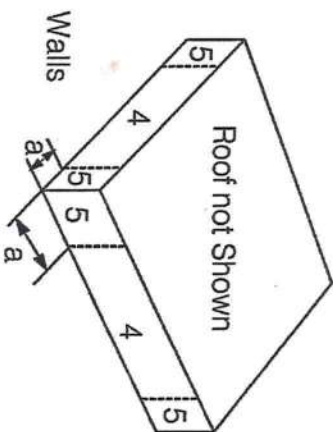
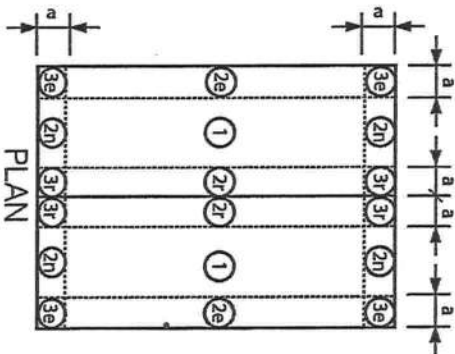


Roof Wind Pressures for Positive & Negative Internal Pressure (+/- GCPI) - Parallel to Ridge
All wind pressures include a load factor of 0.6

Roof Var	Start Dist	End Dist	Cp_min	Cp_max	GCPI	Pressure Pn_min*	Pressure Pn_max	Pressure Pp_min*	Pressure Pp_max
	ft	ft				psf	psf	psf	psf
Roof (+x)	0.000	6.500	-0.180	-0.900	0.180	0.34	-7.42	-11.98	-11.98
Roof (-x)	0.000	6.500	-0.180	-0.900	0.180	0.34	-7.42	-11.98	-11.98
Roof (+y)	6.500	13.000	-0.180	-0.900	0.180	0.34	-7.42	-11.98	-11.98
Roof (-y)	6.500	13.000	-0.180	-0.900	0.180	0.34	-7.42	-11.98	-11.98
Roof (+x)	13.000	26.000	-0.180	-0.500	0.180	0.34	-4.22	-3.11	-7.67
Roof (-x)	13.000	26.000	-0.180	-0.500	0.180	0.34	-4.22	-3.11	-7.67
Roof (+y)	26.000	66.000	-0.180	-0.300	0.180	0.34	-4.22	-0.95	-5.52
Roof (-y)	26.000	66.000	-0.180	-0.300	0.180	0.34	-4.22	-0.95	-5.52

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
Pp_Max = qh*G*Cp_max - qhp*(+GCPI)
Pp_Min = qh*G*Cp_min - qhp*(+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 (C/C) 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

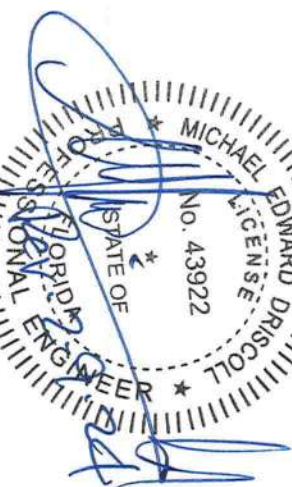
1. Wood framing and fasteners to meet NDS-2018 requirements.
2. Fastener requirements: (1) All nails are Common galvanized; (2) all bolts are to be galvanized steel and include nuts and washers; and (3) all other hardware (Simpson, etc.) is to be installed according to manufacturer's specifications and 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 the 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.

