

## Wind Load Analysis and Certification

### Jefferson Residence by Red Door Homes

2020 Florida Building Code section 1609 according to ASCE 7-16

Ultimate Design Wind Speed (Vult) = 130 MPH (3 second gust)

Nominal Design Wind Speed (Vasd)) = 101 MPH

Risk Category = II

Exposure Category = B, Enclosed Building

Applicable Internal Pressure Coefficient = .18

Design Wind Pressure for use of External Components (Components and Cladding)= +32.1psf, -43.3psf

Overhead Garage Door: +15.2psf, -16.9psf

### Roof Decking

7/16" or 5/8" OSB or 1/2", 5/8" or 3/4" CDX Decking; 48"x96" Sheets, Perpendicular to Roof Framing Members

8d common (.131" dia) or 8d ring-shank (.113" dia.) nails at 4" O.C. on Ends, 8" O.C. in Interior

Trusses or Rafters at 2' O.C. (horizontal distance), No Intermediate Blocking Required

Rafters: 2x6 SYP #2 up to 10' horizontal span, 2x8 SYP #2 up to 14' horizontal span

### Shear Wall Segments

7/16" OSB or 1/2" CDX plywood, 48" Wide Sheets - Sheathing Continuous from Top Plate down to Pressure Treated Sole Plate Bearing on Foundation.

8d common (.131" dia) nails at 3" O.C. on Edges and Ends, 8" O.C. in Interior

Transverse Shearwall = 40', Longitudinal Shearwall = 40'

2x4 SPF (No. 1&2) Studs at 16" O.C., up to 12'

or: 2x6 SPF (No. 1&2) Studs at 16" O.C., up to 17'

### See attached detail for stud and jack requirements for wall openings

Nail Together Double Top Plate 6" O.C. w/12-d Common Nails (SYP top plates)

Other Wall Segments - Same as Shear Walls

### Gabled End Wall Framing

Balloon Frame (see details) or see attached alternate details.

T-Block (with 2x4's) bottom chord of porch gable trusses at 4' O.C to 6' from gable end-truss

**Special Notes:** All headers and beams to be double 2x12 SP#2. **This structural and windload analysis is based on the attached truss layout. Any deviation from the attached layout invalidates this structural and windload analysis.**

### Footings and Foundations (Based on Truss Engineering)

20" deep x 14" wide monolithic with 2-#5's, Continuous, 3000 psi Concrete

Garage Mono: depth of garage mono footer shall be a min of 18" below the garage slab and any curb shall be a min of 6" wide and a maximum of 6" deep or 8" wide and 8" deep. Any curb deeper than this requires special engineering design.

or: 20" Wide x 10" Deep 3000 psi Concrete Strip Footing with 2-#5's, Continuous

8"x8"x16" Concrete Masonry Stemwall, Minimum 2 Courses, Maximum 4 Courses, Fully Grouted, except sections over 3 courses need only cells with rebar to be grouted. 1-#5 Vertical Dowel at Corners **and 6'-0" O.C.** (10" hook top and bottom) (min 25" lap all #5 rebar) Max distance between top of garage floor and top of stemwall = 18" **(1) #5 continuous top course. All 4" slabs requires 6x6 WWM**

Interior footers: 16" wide by 10" deep (including 4" slab) with 2-#5's, Continuous,

**Note: It is the contractors responsibility to install all necessary interior footers per truss manufacturers requirements based on the attached truss layouts.**

Porch Footers: 16" deep x 14" wide monolithic with 2-#5's, Continuous or see above or: 8" wide by 8" deep bell footing with 1-#5, Continuous with minimum of 30"x30" x 15" pad under each post ( w/ 3- #5 each way)

**Note: footer design based on continuous bearing. Footers for any concentrated loads greater than 10,000 lbs must be reviewed with windload engineer. Movement – The information presented in this document is not calculated or intended for the use or purpose of mitigating or addressing unsuitable soils or subsurface conditions in any way or manner, whatsoever.**

