#### U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB No. 1660-0008 Expiration Date: November 30, 2018

## **ELEVATION CERTIFICATE**

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SEC	TION A - PROPERTY INFO				RANCE COMPANY USE
A1. Building Owner's Name				olicy Num	ber:
William and Betz Stein					
<ul> <li>A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.</li> <li>530 Harbor Point Road</li> </ul>				Company NAIC Number:	
City		State	Z	IP Code	
Longboat Key		Florida	3	4228	
A3. Property Description (Lot a Lot 51, Bay Isles Unit No. 1	nd Block Numbers, Tax Parce	el Number, Legal De	escription, etc.)		
A4. Building Use (e.g., Residen	itial, Non-Residential, Addition	n, Accessory, etc.)	Residential		
A5. Latitude/Longitude: Lat. N	27.353040 Long.	W 82.608006	Horizontal Datum:	□ NAD 1	1927 × NAD 1983
A6. Attach at least 2 photograp	hs of the building if the Certifi	cate is being used to	o obtain flood insuran	ce.	
A7. Building Diagram Number	1B				
A8. For a building with a crawls	pace or enclosure(s):				
<ul> <li>a) Square footage of crawl</li> </ul>	space or enclosure(s)	0 sq ft			
b) Number of permanent flo	ood openings in the crawlspa	ce or enclosure(s) w	rithin 1.0 foot above a	djacent gr	ade0
c) Total net area of flood or	penings in A8.b0	sq in			
d) Engineered flood opening	gs? Yes No				
A9. For a building with an attach	ned garage:				
a) Square footage of attach	ned garage 894	sa ft			
	ood openings in the attached		ot above adjacent or	ada	5
	penings in A9.b 185		or above adjacent gre		
d) Engineered flood opening		_ = = = = = = = = = = = = = = = = = = =			
d) Engineered flood openin	igs≀ ⊠ res □ No				
	CTION B - FLOOD INSUR	ANCE RATE MAP	(FIRM) INFORMAT	ION	
B1. NFIP Community Name & C		B2. County Name			B3. State
125126 Longboat Key, Town Of		Sarasota			Florida
B4. Map/Panel B5. Suffix Number		FIRM Panel Effective/	B8. Flood Zone(s)		se Flood Elevation(s)
12115C0126 F	F	Revised Date 4/2016	AE	Floo	ne AO, use Base od Depth)
1211000120	11/04/2010	4/2010	AE	11	
B10. Indicate the source of the	Base Flood Elevation (BFE)	data or base flood de	epth entered in Item E	39:	
	Community Determined				
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 X NAVD 1988 Other/Source:					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes X No					
Designation Date: CBRS OPA					
		_	*		RECEIVED

