

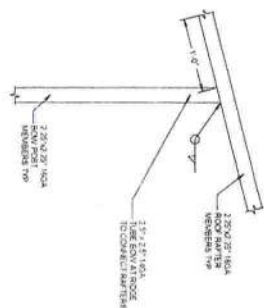
CODES AND STANDARDS

1. WIND LOADS AS PER:
 - A. FLORIDA RESIDENTIAL BUILDING CODE 7TH EDITION (2020) WITH AN ULTIMATE DESIGN WIND SPEED OF 150 MPH, EXPOSURE B, NOMINAL DESIGN WIND SPEED OF 117 MPH, BUILDING RISK CATEGORY 1
 - ROOF LIVE LOAD DESIGN IS 20 PSF
 - THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE:
 - A. FLORIDA BUILDING CODE 7TH EDITION (2020)
 - B. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318/2014 EDITION)
 - C. MANUAL OF STANDARD PRACTICE FOR WELDING REINFORCING STEEL, INSERTS & CONNECTIONS IN REINFORCED CONCRETE CONSTRUCTION, AWS D1.4 LATEST EDITION
 - D. SPECIFICATION FOR THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) AISC 13TH EDITION (ASD)
 - E. MATERIALS AND ASSEMBLY TEST AS FOLLOWS:
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 - ANSI/MANWMA 101A S 2-97 OR TAS 202
 - ANSI/MANWMA 101A S 2-97 OR TAS 202
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 - STEEL WELD STRENGTH SHALL BE 55 KSI TYP. ALL WELDS SHALL BE 1/8" MINIMUM FILLET WELDS.
 - ANCHORING BUILDING:
 - BUILDING SHALL BE ATTACHED WITH HELICAL ANCHORS PER THE HELICAL ANCHOR DETAIL.
 - WHEN EMBEDDED INTO ASPHALT HELICAL ANCHORS OR 30" LONG #5 REBAR WITH A NUT WELDED TO THE TOP, SHALL BE INSTALLED AT 12" ON CENTER FROM EACH SIDE AND THE BALANCE @ 56" ON CENTER.
 - WHEN PLACED ON A 4" CONCRETE SLAB, A 1/2" EXPANSION ANCHOR WITH 2-1/2" OF EMBEDMENT SHALL BE INSTALLED 12" FROM EACH SIDE AND THE BALANCE @ 56" ON CENTER. CONCRETE SHALL BE MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
 - ALL STEEL TO STEEL FASTENERS ARE TO BE 12-14 x 1/4 HWU ULTRA-2 TOP3 CS.
 - EACH LOCATION WHERE THE FRAME IS JOINED TOGETHER WILL HAVE 2 SCREWS ON EACH SIDE OF THE JOINT.

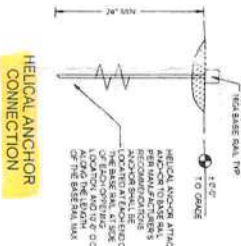
WALL AND OPENING PRESSURES COMPONENTS AND CLADDING (VASD)				
OPENING TYPE	HEIGHT	WIDTH	CODE	TYPE
WINDOW	38.36"	37"	23	SINGLE HUNG
DOOR	96"	36"	S - 750	SINGLE CURTAIN
DOOR	96"	72"	S - 750	SINGLE CURTAIN
DOOR	96"	104"	S - 750	SINGLE CURTAIN
DOOR	96"	120"	S - 750	SINGLE CURTAIN
DOOR	96"	144"	S - 3100	SINGLE CURTAIN

*. PROVIDE BARRIER BETWEEN ALUMINUM AND STEEL TO PREVENT CORROSION

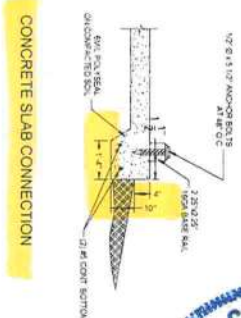
CONNECTOR SCHEDULE				
CONNECTION	Ø	LENGTH	TYPE	MATERIAL
METAL SIDING ROOF	1/4"	3/4"	SELF TAPPING	GALV MTL SCREW
METAL SIDING WALL	1/4"	3/4"	SELF TAPPING	GALV MTL SCREW
TUBE TO TUBE	1/4"	3/4"	SELF TAPPING	GALV MTL SCREW