**Hurricane-Resistance Hardware** (Based on Truss Engineering)

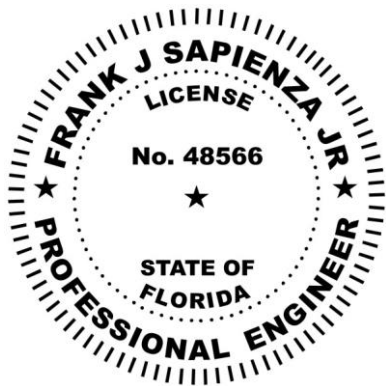
Truss Clips/Headers/Girders/Posts/Beams /Top and Bottom of Wall Unit - See Table

Anchor Bolts- 1/2"Dia. x 10" J Bolts (with min 8" embedment) at 48"O.C. (First bolt at 9" from Corner, then 48" O.C.) and at each end of Each Opening (2" round or square washers).

I hereby certify that the accompanying Wind Load Analysis for the **Jefferson Residence**, demonstrates compliance with the 2020 FBC section 1609 according to ASCE 7-16, to the best of my knowledge.

Frank J. Sapienza Jr.  
License Professional Engineer  
Florida License Number 48566

This item has been digitally signed and sealed by FRANK J SAPIENZA JR PE using Digital Signature.  
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Frank J  
Sapienza Jr

Digitally signed by  
Frank J Sapienza Jr  
Date: 2022.10.04  
22:02:06 -04'00'

| HOLD-DOWN TABLE                                                                                                                                                                                                            |                                                                                  |                  |                          |                                               |                             |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------|--------------------------|-----------------------------------------------|-----------------------------|------------|
| Wood Sections                                                                                                                                                                                                              |                                                                                  | Uplift Force Lbs | Top Connector Simpson ** | Rating Lbs                                    | Bottom Connector Simpson ** | Rating Lbs |
| HEADERS                                                                                                                                                                                                                    |                                                                                  |                  |                          |                                               |                             |            |
|                                                                                                                                                                                                                            |                                                                                  | up to 455 lbs    | LSTA9                    | 775                                           | H3                          | 455        |
|                                                                                                                                                                                                                            |                                                                                  | up to 910 lbs    | LSTA12                   | 970                                           | 2-H3                        | 910        |
|                                                                                                                                                                                                                            |                                                                                  | up to 1235 lbs   | LSTA18                   | 1235                                          | LTT19                       | 1350       |
|                                                                                                                                                                                                                            |                                                                                  | up to 1750 lbs   | 2-LSTA12                 | 1940                                          | LTT20                       | 1750       |
|                                                                                                                                                                                                                            |                                                                                  | up to 2470 lbs   | 2-LSTA18                 | 2470                                          | HD2A-2.5                    | 2565       |
|                                                                                                                                                                                                                            |                                                                                  | up to 2775 lbs   | 3-LSTA18                 | 3705                                          | HD2A-3.5                    | 2775       |
|                                                                                                                                                                                                                            |                                                                                  | up to 3705 lbs   | 3-LSTA18                 | 3705                                          | HD5A-3                      | 3705       |
| To determine uplift force on header at each end, total the uplifts for each truss resting on the header and divide by 2 (assumes uniform load)      Note: must use proper bolt anchors sufficient to support required load |                                                                                  |                  |                          |                                               |                             |            |
| Trusses/Girders - Uplift                                                                                                                                                                                                   |                                                                                  |                  |                          |                                               |                             |            |
|                                                                                                                                                                                                                            | up to 600 lbs - use H2.5A top, no special device required at bottom              |                  |                          |                                               |                             |            |
