & Development is more justifiable under Criterion C than A because the rowhouses reflect an important pattern of physical development/land division/land use.

General:

In terms of structure, it would appear to make the most sense to place the subsections titled “History of Springfield” and “Development of the South End” at the beginning of the Narrative Statement of Significance and move the Criterion A summary paragraph from the beginning to after that text and before the subsection titled “Central Street Rowhouse Development.” Those

two introductory subsections function well as standalone context not specifically tied to Criterion A significance (and, as noted above, NR staff feel significance under Community Planning & Development is best changed to Criterion C).

Selected Section 8 Marginal Comments:

p. 11, Section 8 Summary paragraph 2:

- Regarding significance under Architecture: They may be fine examples of Second Empire rowhouses, but it would seem that they are eligible under this area either as significant examples of a building type (rowhouse) or collectively as a significant and distinguishable entity whose components lack individual distinction.
- Would it be more appropriate to say the collection represents a rare/uncommon surviving type, since there are other small groups within Springfield?

p. 16, first paragraph: While the influx of immigrants and need for housing may be related to how the city expanded, it is not clear that information on specific immigrant groups is relevant to significance under Community Planning & Development. (If this section is moved as suggested above, it will not be tied directly to this area of significance and more usefully fall under the background context discussion.

p. 17, second paragraph:

- “Farrar sold off his entire real estate portfolio”, or was it almost all of it, if he kept 11–51 Central Street into the late 1870s?
- Does “that year” in the same sentence about Farrar selling his real estate portfolio refer to 1875?

pp. 18–19: The info from the last paragraph of p. 18 to the post-period of significance subsection does not seem relevant to significance under Community Planning & Development.

p. 21, second paragraph: As noted above, their style is not the primary factor in architectural significance, but this statement here about the collection being modest examples of Second Empire is somewhat at odds with the Section 8 summary that makes a point of stating that the rowhouses embody a number of the notable character-defining features of the style.

Maps

The assessor’s map does not show parcel ID numbers, but the photo key does. These should be switched. Since they all have the same ID, that should be easy to add.



The Commonwealth of Massachusetts
William Francis Galvin, Secretary of the Commonwealth
Massachusetts Historical Commission

MEMORANDUM

TO: Federal Historic Rehabilitation Tax Credit Applicants

FROM: Brona Simon, Executive Director, State Historic Preservation Officer
Massachusetts Historical Commission

A handwritten signature in dark ink, appearing to read "B. Simon", located to the right of the "FROM:" line.

DATE: March 22, 2018

RE: SUPPLEMENTAL INFORMATION to December 5, 2017 memo/National Register
Nominations in Conjunction with Federal Historic Rehabilitation Tax Credits

Please note that the final National Register nomination cannot go to the State Review Board for their vote until the project is complete or near complete.
The final nomination (after revisions responsive to MHC staff's comments) cannot show a property in the midst of rehabilitation. It must include, at a minimum, photos of the building after windows, doors, and openings are repaired or replaced.

The federal tax credit program requires that a building be listed in the National Register within 30 months of completion of the Part 3 application process.

Please plan accordingly.

xc: Historic Preservation Consultants



The Commonwealth of Massachusetts
William Francis Galvin, Secretary of the Commonwealth
Massachusetts Historical Commission

MEMORANDUM

TO: Federal Historic Rehabilitation Tax Credit Applicants

FROM: Brona Simon, Executive Director, State Historic Preservation Officer
Massachusetts Historical Commission

A handwritten signature in dark ink, appearing to read 'B. Simon', written over the printed name of Brona Simon.

DATE: December 5, 2017

RE: National Register Nominations in Conjunction with Federal Historic Rehabilitation Tax Credits

The following is provided for your information concerning the timing of your submission of National Register nominations for processing by the Massachusetts Historical Commission (MHC) in connection with the Federal Historic Rehabilitation Tax Credit Program.

