

Columbia County Remodel Permit Application

CK# 15323

For Office Use Only Application # 1908-100 Date Received 8/26 By NG Permit # 38599
 Zoning Official T.C. Date 9-5-19 Flood Zone X Land Use Ag Zoning A-3
 FEMA Map # N/A Elevation _____ MFE N/A River N/A Plans Examiner T.C. Date 9-5-19
 Comments Front 30' Sides 25' Rear 25'
☒ NOC ☒ Deed or PA ☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Auth. from Contractor
☐ F W Comp. letter ☐ Owner Builder Disclosure Statement ☐ Land Owner Affidavit ☐ Ellisville Water ☒ App Fee Paid
☒ Site Plan ☐ Env. Health Approval ☐ Sub VF Form

Applicant (Who will sign/pickup the permit) Jessica Crumrine Fax _____ Phone 352 351 0799
 Address 4340 SE 9th St Ocala, FL 34480
 Owners Name Kim Ward-Amerson Phone 352-284-5554
 911 Address 409 SE Diamondback High Springs 32643
 Contractors Name Sauer and sons Thomas Saur Phone 352 351 0799
 Address 4340B SE 9S St Ocala, FL 34480
 Contractor Email Sauer and sons @ gmail. com ***Include to get updates on this job.

Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address _____
 Mortgage Lenders Name & Address _____
 Circle the correct power company ☐ FL Power & Light ☐ Clay Elec. ☐ Suwannee Valley Elec. ☐ Duke Energy
 Property ID Number 10-75-17-09974-309 Estimated Construction Cost 7300⁰⁰
 Subdivision Name Dogwood Acres Unrec Lot _____ Block _____ Unit _____ Phase _____
 Driving Directions from a Major Road South on 441, left on Diamondback Gl., 1 mile on (L)

Construction of Screen Room Commercial OR ☒ Residential
 Type of Structure (House; Mobile Home; Garage; Exxon) Screen Room
 Use/Occupancy of the building now _____ Is this changing _____
 If Yes, Explain, Proposed Use/Occupancy _____
 Is the building Fire Sprinkled? _____ If Yes, blueprints included _____ Or Explain _____
 Entrance Changes (Ingress/Egress) _____ If Yes, Explain _____
 Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) _____

9/9 - left message w/ Kim re: info for issue

Columbia County Building Permit Application

CODE: Florida Building Code 2017 6th Edition and the 2014 National Electrical Code.

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within **180** days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO CONTRACTOR AND AGENT: YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

Kim Ward-Amerson
Print Owners Name

[Signature]
Owners Signature

****Property owners must sign here before any permit will be issued.**

****If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.**

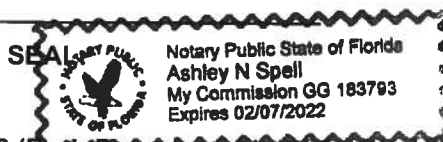
CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

[Signature]
Contractor's Signature

Contractor's License Number CC-1255202
Columbia County
Competency Card Number 1800 ✓

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 20 day of August 2019.
Personally known X or Produced Identification _____

Ashley N Spell
State of Florida Notary Signature (For the Contractor)



