



Design Review Board Meeting
Tuesday, October 8, 2024 - 5:00 PM
AGENDA

1. Call to Order/Roll Call
2. Public Comments on Items Not on the Agenda
3. Action on Minutes
 - a. August 27, 2024
4. TABLED - Application #7-2-5 Certificate of Appropriateness; 169 Stone Hedge Row Dr. - Sun Room
5. TABLED - Application #7-8-15 Certificate of Appropriateness; 82 Meadow Lane - Solar Panels
 - a. Application
6. Application # 9-10-20 Certificate of Appropriateness; 24 S. Main Street - Sign
 - a. Application
7. Application # 9-18-5 Certificate of Appropriateness; 356 S. Main Street - Shed Demolition
 - a. Application
8. Application # 9-18-15 Certificate of Appropriateness; 215 De Rosa Dr. - Residential addition
 - a. Application
9. Application # 8-27-5 Certificate of Appropriateness; 101 Recreation Dr. - Exterior material change
 - a. Application
10. Application # 9-30-5 Certificate of Appropriateness; 324 Buena Vista - Pool Demolition
 - a. Application
11. Application # 9-24-20 Certificate of Appropriateness; 145 S. Main St. - Roof material/color change
 - a. Application
12. Application # 9-24-5 Certificate of Appropriateness; 178 S. Williams St. - Deck
 - a. Application
13. Other Business
14. Adjourn



Design Review Board
Tuesday, August 27, 2024 - 5:00 PM
MINUTES

1. Call to Order/Roll Call

Board Chair Heather Green called the Design Review Board to order for August 27, 2024 at 5:01 pm.

Present - Heather Green, Candice Evans, Franz Stein, Andrew Hale
Absent - Craig Bohning

Staff present - Sean Stanearth - City Manager, Teresa Monroe - Clerk of Council

Public present - Don Lightle, Deb Robinson

2. Public Comment

No comments

3. Action on Minutes a. July 23, 2024 b. August 13, 2024

ACTION: Heather Green moved to approve minutes for July 23, 2024 and August 13, 2024 as a block; Andrew Hale seconded and the vote was as follows:

AYES: Heather Green, Candice Evans, Franz Stein, Andrew Hale

NOES: None

ABSTAIN: None

Passed 4 – 0

4. TABLED - Application #7-1-5 Certificate of Appropriateness; 161 Lakeview Dr. - Covered front porch

a. Application - Materials update

ACTION: Heather Green moved to take from the table; Candice Evans seconded and the vote was as follows:

AYES: Heather Green, Franz Stein, Candice Evans, Andrew Hale

NOES: None

ABSTAIN: None

Passed 4 - 0

Contractor Don Lightle and homeowner Deb Robinson were present for the application. Board review of updated materials provided, no samples for the vinyl siding material or color choice provided and applicant is still unsure of what she will choose. Andrew Hale said the point of this board is to look at these products and then issue a certificate of appropriateness based on the product in front of them, and at this point, they have no idea what they are being asked to approve. Board in agreement that they cannot give a halfway approval, to begin work without knowing what the final product will look like. Review of vinyl samples and colors from a pamphlet provided, homeowner chose the one she wanted to use and was agreeable to the board. Approval of T1-11 siding for gable until vinyl ordered comes in.

ACTION: Heather Green moved to approve with the condition that the Polaris Homescape collection Novikstone hand stacked mocha is utilized on the bottom portion of the house where the existing siding is going to be removed, existing siding will be removed and put on the gable up top of porch; Candice Evans seconded and the vote was as follows:
AYES: Heather Green, Franz Stein **, Candice Evans, Andrew Hale
NOES: None
ABSTAIN: None

Passed 4 - 0

** Franz Stein first voted "present", Clerk Monroe reviewed the rules of order and said that if voting present or abstain the reason must be stated, such as a direct conflict of interest. Mr. Stein said he just didn't agree with the application and did not want to vote yes or no. There was a brief wait while Ms. Monroe consulted the city Law Director. Mr. Stein said he questions that this application is even necessary given current ordinance wording, and based on the zoning and design guideline maps referred to in 1187. He questions that COA applications are required for properties outside the design districts. Discussion on Section 1187.03 (b); Mr. Staneart said this particular ordinance does not go without its contradictions and that he would take this to the legal team for review. Ms. Monroe said that the Law Director's direction on abstaining from a vote was that "Council and board members have a duty to vote unless there is a legitimate reason to abstain, such as a conflict of interest." The role call continued.

5. TABLED - Application #7-2-5 Certificate of Appropriateness; 169 Stone Hedge Row Dr. - Sun Room

No new materials have been submitted. The zoning inspector said the applicant is switching contractors

6. TABLED - Application #7-8-15 Certificate of Appropriateness; 82 Meadow Lane - Solar Panels
No new materials were submitted.

7. Other Business

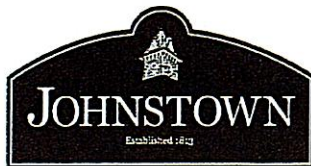
1. Continued discussion on COA applications and authority, continued review of city code 1187.03 and contradiction within. Legal counsel to review and provide opinion.
2. Discussion on development in the area. Mr. Staneart said he thinks Johnstown needs to define what designs it wants and what type of development it wants and where they want to see or not see it.

8. Adjourn

ACTION: Andrew Hale moved to adjourn; Candice Evans seconded and all were in favor.
AYES: Heather Green, Candice Evans, Franz Stein, Andrew Hale
NOES: None
ABSTAIN: None

Passed 4 - 0

The meeting adjourned at 6:30 pm.



JOHNSTOWN, OHIO
SEP 24 2024

CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 9-24-15 Date: 9 / 17 / 2024

FEES:

Base Fee: \$ 100

Total Fee Amount: \$ 100 Paid: Check # 760 Cash: \$

(PLEASE PRINT)

1. Applicant: Alec Thum / Solshine Solar Solutions Phone: (614) 879 - 3632
2. Property Address: 82 Meadow Lane City: Johnstown State: OH Zip: 43031
3. Applicant's E-mail: install@solshine.one
4. Business Owner's Name: Alec Thum Phone: (614) 879 - 3632
5. Contractor's Name: Solshine Solar Solutions Phone: (614) 879 - 3632
6. Principal Business Activity: Installation of residential solar
7. Existing Use of Property: Single Family Home, 22 roof-mounted solar panels
8. Square Footage of Proposed Building or Business: 440 sq. ft.
9. Zoning District: Johnstown Number of Off-Street Parking Spaces:
10. Estimated Cost of Improvements: \$ 19844

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- PLEASE READ CITY ORDINANCE #1187 PRIOR TO SUBMITTING APPLICATION
- (Conditional) One (1) full set (8.5 x11) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed

buildings and alterations are required. Attach any requested, supplemental or necessary documentation.

Some of the requests below may not apply to your application.

- (1) A dimensioned site plan showing existing conditions including all structures, pavement, curb-cut locations, natural features such as tree masses and riparian corridors, and rights-of-way.
- (2) A dimensioned site plan showing the proposed site change including structures, pavement, revised curb-cut locations, landscaping, property lines and screening of mechanicals.
- (3) Illustration of all existing building elevations from street/ground to scale & picture of project before starting.
- (4) Illustrations of all proposed building elevations to scale & picture of project when it's finished.
- (5) Samples of proposed building materials.
- (6) Color samples for proposed roof, siding, etc.
- (7) Illustrations of all existing site signage including wall and ground.
- (8) Illustrations of proposed signage to scale.
- (9) A dimensioned site plan showing location of existing ground mounted signs.
- (10) A dimensioned site plan showing the proposed location of ground mounted signs.
- (11) Samples of proposed sign materials.
- (12) Color samples of proposed sign(s).
- (13) Proposed lighting plan for sign(s).
- (14) The applicant shall post one sign per public street frontage of the subject property within fifteen (15) feet of the curb indicating the subject, date, and time for a public hearing. The sign(s) shall be posted at least ten (10) days prior to the scheduled hearing. The sign(s) should be purchased at the Johnstown City Offices and will measure no less than two (2) feet by three (3) feet.

List of Materials that will be used on the project:

1. HANWHA/Q-CELLS Q.PEAK DUO BLK ML-G10+ (410W) MODULES 2. ENPHASE ENERGY IQ8M-72-M-US MICRO-INVERTERS
3. ENPHASE IQ COMBINER BOX 5 (X-IQ-AM1-240-5) 4. UNIRAC NXT UMOUNT RAIL KIT
5. S-5I PROTEA BRACKET 6. _____
7. _____ 8. _____

List of Contiguous Neighbors and Addresses:

1.	<u>George Mann</u>	<u>76 Meadow Lane</u>	<u>OH</u>	<u>43031</u>
	Neighbor's Name	Neighbor's Address	State	Zip Code
2.	<u>Austin Gilbert</u>	<u>88 Meadow Ln</u>	<u>OH</u>	<u>43031</u>
	Neighbor's Name	Neighbor's Address	State	Zip Code
3.	<u>Steven & Annette Merritt</u>	<u>85 Meadow Ln</u>	<u>OH</u>	<u>43031</u>
	Neighbor's Name	Neighbor's Address	State	Zip Code
4.	<u>Austin Dingess</u>	<u>77 Saratoga Dr</u>	<u>OH</u>	<u>43031</u>
	Neighbor's Name	Neighbor's Address	State	Zip Code

Applicant's Signature: x Alec Thurn Date: 9 / 17 / 2024

City Manager Signature: x _____

PHOTOVOLTAIC ROOF MOUNT SYSTEM

22 MODULES-ROOF MOUNTED - 9.020 kWDC, 7.150 kWAC
82 MEADOW LN, JOHNSTOWN, OH 43031, USA

SYSTEM SUMMARY

- (N) 22 - HANWHA/Q-CELLS Q.PEAK DUO BLK ML-G10+ (410W) MODULES
- (N) 22 - ENPHASE ENERGY IQ8M-72-M-US MICRO-INVERTERS
- (N) JUNCTION BOX
- (N) ENPHASE IQ COMBINER BOX 5 (X-IQ-AM1-240-5)
- (E) 200A MAIN SERVICE PANEL WITH (E) 200A MAIN BREAKER
- (N) 60A FUSED KNIFE-BLADE VISIBLE LOCKABLE LABELED AC DISCONNECT WITH 40A FUSES [240V]
- (N) TAP BOX

INTERCONNECTION METHOD : LINE SIDE TAP IN TAP BOX

DESIGN CRITERIA

ROOF TYPE: TRAPEZOIDAL METAL
ROOF FRAME: 2"X6" RAFTERS @ 16" O.C
SEAMS SPACING : SEAMS @ 9" O.C.
STORY: ONE STORY
SNOW LOAD: 20 PSF
WIND SPEED: 115 MPH
WIND EXPOSURE: C
RISK CATEGORY: II
COORDINATE: 40.149018, -82.690725

NOTE: INSTALLER TO DETERMINE OPTIMAL CONDUIT RUN ON SITE. ATTIC RUN IS OPTIONAL UNLESS REQUIRED BELOW.
ATTIC RUN: OPTIONAL

GOVERNING CODES:

- 2023 NATIONAL ELECTRICAL CODE (NEC)
- 2024 OHIO BUILDING CODE (OBC)
- 2019 RESIDENTIAL CODE OF OHIO (RCO)
- 2024 OHIO FIRE CODE (OFC)
- 2024 OHIO PLUMBING CODE (OPC)
- 2024 OHIO MECHANICAL CODE (OMC)

SHEET INDEX

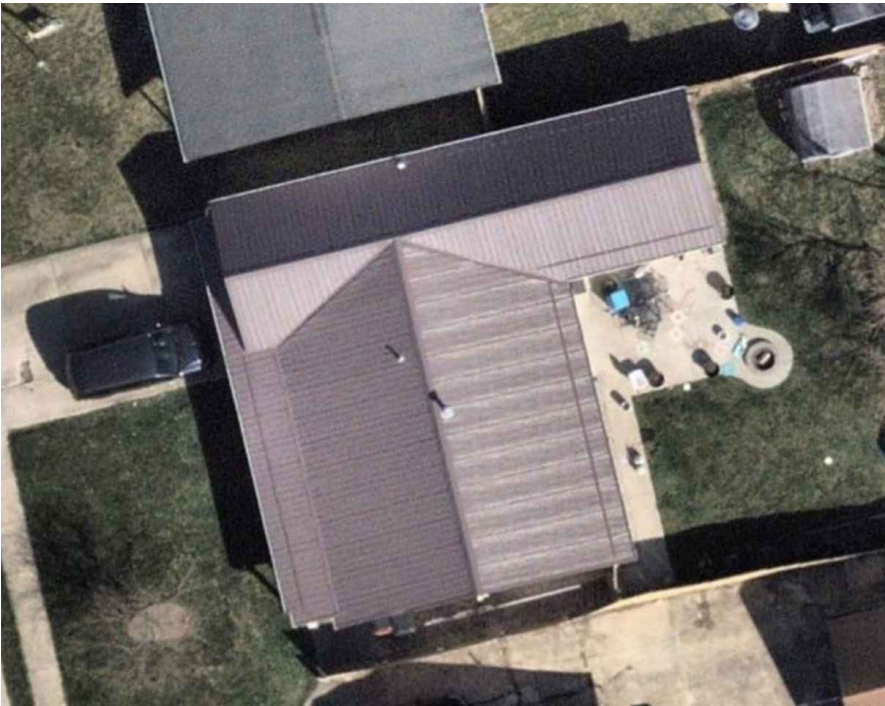
- PV-0 COVER SHEET
- PV-1 SITE PLAN WITH ROOF PLAN
- PV-2 ROOF PLAN WITH MODULES
- PV-3 ATTACHMENT DETAILS
- PV-3.1, 3.2 ELEVATION DETAILS
- PV-3.3 HOUSE PHOTOS
- PV-4 ELECTRICAL LINE DIAGRAM WITH CALCULATION
- PV-5 WARNING LABELS & PLACARD
- PV-6+ EQUIPMENT SPEC SHEETS

GENERAL NOTES:

1. INSTALLATION OF SOLAR PHOTOVOLTAIC SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 690, AND ALL OTHER APPLICABLE NEC CODES WHERE NOTED OR EXISTING.
2. PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL COMPLY WITH NEC ARTICLE 110.
3. ALL WIRES, INCLUDING THE GROUNDING ELECTRODE CONDUCTOR SHALL BE PROTECTED FROM PHYSICAL DAMAGE IN ACCORDANCE WITH NEC ARTICLE 250
4. THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE; THIS SYSTEM IS UTILITY INTERACTIVE PER UL 1741 AND DOES NOT INCLUDE STORAGE BATTERIES OR OTHER ALTERNATIVE STORAGE SOURCES.
5. ALL DC WIRES SHALL BE SIZED ACCORDING TO [NEC 690.8]
6. DC CONDUCTORS SHALL BE WITHIN PROTECTED RACEWAYS IN ACCORDANCE WITH [NEC 690.31]
7. ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL JURISDICTIONAL BUILDING CODE.

ELECTRICAL NOTES:

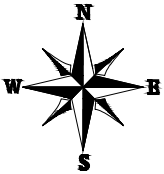
1. EACH MODULE TO BE GROUNDED USING THE SUPPLIED CONNECTION POINT PER MANUFACTURER'S REQUIREMENTS. ALL SOLAR MODULES, EQUIPMENT, AND METALLIC COMPONENTS ARE TO BE BONDED. IF THE EXISTING GROUNDING ELECTRODE SYSTEM CAN NOT BE VERIFIED OR IS ONLY METALLIC WATER PIPING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.
2. ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF NATIONAL ELECTRICAL CODE. LABEL SHALL BE METALLIC OR PLASTIC, ENGRAVED OR MACHINE PRINTED IN A CONTRASTING COLOR TO THE PLAQUE. PLAQUE SHALL BE UV RESISTANT IF EXPOSED TO SUNLIGHT.
3. DC CONDUCTORS SHALL BE RUN IN EMT AND SHALL BE LABELED, "CAUTION DC CIRCUIT" OR EQUIV. EVERY 5 FT.
4. EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH 250.134 OR 250.138(A).
5. CONFIRM LINE SIDE VOLTAGE AT ELECTRIC UTILITY SERVICE PRIOR TO CONNECTING INVERTER. VERIFY SERVICE VOLTAGE IS WITHIN INVERTER VOLTAGE OPERATIONAL RANGE.
6. OUTDOOR EQUIPMENT SHALL BE NEMA-3R RATED OR BETTER.
7. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.
8. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE, AND FOR ROOF-MOUNTED SYSTEMS, WIRING MUST BE PERMANENTLY AND COMPLETELY HELP OFF OF THE ROOF SURFACE. NEC 110.2 - 110.4 / 300.4



1 AERIAL PHOTO
PV-0 SCALE: NTS



2 VICINITY MAP
PV-0 SCALE: NTS



DEL MAR, CA 92014, USA

DESIGN SUPPORT DAY OF INSTALL:
CHAT.POWUR.COM

VERSION		
DESCRIPTION	DATE	REV
INITIAL RELEASE	08-29-2024	UR
REVISION	10-05-2024	A

PROJECT NAME

AARON SHIRA
82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME

COVER SHEET

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-0

MODULE TYPE, DIMENSIONS & WEIGHT

NUMBER OF MODULES = 22 MODULES
MODULE TYPE = HANWHA/Q-CELLS Q.PEAK DUO BLK
ML-G10+ (410W) MODULES
MODULE WEIGHT = 48.5 LBS / 22.0 KG
MODULE DIMENSIONS = 74.0" X 41.1" = 21.12 SF
UNIT WEIGHT OF ARRAY = 2.3 PSF

NOTE:
3/4" AND 1" FOR EMT AND LIQUID TIGHT
CONDUIT RUN (7/8" ABOVE ROOF)

NOTE: THE AC DISCONNECT IS
LOCATED WITHIN 6FT OF UTILITY
METER

FRONT YARD
MEADOW LN

REAR YARD

- PLUMBING VENTS, SKYLIGHTS AND MECHANICAL VENTS SHALL NOT BE COVERED, MOVED, RE-ROUTED OR RE-LOCATED.

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



NOTE: ACTUAL ROOF CONDITIONS AND RAFTERS (OR SEAM) LOCATIONS MAY VARY. INSTALL PER MANUFACTURER(S) INSTALLATION GUIDELINES AND ENGINEERED SPANS FOR ATTACHMENTS

ROOF DESCRIPTION						
ROOF TYPE				TRAPEZOIDAL METAL ROOF		
ROOF	# OF MODULES	ROOF TILT	AZIMUTH	RAFTERS SIZE	RAFTERS SPACING	SEAMS SPACING
#1	16	18°	77°	2"X6"	16" O.C.	9" O.C.
#2	3	31°	167°	2"X6"	16" O.C.	9" O.C.
#3	3	31°	347°	2"X6"	16" O.C.	9" O.C.

ARRAY AREA & ROOF AREA CALC'S		
AREA OF NEW ARRAY (Sq. Ft.)	AREA OF ROOF(PLAN VIEW) (Sq. Ft.)	TOTAL ROOF AREA COVERED BY ARRAY %
464.66	2166.8	21.44
21.44%	ROOF AREA (ARRAY <33% of ROOF AREA)	

BILL OF MATERIALS		
EQUIPMENT	QTY	DESCRIPTION
RAIL	14	UNIRAC NXT UMount RAIL - 168" MILL
RAIL SPLICE	08	NXT UMount RAIL SPLICE
UNIVERSAL CLAMP	56	NXT UMount COMBO CLAMP - MILL
METAL ROOF ATTACHMENT	63	S-5! PROTEA BRACKET
ACCESSORIES	24	NXT UMount RL & CLMP CAP KIT
MLPE & GROUNDING	28	NXT UMount MLPE & LUG CLAMP
WIRE MANAGEMENT	20	NXT UMount NS WIRE MGMT CLIP

LEGEND	
JB	JUNCTION BOX
UM	UTILITY METER
ACD	KNIFE-BLADE VISIBLE LOCKABLE LABELED AC DISCONNECT
TB	TAP BOX
MSP	MAIN SERVICE PANEL
CB	ENPHASE IQ COMBINER BOX 5 (X-IQ-AM1-240-5)
	ENPHASE ENERGY IQ8M-72-M-US MICRO INVERTER
	UNIRAC NXT UMount RAIL
	ROOF ATTACHMENT S-5! PROTEA BRACKET @ 45" O.C
	VENT, ATTIC FAN (ROOF OBSTRUCTION)
	SEAMS



