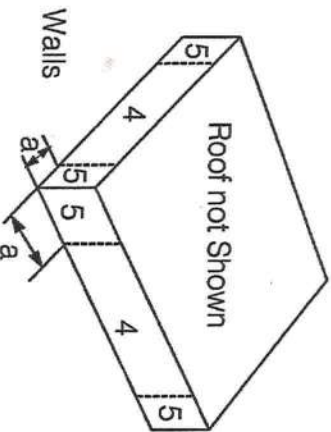
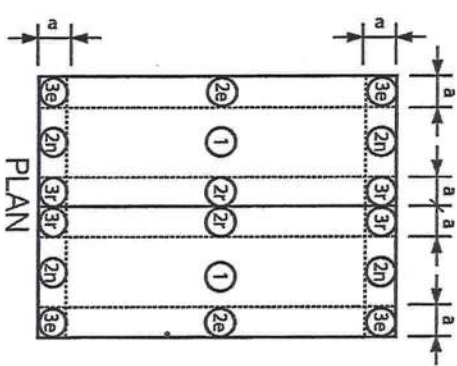


Roof Wind Pressures for Positive & Negative Internal Pressure (+/- GCPI) - Parallel to Ridge  
All wind pressures include a load factor of 0.6

| Roof Var  | Start Dist<br>ft | End Dist<br>ft | Cp_min | Cp_max | GCPI  | Pressure<br>Pn_min*<br>psf | Pressure<br>Pn_max<br>psf | Pressure<br>Pp_max<br>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  
Pp\_Max = qh\*G\*Cp\_max - qip\*(+GCPI)  
Pn\_Min\* = qh\*G\*Cp\_min - qip\*(+GCPI)  
Pn\_Max = qh\*G\*Cp\_max - qip\*(-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

SHEARWALLS  
100'-0" LONGITUDINAL  
30'-0" TRANSVERSE

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 3600LB

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.

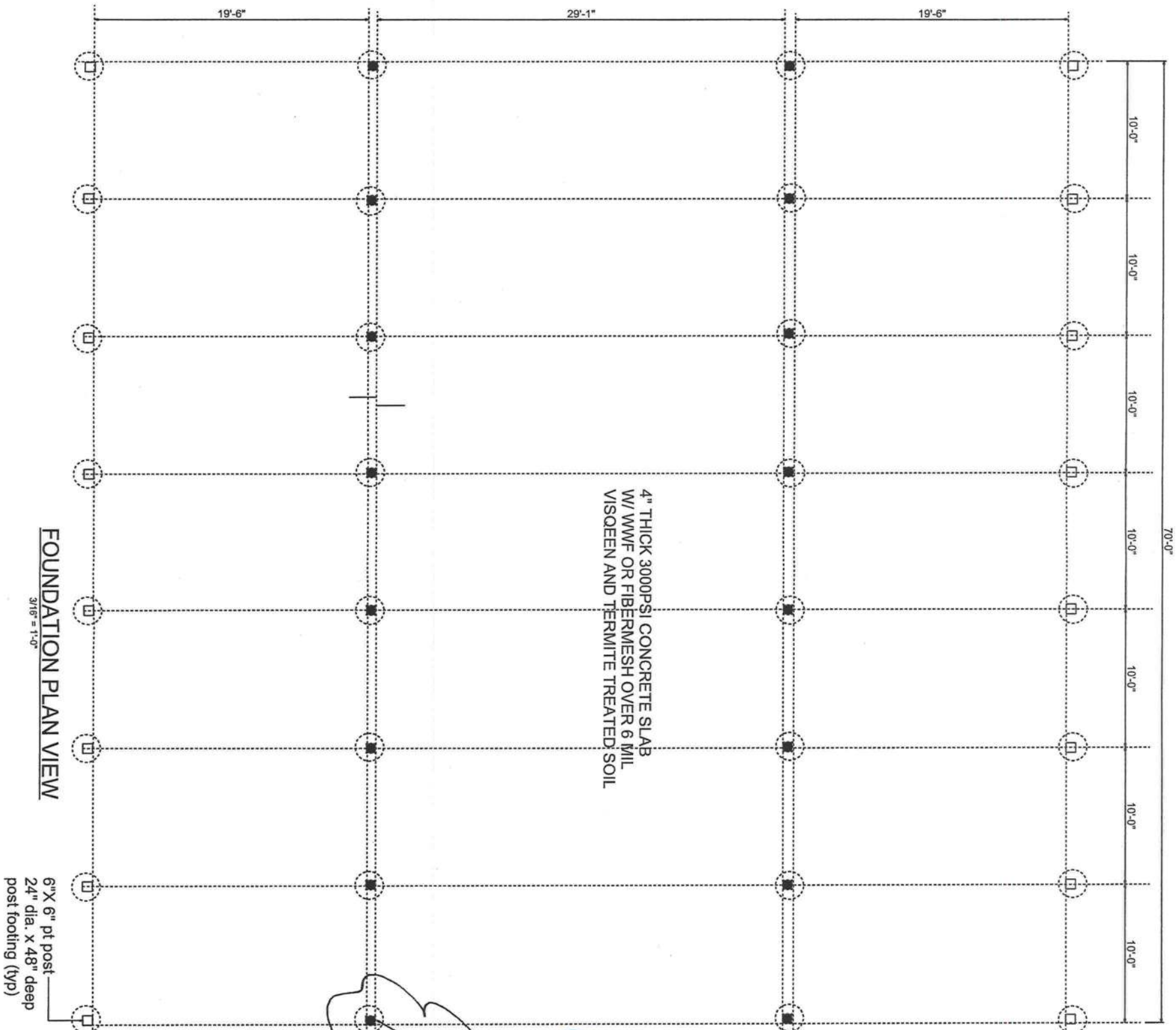
| 5G FT       |      |
|-------------|------|
| LIVING AREA | 1000 |
| LOUNGE AREA | 400  |
| BARN AREA   | 3500 |
| TOTAL       | 4900 |