Legend

2018Aerials



Roads

Roads

others

Dirt

Interstate

Main

Other

Paved

Private

Parcels

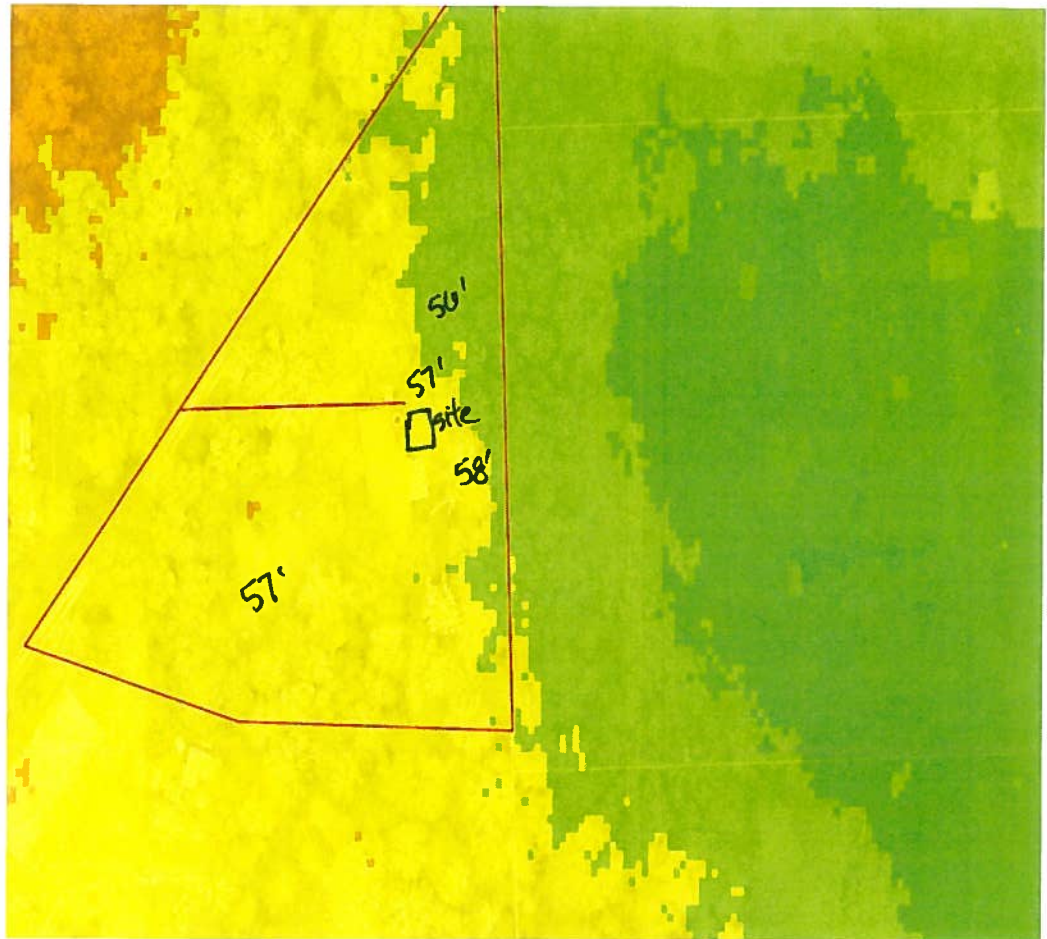
SectionTownshipAndRange

LidarElevations



Columbia County, FLA - Building & Zoning Property Map

Printed: Tue Sep 03 2019 11:41:13 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 10-7S-17-09974-309

Owner: WARD-AMERSON KIM LYNN

Subdivision: DOGWOOD ACRES UNR

Lot:

Acres: 2.04857063

Deed Acres: 2.07 Ac

District: District 4 Toby Witt

Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3

All data, information, and maps are provided "as is" without warranty or any representation of accuracy, timeliness of completeness. Columbia County, FL makes no warranties, express or implied, as to the use of the information obtained here. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts all limitations, including the fact that the data, information, and maps are dynamic and in a constant state of maintenance, and update.

2018 Flood Zones

Columbia County Property Appraiser

Jeff Hampton

2019 Preliminary Certified Values

updated: 8/14/2019

Parcel: << 10-7S-17-09974-309 >>

Aerial Viewer Pictometry Google Maps

Owner & Property Info

Result: 1 of 1

Owner	WARD-AMERSON KIM LYNN 609 SE DIAMONDBACK GLEN HIGH SPRINGS, FL 32643		
Site	609 DIAMONDBACK GLN, HIGH SPRINGS		
Description*	COMM AT NE COR OF SW1/4, RUN E 661.55 FT TO W LINE OF DOWNING ACRES UNR, S 330 FT FOR POB, RUN S 42 DG W 542 FT, S 74 DG E 172.61 FT, E 215.50 FT, N 448.17 FT TO POB. 999-2044, QC 1230-1575, WD 1328-449,		
Area	2.07 AC	S/T/R	10-7S-17E
Use Code**	MOBILE HOM (000200)	Tax District	3

*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.

**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Property & Assessment Values

2018 Certified Values		2019 Preliminary Certified	
Mkt Land (2)	\$20,061	Mkt Land (2)	\$21,311
Ag Land (0)	\$0	Ag Land (0)	\$0
Building (1)	\$58,044	Building (1)	\$65,488
XFOB (5)	\$3,800	XFOB (5)	\$3,800
Just	\$81,905	Just	\$90,599
Class	\$0	Class	\$0
Appraised	\$81,905	Appraised	\$90,599
SOH Cap [?]	\$0	SOH Cap [?]	\$0
Assessed	\$81,905	Assessed	\$90,599
Exempt	\$0	Exempt	HX H3 \$50,000
Total Taxable	county:\$81,905 city:\$81,905 other:\$81,905 school:\$81,905	Total Taxable	county:\$40,599 city:\$40,599 other:\$40,599 school:\$65,599

**▼ Sales History**

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
12/21/2016	\$120,000	1328/0449	WD	I	Q	01
2/21/2012	\$100	1230/1575	QC	V	U	11
11/12/2003	\$100	999/2044	WD	V	U	01

▼ Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	1	SFR MANUF (000200)	2003	2340	2340	\$65,488

*Bldg Desc determinations are used by the Property Appraisers office solely for the purpose of determining a property's Just Value for ad valorem tax purposes and should not be used for any other purpose.