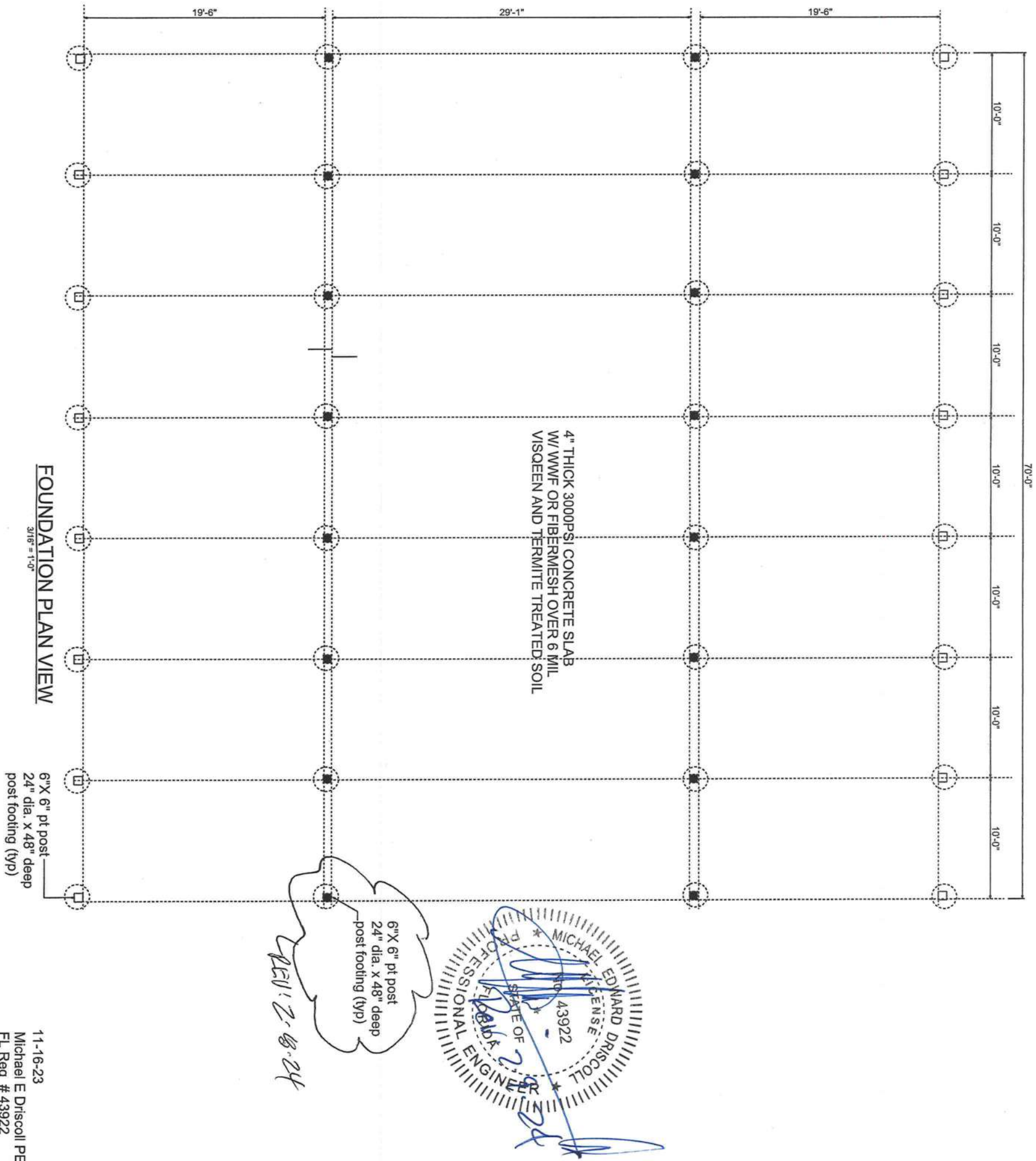
50 FT	
LIVING AREA	1000
LOUNGE AREA	400
BARN AREA	3500
TOTAL	4900