|                                                                                                                                                                                                                            | over 600 lbs but under 990 lbs use H10 top, no special device required at bottom |                  |                          |                                               |                             |            |
|                                                                                                                                                                                                                            | up to 1215 lbs use TS22 or equivalent at top and LTT19 at bottom                 |                  |                          |                                               |                             |            |
|                                                                                                                                                                                                                            | up to 1750 lbs use 2-TS22 or equivalent at top and LTT20 at bottom               |                  |                          |                                               |                             |            |
|                                                                                                                                                                                                                            | up to 2430 lbs use 2-TS22 or equivalent at top and HD2A bottom                   |                  |                          |                                               |                             |            |
|                                                                                                                                                                                                                            | up to 3645 lbs use 3-TS22 or equivalent at top and HD5A bottom                   |                  |                          |                                               |                             |            |
|                                                                                                                                                                                                                            | Must Use proper bolt anchors                                                     |                  |                          |                                               |                             |            |
| Note: it is the contractors responsibility to provide a continuous load path from truss/rafter/ridge beam to foundation                                                                                                    |                                                                                  |                  |                          |                                               |                             |            |
| Strap rafters to truss or at each end with min uplift resistance of 450 lbs each end                                                                                                                                       |                                                                                  |                  |                          |                                               |                             |            |
| Strap ridge beam at each end with min uplift resistance of 1800 lbs                                                                                                                                                        |                                                                                  |                  |                          |                                               |                             |            |
| Note: Four (4) 12d comm toenails (2 on each side) required per truss/rafter per bearing point into plate to resist both lateral loads (wall to truss) and transverse loads (max plate height =12', not including gable)    |                                                                                  |                  |                          |                                               |                             |            |
| Horizontal Resistance (from truss loads) - Note: these devices are in addition to required toe-nails                                                                                                                       |                                                                                  |                  |                          |                                               |                             |            |
|                                                                                                                                                                                                                            | up to 110 lbs - use H2.5A                                                        |                  |                          | Note: hardware to be used must satisfy both   |                             |            |
|                                                                                                                                                                                                                            | up to 525 lbs use H10                                                            |                  |                          | uplift and horizontal resistance, combination |                             |            |
|                                                                                                                                                                                                                            | up to 1090 lbs use H10 plus A23                                                  |                  |                          | of devices is acceptable                      |                             |            |
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Number of Jack and Stud Requirements per Opening Width  
 2x4 or 2x6 SPF #1&2 Construction – max Wall Height=12'  
 (based on 16" O.C. Stud Spacing)

