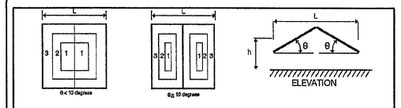

Wind Pressure Summary for C&C Roof & Wall based Upon Areas Ch 30 Pt 3
All wind pressures include a Load Factor (LF) of 0.6

Zone	Figure	Pos A ≤ 16 ft² psf	Neg A ≤ 16 ft² psf	Pos A = 32 ft² psf	Neg A = 32 ft² psf	Pos A > 64 ft² psf	Neg A > 64 ft² psf
1	30.5-2	16.99	-17.19	16.99	-17.19	16.99	-17.19
2	30.5-2	26.26	-26.46	26.26	-26.46	16.99	-17.19
3	30.5-2	33.98	-36.76	26.26	-26.46	16.99	-17.19

* A is effective wind area for C&C: Span Length * Effective Width
* Effective width need not be less than 1/3 of the span length
* Maximum and minimum values of pressure shown.
* + Pressures acting toward surface, - Pressures acting away from surface
* Per § 30.2.2 the Minimum Pressure for C&C is 9.60 psf [0.460 kPa] (Includes LF)

ULTIMATE & NOMINAL WIND SPEEDS

ULTIMATE	NOMINAL SUSTAINED
120	93
130	101
140	108
150	116

WIND EXPOSURE CATEGORY

B	C	D

BUILDING DIMENSIONS D-1

BARN WIDTH (FT)	INSIDE POST DIMENSION	OUTSIDE 6" X 6"POST DIMENSION	OUTSIDE 8" X 8" POST DIMENSION
40	39'-1"	40	40' 4"
36	35'-1"	36	36'-4"
30	29'-1"	30	30'-4"
24	23'-1"	24	24'-4"
20	19'-1"	20	20'-4"
38	37'-1"		38'-4"

BARN LENGTH (FT) D-2
84'
72'
60'
50'
48'
40'
36'
30'
24'

INSIDE DIMENSION
FOR ROUND POST SEE D-1

POST SIZE

6"X 6"	8"X 8"	10" X 10"
ROUND MIN. DIA.		

ROOF PITCH

3/12	4/12	5/12	6/12

POST HEIGHT

SIZE CIRCLED OR LESS (D-3)				OTHER
10'	12'	14'	16'	

CONCRETE INFORMATION

	CONCRETE SLAB
	NO CONCRETE SLAB
	4" THICK 3000 PSI CONCRETE SLAB W/ 6X6- 6/6 WWF OR FIBERMESH CONCRETE DESIGN LIVE LOAD 40 PSF
	6" THICK 3000 PSI CONCRETE SLAB W/ 6X6 4/4 WWF CONCRETE DESIGN LIVE LOAD 200 PSF
	8" THICK 3000 PSI CONCRETE SLAB W/ 2 MATS OF BARS TOP & BOTTOM EACH #4 BARS @ 12" C/C EACH WAY CONCRETE DESIGN LIVE LOAD 400 PSF
	THICKENED EDGE SLAB
	NO THICKENED EDGE SLAB
	12" W X 12" D W/ 2 #5 BAR CONT
	12" W X 20" D W/ 2 #5 BAR CONT
	RIBBON FOOTING
	NO RIBBON FOOTING
	12" W X 12" D W/ 2 #5 BAR CONT
	12" W X 20" D W/ 2 #5 BAR CONT

POST FOOTING SIZE

F-1	24" DIA. X 48" DEEP
F-1	30" DIA. X 60" DEEP

ALL POST REQUIRE CONCRETE FOOTINGS

POST SPACING D-4 (FT)

8	10	12	15

METAL ROOF

26 GA	29 GA
FL 42382.09-R0	

PROFESSIONAL SERVICES BY
DRISCOLL ENGINEERING,INC.
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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 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 contained 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 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 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 thereto.

