HISTORICAL DEVELOPMENT BOARD

Wednesday, January 17, 2024, 4:00 pm
Regular Meeting
Helen Kleberg Groves Community Room, 1st Floor of City Hall
400 W King, Kingsville, Texas

BOARD MEMBERS

Maggie Salinas, Chairman Daniel J. Burt Jeri L.S Morey Lucia Perez David Thibodeaux

CITY STAFF

Kobby Agyekum Senior Planner/ Historic Preservation Officer

Herlinda Solis Administrative Assistant

The following rules of conduct pertaining to public comments have been adopted by this Board:

- 1. Give your name and complete address.
- 2. No one may speak more than twice on the same item.
- 3. No one may speak more than five minutes at a time without permission from the Chairman.
- 4. No one may speak a second time on a question until every person who wants to speak has done so
- 5. All submissions of evidence, i.e. photos, drawings, will be retained by the Historical Development Board and will become a part of the permanent file.

When speaking at the podium, if necessary, adjust the microphone and clearly speak into the microphone.

- CALL TO ORDER
- ROLL CALL
- APPROVAL OF MINUTES FROM PREVIOUS MEETING(s)- December 13, 2023
- PUBLIC COMMENTS FOR ALL AGENDA & NON-AGENDA ITEMS (SEE MEETING RULES)
- POSTPONEMENTS/ADJUSTMENTS TO THE AGENDA
- AGENDA ITEMS

Item #1 Discuss and Consider Action on a request:

Discuss and Consider Action to install 22 roof mounted Solar Panels at property on residential building on 5TH, BLOCK 8, LOT 1-3 also known as 603 East Kenedy Avenue, Kingsville, TX 78363

Item #2 Discuss and Consider Action on a request:

Discuss and Consider Action to install 15 roof mounted Solar Panels at property on residential building on ORIG TOWN, BLOCK 70, LOT 12, 13 also known as 425 East Kenedy Avenue, Kingsville, TX 78363

Item #3 Discuss and Consider Action on a request:

Discuss and Consider Action to install 32 roof mounted Solar Panels at property on residential building on HENRIETTA HGTS, BLOCK 2, LOT 25-27 also known as 620 West Richard Avenue, Kingsville, TX 78363

Item #4 Discuss and Consider Action on a request:

Discuss and Consider Action to replace 4 windows and siding on a property, on ORIG TOWN, BLOCK 5, LOT 5 also known as 209 East Santa Gertrudis Avenue, Kingsville Texas 78363

- STAFF REPORT: None
- MISCELLANEOUS Any topic may be discussed but no action taken at this time.
- ADJOURNMENT

PUBLIC NOTICE

It is the intention of the City of Kingsville to comply in all aspects with the Americans with Disabilities Act (ADA). If you plan on attending a meeting to participate or observe and need special assistance beyond what is routinely provided, the city will attempt to accommodate you in every reasonable manner. Please contact the City Secretary at 361-595-8002 at least two business days prior to the meeting to inform the City of your specific needs and to determine if accommodation is feasible.

I certify that this agenda was posted at least seventy-two (72) hours before the commencement Historical Development Board Meeting scheduled for Wednesday, January 17, 2024.

of the

Kobby Agyekum

Senior Planner / Historic Preservation Officer

Posted

On 1-12-24

By Halis

HISTORICAL DEVELOPMENT BOARD SPECIAL MEETING MINUTES WEDNESDAY, December 13, 2023, at 4:00 PM CITY OF KINGSVILLE HELEN KLEBERG GROVES COMMUNITY ROOM 400 W KING AVE

Historical Board Members Present

Maggie Salinas, Chairman Jeri L S Morey David Thibodeaux Lucia Perez Daniel J. Burt

Staff Present

Kwabena Agyekum, SNR Planner/Historic Preservation Officer (HPO)

Citizens Present

None

Estella Alegria Administrative Assistant

- 1. The meeting was called to order:
 - @ 4:05 PM
- Discuss and take action on the meeting minutes of last meeting. Minutes approved by Jerri Morey; the
 motion was seconded by Lucia Perez.
- 3. Public Comments on or off the agenda None
- 4. Postponements None
- 5. <u>Old Business</u> None
- 6. New Business None

Item #1

<u>Discuss and Consider Action to add on a 16 'x 20' room to an existing building on a property at 6TH, BLOCK 9, LOT 14, also known as 627 East Henrietta Avenue, Kingsville, TX 78363.</u>

Kobby Agyekum addressed the Board and stated that this was a one-story residential building supported by square wooden post, vertical plywood sidings and rear additions located in the historical district. City staff has revied the application and found it in conformity with the Standards of the Secretary of Interior number 9 and is recommending approval. The owner is Ofelia Villarreal, and she has hired Rodriguez Construction to make the addition to her home. David Thibodeaux made the motion to approve the item and Jeri Morey seconded the motion. All in favor, motion carried.

- 7. Staff Reports Kobby told the Board that Luis Fuentes would like to replace the windows at 307 E Kleberg Ave to mimic the windows across the street.
- 8. Miscellaneous None
- 9. Adjournment Meeting adjourned at 4:12 PM

CITY of KINGSVILLE DOWNTOWN



HISTORIC DEVELOPMENT BOARD

DATE:

December 19th, 2023

TO:

Historic Development Board

FROM:

Kobby Agyekum (Senior Planner/Historical Preservation Officer)

SUBJECT:

Discuss and Consider Action to install 22 roof mounted Solar Panels at property on

residential building on 5TH, BLOCK 8, LOT 1-3 also known as 603 East Kenedy

Avenue, Kingsville, TX 78363

APPLICANT:

Jeremy Turner, Mr.

CONTRACTOR: Jeremy Turner, Mr.

REQUEST

Discuss and Consider Action to install 22 roof mounted Solar Panels at property on residential building on 5TH, BLOCK 8, LOT 1-3 also known as 603 East Kenedy Avenue, Kingsville, TX 78363

EXHIBITS

Application, 2022 Appraisal Roll, Kleberg County Appraisal District Information details. Data from Texas Historical Commission (Historic Resources Survey Form), Engineer's letter, Authorization letter, Drawings, and illustrations.

BACKGROUND & PERTINENT DATA

This is a Two-story T-plan hip-roofed residential building with shed-roofed partial-width offset porch supported by square wood posts, sash windows, horizontal siding, and front addition, located within the Historic District. This property is associated with events that have made significant contribution to the broad pattern to our history and considered as part to the historic district with low priority for preservation.

STAFF REVIEW & RECOMMENDATION

Staff has reviewed the application and found same to be in conformity with the Secretary of the Interior's Standard for Rehabilitation. Consequently, it is the recommendation of Staff to approve the installation of 22 mounted solar panels on residential building at 603 East Kenedy Avenue as there would be no adverse impact to the historic, cultural, or architectural nature of the district.

BOARD REVIEW

Scope of Historical Development Board

In general, Historical Development Board considers the following factors when making a recommendation concerning the issuing of a permit for the construction, reconstruction, alteration, restoration, relocation, demolition or razing of all or part of any building, structure or appurtenance within a historic district:

1) The effect of the proposed change upon the general historic, cultural and architectural nature of the district.

- 2) The appropriateness of exterior architectural features which can be seen from a public street, alley, road, highway or walkway.
- 3) The general design, arrangement, texture, material and color of the building, structure or appurtenances and the relation of such factors to similar features of buildings, structures or appurtenances in the district. The criterion shall not be the aesthetic appeal to the Board of the structure or the proposed remodeling, but rather its' conformity to the general character of the particular historic area involved.
- 4) Signs which are out of keeping with the character of the historic district in question shall not be permitted.
- 5) The value of the historic district as an area of unique interest and character shall not be impaired.

Standards of the Secretary of the Interior

- 1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.
- 2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
- 3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.
- 4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.
- 5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.
- 6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.
- 7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.
- 8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.
- 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.

SIGNATURES

Kobby Agyekum Senior Planner/HPO

Historical Development Board Review Application

Applicant:JEREMY TURNER
Address: 18719 Big Elm Drive Cypress TX 77433
Contact: Cell: 254-203-5606 Home:
Email: permitting@hellonivo.com
Property Owner:JUAN ELIZONDO
Address: 603 E Kenedy Ave Kingsville, TX 78363
Contact: Cell: (361) 228-1167 Home:
Property Location and Description: 603 E Kenedy Ave Kingsville, TX 78363
Description of Work: Installation of 22 solar panels on the roof and re roofing
Contractor: JEREMY TURNER
Contact: Cell:254-203-5606
Email:permitting@hellonivo.com
Documents Required: 1. Sketch, Drawing, Plans, Site Plans, Mock-ups 2. Photographs (Historic, Current, Surrounding Structures) 3. Materials List or Samples 4. Proof of Ownership 5. Letter of Representation and Work Approval from Property Owner
(If Applicable) I certify that this information and the additional information submitted to the Planning Department is correct and that the work will be completed as described, as approved by the Historical Development Board and in accordance with applicable codes. (Applicant) Print Name: JEREMY TURNER Signature: JEREMY TURNER Date: 12/15/2023

Kleberg CAD

Property Search > 14768 ELIZONDO JUAN A for Year 2023

Tax Year: 2023 - Values not available

Property

Type:

Account

Property ID:

14768

Legal Description: 5TH, BLOCK 8, LOT 1-3

Agent Code:

Geographic ID:

100700801000192 Real

Zoning:

Property Use Code:

Property Use Description:

Location

Address:

603 E KENEDY

Mapsco:

Map ID:

C1

Neighborhood: Neighborhood CD:

Owner

Name:

ELIZONDO JUAN A

Owner ID:

67765

Mailing Address:

603 E KENEDY

KINGSVILLE, TX 78363

% Ownership:

100.0000000000%

Exemptions:

Values

(+) Improvement Homesite Value:

N/A

(+) Improvement Non-Homesite Value: +

N/A

(+) Land Homesite Value:

N/A

(+) Land Non-Homesite Value:

N/A Ag / Timber Use Value

(+) Agricultural Market Valuation:

(-) Ag or Timber Use Value Reduction:

N/A

N/A N/A

(+) Timber Market Valuation:

N/A

(=) Market Value:

N/A

N/A

(=) Appraised Value:

N/A

(-) HS Cap:

N/A

(=) Assessed Value:

N/A

Taxing Jurisdiction

Owner:

ELIZONDO JUAN A

% Ownership: 100.000000000%

Total Value:

N/A

Entity	Description	Tax Rate	Appraised Value	Taxable Value	Estimated Tax
CAD	KLEBERG COUNTY APPRAISAL DISTRICT	N/A	N/A	N/A	N/A
CKI	CITY OF KINGSVILLE	N/A	N/A	N/A	N/A
GKL	KLEBERG COUNTY	N/A	N/A	N/A	N/A
SKI	KINGSVILLE I.S.D.	N/A	N/A	N/A	N/A

WST	SOUTH TEXAS WATER AUTHORITY	N/A	N/A	N/A	N/A
	Total Tax Rate:	N/A			
			Taxes w/Cur	rent Exemptions:	N/A
			Taxes w/o Ex	kemptions:	N/A

Improvement / Building

Improve	ment #1: RESIDENTIAL State Code: A	Livin	g Area: 20	088.0 sq	ft Value: N/A
Туре	Description	Class CD	Exterior Wall	Year Built	SQFT
MA	MAIN AREA	FF5	EWB	1945	1044.0
SAFF	STORAGE ATTACHED FRAME FINISHED	*		1945	80.0
MA2F	MA 2ND STORY FRAME	*		1945	1044.0
OPFA	OPEN PORCH FRAME AVERAGE	*		1945	126.0
SAFF	STORAGE ATTACHED FRAME FINISHED	*		2007	112.0

Land

#	Type	Description	Acres	Sqft	Eff Front	Eff Depth	Market Value	Prod. Value
1	A1	A1	0.2410	10500.00	75.00	140.00	N/A	N/A

Roll Value History

Year	Improvements	Land Market	Ag Valuation	Appraised	HS Cap	Assessed
2024	N/A	N/A	N/A	N/A	N/A	N/A
2023	N/A	N/A	N/A	N/A	N/A	N/A
2022	\$80,250	\$6,750	0	87,000	\$0	\$87,000
2021	\$70,820	\$6,750	0	77,570	\$0	\$77,570
2020	\$65,950	\$6,750	0	72,700	\$0	\$72,700
2019	\$74,770	\$6,750	0	81,520	\$0	\$81,520
2018	\$74,990	\$6,750	0	81,740	\$5,576	\$76,164
2017	\$62,490	\$6,750	0	69,240	\$0	\$69,240
2016	\$67,410	\$6,750	0	74,160	\$0	\$74,160
2015	\$67,410	\$6,750	0	74,160	\$0	\$74,160
2014	\$67,410	\$6,750	0	74,160	\$0	\$74,160
2013	\$67,410	\$6,750	0	74,160	\$0	\$74,160
2012	\$67,410	\$6,750	0	74,160	\$0	\$74,160
2011	\$67,410	\$6,750	0	74,160	\$0	\$74,160
2010	\$67,410	\$6,750	0	74,160	\$0	\$74,160

Deed History - (Last 3 Deed Transactions)

#	Deed Date	Туре	Description	Grantor	Grantee	Volume	Page	Deed Number
1	10/15/2020	GFT	GIFT DEED	ELIZONDO JUAN	ELIZONDO JUAN A			323476
2	9/17/2020	AFF	AFFIDAVIT OF HEIRSHIP	ELIZONDO JUAN	ELIZONDO JUAN			323182
3	6/12/2019	DEATH	DEATH - ADD EST TO OWNERSHIP	ELIZONDO JUAN A	ELIZONDO JUAN			

Tax Due

TEXAS HISTORICAL COMMISSION							
Project #: 00009 Historic Resources Survey Form County: Kleburg	Local Id: 0001-14768 City: Kingsville						
Address No: 603 Street Name: East Kenedy Avenue							
SECTION 1							
Basic Inventory Information							
Current Name: Historic Name:							
Owner Information Name: Elizondo Juan A. Status:							
Address: 603 East Kenedy Ave City: Kingsville State: TX	Zip: 78363						
Geographic Location Latitude: 27.514478 Longitude: -97.86	1591						
Legal Description (Lot\Block): 5TH, BLOCK 8, LOT 1-3							
Addition/Subdivision:	Year:						
Property Type Building							
Current Designations: ☐ NR District Is property contributing? ☐	-						
□ NHL □ NR □ RTHL □ OTHM □ HTC □ SAL □ Local □ Other							
Architect: Builder	-						
Contruction Date: c. 1910 Source Sanborn maps							
Function							
Current: DOMESTIC-Single Dwelling							
Historic: DOMESTIC-Single Dwelling							

Recorded By: Stefan & Daniella Date Recorded: 5/9/2013



TEXAS HISTORICAL COMMISSION

866

Project #: 00009

Historic Resources Survey Form

Local Id: 0001-14768

City: Kingsville

County: Kleburg

Address No: 603

Street Name: East Kenedy Avenue

SE	CT	ON	2

Arch	itectural	Descri	ption

Two-story T-plan hip-roofed residential building with shed-	roofed partial-width offset porch supported by square wood posts, sash
vindows, horizontal siding, and front addition.	

Transcorio, non	zontai sianig, ai	ia irone aa	and on the				
✓ Additions,	modifcations	Explain:	heavily modified, addition	s, replacement mat	terials		
Relocated		Explain:					
Stylistic Inf	luence						
No Style							
Structural I	Details						
Roof Form							
Hipped							
Roof Mate							
Composition	Shingles						
Wall Mater	ials						
Wood siding							
Windows							
Sash							
Doors (Prin	nary Entranc	е					
Composition	Shingles		(#				
Plan							
T-Plan							
Chimneys							
Porches/Ca	anopies						
FORM	Shed Roof						
SUPPORT	Wood posts (pl	ain)					
MATERIAL	Wood						
ANCILLARY B	UILDINGS:						
Garage:		Ва	rn:	Shed:		Other:	
Landscape	Features						

		TE	XAS HIST	ORICAL COM	MISSION	N	866		
Project #: County:	00009 Kleburg	I.	listoric Re	esources Surv	ey Form		0001-14768 Kingsville		
Address No:	We will the	Str	eet Name: Eas	st Kenedy Avenue					
SECTION 3	Historic	al Informatio	n						
Associated H Planning/Deve		ntext							
Applicable I	National Reg	gister (NR) Cr	iteria:						
✓ A	Associated	with events the	at have made a s	significant contribution	to the broad p	oattern of our hist	ory		
□в	Associated	Associated with the lives of persons significant in our past							
□ c	master, or		artistic value, or	a type, period or meth represents a significa					
	Has yielde	d, or is likely to	yield, informatio	n important in prehisto	ory of history				
Areas of Sig	nificance:							٦	
Community D	evelopment								
Periods of S	ignificance:								
Levels of Sig	nificance:	☐ National	☐ State	✓ Local				1	
Integrity:	2	□ Design	☐ Materials	☐ Workmanship	✓ Setting	☐ Feeling	☐ Association		
Integrity No lacks integrity									
Individually	Eligible? No)	Within Potent	tial NR District?: Yes	s	Is Property C	ontributing?:	8	
Priority:	Low	Expl	ain:						
Other Information		available for t	his resource?	No	Туре	☐ HABS ☐ Su	rvey 🗆 Other		
Documentat	ion Details:							٦	



Application for Certificate of Compliance Form WPI-1

App ID:2355911

Physical Address of Structure to be Inspected

603 E KENEDY

Tract/Addition:

Lot: Block:

City: Kingsville

ZIP: 78363

County: Kleberg

City Limits: Inside City Limits

Structure is located in:

Is the structure located in a Coastal Barrier Resource Zone (CBRA): No

Name: JUAN ELIZONDO Mailing Address: 603 E KENEDY

Phone:

City: Kingsville

Fax: ZIP: 78363

Contractor

Name: NIVO LLC Mailing Address: 1334 Brittmoore Rd. STE 2310

Phone:

City: Houston

Fax: ZIP: 77043.

Engineer

Name: Joshua A Senecal Mailing Address: 15317 Gypsy St Email: senecalja1@gmail.com

Phone: (252) 764-7382 City: Corpus Christi Texas Registration No.: 130638

Fax; ZIP: 784186480

Commencement of Construction Date

Date of Application

Type of Building

12-06-2023

12-13-2023

House

Inspections

1. - Mechanical, Solar Panel(s)

Number of Panels: 22 Panels, Location or Identifier: 9 Panels on the North Pitch, 4 Panels on the South Pitch, 9 Panels on the West Pitch,

2. - Roof, Entire Re-Roof

3.