| Header                      |           |           |
|-----------------------------|-----------|-----------|
| Jacks                       |           |           |
| Opening Width               | #of Jacks | #of Studs |
| up to 4'                    | 1         | 1         |
| up to 6'                    | 2         | 1         |
| up to 9'                    | 2         | 2         |
| up to 12'                   | 3         | 2         |
| up to 14'                   | 3         | 3         |
| up to 18'                   | 4         | 3         |
| over 18' must be engineered |           |           |
| Opening Width               |           |           |
| Studs                       |           |           |

Note – Based on uniform loads. Heavy concentrated loads require engineering review

## Acceptable Framing Method for Balloon Framed Gable End-Wall with trusses

Balloon Frame with 2x4 SPF No.1&2 @ 16" O.C. with the Following Conditions:

Up to 12' - Block at 8'

Over 12' but Under 14' - 2x4 SYP #2 at 16" O.C. and Block at 4',8'&12'

Over 14' but Under 17' - Double 2x4 SYP #2 at 16" O.C. and block at 4',8',12'&16'

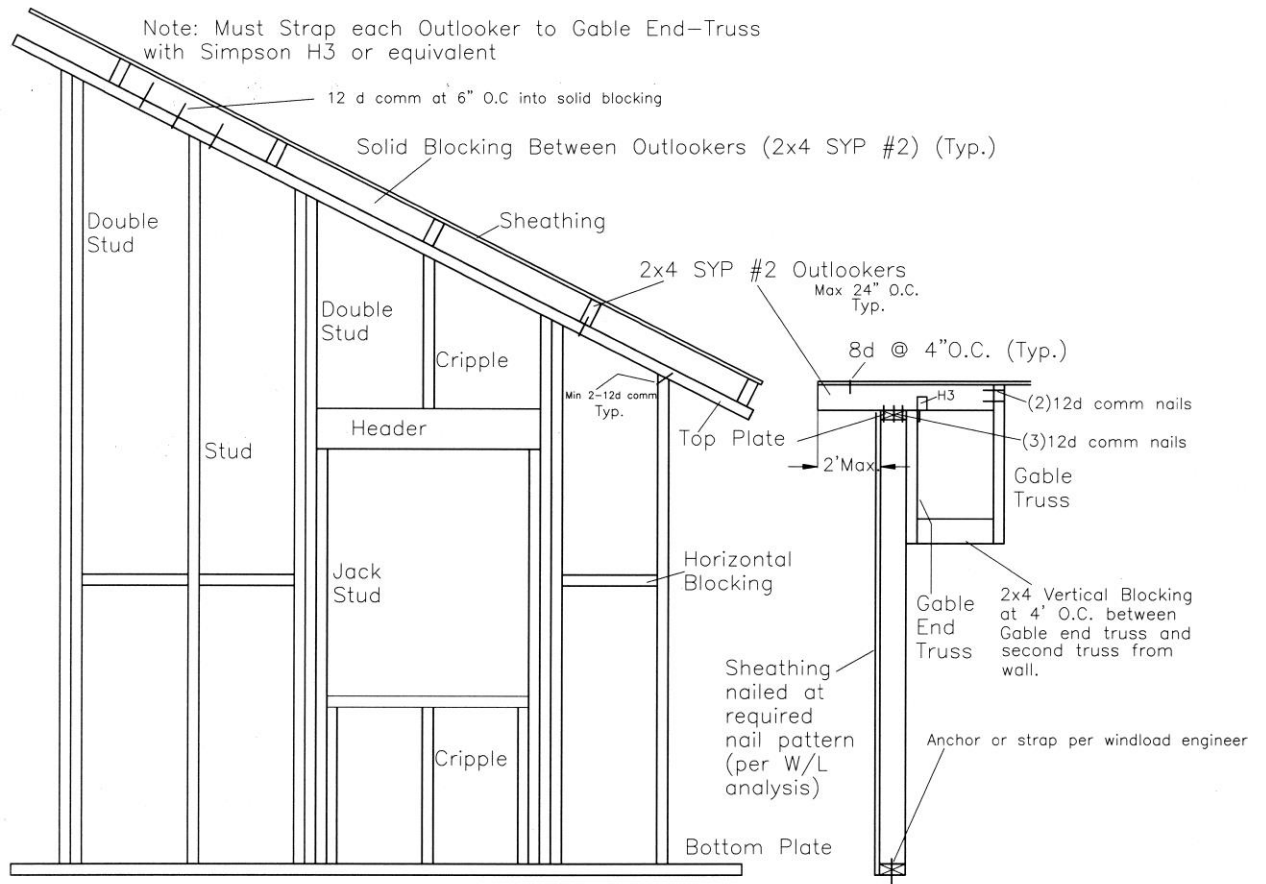
Over 17' but Under 20' - Triple 2x4 SYP #2 at 16" O.C. and block at 4',8',12'&16'

Over 20' but Under 23' - Quadruple 2x4 SYP #2 at 16" O.C. and block at 4',8',12',16'&20'

Over 23' - Must be Engineered

In all cases a minimum of a double full length stud is required at each side of openings such as doors and windows

Blocking must be parallel to top and bottom plates with a minimum of 2-12d comm nails



F. Sapienza, P.E.

## Acceptable Framing Method for Balloon Framed Gable End-Wall

Balloon Frame with 2x6 SYP No.2 @ 16" O.C. with the Following Conditions:

Up to 18' – Block at 8' and 16'