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 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 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 serviceable portions of the building, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any claim, liability or cost (including reasonable attorney's fees and costs of defense) for injury or economic loss arising or allegedly arising out of the professional services provided under this Agreement, excepting only those damages, liabilities, or costs attributable to the sole negligence or willful misconduct of the Design Professional

OPEN POLE STORAGE STRUCTURE

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

ULTIMATE WIND SPEED: SEE TABLE THIS SHEET
NOMINAL WIND SPEED: SEE TABLE THIS SHEET
WIND EXPOSURE CATEGORY: SEE TABLE THIS SHEET
RISK CATEGORY I
INTERNAL PRESSURE COEFFICIENT Gcpi= +/- 0.0
DESIGN PRESSURE PER FBC CHAPTER 16, INCLUDING ASCE 7-22 LOAD CALCULATIONS
ROOF LIVE LOAD = 12.5 PSF
ROOF DEAD LOAD = 2.5 PSF
MIN SOIL BEARING 2000 PSF
MAX TRUSS BEARING LOAD EACH END 4200LB
NET TRUSS UPLIFT @ POST 2100LBS
TERMITE TREATMENT SHALL BE APPLIED IN ACCORD WITH
THE FLORIDA BUILDING CODE & LOCAL CODES

Wood framing and fasteners to meet NDS-2018 requirements.

Fastener requirements: (1) all nails are common galvanized; (2) all bolts are to be galvanized steel and include nuts and washers; (3) all other hardware (Simpson or equal) is to be installed according to manufacturer's specifications and recommendations; (4) nailing (size and number) shall satisfy Tables 2306.2.(1), 2306.3.(1), and 2306.3.(#) FBC unless otherwise indicated; (5) Fasteners exposed to the weather are to be treated for weather resistance and compatible with the type of pressure treated wood use (connectors, nails, bolts, nuts, & washers).

1. Wood Pole Concrete Footings
a. Minimum Ultimate Compressive Strength @ 28 days = 3,000 PSI
b. Bag concrete mix allowed for wood pole footings when mixed in accord with manufactures requirements for a minimum ultimate compressive strength of 3,000 PSI.
c. The concrete under each post should be hardened (cured) prior to post placement
2. Building Concrete Wall Footings & Slabs
a. Concrete work shall conform to "Building Code Requirements for Reinforced Concrete" (ACI-318) and "Specifications for Structural Concrete" (ACI-301), Latest Edition
b. Minimum Ultimate Compressive Strength @ 28 days = 3,000 PSI
c. All slabs on grade shall have construction or control joints not to exceed 10'-0" spacing, unless otherwise noted.
d. 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
3. Reinforcing Steel
a. 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 the same size and spacing as horizontal wall reinforcement. Cover for concrete reinforcing steel shall be in accordance with ACI-318, Paragraph 7.7
b. 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.

The Structural Design Work in This Set of Engineering Plans Is Subject to But Not Limited to The Following Exclusions:
1. Architectural Design Services
2. Civil Engineering and Site Plan Design Services
3. Electrical and Lighting Design Services
4. HVAC Design Services
5. Plumbing Design Services
6. Geotechnical Engineering Services
7. Life Safety Plan Design Services
8. Flood Resistant Design Per Asce24-14
9. Any and All Local Code Requirements and Comments Made by The Authority Having Jurisdiction with The Regard To The Plans And Specifications

These Exclusions Are All the Owner's Responsibility

OWNER /CONTRACTOR SHALL VERIFY ALL DIMENSIONS
OF THIS STRUCTURE BEFORE BEGINNING CONSTRUCTION

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Digitally signed by Michael E. Driscoll PE
Date: 2025.06.24 10:21:41 -04'00'

SHEET: 1 OF 4

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

DAVID LOWER
941 SW WAFFLE GLEN
FORT WHITE, FL DB25-189
6-23-25 20x30x12-6x6 boa

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Michael E Driscoll PE
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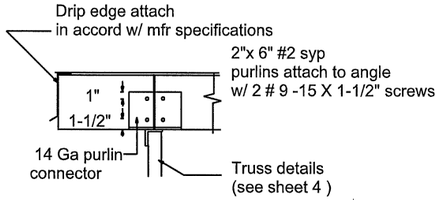
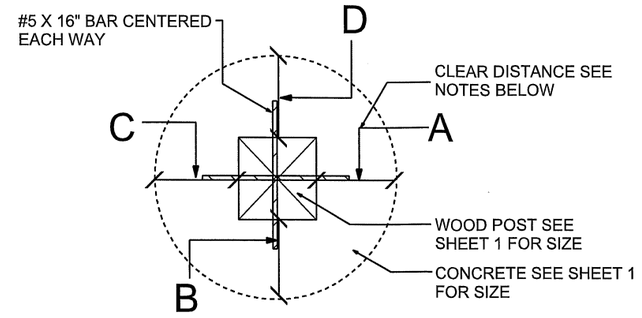