## **ELEVATION CERTIFICATE**

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 530 Harbor Point Road			Policy Number:
City State Longboat Key Florida	ZIP Co 34228		Company NAIC Number
SECTION C - BUILDING ELEVAT	ION INFORMATIO	ON (SURVEY R	EQUIRED)
C1. Building elevations are based on: ☐ Construction Dra *A new Elevation Certificate will be required when constru  C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V Complete Items C2.a–h below according to the building d Benchmark Utilized: NGS A 715  Indicate elevation datum used for the elevations in items a ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source Datum used for building elevations must be the same as t  a) Top of bottom floor (including basement, crawlspace, or	iwings*	ng Under Constru g is complete. E), AR, AR/A, AR Item A7. In Puer 7.74	AE, AR/A1–A30, AR/AH, AR/AO. to Rico only, enter meters.  Check the measurement used.
b) Top of the next higher floor	or endosare noor).	23 3	
c) Bottom of the lowest horizontal structural member (V z	ones only)	N/A	X feet meters
d) Attached garage (top of slab)	zones only)	8.4	X feet  meters
e) Lowest elevation of machinery or equipment servicing     (Describe type of equipment and location in Comment	the building .	<u>12</u> . <u>9</u>	X feet meters
f) Lowest adjacent (finished) grade next to building (LAG	G) .	<u>7. 1</u>	X feet  meters
g) Highest adjacent (finished) grade next to building (HA	G)	<u>7</u> . <u>8</u>	x feet meters
<ul> <li>h) Lowest adjacent grade at lowest elevation of deck or s structural support</li> </ul>	stairs, including	4. 5	X feet  meters
SECTION D – SURVEYOR, ENG	SINEER, OR ARCI	HITECT CERTIF	ICATION
This certification is to be signed and sealed by a land surveyor of certify that the information on this Certificate represents my be statement may be punishable by fine or imprisonment under 1 Were latitude and longitude in Section A provided by a license	pest efforts to interp 18 U.S. Code, Section	ret the data avail on 1001. —	y law to certify elevation information.  able. I understand that any false  Check here if attachments.
			Check here if attachments.
20 p categories ( an acceptance )	ense Number 5701		and the state of t
Title President Company Name Sampey, Burchett and Knight, Inc.			3 No. 5701
Address 1570 Global Court			5/17/2019 3
City Sta Sarasota Flo	ate orida	ZIP Code 34240	SURVEYOR
Signature Date: J.B. Burchett Digitally signed by J.B. Burchett Date: 2019.08.03 14.45:29-04'00' 05/	ite /17/2019	Telephone (941) 342-0349	
Copy all pages of this Elevation Certificate and all attachments for	or (1) community offi	cial, (2) insurance	agent/company, and (3) building owner.
Comments (including type of equipment and location, per C2(c2 (e), Generator on the right side of the house.  A9, 5 Flood Flap flood vents FFWF12TF-W were used providing		verage each total	ing 1,100 sq. ft. of coverage.

## **ELEVATION CERTIFICATE**

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, Suite, and/o 530 Harbor Point Road	r Bldg. No.) or P.O. Route	e and Box No.	Policy Number:		
City Sta Longboat Key Flo	rida ZIP C		Company NAIC Number		
SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)					
For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.					
<ul><li>E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).</li><li>a) Top of bottom floor (including basement,</li></ul>					
crawlspace, or enclosure) is b) Top of bottom floor (including basement,	,	feet meter			
crawlspace, or enclosure) is  E2. For Building Diagrams 6–9 with permanent flood ope	nings provided in Section	☐ feet ☐ metern A Items 8 and/or			
the next higher floor (elevation C2.b in the diagrams) of the building is		feet meter	s above or below the HAG.		
E3. Attached garage (top of slab) is  E4. Top of platform of machinery and/or equipment		feet meter	s above or below the HAG.		
servicing the building is  E5. Zone AO only: If no flood depth number is available,	is the top of the bottom fl	feet meter			
floodplain management ordinance? Yes N	lo Unknown. The	local official must of	certify this information in Section G.		
SECTION F - PROPERTY OWNE	R (OR OWNER'S REPR	ESENTATIVE) CE	RTIFICATION		
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Sections statements in Sections A	A, B, and E for Zo , B, and E are cor	ne A (without a FEMA-issued or rect to the best of my knowledge.		
Property Owner or Owner's Authorized Representative's I	Name				
Address	City	Sta	ate ZIP Code		
Signature	Date	Те	lephone		
Comments					
¥					
			RECEIVED  Check here if attachments.		

## **ELEVATION CERTIFICATE**

OMB No. 1660-0008 Expiration Date: November 30, 2018

MPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, § 530 Harbor Point Road	Suite, and/or Bldg. No.)	or P.O. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
Longboat Key	Florida	34228	
SECTI	ION G - COMMUNITY I	NFORMATION (OPTIONA	NL)
The local official who is authorized by law or of Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, e	on Certificate. Complete		
	ized by law to certify ele-		ed and sealed by a licensed surveyor, se the source and date of the elevation
G2. A community official completed Second Zone AO.	ction E for a building loca	ated in Zone A (without a F	EMA-issued or community-issued BFE)
G3. The following information (Items G4	I–G10) is provided for co	ommunity floodplain manag	gement purposes.
G4. Permit Number	G5. Date Permit Issu	ued G	Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction	Substantial Improvement	
G8. Elevation of as-built lowest floor (including of the building:	ng basement)		feet meters Datum
G9. BFE or (in Zone AO) depth of flooding a	t the building site:		feet meters Datum
G10. Community's design flood elevation:		□	feet meters Datum
Local Official's Name		Title	
Community Name		Telephone	
Signature		Date	
Comments (including type of equipment and le	ocation, per C2(e), if app	blicable)	
	*		
			RECEIVED
			Check here if attachments.

