ANN ARBOR HISTORIC DISTRICT COMMISSION

Staff Report

ADDRESS: 822 W Jefferson Street, Application Number HDC15-038

DISTRICT: Old West Side Historic District

REPORT DATE: April 7, 2015

REPORT PREPARED BY: Jill Thacher, Historic Preservation Coordinator

REVIEW COMMITTEE DATE: Monday, April 4, 2015

OWNER APPLICANT

Name: Urban Energy Works LLC Same

Panos Tharouniatis

Address: 2847 Boardwalk Drive

Ann Arbor, MI

Phone: (734) 945-6154

BACKGROUND: This vacant lot was formerly part of a larger lot that included the houses at 818 and 814 West Jefferson. It appears to have always been vacant.

LOCATION: The site is located on the northeast corner of West Jefferson and South Seventh

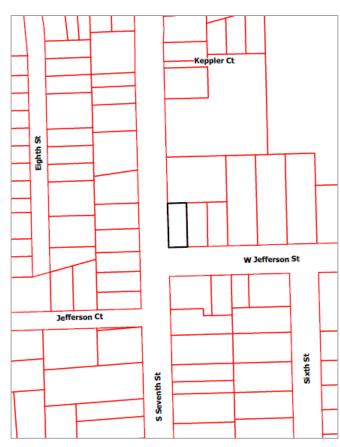
Streets.

APPLICATION: The applicant seeks HDC approval to construct a new two-story home on the lot and remove a landmark tree.

APPLICABLE REGULATIONS

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

- (9) New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
- (10) New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the



future, the essential form and integrity of the historic property and its environment would be unimpaired.

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

District/Neighborhood

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

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

Guidelines for All New Construction

Appropriate

- Retaining site features that are important to the overall historic character
- Retaining the historic relationship between buildings, landscape features and open space
- Designing new features so they are compatible with the historic character of the site, district, and neighborhood
- Basing the site location of new buildings on existing district setbacks, orientation, spacing and distance between adjacent buildings
- Designing new sidewalks, entrances, steps, porches and canopies to be consistent with the historic rhythm established in the district
- Designing new buildings to be compatible with, but discernible from, surrounding buildings that contribute to the overall character of the historic district in terms of height, form, size, scale, massing, proportions, and roof shape

Not Appropriate

- Introducing any new building that is out of scale or otherwise inappropriate to the setting's historic character
- Introducing a new feature that is visually incompatible with or that destroys the patterns of the site or the district
- Introducing new construction onto a site or in a district, which is visually incompatible in terms of size, scale, design, materials, and texture or which destroys relationships on the site or the district

New Construction in Historic Residential Settings

Appropriate

- Maintaining the existing spacing of front and side yard setbacks along a block as seen from the street
- Orienting the front of a house towards the street and clearly identifying the front door
- Designing a new front façade that is similar in scale and proportion to surrounding buildings that contribute to the overall character of the historic district
- Designing the spacing, placement, scale, orientation, proportion, pattern and size of window and door openings in new buildings to be compatible with surrounding historic buildings
- Selecting materials and finishes that are compatible with historic materials and finishes found in surrounding buildings that contribute to their historic character
- Placing utility connections at the rear or other locations that minimize visibility from the street

Not Appropriate

- Paving a high percentage of a front yard area or otherwise disrupting the landscape pattern within front yard setbacks
- Placing a structure outside of the existing pattern of front yard setbacks along a historic residential block

STAFF FINDINGS

- 1. The site is currently vacant and has been used as a garden and landscaped area for the home as 818 next door. On the center of the lot is a landmark spruce tree that would have to be removed to allow construction of a house.
- 2. The proposed house's front setback along West Jefferson is consistent with those of other homes on the block, as is the gable-front orientation and height of the roof ridge. To make the building discernible from surrounding houses that contribute to the historic character of the Old West Side, the design incorporates an offset roof ridge and two-story stair enclosure on the east side that reflect modern architectural practices.
- 3. The front façade reflects the proportions and features of contributing structures on the block in its height, fenestration, and inset front porch. The triple-glazed windows are casements throughout the house, with deeply inset glazing that will cast strong shadow lines.
- 4. The west side elevation (facing South Seventh), is more modern in appearance, mainly because of the irregular size and spacing of the second floor windows. The lot slopes and is about seven feet higher in the front than at the back, This allows a driveway off South