Comments

Submitter

Name: Joshua Senecal

Phone: (252) 764-7382

Date: 12-13-2023

Submitter Type: Engineer

For Texas Department of Insurance Inspections: mail or email to your local field office

For inspections by engineers: mail or email to Austin office: windstorm@tdi.texas.gov

Texas Department of Insurance

Windstorm Inspections Program

P.O. Box 12030

Austin, TX 78711-2030

Texas Department of Insurance | www.tdi.texas.gov

1/2

https://appscenter.tdi.texas.gov/windstorm/eng/2355911

1/2



December 7, 2023

Roof Mounted Photovoltaic Array System Design Certification

603 E KENEDY AVE, KINGSVILLE, TX 78363

I have reviewed the following information regarding solar panel installation on the roof of the above referenced home:

- 1. Site Visit/Verification Form prepared by a Nivo representative identifying specific site information including size and spacing of rafters for the existing roof structure.
- Design drawings of the proposed system including a site plan, roof plan and connection details for the solar panels. This information was prepared by Nivo and will be utilized for approval and construction of the proposed system.
- 3. Photographs of the interior and exterior of the roof system identifying existing structural members and their conditions.

Based on the above information I have evaluated the structural capacity of the existing roof system to support the additional loads imposed by the solar panels and have the following comments related to the provided design.

A. Basis of Design:

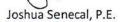
- The design conforms with the loading criteria and calculation methods as stated in ASCE7-16
- This design conforms to the Chapter 3 "Wind Design" requirements of International Residential Code 2018
 - i. TDI COMPLIANT DESIGN
- c. K2 Systems Report #2020-02753HG.02 "Engineering Certification for the K2 Systems Crossrail Dual Rail 44-X System for Gable and Hip Roofs" (dtd March 1, 2023) provides rail spans based on ASCE7-16 methods.
- Miami Dade NOA 22-0719.06 K2 System approved system assemblies. Includes K2 Splice Foot X and Cross Rail series approved assembly.
- Regions where V_{ULT} is greater than 130MPH, Wind Engineering is required, per IRC 2018 Figure R301.2(5)B

B. Load Criteria

- a. Ultimate Wind Speed, Vult= 136 MPH per Applied Technology Council (ATC) "Hazards by Location"
 - i. https://hazards.atcouncil.org/#/
- b. Crossrail 44-X Rail Span based on Ultimate Design Wind Speed, Vult = 150 MPH
- c. Exposure Category C, Risk Factor II
- d. ASCE 7-16 Rafter/Truss Design Live Load =20 psf
 - i. Per ASCE 7-16 areas where solar panels are installed Live Load = 0 psf
- e. ASCE 7-16 Rafter/Truss Design Dead Load =10 psf
 - Solar Panels, associated racking and accessory equipment Dead Load = 2.6 psf
 - ii. Actual Dead Load of IRC compliant roof system with shingles = 5.3 psf
 - iii. Total actual Dead Load = 7.9 psf; therefore, the increased Dead Load remains less than the Design Dead Load of 10 psf.

Snow Load = 0 psf

Based on the above loading criteria, the proposed equipment layout, industry standards and provisions of the International Residential Code 2018, the existing structural frame will support the load of the new solar system.



Firm #21791

252-764-7382

TX PE#130638

12/7/2023

LRSCivilEngineer@gmail.com



- c. Roof Attachment
 - a. All Roof Areas: K2 Systems 44-X Rail
 - Space the K2 Systems Splice Foot XL at 48" on-center in Roof Zones 1, 2e & 2r
 - ii. Space the K2 Systems Splice Foot XL at 32" on-center in Roof Zones 3
 - b. Roof Zones are defined as follows:
 - i. Roof Zone 1: locations not within 3' from any edge or corner.
 - ii. Roof Zone 2r: locations within 3' of a ridge.
 - iii. Roof Zone 2e: locations within 3' of the lower edge.
 - iv. Roof Zone 2n: locations within 3' of the side gable edge.
 - v. Roof Zone 3e: locations within 3' of the lower edge corner.
 - vi. Roof Zone 3r: locations within 3' of a ridge corner.
 - c. "Exposed" and "Non-Exposed" Rails
 - i. The "Exposed" and "Non-Exposed" span values provided on the "Exposure Detail" refer to the allowable K2 Splice Foot spacing based on location of the associated rail with relation to the position of the panel within an array.
 - ii. A panel is considered "Exposed" if one of the following conditions are met:
 - Any panel located within an array that does not have an adjacent panel within 48".
 - Any panel that is located greater than 48" and/or a distance greater than half the mean roof height from a ridge or edge.
 - Any panel that is located greater than 1.5 times the panel length (portrait) or 1.5 times the panel width (landscape) from a hip ridge or gable rake.
 - iii. If a panel is considered "Exposed"
 - 1. The "Exposed" span value applies to both rails of the panel.
 - iv. If a panel is considered "Non-Exposed"
 - 1. The "Non-Exposed" span values apply both rails of the panel.
 - v. Exposed panels will be highlighted in red on the "Exposure Detail"
 - d. Structural installation must be completed per Miami-Dade NOA 22-0719.06 and K2 Systems installation manuals. Miami-Dade NOA 22-0719.06 takes precedence.
 - e. Attach the K2 Systems Splice Foot with the two provided stainless steel M5X60mm wood screws with sealing washer.
 - f. Install K2 Butyl gasket between the roof covering system and the K2 Splice Foot.
 - g. Rafter mounting procedure is the only authorized installation method.
 - h. Stagger anchor points to minimize the occurrence of two adjacent rails being attached to the same structural member.
 - Use only factory provided hardware as directed by the manufacturer's installation manual.
 - Maximum cantilever is defined as 1/3 the maximum span length of the 44-X rail in the applicable Roof Zone found on the calculation sheet.



Joshua Senecal, P.E.

Firm #21791

252-764-7382

TX PE#130638

12/7/2023

LRSCivilEngineer@gmail.com



Solar Array Calculation Sheet #231215 603 EAST KENEDY AVENUE, **Property Address** KINGSVILLE, TX 78363 **Ultimate Wind Speed** 136 MPH ATC Hazrds by Location https://hazards.atcouncil.org/#/ Roof Pitch (Degrees) 23 Roof Type HIP Exposure Code C Figure 30.3-2G Risk Factor ASCE7-16 Citation Roof Pitch 20 to 27 Topographical Factor (Kzt) 1.00 Portriat Landscape Sect 26.8.2 Exposure Coefficient (K,) Positive GC_p 0.85 0.70 0.70 Tab 26.10-1 Directional Factor (K_d) Tab 26.6-1 0.85 Zone 1 GC, -1.40 -1.40 Ground Elevation Factor (K,) Table 26.9-1 1.00 Zone Ze GC. -2.00 -2.00 Exposure Factor (γ_ε) "Exposed" 1.50 Zone 2r GC, -2.00 -2.00 Pressure Equalization Factor (γ_a) Figure 29.4-8 0.71 (PORTRAIT) Zone 3 GC. -2.00 -2.00 Pressure Equalization Factor (γ_a) 0.80 (LANDSCAPE) Figure 29.4-8 Mean Roof Height (ft) 14.50 Velocity Pressure (q_H) psf 26.34

12.33 at 48" spacing in PORTRIAT

6.85 at 48" spacing in LANDSCAPE

74.00

41.10

48.50

21.12

2.60

1:12	4.8 deg
2:12	9.5 deg
3:12	14 deg
4:12	18.4 deg
5:12	22.6 deg
6:12	26.6 deg
7:12	30.3 deg
8:12	33.7 deg
9:12	36.9 deg
10:12	39.8 deg
11:12	42.5 deg
12:12	45 deg

	Applied Wind Pressure (psf) Analytical Method ASCE7-16 Chapter 26		Total Pressure (psf) ASCE7-16		Connection Point Load (lbs) 24" On Center Connections		Connection Point Load (lbs) 32" On Center Connections		(lbs) 48" On Center Connections		Max Rail Span K2 CR 44-X	Anchor Spacing K2 SPLICE FOOT X
Portrait Orientation												
	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(in)	(in)
Zone 1	18.4	-36.9	14.73	-24.49	90.84	-150.99	121.12	-201.32	181.68	-301.98	64"	48"
Exposed	18.4	-55.3	14.73	-37.56	90.84	-231.60	121.12	-308.80	181.68	-463.20	52"	48"
Zone 2e	18.4	-52.7	14.73	-35.69	90.84	-220.09	121.12	-293.45	181.68	-440.17	64"	48"
Exposed	18.4	-79.0	14.73	-54.36	90.84	-335.24	121.12	-446.99	181.68	-670.49	52"	48"
Zone 2r	18.4	-52.7	14.73	-35.69	90.84	-220.09	121.12	-293.45	181.68	-440.17	49"	48"
Exposed	18.4	-79.0	14.73	-54.36	90.84	-335.24	121.12	-446.99	181.68	-670.49	40"	32"
Zone 3	18.4	-52.7	14.73	-35.69	90.84	-220.09	121.12	-293.45	181.68	-440.17	47"	32"
Exposed	18.4	-79.0	14.73	-54.36	90.84	-335.24	121.12	-446.99	181.68	-670.49	38"	32"

	Applied Wind Pressure (psf) Analytical Method ASCE7-16 Chapter 26		Total Pressure (psf) ASCE7-16		Connection Point Load (lbs) 24" On Center Connections		Connection Point Load (lbs) 32" On Center Connections		(lbs) 48" On Center Connections		Max Rail Span K2 CR 44-X	Anchor Spacing K2 SPLICE FOOT X
Landscape Orientation												
	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(in)	(in)
Zone 1	18.4	-36.9	16.62	-27.63	56.94	-94.64	75.91	-126.18	113.87	-189.27	64"	48"
Exposed	18.4	-55.3	16.62	-42.38	56.94	-145.16	75.91	-193.55	113.87	-290.32	52"	48"
Zone 2e	18.4	-52.7	16.62	-40.27	56.94	-137.94	75.91	-183.92	113.87	-275.88	64"	48"
Exposed	18.4	-79.0	16.62	-61.35	56.94	-210.12	75.91	-280.16	113.87	-420.24	52"	48"
Zone 2r	18.4	-52.7	16.62	-40.27	56.94	-137.94	75.91	-183.92	113.87	-275.88	49"	48"
Exposed	18.4	-79.0	16.62	-61.35	56.94	-210.12	75.91	-280.16	113.87	-420.24	40"	32"
Zone 3	18.4	-52.7	16.62	-40.27	56.94	-137.94	75.91	-183.92	113.87	-275.88	47"	32"
Exposed	18.4	-79.0	16.62	-61.35	56.94	-210.12	75.91	-280.16	113.87	-420.24	38"	32"

LRS ENGINEERING TX FIRM #21791

Length of Panel (in)

Width of Panel (in)

Weight of Panel (lbs)

Solar Panel Area (sqft)

Array Dead Load (psf)

Roof Connection Effective Area (sqft)

Roof Connection Effective Area (sqft)

12/6/2023

JOSHUA SENECAL, P.E. TX P.E. #130638

SHUA SENE

▲ This is a beta release of the new ATC Hazards by Location website. Please contact us with feedback.

The ATC Hazards by Location website will not be updated to support ASCE 7-22. Find out why.

ATC Hazards by Location

Search Information

Address:

603 E Kenedy Ave, Kingsville, TX 78363, USA

Coordinates:

27.5144413, -97.8615956

Elevation:

Timestamp:

2023-12-06T20:27:29.579Z

Hazard Type:

Wind



Risk Category II	▲ 136 mph	Risk Category II	▲ 136 mpl
Risk Category I	127 mph	Risk Category I	127 mpl
MRI 100-Year	112 mph	MRI 100-Year	112 mpt
MRI 50-Year	102 mph	MRI 50-Year	102 mpt
MRI 25-Year	88 mph	MRI 25-Year	91 mpt
MRI 10-Year	75 mph	MRI 10-Year	76 mph
ASCE 7-16		ASCE 7-10	

Risk Category III-IV

a wind-borne debris region.

▲ 136 mph Risk Category II

You are in a wind-bome debris region if you are also vithin 1 mile of the coastal mean high water line.

▲ 145 mph Risk Category III

If the structure under consideration is a healthcare facility and you are also within 1 mile of the coastal mean high water line, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-borne debris region.

Risk Category IV

▲ 149 mph

You are in a wind-borne debris region.

	NGEVOL LEON	Map data ©2023 Google, INEG
ASCE 7-10		ASCE 7-05
MRI 10-Year	76 mph	ASCE 7-05 Wind Speed 🛕 113 mph
MRI 25-Year	91 mph	You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.
MRI 50-Year	102 mph	
MRI 100-Year	112 mph	
Risk Category I	127 mph	
Risk Category II	▲ 136 mph	
	debris region if you are also stal mean high water line.	

▲ 145 mph

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

If the structure under consideration is a healthcare

facility and you are also within 1 mile of the coastal mean high water line, you are in a wind-bome debris

region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in

Please note that the ATC Hazards by Location website will not be updated to support ASCE 7-22. Find out why,

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area - in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris

Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.

While the information presented on this website is believed to be correct, ATC and its sponsors and contributors assume no responsibility or liability for its accuracy. The material presented in the report should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. ATC does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the report provided by this website. Users of the information from this website assume all liability arising from such use. Use of the output of this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the report.

UNITIVITY AND A MOUNTED SOLAR PHOTOYOL/TAKE OSYSTEM AT THE OWNER RESIDENCE LICATED AT 603 E KENEDY AVE. KINGSVILLE, TX 78363, USA.
THE POWER CENERALIED BY THE PU SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY OF THE PUSITY OF STATEM WILL BE INTERCONNECTED WITH THE UTILITY THE PV SYSTEM DOES NOT INCLUDE STORAGE BATTERIES. SCOPE OF WORK

22 Q CELLS Q.PEAK DUO BLK ML-G10.A+ 405 MODULES EQUIPMENT SUMMARY

22 ENPHASE IQBPLUS -72-2-US (240V) MICROINVERTERS

THESE CONSTRUCTION DOCUMENTS HAVE BEEN BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS

CONTRACTOR HAS THE FULL RESPONSIBILITY TO CHECK AND VERIFY ALL DIMENSIONS
AND EXISTING CONDITIONS, ANY DISCREPANCIES SHALL B REPORTED TO THE ENGINEER
BEFORE PROCEEDING WITH THE WORK, ANY WORK STARTED BEFORE CONSULTATION AND
ACCEPTANCE BY THE ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE
CONTRACTOR AND SHALL BE SUBJECT TO CORRECTION BY THEM WITHOUT ADDITIONAL
COMPRENSATION. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, OBTAIN ALL PERMITS, LICENSES AND PAY ALL REQUIRED FEES AND COMPLETE INSTALLATION.

DAMAGE CAUSED TO THE EXISTING STRUCTURE, PIPES, DUCTS, WINDOWS, WALL, FLOORS, IC. SHALL BE REPAIRED TO THE ORIGINAL CONDITION OR REPLACED BY THE CONTRACTOR AT INO ADDITIONAL COST.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK WITH APPROVED MATERIALS.

CONTRACTOR SHALL OBTAIN BULDING PERMIT. NO WORK TO START UNLESS BUILDING PERMIT IS PROPERLY DISPLAYED.

IT IS ESSENTIAL THAT ALL WORK PROCEED WITH THE MAXIMIM COOPERATION OF ALL PARTIES AND WITH MINIMUM INTERFERENCE TO THE OCCUPANTS WITHIN THE BUILDING. THE OWNER'S DIRECTIONS IN THIS REGARD SHALL BE FULLY COMPLIED WITH. ALL WORKKANNSHIP AND MATERAL S SHALL BE OF FRST OUALITY AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE WATTIONAL BUILDING CODE, THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ALL PERTINENT AGENCIES.

THE CONTRACTOR SHALL PERFORM THE WORK IN STRICT CONFORMANCE WITH THE LOCAL LAWS, REGULATIONS AND THE NATIONAL ELECTRIC CODE.

THE CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, AFFIDAVITS, CERTIFICATIONS, ETC, AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITIES.

CONTRACTORS SHALL OBTAIN FIRE CERTIF. UPON COMPLETION OF WORK.

ELECTRICAL NOTES

• ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT. WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY. WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.

WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.

ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.

 MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURERS INSTRUCTION. MODULE SUPPORT RAIL SHALL BE BONDED TO THE MODULE

2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL RESIDENTAL CODE 2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRICAL CODE AHJ NAME: KINGSVILLE CIT

WIRING AND CONDUIT NOTES

• ALL CONDUIT SIZES AND TYPES SHALL BE LISTED FOR ITS PURPOSE AND APPROVAL FOR THE SITE APPLICATIONS

ALL PV CABLES AND HOMERUN WIRES BE #10AWG "USE-2, PV WIRE, OR PROPRIETARY SOLAR CABLING SPECIFIED BY WIRE, OR EQUIVALENT; ROUTED TO SOURCE CIRCUIT COMBINER BOXES AR REQUIRED.

EXPOSED ROOF PV DC CONDUCTORS SHALL BE USE-2, 90°C RATED, WET AND UV RESISTANT, AND UL LISTED RATED FOR 800°U, UV RATED SPIRAL WRAP SHALL BE USED TO PROTIECT WIRE FROM SHARP EDGES ALL PV DC CONDUCTORS IN CONDUIT EXPOSED TO SUNLIGHT SHALL BE DERATED ACCORDING TO AS PER LATEST NEC CODE.