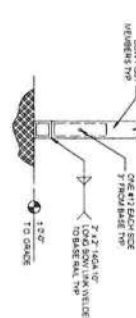
TEE SPLICE CONNECTION



HELICAL ANCHOR CONNECTION

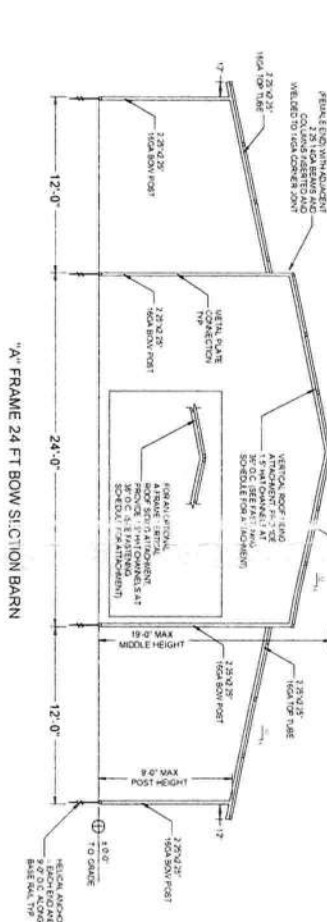
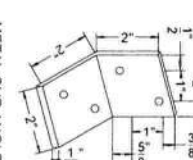
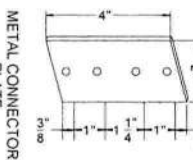
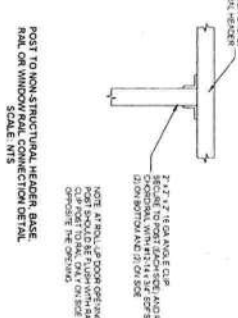