- Seventh and a garage partially underneath the house. On top of the other part of the garage is a deck accessed from the main floor of the house, and a stairway leading down to the backyard.
- 5. Materials include cladding of smooth cementitious lap siding on most of the house, with the exception of the east side of the stair enclosure which is clad in tongue-and-groove vertical wood. Window, soffit, and other trim is "engineered". The front and rear porch railings and posts are wood, and the base of the front porch is clad in brick veneer. Front and rear doors are fiberglass with a single full light. Windows are triple-paned vinyl. A basement egress window and well are located near the front of the house on the west elevation. Staff feels the proposed materials are modern yet compatible in appearance with the surrounding district.
- 6. A landscape plan is provided that shows native plant materials and grapevine trellises along the rear property line. The landscaping is appropriate in layout and scale for the proposed house and surrounding district.
- 7. Both roof faces are proposed to be covered by solar panels. The panels are in three equally sized and spaced groups on the west-face. The larger east roof-face has more panels, also in three groups. Since the building is modern and the solar does not necessarily need to be hidden in a way that is appropriate on most historic homes, staff feels that silver-edged panels are acceptable (instead of black-on-black).
- 8. The building reflects the scale and massing of the adjacent properties, and modern materials reflect the historic materials used on the adjacent buildings. It is staff's opinion that the proposed house is generally compatible in exterior design, arrangement, texture, material and relationship to the surrounding neighborhood and meets *The Secretary of the Interior's Standards for Rehabilitation* and *Guidelines for Rehabilitation*, particularly numbers 9 and 10, and the *Ann Arbor Historic District Commission Guidelines* for new construction.

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 822 West Jefferson Street, a contributing property in the Old West Side Historic District, to permit the construction of a 2 story residence as detailed on the submitted drawings. The proposed work is compatible in exterior design, arrangement, texture, material and relationship to the surrounding resources and meets *The Secretary of the Interior's Standards for Rehabilitation* and *Guidelines for Rehabilitating Historic Buildings*, in particular standards 9 and 10, and the *Ann Arbor Historic District Design Guidelines*, particularly those for new construction.

MOTION WORKSHEET:

I move that the Commission issue a Certificate of Appropriateness for the work at <u>822 West Jefferson Street</u> in the <u>Old West Side</u> Historic District

Provided the following condition(S) is (ARE) met: 1) STATE CONDITION(s)

The work is generally compatible with the size, scale, massing, and materials and meets the Secretary of the Interior's Standards for Rehabilitation, standard(S) number(S) (circle all that apply): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

ATTACHMENTS: application, photos, drawings.



822 W Jefferson (September 2014 photo, courtesy Google Streetview)





City of Ann Arbor PLANNING & DEVELOPMENT SERVICES — PLANNING SERVICES

301 E. Huron Street | P.O. Box 8647 | Ann Arbor, Michigan 48107-8647 p. 734.794.6265 | f. 734.994.8312 | planning@a2gov.org

ANN ARBOR HISTORIC DISTRICT COMMISSION APPLICATION

Section 1: Property Being Reviewed and Ownership Information
Address of Property: 822 W. Jefferson St.
Historic District: Old West Side
Name of Property Owner (If different than the applicant):
Address of Property Owner:
Daytime Phone and E-mail of Property Owner:
Signature of Property Owner:
Section 2: Applicant Information
Name of Applicant: Urban Energy Works LLC / Panos Tharouniatis
Address of Applicant: 2847 Boardwalk Dr.
Daytime Phone: (_734_) 945 6154 Fax:()
E-mail: panos@urbanenergyworks.com
Applicant's Relationship to Property: X_ownerarchitectcontactorother
Signature of applicant: Date:
Section 3: Building Use (check all that apply)
X Residential X Single Family Multiple Family Rental
Commercial Institutional
Section 4: Stille-DeRossett-Hale Single State Construction Code Act (This item MUST BE INITIALED for your application to be PROCESSED)
Public Act 169, Michigan's Local Historic Districts Act, was amended April 2004 to include the following language: "the applicant has certified in the application that the property where the work will be undertaken has, or will have before the proposed completion date, a a fire alarm or smoke alarm complying with the requirements of the Stille-DeRossett-Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1501 to 125.1531."
Please initial here:

Section 5: Description of Proposed Char	nges (attach additional sheets as necessary)
Provide a brief summary of proposed	d changes. <u>see attached</u>
Provide a description of existing cond	ditions. <u>see</u> attached
3. What are the reasons for the propose	ed changes? See a Hached
	t will further explain or clarify the proposal, and indicate
Attach any additional information that these attachments here.	
4. Attach any additional information that these attachments here. 5. Attach photographs of the existing prophetos of proposed work area.	see attached.
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Section 5: Description of Proposed Changes (attach additional sheets as necessary)

1. Provide a brief summary of proposed changes.

We propose to build a new 2160 ft^2 , two-story, single-family spec home on an unbuilt lot.

