

CITY OF WEST CHICAGO

WHERE HISTORY & PROGRESS MEET

Historical Preservation Commission Tuesday, June 25, 2024 - 6:00 p.m.

West Chicago City Hall – Council Chambers
475 Main Street
West Chicago, IL 60185

AGENDA

1. **Call to Order, Roll Call and Establishment of a Quorum**
2. **Public Comment**
3. **Certificate of Appropriateness Review**
 - A. C.O.A. 24-09 – 332 E Washington Street – Solar Panels
 - B. C.O.A. 24-10 – 102 Main Street – Rear Entry Façade (Facing Turner Court)
 - C. C.O.A. 24-11 – 109 Turner Court – Window/Door Sign
 - D. C.O.A. 24-12 – 119 Turner Court – Window Replacement
4. **Preliminary Review**
5. **Historic District/Landmark Updates**
6. **Approval of the draft May 23, 2024 Meeting Minutes**
7. **Approval of the draft March 28, 2023 Meeting Minutes**
8. **Other Business**
 - A. 200 Main Street – Façade Renovation Update
9. **Adjournment** – The next regularly scheduled meeting is July 23, 2024

CC: Historical Preservation Commission Members
Alderman Beebe, City Council Liaison to Historical Preservation Commission
Mayor & City Council
Michael Guttman, City Administrator
Valeria Perez, Executive Office Manager
Mehul Patel, Director of Public Works
Tom Dabareiner, Director of Community Development
John Sterrett, Assistant Director of Community Development
Stuart Caravello, Chief Building Official
Kelley Chrise, Economic Development Coordinator
Sara Phalen, City Museum Director
News Media



CITY OF WEST CHICAGO

HISTORICAL PRESERVATION COMMISSION AGENDA ITEM SUMMARY

ITEM TITLE:

Solar Panels
332 E Washington Street
Richard Luckow

C.O.A. # 24-09

AGENDA ITEM NUMBER: 3 A.**COMMISSION AGENDA DATE:** 06-25-24**STAFF REVIEW:** John Sterrett, City Planner**SIGNATURE** _____**ITEM SUMMARY:**

Rick Luckow, homeowner of 332 East Washington Street in the East Washington Street Historic District, is requesting approval of a Certificate of Appropriateness application to install rooftop solar panels on the subject house. The applicant intends to install 19 solar panels on the south side of the house, out of view from Washington Street. None of the panels will be installed on the north side of the house. The proposed location of these panels is on the rear of the house, away from Washington Street, and is consistent with previous approvals of solar panels on Washington Street. This proposal was discussed at the May Commission meeting at which time the members of the Commission were not opposed to the project but wanted to see more details on the proposed solar panels, which have now been submitted. Please see attached information for more details.

The building is considered a candidate for local landmark status and is contributing to the East Washington Street Historic District. Constructed in the 1950's, it is a modern interpretation of the classic revival and was originally used as the public library.

ACTION PROPOSED:

Consideration of roof-mounted solar panels at 332 E Washington Street.

PHOTOVOLTAIC ROOF MOUNT SYSTEM

19 MODULES-ROOF MOUNTED - 7.410 KW DC, 5.510 KW AC

332 E WASHINGTON ST, WEST CHICAGO, IL 60185



SOURCE SOLAR LLC

115 SOUTHGATE AVE IOWA
CITY, IA 52240
PHONE (+1)(319) 465-9907

PROJECT DATA

PROJECT ADDRESS 332 E WASHINGTON ST,
WEST CHICAGO, IL 60185

OWNER: RICHARD LUCKOW

DESIGNER: ESR

SCOPE: 7.410 KW DC ROOF MOUNT
SOLAR PV SYSTEM WITH
19 JINKO SOLAR JKM390M-72HBL-V
390W PV MODULES WITH
19 ENPHASE IQ8PLUS-72-2-US
MICROINVERTERS

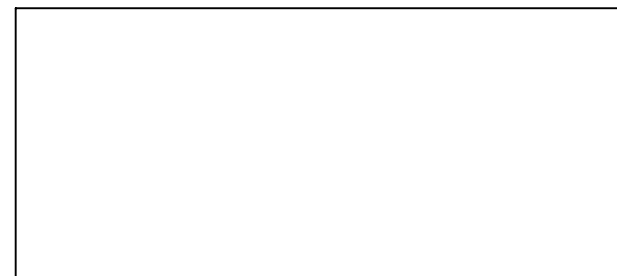
**UPGRADE MAIN SERVICE PANEL TO 200A
RATED BUS WITH 200A MAIN BREAKER**

AUTHORITIES HAVING JURISDICTION:
BUILDING: CITY OF WEST CHICAGO
ZONING: CITY OF WEST CHICAGO
UTILITY: COMED

SHEET INDEX

PV-1	COVER SHEET
PV-2	SITE PLAN
PV-3	ELECTRICAL PLAN
PV-4	ROOF PLAN AND MODULES
PV-5	ELECTRICAL LINE DIAGRAM
PV-6	WIRING CALCULATIONS
PV-7	ELEVATION DETAIL
PV-8	STRUCTURAL DETAIL
PV-9	MODULE DATASHEET
PV-10	MICROINVERTER DATASHEET
PV-11	COMBINER BOX DATASHEET
PV-12	ATTACHMENT DATASHEET
PV-13	EQUIPMENT DATASHEET
PV-14	JUNCTION BOX DATASHEET
PV-15	LABELS
PV-16	PLACARD

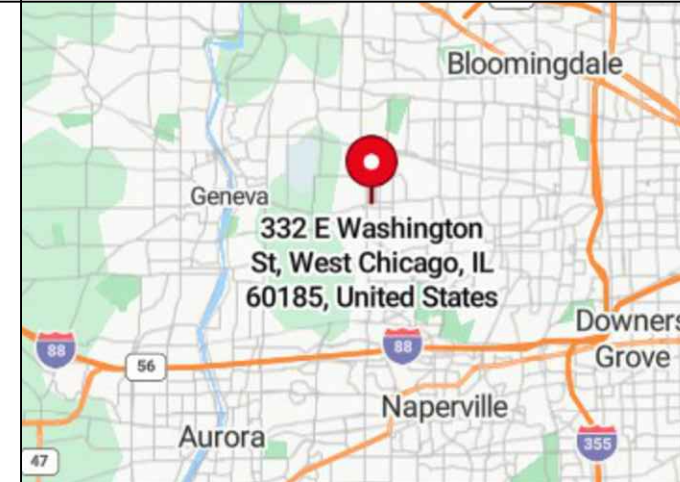
AHJ SIGNATURE/STAMP



GENERAL NOTES

- ALL COMPONENTS ARE UL LISTED AND NEC CERTIFIED, WHERE WARRANTED.
- THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2014.
- THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
- ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY.
- WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT.
- HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24.
- A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM.
- PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE.
- PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
- ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE.
- ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH THE 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.
- INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED.
- THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)]
- ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.
- ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
- SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41.
- PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12
- DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM [NEC 690.13(A)]
- ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31
- WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3).
- ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL1703
- ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.
- IN ACCORDANCE WITH 2021 IFC 1205.5, 2018 IFC 1204.4, AND 2015 IFC 605.11.2 A CLEAR, BRUSH-FREE AREA OF 10 FEET(3048 MM) SHALL BE REQUIRED FOR GROUND-MOUNTED PHOTOVOLTAIC ARRAYS.
- PANEL LAYOUT ORIENTATION IS SUBJECT TO CHANGE ON DESIGNED MOUNTING PLANES.

VICINITY MAP



HOUSE PHOTO



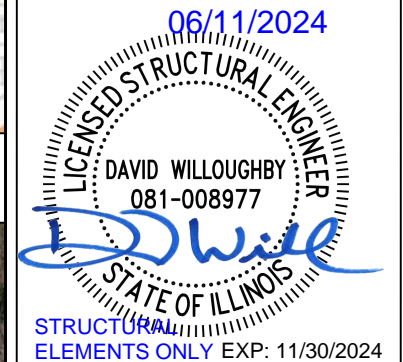
CODE REFERENCES

PROJECT TO COMPLY WITH THE FOLLOWING:

- 2014 NATIONAL ELECTRICAL CODE (NEC)
- 2015 INTERNATIONAL RESIDENTIAL CODE (IRC)
- 2015 INTERNATIONAL BUILDING CODE (IBC)
- 2015 INTERNATIONAL FIRE CODE (IFC)

REVISIONS

DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



PROJECT NAME & ADDRESS

RICHARD LUCKOW
RESIDENCE
332 E WASHINGTON ST,
WEST CHICAGO, IL 60185

DRAWN BY

ESR

SHEET NAME

COVER SHEET

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-1

PROJECT DESCRIPTION:

19 X JINKO SOLAR JKM390M-72HBL-V 390W MONO MODULES
 ROOF MOUNTED SOLAR PHOTOVOLTAIC MODULES
 DC SYSTEM SIZE: 19 x 390 = 7.410KW DC
 AC SYSTEM SIZE: 19 x 290 = 5.510KW AC

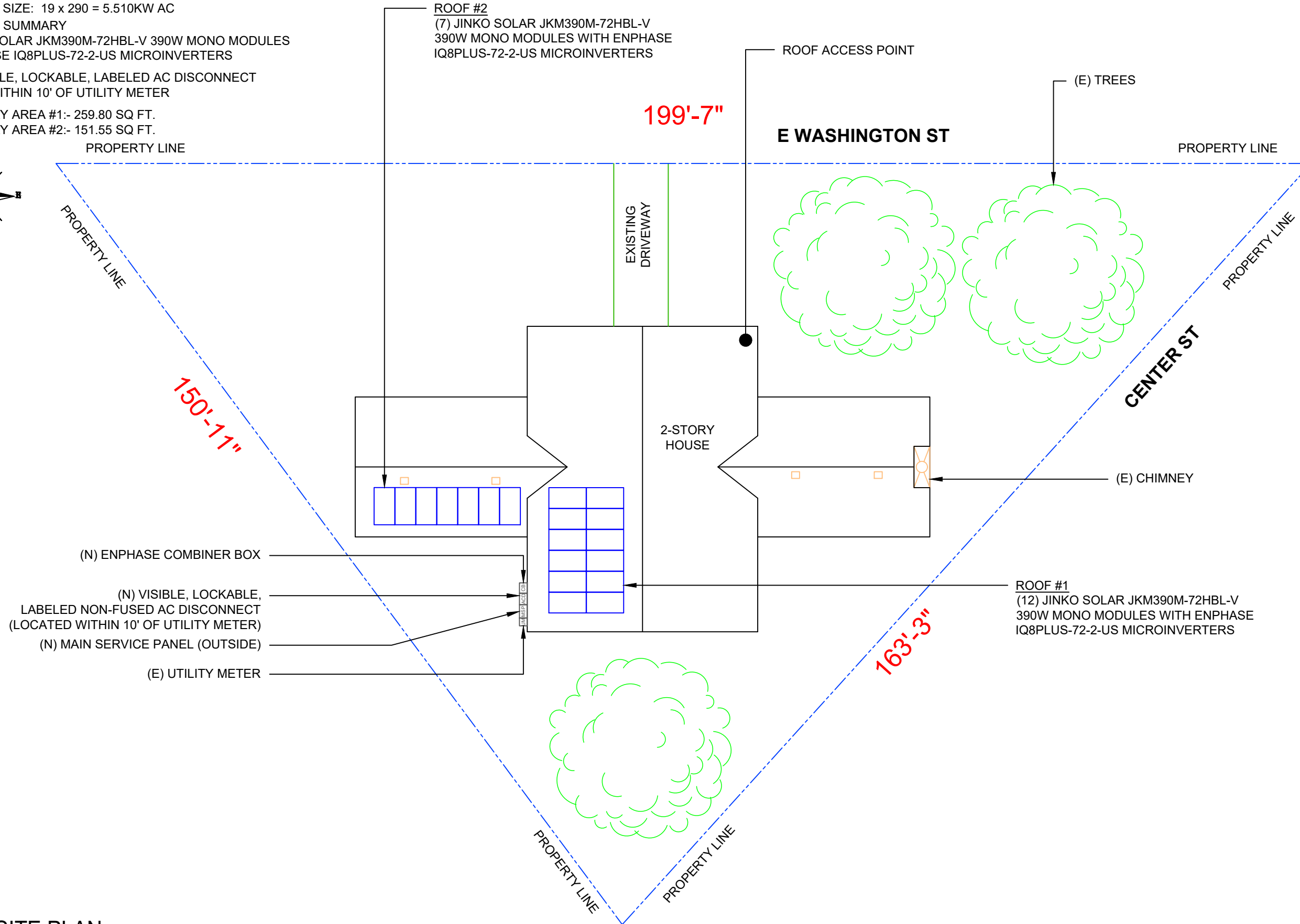
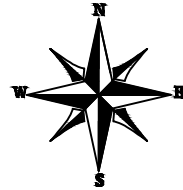
EQUIPMENT SUMMARY

19 JINKO SOLAR JKM390M-72HBL-V 390W MONO MODULES
 19 ENPHASE IQ8PLUS-72-2-US MICROINVERTERS

NOTE: VISIBLE, LOCKABLE, LABELED AC DISCONNECT
 LOCATED WITHIN 10' OF UTILITY METER

ROOF ARRAY AREA #1:- 259.80 SQ. FT.

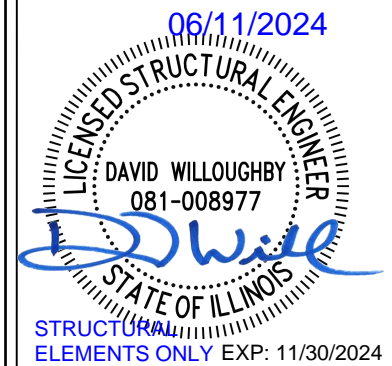
ROOF ARRAY AREA #2:- 151.55 SQ. FT.