▼ Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
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Permit No: _____

Tax Folio No: 10-75-17-09974-309

NOTICE OF COMMENCEMENT

STATE OF Florida
COUNTY OF Columbia

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of property: (legal description of property, and street address if available) 609 SE Diamondback Glen High Springs, FL 3264
Comm At NE Cor 088 S.W. 1/4, Run E 661.55 ft to W Line of Downing Acres LWR, S 330 ft For PCB
Run S 42 DG W 542 ft, S 74 DG E 124.61 ft, E 215.50 ft, N 448.17 ft to P.O.B. 999-2014, GC 1230-1575,
WS 1328-449 S/TIR 10-75-17e

2. General description of improvement: Screen Enclosure w/ Pan Roof

3. Owner information or Lessee information if the Lessee contracted for the improvement:
a. Name and address: Kim Lynn Ward-Amerson
b. Interest in property: Owner
c. Name and address of fee simple titleholder (if different from Owner listed above): N/A

4. a. Contractor: (name and address) Sauer + Sons Const Inc Tom Sauer CBC-1255202
b. Contractor's Phone number: 4340 SE 95th St Unit B Ocala, FL 34480 352-391-0799

5. Surety (if applicable, a copy of the payment bond is attached).
a. Name and address: N/A
b. Phone number: N/A
c. Amount of bond \$ N/A

6. a. Lender (name and address): N/A
b. Lender's Phone number: N/A

7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
a. Name and address: N/A
b. Phone numbers of designated persons: N/A

8. a. In addition to himself or herself, Owner designates N/A of _____ to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
b. Phone number of person or entity designated by owner: N/A

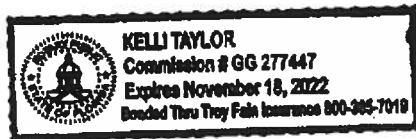
9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified) N/A

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

[Signature]
(Signature of Owner or Lessee, or Owner's Authorized Officer/Director/Partner/Manager)

Owner
(Signatory's Title/Office)

The foregoing instrument was acknowledged before me this 7th day of Aug, 2019 (year) by Kim Wade Amerson (name of person) as owner (type of authority, e.g. officer, trustee, attorney in fact) for Self (name of party on behalf of whom instrument was executed).



[Signature]
Signature of Notary Public - State of Florida
Print, Type, or Stamp Commissioned Name of Notary Public
Commission Number