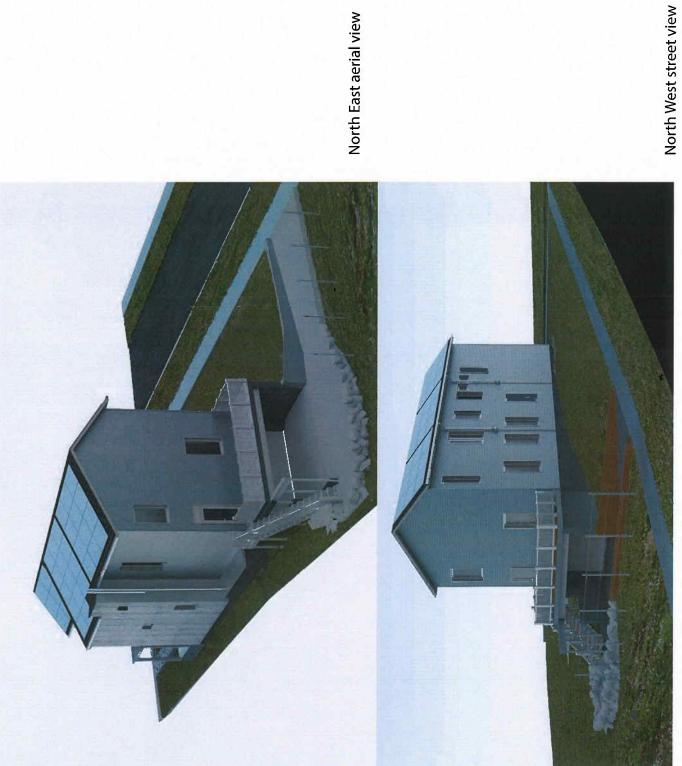
2. Provide a description of existing conditions.

The lot was previously owned by the neighbor, 818 W. Jefferson St. It has no record of an occupied structure. The lot currently has vegetation consisting of grasses and other low plantings, bushes, a small garden tended by the previous owner, and trees of varying maturity.

3. What are the reasons for the proposed changes?

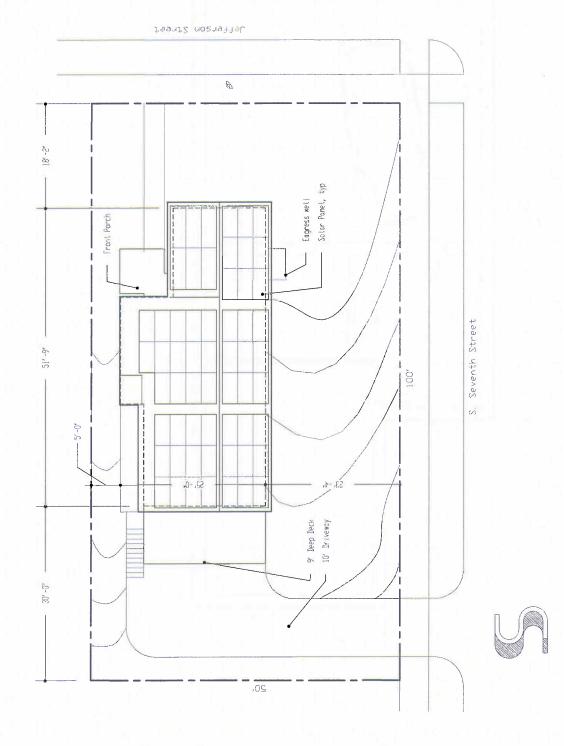
We want to build a home and sell it.