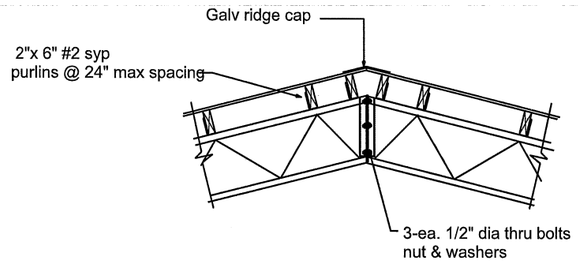
PURLIN CONNECTION DETAIL



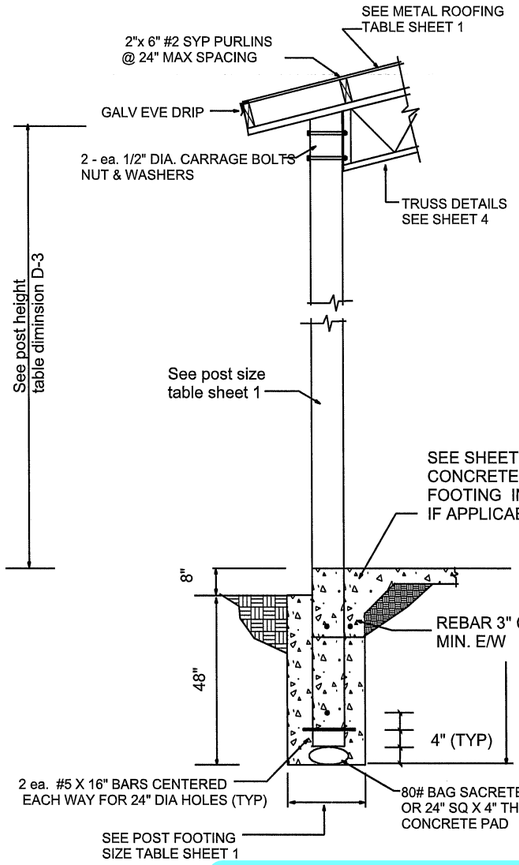
NOTES:

6"X 6" POST MIN CLEAR DISTANCE	A THRU D = 8"
8"X 8" POST MIN CLEAR DISTANCE	A THRU D= 7"
10"X 10" POST MIN CLEAR DISTANCE	A THRU D= 9"