#### **BUILDING PHOTOGRAPHS**

#### **ELEVATION CERTIFICATE**

See Instructions for Item A6.

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.  Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 530 Harbor Point Road			FOR INSURANCE COMPANY USE Policy Number:	
Longboat Key	Florida	34228		

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One

Photo One Caption Front



Photo Two

Photo Two Caption Flood Flap Flood Vent

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TOW Form Page 5 of 6 AT KEY Planning, Zoning & Building

#### **BUILDING PHOTOGRAPHS**

#### **ELEVATION CERTIFICATE**

Continuation Page

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.	FOR INSURANCE COMPANY USE	
Building Street Address (including Apt. Unit, Suite, and/or Bldg, No.) or P.O. Route and Box No.	Policy Number:	

530 Harbor Point Road

City State Longboat Key Florida ZIP Code 34228

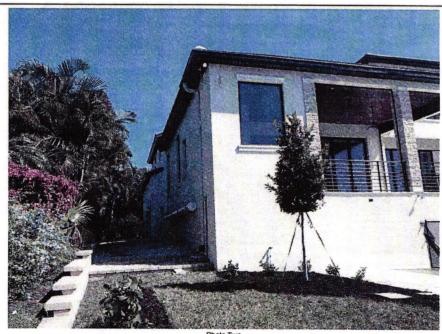
Company NAIC Number

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



Photo One

Photo One Caption Rear



RECEIVED

Photo Two Caption Right Side



# **ICC-ES Evaluation Report**

ICC-ES | (800) 423-6587 | (562) 699-0543 | www.icc-es.org

**ESR-3560** 

Reissued 09/2018
This report is subject to renewal 09/2019.

**DIVISION: 08 00 00—OPENINGS** 

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

#### **REPORT HOLDER:**

FLOOD FLAPS®, LLC

#### **EVALUATION SUBJECT:**

FLOOD FLAPS® AUTOMATIC FLOOD VENTS: MODELS FFWF12; FFNF12; FFWF08; FFNF08; FFWF05; FFNF05



"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"



ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.





## **ICC-ES Evaluation Report**

ESR-3560

Reissued September 2018

This report is subject to renewal September 2019.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

FLOOD FLAPS®, LLC

**EVALUATION SUBJECT:** 

FLOOD FLAPS® AUTOMATIC FLOOD VENTS: MODELS FFWF12; FFNF12; FFWF08; FFNF08; FFWF05; FFNF05

#### 1.0 EVALUATION SCOPE

#### Compliance with the following codes:

- 2018, 2015, 2012 and 2009 International Building Code<sup>®</sup> (IBC)
- 2018, 2015, 2012 and 2009 International Residential Code<sup>®</sup> (IRC)

#### Properties evaluated:

- Physical operation
- Water flow
- Weathering

#### 2.0 USES

Flood Flaps<sup>®</sup> automatic flood vents are used to provide for the equalization of hydrostatic flood forces on exterior walls. Certain models also allow natural ventilation.

#### 3.0 DESCRIPTION

#### 3.1 General:

Flood Flaps<sup>®</sup> automatic flood vents are engineered mechanically operated flood vents (FVs) that automatically allow flood waters to enter and exit enclosed areas. The FVs are constructed of ABS plastic which serves as the FV's housing, and a front grill that contains an anodized metal screen imbedded in polypropylene plastic. On contact with rising flood water, the grill will disengage from its secured position, allowing flood water and debris to flow through in either direction. The FVs are available in two series as described in Section 3.3.

The sealed series models contain two rubber flaps that close the FV to the passage of air when using with conditioned areas or sealed crawl spaces. In the same manner as the grill, the two rubber flaps are pushed open by water pressure, allowing water and debris to flow through the FV in either direction. See Figure 1 for an illustration of the Flood Flaps<sup>®</sup> automatic FV.