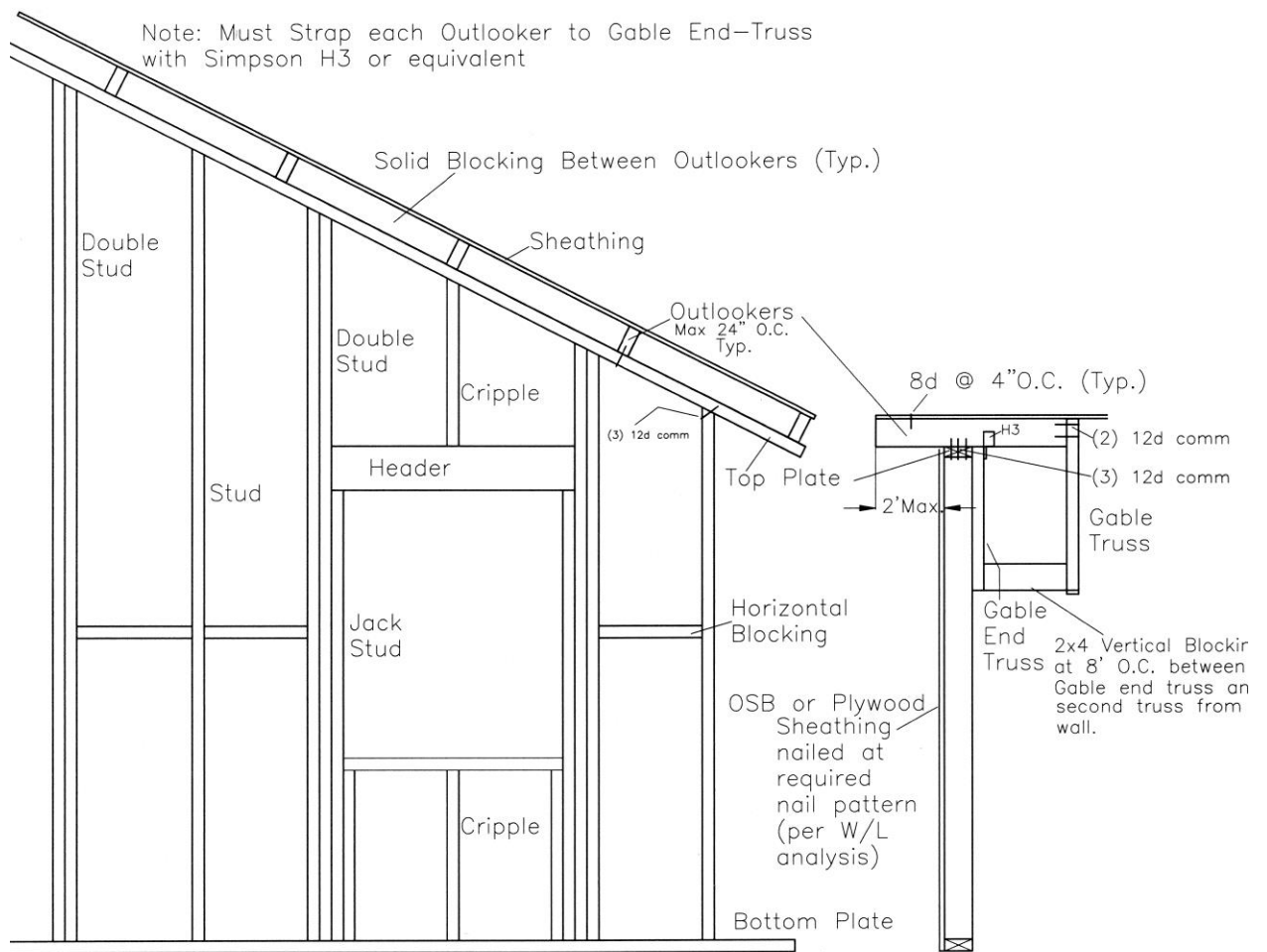
Over 18' but Under 21' – Double stud and block at 8' & 16'

Over 21' but Under 24' – Triple SYP #2 and block at 4', 8', 12' & 16'

Over 24' – Must be Engineered

In all cases a minimum of a double full length stud is required at each side of openings such as doors and windows