11-16-23 rev: 2-8-24
Michael E Driscoll PE
FL Reg # 43922
Structural only

COPELAND
134 SW SEDGEFIELD FARMS GLEN
FT WHITE, FL. DB23-793



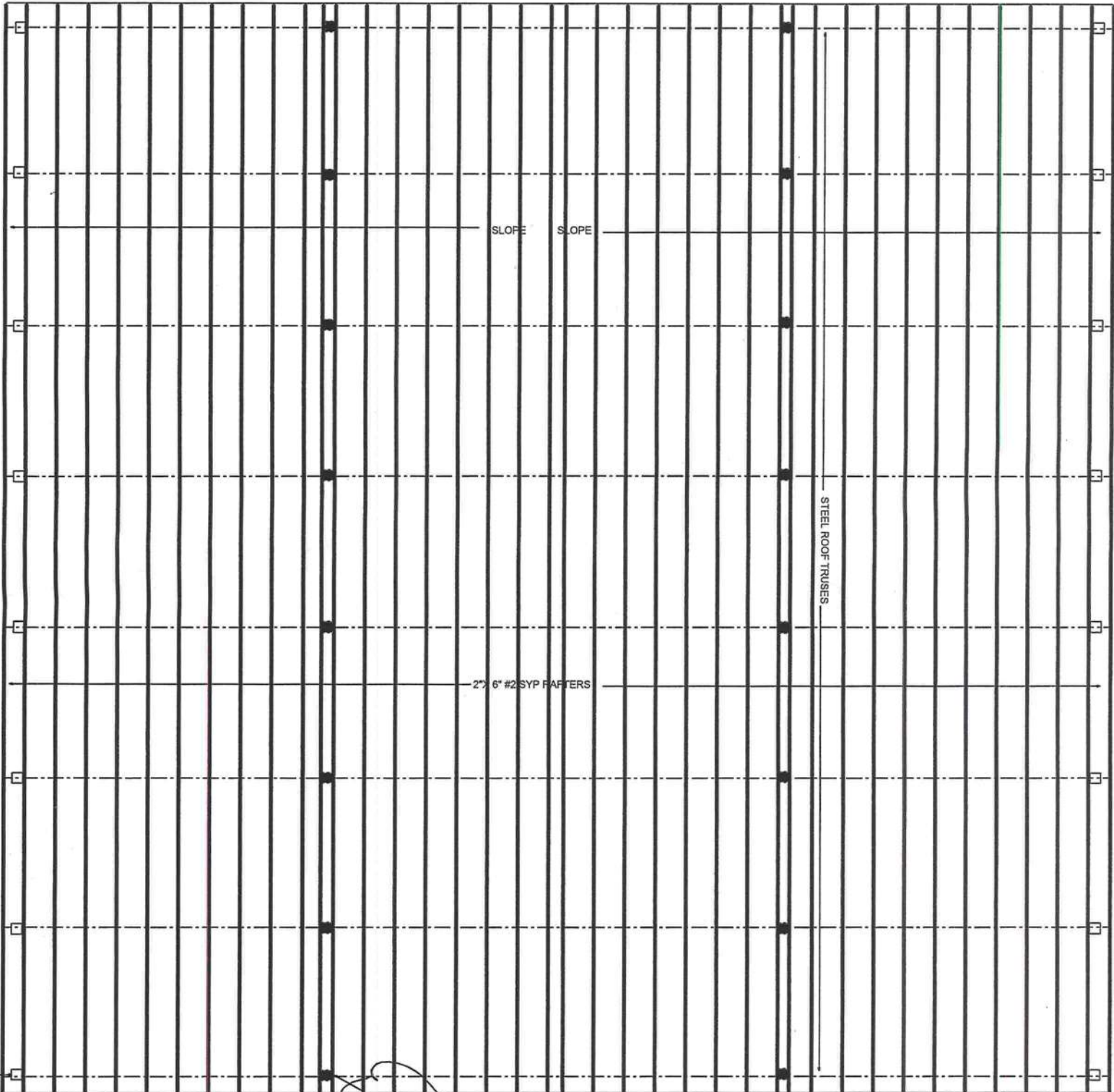
REV: 2-8-24



ROOF PLAN VIEW

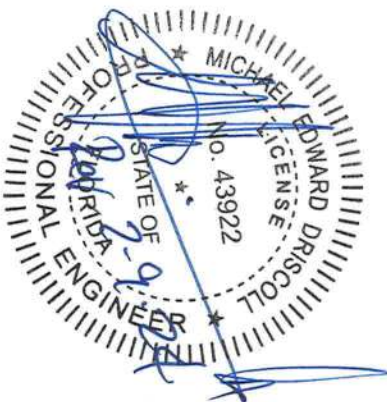
3/16" = 1'-0"

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)

