

ONE FOOT RISE REPORT

Prepared for:

BRYAN ZECHER CONSTRUCTION
CONTACT: BRIAN ZECHER
386.752.8653

1879 SW SISTERS WELCOME ROAD
LAKE CITY, FL

Lot 8, Brothers Welcome Airpark
Section 12, Township 4 South, Range 16 East

Columbia County, Florida

OCTOBER 26, 2024

Prepared by:

Carol Chadwick, P.E.
307.680.1772
ccpewyo@gmail.com



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Carol Chadwick
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CC Job FL24473

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TABLE OF CONTENTS

| | |
|-----------------------------|---|
| Project Description | 2 |
| Analysis | 2 |
| Conclusion | 2 |
| One Foot Rise Certification | 3 |
| Location Map | 4 |
| SRWMD Flood Report | 5 |
| SITE PLAN | 6 |

PROJECT DESCRIPTION

Daniel and Jeanne Decker would like to permit improvements to Lot 8, Brothers Welcome Airpark located in Section 12, Township 4 South, Range 16 East, Columbia County, Florida. The property address is 1879 SW Sisters Welcome Road, Lake City, FL. The parcel number for the property is 1245-16-02935-010.

The permit will be for the construction of a new 24' by 48' residential structure and a 40' by 45' hanger. Due to an abandoned railroad grade, two BFE's are referenced on the lot. Refer to the attached SRWMD Flood Report and the site plan by others. The home and hanger will be located in the area with the BFE of 127.0. The minimum finished floor of the home shall be 128.20 and the finished floor elevation of the hanger shall be 126.70. The hanger shall have a minimum of 7 flood vents. The hanger will not remove any storage capacity from the flood plain. The home, 1152 s.f., will require a limited amount of fill to be placed in the floodplain totaling approximately 1382 s.f. or 51.2 c.y.

ANALYSIS

The area of the Zone AE floodplain in a 200' wide section is 147,852 s.f. or 3.39 acres. The area of the proposed structures is 1152 s.f. The proposed structure is 0.78 percent of the flood plain which will not cause a rise in the base flood elevation.

CONCLUSION

Calculations show no increase in the base flood elevation.

ONE FOOT RISE CERTIFICATION

CAROL CHADWICK, P.E.

Civil Engineer

1208 S.W. Fairfax Glen

Lake City, FL 32025

307.680.1772

ccpewyo@gmail.com

October 26, 2024

ONE FOOT RISE CERTIFICATION

Owner: Daniel & Jeanne Decker

Property Address: 1879 SW Sisters Welcome Road
Lake City, FL

Property Description: Lot 12, Brothers Welcome Airpark
Section 12, Township 4 South, Range 16 East
Columbia County, Florida

Structure in Floodway: 24' x 48' home (min FFE= 128.20)
40' x 45' hanger (FFE= 126.70) w/ 7 min. flood vents – hanger
is not included in the 1' rise calculations because the FFE is
below the BFE and flood vents shall be installed

Elevation of 100-year flood: 127.00 feet (SRWMD Flood Report)

Community Panel: 12023C 0291D (effective date 11/02/2018)

I hereby certify that the construction of the proposed residence and hanger will not obstruct
flow or cause more than a 1.00 foot rise in the 100-year flood elevation of Cannon Creek.

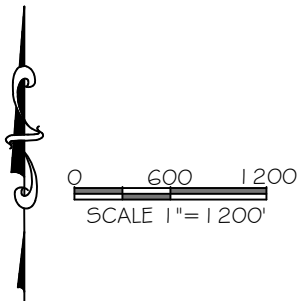
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LOCATION MAP

LOCATION MAP
LOT 8 BROTHERS WELCOME AIRPARK
SECTION 12, TOWNSHIP 4 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FL



