ANN ARBOR HISTORIC DISTRICT COMMISSION

Staff Report

ADDRESS: 523 Fourth Street, Application Number HDC20-094

DISTRICT: Old West Side Historic District

REPORT DATE: July 9, 2020

REPORT PREPARED BY: Jill Thacher, Historic Preservation Coordinator

REVIEW COMMITTEE DATE: Monday, July 6, 2020

OWNER

Name:Dan & Tina EzekielAddress:523 Fourth StreetAnn Arbor, MI 48103Phone:(734) 709-6024

Rueter Associates Architects 515 Fifth Street Ann Arbor, MI 48103 (734) 769-0070

APPLICANT

BACKGROUND: The Carl F. and Pearl E. Wild house was built in 1928 and first occupied in 1929. Mr. Wild was a janitor at Schaeberle & Sons Music House (110 S Main, currently Vinology). This 1 ½ story Arts & Crafts style bungalow features bracketed eaves, three-over-one windows, a large, gabled, street-facing dormer and a full-width front porch with wood sided half-walls.

LOCATION: The house is on the east side of Fourth Street, south of West Jefferson and north of West Madison.

APPLICATION: The applicant seeks HDC approval to modify a contributing garage with the following work: remove and rebuild a modern side addition in a design more suitable for a workshop, replace a non-original person door, place solar panels on the south-facing roof, and add a small shed roof addition off the rear.

APPLICABLE REGULATIONS:

From the Secretary of the Interior's Standards for Rehabilitation:

- (1) A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.
- (2) The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.

(10) New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property will be unimpaired.

From the Secretary of the Interior's Guidelines for Rehabilitating Historic Buildings (other SOI Guidelines may also apply):

District or Neighborhood Setting

<u>Not Recommended</u>: Introducing new construction into historic districts that is visually incompatible or that destroys historic relationships within the setting.

Roofs

<u>Recommended</u>: Designing and constructing a new feature when the historic feature is completely missing, such as a chimney or cupola. It may be an accurate restoration using historical, pictorial, and physical documentation; or be a new design that is compatible with the size, scale, material, and color of the historic building.

<u>Not Recommended</u>: Radically changing, damaging, or destroying roofs which are important in defining the overall historic character of the building so that, as a result, the character is diminished.

Introducing a new roof feature that is incompatible in size, scale, material and color.

From the Ann Arbor Historic District Design Guidelines (other Guidelines may apply):

Solar

<u>Appropriate</u>: Mounting solar panels at grade or on ground pole mountings. In the absence of an appropriate ground-based mounting location, panels should be mounted on side or rear facing roof surfaces.

Installing mechanical and service equipment on the roof related to the solar units and their related devices so that they are inconspicuous from the public right-of-way and do not damage or obscure character-defining features.

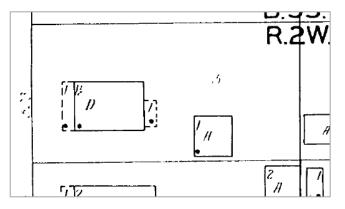
For sloped roof installations, mounting solar panels parallel to and within 8" of roof surface.

<u>Not Appropriate</u>: Mounting solar panels and their related devices on primary elevations or roofs that face the primary elevation or in planes that are highly visible from the street view. This location has the highest impact on the historic character of the historic building and all other options should be thoroughly explored.

Any other alteration or installation procedure that will cause irreversible changes to historic features or materials.

STAFF FINDINGS:

- The 1931 Sanborn Fire Insurance Map (right) shows the house and garage. The garage features a clipped gable in front and the front elevation currently has a rollup door on half and a person door and window on the other half. It was probably originally two car doors.
- 2. The side screen porch was built after the period of significance. It is not visible from the street. The owner



proposes to remove and rebuild it in the same dimensions, but with fewer windows. The interior wall separating it from the garage would be removed, to make one larger space suitable for a workshop. Also, a small shed roofed bumpout would be built on the rear of the garage. It is 4' deep, with sliding doors, and would replace some windows in non-original openings that were cut into the siding.

- 3. The new side wing and the bumpout would be clad in wood siding to match the existing garage. Windows would be Andersen clad wood. The proportions of the windows (casement and awning) are compatible. Solar conduits are shown appropriately on the back of the garage.
- 4. A new roof and solar panels are proposed on the south-facing roof of the garage. The panels would completely cover the roof surface, and extend 6" above the ridge. Since the garage is an accessory structure, the panels are removeable, and the height above the garage roof ridge will be barely visible from the street, staff believes it meets the standards and guidelines for solar.
- 5. Staff believes the solar panels, rebuilt addition and new rear bumpout do not significantly impact the historic design, massing, or features of the garage. All of the existing historic materials would remain intact, and the new work is differentiated from the old. Staff recommends approval of the application.

POSSIBLE MOTIONS: (Note that the motion supports staff findings and is only a suggestion. The Review Committee, consisting of staff and at least two Commissioners, will meet with the applicant on site and then make a recommendation at the meeting.)

I move that the Commission issue a Certificate of Appropriateness for the application at 523 Fourth Street, a contributing property in the Old West Side Historic District, to: remove and rebuild a modern side addition; replace a non-original person door; place solar panels on the south-facing roof; and add a small shed roof addition off the rear, as

proposed. The work is compatible in exterior design, arrangement, materials, and relationship to the garage and the surrounding area and meets *The Secretary of the Interior's Standards for Rehabilitation* and *Guidelines for Rehabilitating Historic Buildings,* in particular standards 1, 2, 9, and 10 and the guidelines for roofs and district or neighborhood setting, and the *Ann Arbor Historic District Design Guidelines* for solar.