SOURCE SOLAR LLC

115 SOUTHGATE AVE IOWA
 CITY, IA 52240
 PHONE (+1)(319) 465-9907

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



PROJECT NAME & ADDRESS



**RICHARD LUCKOW
 RESIDENCE**
 332 E WASHINGTON ST,
 WEST CHICAGO, IL 60185

DRAWN BY
ESR

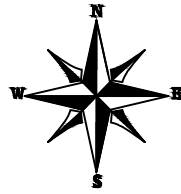
SHEET NAME
SITE PLAN

SHEET SIZE
**ANSI B
 11" X 17"**

SHEET NUMBER
PV-2

CIRCUIT LEGENDS	
	CIRCUIT #1
	CIRCUIT #2

NOTE : CONDUIT INSTALLED AT MINIMUM DISTANCE OF 7/8 INCHES ABOVE ROOF

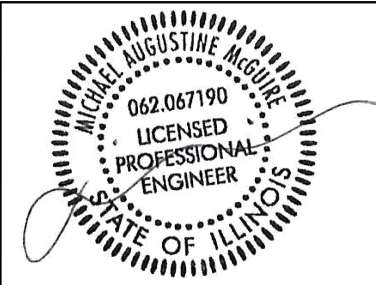


BILL OF MATERIALS		
EQUIPMENT	QTY	DESCRIPTION
SOLAR PV MODULES	19	JINKO SOLAR JKM390M-72HBL-V 390W MODULE
MICRO INVERTERS	19	ENPHASE IQ8PLUS-72-2-US MICROINVERTERS
JUNCTION BOX	2	JUNCTION BOXES
MID MODULE CLAMPS	32	MID MODULE CLAMPS
END CLAMPS	12	END CLAMPS / STOPPER SLEEVE
ATTACHMENTS	44	MINIRAIL COMP ATTACHMENTS



SOURCE SOLAR LLC
 115 SOUTHGATE AVE IOWA
 CITY, IA 52240
 PHONE (+1)(319) 465-9907

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



sealed 11jun2024 mike@h2dc.com
 H2DC PLLC IL S&P#: 184007659-0002
 ELECTRICAL ONLY
 - NOT AN AS-BUILT DRAWING SET -

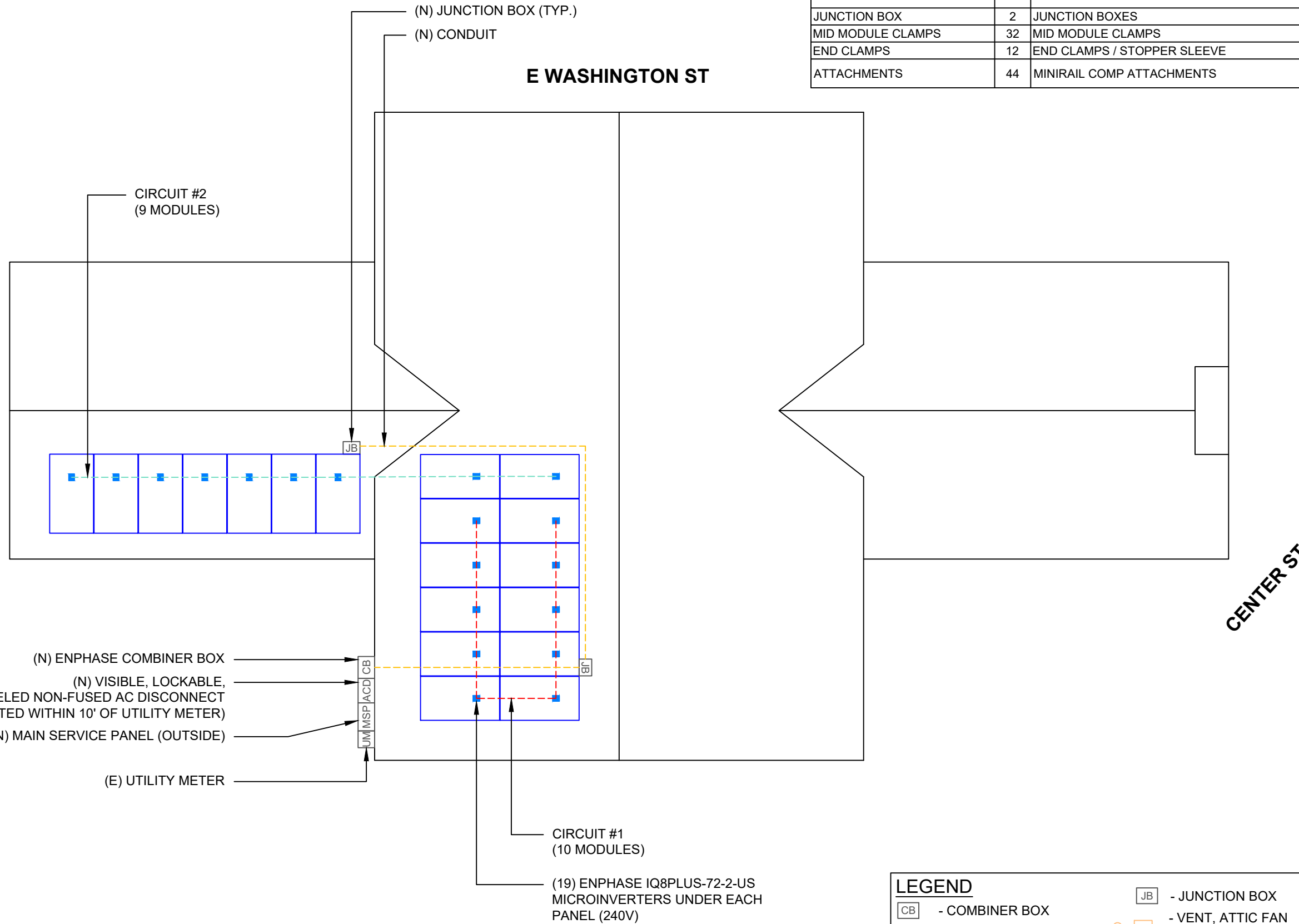
PROJECT NAME & ADDRESS
**RICHARD LUCKOW
 RESIDENCE**
 332 E WASHINGTON ST,
 WEST CHICAGO, IL 60185










DRAWN BY
ESR

SHEET NAME
ELECTRICAL PLAN

SHEET SIZE
**ANSI B
 11" X 17"**

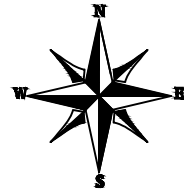
SHEET NUMBER
PV-3



LEGEND	
	- COMBINER BOX
	- AC DISCONNECT
	- UTILITY METER
	- MAIN SERVICE PANEL
	- JUNCTION BOX
	- VENT, ATTIC FAN (ROOF OBSTRUCTION)
	- ROOF ATTACHMENT
	- TRUSS
	- CONDUIT

MODULE TYPE, DIMENSIONS & WEIGHT

NUMBER OF MODULES = 19 MODULES
 MODULE TYPE = JINKO SOLAR JKM390M-72HBL-V 390W MONO MODULES
 MODULE WEIGHT = 47.0 LBS / 21.3KG.
 MODULE DIMENSIONS = 79.06" x 39.45" = 21.65 SF



ROOF DESCRIPTION					
ROOF TYPE				ASPHALT SHINGLE	
ROOF	# OF MODULES	ROOF PITCH	AZIMUTH	TRUSS SIZE	TRUSS SPACING
#1	12	24°	270°	2"X4"	24"
#2	7	24°	180°	2"X4"	24"

ARRAY AREA & ROOF AREA CALC'S		
TOTAL PV ARRAY AREA (SQ. FT.)	TOTAL ROOF AREA (Sq. Ft.)	ROOF AREA COVERED BY ARRAY (%)
411.35	2999.99	14



SOURCE SOLAR LLC
 115 SOUTHGATE AVE IOWA
 CITY, IA 52240
 PHONE (+1)(319) 465-9907

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	

06/11/2024

LICENSED STRUCTURAL ENGINEER

DAVID WILLOUGHBY
 081-008977

STATE OF ILLINOIS

STRUCTURAL ELEMENTS ONLY EXP: 11/30/2024

PROJECT NAME & ADDRESS

**RICHARD LUCKOW
 RESIDENCE**

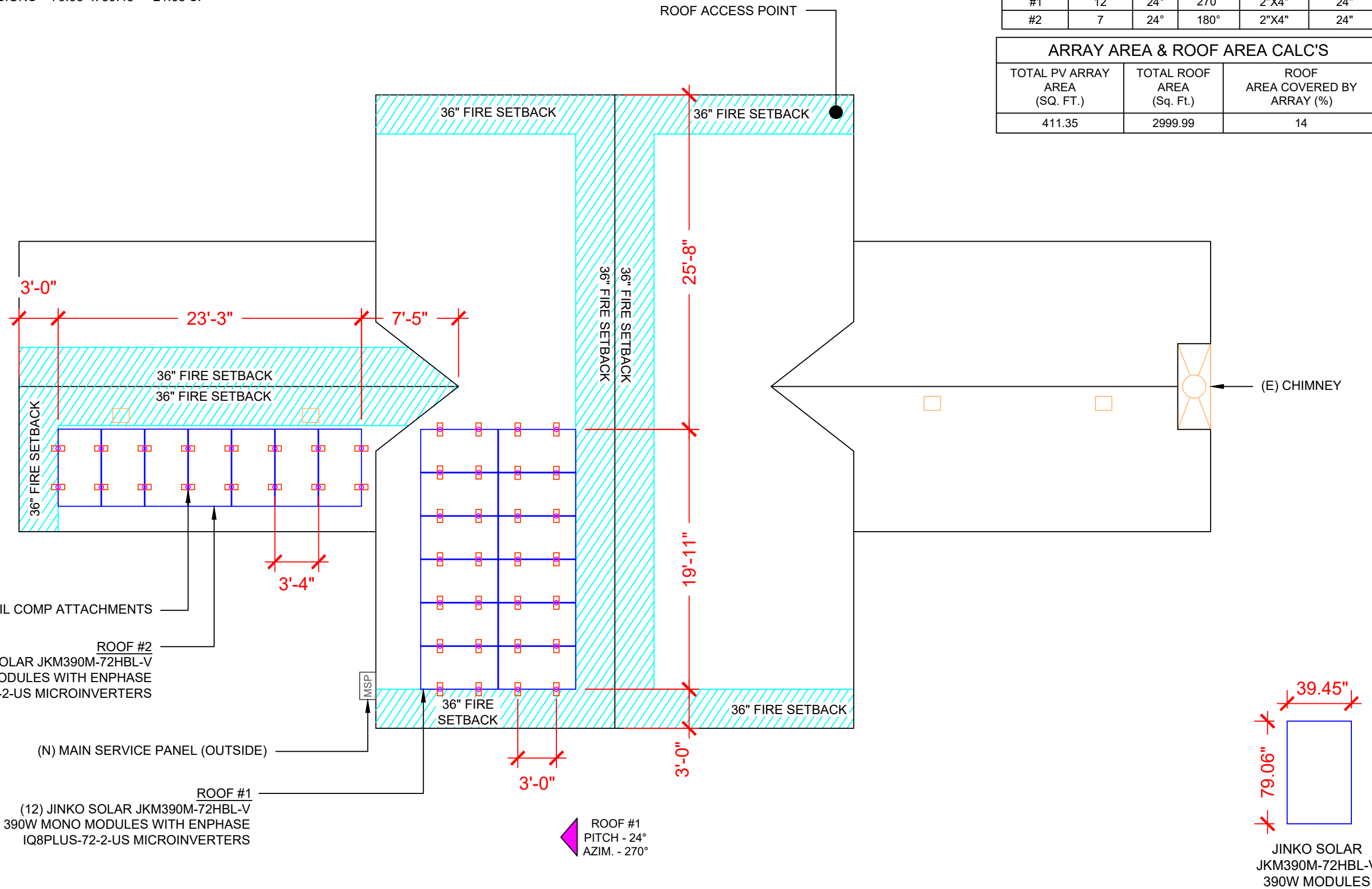
332 E WASHINGTON ST,
 WEST CHICAGO, IL 60185

DRAWN BY
ESR

SHEET NAME
**ROOF PLAN AND
 MODULES**

SHEET SIZE
**ANSI B
 11" X 17"**

SHEET NUMBER
PV-4



ROOF #2
 PITCH - 24°
 AZIM. - 180°

ROOF #1
 PITCH - 24°
 AZIM. - 270°

(44) MINIRAIL COMP ATTACHMENTS

ROOF #2
 (7) JINKO SOLAR JKM390M-72HBL-V
 390W MONO MODULES WITH ENPHASE
 IQ8PLUS-72-2-US MICROINVERTERS

(N) MAIN SERVICE PANEL (OUTSIDE)

ROOF #1
 (12) JINKO SOLAR JKM390M-72HBL-V
 390W MONO MODULES WITH ENPHASE
 IQ8PLUS-72-2-US MICROINVERTERS

LEGEND

MSP - MAIN SERVICE PANEL

- VENT, ATTIC FAN (ROOF OBSTRUCTION)
- ROOF ATTACHMENT
- TRUSS

1 ROOF PLAN AND MODULES

PV-4

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

DC SYSTEM SIZE: 19 x 390 = 7.410KW DC
 AC SYSTEM SIZE: 19 x 290 = 5.510KW AC

(19) JINKO SOLAR JKM390M-72HBL-V 390W MONO MODULES WITH
 (19) ENPHASE IQ8PLUS-72-2-US MICROINVERTERS
 UNDER EACH PANEL (240V)

(1) BRANCH CIRCUIT OF 10 MODULES AND
 (1) BRANCH CIRCUIT OF 09 MODULES ARE CONNECTED IN PARALLEL

OCPD CALCULATIONS:

NEC 690.9(B)
 (19 IQ8 PLUS) * 1.21A * 1.25 = 28.74A

BACKFEED BREAKER CALCULATION (120% RULE):

(MAIN BUS X 1.2 - MAIN BREAKER) >= (INVERTER CURRENT*1.25)
 (200A X 1.2 - 200A) >= (28.74A)
 (40A) >= (28.74A) HENCE OK

INTERCONNECTION NOTES:

1. INTERCONNECTION SIZING, LIMITATIONS AND COMPLIANCE DETERMINED IN ACCORDANCE WITH [NEC 705.12], AND [NEC 690.59].
2. GROUND FAULT PROTECTION IN ACCORDANCE WITH [NEC 215.9], [NEC 230.95].
3. ALL EQUIPMENT TO BE RATED FOR BACKFEEDING.
4. PV BREAKER TO BE POSITIONED AT THE OPPOSITE END OF THE BUSBAR RELATIVE TO THE MAIN BREAKER.

DISCONNECT NOTES:

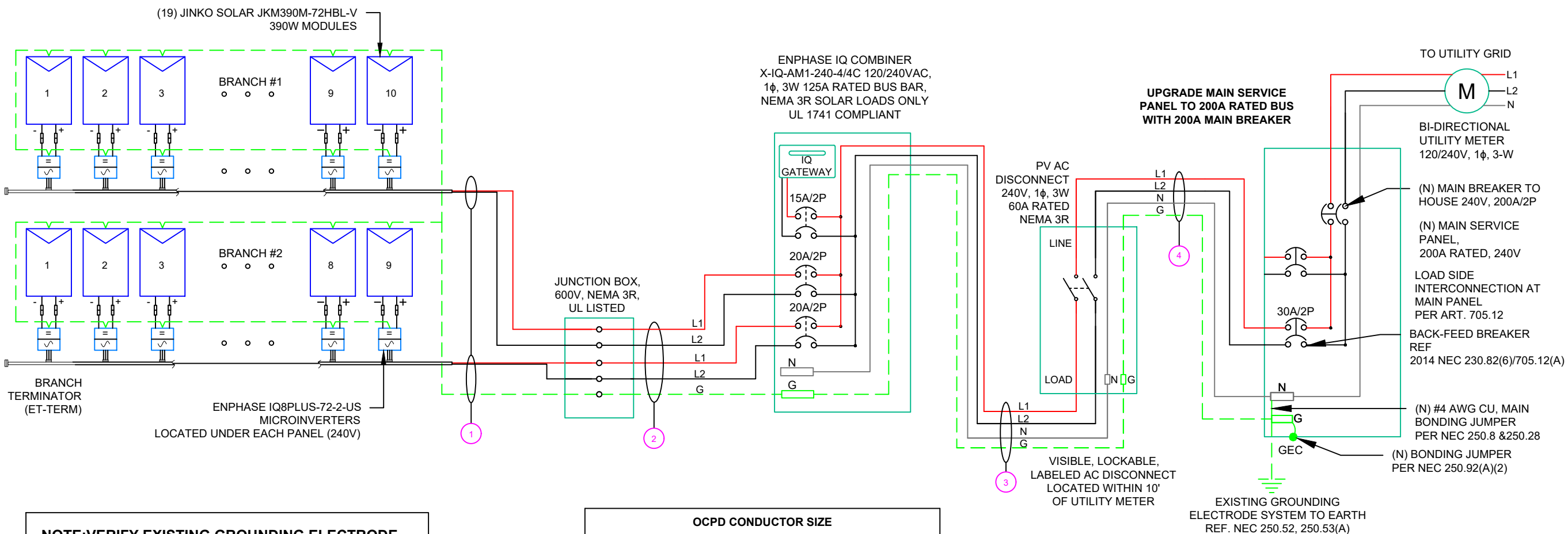
1. DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING LIVE ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS)
2. AC DISCONNECT MUST BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH
3. DISCONNECT MEANS AND THEIR LOCATION SHALL BE IN ACCORDANCE WITH [NEC 225.31] AND [NEC 225.32].