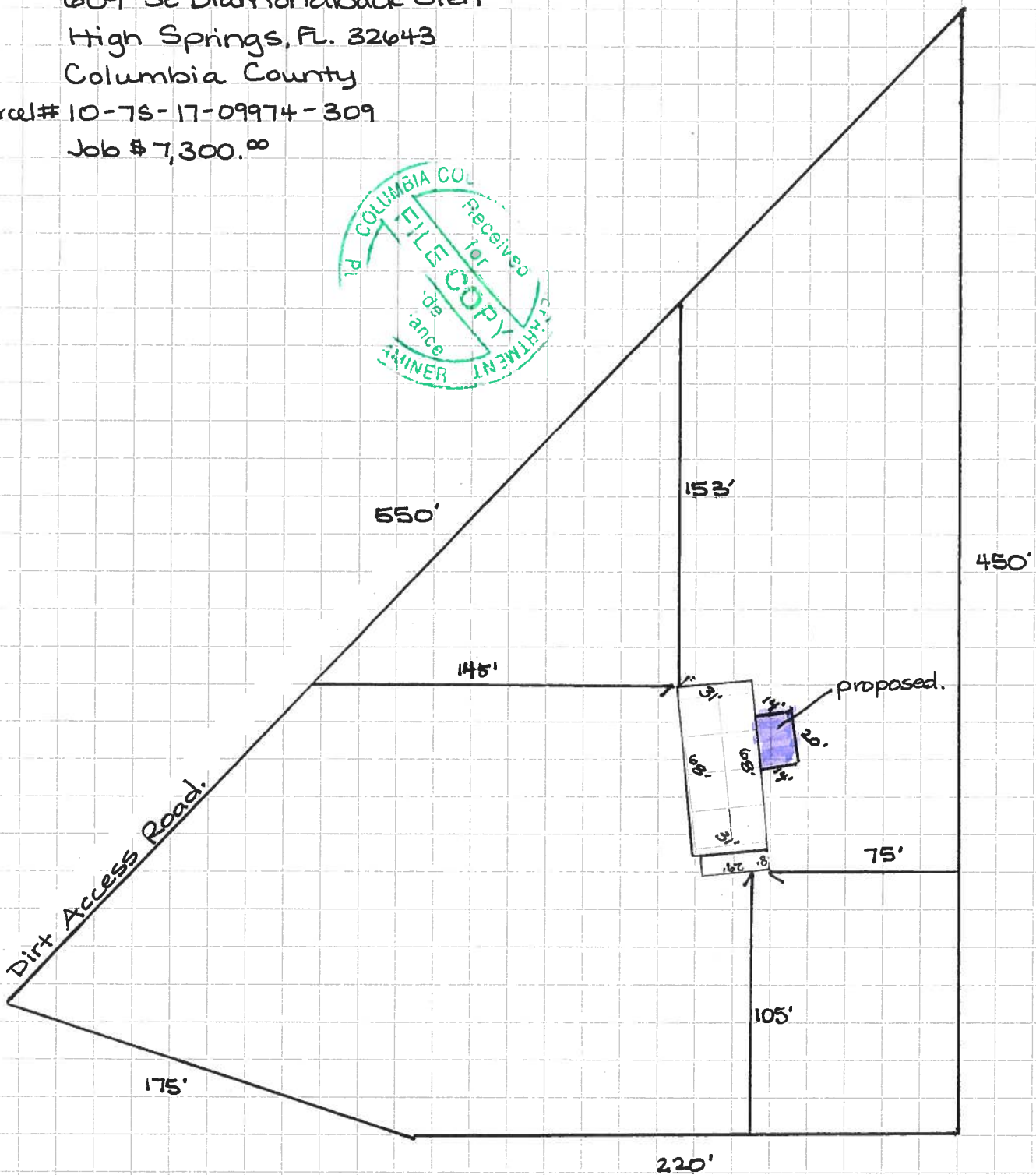
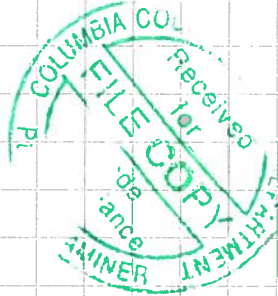
Personally Known _____ or Produced Identification ☒
Type of Identification Produced FL ID

Ward-Amerson Kim Lynn
609 SE Diamondback Glen
High Springs, FL. 32643
Columbia County

1" = 60' scale

Parcel# 10-75-17-09974-309

Job \$ 7,300.00





***Plan Types:**

- ☒ Screen Room ☐ Sun Room ☐ Fill In
☐ Pool Screen/Cage (Non-Removable Screen – Designed to withstand actual Wind Speed)
☐ Car Port ☐ Patio Cover
☒ Other: Extended Roof

Amerson, Kim

* ☐ Standard ☒ Non Standard ☐ Revision ☐ Commercial ☐ \$75.00 Rush Fee

* **Project Address:** 609 SE Diamondback Glen

* **City:** High Springs, FL. 32643

Date: 8/9/19

* **Contractor Name:** Sauer and Sons Construction

* **Address:** 4340 SE 95th Street, unit B.

* **City:** Ocala, FL.

* **Zip Code:** 34480

* **Phone/Fax:** 352-351-0799

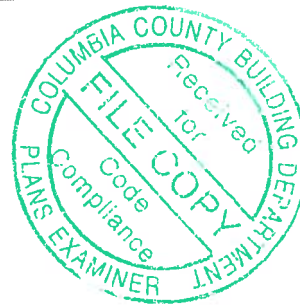
* **Email:** sauerandsons@gmail.com

* **Choose One:** ☐ Mail ☐ Pick Up ☐ E-File ☒ Fed Ex/UPS* 3 # of Copies

☐ Single PDF

☐ Each Page Separate

UPS: 1A198W



*(For FedEx option go to www.aluminumscreendesign.com and provide FedEx/UPS account #)