UEW 3.20.15 HDC 822 W. Jefferson St



North East aerial view

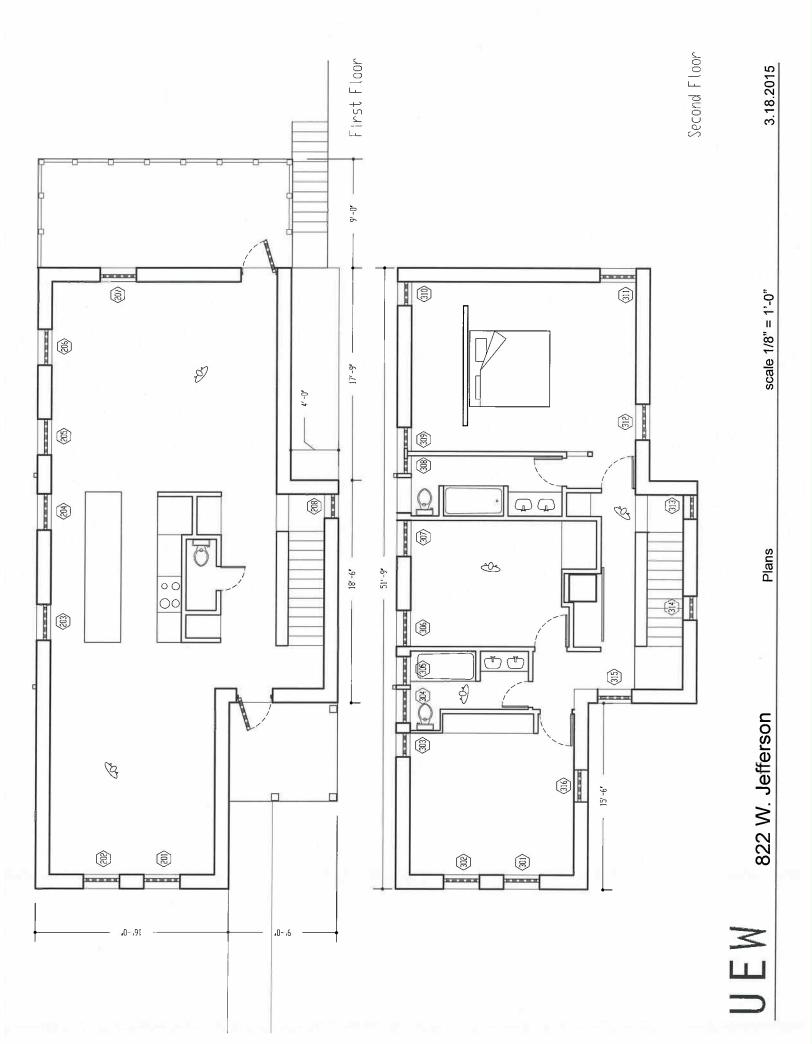
822 W. Jefferson



822 Jefferson Lot sizer 5000 sf Zoning R2A Setbacks: 25F, 30R, 5S Height: 30

Setback determination Jefferson Street Ch55 5i 57 818 Jefferson 15'7' 814 Jefferson 15'8' 810 Jefferson 22'10' Avrg Setback 18'0' South Seventh Street Ch55 5:58 Minimum building width 25′ Rear lot coverage Ch55 5:59 Rear setback area: 30'*50'=1500sf Maximum coverage 35'*1500sf=525sf Actual 25'x9'=225'<525sf

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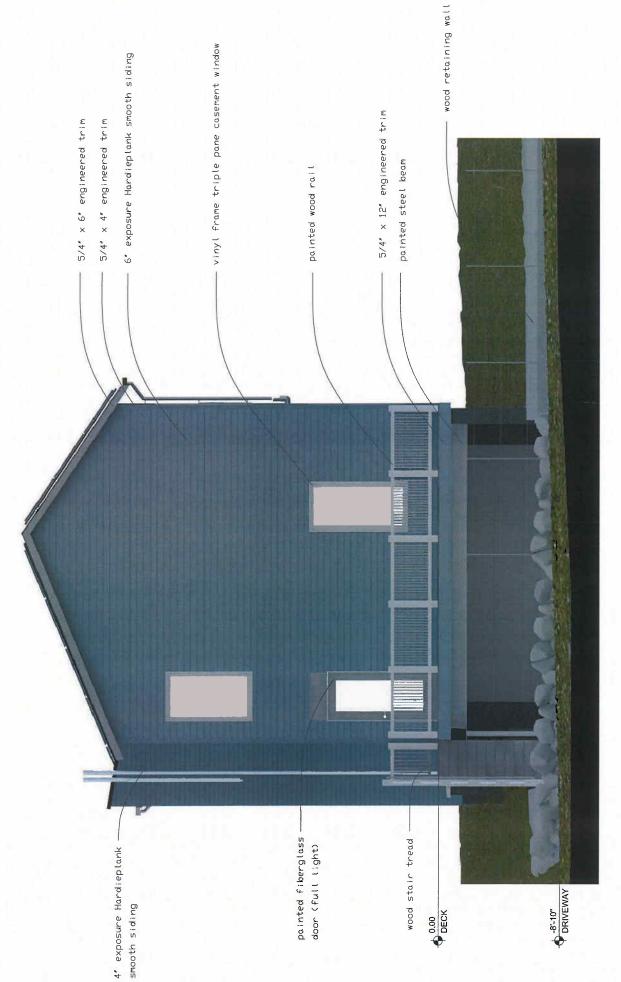
Width | Height | Material | Manufacturer

Model

vinyl frame triple pane casement window 4' exposure Hardieplank smooth siding 6" exposure Hardieplank smooth siding Painted fiberglass door (full (ight) 5/4" x 6" engineered trim 5/4" x 4" engineered trim Wood (primed and painted) 55, -0, ,9-,0I