ME: 2-8-24



11-16-23
Michael E Driscoll PE
FL Reg # 43922



DRISCOLL ENGINEERING, INC.
CONSULTING ENGINEERS
PO BOX 357577 PH (352) 331-1513 CA 8690
GAINESVILLE, FL 32606 FX (352) 505-3366

COPELAND
134 SW SEDGEFIELD FARMS GLEN
FT WHITE, FL. DB23-793

SHEET:

3

PROFESSIONAL SERVICES BY
DRISCOLL ENGINEERING, INC.
PO BOX 357577
GAINESVILLE, FL 32635
PH (352) 331-1513
CA 8690

PLANS AND SPECIFICATIONS

The plans and specifications presented herein are applicable only for the anticipated construction at the locations shown. If construction plans change, the Design Professional should be notified so the plans and specifications can be re-evaluated. The Design Professional reserves the right to refuse to prepare additional plans and specifications if the intent of the plans and specifications is not to construct the project as shown. If changes and recommendations are needed, the Design Professional warrants that the plans and specifications combined herein, have been prepared in accordance with generally accepted professional engineering practice. No other warranties are implied or expressed.

CORPORATE PROTECTION

It is understood and agreed that the Design Professional's basic services under this Agreement do not include project observation or review of the Contractor's performance or any other construction phase services, and that such services will be provided by the Client. The Client assumes all responsibility for interpretation of the Contractor Documents and for construction methods, materials, and workmanship. The Design Professional and the Design Professional that may be in any way connected thereto.

In addition, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any loss, claim or cost, including reasonable attorneys' fees, arising out of or from the performance of the Design Professional's services by other person or entities and from any and all claims arising from modifications, clarifications, interpretations, adjustments or changes made to Contract Documents to reflect changed field or other conditions, except for claims arising from the sole negligence or willful misconduct to the Design Professional.

OWNERSHIP OF INSTRUMENTS OF SERVICE

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Design Professional as instruments of service shall remain the property of the Design Professional. The Design Professional shall retain all common law, statutory and other reserved rights, including the copyright therein.