CONCRETE SLAB CONNECTION

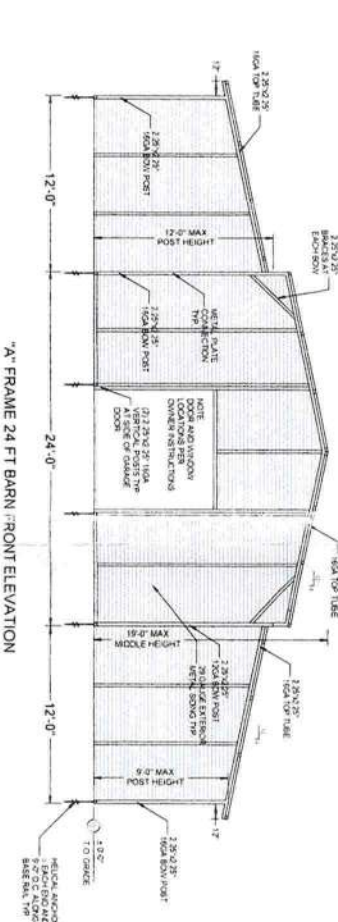


BOW SPLICE CONNECTION

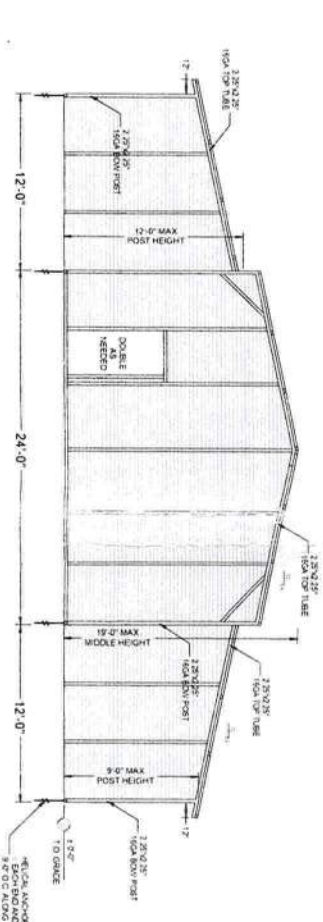
BOW SPLICE CONNECTION AT RIDGE



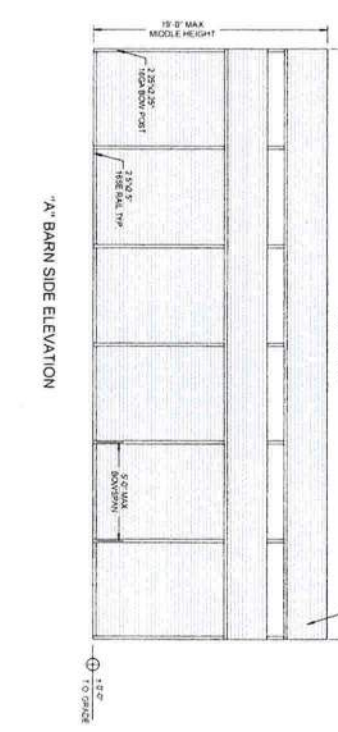
"A" FRAME 24 FT BOW SUCTIION BARN



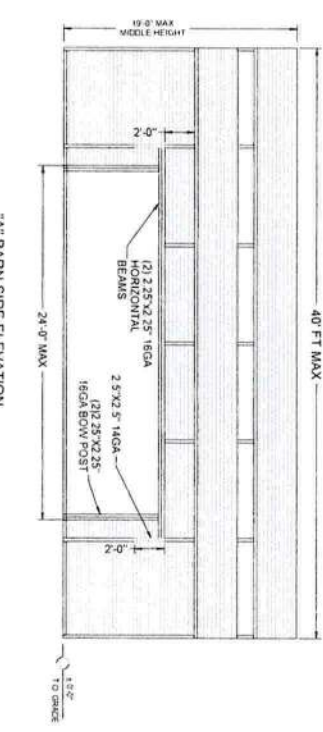
"A" FRAME 24 FT BARN FRONT ELEVATION



"A" FRAME 24 FT BARN REAR ELEVATION



"A" BARN SIDE ELEVATION



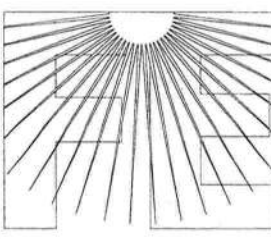
"A" BARN SIDE ELEVATION



GENERIC PLANS ARE NOT VALID WITHOUT A RAISED SEAL & BLUE INK SIGNATURE.

Craig E. Gunderson, P.E. #60102

FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.flengineeringllc.com



THE CARPORT COMPANY
945 NW 17TH AVE
OCALA FL 34475

PROJECT DESCRIPTION:
HORIZONTAL A-BARN ENCLOSURE

DESIGN DATE: 03/18/2022
REVISION 1: DATE
REVISION 2: DATE
SCALE: NTS
PAGE 1

Attachment B General Requirements

CODES AND STANDARDS

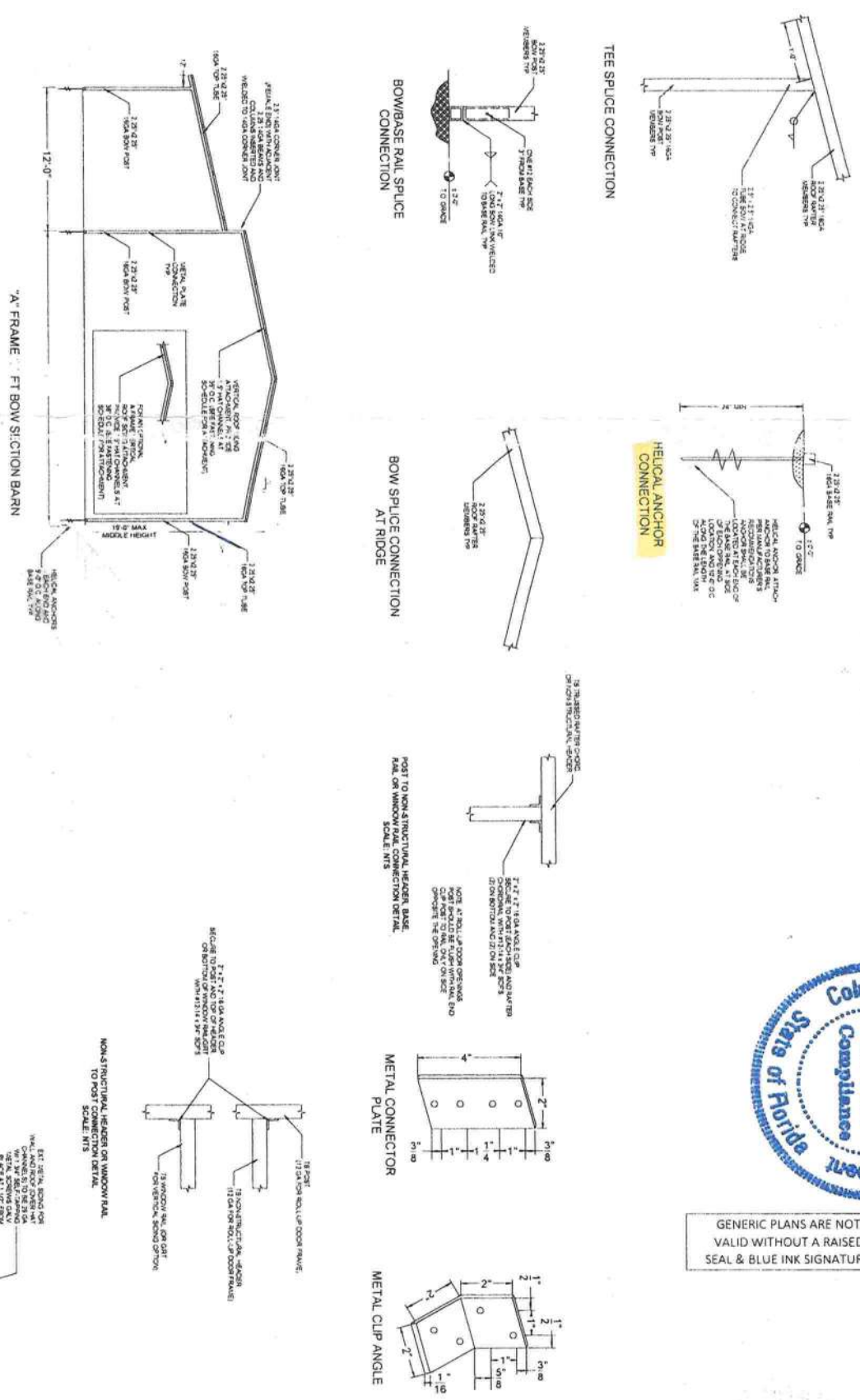
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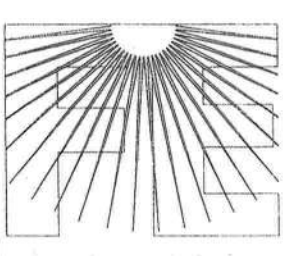
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[Signature]
Craig E. Gunderson, P.E. #60102