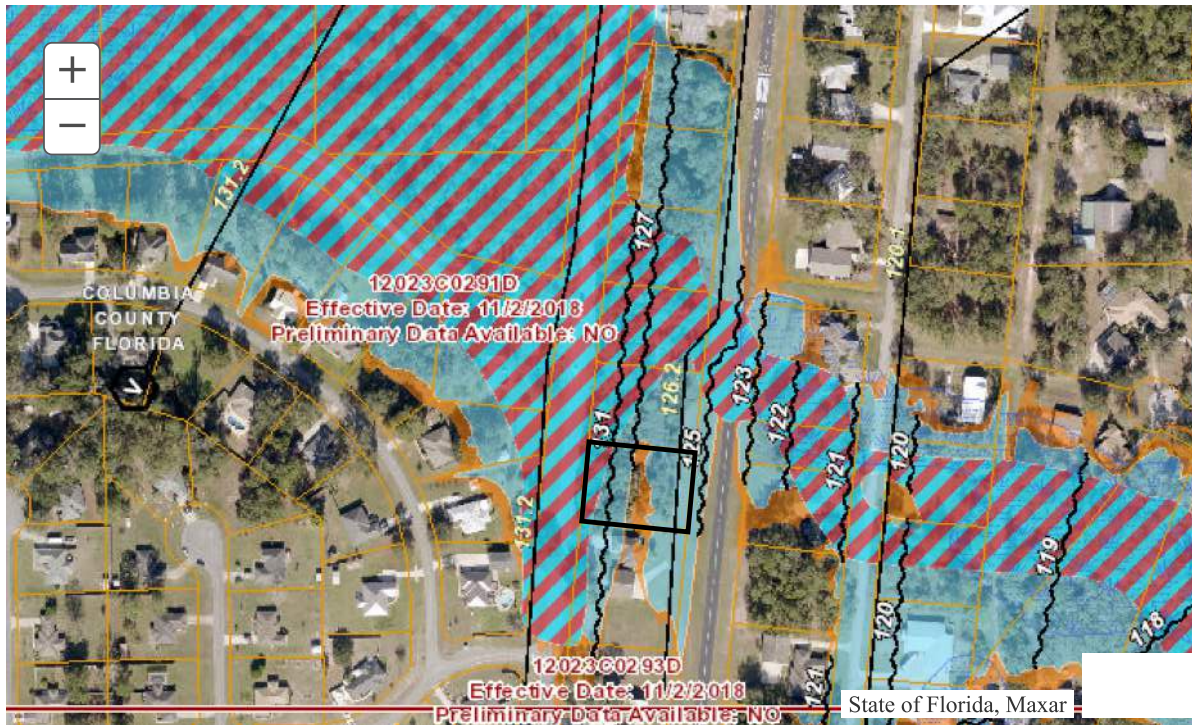
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cn=Carol Chadwick
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| | | | | | | | |
|--|--|---|--|----------------------|--|--------------|--|
| PROJECT NO. FL24473 | | DATE OCT. 15, 2024 | | REVISION DATE | | SHEET 1 OF 1 | |
| LOCATION MAP | | 1879 SW SISTERS WELCOME ROAD | | LAKE CITY, FL | | | |
| PREPARED FOR BRYAN ZECHER HOMES, INC CONTACT: BRYAN ZECHER 386.752.8653 bzecher@comcast.net | | DATE | | REVISION DESCRIPTION | | | |
| CAROL CHADWICK, P.E. 3090 S.W. 17th Ave., Suite 201 Lake City, FL 32025 5148 P.W.M. and Chadwick Inc. CAROL CHADWICK, P.E. 3090 S.W. 17th Ave., Suite 201 Lake City, FL 32025 5148 P.W.M. and Chadwick Inc. CAROL CHADWICK, P.E. 3090 S.W. 17th Ave., Suite 201 Lake City, FL 32025 5148 P.W.M. and Chadwick Inc. | | CAROL CHADWICK LICENSE No. 82560 STATE OF FLORIDA PROFESSIONAL ENGINEER | | | | | |