ATTACHMENTS: application, drawings, photos

523 Fourth Street (2008 Survey Photo)



							OFFICE USE ONLY				
OF ANN	HISTORIC DISTRICT COMMISSION							HDC#			
	PLANN	SERVIC	Permit Number			HDC#					
	City Hall: 301 E. Huron St. Ann Arbor, MI 48104-6120 Mailing: P.O. Box 8647, Ann Arbor, MI 48107-8647 Phone: 734.794.6265 ext. 42608 jthacher@a2gov.org									BLDG#	
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APPLICA											
PROPERTY LOCAT		R INFORMATIO	N	and the second			_				and the second secon
NAME OF PROPERTY OWNER Dan and Tina Ezekiel								HISTORIC DISTRICT Old West Side			
PROPERTY ADDRESS											CITY Ann Arbor
523 Fourth Street											Ann Ardor
ZIPCODE											
48103 (734) 709-6024 dan.ezekiel24@gmail.com										STATE, ZIP	
PROPERTY OWNER'S ADDRESS (IF DIFFERENT FROM ABOVE)								SIT			STATE, ZIP
PROPERTY OWNER'S SIGNATURE											
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APPLICANT INFOR	MATION										
NAME OF APPLICANT (III Rueter Assoc											
ADDRESS OF APPLICANT										1	Ann Arbor
515 Fifth Stre	et	1									
STATE		ZIPCODE		PH	IONE	/ CELL #			FAX No		
Michigan		48103		(734)769-0070)		(7	34) 769-0167
EMAIL ADDRESS	crivens@	rueterarchite	ects.com								
APPLICANT'S SIGN							-				
	Mate	etc				Marc Rueter					DATE 6/19/20
BUILDING USE - CHECK ALL THAT APPLY											
SINGLE FAMILY		DUPLEX	RENTAL			MULTIPLE FAMILY		COMMERCI	AL		INSTITUTIONAL
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PROPOSED WORK

Describe in detail each proposed exterior alteration, improvement and/or repair (use additional paper, if necessary).

We are removing the non-historic side porch on the garage while maintaining the existing porch foundation. We will be reconstructing the porch area with new walls and roof to expand the existing garage. In addition to rebuilding the side porch area we will be removing the three sashes at the rear of the garage that are not original to the garage, they were cut into the siding and are not water tight. We are proposing to provide three new high clerestory windows. This will allow us to provide a new lean-to shed to back up to the rear of the garage to store gardening tools. The front door on the garage is also not original to the garage and we are asking to replace the current door as well. This original door was a used door, intended for interior use that was install on the exterior and is not functioning well. As part of this work the entire garage will be reroofed and painted.

ANN ARBOR HISTORIC DISTRICT COMMISSION

APPLICATION FOR DETERMINATION OF APPROPRIATENESS FOR THE Dan and Tina Ezekiel, 523 Fourth Street, Ann Arbor, 48103



LIST OF DRAWINGS

- T1. TITLE SHEET
- A1 SITE PLAN EXISTING
- A2 FLOOR PLAN
- A3 PHOTOS OF EXISTING
- A4 ELEVATIONS EXISTING
- A5 SITE PLAN PROPOSED
- A6 FIRST FLOOR PLAN PROPOSED
- A7 WEST ELEVATION(PROPOSED)
- A8. SOUTH ELEVATION (PROPOSED
- A9. EAST ELEVATION (PROPOSED)
- A10. NORTH ELEVATION (PROPOSED)

PHOTO: 523 Fourth St Garage - view rear yard, 1 story wood garage with attached enclosed porch.

HDC SUBMISSION 06.19.20 DRAFT

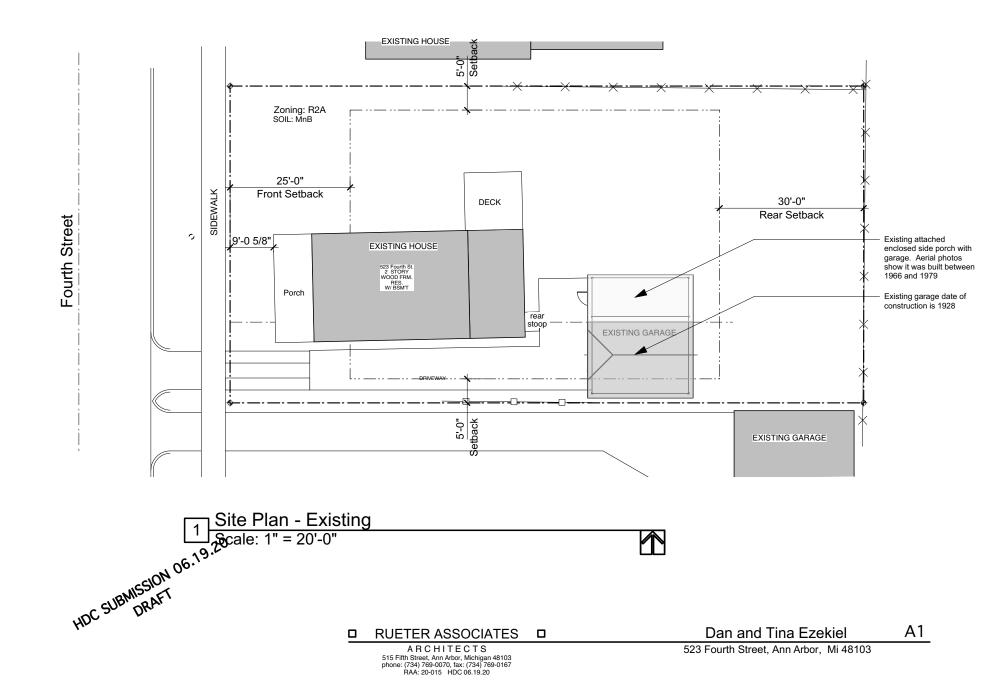
RUETER ASSOCIATES

A R C H I T E C T S 515 Fifth Street, Ann Arbor, Michigan 48103 phone: (734) 769-0070, fax: (734) 769-0167 RAA: 20-015 HDC 06.19.20