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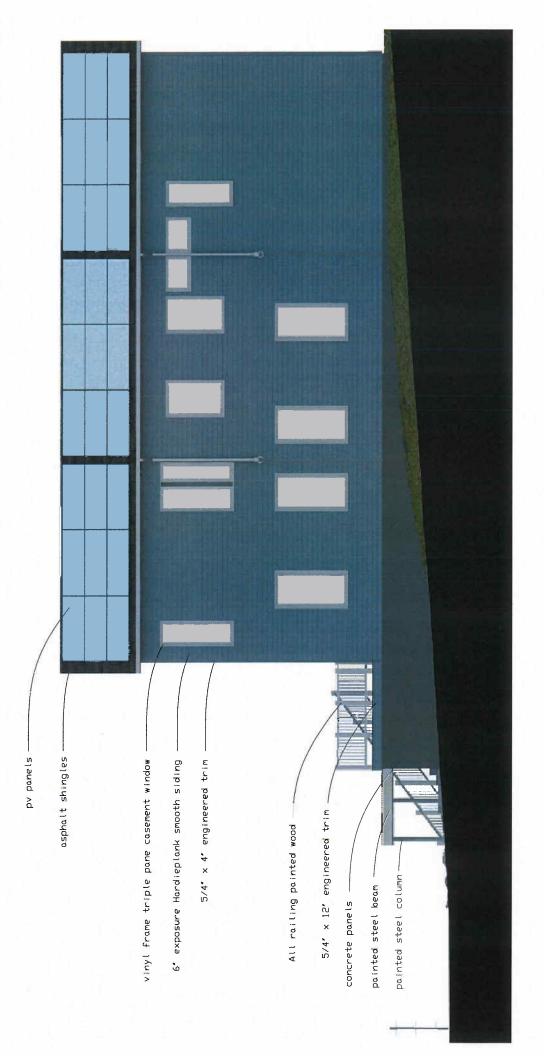
57, -5"



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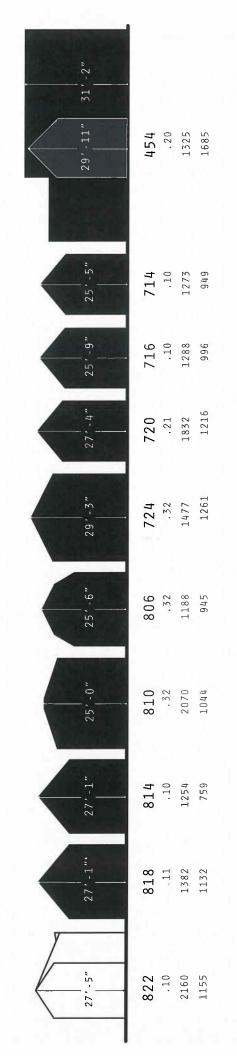
East Elevation