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







FOUNDATION PLAN VIEW

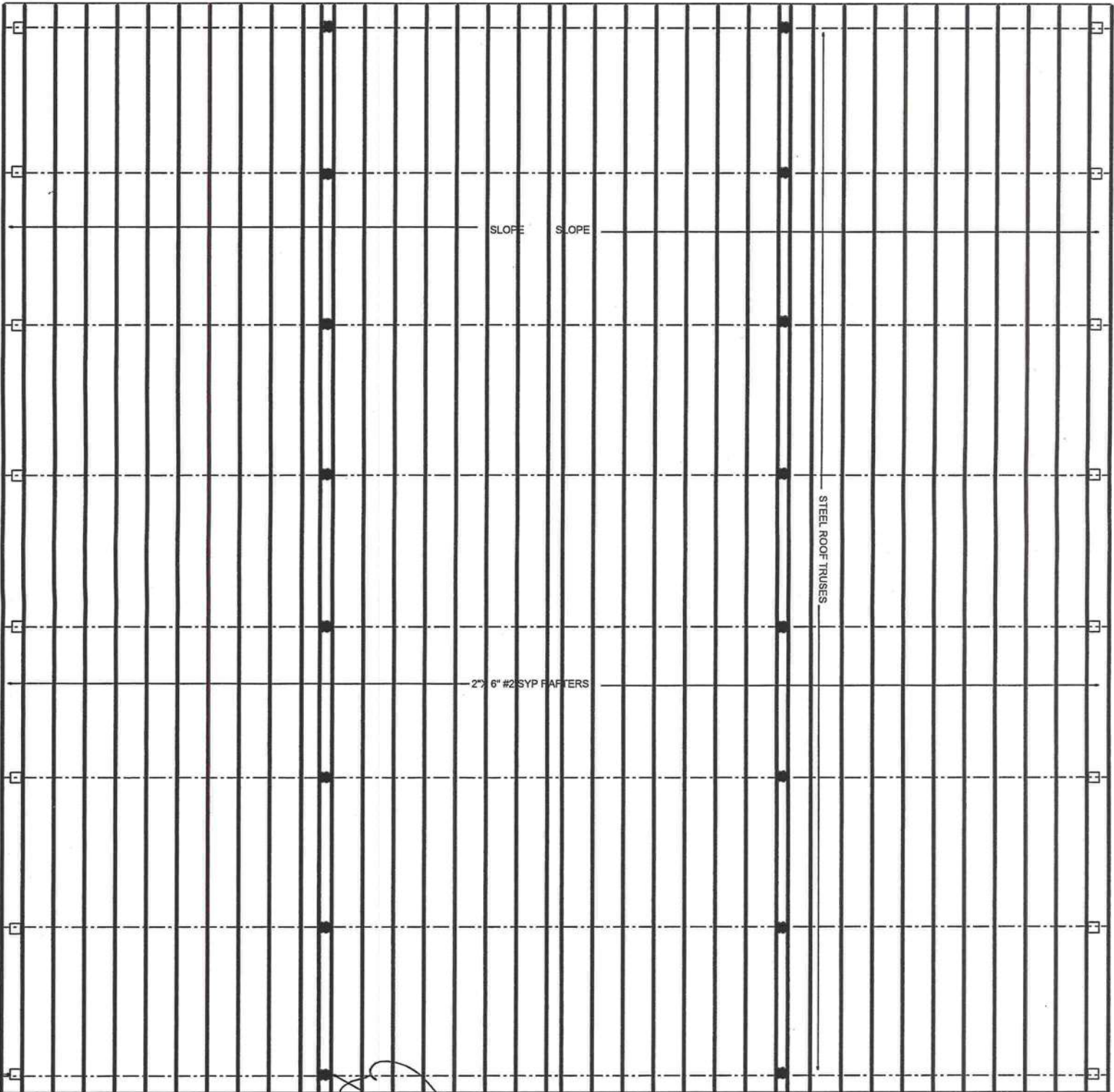
3/16" = 1'-0"

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)







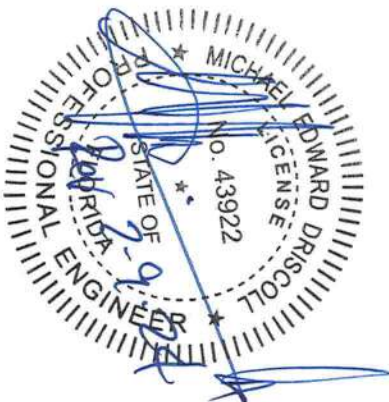
ROOF PLAN VIEW

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



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

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



PROFESSIONAL SERVICES BY  
DRISCOLL ENGINEERING, INC.  
PO BOX 357577  
GAINESVILLE, FL 32606  
PH (352) 331-1513  
CA 8890

**PLANS AND SPECIFICATIONS.**  
The plans and specifications presented herein are applicable only for the anticipated construction at this specific location. If conditions at the construction site differ from those assumed, the Design Professional should be notified so the plans and specifications can be re-evaluated. The Design Professional should be given the opportunity to review final plans and specifications to see if the intent of the plans and specifications has been followed and/or if supplemental details and recommendations are needed. The Design Professional warrants that the plans and specifications were prepared in accordance with the standards of practice and 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 any and all design services that are not specifically identified 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 observation and supervision and waives any claims against 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 attorney's fees and costs of defense, arising or resulting from the performance of such 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 changes field or otherwise made by the Client or its representatives in 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 are the property of the Design Professional. The Design Professional reserves all common law, statutory and other reserved rights, including the copyright therein.

**DEFECTS IN SERVICE.**

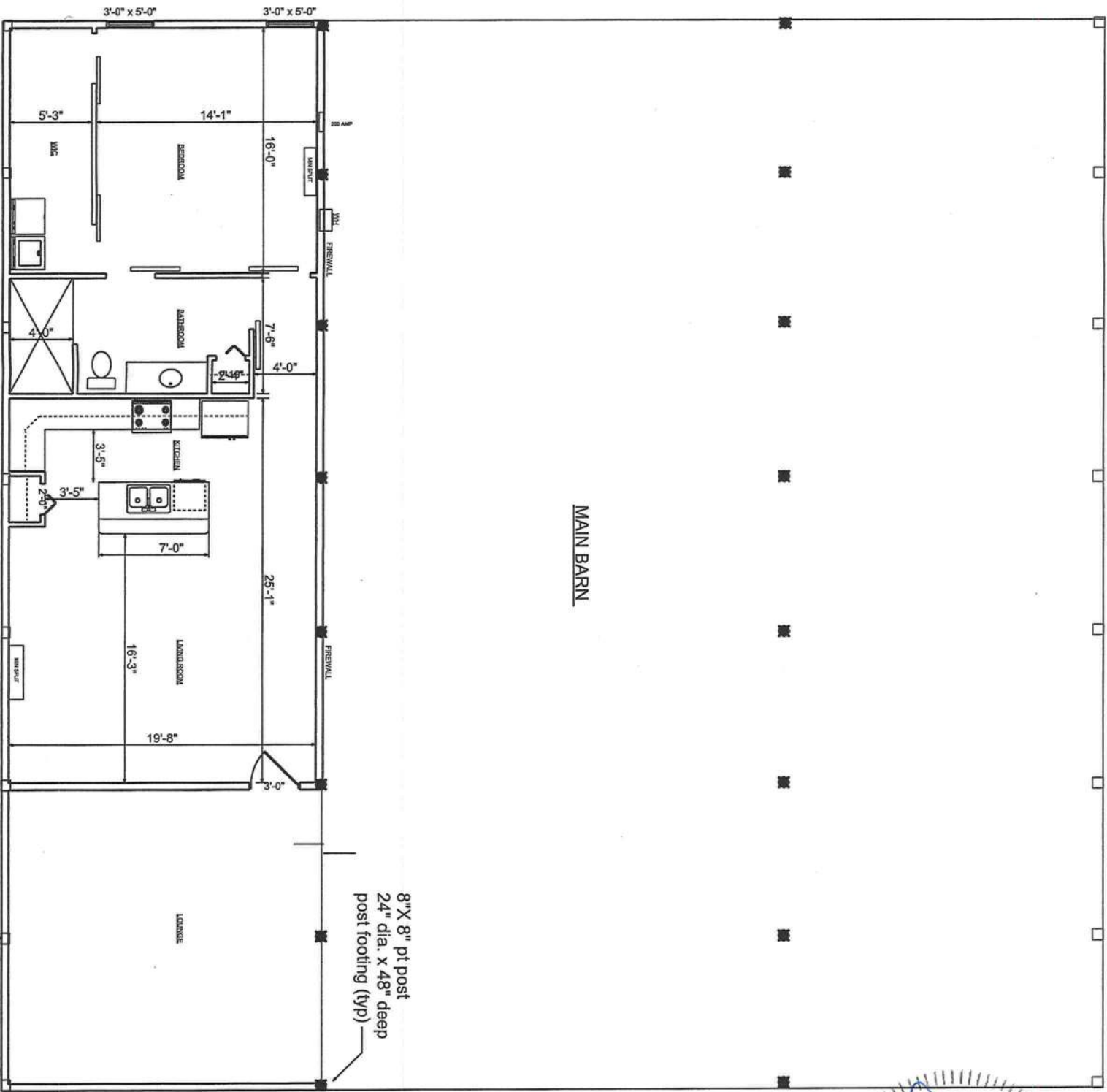
The Client shall promptly report to the Design Professional any defects or suspected defects in the Design Professional's work. The Design Professional shall investigate and, if a defect is found, the Design Professional may take measures to minimize the consequences of such a defect. The Client warrants that he or she will impose a similar notification requirement on all contractors in his or her Client/Contractor contract and shall require all subcontractors at any level to conform to 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 any and all liability for such defects. The Design Professional 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, the Design Professional assumes that the Design Professional's work is based on the Design Professional's assumptions may not be verifiable without conducting additional studies or tests. The Design Professional warrants that he or she will impose a similar notification requirement on all contractors in his or her Client/Contractor contract and shall require all subcontractors at any level to conform to 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 any and all liability for such defects. The Design Professional would have cost had prompt notification been given.