Dan and Tina Ezekiel

T1

523 Fourth Street, Ann Arbor, Mi 48103



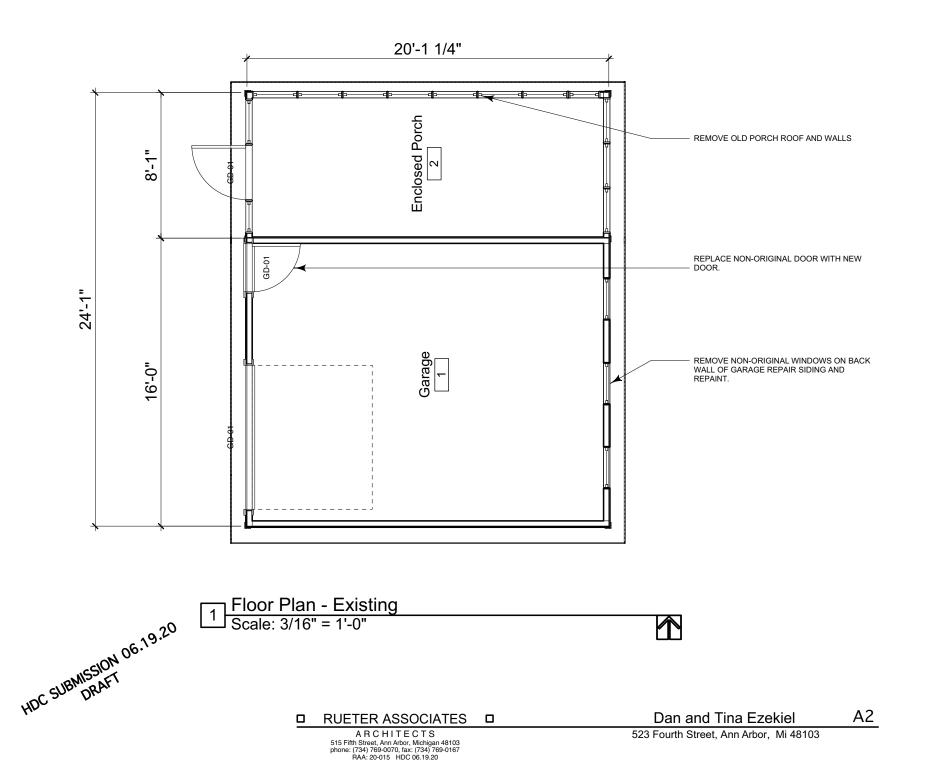




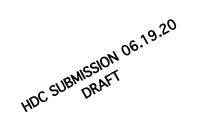
PHOTO: 523 Fourth St Garage - view rear yard, 1 story wood garage with attached enclosed porch.



PHOTO: 523 Fourth St Garage - view rear yard, 1 story wood garage with attached enclosed porch.



PHOTO: 523 Fourth St Garage - view rear yard, 1 story wood garage with attached enclosed porch.