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General Attachment A Site Plan

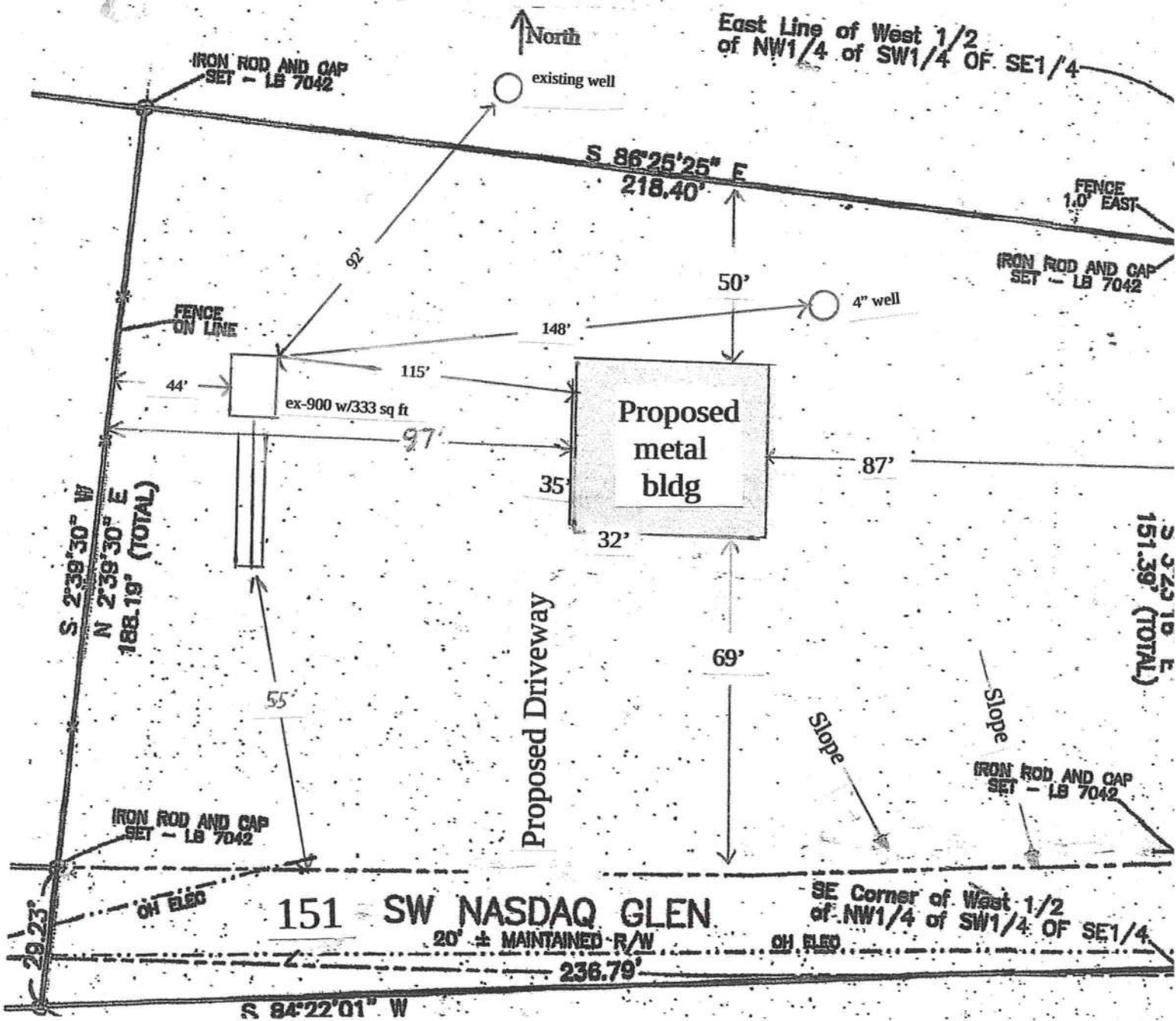
SITE PLAN CHECKLIST

- ✓ 1) Property Dimensions
- ✓ 2) Footprint of proposed and existing structures (including decks), label these with existing addresses
- ✓ 3) Distance from structures to all property lines
- ✓ 4) Location and size of easements
- ✓ 5) Driveway path and distance at the entrance to the nearest property line
- * 6) Location and distance from any waters; sink holes; wetlands; and etc.
- ✓ 7) Show slopes and or drainage paths
- ✓ 8) Arrow showing North direction

* No waters, sink holes, wetlands, etc within 1000 feet of property

NOTE:

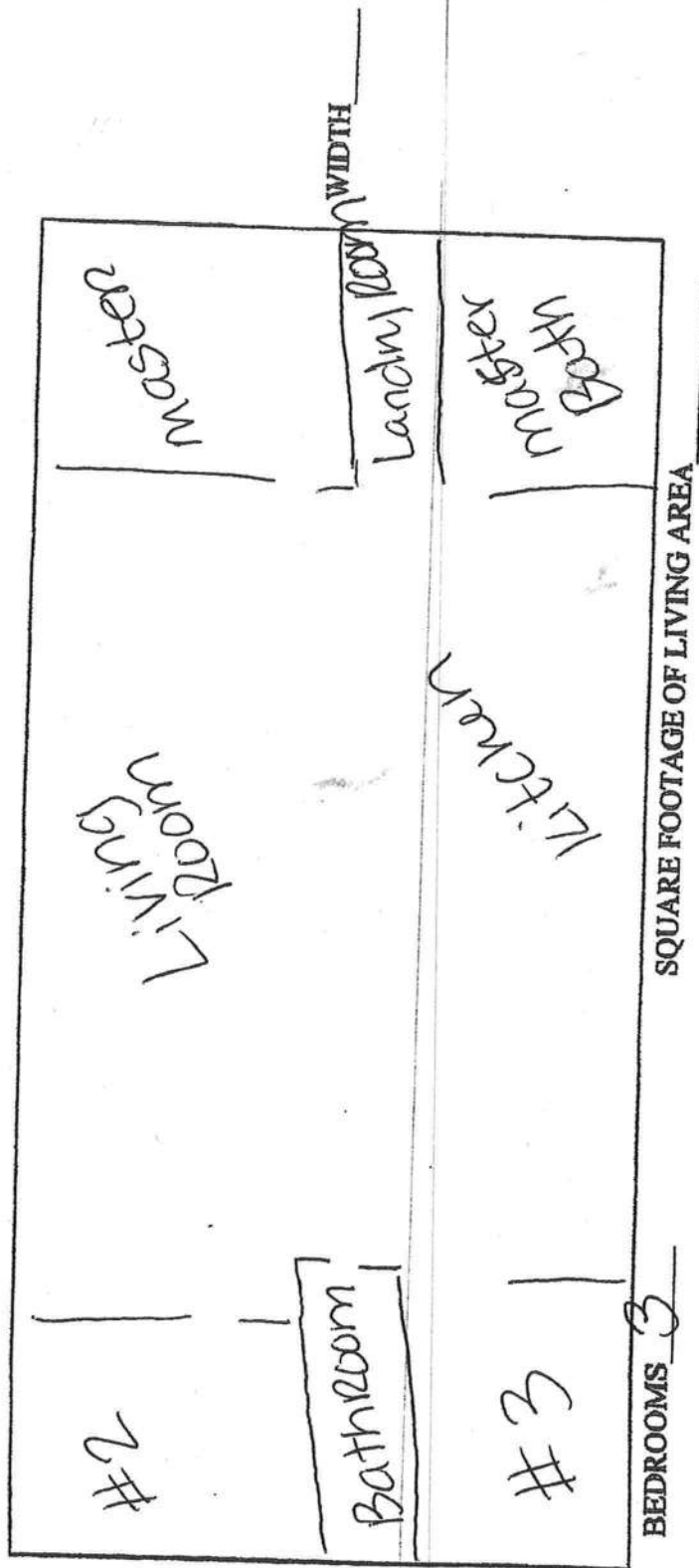
This site plan can be copied and used with the 911 Addressing Dept. application forms.