SRWMD FLOOD REPORT

EFFECTIVE FLOOD INFORMATION REPORT



Location Information

County: **COLUMBIA**
 Parcel: **124S1602935010**
 Flood Zone: **AE, X-SHADED,**
 Flood Risk: **HIGH**

1% Annual Chance Base Flood Elev* **131.2 (feet)**
 10% Annual Chance Flood Elev* **Not Available**
 50% Annual Chance Flood Elev* **Not Available**

* Flood Elevations shown on this report are in NAVD 88 and are derived from FEMA flood mapping products, rounded to the nearest tenth of a foot. For more information, please see the note below

Legend with Flood Zone Designations

| | | | | | | | |
|--|--|--|----------------------------|--|-------------------|--|----------|
| | 1% Flood -Floodway (High Risk) | | Area Not Included | | CrossSections | | Wetlands |
| | 1% Flood - Zone AE (High Risk) | | SFHA Decrease | | County Boundaries | | |
| | 1% Flood - Zone A (HighRisk) | | SFHA Increase | | FIRM Panel Index | | |
| | 1% Flood - Zone VE (HighRisk) | | Depressions | | Parcels | | |
| | 0.2% Flood-Shaded Zone X (Moderate Risk) | | BaseFlood Elevations (BFE) | | River Marks | | |

Supplemental Information

| | | | | | |
|---------------|-------------|--------------------|-----------|---------------------------|-----|
| Watershed | Santa Fe | Map Effective Date | 11/2/2018 | Special Flood Hazard Area | Yes |
| FIRM Panel(s) | 12023C0291D | | | | |

Anywhere it can rain, it can flood
Know your risk.



www.srwmfloodreport.com

The information herein represents the best available data as of the effective map date shown. The Federal Emergency Management Agency (FEMA) Flood Map Service Center (<https://msc.fema.gov>) maintains the database of Flood Insurance Studies and Digital Flood Insurance Rate Maps, as well as additional information such as how the Base Flood Elevations (BFEs) and/or floodways have been determined and previously issued Letters of Map Change. Requests to revise flood information may be provided to the District during the community review period on preliminary maps, or through the appropriate process with FEMA [Change Your Flood Zone Designation](https://www.floodsmart.com) | [FEMA.gov](https://www.floodsmart.com). Information about flood insurance may be obtained at (<https://www.floodsmart.com>)

Base Flood Elevation (BFE)

The elevation shown on the Flood Insurance Rate Map for Zones AE, AH, A1-A30, AR, AO, V1-V30, and VE that indicates the water surface elevation resulting from a flood that has a one percent chance of equaling or exceeding that level in any given year.

A

Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Because detailed analyses are not performed for such areas; no depths or base flood elevations are shown within these zones.

AE, A1-A30

Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. In most instances, base flood elevations derived from detailed analyses are shown at selected intervals within these zones.

AH

Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Usually areas of ponding with flood depths of 1 to 3 feet. Base Flood Elevations are determined.

AO

Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Usually areas of sheet flow on sloping terrain with flood depths of 1 to 3 feet. Base Flood Elevations are determined.

Supplemental Information:

10%-chance flood elevations (10-year flood-risk elevations) and 50%-chance flood elevations (2-year flood-risk elevations), are calculated during detailed flooding studies but are not shown on FEMA Digital Flood Insurance Rate Maps (FIRMs). They have been provided as supplemental information in the Flood Information section of this report.

AE FW (FLOODWAYS)

The channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood (1% annual chance flood event). The floodway must be kept open so that flood water can proceed downstream and not be obstructed or diverted onto other properties.

Please note, if you develop within the regulatory floodway, you will need to contact your Local Government and the Suwannee River Water Management District prior to commencing with the activity. Please contact the District at 800.226.1066.

VE

Areas with a 1% annual chance of flooding over the life of a 30-year mortgage with additional hazards due to storm-induced velocity wave action. Base Flood Elevations (BFEs) derived from detailed analyses.