SYSTEM RATING 8.910 KWDC

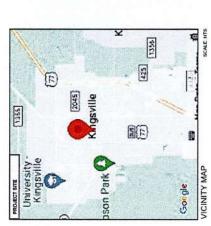
6.600 kWAC

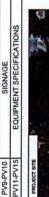
PHASE AND NEUTRAL CONDUCTORS SHALL BE DUAL RATED THHNTHWN-2 INSULATED, 90°C RATED, WET AND UV RESISTANT, RATED FOR 1000V AS PER APPLICABLE NGC

4-WIRE DELTA CONNECTED SYSTEMS HAVE THE PHASE WITH THE HIGHER VOLTAGE TO GROUND MARKED ORANGE OR IDENTIFIED BY OTHER EFFECTIVE MEANS

 ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE CIRCUIT PROTECTION VOLTAGE DROP LIMITED TO 2%

AC CONDUCTORS >4AWG COLOR CODED OR MARKED: PHASE A OR L1- BLACK, PHASE B OR L2- RED, PHASE C OR L3- BLUE, NEUTRAL- WHITE/GRAY







COVER PAGE DATE: 12/6/2023 SHEET NAME

ANSI B 11" X 17" SHEET SIZE

SHEET NUMBER PV-1





LRS Engineering TX Firm 21791 1277/2023

C.S.R

Master Bestricias TDLNs 44448 TECLE 14304

METER	145230614	1
REV	REVISIONS	
ESCRIPTION	DATE	REV
REVISION	12/06/2023	<

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	1		0	il.
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ELECTRICAL LINE & CALCS. SPECIFICATIONS & NOTES

PV5-PV6 PV7

STRING LAYOUT & BOM ATTACHMENT DETAILS

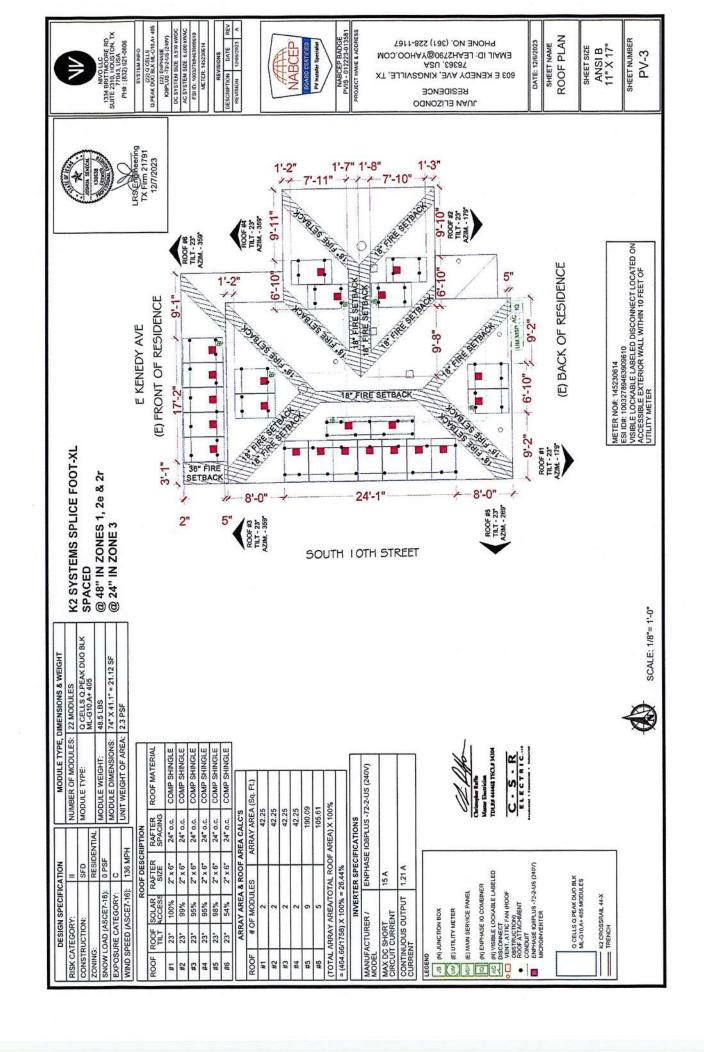
COVER PAGE ROOF PLAN SITE PLAN

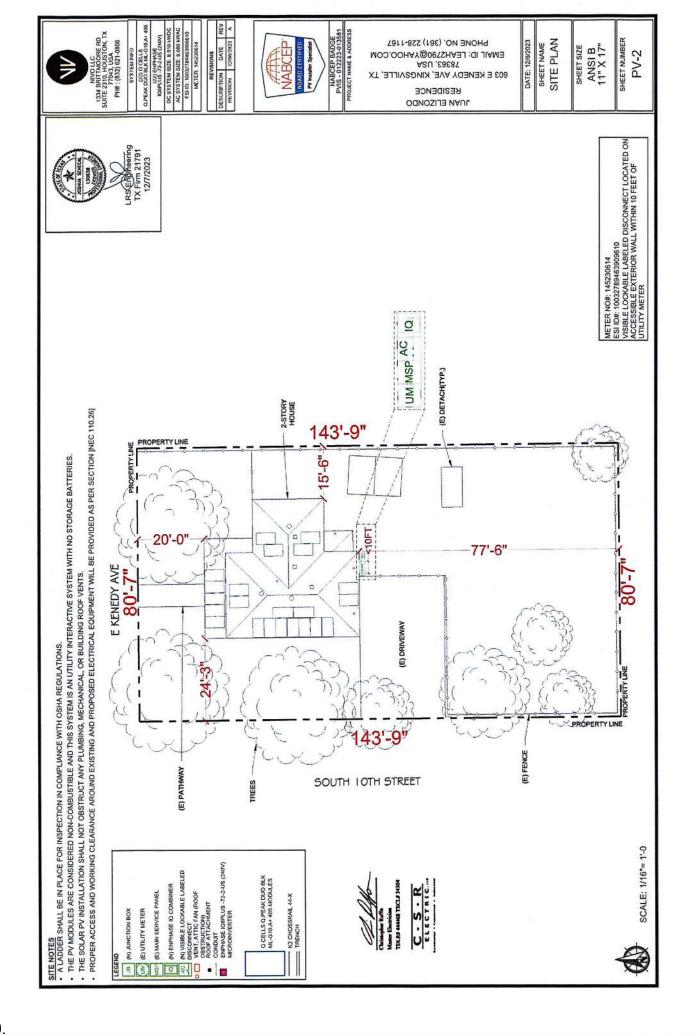
PV1 PV2 PV3 PV4

SHEET INDEX

NABCEP BADGE PVIS - 012223-013581 PROJECT NAME & ADDRESS

PHONE NO. (361) 228-1167 EMAIL ID: LEAH2790@YAHOO.COM A2U ,68587 603 E KENEDY AVE, KINGSVILLE, TX *BESIDENCE* DONOZITE NAUL









CITY of KINGSVILLE DOWNTOWN



HISTORIC DEVELOPMENT BOARD

DATE:

December 19th, 2023

TO:

Historic Development Board

FROM:

Kobby Agyekum (Senior Planner/Historical Preservation Officer)

SUBJECT:

Discuss and Consider Action to install 15 roof mounted Solar Panels at property on

residential building on ORIG TOWN, BLOCK 70, LOT 12, 13 also known as 425 East

Kenedy Avenue, Kingsville, TX 78363

APPLICANT:

Jeremy Turner, Mr.

CONTRACTOR: Jeremy Turner, Mr.

REQUEST

Discuss and Consider Action to install 15 roof mounted Solar Panels at property on residential building on ORIG TOWN, BLOCK 70, LOT 12, 13 also known as 425 East Kenedy Avenue, Kingsville, TX 78363

EXHIBITS

Application, 2022 Appraisal Roll, Kleberg County Appraisal District Information details. Data from Texas Historical Commission (Historic Resources Survey Form), Engineer's letter, Authorization letter, Drawings, and illustrations.

BACKGROUND & PERTINENT DATA

This is a One-and-a-half-story L-plan steep-pitched cross-gabled Tudor Revival residential building with front-gabled enclosed entry with arched doorway, nine-over-one sash windows, and horizontal siding, located within the Historic District. This property is associated with events that have made significant contribution to the broad pattern to our history and considered as part to the historic district with low priority for preservation.

STAFF REVIEW & RECOMMENDATION

Staff has reviewed the application and found same to be in conformity with the Secretary of the Interior's Standard for Rehabilitation. Consequently, it is the recommendation of Staff to approve the installation of 15 mounted solar panels on residential building at 425 East Kenedy Avenue as there would be no adverse impact to the historic, cultural, or architectural nature of the district.

BOARD REVIEW

Scope of Historical Development Board

In general, Historical Development Board considers the following factors when making a recommendation concerning the issuing of a permit for the construction, reconstruction, alteration, restoration, relocation, demolition or razing of all or part of any building, structure or appurtenance within a historic district:

1) The effect of the proposed change upon the general historic, cultural and architectural nature of the district.

- 2) The appropriateness of exterior architectural features which can be seen from a public street, alley, road, highway or walkway.
- 3) The general design, arrangement, texture, material and color of the building, structure or appurtenances and the relation of such factors to similar features of buildings, structures or appurtenances in the district. The criterion shall not be the aesthetic appeal to the Board of the structure or the proposed remodeling, but rather its' conformity to the general character of the particular historic area involved.
- 4) Signs which are out of keeping with the character of the historic district in question shall not be permitted.
- 5) The value of the historic district as an area of unique interest and character shall not be impaired.

Standards of the Secretary of the Interior

- 1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.
- 2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
- 3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.
- 4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.
- 5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.
- 6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.
- Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.
- 8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.
- 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.

SIGNATURES

Kobby Agyekum Senior Planner/HPO

Historical Development Board Review Application

Applicant:JEREMY TURNER
Address: 18719 Big Elm Drive Cypress TX 77433
Contact: Cell: 254-203-5606 Home:
Email: _permitting@hellonivo.com
Property Owner: SUSANNA SHAW
Address: 425 E Kenedy Ave Kingsville, TX 78363
Contact: Cell: (830) 331-0216 Home:
Property Location and Description: 425 E Kenedy Ave Kingsville, TX 78363
Description of Work: Installation of 15 solar panels on the roof.
Contractor: JEREMY TURNER Contact: Cell: _254-203-5606
Documents Required:
 Sketch, Drawing, Plans, Site Plans, Mock-ups Photographs (Historic, Current, Surrounding Structures) Materials List or Samples Proof of Ownership Letter of Representation and Work Approval from Property Owner (If Applicable)
I certify that this information and the additional information submitted to the Planning Department is correct and that the work will be completed as described, as approved by the Historical Development Board and in accordance with applicable codes.
(Applicant) Print Name:JEREMY TURNER
Signature: JEREMY TURNER Date: 12/15/2023

Kleberg CAD

Property Search > 15287 SHAW SUSANNA for Year 2023

Tax Year: 2023 - Values not available

Property

Account

Property ID:

15287

Legal Description: ORIG TOWN, BLOCK 70, LOT 12, 13

Geographic ID:

100107013000192 Real

Zoning: Agent Code:

Type: Property Use Code:

Property Use Description:

Location

Address:

425 E KENEDY

Mapsco:

Map ID:

C1

Neighborhood: Neighborhood CD:

Owner

Name:

SHAW SUSANNA

Owner ID:

68808

Mailing Address:

425 E KENEDY AVE

% Ownership:

100.0000000000%

KINGSVILLE, TX 78363

Exemptions:

Values

(+) Improvement Homesite Value:	+	N/A

(+) Improvement Non-Homesite Value: +

N/A

(+) Land Homesite Value:

N/A

(+) Land Non-Homesite Value:

N/A Ag / Timber Use Value

(+) Agricultural Market Valuation: (+) Timber Market Valuation:

N/A N/A N/A N/A

(=) Market Value:

N/A

(-) Ag or Timber Use Value Reduction:

N/A

N/A

(=) Appraised Value:

N/A

(-) HS Cap:

N/A

(=) Assessed Value:

Taxing Jurisdiction

Owner:

SHAW SUSANNA

% Ownership: 100.000000000% Total Value:

N/A

Entity	Description	Tax Rate	Appraised Value	Taxable Value	Estimated Tax
CAD	KLEBERG COUNTY APPRAISAL DISTRICT	N/A	N/A	N/A	N/A
CKI	CITY OF KINGSVILLE	N/A	N/A	N/A	N/A
GKL	KLEBERG COUNTY	N/A	N/A	N/A	N/A
SKI	KINGSVILLE I.S.D.	N/A	N/A	N/A	N/A
WST	SOUTH TEXAS WATER AUTHORITY	N/A	N/A	N/A	N/A
	Total Tax Rate:	N/A			

Taxes w/Current Exemptions:	N/A
Taxes w/o Exemptions:	N/A

Improvement / Building

Improvem	ent #1: RESIDENTIAL S	State Code: A1	Living Area:	1250.0 sqft	Value: N/A
Туре	Description	Cla CD		Year S	SQFT
MA	MAIN AREA	FF4	EW3	2020 1	250.0
OPFA	OPEN PORCH FRAME	AVERAGE *		2020 3	4.0
PCFA	PATIO COVERED FRAM	E AVERAGE *		2020 7	6.0

Land

#	Type	Description	Acres	Sqft	Eff Front	Eff Depth	Market Value	Prod. Value
1	A1	A1	0.1607	7000.00	50.00	140.00	N/A	N/A

Roll Value History

Year	Improvements	Land Market	Ag Valuation	Appraised	HS Cap	Assessed
2024	N/A	N/A	N/A	N/A	N/A	N/A
2023	N/A	N/A	N/A	N/A	N/A	N/A
2022	\$90,890	\$4,500	0	95,390	\$0	\$95,390
2021	\$45,910	\$4,500	0	50,410	\$0	\$50,410
2020	\$0	\$4,500	0	4,500	\$0	\$4,500
2019	\$0	\$4,500	0	4,500	\$0	\$4,500
2018	\$14,370	\$4,500	0	18,870	\$0	\$18,870
2017	\$14,370	\$4,500	0	18,870	\$0	\$18,870
2016	\$14,370	\$4,500	0	18,870	\$0	\$18,870
2015	\$21,840	\$4,500	0	26,340	\$0	\$26,340
2014	\$21,840	\$4,500	0	26,340	\$0	\$26,340
2013	\$21,840	\$4,500	0	26,340	\$0	\$26,340
2012	\$38,230	\$4,500	0	42,730	\$0	\$42,730
2011	\$38,230	\$4,500	0	42,730	\$0	\$42,730
2010	\$38,230	\$4,500	0	42,730	\$0	\$42,730

Deed History - (Last 3 Deed Transactions)

#	Deed Date	Туре	Description	Grantor	Grantee Volume		Page	Deed Number
1	7/14/2021	GWDW/VL	GENERAL WARRANTY DEED W/VENDORS LEIN	SANCHEZ RENE	SHAW SUSANNA			326805
2	10/5/2020	GWD	GENERAL WARRANTY DEED	RIVAS DEBRA	SANCHEZ RENE			323379
3	7/6/2020	WD	WARRANTY DEED	NGO EREKA	RIVAS DEBRA			322378

Tax Due

Property Tax Information as of 12/19/2023

Amount Due if Paid on:

Year	Taxing Jurisdiction	Taxable Value	Base Tax	Base Taxes Paid		Discount / Penalty & Interest	Attorney Fees	Amount Due
	Julisuicuon	value	IUA	raiu	Due	or illiferest	rees	Due

NOTE: Penalty & Interest accrues every month on the unpaid tax and is added to the balance. Attorney fees may also increase your tax liability if not paid by July 1. If you plan to submit payment on a future date, make sure you enter the date and RECALCULATE to obtain the correct total amount due.

Questions Please Call (361) 595-5775

TEVACILICADICAL CO	DMMICCIONI	511
TEXAS HISTORICAL CO		511
Project #: 00009 Historic Resources Su	irvey Form Local I	d: 0001-15287
County: Kleburg	Cit	y: Kingsville
Address No: 425 Street Name: East Kenedy Avenue		
SECTION 1		
Basic Inventory Information		
Current Name: Historic Name:		
Owner Information Name: Watson Zak Dylan	Status:	
		71 70262
Address: 301 East Kleberg Ave City: Kingsville	State: TX	Zip: 78363
Geographic Location Latitude: 27.514439	ongitude: -97.863615	
Legal Description (Lot\Block): ORIG TOWN, BLOCK 70, LOT 12, 13		72
Addition/Subdivision:	Year	:
Property Type Building		
Current Designations: □ NR District Is property contributing? [
□ NHL □ NR □ RTHL □ OTHM □ HTC □ SAL □	Local Other	
Architect: Builder		
Contruction Date: c. 1930 Source	Sanborn maps	
Function		
Current: DOMESTIC-Single Dwelling		
Historic: DOMESTIC-Single Dwelling		

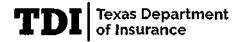
Recorded By: Stefan & Daniela Date Recorded: 5/7/2013



TEXAS HISTORICAL COMMISSION

	TEXAS HISTOR	CAL COMMISSION	建设的设施
Project #: 00009	Historic Reso	ources Survey Form	Local Id: 0001-15287
County: Kleburg			City: Kingsville
ddress No: 425	Street Name: East Ke	nedy Avenue	
SECTION 2			
Architectural Description			
one-and-a-hair-story L-plan s irched doorway, nine-over-o	eep-pitched cross-gabled Tudor R e sash windows, and horizontal si	evival residential building with fro ding. Front chimney has been ren	ont-gabled enclosed entry with noved.
✓ Additions, modifications	Explain: chimney removed		11
Relocated	Explain:		
Stylistic Influence			
udor Revival			
Structural Details			
Roof Form			
Cross-Gabled			
Roof Materials			
Wood Shingles			
Wall Materials			
WOOD-Siding			
Windows			
Wood sash			
Doors (Primary Entrand			
Wood Shingles			
Plan			
L-Plan			
Chimneys			
Porches/Canopies			
FORM Gable Roof			
SUPPORT			
MATERIAL			
NCILLARY BUILDINGS:			
arage:	Barn:	Shed:	Other:
Landscape Features			

		TE	XAS HIST	ORICAL COM	MISSION	J	511	
					ey Form			
SECTION 3	B Historic	al Informatio	n					-
Applicable I	National Reg	gister (NR) Cr	iteria:					
✓ A	Associated	with events the	at have made a s	significant contribution	to the broad p	attern of our hist	tory	
□в	Associated	with the lives of	of persons signific	cant in our past				
□ c	master, or	possesses high						
	Has yielde	d, or is likely to	yield, informatio	n important in prehisto	ory of history			
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		evelopment						
Periods of S 1913-1946	ignificance:							
Levels of Sig	gnificance:	☐ National	☐ State	✓ Local				
Integrity:	✓ Location	✓ Design	☐ Materials	☐ Workmanship	✓ Setting	✓ Feeling	☐ Association	
		nent siding?						
Individually	Eligible? No)	Within Potent	tial NR District?: Yes	5	Is Property C	ontributing?:	7
County: Kleburg Address No: 425								
	Has yielded, or is likely to yield, information important in prehistory of history reas of Significance: chitecture, Community Development eriods of Significance: 213-1946 evels of Significance: National State Local etegrity: Location Design Materials Workmanship Setting Feeling Association ntegrity Notes: chimney removed, replacement siding? Individually Eligible? No Within Potential NR District?: Yes Is Property Contributing?: Ither Information Explain:							
Documentat	ion Details:							



Application for Certificate of Compliance Form WPI-1

App ID:2355711

Physical Address of Structure to be Inspected

425 EAST KENEDY AVENUE

Tract/Addition:

City: Kingsville

ZIP: 78363

County: Kleberg

City Limits: Inside City Limits

Structure is located in:

Is the structure located in a Coastal Barrier Resource Zone (CBRA): No

Owner

Phone:

Name: SUSANNA SHAW Mailing Address: 425 EAST KENEDY AVENUE

Fax: 78363

Fax: 77043

Name: NIVO LLC Mailing Address: 1334 Brittmoore Rd. STE 2310

Phone:

City: Houston

City: Kingsville

Engineer

Name: Joshua A Senecal Mailing Address: 15317 Gypsy St Email: senecalja1@Gmail.com

Phone: (252) 764-7382 City: Corpus Christi Texas Registration No.: 130638

Fax: 7IP: 784186480

Commencement of Construction Date

Date of Application

Type of Building

12-08-2023

12-12-2023

House

Inspections

1. Mechanical, Solar Panel(s) -

Number of Panels: 15 Panels, Location or Identifier: 12 Panels on the East Pitch, 3 Panels on the West Pitch,

2.