22-0805
Pruitt

FLOORPLAN

LENGTH _____



SQUARE FOOTAGE OF LIVING AREA _____

PLEASE NOTE THAT A FLOORPLAN OF YOUR HOME OR STRUCTURE IS REQUIRED. WE DO NOT REQUIRE ACTUAL BLUEPRINTS. IF YOUR DEALER HAS PROVIDED A FLOORPLAN, WE PREFER IT, IF NOT, PLEASE SKETCH ONE SHOWING OUTSIDE DIMENSIONS AND INSIDE ROOM LAYOUT.

USE REVERSE SIDE IF NOT A MOBILE HOME.

DATE: 10/01/22 SUBMITTED BY: Robert Ford 999

DD

Attachment J	Explanation / not covered
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# 50	Draft stopping / Fire blocking to be placed between interior and exterior walls at 4' height between wall studs
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# 68	Valley framing No valleys in roofing structure
------	---

Overview and Purpose

The purpose of this request for a building permit is to convert a metal building from the checklist of a Workshop / with bath and sewer; to a Residential single family residence.

The present metal building, shall be dis-mantled completely and utilized as a veneer to a completed residential building. The building listed in the Site Plan [Attachment A] needs modification to Code standards to include re-construction of the roof covering. The Lean-too part of the building's present roof consist of the metal lying horizontally upon the rafters with only a ½" to 12" pitch. This needs changing to a 2" to 12" pitch. The roofing metal shall then be placed vertically. All stress and re-enforcement/bracing to be added to the roof and all other building sides, to include purlins. All other building construction shall be under Florida Building Codes and Inspections

Michael Pruitt and

Cynthia Pruitt Erwin

Owner/Builders

Attachment A	Site Plan
Attachment B	General Requirements
Attachment C	Elevation A Continuous Foundation Plan
Attachment D -1	Elevation B Sub-floor Floor Framing Plan
Attachment D -2	Elevation C Floor Plan
Attachment E	Warranty Deed
Attachment F	Parcel Number
Attachment G	Termite Protection
Attachment H	Environmental Health Permit
Attachment I	Water / Well & Tank
Attachment J	Explanation / not covered

FLORIDA BUILDING CODE, ENERGY CONSERVATION

Residential Building Thermal Envelope Approach

FORM R402-2017

Climate Zone ☐

Scope: Compliance with Section R401.2(1) of the *Florida Building Code, Energy Conservation*, shall be demonstrated by the use of Form R402 for single- and multiple-family residences of three stories or less in height, additions to existing residential buildings, alterations, renovations and building systems in existing buildings, as applicable. To comply, a building must meet or exceed all of the energy efficiency requirements on Table R402A and all applicable mandatory requirements summarized in Table R402B of this form. If a building does not comply with this method, or by the UA Alternative method, it may still comply under Section R405 of the *Florida Building Code, Energy Conservation*.

PROJECT NAME
AND ADDRESS:
OWNER:

Cynthia Pratt
131 N. 3rd St. Gln. H.C., FL

BUILDER:

Owner

PERMITTING OFFICE:

Columbia County

JURISDICTION NUMBER:

PERMIT NUMBER:

General Instructions:

1. Fill in all the applicable spaces of the "To Be Installed" column on Table R402A with the information requested. All "To Be Installed" values must be equal to or more efficient than the required levels.
2. Complete page 1 based on the "To Be Installed" column information.
3. Read the requirements of Table R402B and check each box to indicate your intent to comply with all applicable items.
4. Read, sign and date the "Prepared By" certification statement at the bottom of page 1. The owner or owner's agent must also sign and date the form.