* **Payment:** ☐ Check ☒ Credit Card*

*(For Credit Card option go to www.aluminumscreendesign.com to pay by credit card)

Engineering prepared by:



Engineer: Michael Thompson, MSc, P.E. (P.E. # 47509)

4401 Vineland Road- Suite A6 Orlando, FL 32811

Office: 407-734-1470 Cell: 407-721-2292

Project Manager Paul Thomas 386-479-9504 Fax: 888-923-8181

Email: aluminumscreendesign@yahoo.com

Website: www.aluminumscreendesign.com CA#30930

per spec

* Ultimate Wind Speed (mph): 130 Exposed Category: B Risk Category: 2

☒ Screen Room ☐ Sun Room ☐ Fill In:

☐ Insulated ☒ Pan Roof

☐ Gutter ☒ Fascia ☐ Block Wall ☐ Conventional Wall ☐ 4th Wall

Uprights ² X⁴ Top Plate ² X² Chair Rail ² X² Kick Plate

Uprights X Top Plate X Chair Rail X

Pool Screen/Cage :

☐ Dome ☐ Gable ☐ Mansard/Hip ☐ Shed/Slope

☐ Gutter ☐ Fascia ☐ Block Wall ☐ Conventional Wall

Beams X Uprights X Purlin X Chair Rail X

Beams X Uprights X Purlin X Chair Rail X

Kick Plate

☐ Car Port ☐ Patio Cover:

☐ Insulated ☐ Pan Roof

☐ Gutter ☐ Fascia ☐ Block Wall ☐ Conventional Wall ☐ 4th Wall

Beams X Post X

Concrete:

☒ Existing ☐ New: 4" Slab ☐ Pier ☐ Ribbon Footer X

☐ Pavers ☐ 6" Thickened Edge

Other: existing wood deck

Note: In the event that there is a conflict with the design plans and general notes and design standard, the contractor shall utilize the more stringent dimensions and member sizes prior to ordering materials, fabrication and/or construction between the plans and the general notes and design standard.

Engineer: Michael Thompson, MSc, P.E. (PE#47509)
4401 Vineland Road Suite A6, Orlando, FL 32811
(CA#30930)-Ph 407-734-1470/Fax 407-734-1790

General Notes & Design Standards

(Screen Patio Room Enclosure)

The following are general design standards. More stringent design standards may be noted on the plans. In the event of a conflict in plans and/or design standard dimensions and/or member sizes, the contractor must utilize the more stringent dimensions and/or member sizes prior to ordering materials, fabrication and/or construction.

Design Codes:

Florida Building Code 2017 (6th Edition)

Aluminum Design Manual 2015

ASCE 7-10

Design Loads:

Pursuant to FBC Chapters 16 & 20

Ultimate Wind: **-130 MPH** (FBC Table 2002.4) (35 psf)

Risk Category: -See attach site specific plan sheet (FBC Table 1604.5)

Exposure Category: -See attach site specific plan sheet (FBC 1609.4.3)

Additional Load requirements:

Structural members supporting screened enclosures are designed for wind in both of two orthogonal directions using the pressures given in Table 2002.4. Each primary member is also designed for a 300 pound load applied vertically downward along any 1 foot of any member, not occurring simultaneously with wind load. In addition to wind pressures, purlins is also be designed for a 200 pound load applied vertically downward along any 1 foot of any member, not occurring simultaneously with wind load.

Design Basis:

Allowable Stress Design (ASD) = Allowable Strength Design (ASD) divide by safety factor

General Requirements:

Reproductions of contract drawings by contractor in lieu of preparation of shop drawings signifies acceptance of information shown as correct and obligates himself to any expense, real or implied, arising from their use.

A change to the structural drawings due to the acceptance of alternates and/or substitutes is the responsibility of the contractor and must be submitted to the engineer for approval.

The general contractor and each subcontractor shall review the approve construction plans in its entirety and verify all existing conditions prior to the start of any work. All inconsistencies shall be reported to the designer and/or structural engineer, if needed. Should contractor construct the premises in a fashion not consistent with the plans prepared by the designer and/or structural engineer, or in any fashion, change the plans and drawing without the review and approval from the designer and/or structural engineer. Then designer and/or structural engineer shall bear no responsibility or liability for the construction of premises and accuracy of the drawings.

Foundation and Earthwork:

Applicable only when unsuitable soils are encountered.

When unsuitable soils are encountered as specified bearing strata, notify owner's representative/engineer.

Soil bearing capacity – 2,000 psf Minimum

Provide neat excavation for footing and place concrete immediately after excavation and inspection.

