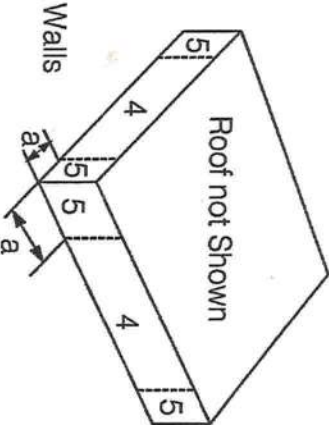
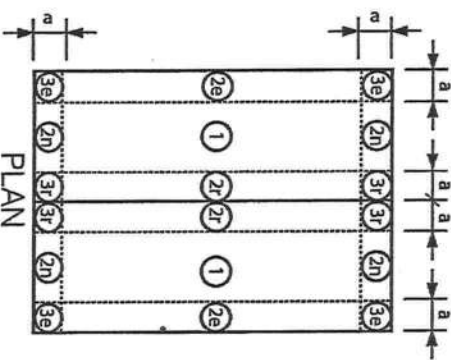


Roof Wind Pressures for Positive & Negative Internal Pressure (+/- GCPI) - Parallel to Ridge
All wind pressures include a load factor of 0.6

Roof Var	Start Dist	End Dist	Cp_min	Cp_max	GCPI	Pressure Pn_min*	Pressure Pn_max	Pressure Pn_max
	ft	ft				psf	psf	psf
Roof (+Y)	0.000	6.500	-0.180	-0.900	0.180	0.34	-4.22	-7.42
Roof (-Y)	0.000	6.500	-0.180	-0.900	0.180	0.34	-4.22	-7.42
Roof (+Y)	6.500	13.000	-0.180	-0.900	0.180	0.34	-4.22	-7.42
Roof (-Y)	6.500	13.000	-0.180	-0.900	0.180	0.34	-4.22	-7.42
Roof (+Y)	13.000	26.000	-0.180	-0.500	0.180	0.34	-4.22	-3.11
Roof (-Y)	13.000	26.000	-0.180	-0.500	0.180	0.34	-4.22	-3.11
Roof (+Y)	26.000	66.000	-0.180	-0.300	0.180	0.34	-4.22	-0.95
Roof (-Y)	26.000	66.000	-0.180	-0.300	0.180	0.34	-4.22	-0.95

Notes Roof Pressures:
Start Dist = Start Dist from Windward Edge
End Dist = End Dist from Windward Edge
Cp_Max = Largest Coefficient Magnitude
Cp_Min = Smallest Coefficient Magnitude
Pn_max = qh*G*Cp_max - qh*G*GCPI
Pn_min = qh*G*Cp_min - qh*G*GCPI
OH = Overhang X = Dir along Ridge Y = Dir Perpendicular to Ridge Z = Vertical
* The smaller uplift pressures due to Cp_Min can become critical when wind is combined with roof live load or snow load; Load combinations are given in ASCE 7
+ Pressures Acting TOWARD Surface
- Pressures Acting AWAY from Surface

Components and Cladding (CSC) Calculations per Ch 30 Part 1:



1. THIS RESIDENCE SHALL BE CONSTRUCTED IN ACCORD WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2020 7TH EDITION
2. ALL CEILING SHEETROCK SHALL BE MIN 5/8"
3. SEPERATION BETWEEN GARAGE SHALL BE 5/8" SHEETROCK MIN.
4. DOOR SEPERATION GARAGE FROM LIVING AREA SHALL BE 1/2 HR FIRE RATED
5. ALL AREAS EXCEPT WHERE GFI RECEPTICALS ARE REQUIRED RECEPTICALS SHALL BE ARC FAULT
6. ELECTRICAL DESIGN BY ELECTRICAL CONTRACTOR.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING.
8. SMOKE DETECTORS SHALL BE WIRED TO ALARM SIMUTANIOUS WITH BATTERY BACKUP.

1-All construction shall comply with Florida Building Code 8th edition 2023.