RACKING NOTE:

1. BOND EVERY OTHER RAIL WITH #6 BARE COPPER

GROUNDING & GENERAL NOTES:

1. PV GROUNDING ELECTRODE SYSTEM NEEDS TO BE INSTALLED IN ACCORDANCE WITH [NEC 690.43]
2. PV INVERTER IS UNGROUNDED, TRANSFORMER-LESS TYPE.
3. DC GEC AND AC EGC TO REMAIN UNSPLICED, OR SPLICED TO EXISTING ELECTRODE
4. ANY EXISTING WIRING INVOLVED WITH PV SYSTEM CONNECTION THAT IS FOUND TO BE INADEQUATE PER CODE SHALL BE CORRECTED PRIOR TO FINAL INSPECTION.
5. JUNCTION BOX QUANTITIES, AND PLACEMENT SUBJECT TO CHANGE IN THE FIELD - JUNCTION BOXES DEPICTED ON ELECTRICAL DIAGRAM REPRESENT WIRE TYPE TRANSITIONS.
6. AC DISCONNECT NOTED IN EQUIPMENT SCHEDULE OPTIONAL IF OTHER AC DISCONNECTING MEANS IS LOCATED WITHIN 10' OF SERVICE DISCONNECT.
7. RACEWAYS AND CABLES EXPOSED TO SUNLIGHT ON ROOFTOPS SHOULD BE INSTALLED MORE THAN 7/8" ABOVE THE ROOF USING CONDUIT SUPPORTS.



NOTE: VERIFY EXISTING GROUNDING ELECTRODE HAS A RESISTANCE OF 25 OHMS OR LESS IF IT DOES NOT COMPLY, A SECONDARY GROUNDING ELECTRODE SHALL BE ADDED TO THE SYSTEM VERIFY GROUNDING IS CONNECTED TO STREET SIDE OF COLD WATER METER

NOTE: CONDUIT TO BE UL LISTED FOR WET LOCATIONS AND UV PROTECTED (FMMC IN THE ATTIC, METALLIC CONDUIT (IMC) OR RIGID CONDUIT ON THE EXTERIOR, NO ROMEX)

OCPD CONDUCTOR SIZE	
BREAKER/FUSE SIZE	WIRE GAUGE SIZE (75°C, COPPER)
20A	10 AWG
25A	10 AWG
30A	10 AWG
35A	8 AWG
40A	8 AWG
45A	8 AWG
50A	8 AWG
60A	6 AWG
70A	4 AWG
80A	4 AWG
90A	3 AWG
100A	3 AWG
110A	2 AWG
125A	1 AWG
150A	1/0 AWG
175A	2/0 AWG
200A	3/0 AWG

QTY	CONDUCTOR INFORMATION	CONDUIT TYPE	CONDUIT SIZE
1 (4)	CU#12AWG - ENPHASE ENGAGE CABLE (L1 & L2 NO NEUTRAL)	N/A	N/A
1 (1)	CU #6AWG - BARE COPPER IN FREE AIR		
2 (4)	CU#10AWG - THWN-2 L1 & L2	FMMC IN ATTIC	3/4"
1 (1)	CU #10AWG - CU, THWN-2 GND		
2 (2)	CU #10AWG - THWN-2 OR THHN L1 & L2		
3 (1)	CU #10AWG - CU, THWN-2 OR THHN N	IMC OR RIGID METAL	3/4"
1 (1)	CU #10AWG - CU, THWN-2 OR THHN GND		
2 (2)	CU #10AWG - THWN-2 OR THHN L1 & L2		
4 (1)	CU #10AWG - CU, THWN-2 OR THHN N	IMC OR RIGID METAL	3/4"
1 (1)	CU #10AWG - CU, THWN-2 OR THHN GND		

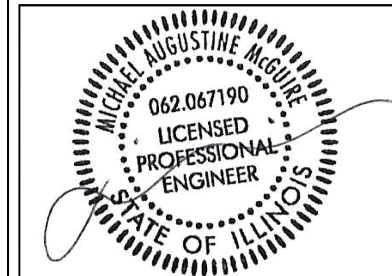
NOTE : "CONDUIT SIZE IS MINIMUM REQUIRED PER NEC300.17. CONTRACTOR MAY UPSIZE AS NEEDED".



SOURCE SOLAR LLC

115 SOUTHGATE AVE IOWA
 CITY, IA 52240
 PHONE (+1)(319) 465-9907

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



sealed 11jun2024 mike@h2dc.com
 H2DC PLLC IL S&P#: 184007659-0002
 ELECTRICAL ONLY
 - NOT AN AS-BUILT DRAWING SET -

PROJECT NAME & ADDRESS

**RICHARD LUCKOW
 RESIDENCE**
 332 E WASHINGTON ST,
 WEST CHICAGO, IL 60185

DRAWN BY

ESR

SHEET NAME

ELECTRICAL LINE DIAGRAM

SHEET SIZE

**ANSI B
 11" X 17"**

SHEET NUMBER

PV-5

1 | ELECTRICAL LINE DIAGRAM

PV-5

SCALE: NTS

INVERTER SPECIFICATIONS

MANUFACTURER / MODEL #	ENPHASE IQ8PLUS-72-2-US MICROINVERTERS
MIN/MAX DC VOLT RATING	22V MIN/ 58V MAX
MAX INPUT POWER	260W-460W
NOMINAL AC VOLTAGE RATING	240V/ 211-264V
MAX AC CURRENT	1.21A
MAX MODULES PER CIRCUIT	13 (SINGLE PHASE)
MAX OUTPUT POWER	290 VA

SOLAR MODULE SPECIFICATIONS

MANUFACTURER / MODEL #	JINKO SOLAR JKM390M-72HBL-V 390W MODULE
VMP	39.64V
IMP	9.84A
VOC	48.6V
ISC	10.46A
TEMP. COEFF. VOC	-0.29%/°C
MODULE DIMENSION	79.06"L x 39.45"W x 1.57"D (In Inch)

AMBIENT TEMPERATURE SPECS

RECORD LOW TEMP	-25°
AMBIENT TEMP (HIGH TEMP 2%)	35°
MODULE TEMPERATURE COEFFICIENT OF Voc	-0.29%/°C

PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT
.80	4-6
.70	7-9
.50	10-20

AC CALCULATIONS

CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	NEUTRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCTORS IN RACEWAY	90°C AMPACITY (A)	DERATION FACTOR FOR AMBIENT TEMPERATURE NEC 310.15(B)(2)(a)	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	90°C AMPACITY DERATED (A)	AMPACITY CHECK #2	FEEDER LENGTH (FEET)	CONDUCTOR RESISTANCE (OHM/KFT)	VOLTAGE DROP AT FLA (%)	CONDUIT SIZE	CONDUIT FILL (%)
CIRCUIT 1	JUNCTION BOX	240	12.10	15.13	20	N/A	BARE COPPER #6 AWG	CU #12 AWG	25	PASS	35	2	30	0.96	1	28.8	PASS			0.46	N/A	#N/A
CIRCUIT 2	JUNCTION BOX	240	10.89	13.61	20	N/A	BARE COPPER #6 AWG	CU #12 AWG	25	PASS	35	2	30	0.96	1	28.8	PASS			0.38	N/A	#N/A
JUNCTION BOX	COMBINER BOX	240	12.10	15.13	20	N/A	CU #10 AWG	CU #10 AWG	35	PASS	35	4	40	0.96	0.8	30.72	PASS	30	1.24	0.375	3/4" IMC	7.64
COMBINER BOX	AC DISCONNECT	240	22.99	28.74	30	CU #10 AWG	CU #10 AWG	CU #10 AWG	35	PASS	35	2	40	0.96	1	38.4	PASS	5	1.24	0.119	3/4" IMC	20.05
AC DISCONNECT	POI	240	22.99	28.74	30	CU #10 AWG	CU #10 AWG	CU #10 AWG	35	PASS	35	2	40	0.96	1	38.4	PASS	5	1.24	0.119	3/4" IMC	20.05

Circuit 1 Voltage Drop	1.073
Circuit 2 Voltage Drop	0.993

NOTES APPENDIX (AS APPLICABLE FOR TO BE BUILT DRAWING SETS): (A) TOTAL AC VOLTAGE DROP NOT TO EXCEED 2% TO INTERCONNECTION, < 3% FROM INVERTER(S) TO UTILITY TRANSFORMER. (B) ALL CONNECTORS 75C RATED. (C) ALL CONDUCTORS COPPER, UNLESS OTHERWISE NOTED. (D) OUTDOOR EQUIPMENT NEMA3R. (E) ALL CONDUCTORS MUST BE PROTECTED FROM ACCESS BY A FENCE OR SUITABLE COVER, OR OUT OF REACH. (F) PROPERTY LINES, BOUNDARIES AND ALL OTHER EXTERIOR MEASUREMENTS ARE FOR REFERENCE ONLY, AND MUST BE VERIFIED BY A LICENSED SURVEYOR OR CIVIL ENGINEER. (G) NO PVC ALLOWED ON ROOF OR IN ATTIC. (H) MC4 CONNECTORS MAY NOT BE JOINED WITH 'MC4 COMPATIBLE' CONNECTORS. (I) TAP CONNECTIONS IN PANEL MUST NOT VIOLATE CONDITIONS OF ACCEPTABILITY FROM PANEL MANUFACTURER'S NRTL LISTING, OR FIELD LABEL REQUIRED. (J) PV WIRES MAY NOT BE LAID DIRECTLY ON ROOF. (K) TY WRAPS FOR WIRE MANAGEMENT MUST BE STRUCTURAL (S21) UL APPROVED, OR EQUAL. (L) DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. -CONDUIT ROUTING, WHEN INDICATED, DOES NOT SHOW ALL OFFSETS, DROPS, AND RISES OF RUNS. (M) BURIED CONDUITS UNDER AREAS SUBJECT TO VEHICLE TRAFFIC REQUIRE MIN 24" COVER. (N) NM-B OR PAPER INSULATED CONDUCTORS MAY NOT BE USED EXTERIOR. (O) THE DEVELOPER IS REQUIRED TO CONFIRM EXISTING ELECTRICAL SERVICE SIZE FROM THE UTILITY, AND MAY NOT RELY SOLELY ON EXISTING BREAKER SIZES. (P) CONNECTING TO UTILITY EQUIPMENT REQUIRES PRIOR UTILITY CONSENT. (Q) WHEN BUILDING PV SYSTEMS WITH POWER LINE COMMUNICATIONS FOR RSD SOLUTIONS, FOLLOWING MANUFACTURERS INSTRUCTIONS ON CONDUCTOR AND CONDUIT SPACING IS PARAMOUNT, OR HAZARD MAY RESULT. (R) NOTIFY ELECTRICAL ENGINEER WHO'S SEAL IS ON THIS DRAWING PRIOR TO ANY AND ALL CHANGES IN DESIGN. (S) PROJECT RELATED SIGNAL/COMMUNICATION CONDUCTORS MAY ONLY BE RUN IN THE SAME CONDUIT WITH POWER CONDUCTORS IF THEIR RATING FOR THE OUTER MOST JACKET IS EQUAL TO OR GREATER THAN THE INSULATION REQUIRED FOR THE HIGHEST VOLTAGE POWER CONDUCTOR CIRCUIT THAT THEY ARE SHARING THE RESPECTIVE CONDUIT WITH.

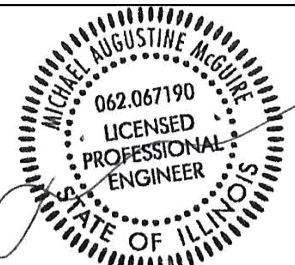


SOURCE SOLAR LLC

115 SOUTHGATE AVE IOWA
CITY, IA 52240
PHONE (+1)(319) 465-9907

REVISIONS

DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



sealed 11jun2024 mike@h2dc.com
H2DC PLLC IL S&P#: 184007659-0002
ELECTRICAL ONLY
- NOT AN AS-BUILT DRAWING SET -

PROJECT NAME & ADDRESS

**RICHARD LUCKOW
RESIDENCE**
332 E WASHINGTON ST,
WEST CHICAGO, IL 60185

DRAWN BY

ESR

SHEET NAME

WIRING CALCULATIONS

SHEET SIZE

**ANSI B
11" X 17"**

SHEET NUMBER

PV-6

ELECTRICAL NOTES

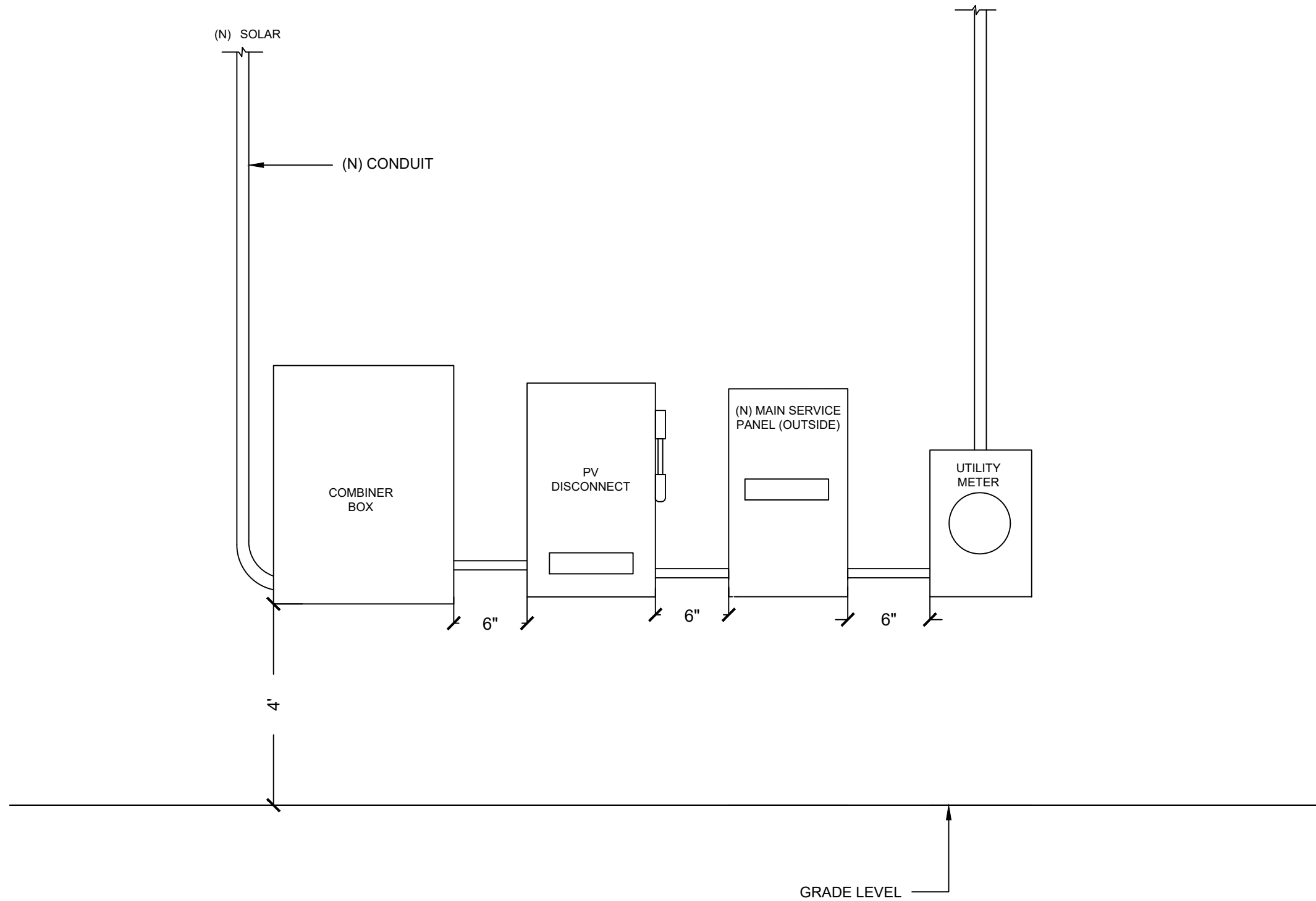
- ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSKO GBL-4DBT LAY-IN LUG.
- TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.
- CONDUIT INSTALLED AT MINIMUM DISTANCE OF 7/8 INCHES ABOVE ROOFNEC 310.15(B)(3)(C)

DIMENSION LEGEND

MAIN SERVICE PANEL - 29.75" X 14.25" X 3.75"

ENPHASE AC COMBINER - 19.5" X 21.06" X 6.63"

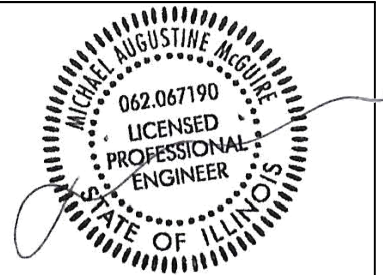
PV AC DISCONNECT - 7.75" X 9.63" X 3.75"



SOURCE SOLAR LLC

115 SOUTHGATE AVE IOWA
CITY, IA 52240
PHONE (+1)(319) 465-9907

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



sealed 11jun2024 mike@h2dc.com
H2DC PLLC IL S&P#: 184007659-0002
ELECTRICAL ONLY
- NOT AN AS-BUILT DRAWING SET -

PROJECT NAME & ADDRESS

RICHARD LUCKOW
RESIDENCE
332 E WASHINGTON ST,
WEST CHICAGO, IL 60185

DRAWN BY

ESR

SHEET NAME

ELEVATION DETAIL

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-7

1 | PROPOSED EQUIPMENT LOCATION

PV-7

SCALE: N.T.S.