DEFECTS IN SERVICE

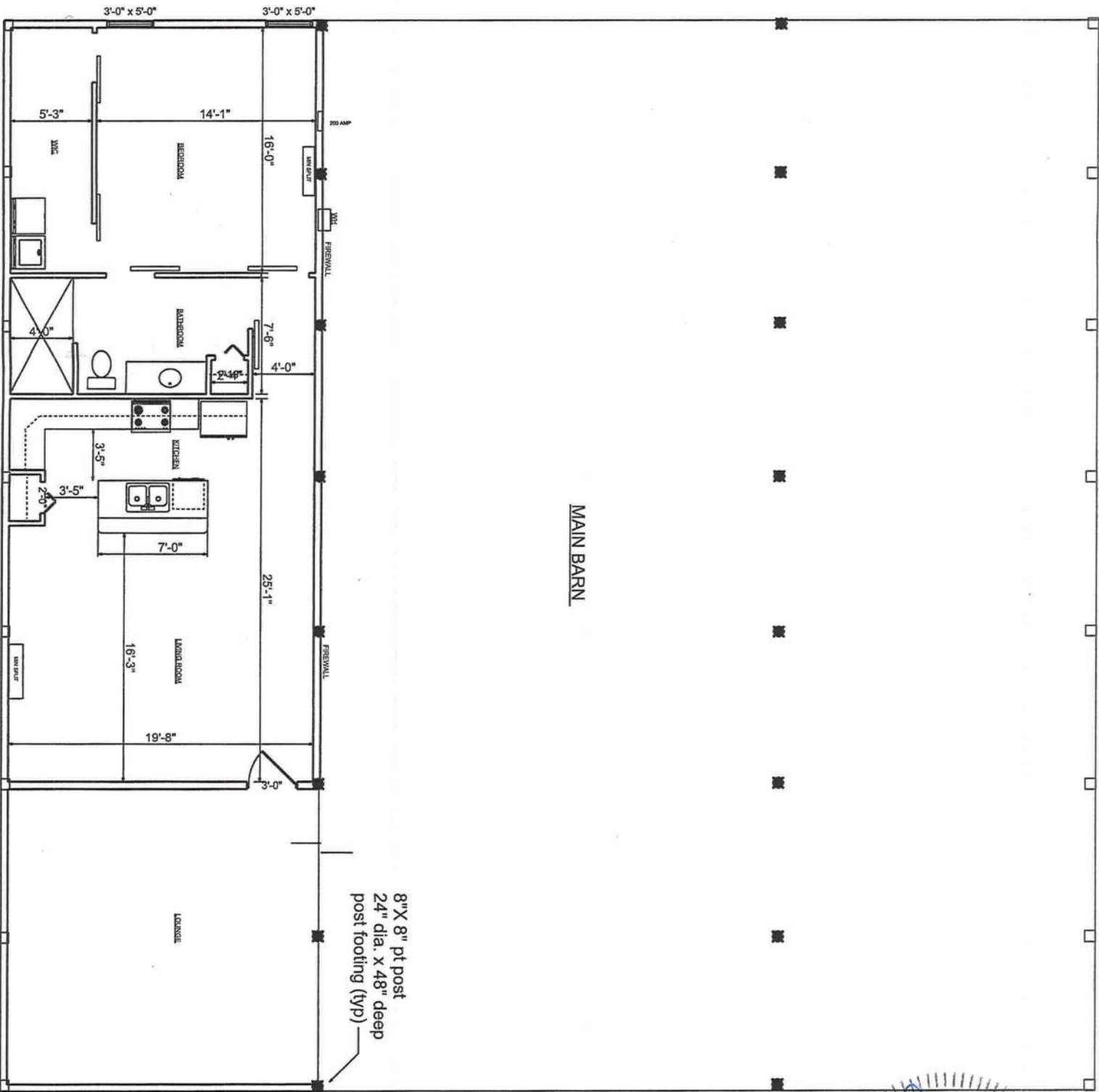
The Client shall promptly report to the Design Professional any defects or suspected defects in the Design Professional's work or services of which the Client becomes aware, so that the Design Professional may take measures to minimize the consequences of such a defect. The Client warrants that the use of the site will impose a similar notification requirement on the Design Professional. The Design Professional shall not be responsible for the work of subcontractors at any level to contain a like requirement. Failure by the Client and the Client's contractors or subcontractors to notify the Design Professional shall relieve the Design Professional of the costs of remedying the defects above the sum such remedy would have cost had prompt notification been given.

VERIFICATION OF EXISTING CONDITIONS

Inasmuch as the remodeling and/or rehabilitation of an existing building requires that certain assumptions be made regarding existing conditions, and because some of these assumptions may not be verifiable without expending additional sums of money or destroying otherwise adequate or salvageable portions of the building, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any loss, claim or cost, including reasonable attorneys' fees, arising out of or from the performance of the Design Professional's services by other person or entities and from any and all claims arising from modifications, clarifications, interpretations, adjustments or changes made to Contract Documents to reflect changed field or other conditions, except for claims arising from the sole negligence or willful misconduct of the Design Professional.

FRONT

MAIN BARN



FLOOR PLAN VIEW

3/16" = 1'-0"

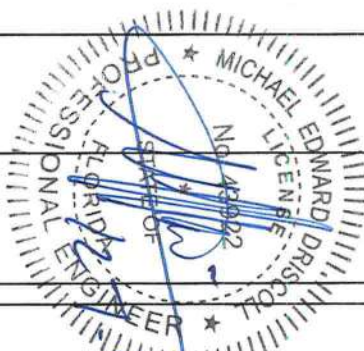
6"X 6" pt post
24" dia. x 48" deep
post footing (typ)