3.

Comments

Submitter

Name: Joshua Senecal Submitter Type: Engineer Phone: (252) 764-7382

Date: 12-12-2023

For Texas Department of Insurance Inspections: mail or email to your local field office

For inspections by engineers: mail or email to Austin office: windstorm@tdi.texas.gov

Texas Department of Insurance

Windstorm Inspections Program

P.O. Box 12030

Austin, TX 78711-2030

Texas Department of Insurance | www.tdi.texas.gov

1/2

PC350(WPI-1) | 0908



December 14, 2023

Roof Mounted Photovoltaic Array System Design Certification

425 E KENEDY AVE, KINGSVILLE, TX 78363

I have reviewed the following information regarding solar panel installation on the roof of the above referenced home:

- 1. Site Visit/Verification Form prepared by a Nivo representative identifying specific site information including size and spacing of rafters for the existing roof structure.
- Design drawings of the proposed system including a site plan, roof plan and connection details for the solar panels. This information was prepared by Nivo and will be utilized for approval and construction of the proposed system.
- Photographs of the interior and exterior of the roof system identifying existing structural members and their conditions.

Based on the above information I have evaluated the structural capacity of the existing roof system to support the additional loads imposed by the solar panels and have the following comments related to the provided design.

A. Basis of Design:

- The design conforms with the loading criteria and calculation methods as stated in ASCE7-16
- This design conforms to the Chapter 3 "Wind Design" requirements of International Residential Code 2018

i. TDI COMPLIANT DESIGN

- c. K2 Systems Report #2020-02753HG.02 "Engineering Certification for the K2 Systems Crossrail Dual Rail 44-X System for Gable and Hip Roofs" (dtd March 1, 2023) provides rail spans based on ASCE7-16 methods.
- d. Miami Dade NOA 22-0719.06 K2 System approved system assemblies. Includes K2 Splice Foot X and Cross Rail series approved assembly.
- e. Regions where V_{ULT} is greater than 130MPH, Wind Engineering is required, per IRC 2018 Figure R301.2(5)B

B. Load Criteria

a. Ultimate Wind Speed, V_{ULT}= 136 MPH per Applied Technology Council (ATC) "Hazards by Location"

i. https://hazards.atcouncil.org/#/

b. Crossrail 44-X Rail Span based on Ultimate Design Wind Speed, Vult = 150 MPH

c. Exposure Category C, Risk Factor II

- d. ASCE 7-16 Rafter/Truss Design Live Load =20 psf
 - i. Per ASCE 7-16 areas where solar panels are installed Live Load = 0 psf

e. ASCE 7-16 Rafter/Truss Design Dead Load =10 psf

- Solar Panels, associated racking and accessory equipment Dead Load = 2.6 psf
- ii. Actual Dead Load of IRC compliant roof system with shingles = 5.3 psf
- Total actual Dead Load = 7.9 psf; therefore, the increased Dead Load remains less than the Design Dead Load of 10 psf.

Snow Load = 0 psf

Based on the above loading criteria, the proposed equipment layout, industry standards and provisions of the International Residential Code 2018, the existing structural frame will support the load of the new solar system.

Joshua Senecal, P.E.

Firm #21791

252-764-7382

TX PE#130638

12/14/2023

LRSCivilEngineer@gmail.com



- c. Roof Attachment
 - a. All Roof Areas: K2 Systems 44-X Rail
 - Space the K2 Systems Splice Foot XL at 48" on-center in Roof Zones 1, 2e, 2r & 3.
 - b. Roof Zones are defined as follows:
 - i. Roof Zone 1: locations not within 3' from any edge or corner.
 - ii. Roof Zone 2r: locations within 3' of a ridge.
 - iii. Roof Zone 2e: locations within 3' of the lower edge.
 - iv. Roof Zone 2n: locations within 3' of the side gable edge.
 - v. Roof Zone 3e: locations within 3' of the lower edge corner.
 - vi. Roof Zone 3r: locations within 3' of a ridge corner.
 - c. "Exposed" and "Non-Exposed" Rails
 - i. The "Exposed" and "Non-Exposed" span values provided on the "Exposure Detail" refer to the allowable K2 Splice Foot spacing based on location of the associated rail with relation to the position of the panel within an array.
 - ii. A panel is considered "Exposed" if one of the following conditions are met:
 - Any panel located within an array that does not have an adjacent panel within 48".
 - Any panel that is located greater than 48" and/or a distance greater than half the mean roof height from a ridge or edge.
 - Any panel that is located greater than 1.5 times the panel length (portrait) or 1.5 times the panel width (landscape) from a hip ridge or gable rake.
 - iii. If a panel is considered "Exposed"
 - 1. The "Exposed" span value applies to both rails of the panel.
 - iv. If a panel is considered "Non-Exposed"
 - 1. The "Non-Exposed" span values apply both rails of the panel.
 - v. Exposed panels will be highlighted in red on the "Exposure Detail"
 - d. Structural installation must be completed per Miami-Dade NOA 22-0719.06 and K2 Systems installation manuals. Miami-Dade NOA 22-0719.06 takes precedence.
 - e. Attach the K2 Systems Splice Foot with the two provided stainless steel M5X60mm wood screws with sealing washer.
 - f. Install K2 Butyl gasket between the roof covering system and the K2 Splice Foot.
 - g. Rafter mounting procedure is the only authorized installation method.
 - Stagger anchor points to minimize the occurrence of two adjacent rails being attached to the same structural member.
 - Use only factory provided hardware as directed by the manufacturer's installation manual.
 - Maximum cantilever is defined as 1/3 the maximum span length of the 44-X rail in the applicable Roof Zone found on the calculation sheet.



Joshua Senecal, P.E.

Firm #21791

252-764-7382

TX PE#130638

12/14/2023

LRSCivilEngineer@gmail.com



Solar Array Calculation Sheet #23:	1126					
Property Address		425 KENEDY AVENI KINGSVILLE, TX 783	7.75			
Ultimate Wind Speed		136 MPH	ATC Hazrds by Location		https://hazar	rds.atcouncil.org/#/
Roof Pitch (Degrees)		27				
Roof Type		HIP				
Exposure Code		c				
Risk Factor		11		Figure	30.3-2H	
	ASCE7-16 Citat	ion	Roof Pitch	27	to 45	
Topographical Factor (K ₂₁)	Sect 26.8.2	1.00		Portriat	Landscape	
Exposure Coefficient (K ₂)	Tab 26.10-1	0.85	Positive GC _a	0.60	0.75	
Directional Factor (K _d)	Tab 26.6-1	0.85	Zone 1 GC _p	-1.45	-1.50	
Ground Elevation Factor (K _e)	Table 26.9-1	1.00	Zone 2e GC,	-1.80	-2.30	
Exposure Factor (γ _ε) "Exposed"		1.50	Zone 2r GC _a	-2.40	-2.70	
Pressure Equalization Factor (γ _a)	Figure 29.4-3	0.71 (PORTRAIT	Zone 3 GC,	-2.50	-3.50	
Pressure Equalization Factor (γ _a)	Figure 29.4-8	0.80 (LANDSCAF	רבו			
Mean Roof Height (ft)		14.50				
Velocity Pressure (q _H) psf		26.34				
Length of Panel (in)		74.00				
Width of Panel (in)		41.10				
Weight of Panel (Ibs)		49.60				
Solar Panel Area (sqft)		21.12				
Array Dead Load (psf)		2.60				
Roof Connection Effective Area (so	(ft)	12.33 at 48" s	pacing in PORTRIAT			
Roof Connection Effective Area (so	(ft)	6.85 at 48" s	pacing in LANDSCAPE			

1:12	4.8 deg
2:12	9.5 deg
3:12	14 deg
4:12	18.4 deg
5:12	22.6 deg
6:12	26.6 deg
7:12	30.3 deg
8:12	33.7 deg
9:12	36.9 deg
10:12	39.8 deg
11:12	42.5 deg
12:12	45 deg

	Applied Wind Pressure (psf) Analytical Method ASCE7-16 Chapter 26		Total Pre	Total Pressure (psf)		Connection Point Load (lbs)		Connection Point Load (lbs)		n Point Load bs)	Max Rail Span	Anchor Spacing
Portrait Orientation			ASCE7-16		24" On Center Connections		32" On Center Connections		48" On Center Connections		K2 CR 44-X	K2 SPLICE FOOT X
	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(in)	(in)
Zone 1	19.8	-38.2	15.66	-25.42	96.60	-156.75	128.80	-209.00	193.20	-313.50	58"	48"
Exposed	19.8	-57.3	15.66	-38.96	96.60	-240.24	128.80	-320.32	193.20	-480.48	47"	32"
Zone 2e	19.8	-47.4	15.66	-31.95	96.60	-197.05	128.80	-262.74	193.20	-394.11	58"	48"
Exposed	19.8	-71.1	15.66	-48.76	96.60	-300.70	128.80	-400.93	193.20	-601.39	47"	32"
Zone 2r	19.8	-63.2	15.66	-43.16	96.60	-266.15	128.80	-354.87	193.20	-532.30	58"	48"
Exposed	19.8	-94.8	15.66	-65.57	96.60	-404.34	128.80	-539.12	193.20	808.68	47"	32"
Zone 3	19.8	-65.9	15.66	-45.03	96.60	-277.67	128.80	-370.22	193.20	-555.33	49"	48"
Exposed	19.8	-98.8	15.66	-68.37	96.60	-421.61	128.80	-562.15	193.20	-843.22	40"	32"

	Applied Wind Pressure (psf) Analytical Method ASCE7-16 Chapter 26		Total Pre	Total Pressure (psf)		ion Point (lbs)		n Point Load bs)	(4)	n Point Load bs)	Max Rail Span	Anchor Spacing
Landscape Orientation			ASCE7-16		24" On Center Connections		32" On Center Connections		48" On Center Connections		K2 CR 44-X	K2 SPLICE FOOT X
	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(in)	(in)
Zone 1	19.8	-38.2	17.68	-28.68	60.54	-98.24	80.73	-130.99	121.09	-196.49	58"	48"
Exposed	19.8	-57.3	17.68	-43.96	60.54	-150.57	80.73	-200.76	121.09	-301.15	47"	32"
Zone 2e	19.8	-47.4	17.68	-36.06	60.54	-123.51	80.73	-164.68	121.09	-247.01	58"	48"
Exposed	19.8	-71.1	17.68	-55.03	60.54	-188.47	80.73	-251.29	121.09	-376.93	47"	32"
Zone 2r	19.8	-63.2	17.68	-48.70	60.54	-166.81	80.73	-222.42	121.09	-333.62	58"	48"
Exposed	19.8	-94.8	17.68	-73.99	60.54	-253.42	80.73	-337.90	121.09	-506.85	47"	32"
Zone 3	19.8	-65.9	17.68	-50.81	60.54	-174.03	80.73	-232.04	121.09	-348.06	49"	48"
Exposed	19.8	-98.8	17.68	-77.15	60.54	-264.25	80.73	-352.33	121.09	-528.50	40"	32"

LRS ENGINEERING TX FIRM #21791

12/14/2023

CALCULATIONS REPEARED BY:
JOSHUA SENECAL, P.E.
TX P.E. #130638

A This is a bela release of the new ATC Hazards by Location website. Please contact us with feedback.

The ATC Hazards by Location website will not be updated to support ASCE 7-22. Find out why.

ATC Hazards by Location

Search Information

425 E Kenedy Ave, Kingsville, TX 78363, USA

Coordinates: 27.514441, -97.8636148

Timestamp: 2023-12-11T16:06:55.379Z

Hazard Type:



You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.		You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.	
Risk Category II	▲ 136 mph	Risk Category II	▲ 136 mph
Risk Category I	127 mph	Risk Category I	127 mph
MRI 100-Year	112 mph	MRI 100-Year	112 mph
MRI 50-Year	102 mph	MRI 50-Year	102 mph
MRI 25-Year	88 mph	MRI 25-Year	91 mph
MRI 10-Year	75 mph	MRI 10-Year	76 mph
ASCE 7-16		ASCE 7-10	

▲ 145 mph Risk Category III

If the structure under consideration is a healthcare facility and you are also within 1 mile of the coastal mean high water line, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-bome debris region.

▲ 149 mph Risk Category IV

You are in a wind-borne debris region.

Go	Hebbronville	San Diego 61 ft 77 Kingsville Riviera	o data ®2023 Google, INEGI	
		ASCE 7-05		
	76 mph	ASCE 7-05 Wind Speed	▲ 113 mph	
	91 mph	You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.		
	102 mph			
	112 mph			
	127 mph			
	17			

facility and you are also within 1 mile of the coastal mean high water line, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-borne debris region.

If the structure under consideration is a healthcare

▲ 145 mph

Risk Category III-IV

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Please note that the ATC Hazards by Location website will not be updated to support ASCE 7-22. Find out why,

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, Islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area - in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris region.

Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.

While the information presented on this website is believed to be correct, ATC and its sponsors and contributors assume no responsibility or liability for its accuracy. The material presented in the report should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. ATC does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the report provided by this website. Users of the information from this website assume all liability arising from such use. Use of the output of this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the report.

DUBSTALL RÖCE MOLNTED SOLAR PHOTOVOLIZACI SYSTEM AT THE OWNER RESIDENCE LOCATED AT 425 E KENEDY ANE, KINGSVILLE TY 78363, USA.
THE POWER GENERATED BY THE PV SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY GRID THROUGH THE EXISTING ELECTRICAL SERVICE EQUIPMENT.
THE PV SYSTEM DOES NOT INCLUDE STORAGE BATTERIES.

15 Q CELLS Q. PEAK DUO BLK ML-G10+ 405 MODULES EQUIPMENT SUMMARY

15 ENPHASE IQ8PLUS -72-2-US (240V) MICROINVERTERS

GENERAL NOTES

* THESE CONSTRUCTION DOCUMENTS HAVE BEEN BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE ATTHE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE OTHER INFORMATION. MODIFICATIONS

CONTRACTOR HAS THE FULL RESPONSIBILITY TO CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK, ANY WORK STARTED BEFORE CONSULTATION AND ACCEPTANCE BY THE ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CORRECTION BY THEM WITHOUT ADDITIONAL COMPRENSATION. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, OBTAIN ALL PERMITS. LICENSES AND PAY ALL REQUIRED FEES AND COMPLETE INSTALLATION.

DAMAGE CAUSED TO THE EXISTING STRUCTURE, PIPES, DUCTS, WINDOWS, WALL, FLOORS, ETC. SHALL BE REPAIRED TO THE ORIGINAL CONDITION OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK WITH APPROVED MATERIALS.

CONTRACTOR SHALL OBTAIN BULDING PERMIT. NO WORK TO START UNLESS BUILDING PERMIT IS PROPERLY DISPLAYED.

ALL WORKMANSHIP AND MATERIALS SHALL BE OF FIRST OUALITY AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE MATIONAL BULLDING CODE, THE DEPARTMENT OF ENVIRONMENTAL PEGLECTION AND ALL PERTINENT AGENCIES.

IT IS ESSENTIAL THAT ALL WORK PROCEED WITH THE MAXIMUM COOPERATION OF ALL PARTIES AND WITH MINIMUM INTERFEIRING TO THE COMPAIN'S WITHIN THE BUILDING. THE OWNER'S DIRECTIONS IN THIS REGARD SHALL BE FULLY COMPLIED WITH.

THE CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, AFFIDAVITS, CERTIFICATIONS, ETC, AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN STRICT CONFORMANCE WITH THE LOCAL LAWS, REGULATIONS AND THE NATIONAL ELECTRIC CODE.

CONTRACTORS SHALL OBTAIN FIRE CERTIF. UPON COMPLETION OF WORK,

ELECTRICAL NOTES

ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT. WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.

WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.

WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.

 MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURERS INSTRUCTION. ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.

MODULE SUPPORT RAIL SHALL BE BONDED TO THE MODULE

TDI COMPLIANT DESIGN
IRC 2018 CHAPTER 3 WIND REQUIREMENTS ONLY
ASCE7-16. PROSUBE CATEGORY C, RISK FACTOR II
ULTIMATE DESIGN WIND SPEED = 136 MPH

2018 INTERNATIONAL RESIDENTIAL CODE 2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRICAL CODE

AHJ NAME : KINGSVILLE CIT

MIRING AND CONDUIT NOTES
ALL CONDUIT SIZES AND TYPES SHALL BE LISTED FOR ITS PURPOSE AND
APPROVAL FOR THE SITE APPLICATIONS

NIVO LLC 1334 BRITTMOORE RD SUITE 2310, HOUSTON, TX 77043, USA PH#: (832) 621-0806

(15) ENPHASE IGBPLUS -72-2-US (240V) Q.PEAK DUO BLK ML-G10*

SYSTEM INFO

DC SYSTEM SIZE, 6.075

ESI ID: 100327894524776 METER: 200 506 549

ALL PV CABLES AND HOMERIUN WIRES BE #10AWG "USE-2, PV WIRE, OR PROPRIETARY SOLAR CABLING SPECIFIED BY WIRE, OR EQUIVALENT; ROUTED TO SOUNCE CIRCUIT COMBINER BOXES AS REQUIRED. ALL PV DC CONDUCTORS IN CONDUIT EXPOSED TO SUNLIGHT SHALL BE DERATED ACCORDING TO AS PER LATEST NEC CODE.