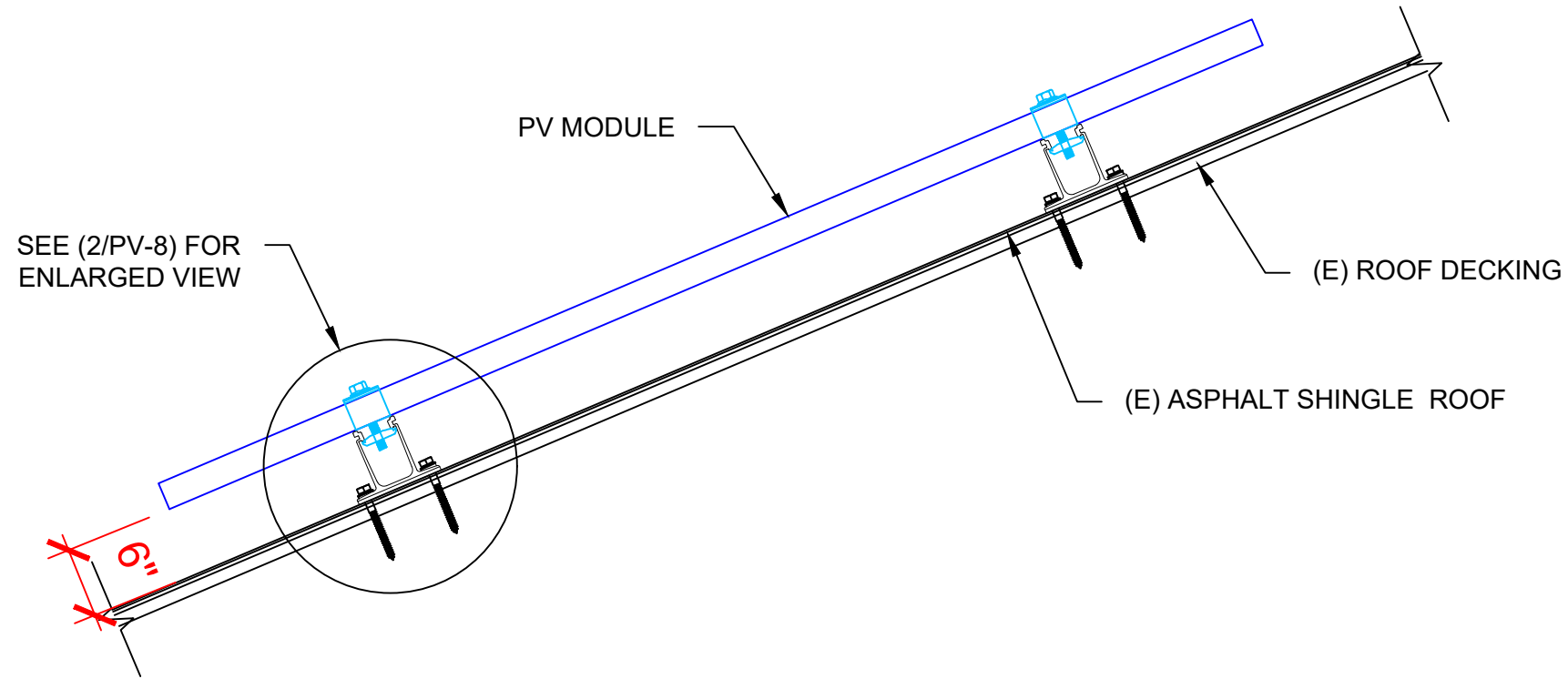


SOURCE SOLAR LLC

115 SOUTHGATE AVE IOWA
CITY, IA 52240
PHONE (+1)(319) 465-9907

REVISIONS

DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	

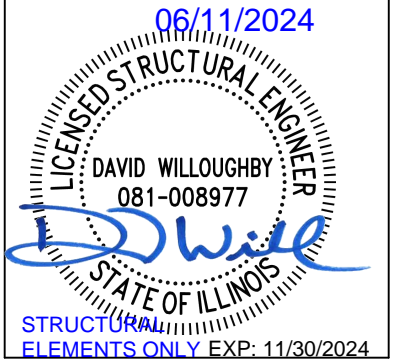


SEE (2/PV-8) FOR ENLARGED VIEW

1 ATTACHMENT DETAIL (SIDE VIEW)

PV-8

SCALE: N.T.S.



STRUCTURAL ELEMENTS ONLY EXP: 11/30/2024

PROJECT NAME & ADDRESS

**RICHARD LUCKOW
RESIDENCE**
332 E WASHINGTON ST,
WEST CHICAGO, IL 60185

DRAWN BY

ESR

SHEET NAME

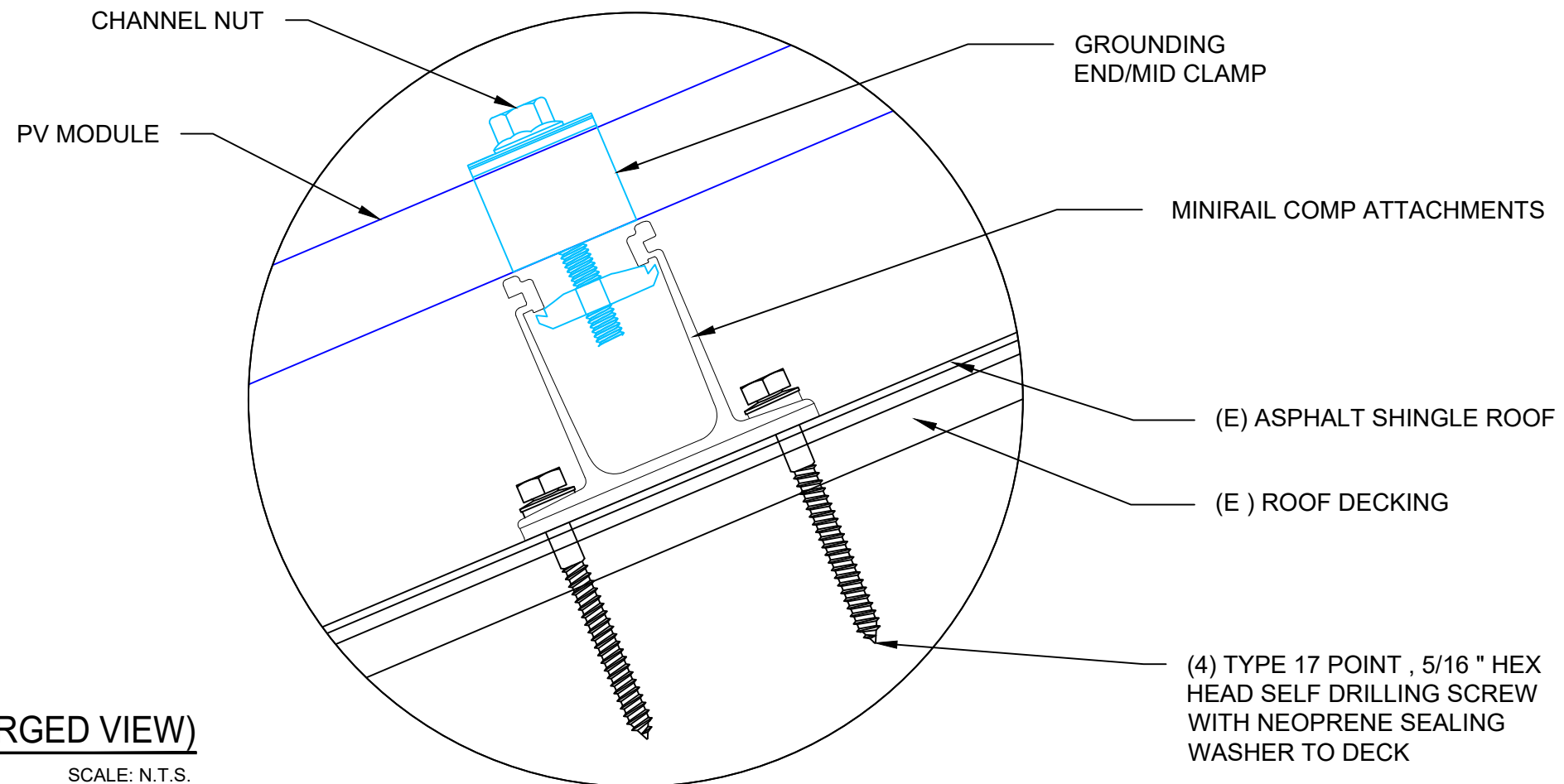
STRUCTURAL DETAIL

SHEET SIZE

**ANSI B
11" X 17"**

SHEET NUMBER

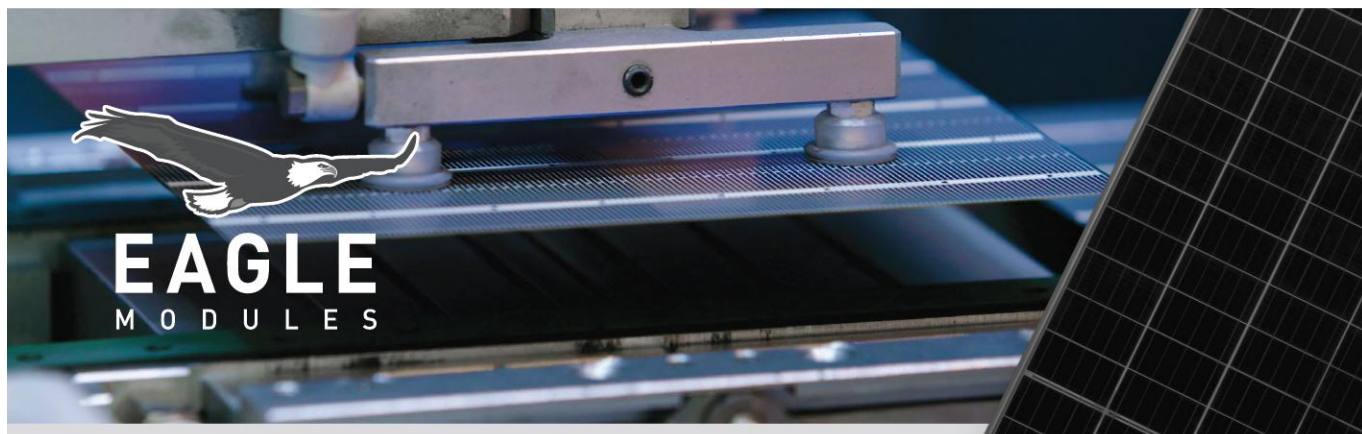
PV-8



2 ATTACHMENT DETAIL (ENLARGED VIEW)

PV-8

SCALE: N.T.S.



EAGLE CONTINENTAL

380-400 WATT • MONO PERC HALF-CELL MODULE

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 module factory in Jacksonville, Florida

KEY FEATURES

- Superior Aesthetics**
Black backsheet and black frame create ideal look for residential applications.
- Diamond Half-Cell Technology**
World-record breaking efficient mono PERC half-cells deliver high power in a small footprint.
- 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**
12-year product and 25-year linear power warranty.

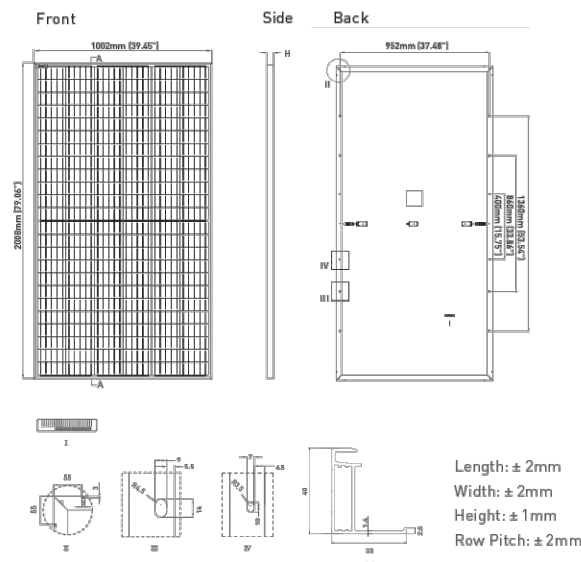
ASSEMBLED IN THE USA
From foreign components

- ISO9001:2008 Quality Standards
- ISO14001:2004 Environmental Standards
- IEC61215, IEC61730 certified
- ISO 45001 2018 Occupational Health & Safety Standards
- UL1703/61730 certified

BUILDING YOUR TRUST IN SOLAR. WWW.JINKOSOLAR.US



ENGINEERING DRAWINGS



MECHANICAL CHARACTERISTICS

Cells	Mono PERC Diamond Cell (158.75 x 158.75mm)
No. of Half Cells	144 (6 x 24)
Dimensions	2008 x 1002 x 40mm (79.06 x 39.45 x 1.57in)
Weight	22.5kg (49.6lbs)
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)
Connector	Staubli MC4 Series
Fire Type	Type 1
Pressure Rating	5400Pa (Snow) & 2400Pa (Wind)
Hailstone Test	50mm Hailstones at 35m/s

TEMPERATURE CHARACTERISTICS

Temperature Coefficients of Pmax	-0.35%/°C
Temperature Coefficients of Voc	-0.29%/°C
Temperature Coefficients of Isc	0.048%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

MAXIMUM RATINGS

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage	1500VDC (UL and IEC)
Maximum Series Fuse Rating	20A

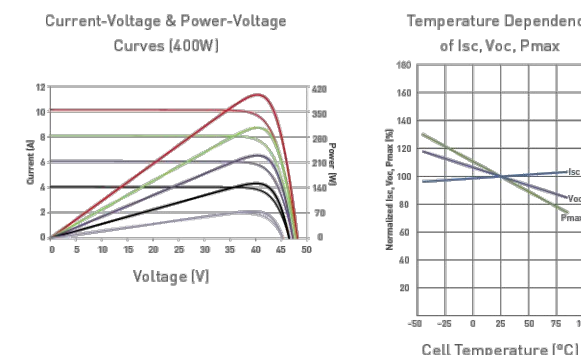
PACKAGING CONFIGURATION

(Two pallets = One stack)
27pcs/pallet, 54pcs/stack, 594pcs/40'HQ Container

WARRANTY

12-year product and 25-year linear power warranty
1st year degradation not to exceed 2.5%, each subsequent year not to exceed 0.6%, minimum power at year 25 is 83.1% or greater.