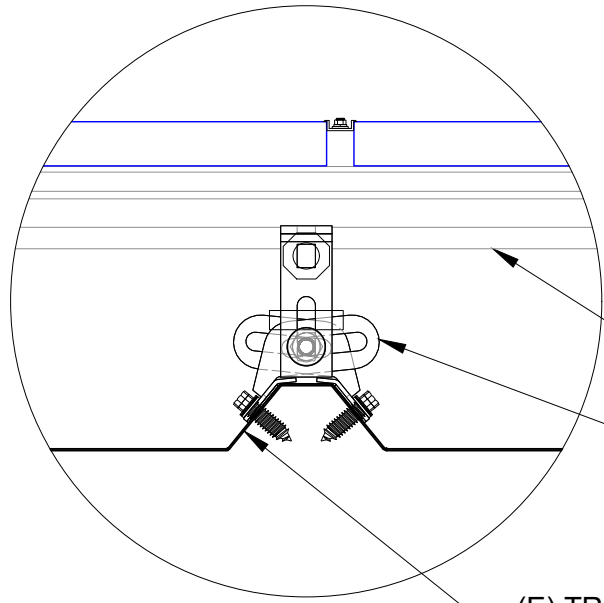
DEL MAR, CA 92014, USA

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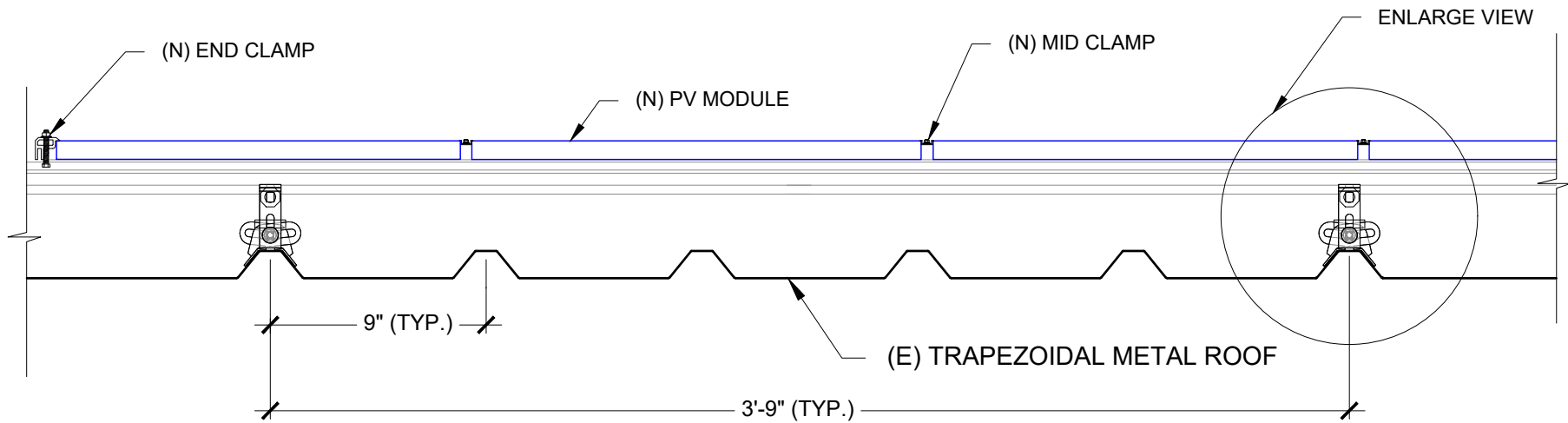
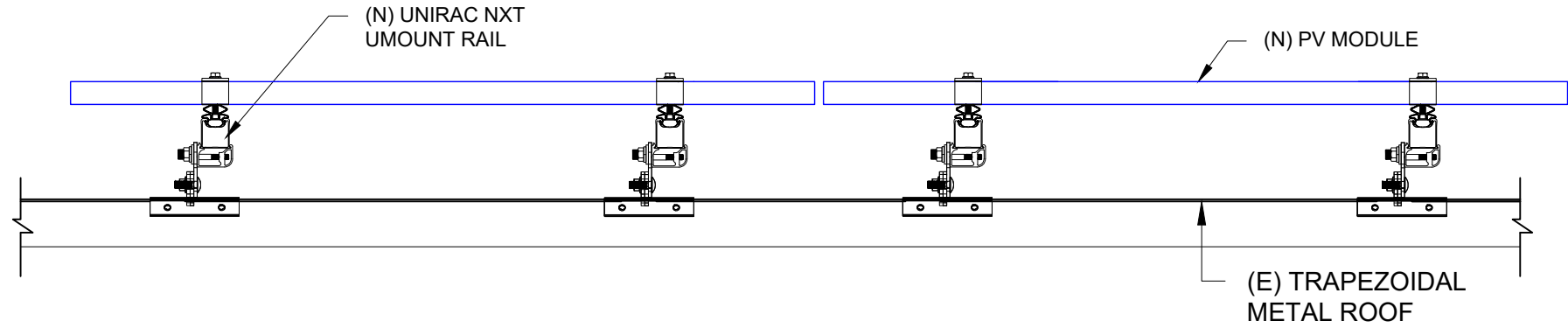
VERSION		
DESCRIPTION	DATE	REV
INITIAL RELEASE	08-29-2024	UR
REVISION	10-05-2024	A

PROJECT NAME
AARON SHIRA
82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME ROOF PLAN WITH MODULES
SHEET SIZE ANSI B 11" X 17"
SHEET NUMBER PV-2



ENLARGE DETAIL



1

ATTACHMENT DETAIL

SCALE: NTS



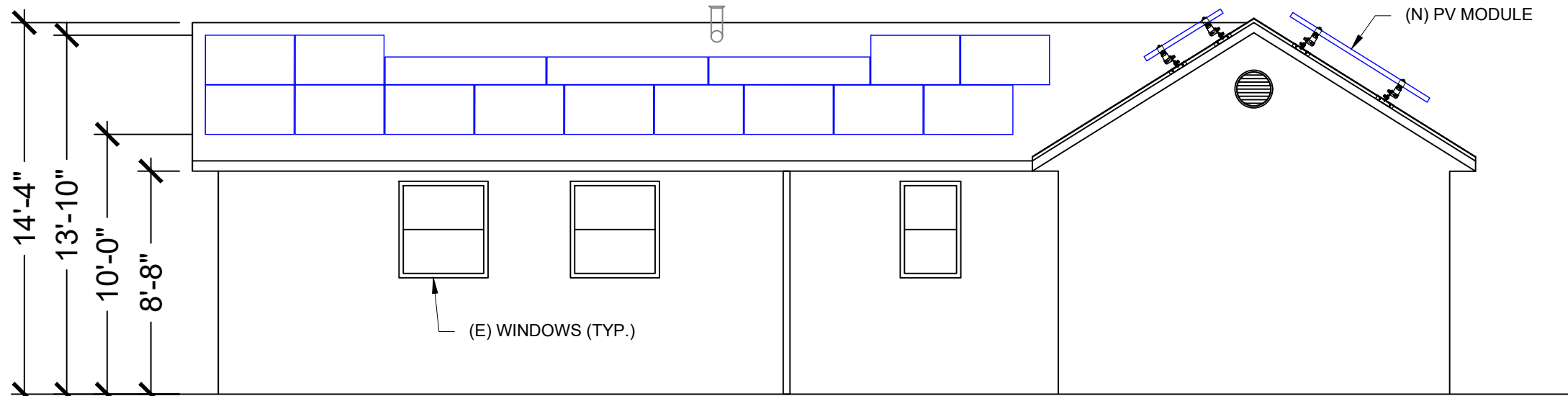
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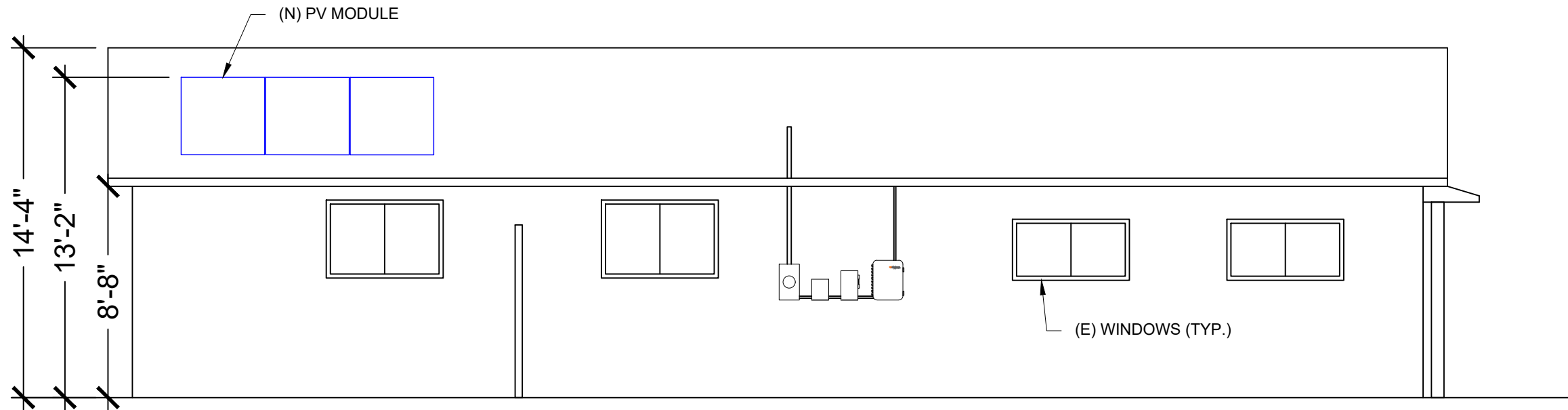
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JOHNSTOWN, OH 43031, USA
UTILITY: AEP
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AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME
ATTACHMENT DETAIL
SHEET SIZE
ANSI B 11" X 17"
SHEET NUMBER
PV-3



EAST SIDE OF HOUSE ELEVATION DETAIL



NORTH SIDE OF HOUSE ELEVATION DETAIL

1 ELEVATION DETAIL
SCALE: 3/16" = 1'-0"



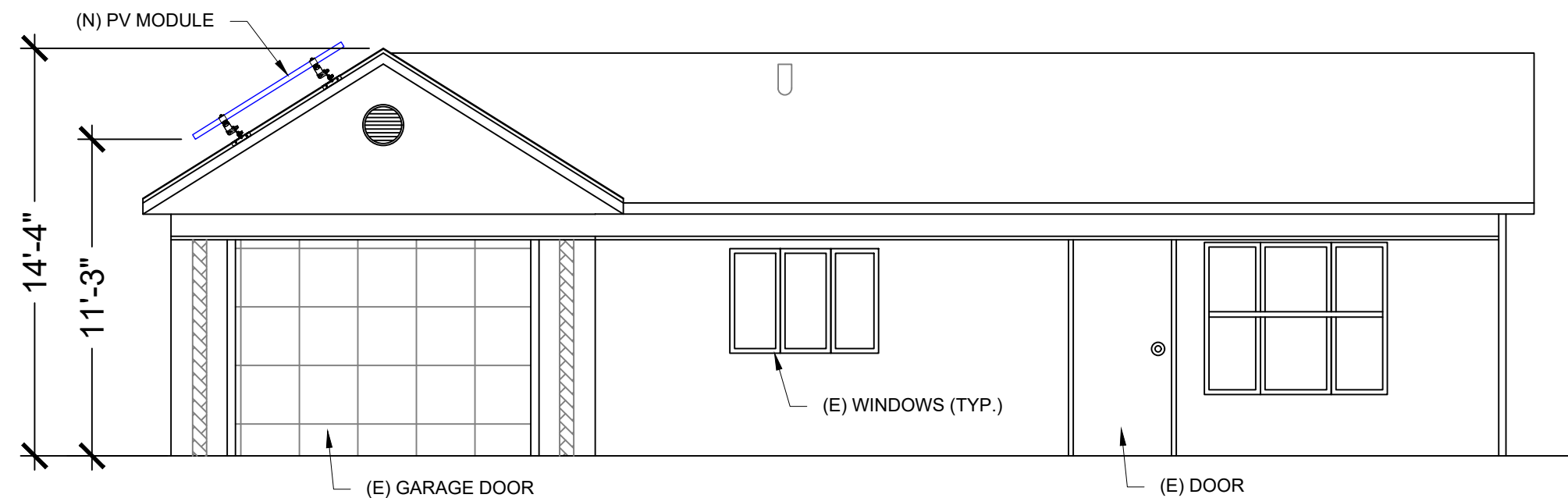
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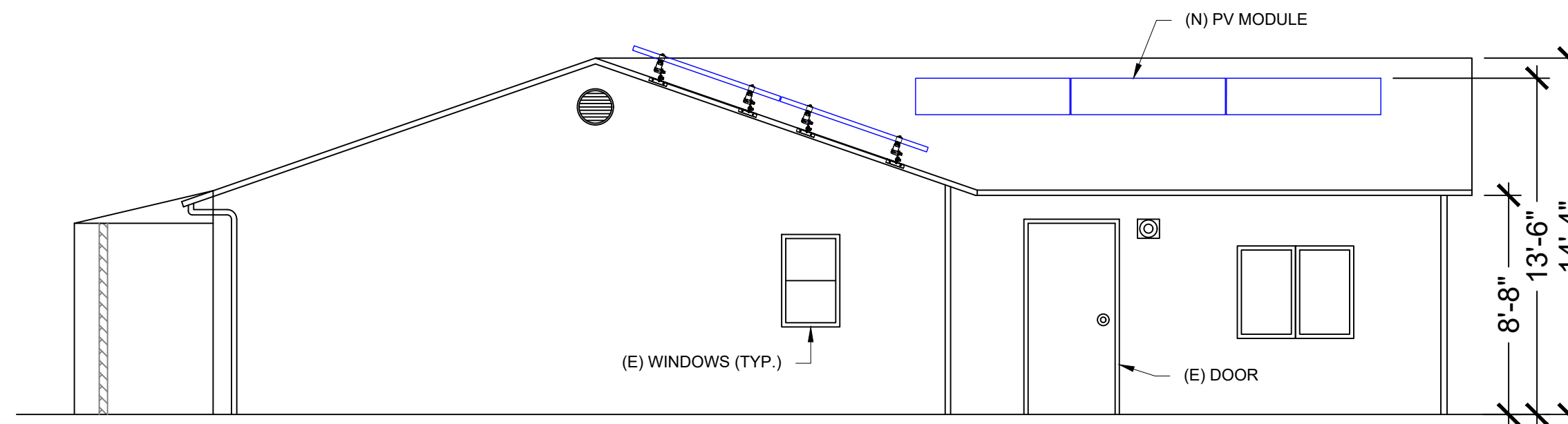
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82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME ELEVATION DETAIL
SHEET SIZE ANSI B 11" X 17"
SHEET NUMBER PV-3.1



WEST SIDE OF HOUSE ELEVATION DETAIL



SOUTH SIDE OF HOUSE ELEVATION DETAIL

1 ELEVATION DETAIL
SCALE: 3/16" = 1'-0"



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PROJECT NAME

AARON SHIRA
82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME
ELEVATION
DETAIL

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-3.2



1 HOUSE PHOTOS
SCALE: NTS



DEL MAR, CA 92014, USA

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REVISION	10-05-2024	A

PROJECT NAME
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82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME HOUSE PHOTOS
SHEET SIZE ANSI B 11" X 17"
SHEET NUMBER PV-3.3

AMBIENT TEMPERATURE SPECIFICATIONS				
RECORD LOW TEMPERATURE	AMBIENT TEMP (HIGH TEMP 2%)	CONDUIT HEIGHT	CONDUCTOR TEMPERATURE RATE (ON ROOF)	CONDUCTOR TEMPERATURE RATE (OFF ROOF)
-21°	31°	7/8"	90°	75°

NOTE:
3/4" AND 1" FOR EMT AND LIQUID TIGHT
CONDUIT RUN (7/8" ABOVE ROOF)

SOLAR MODULE SPECIFICATIONS						
MANUFACTURER / MODEL #	VMP (V)	IMP (A)	VOC (V)	ISC (A)	TEMPERATURE COEFFICIENT OF Voc	QUANTITY OF MODULES
HANWHA/Q-CELLS Q.PEAK DUO BLK ML-G10+ (410W)	37.64	10.89	45.37	11.20	-0.27%/K	22
MODULE DIMENSIONS	74.0"L x41.1"W x1.26"D					

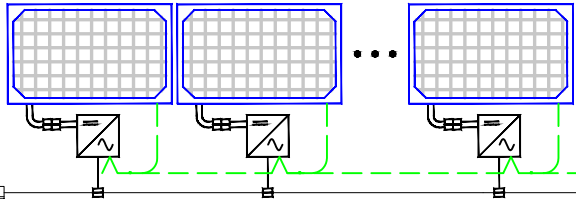
SYSTEM SIZE: 22 x 410W = 9.020 kWDC
SYSTEM SIZE: 22 x 325W = 7.150 kWAC

NOTE: THE AC DISCONNECT IS
LOCATED WITHIN 6FT OF UTILITY
METER

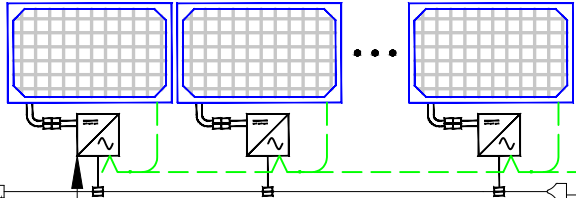
INVERTER SPECIFICATIONS			
MANUFACTURER / MODEL #	QUANTITY	NOMINAL OUTPUT VOLTAGE	NOMINAL OUTPUT CURRENT
ENPHASE ENERGY IQ8M-72-M-US	22	240VAC	1.35A

SERVICE INFO
UTILITY PROVIDER: AEP MAIN SERVICE VOLTAGE: 240V MAIN PANEL BRAND: SQUARE-D MAIN SERVICE PANEL: (E)200A MAIN CIRCUIT BREAKER RATING: (E)200A MAIN SERVICE LOCATION: NORTH-WEST SERVICE FEED SOURCE: OVERHEAD

11 MICRO-INVERTERS IN BRANCH CIRCUIT #1



11 MICRO-INVERTERS IN BRANCH CIRCUIT #2

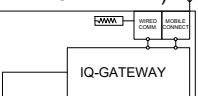


ENPHASE ENERGY
IQ8M-72-M-US, 240V,
MICRO-INVERTERS

TERMINATOR CAP ON LAST CABLE
CONNECTOR Q CABLE (TYP)

(N) JUNCTION BOX

(N) ENPHASE IQ COMBINER BOX 5
X-IQ-AM1-240-5 (IEEE 1547:2018)
(NEMA 3R RATED)



(N) 60A FUSED
KNIFE-BLADE VISIBLE
LOCKABLE LABELED AC
DISCONNECT WITH 40A
FUSES [240V]

LINE SIDE TAP

BI-DIRECTIONAL
UTILITY METER
1-PHASE, 3-W,
120V/240V, 60Hz

(N) TAP BOX

(E) 200A MAIN
SERVICE PANEL
WITH (E) 200A MAIN
BREAKER

EXISTING
GROUNDING
SYSTEM

WIRE TAG	CONDUIT	WIRE QTY		WIRE GAUGE		WIRE TYPE		TEMP. RATING	WIRE AMPACITY (A)		TEMP. DERATE	CONDUIT FILL DERATE		DERATED AMPACITY (A)		INVERTER QTY.	DESIGN CURRENT (A)	GROUND SIZE	GROUND WIRE TYPE
A	OPEN AIR	2		12 AWG		Q-CABLES		90°C	30		0.96	N/A		28.80		11	14.85	06 AWG	BARE CU GND
B	3/4" & 1" EMT	4	2	10 AWG	12 AWG	THWN-2	NM-B CABLES WHERE RUN INDOORS	90°C	40	30	0.96	0.8	1.0	30.72	28.80	11	14.85	10 AWG	THWN-2
C	3/4" & 1" LIQUID TIGHT	3		8 AWG		THWN-2		75°C	50		0.94	1.0		47.00		22	29.70	10 AWG	THWN-2
D	3/4" & 1" LIQUID TIGHT	3		6 AWG		THWN-2		75°C	65		0.94	1.0		61.10		22	29.70	8 AWG	THWN-2

1

ELECTRICAL LINE DIAGRAM WITH CALCULATION

SCALE: NTS



DEL MAR, CA 92014, USA

DESIGN SUPPORT DAY OF INSTALL:
CHAT.POWUR.COM

VERSION

DESCRIPTION	DATE	REV
INITIAL RELEASE	08-29-2024	UR
REVISION	10-05-2024	A

PROJECT NAME

AARON SHIRA
82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME
ELECTRICAL LINE
DIAGRAM WITH
CALCULATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-4

WARNING

ELECTRICAL SHOCK HAZARD

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

LABEL LOCATION:
MAIN SERVICE PANEL (IF APPLICABLE).
PER CODE(S): NEC 2023: NEC 706.15 (C)(4) & NEC 690.13(B)

PHOTOVOLTAIC

AC DISCONNECT

LABEL LOCATION:
AC DISCONNECT
NEC 690.13(B)

WARNING

DUAL POWER SOURCE

SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION:
POINT OF INTERCONNECTION
PRODUCTION METER
NEC 705.12(B)(3)(3) & NEC 690.59)

WARNING

THE DISCONNECTION OF THE GROUNDED CONDUCTOR(S) MAY RESULT IN OVERVOLTAGE ON THE EQUIPMENT

LABEL LOCATION:
COMBINER
PER CODE: NEC 690.31(E)

PHOTOVOLTAIC AC DISCONNECT

MAXIMUM AC OPERATING CURRENT: 29.70 AMPS
NOMINAL OPERATING AC VOLTAGE: 240 VAC

LABEL LOCATION:
AC DISCONNECT(S), PHOTOVOLTAIC SYSTEM POINT OF INTERCONNECTION.
PER CODE(S): NEC 2023: 690.54

PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION:
EMT/CONDUIT RACEWAYS
(PER CODE: NEC690.31(D)(2)

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

LABEL LOCATION:
MAIN SERVICE DISCONNECT / UTILITY METER
(PER CODE: NEC 690.13(B))

RAPID SHUTDOWN FOR SOLAR PV SYSTEM

LABEL LOCATION:
UTILITY SERVICE ENTRANCE/METER, OR OTHER LOCATIONS (WITHIN 3') AS REQUIRED BY LOCAL AHJ.
PER CODE(S): NEC 2023: 690.56(C)(2)

NOTES AND SPECIFICATIONS:

- SIGNS AND LABELS SHALL MEET THE REQUIREMENTS OF THE 2020 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.

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:
MAIN SERVICE PANEL PER CODE(S): NEC 2023:690.56 & IFC 2021: 1205.4.1(1)

CAUTION !

MULTIPLE SOURCES OF POWER

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN

(N) PV ARRAY

(E) MAIN SERVICE PANEL

(E) UTILITY METER

(N) TAP BOX

(N) AC DISCONNECT

(N) COMBINER BOX 5

82 MEADOW LN

DEL MAR, CA 92014, USA

DESIGN SUPPORT DAY OF INSTALL:
CHAT.POWUR.COM

VERSION		
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SHEET NAME
WARNING LABELS & PLACARD

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-5

Page 15 of 86

Q.PEAK DUO BLK ML-G10+ SERIES



385-410 Wp | 132 Cells
20.9% Maximum Module Efficiency

MODEL Q.PEAK DUO BLK ML-G10+



Breaking the 20% efficiency barrier

QANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.



A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty¹.



Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology² and Hot-Spot Protect.



Extreme weather rating

High-tech aluminium alloy frame, certified for high snow (5400Pa) and wind loads (4000 Pa).



Innovative all-weather technology

Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



The most thorough testing programme in the industry

Qcells is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.

¹ See data sheet on rear for further information.
² APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96 h)

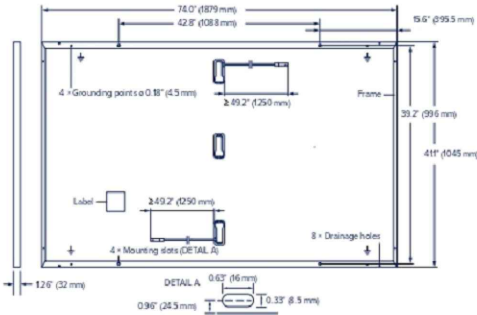
The ideal solution for:
Rooftop arrays on residential buildings



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 anodised aluminium
Cell	6 × 22 monocrystalline QANTUM 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; (+) ≥ 49.2 in (1250 mm), (-) ≥ 49.2 in (1250 mm)
Connector	Stäubli MC4; IP68



Electrical Characteristics

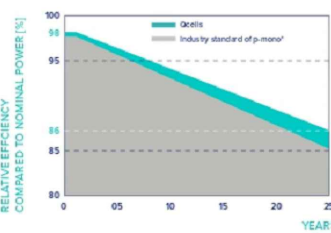
POWER CLASS			385	390	395	400	405	410
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W/-0 W)								
Minimum	Power at MPP ¹	P _{MPP} [W]	385	390	395	400	405	410
	Short Circuit Current ¹	I _{SC} [A]	11.04	11.07	11.10	11.14	11.17	11.20
	Open Circuit Voltage ¹	V _{OC} [V]	45.19	45.23	45.27	45.30	45.34	45.37
	Current at MPP	I _{MPP} [A]	10.59	10.65	10.71	10.77	10.83	10.89
	Voltage at MPP	V _{MPP} [V]	36.36	36.62	36.88	37.13	37.39	37.64
	Efficiency ¹	η [%]	≥ 19.6	≥ 19.9	≥ 20.1	≥ 20.4	≥ 20.6	≥ 20.9

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

Power at MPP	P _{MPP}	[W]	288.8	292.6	296.3	300.1	303.8	307.6
Short Circuit Current	I _{SC}	[A]	8.90	8.92	8.95	8.97	9.00	9.03
Open Circuit Voltage	V _{OC}	[V]	42.62	42.65	42.69	42.72	42.76	42.79
Current at MPP	I _{MPP}	[A]	8.35	8.41	8.46	8.51	8.57	8.62
Voltage at MPP	V _{MPP}	[V]	34.59	34.81	35.03	35.25	35.46	35.68

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

Qcells PERFORMANCE WARRANTY

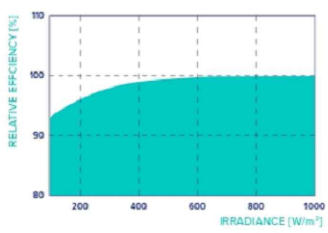


At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organisation of your respective country.