In addition to filing your Part 3 application with the MHC (Office of the State Historic Preservation Officer) and receiving approval from the National Park Service for work completed, final certification requires listing of the property in the National Register.

The MHC's process of reviewing and finalizing a National Register nomination for consideration by the State Review Board generally takes approximately 18 months.

The MHC urges you to submit a draft nomination *early* in the process of implementing your project. It is advisable that you submit your draft nomination well before you file your Part 3 final certification application. Due to the popularity of the National Register program, the MHC receives numerous National Register applications for review and submittal to the Keeper of the National Register at the National Park Service, a process that often involves editing and revision of draft nominations in order to meet the National Register nomination requirements.

Please note that the final National Register nomination cannot go to the State Review Board for their vote until the project is complete or near complete. The final nomination (after revisions responsive to MHC staff's comments) cannot show a property in the midst of rehabilitation. It must include, at a minimum, photos of the building after windows, doors, and openings are repaired or replaced.

The federal tax credit program requires that a building be listed in the National Register within 30 months of completion of the Part 3 application process.

Please plan accordingly.

xc: Historic Preservation Consultants



The Commonwealth of Massachusetts
William Francis Galvin, Secretary of the Commonwealth
Massachusetts Historical Commission

November 12, 2025

Jeff Oldenburg
Van der Heyden Apts LP
619 State Street
Springfield, MA 01109

Dear Mr. Oldenburg:

The Massachusetts Historical Commission is pleased to inform you that The Van der Heyden in Springfield was accepted by the National Park Service, Department of the Interior, for listing in the National Register of Historic Places on September 2, 2025. Enclosed is a certificate recognizing the designation of the building in the National Register of Historic Places.

For your information, an explanation of the National Register of Historic Places is enclosed. If you have any questions or wish further information, please do not hesitate to contact the Massachusetts Historical Commission.

We share with you a sense of pride that this historic property has been listed.

Sincerely,

A handwritten signature in dark ink, appearing to read "William Francis Galvin".

William Francis Galvin
Secretary of the Commonwealth
Chairman, Massachusetts Historical Commission

A handwritten signature in dark ink, appearing to read "Brona Simon".

Brona Simon
Executive Director
State Historic Preservation Officer
Massachusetts Historical Commission

cc: Domenic J. Sarno, Mayor of Springfield
Chair, Springfield Historical Commission
Gloria DeFillipo, Chair, Springfield Planning Board
Douglas Kelleher, Epsilon Associates, Inc.

Enclosures

From: [David Gutbrod](#)
To: [Strniste, Andrew](#)
Subject: [External] RE: Eversource Lines 1544 & 1755 HDD Project, West Springfield & Springfield, MA. MHC #RC. 73461.
Date: Wednesday, November 26, 2025 2:51:12 PM
Attachments: [Outlook-fpnvkusq.png](#)

Hello Springfield Historic Commissioners,

Please note the scheduling of the HDD construction to be started on December 8th, 2025 for the eventual utility tunnel under the Connecticut River. Commonwealth Cultural has been approved to monitor the openings on both the Springfield and West Springfield sides for cultural resources and potential indigenous resources at deep levels under a disturbed surface context (Parking lot at Chapin Street West Springfield).

Below are the updated scheduling and the letter from the MHC for alerting interested parties.

Thank you,

David Gutbrod
Senior Archaeologist
Commonwealth Cultural & Archaeological Assessors LLC
7 4 Depot Street
Westford, MA 01886

RE: Eversource Lines 1544 & 1755 HDD Project, West Springfield & Springfield, MA.
MHC #RC. 73461.

Staff of the Massachusetts Historical Commission (MHC) have reviewed the Project Notification Form, the cultural resources sensitivity assessments dated October 26, 2022 and June 26, 2024, and the State Archaeologist's permit application for archaeological monitoring for the project referenced above.

In preparing research designs and methodologies, please include a section that indicates notifications will be made to knowledgeable and potentially interested parties of the investigation, and of the proposed fieldwork schedule. Please invite knowledgeable and potentially interested parties to visit during the investigation, and to learn about and comment on the results.