Pump water from footing excavation if greater than one inch.

Compact all fill to 95% ASTM D698 density.

Unit soil weight = 105 pcf

Internal angle of friction = 30 degrees

Coeff. Of friction between footing and soil = 0.5

Structural Aluminum:

Conform to latest edition of Florida Building Code and Aluminum Design Manual standard practice for aluminum design.

All aluminum shall be 6005-T5 (E= 10,000 ksi; Fy = 35 ksi) with a minimum wall thickness of 0.046"

Splicing prohibited without prior approval as to location and type.

Burning of holes in aluminum members is prohibited. Any member with burned holes must be replaced.

Aluminum Protection:

Shall be pursuant FBC 2003.8.4. Aluminum surfaces in contact with dissimilar materials, lime-mortar, concrete, or other masonry materials, shall be protected with powder coated or ESP paint or alkali-resistant coatings, such as heavy-bodied bituminous paint or water-white methacrylate lacquer.

Screws:

Aluminum self-tapping screws shall conform to ASME B18.6.4 specification.

Self-tapping screws shall meet the requirements of ADM J.5

Maximum fastener spacing shall not exceed (3+20t) where "t" is the member thickness in inches.

For roofing and siding connection, use minimum #12 screws for end and side laps spaced at 12" max for side lap and end lap fasteners shall be no more than 2" from the end of overlapping sheets.

For bottom plate and column base, secure with 1/4" tapcons a minimum embedment of 1 1/8" and 2 1/4" respectively into concrete footer.

Bolts:

Bolts and other fasteners shall be aluminum, stainless steel, hot-dip or electro-galvanized steel. Double cadmium plated steel bolts may also be used. Bolt holes diameter shall not exceed 1/16" larger than the bolt diameter and shall be spaced at a minimum of 2.5 times the bolt diameter with minimum edge distance of 1.5 times the bolt diameter.

Bolts shall meet the requirements of ADM J.3

Chair Rails, Purlins & Wind Brace:

Chair rails, purlins and wind brace shall conform with the below maximum span length. If the event contractor's specific site plan conflict with the below recommended length, the contractor shall utilize the more stringent dimensions and member sizes prior to ordering materials, fabrication and/or construction.

Wind Speed = 130 MPH

2 x 2 Chair Rail = 6'-6" 2 x 2 Purlins = 6'-6" 2 x 2 Wind Brace = 4'-3" 2 x 3 (0.125) Wind Brace = 9'-0"

2 x 3 Chair Rail = 8'-0" 2 x 3 Purlins = 8'-0" 2 x 3 Wind Brace = 8'-0" 2 x 4 Wind Brace = 9'-0"

Concrete

Conform to ACI 318, latest edition and ACI 301

Compressive Ultimate Strength (Minimum at 28 days) shall be 3000 psi

Exposed chamfer edges shall be 3/4"

Reinforcing Steel:

Conform to ACI 318 and 315, Latest edition

All reinforcement steel shall be ASTM A615 Grade 60.

Smooth dowels & ties shall be ASTM A185

Welded Wire Fabric shall be ASTM A185 or A82 (Flat sheet).

Deformed bar anchors shall be ASTM A496, Grade 70

Cover: Footing 3"

Washer:

Washers shall be used under bolt heads and under nuts.

Hole Alignment:

Poor matching holes must be rejected. Contractor shall prevent holes from drifting and distort the metal. All chips and foreign matter between contacting surfaces shall be removed before assembly.

Beams & Uprights:

In the event of a conflict with the values in this table and the site specific plan, the contractor must utilize the more stringent dimensions and/or member sizes between the site specific plan and the below applicable span limitations prior to ordering materials, fabrication and/or construction.

130 MPH					
PRIMARY BEAMS & COLUMNS-SCREEN & PATIO ROOM ENCLOSURES				ROOF PANELS	
Beam-Size	Max Beam Span & Max Column Spacing	Column-Size	Max Column-Height	Pan Roof Span	Insulated Roof Span
2 X 3	6'-0"	2 X 3	8'-0"	3" Spans 13'-6"	3" Spans 15'-0" 6" Spans 20'-0"
2 X 4	8'-6"	2 X 4	8'-6"		
2 x 5	10'-0"	2 x 5	9'-0"		
2 X 6	12'-0"	2 X 6	10'-0"		

Knee Bracing:

Contractor shall provide knee bracing on 45 degree angle pursuant the attach detail sheet that specified size and length requirements. Knee bracing on upright above super gutter intersection shall be connected to upright no more than 6" above the super gutter. Knee brace size shall be a minimum of 2 x 2 for beam span of 15' max; 2 x 3 for 30' max; 2 x 4 for beam span greater than 30'.