FRONT

MAIN BARN



FLOOR PLAN VIEW

3/16" = 1'-0"

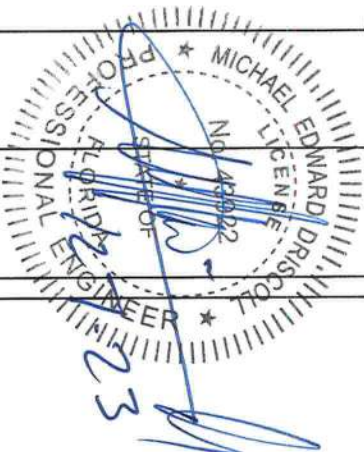
6"X 6" pt post  
24" dia. x 48" deep  
post footing (typ)

8"X 8" pt post  
24" dia. x 48" deep  
post footing (typ)



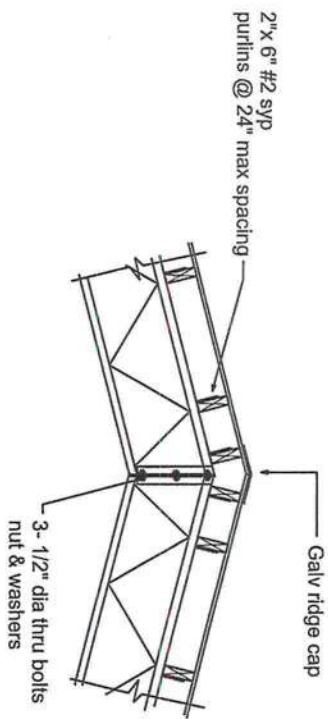
DRISCOLL ENGINEERING, INC.  
CONSULTING ENGINEERS  
PO BOX 357577  
GAINESVILLE, FL 32606  
PH (352) 331-1513  
FX (352) 505-3366  
CA 8890

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

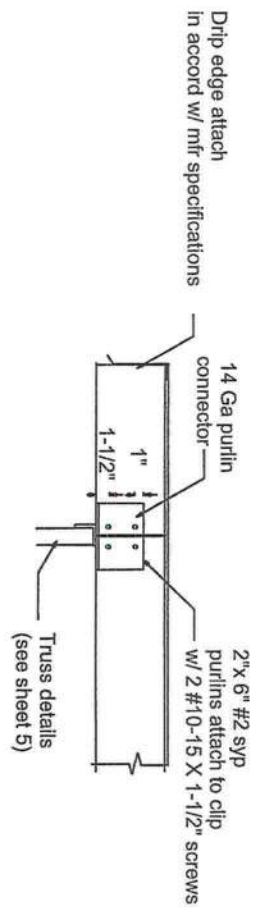


SHEET:  
4

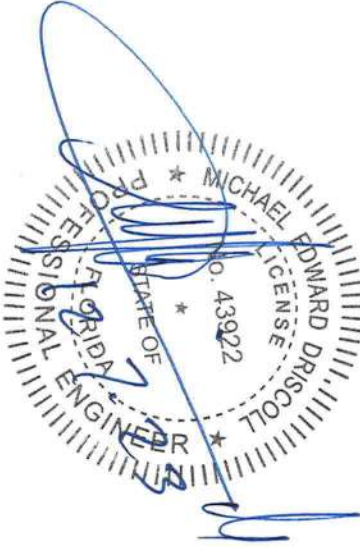
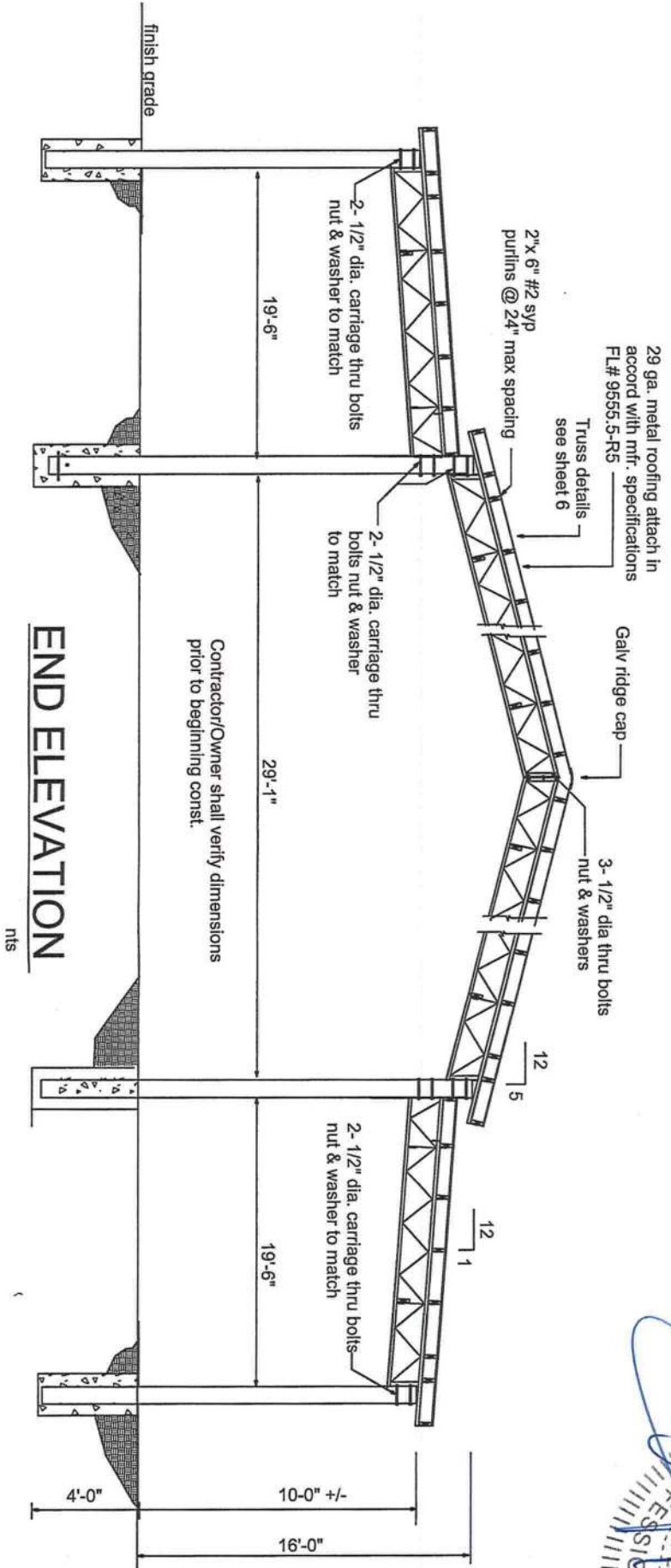
11-16-23  
Michael E Driscoll PE  
FL Reg # 43922