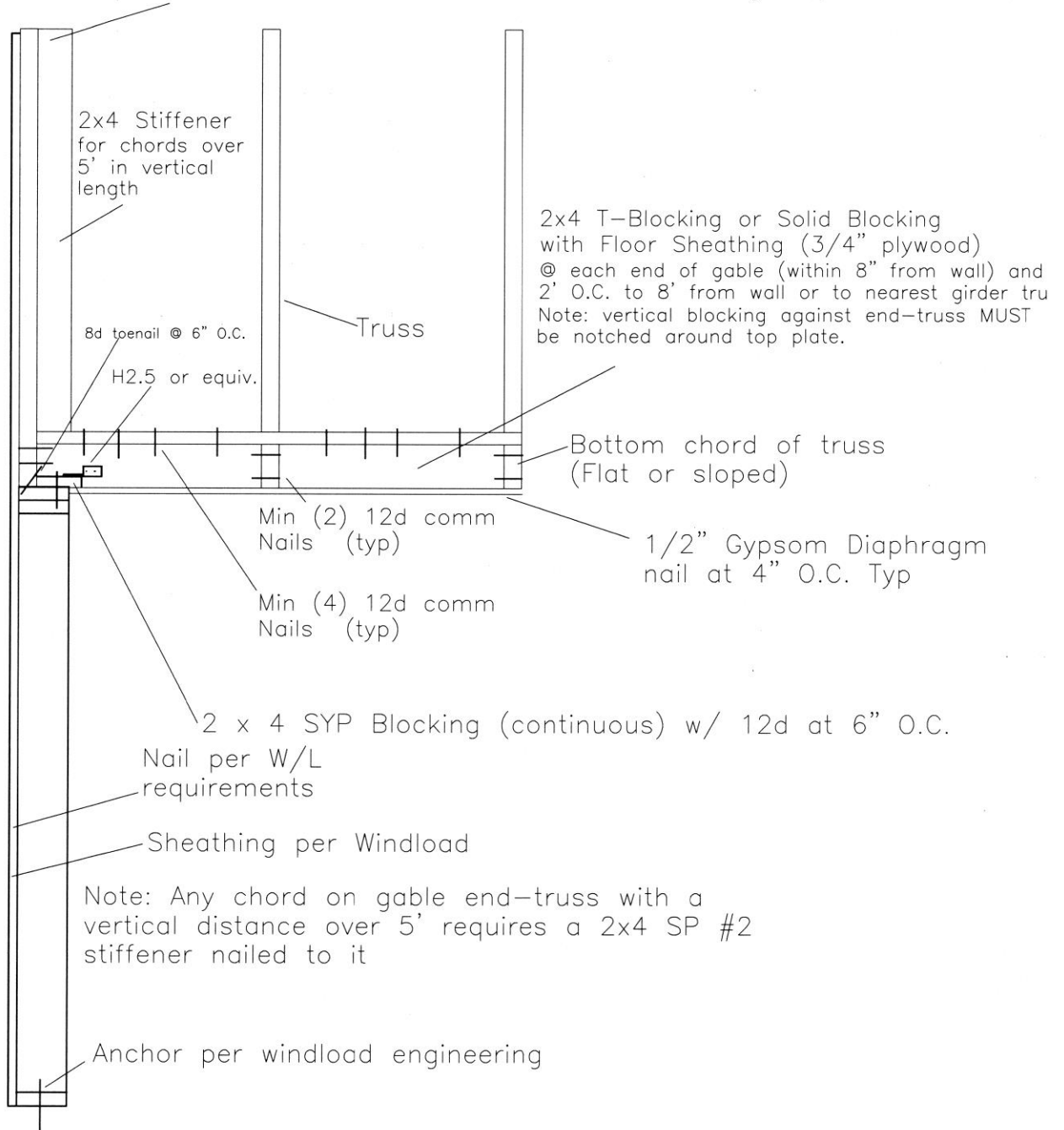
Blocking must be parallel to top and bottom plates with a minimum of 3-12d comm nails