¹Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

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

UL 61730, CE-compliant,
Quality Controlled PV - TÜV Rheinland,
IEC 61215:2016, IEC 61730:2016,
U.S. Patent No. 9,893,215 (solar cells).



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.
Hanshi Q CELLS America Inc. 400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL: +1 949 748 99 99 | EMAIL: hq-enquiry@qcells.com | WEB: www.qcells.com



Specifications subject to technical changes © Qcells Q.PEAK DUO BLK ML-G10+ series_385-410_2023-01_Rev03_UA



DEL MAR, CA 92014, USA

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SHEET NAME

SPEC SHEETS

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-6



US DATA SHEET



IQ8M and IQ8A 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.



Connect PV modules quickly and easily to the IQ8 Series Microinverters that have integrated MC4 connectors.



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.



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

* Meets UL 1741 only when installed with IQ System Controller 2.
** IQ8M and IQ8A support split-phase, 240 V installations only.

IQ8MA-MC4-DSH-00205-2.0-EN-US-2023-11-03

IQ8M and IQ8A Microinverters

INPUT DATA (DC)	UNITS	IQ8M-72-M-US	IQ8A-72-M-US
Commonly used module pairings ¹	W	260–460	295–500
Module compatibility		To meet compatibility, PV modules must be within the following maximum input DC voltage and maximum module I _{sc} . Module compatibility can be checked at https://enphase.com/installers/microinverters/calculator	
MPPT voltage range	V	30–45	32–45
Operating range	V		16–58
Minimum/Maximum start voltage	V		22/58
Maximum input DC voltage	V		60
Maximum continuous input DC current	A		12
Maximum input DC short-circuit current	A		25
Maximum module I _{sc}	A		20
Overvoltage class DC port			II
DC port backfeed current	mA		0
PV array configuration		1 x 1 ungrounded array; no additional DC side protection required; AC side protection requires max 20 A per branch circuit	
OUTPUT DATA (AC)	UNITS	IQ8M-72-M-US	IQ8A-72-M-US
Peak output power	VA	330	366
Maximum continuous output power	VA	325	349
Nominal grid voltage (L-L)	V		240, split-phase (L-L), 180°
Minimum and Maximum grid voltage ²	V		211–264
Maximum continuous output current	A	1.35	1.45
Nominal frequency	Hz		60
Extended frequency range	Hz		47–68
AC short-circuit fault current over three cycles	A _{max}		2
Maximum units per 20 A (L-L) branch circuit ³			11
Total harmonic distortion	%		<5
Overvoltage class AC port			III
AC port backfeed current	mA		30
Power factor setting			1.0
Grid-tied power factor (adjustable)			0.85 leading ... 0.85 lagging
Peak efficiency	%	97.8	97.7
CEC weighted efficiency	%	97.5	97
Nighttime power consumption	mW	21	22
MECHANICAL DATA			
Ambient temperature range		-40°C to 60°C (-40°F to 140°F)	
Relative humidity range		4% to 100% (condensing)	
DC connector type		Stäubli MC4	
Dimensions (H × W × D)		212 mm (8.3") × 175 mm (6.9") × 30.2 mm (1.2")	
Weight		1.1 kg (2.43 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 enforced DC/AC ratio.
(2) Nominal voltage range 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.

IQ8MA-MC4-DSH-00205-2.0-EN-US-2023-11-03

IQ8M and IQ8A Microinverters

COMPLIANCE	
Certifications	CA Rule 21 (UL 1741-SA), UL 62109-1, IEEE 1547:2018 (UL 1741-SB 3rd Ed.), FCC Part 15 Class B, IEC61000-3 Class B, CAN/CSA-C22.2 NO. 107.1-01 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 C22.1-2018 Rule 84-218 rapid shutdown of PV Systems, for AC and DC conductors, when installed according to the manufacturer's instructions.

IQ8MA-MC4-DSH-00205-2.0-EN-US-2023-11-03



DEL MAR, CA 92014, USA

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SHEET NAME

SPEC SHEETS

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-7



DATASHEET



X-IQ-AMI-240-5
X-IQ-AMI-240-5C

IQ Combiner 5/5C

The IQ Combiner 5/5C consolidates interconnection equipment into a single enclosure and streamlines IQ Series Microinverters and IQ Gateway installation by providing a consistent, pre-wired solution for residential applications. IQ Combiner 5/5C uses wired control communication and is compatible with IQ System Controller 3/3G and IQ Battery 5P.

The IQ Combiner 5/5C, along with IQ Series Microinverters, IQ System Controller 3/3G, and IQ Battery 5P provides you with a complete grid-agnostic Enphase Energy System.



IQ Series Microinverters
The high-powered smart grid-ready IQ Series Microinverters (IQ6, IQ7, and IQ8 Series) dramatically simplify the installation process



IQ System Controller 3/3G
Provides microgrid interconnection device (MID) functionality by automatically detecting grid failures and seamlessly transitioning the home energy system from grid power to backup power



IQ Battery 5P
Fully integrated AC battery system. Includes six field-replaceable IQ8D-BAT Microinverters



IQ Load Controller
Helps prioritize essential appliances during a grid outage to optimize energy consumption and prolong battery life



5-year
limited
warranty



LISTED

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IOC-S-5C-DSH-00007-2.0-EN-US-2023-09-27

IQ Combiner 5/5C

MODEL NUMBER	
IQ Combiner 5 (X-IQ-AMI-240-5)	IQ Combiner 5 with IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSIC12.20 ±0.5%), consumption monitoring (± 2.5%) and IQ Battery monitoring (±2.5%). Includes a silver solar shield to deflect heat
IQ Combiner 5C (X-IQ-AMI-240-5C)	IQ Combiner 5C with IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 ±0.5%), consumption monitoring (±2.5%) and IQ Battery monitoring (±2.5%). Includes Enphase Mobile Connect cellular modem (CELLMODEM-MI-06-SP-05) ¹ . Includes a silver solar shield to deflect heat
WHAT'S IN THE BOX	
IQ Gateway printed circuit board	IQ Gateway is the platform for total energy management for comprehensive, remote maintenance and management of the Enphase IQ System
Busbar	125A busbar with support for 1 x IQ Gateway breaker and 4 x 20A breaker for installing IQ Series Microinverters and IQ Battery 5P
IQ Gateway breaker	Circuit breaker, 2-pole, 10 A/15 A
Production CT	Prewired revenue-grade solid core CT, accurate up to 0.5%
Consumption CT	Two consumption metering clamp CTs, shipped with the box, accurate up to 2.5%
IQ Battery CT	One battery metering clamp CT, shipped with the box, accurate up to 2.5%
CTRL board	Control board for wired communication with IQ System Controller 3/3G and the IQ Battery 5P
Enphase Mobile Connect (only with IQ Combiner 5C)	4G-based LTE-M1 cellular modem (CELLMODEM-MI-06-SP-05) with a 5-year T-Mobile data plan
Accessories kit	Spare control headers for CTRL board
ACCESSORIES AND REPLACEMENT PARTS (NOT INCLUDED, ORDER SEPARATELY)	
CELLMODEM-MI-06-SP-05	4G-based LTE-M1 cellular modem with a 5-year T-Mobile data plan
CELLMODEM-MI-06-AT-05	4G-based LTE-M1 cellular modem with a 5-year AT&T data plan
Circuit breakers (off-the-shelf)	Supports Eaton BR21Q, BR21S, BR220, BR230, BR24Q, BR250, and BR260 circuit breakers Supports Eaton BR220B, BR230B, and BR240B circuit breakers compatible with hold-down kit
Circuit breakers (provided by Enphase)	BRK-10A-2-240V, BRK-15A-2-240V, BRK-20A-2P-240V, BRK-15A-2P-240V-B, and BRK-20A-2P-240V-B (More details in "Accessories" section)
XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 5/5C
XA-ENV2-PCBA-5	IQ Gateway replacement printed circuit board (PCB) for Combiner 5/5C
X-IQ-NA-HD-125A	Hold-down kit compatible with Eaton BR-B series circuit breakers (with screws)
ELECTRICAL SPECIFICATIONS	
Rating	80 A
System voltage	120/240 VAC, 60 Hz
Busbar rating	125 A
Fault current rating	10 kAIC
Maximum continuous current rating (input from PV/storage)	64 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series distributed generation (DG) breakers only (not included)
Maximum total branch circuit breaker rating (input)	80 A of distributed generation/95 A with IQ Gateway breaker included
IQ Gateway breaker	10 A or 15 A rating GE/Siemens/Eaton included
Production metering CT	200 A solid core pre-installed and wired to IQ Gateway
Consumption monitoring CT (CT-200-CLAMP)	A pair of 200 A clamp-style current transformers is included with the box
IQ Battery metering CT	200 A clamp-style current transformer for IQ Battery metering, included with the box

¹ 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.)

IOC-S-5C-DSH-00007-2.0-EN-US-2023-09-27

MECHANICAL DATA	
Dimensions (WxHxD)	37.5 cm x 49.5 cm 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 48°C (-40°F 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
Communication (In-premise connectivity)	Built-in CTRL board for wired communication with IQ Battery 5P and IQ System Controller 3/3G. Integrated Power Line Communication for IQ Series Microinverters
Altitude	Up to 2,600 meters (8,530 feet)
COMMUNICATION INTERFACES	
Integrated Wi-Fi	802.11b/g/n (dual band 2.4 GHz/5 GHz), for connecting the Enphase cloud via the internet
Wi-Fi range (recommended)	10 m
Bluetooth	BLE4.2, 10 m range to configure Wi-Fi SSID
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included), for connecting to the Enphase Cloud via the Internet
Mobile Connect	CELLMODEM-MI-06-SP-05 or CELLMODEM-MI-06-AT-05 (included with IQ Combiner 5C)
Digital I/O	Digital input/output for grid operator control
USB 2.0	For Mobile Connect
Access point (AP) mode	For connection between the IQ Gateway and a mobile device running the Enphase Installer App
Metering ports	Up to two Consumption CTs, one IQ Battery CT, and one Production CT
Power line communication	90-110 kHz
Web API	Refer to https://developer-v4.enphase.com
Local API	Refer to guide for local API
COMPLIANCE	
IQ Combiner	UL 1741, CAN/CSA C22.2 No. 107.1, Title 47 CFR, Part 15, Class B, ICES 003
IQ Gateway	UL 60601-1/CAN/CSA 22.2 No. 61010-1, IEEE 1547:2018 (UL 1741-SB, 3 rd Ed.) IEEE 2030.5/CSP-Compliant Production metering: ANSI C12.20 accuracy class 0.5 (PV production)
COMPATIBILITY	
IQ System Controller 3/3G	SC200D111C240US01, SC200G111C240US01
IQ Battery 5P	IQBATTERY-5P-IP-NA
Microinverter	IQ6, IQ7, and IQ8 Series Microinverters



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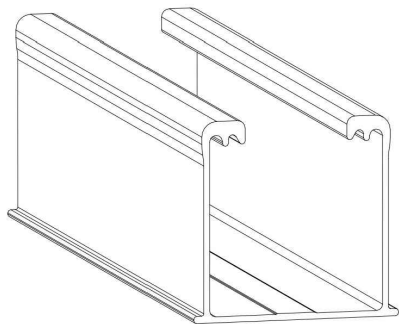
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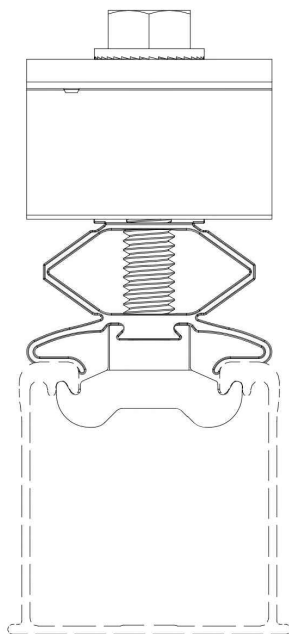
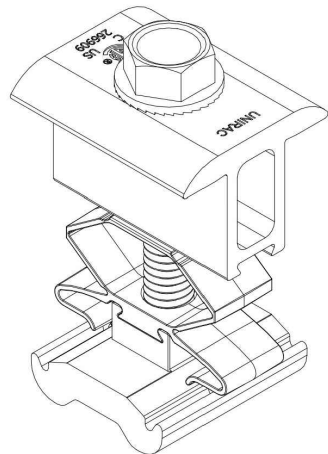
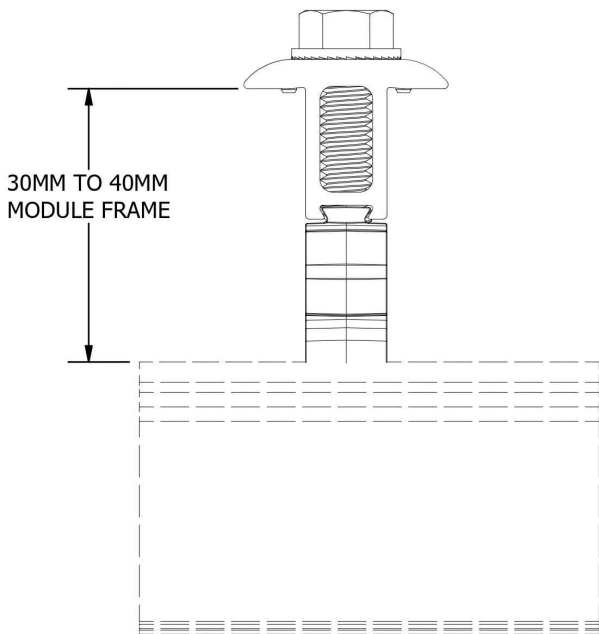
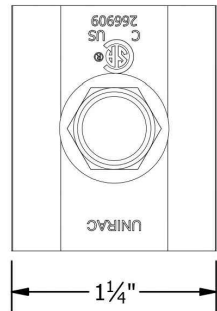
SHEET NUMBER

PV-8

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"
096RLM1	NXT UMOUNT RAIL 96" MILL	96"
096RLD1	NXT UMOUNT RAIL 96" DARK	96"
185RLM1	NXT UMOUNT RAIL 185" MILL	185"
185RLD1	NXT UMOUNT RAIL 185" DARK	185"



PART # TABLE	
P/N	DESCRIPTION
CCLAMPM1	NXT COMBO CLAMP - MILL
CCLAMPD1	NXT COMBO CLAMP - DARK



1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

PRODUCT LINE:	NXT UMOUNT
DRAWING TYPE:	PART DETAIL
DESCRIPTION:	RAIL
REVISION DATE:	2/29/2024

DRAWING NOT TO SCALE
ALL DIMENSIONS ARE
NOMINAL

PRODUCT PROTECTED BY
ONE OR MORE US PATENTS

LEGAL NOTICE

NU-P01

SHEET

1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

PRODUCT LINE:	NXT UMOUNT
DRAWING TYPE:	PART & ASSEMBLY
DESCRIPTION:	COMBO CLAMP
REVISION DATE:	2/29/2024

DRAWING NOT TO SCALE
ALL DIMENSIONS ARE
NOMINAL

PRODUCT PROTECTED BY
ONE OR MORE US PATENTS

LEGAL NOTICE

NU-A03

SHEET



DEL MAR, CA 92014, USA

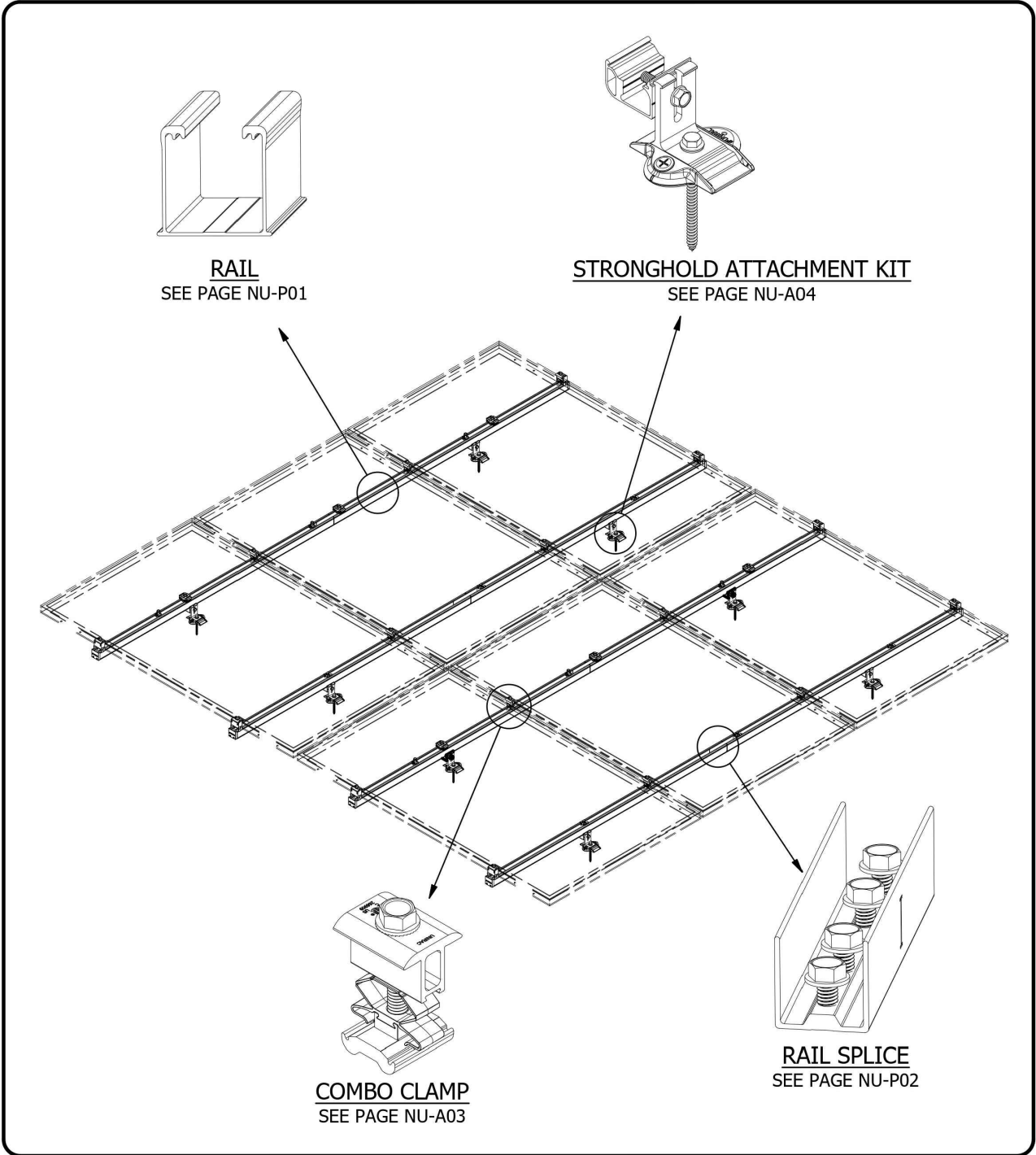
DESIGN SUPPORT DAY OF INSTALL:
CHAT.POWUR.COM

VERSION		
DESCRIPTION	DATE	REV
INITIAL RELEASE	08-29-2024	UR
REVISION	10-05-2024	A

PROJECT NAME

AARON SHIRA
82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME
SPEC SHEETS
SHEET SIZE
ANSI B 11" X 17"
SHEET NUMBER
PV-9





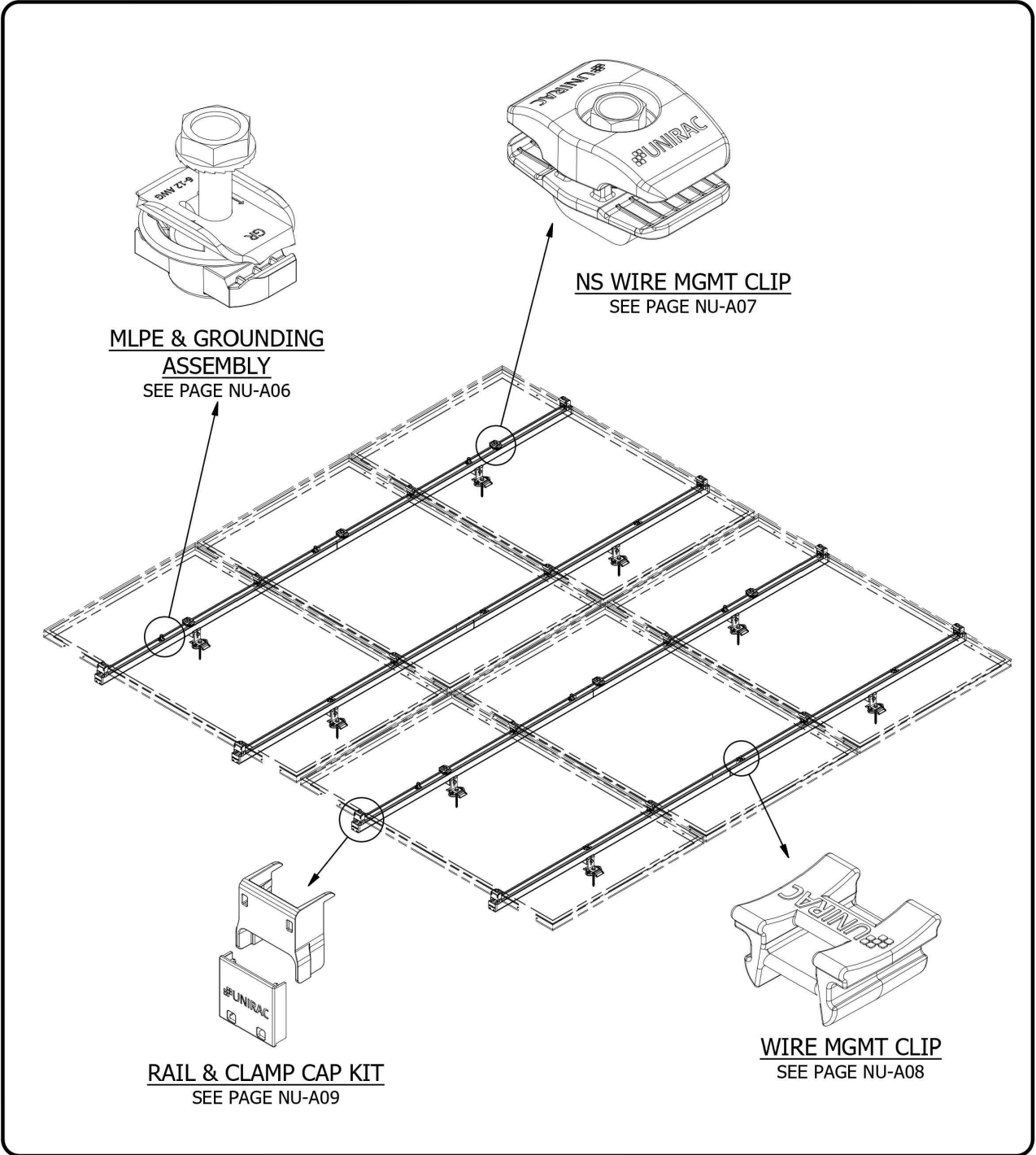
1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

PRODUCT LINE:	NXT UMount
DRAWING TYPE:	PART & ASSEMBLY
DESCRIPTION:	MODULE ASSEMBLY
REVISION DATE:	2/29/2024

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL
PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE

NU-A01

SHEET





1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

PRODUCT LINE:	NXT UMount
DRAWING TYPE:	PART & ASSEMBLY
DESCRIPTION:	MODULE ASSEMBLY
REVISION DATE:	2/29/2024

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL
PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE

NU-A02

SHEET



DEL MAR, CA 92014, USA

DESIGN SUPPORT DAY OF INSTALL:
CHAT.POWUR.COM

VERSION		
DESCRIPTION	DATE	REV
INITIAL RELEASE	08-29-2024	UR
REVISION	10-05-2024	

PROJECT NAME

AARON SHIRA
82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME
SPEC SHEETS
SHEET SIZE
ANSI B 11" X 17"
SHEET NUMBER
PV-9.1

S-5![®]

The Right Way![™]

NEW

NOW AVAILABLE
IN ALUMINUM

ProteaBracket[™]

ProteaBracket[™]

A versatile bracket for
mounting solar PV to
trapezoidal roof profiles

ProteaBracket[™] is now made in aluminum. Still the most versatile trapezoidal metal roof attachment solution on the market, the S-5! ProteaBracket just got better!