ULTIMATE WIND SPEED: 130
NOMINAL WIND SPEED: 108
WIND EXPOSURE CATEGORY: B
RISK CATEGORY II
INTERNAL PRESSURE COEFFICIENT GCPI= +/- 0.18
DESIGN PRESSURE PER FBC CHAPTER 16, INCLUDING ASCE 7-22 LOAD CALCULATIONS
ROOF LIVE LOAD =20 PSF FLOOR LIVE LOAD 40 PSF
ROOF DEAD LOAD = 7.5 PSF
MIN SOIL BEARING 2500 PSF
TRUSS BEARING LOAD EACH END 5400LB
TRUSS UPLIFT @ POST 3600LBS

1. Wood framing and fasteners to meet NDS-2018 requirements.
2. Fastener requirements: (1) All nails are Common galvanized; (2) all bolts are to be galvanized steel and include nuts and washers; and (3) all other hardware (Simpson, etc.) is to be installed according to manufacturer's specifications and recommendations. Nailing (size and number) shall satisfy Tables 2306.2.(1), 2306.3.(1) and 2306.3.(#) FBC unless otherwise indicated. Note: fasteners exposed to the weather are to be treated for weather resistance and compatible with the type of pressure treated wood used (connectors, nails, bolts, nuts and washers).

Concrete Construction Notes

1. Concrete work shall conform to "Building Code Requirements for Reinforced Concrete" (ACI-318) and "Specifications for Structural Concrete" (ACI-301), Latest Edition.
2. Concrete mix shall conform to the following specifications. All concrete mixes shall contain a water-reducing admixture conforming to ASTM C-494. Air-entraining admixture shall conform to ASTM C-260.

CONCRETE MIX A

Ultimate Compressive Strength @ 28 days 3,000 PSI
Slump Range 4" +/- 1"
Maximum Aggregate Size 1"
Entrained Air None
Dry Weight per Cubic Foot 150 #



- 3 All concrete shall be cured for a minimum of 28 days. If forms for vertical surfaces are removed prior to the end of the curing period, spray surfaces with liquid membrane curing compound.
4. Reinforcing steel shall conform to ASTM A615, Grade 40 (Fy=40 ksi). Lap continuous bars for tension lap splice per ACI-318, unless otherwise noted. Provide corner bars of same size and spacing as horizontal wall reinforcement. Cover for concrete reinforcing steel shall be in accordance with ACI-318, Paragraph 7.7.
5. Welded wire fabric (WWF) shall conform to ASTM A185. Lap sheets two mesh spaces and wire tie adjacent sheets together securely. Cut alternate reinforcement at control joints.
6. All slabs on grade shall have construction or control joints not to exceed 10' - 0" spacing, unless otherwise noted.
7. Electrical conduit and other pipes to be embedded in structural concrete floor slabs or walls shall be placed in accordance with the requirements of ACI-318, Paragraph 6.3.