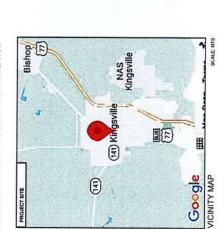
EXPOSED ROOF PV DC CONDUCTORS SHALL BE USE-2, 90°C RATED. WET AND UV RESISTANT, AND UL LISTED RATED FOR BOW, UV RATED SPIRAL WRAP SHALL BE USED TO PROTECT WIRE FROM SHARP EDGES

PHASE AND NEUTRAL CONDUCTORS SHALL BE DUAL RATED THHN/THWN-2 NSULATED, 90°C RATED, WET AND UV RESISTANT, RATED FOR 1000V AS PER APPLICABLE NEC

4-WIRE DELTA CONNECTED SYSTEMS HAVE THE PHASE WITH THE HIGHER VOLTAGE TO GROUND MARKED ORANGE OR IDENTIFIED BY OTHER EFFECTIVE MEANS

ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE CIRCUIT PROTECTION

 AC CONDUCTORS >4AWG COLOR CODED OR MARKED: PHASE A OR L1- BLACK, PHASE B OR L2- RED, PHASE C OR L3- BLUE, NEUTRAL- WHITE/GRAY VOLTAGE DROP LIMITED TO 2%







NABCEP BADGE PVIS - 012223-013581

NABCEP

SCALE NTS

PHONE NO. (830) 331-0216 EMAIL ID: SUSANNAREP@YAHOO.COM A2U , £8£87 459 E KENEDY AVE, KINGSVILLE, TX RESIDENCE

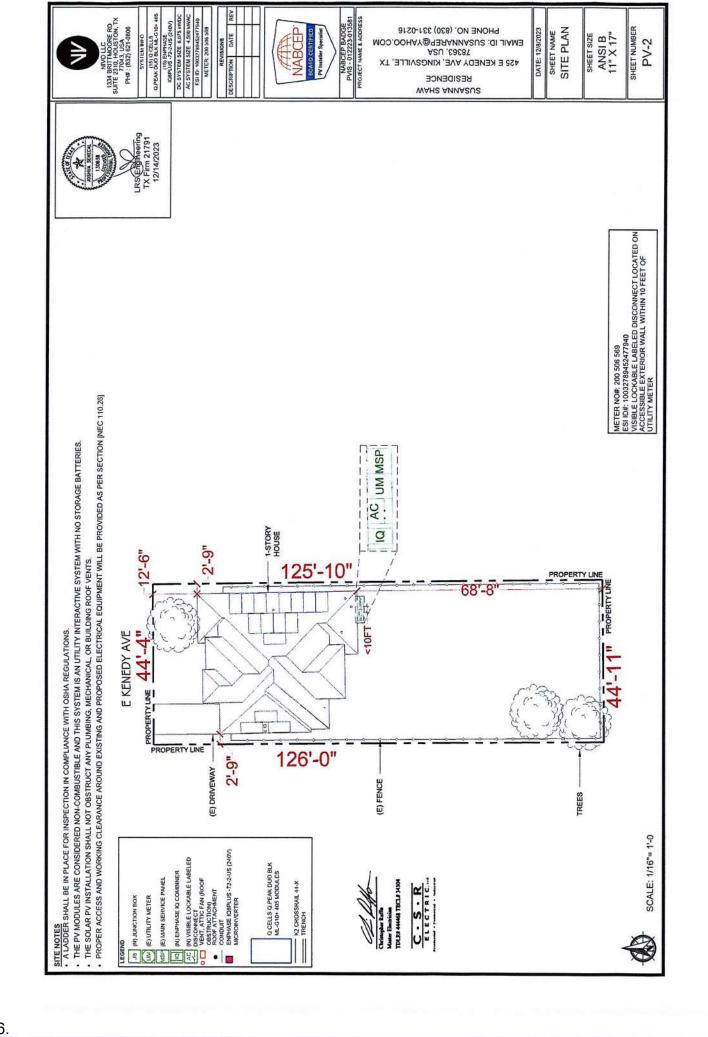
WAHS ANNASUS

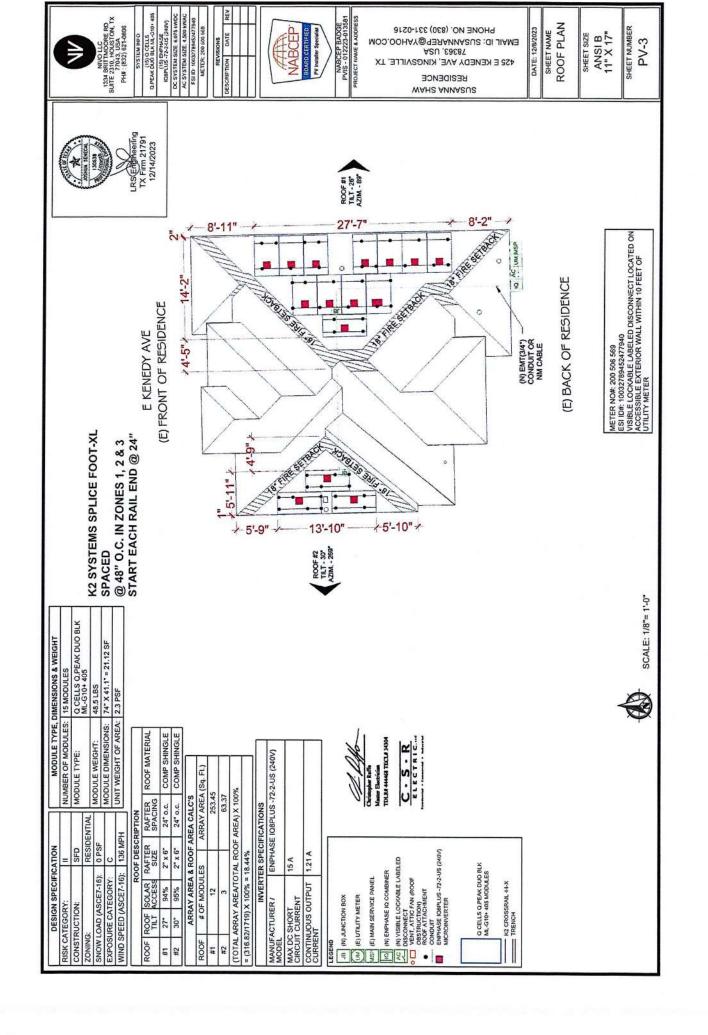
COVER PAGE DATE: 12/8/2023 SHEET NAME

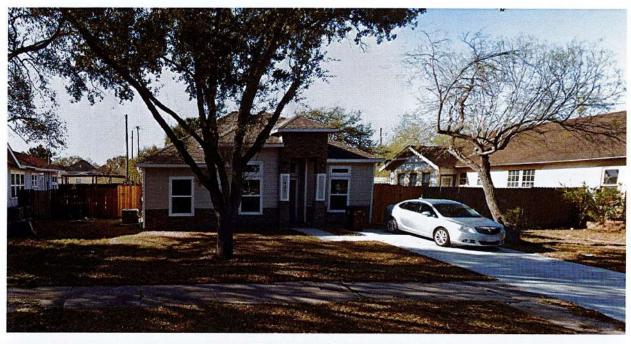
ANSI B 11" X 17" SHEET SIZE

SHEET NUMBER PV-1

35.









CITY of KINGSVILLE **DOWNTOWN**



HISTORIC DEVELOPMENT BOARD

DATE:

December 19th, 2023

TO:

Historic Development Board

FROM:

Kobby Agyekum (Senior Planner/Historical Preservation Officer)

SUBJECT:

Discuss and Consider Action to install 32 roof mounted Solar Panels at property on residential building on HENRIETTA HGTS, BLOCK 2, LOT 25-27 also known as 620

West Richard Avenue, Kingsville, TX 78363

APPLICANT:

Jeremy Turner, Mr.

CONTRACTOR: Nivo Solar LLC

REQUEST

Discuss and Consider Action to install 32 roof mounted Solar Panels at property on residential building on HENRIETTA HGTS, BLOCK 2, LOT 25-27 also known as 620 West Richard Avenue, Kingsville, TX 78363

EXHIBITS

Application. 2022 Appraisal Roll, Kleberg County Appraisal District Information details, Data from Texas Historical Commission (Historic Resources Survey Form), Engineer's letter, Authorization letter. Drawings, and illustrations.

BACKGROUND & PERTINENT DATA

This is a One-story front-gabled irregular-plan residential building with front-gabled partial-width offset porch supported by square wood posts, horizontal siding, wood-framed sash windows, exposed rafter tails, rear additions and detached two-car garage at rear of property, located within the Historic District. This property is associated with events that have made significant contribution to the broad pattern to our history and considered as part to the historic district with low priority for preservation.

STAFF REVIEW & RECOMMENDATION

Staff has reviewed the application and found same to be in conformity with the Secretary of the Interior's Standard for Rehabilitation. Consequently, it is the recommendation of Staff to approve the installation of 32 mounted solar panels on residential building at 620 West Richard Avenue as there would be no adverse impact to the historic, cultural, or architectural nature of the district.

BOARD REVIEW

Scope of Historical Development Board

In general, Historical Development Board considers the following factors when making a recommendation concerning the issuing of a permit for the construction, reconstruction, alteration, restoration, relocation, demolition or razing of all or part of any building, structure or appurtenance within a historic district:

1) The effect of the proposed change upon the general historic, cultural and architectural nature of the district.

- 2) The appropriateness of exterior architectural features which can be seen from a public street, alley, road, highway or walkway.
- 3) The general design, arrangement, texture, material and color of the building, structure or appurtenances and the relation of such factors to similar features of buildings, structures or appurtenances in the district. The criterion shall not be the aesthetic appeal to the Board of the structure or the proposed remodeling, but rather its' conformity to the general character of the particular historic area involved.
- 4) Signs which are out of keeping with the character of the historic district in question shall not be permitted.
- 5) The value of the historic district as an area of unique interest and character shall not be impaired.

Standards of the Secretary of the Interior

- 1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.
- 2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
- 3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.
- 4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.
- 5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.
- 6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.
- 7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.
- 8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.
- 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.

SIGNATURES

Kobby Agyekum Senior Planner/HPO

Historical Development Board Review Application

Applicant:JEREMY TURNER
Address:18719 Big Elm Drive Cypress TX 77433
Contact: Cell: 254-203-5606 Home:
Email:permitting@hellonivo.com
Property Owner: RONALD O'NEIL
Address: 620 W Richard Ave Kingsville, TX 78363
Contact: Cell:(361) 288-6533 Home:
Property Location and Description: 620 W Richard Ave Kingsville, TX 78363
Description of Work: Installation of 32 solar panels on the roof.
Contractor: NIVO SOLAR LLC/JEREMY TURNER
Contact: Cell: _254-203-5606
Email:permitting@hellonivo.com
Documents Required:
Sketch, Drawing, Plans, Site Plans, Mock-ups
Photographs (Historic, Current, Surrounding Structures) Materials List or Samples
4. Proof of Ownership
5. Letter of Representation and Work Approval from Property Owner (If Applicable)
I certify that this information and the additional information submitted to the Planning Department is correct and that the work will be completed as described, as approved by the Historical Development Board and in accordance with applicable codes. (Applicant) Print Name: JEREMY TURNER Signature: JEREMY TURNER Date: 12/12/2023
Signature: <u>JERE/MY TURNER</u> Date: <u>12/12/2023</u>

	TEXAS HISTOR	ICAL COMMISSION	899
Project #: 00009 County: Kleburg		arees survey 1 orm	ocal Id: 0001-13411 City: Kingsville
Address No: 620	Street Name: West Ric	chard Avenue	
SECTION 1			
Basic Inventory I	nformation		
Current Name: Historic Name:			
Owner Information	Name: Clark Bryan	Status:	
Address: 620 West R	ichard Ave City: Kingsville	State: TX	Zip: 78363
Geographic Location	Latitude: 27.52179	Longitude: -97.875789	
Legal Description (Lot\E	Block): HENRIETTA HGTS, BLOCK	2, LOT 25-27	
Addition/Subdivision:	HENRIETTA HEIGHTS		Year:
Property Type	Building		
Current Designation	s: NR District Is property con	tributing?	
□ NHL □ NR	□ RTHL □ OTHM □ HTC □	SAL Local Cher	
Architect:		Builder	
Contruction Date:	1950	Source Tax Appraiser	
Function			
Current: DOMESTIC-S	Single Dwelling		
Historic: DOMESTIC-	Single Dwelling		





TEXAS HISTORICAL COMMISSION 899 Project #: 00009 Historic Resources Survey Form Local Id: 0001-13411 County: Kleburg City: Kingsville Address No: 620 Street Name: West Richard Avenue **SECTION 2 Architectural Description** One-story front-gabled irregular-plan residential building with front-gabled partial-width offset porch supported by square wood posts, horizontal siding, wood-framed sash windows, exposed rafter tails, rear additions, and detached two-car garage at rear of property. ✓ Additions, modifications Explain: rear additions ☐ Relocated Explain: Stylistic Influence No Style Structural Details Roof Form Front-Gabled **Roof Materials** Composition Shingles **Wall Materials** WOOD-Siding Windows Wood sash **Doors (Primary Entrance** Composition Shingles Plan Irregular Chimneys

FORM Gable Roof SUPPORT Wood posts (plain) MATERIAL ANCILLARY BUILDINGS: Garage: 1 Barn: Shed: Other:

Porches/Canopies

Landscape Features

		TE	XAS HIST	ORICAL COM	IMISSION	1	899
Project #: County: Address No:				esources Surv	ey Form		0001-13411 Kingsville
SECTION 3	3 Historic	cal Informatio	n				
Associated H Planning/Deve		ntext					
Applicable I	National Re	gister (NR) Cr	iteria:				
✓ A	Associated	with events the	at have made a s	significant contribution	to the broad p	oattern of our his	tory
□в	Associated	with the lives	of persons signifi	cant in our past			
□ c	master, or	the distinctive of possesses high dual distinctions	artistic value, or	a type, period or meth r represents a significa	od of construc nt and distingu	tion or represent uishable entity wh	s the work of a nose components
	Has yielde	d, or is likely to	yield, informatio	n important in prehisto	ory of history		
Areas of Sign Community De							
Periods of Si 1946-1985	ignificance:						
Levels of Sig	nificance:	☐ National	☐ State	✓ Local			
Integrity:	✓ Location	Design	✓ Materials	✓ Workmanship	✓ Setting	✓ Feeling	Association
Integrity No	ites:						
Individually	Eligible? No)	Within Potent	tial NR District?: Yes	S	Is Property C	Contributing?:
Priority:	Medium	Expl	ain:				
Other Inform		available for t	his resource?	No	Туре	☐ HABS ☐ Su	urvey Other
Documentat	ion Details:						

Kleberg CAD

Property Search > 13411 O'NEIL RONNIE J for Year 2023

Tax Year: 2023 - Values not available

Property

Account

Property ID:

13411

Legal Description: HENRIETTA HGTS, BLOCK 2, LOT 25-27

Geographic ID: 135000225000192 Zoning:

Type:

Real

Agent Code:

Property Use Code:

Property Use Description:

Location

Address:

620 W RICHARD

Neighborhood:

Map ID:

Mapsco:

A2

Neighborhood CD:

Owner

Name:

O'NEIL RONNIE J

Owner ID:

68848

Mailing Address:

620 W RICHARD

% Ownership:

100.0000000000%

KINGSVILLE, TX 78363

Exemptions:

Values

(+) Improvement Homesite Value:

N/A

(+) Improvement Non-Homesite Value: +

N/A

(+) Land Homesite Value:

N/A

(+) Land Non-Homesite Value:

N/A Ag / Timber Use Value N/A N/A

N/A

(+) Agricultural Market Valuation:

(+) Timber Market Valuation:

N/A

(=) Market Value:

N/A

(-) Ag or Timber Use Value Reduction:

N/A

(=) Appraised Value:

N/A

(-) HS Cap:

N/A

(=) Assessed Value:

+

N/A

Taxing Jurisdiction

Owner:

O'NEIL RONNIE J

% Ownership: 100.0000000000%

Total Value:

N/A

Entity	Description	Tax Rate	Appraised Value	Taxable Value	Estimated Tax
CAD	KLEBERG COUNTY APPRAISAL DISTRICT	N/A	N/A	N/A	N/A
CKI	CITY OF KINGSVILLE	N/A	N/A	N/A	N/A
GKL	KLEBERG COUNTY	N/A	N/A	N/A	N/A

SKI WST	KINGSVILLE I.S.D. SOUTH TEXAS WATER AUTHORITY	N/A N/A	N/A N/A	N/A N/A	N/A N/A
WSI	Total Tax Rate:	N/A	N/A	N/A	IN/A
			Taxes w/Cui	rrent Exemptions:	N/A
			Taxes w/o Exemptions:		N/A

Improvement / Building

Improv	ement #1: RESIDENTIAL State Code: A1	Living	Area: 18	34.0 sq	ft Value: N/A
Туре	Description	Class CD	Exterior Wall	Year Built	SQFT
MA	MAIN AREA	FF4	EW1	1950	1884.0
OPFA	OPEN PORCH FRAME AVERAGE	*		1950	76.0
CNC	CONCRETE SLAB RESIDENTIAL	*		1950	216.0
DGFU	DETACHED GARAGE FRAME UNFINISHED	*		1950	480.0

Land

#	Type	Description	Acres	Sqft	Eff Front	Eff Depth	Market Value	Prod. Value
1	A1	A1	0.2410	10500.00	75.00	140.00	Market Value N/A	N/A

Roll Value History

Year	Improvements	Land Market	Ag Valuation	Appraised	HS Cap	Assessed
2024	N/A	N/A	N/A	N/A	N/A	N/A
2023	N/A	N/A	N/A	N/A	N/A	N/A
2022	\$76,480	\$7,500	0	83,980	\$0	\$83,980
2021	\$76,480	\$7,500	0	83,980	\$0	\$83,980
2020	\$72,990	\$7,500	0	80,490	\$0	\$80,490
2019	\$63,690	\$7,500	0	71,190	\$0	\$71,190
2018	\$78,270	\$7,500	0	85,770	\$0	\$85,770
2017	\$67,880	\$7,500	0	75,380	\$0	\$75,380
2016	\$72,720	\$7,500	0	80,220	\$0	\$80,220
2015	\$72,720	\$7,500	0	80,220	\$0	\$80,220
2014	\$72,720	\$7,500	0	80,220	\$0	\$80,220
2013	\$72,720	\$7,500	0	80,220	\$0	\$80,220
2012	\$72,720	\$7,500	0	80,220	\$0	\$80,220
2011	\$72,720	\$7,500	0	80,220	\$0	\$80,220
2010	\$72,720	\$7,500	0	80,220	\$0	\$80,220

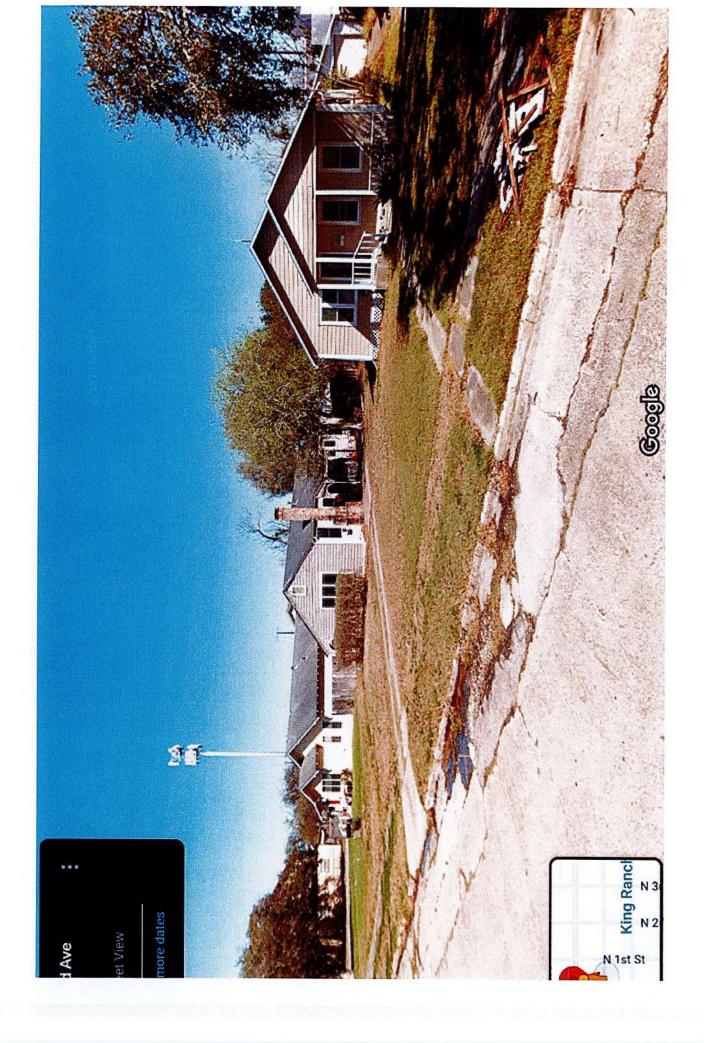
Questions Please Call (361) 595-5775

This year is not certified and ALL values will be represented with "N/A".