The bracket features an adjustable attachment base and module attachment options to accommodate different roof profile dimensions and mounting options.

Our pre-applied EPDM gasket with peel and stick adhesive makes installation a snap, ensuring accurate and secure placement the first time.

With no messy sealants, faster installation, and a weather-proof fit, ProteaBracket offers you the most versatile solar attachment solution available.

ProteaBracket* can be used for
rail mounting or "direct-attach"
with S-5! PVKIT[™]

Features and Benefits

- 34% lighter - saves on shipping
- Stronger L-Foot[™]
- Load-tested for engineered application
- Corrosion-resistant materials
- Adjustable - Fits rib profiles up to 3"
- Peel-and-Stick prevents accidental shifting during installation
- Fully pre-assembled
- 25-year warranty*

*When ProteaBracket is used in conjunction with the S-5! PVKIT, an additional nut is required during installation.

*See www.S-5.com for details.



888-825-3432 | www.S-5.com

S-5![®]

The Right Way![™]

ProteaBracket[™] is the perfect solar attachment solution for most trapezoidal rib, exposed-fastened metal roof profiles!

ProteaBracket[™] is compatible with common metal roofing materials and comes with a pre-applied EPDM gasket on the base.

Note: All four pre-punched holes must be used to achieve tested strength. Fasteners are provided.

For design assistance, ask your distributor, or visit www.S-5.com for the independent lab test data that can be used for load-critical designs and applications. Also, please visit our website for more information including metallurgical compatibilities and specifications.

S-5![®] holding strength is unmatched in the industry.

Multiple Attachment Options:



Side
Mount Rail



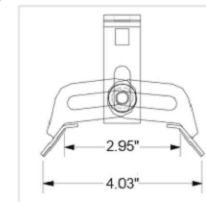
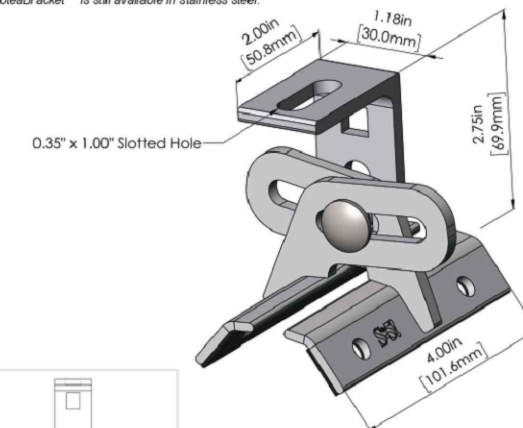
Bottom
Mount Rail



w/ S-5!
PVKIT[™]
(rail-less)

ProteaBracket[™]

ProteaBracket[™] is still available in stainless steel.



ProteaBracket fits profiles
up to 3 inches

INSTALLATION:

No surface preparation needed. (1) Wipe away excess oil and debris. (2) Peel off adhesive release paper. (3) Align and mount bracket directly onto crown of panel. (4) Secure ProteaBracket through pre-punched holes, using piercing-point S-5! screws.



ProteaBracket[™] and the S-5! PVKIT[™] 2.0
mounted on a trapezoidal roof profile

S-5![®] Warning! Please use this product responsibly!

Products are protected by multiple U.S. and foreign patents. For published data regarding holding strength, bolt torque, patents, and trademarks, visit the S-5! website at www.S-5.com.

Copyright 2019, Metal Roof Innovations, Ltd. S-5! products are patent protected. S-5! aggressively protects its patents, trademarks, and copyrights. Version 07089.

Distributed by



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DESIGN SUPPORT DAY OF INSTALL:
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VERSION

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PROJECT NAME

AARON SHIRA
82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME

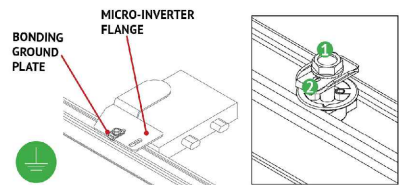
SPEC SHEETS

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-10



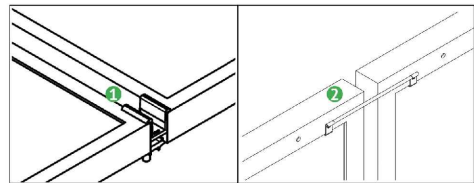
BONDING MICROINVERTER MOUNT

- Serrations on the bolt head remove the anodization of MLPE flange and bonds.
- Tabs on the stainless steel ground plate remove anodization on the rail and bonds.

NOTE: See Page 18 for installation details



- If loose components or loose fasteners are found during periodic inspection, re-tighten immediately.
- Any components showing signs of corrosion or damage that compromise safety shall be replaced immediately.

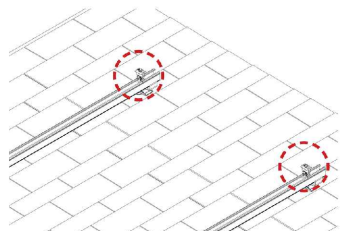


ALTERNATE ROW-TO-ROW BONDING PATHS

- Row-to-row module bonding is accomplished with bonding clamp with 2 integral bonding pins.
- Alternate method by connecting clips on either module to complete the bonding path.

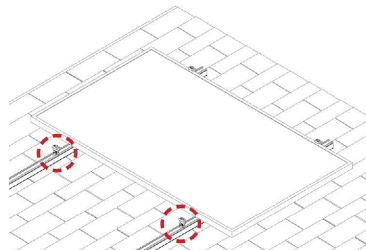
NOTE:

- See Page 17 for installation details
- Row-to-row module bonding certified for single-use only



INSTALL COMBO (END) CLAMPS:

Install Combo Clamps starting at the aligned end of rails.



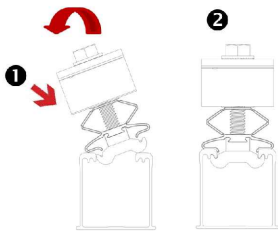
INSTALL COMBO (MID) CLAMPS:

Clamp assemblies may be positioned in rail near point of use prior to module placement.

NOTE: The clamps may be installed above splice locations.

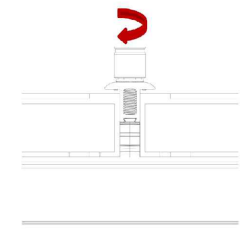
PRO TIP

Press the clamp assembly slightly into the rail to allow for easy sliding of clamp in the rail.



INSERT COMBO CLAMP:

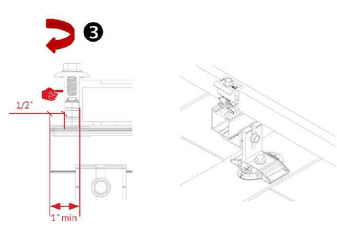
Insert Combo Clamp from one side of the rail nut into the rail and click in the other side. Ensure that the rail nut profile is seated in the rail profile.



PLACE ADJACENT MODULE AGAINST CLAMPS:

Modules must be tight against clamps with no gaps. Tighten bolt to required torque.

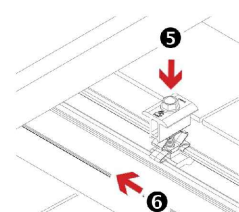
TORQUE VALUE: 15 ft-lbs.



INSTALL END MODULE: Position first module onto rails and engage module frame with end clamps. Hold clamp in place against module while tightening bolt.

TORQUE VALUE: 15 ft-lbs.

NOTE: Ensure a minimum distance of 1" from the end of the module to end of rail.



INSTALL REMAINING MODULES:

Proceed with module installation. Engage each clamp with previously positioned module.

NOTE: Combo clamps are capable of securing module frames whose thickness varies from 30mm to 40mm.

The NXT UMOUNT system has been certified and listed to the UL 2703 standard (Rack Mounting Systems and Clamping Devices for Flat-Plate Photovoltaic Modules and Panels). This standard included electrical grounding, electrical bonding, mechanical load and fire resistance testing.

SYSTEM LEVEL FIRE CLASSIFICATION

The system fire class rating requires installation in the manner specified in the NXT UMOUNT Installation Guide. NXT UMOUNT has been classified to the system level fire portion of UL 2703. NXT UMOUNT has achieved system level performance for steep sloped roofs and low sloped roofs. System level fire performance is inherent in the NXT UMOUNT design, and no additional mitigation measures are required. See table below for definition of steep sloped and low sloped roofs. The system is to be mounted over fire resistant roof covering rated for the application. There is no required minimum or maximum height limitation above the roof deck to maintain the system fire rating for NXT UMOUNT. Approved Module Types & System Level Fire Ratings are listed below:

Roof Type	Module Type	System Level Fire Rating	Rail Direction	Module Orientation
Steep Slope - roof pitches $\geq$ 2 in/ft	Type 1, 2, 3 with metal frame, 10 with metal frame, 19, 22, 25, 29, & 30	Class A	Parallel OR Perpendicular to Ridge	Landscape OR Portrait
Low Slope - roof pitches $<$ 2in/ft	Type 1, 2, 29, & 30			

MECHANICAL LOAD TEST MODULES

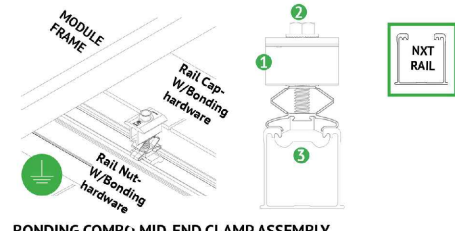
The modules selected for UL 2703 mechanical load testing were selected to represent the broadest range possible for modules on the market. The tests performed covers module frame thicknesses greater than or equal to 1.0 mm, single and double wall frame profiles (some complex frame profiles could require further analysis to determine applicability), and clear and dark anodized aluminum frames. PV modules may have a reduced load rating, independent of the NXT UMOUNT rating. Please consult the PV module manufacturer's installation guide for more information.

Tested Module	Design Load Ratings	Tested Loads	Tested Module Area
SunPower SPR-A440 -COM	Down: 50 psf, Up: 50 psf, Slope: 15 psf	Down: 75 psf, Up: 75 psf, Slope: 23 psf	21.86 sq ft
Jinko JKM-xxxM 72HL4-V	Down: 39.47 psf, Up: 22.28 psf, Slope: 8 psf	Down: 59.20 psf, Up: 33.42 psf, Slope: 12 psf	27.76 sq ft
Q Cells Q Peak Duo XL-G11.3/BFG	Down: 37.06 psf, Up: 20.97 psf, Slope: 7.53 psf	Down: 55.6 psf, Up: 31.46 psf, Slope: 11.3 psf	29.49 sq ft

UL2703 CERTIFICATION MARKING:

Unirac NXT UMOUNT is listed to UL 2703. Certification marking is embossed on all Combo Clamps as shown. Labels with additional certification information are provided with clamps and must be applied to the NXT UMOUNT Rail at the edge of the array.

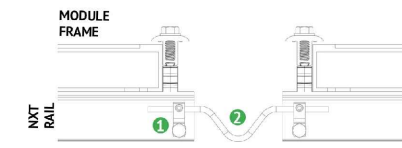
Note: This racking system may be used to ground and/or mount a PV module complying with UL1703/UL61730 only when the specific module has been evaluated for grounding and/or mounting in compliance with the included instructions.



BONDING COMBO MID-END CLAMP ASSEMBLY

- Aluminum combo mid-end clamp cap with stainless steel bonding pins that pierce module frame anodization to bond module to module through clamp
- Stainless steel bolt bonds aluminum clamp to stainless steel Hex bolt
- Aluminum combo mid-end clamp rail nut with stainless steel bonding pins that pierce rail anodization to bond module to module through clamp

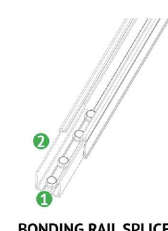
NOTE: See Page 20 for installation details.



BONDING BETWEEN THERMAL BREAKS

- Lug is connected at the end of each thermal break to the rail.
- Solid copper wire is connected across the gap to bond the two ends.

NOTE: See Page 5 for installation details.

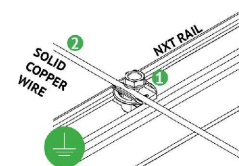


BONDING RAIL SPLICE

- Bonding Hardware creates bond between Splice bar and each rail section.
- Aluminum splice bar spans across rail gap to create rail to rail bond. Rail on at least one side of splice will be grounded.

NOTE:

- See Page 16 for installation details
- Splice certified for single-use only



RACK SYSTEM GROUNDING

- Tabs on the grounding plate pierce anodization on the rail to bond rail to ground wire.
- Solid copper wire connected to lug is routed to provide final system ground connection.

NOTE: See Page 17 for installation details and alternate racking system grounding methods.



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DESIGN SUPPORT DAY OF INSTALL:
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VERSION

DESCRIPTION	DATE	REV
INITIAL RELEASE	08-29-2024	UR
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PROJECT NAME

AARON SHIRA
82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME

SPEC SHEETS

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-11



MASTER CONTRACT: 0000266909
REPORT: 70131735
PROJECT: 80198760

EDITION

Edition	Issued On	Project	Location	Prepared By	Authorized By
1	September 20, 2017	70131735	Irvine	Michael Hoffnagle	Michael Hoffnagle
30	March 1, 2024	80196316	Irvine	Michael Hoffnagle	Michael Hoffnagle
31	March 26, 2024	80198760	Irvine	Michael Hoffnagle	Michael Hoffnagle

CONTENTS

Certificate of Compliance + Supplement - Page 1 to
Description and Tests - Page 1 to Certificate of Compliance - Pages 1 to 12
Supplement to Certificate of Compliance - Pages 1 to 4
Description and Tests - Pages 1 to 47
Att1 Installation Manual SM– Pages 1 to 51
Att2 Schematics SM/ULA– Pages 1 to 134
Att3 Installation Manual ULA– Pages 1 to 28
Att4 RM5_ Installation Guide - 1 to 23
Att5 RMDT_ Installation Guide - 1 to 24
Att6 RM series schematics – 1 to 35
Att7 GFT Installation Guide – Pages 1 to 42
Att8 GFT HD Rail Installation - Pages 1
Att9 GFT Schematics – Pages 1 to 69
Att10 NXT UMOUNT Installation Manual – Pages 1 to 38
Att11 Schematics NXT UMOUNT – Pages 1 to 147
Att12 SM Ascender 2P Elevated Installation Manual – Pages 1 to 37
Att13 SM Ascender 2P NON Elevated Installation Manual – Pages 1 to 36
Att14 SM Ascender 1P Non Elevated Installation Manual – Pages 1 to 33
Att15 SM Ascender 1P Elevated Installation Manual – Pages 1 to 36
Att16 Schematics SM Ascender – Pages 1 to 52
Att17 SM Ascender Flush Mount Installation Manual – Pages 1 to 28
Att18 S-5 schematics and installation – Pages 1 to 19
Att19 SM NXT Tilt Leg Install Addendum – Pages 1 to 13

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Kunshan Floor 1, Building 8, Tsinghua Science Park, No 1666 Zuchongzhi Rd (S), Kunshan, Jiangsu 215347,
China
Telephone: 86-512-81868885 Fax: 86-512-81868818

Telephone: 86-512-81868885 Fax: 86-512-81868818



NXT  **UMOUNT**™

COMPATIBLE MODULES

SYSTEM CERTIFICATION

30 PAGES

Electrical Bonding and Grounding Test Modules

The list below is not exhaustive of compliant modules but shows those that have been evaluated and found to be electrically compatible with the NXT UMount system.

Manufacture	Module Model / Series	Manufacture	Module Model / Series	Manufacture	Module Model / Series
Q Cells	Plus, Pro, Peak, G3, G4, Peak G5(SC), G6(+)(SC)(AC), G7, G8(+), Plus, Pro, Peak L-G2, L-G4, L-G5 Peak L-G5, L-G6, L-G7, L-G8(BFF) QPEAK DUO (BLK)-G6+ QPEAK DUO BLK-G6+/TS QTRON M-G2+ SERIES QTRON BLK M-G2+ SERIES QPEAK DUO XL-G11.5 / BFG QPEAK DUO (BLK)-G7 QPEAK DUO L-(G7/G7.1/G7.2/G7.3/G7.7) QPEAK DUO (BLK) G8(+) QPEAK DUO L-(G8/G8.1/G8.2/G8.3) QPEAK DUO L-G8.3 (BFF/BFG/BGT) QPEAK DUO (BLK) ML-G9(+) QPEAK DUO XL-(G9/G9.2/G9.3) QPEAK DUO XL-G9.3/BFG QPEAK DUO-G10+ QPEAK DUO BLK G10(+) QPEAK DUO BLK G10+ /AC QPEAK DUO (BLK) ML-G10(+) QPEAK DUO BLK ML-G10+ / QPEAK DUO BLK ML-G10+ /TS QPEAK DUO XL-G10/G10.2/G10.3/G10.c/ G10.d QPEAK DUO XL-G10.3/BFG QPEAK DUO XL-G10.d/BFG QPEAK DUO XL-G11S QPEAK DUO XL-(G11.2/G11.3) QPEAK DUO XL-G11.3/BFG QTRON XL-G2.3/BFG	RECxxxAA (BLK/Pure/Pure-R/ Pure-RX/ Pure 2/ Pro M) RECxxxNP (N-PEAK) RECxxxNP2 (Black) RECxxxNP3 Black RECxxxPE, RECxxxPE72 RECxxxTP, RECxxxTP72 RECxxxTP2(M/BLK2) RECxxxTP25(M)72 RECxxxTP3M (Black) RECxxxTP4 (Black) All 60-cell modules RSM Series, RSM110-8-xxxBMDG SEG-xxx-BMD-HV SEG-xxx-BMD-TB SEG-XXX-BMB-TB SN72 & SN60 Series SL45-60BG/BHl SL45-60MBI-xxxZ SEG-(6PA/6PB/6MA/6MA-HV/6MB/E01/E11) SRP-(6QA/6QB) SRP-xxx-6MB-HV, SRP-320-375-BMB-HV, SRP-xxx-BMC-HV, SRP-390-450-BMA-HV, SRP-xxx-BMZ-HV, SRP-390-405-BMD-HV NU-SA & NU-SC Series SLA-M, SLA-P, SLG-M, SLG-P & BC Series SLxxx(BG/BK/BL/HC/HC+Y/HL/HM/HN/ML/ NL/NT/XX/NX/NU/QD)	Solar4America SolarEver USA Solaria Solartech SolarWorld Sonali Sun Edison Suniva Sunmac Solar SunPower Suntech Talesun Tesla	S4Axxx-108MH10BB, S4Axxx-72MH5BB SE-166*83-xxxM-120N SE-182*91-xxxM-108N PowerXT-xxxR-(AC/PD/PD) PowerXT-xxx-CPD PowerXT-xxxR-PM (AC) PowerX-400R STU HIT, STU PERC & Quantum PERC Sunmodule Protect, Sunmodule Plus/Pro SS-M-360 to 390 Series SS-M-390 to 400 Series SS-M-440 to 460 Series SS-M-430 to 460 Bifacial Series F-Series, R-Series MV Series & Optimus Series (35mm) M754SH-BB Series AC, X-Series, E-Series & P-Series SPR E20 435 COM (G4 Frame) Axxx-BLK-G-AC, SPR- Mxxx-H-AC STR STPXXXXS - B6Q/Whhh TP572, TP596, TP654, TP660 TP672, Hipor M, Smart TD6172M, TP7/G54M(H) TD7/G72M SC, SC B, SC B1, SC B2, TxxxS, TxxxH	

- The frame profile must not have any feature that might interfere with the bonding devices that are integrated into the racking system
- Use with a maximum over current protection device OCPS of 30A
- Unless otherwise noted, all modules listed above include all wattages and specific models within that series. Variable wattages are represented as "xxx"
- Items in parenthesis are those that may or may not be present in a compatible module's model ID
- Slashes "/" between one or more items indicates that either of those items may be the one that is present in a module's model ID
- **Listed models can be used to achieve a Class A fire system rating, for steep slope or low slope applications, only when modules of fire typed mentioned in Appendix A, Page 27 are used.**



DEL MAR, CA 92014, USA

DESIGN SUPPORT DAY OF INSTALL:
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VERSION

DESCRIPTION	DATE	REV
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REVISION	10-05-2024	

PROJECT NAME

AARON SHIRA
82 MEADOW LN,
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UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME

SPEC SHEETS

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-12



Certificate of Compliance

Certificate: 70131735 Master Contract: 266909
Project: 80198760 Date Issued: 2024-03-26
Issued to: Unirac
1411 Broadway NE
Albuquerque, New Mexico 87102
United States

Attention: Rob D’Anastasio

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Michael Hoffnagle
Michael Hoffnagle

PRODUCTS

C531302 POWER SUPPLIES- PHOTOVOLTAICS- - PV Racking
C531382 POWER SUPPLIES- PHOTOVOLTAICS - PV Racking and clamping systems-Certified to US Standards

SOLARMOUNT Flush-to-Roof is an extruded aluminum rail PV racking system that is installed parallel to the roof in landscape or portrait orientations. Unirac Large Array is a ground mount system using the SolarMount (SM) platform for the bonding and grounding of PV modules.