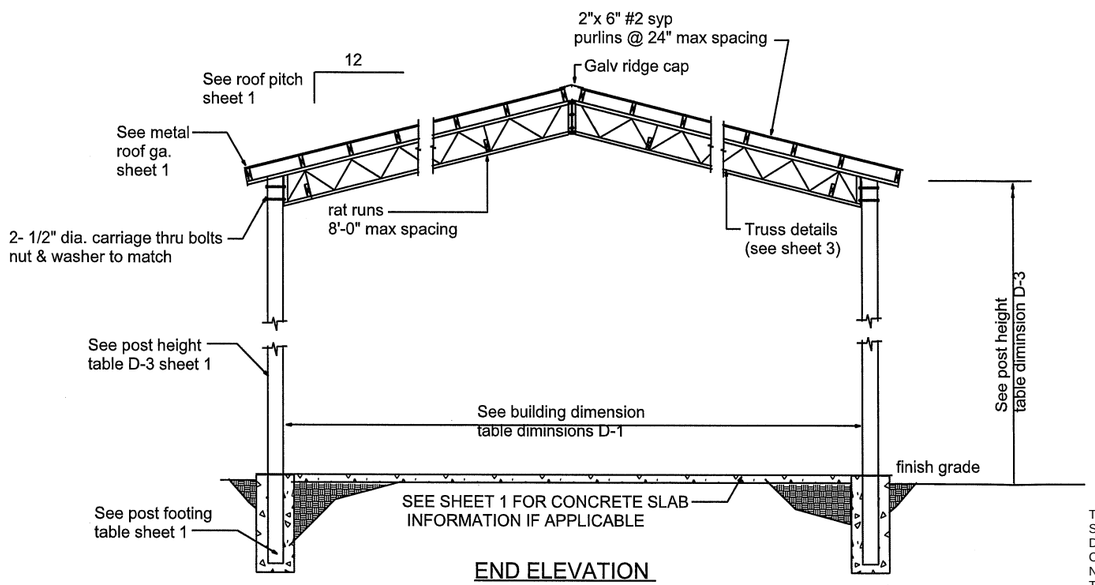
POST TO CONCRETE
PLAN VIEW



RIDGE CONNECTION DETAIL



POST FOOTING TO TRUSS DETAIL 1



END ELEVATION
NTS

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SHEET: 2 OF 4

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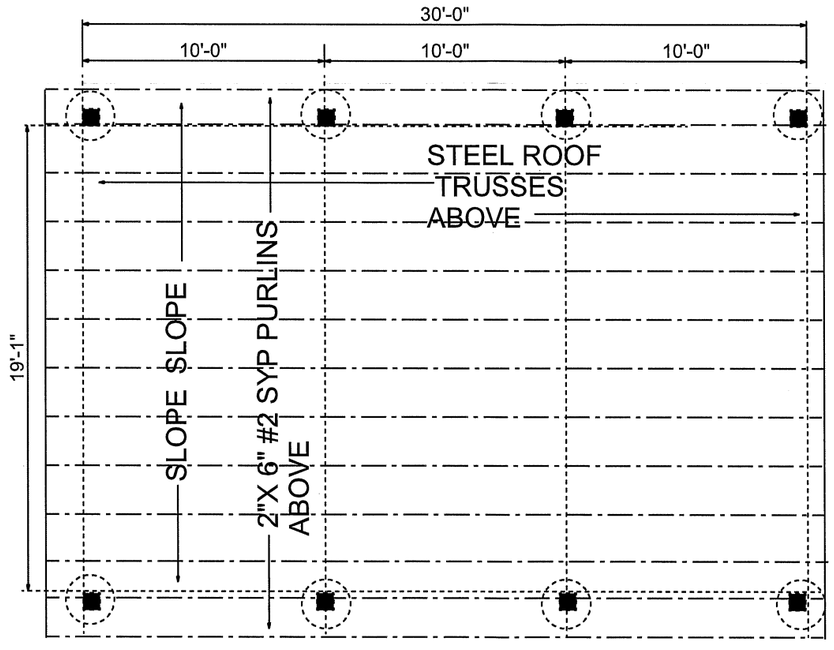

FOUNDATION & ROOF PLAN VIEW

3/16" = 1'-0"

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SHEET: 3 OF 4

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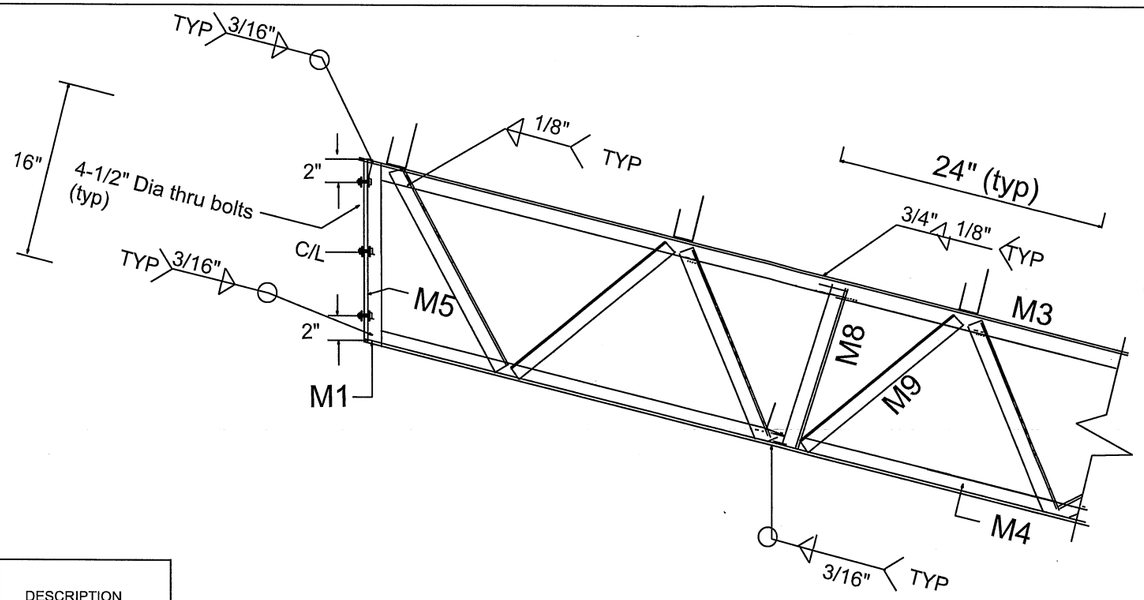
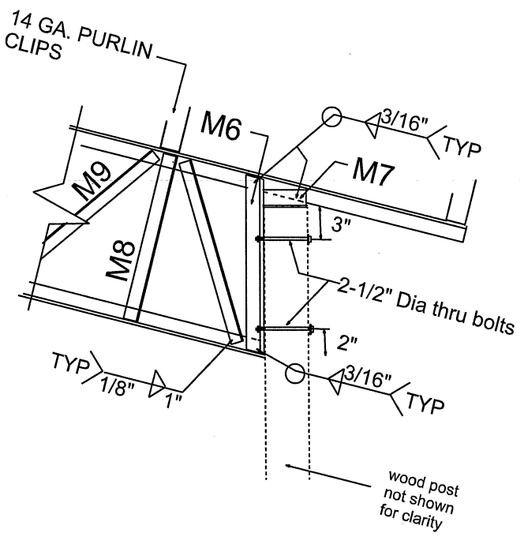