Website version: 1.2.2.33

Database last updated on: 12/18/2023 8:17 PM

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Application for Certificate of Compliance Form WPI-1

App

ID:2353631

Physical Address of Structure to be Inspected

620 WEST RICHARD

Tract/Addition:

City: Kingsville

ZIP: 78363

County: Kleberg

City Limits: Inside City Limits

Structure is located in:

Is the structure located in a Coastal Barrier Resource Zone (CBRA); No

Name: Ronald O'Neil

Mailing Address: 620 WEST RICHARD

Риопе;

City: Kingsville

Name: Nivo Mailing Address: 1334 Brittmoore Dr STE 2310

Phone:

City: Houston

Fax: ZIP: 77043

Name: Joshua A Senecal Mailing Address: 15317 Gypsy St Email: senecalja1@Gmail.com Commencement of Construction Date

Phone: (252) 764-7382 City: Corpus Christi Texas Registration No.: 130638

Fax: 784186480

Date of Application

Type of Building

11-20-2023

11-20-2023

House

Inspections

1. Mechanical, Solar Panel(s) -

Number of Panels: 32 Panels, Location or Identifier: 11 panels on the eastern pitch and 21 panels on the western pitch.,

2.

3.

Comments

Submitter

Name: Joshua Senecal

Phone: (252) 764-7382

Date: 11-20-2023

Submitter Type: Engineer

For Texas Department of Insurance Inspections: mail or email to your local field office

For inspections by engineers: mail or email to Austin office: windstorm@tdi.texas.gov

Texas Department of Insurance

Windstorm Inspections Program

P.O. Box 12030

Austin, TX 78711-2030

Texas Department of Insurance | www.tdi.texas.gov

1/2

PC350(WPI-1) | 0908

https://appscenter.tdi.texas.gov/windstorm/wpi1wizard

1/2



November 22, 2023

Roof Mounted Photovoltaic Array System Design Certification

620 WEST RICHARD AVENUE, KINGSVILLE, TX 78363

I have reviewed the following information regarding solar panel installation on the roof of the above referenced home:

- Site Visit/Verification Form prepared by a Nivo representative identifying specific site information including size and spacing of rafters for the existing roof structure.
- Design drawings of the proposed system including a site plan, roof plan and connection details for the solar panels. This information was prepared by Nivo and will be utilized for approval and construction of the proposed system.
- Photographs of the interior and exterior of the roof system identifying existing structural members and their conditions.

Based on the above information I have evaluated the structural capacity of the existing roof system to support the additional loads imposed by the solar panels and have the following comments related to the provided design.

- A. Basis of Design:
 - The design conforms with the loading criteria and calculation methods as stated in ASCE7-16
 - This design conforms to the Chapter 3 "Wind Design" requirements of International Residential Code 2018
 - i. TDI COMPLIANT DESIGN
 - c. K2 Systems Report #2020-02753HG.02 "Engineering Certification for the K2 Systems Crossrail Dual Rail 44-X System for Gable and Hip Roofs" (dtd March 1, 2023) provides rail spans based on ASCE7-16 methods.
 - Miami Dade NOA 22-0719.06 K2 System approved system assemblies. Includes K2 Splice Foot X and Cross Rail series approved assembly.
 - e. Regions where Volt is greater than 130MPH, Wind Engineering is required, per IRC 2018 Figure R301.2(5)B
- B. Load Criteria
 - a. Ultimate Wind Speed, V_{ULT}= 135 MPH per Applied Technology Council (ATC) "Hazards by Location"
 - i. https://hazards.atcouncil.org/#/
 - b. Crossrail 44-X Rail Span based on Ultimate Design Wind Speed, Vult = 140 MPH
 - c. Exposure Category C, Risk Factor II
 - d. ASCE 7-16 Rafter/Truss Design Live Load =20 psf
 - i. Per ASCE 7-16 areas where solar panels are installed Live Load = 0 psf
 - e. ASCE 7-16 Rafter/Truss Design Dead Load =10 psf
 - Solar Panels, associated racking and accessory equipment Dead Load = 2.6 psf
 - ii. Actual Dead Load of IRC compliant roof system with shingles = 5.3 psf
 - iii. Total actual Dead Load = 7.9 psf; therefore, the increased Dead Load remains less than the Design Dead Load of 10 psf.

Snow Load = 0 psf

Based on the above loading criteria, the proposed equipment layout, industry standards and provisions of the International Residential Code 2018, the existing structural frame will support the load of the new solar system.



Joshua Senecal, P.E.

Firm #21791

252-764-7382

TX PE#130638

11/22/2023

LRSCivilEngineer@gmail.com



- C. Roof Attachment
 - a. All Roof Areas: K2 Systems 44-X Rail
 - Space the K2 Systems Splice Foot XL at 48" on-center in Roof Zones 1, 2e, 2n & 2r.
 - Space the K2 Systems Splice Foot XL at 24" on-center in Roof Zones 3e & 3r.
 - b. Roof Zones are defined as follows:
 - Roof Zone 1: locations not within 3' from any edge or corner.
 - ii. Roof Zone 2r: locations within 3' of a ridge.
 - iii. Roof Zone 2e: locations within 3' of the lower edge.
 - iv. Roof Zone 2n: locations within 3' of the side gable edge.
 - v. Roof Zone 3e: locations within 3' of the lower edge corner.
 - vi. Roof Zone 3r: locations within 3' of a ridge corner.
 - c. "Exposed" and "Non-Exposed" Rails
 - i. The "Exposed" and "Non-Exposed" span values provided on the "Exposure Detail" refer to the allowable K2 Splice Foot spacing based on location of the associated rail with relation to the position of the panel within an array.
 - ii. A panel is considered "Exposed" if one of the following conditions are met:
 - 1. Any panel located within an array that **does not** have an adjacent panel within 48".
 - 2. Any panel that is located greater than 48" and/or a distance greater than half the mean roof height from a ridge or edge.
 - Any panel that is located greater than 1.5 times the panel length (portrait) or 1.5 times the panel width (landscape) from a hip ridge or gable rake.
 - iii. If a panel is considered "Exposed"
 - 1. The "Exposed" span value applies to both rails of the panel.
 - iv. If a panel is considered "Non-Exposed"
 - 1. The "Non-Exposed" span values apply both rails of the panel.
 - v. Exposed panels will be highlighted in red on the "Exposure Detail"
 - d. Structural installation must be completed per Miami-Dade NOA 22-0719.06 and K2 Systems installation manuals. Miami-Dade NOA 22-0719.06 takes precedence.
 - e. Attach the K2 Systems Splice Foot with the two provided stainless steel M5X60mm wood screws with sealing washer.
 - f. Install K2 Butyl gasket between the roof covering system and the K2 Splice Foot.
 - g. Rafter mounting procedure is the only authorized installation method.
 - Stagger anchor points to minimize the occurrence of two adjacent rails being attached to the same structural member.
 - Use only factory provided hardware as directed by the manufacturer's installation manual.
 - j. Maximum cantilever is defined as 1/3 the maximum span length of the 44-X rail in the applicable Roof Zone found on the calculation sheet.



Joshua Senecal, P.E.

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252-764-7382

TX PE#130638

11/22/2023

LRSCivilEngineer@gmail.com



Solar Array Calculation Sheet #231161

Property Address		KINGSVILLE, TX 783		
Ultimate Wind Speed		135 MPH	ATC Hazrds by Location	
Roof Pitch (Degrees)		27		
Roof Type		GABLE		
Exposure Code		c		
Risk Factor		11		
	ASCE7-16 Cita	tion		Figure
Topographical Factor (K _{st})	Sect 26.8.2	1.00	Roof Pitch	20
Exposure Coefficient (K ₂)	Tab 26.10-1	0.85		Portrait
Directional Factor (K _d)	Tab 26.6-1	0.85	Positive GC _p	0.53
Ground Elevation Factor (K _e)	Table 26.9-1	1.00	Zone 1 GC,	-1.50
Exposure Factor (y _E) "Exposed"		1.50	Zone 2e GC,	-1.50
Pressure Equalization Factor (7,)	Figure 29.4-8	0.71 (PORTRAIT)	Zone 2n GC,	-2.50
Pressure Equalization Factor (y _a)	Figure 29.4-8	0.80 (LANDSCAPE	Zone 2r GC _p	-2.50
Mean Roof Height (ft)		15.00	Zone 3e GC,	-2.50
Velocity Pressure (q _H) psf		25.96	Zone 3r GC _p	-2.70
Length of Panel (in)		74.00		
Width of Panel (in)		41.10		
Weight of Panel (lbs)		48.50		
Solar Panel Area (sqft)		21.12		
Array Dead Load (psf)		2.60		
Roof Connection Effective Area (sqf	t)	12.33 at 48" sp	pacing in PORTRIAT	
Roof Connection Effective Area (sqf	t)	6.85 at 48" sp	acing in LANDSCAPE	

	1:12	4.8 deg
	2:12	9.5 deg
	3:12	14 deg
Figure 30.3-2C	4:12	18.4 deg
20 to 27	5:12	22.6 deg
Portrait Landscape	6:12	26.6 deg

https://hazards.atcouncil.org/#/

0.60

-1.50

-1.50

-2.50

-2.50

-2.50

-2.70

1:12	4.8 deg
2:12	9.5 deg
3:12	14 deg
4:12	18.4 deg
5:12	22.6 deg
6:12	26.6 deg
7:12	30.3 deg
8:12	33.7 deg
9:12	36.9 deg
10:12	39.8 deg
11:12	42.5 deg
12:12	45 deg

	Commence (1975)	nd Pressure sf)	Total Pressure (psf)		Connection Point Load (lbs)		Connection Point Load (lbs)		Connection Point Load (lbs)		Max Rail Span	Anchor Spacing
Portrait Orientation	Analytical Method ASCE7-16 Chapter 26		ASC	ASCE7-16		24" On Center Connections		32" On Center Connections		48" On Center Connections		K2 SPLICE FOOT XL
	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(in)	(in)
Zone 1	16.0	-38.9	13.00	-25.94	80.18	-159.98	106.90	-213.30	160.35	-319.95	64"	48"
Exposed	16.0	-58.4	13.00	-39.74	80.18	-245.08	106.90	-326.77	160.35	-490.16	54"	48"
Zone 2e	16.0	-38.9	13.00	-25.94	80.18	-159.98	106.90	-213,30	160.35	-319.95	64"	48"
Exposed	16.0	-58.4	13.00	-39.74	80.18	-245.08	106.90	-326.77	160.35	-490.16	54"	48"
Zone 2n	16.0	-64.9	13.00	-44.34	80.18	-273.45	106.90	-364.60	160.35	-546.89	49"	48"
Exposed	16.0	-97.3	13.00	-67.34	80.18	-415.29	106.90	-553.71	160.35	830.57	40"	32*
Zone 2r	16.0	-64.9	13.00	-44.34	80.18	-273.45	106.90	-364.60	160.35	-546.89	49"	48"
Exposed	16.0	-97.3	13.00	-67.34	80.18	-415.29	106.90	-553.71	160.35	930/57	40"	32"
Zone 3e	16.0	-64.9	13.00	-44.34	80.18	-273.45	106.90	-364.60	160.35	-546.89	49"	48*
Exposed	16.0	-97.3	13.00	-67.34	80.18	-415.29	106.90	-553.71	160.35	830.57	40"	32"
Zone 3r	16.0	-70.1	13.00	-48.02	80.18	-296.14	106.90	-394.85	160.35	-592.28	47"	32"
Exposed	16.0	-105.1	13.00	-72.86	80.18	-449.33	106.90	-599.10	160.35	898.65	38"	32"

		nd Pressure sf)	Total Pre	essure (psf)	100 Per 100 Per 100 Per	ion Point (lbs)	Florida Printers (1977)	n Point Load bs)	C. C	n Point Load bs)	Max Rail Span	Anchor Spacing
Landscape Orientation	100000000000000000000000000000000000000	l Method Chapter 26	ASC	E7-16	(0.000000000000000000000000000000000000	Center	10000000	n Center ections	1555	Center ections	K2 CR 44-X	K2 SPLICE FOOT XL
	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(in)	(in)
Zone 1	16.0	-38.9	14.67	-29.28	50.25	-100.27	67.00	-133.69	100.50	-200.53	64"	48"
Exposed	16.0	-58.4	14.67	-44.85	50.25	-153.61	67.00	-204.81	100.50	-307.21	54"	48"
Zone 2e	16.0	-38.9	14.67	-29.28	50.25	-100.27	67.00	-133.69	100.50	-200.53	64"	48"
Exposed	16.0	-58.4	14.67	-44.85	50.25	-153.61	67.00	-204.81	100.50	-307.21	54"	48"
Zone 2n	16.0	-64.9	14.67	-50.04	50.25	-171.39	67.00	-228.52	100.50	-342.77	49"	48"
Exposed	16.0	-97.3	14.67	-76.00	50.25	-260.29	67.00	-347.05	100.50	-520.57	40"	32"
Zone 2r	16.0	-64.9	14.67	-50.04	50.25	-171.39	67.00	-228.52	100.50	-342.77	49"	48"
Exposed	16.0	-97.3	14.67	-76.00	50.25	-260.29	67.00	-347.05	100.50	-520.57	40"	32"
Zone 3e	16.0	-64.9	14.67	-50.04	50.25	-171.39	67.00	-228.52	100.50	-342.77	49"	48"
Exposed	16.0	-97.3	14.67	-76.00	50.25	-260.29	67.00	-347.05	100.50	-520.57	40"	32"
Zone 3r	16.0	-70.1	14.67	-54.19	50.25	-185.61	67.00	-247.48	100.50	-371.22	47"	32"
Exposed	16.0	-105.1	14.67	-82.23	50.25	-281.62	67.00	-375.49	100.50	-563.24	38"	32"

CALCULATIONS PROPAGED BY: JOSHUA SENECAL, P.E. TX PE #130638

LRS ENGINEERING TX FIRM #21791

11/20/2023

A This is a beta release of the new ATC Hazards by Location website. Please contact us with feedback.

The ATC Hazards by Location website will not be updated to support ASCE 7-22. Find out why.

ATC Hazards by Location

Search Information

620 W Richard Ave, Kingsville, TX 78363, USA

Coordinates:

27.521885, -97.87579530000001

Elevation:

Timestamp:

2023-11-20T21:58:28.632Z

Hazard Type:

Wind



ASCE 7-05

ASCE 7-05 Wind Speed

You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.

A 113 mph

Risk Category III	▲ 144 mph	Risk Category III-IV	▲ 144 mph
You are in a wind-borne debris reg within 1 mile of the coastal mean h	AND ADDRESS OF THE PARTY OF THE	You are in a wind-borne debri within 1 mile of the coastal me	Control of the Contro
Risk Category II	▲ 135 mph	Risk Category II	▲ 135 mph
Risk Category I	127 mph	Risk Category I	127 mph
MRI 100-Year	112 mph	MRI 100-Year	112 mph
MRI 50-Year	101 mph	MRI 50-Year	102 mph
MRI 25-Year	88 mph	MRI 25-Year	91 mph
MRI 10-Year	75 mph	MRI 10-Year	76 mph
ASCE 7-16		ASCE 7-10	

If the structure under consideration is a healthcare facility and you are also within 1 mile of the coastal mean high water line, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-borne debris

facility and you are also within 1 mile of the coastal mean high water line, you are in a wind-borne debris region, if other occupancy, use the Risk Category !! basic wind speed contours to determine if you are in a wind-borne debris region.

If the structure under consideration is a healthcare

Risk Category IV

A 149 moh

You are in a wind-borne debris region.

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Please note that the ATC Hazards by Location website will not be updated to support ASCE 7-22. Find out why.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area - in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher, NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris region.

Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.

While the information presented on this website is believed to be correct, ATC and its sponsors and contributors assume no responsibility or liability for its accuracy. The material presented in the report should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. ATC does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the report provided by this website. Users of the information from this website assume all liability arising from such use. Use of the output of this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the report.