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



ELECTRICAL CHARACTERISTICS

Module Type	JKM380M-72HBL-V		JKM385M-72HBL-V		JKM390M-72HBL-V		JKM395M-72HBL-V		JKM400M-72HBL-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	380Wp	280Wp	385Wp	283Wp	390Wp	287Wp	395Wp	291Wp	400Wp	294Wp
Maximum Power Voltage (Vmp)	39.10V	36.5V	39.37V	36.8V	39.64V	37.0V	39.90V	37.4V	40.16V	37.6V
Maximum Power Current (Imp)	9.72A	7.67A	9.78A	7.71A	9.84A	7.75A	9.90A	7.77A	9.96A	7.82A
Open-circuit Voltage (Voc)	48.2V	45.4V	48.4V	45.6V	48.6V	45.8V	48.8V	46.0V	49.1V	46.2V
Short-circuit Current (Isc)	10.30A	8.32A	10.38A	8.38A	10.46A	8.45A	10.54A	8.51A	10.61A	8.57A
Module Efficiency STC (%)	18.89%		19.13%		19.38%		19.63%		19.88%	

*STC: ☀ Irradiance 1000W/m² 🌡 Cell Temperature 25°C
 NOCT: ☀ Irradiance 800W/m² 🌡 Ambient Temperature 20°C
 ☁ AM = 1.5 🌬 Wind Speed 1m/s
 *Power measurement tolerance: ±3%

The company reserves the final right for explanation on any of the information presented hereby. JKM380-400M-72HBL-V-F1-US

BUILDING YOUR TRUST IN SOLAR. WWW.JINKOSOLAR.US



SOURCE SOLAR LLC
115 SOUTHGATE AVE IOWA
CITY, IA 52240
PHONE (+1)(319) 465-9907

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



PROJECT NAME & ADDRESS
**RICHARD LUCKOW
RESIDENCE**
332 E WASHINGTON ST,
WEST CHICAGO, IL 60185

DRAWN BY
ESR

SHEET NAME
**MODULE
DATASHEET**

SHEET SIZE
**ANSI B
11" X 17"**

SHEET NUMBER
PV-9



IQ8 and IQ8+ Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC), which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built using advanced 55-nm technology with high-speed digital logic and has superfast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the IQ Battery, IQ Gateway, and the Enphase App monitoring and analysis software.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-and-play MC4 connectors.



IQ8 Series Microinverters are UL Listed as PV rapid shutdown equipment and conform with various regulations, when installed according to the manufacturer's instructions.

Easy to install

- Lightweight and compact with plug-and-play connectors
- Power line communication (PLC) between components
- Faster installation with simple two-wire cabling

High productivity and reliability

- Produce power even when the grid is down*
- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest high-powered PV modules

Microgrid-forming

- Compliant with the latest advanced grid support**
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meet CA Rule 21 (UL 1741-SA) and IEEE® 1547:2018 (UL 1741-SB 3rd Ed.)

NOTE:

- IQ8 Microinverters cannot be mixed with previous generations of Enphase microinverters (IQ7 Series, IQ9 Series, and so on) in the same system.
- IQ Gateway is required to change the default grid profile at the time of installation to meet local Authority Having Jurisdiction (AHJ) requirements.

DATA SHEET

IQ8 and IQ8+ Microinverters

INPUT DATA (DC)	UNITS	IQ8-60-2-US	IQ8PLUS-72-2-US
Commonly used module pairings ¹	W	235-350	235-440
Module compatibility	—	To meet compatibility, PV modules must be within maximum input DC voltage and maximum module I _{sc} listed below. Module compatibility can be checked at https://enphase.com/installers/microinverters/calculator	
MPPT voltage range	V	27-37	27-45
Operating range	V	16-48	16-58
Minimum/Maximum start voltage	V	22/48	22/58
Maximum input DC voltage	V	50	60
Maximum continuous input DC current	A	10	12
Maximum input DC short-circuit current	A	25	
Maximum module I _{sc}	A	20	
Oversvoltage class DC port	—	II	
DC port backfeed current	mA	0	
PV array configuration	—	1=1 ungrounded array; no additional DC side protection required; AC side protection requires maximum 20 A per branch circuit.	
OUTPUT DATA (AC)	UNITS	IQ8-60-2-US	IQ8PLUS-72-2-US
Peak output power	VA	245	300
Maximum continuous output power	VA	240	290
Nominal grid voltage (L-L)	V	240, split-phase (L-L), 180 ^o	
Minimum and Maximum grid voltage ²	V	211-264	
Maximum continuous output current	A	1.0	1.21
Nominal frequency	Hz	60	
Extended frequency range	Hz	47-68	
AC short-circuit fault current over three cycles	Amps	2	
Maximum units per 20 A (L-L) branch circuit ³	—	16	13
Total harmonic distortion	%	<5	
Oversvoltage class AC port	—	II	
AC port backfeed current	mA	30	
Power factor setting	—	1.0	
Grid-tied power factor (adjustable)	—	0.85 leading ... 0.85 lagging	
Peak efficiency	%	97.7	
CEC weighted efficiency	%	97	
Night time power consumption	mW	23	25
MECHANICAL DATA			
Ambient temperature range	-40°C to 80°C (-40°F to 140°F)		
Relative humidity range	4% to 100% (condensing)		
DC connector type	MC4		
Dimensions (H x W x D)	212 mm (8.3 in) x 175 mm (6.9 in) x 30.2 mm (1.2 in)		
Weight	1.08 kg (2.38 lbs)		
Cooling	Natural convection-no fans		
Approved for wet locations	Yes		
Pollution degree	PD3		
Enclosure	Class II double-insulated, corrosion-resistant polymeric enclosure		
Environmental category/UV exposure rating	NEMA Type 6/Outdoor		

¹ No inverter DC AC ratio.
² Nominal voltage ranges can be extended beyond nominal if required by the utility.
³ Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

IQ8SP-12A-DSH-00207-2.0-EN-US-2023-10-15

IQ8 and IQ8+ Microinverters

COMPLIANCE	CA Rule 21 (UL 1741-SA), UL 62109-1, IEEE® 1547:2018 (UL 1741-SB 3 rd Ed.), FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 1071-01 This product is UL Listed as PV rapid shutdown equipment and conforms with NEC 2014, NEC 2017, NEC 2020, and NEC 2023 section 690.12 and C221-2016 Rule 64-218 rapid shutdown of PV Systems, for AC and DC conductors, when installed according to the manufacturer's instructions.
Certifications	



SOURCE SOLAR LLC
 115 SOUTHGATE AVE IOWA
 CITY, IA 52240
 PHONE (+1)(319) 465-9907

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



PROJECT NAME & ADDRESS

**RICHARD LUCKOW
 RESIDENCE**
 332 E WASHINGTON ST,
 WEST CHICAGO, IL 60185

DRAWN BY
ESR

SHEET NAME
**MICRO INVERTER
 DATASHEET**

SHEET SIZE
**ANSI B
 11" X 17"**

SHEET NUMBER
PV-10

*Meets UL 1741 only when installed with IQ System Controller 2.
 **IQ8 and IQ8+ support split-phase, 240 V installations only.

Enphase IQ Combiner 4/4C

X-IQ-AM1-240-4
X-IQ-AM1-240-4C



X-IQ-AM1-240-4C

X-IQ-AM1-240-4

The **Enphase IQ Combiner 4/4C** with Enphase IQ Gateway and integrated LTE-M1 cell modem (included only with IQ Combiner 4C) consolidates interconnection equipment into a single enclosure and streamlines IQ microinverters and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly.

Smart

- Includes IQ Gateway for communication and control
- Includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), included only with IQ Combiner 4C
- Includes solar shield to match Enphase IQ Battery aesthetics and deflect heat
- Flexible networking supports Wi-Fi, Ethernet, or cellular
- Optional AC receptacle available for PLC bridge
- Provides production metering and consumption monitoring

Simple

- Centered mounting brackets support single stud mounting
- Supports bottom, back and side conduit entry
- Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- 80A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- Five-year limited warranty
- Two years labor reimbursement program coverage included for both the IQ Combiner SKU's
- UL listed

Enphase IQ Combiner 4/4C

MODEL NUMBER	
IQ Combiner 4 (X-IQ-AM1-240-4)	IQ Combiner 4 with Enphase IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 +/- 0.5%) and consumption monitoring (+/- 2.5%). Includes a silver solar shield to match the IQ Battery system and IQ System Controller 2 and to deflect heat.
IQ Combiner 4C (X-IQ-AM1-240-4C)	IQ Combiner 4C with Enphase IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 +/- 0.5%) and consumption monitoring (+/- 2.5%). Includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), a plug-and-play industrial-grade cell modem for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.) Includes a silver solar shield to match the IQ Battery and IQ System Controller and to deflect heat.
ACCESSORIES AND REPLACEMENT PARTS (not included, order separately)	
Ensemble Communications Kit COMMS-CELLMODEM-M1-06 CELLMODEM-M1-06-SP-05 CELLMODEM-M1-06-AT-05	- Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with 5-year Sprint data plan for Ensemble sites - 4G based LTE-M1 cellular modem with 5-year Sprint data plan - 4G based LTE-M1 cellular modem with 5-year AT&T data plan
Circuit Breakers BRK-10A-2-240V BRK-15A-2-240V BRK-20A-2P-240V BRK-15A-2P-240V-B BRK-20A-2P-240V-B	Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2 pole, 10A, Eaton BR210 Circuit breaker, 2 pole, 15A, Eaton BR215 Circuit breaker, 2 pole, 20A, Eaton BR220 Circuit breaker, 2 pole, 15A, Eaton BR215B with hold down kit support Circuit breaker, 2 pole, 20A, Eaton BR220B with hold down kit support
EPLC-01	Power line carrier (communication bridge pair), quantity - one pair
XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 4/4C
XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 4/4C (required for EPLC-01)
XA-ENV-PCBA-3	Replacement IQ Gateway printed circuit board (PCB) for Combiner 4/4C
X-IQ-NA-HD-125A	Hold down kit for Eaton circuit breaker with screws.
ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240 VAC, 60 Hz
Eaton BR series busbar rating	125 A
Max. continuous current rating	65 A
Max. continuous current rating (input from PV/storage)	64 A
Max. fuse/circuit rating (output)	90 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max. total branch circuit breaker rating (input)	80A of distributed generation / 95A with IQ Gateway breaker included
Production metering CT	200 A solid core pre-installed and wired to IQ Gateway
Consumption monitoring CT (CT-200-SPLIT)	A pair of 200 A split core current transformers
MECHANICAL DATA	
Dimensions (WxHxD)	37.5 x 49.5 x 16.8 cm (14.75" x 19.5" x 6.63"). Height is 21.06" (53.5 cm) with mounting brackets.
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40° C to +46° C (-40° to 115° F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	• 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors • 60 A breaker branch input: 4 to 1/0 AWG copper conductors • Main lug combined output: 10 to 2/0 AWG copper conductors • Neutral and ground: 14 to 1/0 copper conductors Always follow local code requirements for conductor sizing.
Altitude	To 2000 meters (6,560 feet)
INTERNET CONNECTION OPTIONS	
Integrated Wi-Fi	802.11b/g/n
Cellular	CELLMODEM-M1-06-SP-05, CELLMODEM-M1-06-AT-05 (4G based LTE-M1 cellular modem). Note that an Enphase Mobile Connect cellular modem is required for all Ensemble installations.
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)
COMPLIANCE	
Compliance, IQ Combiner	UL 1741, CAN/CSA C22.2 No. 107.1, 47 CFR, Part 15, Class B, ICES 003 Production metering: ANSI C12.20 accuracy class 0.5 (PV production) Consumption metering: accuracy class 2.5
Compliance, IQ Gateway	UL 60601-1/CANCSA 22.2 No. 61010-1

To learn more about Enphase offerings, visit enphase.com

© 2021 Enphase Energy. All rights reserved. Enphase, the Enphase logo, IQ Combiner 4/4C, and other names are trademarks of Enphase Energy, Inc. Data subject to change. 10-21-2021



SOURCE SOLAR LLC

115 SOUTHGATE AVE IOWA
CITY, IA 52240
PHONE (+1)(319) 465-9907

REVISIONS

DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	

PROJECT NAME & ADDRESS

RICHARD LUCKOW
RESIDENCE
332 E WASHINGTON ST,
WEST CHICAGO, IL 60185

DRAWN BY

ESR

SHEET NAME
COMBINER BOX
DATASHEET

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-11



To learn more about Enphase offerings, visit enphase.com



MiniRail Comp

DATA SHEET



PRODUCT FEATURES



- / 5" Minirail design eliminates long extruded rails
- / Kitted with 4 screws for deck attachment option
- / Can also be installed into rafter using only 2 screws
- / Self-tapping and self-sealing screws included
- / Compatible with standard K2 Mid and End Clamps
- / Low profile to the roof

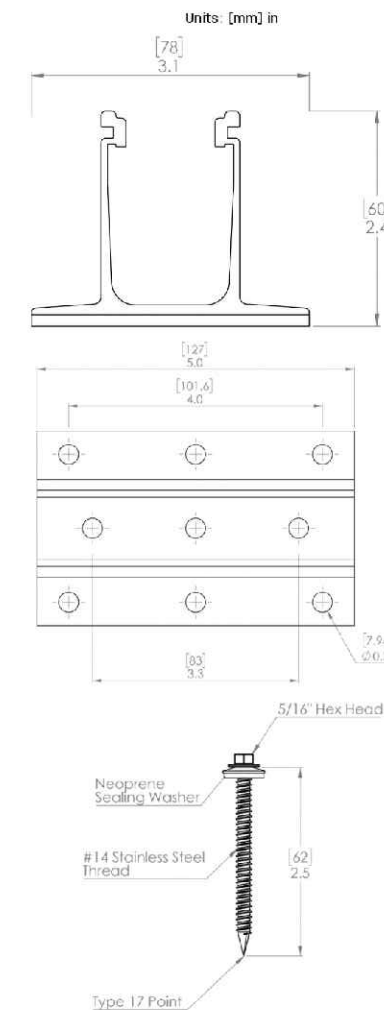
TECHNICAL DATA

	MiniRail Comp
Roof Type	Composition shingle
Material	High grade aluminum, high corrosion resistance stainless steel screws
Flexibility	Modular construction, suitable for any system size, height adjustable
PV Modules	For all common module types
Module Orientation	Portrait and landscape
Roof Connection	Self-drilling screw to rafter or deck
Certifications	UL 2703, ASCE 7-16, TAS 100(A) Wind Driven Rain
Warranty	25 years

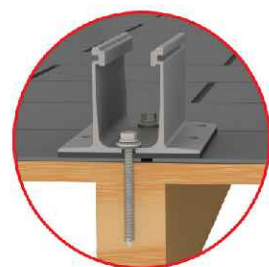
2



DIMENSIONS



3

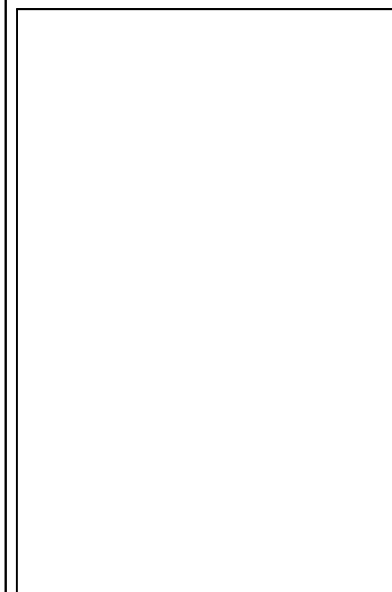


- Pre-assembled with K2 EverSeal butyl
- / Self-adheres to roof saving hours on the job
- / No additional sealant needed
- / Water submergence tested
- / Accelerated age/weather tested



SOURCE SOLAR LLC
 115 SOUTHGATE AVE IOWA
 CITY, IA 52240
 PHONE (+1)(319) 465-9907

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



PROJECT NAME & ADDRESS

**RICHARD LUCKOW
 RESIDENCE**
 332 E WASHINGTON ST,
 WEST CHICAGO, IL 60185

DRAWN BY
ESR

SHEET NAME
**ATTACHMENT
 DATASHEET**

SHEET SIZE
**ANSI B
 11" X 17"**

SHEET NUMBER
PV-12



THE ULTIMATE ROOFTOP JUNCTION BOX

EZ Solar believes innovation is key to making Solar Simple! The most revolutionary junction box on the market just got better! Designed with the installer in mind, the **JB-1.2** makes installation fast and easy!