X 0.2 PCT (X Shaded, 0.2 PCT ANNUAL CHANCE FLOOD HAZARD)

Same as Zone X; however, detailed studies have been performed, and the area has been determined to be within the 0.2 percent annual chance floodplain (also known as the 500-year flood zone). Insurance purchase is not required in this zone but is available at a reduced rate and is recommended.

X

All areas outside the 1-percent annual chance floodplain are Zone X. This includes areas of 1% annual chance sheet flow flooding where average depths are less than 1 foot, areas of 1% annual chance stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 1% annual chance flood by levees. No Base Flood Elevations or depths are shown within this zone. Insurance purchase is not required in these zones.

LINKS FEMA:

<http://www.fema.gov>

SRWMD:

<http://www.srwmd.state.fl.us>

CONTACT

SRWMD
9225 County Road 49
Live Oak, FL 32060

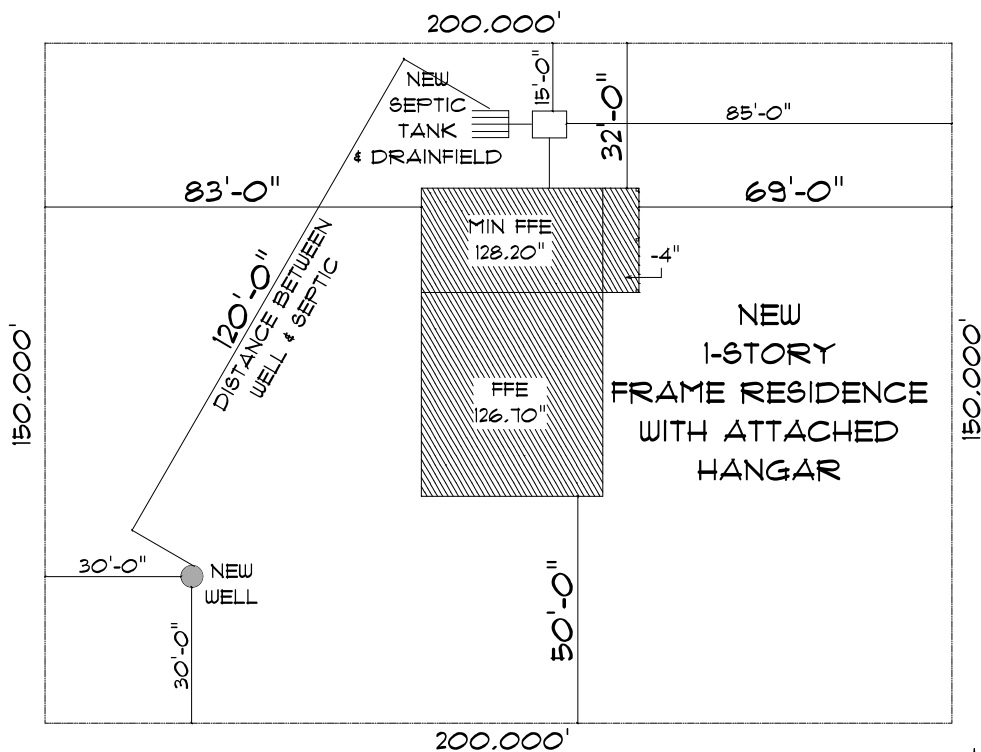
(386) 362-1001

Toll Free:
(800) 226-1066

SITE PLAN

SW SISTERS WELCOME RD

CL



* SITE PLAN *

SCALE : 1" = 10'-0"



NEW RESIDENCE
FOR
DAN & JEANNE
DECKER

Tanya M. Ruffo
2025-04-04
LAWA CITY, FLORIDA 32035
Cell: (386) 841-1188
Email: tanyamruffo@gmail.com

PRINTED DATE:
04/04/2025 11:22AM
DRAWN BY:
Tanya M. Ruffo
CHECKED BY:
Tanya M. Ruffo

PROJECT NAME:
SEWER CONSTRUCTION

PROJECT DATE:
04/04/2025

PROJECT NUMBER:
A-1

PROJECT LOCATION:
SW SISTERS WELCOME RD