Purlin:

Contractor is required to install purlins spaced to align with column spacing; however, spacing between purlins shall not exceed 7'-2".

Intermediate/Header Beam:

Contractor is required to install a minimum 2 x 7 intermediate header beam supported with 3 x 3 column spaced at 10 feet (max) when insulated roof span exceeds 15 feet.

Patio Cover:

Contractor is required to install insulated roof covering pursuant to the Florida product approval specification. Overhang shall be a maximum of 1'-0" along the side, 3'-0" along the front and 1/2" along the front interface between the super gutter and the attached pool cage knee riser wall. Maximum deflection shall be limited to L/80.

Edge Distance:

Contractor is required to install uprights to provide a 2" minimum clearance from edge of slab and/or footer.

Vinyl, tempered glass, and acrylic panels:

Vinyl, tempered glass, and acrylic panels shall be removable. Removable panels shall be identified as removable by a decal. The identification decal shall essentially state "Removable panel SHALL be removed when wind speeds exceed 75 mph (34 m/s)." visible when the panel is installed.

General Notes & Design Standards

(Unscreened Patio Room Enclosure)

The following are general design standards. More stringent design standards may be noted on the plans. In the event of a conflict in plans and/or design standard dimensions and/or member sizes, the contractor must utilize the more stringent dimensions and/or member sizes prior to ordering materials, fabrication and/or construction.

Design Codes:

Florida Building Code 2017 (6th Edition)
Aluminum Design Manual 2015
ASCE 7-10

Design Loads:

Pursuant to FBC Chapters 16 & 20
Ultimate Wind: **-130 MPH** (*FBC Table 2002.4*) (*35 psf*)
Risk Category: -See attach site specific plan sheet (*FBC Table 1604.5*)
Exposure Category: -See attach site specific plan sheet (*FBC 1609.4.3*)

Additional Load requirements:

Structural members supporting screened enclosures are designed for wind in both of two orthogonal directions using the pressures given in Table 2002.4. Each primary member is also designed for a 300 pound load applied vertically downward along any 1 foot of any member, not occurring simultaneously with wind load. In addition to wind pressures, purlins is also be designed for a 200 pound load applied vertically downward along any 1 foot of any member, not occurring simultaneously with wind load.

Design Basis:

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A change to the structural drawings due to the acceptance of alternates and/or substitutes is the responsibility of the contractor and must be submitted to the engineer for approval.

The general contractor and each subcontractor shall review the approve construction plans in its entirety and verify all existing conditions prior to the start of any work. All inconsistencies shall be reported to the designer and/or structural engineer, if needed. Should contractor construct the premises in a fashion not consistent with the plans prepared by the designer and/or structural engineer, or in any fashion, change the plans and drawing without the review and approval from the designer and/or structural engineer. Then designer and/or structural engineer shall bear no responsibility or liability for the construction of premises and accuracy of the drawings.

Foundation and Earthwork:

Applicable only when unsuitable soils are encountered.
When unsuitable soils are encountered as specified bearing strata, notify owner's representative/engineer.
Soil bearing capacity – 2,000 psf Minimum

Provide neat excavation for footing and place concrete immediately after excavation and inspection.

Pump water from footing excavation if greater than one inch.
Compact all fill to 95% ASTM D698 density.

Unit soil weight = 105 pcf
Internal angle of friction = 30 degrees

Coeff. Of friction between footing and soil = 0.5

Structural Aluminum:

Conform to latest edition of Florida Building Code and Aluminum Design Manual standard practice for aluminum design.

All aluminum shall be 6005-T5 ($E = 10,000$ ksi; $F_y = 35$ ksi) with a minimum wall thickness of 0.046"

Splicing prohibited without prior approval as to location and type.

Burning of holes in aluminum members is prohibited. Any member with burned holes must be replaced.

Aluminum Protection:

Shall be pursuant FBC 2003.8.4. Aluminum surfaces in contact with dissimilar materials, lime-mortar, concrete, or other masonry materials, shall be protected with powder coated or ESP paint or alkali-resistant coatings, such as heavy-bodied bituminous paint or water-white methacrylate lacquer.

Screws:

Aluminum self-tapping screws shall conform to ASME B18.6.4 specification.