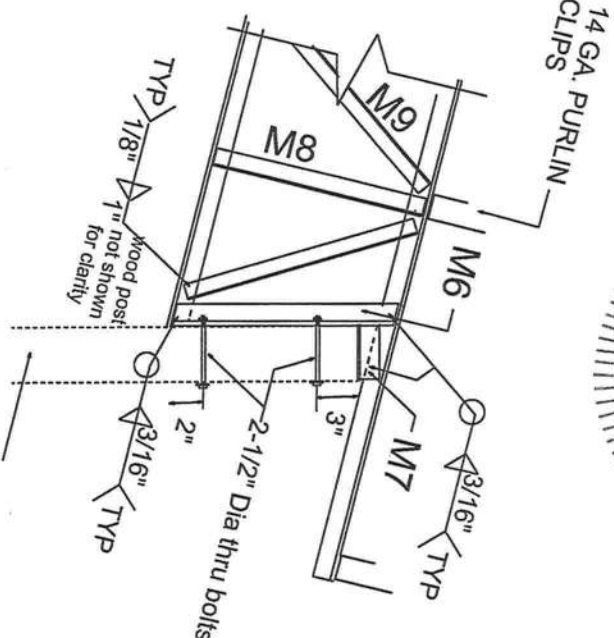
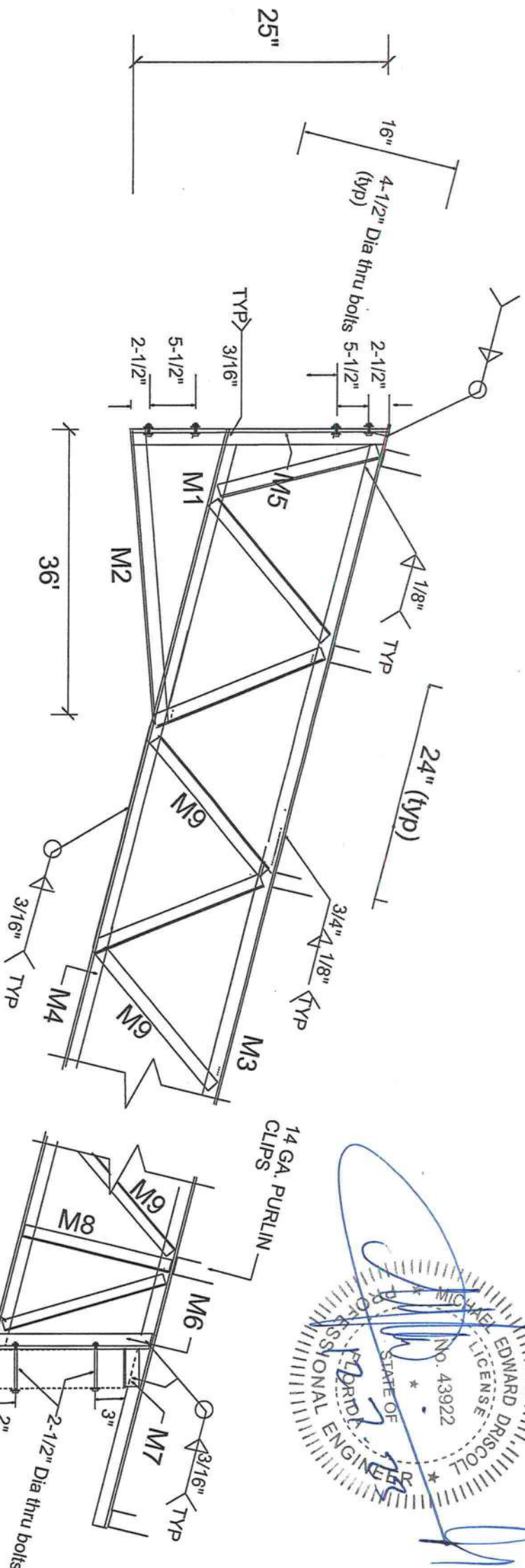
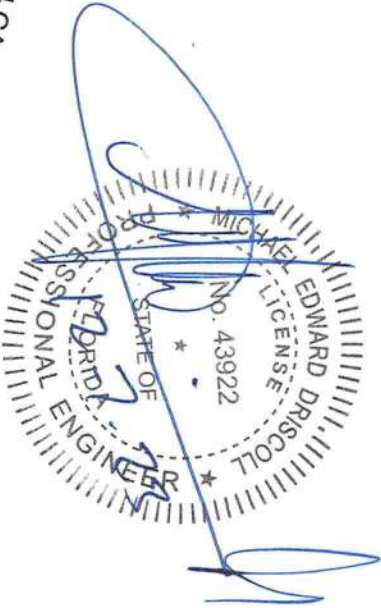
RIDGE CONNECTION DETAIL



PURLIN CONNECTION DETAIL







| No. | ELEMENT         | MATERIAL<br>(50 KSI) | DESCRIPTION               |
|-----|-----------------|----------------------|---------------------------|
| M1  | Collar Tie      | ASTM 572             | L 2"x 2" x 1/8"           |
| M2  | Collar Tie      | ASTM 572             | L 2"x 2" x 1/8"           |
| M3  | Top Chord       | ASTM 572             | L 2"x 2" x 1/8"           |
| M4  | Bottom Chord    | ASTM 572             | L 2"x 2" x 1/8"           |
| M5  | Center Vertical | ASTM 572             | L 2" x 2" x 3/16"         |
| M6  | End Vertical    | ASTM 572             | L 2"x 2" x 3/16"          |
| M7  | Bearing angle   | ASTM 572             | L 2" x 2" x 3/16"         |
| M8  | Inside vertical | ASTM 572             | L 1-1/2" x 1-1/2" x 3/16" |
| M9  | Diagonal web    | ASTM 572             | L 1-1/2" x 1-1/2" x 3/16" |

CONNECTOR SCHEDULE  
2" x 8" #2 syp purlin to 6" x 6" x 14 ga. clip. 2-#9 x 1-1/4" screws  
Truss to truss @ ridge 3-1/2" dia thru bolts & nut  
Wood post to truss- 2-1/2" dia thru bolts nut & washers  
Post to concrete see sheet 1