SG FT	1000
LIVING AREA	400
LOUNGE AREA	3500
BARN AREA	4900
TOTAL	

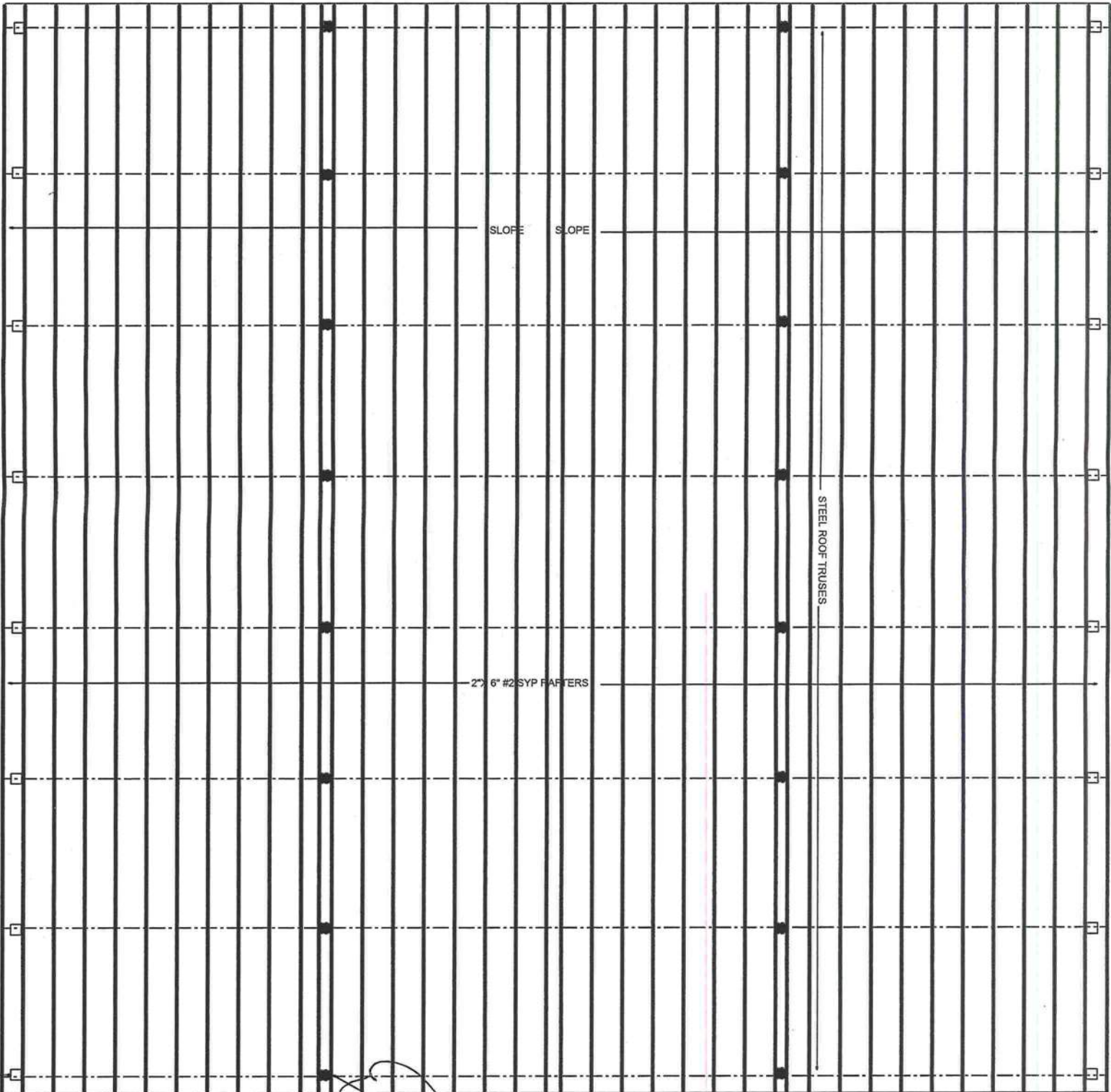
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FL Reg # 43922
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134 SW SEDGEFIELD FARMS GLEN
FT WHITE, FL. DB23-793



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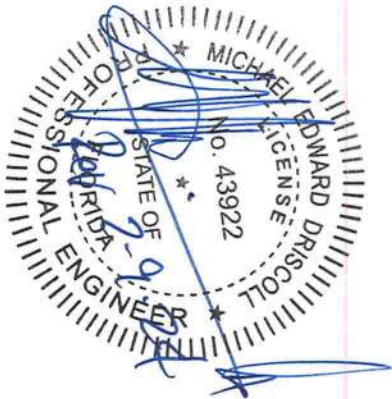
ROOF PLAN VIEW

3/16" = 1'-0"

6"X 6" pt post
24" dia. x 48" deep
post footing (typ)

6"X 6" pt post
24" dia. x 48" deep
post footing (typ)

WFO: 2-8-24



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SHEET:

3

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