#### 3.2 Engineered Opening:

The Flood Flaps® automatic FVs comply with the design principle noted in Sections 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 (2018 and 2015 IBC and IRC) [Section 2.6.2.2 of ASCE/SEI 24-05 (2012 and 2009 IBC and IRC)] for a rate of rise and fall of 5 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Flood Flaps® automatic FVs must be installed in accordance with Section 4.0.

#### 3.3 Flood Vent Series Models:

Flood Flaps<sup>®</sup> automatic FVs are available in two series with multiple models and sizes as described in Table 1. The sealed series models, designated FFWF, include two rubber flaps for the prevention of air flow. The multipurpose series, designated FFNF, omits the rubber flaps.

#### 3.4 Natural Ventilation:

Flood Flaps® automatic FV models FFNF12, FFNF08, FFNF05, and FFNF02 have metal screens with \$^{1}/\_{4}\$ inch by \$^{1}/\_{4}\$ inch (6 mm by 6 mm) openings and provide 37 square inches (0.02 m²) of net free opening to supply natural ventilation for under-floor ventilation. Flood Flaps® automatic FV models FFWF12, FFWF08, and FFWF05 have not been evaluated for use as openings for under-floor ventilation.

#### 4.0 DESIGN AND INSTALLATION

Flood Flaps® automatic FVs are designed to be installed into walls of existing or new construction. Installation of the FVs must be in accordance with the manufacturer's instructions, the applicable code and this report. Flood Flaps® automatic FVs can be installed in wood, masonry and concrete walls up to a thickness of 12 inches (305 mm). In order to comply with the engineered opening design principle noted in Sections 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 (2018 and 2015 IBC and IRC) [Section 2.6.2.2 of ASCE/SEI 24-05 (2012 and 2009 IBC and IRC)], the Flood Flaps® FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 220 square feet (20 m²) of enclosed area.
- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305 mm) above grade.

#### 5.0 CONDITIONS OF USE

The Flood Flaps<sup>®</sup> automatic flood vents described in this report comply with, or are suitable alternatives to what is



specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- **5.1** The Flood Flaps<sup>®</sup> automatic FVs must be installed in accordance with this report, the applicable code and the manufacturer's installation instructions. In the event of a conflict, the instructions in this report govern.
- 5.2 The Flood Flaps<sup>®</sup> automatic FVs must not be used in place of "breakaway walls" in coastal high hazard areas, but are permitted for use in conjunction with breakaway walls in other areas.

#### 6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised October 2017).

#### 7.0 IDENTIFICATION

7.1 The Flood Flaps<sup>®</sup> models recognized in this report are identified by a label bearing the manufacturer's name, the model number, and the evaluation report number (ESR-3560). **7.2** The report holder's contact information is the following:

FLOOD FLAPS<sup>®</sup>, LLC POST OFFICE BOX 1003 ISLE OF PALMS, SOUTH CAROLINA 29451 (843) 881-0190 www.floodflaps.com info@floodflaps.com

TABLE 1—FLOOD FLAP AUTOMATIC FLOOD VENT MODEL SIZES

MODEL NUMBER	MODEL DESIGNATION	ROUGH OPENING (Width X Height) (inches)	VENT SIZE (W X H X D) (inches)	ENCLOSED AREA COVERAGE (ft²)	NET FREE AREA OPENING <sup>1</sup> (in <sup>2</sup> )
FFWF12	Sealed Series	16 x 8	$15^{5}/_{8} \times 7^{3}/_{4} \times 12$	220	NA
FFNF12	Multi-Purpose	16 x 8	15 <sup>5</sup> / <sub>8</sub> X 7 <sup>3</sup> / <sub>4</sub> X 12	220	37
FFWF08	Sealed Series	16 x 8	$15^5/_8 \times 7^3/_4 \times 8$	220	NA
FFNF08	Multi-Purpose	16 x 8	$15^5/_8 \times 7^3/_4 \times 8$	220	37
FFWF05	Sealed Series	16 x 8	$15^5/_8 \times 7^3/_4 \times 5$	220	NA
FFNF05	Multi-Purpose	16 x 8	$15^5/_8 \times 7^3/_4 \times 5$	220	37