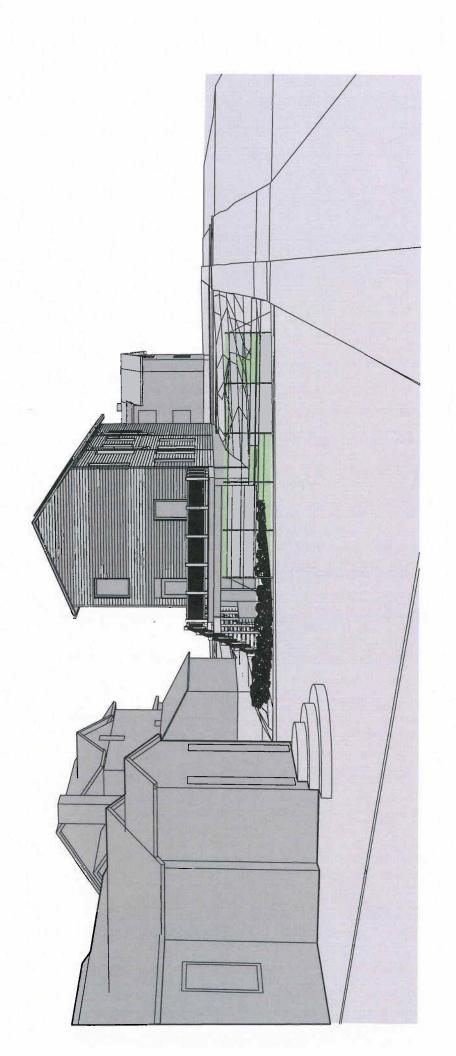


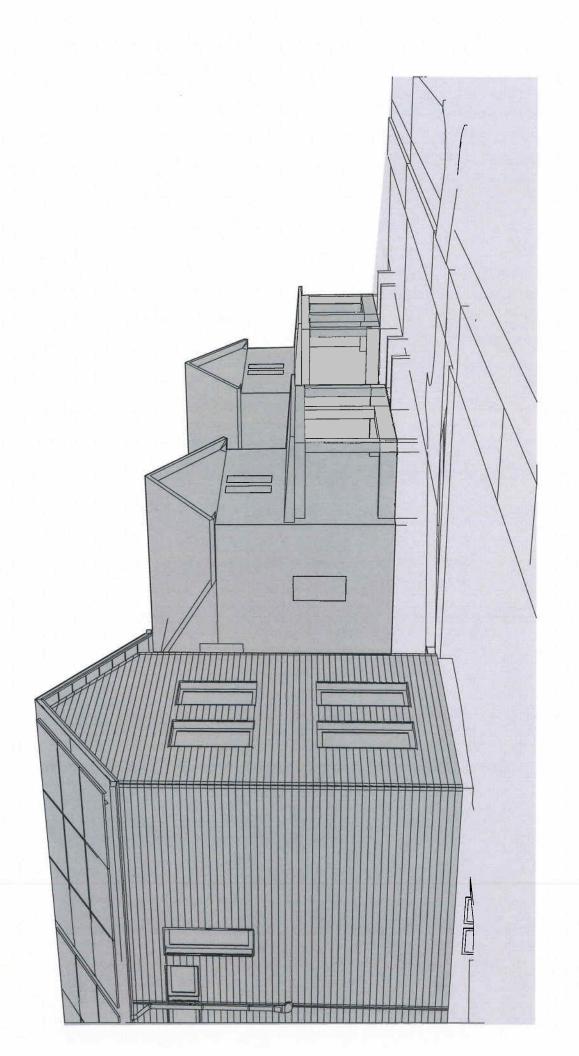
N E W

West Elevation









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822 W. Jefferson

Landscape Plan



822 W. Jefferson



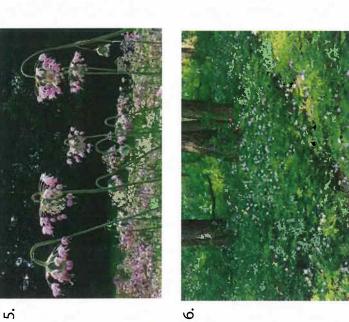
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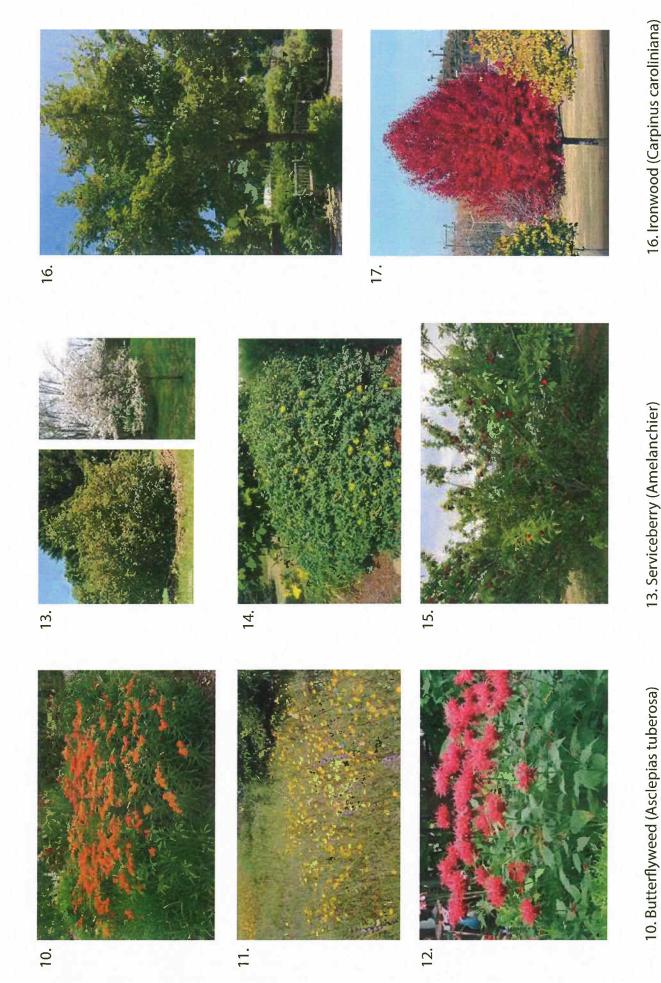
4. Prairie dropseed (Sporobolus heterolepis)5. Nodding wild onion (Allium cernuum)6. Wild geranium (Geranium maculatum)