Model(s)
SM, ULA

SolarMount

The system listed is designed to provide bonding/grounding, and mechanical stability for photovoltaic modules. The system is secured to the roof with the L-Foot components through the roofing material to building structure. Modules are secured to the racking system with stainless steel or aluminum mid clamps and Aluminum end clamps. The modules are bonded to the racking system with the stainless-steel bonding



Certificate: 70131735 Master Contract: 266909
Project: 80198760 Date Issued: 2024-03-26

NXT UMOUNT

The system listed is designed to provide bonding/grounding, and mechanical stability for photovoltaic modules. The system is secured to the roof with the L-Foot components through the roofing material to building structure. Modules are secured to the racking system with aluminum mid clamps and aluminum end clamps. The modules are bonded to the racking system with bonding mid and end clamps with piercing points. Fire ratings of Class A with Type 1, 2, 3 (with metallic frame), 10(with metallic frame), 19, 22, 25, 29, or 30 for steep and low slope. Tested at 5” interstitial gap which allows installation at any stand-off height.

The grounding of the system is intended to comply with the latest edition of the National Electrical Code, to include NEC 250 & 690. Local codes compliance is required, in addition to national codes. All grounding/bonding connections are to be torqued in accordance with the Installation Manual and the settings used during the certification testing for the current edition of the project report.

NXT Tilt Legs is a flat roof configuration of the NXT UMOUNT system that utilizes an attachment variation that involves structural standoff's to achieve a range of module tilt angles. The NXT Tilt Legs installation instructions are captured in an Installation Addendum that covers both the SolarMount Tilt Legs system and the NXT Tilt Legs system. NXT Tilt Legs has mechanical load ratings independent of the NXT UMOUNT mechanical load ratings.

Latest SolarMount NXT Tilt Legs Installation Addendum revision: PUB2024JAN18

Latest NXT UMOUNT Install Manual revision: PUB2024FEB29

NXT UMOUNT UL 2703 Mechanical Load ratings for tested module area 21.86 sq ft:

NXT Systems without DTD Butyl Attachment P30817211, Rail Splice P30808218, or Rail Clamp P30817214	
Downward Design Load (lb/ft²)	113.7
Upward Design Load (lb/ft²)	51.1
Down-Slope Load (lb/ft²)	16.8

NXT Systems with DTD Butyl Attachment P30817211, Rail Splice P30808218, or Rail Clamp P30817214	
Downward Design Load (lb/ft²)	51.1
Upward Design Load (lb/ft²)	51.1
Down-Slope Load (lb/ft²)	16.8

NXT UMOUNT UL 2703 and TIL Mechanical Load ratings tested module area 27.76 sq ft:

NXT Systems without DTD Butyl Attachment P30817211, Rail Splice P30808218, or Rail Clamp P30817214	
Downward Design Load (lb/ft²)	50.1
Upward Design Load (lb/ft²)	22.2
Down-Slope Load (lb/ft²)	8.0



DEL MAR, CA 92014, USA

DESIGN SUPPORT DAY OF INSTALL:
CHAT.POWUR.COM

VERSION		
DESCRIPTION	DATE	REV
INITIAL RELEASE	08-29-2024	UR
REVISION	10-05-2024	A

PROJECT NAME
AARON SHIRA
82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME
SPEC SHEETS

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-13



February 8, 2024

Unirac, Inc.
1411 Broadway Boulevard NE
Albuquerque, New Mexico 87102
TEL: (505) 242-6411
FAX: (505)242-6512

Re.: Innova Technologies No.: 124-099-1000
Unirac NXT U-Mount Design Tool – Ohio

Attn: Engineering Services

Innova Technologies Inc. has reviewed Unirac’s NXT U-Mount design tool and analysis, including the U-Builder online tool. NXT U-mount is a proprietary system to support Photovoltaic (PV) panels on a rooftop structure.

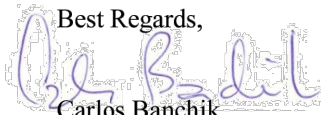
All analysis and information in the NXT design tool’s formulas and tables comply with the following:

- 2009-2024 International Building Code, by International Code Council Inc. With SEAOC PV2 provisions.
- ASCE/SEI 7-05, through 7-22 Minimum Design Loads and Other Structures, by American Society of Civil Engineers.
- Ohio Building Code (OBC) 2017 through 2024 editions
- 2005 - 2020 Aluminum Design Manual (ADM), by the Aluminum Association.

This letter certifies that the racking members' structural analysis and direct components comply with the above codes and methodologies. This Design tool does not review the existing roof structure, or the PV panels themselves.

The U-Builder tool should be used under the review of a registered design professional where required by the authority having jurisdiction.

For more information, see the construction drawings, and manufacturer installation instructions.

Best Regards,

Carlos Banchik
President & Principal
Innova Technologies, Inc.



1432 South Jones Blvd.
Las Vegas, NV 89146
www.innovanv.com

T: 702.220.6640
F: 702.220.7740



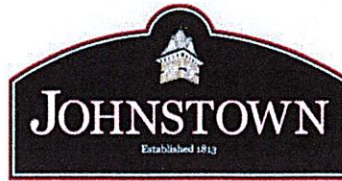
DEL MAR, CA 92014, USA

DESIGN SUPPORT DAY OF INSTALL:
CHAT.POWUR.COM

VERSION		
DESCRIPTION	DATE	REV
INITIAL RELEASE	08-29-2024	UR
REVISION	10-05-2024	A

PROJECT NAME
AARON SHIRA
82 MEADOW LN,
JOHNSTOWN, OH 43031, USA
UTILITY: AEP
APN: 05318082200000
AHJ: VILLAGE OF JOHNSTOWN

SHEET NAME
SPEC SHEETS
SHEET SIZE
ANSI B 11" X 17"
SHEET NUMBER
PV-14



CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 9-10-20 Date: 9 / 9 / 24

FEES:

Base Fee: \$ 300

Total Fee Amount: \$ _____ Paid: Check # _____ Cash: \$ _____

(PLEASE PRINT)

1. Applicant: OVERMYER JEWELERS Phone: (614) 257-8032
2. Property Address: 24 S. MAIN ST City: JOHNSTOWN State: OH Zip: 43031
3. Applicant's E-mail: thomas.overmyer@gmail.com
4. Business Owner's Name: THOMAS S. OVERMYER Phone: (614) 257-8032
5. Contractor's Name: _____ Phone: () - _____
6. Principal Business Activity: RETAIL JEWELRY SALES
7. Existing Use of Property: VACANT (WAS A CHURCH)
8. Square Footage of Proposed Building or Business: 1920 sq. ft.
9. Zoning District: _____ Number of Off-Street Parking Spaces: _____
10. Estimated Cost of Improvements: < \$ 5000

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- (Conditional) Eight full sets (11x17) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed buildings and alterations are required. Attach any requested, supplemental or necessary documentation. **(Required only if asked for by the Zoning Inspector.)**

List of Materials that will be used on the project:

1. PAINT
2. ALARM SYSTEM
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

List of Contiguous Neighbors and Addresses:

- | | | | |
|------------------------------------|---------------------------------|-----------|--------------|
| 1. <u>Antiques on Main</u> | <u>20 S. Main St. Johnstown</u> | <u>OH</u> | <u>43031</u> |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 2. <u>Mystic Mutt Grooming</u> | <u>28 S. Main St Johnstown</u> | <u>OH</u> | <u>43031</u> |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 3. <u>24/7 Garage Sale</u> | _____ | _____ | _____ |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 4. <u>Leonards Coffee Roasting</u> | <u>32 S. Main St. Johnstown</u> | <u>OH</u> | <u>43031</u> |
| Neighbor's Name | Neighbor's Address | State | Zip Code |

The undersigned is applying for a Certificate of Appropriateness Permit for the following use: said permit is to be issued based on the information contained within this application. The applicant hereby certifies that all information and attachments to this application are true & correct and agrees to follow all applicable laws.

Applicant's Signature: x _____ Date: / /

OFFICE USE ONLY:

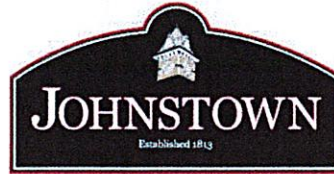
Date Received in Office: 9 / 9 / 24 By: T. Wymer

Date of Planning and Zoning Commission Meeting: 9 / 24 / 2024

Date Permit Approved or Denied by Planning Commission: / /

Conditions Necessary for Approval: _____

City Manager Signature: x _____



SIGN PERMIT APPLICATION: CHAPTER #1177

Application Number: 9-10-25 Date: 9 / 9 / 24

FEES:

Base fee: \$150 - Sign size in sq. ft.: _____ @ \$.50 = \$ _____

Total Amount: \$ _____ Paid: Check #: _____ Cash: \$ _____

1. Applicant: Thomas Overmyer
2. Address: 50 Determine Ln City: Pataskala State: OH Zip: 43062
3. Phone: (614) 257 - 8032
4. E-mail Address: thomas.overmyer@gmail Zoning District: _____
5. Business Address: 24 S. Main St Johnstown, OH. 43031
6. Existing Use of Property: Vacant (prev. church)
7. Proposed Use of Property: Retail Jewelry Sales
8. Type of Sign:
 - Canopy / Awning: _____ Size: _____
 - Identification: (Name & Address of business only): Size: 27 W x 15.85" H
 - Marquee: _____ Size: _____
 - Projecting: _____ Size: _____
 - Wall: _____ Size: _____
 - Monument: _____ Size: _____
 - Other: HRS OF OPERATION & temp Size: _____
10" x 10" "coming soon"
9. Wording on Sign: Overmyer Jewelers
10. Elevation: Length: _____ ft. Width: _____ ft. Height: _____ ft.

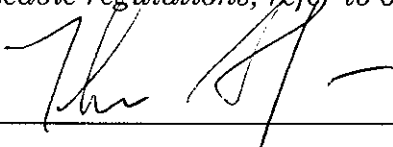
11. Contractor Information:

Name: BRANHAM SIGNS
Address: 127 CYPRESS ST SW City: REYNOLDSBURG State: OH Zip: 43068
E-mail: ymiller@branhamsign.com
Contractor Business Phone Number: (740) 964-9550

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- Attach two (2) sets of sign drawings, scaled and with colors of all signs and their locations on the building. If the sign is free standing include a plot plan.
- Attach Certificate of Liability Insurance.

The undersigned is applying for a Sign Permit for the following use: said permit to be issued based on information contained within this application. The applicant hereby certifies that all information and attachments to this application are true and correct and agrees to follow all applicable regulations, refer to ordinance #1177.01 through #1177.99.

Applicant's Signature:  Date: / /

OFFICE USE ONLY:

Date Received in Office: 9 / 9 / 29

Received By: J. Wymer

Date Permit Issued: / / By:

Date of Inspection If Required: / / By:

Zoning Code Enforcement Official: x

Additional Comments:

NORTH WINDOW

RIGHT WINDOW

COROPLAST

DOOR

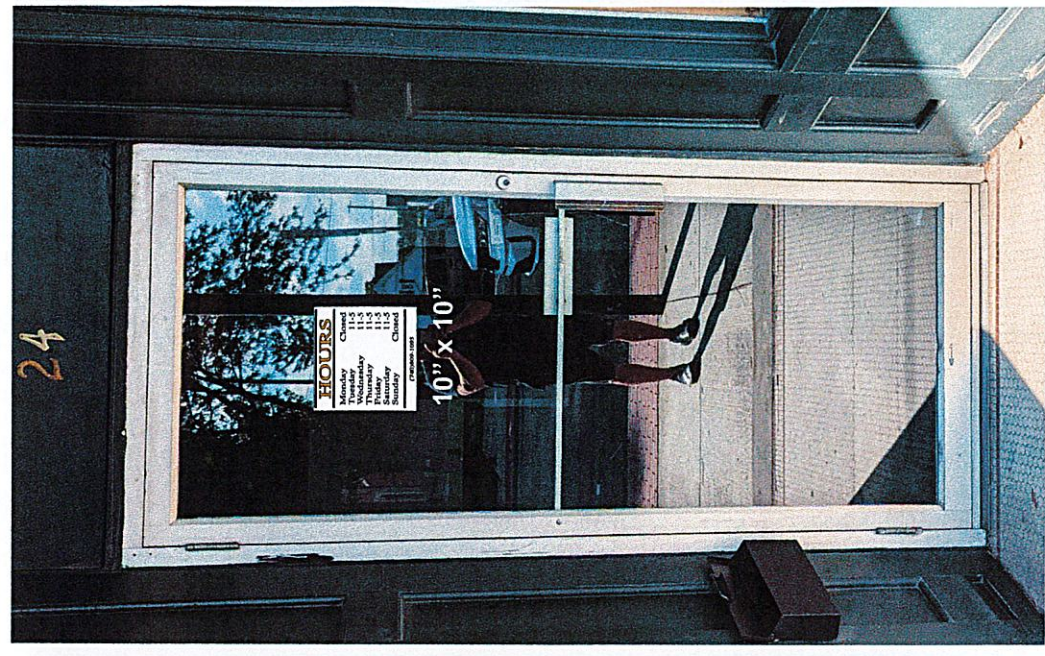


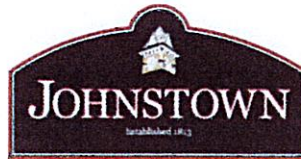
NORTH WINDOW

RIGHT WINDOW

COROPLAST

DOOR





**RESIDENTIAL OR COMMERCIAL DEMOLITION PERMIT
APPLICATION**

Application Number: 9-18-10 Date: 9 / 12 / 24

FEES:

Single Family: \$700 per structure (owner shall be eligible to receive a \$500.00 refund following the Final Inspection to ensure lot space is restored to a green space in a timely manner.)

Non-Single Family: \$1,000 per structure (owner shall be eligible to receive a \$500.00 refund following the Final Inspection to ensure lot space is restored to a green space in a timely manner.)

Total Fee Amount: \$ 700.00 Paid: Check # 347 / Cash: \$

1. Applicant: Troy Sexton E-mail: HP126042@GMAIL.COM
2. Contractor: Troy Sexton Phone: (740) 649-6496
3. Property Address: 356 SOUTH MAIN STREET Johnstown, Ohio
4. Existing Use of Property: PRIMARY RESIDENCE Square Footage:
5. Estimated Cost of Demolition: \$ N/A
6. Proposed Use of Property After Demolition: BACK YARD
7. Attach any requested, supplemental, or necessary documentation or information and proof of insurance.

*** The undersigned is applying for a Demolition Permit for the following use to be issued based on the information contained within this application. The applicant hereby certifies that all information and attachments to this application are true & correct and agrees to follow all applicable regulations.

Applicant's Signature: [Signature] Date: 9 / 12 / 24

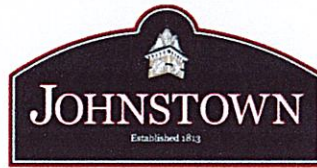
Application will be made to the zoning office including the submission of Liability Insurance by the owner/contractor. Upon successful completion of the demolition, the owner shall be eligible to receive a \$500.00 refund following the Final Inspection to ensure lot space is restored to a green space in a timely manner.

OFFICE USE ONLY:

Date Received in Office: 9 / 12 / 24 By: [Signature] chk # 347
Date Permit Issued: / / By:
Date of Final Inspection: / / By:
Date of Refund if Applicable: / / By:

SEP 12 2024

P A I D



CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 9-18-5 Date: 9/12/24
JOHNSTOWN, OHIO

FEES:

SEP 12 2024

Base Fee: \$ 300

Total Fee Amount: \$ 300 PAID Paid: Check # 346 Cash: \$ _____

(PLEASE PRINT)

1. Applicant: TROY SEXTON Phone: (740) 649-6496
2. Property Address: 356 S. MAIN ST. City: JOHNSTOWN State: OH Zip: 43031
3. Applicant's E-mail: HP1260ALE@GMAIL.COM
4. Business Owner's Name: N/A Phone: () -
5. Contractor's Name: N/A Phone: () -
6. Principal Business Activity: N/A
7. Existing Use of Property: BACK YARD
8. Square Footage of Proposed Building or Business: 120 sq. ft. 12'10"
9. Zoning District: _____ Number of Off-Street Parking Spaces: N/A
10. Estimated Cost of Improvements: \$ N/A 0.00

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- PLEASE READ CITY ORDINANCE #1187 PRIOR TO SUBMITTING APPLICATION
- (Conditional) One (1) full set (8.5 x11) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed buildings and alterations are required. Attach any requested, supplemental or necessary documentation. **(Required only if asked for by the Zoning Inspector.)**

Some of the requests below may not apply to your application.

- (1) A dimensioned site plan showing existing conditions including all structures, pavement, curb-cut locations, natural features such as tree masses and riparian corridors, and rights-of-way.
- (2) A dimensioned site plan showing the proposed site change including structures, pavement, revised curb-cut locations, landscaping, property lines and screening of mechanicals.
- (3) Illustration of all existing building elevations from street/ground to scale & picture of project before starting.
- (4) Illustrations of all proposed building elevations to scale & picture of project when it's finished.
- (5) Samples of proposed building materials.
- (6) Color samples for proposed roof, siding, etc.
- (7) Illustrations of all existing site signage including wall and ground.
- (8) Illustrations of proposed signage to scale.
- (9) A dimensioned site plan showing location of existing ground mounted signs.
- (10) A dimensioned site plan showing the proposed location of ground mounted signs.
- (11) Samples of proposed sign materials.
- (12) Color samples of proposed sign(s).
- (13) Proposed lighting plan for sign(s).
- (14) The applicant shall post one sign per public street frontage of the subject property within fifteen (15) feet of the curb indicating the subject, date, and time for a public hearing. The sign(s) shall be posted at least ten (10) days prior to the scheduled hearing. The sign(s) should be purchased at the Johnstown City Offices and will measure no less than two (2) feet by three (3) feet.

List of Materials that will be used on the project:

1. N/A 2. _____
3. _____ 4. _____
5. _____ 6. _____
7. _____ 8. _____

List of Contiguous Neighbors and Addresses:

- | | | | | |
|----|--------------------------|-----------------------------|----------------|-------------------|
| 1. | _____
Neighbor's Name | _____
Neighbor's Address | _____
State | _____
Zip Code |
| 2. | _____
Neighbor's Name | _____
Neighbor's Address | _____
State | _____
Zip Code |
| 3. | _____
Neighbor's Name | _____
Neighbor's Address | _____
State | _____
Zip Code |
| 4. | _____
Neighbor's Name | _____
Neighbor's Address | _____
State | _____
Zip Code |

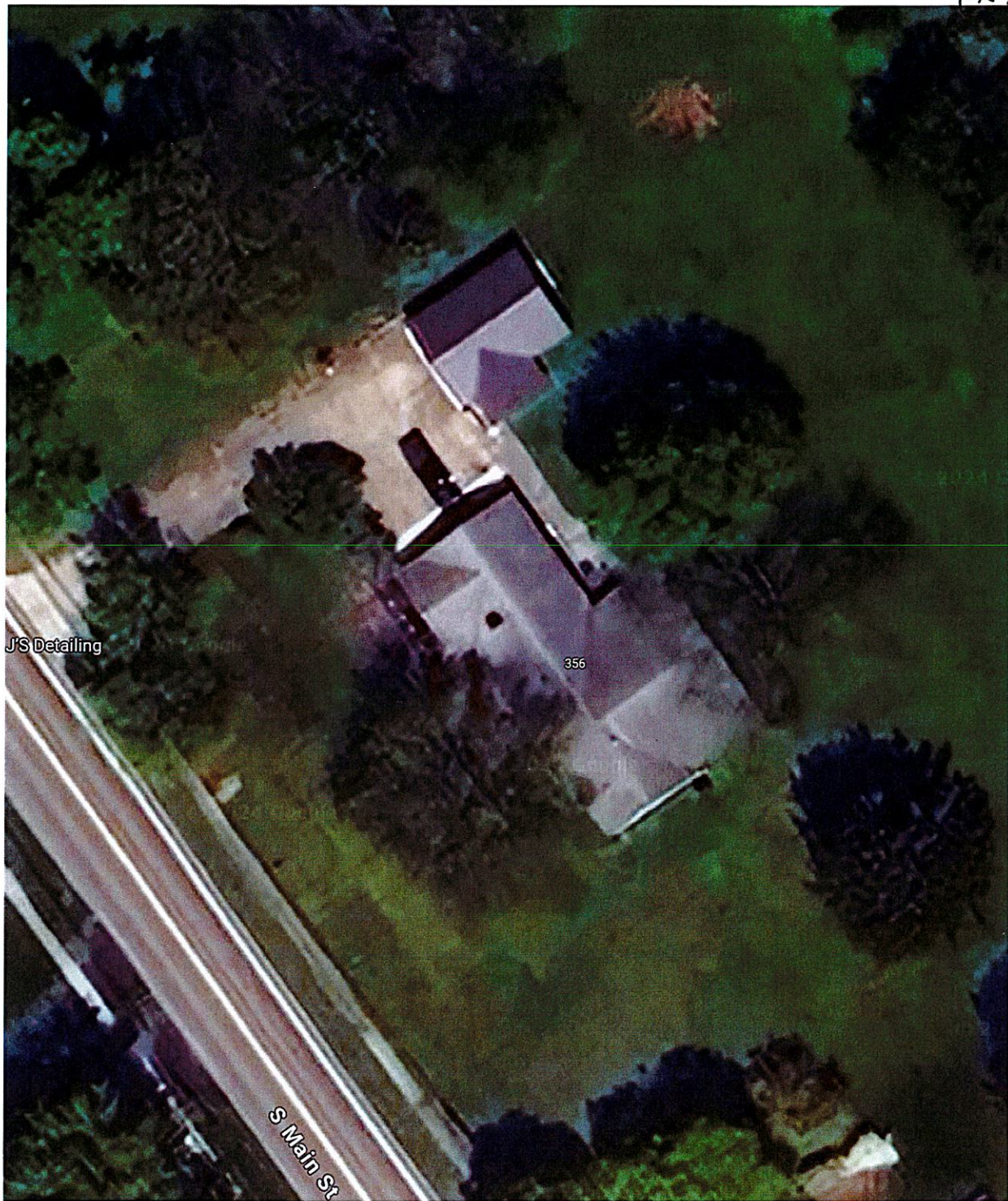
*The undersigned is applying for a Certificate of Appropriateness Permit for the following use:
said permit is to be issued based on the information contained within this application. The*

Applicant's Signature: x  Date: 9 / 12 / 24

OFFICE USE ONLY:

City Manager Signature: x _____

(X)



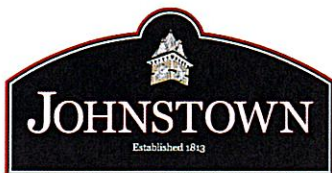












CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 9-18-15 Date: 9 / 18 / 24

FEES:

Base Fee: \$ 300

Total Fee Amount: \$ _____ Paid: Check # _____ Cash: \$ _____

(PLEASE PRINT)

1. Applicant: Cris Geiser Phone: (330) 600 - 2593
2. Property Address: 215 De Rosa Dr City: Johnstown State: oh Zip: 43031
3. Applicant's E-mail: cgeiser15@gmail.com
4. Business Owner's Name: _____ Phone: () -
5. Contractor's Name: Schlabach Builders Phone: (330) 600 - 2593
6. Principal Business Activity: _____
7. Existing Use of Property: Residence
8. Square Footage of Proposed Building or Business: 729 sq. ft.
9. Zoning District: _____ Number of Off-Street Parking Spaces: _____
10. Estimated Cost of Improvements: \$125000

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- PLEASE READ CITY ORDINANCE #1187 PRIOR TO SUBMITTING APPLICATION
- (Conditional) One (1) full set (8.5 x11) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed buildings and alterations are required. Attach any requested, supplemental or necessary documentation. **(Required only if asked for by the Zoning Inspector.)**

Some of the requests below may not apply to your application.