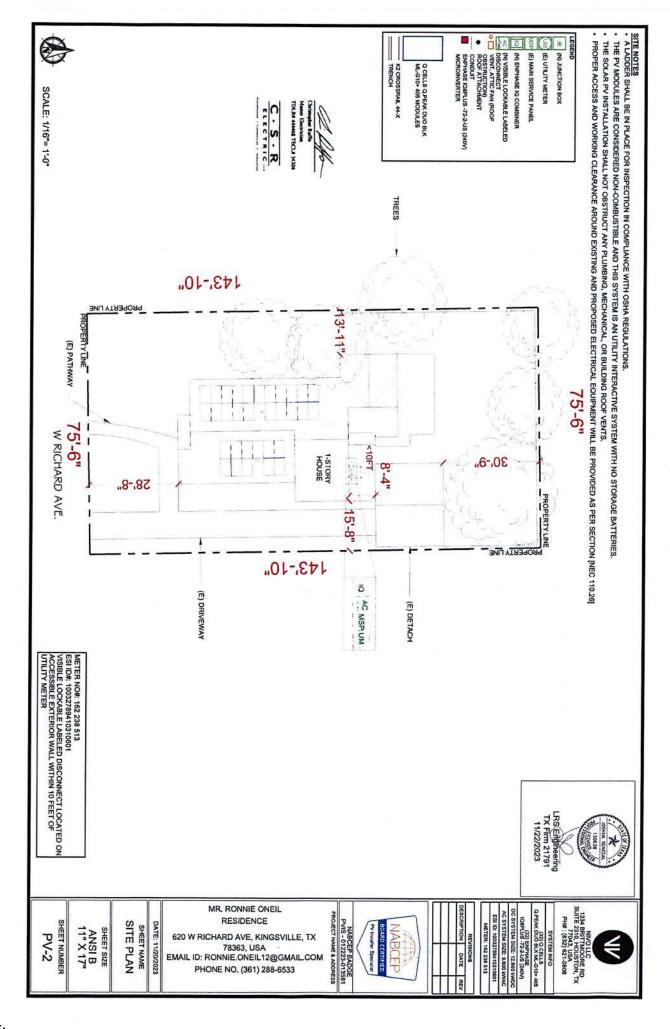
SCOPE OF WORK

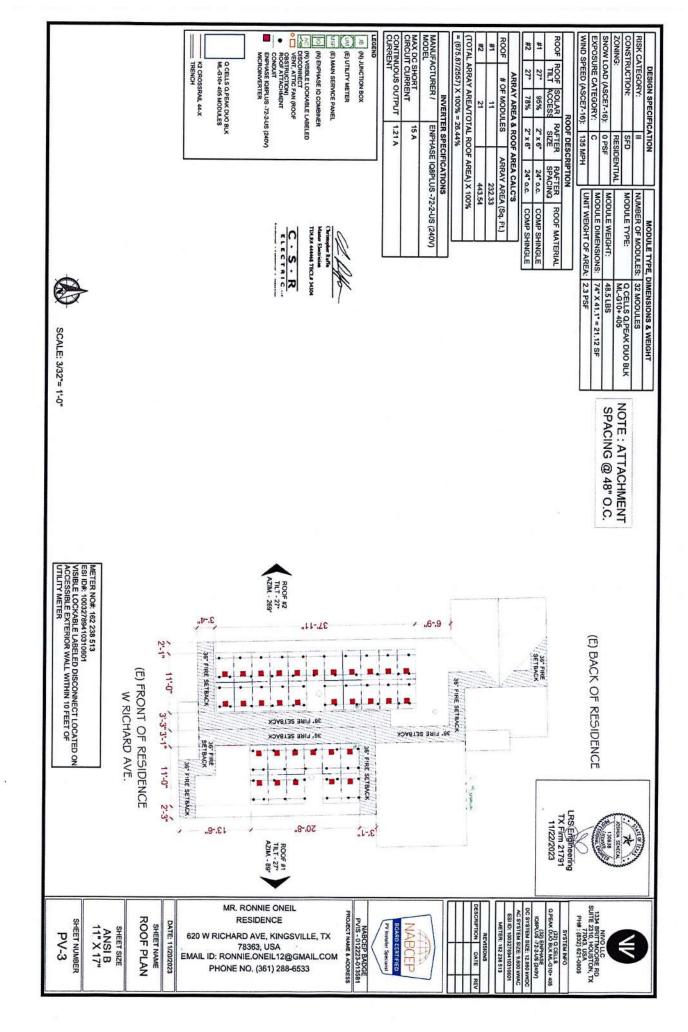
SCOPE OF WORK

TO INSTALL A ROOF MOUNTED SOLAR PHOTOVOLTAIC SYSTEM AT THE OWNER RESIDENCE
TO INSTALL A ROOF MOUNTED SOLAR PHOTOVOLTAIC SYSTEM AT THE OWNER RESIDENCE
LOCATED AT 850 W RICHARD AVE, KINGSYILLE, TX 78363, USA,
THE POWER GENERATED BY THE EY SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY
GRID THROUGH THE EXISTING ELECTRICAL SERVICE EQUIPMENT.
THE PY SYSTEM DOES NOT INCLUDE STORAGE BATTERIES. ELECTRICAL NOTES

ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION. GENERAL NOTES

THESE CONSTRUCTION DOCUMENTS HAVE BEEN BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS 32 ENPHASE IQBPLUS -72-2-US (240V) MICROINVERTERS 32 Q CELLS Q.PEAK DUO BLK ML-G10+ 405 MODULES MODULE SUPPORT RAIL SHALL BE BONDED TO THE MODULE CONTRACTOR HAS THE FULL RESPONSIBILITY TO CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS, ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK ANY WORK STARTED BEFORE CONSULTATION AND ACCEPTANCE BY THE ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CORRECTION BY THEM WITHOUT ADDITIONAL COMPENSATION. **EQUIPMENT SUMMARY** MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURERS INSTRUCTION. ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE. WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY. WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26. WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY. ALL CONDUCTORS SHALL BE COPPER, RATED FOR $600~\mathrm{V}$ AND $90~\mathrm{DEGREE}$ C WET ENVIRONMENT. CONTRACTORS SHALL OBTAIN FIRE CERTIF. UPON COMPLETION OF WORK THE CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, AFFIDAVITS, CERTIFICATIONS, ETC. AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITIES. DAMAGE CAUSED TO THE EXISTING STRUCTURE. PIPES, DUCTS, WINDOWS, WALL, FLOORS, ETC. SHALL BE REPAIRED TO THE ORIGINAL CONDITION OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST. THE CONTRACTOR SHALL PERFORM THE WORK IN STRICT CONFORMANCE WITH THE LOCAL LAWS, REGULATIONS AND THE NATIONAL ELECTRIC CODE. IT IS ESSENTIAL THAT ALL WORK PROCEED WITH THE MAXIMUM COOPERATION OF ALL PARTIES AND WITH MINIMUM INTERFERENCE TO THE OCCUPANTS WITHIN THE BUILDING. THE OWNER'S DIRECTIONS IN THIS REGARD SHALL BE FULLY COMPLED WITH. ALL WORKMANISHIP AND MATERIALS SHALL BE OF FIRST QUALITY AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL BUILDING CODE. THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ALL PERTINENT AGENCIES. CONTRACTOR SHALL OBTAIN BULDING PERMIT. NO WORK TO START UNLESS BUILDING PERMIT IS PROPERLY DISPLAYED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK WITH APPROVED MATERIALS. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, OBTAIN ALL PERMITS, LICENSES AND PAY ALL REQUIRED FEES AND COMPLETE INSTALLATION. 2018 INTERNATIONAL RESIDENTIAL CODE 2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRICAL CODE **VOLTAGE DROP LIMITED TO 2%** VIRING AND CONDUIT NOTES
ALL CONDUIT SIZES AND TYPES SHALL BE LISTED FOR ITS PURPOSE AND APPROVAL FOR THE SITE APPLICATIONS **GOVERNING CODES** AHJ NAME: KINGSVILLE CITY A-WIRE DELTA CONNECTED SYSTEMS HAVE THE PHASE WITH THE HIGHER VOLTAGE TO GROUND MARKED ORANGE OR IDENTIFIED BY OTHER EFFECTIVE MEANS EXPOSED ROOF PV DC CONDUCTORS SHALL BE USE-2, 90°C RATED, WET AND UV RESISTANT, AND UL LISTED RATED FOR 600Y, UV RATED SPIRAL WRAP SHALL BE USED TO PROTECT WIRE FROM SHARP EDGES AC CONDUCTORS >4AWG COLOR CODED OR MARKED: PHASE A OR L1- BLACK, PHASE B OR L2- RED, PHASE C OR L3- BLUE, NEUTRAL- WHITE/GRAY ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE CIRCUIT PROTECTION PHASE AND NEUTRAL CONDUCTORS SHALL BE DUAL RATED THHNITHWIN-2 INSULATED, 90°C RATED, WET AND UV RESISTANT, RATED FOR 1000V AS PER APPLICABLE NEC ALL PV DC CONDUCTORS IN CONDUIT EXPOSED TO SUNLIGHT SHALL BE DERATED ACCORDING TO AS PER LATEST NEC CODE. ALL PV CARLES AND HOMERUN WIRES BE #IOAWIG "USE-2, PV WIRE, OR PROPRIETARY SOLAR CABLUS SPECIFIED BY WIRE, OR EQUIVALENT; ROUTED TO SOURCE CIRCUIT COMBINER BOXES AS REQUIRED C · S · R TDLR# 44468 TBCL# 34306 VICINITY MAP Google PROJECT SITE Thompson Park (3) University Texas A&M Kingsville TDI COMPLIANT DESIGN
IRC 2018 CHAPTER 3 WIND REQUIREMENTS ONLY
ASCE7-16, EXPOSURE CATEGORY C, RISK FACTOR II
ULTIMATE DESIGN WIND SPEED = 135 MPH Kingsville 1355 2045 SCALE: NTS (i) HOUSE PHOTO 12.960 KWDC SYSTEM RATING V11-PV15 249-PV10 PV5-PV6 9.600 KWAC Google PV8 PV7 PV4 PV3 P 2 **EQUIPMENT SPECIFICATIONS** ELECTRICAL LINE & CALCS. SPECIFICATIONS & NOTES STRING LAYOUT & BOM ATTACHMENT DETAILS HEET INDEX H COVER PAGE ROOF PLAN SITE PLAN TX Firm 2179 11/22/2023 1334 BRITTMOORE RD SUITE 2310, HOUSTON, TX 77043, USA PH#: (832) 621-0806 MR. RONNIE ONEIL Q.PEAK DUO BLK ML-G10+ 405 DC SYSTEM SIZE: 12.960 SCRIPTION DATE NO SYSTEM SIZE: 9.800 KWAG COVER PAGE (32) ENPHASE 108PLUS -72-2-US (240V) SHEET NUMBER NABCEP BADGE PVIS - 012223-013581 METER: 162 238 513 DATE: 11/20/2023 ANSI B 11" X 17" PV Installer Specialist SHEET NAME JECT NAME & ADDRESS NABCEP SHEET SIZE PV-1 SYSTEM INFO 620 W RICHARD AVE, KINGSVILLE, TX 78363, USA EMAIL ID: RONNIE.ONEIL12@GMAIL.COM € PHONE NO. (361) 288-6533









CITY of KINGSVILLE DOWNTOWN



HISTORIC DEVELOPMENT BOARD

DATE:

January 5, 2024

TO:

Historic Development Board

FROM:

Kobby Agyekum (Senior Planner/HPO)

SUBJECT:

Discuss and Consider Action to replace 4 windows and siding on a property, on

ORIG TOWN, BLOCK 5, LOT 5 also known as 209 East Santa Gertrudis Avenue.

Kingsville Texas 78363

APPLICANT:

Ephraim Reliford, Mr.

CONTRACTOR: Ephraim Reliford, Mr.

REQUEST

Discuss and Consider Action to replace 4 windows and siding on a property, on ORIG TOWN, BLOCK 5, LOT 5 also known as 209 East Santa Gertrudis Avenue, Kingsville Texas 78363

EXHIBITS

Application, 2022 Appraisal Roll, Kleberg County Appraisal District Information details, Data from Texas Historical Commission (Historic Resources Survey Form), Engineer's letter, Authorization letter, Drawings, and illustrations.

BACKGROUND & PERTINENT DATA

This is a 1945, One-story residential building with front-gabled roof, wood-framed sash windows, asbestos siding. The original front porch was closed in and entry moved to the side; original porch has its own lower front-gabled roof, located within the Historic District. This property is considered contributing to the historic district with low priority for preservation but has a potential to improve the overall character of the area.

STAFF REVIEW & RECOMMENDATION

Staff has reviewed the application and found same to be in conformity with aesthetic and overall curb appeal that it is in conformity to the Standards of the Secretary of the Interior. Consequently, the staff recommend the approval of installation of 4 windows and siding and any other exterior renovations of the property at 209 East Santa Gertrudis Avenue as there would be no adverse impact to the historic. cultural, or architectural nature of the district.

BOARD REVIEW

Scope of Historical Development Board

In general, Historical Development Board considers the following factors when making a recommendation concerning the issuing of a permit for the construction, reconstruction, alteration, restoration, relocation, demolition or razing of all or part of any building, structure or appurtenance within a historic district:

1) The effect of the proposed change upon the general historic, cultural and architectural nature of the district.

- The appropriateness of exterior architectural features which can be seen from a public street, alley, road, highway or walkway.
- 3) The general design, arrangement, texture, material and color of the building, structure or appurtenances and the relation of such factors to similar features of buildings, structures or appurtenances in the district. The criterion shall not be the aesthetic appeal to the Board of the structure or the proposed remodeling, but rather its' conformity to the general character of the particular historic area involved.
- 4) Signs which are out of keeping with the character of the historic district in question shall not be permitted.
- 5) The value of the historic district as an area of unique interest and character shall not be impaired.

Standards of the Secretary of the Interior

- 1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.
- 2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
- Each property shall be recognized as a physical record of its time, place, and use. Changes that
 create a false sense of historical development, such as adding conjectural features or
 architectural elements from other buildings, shall not be undertaken.
- Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.
- 5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.
- Deteriorated historic features shall be repaired rather than replaced. Where the severity of
 deterioration requires replacement of a distinctive feature, the new feature shall match the old in
 design, color, texture, and other visual qualities and, where possible, materials. Replacement of
 missing features shall be substantiated by documentary, physical, or pictorial evidence.
- Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.
- 8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.
- 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.

SIGNATURES

Kobby Agyekum Senior Planner/HPO

Historical Development Board Review Application

Applicant: EPhrain Reliford JR
Address: 209 E. Santa GratiTude
Contact: Cell: 361-522-0051 Home:
Email: ephrainr@ Icloud.com
Property Owner: Ephraly Reliford JR
Address: P.O. BOX 464, Kingsville TX. 78364
Contact: Cell: 361-522-0051 Home:
Property Location and Description: 209 E. Santa Gratitude
Kinssville TX. 78363
Description of Work: replace slding and windows (4),
Contractor: EPhrain Reliford
Contact: Cell: 361-522-005/ Home:
Email: Phrainr@ I cloud, com
Documents Required:
 Sketch, Drawing, Plans, Site Plans, Mock-ups Photographs (Historic, Current, Surrounding Structures) Materials List or Samples Proof of Ownership Letter of Representation and Work Approval from Property Owner (If Applicable)
I certify that this information and the additional information submitted to the Planning Department is correct and that the work will be completed as described, as approved by the Historical Development Board and in accordance with applicable codes. (Applicant) Print Name: Februara Relifered JR
(Applicant) Print Name: FPhrain Beliford JR Signature: JR Reliford Date: 4 January 2024

Kleberg CAD

Property Search > 18949 RELIFORD EPHRAIN JR Tax Year: 2024 - Values not available for Year 2024

Property

Account

Property ID:

18949

Legal Description: ORIG TOWN, BLOCK 5, LOT 5

Geographic ID:

100100505000192

Zoning:

Type:

Real

Agent Code:

Property Use Code:

Property Use Description:

Location

Address:

209 E SANTA GERTRUDIS

Mapsco:

Neighborhood:

Neighborhood CD:

Map ID:

C1

Owner

Name:

RELIFORD EPHRAIN JR

Owner ID:

71552

Mailing Address:

PO BOX 464

KINGSVILLE, TX 78364-0464

% Ownership:

100.0000000000%

Exemptions:

Values

(+) Improvement Homesite Value:

N/A

(+) Improvement Non-Homesite Value:

N/A

N/A

(+) Land Homesite Value:

(+) Land Non-Homesite Value:

N/A

Ag / Timber Use Value

(+) Agricultural Market Valuation:

N/A

N/A

(+) Timber Market Valuation:

N/A

N/A

(=) Market Value:

+

N/A

(-) Ag or Timber Use Value Reduction:

N/A

(=) Appraised Value:

N/A

(-) HS Cap:

N/A

(=) Assessed Value:

N/A

Taxing Jurisdiction

Owner:

RELIFORD EPHRAIN JR

% Ownership: 100.000000000%

Total Value:

N/A

Entity	Description	Tax Rate	Appraised Value	Taxable Value	Estimated Tax
GKL	KLEBERG COUNTY	N/A	N/A	N/A	N/A
SKI	KINGSVILLE I.S.D.	N/A	N/A	N/A	N/A
	Total Tax Rate:	N/A			
			Taxes	w/Current Exemptions:	N/A
			Taxes	w/o Exemptions:	N/A

Improvement / Building

Improvemen	nt #1: RESIDENTIAL State Code:	A1	Living Area:	840.0 sqft	Value: N/A
Туре	Description	Class CD	Exterior Wall	Year Built	SQFT
MA	MAIN AREA	FF3	EWT,EW5	1945	840.0
OPFA	OPEN PORCH FRAME AVERAGE	*		1945	28.0
OPFA	OPEN PORCH FRAME AVERAGE	*		1945	60.0
STPP	STORAGE (CONSIDERED PP)	FV		0	48.0

Land

#	Type	Description	Acres	Sqft	Eff Front	Eff Depth	Market Value	Prod. Value
	A1			3500.00		140.00	N/A	N/A

Roll Value History

Year	Improvements	Land Market	Ag Valuation	Appraised	HS Cap	Assessed
2024	N/A	N/A	N/A	N/A	N/A	N/A
2023	N/A	N/A	N/A	N/A	N/A	N/A
2022	\$26,080	\$1,750	0	27,830	\$0	\$27,830
2021	\$11,910	\$1,750	0	13,660	\$0	\$13,660
2020	\$13,450	\$1,750	0	15,200	\$0	\$15,200
2019	\$13,450	\$1,750	0	15,200	\$0	\$15,200
2018	\$13,370	\$1,750	0	15,120	\$0	\$15,120
2017	\$13,370	\$1,750	0	15,120	\$0	\$15,120
2016	\$13,370	\$1,750	0	15,120	\$0	\$15,120
2015	\$15,270	\$1,750	0	17,020	\$0	\$17,020
2014	\$15,270	\$1,750	0	17,020	\$0	\$17,020
2013	\$15,270	\$1,750	0	17,020	\$0	\$17,020
2012	\$17,180	\$1,750	0	18,930	\$0	\$18,930
2011	\$17,180	\$1,750	0	18,930	\$0	\$18,930
2010	\$17,180	\$1,750	0	18,930	\$0	\$18,930