2. Little bluestem (Schizachyrium scoparium) 3. Buffalo grass (Bouteloua dactyloides)

1. Switch grass (Panicum virgatum)

KΕΥ

8. Purple coneflower (Echinacea purpurea) 9. Wild indigo (Baptisia australis) 7. Strawberry (Fragaria ananassa)



16. Ironwood (Carpinus caroliniana) 17. Black gum (Nyssa sylvatica) 14. Shrubby St. John's wort (Hypericum prolificum) 15. Beach plum (Prunus maritima)

13. Serviceberry (Amelanchier)

12. Beebalm (Monarda)

11. Western sunflower (Helianthus occidentalis)

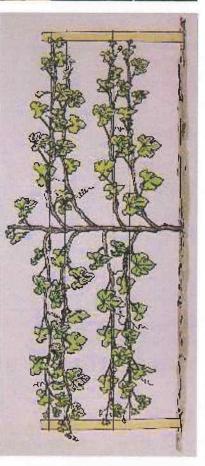
822 W. Jefferson



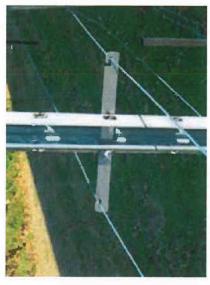
712 Daniel St., Ann Arbor



Michigan Yineyard



grapevine



Trellis system

UEW



The new Q.PRO-G3 is the reliable evergreen for all applications. The third module generation from Q CELLS has been optimised across the board: improved output yield, higher operating reliability and durability, quicker installation and more intelligent design.

INNOVATIVE ALL-WEATHER TECHNOLOGY

- Maximum yields with excellent low-light and temperature behaviour.
- · Certified fully resistant to level 5 salt fog

ENDURING HIGH PERFORMANCE

- Long-term Yield Security due to Anti PID Technology¹, Hot-Spot Protect, and Traceable Quality Tra.Q™.
- Long-term stability due to VDE Quality
 Tested the strictest test program.

SAFE ELECTRONICS

- Protection against short circuits and thermally induced power losses due to breathable junction box and welded cables
- Increased flexibility due to MC4-intermateable connectors.the entire production process from cells to modules while making Q CELLS solar modules forgery proof.

PROFIT-INCREASING GLASS TECHNOLOGY

- Reduction of light reflection by 50%, plus long-term corrosion resistance due to high-quality
- · Sol-Gel roller coating processing.

LIGHTWEIGHT QUALITY FRAME

 Stability at wind loads of up to 5400 Pa with a module weight of just 19 kg due to slim frame design with high-tech alloy.

MAXIMUM COST REDUCTIONS

• Up to 31% lower logistics costs due to higher module capacity per box.

EXTENDED WARRANTIES

 Investment security due to 12-year product warranty and 25-year linear performance warranty².





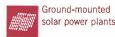


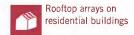


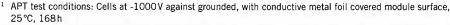


THE IDEAL SOLUTION FOR:









See data sheet on rear for further information.



MECHANICAL SPECIFICATION

format 65.7 in × 39.4 in x 1.38 in (including frame)

(1670 mm × 1000 mm × 35 mm)

Weight 41.89 lb (19.0 kg)

Front Cover 0.13 in (3.2 mm) thermally pre-stressed glass

with anti-reflection technology

Back Cover Composite film

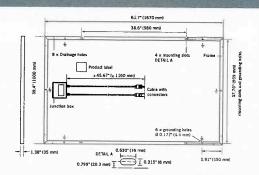
Frame Anodized aluminum

Cell 6×10 polycrystalline solar cells

Junction box Protection class IP67, with bypass diodes

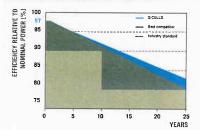
Cable 4 mm² Solar cable; (+) ≥ 45.67 in (1160 mm), (-) ≥ 45.67 in (1160 mm)