- (1) A dimensioned site plan showing existing conditions including all structures, pavement, curb-cut locations, natural features such as tree masses and riparian corridors, and rights-of-way.
- (2) A dimensioned site plan showing the proposed site change including structures, pavement, revised curb-cut locations, landscaping, property lines and screening of mechanicals.
- (3) Illustration of all existing building elevations from street/ground to scale & picture of project before starting.
- (4) Illustrations of all proposed building elevations to scale & picture of project when it's finished.
- (5) Samples of proposed building materials.
- (6) Color samples for proposed roof, siding, etc.
- (7) Illustrations of all existing site signage including wall and ground.
- (8) Illustrations of proposed signage to scale.
- (9) A dimensioned site plan showing location of existing ground mounted signs.
- (10) A dimensioned site plan showing the proposed location of ground mounted signs.
- (11) Samples of proposed sign materials.
- (12) Color samples of proposed sign(s).
- (13) Proposed lighting plan for sign(s).
- (14) The applicant shall post one sign per public street frontage of the subject property within fifteen (15) feet of the curb indicating the subject, date, and time for a public hearing. The sign(s) shall be posted at least ten (10) days prior to the scheduled hearing. The sign(s) should be purchased at the Johnstown City Offices and will measure no less than two (2) feet by three (3) feet.

List of Materials that will be used on the project:

- | | |
|-------------------|---------------------|
| 1. Vinyl Siding | 2. Asphalt Shingles |
| 3. Concrete Block | 4. Alluminium Trim |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |

List of Contiguous Neighbors and Addresses:

- | | | | |
|-----------------------|--------------------------|-------|----------|
| 1. Adria Chew | 217 De Rosa Dr Johnstown | OH | 43031 |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 2. Schlabach Builders | _____ | _____ | _____ |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 3. _____ | _____ | _____ | _____ |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 4. _____ | _____ | _____ | _____ |
| Neighbor's Name | Neighbor's Address | State | Zip Code |

*The undersigned is applying for a Certificate of Appropriateness Permit for the following use:
said permit is to be issued based on the information contained within this application. The*

Applicant's Signature: x Cris Seizer Date: 9 / 18 / 2024

Date Received in Office: 9/18/24 By: T. Wymer

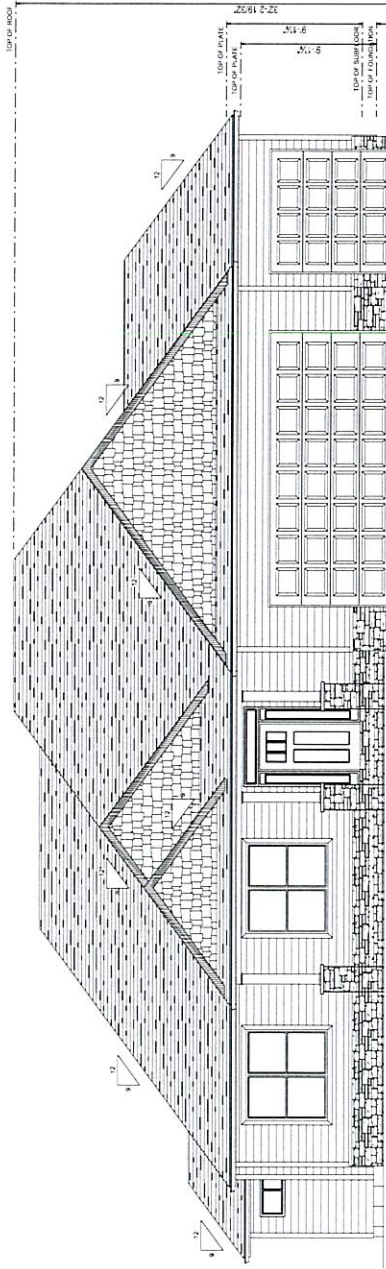
Date Permit Approved or Denied by Planning Commission: ____/____/____

City Manager Signature: x_____

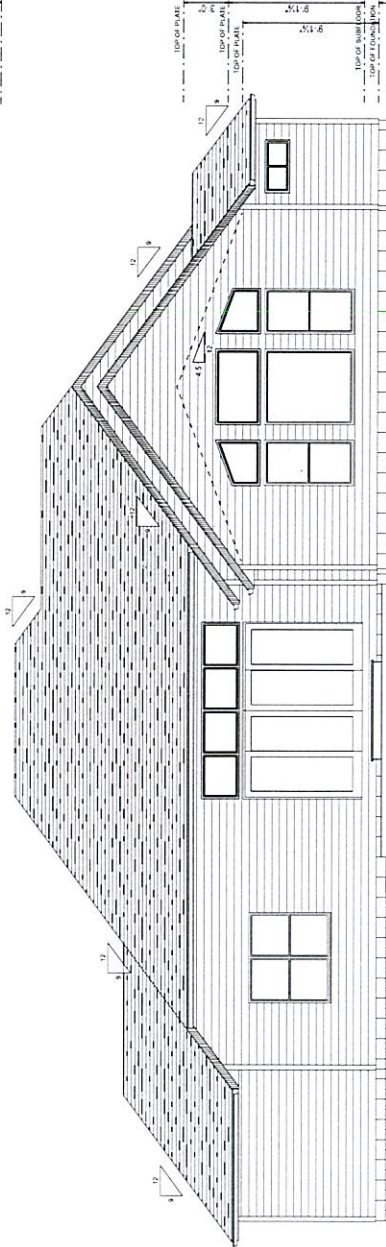
BRADLEY & BETH WAITE #3441-A POOL RM

215 DE ROSA DR.
JOHNSTOWN, OH 43031

LOT 144 - CCE
LICKING CO.



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



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

AREA SCHEDULE	
NAME	AREA
MAIN FLOOR	2211 sq ft.
GARAGE	796 sq ft.
PORCH	132 sq ft.
POOL ROOM	729 sq ft.
PATIO	396 sq ft.

PAGE	DRAWING(S)
1	FRONT & REAR ELEV.
2	LEFT & RIGHT ELEV.
3	FOUNDATION PLAN
4	MAIN FLOOR PLAN
5	ROOF & CROSS SEC.
6	SITE PLAN



6678 ST RT 241
MILLERSBURG
OH 44654
330.674.9386

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

SUPERVISOR: MARVIN MILLER 330-763-3010

PLAN #: 215

DATE: Monday, September 16, 2024

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

DRAWN BY: PAUL M.

PAGE:

1/6



6678 ST RT 241
MILLERSBURG
OH 44654
330-674-9386

SUPERVISOR: MARVIN MILLER 330-763-3010

215 DE ROSA DR.
JOHNSTOWN, OH 43031

BRADLEY & BETH WAITE #3441-A-POL RM

DRAWN BY: PAUL M.

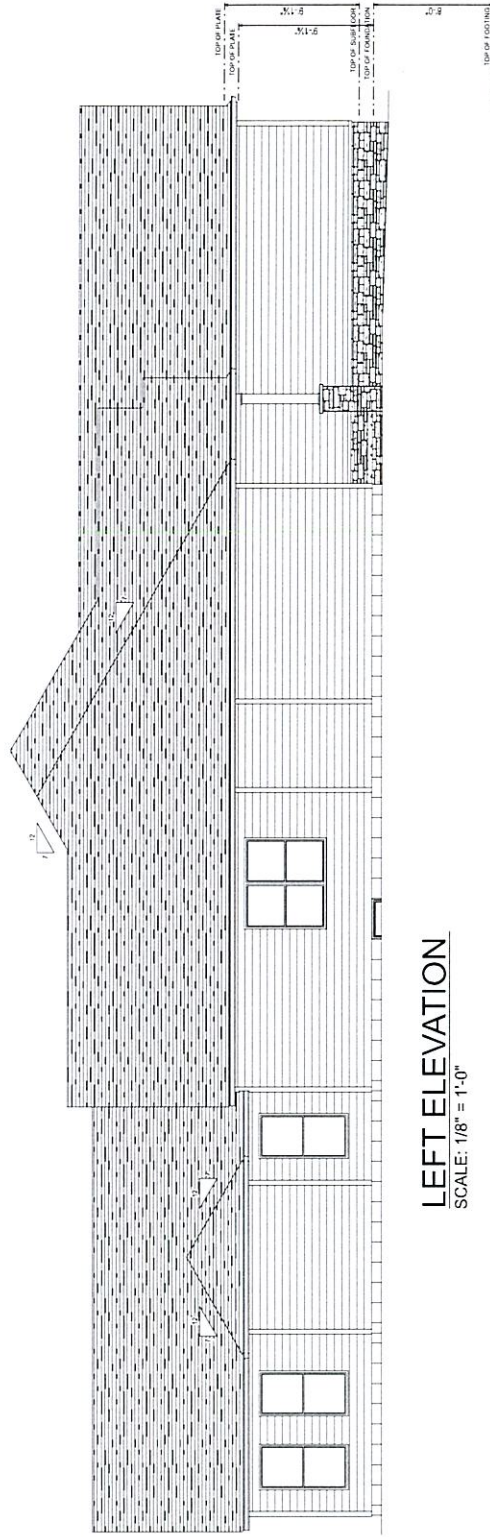
SCALE: 1/8" = 1'-0"

DATE: Monday, September 16, 2024

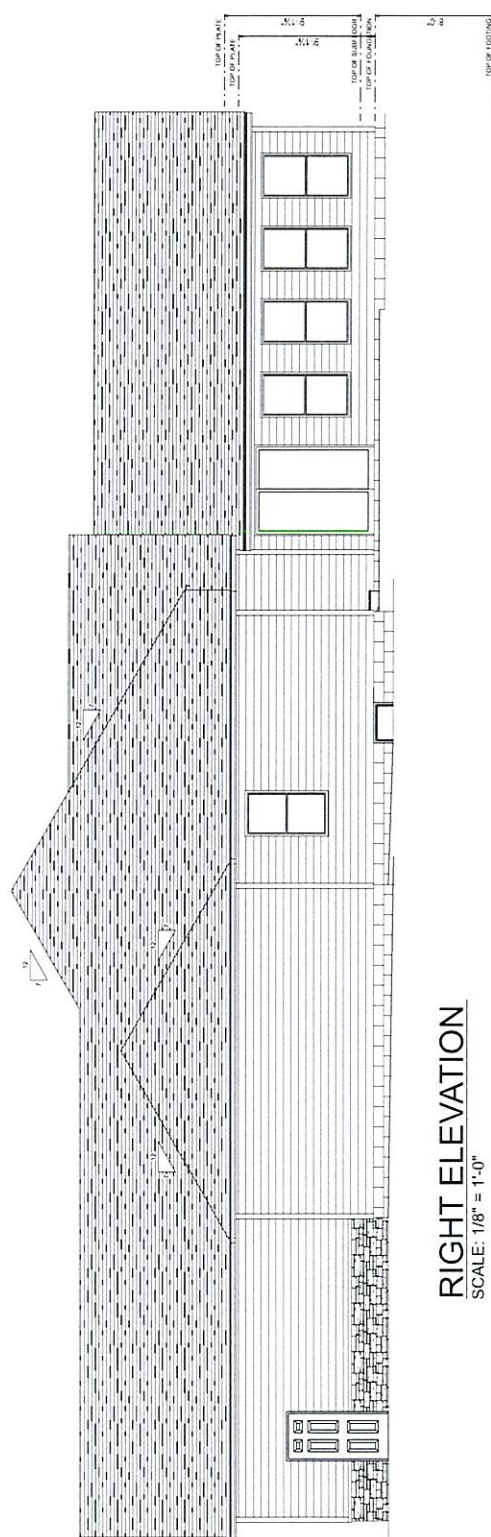
PLAN #: 215

PAGE:

2/6



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



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



6678 ST RT 241
MILLERSBURG
OH 44654
330-674-9386

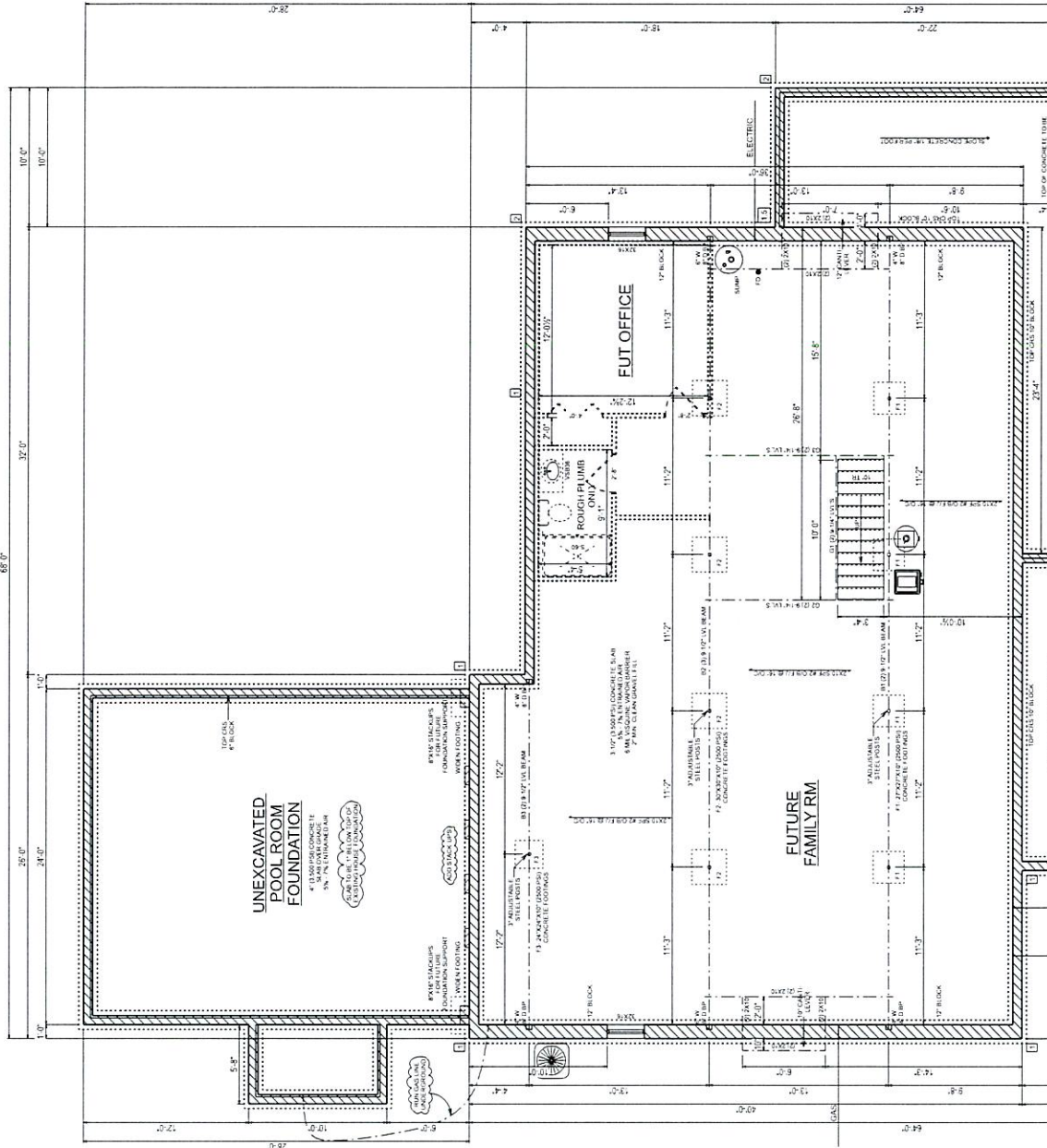
SUPERVISOR: MARVIN MILLER 330-763-3010
JOHNSTOWN, OH 43031

BRADLEY & BETH WAITE #3441-A POOL RM
DRAWN BY: PAUL M.
SCALE: 1/8" = 1'-0"
DATE: Monday, September 16, 2024
PLAN #: 215

PAGE: 3/6

12-COURSE BLOCK

- 1. 12" MAGNET BLOCK
- 2. 12" MAGNET BLOCK
- 3. 12" MAGNET BLOCK
- 4. 12" MAGNET BLOCK
- 5. 12" MAGNET BLOCK
- 6. 12" MAGNET BLOCK
- 7. 12" MAGNET BLOCK
- 8. 12" MAGNET BLOCK
- 9. 12" MAGNET BLOCK
- 10. 12" MAGNET BLOCK
- 11. 12" MAGNET BLOCK
- 12. 12" MAGNET BLOCK



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



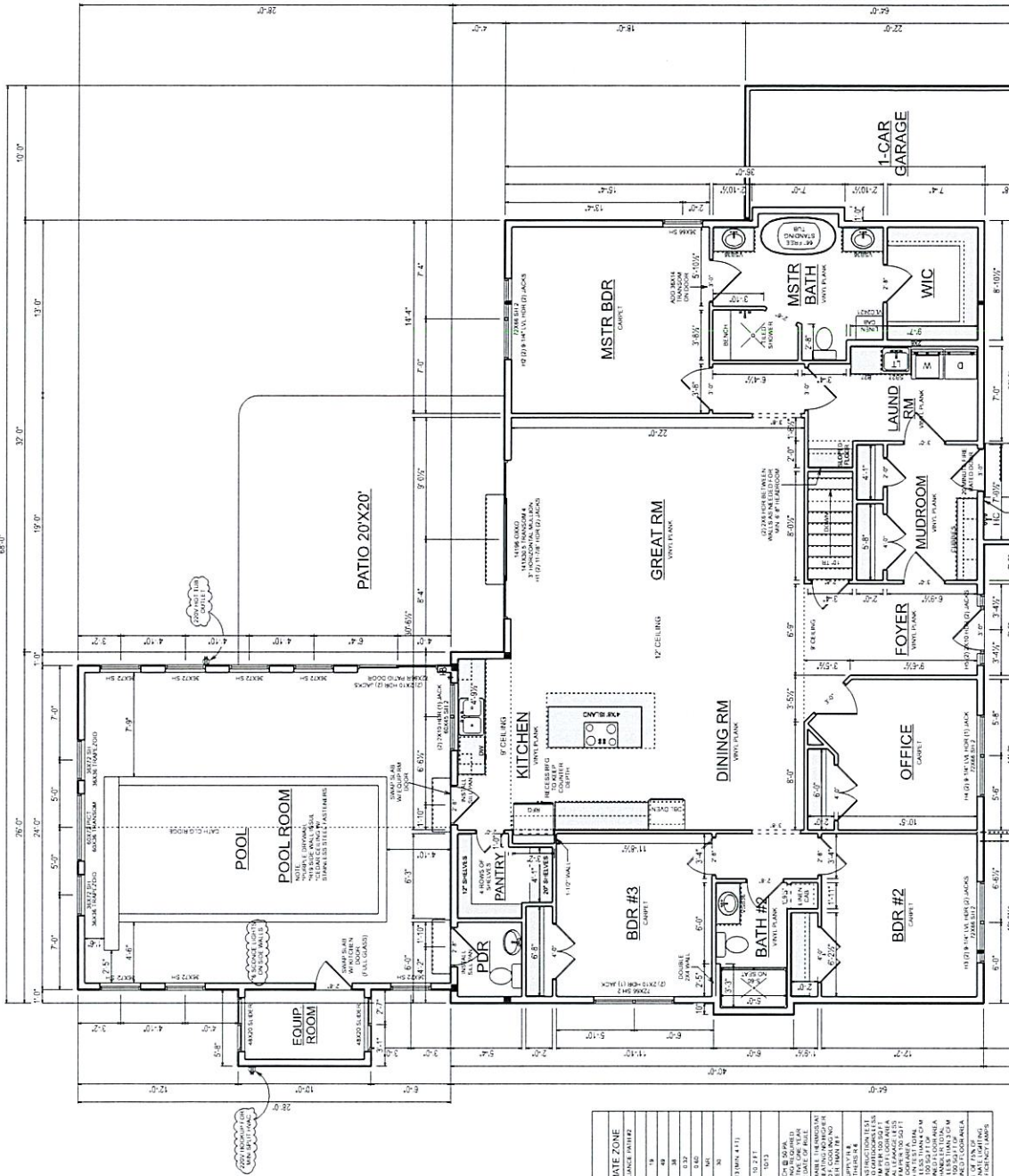
6678 ST RT 241
MILLERSBURG
OH 44654
330-674-9386

BRADLEY & BETH WAITE #3441-A-POL RM
215 DE ROSA DR.
JOHNSTOWN, OH 43031
SUPERVISOR: MARVIN MILLER 330-763-3010
PLAN #: 215