TEXAS HISTORI	CAL COMMISSION	23
Project #: 00009 Historic Resou County: Kleburg Address No: 209 Street Name: East Sant	Ci	Id: 0001-18949 ity: Kingsville
SECTION 1		
Basic Inventory Information		
Current Name: Historic Name:		
Owner Information Name: Flores Hortencia M.	Status:	
Address: 626 North 6th St City: Kingsville	State: TX	Zip: 78363
Geographic Location Latitude: 27.522622 Legal Description (Lot\Block): ORIG TOWN, BLOCK 5, LOT	Longitude: -97.867274	
Addition/Subdivision:	Yea	r:
Property Type Building Current Designations: □ NR District Is property contr □ NHL □ NR □ RTHL □ OTHM □ HTC □	ibuting? SAL Local Other	
Architect: Contruction Date: 1945	Builder Source Tax Appraiser	
Function	тах укругалас.	
Current: DOMESTIC-Single Dwelling		
Historic: DOMESTIC-Single Dwelling		





TEXAS HISTORICAL COMMISSION

Project #:	00009		Historic	Resources Survey Form	Local Id:	0001-18949
County:	Kleburg				City:	Kingsville
Address No:	209		Street Name:	East Santa Gertrudis Avenue		
SECTION 2	2					
O HIN OUR PROPERTY OF STREET,	ral Description	445 SYN				
One-story resi and entry mov	dential building red to the side;	with front- original po	-gabled roof, wo orch has its own	ood-framed sash windows, asbestos siding. lower front-gabled roof.	Original front	porch was closed in
✓ Additions,	modifcations	Explain:	modified entry	8		
Relocated		Explain:				
Stylistic Inf	luence					
No Style						
Structural D	Details					
Roof Form						
Front-Gabled						
Roof Mater	rials					
Composition	Shingles					
Wall Materi	ials					
Asbestos						
Windows						
Wood sash						
Doors (Prin	nary Entranc	е				
Composition	Shingles					
Plan						
Rectangular			390			
Chimneys						
Porches/Ca	anopies	29				
FORM						
SUPPORT						
MATERIAL						
ANCILLARY B	UILDINGS:					
Garage:		Ва	arn:	Shed:	Other:	
Landscape	Footures	Galancia de Trace				

SAL DISTRICT R OWNER ID	SRNATION 2022 Endles	Walues 18.00
ORIG TOWN, BLOCK 5, LOT 5 OWNERSHIP KINGSVILLE, TX 78363-4504 100.00%	CKI 100% GKL 100% I363-4504 SKI 100% WST 100%	= 27.83
100100505000192 Ref ID2: R18949 ACRES:		APPRAISED VALUE = 27,830
		HS CAP LOSS . 0
SITUS ZUBE SANTA GERT RUDIS APPR VAL METHOD: Cost SITUS ZUBE SANTA GERTERAL): Cost	ASSESSED VALUE = 27,830
LAST APPR. IE/AM/TM NPHY LAST APPR. YR 2022 DESS PAVED, CURB & GLAST INSP. DATE 06/22/2022		
SON	41	PIOTURE
REMARKS FOR 2022 NC - PROCESS PER SCHEDULES PER IEJAWTM 6/22/22 MMG FOR 2022 UPDATE ACCT - ADD PHY % PER CT 3/1/22 3/3/22 JO FOR 2019 UPDATE APPRAISALS		
ISSUE DT PERMIT AREA ST PERMIT VAL	영 상사 영	
SALE DT PRICE GRANTOR DEED INFO 07/10/2014 ***** PLORES HORTENCIADEATH / / 05/01/1984 ***** UNKNOWN OT / 452 / 283	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
SUBD S001 100 00% NBHD S001 1MBROWENE NECESSARYTICAL		
RICEUNITS BULL EFE 0.33 1 1945 1985 12.07 1 1945 1985 12.07 1 1945 1985 0.00 1 1966 Hornesite: N	B PHYS ECON EUNC COMP ADJ VALUE 6 90% 100% 100% 100% 0.50 25.540 8 90% 100% 100% 100% 0.50 370 8 90% 100% 100% 100% 0.50 370 90% 100% 100% 100% 100% 0.50 370	
		-
SUBD: \$0.017		AG CLASS AG TABLE AG UNIT PRO AG VALUE:

Page 1 of 1

Effective Date of Appraisal: January 1 Date Printed: 03/07/2023 10:53:50AM by VICKI

1,750

Effective date; January 1, 2018

For Detached One-and Two family dwellings and Multiple Single-Family Dwellings (Townhouses) with Mean Roof Height ≤ 30 feet
Wind 170 mph (3-second gust) / Exposure C** / Kd = 0.85 / Kzt = 1.0 / Pressures are in PSF / Not for use in Coastal (Exposure 'D' areas)
* Using Allowable Stress Design methodology (P = 0.6w) / ** Exposure shall be determined according to ASCE 7-10 Section 26.7.3 (Exposure Categories) Per ASCE 7-10 Method 1, Part 1 and FBC (2017) for Retrofiting in Accordance with Formal Interpretation #5

******			-	5	Mean noon neight of 13	la leet	-	=	INEGII VOOI DEIKII OI VOI IEEL		23 57	i aa		Mea	n Roof	Mean Roof Height of 25 feet	of 25 fee			Mean Roof Height of 30 feet	oof He	ight of 3	O feet	
_	Cable or Hin			Zone	91					Zone			-			Zone					Zone	96		
Area	den in allen	1		7		3		1	_	7	-	8	_	-	_	7		3			2		3	
(ft²)	LOON	+	1	+	1	+	,	+	1	ŀ	•	-	+	Ľ	+	1	+	1	+	,	+	,	+	1
10	Gable/Hip	16.0	-37.8	16.0	-63.4	16.0	-95.4	16.3	-40.2	16.3 -6	-67.4 16	16.3 -101.4	1.4 17.1	1 -42.1	1 17.1	1 -70.6	17.1	-106.3	17.8	43.7	17.8	-73.4	17.8	-110.4
20	Roof		-36.8	16.0	-56.7	16.0	-79.1	16.0	-39.1 16	16.0 -6	-60.2 16	16.0 -84.0	.0 16.0	.0 -41.0	0.91 0.	0 -63.1	16.0			-42.6	-	-	_	-91.5
20	9 ≤ 7°	16.0	-35.6	16.0	-47.7	16.0	-57.4	16.0	-37.8 16	16.0 -5	-50.7 16.	16.0 -61.0	.0 16.0	9.68- 0.	.6 16.0	0 -53.2	16.0	-63.9	16.0	-41.1	16.0	-55.2	16.0	-66.4
100	(0 to 1.5:12)	16.0	-34.6	16.0	-41.0	16.0	-41.0	16.0	-36.8 16	16.0 -4	-43.6 16.	16.0 -43.6	.6 16.0	.0 -38.5	.5 16.0	0 -45.7	16.0	-45.7	16.0	-40.0	16.0	-47.4	-	-47.4
10	Gable/Hip	21.8	-34.6 2	21.8	-60.2	21.8	0.68-	23.1	-36.8 23	23.1 -6	-64.0 23.1	.1 -94.6	.6 24.3	.3 -38.5	.5 24.3	3 -67.1	24.3	-99.2	25.2	-40.0	•			-103.0
20	Roof***		-33.6	19.9	-55.4	19.9	-83.3	21.1	-35.7 23	21.1 -58	-58.9 21.1	.1 -88.5	.5 22.1	1 -37.4	4 22.1	_	22.1		_	_		-		-96.3
20	7° < 8 ≤ 27°	17.3	-32.4 1	17.3	-49.0	17.3	-75.6	18.4	-34.4 18	18.4 -5.	-52.1 18.4	.4 -80.3	.3 19.3	.3 -36.0	.0 19.3	3 -54.6	19.3	-84.2	20.0	-37.4	20.0	-56.7	20.0	-87.5
100	(1.5 to 6:12)	16.0	-31.4	16.0	-44.2	16.0	8.69-	16.3	-33.3 16	16.3 -4	-47.0 16.3	.3 -74.2	.2 17.1	.1 -35.0	.0 17.1	1 -49.2	17.1	-77.8	_	-	_	_		-80.8
10	Gable Boof	34.6	-37.8 3	34.6	-44.2	34.6	-44.2	36.8	-40.2 36	36.8 -4	-47.0 36.8	.8 -47.0	.0 38.5	.5 -42.1	.1 38.5	5 -49.2	38.5	-49.2	40.0	-43.7	40.0	_		-51.1
	370 C D C AEB	33.6	-35.9 3.	33.6	-42.3	33.6	-42.3	35.7	-38.1 35	35.7 -4	-44.9 35.7	7 -44.9	.9 37.4	4 -39.9	9 37.4	4 -47.1	37.4	-47.1	38.9	-41.5	_	+	_	48.9
	(6 to 12:12)	32.4	-33.3 3.	32.4	-39.7	32.4	-39.7	34.4	-35.4 34	34.4 -4.	-42.2 34.4	4 -42.2	.2 36.0	.0 -37.1	1 36.0	0 -44.2	36.0	-44.2	37.4	-38.6	37.4	-46.0	37.4	46.0
100		31.4	-31.4 3	31.4	-37.8	31.4	-37.8	33.3	-33.3 33	33.3 -4(-40.2 33.3	.3 -40.2	.2 35.0	0.35.0	0.35.0	0 -42.1	35.0	-42.1	36.3	-36.3	36.3	-43.7	36.3	-43.7
		***	*** For Hip Roofs with angle	Soofs	with ang	3le > 7 c	legrees	(1.5:12	and ≤ 2	5 degre	es (5.5:1	12), Zon	e 3 shal	Il be tre	ated as	> 7 degrees (1.5:12) and ≤ 25 degrees (5.5:12), Zone 3 shall be treated as Zone 2 (Figure 30.4-28, Note 7, p. 337)	Figure 3	0.4-28,	Note 7,	p. 337)	1	4	4	
Effective		-	Mean Roof Height of 15 fo	of Hei	ght of 1	.5 feet		2	Mean Roof Height of 20 feet	of Heigh	t of 20 f	eet	H	Mea	n Roof	Mean Roof Height of 25 feet	f 25 fee		Ĺ	Mean Roof Height of 30 feet	oof Hei	ght of 3	0 feet	
Wind	location			Zone	Je				Annual March	Zone						Zone					Zone	e.		
Area		4		2	T		_	4		s	T		Н	4	Н	2			4		S			
Œ,	1	+	1	+	1			+	1		,		+	1	+	1			+	1	+	1		
92		_	\rightarrow	_	-50.6			40.2	-43.6 40	_	-53.8		42.1	1 -45.7	7 42.1	1 -56.4			43.7	47.4	43.7	-58.6		
20			_	_	-47.2			_	\rightarrow		-50.1		40.2	2 -43.8	8 40.2	2 -52.6	ggg)		41.8	-45.5	41.8	-54.6		
20	Wall			_	-42.7			36.0	-39.4 36	36.0 -4	-45.4		37.7	7 -41.3	3 37.7	7 -47.5			39.2	-42.9	39.2	-49.4		
100		32.1	-35.3 3.	\rightarrow	-39.3		1,614	34.1	-37.5 34	34.1 -43	-41.7		35.8	8 -39.4	4 35.8	8 -43.8			37.2	-40.9	37.2	-45.5		
200		28.2 -31.4	31.4 2	28.2	-31.4			29.9	-33.3 29	29.9	-33.3		31.4	4 -35.0	0 31.4	4 -35.0			32.6	-36.3	32.6	-36.3		
•	Garage Door Wind Loads	or Win	d Load	s		8 * *	* +	a a *								*	2500		1/4	١.				
for a Bu	for a Building with 30-foot Mean Roof Height	-foot M	ean Root	f Heig	Ħ	a 3	2.	3	23						+ m	1		1.2	4					
	Exp	Exposure C													+	/	3.1	1	01					
Tables	Tables 1609.7(1) & (2), and Section 1609.3.1	2), and S	ection 16	609.3	1					1	1		1	+			\rangle	//		1	1			+
Effective	Effective Wind Area		1	Wind Load	Load	N	-	~	7	5		4	40	1			2	-	1	- 4	,	-	1	٢
Width	Height	KOOT Angle	L	+	1	- T							7	+			(/		0	4		2	-
8	8		Г	35.2	-39.8					4	+		*			/	(1	•	a +		*	4	
10	10	OI - O		_	-38.2	الن					Gab	Gable Roof					-		7		Hip Roof	Jo		
14	14	negrees		32.3	-36.1 F	or Effec	ctive Wi	nd Area	s betwee	en those	given, v	ralues m	ay be it	nterpola	ted. Ot	For Effective Wind Areas between those given, values may be interpolated. Otherwise use the value associated with the lower Effective Wind Area	use the v	alue ass	ociated	with the	lower	Effectiv	e Wind	Area.
6	7	> 10		38.4	-43.4	End Zoi	ne (a) si	hall be t	he small	er of 10	3% of Lea	ast Hor.	Dist. or	40%0	f Mean	End Zone (a) shall be the smaller of 10% of Least Hor. Dist. or 40% of Mean Roof Height ("h"), but not less than 4% of Least Hor. Dist. or 3 ft.	ght ('h')	, but no	t less th	an 4% o	f Least	Hor. Dis	t. or 3	ı,
16	7	degrees		36.8	-41.0		Ident	ify the 2	one per	the figu	ire or in	formatic	o kq uc	thers. A	uny que	identify the zone per the figure or information by others. Any questionable zone is to be considered the more critical zone.	sone is	to be co	nsidere	d the m	ore cri	tical zor	e.	
Design is ba	Design is based on the 3-second gust (wind velocity) for Risk Category II (general residential & commercial construction) per FBC 1620.2 Broward. These tables not for use with essential facilities or assembly occupancies.	cond gust	(wind ve	locity)	for Risk	Categor	y II (gene	eral resid	ential & c	commerc	cial consti	ruction)	per FBC	1620.2	Broward.	These tal	bles not	for use w	ith essen	itial facili	ties or a	ssembly	occupar	cies.

FBC 6th Edition (2017) Formal Interpretation #5









SERIES 5700

VINYL SIDE-LOAD SINGLE HUNG WINDOW

- + Removable bottom sash
- Industry leading .01 cfm/ft. air infiltration performance
- + 1 1/4" Nail-fin setback for brick veneer construction and select stucco applications
- Sweep lock helps provide a weather-tight seal and added security
- Dual weather-stripping helps block air and water infiltration, keeping harsh elements outside and energy-saving comfort inside
- Versatile half screen* installs easily from inside
- Double insulated glass provides energy saving efficiency. A host of glass options are available, including Low-E coatings and Argon Gas fill for additional efficiency and Energy Star® compliance
- Sloped sill reduces air infiltration and accommodates easy water run-off
- Multi-chambered vinyl lineals improve thermal performance and enhance sound absorbency

- Built-in accessory channels accommodate multiple installation options
- Block and Tackle Balance System for ease of operation
- Fusion-welded frame and sash minimizes water and air infiltration and enhances overall durability
- Removable operable sash makes cleaning a breeze. Also includes full length interlock and bottom weather stripping
- Limited lifetime warranty provides reassuring peace of mind
- Pre-punched integral nail-fin targets proper nail location for quick, easy installation
- Modular sized so that rough opening widths for multiple units are easy to calculate:

5700 Single = 35.5" 5700 Twin = 71.5" 5700 Triple = 107.5"

- + DP Rating R50 (window size tested 36" x 96")
- + Jamb depth: 2.625"

CUSTOM Options

- + Low-E Glass
- + Low-E Glass + Argon Gas
- + Ultra Low-E Glass + Argon Gas
- + 5/8" or 3/4" flat, 5/8" or 1" contoured, 5/8" contoured valance grids available
- + Factory mulling of twins, triples and architectural shapes
- + Custom sizes available
- Safety latch for sash restriction (field applied)
- Paintable or stainable wood jamb extensions (4 9/16" and 6 9/16")



Scan to experience our website.



ENERGY STAR compliance available in all series. Verify product specifics before ordering.

Note: Manufacturer reserves the right to substitute components as necessary for continued product improvement.

- *Screens are not meant to restrain a child from falling through an open window.
- ** Printing process may affect color shown. Please refer to actual window sample when selecting colors.





White













5700 Single Hung Window

Features:

- 1 3/8" Nail-fin setback for brick veneer construction and select stucco applications
- Sweep lock helps provide a weather-tight seal and added security
- · Versatile half screen installs easily from inside
- Double insulated glass provides energy saving efficiency
- Sloped sill reduces air infiltration & accommodates easy water run-off
- · Built-in accessory channels accommodate multiple installation options
- Fusion-welded frame and sash minimizes water and air infiltration and enhances overall durability
- · Limited lifetime warranty provides reassuring peace of mind
- Modular sized so that rough opening widths for multiple units are easy to calculate: 5700 Single = 35.5", 5700 Twin = 71.5", 5700 Triple = 107.5"
- Jamb depth: 2.625"

Custom Options:

- 5/8" or 3/4" flat, 5/8" or 1" contoured, 5/8" contoured valance grids available
- Glass options: Low-E Glass;
 Low-E Glass with Argon Gas;
 Ultra Low-E Argon
- Factory mulling of twins, triples and architectural shapes
- Custom sizes available
- Window Opening Control Device (for fall prevention)

Product Performance:

AAMA 101 Results:

	Window Size	AAMA Rating (psf)	Air (cfm/ft^2)	Water (psf)
	44" x 96"	LC35	0.01	7.52
	36" x 96"	LC50	0.01	7.52
	108" x 72"	R50	0.17	7.52
	84" x 84"	R35	0.02	7.52
•	108" x 84"	R40	0.17	7.52

Product Dimensions:

Vinyl Wall Thickness: 0.062" Glass Thickness: 0.750" Jamb Depth: 2.625" Nail Fin Setback: 1.375"

Rough Opening: Window Width + 1/2"

Window Height + 1/2"

Size Restrictions:

Min: Max: Width 16 7/8" 48" Height 27" 96" (Max. United Inches 126")