Connector SOLARLOK PV4, IP68



ELECTRICAL CHARACTERISTICS	HAX BULL	RES DE	Charles and Charles	Kata a Kata a ta	THE THE PARTY OF T	ERICKET!
PERFORMANCE AT STANDARD TEST COND	ITIONS (STC: 100	0 W/m², 25 °C, AM	1.5 G SPECTRUM)'			
NOMINAL POWER (+5 W/-0 W)		[W]	245	250	255	260
Average Power	P _{MPP}	[W]	247,5	252.5	257.5	262.5
Short Circuit Current	I _{sc}	[A]	8.52	8.71	8.90	9.09
Open Circuit Voltage	V _{oc}	[V]	37.15	37.49	37.83	38.18
Current at P _{MPP}	I _{MPP}	[A]	8.05	8.21	8.37	8.53
Voltage at P _{MPP}	V _{MPP}	[V]	30.75	30.76	30.77	30.78
Efficiency (Nominal Power)	η	[%]	≥ 14.7	≥15.0	≥15.3	≥15.6
PERFORMANCE AT NORMAL OPERATING C	ELL TEMPERATURE	(NOCT: 800 W/m ² ,	45 ±3 C. AM 1.5G SPECTE	RUM) ²		
NOMINAL POWER (+5 W/-0 W)		[W]	245	250	255	260
Average Power	P _{MPP}	[W]	182.4	186.0	189.7	193.4
Short Circuit Current	I _{sc}	[A]	6.87	7.03	7.18	7.33
Open Circuit Voltage	V _{oc}	[V]	34.58	34.90	35.22	35.54
Current at P _{MPP}	I _{MPP}	[A]	6.32	6.44	6.56	6.68
Voltage at P _{MPP}	V _{MPP}	[V]	28.86	28.89	28.92	28.94
¹ Measurement tolerances STC: ±3% (P):	+10% (L.V.)	. V)				

Q CELLS PERFORMANCE WARRANTY



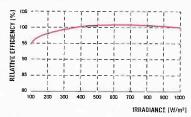
At least 97% of nominal power during first year. Thereafter max. 0.6% degradation per year.

At least 92% of nominal power after 10 years.

At least 83% of nominal power after 25 years.

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

PERFORMANCE AT LOW IRRADIANCE



The typical change in module efficiency at an irradiance of 200 W/m² in relation to 1000 W/m² (both at 25 °C and AM 1.5G spectrum) is -2 % (relative).

TEMPERATURE COEFFICIENTS (AT 1000 W/M2, 25 °C, AM 1.5 G SPECTRUM)

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of \mathbf{V}_{oc}	β	[%/K]	-0.30
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.42				

PROPERTIES FOR SYSTEM DESIG	GN	NATURE DE MARIO		
Maximum System Voltage V _{sys}	[V]	1000	Safety Class	II
Maximum Reverse Current I _R	[A]	20	Fire Rating	С
Wind/Snow Load (in accordance with IEC 61215)	[Pa]	5400	Permitted module temperature on continuous duty	-40°C up to +85°C

QUALIFICATIONS AND CERTIFICATES

PARTNER

UL 1703; VDE Quality Tested; CE-compliant; IEC 61215 (Ed.2); IEC 61730 (Ed.1) application class A







NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS USA Corp.

8001 Irvine Center Drive, suite 1250, Irvine CA 92618, USA | TEL +1 848 748 59 96 | FAX +1 949 748 59 84 | EMAIL q-cells-usa@q-cells.com | WEB www.q-cells.us





Datasheet Crystalline PV Module NMC CHSM6610PR Series

* NMC : Cell made in Non-Mainland China

260

EN

ELECTRICAL SPECIFICATIONS			
STC rated output (Pmpp)*	250 Wp	255 Wp	260 Wp
PTC rated output (Pmpp)**	229.01 Wp	233.8 Wp	238.5 Wp
Standard sorted output		-0/+5 Wp	
Warranted power output STC (Pmpp min)	250 Wp	255 Wp	260 Wp
Rated voltage (V _{mpp}) at STC	30.10 V	30.40 V	30.50 V
Rated current (I _{mpp}) at STC	8.31 A	8.39 A	8.53 A
Open circuit voltage (Voc) at STC	37.40 V	37.50 V	37.60 V
Short circuit current (Isc) at STC	8.83 A	8.86 A	8.95 A
Module efficiency	15.4%	15.7%	16.0%
Rated output (Pmpp) at NOCT	185.0 Wp	189.0 Wp	193.0 Wp
Rated voltage (V _{mpp}) at NOCT	28.20 V	28.50 V	28.60 V
Rated current (Impp) at NOCT	6.57 A	6.63 A	6.74 A
Open circuit voltage (Voc) at NOCT	35.00 V	35.10 V	35.20 V
Short circuit current (I₅c) at NOCT	7.12 A	7.20 A	7.2 <mark>7</mark> A
Temperature coefficient (P _{mpp})	- 0.40%/K	Maximum system voltage UL	600 Vpc
Temperature coefficient (Isc)	+0.04%/K	Number of diodes	6
Temperature coefficient (V∞)	- 0.30%/K	Maximum series fuse rating	20 A
Normal operating cell temperature (NOCT)	45±2℃		

* Measurement tolerance ** Estimated