For this investigation, please plan to notify the potentially interested Tribal Historic Preservation Officers and the other parties that you listed your cover letter October 29, 2025, and the West Springfield and Springfield Historical Commissions, of the proposed fieldwork

schedule. Please invite them to visit during the investigation, and to learn about and comment on the results.

State Archaeologist's Permit #4463 has been issued for this investigation.

Schedule update November 26, 2025.

RE: FW: 1544-1755: additional MHC review/permit

Tracy J. Adamski<TJAdamski@tighebond.com>

David Gutbrod

Anna Meassick <AMeassick@tighebond.com>;+2 others

David –

We were provided with an updated schedule from the contractors this morning for the work on Chapin and at the Clinton substation.

The contractors plan to mobilize next week, and will start the excavation on 12/8. They anticipate that the work at Chapin will take 1.5 to 2 weeks, so that work on the Springfield side of the river at the Clinton Substation will start on 1/5/2026.

Please plan to be on site at Chapin on 12/8.

End of message.

David Gutbrod M.A., R.P.A.

Senior Archaeologist and Geophysicist

Commonwealth Cultural and Archaeological Assessors, LLC

[617-851-8228](tel:617-851-8228)

dgutbrod@commonwealthcultural.com

commonwealthcultural.com



COMMONWEALTH
CULTURAL & ARCHAEOLOGICAL
ASSESSORS, LLC.

CAUTION: This email originated outside our organization; please use caution.

From: [Gulluni, Leslie](#)
To: [Strniste, Andrew](#)
Cc: [Roberge, Jonathan](#); [Melissa P. Coady](#); [Tracy J. Adamski](#); [MacDonald, Glen A](#)
Subject: [External] Pre-Construction Notification
Date: Friday, November 28, 2025 11:56:39 AM

Good morning, Andrew,

I hope this message finds you well. We would like to notify the Historical Commission of the following:

Eversource is replacing the existing High-Pressure Fluid Filled (HPFF) pipe-type cable (PTC) 115-kV underground transmission lines, Lines 1544 & 1755, with a new 115-kV cross-linked polyethylene (XLPE) underground transmission line via Horizontal Directional Drilling (HDD) underneath the Connecticut River. The staging area and entry pit for HDD will be at 135 Clinton Street, Springfield, MA and at the parking lot across from 58 Chapin Street, West Springfield, MA. The Massachusetts Historical Commission (MHC) has requested that an archaeologist monitor excavation work at the 135 Clinton Street Springfield and parking lot across from 58 Chapin Street West Springfield sites and that the local historic commissions be informed of the work, invited to visit the investigation, and to learn and comment on the results.

Eversource intends to begin working at the parking lot across from 58 Chapin Street on 12/8/2025. Work is anticipated to occur here for 1-2 weeks. Work is expected to begin on 1/5/2025 in Springfield at 135 Clinton Street. Due to the nature of the work and location, an archeologist will be present on site in case of any discoveries. A description of the project is below:

Early Vault Install: Infrasource in conjunction with Eversource will begin install of the HDD vault on Chapin Street in West Springfield and backfill prior to horizontal drilling occurring. Shoring will be installed during this process, and the vaults will be picked and set by an on-road crane. A Cat 330 excavator will be mobilized for this work.

The Clinton Street vault in Springfield will be installed after drilling is complete. There will be exploratory digging and z cutting to identify underground utilities during the early vault install process on the Clinton Street Side. The entire early vault install should take roughly 2 weeks.

HDD: Infrasource in conjunction with Mears will be directionally drilling ~1900 LF of high voltage transmission lines under the Connecticut River. This process should take roughly 2-3 months in late 2026.

Please let me know if you have any questions or concerns. Have a great day.

Thank you,

Leslie Gulluni | Eversource
Community Relations Specialist | Western MA
413-885-7303 | leslie.gulluni@eversource.com

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