NOTES:

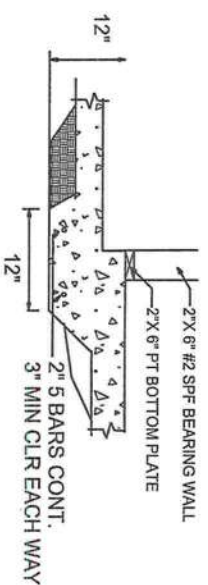
- 1-MATERIALS SHALL CONFORM TO STEEL ASTM 572.
- 2- ALL STEEL SHALL BE 50ksi IN ACCORD WITH CURRENT AISC MANUAL.
- 3- WELDING ELECTRODES TYPE E70XX
- 4- ALL WELDING SHALL BE IN ACCORD WITH CURRENT AWS REQUIREMENTS.
- 5-ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER.
- 6-BOLTS SHALL BE ASTM A325. w/ NUTS & WASHERS. (TYP)
- 7- WELD STRENGTH 70 KSI MIN.
- 8- ALL POSTS SHALL BE #2 DENSE PRESSURE TREATED GROUND CONTACT.
- 9- PRIMING & PAINTING SHALL BE DONE BY TRUSS MANUFACTURER.
- 10- MIN EDGE DISTANCE FOR BOLT HOLES SHALL BE 3/4" MIN
- 11-MAX TRUSS SPACING SHALL NOT EXCEED 12'-0" UNO.
- 12-THE DESIGNER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF POOR WORKMANSHIP, OR IMPROPER USE, AND ACCEPTS NO RESPONSIBILITY OR EXERCISES NO CONTROL WITH REGARD TO FABRICATION, HANDLING, AND INSTALLATION OF TRUSSES.



TRUSS DETAILS  
21' TO 40' MAX LENGTH

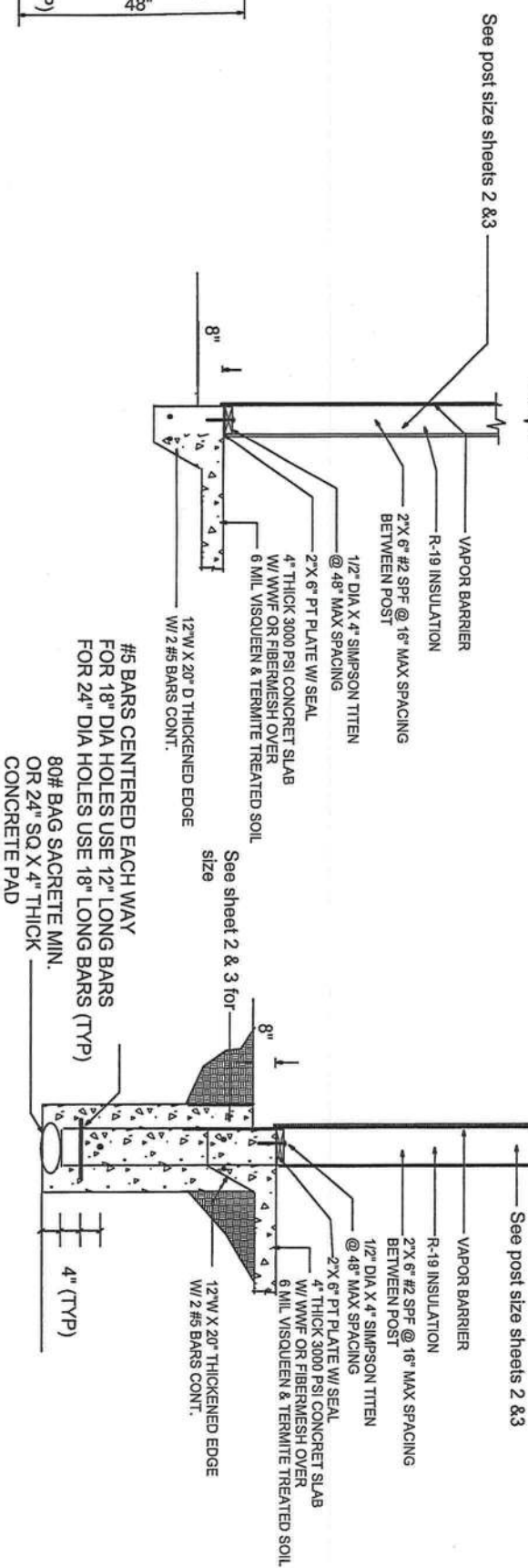
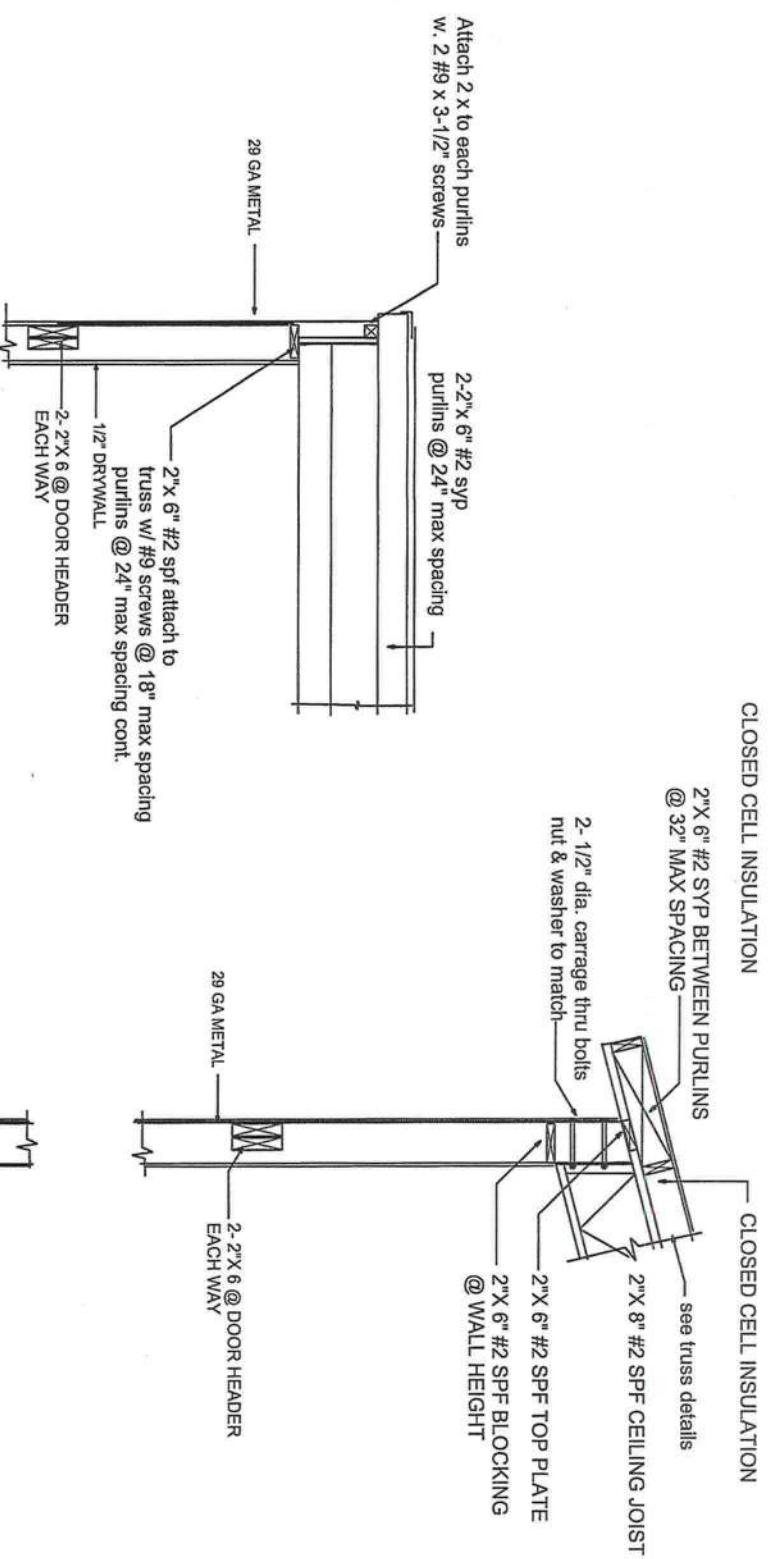
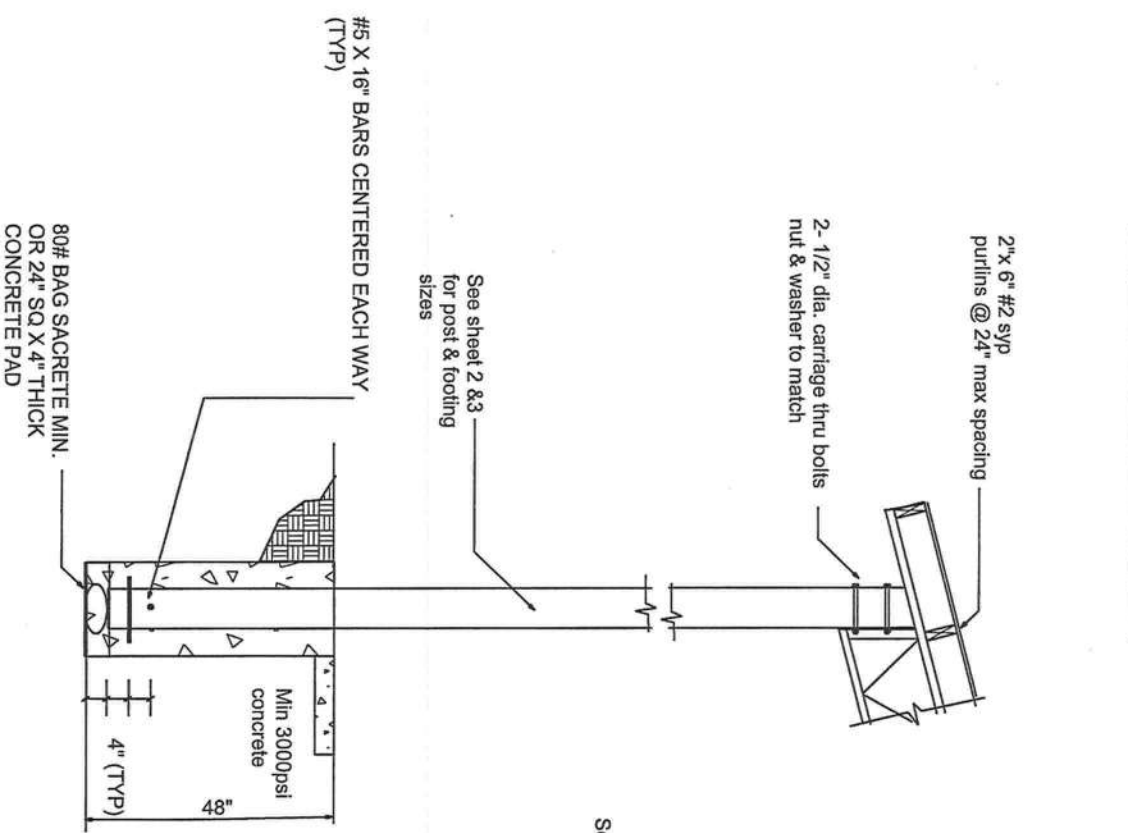
TRUSS TO POST DETAIL  
PLAN VIEW