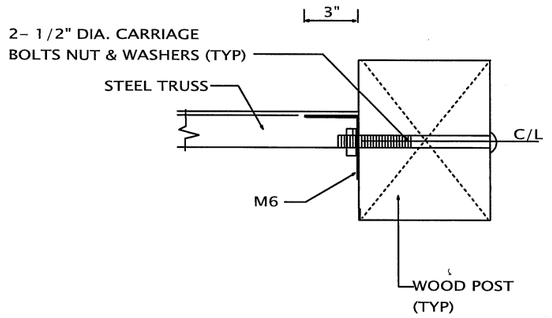


No.	ELEMENT	MATERIAL (50 KSI)	DESCRIPTION	
~~M1~~	~~Collar Tie~~	~~ASTM 572~~	~~L 2"x 2" x 1/8"~~	~~truss span over 30' use L 2"x 2" x 3/16"~~
~~M2~~	~~Collar Tie~~	~~ASTM 572~~	~~L 2"x 2" x 1/8"~~	~~truss span over 30' use L 2"x 2" x 3/16"~~
M3	Top Chord	ASTM 572	L 2"x 2" x 1/8"	truss span over 30' use L 2"x 2" x 3/16"
M4	Bottom Chord	ASTM 572	L 2"x 2" x 1/8"	truss span over 30' use L 2"x 2" x 3/16"
M5	Center vertical	ASTM 572	L 2" x 2" x 3/16"	
M6	End Vertical	ASTM 572	L 2"x 2" x 3/16"	truss span over 30' use L 3"x 2" x 3/8"
M7	Bearing angle	ASTM 572	L 2"x 2" x 3/16"	truss span over 30' use L 3"x 2" x 3/8"
M8	Inside vertical	ASTM 572	L1-1/2"x 1-1/2" x 3/16"	(M8) & rat runs 8'-0" max spacing
M9	Diagonal web	ASTM 572	L1-1/2"x 1-1/2" x 3/16"	

STEEL TRUSS CROSS SECTION

CONNECTOR SCHEDULE

2"x 6" #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



TRUSS TO POST DETAIL
PLAN VIEW

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 PRESSURE TREATED GROUND CONTACT (1500fb min)
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 DISCLAMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF POOR WORKMANSHIP, OR IMPROPER USE, AND ACCEPTS NO RESPONSIBILTY OR EXERCISES NO CONTROL WITH REGUARD TO FABRICATION, HANDLING,AND INSTALLATION OF TRUSSES.

TRUSS DETAILS

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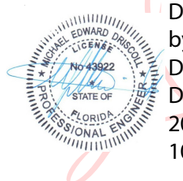

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11-20-24
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SHEET: 4 OF 4

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