1. New construction, addition, or existing building	1. <u>New</u>	
2. Single-family detached or multiple-family attached	2. <u>Single family</u>	
3. If multiple-family, number of units covered by this submission	3. <u>Yes</u>	
4. Is this a worst case? (yes/no)	4. <u>1120</u>	
5. Conditioned floor area (sq. ft.)	5. <u>8.40</u>	
6. Windows, type and area	6a. <u>125</u>	
a) U-factor:	6b. <u>0</u>	
b) Solar Heat Gain Coefficient (SHGC)	6c. <u>0</u>	
c) Area	7a. <u>✓ 0</u>	
7. Skylights	7b. <u>13</u>	
a) U-factor:	8a. <u>30</u>	
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>None</u>	
8. Floor type, area or perimeter, and insulation:	8c. <u>15 Seer</u>	
a) Slab-on-grade (R-value)	8d. <u>Heat Pump</u>	
b) Wood, raised (R-value)	8e. <u>1.5 tons</u>	
c) Wood, common (R-value)	9a1. <u>Electric</u>	
d) Concrete, raised (R-value)	9a2. <u>192</u>	
e) Concrete, common (R-value)	9b1. <u>Yes</u>	
9. Wall type and insulation:	9b2. <u>No</u>	
a) Exterior:	10a. <u>13</u>	
1. Wood frame (Insulation R-value)	10b. <u>30</u>	
2. Masonry (Insulation R-value)	11a. <u>None</u>	
b) Adjacent:	11b. <u>cfm/100 s.f.</u>	
1. Wood frame (Insulation R-value)	11c. <u>Yes</u>	
2. Masonry (Insulation R-value)	11d. <u>No</u>	
10. Ceiling type and insulation	12a. <u>15 Seer</u>	
a) Attic (Insulation R-value)	12b. <u>Heat Pump</u>	
b) Single assembly (Insulation R-value)	12c. <u>1.5 tons</u>	
11. Air distribution system:	12d. <u>Electric</u>	
a) Duct location, insulation	13a. <u>Yes</u>	
b) AHU location	13b. <u>No</u>	
c) Total duct leakage. Test report attached.	14. <u>192</u>	
12. Cooling system:	15a. <u>Yes</u>	
a) type	15b. <u>No</u>	
b) efficiency		
13. Heating system:		
a) type		
b) efficiency		
14. HVAC sizing calculation: attached		
15. Water heating system:		
a) type		
b) efficiency		

I hereby certify that the plans and specifications covered by this form are in compliance with the *Florida Building Code, Energy Conservation*.

PREPARED BY: _____ Date: _____

I hereby certify that this building is in compliance with the *Florida Building Code, Energy Conservation*.

OWNER/AGENT: _____ Date: _____

Review of plans and specifications covered by this form indicate compliance with the *Florida Building Code, Energy Conservation*. Before construction is complete, this building will be inspected for compliance in accordance with Section 553.908, F.S.

CODE OFFICIAL: T. Lee
Date: 1-24-23

FORMS

TABLE R402A

BUILDING COMPONENT	PRESCRIPTIVE REQUIREMENTS ¹		INSTALLED VALUES
	Climate Zone 1	Climate Zone 2	
Windows	U-Factor = NR SHGC = 0.25	U-Factor = 0.40 ² SHGC = 0.25	U-Factor = SHGC =
Skylights	U-factor = 0.75 SHGC = 0.30	U-factor = 0.65 SHGC = 0.30	U-factor = SHGC =
Doors: Exterior door	U-factor = NR	U-factor = 0.40 ²	U-factor =
Floors: Slab-on-Grade Over unconditioned spaces ⁴	NR R-13	NR R-13	R-Value =
Walls ⁵ : Ext. and Adj. Frame Mass	R-13	R-13	R-Value =
Insulation on wall interior	R-4	R-6	R-Value =
Insulation on wall exterior	R-3	R-4	R-Value =
Ceilings ⁵	R-30	R-38	R-Value =
Air infiltration	Blower door test is required on the building envelope to verify leakage ≤ 1 ACH; test report provided to code official.		Total leakage = ACH Test report attached? Yes <input type="checkbox"/> No <input type="checkbox"/>
Air distribution system ⁶ : Air handling unit Duct R-value	Not allowed in attic R-value ≥ R-8 (supply in attics) or ≥ R-6 (all other duct locations)		Location: R-Value =
Air leakage ⁶ : Duct test	Postconstruction test Total leakage ≤ 4 cfm/100 s.f. Rough-in test Total leakage ≤ 4 cfm/100 s.f. (air handler installed) Total leakage ≤ 3 cfm/100 s.f. (air handler not installed)		Total leakage = _____ cfm/100s.f. Test report Attached? Yes <input type="checkbox"/> No <input type="checkbox"/>
Ducts in conditioned space	Test not required if all ducts and AHU are in conditioned space		Location:
Air conditioning system: Central system ≤ 65,000 Btu/h Room unit or PTAC Other:	Minimum federal standard required by NAECA ⁷ : SEER 14.0 EER (from Table C403.2.3(3)) See Tables C403.2.3(1)-(11)		SEER = EER =
Heating system: Heat pump ≤ 65,000 Btu/h Gas furnace, non-weatherized Oil furnace, non-weatherized Other:	Minimum federal standard required by NAECA ⁷ : HSPF 8.2 AFUE 80% AFUE 83%		HSPF = AFUE = AFUE =
Water heating system (storage type): Electric ⁸	Minimum federal standard required by NAECA ⁷ : 40 gal: EF = 0.92 50 gal: EF = 0.90		Gallons = EF =
Gas fired ⁸	40 gal: EF = 0.59 50 gal: EF = 0.58		Gallons = EF =
Other (describe):			EF =