## INTERIOR FOOTING

### SECTION 3

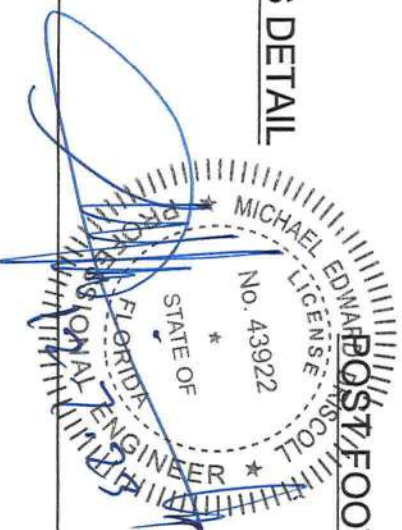


## POST FOOTING TO TRUSS DETAIL 4

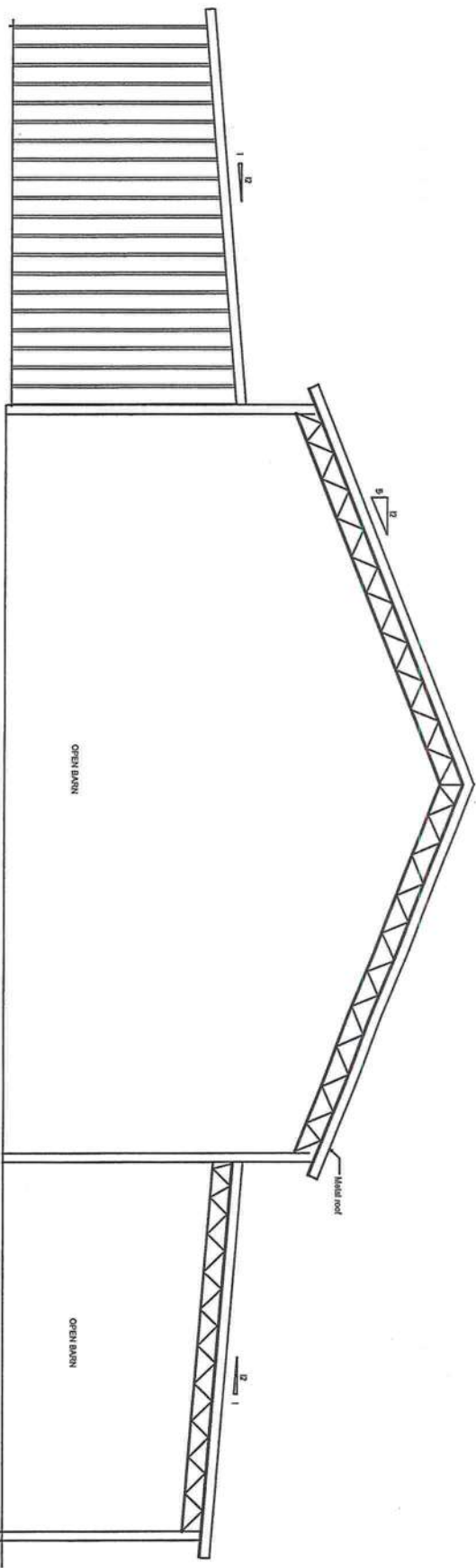
## POST FOOTING TO TRUSS DETAIL

### SECTION 2

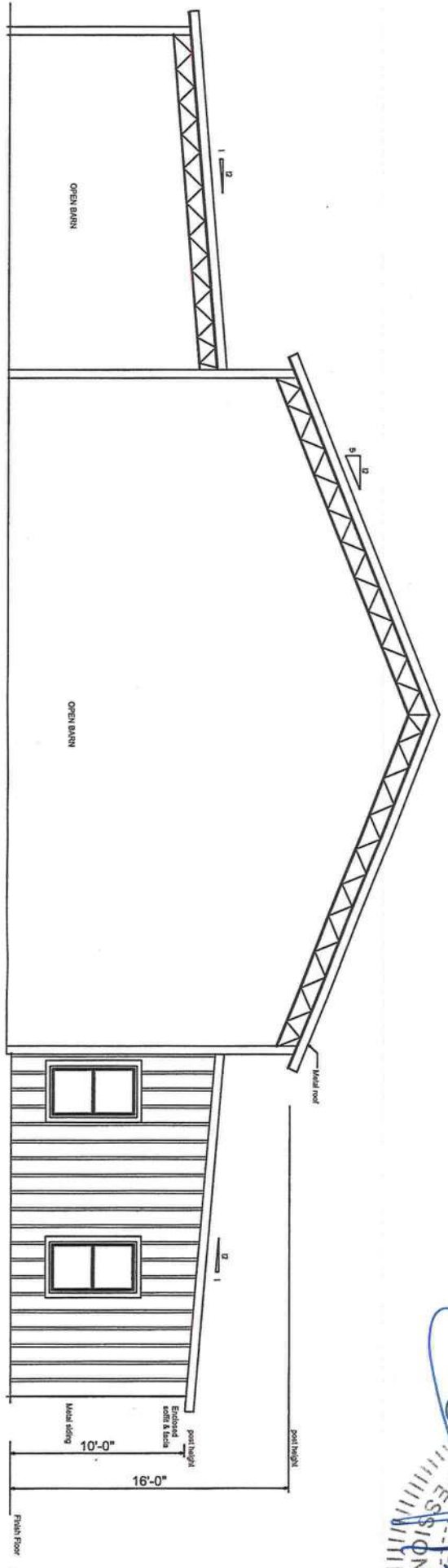
SECTION 1



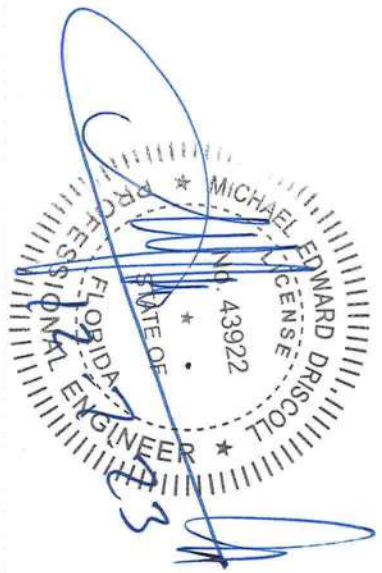




REAR ELEVATION

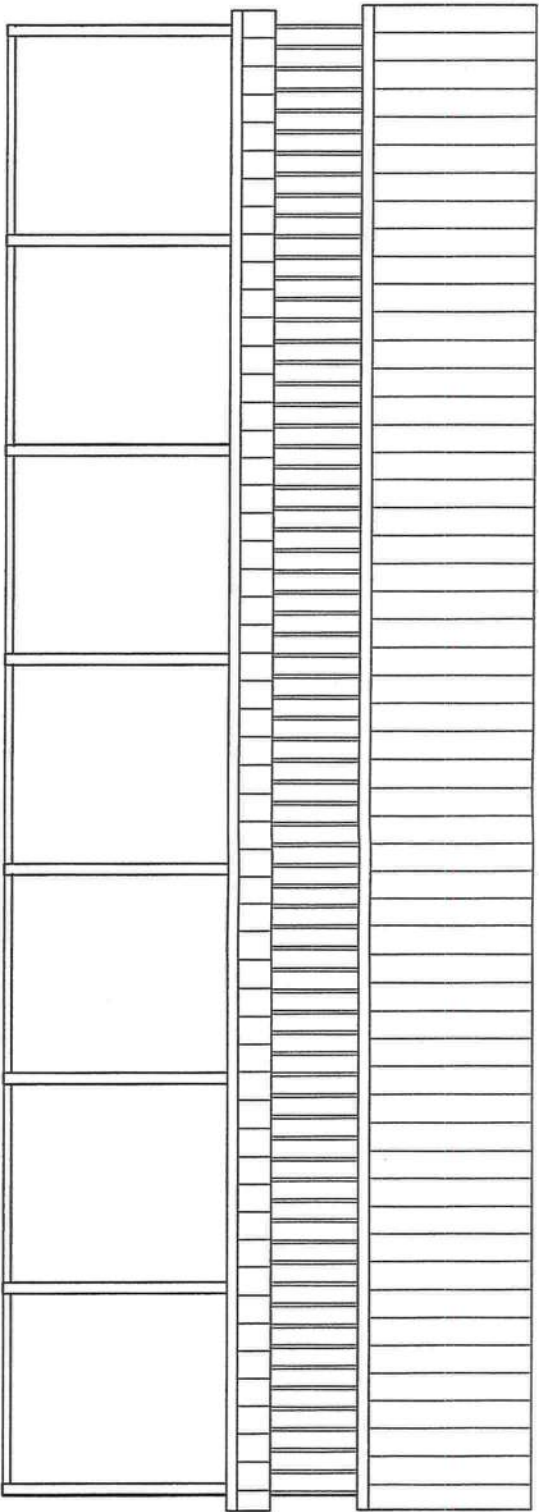


FRONT ELEVATION

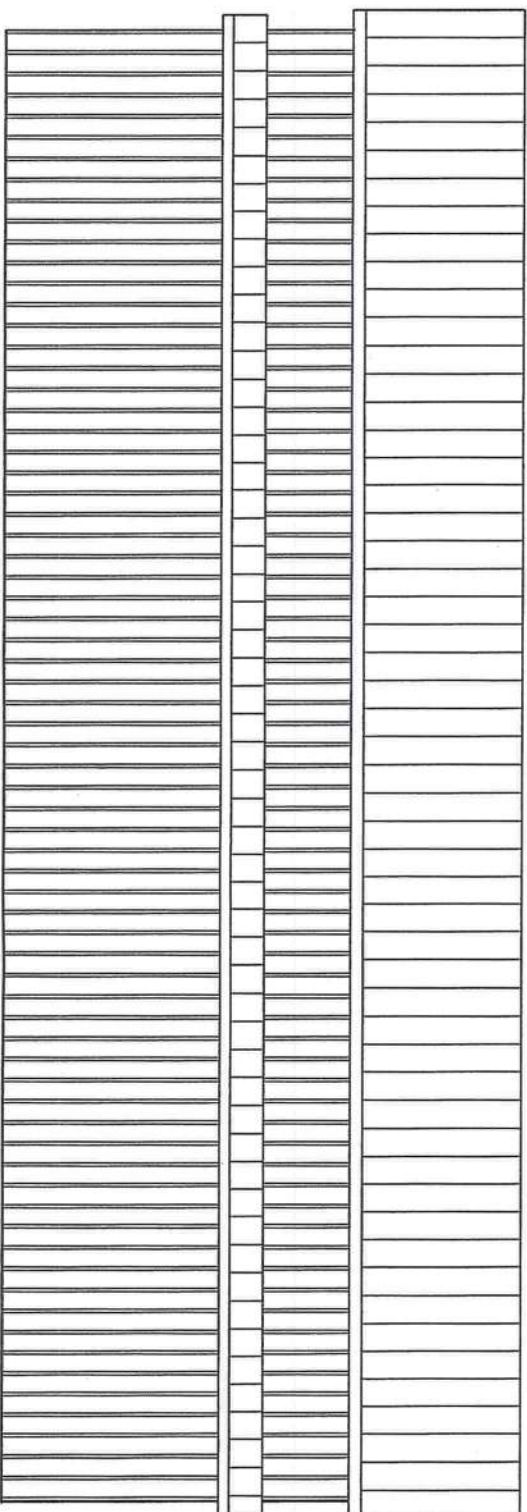


DRISCOLL ENGINEERING, INC.  
CONSULTING ENGINEERS  
PO BOX 367577 GAINESVILLE, FL 32606  
PH (352) 331-1513 CA 8690  
FX (352) 505-3366

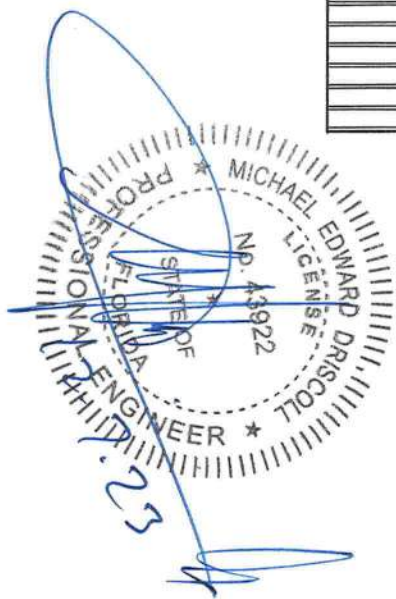
COPELAND  
134 SW SEDGEFIELD FARMS GLEN  
FT WHITE, FL. DB23-793



LEFT ELEVATION



RIGHT ELEVATION



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



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

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

SHEET:

9



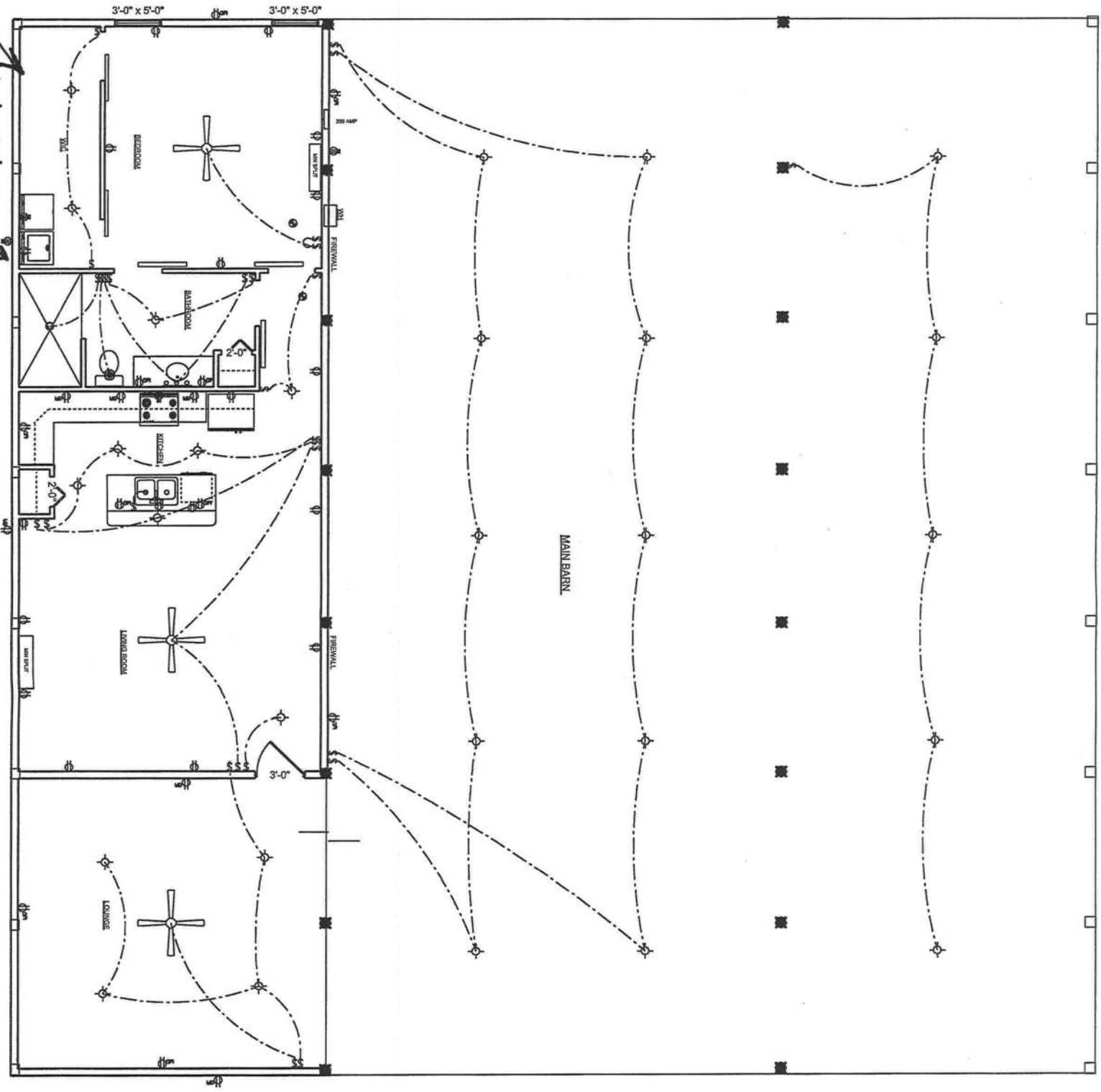
200 AMP  
Meter can/combo

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                  | 150 watt single pole switch     |
| 5                  | 220 OUTLET                      |
| 6                  | GFI outlet                      |
| 7                  | switched outlet                 |
| 8                  | split overhead light            |
| 9                  | recessed light                  |
| 10                 | split overhead fan to dim       |
| 11                 | wall mount light fixture        |
| 12                 | split overhead light            |
| 13                 | double fixed light              |
| 14                 | track bar light                 |
| 15                 | vanity bar light                |
| 16                 | fluorescent light               |
| ceiling fan light  |                                 |
| 17                 | smoked carbon monoxide detector |
| 18                 | phone outlet                    |
| 19                 | tv outlet                       |
| 20                 | THERMOSTAT                      |

UNDERGROUND POWER

11-16-23

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

SHEET:

E