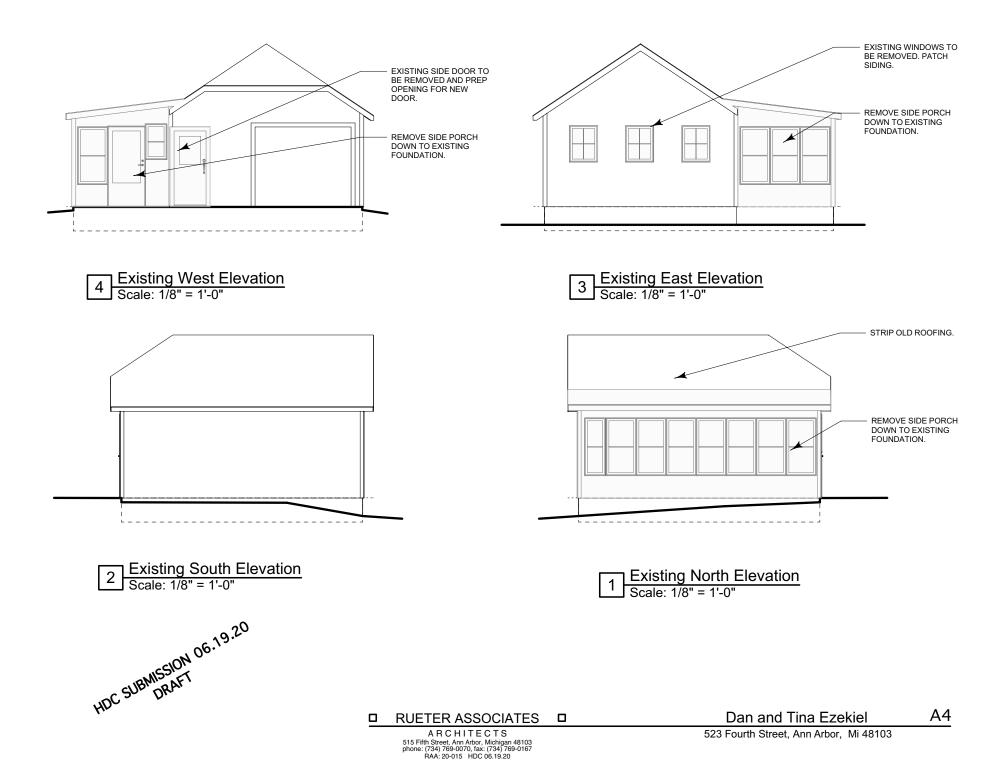


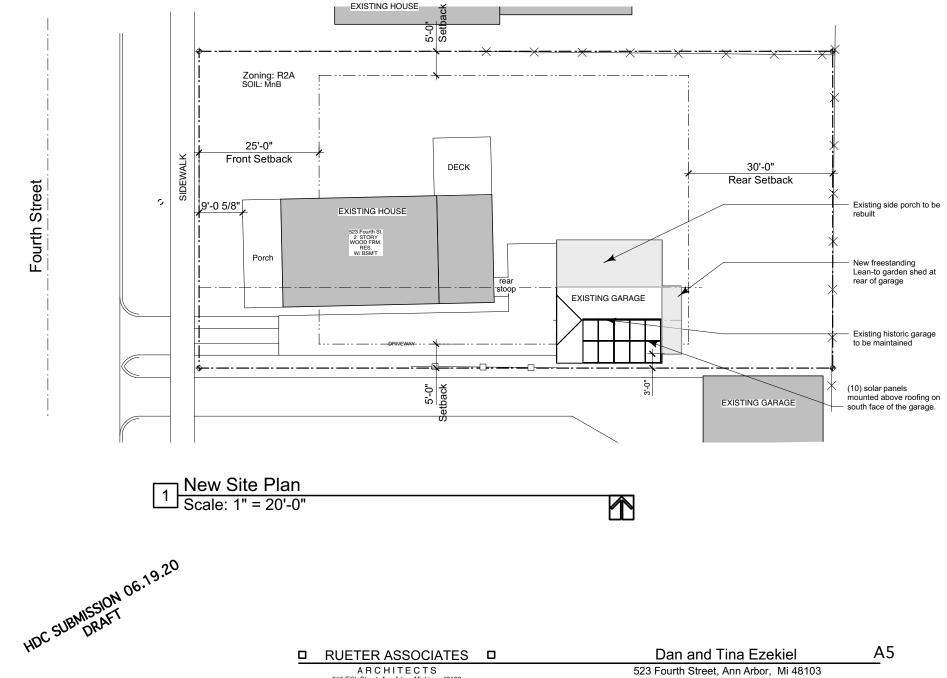
□ RUETER ASSOCIATES □

A R C H I T E C T S 515 Fifth Street, Ann Arbor, Michigan 48103 phone: (734) 769-0070, fax: (734) 769-0167 RAA: 20-015 HDC 06.19.20 Dan and Tina Ezekiel

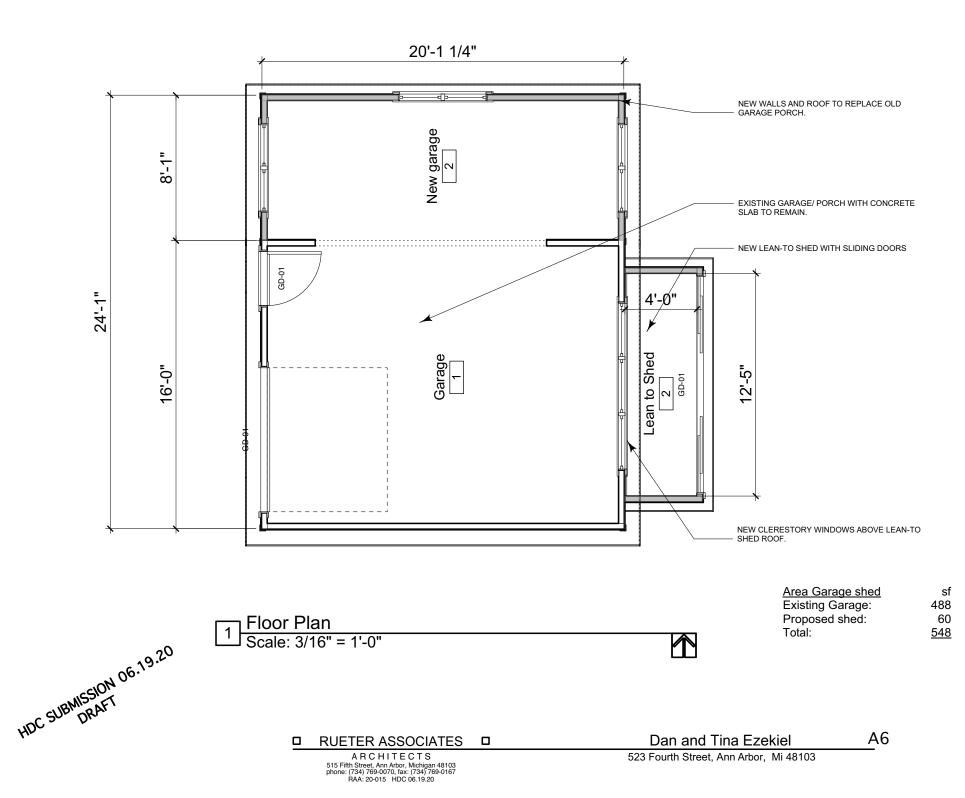
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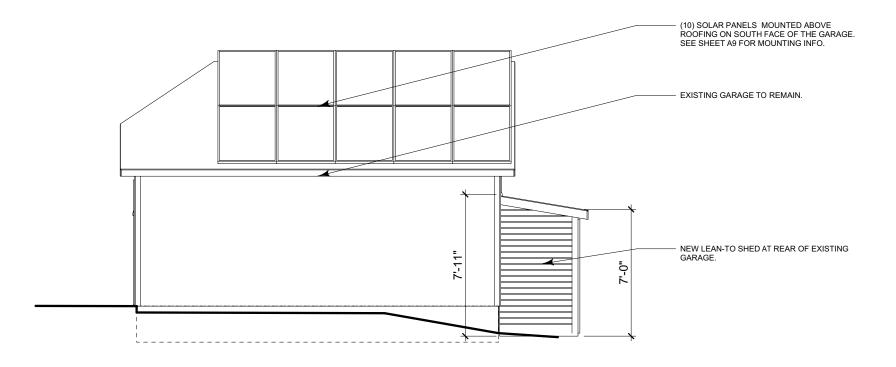
523 Fourth Street, Ann Arbor, Mi 48103