NR = No requirement.

- (1) Each component present in the As Proposed home must meet or exceed each of the applicable performance criteria in order to comply with this code using this method.
- (2) For impact rated fenestration complying with Section R301.2.1.2 of the *Florida Building Code, Residential* or Section 1609.1.2 of the *Florida Building Code, Building*, the maximum U-factor shall be 0.65 in Climate Zone 2. An area-weighted average of U-factor and SHGC shall be accepted to meet the requirements, or up to 15 square feet of glazed fenestration area are exempted from the U-factor and SHGC requirement based on Sections R402.3.1, R402.3.2 and R402.3.3.
- (3) One side-hinged opaque door assembly up to 24 square feet is exempted from this U-factor requirement.
- (4) R-values are for insulation material only as applied in accordance with manufacturer's installation instructions. For mass walls, the "interior of wall" requirement must be met except if at least 50 percent of the insulation required for the "exterior of wall" is installed exterior of, or integral to, the wall.
- (5) Ducts & AHU installed "substantially leak free" per Section R403.3.2. Test required by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), *Florida Statutes*. The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope.
- (6) Minimum efficiencies are those set by the *National Appliance Energy Conservation Act* of 1987 for typical residential equipment and are subject to NAECA rules and regulations. For other types of equipment, see Tables C403.2.3(1-11) of the *Commercial Provisions of the Florida Building Code, Energy Conservation*.
- (7) For other electric storage volumes, minimum EF = 0.97 - (0.00132 * volume).
- (8) For other natural gas storage volumes, minimum EF = 0.67 - (0.0019 * volume).

TABLE R402B MANDATORY REQUIREMENTS

Component	Section	Summary of Requirement(s)	Check
Air leakage	R402.4	To be caulked, gasketed, weatherstripped or otherwise sealed per Table R402.4.1.1. Recessed lighting: IC-rated as having ≤ 2.0 cfm tested to ASTM E 283. Windows and doors: 0.3 cfm/sq. ft. (swinging doors: 0.5 cfm/sf) when tested to NFRC 400 or AAMA/WDMA/CSA 1011.5, 2/A440. Fireplaces: Tight-fitting flue dampers & outdoor combustion air.	
Programmable thermostat	R403.1.2	A programmable thermostat is required for the primary heating or cooling system.	
Air distribution system	R403.3.2 R403.3.4	Ducts shall be tested as per Section R403.3.2 by either individuals as defined in Section 553.993(5) or (7), <i>Florida Statutes</i> , or individuals licensed as set forth in Section 489.105(3) (f), (g) or (i), <i>Florida Statutes</i> . Air handling units are not allowed in attics.	
Water heaters	R403.5	Comply with efficiencies in Table C404.2. Hot water pipes insulated to $\geq R-3$ to kitchen outlets, other cases. Circulating systems to have an automatic or accessible manual OFF switch. Heat trap required for vertical pipe risers.	
Swimming pools & spas	R403.10	Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency is 82%. Heat pump pool heaters minimum COP is 4.0.	
Cooling/heating equipment	R403.7	Sizing calculation performed & attached. Special occasion cooling or heating capacity requires separate system or variable capacity system.	
Lighting equipment	R404.1	At least 75% of permanently installed lighting fixtures shall be high-efficacy lamps.	