Self-tapping screws shall meet the requirements of ADM J.5

Maximum fastener spacing shall not exceed $(3+20t)$ where "t" is the member thickness in inches.

For roofing and siding connection, use minimum #12 screws for end and side laps spaced at 12" max for side lap and end lap fasteners shall be no more than 2" from the end of overlapping sheets.

For bottom plate and column base, secure with $\frac{1}{4}$ " tapcons a minimum embedment of 1 $\frac{1}{8}$ " and 2 $\frac{1}{4}$ " respectively into concrete footer.

Bolts:

Bolts and other fasteners shall be aluminum, stainless steel, hot-dip or electro-galvanized steel. Double cadmium plated steel bolts may also be used. Bolt holes diameter shall not exceed $\frac{1}{16}$ " larger than the bolt diameter and shall be spaced at a minimum of 2.5 times the bolt diameter with minimum edge distance of 1.5 times the bolt diameter.

Bolts shall meet the requirements of ADM J.3

Concrete

Conform to ACI 318, latest edition and ACI 301

Compressive Ultimate Strength (Minimum at 28 days) shall be 3000 psi

Exposed chamfer edges shall be $\frac{3}{4}$ "

Reinforcing Steel:

Conform to ACI 318 and 315, Latest edition

All reinforcement steel shall be ASTM A615 Grade 60.

Smooth dowels & ties shall be ASTM A185

Welded Wire Fabric shall be ASTM A185 or A82 (Flat sheet).

Deformed bar anchors shall be ASTM A496, Grade 70

Cover: Footing 3"

Washer:

Washers shall be used under bolt heads and under nuts.

Hole Alignment:

Poor matching holes must be rejected. Contractor shall prevent holes from drifting and distort the metal. All chips and foreign matter between contacting surfaces shall be removed before assembly.

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Beams & Uprights:

In the event of a conflict with the values in this table and the site specific plan, the contractor must utilize the more stringent dimensions and/or member sizes between the site specific plan and the below applicable span limitations prior to ordering materials, fabrication and/or construction.

130 MPH					
PRIMARY HEADER BEAM MEMBERS-OPEN COVERED PATIO-(No Screen Insert)					
SIZE	3" Insulated/Pan Roof Span Maximum Roof Span = 6'-0"	3" Insulated/Pan Roof Span Maximum Roof Span = 8'-0"***	3" Insulated/Pan Roof Span Maximum Roof Span = 10'-0"***	3" Insulated/Pan Roof Span Maximum Roof Span = 12'-0"***	3" Insulated/Pan Roof Span Maximum Roof Span = 15'-0"***
2 X 4	10'-0"	9'-0"	9'-0"	8'-0"	8'-0"
2 X 5	13'-0"	12'-0"	11'-0"	10'-0"	9'-0"
2 X 6	15'-0"	14'-0"	13'-0"	12'-0"	11'-0"
2 X 7	17'-0"	16'-0"	14'-0"	14'-0"	13'-0"
2 X 8	21'-0"	20'-0"	18'-0"	17'-0"	16'-0"
2 X 9	21'-0" *	20'-0" *	20'-0"	20'-0"	19'-0"
2 X 10	21'-0" *	20'-0" *	20'-0" *	20'-0" *	19'-0" *

Column size is 3 x 3 x 0.125" (1/8") unless noted otherwise with a max height of 9'-0" -*(CSR) control < 1.0. Larger span req larger column size.

**Pan roof span limitation is based on Florida Product approval and intermediate purlins/cross beams shall be provided to underside of pan roof when pan roof span exceeds 7'-0".

Knee Bracing:

Contractor shall provide knee bracing on 45 degree angle pursuant the attach detail sheet that specified size and length requirements. Knee bracing on upright above super gutter intersection shall be connected to upright no more than 6" above the super gutter. Knee brace size shall be a minimum of 2 x 2 for beam span of 15' max; 2 x 3 for 30' max; 2 x 4 for beam span greater than 30'.

Intermediate/Header Beam:

Contractor is required to install a minimum 2 x 7 intermediate header beam supported with 3 x 3 column spaced at 10 feet (max) when insulated roof span exceeds 15 feet.

Patio Cover:

Contractor is required to install insulated roof covering pursuant to the Florida product approval specification. Overhang shall be a maximum of 1'-0" along the side, 3'-0" along the front and 1/2" along the front interface between the super gutter and the attached pool cage knee riser wall. Maximum deflection shall be limited to L/80.

Edge Distance:

Contractor is required to install uprights to provide a 2" minimum clearance from edge of slab and/or footer.