DRAWN BY: PAUL M.
SCALE: 1/8" = 1'-0"
DATE: Monday, September 16, 2024
PAGE: 4/6

NOTE:
1. 2X6 EXTERIOR HOUSE WALLS
2. 2X4 EXTERIOR GARAGE WALLS

FLOOR PLAN NOTES	
1. ALL EXTERIOR WALLS SHALL BE 2X6	1. ALL INTERIOR WALLS SHALL BE 5/8"
2. ALL EXTERIOR WALLS SHALL BE 2X4	2. ALL INTERIOR WALLS SHALL BE 5/8"
3. ALL EXTERIOR WALLS SHALL BE 2X6	3. ALL INTERIOR WALLS SHALL BE 5/8"
4. ALL EXTERIOR WALLS SHALL BE 2X6	4. ALL INTERIOR WALLS SHALL BE 5/8"
5. ALL EXTERIOR WALLS SHALL BE 2X6	5. ALL INTERIOR WALLS SHALL BE 5/8"
6. ALL EXTERIOR WALLS SHALL BE 2X6	6. ALL INTERIOR WALLS SHALL BE 5/8"
7. ALL EXTERIOR WALLS SHALL BE 2X6	7. ALL INTERIOR WALLS SHALL BE 5/8"
8. ALL EXTERIOR WALLS SHALL BE 2X6	8. ALL INTERIOR WALLS SHALL BE 5/8"
9. ALL EXTERIOR WALLS SHALL BE 2X6	9. ALL INTERIOR WALLS SHALL BE 5/8"
10. ALL EXTERIOR WALLS SHALL BE 2X6	10. ALL INTERIOR WALLS SHALL BE 5/8"
11. ALL EXTERIOR WALLS SHALL BE 2X6	11. ALL INTERIOR WALLS SHALL BE 5/8"
12. ALL EXTERIOR WALLS SHALL BE 2X6	12. ALL INTERIOR WALLS SHALL BE 5/8"
13. ALL EXTERIOR WALLS SHALL BE 2X6	13. ALL INTERIOR WALLS SHALL BE 5/8"
14. ALL EXTERIOR WALLS SHALL BE 2X6	14. ALL INTERIOR WALLS SHALL BE 5/8"
15. ALL EXTERIOR WALLS SHALL BE 2X6	15. ALL INTERIOR WALLS SHALL BE 5/8"
16. ALL EXTERIOR WALLS SHALL BE 2X6	16. ALL INTERIOR WALLS SHALL BE 5/8"
17. ALL EXTERIOR WALLS SHALL BE 2X6	17. ALL INTERIOR WALLS SHALL BE 5/8"
18. ALL EXTERIOR WALLS SHALL BE 2X6	18. ALL INTERIOR WALLS SHALL BE 5/8"
19. ALL EXTERIOR WALLS SHALL BE 2X6	19. ALL INTERIOR WALLS SHALL BE 5/8"
20. ALL EXTERIOR WALLS SHALL BE 2X6	20. ALL INTERIOR WALLS SHALL BE 5/8"



MAIN FLOOR PLAN
SCALE: 1/8" = 1'-0"

ENERGY CODE	
PRESCRIPTIVE METHOD	
CLIMATE ZONE	
1. CLIMATE ZONE	4
2. CLIMATE ZONE	4
3. CLIMATE ZONE	4
4. CLIMATE ZONE	4
5. CLIMATE ZONE	4
6. CLIMATE ZONE	4
7. CLIMATE ZONE	4
8. CLIMATE ZONE	4
9. CLIMATE ZONE	4
10. CLIMATE ZONE	4
11. CLIMATE ZONE	4
12. CLIMATE ZONE	4
13. CLIMATE ZONE	4
14. CLIMATE ZONE	4
15. CLIMATE ZONE	4
16. CLIMATE ZONE	4
17. CLIMATE ZONE	4
18. CLIMATE ZONE	4
19. CLIMATE ZONE	4
20. CLIMATE ZONE	4



6678 ST RT 241
MILLERSBURG
OH 44654
330-674-9386

SUPERVISOR: MARVIN MILLER 330-763-3010

215 DE ROSA DR.
JOHNSTOWN, OH 43031

PLAN #: 215

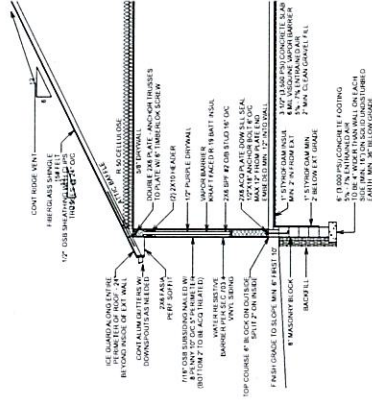
DATE: Monday, September 16, 2024

SCALE: As Noted

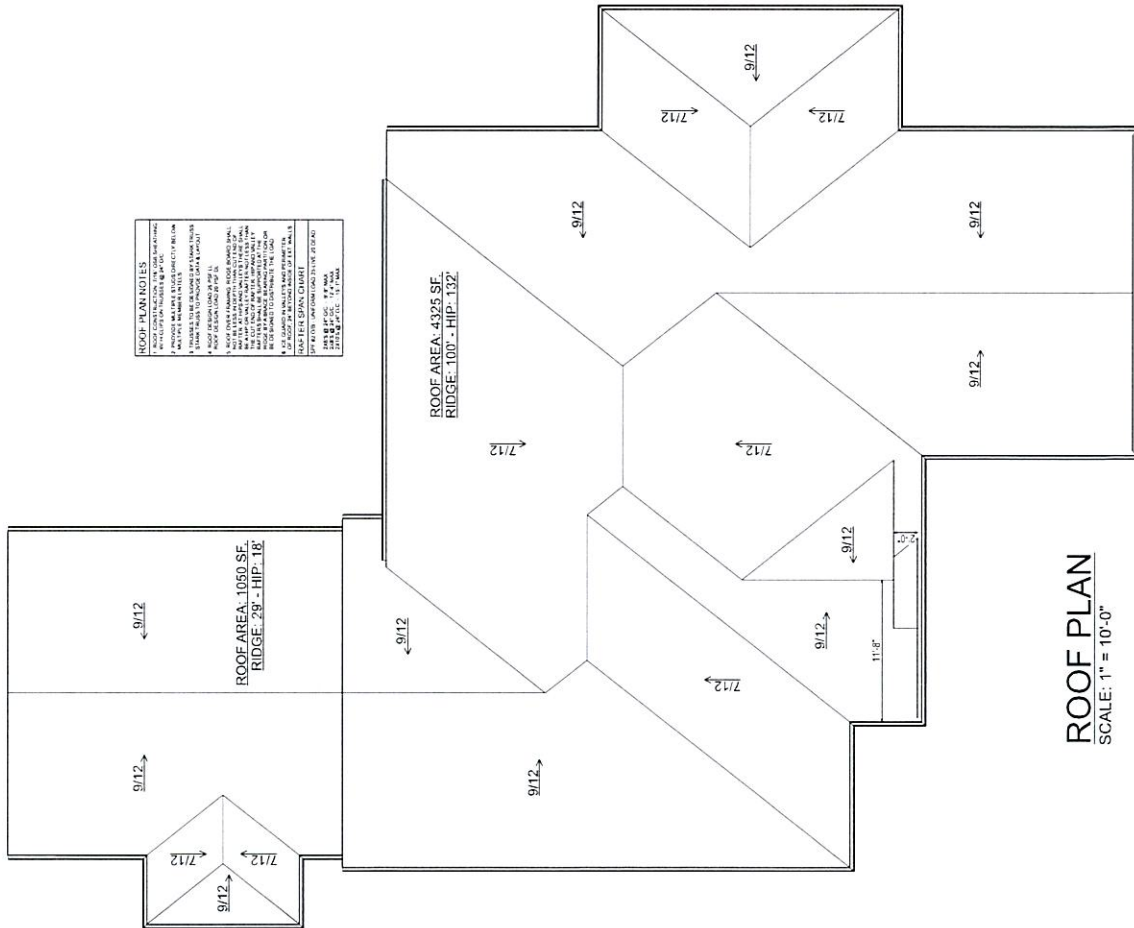
DRAWN BY: PAUL M.

PAGE:

5/6

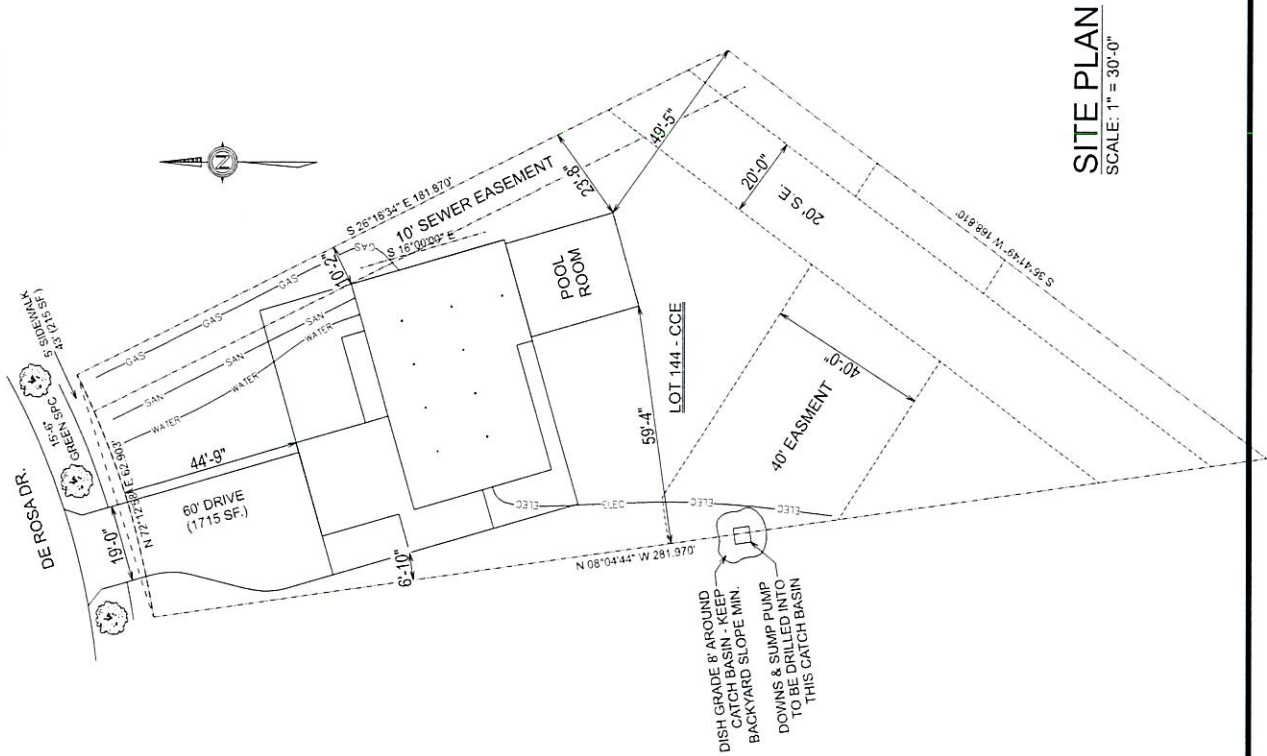


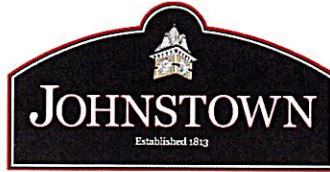
CROSS SECTION (TYP)
SCALE: 1/8" = 1'-0"



ROOF PLAN
SCALE: 1" = 10'-0"

ROOF PLAN NOTES	
1. ALL ROOFING SHALL BE AS SHOWN ON THIS PLAN.	
2. ALL ROOFING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.	
3. ALL ROOFING SHALL BE INSTALLED OVER A SUFFICIENTLY STRENGTH ROOF DECK.	
4. ALL ROOFING SHALL BE INSTALLED OVER A SUFFICIENTLY STRENGTH ROOF DECK.	
5. ALL ROOFING SHALL BE INSTALLED OVER A SUFFICIENTLY STRENGTH ROOF DECK.	
6. ALL ROOFING SHALL BE INSTALLED OVER A SUFFICIENTLY STRENGTH ROOF DECK.	
7. ALL ROOFING SHALL BE INSTALLED OVER A SUFFICIENTLY STRENGTH ROOF DECK.	
8. ALL ROOFING SHALL BE INSTALLED OVER A SUFFICIENTLY STRENGTH ROOF DECK.	
9. ALL ROOFING SHALL BE INSTALLED OVER A SUFFICIENTLY STRENGTH ROOF DECK.	
10. ALL ROOFING SHALL BE INSTALLED OVER A SUFFICIENTLY STRENGTH ROOF DECK.	





JOHNSTOWN, OHIO
AUG 27 2024
PAID

CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 8-27-5 Date: 08 / 23 / 2024

FEES:

Base Fee: \$ 100

Total Fee Amount: \$ 100.00 Paid: Check # 1005 Cash: \$ —

(PLEASE PRINT)

1. Applicant: STORM STROUT Phone: (740) 564 - 4594
2. Property Address: 101 RECREATION DR. City: JOHNSTOWN State: OH Zip: 43031
3. Applicant's E-mail: STORM.STROUT@GMAIL.COM
4. Business Owner's Name: " " Phone: () -
5. Contractor's Name: " " Phone: () -
6. Principal Business Activity: HEALTH & FITNESS FACILITY
7. Existing Use of Property: " "
8. Square Footage of Proposed Building or Business: ~800 sq. ft.
9. Zoning District: VC Number of Off-Street Parking Spaces: 50+
10. Estimated Cost of Improvements: \$ 20,000.00

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- PLEASE READ CITY ORDINANCE #1187 PRIOR TO SUBMITTING APPLICATION
- (Conditional) One (1) full set (8.5 x11) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed

buildings and alterations are required. Attach any requested, supplemental or necessary documentation.

Some of the requests below may not apply to your application.

- (1) A dimensioned site plan showing existing conditions including all structures, pavement, curb-cut locations, natural features such as tree masses and riparian corridors, and rights-of-way.
- (2) A dimensioned site plan showing the proposed site change including structures, pavement, revised curb-cut locations, landscaping, property lines and screening of mechanicals.
- (3) Illustration of all existing building elevations from street/ground to scale & picture of project before starting.
- (4) Illustrations of all proposed building elevations to scale & picture of project when it's finished.
- (5) Samples of proposed building materials.
- (6) Color samples for proposed roof, siding, etc.
- (7) Illustrations of all existing site signage including wall and ground.
- (8) Illustrations of proposed signage to scale.
- (9) A dimensioned site plan showing location of existing ground mounted signs.
- (10) A dimensioned site plan showing the proposed location of ground mounted signs.
- (11) Samples of proposed sign materials.
- (12) Color samples of proposed sign(s).
- (13) Proposed lighting plan for sign(s).
- (14) The applicant shall post one sign per public street frontage of the subject property within fifteen (15) feet of the curb indicating the subject, date, and time for a public hearing. The sign(s) shall be posted at least ten (10) days prior to the scheduled hearing. The sign(s) should be purchased at the Johnstown City Offices and will measure no less than two (2) feet by three (3) feet.

List of Materials that will be used on the project:

1. METAL - BLACK, CORRUGATED 2. PAINT - BLACK
3. _____ 4. _____
5. _____ 6. _____
7. _____ 8. _____

List of Contiguous Neighbors and Addresses:

- | | | | |
|------------------------------------|-----------------------|-------|----------|
| 1. <u>MARVIN & CATHY BLOCK</u> | <u>275 EDWARDS RD</u> | _____ | _____ |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 2. <u>LEONORA KEELAN</u> | <u>209 EDWARDS RD</u> | _____ | _____ |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 3. <u>NEIL & BEVERLY MYER</u> | <u>189 EDWARDS RD</u> | _____ | _____ |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 4. <u>MICHAEL SANFILLIPO</u> | <u>137 EDWARDS RD</u> | _____ | _____ |
| Neighbor's Name | Neighbor's Address | State | Zip Code |

The undersigned is applying for a Certificate of Appropriateness Permit for the following use: said permit is to be issued based on the information contained within this application. The applicant hereby certifies that all information and attachments to this application are true & correct and agrees to follow all applicable laws.

Applicant's Signature: x



Date: 08 / 23 / 2024

OFFICE USE ONLY:

Date Received in Office: 8 / 26 / 24 By: 

Date of Planning and Zoning Commission Meeting: 9 / 24 / 24

Date Permit Approved or Denied by Planning Commission: ____ / ____ / ____

Conditions Necessary for Approval: _____

City Manager Signature: x _____

STORAGE SHED

same color?

- REPAIRING SIDING AFTER RAIN/WIND STORM

- REPAIRING ROOF AFTER RAIN/WIND STORM

→ BLACK CORRUGATED METAL

MAIN BUILDING

- REPAINT BLACK







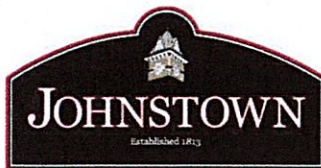












**RESIDENTIAL OR COMMERCIAL DEMOLITION PERMIT
APPLICATION**

Application Number: 9-30-5 Date: 09 / 26 / 2024

FEES:

Single Family: \$700 per structure (owner shall be eligible to receive a \$500.00 refund following the Final Inspection to ensure lot space is restored to a green space in a timely manner.)

Non-Single Family: \$1,000 per structure (owner shall be eligible to receive a \$500.00 refund following the Final Inspection to ensure lot space is restored to a green space in a timely manner.)

Total Fee Amount: \$700 Paid: Check # 133 / Cash: \$

1. Applicant: Robert Turton E-mail: bobturton@gmail.com
2. Contractor: Ron Mccarty (A1 Dumpster Hauling and De Phone: (614) 989 -0396
3. Property Address: 324 Buena Vista Johnstown, Ohio
4. Existing Use of Property: Single Family Home Square Footage: 1392
5. Estimated Cost of Demolition: \$6500
6. Proposed Use of Property After Demolition: Grass UR-1
7. Attach any requested, supplemental, or necessary documentation or information and proof of insurance.

**** The undersigned is applying for a Demolition Permit for the following use to be issued based on the information contained within this application. The applicant hereby certifies that all information and attachments to this application are true & correct and agrees to follow all applicable regulations.*

Applicant's Signature: [Signature] Date: 09 / 26 / 2024

Application will be made to the zoning office including the submission of Liability Insurance by the owner/contractor. Upon successful completion of the demolition, the owner shall be eligible to receive a \$500.00 refund following the Final Inspection to ensure lot space is restored to a green space in a timely manner.

OFFICE USE ONLY:

Date Received in Office: 9 / 30 / 24 By: S. Ashbrook
Date Permit Issued: / / By:
Date of Final Inspection: / / By:
Date of Refund if Applicable: / / By:

Some of the requests below may not apply to your application.

- (1) A dimensioned site plan showing existing conditions including all structures, pavement, curb-cut locations, natural features such as tree masses and riparian corridors, and rights-of-way.
- (2) A dimensioned site plan showing the proposed site change including structures, pavement, revised curb-cut locations, landscaping, property lines and screening of mechanicals.
- (3) Illustration of all existing building elevations from street/ground to scale & picture of project before starting.
- (4) Illustrations of all proposed building elevations to scale & picture of project when it's finished.
- (5) Samples of proposed building materials.
- (6) Color samples for proposed roof, siding, etc.
- (7) Illustrations of all existing site signage including wall and ground.
- (8) Illustrations of proposed signage to scale.
- (9) A dimensioned site plan showing location of existing ground mounted signs.
- (10) A dimensioned site plan showing the proposed location of ground mounted signs.
- (11) Samples of proposed sign materials.
- (12) Color samples of proposed sign(s).
- (13) Proposed lighting plan for sign(s).
- (14) The applicant shall post one sign per public street frontage of the subject property within fifteen (15) feet of the curb indicating the subject, date, and time for a public hearing. The sign(s) shall be posted at least ten (10) days prior to the scheduled hearing. The sign(s) should be purchased at the Johnstown City Offices and will measure no less than two (2) feet by three (3) feet.

List of Materials that will be used on the project:

1. _____ 2. _____
3. _____ 4. _____
5. _____ 6. _____
7. _____ 8. _____

List of Contiguous Neighbors and Addresses:

- | | | | | |
|----|-----------------|--------------------|-------|----------|
| 1. | _____ | _____ | _____ | _____ |
| | Neighbor's Name | Neighbor's Address | State | Zip Code |
| 2. | _____ | _____ | _____ | _____ |
| | Neighbor's Name | Neighbor's Address | State | Zip Code |
| 3. | _____ | _____ | _____ | _____ |
| | Neighbor's Name | Neighbor's Address | State | Zip Code |
| 4. | _____ | _____ | _____ | _____ |
| | Neighbor's Name | Neighbor's Address | State | Zip Code |

*The undersigned is applying for a Certificate of Appropriateness Permit for the following use:
said permit is to be issued based on the information contained within this application. The*

Applicant's Signature: x  Date: 09 / 26 / 2024

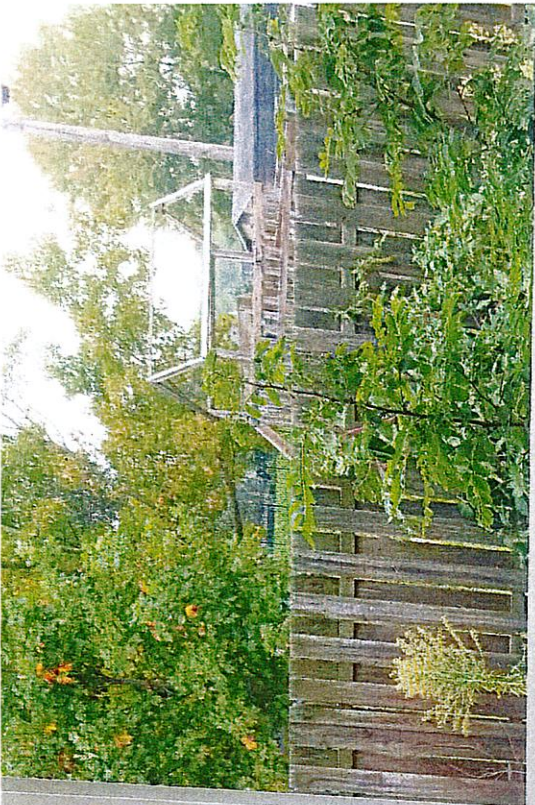
City Manager Signature: x_____

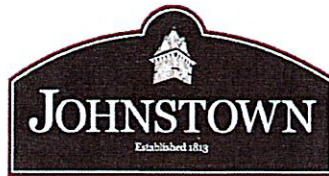












JOHNSTOWN, OHIO
SEP 30 2024
PAID

CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 9-24-20 Date: 9 / 18 / 2024

FEES:

Base Fee: \$ 100

Total Fee Amount: \$ 100 Paid: Check # - - - Cash: \$ -

(PLEASE PRINT)

1. Applicant: Johnathan Rinard/Mary Wolfe Phone: (614) 705 - 9420
2. Property Address: 145 South Main St City: Johnstown State: OH Zip: 43031
3. Applicant's E-mail: jandm.managementservices@gmail.com
4. Business Owner's Name: _____ Phone: () - _____
5. Contractor's Name: The Metal Roof Company Phone: (740) 319 - 0026
6. Principal Business Activity: Roofing
7. Existing Use of Property: Residential
8. Square Footage of Proposed Building or Business: 1776 sq. ft.
9. Zoning District: _____ Number of Off-Street Parking Spaces: _____
10. Estimated Cost of Improvements: \$19,000.00

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- PLEASE READ CITY ORDINANCE #1187 PRIOR TO SUBMITTING APPLICATION
- (Conditional) One (1) full set (8.5 x11) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed

buildings and alterations are required. Attach any requested, supplemental or necessary documentation.