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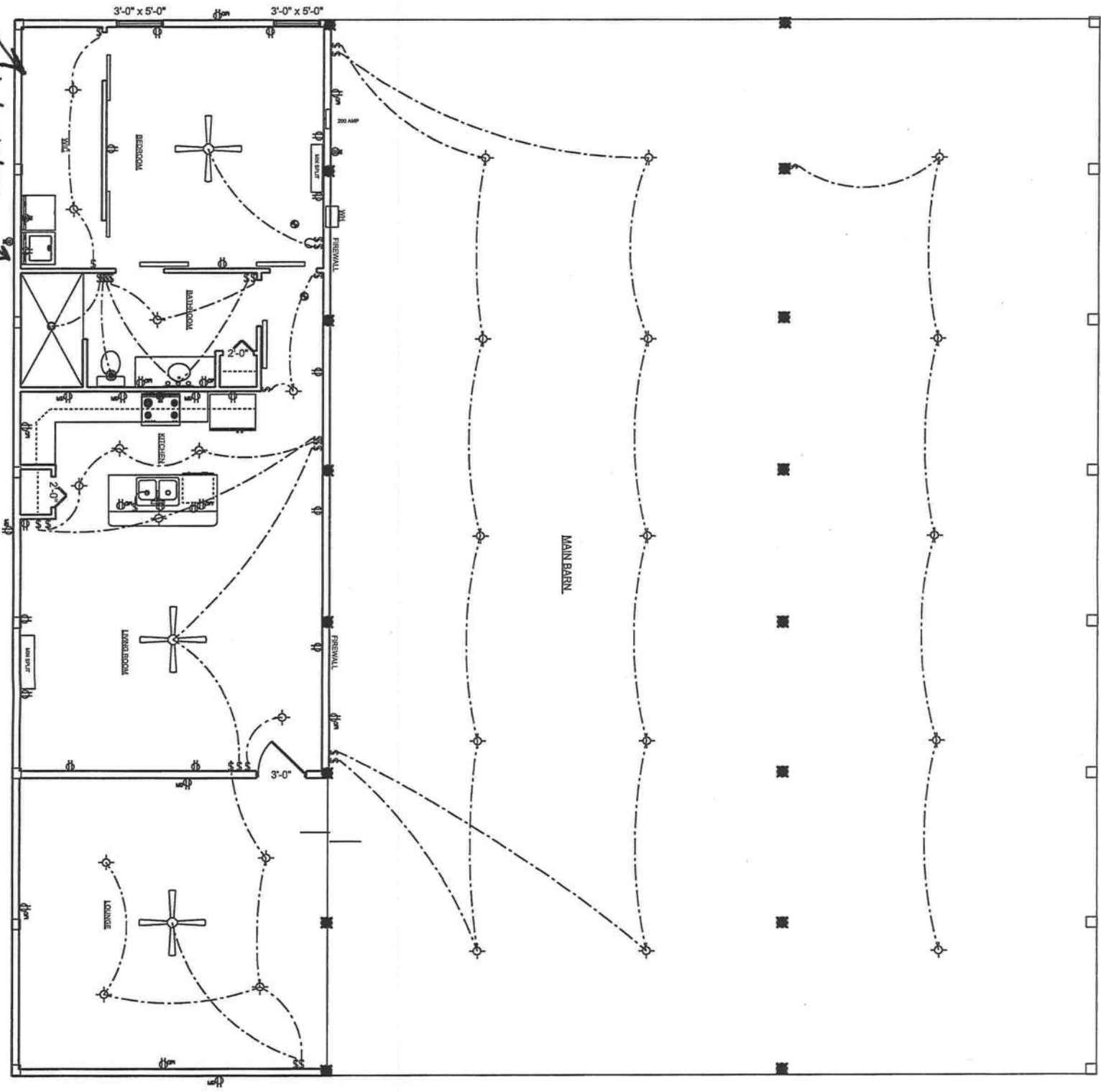


200 AMP
Meter can/combo

200 AMP
Panel

Hot water
heaters in
Corner

Dual zone mini split
A/c heat system



ELECTRICAL PLAN VIEW
3/16" = 1'-0"

Electrical symbols	
1	single pole switch
2	dimmer switch
3	3 way switch
4	110 ac outlet (single or double)
5	220 OUTLET
6	GFI outlet
7	switched outlet
8	std overhead light
9	recessed light
10	sp/1 recessed fan to dim
11	wall mount light fixture
12	std overhead light
13	double flood light
14	track bar light
15	vanity bar light
16	fluorescent light
17	ceiling fan light
18	smoke/carbon monoxide detector
19	phone outlet
20	tv outlet
21	THERMOSTAT

UNDERGROUND POWER

11-16-23