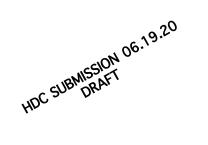


515 Fifth Street, Ann Arbor, Michigan 48103 phone: (734) 769-0070, fax: (734) 769-0167 RAA: 20-015 HDC 06.19.20





Proposed South Elevation Scale: 3/16" = 1'-0"



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523 Fourth Street, Ann Arbor, Mi 48103

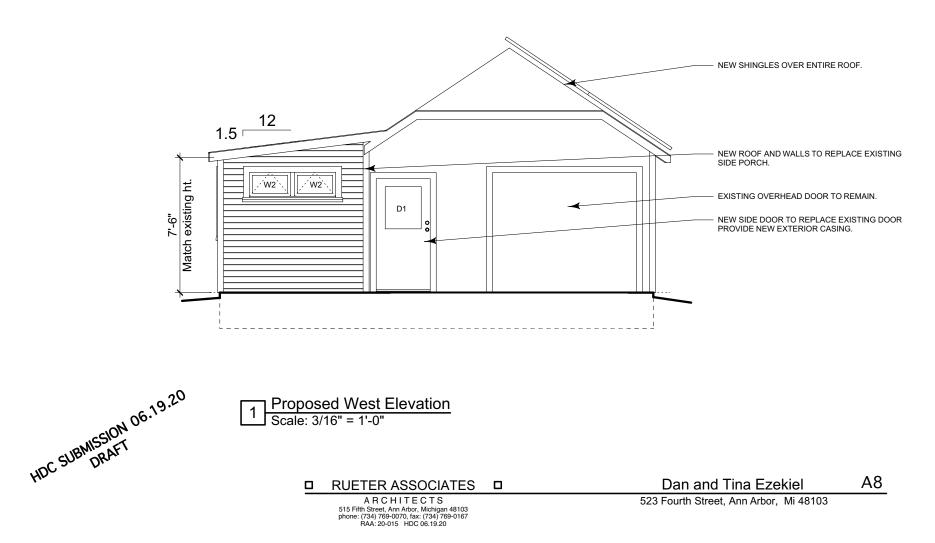
A7

WINDOW SCHEDULE

Mark	And.#	Туре	Unit Size W X H	Notes
W1	100CS2636	csmt	29 1/2, x 41 1/2"	1 lite
W2	100AS3016	awng	29 1/2", a 17 1/2"	1 lite

WINDOW NOTES:

Windows shall be Andersen A100 composite wood frame. Glazing shall be double glazed low e. Finish shall be white. Screens shall be supplied with all windows.



NEW ADDITION MATERIAL DESCRIPTION:

ROOF: Laminated asphalt shingles - existing to be replaced

FASCIA: 1"X 6" wd bd

GUTTERS: 5" K style alum gutters

GABLE RAKE BOARD 5/4"x 6" bd

FRIEZE BD (BELOW RAKE) 5/4"x 4"

SOFFITS: 3/4" preprimed trim with vents

CORNER BOARDS" 5/4" X 4" wd bd

SIDING: Pine vee grooved ship lap 8" spacing to match existing, color: painted.

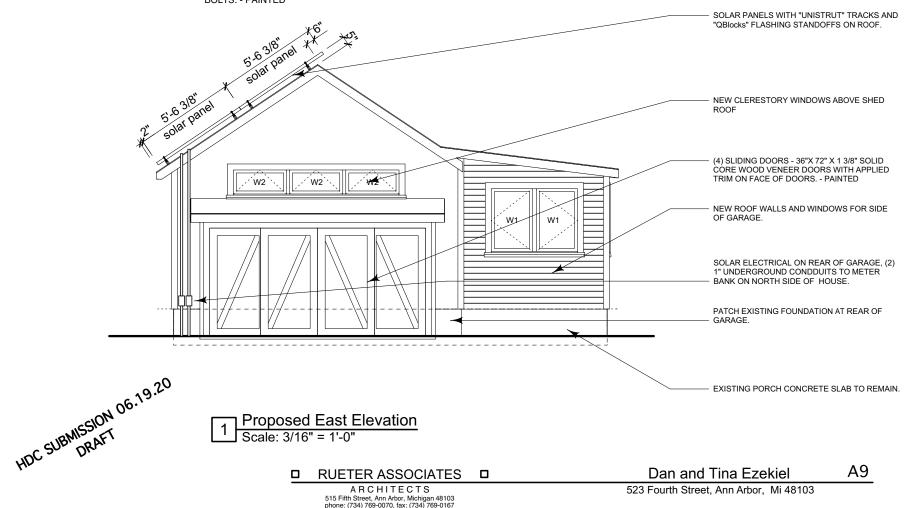
EXPOSED FOUNDATION: Concrete foundation to remain patch existing foundation at rear of garage.

WINDOWS: (W1,2) Andersen Composite wood windows with 5/4" X 4" WD casings

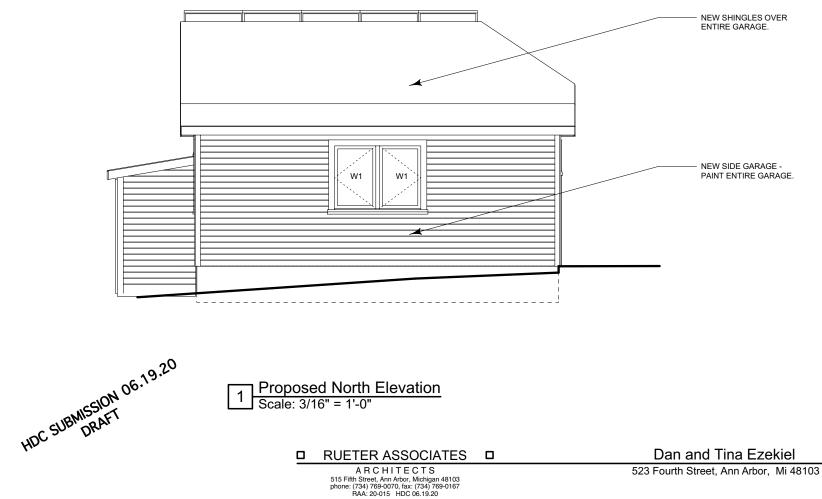
DOORS: Side door: (D1) JELD-WEN Premium Steel doors with half light Model # (CT-684) THDJW184700036