SIMPLE TO INSTALL

- Minimal Shingle Cutting
- Enter Through 3 Sidewalls
- Wider and Taller Sidewalls



HIGH QUALITY

- Made from advanced durable polycarbonate + superior components, UL1741, Nema 3R, CSA C22.2 No. 290
- 3 patented layers of water protection
- 2 Weep Holes for breathability



LOWER PRICE

- We believe that EVERYONE should have access to affordable renewable energy
- With the same great features as the JB-1, the JB-1.2 is now available with updates to make installation even easier.



A. System Specifications and Ratings

- Maximum Voltage: 1,000 Volts
- Maximum Current: **JB-1.2:** 80 Amps; **JB-1.XL:** 120 Amps
- Allowable Wire: 14 AWG – 6 AWG
- Spacing: Please maintain a spacing of at least ½” between uninsulated live parts and fittings for conduit, armored cable, and uninsulated live parts of opposite polarity.
- Enclosure Rating: Type 3R
- Roof Slope Range: 2.5 – 12:12
- Max Side Wall Fitting Size: 1”
- Max Floor Pass-Through Fitting Size: 1”
- Ambient Operating Conditions: (-35°C) - (+75°C)
- Compliance:
 - **JB-1.2:** UL1741, CSA C22.2 No. 290; **JB-1.XL:** UL1741, CSA C22.2 No. 290
 - Approved wire connectors: must conform to UL1741, CSA C22.2 No. 290
- System Marking: **Interek Symbol and File #5019942**
- Periodic Re-inspections: If re-inspections yield loose components, loose fasteners, or any corrosion between components, components that are found to be affected are to be replaced immediately.



Table 1: Typical Wire Size, Torque Loads and Ratings

	1 Conductor	2 Conductor	Torque				
			Type	NM	Inch Lbs	Voltage	Current
ABB ZS6 terminal block	10-24 awg	16-24 awg	Sol/Str	0.5-0.7	6.2-8.85	600V	30 amp
ABB ZS10 terminal block	6-24 awg	12-20 awg	Sol/Str	1.0-1.6	8.85-14.16	600V	40 amp
ABB ZS16 terminal block	4-24 awg	10-20 awg	Sol/Str	1.6-2.4	14.6-21.24	600V	60 amp
ABB M6/8 terminal block	8-22 awg		Sol/Str	.08-1	8.85	600V	50 amp
Ideal 452 Red <small>WING-NUT W/ Connector</small>	8-18 awg		Sol/Str	Self-Torque	Self-Torque	600V	
Ideal 451 Yellow <small>WING-NUT W/ Connector</small>	10-18 awg		Sol/Str	Self-Torque	Self-Torque	600V	
Ideal, In-Sure <small>2-1/2" H Connector 2.1-09</small>	10-14 awg		Sol/Str	Self-Torque	Self-Torque	600V	
WAGO, 2204-1201	10-20 awg	16-24 awg	Sol/Str	Self-Torque	Self-Torque	600V	30 amp
WAGO, 221-612	10-20 awg	10-24 awg	Sol/Str	Self-Torque	Self-Torque	600V	30 amp
Dottie DRC75	6-12 awg		Sol/Str	Snap-in	Snap-in		
ESP NG-53	4-6 awg		Sol/Str		45	2000V	
	10-14 awg		Sol/Str		35		
ESP NG-717	4-6 awg		Sol/Str		45	2000V	
	10-14 awg		Sol/Str		35		
Brumall 4-5,3	4-6 awg		Sol/Str		45	2000V	
	10-14 awg		Sol/Str		35		

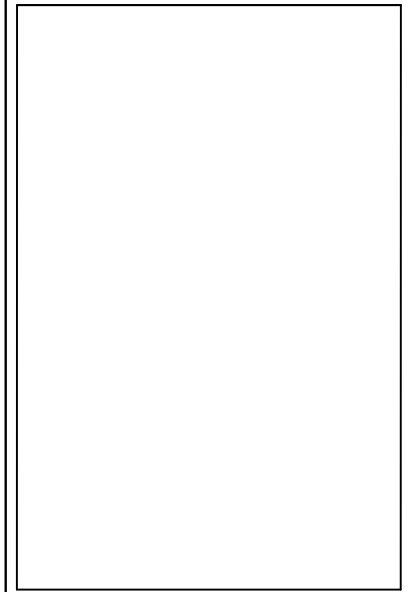
Table 2: Minimum wire-bending space for conductors through a wall opposite terminals in mm (Inches)

Wire size, AWG or kcmil (mm2)	Wires per terminal (pole)			
	1 mm (inch)	2 mm (inch)	3 mm (inch)	4 or More mm (inch)
14-10 (2.1-5.3)	Not Specified	-	-	-
8 (8.4)	38.1 (1-1/2)	-	-	-
6 (13.3)	50.8 (2)	-	-	-



SOURCE SOLAR LLC
115 SOUTHGATE AVE IOWA
CITY, IA 52240
PHONE (+1)(319) 465-9907

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



PROJECT NAME & ADDRESS

**RICHARD LUCKOW
RESIDENCE**
332 E WASHINGTON ST,
WEST CHICAGO, IL 60185

DRAWN BY
ESR

SHEET NAME
**JUNCTION BOX
DATASHEET**

SHEET SIZE
**ANSI B
11" X 17"**

SHEET NUMBER
PV-13

**CAUTION:
AUTHORIZED SOLAR
PERSONNEL ONLY!**

LABEL-1:
LABEL LOCATION:
AC DISCONNECT

WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY
BE ENERGIZED IN THE OPEN POSITION

LABEL- 2:
LABEL LOCATION:
AC DISCONNECT
COMBINER
MAIN SERVICE PANEL
SUBPANEL
MAIN SERVICE DISCONNECT
CODE REF: NEC 690.13(B)

**WARNING DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM**

LABEL- 3:
LABEL LOCATION:
UTILITY METER
MAIN SERVICE PANEL
SUBPANEL
CODE REF: NEC 705.12(C) & NEC 690.59

WARNING
**TURN OFF PHOTOVOLTAIC AC
DISCONNECT PRIOR TO
WORKING INSIDE PANEL**

LABEL- 4:
LABEL LOCATION:
MAIN SERVICE PANEL
SUBPANEL
MAIN SERVICE DISCONNECT
COMBINER
CODE REF: NEC 110.27(C) & OSHA 1910.145 (f) (7)

CAUTION
**PHOTOVOLTAIC SYSTEM CIRCUIT IS
BACKFEED**

LABEL- 5:
LABEL LOCATION:
MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED)
SUBPANEL (ONLY IF SOLAR IS BACK-FED)
CODE REF: NEC 705.12(B)(3-4) & NEC 690.59

WARNING
**POWER SOURCE OUTPUT
CONNECTION. DO NOT
RELOCATE THIS
OVERCURRENT DEVICE**

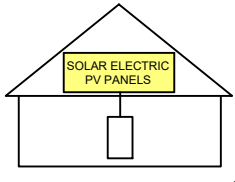
LABEL- 6:
LABEL LOCATION:
MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED)
SUBPANEL (ONLY IF SOLAR IS BACK-FED)
CODE REF: NEC 705.12(B)(3)(2)

WARNING
**THIS EQUIPMENT FED BY
MULTIPLE SOURCES. TOTAL
RATING OF ALL OVERCURRENT
DEVICES EXCLUDING MAIN
SUPPLY OVERCURRENT DEVICE
SHALL NOT EXCEED AMPACITY
OF BUSBAR.**

LABEL- 7:
LABEL LOCATION:
MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED)
SUBPANEL (ONLY IF SOLAR IS BACK-FED)
CODE REF: NEC 705.12(B)(3)(2)

**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



LABEL- 8:
LABEL LOCATION:
AC DISCONNECT
CODE REF: NEC 690.56(C)

**RAPID SHUTDOWN SWITCH
FOR SOLAR PV SYSTEM**

LABEL- 9:
LABEL LOCATION:
AC DISCONNECT
CODE REF: NEC 690.56(C)(2)

PHOTOVOLTAIC
AC DISCONNECT

LABEL- 10:
LABEL LOCATION:
AC DISCONNECT
CODE REF: NEC 690.13(B)

**PHOTOVOLTAIC
AC DISCONNECT**

NOMINAL OPERATING AC VOLATGE **240 V**
RATED AC OUTPUT CURRENT **22.99 A**

LABEL- 11:
LABEL LOCATION:
MAIN SERVICE PANEL
SUBPANEL
AC DISCONNECT
CODE REF: NEC 690.54

**MAIN PHOTOVOLTAIC
SYSTEM DISCONNECT**

LABEL- 12:
LABEL LOCATION:
MAIN SERVICE DISCONNECT (ONLY IF MAIN SERVICE DISCONNECT IS PRESENT)
CODE REF: NEC 690.13(B)

CAUTION
**POWER TO THIS SERVICE IS
ALSO SUPPLIED FROM ON-SITE
SOLAR/WIND GENERATION**
AC SYSTEM DISCONNECT

LABEL-13:
LABEL LOCATION:
AC DISCONNECT

CAUTION
**ALTERNATIVE POWER SUPPLY
AC SYSTEM DISCONNECT**

LABEL-14:
LABEL LOCATION:
AC DISCONNECT

SOURCE SOLAR LLC
EMERGENCY CONTACT
(+1)(319) 465-9907

LABEL- 15:
LABEL LOCATION:
MAIN SERVICE DISCONNECT
CODE REF: NFPA 1 (11.12.2.1.5)

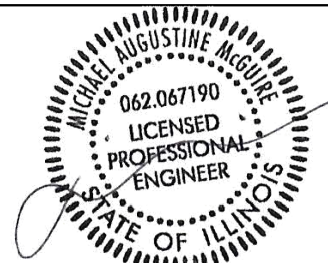
WARNING
ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE & LOAD SIDES
MAY BE ENERGIZED IN OPEN POSITION
DO NOT DISCONNECT FUSES UNDER LOAD
THE DC CONDUCTORS OF THIS
PHOTOVOLTAIC SYSTEM ARE
UNGROUND AND MAY BE ENERGIZED
PHOTOVOLTAIC SYSTEM
DC DISCONNECT
AUTHORIZED PERSONNEL ONLY

Note: WARNING labels must resemble format
in example above with over-sized WARNING,
exclamation point in triangle, colors, etc.



SOURCE SOLAR LLC
115 SOUTHGATE AVE IOWA
CITY, IA 52240
PHONE (+1)(319) 465-9907

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



sealed 11jun2024 mike@h2dc.com
H2DC PLLC IL S&P#: 184007659-0002
ELECTRICAL ONLY
- NOT AN AS-BUILT DRAWING SET -

PROJECT NAME & ADDRESS
**RICHARD LUCKOW
RESIDENCE**
332 E WASHINGTON ST,
WEST CHICAGO, IL 60185

DRAWN BY
ESR

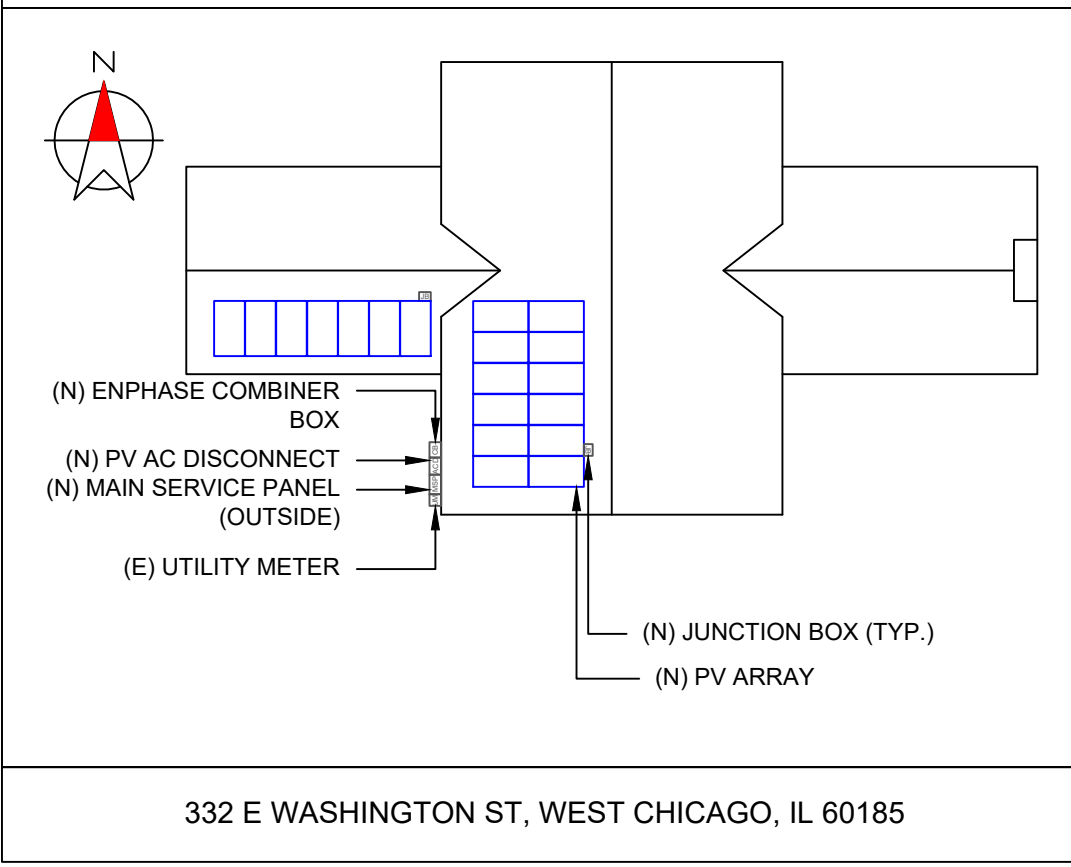
SHEET NAME
LABELS

SHEET SIZE
**ANSI B
11" X 17"**

SHEET NUMBER
PV-14

CAUTION

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM MULTIPLE SOURCES OF POWER WITH SAFETY DISCONNECTS AS SHOWN:



DIRECTORY

PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM.

(ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS OUTLINED WITHIN: NEC 690.56(A)&(B), [NEC 705.10])

LABELING NOTES:

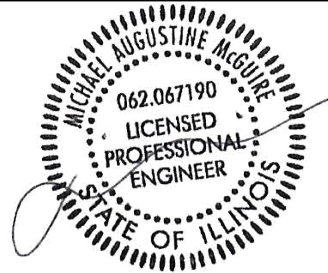
1. LABELS CALLED OUT ACCORDING TO ALL COMMON CONFIGURATIONS. ELECTRICIAN TO DETERMINE EXACT REQUIREMENTS IN THE FIELD PER CURRENT NEC AND LOCAL CODES AND MAKE APPROPRIATE ADJUSTMENTS.
2. LABELING REQUIREMENTS BASED ON THE 2014 NATIONAL ELECTRIC CODE, OSHA STANDARD 19010.145, ANSI Z535.
3. MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
4. LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED [NEC 110.21]
5. LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8", WHITE ON RED BACKGROUND; REFLECTIVE, AND PERMANENTLY



SOURCE SOLAR LLC

115 SOUTHGATE AVE IOWA
 CITY, IA 52240
 PHONE (+1)(319) 465-9907

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/04/2024	



sealed 11jun2024 mike@h2dc.com
 H2DC PLLC IL S&P#: 184007659-0002
 ELECTRICAL ONLY
 - NOT AN AS-BUILT DRAWING SET -

PROJECT NAME & ADDRESS

RICHARD LUCKOW
 RESIDENCE
 332 E WASHINGTON ST,
 WEST CHICAGO, IL 60185

DRAWN BY

ESR

SHEET NAME

PLACARD

SHEET SIZE

ANSI B
 11" X 17"

SHEET NUMBER

PV-15

From Center Street looking towards rear of house



From alleyway looking at rear of house where solar panels will be mounted



From Washington Street looking towards side of house



From Center Street looking at rear of house



From Washington Street looking at front of house



From Garden Street looking at front of house



CITY OF WEST CHICAGO

HISTORICAL PRESERVATION COMMISSION AGENDA ITEM SUMMARY

ITEM TITLE:

Rear Entry Façade
102 Main Street
Oscar Munoz

C.O.A. # 24-10

AGENDA ITEM NUMBER: 3 B.**COMMISSION AGENDA DATE:** 06-25-24**STAFF REVIEW:** John Sterrett, City Planner**SIGNATURE** _____**ITEM SUMMARY:**

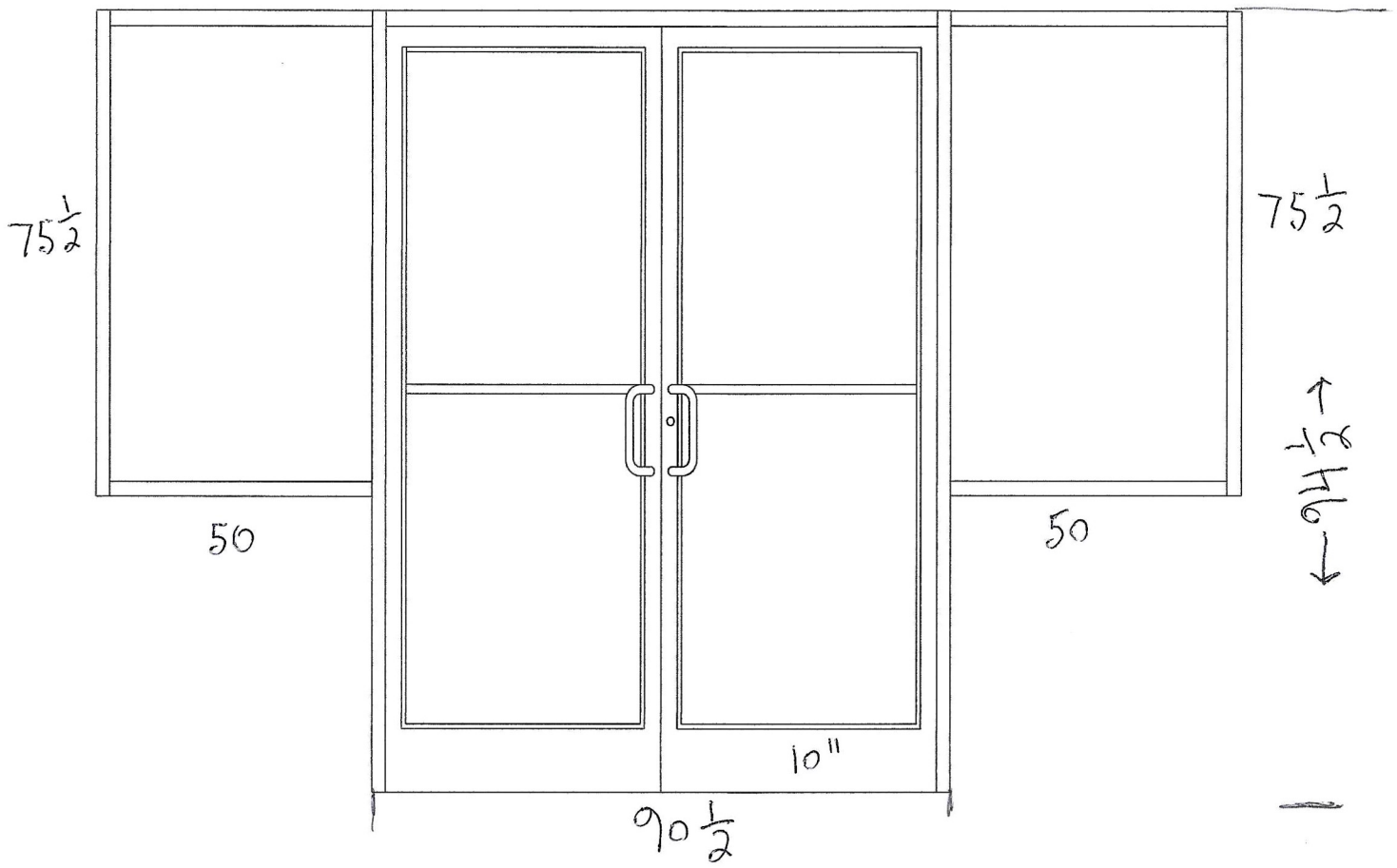
Oscar Munoz, owner of 102 Main Street in the Turner Junction Historic District, is requesting approval of a Certificate of Appropriateness to renovate the façade of the rear entry to the building on Turner Court. The façade, as shown in the attached photo, is currently boarded up. The applicant is proposing to install two oversized commercial doors with bronze anodized finish and glazed with 1" low e tempered glass. A window will be installed on either side, both with bronze anodized finish and glass. The windows and doors will replicate what was previously on the rear of the building prior to it being boarded up.

When the applicant appeared before the Commission for preliminary review in May, members of the Commission directed the applicant to remove the proposed transom across the doors, which the applicant has, and to add a transom over each window. The applicant has determined that no transom had existed previously for the windows and is therefore requesting to omit the installation of these transoms. Please see attached information for more details.

The building is Art Moderne constructed in the 1930s. It is contributing to the Historic District but is not a candidate for local landmark status.

ACTION PROPOSED:

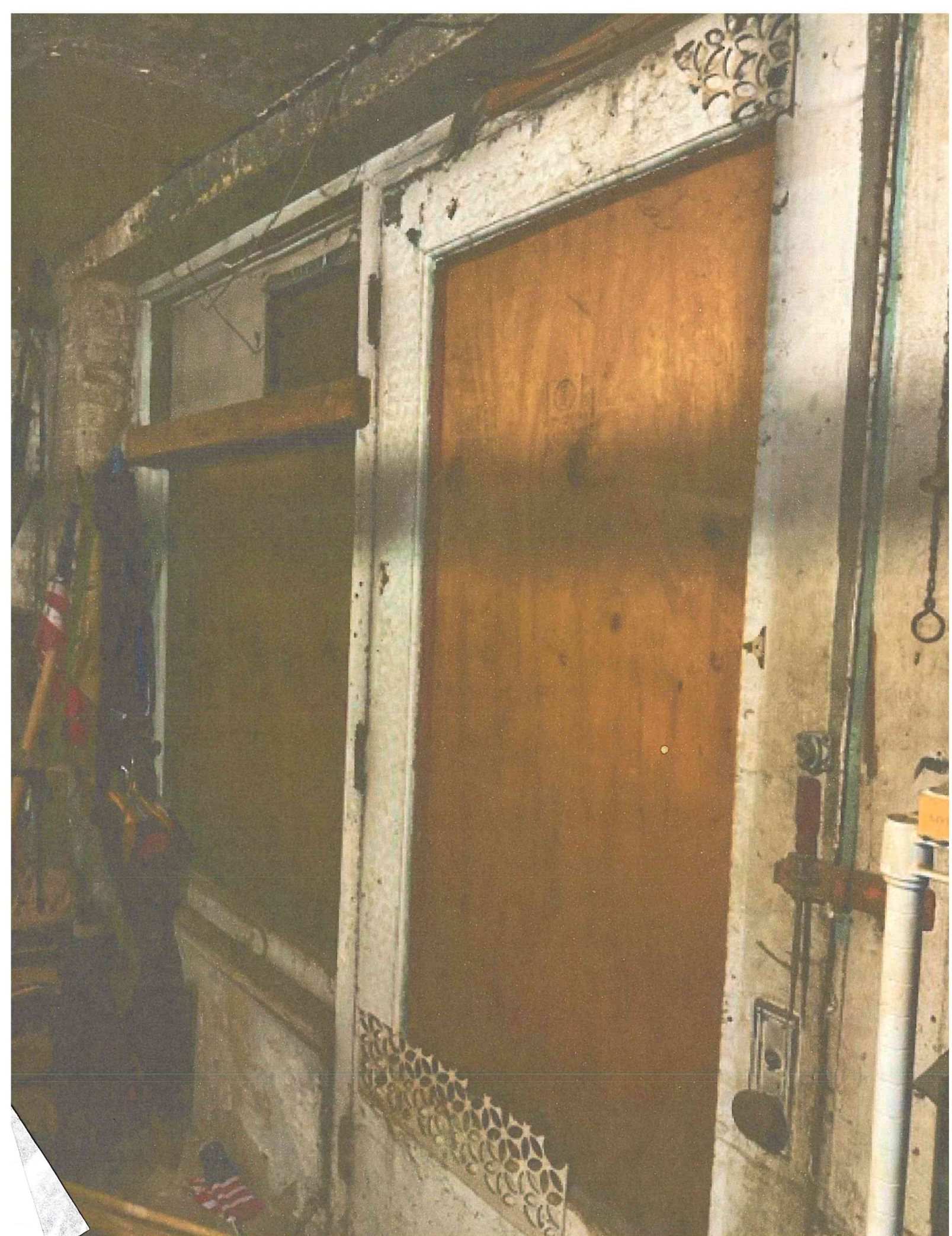
Consideration of a new façade on the rear entry to 102 Main Street.



MUNOZ








CITY OF WEST CHICAGO

HISTORICAL PRESERVATION COMMISSION AGENDA ITEM SUMMARY

ITEM TITLE:

Window/Door Sign
109 Turner Court
Joseph Raia

C.O.A. # 24-11

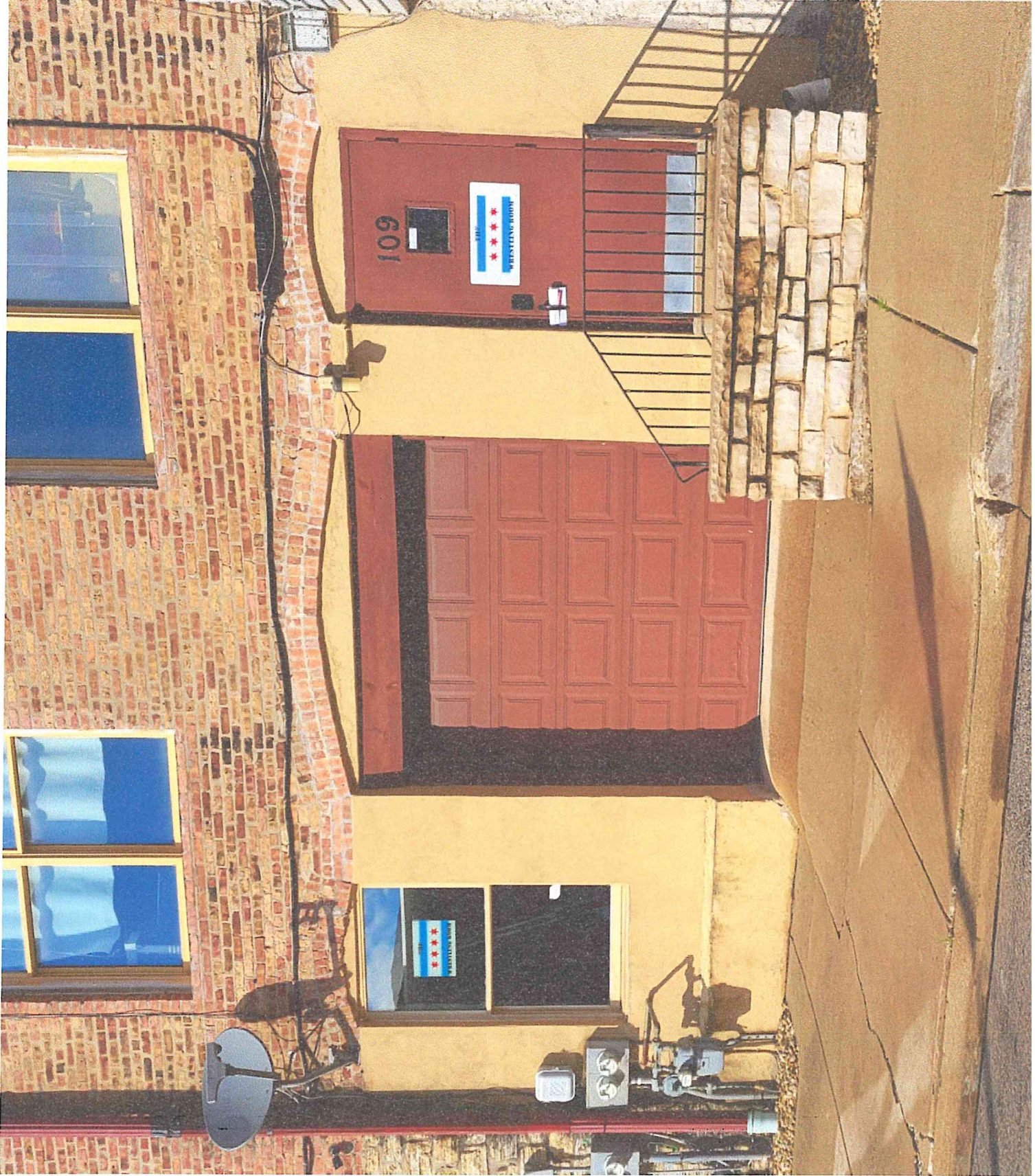
AGENDA ITEM NUMBER: 3 C.**COMMISSION AGENDA DATE:** 06-25-24**STAFF REVIEW:** John Sterrett, City Planner**SIGNATURE** _____**ITEM SUMMARY:**

Joseph Raia, owner of The Wrestling Room at 109 Tuner Court in the Turner Junction Historic District, is requesting approval of a Certificate of Appropriateness application to install two flush-mounted signs on the entrance to the building. One sign will be located on the door and will be 2 square feet while the other will be located on the window and will be 1.5 square feet. The sign on the door will be a magnet and the sign on the window will be a cling. Neither sign is permanent. Both signs comply with the Zoning Code. Please see attached information for more details.

While the building is not considered a candidate for local landmark status, it is contributing to the Turner Junction Historic District. Constructed in the 1910's, it is a vernacular commercial building.

ACTION PROPOSED:

Consideration of two flush-mounted signs at 109 Turner Court.



Window
Cling
Dimensions
1 Ft x 18"

Door
Magnetic
Sign
1 Ft x 2 Ft

CITY OF WEST CHICAGO

HISTORICAL PRESERVATION COMMISSION AGENDA ITEM SUMMARY

ITEM TITLE:

Window Replacement
119 Turner Court
Guadalupe Perez

C.O.A. # 24-12

AGENDA ITEM NUMBER: 3 D.**COMMISSION AGENDA DATE:** 06-25-24**STAFF REVIEW:** John Sterrett, City Planner**SIGNATURE****ITEM SUMMARY:**

Guadalupe Perez, owner of 119 Turner Court in the Turner Junction Historic District, is requesting approval of a Certificate of Appropriateness application to replace two windows on the building façade along Turner Court. The façade of 119 Turner Court is the rear of 118 Main Street. The size of the windows as well as the color/type of trim of the replacement windows will be the same as the existing windows. The style of the proposed window, however, is sliding rather than the existing hung windows. No other changes or alterations to the building are proposed. Please see attached photos and window details for more information.