Some of the requests below may not apply to your application.

- (1) A dimensioned site plan showing existing conditions including all structures, pavement, curb-cut locations, natural features such as tree masses and riparian corridors, and rights-of-way.
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- (14) The applicant shall post one sign per public street frontage of the subject property within fifteen (15) feet of the curb indicating the subject, date, and time for a public hearing. The sign(s) shall be posted at least ten (10) days prior to the scheduled hearing. The sign(s) should be purchased at the Johnstown City Offices and will measure no less than two (2) feet by three (3) feet.

List of Materials that will be used on the project:

- | | |
|------------------------------------|----------|
| 1. Metal Standing seam roof | 2. _____ |
| 3. Aluminum Gutters and downspouts | 4. _____ |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |

List of Contiguous Neighbors and Addresses:

- | | | | |
|---------------------|------------------------------|-------|----------|
| 1. Johnstown UMC | 159 S. Main St. Johnstown | OH | 43031 |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 2. _____ | 135/137 S. Main St Johnstown | OH | 43031 |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 3. K-Ceps Auto Body | 136 S. Main St Johnstown | OH | 43031 |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 4. _____ | _____ | _____ | _____ |
| Neighbor's Name | Neighbor's Address | State | Zip Code |

Applicant's Signature: x [Signature] / Man. Wife Date: 9 / 18 / 2024

Date Received in Office: 9/18/24 By: T. Wymer

Date of Planning and Zoning Commission Meeting: 10 / 8 / 24

Date Permit Approved or Denied by Planning Commission: ____/____/____

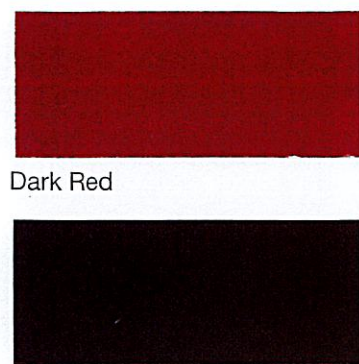
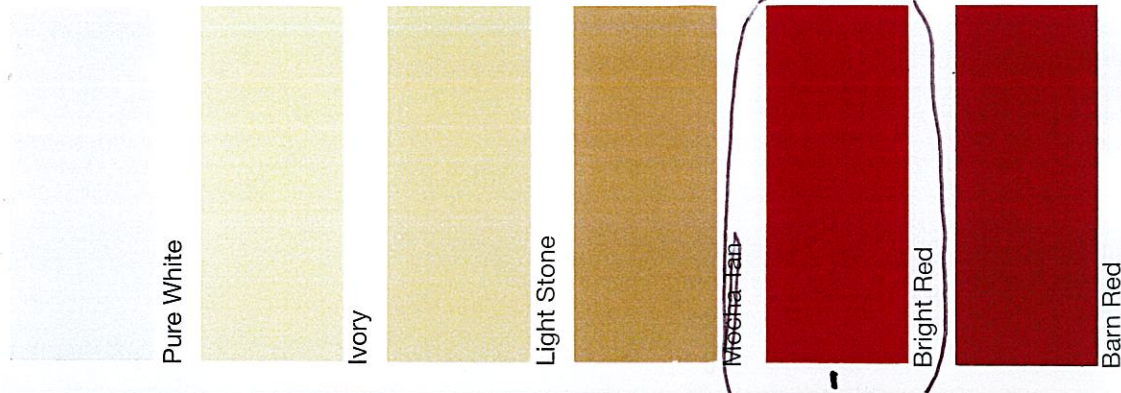
Conditions Necessary for Approval: _____

City Manager Signature: x _____

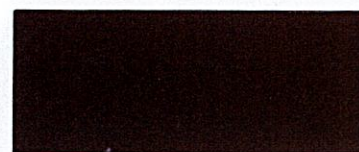








Burgundy



Cocoa Brown



Patina Green



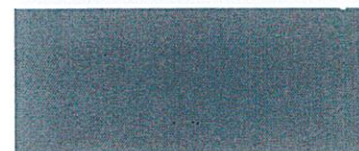
Forest Green



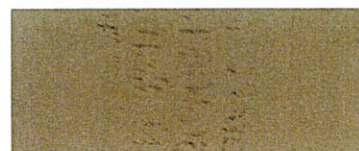
Hawaiian Blue



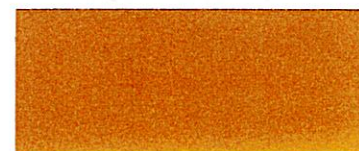
Gallery Blue



Light Gray



Clay



* Copper Metallic

THE METAL ROOF COMPANY

614-721-ROOF

www.themetalroofcompany.com

406 Jamison Rd. ■ Frankfort, OH 45628
 Phone: (740) 998-4304 ■ Fax: (740) 998-4307
www.buckeyemetalroofing.com

At **BUCKEYE Metal Sales** we offer the best combination of quality, durability, and energy efficiency in the metal roofing and siding industry. We utilize AkzoNobel's CERAM-A-STAR® 1050 **COOL CHEMISTRY**® paint system that comes with a 40-Year Limited Warranty, over the finest first-run quality 28 and 26 gauge zinc-coated steel.

Using the highest grade ceramic solar reflective pigments, our CERAM-A-STAR® 1050 **COOL CHEMISTRY**® finish gives you all the benefits of solar reflectance along with proven durability. This exceptional coating will help keep your building cooler and reduce your energy bill, by helping reflect the sun's energy which reduces the heat build-up in your attic. Combine the hard-working CERAM-A-STAR® 1050 paint system with a strong metal substrate, and your roof will hold up to the wind, rain, and snow for years longer than conventional roofing materials. You can rest assured that you're buying the best roof available for your building.

BUCKEYE Metal Sales' unbeatable combination of quality and service will give lasting years of beauty and durability to your project. Let our team of experts assist you in choosing the right color combination for your building needs today.

* Premium Color

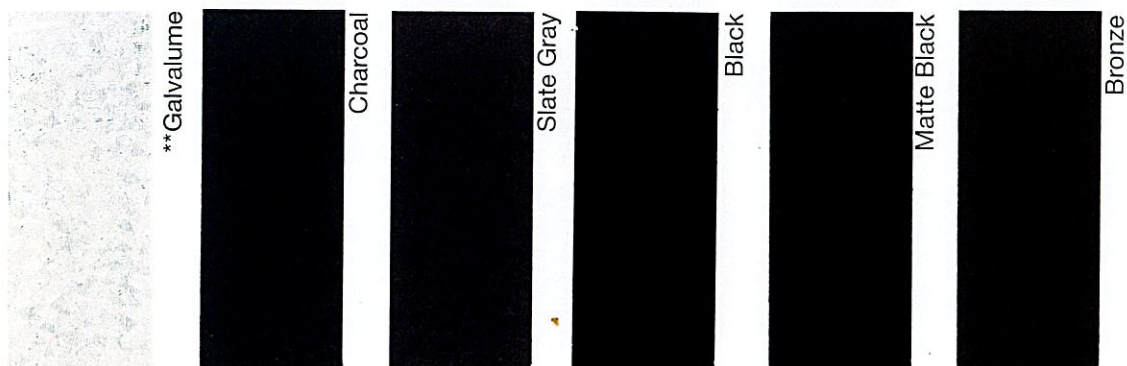
** Economy / 10 Year Warranty / Clear Coat

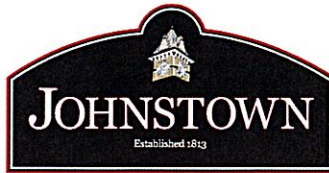
CERAM-A-STAR® 1050

COOL CHEMISTRY®

CERAM-A-STAR® is a registered trademark of AkzoNobel

These color samples are as close as possible to actual colors offered, within the limitations of color chip reproduction.





JOHNSTOWN, OHIO
SEP 24 2024
PAID

CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 9-24-5 Date: 9/24/24

FEES:

Base Fee: \$ 100

Total Fee Amount: \$ 100 Paid: Check # _____ Cash: \$ _____

(PLEASE PRINT)

1. Applicant: Bill Beavers Phone: (740) 963-0019
2. Property Address: 178 S. Williams St. City: Johnstown State: OH Zip: 43031
3. Applicant's E-mail: Billbeavers740@gmail.com
4. Business Owner's Name: Bill Beavers Phone: () -
5. Contractor's Name: Bill Beavers Phone: () -
6. Principal Business Activity: Construction
7. Existing Use of Property: Deck
8. Square Footage of Proposed Building or Business: _____ sq. ft.
9. Zoning District: GCC-1 Number of Off-Street Parking Spaces: _____
10. Estimated Cost of Improvements: \$ _____

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- PLEASE READ CITY ORDINANCE #1187 PRIOR TO SUBMITTING APPLICATION
- (Conditional) One (1) full set (8.5 x11) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed

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List of Materials that will be used on the project:

1. _____ 2. _____
3. _____ 4. _____
5. _____ 6. _____
7. _____ 8. _____

List of Contiguous Neighbors and Addresses:

- | | | | | |
|----|-----------------|--------------------|-------|----------|
| 1. | _____ | _____ | _____ | _____ |
| | Neighbor's Name | Neighbor's Address | State | Zip Code |
| 2. | _____ | _____ | _____ | _____ |
| | Neighbor's Name | Neighbor's Address | State | Zip Code |
| 3. | _____ | _____ | _____ | _____ |
| | Neighbor's Name | Neighbor's Address | State | Zip Code |
| 4. | _____ | _____ | _____ | _____ |
| | Neighbor's Name | Neighbor's Address | State | Zip Code |

Applicant's Signature: x  Date: 9/23/24

Date Received in Office: 9/23/24 By: J. Wymer

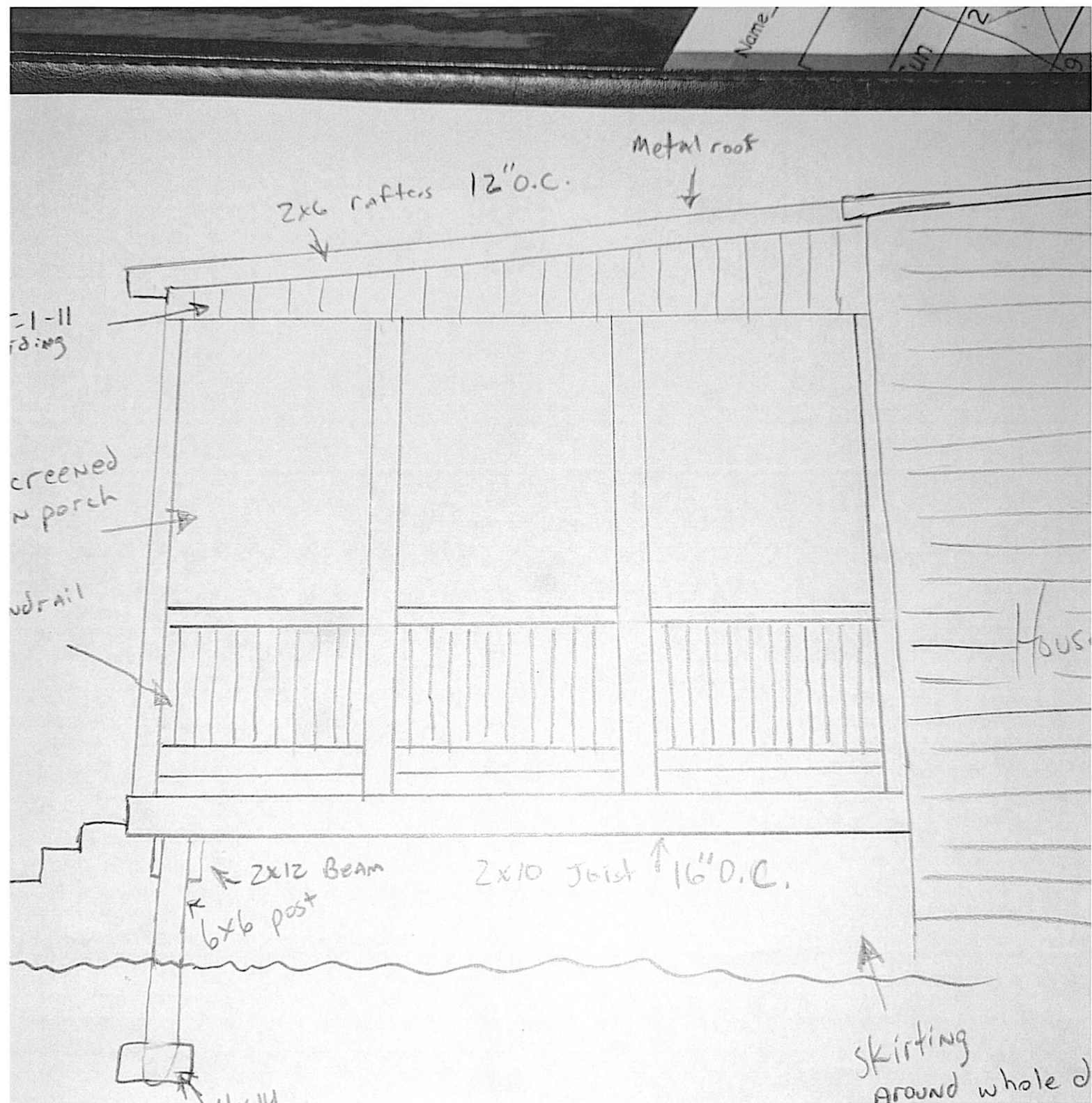
Date Permit Approved or Denied by Planning Commission: ____/____/____

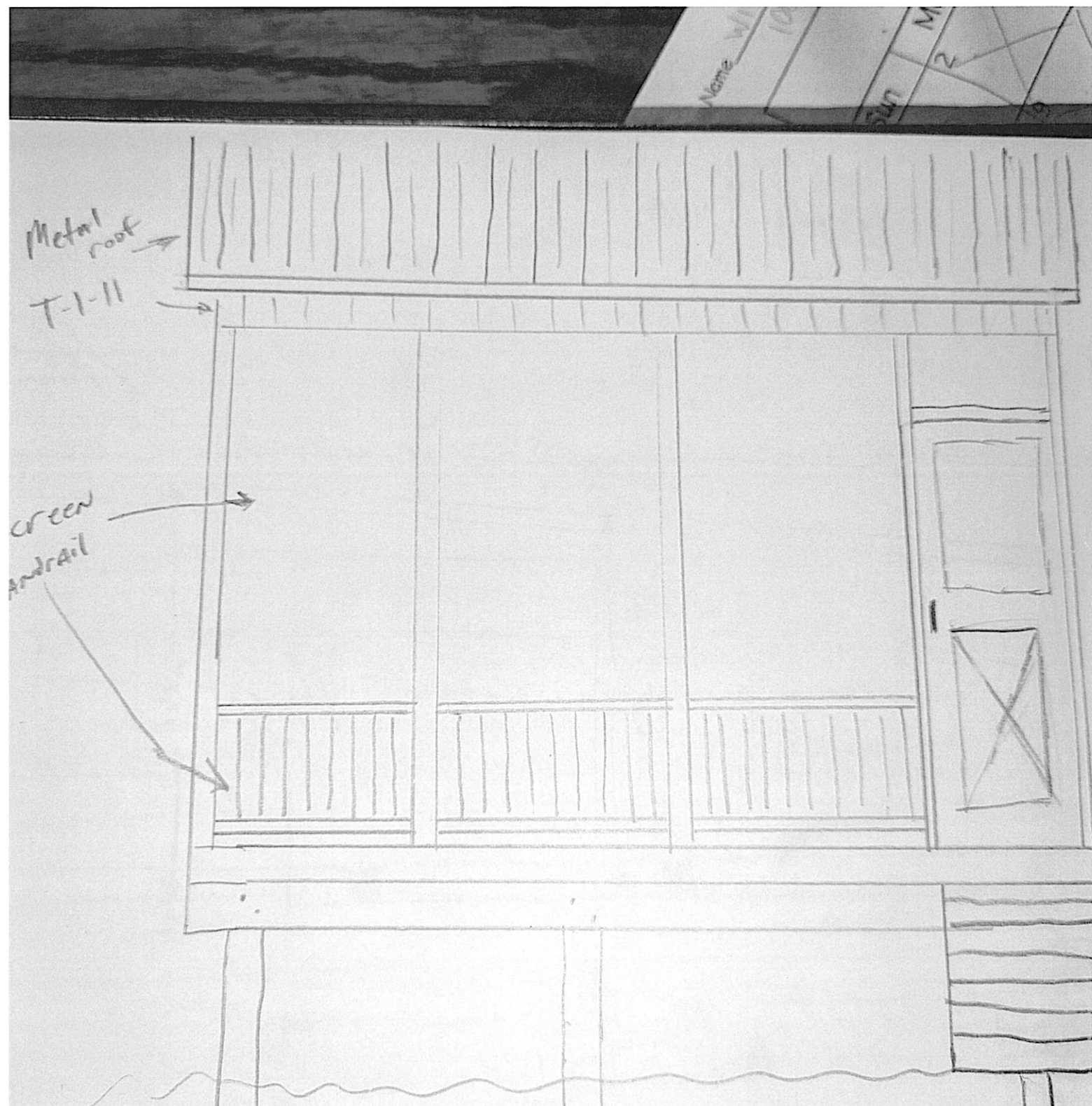
City Manager Signature: x _____

Narrative

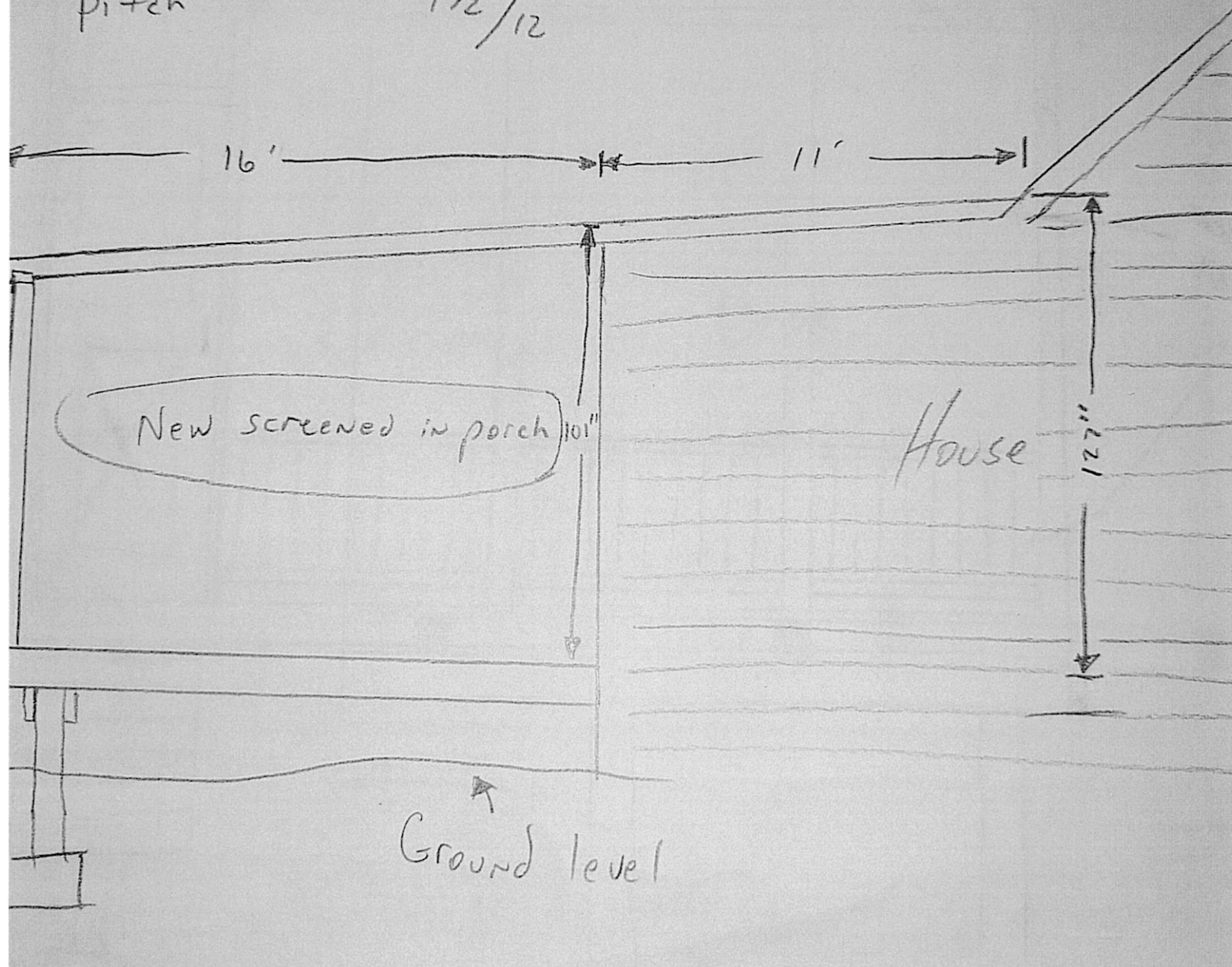
We replaced original deck. We are planning A screened in porch. A metal roof to cover it with a roof line that meets house roof. The slopes is projected $1\frac{1}{2}$ " per foot but could reach as much as 2" per foot. The gables will be covered in stainable siding that will be stained along with deck. The added roof will raise existing roof by over A Foot. The existing roof is metal that has a flat rubber roof on the back porch that will be covered in matching metal.

Contractor



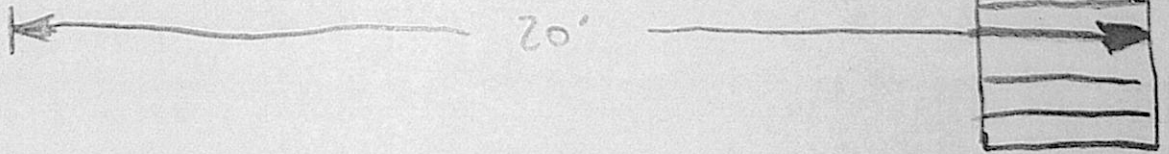


Height difference - 42"
Length - 27'
pitch 1 1/2 / 12



House

Deck



Extising roof lines