For SI: 1 inch = 25.4 mm:  $1 f^{12} = 0.093 m^2$ 

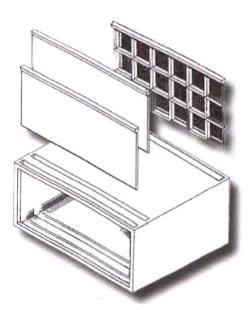


FIGURE 1—FLOOD FLAPS® AUTOMATIC FLOOD VENT

<sup>&</sup>lt;sup>1</sup>For under-floor ventilation only.



FIGURE 2—FLOOD FLAPS® AUTOMATIC FLOOD VENT SERIES MODELS

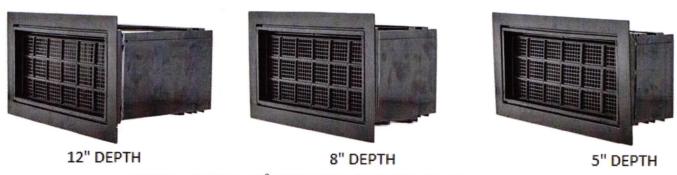


FIGURE 3—FLOOD FLAPS® AUTOMATIC FLOOD VENTS MULTIPLE DEPTH OFFERINGS



## **ICC-ES Evaluation Report**

## **ESR-3560 FBC Supplement**

Reissued September 2018 This report is subject to renewal September 2019.

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A Subsidiary of the International Code Council®

**DIVISION: 08 00 00—OPENINGS** 

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

FLOOD FLAPS®, LLC

**EVALUATION SUBJECT:** 

FLOOD FLAPS® AUTOMATIC FLOOD VENTS: MODELS FFWF12; FFNF12; FFWF08; FFNF08; FFWF05; FFNF05

#### 1.0 REPORT PURPOSE AND SCOPE

#### Purpose:

The purpose of this evaluation report supplement is to indicate that Flood Flaps<sup>®</sup> automatic flood vents, recognized in ICC-ES master evaluation report ESR-3560, have also been evaluated for compliance with the codes noted below.

#### Applicable code editions:

- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

#### 2.0 CONCLUSIONS

The Flood Flaps flood vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3560, comply with the *Florida Building Code—Building and the Florida Building Code—Residential*, provided the design and installation are in accordance with the 2015 *International Building Code*® provisions noted in the master report.

Use of the Flood Flaps flood vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the Florida Building Code—Building and the Florida Building Code—Residential.

For products falling under Florida Rule 9N-3, verification that the report holder's quality-assurance program is audited by a quality-assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official, when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the master report, reissued September 2018.





## TRANSMITTAL FORM

Town of Longboat Key
Planning, Zoning & Building Department
501 Bay Isles Road
Longboat Key, Florida 34228
941-316-1966
941-316-1970 Fax

DATE: 5/28/19	ATTN:	atti		
FROM: Davrel Psk	iby			
Company: John Car	mon Home	2		
Phone: 941-924-5	935 Ema	ii: dashbya	johncannonhomes.co	m
SITE LOCATION/ADDRESS:	530 Harb	or Point Rd	•	
PERMIT NUMBER: PBI	1-0428			
THE FOLLOWING IS SUBMIT	TTED FOR CONSIDE	RATION BY PZB STA	AFF	
☐ RESPONSE TO COMMENTS	8			
REVISIONS / RE-SUBMITTA	ALS			
▼ OTHER:			<u> </u>	
APPLICA	BLE CODES / TRADE	S (Check All That Ap	oply):	
⊠BUILDING / FEMA □ZONING	□ELECTRICAL □GAS VENTING	□HVAC □GAS PIPING	□PLUMBING □FIRE MARSHAL	
ITEMS INCLUDED IN THIS TI	RANSMITTAL:	/ 11		
FEMA elevation	Certificate	V P.F. 6/1/19	-Approved	
Final Survey				
	- <del></del>			
			DECEMED	

MAY 3 1 2019