Overhead door: Existing - no change

SHED DOORS: (4) SLIDING DOORS - 36"X 72" X 1 3/8" SOLID CORE WOOD VENEER DOORS WITH APPLIED TRIM ON FACE OF DOORS, HUNG FROM TRACK, LOCKED WITH HASP AND SLIDE BOLTS. - PAINTED



RAA: 20-015 HDC 06.19.20





100 SERIES Windows



A BETTER CHOICE

Whether you're replacing, remodeling or building new, Andersen[®] 100 Series products offer many advantages over vinyl at a good value. They're made of our innovative Fibrex[®] composite material that's 2X stronger than vinyl, environmentally smart, energy efficient and offers superior strength and performance making them a better choice for your home.



• Fibrex material construction provides long-lasting performance

- Weatherstrip is designed to be an energy-efficient barrier against wind, water and dust
- Virtually seamless corners offer a cleaner, more contemporary look
- Premium matte finish never needs painting and won't fade, flake, blister or peel*
- 100 Series products have a 12X thicker finish than that of painted vinyl windows^{**} resulting in superior scratch resistance

- **PRODUCT TYPES**
- Casement windows
- Awning windows
- Single-hung windows
- Gliding windows
- Picture windows
- Transom windows
- Specialty Windows



100 SERIES Windows

PRODUCT OPTIONS

GLASS OPTIONS

- Low-E glass
- Low-E glass with HeatLock[®] technology
- Low-E Sun glass
- Low-E SmartSun[™] glass
- Low-E SmartSun glass with HeatLock technology

Tempered glass, sound reducing glass and patterned glass is available. Contact your Andersen supplier for availability.



FRAME OPTIONS

1 3/8" flange setback, 1" flange setback with stucco key or replacement configurations with or without an accessory kerf available.



HARDWARE OPTIONS*

SINGLE-HUNG & GLIDING

Standard



Lock automatically engages when window is closed. Hardware color matches the window's interior. Shown in white.

Bold name denotes finish shown.

Optional Slim Line Metal Hardware



Antique Brass | Black | **Dark Bronze** Sandtone | Satin Nickel | White

ACCESSORIES

CASEMENT & AWNING

Standard Folding



Antique Brass | Black | Dark Bronze Sandtone | Satin Nickel | White

Folding handle avoids interference with window treatments.

 Wireless Open/Closed Sensor Indicates if windows are open or closed[†] for peace of mind and feature a sleek, compact design for a clean appearance.

Grilles

Variety of grille options available including Finelight[™] grilles-between-the-glass for convenient cleaning and full divided light grilles for an authentic look. • Insect Screens

Optional TruScene[®] insect screens for windows provide 50% more clarity than our conventional insect screens, letting in more air and sunlight.



For more information, visit andersenwindows.com/100series

**Hardware is sold separately, except standard hardware. †When properly configured and maintained with a professionally installed security system and/or self-monitoring system compatible with Honeywell® 5800 controls.

Printing limitations prevent exact replication of colors and finishes. See your Andersen supplier for actual color and finish samples.

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Exterior Doors Steel Door Features

Contours[™] | Gladiator[®] | FiniShield[®]



EXTERIOR STEEL DOORS

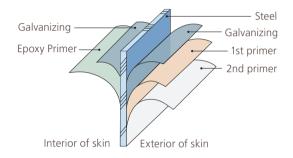


Every JELD-WEN[®] Steel exterior door is durable and economical.

It is by no coincidence that every JELD-WEN® Steel door comes with a 10-year limited warranty. This is a line of doors built to deliver on strength and durability, from our utility-grade Gladiator® to our premium-grade Contours[™].

They include wood stiles and rails with mitered top corners to prevent water absorption. Galvanized exterior door facings are factory-primed with neutral, low-sheen, baked-on enamel primer for easy finishing.

Consider how well these doors are constructed.



Steel Door Sticking Profiles







 Tiered Sticking (CT)







Fire-Rated Doors Our fire-rated steel doors are made to meet or exceed local fire rating building codes for both residential and light commercial use. For true fire protection, these doors must be used with certified frames and hardware. Fire rated doors available in Contours[™] steel only.