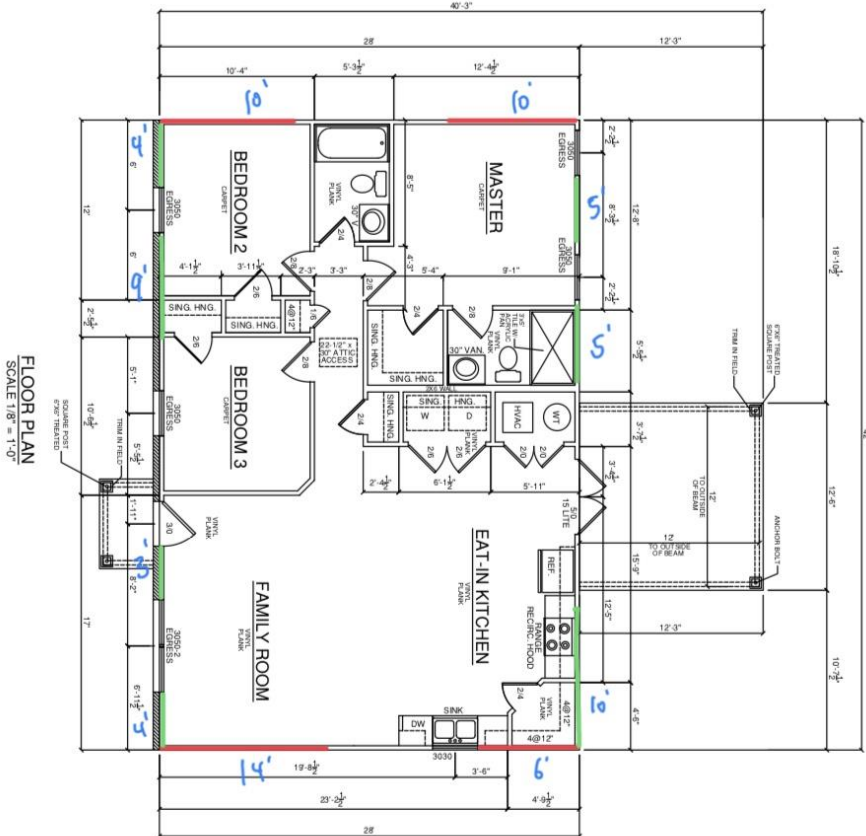


F. Sapienza, P.E.

# Gable Endwall Framing with Gable End-Truss

See Balloon Framed Detail for Outlooker framing requirements





Σ Trans. S.W. = 40'  
Σ Long. S.W. = 40'

JEFFERSON

GENERAL NOTES

1. MAIN FLOOR PLATE HEIGHT TO BE 8'-0"
2. OPTIONAL BONUS PLATE HEIGHT TO BE 8'-0" UNLESS NOTED OTHERWISE.
3. INTERIOR & EXTERIOR WALLS TO BE 8" CMU UNLESS NOTED OTHERWISE.
4. ALL ANGLES TO BE DRAWN AT 45° OR 90° UNLESS NOTED OTHERWISE.
5. ALL DOOR & WINDOW SIZES TO BE 6'-0" UNLESS NOTED OTHERWISE.
6. SIZE, LOCATION AND MATERIALS OF BEAMS TO BE DETERMINED BY STRUCTURAL ENGINEER.
7. FLOOR SIZE, MATERIAL & LOCATIONS TO BE VERIFIED AND DETERMINED BY BUILDER, ENGINEER OR A LICENSED ENGINEER.
8. ROOF VENTILATION TO BE DETERMINED BY STRUCTURAL ENGINEER OR A LICENSED ENGINEER.
9. ALL MECHANICAL SYSTEMS DESIGNED, SPECIFIED, INSTALLED AND MAINTAINED BY CONTRACTOR AND OR LICENSED ENGINEER, MECHANICAL ENGINEER, PLUMBING ENGINEER, AND COORDINATING WITH ALL LOCAL, STATE AND NATIONAL CODES AND NATIONAL STANDARDS.
10. BUILDERS TO TAKE PRECEDENCE OVER DRAWINGS.
11. BUILDERS TO VERIFY ALL DIMENSIONS.
12. BUILDERS TO VERIFY ALL DIMENSIONS.

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SQUARE FOOTAGE CHART

|                            |      |
|----------------------------|------|
| MAIN FLOOR AREA TO FINISH: | 1179 |
| FRONT PORCH AREA:          | 24   |
| REAR PORCH AREA:           | 144  |
| TOTAL UNDER BEAM AREA:     | 1347 |

SUBDIVISION NAME:

XXXXXXXXXX

CITY:

XXXXXXXXXX

PHASE:

XXXXXXXXXX

BLOCK:

XXXXXXXXXX

LOT:

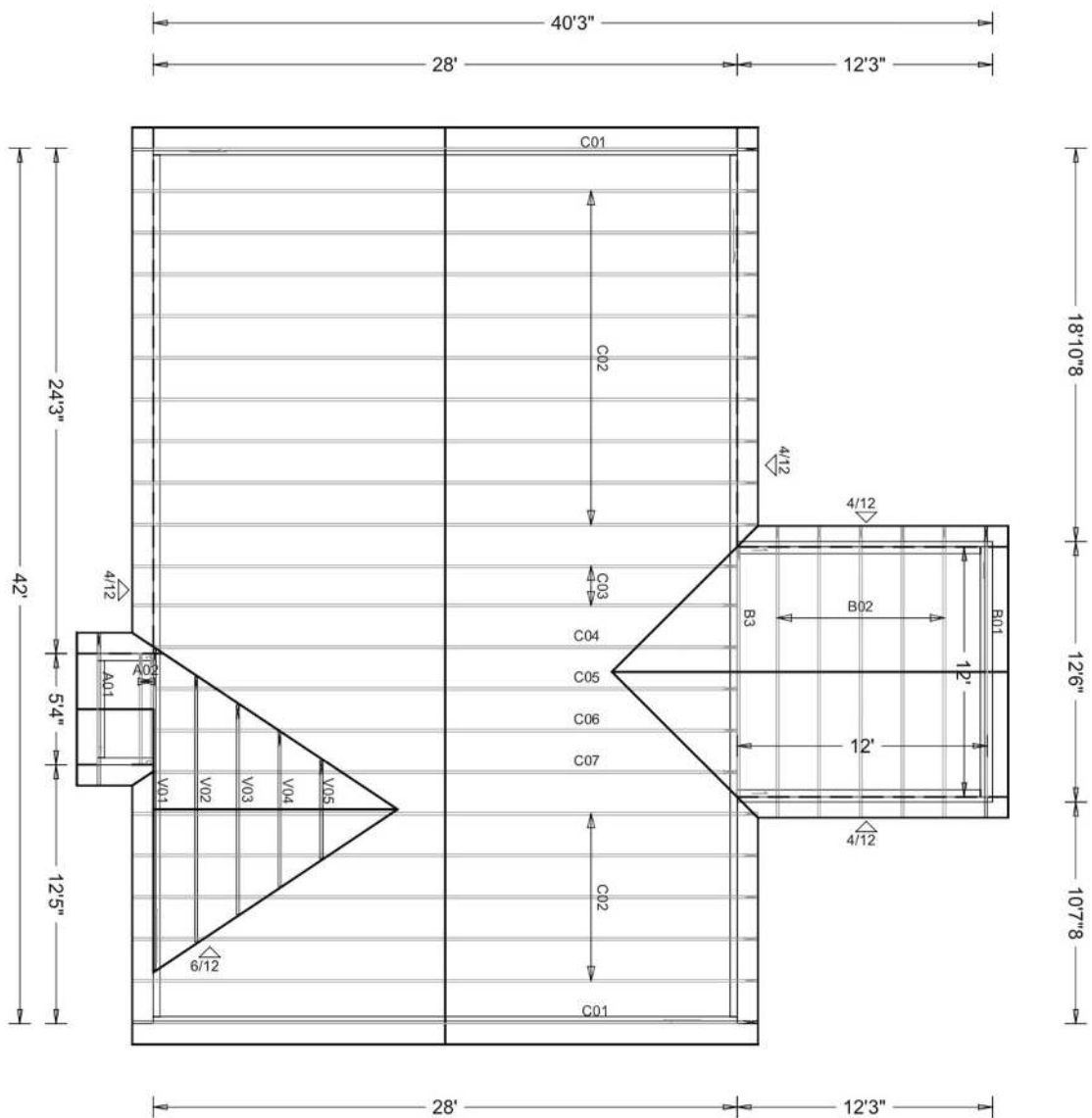
XXXXXXXXXX

DRAFTING DATES:

PRELIMINARY: 05/11/2022 PAM  
FINAL:

Floor Plan

ASPEN  
"Brick"



W.B. Howland Truss Co.  
610 11th St. SW  
Live Oak, FL 32064  
(386) 362-1235  
(386) 362-7124 (Fax)  
howlandtruss@gmail.com

ROOF PITCH: 4/12  
OVERHANG: 1'  
CEILING: 8'  
EXT. WALLS: 4"  
LOADING: 40psf  
WIND LOAD: 130mph  
EXPOSURE: B  
DATE: 10/3/22

|                |                                                                                                                                         |                                              |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| JOB #: 22-8026 | Job Name: Jefferson (Aspen "Brick")<br>Customer: Red Door Homes<br>Designer: Kelly Caudill<br>ADDRESS:<br>SALESMAN: RL<br>: <Not Found> | JOB NO:<br>22-8026<br><br>PAGE NO:<br>1 OF 1 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|