The building is a Greek Revival constructed sometime between 1850 and 1870 and is contributing to the Historic District though it is not a candidate for local landmark status.

ACTION PROPOSED:

Consideration of replacement windows at 119 Turner Court.

JELD-WEN® Better Series 60"W x 48"H Vinyl Left Sliding Window with Nailing Flange - White/White

Model Number: JW1385-00852 | Menards® SKU: 4045516



EVERYDAY LOW PRICE

11% REBATE* Good Through 6/23/24

\$299.00

\$32.89

PRICE
AFTER
REBATE*

\$266¹¹ each

You Save \$32.89 with Mail-In Rebate*


🔥 92 People have purchased this in the past week.

- Vinyl construction allows for low maintenance
- Steel-reinforced sash for long-lasting strength
- Low-E glass with Argon reduces energy costs, interior condensation, and protects against harmful UV rays

[View More Information >](#)

Rough Opening Size: 60"W X 48"H

Pick Up At Store

 4 In-Stock at [Batavia](#)
Item located in Aisle 156 Section K






 [View Shipping & Delivery Options](#)

 [Check Another Store for Availability](#)

 [Share](#)

Product Type	Sliding Windows
Material	Vinyl
Collection	Better Series
Rough Opening Dimensions	60" W x 48" H
Frame Width	59-1/2 inches
Mounting Method	With Nailing Flange (New Construction)
Frame Height	47-1/2 inches
Hardware Type	Nylon Rollers and Cam-Lock
Frame Depth	3-3/32 inches
Hardware Finish	White
Screen Color	White
Glazing Type	Double Pane
Screen Material	Charcoal Fiberglass
Grid Pattern	No Grid
Exterior Color	White
Energy Star Zones	Not Energy Star Certified
Interior Color	White
U-Value	0.3
Air Leakage (AL) Rating	0.3 CFM
Visible Light VT Rating	0.62
Solar Heat Gain Coefficient	0.51
Meets IRC for Egress	Yes
Special Features	Screen, Brickmould, Low-E
Manufacturer Warranty	Lifetime Limited, Accidental Glass Breakage Warranty, Skilled Labor Coverage - 2 year
Shipping Dimensions	62.25 H x 50.25 W x 3.50 D
Shipping Weight	68.4375 lbs
Return Policy	Regular Return (view Return Policy)

Compare - We've selected these items to compare. Let us help you decide which product fits your needs best!

<p>Currently Viewing</p>  <p>JELD-WEN® Better Series 60" W x 48" H Vinyl Left Sliding Window with</p> <p>PRICE \$299.00 11% REBATE* \$32.89</p> <p>PRICE \$ 266¹¹ each AFTER REBATE*</p> <p>✓ Delivery ✓ 4 In-Stock at BATAVIA</p>	 <p>Northview Aspen 24" W x 24" H White Vinyl Sliding Window with Built-in J-</p> <p>PRICE \$79.90 11% REBATE* \$8.79</p> <p>PRICE \$ 71¹¹ each AFTER REBATE*</p> <p>✓ Delivery ✓ 9 In-Stock at BATAVIA</p>	 <p>JELD-WEN® Good Series 48" W x 48" H Vinyl Left Sliding Window with</p> <p>SALE PRICE \$234.83 11% REBATE* \$25.83</p> <p>PRICE \$ 209⁰⁰ each AFTER REBATE*</p> <p>✓ Delivery ✓ 4 In-Stock at BATAVIA</p>	 <p>JELD-WEN® Better Series 48" W x 24" H Vinyl Left Sliding Window with</p> <p>PRICE \$225.00 11% REBATE* \$24.75</p> <p>PRICE \$ 200²⁵ each AFTER REBATE*</p> <p>✓ Delivery ✓ 8 In-Stock at BATAVIA</p>	 <p>JELD-WEN® Better Series 48" W x 48" H Vinyl Left Sliding Window with</p> <p>PRICE \$269.00 11% REBATE* \$29.59</p> <p>PRICE \$ 239⁴¹ each AFTER REBATE*</p> <p>✓ Delivery ✓ 5 In-Stock at BATAVIA</p>
--	---	---	---	---





CITY OF WEST CHICAGO

WHERE HISTORY & PROGRESS MEET

DRAFT

WEST CHICAGO HISTORICAL PRESERVATION COMMISSION MEETING

May 28, 2024

Members Present:

Vince Malina, Chairman
Keith Letsche, Vice Chairman
SueEllen Edwards
Richard Vigsnes
Wendy Christman

City Staff:

Alderman Dan Beebe, City Council Liaison
John Sterrett, City Planner

Guests:

Melissa Mercado, 137 Turner Court (via phone)
Oscar Munoz, 102 Main Street

Members Absent:

Reverend Bill Andrews

1. Call to Order, Roll Call, and Establishment of a Quorum

The meeting was called to order by Chairman Malina at 6:00 p.m. Roll call found Chairman Malina, Vice Chairman Letsche, and Commissioners Edwards, Vigsnes, and Christman present. Commissioner Andrews was absent. With five members present, a quorum was established.

2. Public Comment

None

3. Certificate of Appropriateness Review

A. C.O.A. 24-07 – 135 Turner Court – Awning

Mr. Sterrett stated that Melissa Mercado, owner of 135 Turner Court in the Turner Junction Historic District, is requesting approval of a Certificate of Appropriateness application to install an awning on the building facing Turner Court. The proposed awning will be a traditional shed-style awning with no sides and will consist of Sunbrella fabric. The applicant is proposing a color of either Ocean Blue or a shade of teal, depending on the direction from the Commission. The awning will contain signage identifying the name of the business in the commercial space. Because of this, the awning will require approval of a sign permit to ensure the dimensions of the sign do not exceed the total allowable area permitted for signage. The façade of the building facing Turner Court is permitted to have a total of 97.5 square feet of signage. The applicant previously received approval in April for a 6 square foot wall sign. This leaves the building eligible for 91.5 square feet of additional signage.

CITY OF WEST CHICAGO

WHERE HISTORY & PROGRESS MEET

After a brief discussion, Chairman Malina made a motion, seconded by Vice Chair Letsche, to approve the COA application as presented with the color choice of teal for the awning. With a voice vote of all ayes the motion carried.

B. C.O.A. 24-08 – 200 High Street – Parking Lot Repair/Replacement

Mr. Sterrett stated that Vijay Kumar Gupta, owner of the apartment building at 200 High Street in the Turner Junction Historic District, is requesting approval of a Certificate of Appropriateness application to repair the existing parking lot. The applicant intends to remove approximately 5,140 square feet of existing asphalt down to the gravel. The gravel will be leveled and additional gravel will be added if needed. Four inches of N-50 asphalt will be installed and the lot will be restriped to original layout, including car stops. No other changes to the building or property are proposed.

After a brief discussion, Chairman Malina made a motion, seconded by Commissioner Christman, to approve the COA application as presented. With a voice vote of all ayes the motion carried.

C. C.O.A. 24-09 – 332 E Washington Street – Solar Panels

Mr. Sterrett stated that the Rick Luckow, homeowner of 332 East Washington Street in the East Washington Street Historic District, is requesting approval of a Certificate of Appropriateness application to install rooftop solar panels on the subject house. The applicant intends to install 13 solar panels on the south side of the house, out of view from Washington Street. None of the panels will be installed on the north side of the house. The proposed location of these panels is on the rear of the house, away from Washington Street, and is consistent with previous approvals of solar panels on Washington Street.

After a review of the submitted information, members of the Commission wanted to continue discussion on the proposal after additional information has been submitted. Chairman Malina made a motion, seconded by Vice Chair Letsche, to continue the discussion on the proposed COA application to next month. With a voice vote of all ayes the motion carried.

4. Preliminary Review

Mr. Sterrett stated that Oscar Munoz, new owner of 102 Main Street, is proposing to renovate the existing façade on the rear of the building facing Turner Court. The entire façade is boarded up and the owner is proposing to install new windows and doors with glazing.

After a discussion on the proposal, members of the Commission instructed the owner to redesign the plans so there is no transom for the doors and include a transom at the top of each window. The façade should match exactly how the façade previously looked with the same size and design. The owner stated he will revise his plans and will return to the Commission for further review.

5. Historic District/Landmark Updates

A. Landmarking of Historic Homes Marketing

Mr. Sterrett also stated that the City will begin the process of updating the historical buildings survey in the two districts as well as identifying other historic buildings outside the district in the surrounding neighborhoods.

CITY OF WEST CHICAGO

WHERE HISTORY & PROGRESS MEET

6. Approval of January 23, 2024 Meeting Minutes

Chairman Malina made a motion, seconded by Vigsnes, to approve the April 23, 2024 meeting minutes with the addition of City Council Liaison, Alderman Dan Beebe, to the minutes. With a voice vote of all ayes the motion carried.

7. Other Business

Members of the Commission briefly discussed the status of the 200 Main Street façade project.

8. Adjournment

Chairman Malina made a motion, seconded by Vice Chair Letsche, to adjourn the meeting. With a voice vote of all ayes the motion carried and the Historical Preservation Commission, at 7:07 p.m., adjourned.

Respectfully submitted by John H. Sterrett, City Planner



DRAFT MINUTES

**WEST CHICAGO HISTORICAL PRESERVATION COMMISSION MEETING
March 28, 2023**

Members Present:

Keith Letsche
Crystal Noland-Rianni
Richard Vigsnes
Wendy Christman
SueEllen Edwards

City Staff:

John Sterrett, City Planner

Guests:

Ronald Segert, 132 Fremont Street
Holly Perez, 312 E Washington Street

Members Absent:

Vince Malina
Reverend Bill Andrews

1. Call to Order, Roll Call, and Establishment of a Quorum

The meeting was called to order by Vice Chairman Letsche at 6:00 p.m. Roll call found Vice Chairman Letsche, and Commissioners Noland-Rianni, Edwards, Vigsnes, and Christman present. Chairman Malina and Commissioner Andrews were absent. With five members present, a quorum was established.

2. Public Comment

None

3. Certificate of Appropriateness Review

A. C.O.A. 23-03 – 132 Fremont Street – City of West Chicago – Façade Renovation

Mr. Sterrett stated that Ronald Segert of Norris Segert Funeral Home and Cremation Services, owner of 132 Fremont Street in the Turner-Junction Historic District, is seeking approval of a Certificate of Appropriateness to install a 6-foot tall shadowbox fence. The proposed fence will be located along the western lot line, approximately 107 feet in length, and will match the existing fence located along the side property line south of the funeral home building. The existing fence along the south lot line received COA approval in June of 2022. The proposed fence complies with the City's Zoning Code.

After a brief discussion, Commissioner Christman made a motion, seconded by Commissioner Noland-Rianni, to approve the COA application as presented. With a voice vote of all ayes the motion carried.

B. C.O.A. 23-05 – 312 E Washington Street – Revolution Solar – Solar Panels

Mr. Sterrett stated that Cherissa Marzano-Gabriel of Revolution Solar has applied for approval of a Certificate of Appropriateness on behalf of Holly Perez, owner of 312 East Washington Street in the East Washington Street Historic District, to install 10 roof-mounted solar panels on an existing detached garage on the property. Seven of these panels will be installed on the rear of the structure and will not be visible from public view along East Washington Street. The remaining three panels will be installed on the roof facing East Washington Street and will be visible from public view. No panels will be installed on the existing single-family home.

Commissioners raised concerns about allowing solar panels that are visible from the public right-of-way within the East Washington Street Historic District. The Commission requested more information from applicant as to why solar panels needed to be located on the street side of the detached garage since there was no indication in the application as to why this is needed.

Commissioner Noland-Rianni made a motion, seconded by Commissioner Christman, to continue the discussion to the next meeting pending more information from the applicant. With a voice vote of all ayes the motion carried.

C. C.O.A. 23-04 – 425 E Washington Street – Robert Collier – Detached Garage Demolition

Mr. Sterrett stated that Robert Collier, homeowner of 425 E Washington Street in the East Washington Street Historic District, is requesting approval of a Certificate of Appropriateness to demolish the existing two-story detached garage on the property. The homeowner previously applied for and received approval of a COA to demolish this garage in July of 2016. A building permit was subsequently applied for and approved for this demolition. The demolition, however, did not occur and the approvals for the demo permit and the COA have since lapsed.

The garage has horizontal wood clapboard siding and a gable roof covered in asphalt shingles. The garage has a severe lean to it and has been determined to be structurally unsound. The building is considered a hazard and was placed in violation instructing either its immediate removal or repair. An evaluation of the structural integrity has concluded that it is more cost effective to remove the existing garage in its entirety in lieu of correcting the structural deficiencies and restoring the structure. Furthermore, the garage is classified as legal non-conforming as it does not comply with the current minimum side yard setback requirement of three (3') feet from the side (west) lot line. In fact, the garage encroaches over the west lot line and into the neighboring property. The homeowner intends to replace the garage if the demolition is authorized by the Commission. A COA will need to be submitted and approved prior to construction of a replacement.

The commission had concerns about the demolition of the detached garage because of its historical significance as a carriage house. The commission directed staff to contact the property owner and request three quotes from contractors to determine the cost of repairing the garage. The Commission also wanted to understand what type of garage would be constructed in place of the existing garage.

Commissioner Edwards made a motion, seconded by Commissioner Christman, to continue the discussion to the next meeting pending the requested information from the applicant. With a voice vote of all ayes the motion carried.

D. C.O.A. 23-06 – 124 Main Street – Yolanda Peterson – Removal of Door Threshold

Mr. Sterrett stated that Yolanda Peterson, owner of 124 Main Street in the Turner Junction Historic District, is requesting approval of a Certificate of Appropriateness to remove the threshold of the existing exterior door on Main Street. The building space is currently being renovated for a new bakery known as “Raised Bakery”. The applicant received COA approval in February of 2020 to install a new entrance on the south wall of the building. Because of the addition of this door, ADA requirements stipulate that the existing door on Main Street be accessible. For this to be possible, the existing threshold must be removed to satisfy ADA requirements. The applicant is planning to replace the existing door with the same type and style door, just slightly taller so it extends to grade.

After a brief discussion, Commissioner Christman made a motion, seconded by Commissioner Vignes, to approve the COA application as presented. With a voice vote of all ayes the motion carried.

4. Preliminary Review

132 Fremont Street

Mr. Sterrett stated that staff received an application for a stoop/steps removal and replacement at 132 Fremont Street. Mr. Sterrett noted that there is an existing tile on top of the existing stoop. The Commission expressed a desire that this tile remain on the stoop and directed staff to convey this information to the applicant.

5. Approval of the Draft February 28, 2023 Meeting Minutes

Commissioner Christman made a motion, seconded by Commissioner Vignes, to approve the February 28, 2023 meeting minutes subject to the removal of the first two paragraphs on page 2 since they were part of a previous meeting. With a voice vote of all ayes the motion carried.

6. Other Business

Prince Crossing Train Depot

Vice Chairman Letsche brought up the future demolition of the train depot building on Prince Crossing Road located on property owned by Wheaton Academy. Mr. Sterrett explained that Wheaton Academy may remove the building as part of overall improvements to their school campus although they have not given a definitive schedule of its removal. The Commission had concerns that they have not yet been consulted in the building’s potential removal. Vice Chairman Letsche informed the Commission on the historical significance of this particular train depot building. In the future the Commissioners want to ensure that they are able to contribute to any discussion related to a decision concerning a historic matter.

Next Meeting

Mr. Sterrett stated that the next meeting would be on April 18th rather than April 25th.

7. Adjournment

Commissioner Vignes made a motion, seconded by Commissioner Christman, to adjourn the meeting. With a voice vote of all ayes the motion carried. The Historical Preservation Commission, at 7:11 p.m., adjourned.

Respectfully submitted by John H. Sterrett, City Planner