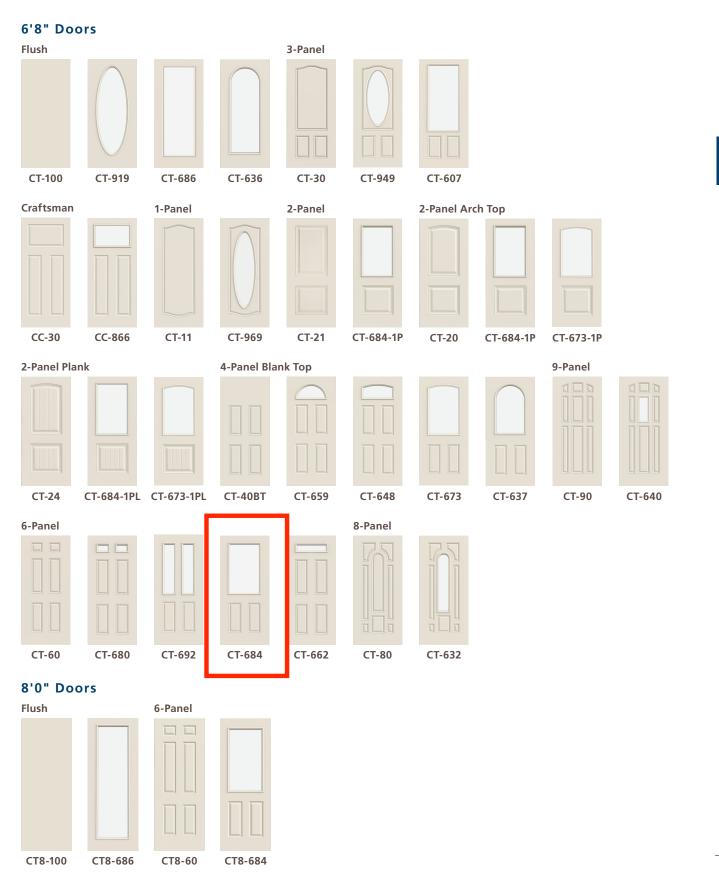


Ask your sales associate which JELD-WEN[®] doors are ENERGY STAR[®] qualified.



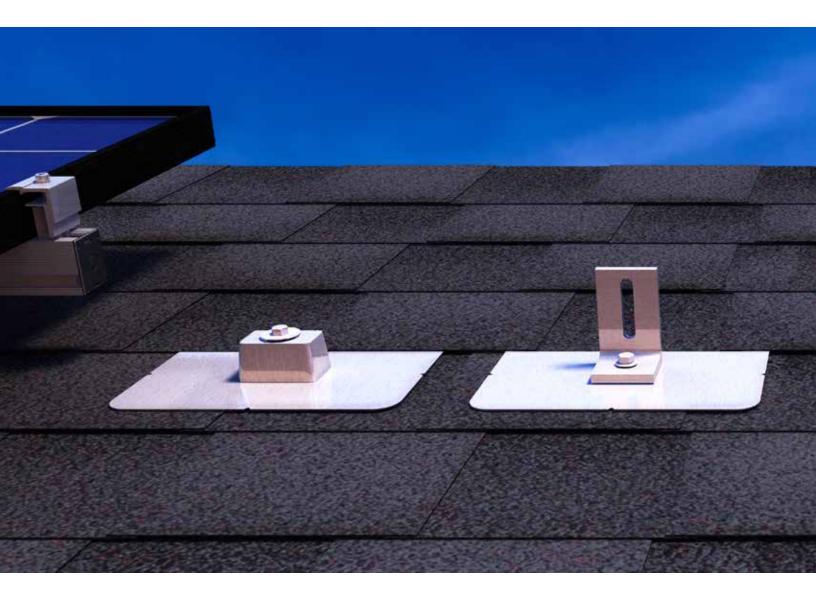
Visit **www.jeld-wen.com** for complete warranty information.

STANDARD GLASS INSERT CUTOUTS



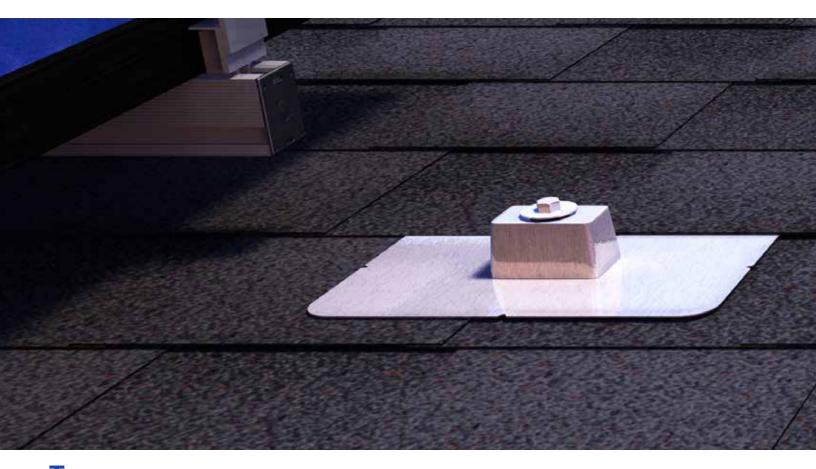
*Contours, FiniShield and Gladiator Sunburst and Camber Top designs have different top rail dimensions. See specifications at **www.jeld-wen.com**

Solar Mounting Solutions Composition/Asphalt Shingle Roofs





OBlock® Composition Mounts



he Classic Composition Mount and the E-Mount series are designed for fast, simple installation onto existing composition/asphalt shingle roofs. Both mounts use Quick Mount PV's QBlock Elevated Water Seal Technology[®] for a long, watertight life on the roof. Both series are also available with multiple attachment options: lag bolt, hanger bolt and extended hanger bolt.

Use the Classic Composition Mount when your project demands the highest quality mount on the market. The heavier, 12" x 12" flashing provides added protection for extreme climate zones.

The E-Mount, with a smaller, lighter flashing, is ideal for price-sensitive jobs in less extreme, milder climate zones.

FEATURES

- QBlock[®] Elevated Water Seal Technology[®]
- Works with all leading racks
- Single bolt installation, no shingle cutting
- Aluminum flashing
- Approved by leading roof manufacturers, won't void roof warranty
- Meets or exceeds roofing industry best practices; 100% IBC compliant
- 18-8 stainless steel hardware included
- Alignment guides
- ICC-ES certified (ICC-ESR-3744)
- 25-year warranty

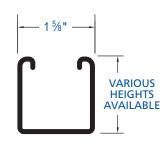
Unistrut Framing Systems

UNISTRUT

THE MOST COMPLETE METAL FRAMING SYSTEM - FOUR CHANNEL-WIDTH OPTIONS

Adjustability, demountability and reusability are engineered into each of the four Unistrut channel series. Each series offers channels of varying depth and gage plus a complete line of fittings and accessories.





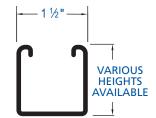


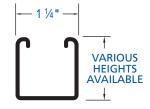
1¹/₄" width Series Channel



¹³/16" width Series Channel









1⁵/₈" (41.3 mm) width

Designed to carry the heaviest loads and provide the widest variety of applications, the 1⁵/₈" series has become the accepted standard for use in mechanical, electrical and general construction applications where supports and attachments must meet the highest strength requirements.

1¹/₂" (38.1 mm) width

A framing system designed for medium to heavy loads, the 1¹/₂" series offers hole spacing and fittings where all parts fit together, no matter where they're used, or at what angle.

1¹/₄" (31.8 mm) width

A framing system designed for medium loads, the 1¹/₄" series is especially suitable for use in the OEM, commercial and display markets. It maintains a lightness in scale and a clean line that makes it aesthetically pleasing as well as functional.

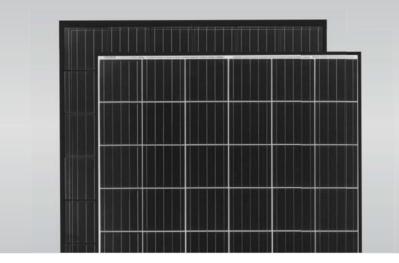
¹³/₁₆" (20.6 mm) width

A unique half-size reduction of the 1⁵/₈" channel-width series, this smaller channel size can be used to carry light loads economically in applications such as instrumentation, retail displays and lightduty laboratory supports. It also provides the flexibility found in all Unistrut framing systems.



Eagle 60M G2 305-325 Watt MONO PERC MODULE

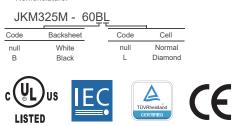
Positive power tolerance of 0~+3%





- ISO9001:2008 Quality Standards
- ISO14001:2004 Environmental Standards
- OHSAS18001 Occupational Health & Safety Standards
- IEC61215, IEC61730 certified products
- UL1703 certified products

Nomenclature:



KEY FEATURES



Diamond Cell Technology Uniquely designed high performance 5 busbar mono PERC cell



PID FREE World's 1st PID Free module



Low-light Performance Advanced glass technology improves light absorption and retention



Strength and Durability Certified for high snow (5400 Pa) and wind (2400 Pa) loads



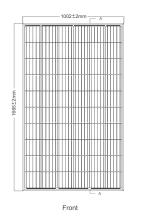
Weather Resistance Certified for salt mist and ammonia resistance

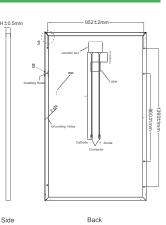
LINEAR PERFORMANCE WARRANTY

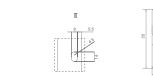
10 Year Product Warranty • 25 Year Linear Power Warranty



Engineering Drawings







A-A

Packaging Configuration

(Two pallets = One stack)

30pcs/pallet, 60pcs/stack, 780pcs/40'HQ Container

SPECIFICATIONS

Module Type JKM305M-60L JKM310M-60L JKM315M-60L JKM320M-60L JKM325M-60L STC NOCT STC NOCT STC NOCT STC NOCT STC NOCT Maximum Power (Pmax) 315Wp 235Wp 325Wp 242Wp 305Wp 227Wp 310Wp 231Wp 320Wp 239Wp Maximum Power Voltage (Vmp) 32.8V 30.8V 33.0V 31.0V 33.2V 31.2V 33.4V 31.4V 33.6V 31.6V Maximum Power Current (Imp) 9.30A 7.40A 9.40A 7.49A 9.49A 7.56A 9.59A 7.62A 9.68A 7.66A Open-circuit Voltage (Voc) 40.3V 37.2V 40.5V 37.4V 40.7V 40.9V 37.8V 41.1V 38.0V 37.6V Short-circuit Current (Isc) 9.83A 8.12A 9.92A 8.20A 10.04A 8.33A 10.15A 8.44A 10.20A 8.54A Module Efficiency STC (%) 18.28% 18.58% 18.88% 19.18% 19.48% Operating Temperature (°C) -40°C~+85°C 1000VDC(UL)/1000VDC(IEC) Maximum System Voltage 20A Maximum Series Fuse Rating 0~+3% Power Tolerance -0.39%/°C Temperature Coefficients of Pmax -0.29%/°C Temperature Coefficients of Voc Temperature Coefficients of Isc 0.048%/°C 45±2°C Nominal Operating Cell Temperature (NOCT)

STC: *i*Irradiance 1000W/m²



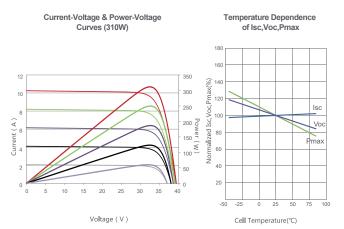


NOCT: 🎉 Irradiance 800W/m² 🌆 Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

* Power measurement tolerance: ± 3%

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. © Jinko Solar Co., Ltd. All rights reserved. Specifications included in this datasheet are subject to change without notice. US-MKT-325M-60L_1.0_rev2018

Electrical Performance & Temperature Dependence



Mechanical Characteristics Cell Type Mono PERC Diamond Cell (158.75 x 158.75 mm) No. of cells 60 (6×10) 1665×1002×35mm (65.55×39.45×1.38 inch) Dimensions Weight 19.0 kg (41.9 lbs) 3.2mm, Anti-Reflection Coating, Front Glass High Transmission, Low Iron, Tempered Glass Frame Anodized Aluminium Alloy Junction Box IP67 Rated Output Cables 12 AWG, Length 1000mm or Customized Length Fire Type Type 1